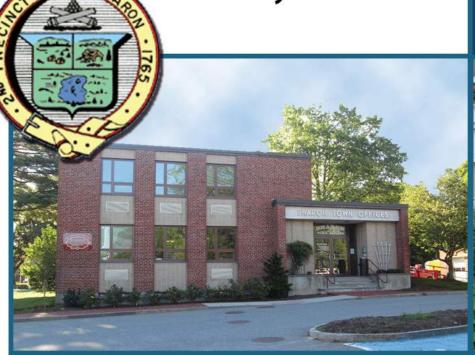
Town Hall Accessibility & Building Renovation Study





Sharon, Massachusetts December 2, 2015

KAESTLE BOOS associates, inc

ARCHITECTURE

LANDSCAPE ARCHITECTURE

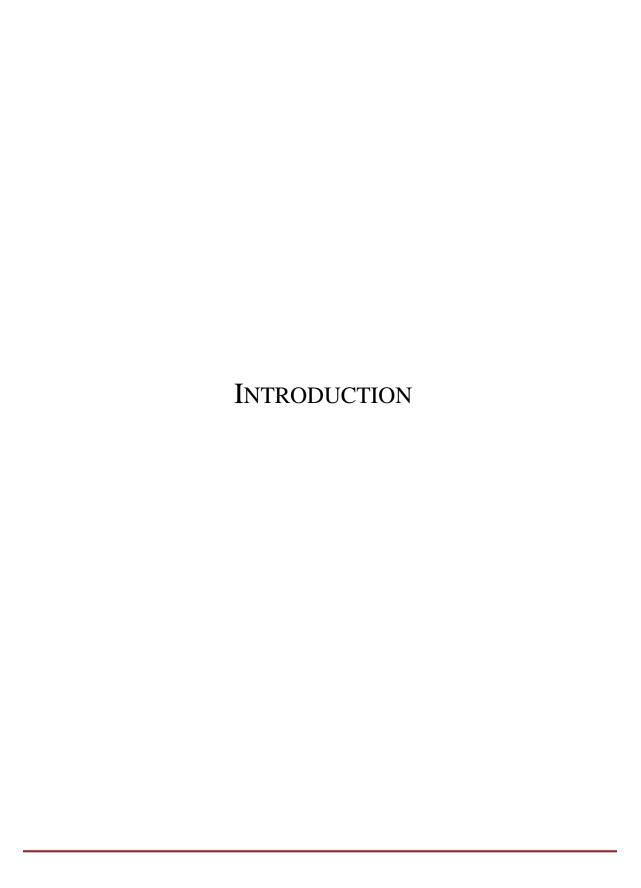
INTERIOR DESIGN

STRUCTURAL ENGINEERING

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Kaestle Boos Associates was retained by the Town primarily to determine the scope and cost of making the current facility Handicap Accessible. Option 1 was developed to address—this goal. It deals only with making the current facility accessible; it does not include any improvements to the facility not directly relating to resolving this issue. The cost of this Option has been calculated at \$2,730,000. As part of the study, we were also asked to develop conceptual approaches to meeting the other needs of the Town Hall facility on this site for the foreseeable future, including space, systems and environmental improvements.

In order to develop said options it was first necessary to develop a determination of the space required based on current services housed in the building and their predicted growth in terms of personnel, work areas, storage and meeting space. Our staff met with all department heads and developed a Space Needs Program based on these interviews and standard planning guidelines.

It was determined that the total of 7,780 net square feet was required to meet current needs with some anticipated growth. This was calculated by using a net to growth ratio of 150% that translates into a building of approximately 11,670 gross square feet. The existing facility has an area of 9,457 square feet on its three levels.

The Study Team developed four additional Options for meeting these goals including renovation and additions to the current facility, a new facility and a new facility combined with a partial renovation of the adjacent Fire Station.

Working Study Group

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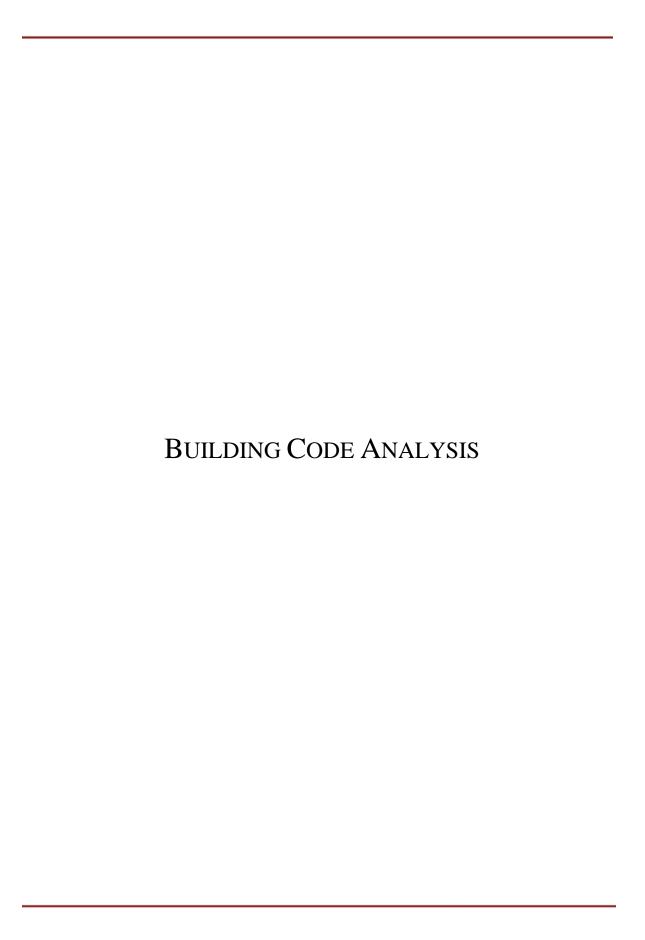
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APPLICABILITY

This analysis reviews the existing Sharon Town Hall in Sharon, MA, with regard to the Massachusetts State Building Codes ("Code") for new construction. The 8th Edition of the State Building Code consists, in part, of the 2009 International Building Code (IBC) and the 2009 International Existing Building Code (IEBC) with Massachusetts Amendments to these codes.

Codes used in this analysis are:

International Building Code (IBC, 2009)

International Existing Building Code (IEBC, 2009)

International Energy Conservation Code (IECC, 2012)

Massachusetts State Building Code Amendments (780 CMR 8th Edition)

Architectural Access Board Rules and Regulations (AAB, 521 CMR, 2006)

Uniform State Plumbing Code (248 CMR)

Code compliance with regard to mechanical systems, including electrical, plumbing, and fire protection systems, are not reviewed as part of this study as these are to be assumed to be replaced during any renovation project. Sitework is reviewed in a separate section of this study.

Upgrades and corrections to existing structures undergoing renovations are limited to specific items under the IEBC. During renovations, not all existing safety issues and non-compliant conditions are required to be corrected; typically only items within each renovated area are required to be corrected. However, non-compliant conditions at stairs and egress elements, fire rating separations, accessibility, and fire protection (sprinklers) are required to be corrected or provided anew as required by the IBC. Because this building was constructed almost twenty years ago, existing conditions which may be allowed to remain under the requirements of the IEBC may also be in conflict with current life safety codes and standards. Over time, since the original construction of these buildings, life safety standards have been improved in reaction to tragic events. In order to evaluate life safety conditions in accordance with the most current intent of these codes, the current IBC and Fire Safety codes and regulations are used as a basis for judging compliance.

Correcting existing conditions to comply with current Accessibility and Fire Protection requirements is required when the value of the work exceeds the cost or scope triggers stated in the AAB and the Fire Code.

Accessibility in public buildings is regulated by 521 CMR, which is enforced by the Massachusetts Architectural Access Board (MA AAB) and the Building Inspector of the municipality. 521 CMR, as issued in 2006, is used for this review. MA AAB 5.1 <u>Definitions</u> states:

"Public Buildings: A building privately or publicly financed that is open to and used by the public",

MA AAB 11.1 <u>Commercial Buildings</u> states:

"The design of commercial *buildings* shall comply with 521 CMR, except as specified or modified in 521 CMR 11.00. Commercial *buildings* are *public buildings* ... as well as city and town ... *facilities*."



The Town Hall is considered a public, commercial building and so is required to be accessible in accordance with 521 CMR.

Currently, the AAB regulates only areas and conditions accessed by the "public"; areas occupied solely by staff are not included in the regulation. Staff areas are included in the ADA Accessibility Guidelines as part of federal law, but these are not directly enforceable as part of the Building Code. However, in an effort to unify compliance requirements with the recently adopted IBC as the State Building Code, the AAB will be revising the regulation to include staff areas as well as public areas. In anticipation of the release of the revised AAB regulations, all discussions below regarding accessibility will include compliance of staff areas.

Applicability of the AAB Regulations for renovations of existing buildings is based on the value of the renovations as a percentage of the current assessed value of the building (100% valuation). According to AAB 3.3, partial compliance is required when the value of the renovations exceeds \$100,000 and full compliance of the entire facility is required when the value of the renovations exceeds 30% of the assessed value of the building. An exception to this rule is for maintenance work on MEP systems, sprinkler systems, roofs, replacement windows, masonry repair, site utilities, landscaping, and septic system which in aggregate is less than \$500,000.

As stated in AAB 3.3 (paraphrased):

"3.3 EXISTING BUILDINGS

All additions to, reconstruction, remodeling, and alterations or repairs of existing public buildings or facilities ...shall be governed by all applicable subsections in 521 CMR. 3.3.1...,

a. if the work costs less than \$100,000, then only the work being performed is required to comply with 521 CMR...,

b. if the work costs \$100,000 or more, then the work being performed is required to comply with 521 CMR. In addition, an accessible public entrance and an accessible toilet room, telephone, drinking fountain (if toilets, telephones and drinking fountains are provided) shall also be provided in compliance with 521 CMR...,

3.3.2 If the work performed, including the exempted work, amounts to 30% or more of the full and fair cash value (see 521 CMR 5.00) of the building the entire building is required to comply with 521 CMR. "

Also, according to AAB 3.5, any work performed, even if under separate contracts or building permits, within a 3 year period must be included in the aggregate construction cost. This includes sitework and building renovations, whether done separately or together.

- Future Change Orders and other unanticipated costs could also trigger full compliance if the aggregate value exceeds the 30% limit.
- Cost of future building projects requested for permit within 3 years of the permit date for this project will be considered part of the project costs and may trigger compliance.

The building and site must be reviewed together and may affect compliance in areas not anticipated to be updated to comply.



• If a building's renovation cost exceeds 30% of the building assessed value, then the <u>entire</u> <u>building and site</u> must be made to comply;

Compliance with MA General Laws Chapter 148 Section 26G (State Fire Code) is required in all existing buildings in which renovations will exceed 7,500 square feet in area <u>or</u> in which major alterations' are planned, as defined by the statute. Under these conditions, an existing building must provide a full sprinkler fire suppression system if sufficient water flow and pressure is available. A major alteration is defined as a reconfiguration of walls, doors, windows, mechanical systems, etc., which effectively makes installation of sprinkler systems easier and which affects more than 33% of the building area <u>or</u> more than 33% of the assessed value of the building. Buildings for which sufficient water flow and pressure <u>does not exist</u> are exempt, however, it is assumed that sufficient flow and pressure is available and all code discussions below are based on this building being fully sprinklered.

Also, according to this section of the Fire Code, any work performed, even if under separate contracts or building permits, within a 5 year period must be included in the aggregate construction cost to determine applicability of the Code. This includes site work and building renovations, whether done separately or together.

- Future Change Orders and other unanticipated costs could also trigger full compliance if the aggregate value exceeds the 33% limit.
- Cost of future building projects requested for permit within 5 years, before or after the permit date for this project, will be considered part of the project costs and may trigger compliance.

Energy conservation, as required by the IECC for new construction, is not required for renovations to existing structures under the IEBC. However, any new elements or alterations to the exterior building envelope, such as new windows or new roofing, must comply to the greatest degree possible. As stated in the IEBC Alteration Level 3 Section 808 Energy Conservation "Essentially, the entire building is not require to meet the energy provisions, but only improvement in the energy performance of the building is intended to be achieved by making the new elements meet the IECC...". Overall upgrade of the exterior envelope of this building is not required or recommended and so is not reviewed as part of this study, except for elements recommended to be replaced.

General Information

According to the Sharon Assessors Department, the Town Hall Building is located at 90 South Main Street and the building was constructed in 1964. The area of the building is listed on the Assessor's Card as 9,457 total gross square feet (GSF) divided between a basement, first floor, and second floor.

The current assessed value of the Town Hall building (structure only) is \$1,090,600.

- The threshold value of the cost trigger for accessibility (full compliance) is 30% of this value less the cost of permitted work within the last 3 years.
- The threshold value of the cost trigger for fire protection (full compliance) is 33% of this value less the cost of permitted work within the last 5 years.



These cost thresholds are shown below. The cause of the renovation or the source of the funding is not relevant, only the total value of cost for renovations, including demolition. Any work within these time limits which exceed these cost triggers will require that the entire structure and site be modified to be compliant. Because each threshold is based on the aggregate value of recent work (requiring a building permit) over the most recent 3 or 5 years, this threshold value is dynamic and will change based on the aggregate value of recent projects over time. The values below are based on current information and are only a guide; these costs should be recalculated when a new renovation project is considered.

COST THRESHOLDS FOR ACCESSIBILITY AND FIRE SUPPRESSION COMPLIANCE			
Assessed Value (Structure Only)	\$1,090,600		
A. 30% Cost Trigger for Accessibility Compliance	\$ 327,180		
B. 33% Cost Trigger for Fire Protection	\$ 359,898		

AGGREGATE TOTAL VALUE OF RECENTLY COMPLETED WORK			
Date Description		Approximate Value	
May 2011 Window and Storefront Replacement		\$ 79,900	
July 2011 HVAC wall units		\$ 78,975	
10/31/2013 Electrical Repairs		\$ 21,400	
C. 3 year aggregate total value for accessibility compliance		\$ 21,400	
D. 5 year agg	gregate total value for fire protection compliance	\$ 180,275	

ACCESSIBILITY AND FIRE SUPPRESSION UPGRADE REQUIREMENT				
Renovation Cost for Full Accessibility Compliance (A. – C.)	\$ 305,780			
Renovation Cost for Full Fire Protection Compliance (B. – D.)	\$ 179,623			

In summary, in the event that the existing Town Hall is renovated or has an addition constructed, if the value of that work exceeds \$305,780 then the entire building and site must be modified to be compliant with the AAB Accessibility Code if the value of that work exceeds \$179,623 then the entire building must be sprinklered.

BUILDING CODE COMPLIANCE ANALYSIS (IEBC / 780 CMR - IBC)

Although the Town Hall would be regulated under the IEBC for the purposes of a renovation of the existing building, this analysis reviews compliance with regard to requirements of the new IBC. This is to ensure that existing conditions which do not meet the current intent for life safety, and which may be allowed to remain as part of a renovation under the IEBC, are identified for correction. In the discussion below, references to specific code sections are noted before each paragraph with parentheses.



(IEBC 101.4.2) Applicability: Under this definition, as a building that has been previously occupied prior to the issuance of the Code, this building is considered an existing building and regulated under the IEBC.

(IEBC 101.5.2) IEBC offers three methods for compliance analysis and four levels of work classification. For the purposes of this study, the *Work Area Compliance* method will be used and future renovations will be considered as an *Alteration Level 3* work classification.

(IEBC 701.3) Compliance: All new elements must comply with IBC.

*The following discussions regarding Type of Construction, Use Group Classification, and Height and Area Limitations are provided to document the existing facility classification only. These characteristics are not regulated by the IEBC and existing buildings are not required to be modified to comply as a result of renovations. Additions to an existing building, however, must conform to current limitations of allowable height and area and are regulated by the IBC. Determination of the allowable height and area of the existing structure provides guidance for the extent of any new additions that may be planned.

(IBC Ch. 3 – Use and Occupancy)

(IBC 305.1) Primary Use Group: Group B - Business

(IBC 305.1) Mixed Use Areas: Group S-2 Storage (Mechanical, Storage)

Group A-3 Assembly (Selectmen's Meeting Room)

(IBC Ch. 5 – General Building Limitations)

Height and area limitations for the existing building are presented below to show the allowable area for the uses within the building and possible expansion of the existing building. Because the existing building exceeds 7,500 GSF, it is assumed that any Level 3 renovation will require this building to be fully sprinklered and that any addition to the existing building will require sprinklers to be installed throughout the new structure. The allowable floor area calculations below include increases permitted for existing sprinklers and building frontage accessible to emergency vehicles; however, this allowable increase in area for accessible frontage may be affected by additions to the building.

According to information from the Sharon Assessing Department, the current building area is listed at 9,457 gross square feet (occupied space) for all floors combined. Storage uses and Assembly uses are calculated from the original construction documents as occupying less than 10% of the gross area of the relative floor levels and so are considered to be accessory to the Business Use on each floor.

(Table 503) Because of the low cost thresholds stated above, it is presumed that any renovation or new additions for this building will require installation of a sprinkler system and so the allowable height may be increased by one story and the allowable area may be increased by 200% from that stated in the Code. Additionally, as the building perimeter is accessible for fire and rescue vehicles from the road or parking areas on all sides of the building, the maximum allowable area may be increased by an additional 75% for this accessible frontage.



- ➤ The accessible street frontage combined with the allowable area increase for a sprinkler system will allow a total increase in area of 275% in addition to the limitations stated in Table 503. This total allowable area is shown in the last column of the table below.
- The total area of the building cannot exceed the allowable area used for the primary Business ("B") Use Group. Other uses within the mixed use building cannot exceed an area proportional to the percentage of the area that Use Group occupies in the building. Because this ratio of allowable areas between uses may vary based of differing layouts, it is impossible to provide an allowable area for all uses in every possible combination. As such, the allowable area for Use Group B is calculated as a baseline and further calculation will be required to confirm if future renovations are within Code requirements.

USE GROUP	Total Allowable Height (+1 Story	Allowable Area per Story Plus Increase for Sprinkler System and Accessible Perimeter			
	Increase for Sprinkler System	Allowable Area (Table 503)	Sprinkler System Area Increase (+200%)	Accessible Perimeter +75%	Total Allowable Area per Floor with Allowable Increases
В	4 Stories	23,000 sf.	+ 46,000 sf.	+ 17,250 sf.	86,250 sf.

+ 19,000 sf.

7,125 sf.

35,625 sf

(Table 503) The allowable height & area for each Use Group under Type II-B (2-B) Construction is:

(IBC 508.3 & 508.4) Buildings with multiple Use Groups are called mixed-use buildings. In this case, the Business (Use Group B) and Assembly (Use Group A-3) are the mixed uses. Buildings are further classified as a 'separated' mixed use or a 'non-separated' mixed use.

9,500 sf.

- If classified as a 'separated' mixed-use building, the different use groups within the building must be separated by fire rated construction as required in Table 508.4.
- If classified as a 'non-separated' mixed-use building, then fire rated separations are not required BUT the most restrictive use group is used to calculate the allowable height and area.

When this building was originally constructed, the separation requirement was not the same as today and this is not indicated in the original construction documents available from the town and is not indicated on the Assessor's Property Card. Without this information, the building may be classified as a 'separated' or 'non-separated' mixed use; both have benefits and concerns.

- If classified as a 'separated' mixed-use building, the walls, floors, and doors separating the Assembly space from the Business space must be fire rated for 2 hours (if non-sprinklered, as is existing) or for 1 hour (if sprinklered, as in a renovation).
 - As shown in the table above, using the B Use as primary allows the largest floor area build-out at approximately 86,000 GSF.
 - The fire rating of the floors and walls in the existing building do not seem to comply with this requirement. Reconstruction of the structure and walls to provide this fire rating may be difficult and very expensive.



A-3

3 Stories

- If classified as a 'non-separated' mixed-use building, then fire rated separations are not required BUT the most restrictive Assembly A-3 use group must be used to calculate the allowable height and area.
 - O As shown in the table above, using the A-3 Use as primary allows the restricts the allowable floor area build-out to approximately 35,000 GSF.
 - Because a fire rating of the floors and walls in the existing building is NOT required in this condition, the existing floors, walls, and doors already comply and do not require expensive reconstruction.

Because the existing walls and floor around the Selectmen's Meeting Room are not 2 hour fire rated and the size of the building is far below the allowable area permitted for an A-3 use shown in the table above, it is recommended to consider the existing building as a non-separated mixed use with A-3 as the primary use. This classification is only used for the purposes of calculating allowable height and area and does not change the business occupancy of the building for any other aspect of the Code such as occupancy load.

(IBC 508.2.4 and Table 508.4) In table 508.2.4, rooms used for storage and assembly may be considered to be accessory to the primary Use Group if the aggregate area of these rooms is less than 10% of each floor area and smaller than the area allowed by Table 503. Spaces considered to be accessory to the primary use are not required to be separated from the primary use by fire rated partitions. This report assumes that all Storage is considered to be accessory and so not separated. However, the Assembly uses are greater than 10% of the Second Floor area and must be treated as a mixed use as discussed above.

ALLOWABLE INCREASES IN AREA PER FLOOR (BASED ON A-3 USE GROUP)			
Floor	Allowable Area	Current Floor Area	Increase in Area Allowed
Second Floor:	35,625 GSF	2,880 GSF	32,745 GSF
First Floor:	35,625 GSF	3,697 GSF	31,928 GSF
Basement:	35,625 GSF	2,880 GSF	32,745 GSF

IBC Ch. 6 – Types of Construction

(IBC Table 601) No information is provided by the Sharon Assessing Department with regard to the type of construction of the building. As shown on the original construction documents, the building is constructed of skeletal steel frame and masonry bearing wall construction with aluminum curtain wall and masonry veneer.

As the existing construction system is skeletal steel framing with non-fire rated structural members, this generally conforms to the requirements for Type II-B (Roman numeral 2 - B, unprotected) construction in the current IBC. Where visible, the structure does not appear to be protected with spray fireproofing or other rated construction. Interior partitions are non-load bearing metal stud with drywall/plaster construction.



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Type II-B Construction Type Min. Fire Resistance Rating Requirements (780 CMR Table 601)

Building Elements	Required Fire Resistance Rating (Hrs)
Structural Frame (including columns, girders, and trusses)	0
Exterior Bearing Walls	0
Interior Bearing Walls	0
Exterior Non-Bearing Walls and Partitions (See Table 602)	0
Interior Non-Bearing Walls and Partitions	0
Floor Construction (including support beams and joist)	0
Roof Construction (including support beams and joist)	0

Table 601 establishes the required minimum fire rating of construction elements and is related to the allowable height and area discussed in Table 503 below. Type II-B (2-B) construction allows the building structural members to be unprotected (not fire rated). The tradeoff for not incurring additional costs to protect the building structure is a reduction in the allowable height and area that can be built; essentially, the greater the fire protection of building structural elements, the larger the building height and area which is allowed.

(IBC Chapter 10 - Means of Egress)

Occupancy load in the existing facility is determined by the functions in each area of the building and not the primary use group. According to the IBC Table 1004.1.1, Business functions require an occupant load calculated at 100 GSF per person, Mechanical/Storage areas are calculated at 300 GSF per person, and Assembly spaces are calculated at 5, 7, or 15 GSF per person dependent upon whether the persons are standing, sitting, or at tables. As the functions and areas for each may change over time, areas with lesser occupancy rates may be renovated for a use with a higher occupancy rate. This summary will not break out each function separately; as a preliminary determination of occupancy, a rate of 100 GSF per person will be used as an overall general occupancy rate for this building as this will be the predominant occupancy for any renovation of the building:

2,880 GSF (Second Floor) / 100 sf. per occupant = 29 occupants on the Second Floor, and
 3,697 GSF (First Floor) / 100 sf. per occupant = 37 occupants on the First Floor, and
 2,880 GSF (Basement) / 100 sf. per occupant = 29 occupants on the Basement.

The egress capacity (0.2"/ per occupant for sprinklered buildings) for a minimum 44-inch wide stairway is approximately 220 occupants. The egress capacity (0.15"/ per occupant for sprinklered buildings) for a typical single 36-inch wide egress doorway is approximately 240 occupants.

As the First Floor has 2 exit doors (480 occupant capacity) and 2 exit stairs (440 occupant capacity) are provided to egress from the Basement and Second Floors, egress capacity provided is sufficient for the occupant load of the existing stated above.



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➤ However, if an addition is constructed onto the existing building, additional exit doors and stairs may be needed if the occupant load exceeds the capability of the existing stair and door egress elements.

IEBC 102.2.2.1 is an amendment by the State of Massachusetts and supersedes other less restrictive paragraphs in the IEBC. This amendment requires that all existing stairs comply with current requirements of the IBC with regard to the quantity of exit ways on each floor, the width of all exit ways, fire rating, handrails, continuity, etc., to "provide safe and adequate means of egress".

Existing egress stairs in the building do not provide compliant guards and guardrails. Guards have horizontal rails and are required to have vertical balusters spaced no more than 4" apart. Also, guardrails must be a minimum of 42" above the stair or floor; in the front and rear egress stairs, the guards are not 42" high. All stair conditions must be corrected in accordance with current egress requirements as part of any renovation project.

(IEBC 703.2.1 Existing Vertical Openings)

All existing vertical openings connecting 2 or more floors must have an enclosure with a fire-resistive rating of 1 hour minimum. Shafts connecting all floors, such as the stairs and elevator shafts, must be separated by fire rated construction.

- The front exit stair is open to the main lobby and is not compliant.
 - o 1016.1 Exception 3: If the stair to the Basement is closed with a fire rated enclosure, then the stair may remain open to the Main Lobby.
- ➤ Opening protectives, doors, frames, and glazing, on these stairwells are not compliant because these are not fire rated and do not latch. All door systems at stairwells must be replaced.

(IBC 1014.3) In buildings of a Business Use without a sprinkler system, the allowable length of a common path of travel is 75 feet.

➤ All existing conditions are compliant.

(IBC 1015.2) When multiple exits are required, the exits must be separated by a minimum distance equal to 1/3 of the longest diagonal distance of the floor plate. The longest diagonal distance across the building is on the First Floor and is approximately 100 feet, so the separation between each exit is required to be a minimum of 30 feet.

Existing exits are separated by a minimum distance of 40 feet and are compliant.

(IBC Table 1016.1 Exit Access Travel Distance) The allowable travel distance for a Business Use non-sprinklered building is 200 feet.

➤ All existing conditions are compliant.

(IBC 1018.1) In buildings of a Business without a sprinkler system, the minimum fire rating of exit access corridors when serving more than 30 persons is 1 hour. The First Floor exceeds this occupancy and Second Floor with the Selectmen's Assembly Room in use will exceed the minimum occupancy of 30 persons.

Corridor doors and transaction counters throughout the building are not fire rated and do not have automatic closing devices.



- All corridor doors on the first and second floor, and recommended throughout the building, should be replaced with 1 hour fire rated doors with automatic closing devices.
- > Transaction windows in corridors are open and do not provide a fire rating. Fire shutters should be provided at transaction windows on the first and second floors.

If the building is sprinkered as a result of a renovation or addition, there is no fire rating required for exit access corridors for this occupancy load (0 hours).

(IBC 1018.4) In buildings of a Business without a sprinkler system, the allowable length of a dead end corridor is 20 feet.

There are no dead end corridors and all exisiting locations are compliant.

(IBC 1021.1) All stories are required to provide a minimum of 2 means of egress, except when serving less than 10 occupants and not in an "I – Institutional" use group. As this building is classified as a Business B Use Group with more than 10 occupants per floor, but not more than 500 occupants per floor, a minimum of 2 means of egress must be provided.

> Two means of egress are provided from each floor and the building is compliant.

(248 CMR 2.10 Plumbing Fixtures) Based on a calculated current occupancy of 95 persons, the plumbing code requires a total of 3 water closets/2 sinks for females and 2 water closets/2 sinks for males in this building. Currently, there is total of 3 water closet/3 sinks for females and 2 water closets/2 sinks for males. A unisex toilet on the First Floor is assumed to be a single water closet and sink for males. In this condition, the number of toilet fixtures complies. However, this number of toilet fixtures may be reduced as a result of modifications for handicapped accessibility.

Use Group	Occupants	Rate for	Fixtures Required
B (Business)	45 (Actual)	Men: 1 / 25; Women: 1/20	Men: 1 Fixture
	(23M / 23 W)		Women: 2 Fixtures
A-3, Assembly	50 (Worst Case)	Men: 1 / 100; Women: 1/50	Men: 1 Fixture
	(25M / 25 W)		Women: 1 Fixture
Total fixtures :			Men: 2 Fixtures
			Women: 3 Fixtures

ACCESSIBILITY CODE COMPLIANCE ANALYSIS (521 CMR AAB)

Accessibility in public buildings is regulated by 521 CMR, which is enforced by the Massachusetts Architectural Access Board (MA AAB) and the Building Inspector of the municipality. 521 CMR, as issued in 2006, is used for this review. MA AAB 5.1 Definitions states:

"Public Buildings: A building privately or publicly financed that is open to and used by the public, including but not limited to transportation terminals, institutional buildings, educational buildings, commercial buildings, buildings having places of assembly, [etc.]..."

and MA AAB 11.1 Commercial Buildings states:

- "Commercial buildings are public buildings as defined in 521 CMR and shall include but not be limited to: [...] city and town halls and facilities."
- ➤ Sharon Town Hall is a public, commercial building and is required to be accessible in accordance with 521 CMR.



AAB 11 – Commercial Buildings (Municipal Facilities)

(AAB 11.5) Toilet rooms are required to be accessible.

Accessible male and female toilet rooms are not provided for public use near the First Floor Lobby. Refer to discussion below in Section AAB 30 Public Toilet Rooms.

(AAB 11.6) Transaction counters and other work areas are required to be accessible.

Accessible transaction counters are not provided. At all teller windows and areas serviced across counters, a transaction counter shall be provided which is not more than 36" high and is at least 36" wide and on an accessible route. All transaction counters in the building do not comply and must be modified or replaced.

AAB 14 – Places of Assembly

(AAB 14.2) Places of assembly are provided in the Second Floor Selectmen's Meeting Room. The Selectmen's Meeting Room has loose seating and tables. Loose seating may be removed to create an accessible location as desired. Based on the number of seats (26 - 50), two accessible locations must be provided. According to 14.1.1, distribution of these accessible seats may be provided in one location in the room (non-disbursed) because the room has an occupancy of less than 150.

➤ Because the Selectmen's Meeting Room may accommodate 50 persons, it is required to have an assistive listening system.

AAB 20 - Accessible Routes

(AAB 20.1) Accessible routes within the building generally comply with requirements for width, passing space, protruding objects, headroom, etc.

(AAB 20.6.1) Objects projecting from walls with their leading edges between 27 inches and 80 inches above the finished floor must not protrude more than 4 inches into walks, halls, corridors, passageways or aisle and must not have sharp edges.

Existing water coolers are mounted on the corridor wall surface and not in a wall recess. These project fully into the corridor accessible route.

(AAB 20.12) Areas of rescue assistance at stairways and means of egress are not required in accordance with Exception a. Existing Buildings.

AAB 24.00 - Ramps

Interior ramps are not provided within the building. Ramps on the exterior of the building are reviewed in the Landscape portion of this study.

AAB 25.00 – Entrances

(AAB 25.1) All public entrances to the building must be accessible and be on an accessible route.

Access to the building from the exterior is not compliant at the Ground Level public entrances. The Front entrance is elevated by stairs and is not accessible. Doors are 42" wide and are accessible.



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The Side entrance to the Main Lobby is elevated by sloped grade and is not accessible. A sloped walk is provided that is too steep and not compliant as a ramp. Doors are 36" wide and are accessible.

The Rear entrance vestibule is at grade and accessible to the interior stairs. The interior stair prevents accessibility to the interior of the building; a chair lift is provided but this is not allowed for compliance to buildings.

AAB 26.00 - Doors and Doorways

(AAB 26.5 – Door Width) All doors on an accessible route must provide a clear opening that is a minimum of 32" wide.

- All doorways to toilet rooms are less than 32" clear width. These must be changed to 36" wide doors if the existing toilet rooms will continue to be used.
- ➤ Connecting doors between offices are less than 32" wide. These must be changed to 36" wide doors.
- ➤ Doors to offices within the Health Department and the Collector's Office are less than 32" wide. These must be changed to 36" wide doors.

(AAB 26.6 – Maneuvering Clearances)

Doors must have 18" on the pull side of the door and 12" on the push side of the door lever.

- Most doors in the building appear to provide required pull and push clearances for accessible doors, except that all toilet room doors do not provide accessible clearances.
- ➤ Doors at the Town Clerks Office and the Accountant do not provide clearance on the office pull side of the door.
- ➤ Because of the lack of space in the building, many doors do not have accessible clearances because of furniture located adjacent to the door opening. This furniture must be moved.

(AAB 26.11 - Door Hardware)

Existing hardware throughout building is knobs and is not compliant.

➤ All door hardware must be changed to leversets.

AAB 27.00 – Stairs

(AAB 27.3 - Nosings)

Stair nosings are required to be angled or radiused and not abrupt.

Existing stair nosings appear to be compliant.

AAB 28.00 - Elevator

(AAB 28.1) Multistory buildings are required to be served by an elevator.

The building does not provide an elevator to all floors and is not compliant.

AAB 30.00 - Public Toilet Rooms

All public toilet rooms must provide an accessible toilet and sink on an accessible route. All toilet rooms in the building are not fully compliant. However, First Floor toilet rooms may be modified to comply with renovation which deletes the Janitor's Closet and Second Floor toilet rooms may be modified to comply



with renovation which deletes the Janitor's Closet and the IT Office. Without these renovations, continued use will require a variance from the AAB; because renovation is available to make these rooms compliant, the probability is low that this variance will be approved.

First Floor Men's Toilet Room:

- Sign on the door states that this is a Unisex Accessible toilet room, not a Men's Toilet Room.
- Dimensions of toilet room complies with AAB: 90" long by 72" wide required.
- Door is 32" wide and does not provide 32" of clear width. Door must be replaced with a 36" wide door.
- Door swings in. Door must swing out for toilet room this size.
- Door hardware does not comply with AAB.
- Toilet flush valve on wrong (corner) side of toilet.
- Toilet clearance from wall does not comply with AAB: 14" provided, 18" required.
- Grab bars mounting height and location complies.
- Mirror mounting height complies with AAB.
- Lavatory and faucet complies with AAB for knee clearance.
- Piping below sink does not comply with AAB or plumbing code: provide insulation on exposed piping.

First Floor Women's Toilet Room:

- Accessible toilet and sink not provided within this room.
- Dimensions of toilet room do not comply with AAB for existing 2 stalls and will not comply if modified for 1 stall. Renovation utilizing space from adjacent Janitor's Closet needed to provide compliant room dimensions for a 1 fixture toilet room.
- Door is 28" wide and does not provide 32" of clear width. Door must be replaced with a 36" wide door.
- Door swings in. Door must swing out for toilet room this size.
- Door hardware does not comply with AAB.
- Toilet clearance from wall does not comply with AAB: 14" provided, 18" required.
- Toilet flush valve on wrong (corner) side of toilet.
- Grab bars are not provided.
- Mirror mounting height is too high and does not comply with AAB.
- Lavatories and faucets do not comply with AAB for knee clearance.
- Piping below sink does not comply with AAB or plumbing code: provide insulation on exposed piping.

