



Project Team

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I. Executive Summary



Introduction

In the early spring of 2020, LLB Architects and their team of architectural, code, structural, mechanical, electrical, plumbing consultants along with environmental engineers conducted an Existing Conditions Assessment and Peer Review of the subject property, South Franklin Congregational Meeting House, located at 762 Washington Street.

This study was developed to inform interested parties of the viability of using this building as a future home for the Seven Hills Charter Public School. This report is accompanied with numerical and photographic information to support the findings, as well as recommendations where necessary.

The following report is presented in five parts, beginning with a high level summary and progressing into further detail. The first part of this report introduces the project, summarizes the findings, and describes the methodology used and assumptions made to aid future analysis and decision making. The second part of this report assesses the existing building from a building code, zoning, and accessibility standpoint. In the third part, this team has provided detailed descriptions of each major component of the existing building, including the roof, siding and windows. Here, this report provides a more focused understanding of the current conditions of the building. Included in each of these component assessments is our team's professional opinion as to the predicted life expectancy based on the current conditions observed. Following these, in a fourth part, are the supporting reports from the team's consulting engineers' assessments of the building and its associated parcels. In addition to the structural, mechanical, electrical and plumbing reports, a copy of the hazardous materials report created by FLI Engineering is included. Finally, copies of the building's 2015 Civitecs Comprehensive Investigation and Analysis documentation has been provided for reference as an exhibit at the end of this document.





Summary of Findings

Architectural Assessment

LLB Architects conducted a visual assessment of the existing building and its systems. The overall architectural assessment is described in detail in the Existing Conditions Survey (part III) of this report.

The roofing system is reaching the end of its life expectancy. Several areas of the roofing were observed to be covered with fallen clustered pine needles, contributing to shingle damage and potential for leaks.

Recommendation: Replace the roof during the initial building renovations.

Overall, the windows appear to be oringial and generally appear to be in good condition based on the age. Sealants and glazing putty in certain units, however, appear to be falling or have failed and caused visible water damage. A few window lights are cracked and broken and should be repaired immedaitly so that they do not fall out causing damage to obejcts or persons below.

Recommendation: The glazing putty and sealants should be replaced during the initial building renovations to prevent further damage, and

complete repair and/or replacement should be done within 15-20 years.

The exterior enclosure of the building is painted wood clapboard and trim and granite. Repainting work on the exterior was completed during a previous renovation. Overall there are areas that are showing signs of deterioration and should be addressed to prevent further damage.

Recommendation: Further evaluation for a repainting project should be considered and roughly 5% of the exterior facade will require repair during the initial building renovations.



Structural Assessment

Structural conditions at the 762 Washington Street building were observed by Roome & Guarracino at the site (where accessible and exposed) on March 11, 2020. For the full report, refer to the Supporting Reports (part IV) of this report.

Granite block foundations appear to be performing adequately. There are no signs of significant total or differential settlements.

There are four main pillars, one of which showing signs of settlement due to moisture.

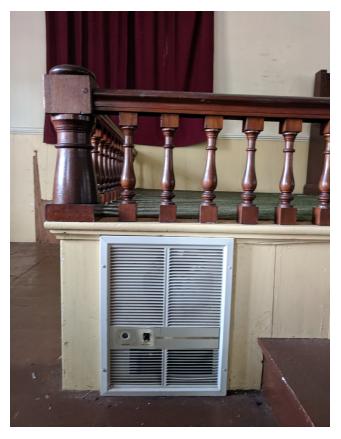
Generally speaking, floor and roof construction appear to be performing satisfactorily. There are no apparent signs of structural distress that would indicate significantly overstressed, deteriorated, or failed structural members.

The crawl space contians timber posts that appear to be subject to powder post beetle damage as well as splitting and crushing at their base.

The original, 1856 building was designed and constructed before the development of the Massachusetts State Building Code.

Recommendation: Known damaged wood girders and posts should be addressed regardless of a future, major renovation/reuse. Additional loading calculations will need to performed to determine any required structural improvements needed to satisfy the renovated scope and use.







Mechanical Assessment

HVAC Heating System:

The building heating system consists of existing electric cabinet unit heaters installed throughout the spaces which are approaching their life expectancy.

Recommendation: Provide an air handling unit (AHU) with gas heating and electric cooling located in the mechanical mezzanine. This AHU will be ducted to both the main open space as well as the entry foyer and will have economizing capability. The outside air ductwork to be routed to existing louver within the bell tower to maintain the historical appearance of the building.

Use of localized electric heating within the foyer and restroom(s) will be installed to offset air infiltration and/or localized heating.

These systems will replace the existing electric cabinet unit heaters installed throughout the spaces.

Toilet exhaust fan to be provided for the 1st floor restroom(s) and be ducted up to an existing louver within the bell tower.

The temperature control system to provide demand ventilation based on carbon monoxide levels to minimize energy use as well as networked into the Town's building management system for remote control.

Air handling unit (1 @ 4,000 CFM, 1,000 CFM Outdoor Air, 12.5 tons with associated outdoor condensing unit, economizer and gas fired duct furnace). This size assumes the current assembly occupancy and seating density will be maintained.

Ductwork supply, return, and exhaust distribution, diffusers and grilles for all areas.

Miscellaneous electric cabinet unit heaters and baseboard for the foyer and restroom(s).

Electrical Assessment

Normal Distribution System:

The building is serviced by a 120/240V single phase, 3 Wire service distributed through an Arrow Hart/ Murray 200 amp panelboard with 40 pole spaces. It is anticipated that this service size is insufficient for the recommended requirements of the building.

Recommendation: Install a new 208 V, 3 phase, 4-Wire, 200 amp service is recommended. Existing branch circuity to be renovated as needed to suit the updated electrical plans.

Site lighting consists of exterior egress lighting on daylight sensors and time clock controlled. These fixtures do not appear to meet the required 0.3 to 0.4 ft/candles standard and are recommended to be replaced. The interior lighting fixtures do not meet current codes and are recommended to be replaced along with an updating of switching and occupancy lighting control. There are emergency battery back-up lighting units serving the large open space and entry foyer which appear to be beyond their useful life expectancy - we recommend that these units be replaced with new. The existing exit signage does not meet current code and we recommend these units be replaced with new.

Recommendation: Install new emergency battery back-up lighting units along with exit signage and exterior lighting. New interior lighting can be retrofitted with higher output energy efficient bulbs or replaced with period specific replicas that are LED.

The fire alarm system serving the building consists of localized smoke detectors connected to a security panel with an automatic dialer to a security company. Current code does not require a fire alarm system in A-3 Assemblies occupancies with an occupant load less than 300 persons. It is assumed the existing security panel can accommodate the proposed upgrades.

Recommendation: Good design practice is to retain the existing smoke detection and add CO monitoring (based upon the proposed upgrade to gas heating) and the addition of horn/strobe notification appliances throughout.

This building is not equipped with a lightning protection system.











Plumbing Assessment

The current building has a ½" cold water service and a 4" waste that is reported to discharge to a septic system but it was noted that public sewer is evident in the street. There are two restrooms that are not code compliant as they lack hot water, accessible space, and ventilation.

Based on the proposed occupancy of Assembly (A-3) the plumbing code requires both a Men's and Women's restroom. We recommend that discussions be started with the local plumbing and building inspectional services to determine whether a variance request for an accessible unisex restroom is suitable given this study's goal of maintaining the current building size and historic character. A variance request will likely require multiple approvals from local jurisdictions, accessibility, and state plumbing board agencies.

Recommendation: We recommend that a new sanitary connection to the public system on Washington Street in front of the building be made. A separate site/civil consultant evaluation of the condition of the septic system be completed to

determine whether it is viable for reuse however for purposes of this study it is assumed that the existing septic system is beyond its useful life expectancy.

There is no gas service to the building but again it was noted that gas service appears evident within the neighborhood.

Recommendation: A new gas service is recommended for efficient heating connect to the existing utility infrastructure underneath the adjacent streets.

Plumbing systems, fixtures and equipment generally appear to be in good condition.

Fire Protection Assessment

The building does not have a fully automated sprinklered building. Per Massachusetts General Law c. 148 s. 26G, and the Massachusetts State Building Code, 780 CMR 9th edition, the building is not required to be sprinkler protected due to the size (<5,000 SF) and occupancy (Assembly A-3 with less than 300 occupants).

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Methodology

This assessment includes documentation of building and site components at 762 Washington Street in Franklin, Massachusetts. The resulting analysis is a distillation of broad-range and detailed observations made by a team of consultants from architectural, ,code, structural, mechanical, electrical, plumbing, fire protection disciplines. The primary objective of the assessment was to identify and observe systems, assemblies, and/or components of the facility and adjacent parking lot and to provide an analysis of the existing conditions as well as additional short-term recommendations for deficient items that may impact or influence the purchase or negotiations of this property. All observations and recommendations made by the team were the result of existing document review, interviews, and field surveys.

The majority of information was collected via the investigation (walkthrough) process in which each team member visually observed the facility pertinent to their specific trade and expertise. Deficiencies that were visible and readily accessible were collected, noted, and organized by LLB Architects in the form of this consolidated report. Significant deficiencies regarding accessibility of public areas are identified (*refer to the Existing Code Analysis, Part II of this report*). Building components were photographed at interior and exterior locations, highlighting building envelope, roofing, structural systems (where readily accessible), representative interiors, and any unique or unusual spaces.

LLB also deployed a drone with a camera on this project which permitted us to more closely observe and evaluate conditions of the existing façade and roof area that would have otherwise been difficult and costly to see without the use of a lift. The drone was also able to capture clear overhead images of the site.

In an effort to collect and synthesize assessment information efficiently, LLB Architects has developed a process to execute and process the work. All collected information is organized by discipline, and then by building component (i.e. roofing, siding, windows, etc.). This includes summarized descriptions supported by supplemental reports (refer to the Existing Conditions Survey, Part III, and Supporting Reports, Part IV, of this report).



Observation Scope

Site and Civil: A general assessment of the existing site conditions for the project site was not conducted as part of this assessment.

Structural Frame and Building Envelope: Visual identification of primary type of structure (wood frame, etc.), substructure including foundation walls, enclosure, superstructure including floor and roof framing (where readily accessible), building envelope including facades, glazing systems, exterior sealants, porches and other architectural features of importance or noted as deficient. Observations of the building's exterior are generally viewed from the ground and not by special conveying, unless alternative vantage points from balconies or adjacent buildings were available. We did deploy our drone on this project and were able to grid out each facade and roof area and systematically photograph each area. Analysis from a licensed structural engineer was conducted and those findings are included in this report.

Roofing: Identification of the material of the exposed material. Observations were made to note any deficiencies in drainage, damage to the roofing



system, and signs of leaks occurring on the interior ceilings/attic. Roofing was only accessed via drone imaging.

Interior Elements: Visual inspection of typical occupied spaces including lobbies, corridors, assembly spaces, restrooms, and special or unusual areas. Observations and deficiencies are noted for typical floor, wall, and ceiling finishes. Analyses of furnishings, fixtures, equipment, space utilization, space suitability, and user comfort issues were not conducted.

Plumbing: Identification of the sanitary, storm, and supply piping material, fixtures, domestic hot water, and other special fixtures. Deficiencies are noted for any distribution and fixtures which are damaged or beyond apparent useful life.

Heating, Venting, and Cooling: Generation and distribution system, observed for components and assemblies past useful life or damaged. Any equipment that is shutdown or not operational is observed as an opinion of its condition or deficiency.

Electrical: Identification and observation of the

service provided, size, visual of the distribution system including panels, transformers, meters, emergency generation, and exit signs, as exist.