Second Floor Men's Toilet Room:

- Accessible toilet and sink not provided within this room.
- Dimensions of toilet room (60" x 60") do not comply with AAB. Renovation utilizing space from adjacent Janitor's Closet will not provide compliant room dimensions for a 1 fixture toilet room. Additional space from IT Office will be necessary for compliance.
- Door is 28" wide and does not provide 32" of clear width. Door must be replaced with a 36" wide door.
- Door swings in. Door must swing out for toilet room this size.
- Door hardware does not comply with AAB.
- Toilet clearance from wall does not comply with AAB: 14" provided, 18" required.
- Toilet flush valve on wrong (corner) side of toilet.
- Grab bars are not provided.
- Mirror mounting height is too high and does not comply with AAB.
- Lavatories and faucets do not comply with AAB for knee clearance.
- Piping below sink does not comply with AAB: provide insulation on exposed piping.



- Second Floor Women's Toilet Room:
 - Accessible toilet and sink not provided within this room.
 - Dimensions of toilet room (60" x 60") do not comply with AAB. Renovation utilizing additional space from IT Office will be necessary for compliance.
 - Door is 28" wide and does not provide 32" of clear width. Door must be replaced with a 36" wide door.
 - Door swings in. Door must swing out for toilet room this size.
 - Door hardware does not comply with AAB.
 - Toilet stall is provided (32" x 60") but dimensions do not comply with minimum size required by AAB (60" x 108").
 - Toilet clearance from wall does not comply with AAB: 14" provided, 18" required.
 - Toilet flush valve on wrong (corner) side of toilet.
 - Grab bars are provided but not compliant.
 - Mirror mounting height is too high and does not comply with AAB.
 - Lavatories and faucets do not comply with AAB for knee clearance.
 - Piping below sink does not comply with AAB or plumbing code: provide insulation on exposed piping.

AAB 32.00 - Kitchens

(AAB 32.1) Non-commercial kitchens must provide a 60" diameter accessible space in front of kitchen equipment and knee space under sinks and cooktops.

- > Break room on the Basement Level does not provide required knee space access to the sink.
- Turning radius clearance not provided in front of countertop.
- ➤ Counter in Break room on the Basement Level is 36" high; 34" maximum height allowed by AAB.

AAB 36.00 – Drinking Fountains

(AAB 36.1.1)

Drinking fountains are provided within the building; however, these are only single level units and not accessible.

➤ Bi-level drinking fountains set at accessible heights must be provided.

AAB 41.00 – Signage

(AAB 41.00)

Room signage with braille must be provided at all 'permanent rooms and spaces' as well as code required egress signage.

Compliant signage and Symbols of Accessibility are missing throughout the building. Where exit signs indicate an accessible route, if all routes are not accessible, these signs shall include the symbol of accessibility.



EXISTING CONDITIONS REPORT

- a. SITE ANALYSIS
- b. ARCHITECTURAL ANALYSIS
- c. STRUCTURAL ANALYSIS
- d. Hazardous Materials Analysis



The Sharon Town Hall shares a 1.38 Acre site sandwiched between South Main Street and Bradford Ave., with East Chestnut Street forming its northern property line. The site is zoned Business District A, but falls outside of all of the groundwater, surface water, and historic protection districts.

Business District A Requirements

Minimum lot area: No minimum lot size for all uses other than residential

Minimum Lot Frontage: No minimum frontage or width for all uses other than residential

Maximum Lot Coverage: Sixty (60%) for all uses other than residential.

Minimum Landscaped Open Space coverage including Natural Vegetation Areas: 20%

Buffer Strips shall be provided on side and rear lot lines adjacent to residential districts.

Minimum width: 15'

Minimum buffer strip width adjacent to lots of existing residences: 25' along lot lines with residential structures existing at the time of the Building Permit issuance.

Maximum Yard setback: 10' from property line or street sideline for front side and rear.

Maximum height: Three stories or 45'



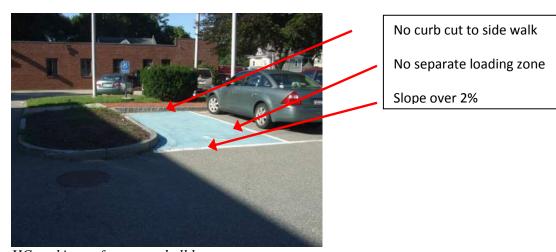
SITE AMENITIES

The town hall site provides space for parking for the town hall and the fire station, several War Memorials, lawn and vegetation and access paths from the surrounding streets to the buildings. Since the site is relatively flat, there are no natural impediments to providing full access throughout the landscape and the parking areas. The fire department has some storage around the building. Some specimen trees (Redbuds, Holly and Dogwoods) are located in the east lawn behind the town hall.

PARKING

Parking is provided in three locations; the front town hall lot, the front fire lot and the rear lot, shared by both the town hall and the fire department. Total parking on the site is 44 spaces, of which four (4) are stripped for reserved ADA parking. Per code, only two spaces are required for this number of parking spaces. None of the spaces are marked for van accessibility. The asphalt and concrete walks on the site are in relatively good condition and do not contribute to the inaccessibility of the town hall.

None of the four spaces meets current code, however, missing either loading zones, curb cuts to sidewalks or accessible ways. The parking space in the town hall lot has a slope of between 3.7 and 4.1%, no curb cut to the sidewalk, and no striped accessible lane that is discernable from the actual parking space. Code currently requires all parking spaces and loading zones to be under 2%.



HC parking at front town hall lot

The two spaces on the south side of the town hall have no loading zone, with a curb cut for access to the sidewalks, and abut an entrance ramp to the building that has a 15.6% slope. These spaces are 8' wide x 22'. Two signs call out the HC parking with one additional sign directing the disabled to the rear door for access to the building.

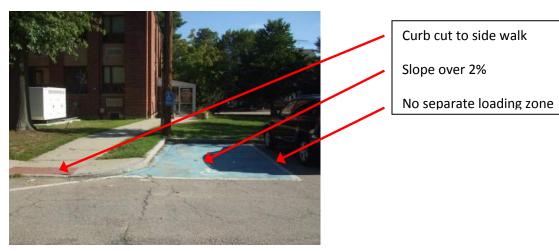




HC parking on south side of town hall

Ramp to building at 15.6% slope

The final ADA space is located south east of the Town Hall. This space is 18' x 10'-3" but does not have a specific loading zone. The curb cut for the space is located at the end of the sidewalk to the rear of the space. There is a 5% slope within the parking space.



HC parking on southeast of town hall.

PEDESTRIAN ACCESS

The sidewalks surrounding the site and providing access to the building are asphalt, concrete or brick. Curb cuts on South Main and at the intersection of South Main and East Chestnut meet current codes. There is no curb cut for the sidewalk running along East Chestnut Street that ends at Bradford Street. A curb cut is provided in front of the main entrance to the Sharon town offices but is not signed as either a pedestrian drop off or as a point to cross the road to the sidewalk that runs to South Main Street, (which has a curb cut as well). There is no curb cut for access to the flagpole. The concrete path to the flagpole is too narrow for accessibility in any case. Apart from this sidewalk, all other sidewalks are either 5' or 6' wide.



Pedestrian access to the Town Hall building is either through exterior stairs at the front entrance, a steep ramp on the south side of the building or to a vestibule on the east side of the building. Only one of these entrances could be considered accessible. Access to the Fire station is directly from the parking areas or driveway. There is not adequate clearance on any of the doors for ADA accessibility.



Sidewalk & Curb cut at South Main Street

Curb cut at South Main and E. Chestnut



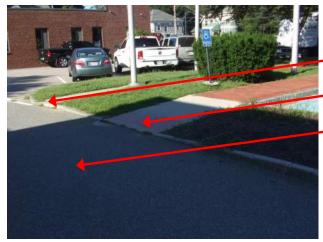
Curb cut at front of Town Hall

Stairs to front entrance

Curb cut from sidewalk to drive

No crosswalk to opposite sidewalk



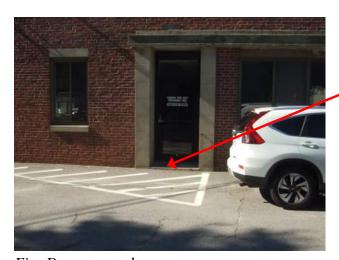


Narrow walk with no curb cut

Curb cut from sidewalk to drive

No crosswalk to opposite sidewalk

Curb cut opposite the Main Entrance



Inadequate clearance for door use

Threshold too high for accessibility

Fire Department door



Sidewalk at Bradford and East Chestnut Street



No Curb cut to roadway

Recommendations:

- 1. Modify ADA parking spaces to provide correct slopes, signage and access paths.
- 2. Remove access ramp to south door and build an accessible ramp to the door.
- 3. Provide the necessary clearances to Town Hall office door that is accessible from the outside.
- 4. Provide curb cut and ramp at corner of Bradford and East Chestnut Street.
- 5. Provide concrete stoops at fire department building accesses and widen the doors to provide clearance.
- 6. Provide crosswalk at front entrance and/or passenger loading zone striping and signage.





Sharon Town Hall was built in 1964, according to the property card on the town Assessor's website, at the same time as an addition to the existing Fire Station on the same site. There is a main entrance facing the primary parking lot on South Main Street that provides the civic face to the building; however, this entrance is set above grade with five steps and is inaccessible. A second entrance is provided at the rear of the building through a small vestibule that was added to the building in 1994. This entrance leads to an internal stair with a chairlift.

According to the Assessor's website, the building is 9,457 gross square feet on three floors: a basement of 2,880 gross square feet, a first floor of 3,697 gross square feet including the rear vestibule, and a second floor of 2,880 gross square feet. The Town Hall is not listed on the State or National Historic Building Register and is not included in an historic district.

EXTERIOR ENVELOPE

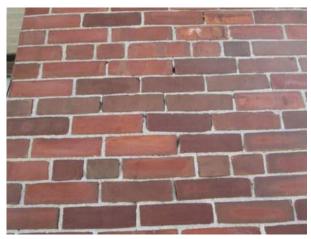
Please refer to the Structural Evaluation in another chapter of this study for additional information about the exterior envelope.



Windows and Doors

According to the original construction documents, the exterior face of the building is constructed of 4-inch brick veneer with a backup wall of 8-inch masonry and concrete. This masonry construction is the full thickness of the exterior walls; there is no insulation in the minimal masonry cavity of the exterior walls. Dark and light brick are set in alternating vertical sections with punched windows made of aluminum storefront. The exterior brick veneer wall is in very good condition despite a lack of expansion joints in the walls. There is some degradation of the exterior walls where brick faces have spalled and mortar joints require repointing, especially at the boiler chimney. The concrete cap at the boiler chimney and the concrete entrance canopy at the side of the building are in poor condition with visible degradation and exposed rebar. The windows and entrance storefront were replaced in 2011 and are in very good condition.











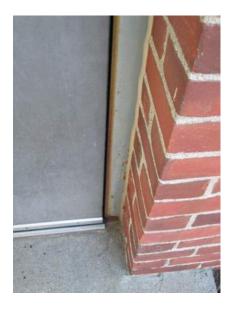






KAESTLE BOOS associates, inc

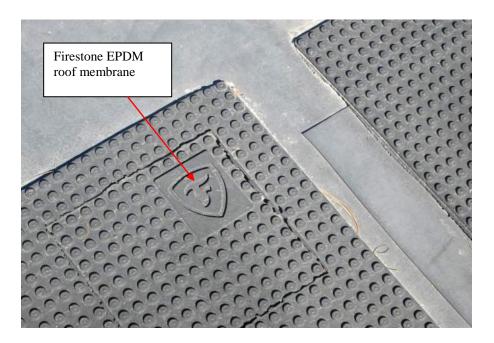
Exterior steel doors and frames show rust and wear. The exterior door to the basement areaway is rusted and has spray foam insulation inserted into the frame and below the threshold.





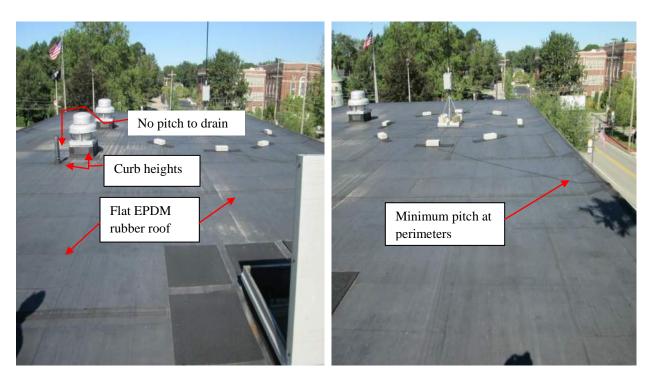
Roofing:

The Sharon Town Hall facility consists of an original two story building and a lower single story addition. The existing roofs on both levels consist of a fully adhered Firestone EPDM rubber membrane. Both roofs are totally flat with no pitch to the drains. This condition does not conform to building code which requires a minimum of ¹/₄" per foot slope.

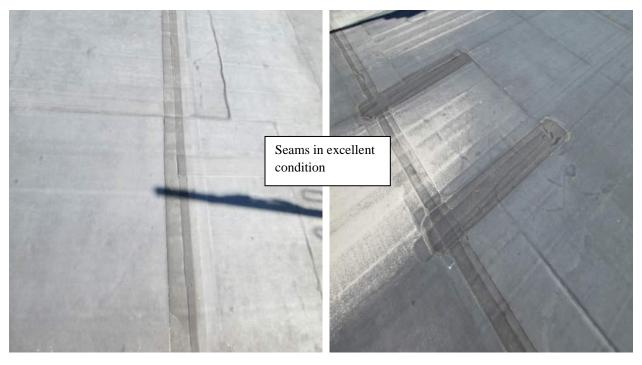




The upper roof membrane appears to be to be in good condition. The curb heights for the mechanical units and the heights of the vent stack comply with industry guidelines.



It was noted that all the seams show no evidence of deterioration and appear to be in excellent condition.





There is only one drain on each level; typically the industry recommends a minimum of 2 drains per roof level in order to have an alternative outlet in case of an emergency. In this facility however, the upper level drain is more like a scupper since it only pipes the water out onto the roof below.

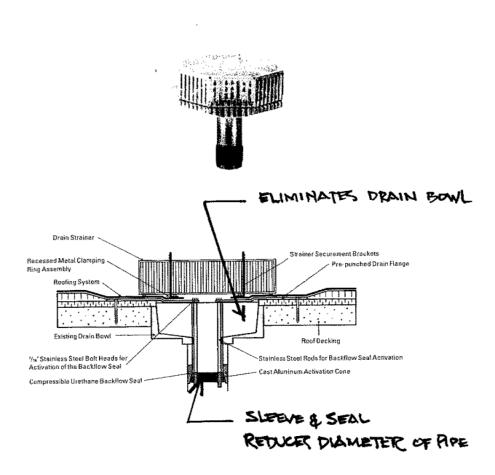


The drains on both levels are insert replacement products that do not meet the Massachusetts plumbing code because they eliminate the drain bowls and are installed by inserting a sleeve into the drain pipe which reduces both the diameter and capacity of the vertical leader pipe.





INSERT PRAIN



The concrete chimney cap is cracked and deteriorated allowing water to enter the facility.

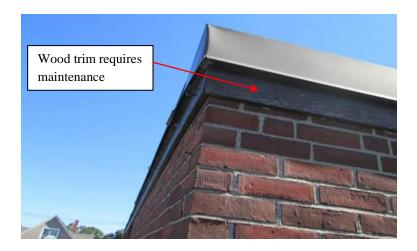




Masonry around chimney is cracked; water most likely migrates into the bricks causing further deterioration due to repeated freeze thaw cycles.



Painted wood fascia board beneath the metal fascia is in need of maintenance, wood should be clad in aluminum and color to match metal fascia to eliminate maintenance issues.



INTERIOR BUILDING ELEMENTS

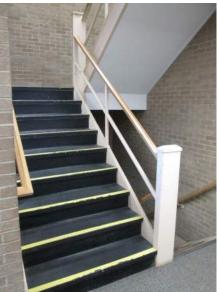
Interior Finishes

Interior wall finishes are durable and in fair condition throughout the building. In the main lobby and front and rear stairs, walls are finished with light colored brick matching the brick accent panels on the exterior of the building. Walls of interior corridors are finished with the original mosaic tile from floor to ceiling; this has been damaged as several locations, particularly at exposed corners. Toilet rooms and janitor closets are finished with glazed structural clay tile over masonry partitions. The interior surface of the exterior walls is painted CMU. Over the years, painted drywall partitions have been erected to



subdivide rooms and to create offices. Ceilings are typically suspended acoustical tile throughout and are in poor condition. Flooring on the first and second floors is carpeted throughout except in the toilet rooms where 1" mosaic tile is used, the same mosaic tile used on the corridor walls. In the basement, flooring is vinyl asbestos floor tile and must be abated during renovation work.









There are two stairs, one in the front of the building and one in the back of the building, and both connect the three floors in the building. There is no elevator for access between floors within the building but a chair lift is provided at the rear star. The front stair is not enclosed and there is a roof access ladder located in a chase within the rear stair enclosure.



Recommendations:

- 1. In order for any space on the basement level of the building to be used for occupancy or storage, the existing foundation walls must be excavated and provided with sheet waterproofing, insulation, drainage board, and new perimeter drainage piping to control water infiltration. Also, the basement floor slab must be protected with a topical vapor barrier to mitigate moisture migration through the floor slab, which could delaminate finish flooring and create mold issues.
- 2. The building does not provide an accessible route between occupied floors. Please refer to the Code Analysis in another section of this report for accessibility requirements. An elevator is necessary to accessibility between floors.
- 3. All interior flooring and ceilings and flooring should be replaced as part of an abatement plan. Please refer to the Hazardous Materials recommendations in another section of this report.
- 4. The existing EPDM membrane roofs are in good condition and will not require replacement for a number of years. At that time it will be important to provide a ¼" per ft. tapered insulation assembly to provide proper slopes to the drains per the current building code. The replacement drains should also be replaced with code compliant drain bowls that provide the maximum capacity to evacuate the water from the roof surfaces.
- 5. Clad the exposed wood trim below the roof gravel stop in aluminum sheet metal to eliminate maintenance and increase life expectancy.



SHARON TOWN HALL ENTRANCE



DESCRIPTION

The Sharon Town Hall facility consists of an original two story rectangular shaped building and a single story rectangular shaped addition. The structure of the original building consists of masonry bearing walls supporting steel joists and wide flange beams. The steel framing supports a reinforced concrete floor slab and roof deck. The roof deck is gypsum panels spanning between steel joists and beams. Foundations for the building are 12" thick reinforced concrete walls supported on reinforced concrete spread footings. The lower level floor is a concrete slab on grade with perimeter underslab drains located adjacent to the wall footings.





Floor Framing with Steel Joists and slab viewed from the underside



View of steel joists bearing on interior masonry bearing wall





Roof deck adjacent to hatch access to roof

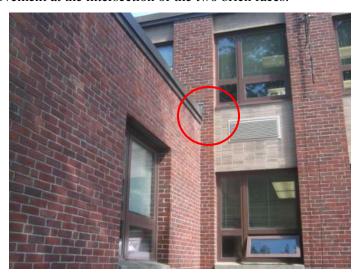


Gypsum prefabricated roof panels supported by steel beam



The building appears to be structurally sound. This conclusion is based on the exposed portions of the structure. I observed that the supported slabs showed no signs of movement or excessive deflection. The foundation walls do not exhibit any settlement or lateral movement and the masonry walls contained few cracks. The following is list of items observed which will require repairs to correct the individual issues.

• The masonry walls both interior and exterior are stable with only one location where a diagonal crack developed in the exterior brick. This is located on the east face of the single story structure where it is attached to the south wall of the multi-story building. The crack developed due to differential movement at the intersection of the two brick faces.



The south east corner where a diagonal crack developed in the brick wythe



Close up of the crack.



• The concrete chimney cap has spalled and cracked exposing reinforcing steel. In addition the first 2 feet of brick directly below the cap has spalled and cracked allowing the intrusion of water.



Cracked and Spalled concrete cap and brick



Vertical Cracks in the concrete cap on the north side of the chimney



• A concrete cantilevered canopy on the south face of the single story wing has spalled the concrete surface on the underside of the canopy exposing the reinforcing steel. The top surface of the canopy is not protected with roofing material so is as able to absorb water through the slab.



Exposed corroded rebar and spalled concrete surface

• Repointing of the brick mortar joints is necessary on a limited basis. Small areas have spalled but typically the brick joints are acceptable.



Spalled mortar joint



Recommendations

The following are recommendations to correct the items noted above in the report.

- The first involves the repair of the exterior brick at the intersection of the east wall of the single story wing and the south wall of the multi-story building. This work will involve the removal and replacement of all damaged brick, construction of a brick expansion joint and installation of a vertical brick expansion joint to allow differential movement between the two walls and possible helical anchors to tie the brick to the inner wythe block at the new vertical joint.
- The second item will require the removal and replacement of the chimney cap and repairs to any damaged brick below the chimney cap.
- The canopy repairs will require the removal of all loose concrete, cleaning rust from the reinforcing steel, reattaching the reinforcing steel to the concrete slab and covering the damaged area with a cementitious repair product. The top of the canopy must be covered with a waterproof roofing material to seal the concrete from water intrusion.
- Repoint the mortar joints to prevent further water damage to the mortar joints and brick.

Summary

Our structural review of the building is based only on the areas which were not concealed by exterior grades, slabs, interior finishes or other obstructions. Other recommended repairs and maintenance procedures should be implemented to eliminate possible future damage to the structure.



REPORT
FOR
HAZARDOUS MATERIALS IDENTIFICATION
SURVEY
AT THE
SHARON TOWN HALL
SHARON, MA

Project Number: 215 358.00

Survey Dates: October 1-2, 2015

STUDY CONDUCTED BY:

Universal Environmental Consultants 12 Brewster Road Framingham, Massachusetts



October 7, 2015

Mr. Mike McKeon Kaestle Boos Associates, Inc. 325 Sharon Boulevard, Suite 100 Sharon, MA 02035

Reference: <u>Hazardous Materials Study</u>

Sharon Town Hall, Sharon, MA

Dear Mr. McKeon:

Thank you for the opportunity for Universal Environmental Consultants (UEC) to provide professional services.

Enclosed please find the final report for the Identification Survey for accessible Asbestos Containing Materials and other hazardous materials at the Sharon Town Hall, Sharon, MA.

Please do not hesitate to contact me at (508) 628-5486 if you have any questions.

Very truly yours,

Universal Environmental Consultants

Ammar Dieb

President

UEC:\215 358\Report.DOC

Enclosure

1.0 INTRODUCTION:

Universal Environmental Consultants (UEC) has been providing comprehensive asbestos services since 2001 and has completed projects throughout New England. We have completed projects for a variety of clients including commercial, industrial, municipal, and public and private schools. We maintain appropriate asbestos licenses and staff with a minimum of fifteen years of experience.

UEC was contracted by Kaestle Boos Associates, Inc. to conduct a determination survey for accessible Asbestos Containing Materials (ACM) and other hazardous materials at the Sharon Town Hall, Sharon, MA. The survey was not comprehensive and should not be used to demolish the town hall. Additional testing including destructive sampling would be required.

The scope of work under this scope included the inspection of accessible ACM, collection of bulk samples from materials suspected to contain asbestos, determination of types of ACM found and cost estimates for remediation.

Bulk samples analyses for asbestos were performed using the standard Polarized Light Microscopy (PLM) in accordance with EPA standard. Bulk samples were collected by a Massachusetts licensed asbestos inspector Leonard J. Busa (AI-030673) and analyzed by a Massachusetts licensed laboratory Asbestos Identification Laboratory, Woburn, MA.

Samples results are attached.

2.0 SAMPLING:

The regulations for asbestos inspection are based on representative sampling. It would be impractical and costly to sample all materials in all areas. Therefore, representative samples of each homogenous area were collected and analyzed or assumed.

All suspect materials were grouped into homogenous areas. By definition a homogenous area is one in which the materials are evenly mixed and similar in appearance and texture throughout. A homogeneous area shall be determined to contain asbestos based on findings that the results of at least one sample collected from that area shows that asbestos is present in an amount greater than 1 percent in accordance with Environmental Protection Agency (EPA) regulations. However, all suspect materials that contain any amount of asbestos must be considered asbestos if it is scheduled to be removed per the Department of Environmental Protection (DEP) regulations.

Number of Samples Collected

Sixty three (63) bulk samples were collected from materials suspected of containing asbestos, including:

Type and Location of Material

- 1. Grey sink damproofing at kitchen
- 2. Grey sink damproofing at kitchen
- 3. Hard joint insulation at boiler room
- 4. Hard joint insulation at boiler room
- 5. Hard joint insulation above ceiling at committee room
- 6. Hard joint insulation above ceiling at basement hallway
- 7. Hard joint insulation above ceiling at basement hallway
- 8. Hard joint insulation above ceiling at basement hallway
- 9. Black glue in fiberglass insulated pipe above ceiling at basement hallway
- 10. Black glue in fiberglass insulated pipe above ceiling at basement hallway

- 11. Joint compound at committee room
- 12. Joint compound at committee room
- 13. Rough ceiling plaster at boiler room
- 14. Rough ceiling plaster at boiler room
- 15. Rough ceiling plaster at boiler room
- 16. Concrete ceiling deck at basement hallway
- 17. Paper blanket for concrete ceiling deck at basement hallway
- 18. Concrete ceiling deck at basement civil defense
- 19. Paper blanket for concrete ceiling deck at basement civil defense
- 20. White ceiling deck at second floor hallway
- 21. White ceiling deck at second floor hallway
- 22. 2' x 4' Suspended acoustical ceiling tile at town administrator
- 23. 2' x 4' Suspended acoustical ceiling tile at lobby
- 24. 2' x 4' Suspended acoustical ceiling tile at payroll
- 25. 2' x 4' Suspended acoustical ceiling tile type II at hallway by IT
- 26. 2' x 4' Suspended acoustical ceiling tile type II at second floor
- 27. Smooth hard ceiling plaster at second floor janitor closet
- 28. Smooth hard ceiling plaster at first floor bathroom
- 29. Smooth hard wall plaster at computer room
- 30. Linoleum floor covering type I at lobby
- 31. Adhesive for linoleum floor covering type I at lobby
- 32. Linoleum floor covering type I at lobby
- 33. Adhesive for linoleum floor covering type I at lobby
- 34. Glazing caulking for interior window within door at basement stairwell
- 35. Glazing caulking for interior window within door at basement stairwell
- 36. Interior window glazing caulking at stairwell
- 37. Interior window glazing caulking at stairwell
- 38. Linoleum floor covering type II at side entrance hallway
- 39. Linoleum floor covering type II at side entrance hallway
- 40. Adhesive for linoleum floor covering type II at side entrance hallway
- 41. Adhesive for linoleum floor covering type II at side entrance hallway
- 42. 9"x 9" Vinyl floor tile at first floor computer room
- 43. Mastic for 9"x 9" vinyl floor tile at first floor computer room
- 44. 9"x 9" Vinyl floor tile at basement custodian room
- 45. Mastic for 9"x 9" vinyl floor tile at basement custodian room
- 46. Mastic for 9"x 9" vinyl floor tile at second floor hallway
- 47. Mastic for 9"x 9" vinyl floor tile at tax collector hallway
- 48. Mastic for 9"x 9" vinyl floor tile at second floor landing
- 49. Tan 12" x 12" vinyl floor tile at first floor lobby
- 50. Mastic for tan 12" x 12" vinyl floor tile at first floor lobby
- 51. Tan 12" x 12" vinyl floor tile at first floor lobby
- 52. Mastic for tan 12" x 12" vinyl floor tile at first floor lobby
- 53. Exterior window framing caulking
- 54. Exterior window framing caulking
- 55. Exterior door framing caulking
- 56. Exterior door framing caulking
- 57. Exterior unit vent grille caulking
- 58. Exterior unit vent grille caulking
- 59. Exterior assumed damproofing on foundation walls
- 60. Exterior assumed damproofing on foundation walls
- 61. Exterior flashing protruding from interior wall
- 62. Exterior flashing protruding from interior wall
- 63. Exterior flashing protruding from interior wall

Sample Results

Type and Location of Material

Sample Result

1.	Grey sink damproofing at kitchen	No Asbestos Detected
2.	Grey sink damproofing at kitchen	No Asbestos Detected
3.	Hard joint insulation at boiler room	30% Asbestos
3. 4.	Hard joint insulation at boiler room	30% Asbestos
4 .	Hard joint insulation above ceiling at committee room	No Asbestos Detected
5. 6.	Hard joint insulation above ceiling at basement hallway	No Asbestos Detected
7.	Hard joint insulation above ceiling at basement hallway	No Asbestos Detected
7. 8.	Hard joint insulation above ceiling at basement hallway	No Asbestos Detected
	Black glue in fiberglass insulated pipe above ceiling at basement hallway	No Asbestos Detected
9. 10		No Asbestos Detected
	Black glue in fiberglass insulated pipe above ceiling at basement hallway	No Asbestos Detected
	Joint compound at committee room Joint compound at committee room	No Asbestos Detected
	·	No Asbestos Detected
	Rough ceiling plaster at boiler room Rough ceiling plaster at boiler room	No Asbestos Detected
	Rough ceiling plaster at boiler room	No Asbestos Detected
	Concrete ceiling deck at basement hallway	No Asbestos Detected
	Paper blanket for concrete ceiling deck at basement hallway	No Asbestos Detected
	Concrete ceiling deck at basement civil defense	No Asbestos Detected
	Paper blanket for concrete ceiling deck at basement civil defense	No Asbestos Detected
	White ceiling deck at second floor hallway	No Asbestos Detected
	White ceiling deck at second floor hallway	No Asbestos Detected
	2' x 4' Suspended acoustical ceiling tile at town administrator	No Asbestos Detected
	2' x 4' Suspended acoustical ceiling tile at lobby	No Asbestos Detected
	2' x 4' Suspended acoustical ceiling tile at payroll	No Asbestos Detected
	2' x 4' Suspended acoustical ceiling tile at payron 2' x 4' Suspended acoustical ceiling tile type II at hallway by IT	No Asbestos Detected
	2' x 4' Suspended acoustical ceiling tile type II at rianway by 11	No Asbestos Detected
	Smooth hard ceiling plaster at second floor janitor closet	No Asbestos Detected
	Smooth hard ceiling plaster at first floor bathroom	No Asbestos Detected
	Smooth hard wall plaster at computer room	No Asbestos Detected
	Linoleum floor covering type I at lobby	No Asbestos Detected
	Adhesive for linoleum floor covering type I at lobby	No Asbestos Detected
	Linoleum floor covering type I at lobby	No Asbestos Detected
	Adhesive for linoleum floor covering type I at lobby	No Asbestos Detected
	Glazing caulking for interior window within door at basement stairwell	2% Asbestos
	Glazing caulking for interior window within door at basement stairwell	2% Asbestos
	Interior window glazing caulking at stairwell	5% Asbestos
	Interior window glazing caulking at stairwell	5% Asbestos
	Linoleum floor covering type II at side entrance hallway	20% Asbestos
	Linoleum floor covering type II at side entrance hallway	30% Asbestos
	Adhesive for linoleum floor covering type II at side entrance hallway	No Asbestos Detected
	Adhesive for linoleum floor covering type II at side entrance hallway	No Asbestos Detected
	9"x 9" Vinyl floor tile at first floor computer room	10% Asbestos
	Mastic for 9"x 9" vinyl floor tile at first floor computer room	No Asbestos Detected
	9"x 9" Vinyl floor tile at basement custodian room	15% Asbestos
	Mastic for 9"x 9" vinyl floor tile at basement custodian room	No Asbestos Detected
	Mastic for 9"x 9" vinyl floor tile at second floor hallway	No Asbestos Detected
	Mastic for 9"x 9" vinyl floor tile at tax collector hallway	No Asbestos Detected
	Mastic for 9"x 9" vinyl floor tile at second floor landing	No Asbestos Detected
	Tan 12" x 12" vinyl floor tile at first floor lobby	2% Asbestos
	Mastic for tan 12" x 12" vinyl floor tile at first floor lobby	No Asbestos Detected
55.		

51. Tan 12" x 12" vinyl floor tile at first floor lobby	2% Asbestos
52. Mastic for tan 12" x 12" vinyl floor tile at first floor lobby	No Asbestos Detected
53. Exterior window framing caulking	No Asbestos Detected
54. Exterior window framing caulking	No Asbestos Detected
55. Exterior door framing caulking	No Asbestos Detected
56. Exterior door framing caulking	No Asbestos Detected
57. Exterior unit vent grille caulking	No Asbestos Detected
58. Exterior unit vent grille caulking	No Asbestos Detected
59. Exterior assumed damproofing on foundation walls	No Asbestos Detected
60. Exterior assumed damproofing on foundation walls	No Asbestos Detected
61. Exterior flashing protruding from interior wall	10% Asbestos
62. Exterior flashing protruding from interior wall	10% Asbestos
63. Exterior flashing protruding from interior wall	5% Asbestos

Observations and Conclusions:

The condition of ACM is very important. ACM in good condition does not present a health issue unless it is disturbed. Therefore, it is not necessary to remediate ACM in good condition unless it will be disturbed through renovation, demolition or other activity.

- 1. Hard joint insulation was found to contain asbestos.
- 2. Glazing caulking for interior window within door was found to contain asbestos.
- 3. Interior window glazing caulking was found to contain asbestos.
- 4. Linoleum floor covering type II was found to contain asbestos.
- 5. 9"x 9" Vinyl floor tile was found to contain asbestos. Most of the ACM was found under carpet.
- 6. Tan 12" x 12" vinyl floor tile was found to contain asbestos.
- 7. Thru-wall flashing was found to contain asbestos. The demolition contractor will have to segregate the ACM from non-ACM building surfaces for proper disposal in an EPA approved landfill that does not recycle. A non-traditional abatement plan would have to be prepared and submitted to the DEP for approval.
- 8. Transite panels were found above select doors.
- 9. All remaining suspect materials were found not to contain asbestos.
- 10. Underground sewer pipes were assumed to contain asbestos.
- 11. Damproofing on foundation walls at the original building was assumed to contain asbestos. The demolition contractor will have to segregate the ACM from non-ACM building surfaces for proper disposal in an EPA approved landfill that does not recycle. A non-traditional abatement plan would have to be prepared and submitted to the DEP for approval.
- 12. Roofing was assumed to contain asbestos. However, roofing does not have to be removed by a licensed asbestos abatement contractor. Roofing material does not have to be removed by a licensed asbestos contractor. However, the General Contractor must comply with OSHA regulation during demolition and with state regulations for proper disposal. A non-traditional abatement plan would have to be prepared and submitted to the DEP for approval.
- 13. All other suspect materials were found not to contain asbestos. Hidden ACM may be found during renovation and demolition activities.

Polychlorinated Biphenyls (PCB's)-Electrical Equipment and Light Fixtures: Observations and Conclusions

Visual inspection of various equipments such as light fixtures, thermostats, exit signs and switches was performed for the presence of PCB's and mercury. Ballasts in light fixtures were assumed not to contain PCB's since there were labels indicating that "No PCB's" was found. Tubes in light fixtures, thermostats, signs and switches were assumed to contain mercury. It would be very costly to test those equipments and dismantling would be required to access. Therefore, the above mentioned equipments should be disposed in an EPA approved landfill as part of the demolition project.

PCB's in Caulking:

PCB's are manmade chemicals that were widely produced and distributed across the country from the 1950s to 1977 until the production of PCB's was banned by the US Environmental Protection Agency (EPA) law which became effective in 1978. PCB's are a class of chemicals made up of more than 200 different compounds. PCB's are non-flammable, stable, and good insulators so they were widely used in a variety of products including: electrical transformers and capacitors, cable and wire coverings, sealants and caulking, and household products such as television sets and fluorescent light fixtures. Because of their chemical properties, PCB's are not very soluble in water and they do not break down easily in the environment. PCB's also do not readily evaporate into air but tend to remain as solids or thick liquids. Even though PCB's have not been produced or used in the country for more than 30 years, they are still present in the environment in the air, soil, and water and in our food. EPA requires that all construction waste including caulking be disposed as PCB's level exceed 50 mg/kg (ppm). An abatement plan might also be required.

Observations and Conclusions:

Building materials and caulking were assumed to contain PCB's.

Lead Based Paint (LBP):

Observations and Conclusions

LBP was assumed to exit on painted surfaces. A town hall is not considered a regulated facility. All LBP activities performed, including waste disposal, should be in accordance with applicable Federal, State, or local laws, ordinances, codes or regulations governing evaluation and hazard reduction. In the event of discrepancies, the most protective requirements prevail. These requirements can be found in OSHA 29 CFR 1926-Construction Industry Standards, 29 CFR 1926.62-Construction Industry Lead Standards, 29 CFR 1910.1200-Hazards Communication, 40 CFR 261-EPA Regulations. According to OSHA, any amount of LBP triggers compliance.

3.0 COST ESTIMATES:

The cost includes removal and disposal of all accessible ACM, other hazardous material and an allowance for removal of inaccessible or hidden ACM that may be found during renovation or demolition projects.

Location	Material	Approximate Quantity	Cost Estimate (\$)
Various Locations	9"x 9" Vinyl Floor Tile Under Carpet Interior Windows Interior Doors Transite Panels over Doors Hard Joint Insulation Hidden Hard Joint Insulation Miscellaneous Hazardous Materials Tubes in Light Fixtures	7,500 SF 35 Total 22 Total 6 Total 200 Total Unknown Unknown Unknown	37,500.00 3,500.00 2,200.00 600.00 6,000.00 5,000.00 15,000.00
Boiler Room	Hard Joint Insulation	30 Total	1,500.00
Main Entrance Lobby	Tan 12" x 12 Vinyl Floor Tile	350 SF	3,500.00
Side Entrance Hallway	Linoleum Floor Covering	35 SF	350.00
Exterior	Roofing Materials Transite Sewer Pipes Thru-Wall Flashing Damproofing on Foundation Walls	Unknown Unknown ¹ Unknown ¹ Unknown ¹	25,000.00 10,000.00 25,000.00 100,000.00

Location	Material	Approximate Quantity	Cost Estimate (\$)
Estimated costs fo	r PCB's Remediation r NESHAP Inspection and Testing Se r Design, Construction Monitoring		10,000.00 7,500.00 32,350.00
		Total:	295,000.00

^{1:} Part of total demolition.

4.0 DESCRIPTION OF SURVEY METHODS AND LABORATORY ANALYSES:

Asbestos samples were collected using a method that prevents fiber release. Homogeneous sample areas were determined by criteria outlined in EPA document 560/5-85-030a. Bulk material samples were analyzed using PLM and dispersion staining techniques with EPA method 600/M4-82-020.

Inspected By:

Leonard J. Busa

Asbestos Inspector

Prepared by:

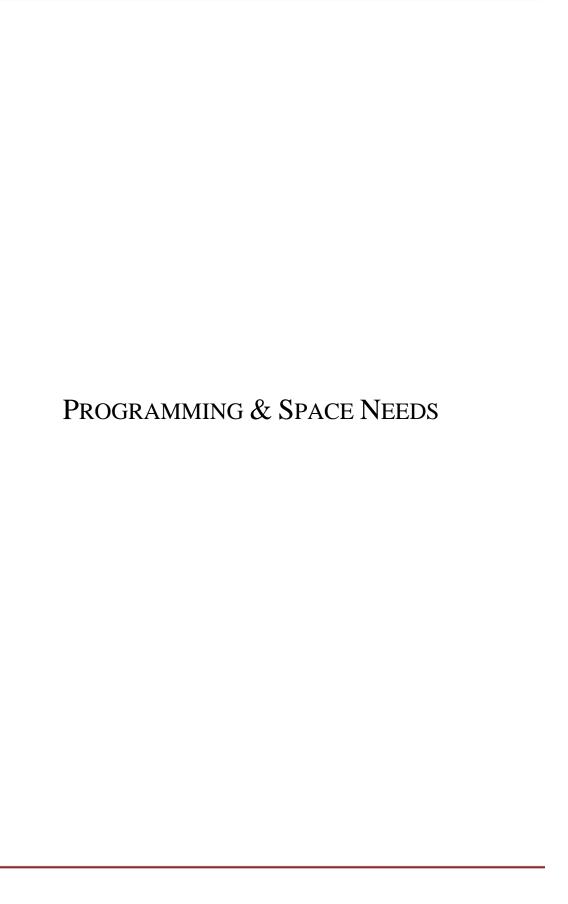
Ammar M, Dieb

President

5.0 LIMITATIONS AND CONDITIONS:

This report has been completed based on visual and physical observations made and information available at the time of the site visits, as well as an interview with the Owner's representatives. This report is intended to be used as a summary of available information on existing conditions with conclusions based on a reasonable and knowledgeable review of evidence found in accordance with normally accepted industry standards, state and federal protocols, and within the scope and budget established by the client. Any additional data obtained by further review must be reviewed by UEC and the conclusions presented herein may be modified accordingly.

This report and attachments, prepared for the exclusive use of Owner for use in an environmental evaluation of the subject site, are an integral part of the inspections and opinions should not be formulated without reading the report in its entirety. No part of this report may be altered, used, copied or relied upon without prior written permission from UEC, except that this report may be conveyed in its entirety to parties associated with Owner for this subject study.



Introduction

Kristen Smith, Interior Space Planner for Kaestle Boos Associates, Inc. met with Town staff over two days in order to discuss operations and adjacencies as well as to assess space needs for individual Town Departments to be housed in the facility. The draft Space Needs Program was then circulated for comments and discussed with the Study Work Group. Specific meeting dates and staff members interviewed were as follows;

September 24, 2015

- Marlene Chused, Town Clerk
- Don Hillegass, IT director
- Fred Turkington, Town Administrator
- Lauren Barnes, Assistant to the Town Administrator
- Alicia McOsker, Treasurer
- Cindy Doherty, Finance Director
- Mark Mazur, Town Assessor

October 7, 2015

- Beverly Anderson, Health Administrator
- Sheila Miller, Public Health Nurse





December 3, 2015

Preliminary Space Needs Program

<u> </u>	~puo.		-	- 6		
Area/Room Title	Rm.Type	Occup's	No.Rms.	Area	Subtotal	Tota
Public Area						
Vestibule		0	1	70 sf	70 sf	
Lobby		0	1	600 sf	600 sf	
Public Toilets	7.1	1	2	65 sf	130 sf	
Public Area Subtotal	! :			_		800 s
Accounting Department						
Window Station (Public)		0	1	25 sf	25 sf	
Accounting Department Office	2.4	4	1	400 sf	400 sf	
Window Station (Staff)	•	1	1	25 sf	25 sf	
File Storage Area (8 lateral files)	6.3	0	1	80 sf	80 sf	
Work Area	6.2	0	1	60 sf	60 sf	
Small Meeting Room/ Auditor's Room	1.2	1	1	120 sf	120 sf	
Archival Storage	6.6	0	1	150 sf	150 sf	
Supply Closet		0	1	25 sf	25 sf	
Coat Closet		0	1	10 sf	10 sf	
Department Subtotal	:					895 8
Assessing Department						
Window Station (Public)		0	1	25 sf	25 sf	
Assessing Department Office	2.4	2	1	200 sf	200 sf	
Window Station (Staff)		1	1	25 sf	25 sf	
File Storage Area (8 vertical files)	6.3	0	1	50 sf	50 sf	
Work Area	6.2	0	1	60 sf	60 sf	
Director of Assessing's Office	1.4	1	1	150 sf	150 sf	
Archival Storage	6.7	1	1	200 sf	200 sf	
Supply Closet	0.,	0	1	25 sf	25 sf	
Coat Closet		0	1	10 sf	10 sf	
Department Subtotal	:					745 s
Tresurer & Tax Collection Departments						
Window Station (Public)		0	1	40 sf	40 sf	
Freasurer & Tax Collector Dept. Office	2.4	3	1	300 sf	300 sf	
Window Station (Staff)		1	2	25 sf	50 sf	
File Storage Area (8 vertical files)	6.3	0	1	50 sf	50 sf	
Work Area	6.2	0	1	60 sf	60 sf	
Γreasuror/Tax Collector's Office	1.4	1	1	150 sf	150 sf	
Assistant Treasuror/Tax Collector's Office	1.2	1	1	130 sf	130 sf	
Payroll Office	2.4	2	1	200 sf	200 sf	
Archival Storage	6.6	0	1	150 sf	150 sf	
Vault Storage	6.4	0	1	100 sf	100 sf	
Supply Closet	3.4	0	1	25 sf	25 sf	
Coat Closet		0	1	10 sf	10 sf	
Department Subtotal				10 51	10 01	1255 s

Page 1 of 3



December 3, 2015

Preliminary Space Needs Program

				- 0		
Area/Room Title	Rm.Type	Occup's	No.Rms.	Area	Subtotal	Total
Town Clerk						
Window Station (Public)		0	1	25 sf	25 sf	
Town Clerk Department Office	2.5	2	1	240 sf	240 sf	
Window Station (Staff)	,	2	1	50 sf	50 sf	
File Storage Area (8 lateral files)	6.3	0	1	80 sf	80 sf	
Town Clerk's Office	1.4	1	1	150 sf	150 sf	
Work/Project Room	5.6	0	1	140 sf	140 sf	
Vault Storage (current & archieval files)	6.6	0	1	150 sf	150 sf	
Election Equipment Storage	4.4	0	1	200 sf	200 sf	
Supply Closet	1.1	0	1	25 sf	25 sf	
Coat Closet		0	1	10 sf	10 sf	
Department Subtotal:		-				1070 sf
•						,
Information Technology						
Network Room/ Work Room		0	1	210 sf	210 sf	
IT Office	2.5	2	1	240 sf	240 sf	
Supplies/ Equipment Storage		0	1	80 sf	8o sf	
Information Technology Subtotal:						530 sf
Town Administration						
Town Adminstration Department Office	2.4	2	1	240 sf	240 sf	
Reception/ Waiting Area		3	1	40 sf	40 sf	
File Storage Area (10 lateral files)	6.4	0	1	100 sf	100 sf	
Town Manager's Office	1.5	1	1	175 sf	175 sf	
Large Conference Room	3.1	14	1	280 sf	280 sf	
Archival Storage	6.6	0	1	150 sf	150 sf	
Supply Closet	0.0	0	1	25 sf	25 sf	
Coat Closet		0	1	10 sf	10 sf	
Department Subtotal:						1020 sf
D. I. CIV. Inl. / D. I.I. AV						
Board of Health/ Public Nurse		-		0.5	0.5	
Reception/ Waiting Area		6	1	80 sf	80 sf	
Board of Health Office	2.4	1	1	100 sf	100 sf	
File Storage Area (4 vertical files)	6.1	0	1	40 sf	40 sf	
Work Area	6.2	0	1	60 sf	60 sf	
Director of Health Office	1.4	1	1	150 sf	150 sf	
Plan Review Area	3.1	2	1	40 sf	40 sf	
Public Nurse Office	1.1	1	1	100 sf	100 sf	
Exam Area	13.4	0	1	100 sf	100 sf	
Archival Storage	6.4	0	1	100 sf	100 sf	
Equipment Storage	6.3	0	1	100 sf	100 sf	
Supply Closet		0	1	25 sf	25 sf	
Coat Closet		0	1	10 sf	10 sf	0.6 =
BoH-Nurse Subtotal:						905 sf

Kaestle Boos Associates, Inc. Page 2 of 3 55



December 3, 201

Preliminary Space Needs Program

	_			\mathbf{C}		
Area/Room Title	Rm.Type	Occup's	No.Rms.	Area	Subtotal	Tota
Staff Services						
Break Room	3.2	4	1	100 sf	100 sf	
Kitchen Area		0	1	8o sf	8o sf	
Central Copy Room	6.4	0	1	100 sf	100 sf	
Central Storage Room	4.3	0	1	150 sf	150 sf	
Staff Toilets	7.1	1	2	65 sf	130 sf	
Staff Services Subtotal:						560 sf
Net to Gross Adjustment						
Total Net Area:						7,780 sf
Net to Gross Adjustment (Net Area x 0.50)						3,890 sf
Gross Area Total:						11,670 sf

Addition & Renovation Option

Conceptual Finish Schedule					October 13, 2015
Area/Room	Floor	Base	Walls	Ceiling	Comments
Public Area					
Vestibule	MAT	RB	Р	GYP	wood trim; wainscot
Lobby	RT-2	RB	P EP/	ACT/GYP	Gyp. at soffits; wood trim; wainscot
Public Toilet	CT-1	CTB-1	CWT-1	ACT	full ht CWT at wet wall
Accounting Department					
Window Station(Public)	RT-1	RB	Р	ACT/GYP	Gyp. at soffits
]
Mindow Ctation (Private)	CDTT			A O.T.	Plastic Laminate Countertop
Window Station(Private)	CPTT	RB	P	ACT	w/ sliding transaction window
Accounting Department Office	CPTT	RB	P	ACT	4
File Storage Area	CPTT	RB	P	ACT	1
Work Area	CPTT	RB	P	ACT	1
Meeting Room/Auditors Room	CPTT	RB	P	ACT	1
Archival Storage	CC-S	RB	Р	ACT	1
Supply Closet Coat Closet	CPTT CPTT	RB	P P	ACT	1
Coat Closet	CPTT	RB	Р	ACT	
Assessing Department					
Window Station(Public)	RT-1	RB	Р	ACT/GYP	Gyp. at soffits
Window Station (Private)	CPTT	DD.		ACT	Plastic Laminate Countertop
Window Station(Private)	CPTT	RB	P P	ACT	w/ sliding transaction window
Assessing Department Office	CPTT	RB RB	P	ACT ACT	1
File Storage Area Work Area	CPTT	RB	P	ACT	1
Director of Assessing Office	CPTT	RB	P	ACT	1
Archival Storage	CC-S	RB	P	ACT	1
Supply Closet	CPTT	RB	P	ACT	1
Coat Closet	CPTT	RB	P	ACT	1
	-	I KD	'	AOT	1
Treasurer & Tax Collection Departr				T	_
Window Station(Public)	RT-1	RB	Р	ACT/GYP	Gyp. at soffits
					Plastic Laminate Countertop
Window Station(Private)	CPTT	RB	Р	ACT	w/ sliding transaction window
Assessing Department Office	CPTT	RB	P	ACT	1
File Storage Area	CPTT	RB	P	ACT	1
Work Area	CPTT	RB	P	ACT	1
Treasurer & Tax Collection Office	CPTT	RB	P	ACT	1
Assistant Treasurer & Tax Collection Office	CPTT	RB	P	ACT	1
Payroll	CPTT	RB	Р	ACT	1
Vault Storage	RT-1	RB	Р	ACT	1
Archival Storage	CC-S	RB	Р	ACT	1
Supply Closet	CPTT	RB	Р	ACT	1

Addition & Renovation Option

Conceptual Finish Schedule					October 13, 2015
Area/Room	Floor	Base	Walls	Ceiling	Comments
Coat Closet	CPTT	RB	Р	ACT	
Town Clerk					
Window Station(Public)	RT-1	RB	Р	ACT/GYP	Gyp. at soffits
Window Station(Private)	CPTT	RB	Р	ACT	Plastic Laminate Countertop w/ sliding transaction window
Town Clerk Department Office	CPTT	RB	P	ACT	
File Storage Area Work /Project Room	CPTT	RB RB	<u>Р</u> Р	ACT ACT	1
Town Clerks Office	CPTT	RB	P	ACT	1
Vault Storage	RT-1	RB	P	ACT	1
Election Equipment Storage	CPTT	RB	Р	ACT	
Archival Storage	CC-S	RB	Р	ACT	
Supply Closet	RT-1	RB	Р	ACT	
Coat Closet	RT-1	RB	Р	ACT	J
Information Technology					
Network Room/Work Room	CPTT	RB	Р	ACT	
IT Office	CPTT	RB	Р	ACT	
Supplies/Equipment Storage	CC-S	RB	Р	ACT	
Town Administration					
Waiting Area	CPTT	RB	Р	ACT	
Town Administration Department Office	CPTT	RB	Р	ACT	
File Storage Area	CPTT	RB	Р	ACT	
Town Managers Office	CPTT	RB	Р	ACT	
Large Conference Room	CPTT	WDB	Р	ACT/GYP	wood trim; wainscot; Gyp. at soffits wood trim; wainscot; Gyp. at
Town Selectman's Room	CPTT	WDB	Р	ACT/GYP	
Archival Storage	CC-S	RB	Р	ACT	
Supply Closet	CPTT	RB	Р	ACT	
Coat Closet	CPTT	RB	Р	ACT	
Board of Health/Public Nurse					
Window Station(Public)	RT-1	RB	Р	ACT/GYP	Gyp. at soffits
					Plastic Laminate Countertop
Window Station(Private)	CPTT	RB	Р	ACT	w/ sliding transaction window
Department of Health Office	CPTT	RB	P	ACT	
File Storage Area	CPTT	RB	Р	ACT	1
Work Area	CPTT	RB	Р	ACT	
Director of Health Office	CPTT	RB	Р	ACT	
Public Nurse Office	RT-1	RB	Р	ACT	
Exam Room	RT-1	RB	P	ACT	
Archival Storage	CC-S	RB	Р	ACT	l

Addition & Renovation Option

Conceptual Finish Schedule					October 13, 2015
Area/Room	Floor	Base	Walls	Ceiling	Comments
Equipment Storage	CC-S	RB	Р	ACT	
Supply Closet	CPTT	RB	Р	ACT	
Coat Closet	CPTT	RB	Р	ACT	
Circulation					
Vestibule	MAT	RB	Р	GYP	
Stairs	RT-3	RB	Р	ACT/GYP	handrails
Corridors	RT-1	RB	Р	ACT	plastic crashrails; corner guards; wainscot
Building Support					
Janitorial	CT-2	СТВ	CT/ EP	ACT	CWT wainscot at sink
Mechanical/ Electrical	CC-S	RB	Р	ACT	
Breakroom/ Copy Room	RT-1	RB	P/CWT-2	ACT/GYP	Gyp. at soffits; Solid Surface Countertop; Ceramic Tile at Backsplash Only
Staff Toilets	CT-1	CTB-1	EP/ CWT-1	ACT	full ht CWT at wet wall

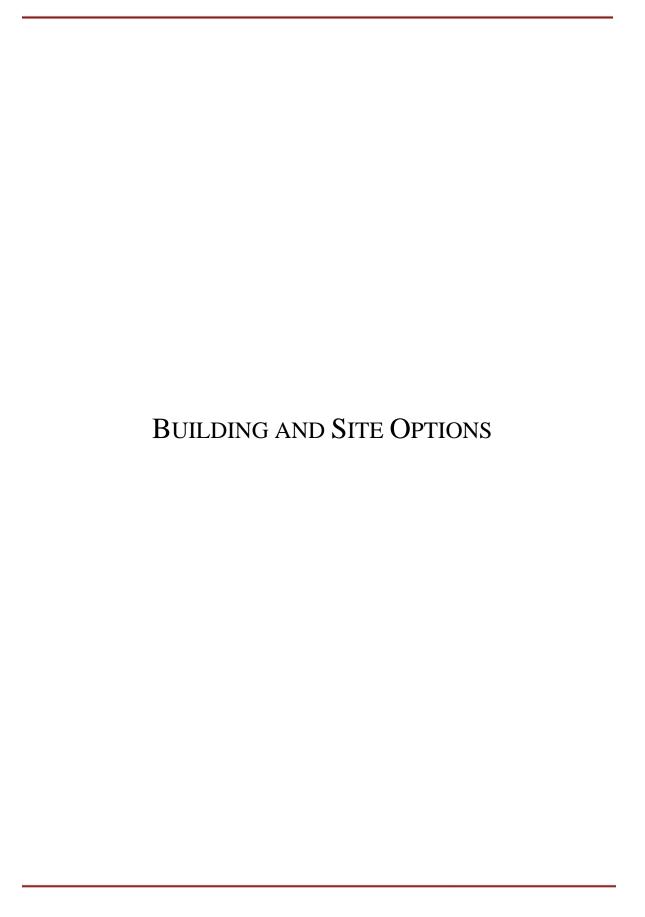
Leg	end

Staff Toilets **Unfinished Area**

Floor		Walls
CC-S	Sealed Concrete	CWT-1 Ceramic Wall Tile
CPTT	Carpet Tile	American Olean Bright & Matte Profiles
	Tandus (\$40-\$42/SY)	CWT-2 Ceramic Wall Tile
CT-1	Unglazed Ceramic Tile	American Olean Color Appeal
	American Olean Mosiac Tile	EP Epoxy Paint
MAT	Entrance Mat	Sherwin Williams
	Mats Inc. Journey Tile	P Paint
RT-1	Rubber Tile	Sherwin Williams
	Nora Nornament Satura	
RT-2	Rubber Tile	Ceilings
	Nora Nornament Grano	ACT Acoustic Ceiling Tile
RT-3	Stair Treads & Risers	Armstrong Optima
	Nora Nornament Round	GYP Gypsum Board Ceiling

Floor Base

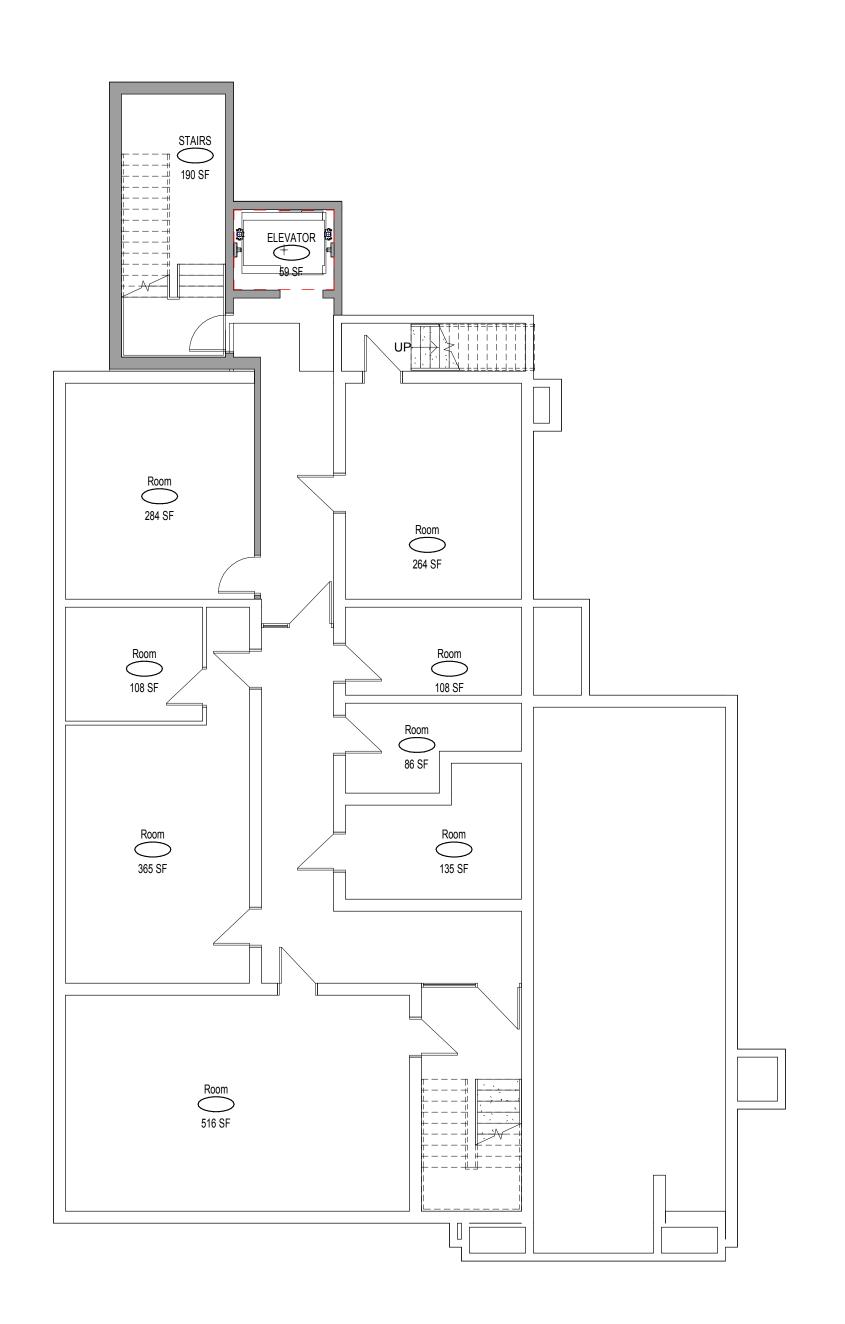
CTB	Ceramic Tile Base
	American Olean Bright & Matte Profiles
RB	Rubber Base Cove
,	Nora
WDB	Wood Base



Option 1

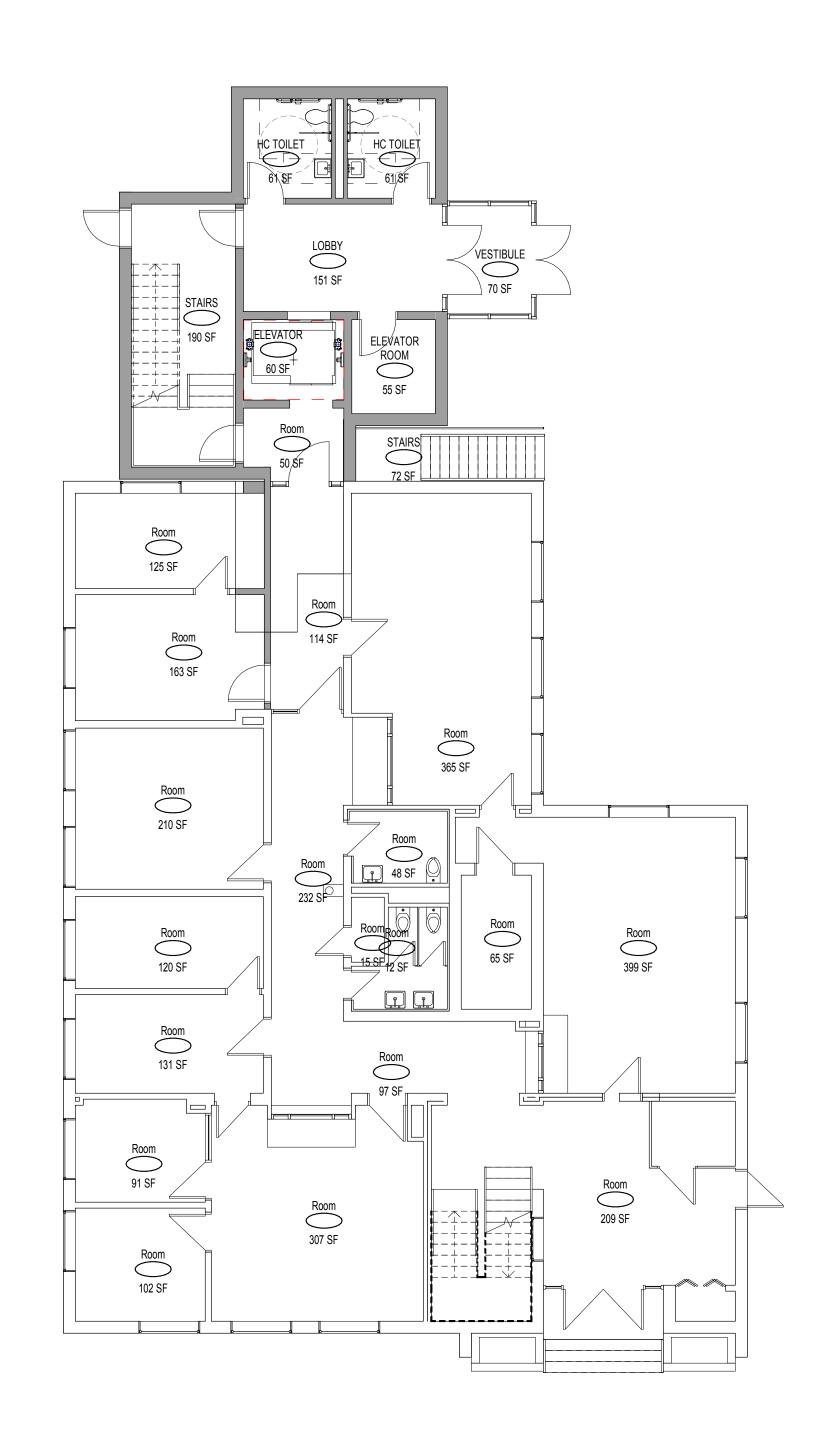
Handicap Accessibility Only

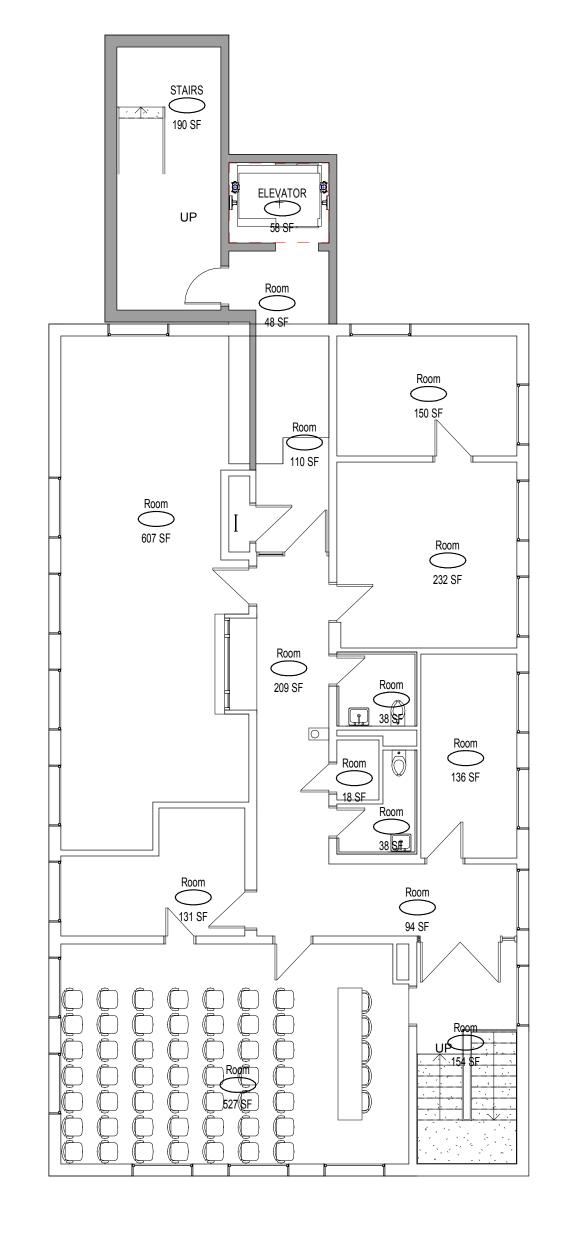
61



LOWER LEVEL NEW CONSTRUCTION

1/8" = 1'-0"





SECOND FLOOR NEW CONSTRUCTION

1/8" = 1'-0"

KAESTLE BOOS
associates, inc

416 Slater Road, P.O. Box 2590, New Britain, CT 06050-2590 Phone: 860-229-0361 Fax: 860-229-5303 325 Foxborough Boulevard, Suite 100, Foxborough, MA 02035 Phone: 508-549-9906 Fax: 508-549-9907

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> **REVISIONS** DESCRIPTION

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, AND GENERAL NOTES SEE SHEET R0.01



SHARON TOWN HALL OPTION 1

PROJECT ADDRESS

DRAWN BY: YM

FLOOR PLANS

DRAWING NO.: **A1.01**



SITE PLAN - OPTION 1 (ACCESSIBILITY ONLY)

SCALE: 1" = 40'

SHARON TOWN HALL STUDY

SHARON, MA

OCTOBER 30, 2015



015 @ COPYRIGHT KAESTLE BOOS ASSOC.. I



Opinion of Probable Cost Option 1: HC Acessibility Only

Description	Subtotals Tot. Comments
Construction Costs	
Site Work	\$66,900 Daedalus Estimate
New Construction (Stair/Elev./Lobby/Toilets) 2,163 SF	\$1,098,700 Daedalus Estimate
Renovation 9,457 SF	incl.above Daedalus Estimate
Hazmat Abatement Allowance	\$10,000 UEC Placeholder
HC Signage Allowance	\$10,000 Allowance
Min. Repairs at Fire Station for Temp use.	\$30,000 Allowance
Concept Level Estimating Contingency @ 15.0%	
Subtotal Direct Construction Costs:	: \$1,393,400
General Conditions & Overhead 12 months @ \$40,000	\$480,000
Insurance @ 1.40%	
Bonds @ 0.85%	
GC Fee (Profit) @ 5.00%	
Permit Fee @ 1.5%	Waived
Escalation (bid 3rd Quarter of 2016) @ 5.42%	\$109,000
Subtotal Construction Cost	\$2,120,500
Owner's Indirect Costs	. ,
Land Survey	\$7,000
Geotech (2 Borings)	\$7,200
Arch.& Eng.Fees	\$212,000
Project Management	\$95,000
Moving	\$20,000
Reproduction /Miscellaneous	\$5,000
Legal/Advertising	\$5,000
Material Testing	\$10,000
Owner's Contingency (10% of all costs)	\$248,300
Subtotal Indirect Costs:	\$609,500
Total Project Cost:	\$2,730,000

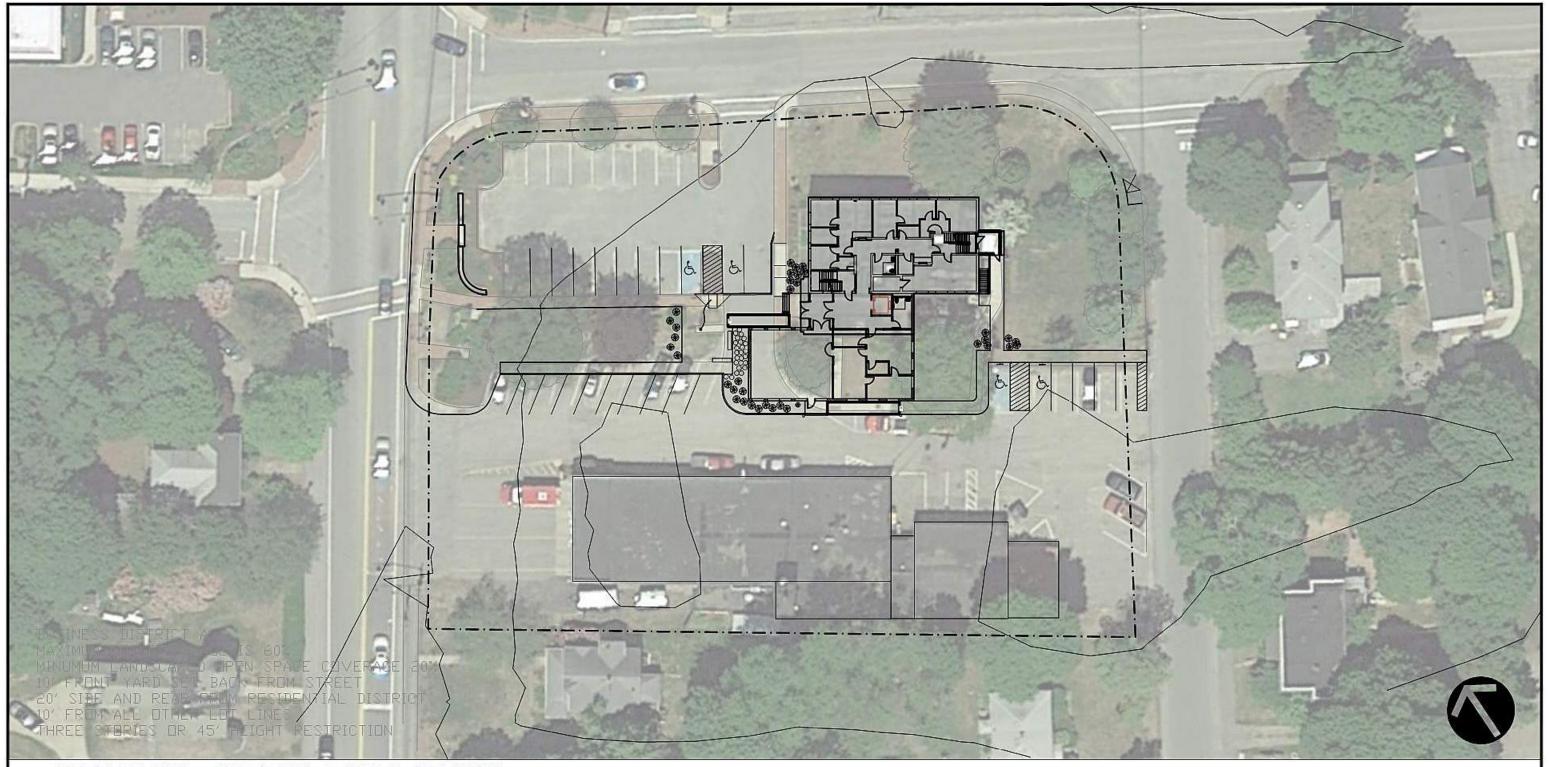
Note: This cost includes all reccomended upgrades identified in the Existing Conditions report.