Fire Protection: It should be noted that there is no sprinklers, standpipes or other suppression system currently in the building.

Life Safety: Visual identification related to building egress and their relationship to apparent conformance with original design intent. Application of fire protection systems including fire alarms, panels, smoke detectors, and other equipment.

Historic: Review of MACRIS material.

Exclusions

The following items have been excluded from the scope of this study:

Utility infrastructure including but not limited to steam, chilled water, tunnel systems, filtration, transformers, telecommunications and subsurface storm/sewer, fiber optics.

- Structural analysis (loads, calculations, etc.)
- Roof testing

Additional Study and Monitoring Costs

Some observations suggested remedies that require further research, testing, exploratory work, design, engineering, or a combination thereof, all of which are outside the scope of this assessment. In these cases, the observation was noted as an item to study or monitor.

Opinions of remedies and costs should only be construed as preliminary, order-of-magnitude budgets. Actual costs will most likely vary from the consultant's opinions on matters such as type and design of suggested remedy, quality of materials and installation, manufacturer and type of equipment or system selected, field conditions, phasing of the work, project delivery method, and market conditions.

Field survey processes

Walk-through surveys were conducted for the collection of facilities and features at 762 Washington Street in Franklin, Massachusetts.

The purpose of each field survey was to visually observe the facility to gather life cycle and short-term deficiency information that were visible and readily accessible through non-destructive testing.

The facility was photographed from the interior, exterior, and above the roof highlighting components, representative conditions, and any unique or unusual areas of interest.

Document review and interview processes

The purpose of including document review and interviews was to supplement the field survey and to assist the team's understanding of the facility and any pre-existing deficiencies or ongoing maintenance efforts.

A variety of existing documents, such as plans and reports, were obtained in the discovery stage of the project. Information of primary interest to the assessment included records indicating the age of building systems and components, studies, historical data, as-built conditions, and quantitative data.



Interviews with property managers were conducted before and during the field survey to aid in information collection, clarification on an observation, or to obtain access to areas not readily available to general building occupants.



II . Existing Code Analysis



Building Code Summary

Existing Building

The existing structure at 762 Washington Street is currently determined to be a type "A3" Assembly use inclusive of storage use as incidental use over 100 square feet. The construction consists of original wood structure with wood cladding. For further description of the existing building structure, please refer to the Preliminary Report completed by Roome & Guarricino (refer to the Supporting Reports, Part IV, of this report) This structural system classifies as Type VB, requiring the fire resistance ratings highlighted in the chart below:

TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)

BUILDING ELEMENT		TYPE I		TYPE II		E III	TYPE IV	TYPE V	
		В	Α	В	Α	В	НТ	Α	В
Primary structural frame ^f (see Section 202)	3ª	2ª	1	0	1	0	HT	1	0
Bearing walls Exterior ^{e, f} Interior	3 3ª	2 2ª	1 1	0	2 1	2 0	2 1/HT	1 1	0 0
Nonbearing walls and partitions Exterior		See Table 602							
Nonbearing walls and partitions Interior ^d	0	0	0	0	0	0	See Section 602.4.6	0	0
Floor construction and associated secondary members (see Section 202)	2	2	1	0	1	0	НТ	1	0
Roof construction and associated secondary members (see Section 202)	1 ¹ / ₂ ^b	1 ^{b,c}	1 ^{b,c}	0°	1 ^{b,c}	0	НТ	1 ^{b,c}	0

For SI: 1 foot = 304.8 mm.

- c. In all occupancies, heavy timber shall be allowed where a 1-hour or less fire-resistance rating is required.
- d. Not less than the fire-resistance rating required by other sections of this code.
- e. Not less than the fire-resistance rating based on fire separation distance (see Table 602).
- f. Not less than the fire-resistance rating as referenced in Section 704.10.

Through on site observation and review of the construction documentation from the most recent 2015 report, CodeRed has performed a detialed code comparision to identify requirement changes as they relate to today's code standards (refer to the Supporting Reports, Part IV, of this report)

a. Roof supports: Fire-resistance ratings of primary structural frame and bearing walls are permitted to be reduced by 1 hour where supporting a roof only.

b. Except in Group F-1, H, M and S-1 occupancies, fire protection of structural members shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members.



Zoning

Existing Zoning Overview

762 Washington Street is within the Rural Residential I district. There are some use restrictions in this zone, but its current use should allow this building to be renovated for the same uses.

There is no real identifiable adjacent parking lot on this site. There is a gravel access road on the east and north.

185 Attachment 5 Town of Franklin USE REGULATIONS SCHEDULE PART IV

[Amended 3-25-1987 by Bylaw Amendment 87-91; 1-11-1999 by Bylaw Amendment 98-397-R; 7-11-2001 by Bylaw Amendment 01-468; 10-2-2002 by Bylaw Amendment 02-507; 6-11-2003 by Bylaw Amendment 03-511; 3-1-2006 by Bylaw Amendment 05-575; 7-13-2011 by Bylaw Amendment 11-653; 6-5-2013 by Bylaw Amendment 13-711; 10-16-2013 by Bylaw Amendment 13-723; 11-16-2016 by Bylaw Amendment 16-770; 2-15-2017 by Bylaw Amendment 17-782; 3-13-2019 by Bylaw Amendment 19-830]

 $\begin{array}{lll} Symbols in the Use Regulations Schedule shall mean the following: & Y & = A permitted use. & \\ N & = A nexcluded or prohibited use. & BA & = A use authorized under special permit from the Board of Appeals. & \\ \end{array}$

PB = A use authorized under special permit from the Planning Board.
P/SP= Permitted as of right. A special permit from the Board of Appeals is required if the proposed project results in an increase in estimated water consumption of more than 15,000 gallons per day.

		DISTRICT												
	RRI													
	RRII													
	RVI													
Principal Uses (cont'd)		SFRIII	SFRIV	GRV	NC	RB	CI	CII	DC	В	I	LI	О	MBI
4. Institutional														
4.1 Cemetery	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N
4.2 Hospital	N	N	N	N	N	N	N	PB	N	PB	PB	N	N	N
Medical marijuana treatment facility	N	N	N	N	N	N	N	N	N	N	PB ³	N	N	N
 Medical marijuana testing facility 	N	N	N	N	N	N	N	N	N	N	PB ³	N	N	N
4.3 Charitable institution	N	N	N	PB	PB	N	Y	Y	PB	N	N	N	N	Y
4.4 Correctional facility	N	N	N	N	N	N	N	N	N	N	BA	N	N	N
4.5 Library, museum, art gallery	N	Y	Y	Y	N	N	Y	Y	Y	Y	N	N	N	Y
4.6 Lodge, social nonprofit ¹	N	N	N	N	N	N	Y	Y	Y	Y	N	N	N	Y
4.7 Public use	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
4.8 Religious or educational use:														
a. Exempt from zoning prohibition ²	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
b. Dormitories	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N	N

Town of Franklin, MA Zoning Ordinance as amended through January 30, 2019



Parcel Details



GeoTMS, an Accela Company. © 2020 Database Updated On 6/4/2020 1:17:58 AM

City of Worcester, MA Zoning District map as amended May 3, 2016. 13 Sudbury Street is within the downtown BG-6.0 zone.



GeoTMS, an Accela Company. © 2020 Database Updated On 6/4/2020 1:17:58 AM

City of Worcester, MA Zoning Overlay District map as amended February 3, 2015. 13 Sudbury Street is within the downtown CCOD-D: downtown parking subarea.

CAI Property CardTown of Franklin, Massachusetts



	The same with
GENERAL PROPERTY INFORMATION	BUILDING EXTERIOR
LOCATION: 762 WASHINGTON ST	BUILDING STYLE: GOV'T BLDG
ACRES: 0.6554	YEAR BUILT: 1856
PARCEL ID: 322-050-000-000	FRAME: WOOD
LAND USE CODE: 931 - IMP - COUNCL	EXTERIOR WALL COVER: CLAPBOARD
CONDO COMPLEX:	ROOF STYLE: GABLE
OWNER: FRANKLIN TOWN OF	ROOF COVER: ASPHALT SHGL
CO - OWNER:	BUILDING INTERIOR
MAILING ADDRESS: 355 EAST CENTRAL STREET	INTERIOR WALL: PLASTER
FRANKLIN, MA 02038	FLOOR COVER: CARPET
ZONING:	HEAT TYPE: FORCED H/A
PATRIOT ACCOUNT #: 779	FUEL TYPE: ELECTRIC
SALE INFORMATION	PERCENT A/C: 0
SALE DATE : 8/18/1972	SOLAR HOT WATER: NO
BOOK & PAGE : 4859-675	CENTRAL VACUUM: NO
SALE PRICE:	# OF ROOMS: 0
SALE DESCRIPTION:	# OF BEDROOMS: 0
SELLER:	# OF FULL BATHS: 0
PRINCIPAL BUILDING AREAS	# OF HALF BATHS: 2
GROSS BUILDING AREA: 3,456	# OF ADDITIONAL FIXTURES: 0
FINISHED BUILDING AREA: 1,620	# OF KITCHENS: 0
BASEMENT AREA: 1,620	# OF FIREPLACES: 0
# OF PRINCIPAL BUILDINGS: 1	# OF WOOD STOVE FLUES: 0
SKETCH	OTHER FEATURES
	ATTACHED GARAGE: 0
36	# OF BASEMENT GARAGES: 0
	DETACHED GARAGE:
	POOL: NO
	РНОТО
45 FFL 45 BMT	
(1620)	
	Control of the contro
36 OFP 6	The state of the s
OFP 6 (216)	



www.cai-tech.com
This information is believed to be correct but is subject to change and is not warranteed.

Unofficial Property Record Card - Franklin, MA

General Property Data

Parcel ID 322-050-000-000 Prior Parcel ID -022-080-

Property Owner FRANKLIN TOWN OF

Mailing Address 355 EAST CENTRAL STREET

City FRANKLIN

Mailing State MA ParcelZoning

Zip 02038

Account Number 022-080

Property Location 762 WASHINGTON ST Property Use IMP - COUNCL

Most Recent Sale Date 8/18/1972 Legal Reference 4859-675

Grantor

Sale Price 0

Land Area 0.655 acres

Current Property Assessment

Xtra Features Value 3,000 Card 1 Value Building Value 125,200 Land Value 221,400 Total Value 349,600

Building Description

Building Style GOV'T BLDG # of Living Units 1 Year Built 1856 **Building Grade AVERAGE**

Building Condition Average Finished Area (SF) 1620 Number Rooms 0 # of 3/4 Baths 0

Foundation Type STONE/BRICK Frame Type WOOD Roof Structure GABLE Roof Cover ASPHALT SHGL Siding CLAPBOARD Interior Walls PLASTER

of Bedrooms 0 # of 1/2 Baths 2

Flooring Type CARPET Basement Floor CONCRETE Heating Type FORCED H/A Heating Fuel ELECTRIC Air Conditioning 0%

of Bsmt Garages 0 # of Full Baths 0 # of Other Fixtures 0

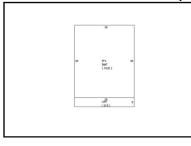
Legal Description

DEV-BLDR LOT 1A PLAN 3488 PINE GLEN ESTATES

Narrative Description of Property

This property contains 0.655 acres of land mainly classified as IMP - COUNCL with a(n) GOV'T BLDG style building, built about 1856, having CLAPBOARD exterior and ASPHALT SHGL roof cover, with 1 unit(s), 0 room(s), 0 bedroom(s), 0 bath(s), 2 half bath(s).

Property Images





Disclaimer: This information is believed to be correct but is subject to change and is not warranteed.