Option 2

Addition and Renovation

- Floor Plans
- Site Plans
- Perspective
- Opinion of Probable Cost





SITE PLAN - OPTION 2 (ADD/RENO)

SCALE: 1" = 40'

SHARON TOWN HALL STUDY

SHARON, MA

OCTOBER 30, 2015

KAESTLE BOOS associates, inc





Opinion of Probable Cost Option 2: Addition-Renovation

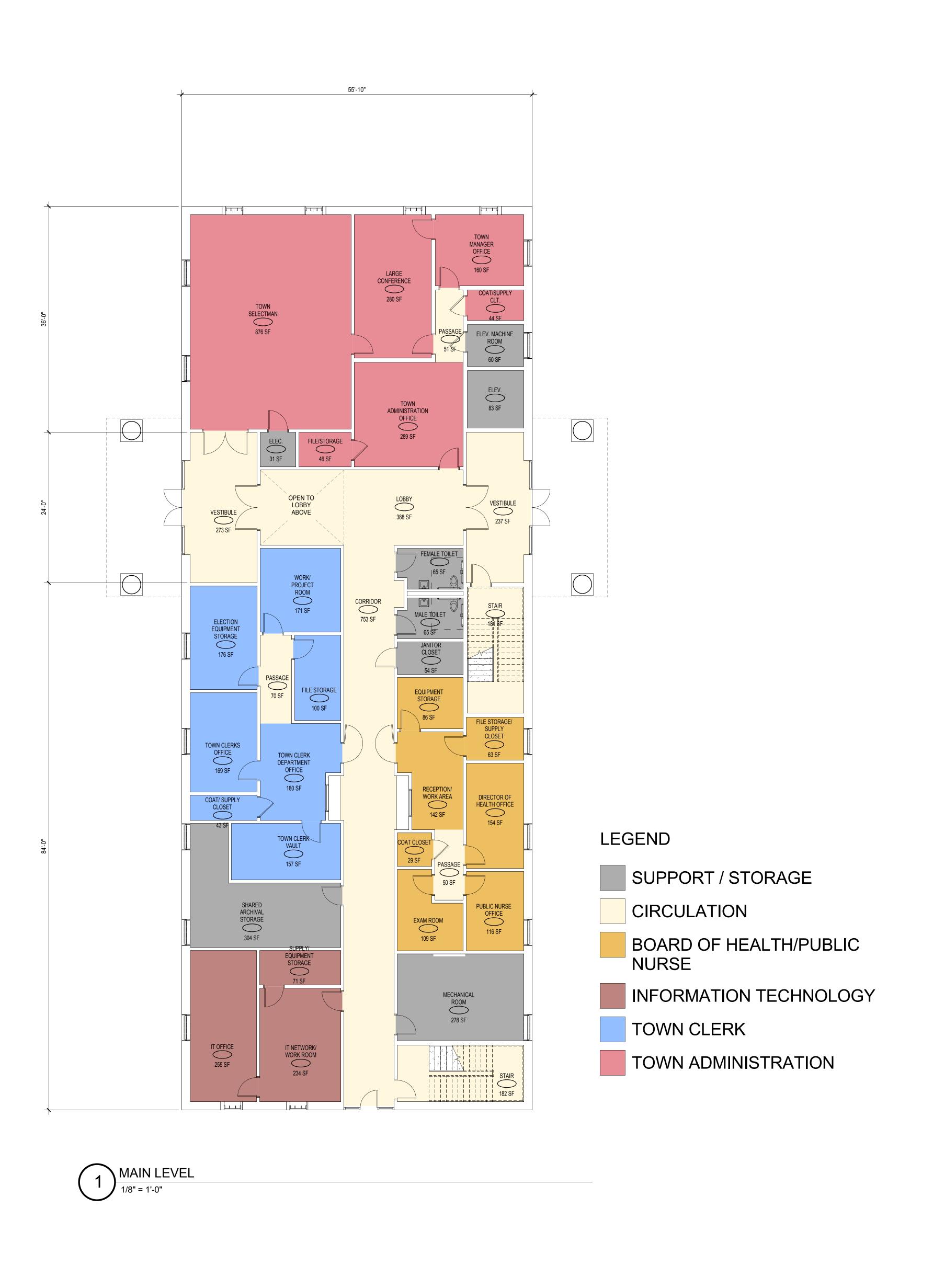
Description			Subtotals	Totals Comments	
Construction Costs					
Site Work			\$188,900	Daedalus Estimate	
Add/Reno Work (Construction) 13,638 SF			\$3,298,500	Daedalus Estimate	
Hazmat Abatement Allowance			\$195,000	UEC Estimate	
Repairs at Fire Station for Temp use and	\$200,000	Allowance			
Concept Level Estimating Contingency		@	15.0%	\$552,400	
Subtotal Dir	\$4,434,800				
General Conditions & Overhead	12 months	@	8.5%	\$377,000	
Insurance		@	1.40%	\$67,400	
Bonds		@	0.85%	\$41,500	
GC Fee (Profit)		@	5.00%	\$246,000	
Permit Fee		@	1.5%	Waived	
Escalation (bid 3rd Quarter of 2016)		@	5.42%	\$280,000	
Subtotal Construction Cost:				\$5,446,7	00
Owner's Indirect Costs					
Land Survey			\$7,000		
Geotech (6 Borings)			\$9,000		
Utility Backcharge			\$20,000		
Arch.& Eng.Fees			\$545,000		
Project Management			\$245,000		
Furniture & Equipment Allowance			\$75,000		
Moving			\$20,000		
Reproduction /Miscellaneous			\$5,000		
Legal/Advertising			\$5,000		
Material Testing			\$15,000		
Owner's Contingency (10% of all costs)				\$639,300	
- · · · · · · · · · · · · · · · · · · ·	Subtotal Indirect Costs:		\$1,585,3		
	Total Project Cost:			÷ -,,-	
				\$7,032,0	00

Note: This cost includes all reccomended upgrades identified in the Existing Conditions report.

Option 3

New Town Hall

- Floor Plans
- Site Plans
- Perspective
- Opinion of Probable Cost



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416 Slater Road, P.O. Box 2590, New Britain, CT 06050-2590 Phone: 860-229-0361 Fax: 860-229-5303

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DESCRIPTION

DESCRIPTION

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REVISIONS

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PROJECT TRUE

NEW SHARON TOWN HALL OPTION 3

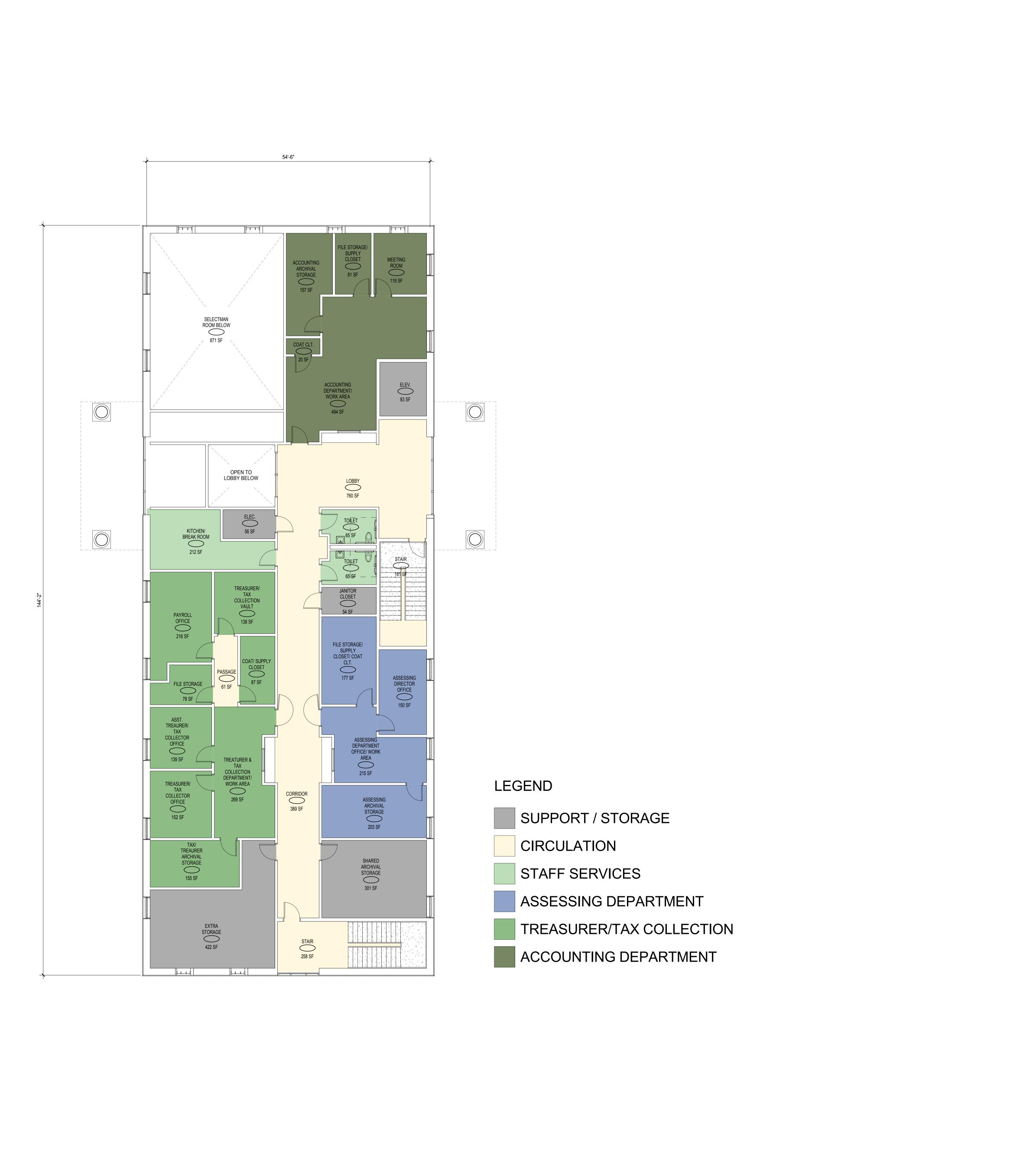
SHARON, MA

DRAWN BY: HM, YM

MAIN LEVEL FLOOR **PLANS**

DRAWING NO.:

A1.01



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KEY PLAN

PROJECT TRUE

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

NEW SHARON TOWN HALL OPTION 3

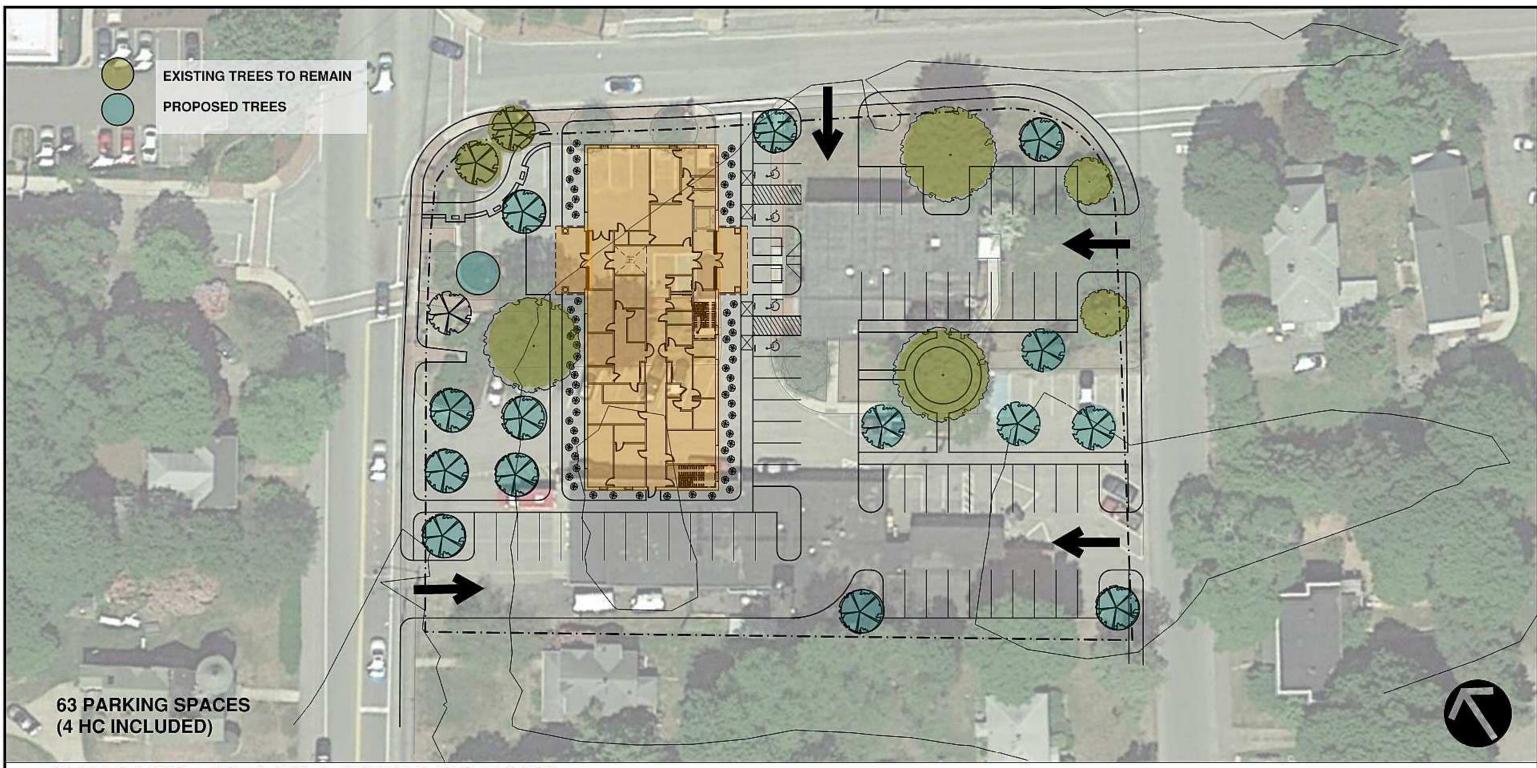
SHARON, MA

DRAWN BY: HM, YM

UPPER LEVEL FLOOR PLAN

DRAWING NO.:

A1.02



SITE PLAN - OPTION 3 (NEW BUILDING)

SCALE: 1" = 40'

SHARON TOWN HALL STUDY

SHARON, MA

OCTOBER 30, 2015

ACSTLE BOOS associates, inc





Sharon Town Hall

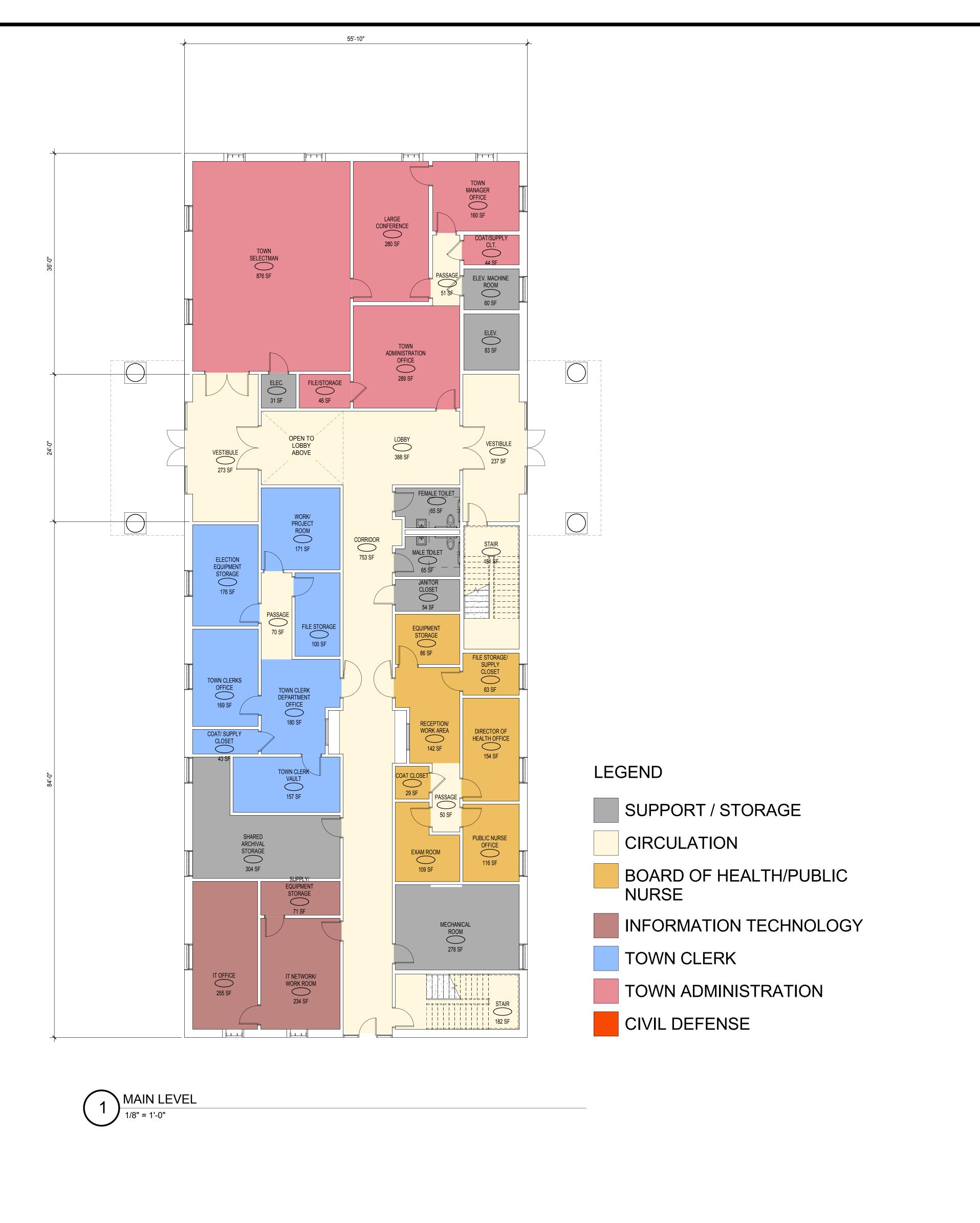
Opinion of Probable Cost Option 3: New Town Hall

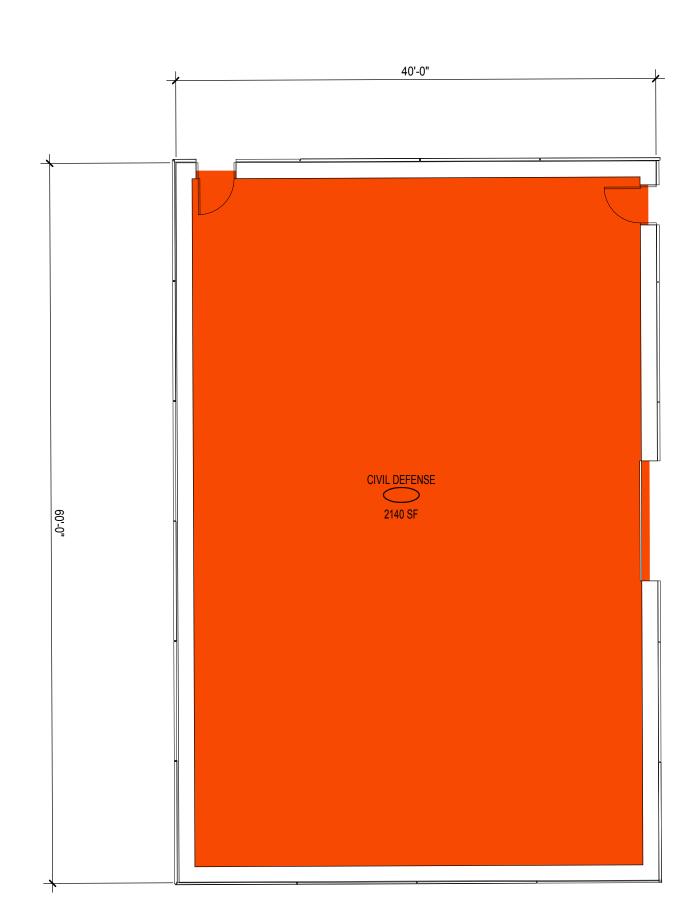
Description				Subtotals	Totals Comments
Construction Costs					
Site Work Allowance (inc Bldg. Demo)				\$851,700	Daedalus Estimate
New Building Construction	16,128	SF		\$4,478,000	
Hazmat Abatement Allowance				\$295,000	UEC Estimate
Concept Level Estimating Contingency		@	12.5%	\$703,100)
Subtotal Di	rect Construc	tio	n Costs:	\$6,327,800	
General Conditions & Overhead	12 months	@	8.5%	\$537,900)
Insurance		@	1.40%	\$96,100)
Bonds		@	0.85%	\$59,200)
GC Fee (Profit)		@	5.00%	\$351,100)
Permit Fee		@	1.5%	Waived	d
Escalation (bid 3rd Quarter of 2015)		@	5.42%	\$399,600	<u>) </u>
Sub	ototal Constru	cti	on Cost:	\$7,771,7	'00
Owner's Indirect Costs					
Land Survey				\$7,000)
Geotech (10 Borings)				\$12,000)
Utility Backcharge				\$25,000	Allowance
Arch.& Eng.Fees				\$663,900)
Project Management				\$311,000)
Furniture & Equipment Allowance				\$100,000)
Moving				\$25,000)
Reproduction /Miscellaneous				\$5,000)
Legal/Advertising				\$5,000)
Material Testing				\$20,000)
Owner's Contingency (10% of all costs)				\$894,400)
	Subtotal Indi	ired	ct Costs:	\$2,068,3	800
	Total Proj	iec	t Cost:	\$9,840,0	000

Option 4

New Town Hall & Civil Defense Facility

- Floor Plans
- Site Plans
- Perspective
- Opinion of Probable Cost





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

PROJECT TRUE

NEW SHARON TOWN HALL OPTION 4

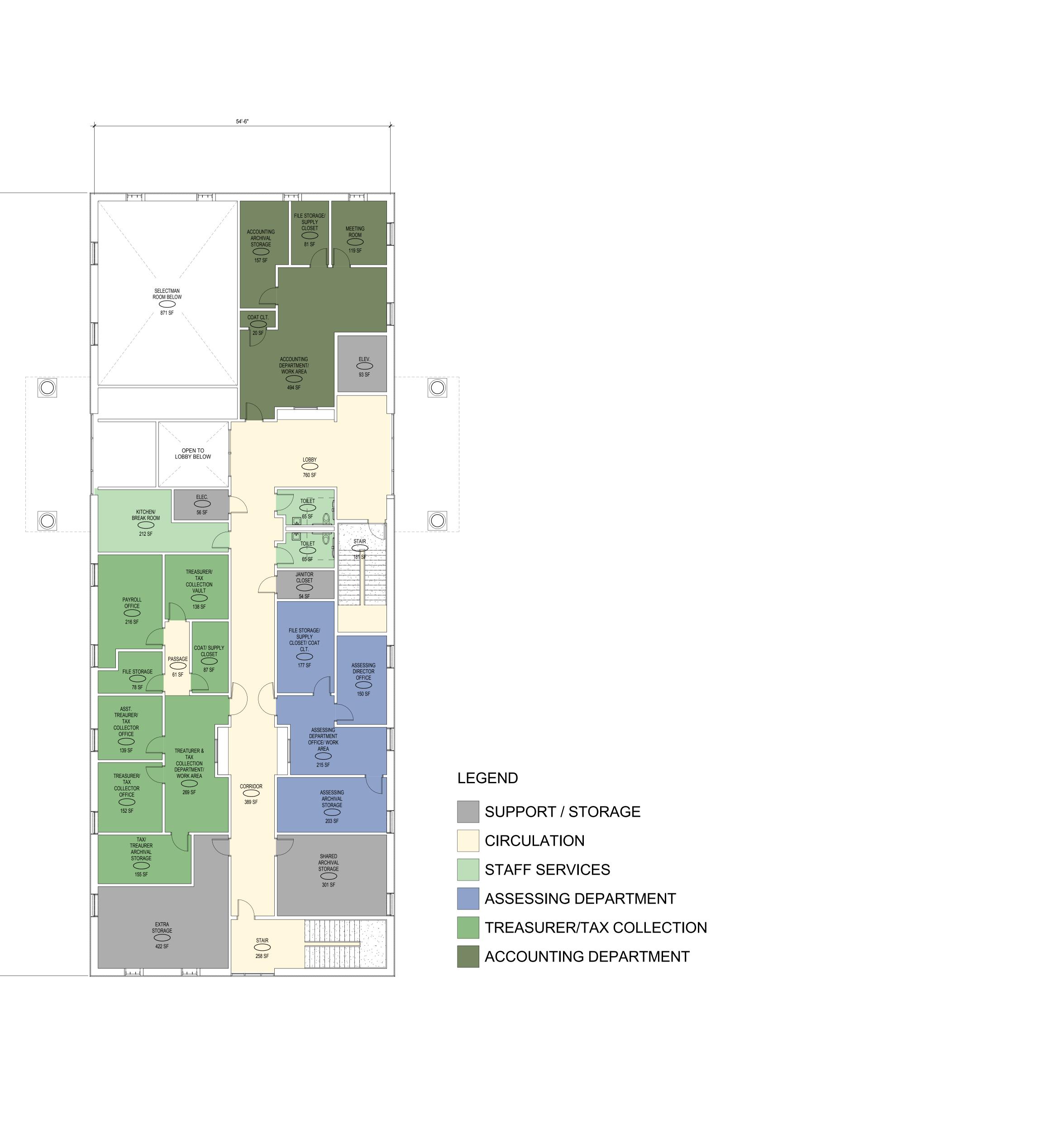
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DRAWN BY: HM, YM

MAIN LEVEL FLOOR **PLANS**

DRAWING NO.:

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KEY PLAN

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

PROJECT TRUE

NEW SHARON TOWN HALL OPTION 4

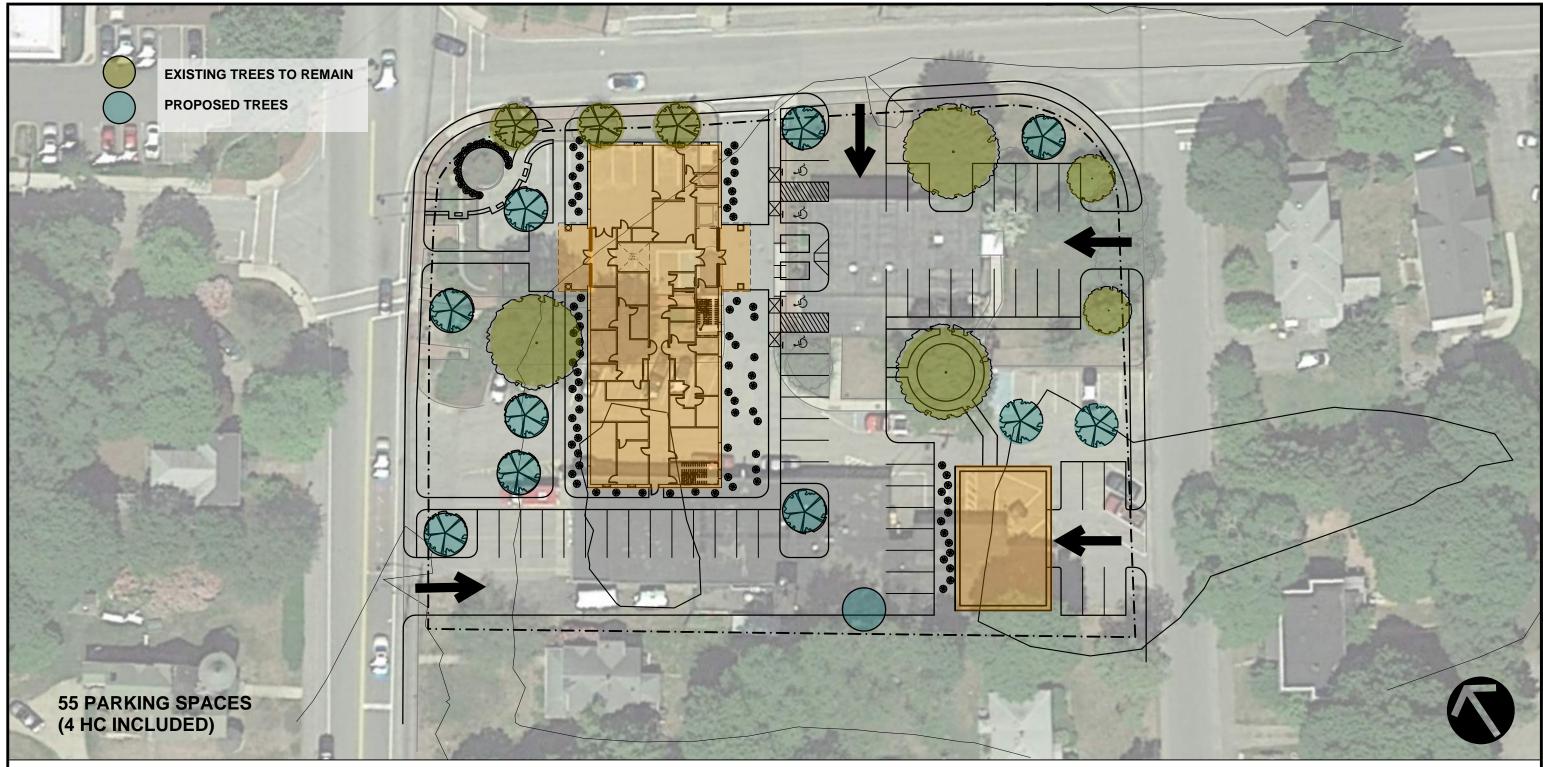
SHARON, MA

DRAWN BY: HM, YM

UPPER LEVEL FLOOR PLAN

DRAWING NO.:

A1.02



SITE PLAN - OPTION 4 (NEW BUILDING & CIVIL DEFENSE)

SCALE: 1" = 40'

SHARON TOWN HALL STUDY

SHARON, MA

NOVEMBER 18, 2015







Sharon Town Hall

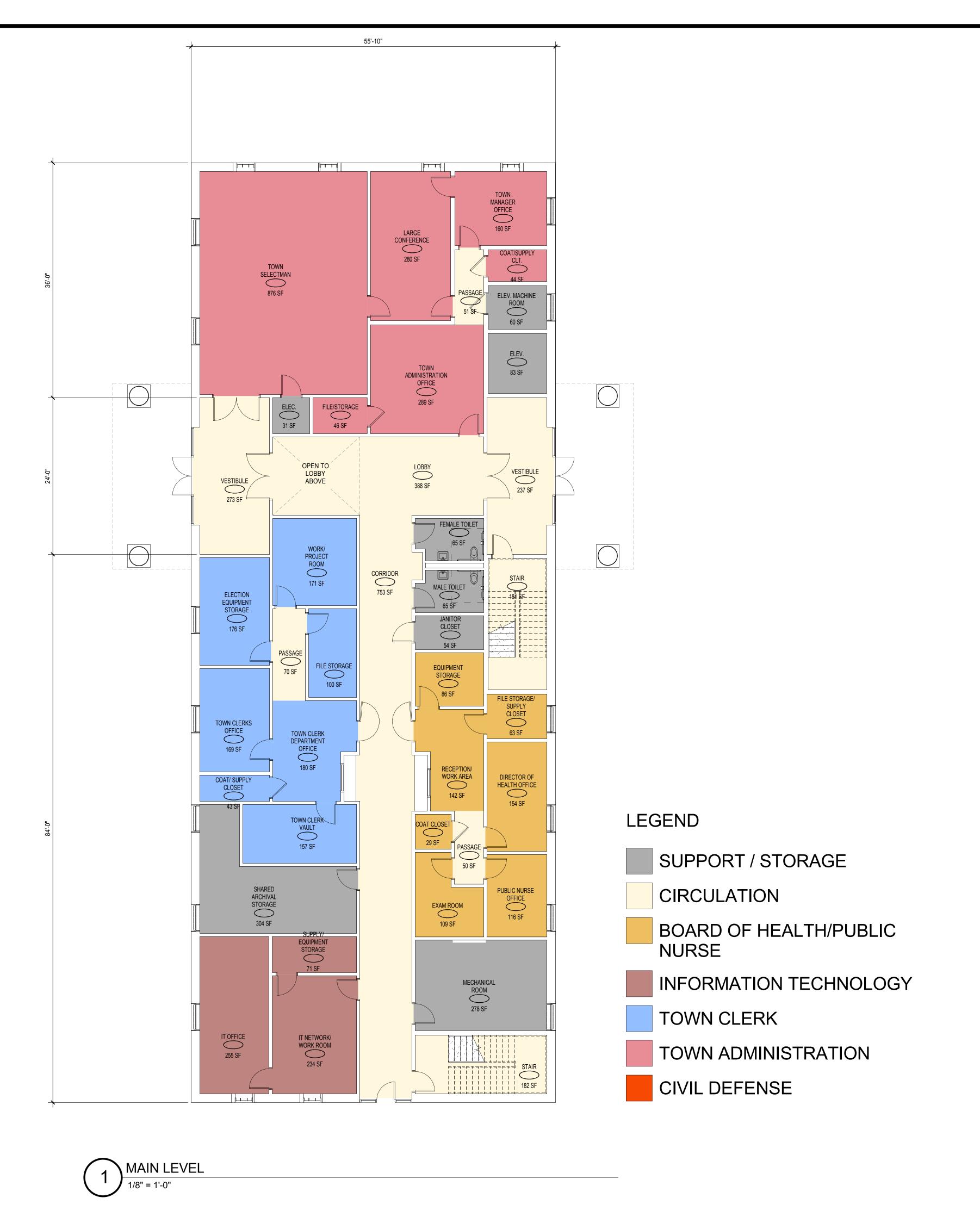
Opinion of Probable Cost Option 4: New Town Hall & CD