6/5/2020 Sales

Sales

Sale Date	Sale Price	Legal Reference	Grantor Last Name	Land Use Code at Sale
8/18/1972		4859-675		

Previous Assessments

Year	Code	Building	Yard Items	Land Value	Acres	Special Land	Total
2020	931 - IMP - COUNCL	125,200	3,000	221,400	0.66	0.00	349,600
2020	931 - IMP - COUNCL	125,200	3,000	221,400	0.66	0.00	349,600
2019	931 - IMP - COUNCL	125,300	3,000	200,600	0.66	0.00	328,900
2018	931 - IMP - COUNCL	125,300	3,000	206,300	0.66	0.00	334,600
2017	931 - IMP - COUNCL	125,300	3,000	189,300	0.66	0.00	317,600
2016	931 - IMP - COUNCL	125,300	3,100	186,200	0.66	0.00	314,600
2015	931 - IMP - COUNCL	125,300	3,100	181,600	0.66	0.00	310,000
2014	931 - IMP - COUNCL	125,300	3,100	152,600	0.66	0.00	281,000
2013	931 - IMP - COUNCL	125,300	3,500	135,700	0.66	0.00	264,500
2012	931 - IMP - COUNCL	125,300	3,500	134,100	0.66	0.00	262,900
2011	931 - IMP - COUNCL	125,300	3,500	162,400	0.77	0.00	291,200
2010	931 - IMP - COUNCL	124,700	3,600	158,700	0.77	0.00	287,000
2009	931 - IMP - COUNCL	124,700	3,600	159,700	0.77	0.00	288,000
2008	903 - FMR MUNICIPL	124,700	3,600	198,400	0.77	0.00	326,700
2007	903 - FMR MUNICIPL	149,500	3,600	218,200	0.77	0.00	371,300
2006	903 - FMR MUNICIPL	149,500	3,600	198,400	0.77	0.00	351,500
2005	903 - FMR MUNICIPL	124,700	500	178,400	0.77	0.00	303,600
2004	903 - FMR MUNICIPL	85,500	0	239,200	0.95	0.00	324,700
2003	903 - FMR MUNICIPL	0	125,000	239,200	0.95	0.00	364,200
2002	903 - FMR MUNICIPL	0	125,000	200,000	0.95		325,000

The First Congregational Church of Franklin, a/k/a The First Congregational Parish

675

of Franklin, Norfolk County, Massachusetts
less than \$100.00
for consideration paid grant to the Inhabitants of the Town of Franklin, a municipal corporation located in the County of Norfolk, Commonwealth of Massachusetts, pursuant to General Laws, Chapter 40, Section 8D,

with quitclaim covenants

AKENAK A certain tract of land lying on the south side of the public road leading from the house of Benjamin Foster to the house of Joseph B. Whiting (now known as Washington Street) in the southwesterly part of said Franklin, being the land on which the building for a meeting house now stands, containing three fourths of an acre more or less, bounded as follows:

Commencing at a stake and stones at the northwest corner of said lot on the southern boundary of the new made road; thence southwardly by a stone wall which divides said lot from lands belonging to Joseph B. Whiting twelve rods to a stake and stones; thence eastwardly ten rods to a stake and stones; thence northwardly twelve rods to a stake and stones at the southern location of said new road; thence westerly by said new road ten rods to the bound first mentioned.

Being the same premises conveyed to the by deed of The Bouth Congregational Meeting House Parish dated November 5, 1857 recorded with Norfolk Deeds, in Book 260 Page 239.

This conveyance is made on the condition, however, that in the event the Town of Franklin, acting through the Historical Commission or its successor in office, determines by vote that the granted premises do not have sufficient historical value to warrant the cost of proper maintenance, the granted premises shall be reconveyed to the grantor, its successors and assigns, within one year

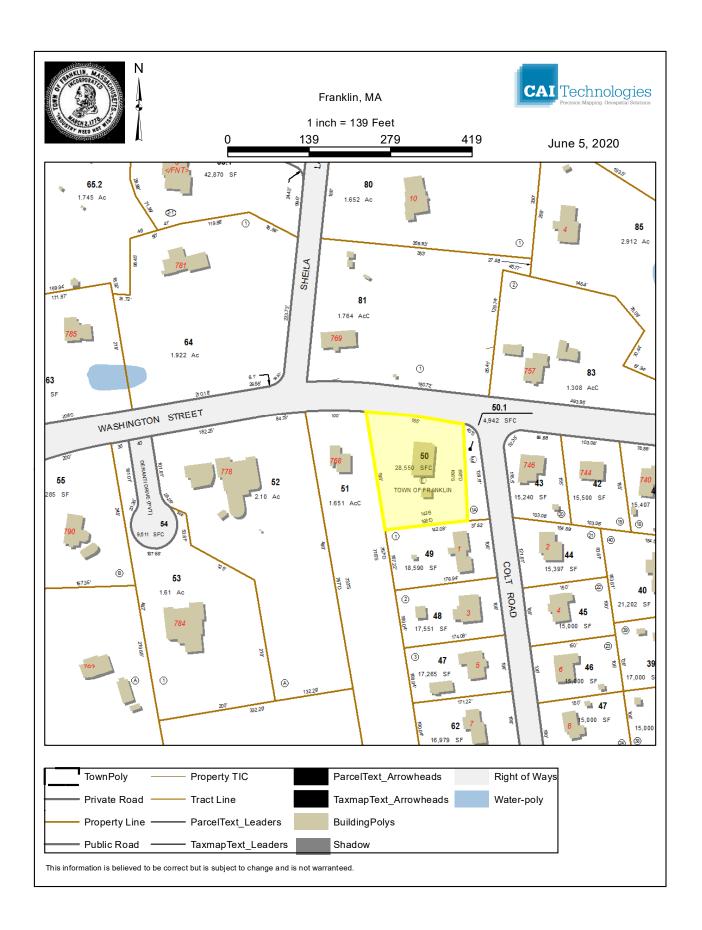
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WitnessOu	rhand 8 and seal this	24th	day of April	19.72
Tobut C	Mac Jusie	Charle	e H. Steve	
***************************************	1 11 3		e a Byg	
	The Commonwe	ulth of Massachus		
Norfolk.		,,	•	

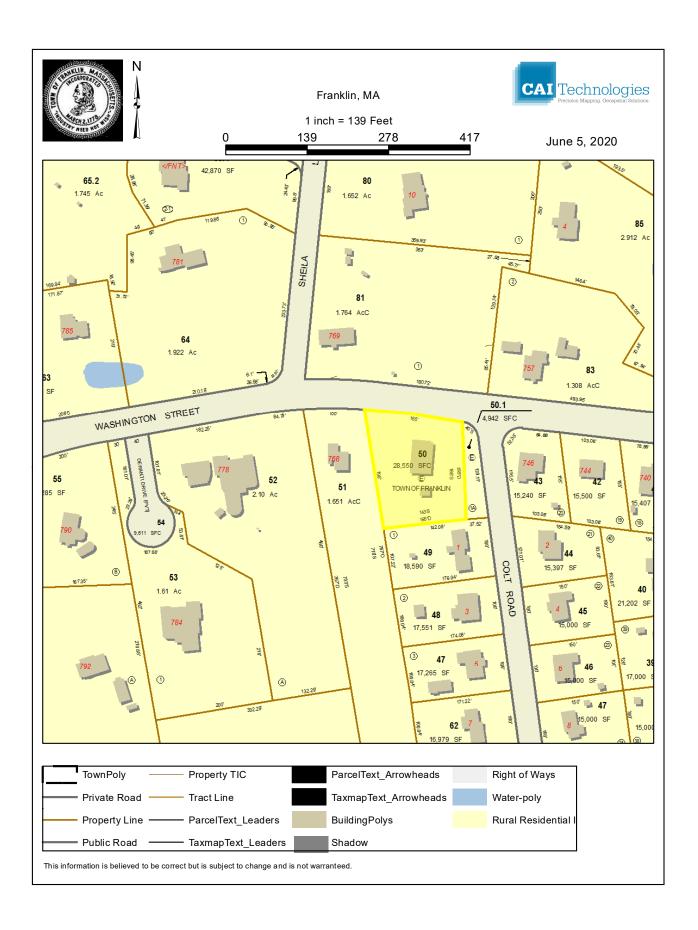
1972 Then personally appeared the above named Charles H. Jenest, James A. Pegg and Robert C. MacKenzie

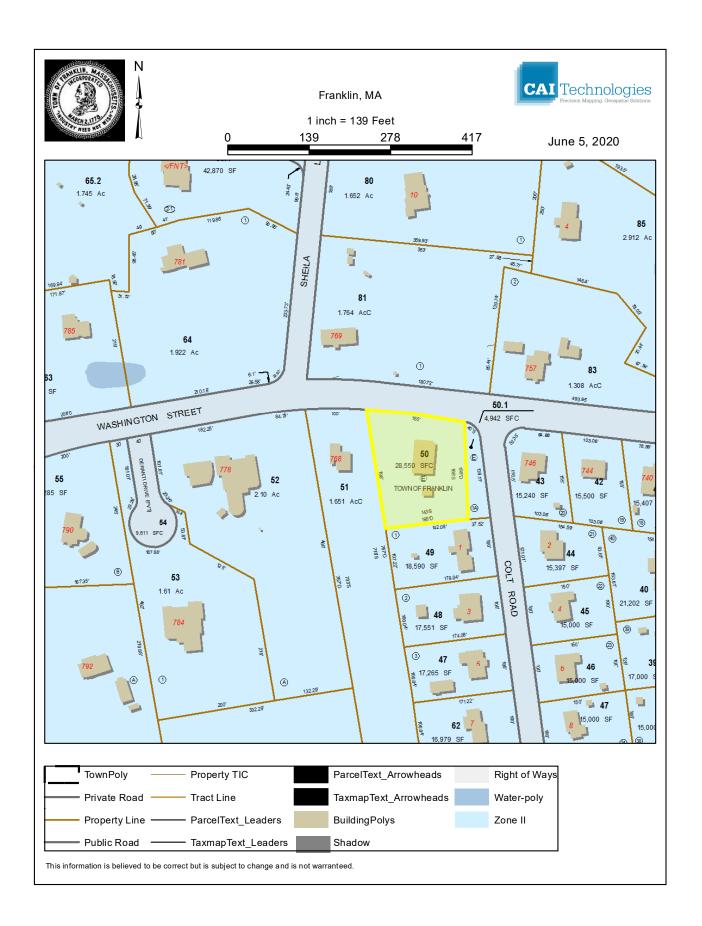
and acknowledged the foregoing instrument to be the First Congregational Church of Franklin, before me,