Description			Subtotals '	Totals Comments
Construction Costs				
Site Work Allowance (inc Bldg. Demo)			\$926,700	Daedalus Estimate
New Building Construction	16,128 SF		\$4,478,000	Daedalus Estimate
Hazmat Abatement Allowance			\$295,000	UEC Estimate
New Civil Defense facility	2,400 SF		\$720,000	KBA Estimate
Concept Level Estimating Contingency	@	12.5%	\$712,500	
Subtotal Di	rect Construction	n Costs:	\$7,132,200	
General Conditions & Overhead	12 months @	8.5%	\$606,200	
Insurance	@	1.40%	\$108,300	
Bonds	@	0.85%	\$66,700	
GC Fee (Profit)	@	5.00%	\$395,700	
Permit Fee	@	1.5%	Waived	
Escalation (bid 3rd Quarter of 2015)	@	5.42%	\$450,400	
Suk	ototal Constructi	on Cost:	\$8,759,50	10
Owner's Indirect Costs			•	
Land Survey			\$7,000	
Geotech (14 Borings)			\$18,000	
Utility Backcharge			\$35,000	Allowance
Arch.& Eng.Fees			\$772,000	
Project Management			\$350,000	
Furniture & Equipment Allowance			\$120,000	
Moving			\$35,000	
Reproduction /Miscellaneous			\$7,500	
Legal/Advertising			\$7,500	
Material Testing			\$25,000	
Owner's Contingency (10% of all costs)			\$1,013,500	
	Subtotal Indired	ct Costs:	\$2,390,50	00
	Total Projec	t Cost:	\$11,150,0	00
	-		, , , -	

Option 4A

New Town Hall & Renovation of Fire Department for Civil Defense Facility

- Floor Plans
- Site Plans
- Perspective
- Opinion of Probable Cost



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PROJECT TRUE

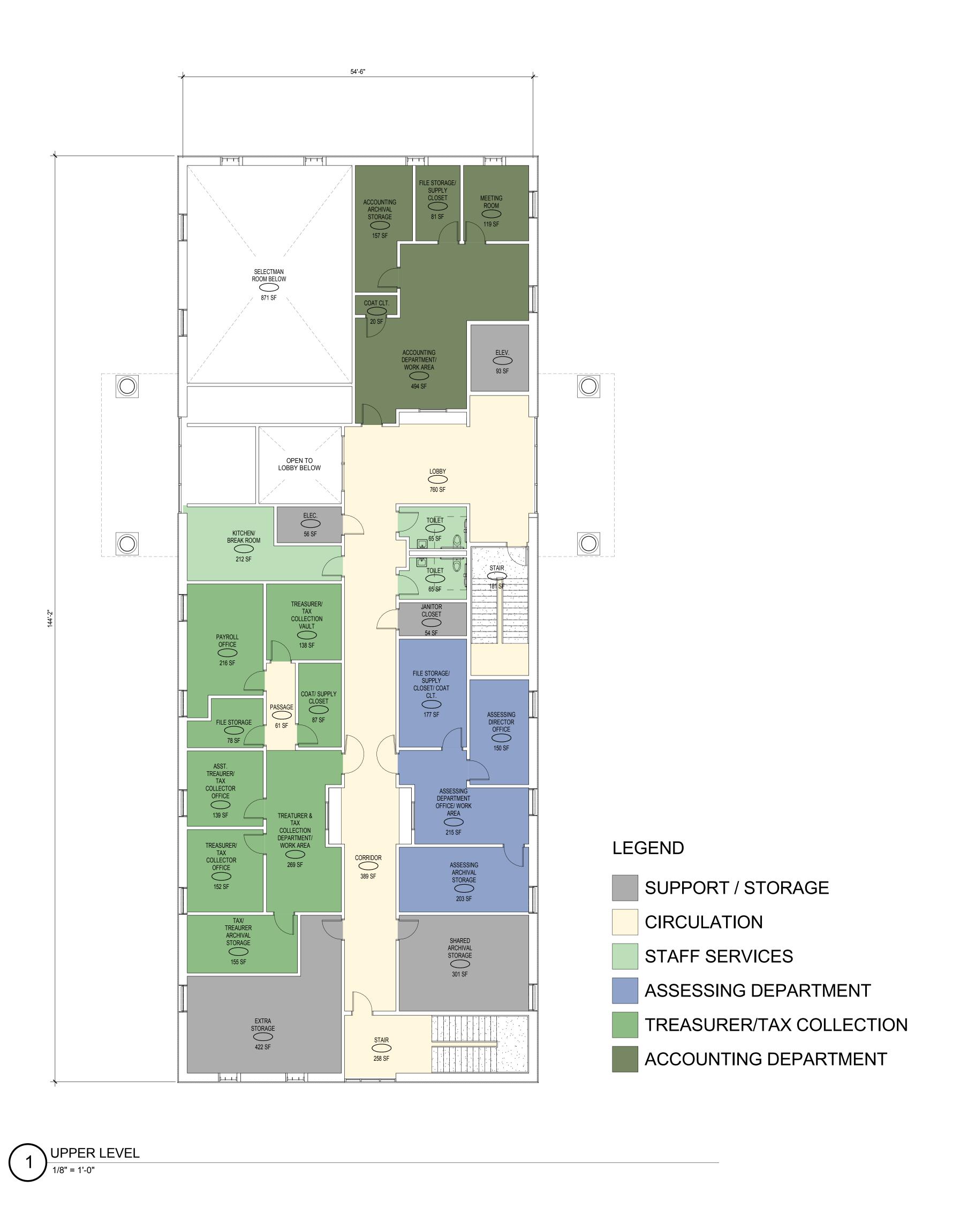
NEW SHARON TOWN HALL OPTION 4A

SHARON, MA

DRAWN BY: HM, YM

MAIN LEVEL FLOOR **PLANS**

DRAWING NO.: A1.01



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

KEY PLAN PROJECT TRUE

NEW SHARON TOWN HALL OPTION 4A

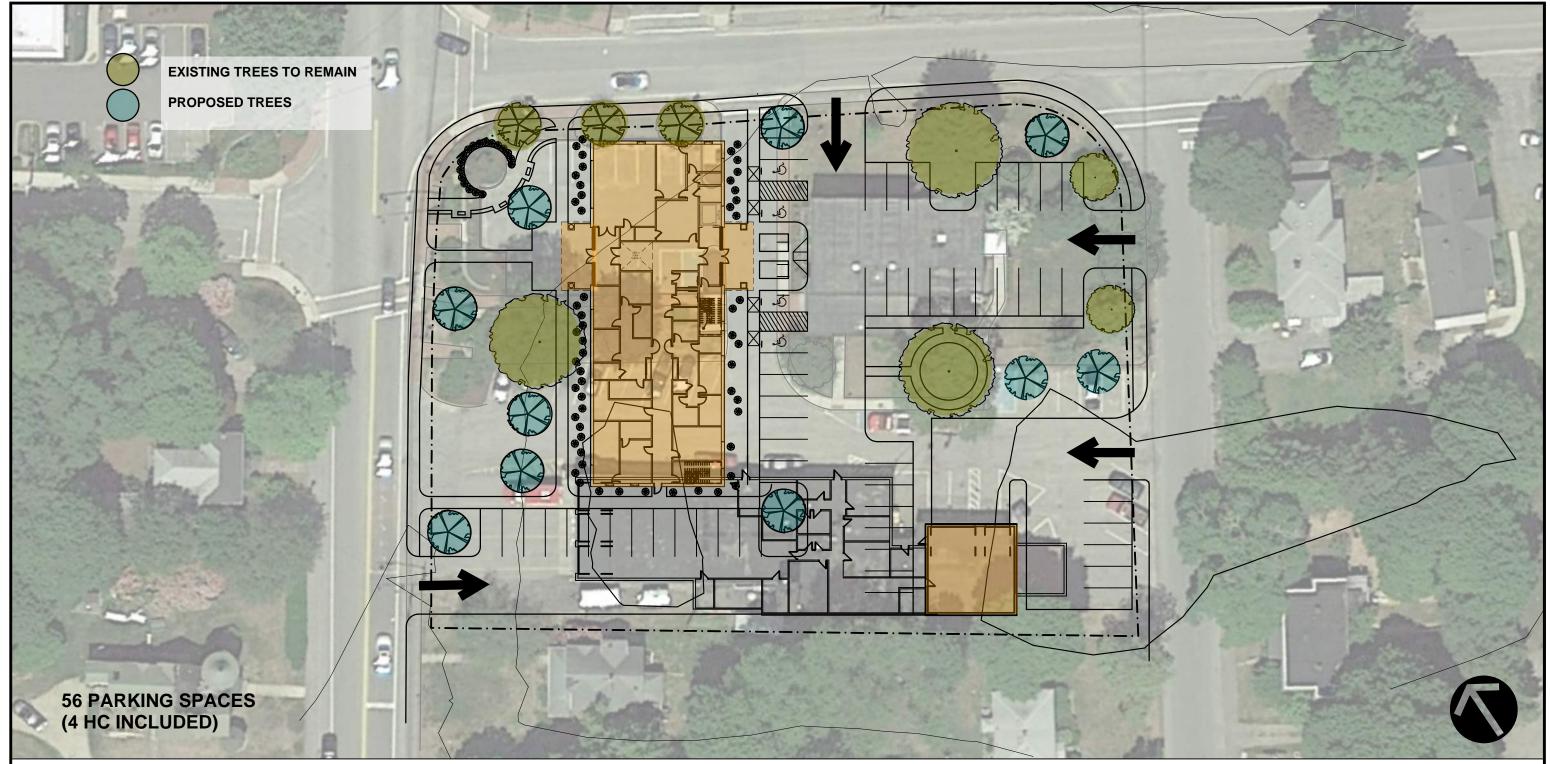
SHARON, MA

DRAWN BY: HM, YM

UPPER LEVEL FLOOR PLAN

DRAWING NO.:

A1.02



SITE PLAN - OPTION 4A (NEW TOWN HALL BUILDING & RENOVATED SPACE FOR CIVIL DEFENSE)

SCALE: 1" = 40'

SHARON TOWN HALL STUDY

SHARON, MA

DECEMBER 2, 2015







Sharon Town Hall

Opinion of Probable Cost Option 4a: New TH, CD Reno

Construction Costs				
Site Work Allowance (inc Bldg. Demo)			\$946,700	Daedalus Estimate
New Building Construction	16,128 SF		\$4,478,000	Daedalus Estimate
Hazmat Abatement Allowance			\$295,000	UEC Estimate
Reno partial FD as Civil Defense facility	y 1,500 SF		\$375,000	KBA Estimate
Concept Level Estimating Contingency	@	12.5%	\$715,000	
Subtotal D	Direct Constructio	n Costs	s: \$6,809,700	
General Conditions & Overhead	12 months @	8.5%	\$578,800	
Insurance	0.	1.40%	•	
Bonds	@	0.85%	+,	
GC Fee (Profit)	@	5.00%	. ,	
Permit Fee	@	1.5%	• •	
Escalation (bid 3rd Quarter of 2016)	@	5.42%	\$430,000	
,	ıbtotal Constructi	on Cos		
Owner's Indirect Costs			, , , , , , , , , , , , , , , , , , , 	
Land Survey			\$7,000	
Geotech (14 Borings)			\$18,000	
Utility Backcharge			\$35,000	Allowance
Arch.& Eng.Fees			\$737,300	
Project Management			\$335,000	
Furniture & Equipment Allowance			\$120,000	
Moving			\$35,000	
Reproduction /Miscellaneous			\$7,500	
Legal/Advertising			\$7,500	
Material Testing			\$25,000	
Owner's Contingency (10% of all costs)			\$969,300	
	Subtotal Indired	t Costs	\$2,296,600	
	Total Projec	t Cost	£ \$10,660,000	





Sharon Town Hall

Cost Comparison - Options 1-4

OPTION 1: HC Accessibility Only

\$ 2,730,000

Pros:

Brings Town Hall into ADA/AAB Compliance Minimum Site Impact

Minimal temporary use of FD bldg

Cons:

High Cost to Benefit ratio

Does Not address Space Needs

Does Not adress Fire Station Reuse

STIT PLAN - OPTION 1 (ACCISSIBILITY ONLY) SHARON TOWN HALL STUDY SHARON TAN

OPTION 2: Add/Reno to Town Hall

Pros:

Brings Town Hall into ADA/AAB Compliance

Meets Space Needs requirements

Opportunity for limited Building Appearance updates

Cons:

Minimal Improvement to Parking / Site Use

Does Not adress Fire Station Reuse (or permanent CD site)

\$ 7,032,000

OPTION 3: New Town Hall (Demolish Existing TH and Fire Station)

\$ 9,840,000

Pros:

New Facility between Existing and saves Large Tree

Meets Space Needs requirements

Updates Building Appearance (Town Character)

Cons:

More Costly

Does Not address permanent location for Civil Defense



OPTION 4: New Town Hall & Civil Defense (Demolish sim.to Opt3)

\$ 11,150,000

Pros:

Same as Option 3, plus

Provides a permanent home for Civil Defense

2400 SF CD Bldg could provide some Town storage space

Cons:

Most Costly Option

Mixed use of CD on this site may not be best



OPTION 4a: New Town Hall & CD Reno (Demo.sim.to Opt3-part of FD)

\$ 10,660,000

Pros:

Same as Option 3, plus

Provides a permanent home for Civil Defense

Cons:

Costly Renovation work for Civil Defense

Renovated Building may be not be an aesthetic plus

Mixed use of CD on this site may not be best







Asbestos Identification Laboratory

165 New Boston St., Ste 271 Woburn, MA 01801 781-932-9600

Web: www.asbestosidentificationlab.com Email: mikemanning@asbestosidentificationlab.com **Batch:** 8970



October 07, 2015

Ammar Dieb Universal Environmental Consultants 12 Brewster Road Framingham, MA 01702 **Project Number:**

Project Name: Sharon Town Hall, Sharon, MA

Date Sampled: 2015-10-02 **Work Received:** 2015-10-05

Analysis Method: BULK PLM ANALYSIS EPA/600/R-93/116

Dear Ammar Dieb,

Asbestos Identification Laboratory has completed the analysys of the samples from your office for the above referenced project

The information and analysis contained in this report have been generated using the EPA /600/R-93/116 Method for the Determination of Asbestos in Bulk Building Materials. Materials or products that contain more than 1% of any kind or combination of asbestos are considered an asbestos containing building material as determined by the EPA. This Polarized Light Microscope (PLM) technique may be performed either by visual estimation or point counting. Point counting provides a determination of the area percentage of asbestos in a sample. If the asbestos is estimated to be less than 10% by visual estimation of friable material, the determination may be repeated using the point counting technique. The results of the point counting supersede visual PLM results. Results in this report only relate to the items tested. This report may not be used by the customer to claim product endorsement by NVLAP or any other U.S. Government Agency.

Laboratory results represent the analysis of samples as submitted by the customer. Information regarding sample location, description, area, volume, etc., was provided by the customer. Asbestos Identification Laboratory is not responsible for sample collection activities or analytical method limitations. Unless notified in writing to return samples, Asbestos Identification Laboratory discards customer samples after 30 days. This report shall not be reproduced, except in full, without the written consent of Asbestos Identification Laboratory.

- NVLAP Lab Code: 200919-0
- Massachusetts Certification License: AA000208
- State of Connecticut, Department of Public Health Approved Environmental Laboratory Registration Number: PH-0142
- State of Maine, Department of Environmental Protection Asbestos Analytical Laboratory License Number: LB-0078(Bulk) LA-0087(Air)
- State of Rhode Island and Providence Plantations Department of Health Certification: AAL-121

Thank you Ammar Dieb for your business.

Michael Thamy

Michael Manning Owner/Director Ammar Dieb Universal Environmental Consultants 12 Brewster Road Framingham, MA 01702 **Project Number:**

Project Name: Sharon Town Hall, Sharon, MA

Date Sampled: 2015-10-02 **Work Received:** 2015-10-05

Analysis Method: BULK PLM ANALYSIS EPA/600/R-93/116

FieldID		Material	Location	Color	Non-Asbestos % Asbestos %			
	LabID							
1		Grey Sink DP	Kitchen	white	Cellulose Non-Fibrous	20 None Detected 80		
	95733				Noil Fiblous	00		
2		Grey Sink DP	Kitchen	white	Cellulose Non-Fibrous	20 None Detected 80		
	95734							
3		E Off FR	Boiler Rm	white	Cellulose Non-Fibrous	5 Detected 65 Chrysotile 10		
	95735				Wolf Tibloub	Amosite 20		
4		E	Boiler Rm	white	Cellulose	5 Detected		
	95736				Non-Fibrous	65 Chrysotile 10 Amosite 20		
5		E	Committee Rm (AC) Bsmt	gray	Mineral Wool	35 None Detected		
					Non-Fibrous	65		
6	95737		Pomt Hall (AC)	aro.	Minaral Maal	40 None Detected		
			Bsmt Hall (AC)	gray	Mineral Wool Non-Fibrous	60		
	95738				1.011 1 151 0 45			
7		E	Bsmt Hall (AC)	gray	Mineral Wool	30 None Detected		
	05530				Non-Fibrous	70		
8	95739		Bsmt Hall (AC)	white	Mineral Wool	30 None Detected		
			Boint Hall (710)	Willo	Non-Fibrous	70		
	95740							
9		Black in FG PI —	Bsmt Hall (AC)	black	Non-Fibrous	100 None Detected		
	95741							
10		Black in FG PI	Bsmt Hall (AC)	black	Non-Fibrous	100 None Detected		
	95742							
11		Joint Compound (JC)	Committee Rm- Bsmt	white	Non-Fibrous	100 None Detected		
	95743							
12		JC —	Committee Rm- Bsmt	white	Non-Fibrous	100 None Detected		
	95744							
13		Rough CP	Boiler Rm Side	multi	Non-Fibrous	100 None Detected		
	95745							
14		Rough CP	Boiler Rm Side	multi	Non-Fibrous	100 None Detected		
	95746							
Wed	nesday 07					Page 1 of 4		

Field	DIL	Material	Location	Color	Non-Asbestos	% Asbe	estos %
	LabID						
15		Rough CP	Boiler Rm Ctr	multi	Non-Fibrous	100 None	Detected
	95747						
16		Concrete Clg Deck	Bsmt Hall	gray	Non-Fibrous	100 None	Detected
_	95748						
7		Paper Blanket for #16	Bsmt Hall	brown	Cellulose Non-Fibrous	95 None 5	Detected
	95749				MOII-L IDI Odo	ن 	
8		Concrete Clg Deck	Bsmt Civil Defence	gray	Non-Fibrous	100 None	Detected
	95750						
19		Paper Blanket for #18	Bsmt Civil Defence	brown	Cellulose Non-Fibrous	95 None 5	Detected
	95751				MOII-L TDT OWP	<u> </u>	
20		White Clg Deck	2nd FL Hall	white	Non-Fibrous	100 None	Detected
	95752	<u> </u>					
21		White Clg Deck	2nd FL SW by IT	white	Non-Fibrous	100 None	Detected
	95753					_	
22	 -	2x4 SAT-I (Pink)	Town Administrator	multi	Mineral Wool		Detected
	95754	_			Cellulose Non-Fibrous	30 20	
23		SAT-I	Lobby Paper Closet	multi	Mineral Wool		Detected
	95755	_			Cellulose Non-Fibrous	30 20	
24	75195	SAT-I	Payroll	multi	Mineral Wool		Detected
		_			Cellulose Non-Fibrous	30 20	
25	95756	SAT-II (Hash Marks)	Hall by IT	multi	Mineral Wool		Detected
			· · · · · · · · · · · · · · · · · · ·		Cellulose	50	
 26	95757	SAT-II	2nd FL Landing (Veterans)	multi	Non-Fibrous Mineral Wool	20 30 None	Detected
<u></u>		——————————————————————————————————————	ZNU FL Landing (Veterano)	Mun	Mineral Wool Cellulose	50	Derector
	95758			•••	Non-Fibrous	20	· .a
27		Smooth Hard CP	2nd FL Jan Closet	multi	Non-Fibrous	100 None	Detected
	95759						
28		Smooth Hard CP	1st FL Bathrm	multi	Non-Fibrous	100 None	Detected
	95760			•••			· .a
29		Smooth Hard WP	Computer Rm	multi	Non-Fibrous	100 None	Detected
	95761						
30		(Grey) Lino-I	Lobby SW Landing	gray	Cellulose Non-Fibrous	35 None 65	Detected
	95762						
31		Adhesive #30	Lobby SW Landing	red	Non-Fibrous	100 None	Detected
	95763						
32		Lino-l ——	Lobby @ Stairs	gray	Cellulose Non-Fibrous	35 None 65	Detected
	95764						

FieldID		Material	Location	Color	Non-Asbestos	% Asbestos %	
	LabID						
33		Adh #32	Lobby @ Stairs	red	Non-Fibrous	100 None Detecte	ed.
	95765						
34		Glazing for Interior Door Window	SW Bsmt by Civil Defence	gray	Non-Fibrous	98 Detected Chrysotile	2
~-	95766	C. C. C. D. W. L.	CM D. H. D. H. D.		-11		
35		GL for Int Door Window —	SW Bsmt by Boiler Rm	gray	Non-Fibrous	98 Detected Chrysotile	2
36	95767	Interior Window Glaze	SW by Veterans	gray	Non-Fibrous	95 Detected	
			3 1 2 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	9.47		Chrysotile	5
37	95768	Int Win GL	SW by IT	gray	Non-Fibrous	95 Detected	
				giaj	11011 1 121 0 012	Chrysotile	5
38	95769	(Red Square) Lino-II	Side Entrance Hall	red	Cellulose	2 Detected	
					Non-Fibrous	78 Chrysotile	20
39	95770	Lino-II	Side Entrance Hall	red	Cellulose	2 Detected	
					Non-Fibrous	68 Chrysotile	30
40	95771	Adhesive #38	Side Entrance Hall	yellow	Non-Fibrous	100 None Detecte	<u> </u>
				,			
41	95772	Adhesive #39	Side Entrance Hall	yellow	Non-Fibrous	100 None Detecte	<u> </u>
	0.5.5.5.0			,			
42	95773	9" VT	Computer Rm- 1st FL	green	Non-Fibrous	90 Detected	
	05554		·	J		Chrysotile	10
43	95774	Mastic #42	Computer Rm- 1st FL	black	Non-Fibrous	100 None Detecte	
	05775		·				
44	95775	9" VT	Bsmt Cust Rm	brown	Non-Fibrous	85 Detected	
	05776	_				Chrysotile	15
45	95776	Mastic #44	Bsmt Cust Rm	black	Non-Fibrous	100 None Detecte	<u></u>
	95777	_					
46	93111	Mastic for 9" VT	2nd FL Hall by IT	black	Non-Fibrous	100 None Detecte	 ed
	95778						
47	93116	Mastic for 9" VT	Tax Collector, Hall	black	Non-Fibrous	100 None Detecte	<u> </u>
	95779	_					
48	23112	Mastic for 9" VT	2nd FL Landing	multi	Non-Fibrous	100 None Detecte	<u></u>
	95780						
49	33700	12" Tan w/ Red Streaks	1st FL Lobby UC	brown	Non-Fibrous	98 Detected	
	95781	_				Chrysotile	2
50		Mastic #49	1st FL Lobby UC	black	Non-Fibrous	100 None Detecte	:d
	95782						

FieldID		Material	Location	Color	Non-Asbestos	% Asbestos %
	LabID					
51		12" Tan w/ Red Streaks	1st FL Lobby UC	tan	Non-Fibrous	98 Detected
	95783					Chrysotile 2
52		Mastic #51	1st FL Lobby UC	black	Non-Fibrous	100 None Detected
	95784					
53		Window Frame Caulk	Fire Sta Side, Exterior	gray	Non-Fibrous	100 None Detected
	95785					
54		Win FR Caulk —	Street Side, Exterior	gray	Non-Fibrous	100 None Detected
	95786					
55 ——		Door FR Caulk —	Boiler Rm, Exterior	gray	Non-Fibrous	100 None Detected
	95787					
56		Door FR Caulk	Boiler Rm, Exterior	gray	Non-Fibrous	100 None Detected
	95788					
57		Grey Grille Caulk	Exterior	gray	Non-Fibrous	100 None Detected
	95789					
58		Grey Grille Caulk	Exterior	gray	Non-Fibrous	100 None Detected
	95790					
59 ——		Assumed DP on —Foundation	Side Street Side, Exterior	black	Non-Fibrous	100 None Detected
	95791					
60		Assumed DP on — Foundation	Side Street Side, Exterior	black	Non-Fibrous	100 None Detected
	95792		B + 100 1			
61		Flashing Protruding From — Interior Wall	Bsmt- Kitchen	black	Cellulose Non-Fibrous	20 Detected 70 Chrysotile 10
	95793	Flacking Destruction France	Don't Committee Doom	la la al-	~ 11 1	00 Patranta 1
62		Flashing Protruding From —Interior Wall	DSITIL- COMMINITIEE KOOM	black	Cellulose Non-Fibrous	20 Detected 70 Chrysotile 10
	95794					
63		Flashing Protruding From —Interior Wall	2nd FL Stairwell by IT	black	Cellulose Non-Fibrous	35 Detected 60 Chrysotile 5
\A/~ : !	95795		. Full-f Daniel	_		Dogo 4 of 4
	nesday 07	Michael The	End of Report			Page 4 of 4
Anal	yzed by:		Batch : 8970			

Universal Environm	ental Consultants
12 Brewster Road	
Framingham, MA 01	702
Tel: (508) 628-5486 -	Fax: (508) 628-5488
adieb@uec-env.com	1

Town/City: Sharon, Ma Building Name - Sharon Town Hall

Sample	Result Description of Material	Sample Location
/	grey sink do	Kitchen
2	grey sink do	
_3	BOFF FG	Kitchen
4	(E)	Brileren
5		Boiler em
6	(E)	Committee sm (AC) Bomt
·	(E)	Bent hall
2		Bent hall
8		Bent ball V
. 9	Black in FG (Pi)	Bent hall (AC)
10	Block IN FG (P)	Bent hall (AC)
11	doint Compound (UC)	Committee Rm ~ Bont
12	16	" " " Ssort
13	rough cp	2.1
14	rough CP	Boiler en side
15	rough CP	- side
16		W CM
12	concrete che deck	Bent hall
	paper blanket for #16	(Bent ball
18	cauciete els deck	Bint Civil Defense
19	paper blanket for #18	11 11 11
20	white che dear	2-d Fl ball

Reported By:	Data: 16-7-15	ز جمنی
	Date.	Due Date: 48-50
nceived By: WWW	1171 0	
celved By: VIVIV VVI	Date: 10105115	•
	Date.	•

Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702
Tel: (508) 628-5486 - Fax: (508) 628-5488
adieb@uec-env.com

Town/City: Sharow, MA Building Name Sharow Town Hall

Sample	Result	Description of Material	Sample Location
21		white of deck	and Fl. s.w. by I.T.
25	ļ	2x4 507- I (pink)	Town Administrator
23		SAT-I	
24		SAT-I	Lohny paper closet
25		SAT-IL (hashmarks)	ball by IT.
26		SAT-II	zad Canding (Veteraus)
27		smooth hard CP	Ent Los closet
28		smooth hard cp	1ST FL bather
. 29		smooth hard we	Computerim
30	· · · · · · · · · · · · · · · · · · ·	(Grey) Cino-I	
31		adhesive #30	Copy 5.w. Carding
32		Gar-I.	Lobby 13 start
33		ndh. # 32	Lebby @ STAIRS
34			- window Bant by Civil Defens
.35		gh for int door wind	
36	·	ENTERIOS WINDOW JAME	
37		int. wingl	suby Veterans
38		red square Line-II	side anscauce ball
-39			
40		Adhesive #38	side antrang

Reported By:	Date:	10-2-15	 Due Date: -	
Received By:	Date:			•

Universal En	vironmental Consultants
12 Brewster F	Road
Framingham,	MA 01702
Tel: (508) 628	-5486 - Fax: (508) 628-5488
adieb@uec-e	nv.com

Town/City: Sharay ma Building Name Sharay Town Ifall

Sample	Resu	L Description of Material	Sample Location
41		Adhesive #39	
42		9° VT	side entrance hall
43		mastic # 42	Computer in - 157 FL
44		9" 27	
45		massic + 44	Bent cust cm
46		mastic for 9" vi	and at 1
47		mastic for 9" VI	2nd Fl. hall by I.T.
48			Tax Collector, hall
. 49		mastic for 9" ut	2-d Fl landing
50		12" tan wheed sweaks	18t Fl LOBBY U.C.
51		mastic# 49	1
5Z		12" tan we red stiraks	
<i>5</i> 3		mastic # 51	
		window frame castk	Fire SIA side Exterior
55	:	win fremlk	Street SiDE
		Door fi casik	Boileson
56		Door fi cask	Beilesen
<u>57</u>		grey grille coulk	
58		Try goille caulk	
59		assumed do an foundation	side smeet side
60	·	assumed of an foundation	" 16 4

Reported By:	Date:	10/2/15	Due Date:	48-hr
Received By:	Date:		٠	

Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702
Tel: (508) 628-5486 - Fax: (508) 628-5488
adieb@uec-env.com

Town/City: - Skaron ma Building Name - Sharon Town Hall

	S00 302-2000-000-000-000		0.4	
Sample	Result	Description of Materia		Sample-Location
61	<u> </u>	Elashing pentil	ding from 6	NIECTOR WALL Bont - Kitchen
62	1	Flashing protes		" " Bent - Commit
		Casta profre	ding tram	Bent - roan
63	:	FLASHING PROTIE	ding from	" " Ent FL by I.T.
	<u> </u>		<i>V</i>	
		·		
				
	-			

Reported By:	Date:	10/2/15	Due Date: -	48-hr
Received By:	Date:			•



Sharon Town Hall Option 1: Accessibility Addition Sharon, MA

November 11, 2015

Conceptual Estimate

Architect:

Kaestle Boos 325 Foxborough Boulevard, Suite 100 Foxborough, MA 02035 (508) 549 9906 **Cost Consultant:**

Daedalus Projects, Inc. 112 South Street Boston, MA 02111 (617) 451 2717



Sharon Town Hall
Option 1: Accessibility Addition
Sharon, MA

INTRODUCTION

Project Description:

- Construction of new addition to the existing Town Hall for accessibility
- Renovation to the existing Town Hall only at removed staircase
- An allowance has been carried for sitework

Project Particulars:

- Estimate is based off the following information:
 Drawings received from KBA at their office on September 21, 2015
- Daedalus Projects, Inc. experience with similar projects of this nature.

Project Assumptions:

- Our costs assume that there will be at least three subcontractors submitting unrestricted bids in each subtrade, and at least four General Contractors.
- Unit rates are based on current dollars.
- An escalation allowance to the start of construction has been included in the summary
- Subcontractor's markups have been included in each unit rate. Markups cover the cost of field overhead, home office overhead and subcontractor's profit.
- Design and Pricing Contingency markup is an allowance for unforeseen design issues, design detail development and specification clarifications.
- General Conditions and Requirements value covers Sub-Contractor's bond, site office overheads, and building permit applications.
- Fee markup is calculated on a percentage basis of direct construction costs. The value covers Contractor's bond, insurance and profit.
- Labor will be at prevailing wages.



Sharon Town Hall

Option 1: Accessibility Addition

Sharon, MA

2,163 NSF

MAIN SUMMARY

DESCRIPTION			TOTAL	COST/GSF
Town Hall Addition		10,715 GSF	\$1,098,718	\$102.54
Sitework			\$66,854	
	Total	10,715 GSF	\$1,165,572	\$108.78
Design Contingency	15.00%	\$1,165,572	\$174,836	\$16.32
Total Direct Cost			\$1,340,408	\$125.10
Total Direct Cost			\$1,340,400	φ123.10
<u>Markup</u>				
General Conditions & Requirements	12 MTHS	\$40,000	\$480,000	\$44.80
Control Contained a requirement	12 111110	Ψ10,000	ψ 100,000	ψ11.00
Insurance	1.40%	\$1,820,408	\$25,486	\$2.38
Bond	0.85%	\$1,845,894	\$15,690	\$1.46
		* 1,5 15,55	, , , , , , ,	•
Permit	1.50%		Waived	
Fee	5.00%	\$1,861,584	\$93,079	\$8.69
		* 1,551,551	+23,273	
Tatal Canadanatian			\$4.054.000	£400.40
Total Construction			\$1,954,663	\$182.42
Frankis to 4th Overter 2040	F 400/	Φ4 054 CCO	Φ405.070	ФО ОО
Escalation to 4th Quarter 2016	5.42%	\$1,954,663	\$105,878	\$9.88
Total Construction			\$2,674,795	\$249.63



TOWN HALL BUILDING SUMMARY ADDITION (CSI FORMAT)

Sharon Town Hall Option 1: Accessibility Addition

Sharon, MA

10,715 GSF

ELEMENT	COST	10,715 GSF COST/SF
02-Existing Conditions	\$40,499	\$3.78
03-Concrete	\$57,944	\$5.41
04-Masonry	\$87,840	\$8.20
05-Metals	\$101,406	\$9.46
06-Woods & Plastics	\$16,248	\$1.52
07-Thermal & Moisture	\$55,682	\$5.20
08-Doors & Windows	\$154,175	\$14.39
09-Finishes	\$166,895	\$15.58
10-Specialties	\$6,905	\$0.64
11-Equipment		
12-Furnishings	\$6,995	\$0.65
14-Conveying System	\$110,000	\$10.27
21 00 00 - Fire Suppression	\$48,962	\$4.57
22 00 00 - Plumbing	\$25,750	\$2.40
23 00 00 - HVAC	\$91,395	\$8.53
26-Electrical	\$77,178	\$7.20
31-Earthwork	\$50,845	\$4.75
Subtotal Carried to Main Summary	\$1,098,718	\$102.54



BUILDING DETAIL ADDITION (CSI FORMAT)

Sharon Town Hall Option 1: Accessibility Addition

Sharon, MA 10,715 GSF

					-	10,715 GSF
10		ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
10	_					
11 0.2 41 00 - Demolition 12 Remove existing stair case 2 FLT \$3,500.00 \$7,000 13 Demolish portion of existing exterior wall 405 SF \$3.00 \$1,215 14 Sawcut existing exterior wall 186 LF \$15.00 \$2,250 15 Scaffolding 720 SF \$3.50 \$2,520 16 Demolish existing interior wall 672 SF \$3.50 \$2,520 16 Demolish existing interior wall 672 SF \$2.50 \$1,680 17 Sawcut for new door at existing 27 LOC \$500.00 \$13,500 18 Ditto at pair doors 1 LOC \$500.00 \$51,500 19 Miscellaneous interior demolition 768 SF \$8.00 \$6,500 20 Miscellaneous interior demolition 768 SF \$8.00 \$5,000 21 OLD Contract \$100 \$100 \$100 \$100 \$100 \$100 \$100		02-Existing Conditions				
Remove existing stair case						
13 Demolish portion of existing exterior wall 166 LF			•	-	#2.500.00	Ф 7 000
14 Sawcut existing exterior wall 186 LF \$15.00 \$2,790 15 Scaffolding 720 SF \$3.50 \$2,520 16 Demolish existing interior wall 672 SF \$2.50 \$1,680 17 Sawcut for new door at existing 27 LOC \$650.00 \$650 18 Ditto at pair doors 1 LOC \$650.00 \$650 19 Miscellaneous interior demolition 768 SF \$8.00 \$6,144 20 Allow for cutting and patching 1 AL \$5,000.00 \$5,000 21 Q2 41 00 - Demolition Total Total Total \$5,000.00 \$40,499 22 22 Strip Conditions Total Total Total \$40,499 24 33-Concrete 90 If \$40,499 25 Concrete 90 If \$40,499 26 Concrete 90 If \$45,499 27 Concrete 90 If						
15 Scaffolding 720 SF \$3.50 \$2,520 16 Demolish existing interior wall 672 SF \$2.50 \$1,680 17 Sawcut for new door at existing 27 LOC \$500.00 \$13,500 18 Ditto at pair doors 1 LOC \$650.00 \$650 19 Miscellaneous interior demolition 768 SF \$8.00 \$6,144 20 Allow for cutting and patching 1 AL \$5,000.00 \$5,000.00 21 Q2 41 00 - Demolition Total TAL \$5,000.00 \$40,499 22 Concrete ST ST \$40,499 22 O2-Existing Conditions Total ST ST \$40,499 23 O2-Concrete 90 If \$40,499 \$40,499 24 O3 00 00 - Concrete 90 If \$40,499 \$40,499 \$40,499 \$40,499 \$40,499 \$40,499 \$40,499 \$40,499 \$40,499 \$40,499 \$40,499 \$40,499 <td< td=""><td></td><td></td><td></td><td></td><td>•</td><td>•</td></td<>					•	•
16 Demolish existing interior wall 672 SF \$2.50 \$1,680 17 Sawcut for new door at existing 27 LOC \$500.00 \$13,500 18 Ditto at pair doors 1 LOC \$650.00 \$650 19 Miscellaneous interior demolition 768 SF \$8.00 \$6,144 20 Allow for cutting and patching 1 AL \$5,000.00 \$5,000.00 21 02 41 00 - Demolition Total \$40,499 \$40,499 22 22 23 O2-Existing Conditions Total 24 25 24 24 25 25 24 25 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25 25 25 25 25		-			·	•
17 Sawcut for new door at existing 27 LOC \$500.00 \$13,500 \$18 Ditto at pair doors 1 LOC \$650.00 \$650.0		-			•	
18 Ditto at pair doors 1 LOC \$650.00 \$650.00 19 Miscellaneous interior demolition 768 SF \$8.00 \$6,144 20 Allow for cutting and patching 1 AL \$5,000.00 \$5,000.00 21 02 41 00 - Demolition Total 2 Very 100 - Demolitions Total \$40,499 22 23 02-Existing Conditions Total \$40,499 24 25 26 03-Concrete 2 Very 2 V		_			•	•
19 Miscellaneous interior demolition 768 SF \$8.00 \$6,144 20 Allow for cutting and patching 1 AL \$5,000.00 \$5,000.00 21 02 41 00 - Demolition Total \$40,499 22 Use-sisting Conditions Total \$40,499 25 Use-sisting Conditions Total \$40,499 26 D3-Concrete \$40,499 27 Use-sisting Conditions Total \$40,499 28 O3-Concrete \$40,499 29 Os-concrete \$40,499 29 Concrete: 90 If 30 Strip footing 7 CY \$125.00 \$875 31 Isolated footings 6 CY \$125.00 \$3,625 32 Foundation/Basement walls 29 CY \$125.00 \$3,625 33 Piers 1 CY \$125.00 \$3,625 34 Slab on Grade 14 CY \$130.00 \$1,820 35 Upper decks 11 CY \$140.00 \$1,540 36 Place concrete 48 CY \$85.00 \$5,780 37 Reinforcing: 455 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS		_			·	
20 Allow for cutting and patching 1 AL \$5,000.00 \$5,000.00 21 02 41 00 - Demolition Total \$40,499 22 23 02-Existing Conditions Total \$40,499 24 25 Concrete 26 03-Concrete 90 If Image: Concrete Support of the Concrete Support of Concrete: 90 If Support of Concrete Support of Concrete: 30 Strip footing 7 CY \$125.00 \$875 31 Isolated footings 6 CY \$125.00 \$750 32 Foundation/Basement walls 29 CY \$125.00 \$3,625 33 Piers 1 CY \$125.00 \$1,250 34 Slab on Grade 14 CY \$130.00 \$1,820 35 Upper decks 11 CY \$140.00 \$1,540 36 Place concrete 68 CY \$85.00 \$5,780 37 Reinforcing: \$25 LBS \$1.05 \$198 39 Isolated footings 455 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$945 41 Piers 65 LBS \$1.05 \$4,568 42 WWF for sog 855 SF \$1.00 \$865		·			·	•
1					· ·	
1			1	AL	φ5,000.00	
\$40,499 \$40,499 \$24 \$25 \$26 \$27 \$27 \$28 \$29 \$2		02 41 00 - Demontion Total				\$40,499
24		00 Estation Con Pittons Total				¢40 400
25 03 - Concrete 28 03 00 00 - Concrete 90 If 29 Concrete: 90 If 30 Strip footing 7 CY \$125.00 \$875 31 Isolated footings 6 CY \$125.00 \$750 32 Foundation/Basement walls 29 CY \$125.00 \$3,625 33 Piers 1 CY \$125.00 \$3,625 34 Slab on Grade 14 CY \$130.00 \$1,820 35 Upper decks 11 CY \$140.00 \$1,540 36 Place concrete 68 CY \$85.00 \$5,780 37 Reinforcing: 38 Strip footing 455 LBS \$1.05 \$198 39 Isolated footings 900 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$456 42 <t< td=""><td></td><td>U2-Existing Conditions Total</td><td></td><td></td><td></td><td>\$40,433</td></t<>		U2-Existing Conditions Total				\$40,433
26 03-Concrete 28 Concrete: 90 If 30 Strip footing 7 CY \$125.00 \$875 31 Isolated footings 6 CY \$125.00 \$750 32 Foundation/Basement walls 29 CY \$125.00 \$3,625 33 Piers 1 CY \$125.00 \$125 34 Slab on Grade 14 CY \$130.00 \$1,820 35 Upper decks 11 CY \$140.00 \$1,540 36 Place concrete 68 CY \$85.00 \$5,780 37 Reinforcing: 38 Strip footing 455 LBS \$1.05 \$198 39 Isolated footings 900 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 SF \$1.00 \$855						
27 28 03 00 00 - Concrete 29 Concrete: 90 If 30 Strip footing 7 CY \$125.00 \$875 31 Isolated footings 6 CY \$125.00 \$750 32 Foundation/Basement walls 29 CY \$125.00 \$3,625 33 Piers 1 CY \$125.00 \$1,25 34 Slab on Grade 14 CY \$130.00 \$1,820 35 Upper decks 11 CY \$140.00 \$1,540 36 Place concrete 68 CY \$85.00 \$5,780 37 Reinforcing: 38 Strip footing 455 LBS \$1.05 \$198 39 Isolated footings 900 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 \$F \$1.00 \$855		03-Concrete				
28 03 00 00 - Concrete 29 Concrete: 90 If 30 Strip footing 7 CY \$125.00 \$875 31 Isolated footings 6 CY \$125.00 \$750 32 Foundation/Basement walls 29 CY \$125.00 \$3,625 33 Piers 1 CY \$125.00 \$1,25 34 Slab on Grade 14 CY \$130.00 \$1,820 35 Upper decks 11 CY \$140.00 \$1,540 36 Place concrete 68 CY \$85.00 \$5,780 37 Reinforcing: 38 Strip footing 455 LBS \$1.05 \$198 39 Isolated footings 900 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 \$F \$1.00 \$855 <td></td> <td>05-00Herete</td> <td></td> <td></td> <td></td> <td></td>		05-00Herete				
29 Concrete: 90 If 30 Strip footing 7 CY \$125.00 \$875 31 Isolated footings 6 CY \$125.00 \$750 32 Foundation/Basement walls 29 CY \$125.00 \$3,625 33 Piers 1 CY \$125.00 \$125 34 Slab on Grade 14 CY \$130.00 \$1,820 35 Upper decks 11 CY \$140.00 \$1,540 36 Place concrete 68 CY \$85.00 \$5,780 37 Reinforcing: 38 Strip footing 455 LBS \$1.05 \$198 39 Isolated footings 900 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 SF \$1.00 \$855	28	03 00 00 - Concrete				
30 Strip footing 7 CY \$125.00 \$875 31 Isolated footings 6 CY \$125.00 \$750 32 Foundation/Basement walls 29 CY \$125.00 \$3,625 33 Piers 1 CY \$125.00 \$1,25 34 Slab on Grade 14 CY \$130.00 \$1,820 35 Upper decks 11 CY \$140.00 \$1,540 36 Place concrete 68 CY \$85.00 \$5,780 37 Reinforcing: 3 \$1.05 \$198 39 Isolated footings 900 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 \$F \$1.00 \$855			90	If		
31 Isolated footings 6 CY \$125.00 \$750 32 Foundation/Basement walls 29 CY \$125.00 \$3,625 33 Piers 1 CY \$125.00 \$1,25 34 Slab on Grade 14 CY \$130.00 \$1,820 35 Upper decks 11 CY \$140.00 \$1,540 36 Place concrete 68 CY \$85.00 \$5,780 37 Reinforcing: 38 Strip footing 455 LBS \$1.05 \$198 39 Isolated footings 900 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 \$F \$1.00 \$855	30				\$125.00	\$875
Foundation/Basement walls Foundation/Basement walls Piers 1 CY \$125.00 \$3,625 1 CY \$125.00 \$125 LYPPER decks 1 CY \$130.00 \$1,820 LYPPER decks 1 CY \$140.00 \$1,540 LYPPER decks Reinforcing: Strip footing Strip footing Strip footings Poundation/Basement walls 4,350 LBS \$1.05 \$945 LBS \$1.05 \$945 LBS \$1.05 \$4,568 LBS \$1.05 \$4,568 WWF for sog Reinforcing: Strip footing \$1.05 \$4,568 LBS \$1.05 \$4,568	31		-		·	
33 Piers 1 CY \$125.00 \$125 34 Slab on Grade 14 CY \$130.00 \$1,820 35 Upper decks 11 CY \$140.00 \$1,540 36 Place concrete 68 CY \$85.00 \$5,780 37 Reinforcing: Strip footing 455 LBS \$1.05 \$198 39 Isolated footings 900 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 SF \$1.00 \$855	32	-			·	•
34 Slab on Grade 14 CY \$130.00 \$1,820 35 Upper decks 11 CY \$140.00 \$1,540 36 Place concrete 68 CY \$85.00 \$5,780 37 Reinforcing: 38 Strip footing 455 LBS \$1.05 \$198 39 Isolated footings 900 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 SF \$1.00 \$855	33				·	
35 Upper decks 11 CY \$140.00 \$1,540 36 Place concrete 68 CY \$85.00 \$5,780 37 Reinforcing: 38 Strip footing 455 LBS \$1.05 \$198 39 Isolated footings 900 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 SF \$1.00 \$855	34				·	
36 Place concrete 68 CY \$85.00 \$5,780 37 Reinforcing: 38 Strip footing 455 LBS \$1.05 \$198 39 Isolated footings 900 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 SF \$1.00 \$855	35					
37 Reinforcing: 38 Strip footing 455 LBS \$1.05 \$198 39 Isolated footings 900 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 SF \$1.00 \$855	36	• •			·	
38 Strip footing 455 LBS \$1.05 \$198 39 Isolated footings 900 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 SF \$1.00 \$855	37			0.		
39 Isolated footings 900 LBS \$1.05 \$945 40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 SF \$1.00 \$855	38	-	455	LBS	\$1.05	\$198
40 Foundation/Basement walls 4,350 LBS \$1.05 \$4,568 41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 SF \$1.00 \$855	39	•			\$1.05	\$945
41 Piers 65 LBS \$1.05 \$68 42 WWF for sog 855 SF \$1.00 \$855	40	-			\$1.05	\$4,568
42 WWF for sog 855 SF \$1.00 \$855	41		,		\$1.05	\$68
* · · · · · · · · · · · · · · · · · · ·	42				\$1.00	\$855
YY YY I TOLI DIAD OLI GOOK 100 OLI GOOK 4.100 OLI GOOK	43	WWF for slab on deck	780	SF	\$1.00	\$780
44 Formwork:	44					
45 Strip footing 189 SF \$10.00 \$1,890	45		189	SF	\$10.00	\$1,890
46 Isolated footings 135 SF \$12.00 \$1,620	46				\$12.00	\$1,620
47 Foundation/Basement walls 1,554 SF \$9.00 \$13,986	47	_			\$9.00	\$13,986



BUILDING DETAIL ADDITION (CSI FORMAT)

Sharon Town Hall

Option 1: Accessibility Addition

Sharon, MA 10,715 GSF

49 Cure screed and protect sog						10,715 GSF
49 Cure screed and protect sog		ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
49 Cure screed and protect sog						_
Cure screed and protect slab on deck 780 SF \$2.50 \$1,95 Miscellaneous: Elevator pit Allow for concrete pads and bases 1 LS \$3,000.00 \$3,00 Ferimeter drainage 90 LF \$15.00 \$1,35 Vapor barrier for slab on grade Rigid insulation to slab on grade Rigid insulation to slab on grade Rigid insulation to slab on grade (Note: earthwork included in the sitework allowance) (Note: earthwork included in the sitework allowance) 50 Cure screed and protect slab on \$1,95 \$2.50 \$1,95 \$2.50 \$1,95 \$3,000.00 \$3,00 \$42 \$55 SF \$0.50 \$2,13 \$57 General concrete requirements 1 AL \$2,000.00 \$2,00 \$57,94		Piers	43	SF	\$12.00	\$516
51 Miscellaneous: 52 Elevator pit 1 EA \$5,000.00 \$5,00 53 Allow for concrete pads and bases 1 LS \$3,000.00 \$3,00 54 Perimeter drainage 90 LF \$15.00 \$1,35 55 Vapor barrier for slab on grade 855 SF \$0.50 \$42 56 Rigid insulation to slab on grade 855 SF \$2.50 \$2,13 57 General concrete requirements 1 AL \$2,000.00 \$2,00 58 (Note: earthwork included in the sitework allowance) \$57,94 60 \$57,94		Cure screed and protect sog	855	SF	\$2.50	\$2,138
Elevator pit 1 EA \$5,000.00 \$5,00 \$5,00 \$3,00 \$3,00 \$3,00 \$3,00 \$3,00 \$3,00 \$5,00 \$1 LS \$3,000.00 \$3,00 \$3,00 \$1,35 \$1,3		Cure screed and protect slab on deck	780	SF	\$2.50	\$1,950
53 Allow for concrete pads and bases 1 LS \$3,000.00 \$3,00 54 Perimeter drainage 90 LF \$15.00 \$1,35 55 Vapor barrier for slab on grade 855 SF \$0.50 \$42 56 Rigid insulation to slab on grade 855 SF \$2.50 \$2,13 57 General concrete requirements 1 AL \$2,000.00 \$2,00 58 (Note: earthwork included in the sitework allowance) 59 03 00 00 - Concrete Total 60 \$57,94		Miscellaneous:				
54 Perimeter drainage 90 LF \$15.00 \$1,35 55 Vapor barrier for slab on grade 855 SF \$0.50 \$42 56 Rigid insulation to slab on grade 855 SF \$2.50 \$2,13 57 General concrete requirements 1 AL \$2,000.00 \$2,00 58 (Note: earthwork included in the sitework allowance) \$57,94 60 \$57,94		·			· · · · · · · · · · · · · · · · · · ·	\$5,000
Vapor barrier for slab on grade Rigid insulation to slab on grade SF \$2.50 \$2,13 AL \$2,000.00 \$2,00 Note: earthwork included in the sitework allowance) 903 00 00 - Concrete Total \$57,94		•	1		• ,	\$3,000
Rigid insulation to slab on grade Rigid insulation to slab on grade General concrete requirements (Note: earthwork included in the sitework allowance) 93 00 00 - Concrete Total \$55 SF \$2.50 \$2,13 \$2,000.00 \$2,00 \$57,94	54	Perimeter drainage	90	LF	\$15.00	\$1,350
Figure institution to stab on grade \$2,15 Figure institution to sta	55	Vapor barrier for slab on grade	855	SF	\$0.50	\$428
(Note: earthwork included in the sitework allowance) 59 03 00 00 - Concrete Total 60 \$57,94	56	Rigid insulation to slab on grade	855	SF	•	\$2,138
59 03 00 00 - Concrete Total \$57,94	57	General concrete requirements	1	AL	\$2,000.00	\$2,000
60	58	(Note: earthwork included in the sitework allowance)				
	59	03 00 00 - Concrete Total				\$57,944
61 03-Concrete Total \$57.94	60					
or constitution total	61	03-Concrete Total				\$57,944
62	62					
63	63					
64 04-Masonry		04-Masonry				
65	65					
66 04 20 00 - Unit Masonry	66	04 20 00 - Unit Masonry				
67 Exterior brick to exterior 2,745 SF \$32.00 \$87,84	67	Exterior brick to exterior	2,745	SF	\$32.00	\$87,840
68 Allow for brick detail to exterior	68	Allow for brick detail to exterior				
69 04 20 00 - Unit Masonry Total \$87,84	69	04 20 00 - Unit Masonry Total			_	\$87,840
70	70					
71 04-Masonry Total \$87,84	71	04-Masonry Total				\$87,840
72	72					
73	73					
74 05-Metals	74	05-Metals				
75	75					
⁷⁶ 05 12 00 Structural Steel	76	05 12 00 Structural Steel				
77 Structural steel 12 TNS \$5,000.00 \$61,31	77	Structural steel	12	TNS	\$5,000.00	\$61,313
78 Allow for brick detail to exterior	78	Allow for brick detail to exterior				
79 05 12 00 Structural Steel Total \$61,31	79	05 12 00 Structural Steel Total			_	\$61,313
80	80					
81 05 50 00 - Metal Fabrications	81	05 50 00 - Metal Fabrications				
82 Elevator pit and sills 1 SET \$2,800.00 \$2,80	82	Elevator pit and sills	1	SET	\$2,800.00	\$2,800
83 Elevator ladder 1 SET \$1,200.00 \$1,20	83	Elevator ladder	1	SET	\$1,200.00	\$1,200
84 Stairs 2 FLT \$15,000.00 \$30,00	84	Stairs	2	FLT	\$15,000.00	\$30,000
85 Other misc metals 2,031 SF \$3.00 \$6,09	85	Other misc metals	2,031	SF	\$3.00	\$6,093
86 05 50 00 - Metal Fabrications Total \$40,09						



BUILDING DETAIL ADDITION (CSI FORMAT)

Sharon Town Hall

Option 1: Accessibility Addition

Sharon, MA 10,715 GSF

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
07					
87 88	OF Matala Tatal				\$101,406
89	05-Metals Total				\$101,400
90					
91					
92	06-Woods & Plastics				
93					
94	06 10 00 - Rough Carpentry				
95	Allowance for rough carpentry and blocking internally	2,031	SF	\$3.00	\$6,093
96	06 10 00 - Rough Carpentry Total				\$6,093
97					
98	06 20 00 - Finish Carpentry				.
99	Miscellaneous finish carpentry	2,031	SF	\$5.00 <u> </u>	\$10,155
100 101	06 20 00 - Finish Carpentry Total				\$10,155
101	OC Was de 9 Plantine Tatal				\$16,248
103	06-Woods & Plastics Total				\$10,246
104					
105	07-Thermal & Moisture	l			
106					
107	07 12 00 - Built-Up Bituminous Waterproofing				
108	Dampproofing to foundation walls	777	SF	\$3.50	\$2,720
109	Waterproofing to elevator pit	1	EA	\$2,500.00	\$2,500
110	07 12 00 - Built-Up Bituminous Waterproofing Total				\$5,220
111					
	07 20 00 - Thermal Protection			•	
113	Exterior rigid institution on addition	2,745	SF	\$2.35 <u> </u>	\$6,451
	07 20 00 - Thermal Protection Total				\$6,451
115	07.07.00 At D. :				
	07 27 00 - Air Barrier Air / vapor barrier to walls	2.745	C.E.	ድ ር 50	447.040
	07 27 00 - Air Barrier Total	2,745	SF	\$6.50 <u> </u>	\$17,843 \$17,843
119	VI 21 00 All Bullion Fotol				Ψ11,040
120	07 40 00 - Roofing and Siding Panels				
121	Sarnifil roof; complete	855	SF	\$16.50	\$14.108
122	07 40 00 - Roofing and Siding Panels Total		.	<u> </u>	\$14,108 \$14,108
123	-				
124	07 62 00 - Sheet Metal Flashing and Trim				
	Metal flashings	1	AL	\$5,000.00	\$5,000



Sharon Town Hall Option 1: Accessibility Addition

Sharon, MA 10,715 GSF

FLEMENT	OHANTITY	LINUT	LINIT DATE	10,715 GSF
ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
126 07 62 00 - Sheet Metal Flashing and Trim Total			_	\$5,000
127				ψ5,000
128 07 72 00 - Roof Accessories				
129 Misc. roof accessories	1	LS	\$3,000.00	\$3,000
130 07 72 00 - Roof Accessories Total	•			\$3,000
131				40,000
132 07 84 00 - Firestopping				
133 Firestopping measures - based on floor area	2,031	GSF	\$0.50	\$1,016
134 07 84 00 - Firestopping Total	2,001		_	\$1,016
135				• ,-
136 07 92 00 - Joint Sealants				
137 Caulking and sealing - based on floor area	2,031	GSF	\$1.50	\$3,047
138 07 92 00 - Joint Sealants Total	_,00.		_	\$3,047
139				
07-Thermal & Moisture Total				\$55,682
141				
142				
143 08-Doors & Windows				
144	_			
145 08 10 00 - Doors and Frames				
146 Door frames	9	EA	\$250.00	\$2,250
Door frames in renovated areas	27	EA	\$250.00	\$6,750
148 Ditto; pair	1	EA	\$300.00	\$300
149 Doors	9	EA	\$300.00	\$2,700
150 New doors and existing space	27	EA	\$300.00	\$8,100
151 Ditto; pair	1	PR	\$600.00	\$600
152 Exterior egress doors; complete	1	EA	\$1,500.00	\$1,500
153 08 10 00 - Doors and Frames Total			_	\$22,200
154				
155 08 31 00 - Access Doors and Panels				
¹⁵⁶ Allow for access doors to MEP installation	2	EA	\$300.00	\$600
157 08 31 00 - Access Doors and Panels Total				\$600
158				
08 40 00 - Entrances, Storefront and Curtainwall				
160 Interior vestibule doors	1	PR	\$7,000.00	\$7,000
¹⁶¹ Exterior vestibule doors	1	PR	\$7,000.00	\$7,000
162 Exterior storefront	360	SF	\$95.00	\$34,200
163 Interior storefront	140	SF	\$80.00	\$11,200
164 08 40 00 - Entrances, Storefront and Curtainwall Total				\$59,400



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Sharon Town Hall Option 1: Accessibility Addition

Sharon, MA 10.715 GSF

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				10,715 GSF
ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
165				
166 08 50 00 - Windows				
167 Windows	549	SF	\$75.00	¢/1 175
168 08 50 00 - Windows Total	349	SF	Ψ75.00 <u> </u>	\$41,175 \$41,175
169				Ψ-1,170
170 08 70 00 - Door Hardware				
171 Door hardware	38	EA	\$650.00	\$24,700
Automatic door openers	00	EA	\$2,500.00	NIC
173 08 70 00 - Door Hardware Total		L /\(Ψ2,000.00	\$24,700
174				, ,
175 08 80 00 - Glazing				
176 Interior glazing	72	SF	\$50.00	\$3,600
177 08 80 00 - Glazing Total	- -		<u></u>	\$3,600
178				
179 08 91 00 - Louvers				
180 Architectural louvers	50	SF	\$50.00	\$2,500
181 08 91 00 - Louvers Total				\$2,500
182				
183 08-Doors & Windows Total				\$154,17
184				
185				
186 09-Finishes				
187				
¹⁸⁸ 09 21 16 - Gypsum Wallboard				
Light gage metal framing with Gypsum sheathing	2,745	SF	\$11.00	\$30,195
190 Drywall to interior of exterior	2,745	SF	\$3.25	\$8,921
¹⁹¹ Partitions	1,610	SF	\$7.50	\$12,075
¹⁹² Chase walls	112	SF	\$12.00	\$1,344
¹⁹³ Elevator walls	1,512	SF	\$13.50	\$20,412
¹⁹⁴ Backerboard	576	SF	\$3.00	\$1,728
195 Ceiling; allowance (assume 65% GWB & 35% ACT)	2,031	SF	\$7.00	\$14,207
196 Allow for drywall soffits and new ceiling due to FP	9,080	SF	\$2.00	\$18,160
197 GWB Ceiling at bathroom	134	SF	\$9.00	\$1,208
¹⁹⁸ 09 21 16 - Gypsum Wallboard Total ¹⁹⁹				\$108,250
03 30 00 THC	404	05	# 40.00	00.440
ocianile die noois	134	SF	\$18.00	\$2,416
Octamio wan die at battiloom	576	SF	\$18.00	\$10,368
Octamo die Base	64	LF	\$13.00	\$832
Marbie uncoriolas	2	EA	\$150.00	\$300
ron Town Hall Option 1 Accessibility Addition 11 November 2015. ted 11/11/2015	XIS		I own Hall Ad	ddition Detail Page 9 o



Sharon Town Hall Option 1: Accessibility Addition

Sharon, MA 10,715 GSF

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
		Q 0 / 1 (1)			
205	09 30 00 - Tile Total				\$13,916
206					
207	09 51 00 - ACT Ceilings				
208	ACT Included with GWB ceilings			_	
	09 51 00 - ACT Ceilings Total				
210					
211	09 65 00 - Flooring				
	Flooring	1,637	SF	\$6.00	\$9,821
213	Rubber treads and risers	220	LFR	\$15.50	\$3,410
214	Rubber mooning	40	SF	\$6.50 <u> </u>	\$260
	09 65 00 - Flooring Total				\$13,491
216					
	09 90 00 - Painting				
218	Paint GWB walls	7,701	SF	\$0.75	\$5,776
219	Paint GWB ceilings	1,454	SF	\$1.00	\$1,454
220	Paint doors	9	EA	\$60.00	\$540
221	Paint frames	9	EA	\$40.00	\$360
222 223	Miscellaneous painting	1,635	SF	\$0.25	\$409
	Miscellaneous painting at existing space 09 90 00 - Painting Total	9,080	SF	\$2.50	\$22,700
225	09 90 00 - Painting Total				\$31,239
226	09-Finishes Total				\$166,895
227	09-Finishes Total				ψ100,033
228					
229	10-Specialties				
230	Офесицио				
231	10 11 00 - Visual Display Surfaces				
232	Allow for visual display surfaces	1	AL	\$1,500.00	\$1,500
	10 11 00 - Visual Display Surfaces Total	•	,	<u> </u>	\$1,500
234	, ,				
235	10 14 00 - Signage				
236	Interior building signage	1,635	SF	\$1.00	\$1,635
237	10 14 00 - Signage Total	•		_	\$1,635
238					
239	10 28 00 - Toilet Accessories				
240	Sanitary napkin dispenser, recessed mounted	1	EA	\$350.00	\$350
241	Sanitary napkin disposal, recessed mounted	1	EA	\$75.00	\$75
242	Toilet tissue dispenser	2	EA	\$150.00	\$300
243	Standard mirror	2	EA	\$150.00	\$300



Sharon Town Hall

Option 1: Accessibility Addition

Sharon, MA 10.715 GSF

	ELEMENT	QUANTITY	UNIT	UNIT RATE	10,715 GSF COST
		20/11/11		0	
244	Soap dispenser	2	EA	\$35.00	\$70
245	Grab bars	4	EA	\$150.00	\$600
246	Robe hook	2	EA	\$25.00	\$50
247	Utility shelf/ mop & broom holders	1	EA	\$150.00	\$150
248	Install	15	EA	\$35.00	\$525
249	10 28 00 - Toilet Accessories Total			_	\$2,420
250					
251	10 44 10 The Extinguisher Gubinets				
	Allow recessed fire extinguishers and cabinets	3	EA	\$450.00	\$1,350
	10 44 13 - Fire Extinguisher Cabinets Total				\$1,350
254					40.00
255	10-Specialties Total				\$6,905
256					
257 258		_			
259	11-Equipment				
260	44.50.00 A. P. V. al.F. Paradi				
	11 52 00 - Audio-Visual Equipment Projection screen		EA	\$5,000.00	NIC
	11 52 00 - Audio-Visual Equipment Total		LA	ψ5,000.00 <u> </u>	INIO
263					
264	11-Equipment Total				
265	11-Equipment Total				
266					
267	12-Furnishings				
268					
269	12 20 00 - Window Treatment				
270	Window treatment	909	SF	\$5.00	\$4,545
271	12 20 00 - Window Treatment Total				\$4,545
272					
	12 48 13 - Entrance Mats				
	Entrance mat	70	SF	\$35.00	
	12 48 13 - Entrance Mats Total				\$2,450
276					
277	12-1 diffishings rotal				\$6,995
278					
279					
280	com cymig cyclem				
281					
202	14 20 00 - Elevators				



Sharon Town Hall Option 1: Accessibility Addition

Sharon, MA 10,715 GSF

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
283	Elevator	1	EA	\$110,000.00	\$110,000
284	14 20 00 - Elevators Total				\$110,000
285					
286	14-Conveying System Total				\$110,000
287					
288					
289	21,22,23-Mechanical				
290					
291	21 00 00 - Fire Suppression		0.5	# 4.05	Фоо 100
292	1 3 3 3 3 3 3	9,080	SF	\$4.35	\$39,498
293	-pgg	1,635	SF	\$3.25	\$5,314
294	Seismic Restraints	1	LS	\$1,500.00	\$1,500
	Permits & Fees	1	LS	\$1,000.00	\$1,000
296	Testing	1	LS	\$900.00	\$900 \$750
297 298	Drawings & Calculations	1	LS	\$750.00 <u> </u>	\$750
299	21 00 00 - Fire Suppression Total				\$48,962
300	22 00 00 - Plumbing				
301	-	4	Ε.Δ	# F 000 00	# F 000
302	Water Heater	1	EΑ	\$5,000.00	\$5,000
303	Elevator Sump Pump Fixtures	1	EA	\$2,500.00	\$2,500
304	Water Closet	2	EA	¢2 900 00	¢7 600
305	Lavatory	2	EA	\$3,800.00 \$3,800.00	\$7,600 \$7,600
306	Coring & Cutting	1	LS	\$600.00	\$7,600 \$600
	Test and balance	1	LS	\$700.00	\$700
308	Permits & Fees	1	LS	\$1,000.00	\$1,000
309	Shop drawings	1	LS	\$750.00	\$750
310	22 00 00 - Plumbing Total			·	\$25,750
311	· ·				. ,
312	23 00 00 - HVAC				
313	Allow for HVAC	2,031	LS	\$45.00	\$91,395
314	23 00 00 - HVAC Total	,			\$91,395
315					
316	21,22,23-Mechanical Total				\$166,107
317					
318					
319	26-Electrical				
320		_			
321	26 00 00 - Electrical				



Sharon Town Hall

Option 1: Accessibility Addition

Sharon, MA 10,715 GSF

					10,7 13 001
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
322	Floatrical	2 024	C.E.	#20.00	\$77,178
323	Electrical	2,031	SF	\$38.00_	
324	26 00 00 - Electrical Total				\$77,178
					677 470
325	26-Electrical Total				\$77,178
326					
327		_			
328	31-Earthwork				
329					
330	31 48 00 Underpinning				
331	Excavation	792	CY	\$15.00	\$11,880
332	Trench excavation	45	CY	\$22.00	\$990
333	Elevator pit excavation	1	EA	\$10,000.00	\$10,000
334	Backfill	430	CY	\$9.00	\$3,870
335	Disposal	407	CY	\$15.00	\$6,105
336	Underpinning	9	CY	\$2,000.00	\$18,000
337	31 48 00 Underpinning Total	•	0.	Ψ <u>2</u> ,σσσ.σσ <u> </u>	\$50,845
338					¥ , •
339	31-Earthwork Total				\$50,845
340	JI-LaitiiWork Total				400,040
341					
071					



Sharon Town Hall

Option 1: Accessibility Addition Sharon, MA

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
02 41 00 Demolition				\$6,042
31 10 00 Site Clearing				\$17,616
31 20 00 Earth Moving				\$4,662
31 25 00 Erosion and Sedimentation Controls				\$2,340
32 00 00 Paving				\$11,755
32 30 00 Site Improvements				\$7,364
32 90 00 Plants				\$2,075
33 10 00 Water Distribution				\$0
33 30 00 Sanitary Sewerage				\$0
33 40 00 Storm Drainage				\$0
33 70 00 Electrical Utilities				\$15,000
			_	
	Subto	tal: carried to M	ain Summary	\$66,854



Sharon Town Hall
Option 1: Accessibility Addition
Sharon, MA

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
26	02-BUILDING SITEWORK				
27	00 44 00 Damalitian				
28	02 41 00 Demolition	_	. –	# 40.00	400
29	Saw cut existing pavement allowance	9	LF	\$10.00	\$90
30	R & D existing sidewalk allowance	878	SF	\$2.00	\$1,756
31	Remove existing pavement marking	1,830	SF	\$1.20	\$2,196
32	Trees protection	2	EA	\$250.00	\$500
33	Misc. demolition other than above 02 41 00 DemolitionTotal	1	LS	\$1,500.00	\$1,500
34	02 41 00 Demoition Fotal				\$6,042
35					
36	31-EARTHWORK				
37	31-LAKITIWOKK				
38 39	31 10 00 Site Clearing				
40	Site clearing allowance	1	LS	\$1,500.00	\$1,500
41	Construction fence, install & maintain allowance	468	LF	\$12.00	\$5,616
42	Double construction gate allowance	1	EA	\$2,500.00	\$2,500
43	Temporary construction entrance	1	AL	\$6,500.00	\$6,500
44	Temp signs	1	LS	\$1,500.00	\$1,500
45	31 10 00 Site ClearingTotal	•	20	Ψ1,000.00	\$17,616
46	or to so one croaming rotal				ψ11,010
47	31 20 00 Earth Moving				
48	Building pad excavation and fill				See Building
49	Remove & stockpile topsoil	1	LS	\$300.00	\$300
50	Fine grade	1,370	SF	\$0.50	\$685
51	Cuts and fills - site grade	29	CY	\$8.00	\$233
52	Cuts and fills of concrete pavement	53	CY	\$9.00	\$476
53	Gravel base to parking lot & sidewalk	30	CY	\$30.00	\$900
54	Export soil	115	CY	\$18.00	\$2,068
55	31 20 00 Earth Moving Total			_	\$4,662
56					
57	31 25 00 Erosion and Sedimentation Controls				
58	Hay bales and silt fence allowance	234	LF	\$10.00	\$2,340
59	31 25 00 Erosion and Sedimentation Controls Total				\$2,340
60					
61					
62	32-EXTERIOR IMPROVEMENTS				
63					
64	32 00 00 Paving				
65	32 13 13 Concrete Paving				
66	Concrete sidewalk	1,137	SF	\$6.00	\$6,822
67	Flush handicap accessible entrance	25	SF	\$8.00	\$200



Sharon Town Hall
Option 1: Accessibility Addition
Sharon, MA

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
					_
68	Curb cut	4	EA	\$350.00	\$1,400
69	Concrete ramp with Detectable waring strips	208	SF	\$12.00	\$2,496
70	32 17 23 Pavement Markings				•
71	Pavement marking	86	SF	\$2.00	\$172
72	Parking stall painting	4	EA	\$35.00	\$140
73	Parking stall painting; HC	3	EA	\$75.00	\$225
74	Misc. marking	1	LS	\$300.00	\$300
75	32 00 00 Paving Total				\$11,755
76					
77	32 30 00 Site Improvements			•	
78	Concrete landing	32	SF	\$12.00	\$384
79	Concrete steps per riser	24	LFR	\$75.00	\$1,800
80	Handrail	14	LF	\$120.00	\$1,680
81	Allow for benches	1	LS		NIC
82	Allow for Trash / Recycle receptacles	1	EA		NIC
83	Misc. site improvement other than above	1	LS	\$3,500.00	\$3,500
84	32 30 00 Site Improvements Total				\$7,364
85	00.00.00.00				
86	32 90 00 Plants				
87	32 92 10 Soil Preparation for Lawn Establishment			Фооо оо	# 000
88	Respread stockpiled topsoil	1	LS	\$300.00	\$300
89	Imported topsoil for new lawn	1	LS	\$200.00	\$200
90	32 92 20 Turf and Grasses	4 575	05	0.1 0.0	04 575
91	Lawn	1,575	SF	\$1.00	\$1,575
92	32 90 00 Plants Total				\$2,075
93					
94	OO LITH ITIES	ı			
95	33-UTILITIES	l			
96	22 40 00 Water Distribution				
97	33 10 00 Water Distribution				¢ο
98	No work shown in this section			_	\$0
99	33 10 00 Water Distribution Total				\$0
100	22 20 00 Sanitary Sawaraga				
101	33 30 00 Sanitary Sewerage No work shown in this section				
102	33 30 00 Sanitary Sewerage Total			_	\$0
103	33 30 00 Samlary Sewerage Tolar				Φ0
104	33 40 00 Storm Drainage				
105	No work shown in this section				
	33 40 00 Storm Drainage Total			_	\$0
107	33 40 00 Storin Dramage Total				φU
108					
109					
110					



Sharon Town Hall

Option 1: Accessibility Addition

Sharon, MA

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
				_
111 33 70 00 Electrical Utilities				
112 Site electrical; allow	1	AL	\$15,000.00	\$15,000
113 33 70 00 Electrical Utilities Total			•	\$15,000



Sharon Town Hall Option 2: Renovation and Addition Sharon, MA

November 11, 2015

Conceptual Estimate

Architect:

Kaestle Boos 325 Foxborough Boulevard, Suite 100 Foxborough, MA 02035 (508) 549 9906 **Cost Consultant:**

Daedalus Projects, Inc. 112 South Street Boston, MA 02111 (617) 451 2717



Sharon Town Hall Option 2: Renovation and Addition

Sharon, MA

INTRODUCTION

Project Description:

Construction of a new addition and renovation to the existing Town Hall

Project Particulars:

- Estimate is based off the following information:
 Drawings received from KBA at their office on September 21, 2015
- Daedalus Projects, Inc. experience with similar projects of this nature.