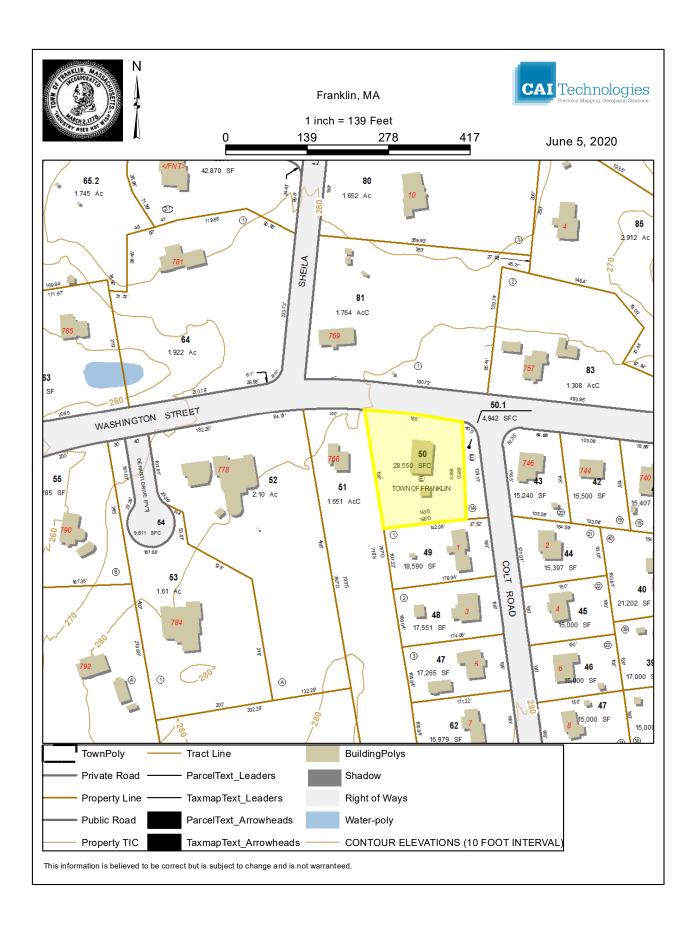
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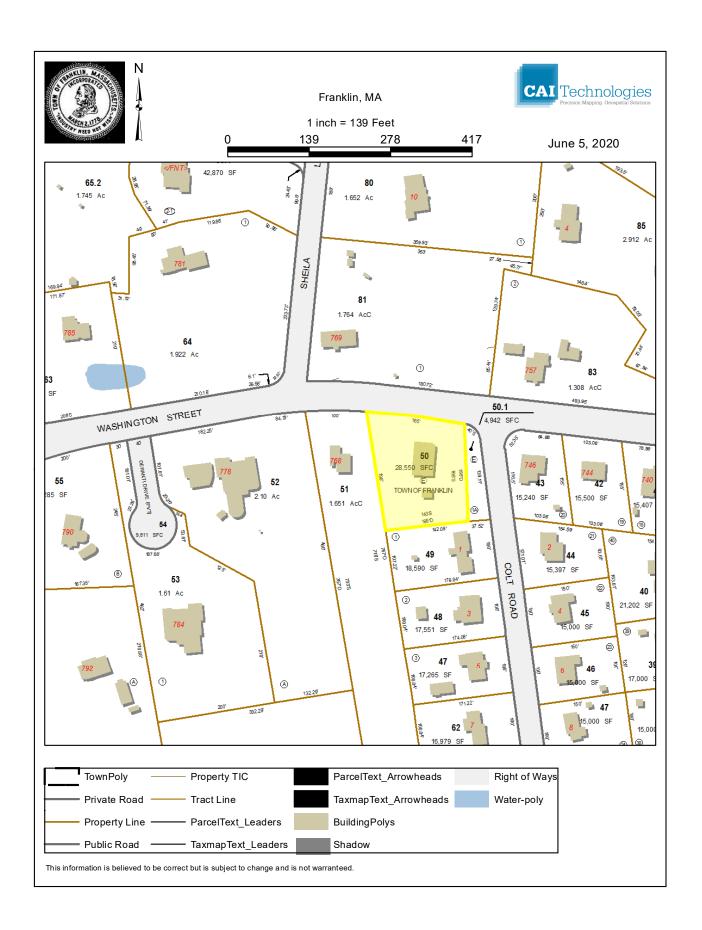
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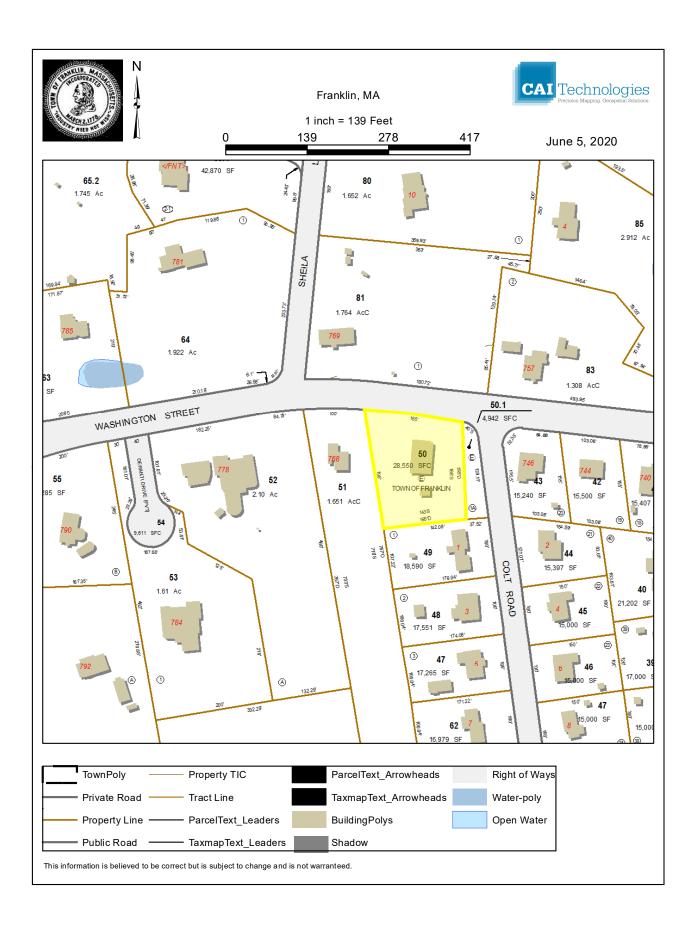














Accessibility

Existing Exterior Accessibility Conditions

This property consists of one parce and consists of a number of unmarked parking spaces as well as the existing pump house to the south. There is currently no access ramp to more directly connect this parking lot and the main building entry, this does not meets current accessibility codes.

The existing building is constructed on a relativly flat site. This should make accessibility accommodations fairly straightforward. Currently, we could not find any variances granted to accommodate the lack of accessibility.

Additional information can be found later in this report under Code Red's assessment.

Existing Interior Accessibility Conditions

The existing vertical circulation consists of one stairwell along the Northwest corner of the building. The one stairwell serves as access and egress for the buildings second foor and attic/belltower. Additionally, these stairs are winders and are not complaint with current stair dimensions and/or handrail requirements.

At the south end of the building there is a raised paltform with two stairs flanking either side to provide access. Providing wheelchair access to this platform would bring it up to compliance.

There are two single-occupant restrooms on the first floor. Each restroom has one toilet and one lavatory which are not ADA compliant. These facilities are not ADA compliant in their existing configuration.



III. Existing Conditions Survey



Close up detail at the cuploa and main roof connection. Note slite granular loss occuring on most shingles due to age.



Algea, moss and lichens visible on the cupola roof.



Algea, moss and lichens visible on the main roof, west side front.



Significant pine needle and tree branches have fallen and are collecting on the west rear roof.



Algea, moss and lichens visible on the main roof, east side rear.



Algea, moss and lichens visible on the main roof, east side front.

Roofing

Recommendation:

Replace

Timeline:

Immediate

Roofing system is reaching the end of its life expectancy; consider replacement.



Overhead view from LLB drone showing upper cupola roof, main roof and adjacent pump house roof.

Existing System Overview

The current roofing system consists of a traditional 3-tab asphalt shingle which is grey in color. The shingles are mechanically fastened (nailed) over wood sheathing.

Observed Conditions

This roofing system age is unknown, but given the visble granule loss the roof appears to be reaching the end of its useful life expectancy. Granule loss which is uniform across the roof is usually a result of normal weathering. Over time, the bond between the granules and asphalt deteriorates, and granules will be loosened and carried away by runoff.

Several areas of the roof were observed to have algea, moss and lichens, which over time can enhance water retention, and lead to premature deck rot. Algae grow fastest in shady, damp areas, such as under large trees, which this property has adjacent to the building (west). In addition, this large pine tree has a large volume of needle drop which has fallen and stayed on the south west portion of the roof. This clumping of needles remains wet after a rain event and holds moisture, adding to premature shingle and deck damage. Future renovations should consider this condition carefully and impliment a seasonally appropriate cleaning schedule to remove debris from the roof.



Detail photo at siding lap joint, observed flaking, craquelure paint.



A number of horizontal splits occurring in the siding can be observed as well as paint loss.



Horizontal split occurring in a siding board can be observed as well as paint loss.



Paint loss at the bottom most siding and trim board.



Deterioration of the paint and exposed wood trim at original roof detailing.



Missing siding piece exposing sheathing behind.

Exterior Siding and Trim

Recommendation:

Repair + Maintaine

Timeline:

2-5 years

Some siding is failing or missing; roughly 5% of the exterior facade will require wood repair.



Paint loss at cupola exposing wood siding and trim. A number of siding pieces have split horizontally.

Existing System Overview

The exterior cladding system for this building is a wood lap siding and wood trim. Original siding appears to have been cleaned, repaired, repainted during a previous renovation. Subsequent sections are in need of repaire for materail loss and deterioration since this work occurred.

Observed Conditions

The original siding overall appears to be in good condition. Some siding pieces are failing or missing and will need to be repaired to prevent water infiltration and damage. Overall, the wood trim and decorative features appear in good condition.

There is observed wear of the surface paint finish throughout as well as some missing paint, expsosing the raw wood below. Left untreated, the wood can detertiorate at a faster rate. There is also vegetation and lichen growth on the west facade which should be removed to prevent further damage. The granite stone base are in good condition but should be cleaned and any open joints should be repointed. All sealants have reached their end of life expectancy and will need to be removed and replaced to ensure a weather tight building envelope.



Evidence of water damage and paint loss at window sill on east side.



Evidence of putty loss and damaged muntin on east side window.



Evidence of cracked light at second floor window.



The sash stile show signs of wear and damage at second floor. Sash bars are also deteriorating.



Evidence of cracked light at second floor window.

Windows

Recommendation:

Repair + Maintaine

Timeline:

5-7 Years

Windows are showing signs of age but can be repaired and maintained; consider repairs to avoid further damage.



Exterior picture of typical 12 over 12 window. Notice the damaged muntin rail referenced on opposite page.

Existing System Overview

All existing window units appear to be original to the building. Windows consist of single pane, non-insulated glazing units in wood sash and frames.

Observed Conditions

At the second floor, some window panes showed evidence of damage (cracked) glazing units. Some of the glazing putty have reached their life expectancy and have begun to loosen and fall. Exterior sealants have also reached life expectancy and are starting to show signs of age such as cracking. Failing sealant exposes raw wood or joints which in turn has the ability to begin to deteriorate.

Damaged interior finishes should be repaired and repainted. With these repairs and regular maintenance, the window units should last another 10-20 years until they will need to be repaired and repainted.



Close up detail at the ceiling showing paint and plaster cracks.



Close up detail at the ceiling showing paint and plaster cracks.



Paint cracking and peeling in main assemby room.



Cracked and peeling paint at wood trim in main assembly room.



Apparent water damage and peeling paint at second floor.



Apparent water damage to ceiling panel at second floor.

Interior Finishes

Recommendation:

Repair

Timeline:

2-5 years

The interior paint and plaster are showing signs of peeling and crakcing.



Wall supporting second floor mezzanine (opposite of stair) is bowing. This should be further evaluated.

Existing Overview

We observed visual evidence of peeling paint and craking plaster inside of the building.

Observed Conditions

The mezzanine showed signed of water damage on the ceiling, presumably from the cupola above. There are numrous areas in the main assebly room where paint loss is prevalant. Signs of cracked plaster can also be observed.

One wall, the northwest wall in the main assembly room, showed sign of bulgin out from vertical from starting about 36" above the floor to about 6'. This should be evaluated to determine its cause (water, damage, pest infstation, structural settleing) so that a repair can be determined.

A restoration project should include paint removal and plaster repair.



Close up detail at a window sill (typical) showing pest and animal waste.



Observed bird droppings inside of the bell tower.



Observed dead bat in the main lobby.



Observed bird droppings on the stair to the attic.



Evidence of animal droppings.



Evidence of mouse droppings.

Pests

Recommendation:

Clean + Mitigate

Timeline:

Immediate

There are numerous locations that have evidence of pests and/or animals.

Existing Overview

We found visual evidence of animal and pest waste inside of the building.

Observed Conditions

The attic showed signed of bird, bat and mouse excriment on the stairs, and floors. On the first floor there was a deceased bat in the main lobby. Window sills show sign mouse excriment as well as pests. Main assemebly floor area also showed signs of animals having been inside for a period of time.

Animal waste that becomes airborn can transmit disease. It is recommended that a thourough cleaning be performed to remoave all existing waste and a long term pest control plan be put into place to begin to get the situation under control.



IV. Supporting Reports

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154 TURNPIKE ROAD, SUITE 200 SOUTHBOROUGH, MA 01772

Memorandum

Date:	March 5, 2020	Project#:	198566
To:	Brian Valentine - LLB Architects		
From:	Paul Moan, P.E Code Red Consultar	nts	
Re:	South Franklin Meeting House		
Cc:	Zach Blanchard, P.E Code Red Cons	sultants	

This memorandum has been prepared to document our review of the "A Comprehensive Investigation & Analysis of Existing Conditions at the South Franklin Congregational Meeting House" report developed by Civitects. The report details the existing conditions as well as several upgrades to the South Franklin Meeting House building that may be needed as part of an upcoming renovation. The review of the report was limited to Chapter 2: *Existing Conditions Report: Architectural;* Chapter 5: *Codes and Standards,* and the Alternative Compliance Demo and Floor plans, Option 1 and Option 2.

The report was developed in 2015 and addressed several required upgrades in accordance with the 8th Edition of the 780 CMR, Massachusetts State Building Code, which is no longer in effect. As such, this memorandum includes code provisions in accordance with the 9th Edition of 780 CMR, which adopts and amends the 2015 International Building Code and 2015 International Existing Building Code.

The following table details the major comments on the plans and study as well as the key code changes as part of the adoption of the 9th Edition of 780 CMR:



Civitects S	Study		CRC Comments
Chapter 1: E	Existing Conditions Re	eport: Architectural	
			Updated Relevant Codes should read
RELEVANT COD	DES AND REGULATIONS		780 CMR, Massachusetts State Buildi International Building Code and 2015
IBC IEBC 780 CMR 521 CMR IECC	IEBC 2009 International Existing Building Code 780 CMR Massachusetts Amendments to the International Building Code, 8 th Edition 521 CMR Massachusetts Architectural Access Board (MAAB) Rules and Regulations		521 CMR, Massachusetts Architectur ADA, Americans with Disabilities Ac
ADAAG 527 CMR 12 NFPA 72 NFPA 101			2018 International Energy Conservati
IMC ASHRAE Std 62			248 CMR, Massachusetts Fuel, Gas, a
			2015 International Mechanical Code v
			Reference to the Life Safety Code sho Massachusetts
	uilding Value: xtra Features Value:	\$125,300 \$ 3,100	The updated FY 2020 property card h different:
<u>La</u>	and Value; otal Value:	\$152,600 \$281,000	Br Xtra Fe

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ng Code, with amendments to 2015 International Existing Building Code

al Access Board

on Code with MA amendments

nd Plumbing Code

with MA amendments

uld not be made as this is not applicable in

has an updated value, although not significantly

Card 1 Value uilding Value 125,200 atures Value 3,000 Land Value 221,400 Total Value 349,600



		Calcula	ation		It is recommended to round frac
	84.125" / 168.5" / 1	/ 18" = 4.66 [4 o 18" = 9.36 [9 o	occ.]x(14 Rows) = 56 occ.]x(12 Rows) = 48 cc.]x(1 Row) = 9 c.]x(1 Row) = 5		whole number, as opposed to do all occupant load calculations.
	149 NSF	/ 15 = 10	0.[A(11.011) 0	-	
	75 NSF /	5 = 15		_	
	65 NSF /	5 = 13		_	
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5 to and 5	* * * * * * * * * * * * * * * * * * * *				
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			e north wall of the Meeting Ro		This section has been updated to
vestibule. Ar.	In exit access doorway is	vestibule. An exit access doorway is defined as a door along the path of egress travel from an occupied room, area or space where the path of egress enters an intervening room. The existing pair of exit access doorways from the Meeting Room to the Vestibule does not meet the remoteness criteria indicated in the code (Table D.3 below). Per IBC 1015.2.1 exit access doorways must be placed a distance apart equal to not less than one-half of the length of the overall diagonal dimension of the building or area to be served measured in a straight line between exit doors or exit access doorways.			_
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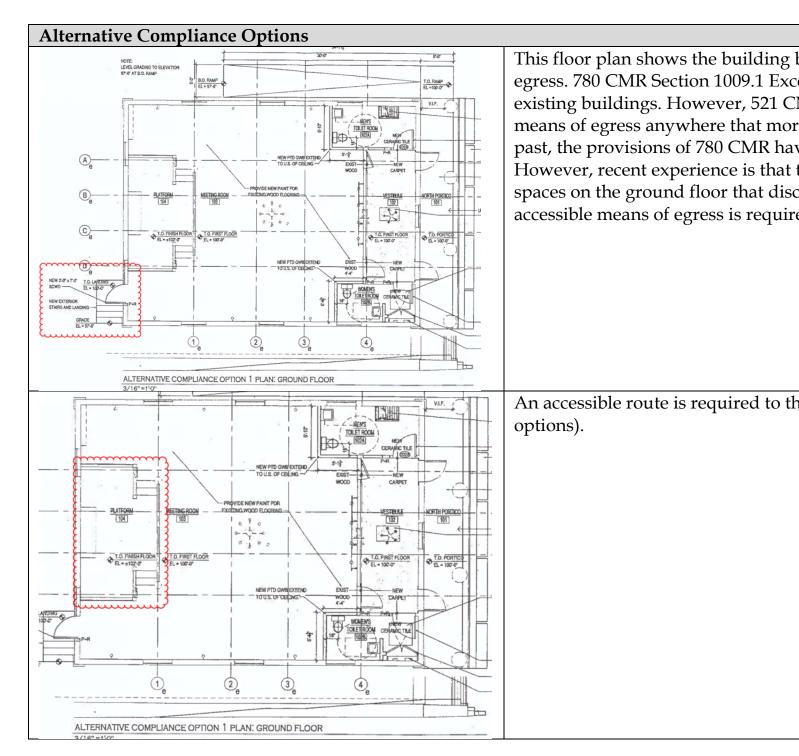
tional numbers for occupant load up to the nearest wn, to add a level of conservatism. This applies to
780 CMR Section 1006.2.1.
700 CIVIL OCCUOIT 1000.2.1.
780 CMR Section 1007.1.1. This requirement is hout the report.
s factor for stairs are added as well, as the building stairs for the upgrade.
ng spots that will be provided is determined, the aces should comply with 521 CMR Section 23.2.1. In for technical infeasibility be provided as this will eks any variances.
ation as "Historical" could also form the variances, with the appropriate supporting storic Commission. ariance from the AAB. If the 30% threshold is are required to be accessible. It would be difficult intrance is not the public entrance to the building
it accessible).



No Place of Assembly requirements is	n accordance with	As the project will likely trip 30% and
521 CMR are provided.		assembly greater than 49 occupants, s assembly area in accordance with 521
General Accessiblity	If the project cost exceeds the 30% the will need to be accessible.	
Chapter 5: Codes and Standards		
Existing Conditions are as follows: <u>Height:</u> 33 feet (assumed) <u>Area:</u> 35'-0" x 52'-4" = 1,843 GSF (total building footprint)		Note that the height and area of the b no change of occupancy or addition a
Allowable (Assuming A-3 Assembly Use C Height: 1 story, 40 feet Area: 6,000	Group)	
3. Historic Buildings (IEBC 202) (IEBC Ch. 11) The original building was constructe Historical Commission Form B date not currently listed on the Massache Places. The town may consider nor on the register. Once listed, the buil Ch. 11.	d March 2011.). The building is usetts Register of Historic minating the building for inclusion	Note that a historical building's comp option for compliance and is not the re
Calculation N/A 85.125" / 18" = 4.72 [4 occ.]x(14 Row 84.125" / 18" = 9.36 [9 occ.]x(12 Row 168.5" / 18" = 5.19 [5 occ.]x(1 Row) = 93.5" / 18" = 5.19 [5 occ.]x(1 Row) = 149 NSF / 15 = 10 75 NSF / 5 = 15 65 NSF / 5 = 13	vs) = 48 = 9	It is recommended to round fractional whole number, as opposed to down, tall occupant load calculations.
FIEBC Ch. 11, the required 1-hr. ra	fied as historic in accordance with	Currently, the building is not conside Commission. Therefore, this section is

will continue to function as a place of pecific requirements associated with the CMR Chapter 14.00 should be provided. shold, then all public portions of the building ailding are not required to be re-evaluated as e occurring. iance with Chapter 11 of the MEBC is an quired evaluation method. numbers for occupant load up to the nearest o add a level of conservatism. This applies to ed Historic by the Massachusetts Historical not applicable.

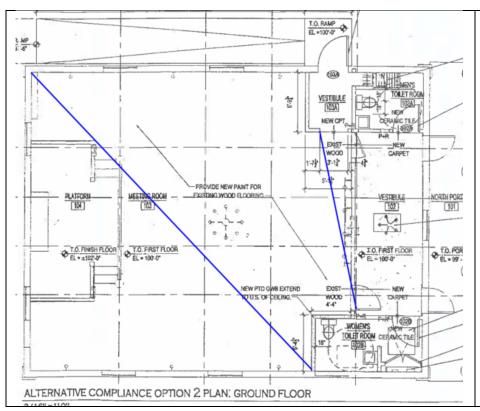




peing provided with only one accessible means of eption 1 omits accessible means of egress in MR Section 20.11.1.a requires two accessible e than one means of egress is provided. In the ve outweighed this specific language in 521 CMR. The provisions of 521 CMR have been applied to tharge directly to grade. Therefore, another ed to be provided from the space.

e existing stage/altar space (both compliance

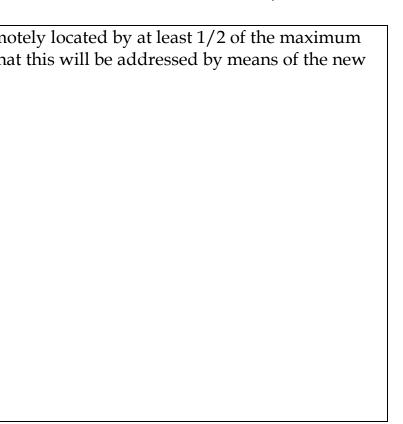




The existing egress points are not rendiagonal of the floor. It is expected the exit

Code Updates

The following table displays relevant code changes from the 8th Edition of 780 CMR to the project.



e 9th Edition of 780 CMR applicable to the



8th Edition Code Section	9th Edition Code Section
1015.1	1006.2.1
1015.2.1	1007.1.1
1008.1.2	1010.1.2
1008.1.9.8	1010.1.9.9 & 1010.1.10(1)

Conclusion

If you have any questions or comments about the information contained in this documer Sincerely,

CODE RED CONSULTANTS

Zach Blanchard, P.E.