Project Assumptions:

- Our costs assume that there will be at least three subcontractors submitting unrestricted bids in each subtrade, and at least four General Contractors.
- Unit rates are based on current dollars.
- An escalation allowance to the start of construction has been included in the summary
- Subcontractor's markups have been included in each unit rate. Markups cover the cost of field overhead, home office overhead and subcontractor's profit.
- Design and Pricing Contingency markup is an allowance for unforeseen design issues, design detail development and specification clarifications.
- General Conditions and Requirements value covers Sub-Contractor's bond, site office overheads, and building permit applications.
- Fee markup is calculated on a percentage basis of direct construction costs. The value covers Contractor's bond, insurance and profit.
- Labor will be at prevailing wages.



MAIN SUMMARY

Sharon Town Hall Sharon, MA 13,638 NSF

DECORPTION			TOTAL	13,638 NSF
DESCRIPTION			TOTAL	COST/GSF
Town Hall Addition and Renovation		13,638 GSF	\$3,298,493	\$241.86
Town Hall Addition and Renovation		10,000 001	ψ5,230,433	Ψ241.00
Sitework			\$163,853	
	Total	13,638 GSF	\$3,462,346	\$253.87
Design Contingency	15.00%	\$3,462,346	\$519,352	\$38.08
Total Direct Cost			\$3,981,698	\$291.96
Total Direct Cost			\$3,961,096	\$291.90
<u>Markup</u>				
General Conditions & Requirements	8.50%	\$3,981,698	\$338,444	\$24.82
Insurance	1.40%	\$4,320,142	\$60,482	\$4.43
	0.050/	# 4.000.004	407.005	40.70
Bond	0.85%	\$4,380,624	\$37,235	\$2.73
Permit	1.50%		Waived	
T GITTIR	1.5070		vvaived	
Fee	5.00%	\$4,417,860	\$220,893	\$16.20
Total Construction			\$4,638,752	\$340.13
Escalation to 4th Quarter 2016	5.42%	\$4,638,752	\$251,266	\$18.42
Escalation to 4th Quarter 2010	J.42 /0	ψ4,030,732	Ψ231,200	\$10.42
Total Construction			\$4,890,018	\$358.56



TOWN HALL BUILDING SUMMARY ADDITION (CSI FORMAT)

Sharon Town Hall Sharon, MA

ELEMENT	COST	13,638 GSF COST/SF
ELLWENT	0031	0031/31
02-Existing Conditions	\$66,296	\$4.86
03-Concrete	\$152,350	\$11.17
04-Masonry	\$203,392	\$14.91
05-Metals	\$257,629	\$18.89
06-Woods & Plastics	\$245,484	\$18.00
07-Thermal & Moisture	\$204,042	\$14.96
08-Doors & Windows	\$241,940	\$17.74
09-Finishes	\$561,265	\$41.15
10-Specialties	\$31,178	\$2.29
11-Equipment		
12-Furnishings	\$12,741	\$0.93
14-Conveying System	\$110,000	\$8.07
21 00 00 - Fire Suppression	\$55,527	\$4.07
22 00 00 - Plumbing	\$43,100	\$3.16
23 00 00 - HVAC	\$518,244	\$38.00
26-Electrical	\$490,968	\$36.00
31-Earthwork	\$104,337	\$7.65
Subtotal Carried to Main Summary	\$3,298,493	\$241.86

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
9	02-Existing Conditions				
10					
11	02 41 00 - Demolition				
12	Interior demolition of existing	6,412	SF	\$8.00	\$51,296
13	Allow for cutting and patching	1	AL	\$15,000.00	\$15,000
	Hazardous abatement				NIC
15	02 41 00 - Demolition Total				\$66,296
16					
17	02-Existing Conditions Total				\$66,296
18					
19		_			
20	03-Concrete				
21					
22	03 00 00 - Concrete				
23	Concrete:	227	lf	#405.00	#0.050
24	Strip footing	18	CY	\$125.00	\$2,250
25	Isolated footings	18	CY	\$125.00 \$125.00	\$2,250
26 27	Foundation/Basement walls	106	CY	\$125.00	\$13,250
28	Piers	2	CY	\$125.00	\$250
29	Slab on Grade	47	CY	\$130.00 \$140.00	\$6,110 \$8,400
30	Upper decks	60	CY	\$140.00	\$8,400
31	Place concrete	251	CY	\$85.00	\$21,335
32	Reinforcing:			\$1.05	\$501
33	Strip footing	1,170	LBS	\$1.05 \$1.05	\$2,835
34	Isolated footings	2,700	LBS	\$1.05 \$1.05	\$2,635 \$16,695
35	Foundation/Basement walls	15,900	LBS	\$1.05 \$1.05	\$137
36	Piers	130	LBS	\$1.00	\$2,850
37	WWF for slob on dook	2,850	SF	\$1.00	\$4,376
38	WWF for slab on deck	4,376	SF	Ψ1.00	ψ+,57 σ
39	Formwork: Strip footing	477	SF	\$10.00	\$4,770
40	Isolated footings	384	SF	\$12.00	\$4,608
41	Foundation/Basement walls	1,554	SF	\$9.00	\$13,986
42	Piers	1,554	SF	\$12.00	\$1,728
43	Cure screed and protect sog	2,850	SF	\$2.50	\$7,125
44	Cure screed and protect slab on deck	4,376	SF	\$2.50 \$2.50	\$10,940
45	Miscellaneous:	7,570	51	Ψ2.00	,-
46	Elevator pit	1	EA	\$5,000.00	\$5,000
47	Allow for concrete pads and bases	1	LS	\$3,000.00	\$3,000
	1	•	_	. ,	,

					13,638 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
					_
48	Perimeter drainage	227	LF	\$15.00	\$3,405
49	Vapor barrier for slab on grade	2,850	SF	\$0.50	\$1,425
50	Rigid insulation to slab on grade	2,850	SF	\$2.50	\$7,125
51	General concrete requirements	1	AL	\$8,000.00	\$8,000
52	(Note: earthwork included in the sitework allowance)			_	
53	03 00 00 - Concrete Total				\$152,350
54 55					#450.050
56	03-Concrete Total				\$152,350
57					
58	04-Masonry				
59	04-WaSOTH y				
60	04.00.00				
61	04 20 00 - Unit Masonry Exterior brick to exterior	6,356	SF	\$32.00	\$203,392
62	Allow for brick detail to exterior	0,000	O.	Ψ02.00	\$200,002
63	04 20 00 - Unit Masonry Total			_	\$203,392
64	5. 20 00 C				4 200,002
65	04-Masonry Total				\$203,392
66	or massiny rotal				. ,
67					
68	05-Metals				
69		_			
70	05 12 00 Structural Steel				
71	Structural steel	54	TNS	\$3,600.00	\$195,102
72	Allow for brick detail to exterior				
73	05 12 00 Structural Steel Total				\$195,102
74					
75	05 50 00 - Metal Fabrications				
76	Elevator pit and sills	1	SET	\$2,800.00	\$2,800
77	Elevator ladder	1	SET	\$1,200.00	\$1,200
78	Add railings to existing stairs	4	FLT	\$3,500.00	\$14,000
79	Other misc metals	7,226	SF	\$3.50	\$25,291
80	Miscellaneous metals to existing	6,412	SF	\$3.00	\$19,236
81	05 50 00 - Metal Fabrications Total				\$62,527
82					*057.000
83 84	05-Metals Total				\$257,629
85					
86					
00					

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
		_			
87	06-Woods & Plastics				
88					
89	06 10 00 - Rough Carpentry				
90	Allowance for rough carpentry and blocking internally	13,638	SF	\$3.00_	\$40,914
91	06 10 00 - Rough Carpentry Total				\$40,914
92					
93	06 20 00 - Finish Carpentry			.	
94	Miscellaneous finish carpentry	13,638	SF	\$15.00 	\$204,570
95	06 20 00 - Finish Carpentry Total				\$204,570
96 97					#245 404
98	06-Woods & Plastics Total				\$245,484
99					
100	07-Thermal & Moisture				
101	or mornial a molecule				
102	07 12 00 - Built-Up Bituminous Waterproofing				
103	Dampproofing to foundation walls	777	SF	\$3.50	\$2,720
104	Waterproofing to elevator pit	1	EA	\$2,500.00	\$2,500
105	07 12 00 - Built-Up Bituminous Waterproofing Total	•	_, ,	<u> </u>	\$5,220
106					
107	07 20 00 - Thermal Protection				
108	Exterior rigid insulation on addition	6,356	SF	\$2.35	\$14,937
109	07 20 00 - Thermal Protection Total				\$14,937 \$14,937
110					
111	07 27 00 - Air Barrier				
112	Air / vapor barrier to walls	6,356	SF	\$6.50	\$41,314
113	07 27 00 - Air Barrier Total				\$41,314
114					
	07 40 00 - Roofing and Siding Panels				
	Sarnifil roof; complete	5,624	SF	\$16.50	\$92,796
	07 40 00 - Roofing and Siding Panels Total				\$92,796
118					
119	07 62 00 - Sheet Metal Flashing and Trim		A.I.		
	Metal flashings	1	AL	\$15,000.00	\$15,000
	07 62 00 - Sheet Metal Flashing and Trim Total				\$15,000
122					
123	07 72 00 - Roof Accessories Misc. roof accessories	4	LS	\$7,500.00	\$7 500
	07 72 00 - Roof Accessories Total	1	LS	φι,ουυ.υυ	\$7,500 \$7,500
123	UI 12 UU - ROOI ACCESSOTIES TOTAL				\$7,500

	21 2				13,638 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
400					
126					
127	07 84 00 - Firestopping		005	\$0.50	C C 040
	Firestopping measures - based on floor area	13,638	GSF	\$0.50_	\$6,819
130	07 84 00 - Firestopping Total				\$6,819
131	07.00.00				
	07 92 00 - Joint Sealants Caulking and sealing - based on floor area	42.620	GSF	\$1.50	\$20,457
	07 92 00 - Joint Sealants Total	13,638	GGI	Ψ1.30 <u> </u>	\$20,457
134	07 32 00 - John Sealants Total				φ20,437
135	07-Thermal & Moisture Total				\$204,042
136	07-Thermal & Moisture Total				Ψ204,042
137					
138	08-Doors & Windows				
139					
140	08 10 00 - Doors and Frames				
141	Door frames	42	EA	\$250.00	\$10,500
142	Ditto; pair	1	EA	\$300.00	\$300
143		42	EA	\$300.00	\$12,600
144	Ditto; pair	1	PR	\$600.00	\$600
145	Exterior egress doors; complete	1	EA	\$1,500.00	\$1,500
146	08 10 00 - Doors and Frames Total			_	\$25,500
147					
148	08 31 00 - Access Doors and Panels				
149	Allow for access doors to MEP installation	1	LS	\$2,500.00	\$2,500
150	08 31 00 - Access Doors and Panels Total			_	\$2,500
151					
152	08 40 00 - Entrances, Storefront and Curtainwall				
153	Interior vestibule doors	1	PR	\$7,000.00	\$7,000
154	Exterior vestibule doors	1	PR	\$7,000.00	\$7,000
155	Exterior storefront	360	SF	\$95.00	\$34,200
156	Interior storefront	210	SF	\$80.00	\$16,800
	08 40 00 - Entrances, Storefront and Curtainwall Total				\$65,000
158					
159	Thindows				
	Windows	1,271	SF	\$75.00 <u> </u>	
	08 50 00 - Windows Total				\$95,340
162					
	08 70 00 - Door Hardware			•	.
104	Door hardware	44	EA	\$650.00	\$28,600

					13,638 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
165 166 167	Automatic door openers 08 70 00 - Door Hardware Total	2	EA	\$2,500.00	\$5,000 \$33,600
168	08 80 00 - Glazing				
169	Interior glazing	1	LS	\$15,000.00	\$15,000
170		•	LO	Ψ13,000.00	\$15,000
171	G				. ,
172	08 91 00 - Louvers				
173	Architectural louvers	100	SF	\$50.00	\$5,000
174	08 91 00 - Louvers Total				\$5,000
175					
176	08-Doors & Windows Total				\$241,940
177					
178		_			
179	09-Finishes				
180					
181	09 21 16 - Gypsum Wallboard			444.00	
182	Light gage metal framing with Gypsum sheathing	6,356	SF	\$11.00	\$69,916
183	Drywaii to interior of exterior	6,356	SF	\$3.25	\$20,657
184	Partitions	8,762	SF	\$7.50	\$65,715
185	Chase walls	360	SF	\$12.00	\$4,320
186	Elevator walls	1,512	SF	\$13.50	\$20,412
187	Backerboard	1,188	SF	\$3.00	\$3,564
188	Ceiling; allowance (assume 65% GWB & 35% ACT) Allow for drywall soffits and new ceiling due to FP	14,034	SF	\$7.00 \$2.00	\$98,168
190	•	6,412	SF	\$2.00	\$12,824 \$295,576
191	0321 10 - Oypsum Wanbourd Total				Ψ233,310
	09 30 00 - Tile				
	Ceramic tile floors	312	SF	\$18.00	\$5,616
	Ceramic Wall tile at bathroom	1,188	SF	\$18.00	\$21,384
	Ceramic tile Base	132	LF	\$13.00	\$1,716
196	Marble thresholds	4	EA	\$150.00	\$600
197		-	_, .	<u> </u>	\$29,316
198					• •
199	09 51 00 - ACT Ceilings				
200	-				
	09 51 00 - ACT Ceilings Total			_	
202					
203	09 65 00 - Flooring				
204	Flooring	12,956	SF	\$12.00	\$155,473
haron	Town Hall Option 2 Renovation and Addition 11 November 20	•			ddition Detail C

					13,638 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
205			. ==	4.	 .
206	Rubber treads and risers	440	LFR	\$15.50	\$6,820
	Rubber flooring	40	SF	\$6.50 <u> </u>	\$260
208	09 65 00 - Flooring Total				\$162,553
209	09 90 00 - Painting				
210	Paint GWB walls	26,112	SF	\$0.75	\$19,584
	Paint GWB ceilings	9,122	SF	\$1.00	\$9,122
	Paint doors	42	EA	\$60.00	\$2,520
213	Paint frames	42	EA	\$40.00	\$1,680
214	Miscellaneous painting at existing space	13,638	SF	\$3.00_	\$40,914
	09 90 00 - Painting Total				\$73,820
216					
217218	09-Finishes Total				\$561,265
219					
220	10-Specialties				
221	To openiation				
222	10 11 00 - Visual Display Surfaces				
223	Allow for visual display surfaces	1	AL	\$10,000.00	\$10,000
	10 11 00 - Visual Display Surfaces Total	•	AL	φ10,000.00	\$10,000
225	10 11 00 Violai Biopiay Gariagoo Fotal				ψ10,000
226	10 14 00 - Signage				
227	Interior building signage	13,638	SF	\$1.00	\$13,638
228	10 14 00 - Signage Total			_	\$13,638
229					,
230	10 28 00 - Toilet Accessories				
231	Sanitary napkin dispenser, recessed mounted	2	EA	\$350.00	\$700
232	Sanitary napkin disposal, recessed mounted	2	EA	\$75.00	\$150
	Toilet tissue dispenser	4	EA	\$150.00	\$600
	Standard mirror	4	EA	\$150.00	\$600
235		4	EA	\$35.00	\$140
236	Grab bars	8	EA	\$150.00	\$1,200
	Robe hook	4	EA	\$25.00	\$100
238	Utility shelf/ mop & broom holders	2	EA	\$150.00	\$300
	Install	30	EA	\$35.00	\$1,050
	10 28 00 - Toilet Accessories Total	30	_, 、	Ψοσ.σσ	\$4,840
241	TO T				ψ-1,0-10
242	10 44 13 - Fire Extinguisher Cabinets				
243	Allow recessed fire extinguishers and cabinets	6	EA	\$450.00	\$2,700
	Allow recessed life extilliguisticis and capillers	0	LA	Ψ430.00	φ∠,100

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
244 245	10 44 13 - Fire Extinguisher Cabinets Total				\$2,700
246	10-Specialties Total				\$31,178
247					
248					
249 250	11-Equipment				
251	44.50.00 A. P. V. al F. Janes				
	11 52 00 - Audio-Visual Equipment Projection screen		EA	\$5,000.00	NIC
	11 52 00 - Audio-Visual Equipment Total		LA	Ψ3,000.00	
254	11 02 00 Addio Visual Equipment Total				
255	11-Equipment Total				
256					
257					
258	12-Furnishings				
259					
260	12 20 00 - Window Treatment			.	
	Window treatment	1,631	SF	\$5.00 <u> </u>	\$8,156
262	12 20 00 - Window Treatment Total				\$8,156
	40.40.40 Entrares Mate				
	12 48 13 - Entrance Mats Entrance mat	131	or.	\$25.00	44 EQE
	12 48 13 - Entrance Mats Total	131	SF	\$35.00	\$4,585 \$4,585
267	12 10 10 2ano maio rota.				V 1,000
268	12-Furnishings Total				\$12,741
269					
270					
	14-Conveying System				
272					
	14 20 00 - Elevators	_		*	*
	Elevator	1	EA	\$110,000.00	\$110,000
276	14 20 00 - Elevators Total				\$110,000
277	14-Conveying System Total				\$110,000
278	14-conveying system rotal				ψ110,000
279					
280	21,22,23-Mechanical				
281		•			
282	21 00 00 - Fire Suppression				

					13,638 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
	Sprinkler Coverage	6,412	SF	\$4.35	\$27,892
284	Sprinkler Coverage within new	7,226	SF	\$3.25	\$23,485
	Seismic Restraints	1	LS	\$1,500.00	\$1,500
	Permits & Fees	1	LS	\$1,000.00	\$1,000
287	3	1	LS	\$900.00	\$900
288	Drawings & Calculations	1	LS	\$750.00 _	\$750
289	21 00 00 - Fire Suppression Total				\$55,527
290					
291	22 00 00 - Plumbing				
292	Water Heater	1	EA	\$5,000.00	\$5,000
293	Elevator Sump Pump	1	EA	\$2,500.00	\$2,500
294	Fixtures				
295	Water Closet	4	EA	\$3,800.00	\$15,200
296	Lavatory	4	EA	\$3,800.00	\$15,200
297	Coring & Cutting	1	LS	\$1,500.00	\$1,500
298	Test and balance	1	LS	\$1,000.00	\$1,000
299	Permits & Fees	1	LS	\$1,500.00	\$1,500
300	Shop drawings	1	LS	\$1,200.00	\$1,200
301	22 00 00 - Plumbing Total			_	\$43,100
302					
303	23 00 00 - HVAC				
304	Allow for HVAC	13,638	LS	\$38.00	\$518,244
305	23 00 00 - HVAC Total	ŕ		_	\$518,244
306					
307	21,22,23-Mechanical Total				\$616,871
308	,				
309					
310	26-Electrical				
311		•			
312	26 00 00 - Electrical				
313	Electrical	13,638	SF	\$36.00	\$490,968
	26 00 00 - Electrical Total	10,000	O.	<u></u>	\$490,968
315					. ,
316	26-Electrical Total				\$490,968
317					,
318					
	31-Earthwork				
320		•			
	31 48 00 Underpinning				
•	oo oo ondorpining				

Sharon Town Hall Sharon, MA

BUILDING DETAIL ADDITION (CSI FORMAT)

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
322 Excavation	2,639	CY	\$15.00	\$39,585
323 Trench excavation	155	CY	\$22.00	\$3,410
324 Elevator pit excavation	1	EA	\$10,000.00	\$10,000
325 Backfill	1,428	CY	\$9.00	\$12,852
326 Disposal	1,366	CY	\$15.00	\$20,490
327 Underpinning	9	CY	\$2,000.00	\$18,000
328 31 48 00 Underpinning Total				\$104,337
329				
330 31-Earthwork Total				\$104,337
331				
332				
333				
334				



Sharon Town Hall

\$163,853

Option 2: Renovation and Addition Sharon, MA

Subtotal: carried to Main Summary

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
02 41 00 Demolition				\$11,216
31 10 00 Site Clearing				\$21,012
31 20 00 Earth Moving				\$10,674
31 25 00 Erosion and Sedimentation Controls				\$3,130
32 00 00 Paving				\$50,883
32 30 00 Site Improvements				\$7,700
32 90 00 Plants				\$9,239
33 10 00 Water Distribution				\$0
33 30 00 Sanitary Sewerage				\$0
33 40 00 Storm Drainage				\$0
33 70 00 Electrical Utilities				\$50,000
			_	



Sharon Town Hall Option 2: Renovation and Addition Sharon, MA

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
		ı			
25	02-BUILDING SITEWORK				
26					
27	02 41 00 Demolition				
28	Saw cut existing pavement allowance	144	LF	\$8.00	\$1,152
29	R & D existing sidewalk allowance	1,328	SF	\$1.50	\$1,992
30	Remove existing pavement marking	3,034	SF	\$1.00	\$3,034
31	Remove existing pavement	2,030	SF	\$1.25	\$2,538
32	Trees removal	2	EA	\$250.00	\$500
33	Misc. demolition other than above	1	LS	\$2,000.00	\$2,000
34	02 41 00 DemolitionTotal				\$11,216
35					
36 37	31-EARTHWORK				
38	31-LAKITIWOKK				
39	31 10 00 Site Clearing				
40	Site Clearing allowance	1	LS	\$1,500.00	\$1,500
41	8' Construction fence, install & maintain allowance	626	LF	\$12.00	\$7,512
42	Double construction gate allowance	1	EA	\$2,500.00	\$2,500
43	Temporary construction entrance	1	AL	\$6,500.00	\$6,500
44	Temp signs	1	LS	\$1,500.00	\$1,500
45	Allow for wash down/re-fueling	1,000	SF	\$1.50	\$1,500
46	31 10 00 Site ClearingTotal	,		· –	\$21,012
47	•				
48	31 20 00 Earth Moving				
49	Building pad excavation and fill				See Building
50	Remove & stockpile topsoil	1	LS	\$400.00	\$400
51	Cuts and fills - site grade	76	CY	\$8.00	\$608
52	Cuts and fills of asphalt pavement	67	CY	\$9.00	\$603
53	Cuts and fills of concrete pavement	89	CY	\$9.00	\$805
54	Fine grade	3,963	SF	\$0.50	\$1,982
55	Gravel base to parking lot & sidewalk	91	CY	\$25.00	\$2,272
56	Export soil	200	CY	\$20.00	\$4,004
57	31 20 00 Earth Moving Total				\$10,674
58					
59	31 25 00 Erosion and Sedimentation Controls				
60	Hay bales and silt fence allowance	313	LF	\$10.00 _	\$3,130
61	31 25 00 Erosion and Sedimentation Controls Total				\$3,130
62					
63	20 EVTERIOR IMPROVEMENTO	l			
64	32-EXTERIOR IMPROVEMENTS				
65	22 00 00 Paving				
66	32 00 00 Paving				



Sharon Town Hall Option 2: Renovation and Addition Sharon, MA

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
67	32 00 00 Asphalt Paving				
68	Asphalt concrete paving at parking lot	1,000	SF	\$3.00	\$3,000
69	32 13 13 Concrete Paving				
70	Concrete sidewalk	2,245	SF	\$6.00	\$13,470
71	Reinforced concrete pad	195	SF	\$0.50	\$98
72	Curb cut	2	EA	\$350.00	\$700
73	Concrete ramp with (With Foundation)	1	LS	\$10,000.00	\$10,000
74	32 16 00 Curbs and Gutters				
75	Vertical granite curb	287	LF	\$34.00	\$9,758
76	32 14 00 Unit Pavers				
77	Unit pavers	824	SF	\$15.00	\$12,360
78	32 17 23 Pavement Markings				_
79	Pavement marking	86	SF	\$2.00	\$172
80	Parking stall painting	15	EA	\$35.00	\$525
81	Parking stall painting; HC	4	EA	\$75.00	\$300
82	Misc. marking	1	LS	\$500.00	\$500
83	32 00 00 Paving Total				\$50,883
84					
85	32 30 00 Site Improvements				
86	Allow for benches	1	LS	\$3,600.00	\$3,600
87	Allow for Trash / Recycle receptacles	1	EA	\$600.00	\$600
88	Misc. site improvement other than above	1	LS	\$3,500.00	\$3,500
89	32 30 00 Site Improvements Total				\$7,700
90	00.00.00.01				
91	32 90 00 Plants				
92	32 92 10 Soil Preparation for Lawn Establishment			Фооо оо	Ф000
93	Respread stockpiled topsoil	1	LS	\$600.00	\$600
94	Imported topsoil for plant bed	37	CY	\$25.00	\$925
95	Mulch	4	CY	\$45.00	\$180
96	32 92 20 Turf and Grasses			• • • • •	
97	Lawn	2,134	SF	\$1.00	\$2,134
98	32 93 00 Plants				
99	Shrubs	36	EA	\$150.00 <u> </u>	\$5,400
100	32 90 00 Plants Total				\$9,239
101	00 11711 1717 0				
102	33-UTILITIES				
103	00 40 00 Maran Distribution				
104	33 10 00 Water Distribution				ው
105	No work shown in this section			_	\$0
106	33 10 00 Water Distribution Total				\$0
107	22 20 00 Comitowy Courages				
108	33 30 00 Sanitary Sewerage				
109	No work shown in this section				



Sharon Town Hall
Option 2: Renovation and Addition
Sharon, MA

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
110 33 30 00 Sanitary Sewerage Total			_	\$0
111				**
112 33 40 00 Storm Drainage				
113 No work shown in this section				
114 33 40 00 Storm Drainage Total				\$0
115				
116 33 70 00 Electrical Utilities				
117 Site electrical	1	AL	\$50,000.00	\$50,000
118 33 70 00 Electrical Utilities Total			_	\$50,000



Sharon Town Hall Option 3: New Construction Sharon, MA

November 11, 2015

Conceptual Estimate

Architect:

Kaestle Boos 325 Foxborough Boulevard, Suite 100 Foxborough, MA 02035 (508) 549 9906 **Cost Consultant:**

Daedalus Projects, Inc. 112 South Street Boston, MA 02111 (617) 451 2717



Sharon Town Hall
Option 3: New Construction
Sharon, MA

INTRODUCTION

Project Description:

- Construction of new addition to the existing Town Hall
- Renovation to the existing Town Hall only at removed staircase
- An allowance has been carried for sitework

Project Particulars:

- Estimate is based off the following information:
 Drawings received from KBA at their office on September 21, 2015
- Daedalus Projects, Inc. experience with similar projects of this nature.

Project Assumptions:

- Our costs assume that there will be at least three subcontractors submitting unrestricted bids in each subtrade, and at least four General Contractors.
- Unit rates are based on current dollars.
- An escalation allowance to the start of construction has been included in the summary
- Subcontractor's markups have been included in each unit rate. Markups cover the cost of field overhead, home office overhead and subcontractor's profit.
- Design and Pricing Contingency markup is an allowance for unforeseen design issues, design detail development and specification clarifications.
- General Conditions and Requirements value covers Sub-Contractor's bond, site office overheads, and building permit applications.
- Fee markup is calculated on a percentage basis of direct construction costs. The value covers Contractor's bond, insurance and profit.
- Labor will be at prevailing wages.