Ten Har

Paul J. Moan, P.E.

Carl Jures Moan

Code Requirement Change

No Functional change applicable to the project.

No Functional change applicable to the project.

The code change includes clarifying language that doors are required to swing in the direction of egress where the room serves more than 49 occupants, and not when the door itself serves 49 occupants. This is not expected to affect the project as it was a code "clarification" and not a code "change".

Added provisions that where panic hardware is required, operation of the panic hardware releases the lock on an electromagnetically locked door. This now allows for the ability to use electromagnetically locked egress where panic hardware is required.

t, please do not hesitate to contact us.

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ROOME & GUARRACINO, LLC

Consulting Structural Engineers

48 Grove Street Somerville, MA 02144 Tel: 617.628.1700 Fax: 617.628.1711

Structural Condition
Assessment and Feasibility Report
on
South Franklin Congregational Meeting House
at
762 Washington Street
Franklin, Massachusetts



Prepared for: LLB Architects 161 Exchange Street Pawtucket, RI 02860

ROOME & GUARRACINO, LLC

Consulting Structural Engineers

48 Grove Street Somerville, MA 02144 Fax: 617.628.1711 Tel: 617.628.1700

Date: March 11, 2020

To: Brian L. Valentine, AIA, NCARB, LEED AP – LLB Architects

Carmine Guarracino, P.E. From:

South Franklin Congregational Meeting House Project:

Location: Franklin, MA

Reference: Structural Conditions Assessment Report

Overview

This letter summarizes our findings regarding the present condition of the structure for the South Franklin Congregational Meeting House, located at 762 Washington Street in Franklin, Massachusetts, as well as, our recommendations regarding future uses of this structure. These observations and recommendations are based on information provided to us by your office and our field observations on March 11, 2020. Some existing architectural drawings were provided by LLB Architects, that outlined general dimensions of the building. In addition, LLB Architects provided an assessment conducted by DM Berg Consultants, P.C. in 2015. No existing structural drawings are available for the original building, and as such, our comments are based solely on our field observations and other information provided by LLB Architects. Our field observations were only visual surface observations and we have not cut any holes in building finishes to verify structure, nor have we done any testing to determine the structures underlying condition.

Existing Conditions

On Tuesday, March 11, 2020, I toured the existing building with you. The original building was a church built in 1856 and consists of a one-story wood frame. Above the entry space, there is a partial mezzanine. From the mezzanine space, there is access to the main steeple.

I first toured the perimeter of the building. The granite block, foundation wall is partially visible from the outside of building. No signs of cracking and or settlement was apparent. The foundation wall is in good condition. (See photo 1)

Four main pillars support the roof at the main entry of the building. The third pillar from the left (looking at the entry) has settled. The reason for settlement is because of damage due to moisture. (See photo 2)

ROOME & GUARRACINO, LLC
South Franklin Congregational Meeting House, Feasibility and Assessment Franklin, MA



Photo 1



Photo 2

South Franklin Congregational Meeting House, Feasibility and Assessment Franklin, MA

We proceeded down into the crawl space and noted that it was relatively dry. The first floor sits above a 3-foot crawl space, and is framed with 3"x5" joist spaced at approximately 18" on center. The joist span north to south, from the front entrance of the building to the back wall. The joists are supported by the foundation walls at the exterior, and frame into four lines of 7"x7" wood girders at the interior. The girders are supported by along its length by four equally spaced timber posts. The posts sit on stone that bear directly on the ground.

It was noted the first line of girders and multiple timber posts were subject to powder post beetle damage. In addition, many posts are splitting and crushing at their base. (See photo 3.)



Photo 3

We proceeded up passed the mezzanine, to view the roof structure. The roof is made up of sloped rafters, supported at the top of the exterior bearing walls, the ridge beam, and midspan by purlins. The purlins are supported by wood and iron rod trusses. It was noted the some of the rafters were subject to light checking, but generally thee roof is in good condition. (See Photo 4)

ROOME & GUARRACINO, LLC
South Franklin Congregational Meeting House, Feasibility and Assessment Franklin, MA



Photo 4

We then proceeded up into the steeple. The steeple was framed with four corner posts and wood beams. It was noted that the steeple was also dry and in good condition.

Lastly, we proceeded down into the main assembly area. Although the wall framing was not visible to us, there was no evidence of racking of bowing of the bearing walls. (See Photo 5.)



Photo 5

South Franklin Congregational Meeting House, Feasibility and Assessment Franklin, MA

Assessment of Existing Conditions

While only portions of the structure visible from inside, there is evidence of structural distress from inside the building. The areas of framing noted, which have failed at the first floor due to age and insect damage are concerning and require major structural repairs. The damaged wood girders and timber post in the crawl spaced need to be repaired and or replaced.

The roof and steeple framing appear to be in sound condition, however, as in most older buildings, certain areas could be compromised due to age, overloading or moisture from leaking pipes, etc.

This letter report addresses only those structural problems referred to above and observed during this walk-through. Other structural problems may be concealed behind finishes, plaster ceilings and walls, since few of the structures were exposed during the visit. Although care has been taken in the performance of the inspection, no representation regarding latent or concealed defects, which may exist, is made.

If you have any further questions, or if we can be of any further assistance, please feel free to call.

Very truly yours,

ROOME & GUARRACINO, LLC

Carmine Guarracino, P.E.

Partner



South Franklin Meeting House, Franklin, MA

MEP RECOMMENDATIONS - April 3, 2020

The proposed renovations to the South Franklin Meeting House located at 762 Washington Street, Franklin, MA include renovations to the plumbing, HVAC, and electrical systems.

The scope as outlined below is based upon Architectural drawings A-1 and A-2 dated January 16, 2015 and our site meetings on December 16, 2014 with the Town of Franklin's Building Inspector and a follow up visit on March 11, 2020.

HVAC:

Provide an air handling unit (AHU) with gas heating and electric cooling located in the mechanical mezzanine. This AHU will be ducted to both the main open space as well as the entry foyer and will have economizing capability. The outside air ductwork to be routed to existing louver within the bell tower to maintain the historical appearance of the building.

Use of localized electric heating within the foyer and restroom(s) will be installed to offset air infiltration and/or localized heating.

These systems will replace the existing electric cabinet unit heaters installed throughout the spaces.

Toilet exhaust fan to be provided for the 1st floor restroom(s) and be ducted up to an existing louver within the bell tower.

The temperature control system to provide demand ventilation based on carbon monoxide levels to minimize energy use as well as networked into the Town's building management system for remote control.

HVAC

- Air handling unit (1 @ 4,000 CFM, 1,000 CFM Outdoor Air, 12.5 tons with associated outdoor condensing unit, economizer and gas fired duct furnace). This size assumes the current assembly occupancy and seating density will be maintained
- Ductwork supply, return, and exhaust distribution, diffusers and grilles for all areas.
- Miscellaneous electric cabinet unit heaters and baseboard for the foyer and restroom(s).

Electrical

The building is serviced by a 120/240V single phase, 3 Wire service distributed through an Arrow Hart/Murray 200 amp panelboard with 40 pole spaces. It is anticipated that this service size is insufficient for the recommended requirements of the building and a new 208 V, 3 phase, 4-Wire, 200

South Congregational Meeting House 762 Washington Street Franklin, Massachusetts April 3, 2020

N|V|5 Job No. 20200175 amp service is recommended. Existing branch circuity to be renovated as needed to suit the updated electrical plans.

Site lighting consists of exterior egress lighting on daylight sensors and time clock controlled. These fixtures do not appear to meet the required 0.3 to 0.4 ft/candles standard and are recommended to be replaced. The interior lighting fixtures do not meet current codes and are recommended to be replaced along with an updating of switching and occupancy lighting control. There are emergency battery backup lighting units serving the large open space and entry foyer which appear to be beyond their useful life expectancy - we recommend that these units be replaced with new. The existing exit signage does not meet current code and we recommend these units be replaced with new.

The fire alarm system serving the building consists of localized smoke detectors connected to a security panel with an automatic dialer to a security company. Current code does not require a fire alarm system in A-3 Assemblies occupancies with an occupant load less than 300 persons. Good design practice is to retain the existing smoke detection and add CO monitoring (based upon the proposed upgrade to gas heating) and the addition of horn/strobe notification appliances throughout. It is assumed the existing security panel can accommodate the proposed upgrades.

Plumbing

The current building has a ½" cold water service and a 4" waste that is reported to discharge to a septic system but it was noted that public sewer is evident in the street. There are two restrooms that are not code compliant as they lack hot water, accessible space, and ventilation. There is no gas service to the building but again it was noted that gas service appears evident within the neighborhood.

We recommend that a new sanitary connection to the public system on Washington Street in front of the building be made. A separate site/civil consultant evaluation of the condition of the septic system be completed to determine whether it is viable for reuse however for purposes of this study it is assumed that the existing septic system is beyond its useful life expectancy.

A new gas service is recommended for efficient heating connect to the existing utility infrastructure underneath the adjacent streets.

Based on the proposed occupancy of Assembly (A-3) the plumbing code requires both a Men's and Women's restroom. We recommend that discussions be started with the local plumbing and building inspectional services to determine whether a variance request for an accessible unisex restroom is suitable given this study's goal of maintaining the current building size and historic character. A variance request will likely require multiple approvals from local jurisdictions, accessibility, and state plumbing board agencies.

- Natural gas piping and service.
- New Plumbing fixtures and services for restroom(s) including sanitary, vents, and piping.
 - New domestic electric point of use water heater for restroom(s) and cold water piping plus insulation for each. New cold water for restroom(s) to be connected to the existing service.
 - New toilet(s) and lavatory(s), all with fixture carriers, sanitary and vent piping connecting to the existing service.

South Congregational Meeting House 762 Washington Street Franklin, Massachusetts April 3, 2020

2

Job No. 20200175

Fire Protection

Per Massachusetts General Law c. 148 s. 26G, and the Massachusetts State Building Code, 780 CMR 9th edition, the building is not required to be sprinkler protected due to the size (<5,000 SF) and occupancy (Assembly A-3 with less than 300 occupants).

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March 19, 2020

Brian Valentine LLB Architects 161 Exchange Street Pawtucket, Rhode Island 02860

RE: FLI Project #: 20-1311

Inspection for Asbestos Containing Materials at South Franklin Congregational Meeting House 762 Washington Street Franklin, Massachusetts

Dear Mr. Valentine,

FLI Environmental, Inc. performed an inspection for asbestos containing materials (ACMs) at the property located at the address noted above. This report outlines the initial visual survey, sample collection and summary of analytical results provided by FLI.

Inspection Summary:

Asbestos Inspector: Jody Freitas

License #: AI900238

Date of Inspection: March 11, 2020

Total Materials Sampled: 5

Samples Analyzed At: Asbestos Identification Laboratory, Inc.

NIST/NVLAP Certification#: 200919-0 MassDLS Lab Certification#: AA000208

Scope and Approach:

FLI provided a state licensed and EPA AHERA accredited asbestos inspector to perform an inspection of the subject area(s). The purpose of the inspection was to identify and sample building materials suspected to contain asbestos. Suspect materials include thermal system insulation, fireproofing, soundproofing, plasters, skimcoating, spray-applied or trowel applied finishes, ceiling & floor tiles, sheet flooring, caulking, glazing, mastics, adhesives, cement board products, roofing materials and numerous other products. Materials having the same function/application, similar color, texture or other observed similar characteristics were grouped together and sampled as one homogeneous material. A minimum of 2 samples of each homogeneous material were collected.



Homogeneous materials determined to be non-suspect by the inspector (if observed), include concrete floors, wood flooring/joists, concrete block, black/brown vinyl flexible duct connectors, fiberglass insulation, armaflex (neoprene) insulation, rubber, plastic, ceramic tile, glass and metal.

If present, areas within walls, drywall encased columns and above ceilings were inspected where possible in accessible representative locations. However, each individual enclosed area was not inspected. Accessible areas beneath such surfaces were examined and sampled, and material quantities were estimated based on these observations.

Bulk Sampling:

Bulk samples were collected in a random manner and submitted via chain of custody to the analytical laboratory. The samples were analyzed by Polarized Light Microscopy per EPA Method 600/R-93-116, July 1993. The detection limit of the EPA recommended method is one percent asbestos by weight. Materials containing greater than one percent asbestos are treated as asbestos-containing as required by the EPA. The laboratory is accredited by the National Institute of Standards and Technologies NIST/NVLAP Program and licensed by the Massachusetts Department of Labor Standards (DLS) for asbestos analysis in bulk materials.

Asbestos Containing Materials:

Any homogeneous material having at least one (1) sample analytically identified as containing one percent (1%) asbestos or greater is categorized as an asbestos containing material. Any material analytically identified as containing any asbestos fibers is categorized as an asbestos containing waste material. None of the materials sampled and analyzed were determined to be asbestos containing. Laboratory Analytical Data Sheets for each sample analyzed are included in Appendix B.

Non-Asbestos Containing Materials:

Homogeneous materials where each sample analyzed was determined not to contain asbestos are categorized as non-asbestos. A summary of non-asbestos materials is provided in Appendix A. Laboratory Analytical Data Sheets for each sample analyzed are included in Appendix B.

Remarks and Limitations:

1. Additional suspect materials may be present beneath surfaces (multiple layers) or within chases or crawlspace areas that were unknown or unaccessible at the time of the inspection but may be discovered during demolition, renovation or maintenance activities. Any additional suspect materials not identified in this report that become exposed during building renovation, maintenance or demolition should be sampled and analyzed for asbestos content prior to disturbing.



- 2. Each identified asbestos containing material must be removed by a licensed asbestos abatement contractor prior to being disturbed by building maintenance, renovation or demolition activities.
- 3. This report is not meant to be used as an asbestos abatement plan or abatement specification. Material quantities and locations are estimates and approximations and should not be used to obtain pricing from contractors. FLI recommends contracting for abatement after an abatement specification is prepared by a licensed Asbestos Project Designer.
- 4. Roofing materials were not able to be accessed at the time of the survey. Suspect roofing materials sjould be sampled and analyzed to determine asbestos content prior to disturbance.

Should you have any questions or need additional information, please contact our office at (781) 251-0040. Thank you for the opportunity to provide you with our services and we look forward to working together in the future.



APPENDIX A

Suspect Materials Found Not to Contain Asbestos								
Sample # ('s)	Material	Sample Location A	Sample Location B	Sample Location C				
01 A,B,C	Faux Tile Sheetflooring	Bathroom	Bathroom	Bathroom				
02 A,B,C	Mosaid Sheetflooring	Bathroom	Bathroom	Bathroom				
03 A,B,C	Gypsum	Stairwell	Stairwell	Stairwell				
04 A,B,C	Joint Compound	Stairwell	Stairwell	Stairwell				
05 A,B,C	Glazing	Window Exterior	Window Exterior	Window Exterior				



APPENDIX B

BULK SAMPLE LABORATORY DATA SHEETS



Asbestos Identification Laboratory

165 New Boston St., Ste 227 Woburn, MA 01801 781-932-9600

Web: www ashestosidentificationlab.com Email: mikemanning@asbestosidentificationlab.com Batch:



51707

March 18, 2020

762 Washington St., Franklin, MA **Project Name:**

Project Number: 20-1311 Date Sampled: 2020-03-11 Work Received: 2020-03-16 Work Analyzed: 2020-03-18

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

Dear Jody Freitas,

Jody Freitas

FLI Environmental

Dedham, MA 02026

69 Bridge Street

Asbestos Identification Laboratory has completed the analysis 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. Samples containing subsamples or layers will be analyzed separately when applicable. Reports are kept at Asbestos Identification Laboratory for three years. 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
- · State of Vermont, Department of Health Environmental Health License AL934461

Thank you Jody Freitas for your business.

Michael Thaming

Michael Manning Owner/Director

March 18, 2020

Jody Freitas FLI Environmental 69 Bridge Street Dedham, MA 02026 Project Name: 762 Washington St., Franklin, MA

 Project Number:
 20-1311

 Date Sampled:
 2020-03-11

 Work Received:
 2020-03-16

 Work Analyzed:
 2020-03-18

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

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
Labl	ID				
01A	Faux Tile Sheet Flooring	Bathroom	multi		0 None Detected
5765					
01B	Faux Tile Sheet Flooring	Bathroom	multi		0 None Detected
5765	96				
01C	Faux Tile Sheet Flooring	Bathroom	multi		0 None Detected
5765					
02A	Mosaid Sheet Flooring	Bathroom	multi		0 None Detected
5765					
02B	Mosaid Sheet Flooring	Bathroom	multi		0 None Detected 0
57659 02C	Mosaid Sheet Flooring	Bathroom	multi	Cellulose 3	0 None Detected
5766	00			Non-Fibrous 7	70
03A	Gypsum	Stairwell	multi		.0 None Detected
5766	01			Non-Fibrous	,,,
03B	Gypsum	Stairwell	multi		0 None Detected
5766	02				
03C	Gypsum	Stairwell	gray	Cellulose Non-Fibrous	2 None Detected 8
5766					
04A	Joint Compound	Stairwell	white	Non-Fibrous 10	00 None Detected
57660 04B	Joint Compound	Stairwell	white	Non-Fibrous 10	0 None Detected
5766					
04C	Joint Compound	Stairwell	white	Non-Fibrous 10	0 None Detected
5766	06				
05A	Glazing	Window Exterior	gray	Non-Fibrous 10	None Detected
57660					
05B	Glazing	Window Exterior	gray	Non-Fibrous 10	00 None Detected
5766	08				Danie 4 of 0

Wednesday 18 March Page 1 of 2

FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
05C	Glazing	Window Exterior	gray	Non-Fibrous 100	None Detected
576609					
Wednesday 18 March		End of Report		Pa	ge 2 of 2
Analyzed by:	Ish long	Batch: 51707			

69 Bridge Street • Dedham • MA • 02026 (781) 251-0040 fax (781) 251-0901

ASBESTOS BULK SAMPLE CHAIN OF CUSTODY RECORD

Date: 3/11/2020

FLI Project #: 20-1311

Client:	Client: LLB Architects			Date	Date: 3/11/2020	SS	
Site:	Site: South Franklin Congregational Meeting House	Meeting House		Sampled by: Jody Freitas	Jody F	reitas	
•	762 Washington Street Franklin Massachusetts	n. Massachusetts		License #:	A19002	38	1
Sample # (s)	Material	Location A	Location B	Location C	Asbesto PLM 7	S Analys	Asbestos Analysis Positive PLM TEM Point (y/n)
01 A,B,C	Faux Tile Sheetflooring	Bathroom	Bathroom	Bathroom	×		
02 A,B,C	Mosaid Sheetflooring	Bathroom	Bathroom	Bathroom	×		
03 A,B,C	Gypsum	Stairwell	Stairwell	Stairwell	×		
04 A,B,C	Joint Compound	Stairwell	Stairwell	Stairwell	×		
05 A,B,C	Glazing	Window Exterior	Window Exterior	Window Exterior	×		
Relinquished by:			11.12030	Tu	Tumaround: Rush	Rush 24-Hr	Hr 48-Hr
Received by:	CO. C. R.D.	NI .	1.0	1	\cup	3-Day	4-Day 5-Day
Relinguished by:		14K)	Date/Time			Date Needed	pap
Received by:			Date/Time				
•			Date/Time	ı			Page 1



APPENDIX C

BULK SAMPLE LABORATORY DATA SHEETS



APPENDIX C

Other Hazardous Materials						
Material	Location	Quantity				
4 ' Light Ballasts	2nd Floor	5 EA				
4' Lamps	2nd Floor	5 EA				



APPENDIX D

LICENSES AND CERTIFICATIONS





THE COMMONWEALTH OF MASSACHUSETTS

EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT

DEPARTMENT OF LABOR STANDARDS

19 Staniford Street, Boston, Massachusetts 02114

CERTIFICATION FOR ASBESTOS ANALYTICAL SERVICES

ASBESTOS IDENTIFICATION LABORATORY 165 NEW BOSTON STREET **SUITE 227** WOBURN MA 01801

LICENSE: AA000208

EXPIRES: Tuesday, June-23, 2020

IN ACCORDANCE WITH MGL CH. 149 § 6B AND 453 CMR 6.08 THIS CERTIFICATE IS ISSUED BY THE DEPARTMENT OF LABOR STANDARDS TO THE ABOVE NAMED ENTITIY TO PROVIDE THE ASBESTOS ANALYTICAL SERVICES SPECIFICALLY LISTED BELOW.

> CLASS A CERTIFICATE CLASS C CERTIFICATE

> > WILLIAM D. MCKINNEY, DIRECTOR

Mailing Address:

ASBESTOS IDENTIFICATION LABORATORY 165 NEW BOSTON STREET SUITE 227 WOBURN, MA 01801

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200919-0

Asbestos Identification Laboratory

Woburn, MA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2019-07-01 through 2020-06-30

Effective Dates



For the National Voluntax Laboratox Accreditation Program

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69 BRIDGE STREET DEDHAM, MA 02026 PHONE 781.251.0040 FAX 781.251.0901

March 20, 2020

Mr. Brian Valentine LLB Architects 161 Exchange Street Pawtucket, Rhode Island 02860

RE: Paint Chip Sampling for Lead at

South Franklin Congregational Meeting House

Franklin, Massachusetts FLI Project # 20-1311

Dear Ms. Powers,

FLI provided a technician to collect paint chip samples for lead analysis from the above referenced property as directed.

Inspection Summary: Technician: Jody Freitas

Date of Sampling: March 11, 2020

Total Number of Samples:

Samples Analyzed At: SanAir Technologies Laboratory, Inc.

AIHA LPAT Certification#: 162952

Samples were collected in a random manner and submitted via chain of custody to the analytical laboratory and analyzed by EPA Method SW846/3050B/7000B. MassDPH and Federal HUD guidelines consider paint containing lead concentrations greater than or equal to 0.5% by weight (5,000 ppm) to be lead-based paint (LBP). Laboratory Analytical Data Sheets are attached and provide details about each sample collected.

Remarks and Limitations:

Analysis showed that three paint samples collected from the subject areas were determined to be
above the threshold for LBP. The sample locations are the "Brown on Floor", and "Yellow in
Interior" and "White on Exterior". While only three samples were above the threshold for LBP,
all samples had a detectable level of lead. Any detectable amount of lead requires that OSHA
guidelines be followed while impacting these paints.

Should you have any questions or need additional information, please contact our office at (781) 251-0040. Thank you for the opportunity to provide you with our services.

Sincerely,

FLI Environmental, Inc.

Matter Schriber

Matthew Schreiber Project Manager



The Identification Specialists

Analysis Report prepared for FLI Environmental, Inc.