Sharon Town Hall

Option 3: New Construction

Sharon, MA

16,128 NSF

MAIN SUMMARY

DESCRIPTION			TOTAL	COST/GSF
Town Hall Addition		16,128 GSF	\$4,530,848	\$280.93
Sitework			\$851,695	
	Total	16,128 GSF	\$5,382,543	\$333.74
Design Contingency	15.00%	\$5,382,543	\$807,381	\$50.06
Total Direct Cost			\$6,189,924	\$383.80
<u>Markup</u>				
General Conditions & Requirements	8.50%	\$6,189,924	\$526,144	\$32.62
Insurance	1.40%	\$6,716,068	\$94,025	\$5.83
Bond	0.85%	\$6,810,093	\$57,886	\$3.59
Permit	1.50%		Waived	
Fee	5.00%	\$6,867,979	\$343,399	\$21.29
Total Construction			\$7,211,378	\$447.13
Escalation to 4th Quarter 2016	5.42%	\$7,211,378	\$390,616	\$24.22
Total Construction			\$7,601,994	\$471.35



TOWN HALL BUILDING SUMMARY ADDITION (CSI FORMAT)

Sharon Town Hall

Option 3: New Construction

ELEMENT	COST	COST/SF
02-Existing Conditions	\$48,663	\$3.02
03-Concrete	\$233,307	\$14.47
04-Masonry	\$297,360	\$18.44
05-Metals	\$539,605	\$33.46
06-Woods & Plastics	\$324,737	\$20.13
07-Thermal & Moisture	\$295,493	\$18.32
08-Doors & Windows	\$327,169	\$20.29
09-Finishes	\$760,001	\$47.12
10-Specialties	\$32,768	\$2.03
11-Equipment		
12-Furnishings	\$27,126	\$1.68
14-Conveying System	\$90,000	\$5.58
21 00 00 - Fire Suppression	\$72,694	\$4.51
22 00 00 - Plumbing	\$43,100	\$2.67
23 00 00 - HVAC	\$677,376	\$42.00
26-Electrical	\$645,120	\$40.00
31-Earthwork	\$116,331	\$7.21
32-Exterior Improvements		
Subtotal Carried to Main Summary	\$4,530,848	\$280.93



Sharon Town Hall Option 3: New Construction

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
9	02-Existing Conditions				
10					
11	02 41 00 - Demolition				
12	Demolition of existing building	96,180	CF	\$0.35	\$33,663
13	Allow for cutting and patching	1	AL	\$15,000.00	\$15,000
14	Hazardous abatement				NIC
15	02 41 00 - Demolition Total				\$48,663
16					
17	02-Existing Conditions Total				\$48,663
18					
19		_			
20	03-Concrete				
21					
22	03 00 00 - Concrete				
23	Concrete:	400	lf	#405.00	#0.07 5
24	Strip footing	31	CY	\$125.00	\$3,875
25	Isolated footings	42	CY	\$125.00	\$5,250
26	Foundation walls	68	CY	\$125.00	\$8,500
27 28	Piers	6	CY	\$125.00	\$750
29	Slab on Grade	132	CY	\$130.00	\$17,160
30	Upper decks	60	CY	\$140.00	\$8,400
	Place concrete	339	CY	\$85.00	\$28,815
31 32	Reinforcing:			\$4.05	#070
33	Strip footing	2,015	LBS	\$1.05 \$1.05	\$970 \$6,615
34	Isolated footings	6,300	LBS	\$1.05 \$1.05	\$10,710
35	Foundation walls	10,200	LBS	\$1.05 \$1.05	\$10,710 \$410
36	Piers	390	LBS	\$1.00	\$8,064
37	WWF for sog	8,064	SF	\$1.00	\$4,376
38	WWF for slab on deck	4,376	SF	Ψ1.00	φ4,370
39	Formwork:	004	or.	\$10.00	\$9,240
40	Strip footing	924	SF	\$12.00	\$10,848
41	Isolated footings Foundation walls	904	SF SF	\$9.00	\$16,560
42	Piers	1,840 406	SF SF	\$12.00	\$4,872
43			SF SF	\$2.50	\$20,160
44	Cure screed and protect slab on dock	8,064 4,376	SF SF	\$2.50 \$2.50	\$10,940
45	Cure screed and protect slab on deck Miscellaneous:	4,376	31	φ2.50	ψ10,0π0
46	Elevator pit	1	EA	\$5,000.00	\$5,000
47	Concrete to metal pan stairs	2	FLT	\$2,500.00	\$5,000
	Concrete to metal pair stairs	2	ГЦІ	Ψ2,000.00	ψ0,000



Sharon Town Hall

Option 3: New Construction

Sonotubes ## Sonotubes ## Sonotubes ## Allow for concrete pads and bases ## Allow for brick detail to exterior ## Al
Allow for concrete pads and bases 1 LS \$3,000.00 \$3,0 50 Perimeter drainage 440 LF \$15.00 \$6,6 51 Vapor barrier for slab on grade 8,064 SF \$0.50 \$2.50 \$20,1 52 Rigid insulation to slab on grade 8,064 SF \$2.50 \$20,1 53 General concrete requirements 1 AL \$12,000.00 \$12,0 54 (Note: earthwork included in the sitework allowance) 55 03 00 00 - Concrete Total 56 04-Masonry 67 O4-Masonry 68 Exterior brick to exterior 8,496 SF \$34.00 \$288,8 69 Allow for brick detail to exterior 8,496 SF \$1.00 \$8,4 60 O4 20 00 - Unit Masonry Total 58 \$297,3
Allow for concrete pads and bases 1 LS \$3,000.00 \$3,0 50 Perimeter drainage 440 LF \$15.00 \$6,6 51 Vapor barrier for slab on grade 8,064 SF \$0.50 \$20,1 52 Rigid insulation to slab on grade 8,064 SF \$2.50 \$20,1 53 General concrete requirements 1 AL \$12,000.00 \$12,0 54 (Note: earthwork included in the sitework allowance) 55 03 00 00 - Concrete Total 56 04-Masonry 67 04-Masonry 68 Exterior brick to exterior 8,496 SF \$34.00 \$288,8 69 Allow for brick detail to exterior 8,496 SF \$1.00 \$8,4 59 \$1.00 \$8,4 60 04 20 00 - Unit Masonry Total
50 Perimeter drainage 440 LF \$15.00 \$6,6 51 Vapor barrier for slab on grade 8,064 SF \$0.50 \$4,0 52 Rigid insulation to slab on grade 8,064 SF \$2.50 \$20,1 53 General concrete requirements 1 AL \$12,000.00 \$12,0 54 (Note: earthwork included in the sitework allowance) \$233,3 56 \$233,3 57 03-Concrete Total \$233,3 58 \$9 60 O4-Masonry 61 \$1 AL \$34.00 \$288,8 62 O4 20 00 - Unit Masonry 63 Exterior brick to exterior 8,496 SF \$34.00 \$288,8 64 Allow for brick detail to exterior 8,496 SF \$1.00 \$8,4 65 04 20 00 - Unit Masonry Total \$297,3
51 Vapor barrier for slab on grade 8,064 SF \$0.50 \$4,0 52 Rigid insulation to slab on grade 8,064 SF \$2.50 \$20,1 53 General concrete requirements 1 AL \$12,000.00 \$12,0 54 (Note: earthwork included in the sitework allowance) \$233,3 56 \$233,3 57 03-Concrete Total \$233,3 58 \$9 60 04-Masonry 61 62 04 20 00 - Unit Masonry 63 Exterior brick to exterior 8,496 SF \$34.00 \$288,8 64 Allow for brick detail to exterior 8,496 SF \$1.00 \$8,4 65 04 20 00 - Unit Masonry Total \$297,3
Rigid insulation to slab on grade Rigid insulation to slab on specific states and slab sta
General concrete requirements (Note: earthwork included in the sitework allowance) 1 AL \$12,000.00 \$12,0 (Note: earthwork included in the sitework allowance) 3 30 00 00 - Concrete Total 3 233,3 56 03-Concrete Total \$233,3 58 59 60 04-Masonry 61 62 04 20 00 - Unit Masonry 63 Exterior brick to exterior 8,496 SF \$34.00 \$288,8 64 Allow for brick detail to exterior 8,496 SF \$1.00 \$8,4 65 04 20 00 - Unit Masonry Total \$297,3
(Note: earthwork included in the sitework allowance) 03 00 00 - Concrete Total 57 03-Concrete Total 58 60 04-Masonry 61 62 04 20 00 - Unit Masonry 63 Exterior brick to exterior 64 Allow for brick detail to exterior 65 04 20 00 - Unit Masonry Total 58 59 60 50 60 60 61 62 63 64 65 65 66 67 68 68 68 68 69 69 69 60 60 60 60 60 60 60
\$233,3 56 03-Concrete Total \$233,3 58 59 60 04-Masonry 61 62 04 20 00 - Unit Masonry 63 Exterior brick to exterior 8,496 Allow for brick detail to exterior 8,496 \$F \$1.00 \$8,4 65 04 20 00 - Unit Masonry Total
56 57
58 59 60
58 59 60
60 04-Masonry 61 04 20 00 - Unit Masonry 62 04 20 00 - Unit Masonry 63 Exterior brick to exterior 8,496 SF \$34.00 \$288,8 64 Allow for brick detail to exterior 8,496 SF \$1.00 \$8,4 65 04 20 00 - Unit Masonry Total \$297,3
61 62 04 20 00 - Unit Masonry 63 Exterior brick to exterior 64 Allow for brick detail to exterior 65 04 20 00 - Unit Masonry Total 8,496 SF \$34.00 \$288,888 8,496 SF \$1.00 \$8,488 \$297,388
62 04 20 00 - Unit Masonry 63 Exterior brick to exterior 8,496 SF \$34.00 \$288,8 64 Allow for brick detail to exterior 8,496 SF \$1.00 \$8,4 65 04 20 00 - Unit Masonry Total \$297,3
63 Exterior brick to exterior 64 Allow for brick detail to exterior 65 04 20 00 - Unit Masonry Total 8,496 SF \$34.00 \$288,8 8,496 SF \$1.00 \$8,4 \$297,3
64 Allow for brick detail to exterior 8,496 SF \$1.00 \$8,4 65 04 20 00 - Unit Masonry Total \$297,3
65 04 20 00 - Unit Masonry Total \$297,3
66
67 04-Masonry Total \$297,3
68
69
70 <mark>05-Metals</mark> 71
72 05 12 00 Structural Steel 73 Framing 121 TNS \$3,400.00 \$411,2
74 Allow for brick detail to exterior
75 05 12 00 Structural Steel Total \$411,2
76
77 05 30 00 Decking
78 Roof decking 9,838 SF \$3.75 \$36,8
79 05 30 00 Decking Total \$36,8
80
81 05 50 00 - Metal Fabrications
82 Elevator pit and sills 1 SET \$2,800.00 \$2,8
83 Elevator ladder 1 SET \$1,200.00 \$1,2
84 Metal pan stairs 2 FLT \$15,500.00 \$31,0
85 Other misc metals 16,128 SF \$3.50 \$56,4
86 05 50 00 - Metal Fabrications Total \$91,4



Sharon Town Hall

Option 3: New Construction

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
87					
88	05-Metals Total				\$539,605
89	US-Metals Total				ψοσσ,σσσ
90					
91					
92	06-Woods & Plastics				
93					
94	06 10 00 - Rough Carpentry				
95	Plywood	9,838	SF	\$3.50	\$34,433
96 97	Allowance for rough carpentry and blocking internally	16,128	SF	\$3.00	\$48,384
98	06 10 00 - Rough Carpentry Total				\$82,817
99	06 20 00 Finish Corporate				
100	06 20 00 - Finish Carpentry Miscellaneous finish carpentry	16,128	SF	\$15.00	\$241,920
101	06 20 00 - Finish Carpentry Total	10,120			\$241,920
102	. ,				
103	06-Woods & Plastics Total				\$324,737
104					
105		_			
106	07-Thermal & Moisture				
107					
108 109	07 12 00 - Built-Up Bituminous Waterproofing	222	0.5	#0.50	Фо ооо
	Dampproofing to foundation walls Waterproofing to elevator pit	920 1	SF	\$3.50	\$3,220
	07 12 00 - Built-Up Bituminous Waterproofing Total	•	EA	\$2,500.00	\$2,500 \$5,720
112					40,120
113	07 20 00 - Thermal Protection				
114	Exterior rigid insulation	8,496	SF	\$2.35	\$19,966
115	07 20 00 - Thermal Protection Total				\$19,966
116					
117	07 27 00 - Air Barrier				
	Air / vapor barrier to walls	8,496	SF	\$6.50 <u> </u>	
119	07 27 00 - Air Barrier Total				\$55,224
121	07.40.00 Poofing and Ciding Panels				
	07 40 00 - Roofing and Siding Panels Cedar shingle roof	9,838	SF	¢16.50	¢162 227
	07 40 00 - Roofing and Siding Panels Total	3,030	JF	\$16.50 <u> </u>	\$162,327 \$162,327
124					. ,
125	07 62 00 - Sheet Metal Flashing and Trim				
	~				



Sharon Town Hall Option 3: New Construction

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
126	Metal flashings	1	AL	\$15,000.00	\$15,000
	07 62 00 - Sheet Metal Flashing and Trim Total				\$15,000
128					
129	07 72 00 - Roof Accessories				
130	Misc. roof accessories	1	LS	\$5,000.00	\$5,000
131	07 72 00 - Roof Accessories Total				\$5,000
132					
133	07 84 00 - Firestopping				
	Firestopping measures - based on floor area	16,128	GSF	\$0.50 <u> </u>	\$8,064
	07 84 00 - Firestopping Total				\$8,064
136					
137	07 92 00 - Joint Sealants				
	Caulking and sealing - based on floor area	16,128	GSF	\$1.50 <u> </u>	\$24,192
	07 92 00 - Joint Sealants Total				\$24,192
140					
141	07-Thermal & Moisture Total				\$295,493
142					
143					
	08-Doors & Windows				
145					
146	08 10 00 - Doors and Frames				
147	Door frames	60	EA	\$250.00	\$15,000
148	Ditto; pair	1	EA	\$300.00	\$300
149	Doors	60	EA	\$300.00	\$18,000
150	Ditto; pair	1	PR	\$600.00	\$600
151	Exterior egress doors; complete	1	EA	\$1,500.00	\$1,500
	08 10 00 - Doors and Frames Total				\$35,400
153					
154	08 31 00 - Access Doors and Panels				
	Allow for access doors to MEP installation	1	LS	\$2,500.00	\$2,500
156	08 31 00 - Access Doors and Panels Total				\$2,500
157					
158	08 40 00 - Entrances, Storefront and Curtainwall				
159	Interior vestibule doors	3	PR	\$7,000.00	\$21,000
160	Exterior vestibule doors	2	PR	\$7,000.00	\$14,000
161	Exterior curtainwall	1,104	SF	\$95.00 <u> </u>	\$104,880
162	08 40 00 - Entrances, Storefront and Curtainwa	ıı ı otal			\$139,880
163		D. I. () 474 () 01 (
164		Delete 474sf. Ch to brick (-\$28,440)			



Sharon Town Hall Option 3: New Construction

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
	Windows	989	SF	\$85.00	\$84,089
	08 50 00 - Windows Total				\$84,089
167					
168	08 70 00 - Door Hardware				
169	Door hardware	62	EA	\$650.00	\$40,300
170	Automatic door openers	2	EA	\$2,500.00	\$5,000
	08 70 00 - Door Hardware Total				\$45,300
172					
173	08 80 00 - Glazing				
	Interior glazing	1	LS	\$15,000.00	\$15,000
	08 80 00 - Glazing Total				\$15,000
176					
177	08 91 00 - Louvers				
178	Architectural louvers	100	SF	\$50.00	\$5,000
	08 91 00 - Louvers Total				\$5,000
180					
181	08-Doors & Windows Total				\$327,169
182					
183					
184	09-Finishes				
185					
186	09 21 16 - Gypsum Wallboard				
187	Light gage metal framing with Gypsum sheathing	8,496	SF	\$11.00	\$93,456
188	Drywall to interior of exterior	8,496	SF	\$3.25	\$27,612
189	Partitions	20,784	SF	\$8.50	\$176,664
190	Chase walls Assume 40% gwb,	1	LS	\$10,000.00	\$10,000
191	Elevator walls 60% act\$24,800)	1,008	SF	\$13.50	\$13,608
192	Backerboard	1,152	SF	\$3.00	\$3,456
	Ceiling; allowance (assume 65% GWB & 35% ACT)	16,524	SF	\$7.00_	
	09 21 16 - Gypsum Wallboard Total				\$440,381
195					
196	09 30 00 - Tile				
197	Ceramic tile floors	300	SF	\$18.00	\$5,400
198	Ceramic Wall tile at bathroom	1,152	SF	\$18.00	\$20,736
199	Ceramic tile Base	128	LF	\$13.00	\$1,664
200	Marble thresholds	4	EA	\$150.00	\$600
201	09 30 00 - Tile Total				\$28,400
202					
203	09 51 00 - ACT Ceilings				



Sharon Town Hall Option 3: New Construction

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
204					
204	ACT Included with GWB ceilings				
206	09 51 00 - ACT Ceilings Total				
207	00 CE 00 Flooring				
208	09 65 00 - Flooring	45 222	SF	¢42.00	¢402.0E0
209	Flooring Rubber treads and risers	15,322 220	LFR	\$12.00 \$15.50	\$183,859 \$2,410
210	Rubber floor landing	80	SF	\$6.50	\$3,410 \$520
	09 65 00 - Flooring Total	00	SF	φο.50	\$187,789
212	oo oo oo ii loomiig rota.				ψ101,100
213	09 90 00 - Painting				
214	Paint GWB walls	51,074	SF	\$0.75	\$38,306
215	Paint GWB ceilings	10,741	SF	\$1.00	\$10,741
216	Paint doors	60	EA	\$60.00	\$3,600
217	Paint frames	60	EA	\$40.00	\$2,400
218	Miscellaneous painting at existing space	16,128	SF	\$3.00	\$48,384
219	09 90 00 - Painting Total	. 0, . 20	O.	Ψο.σο	\$103,430
220	•				,
221	09-Finishes Total				\$760,001
222					
223					
224	10-Specialties				
225					
226	10 11 00 - Visual Display Surfaces				
227	Allow for visual display surfaces	1	AL	\$10,000.00	\$10,000
228	10 11 00 - Visual Display Surfaces Total				\$10,000
229					
230	10 14 00 - Signage				
231	Interior building signage	16,128	SF	\$1.00	\$16,128
232	10 14 00 - Signage Total				\$16,128
233					
234	10 28 00 - Toilet Accessories				
235	Sanitary napkin dispenser, recessed mounted	2	EA	\$350.00	\$700
236	Sanitary napkin disposal, recessed mounted	2	EA	\$75.00	\$150
237	Toilet tissue dispenser	4	EA	\$150.00	\$600
238	Standard mirror	4	EA	\$150.00	\$600
239	Soap dispenser	4	EA	\$35.00	\$140
240	Grab bars	8	EA	\$150.00	\$1,200
	Robe hook	4	EA	\$25.00	\$100
242	Utility shelf/ mop & broom holders	2	EA	\$150.00	\$300



Sharon Town Hall Option 3: New Construction

	PI PIERLIP	01141	1.000	LINUT DATE	16,128 GSF
	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
243	Install	30	EA	\$35.00	\$1,050
	10 28 00 - Toilet Accessories Total	00			\$4,840
245					V 1,0 10
246	10 44 13 - Fire Extinguisher Cabinets				
247	Allow recessed fire extinguishers and cabinets	4	EA	\$450.00	\$1,800
	10 44 13 - Fire Extinguisher Cabinets Total			_	\$1,800
249					
250	10-Specialties Total				\$32,768
251					
252	44 5	_			
253 254	11-Equipment				
255	11 F2 00 Audio Vigual Equipment				
	11 52 00 - Audio-Visual Equipment Projection screen		EA	\$5,000.00	NIC
	11 52 00 - Audio-Visual Equipment Total				
258	4.4				
259	11-Equipment Total				
260					
261					
262	12-Furnishings				
263					
264	12 20 00 - Window Treatment	0.000	05	Ф Б 00	#40.400
	Window treatment 12 20 00 - Window Treatment Total	2,093	SF	\$5.00 <u> </u>	\$10,466 \$10,466
267	12 20 00 - Window Treatment Total				\$10, 4 00
268	12 48 13 - Entrance Mats				
269	Entrance mat	476	SF	\$35.00	\$16,660
270	12 48 13 - Entrance Mats Total	•	O.	<u></u>	\$16,660
271					
272	12-Furnishings Total				\$27,126
273					
274		_			
275	14-Conveying System				
276					
277 278	14 20 00 - Elevators Elevator	1	EA	\$90,000.00	\$90,000
	14 20 00 - Elevators Total	'	ĽA	ψθυ,000.00	\$90,000
280					Ψ30,000
281	14-Conveying System Total				\$90,000



Sharon Town Hall Option 3: New Construction

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
	<u> </u>			
282				
283				
284 21,22,23-Mechanical				
285				
286 21 00 00 - Fire Suppression				
287 Sprinkler Coverage within new	16,128	SF	\$4.25	\$68,544
288 Seismic Restraints	1	LS	\$1,500.00	\$1,500
289 Permits & Fees	1	LS	\$1,000.00	\$1,000
290 Testing	1	LS	\$900.00	\$900
291 Drawings & Calculations	1	LS	\$750.00 <u> </u>	\$750
292 21 00 00 - Fire Suppression Total				\$72,694
293				
294 22 00 00 - Plumbing				
295 Water Heater	1	EA	\$5,000.00	\$5,000
²⁹⁶ Elevator Sump Pump	1	EA	\$2,500.00	\$2,500
²⁹⁷ Fixtures				
²⁹⁸ Water Closet	4	EA	\$3,800.00	\$15,200
²⁹⁹ Lavatory	4	EA	\$3,800.00	\$15,200
300 Coring & Cutting	1	LS	\$1,500.00	\$1,500
301 Test and balance	1	LS	\$1,000.00	\$1,000
302 Permits & Fees	1	LS	\$1,500.00	\$1,500
303 Shop drawings	1	LS	\$1,200.00	\$1,200
304 22 00 00 - Plumbing Total				\$43,100
305				
306 23 00 00 - HVAC				
307 Allow for HVAC	16,128	LS	\$42.00	\$677,376
308 23 00 00 - HVAC Total			_	\$677,376
309				
21,22,23-Mechanical Total				\$793,170
311				
312				
313 26-Electrical				
314				
315 26 00 00 - Electrical				
316 Electrical	16,128	SF	\$40.00	\$645,120
317 26 00 00 - Electrical Total	-,,		-	\$645,120
318				
³¹⁹ 26-Electrical Total				\$645,120
320				



Sharon Town Hall

Option 3: New Construction

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
321					
322	31-Earthwork				
323	31-Laithwork				
	31 00 00 Earthwork				
	Excavation	3,733	CY	\$15.00	\$55,995
326	Trench excavation	124	CY	\$22.00	\$2,723
327	Elevator pit excavation	1	EA	\$3,500.00	\$3,500
328	Backfill	623	CY	\$9.00	\$5,607
329	Disposal	3,234	CY	\$15.00	\$48,506
330	31 00 00 Earthwork Total			_	\$116,331
331					
332	31-Earthwork Total				\$116,331
333					
334					
	32-Exterior Improvements				
336					
337	32 00 00 Exterior Improvements				
338	Allowance for exterior improvements			See	Site Estimate
339	32 00 00 Exterior Improvements Total				
340					
341	32-Exterior Improvements Total				
342					
343					
344					



Sharon Town Hall

Option 3: New Construction

Sharon, MA

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
02 30 00 Building Demolition				\$70,008
02 41 00 Demolition				\$57,732
31 10 00 Site Clearing				\$45,000
31 20 00 Earth Moving				\$73,051
31 25 00 Erosion and Sedimentation Controls				\$4,875
32 00 00 Paving				\$178,811
32 30 00 Site Improvements				\$52,900
32 31 13 Fences and Gates				\$2,350
32 90 00 Plants				\$37,968
33 10 00 Water Distribution				\$45,000
33 30 00 Sanitary Sewerage				\$55,000
33 40 00 Storm Drainage				\$75,000
33 50 00 Gas Service				\$4,000
33 70 00 Electrical Utilities				\$150,000
			<u>-</u>	
	Suk	total: carried to	Main Summary	\$851,695



Sharon Town Hall

Option 3: New Construction Sharon, MA

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
	02-BUILDING SITEWORK				
32					
33	02 30 00 Building Demolition				
34	Building demolition and removal	200,024	CFT	\$0.35	\$70,008
35	02 30 00 Building DemolitionTotal				\$70,008
36					
37	02 41 00 Demolition			_	
38	Saw cut existing pavement allowance	198	LF	\$8.00	\$1,581
39	R & D existing sidewalk allowance	2,048	SF	\$1.50	\$3,072
40	Remove existing pavement	31,754	SF	\$1.25	\$39,693
41	Remove sign	1	EA	\$1,500.00	\$1,500
42	Remove walls	47	LF	\$25.00	\$1,175
43	R & D curb	816	LF	\$7.00	\$5,712
44	Misc. demolition other than above	1	LS	\$5,000.00	\$5,000
45	02 41 00 DemolitionTotal				\$57,732
46					
47	AL EADTHWODIA				
48	31-EARTHWORK				
49	24 40 00 Cita Olassina				
50	31 10 00 Site Clearing			# 4.000.00	0.4.000
51	Site clearing allowance	1	LS	\$4,900.00	\$4,900
52	Construction fence, install & maintain allowance	975	LF _^	\$12.00	\$11,700
53	Double construction gate allowance	2	EA	\$2,500.00	\$5,000
54	Temporary construction entrance	2	AL	\$7,000.00	\$14,000
55	R & D existing trees	9	EA	\$350.00	\$3,150
56	Trees protection	7	EA	\$250.00	\$1,750 \$1,500
57	Temp signs	1	LS	\$1,500.00	\$1,500 \$2,000
58	Allow for wash down/re-fueling	2,000	SF	\$1.50	\$3,000
59	31 10 00 Site ClearingTotal				\$45,000
60	24 20 00 Forth Moving				
61	31 20 00 Earth Moving Building pad excavation and fill				Coo Building
62		4	LS	\$2,700.00	See Building \$2,700
63	Remove & stockpile topsoil Cuts and fills - site grade	1 544	CY	\$2,700.00	\$2,700 \$4,355
64	· ·		CY	\$9.00	\$4,333 \$13,240
65	Cuts and fills of asphalt pavement Cuts and fills of concrete pavement	1,471 178	CY	\$9.00 \$9.00	\$13,240 \$1,604
66	•	178 28,778	SF	\$9.00 \$0.50	
67	Fine grade Gravel base to parking let & sidewalk	28,778 1,011	CY CY	\$0.50 \$25.00	\$14,389 \$25,286
68	Gravel base to parking lot & sidewalk Structural fill existing building footprint; allow	•	CY	\$25.00 \$22.00	\$25,286 \$11,477
69		522	O1	φ∠∠.UU <u></u>	\$11,477
70	31 20 00 Earth Moving Total				\$73,051
71	24.25.00 Erosion and Codimentation Controls				
72	31 25 00 Erosion and Sedimentation Controls	400		#40.00	04.07 5
73	Hay bales and silt fence allowance	488	LF	\$10.00	\$4,875



Sharon Town Hall

Option 3: New Construction

Sharon, MA

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
74	31 25 00 Erosion and Sedimentation Controls Total				\$4,875
75					
76		_			
77	32-EXTERIOR IMPROVEMENTS				
78					
79	32 00 00 Paving				
80	32 00 00 Asphalt Paving				
81	Asphalt concrete paving at parking lot	26,480	SF	\$2.75	\$72,820
82	Patching existing pavement at street; allow	300	SF	\$3.00	\$900
83	32 13 13 Concrete Paving				
84	Concrete sidewalk	3,742	SF	\$6.00	\$22,452
85	Curb cut	1	EA	\$350.00	\$350
86	Concrete ramp with Detectable waring strips	220	SF	\$12.00	\$2,640
87	32 16 00 Curbs and Gutters	_			
88	Vertical granite curb	1,521	LF	\$34.00	\$51,714
89	32 14 00 Unit Pavers		0=	A. = 00	400.070
90	Unit pavers -granite curb edge	1,378	SF	\$15.00	\$20,670
91	32 17 23 Pavement Markings	700	05	Φο οο	04 400
92	Crosswalk; allow	700	SF	\$2.00	\$1,400
93	Parking stall painting	59	EA	\$35.00	\$2,065
94	Parking stall painting; HC	4	EA	\$75.00	\$300
95	Misc. marking	1	LS	\$3,500.00	\$3,500
96	32 00 00 Paving Total				\$178,811
97	22 20 00 Site Improvements				
98	32 30 00 Site Improvements	1	EA	\$7,500.00	\$7,500
99	Flagpole and foundation	1	EA	\$15,000.00	\$15,000
100	Decorative site sign Transformer pad	'	SF	φ15,000.00	\$15,000 Div 26
101	Generator pad		SF	\$7.50	Div 26
102	Site pipe bollard; allow	1	AL	\$4,000.00	\$4,000
	Alless for hiller reals	1	LS	\$2,500.00	\$2,500
104 105	Allow for benches	1	LS	\$3,600.00	\$3,600
105	Allow for Trash / Recycle receptacles	3	EA	\$600.00	\$1,800
107	Traffic signs	1	LS	\$3,500.00	\$3,500
108	Misc. site improvement other than above	1	LS	\$15,000.00	\$15,000
109	32 30 00 Site Improvements Total	-			\$52,900
110	•				,, •
111	32 31 13 Fences and Gates				
112	Chain link fence at dumpster; allow	45	LF	\$30.00	\$1,350
113	Double chain link fence gate at dumpster; allow	1	EA	\$1,000.00	\$1,000
114	32 31 13 Fences and Gates Total			· · · —	\$2,350
115					
116	32 90 00 Plants				
	32 92 10 Soil Preparation for Lawn Establishment				
	•				

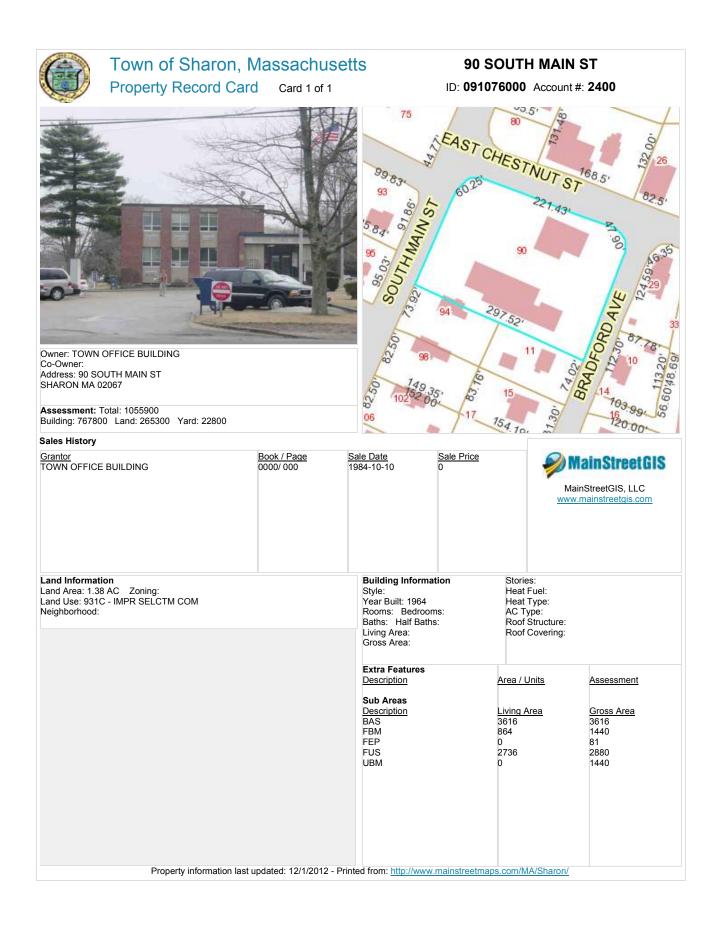


Sharon Town Hall

Option 3: New Construction

Sharon, MA

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
118	Respread stockpiled topsoil	1	LS	\$2,400.00	\$2,400
119	Imported topsoil for new lawn	1	LS	\$1,325.00	\$1,325
120	Imported topsoil for plant bed	148	CY	\$25.00	\$3,689
121	Mulch	16	CY	\$45.00	\$720
122	32 92 20 Turf and Grasses				
123	Lawn	21,428	SF	\$0.50	\$10,714
124	32 93 00 Plants				
125	New trees	16	EA	\$700.00	\$11,200
126	Small shrubs	66	EA	\$120.00	\$7,920
127	32 90 00 Plants Total				\$37,968
128					
129	33-UTILITIES				
130					
131	33 10 00 Water Distribution				
132	Water distribution; allow	1	AL	\$45,000.00	\$45,000
133	33 10 00 Water Distribution Total				\$45,000
134					
135	33 30 00 Sanitary Sewerage				
136	Sanitary sewerage; allow	1	AL	\$55,000.00	\$55,000
137	33 30 00 Sanitary Sewerage Total				\$55,000
138					
139	33 40 00 Storm Drainage				
140	Storm drainage; allow	1	AL	\$75,000.00	\$75,000
141	33 40 00 Storm Drainage Total				\$75,000
142					
143	33 50 00 Gas Service				
144	Trenching and backfill for new service line; allow	100	LF	\$40.00	\$4,000
145	33 50 00 Gas Service Total				\$4,000
146					
	33 70 00 Electrical Utilities				
148	Site electrical	1	AL	\$150,000.00	\$150,000
149	33 70 00 Electrical Utilities Total				\$150,000
150					
151					
152					
153					
154					
155					
156					





MEETING NOTES

SHARON TOWN HALL STUDY

Sharon, Massachusetts KBA # 15047.00

Prepared by: M.J.McKeon

Present:

Fred Turkington: Town Admimistrator

Peter O'Cain: Town Engineer Eric Hooper: DPW Director

Matthew Baldassari: Facilities Supervisor Lance Delpriore: Asst. Town Engineer

Michael McKeon: KBA

The following items were discussed:

- 1. The Town accepts KBA's add service fee for programming (\$2,750)and wishes to have the following staff interviewed as part of this process:
 - a. Fred Turkington: Town Administrator (Board of Selectmen's office), (781) 784-1500 ext.1208
 - b. Marlene Chused: Town Clerk, (781) 784-1500 ext.1201
 - c. Beverly Anderson: Director of Health, (781) 784-1500 ext. 1206
 - d. Sheila Miller: Town Nurse, (781) 784-1500 ext. 1206
 - e. Mark Mazur, Town Assessor, (781) 784-1507 ext. 1207
 - f. Finance Director: Cindy Doherty, (781) 784-1500 ext. 1209
 - g. Elisha McOsker: Treasureer/Collector (781) 784-1500 ext.1200
 - h. Don Hillegess: I.T. Director, (781 784-1500 ext.1203
- 2. The Administrator wants KBA to concentrate on filing and storage needs as well as adjacencies and work flow. He mentioned that the Town Clerk is currently across the corridor from their vault and ideally they should be contiguous. He also mentioned that some preferred department adjacencies are not possible within the current layout.
- 3. The Administrator asked KBA to consult with Mr. Hillegess first regarding their electronic storage system.
- 4. The Administrator will address the staff next Tuesday (9/1) and advise them to expect calls or emails from KBA (Kristen Smith) to schedule the interviews next week.
- 5. Thursdays tend to be slow in the late afternoon as they work until 7:00pm but are off Friday afternoons.
- 6. McKeon met with Mr. Hillegess after the meeting and reviewed the Headend Room layout. He informed KBA that, assuming proper cooling equipment, the current space is adequate for the network equipment.
- 7. Mr. Hillegess noted that there is one document scanner per floor for the DocStar electronic filing system.
- 8. Joe Milani, KBA's accessibility reviewer, is to contact Mr. Baldassari so he can accompany him on his walkthrough this Friday (8/28).
- 9. Mr. Baldassari's contact information is as follows
 - a. Email: mbadassari@townofsharon.org
 - b. Phone (781) 784-1525 ext. 2325
 - c. Cell; 781-201-0636

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Date: August 25, 2015

Page: 1 of 1

90 SOUTH MAIN ST

Location 90 SOUTH MAIN ST **Assessment** \$1,311,200

Mblu 91/76/// **PID** 3453

Acct# 2400 Building Count 2

Owner TOWN OFFICE BUILDING

Current Value

Assessment				
Valuation Year Improvements		Land	Total	
2015	\$1,090,600	\$220,600	\$1,311,200	

Owner of Record

Owner TOWN OFFICE BUILDING **Sale Price** \$0

Co-Owner Certificate

 Address
 90 SOUTH MAIN ST
 Book & Page
 0000/ 000

 SHARON, MA 02067
 Sale Date
 10/10/1984

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Sale Date	
TOWN OFFICE BUILDING	\$0		0000/ 000	10/10/1984	

Building Information

Building 1: Section 1

 Year Built:
 1964

 Living Area:
 7216

 Replacement Cost:
 \$799,633

Building Percent 65

Good:

Replacement Cost

Less Depreciation: \$519,800

Building Attributes			
Field	Description		
STYLE	Municipal Off.		
MODEL Commercial			
Stories:	2		
Occupancy	1		
Exterior Wall 1	Brick/Masonry		

Building Photo

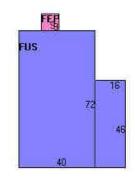


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Building Lavout

Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Rolled Compos
Interior Wall 1	Plastered
Interior Wall 2	Plywood Panel
Interior Floor 1	Pine/Soft Wood
Interior Floor 2	Tile A V R
Heating Fuel	Oil
Heating Type	Hot Water
АС Туре	None
Bldg Use	MUNICPAL MDL-94
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	903C
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	12
% Comn Wall	0





	Building Sub-Areas	<u>Legend</u>		
Code	Description	Gross Area	Living Area	
BAS	First Floor	3616	3616	
FUS	Upper Story, Finished	2880	2736	
FBM	Basement, Finished	1440	864	
FEP	Porch, Enclosed, Finished	81	0	
UBM	Basement, Unfinished	1440	0	
		9457	7216	

Building 2 : Section 1

Year Built: 1964
Living Area: 5780
Replacement Cost: \$741,320
Building Percent 73

Good:

Replacement Cost

Less Depreciation: \$541,200

Building Attributes : Bldg 2 of 2			
Field	Description		
STYLE	Fire Station		
MODEL	Ind/Com		
Stories:	1		
Occupancy	1		
Exterior Wall 1	Brick/Masonry		
Exterior Wall 2			
Roof Structure	Flat		
Roof Cover	Rolled Compos		
Interior Wall 1	Drywall		
Interior Wall 2	Plastered		
	I		

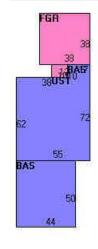
Building Photo



(http://images.vgsi.com/photos/SharonMAPhotos//\00\00\39/3

Interior Floor 1	Tile A V R
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	None
Bldg Use	MUNICPAL MDL-96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	903I
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	CEIL & WALLS
Rooms/Prtns	AVERAGE
Wall Height	14
% Comn Wall	0

Building Layout



	Building Sub-Areas	<u>Legend</u>		
Code	Description	Gross Area	Living Area	
BAS	First Floor	5780	5780	
FGR	Garage, Finished	1444	0	
UST	Utility, Storage, Unfinished	120	0	
		7344	5780	

Extra Features

Extra Features <u>Lege</u>				
Code	Description	Size	Value	Bldg #
A/C	AIR CONDITION	3700 UNITS	\$6,800	2

Land

Land Use		Land Line Value	Land Line Valuation		
Use Code	903C	Size (Acres)	1.38		
Description	MUNICPAL MDL-94	Frontage	0		
Zone		Depth	0		
Neighborhood	CB2	Assessed Value	\$220,600		
Alt Land Appr	No				
Category					

Outbuildings

Outbuildings					Legend	
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV1	PAVING-ASPHALT			20000 S.F.	\$20,000	2
PMP1	PUMP-SING HSE			1 UNITS	\$1,500	2
TNK1	TANK-UNDERGRND			2000 GALS	\$1,300	2