Report Date: 3/20/2020

Project Name: South Franklin Congregational

Project #: 20-1311 SanAir ID#: 20012778



1551 Oakbridge Dr. Suite B | Powhatan, Virginia 23139-8061 888.895.1177 | 804.897.1177 | fax: 804.897.0070 | IAQ@SanAir.com | SanAir.com



SanAir ID Number 20012778 FINAL REPORT 3/20/2020 9:54:56 AM

Name: FLI Environmental, Inc. Address: 69 Bridge Street

Dedham, MA 02026

Phone: 781-251-0040

Project Number: 20-1311

P.O. Number:

Project Name: South Franklin Congregational

Collected Date: 3/11/2020

Received Date: 3/17/2020 9:50:00 AM

Dear Jody Freitas,

We at SanAir would like to thank you for the work you recently submitted. The 5 sample(s) were received on Tuesday, March 17, 2020 via FedEx. The final report(s) is enclosed for the following sample(s): 1, 2, 3, 4, 5.

These results only pertain to this job and should not be used in the interpretation of any other job. This report is only complete in its entirety. Refer to the listing below of the pages included in a complete final report.

Sincerely,

Abisola Kasali

Metals Laboratory Director SanAir Technologies Laboratory

Final Report Includes:

- Cover Letter
- Analysis on Test Family AA
- Disclaimers and Additional Information

Sample conditions:

- 5 samples in Good condition.



SanAir ID Number 20012778 FINAL REPORT 3/20/2020 9:54:56 AM

Name: FLI Environmental, Inc. Address: 69 Bridge Street

Dedham, MA 02026

Phone: 781-251-0040

Project Number: 20-1311

P.O. Number:

Project Name: South Franklin Congregational

Collected Date: 3/11/2020

Received Date: 3/17/2020 9:50:00 AM

Analyst: Ortega, David

Test Method: SW846/M3050B/7000B

Lead Paint Analysis

			,			
PAINT		μg Pb	Sample Size	Calculated	Sample	Sample
Sample	Description	In Sample	(grams)	RL	Results	Results
20012778 - 1	1	< 10	0.1019	98.1	<98.1	<0.010 %
	White On Interior				μg/g (ppm)	By Weight
20012778 - 2	2	513	0.0576	173.6	8902	0.890 %
	Brown On Floor				μg/g (ppm)	By Weight
20012778 - 3	3	76	0.1105	90.5	690.7	0.069 %
	Grey On Floor				μg/g (ppm)	By Weight
20012778 - 4	4	26050	0.1102	90.7	236300	23.630 %
	Yellow On Interior				μg/g (ppm)	By Weight
20012778 - 5	5	7613	0.104	96.2	73200	7.320 %
	White On Exterior				μg/g (ppm)	By Weight

Method Reporting Limit <10 μg/0.1 g paint

Sample 5 matrix spike failed

Signature:

Date:

3/18/2020

Reviewed:

Date:



Name: FLI Environmental, Inc.
Address: 69 Bridge Street
Dedham, MA 02026

Phone: 781-251-0040

SanAir ID Number 20012778 FINAL REPORT 3/20/2020 9:54:56 AM

Project Number: 20-1311

P.O. Number:

Project Name: South Franklin Congregational

Collected Date: 3/11/2020

Received Date: 3/17/2020 9:50:00 AM

Disclaimer

SanAir Technologies Laboratory, Inc. participates in the Environmental Lead Accreditation Program (ELAP) administered by AIHA-LAP, LLC (Lab ID162952). Refer to our accreditation certificate or www.aihaaccreditedlabs.org for an up to date list of the Fields of Testing for which we are accredited. SanAir also participates in the State of New York's DOH-ELAP (Lab Id 11983), and has met the EPA's NLLAP program standards. This report does not constitute endorsement by AIHA-LAP, LLC and/or any other U.S. governmental agencies; and may not be accredited by every local, state or federal regulatory agency.

This report is the sole property of the client named on the SanAir Technologies Laboratory chain-of-custody (COC). Neither results nor reports will be discussed with or released to any third party without our client's written permission. Final reports cannot be reproduced, except in full, without written authorization from SanAir Technologies Laboratory, Inc. The information provided in this report applies only to the samples submitted and is relevant only for the date, time, and location of sampling. SanAir is not responsible for sample collection or interpretation made by others. SanAir assumes no responsibility for information provided by the client on the COC such as project number, project name, collection dates, po number, special instructions, samples collected by, sample numbers, sample identifications, sample type, selected analysis type, flow rate, total volume or area, and start stop times that may affect the validity of the results in this report. SanAir Technologies Laboratory, Inc only assures the precision and accuracy of the data it generates and assumes no responsibility for errors or biasing that occur during collection prior to SanAir's receipt of the sample(s). SanAir's Method Detection Limits (MDL) and Reporting Limits (RL) have been derived using various materials meeting each accrediting agencies' standards. All quality control results are acceptable unless otherwise noted. Results are not corrected for blanks.

Lead Exposure Limits

Paint

0.5% by weigh HUD definition of lead based paint 1.0 mg/cm^2 5000 ppm

Revision Date 1/29/2020



1551 Oakbridge Dr STE B Powhatan, VA 23139 804.897.1177 / 888.895.1177 Fax 804.897.0070 sanair.com

Metals & Lead **Chain of Custody**

Form 70, Revision 9, 01/19/2017

SanAir	ID	Numbe
--------	----	-------

20012778

Company: FLI	Environm	ental, Ind) .		Project #: 20	-1311				Phone #: 7	81-251-0	0040	
Address: 69 B	ridge St.				Project Name:	South Franklin	Congi	rega	tional	Phone #:			
City, St., Zip: D	edham, M	IA 0202	6		Date Collected: 3/11/2020			Fax #: 78	Fax #: 781-251-0401				
Samples Collecte	_{ed By:} Jody	Freitas						Email:					
Account #: 2799										Email: jfreitas@flienv.com			
M	latrix Typ	es		Meta	als Analysis	s Types							
☐ Air (ug/m³))			Total Cor	centration of L	ead 🖺					entration of	metals (please	
☐ Wipe (ug/fi	t²)			Total Cor	centration of R	CRA 8 Metals □			list me	etals):			
□ Paint □	Soil □Bulk	(ug/g or pp	m)	TCLP for	Lead □								
☐ Other:	*			TCLP for	RCRA 8 Meta	ls 🗆							
Turn A		S	ame Da	ay 🗆	1	Day □		2 days □			3 I	Days 🗐	
Tin	ne 		tandard	l (5 day)	□ Ful	ll TCLP (10d)							
	- a												
Sample#	Collect Bate &			Sample	Identificatio	n/Location	Klow Rate		Start Time	Stop Time	Volume (L) Area (Sq ft		
1	3/11/202	0 12:30		V	Vhite on Inte	erior		NA		NA	NA	NA	
2	3/11/202	0 12:30		E	Brown on Fl	oor		NA		NA	NA	NA	
3	3/11/202	0 12:30			Grey on Flo	or		NA		NA	NA	NA	
4	3/11/202	0 12:30		Y	ellow on Inte	erior		NA		NA	NA	NA	
5	3/11/202	0 12:30		V	hite on Exte	erior		NA		NA	NA	NA	
Special Instr	uctions												
n.u/ · ·	. J.V.	D-4		T	F:	Dacateral !			D.	ı to	-	Гime	
Relinquishe	ea oy	Date		L	Γime	Received by			₁ Da	ite		imie	

If no technician is provided, then the primary contact of your account will be selected. Unless scheduled, the turnaround time for all samples received after 3 pm will begin at 8 am the next business morning. Weekend or holiday work must be scheduled ahead of time and is charged at 150% of the Rush TAT rate. There is a minimum charge of \$100 for weekend work. A courier charge will be applied for same day and one-day turnaround times for offsite work. SanAir covers Standard Overnight FedEx shipping. Shipments billed to SanAir with a faster shipping rate will result in additional charges. Page ___ of ___

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Peer Review / Schematic Estimate

South Franklin Congregational Meeting House

Preservation/Viability Project

Franklin, MA

PM&C LLC 20 Downer Ave, Suite 5 Hingham, MA 02043 (T) 781-740-8007 (F) 781-740-1012 $\label{eq:prepared for:} Prepared for:$

LLB Architects

September 30, 2020



Franklin, MA

Preservation/Viability Project

Peer Review / Schematic Estimate

MAIN CONSTRUCTION COST SUMMARY

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION 1				
	Oct-21			
RENOVATE EXISTING TOWN HALL		1,965	\$339.87	\$667,850
HAZARDOUS MATERIALS ABATEMENT/PEST WASTE				\$25,000
${\tt GRADING/LANDSCAPE/HARDSCAPE\ REWORK\ \&\ REPAI}$	RS			\$7,500
SUB-TOTAL		1,965	\$356.41	\$700,350
DESIGN AND PRICING CONTINGENCY	15.0%			\$105,053
ESCALATION	4.00%			\$28,014
SUB-TOTAL		1,965	\$424.13	\$833,417
GENERAL CONDITIONS/GR's	15.00%			\$125,013
BOND	1.15%			\$9,584
INSURANCE GL/PL	1.85%			\$15,418
PERMIT				Waived
OVERHEAD + FEE	10.00%			\$98,343
TOTAL OF ALL CONSTRUCTION	Oct-21	1,965	\$550.52	\$1,081,775



Franklin, MA

Preservation/Viability Project

Peer Review / Schematic Estimate

OPTION 2

	Oct-21			
RENOVATE EXISTING TOWN HALL		1,965	\$317.41	\$623,712
HAZARDOUS MATERIALS ABATEMENT/PEST WASTE				\$25,000
GRADING/LANDSCAPE/HARDSCAPE REWORK & REPAIRS				\$7,500
SUB-TOTAL		1,965	\$333.95	\$656,212
DESIGN AND PRICING CONTINGENCY	15.0%			\$98,432
ESCALATION	4.00%			\$26,248
SUB-TOTAL		1,965	\$397.40	\$780,892
GENERAL CONDITIONS/GR's	15.00%			\$117,134
BOND	1.15%			\$8,980
INSURANCE GL/PL	1.85%			\$14,447
PERMIT				Waived
OVERHEAD + FEE	10.00%			\$92,145
TOTAL OF ALL CONSTRUCTION	Oct-21	1,965	\$515.83	\$1,013,598



Franklin, MA

Preservation/Viability Project

Peer Review / Schematic Estimate

This Peer Review/Schematic Design cost estimate was produced from the report dated July 31st, 2020 prepared by LLB Architects and their design team. Design and engineering changes occurring subsequent to the issue of these documents and value engineering have not been incorporated in this estimate.

This estimate includes all direct construction costs, general contractors overhead, fee and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be public bidding to general contractors, sub-contractors, open specifications for materials and manufacturers.

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

ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

Land acquisition, feasibility, and financing costs

All professional fees and insurance

Site or existing conditions surveys investigations costs, including to determine

subsoil conditions

All Furnishings, Fixtures and Equipment

Items identified in the design as Not In Contract (NIC)

Items identified in the design as by others

Owner supplied and/or installed items as indicated in the estimate

Utility company back charges, including work required off-site

Work to City streets and sidewalks, (except as noted in this estimate)

Construction contingency





Franklin, MA

Preservation/Viability Project

Peer Review / Schematic Estimate

CONSTRUCTION CO			VIAI	
	OPTIO	N 1	OPTIO.	N 2
ENOVATIONS				
DIV. 2 EXISTING CONDITIONS		\$65,713		\$63,428
024000 Demolition		, .		
025000 Selective Demolition	\$65,713		\$63,428	
025100 Hazardous Abatement				
DIV. 3 CONCRETE		\$24,071		\$20,179
033000 Cast-in-Place Concrete	\$24,071		\$20,179	
DIV. 4 MASONRY		\$7,000		
040002 Unit Masonry	\$7,000			
DIV. 5 METALS		\$14,948		\$14,456
054000 Cold Form Metal Framing				
055000 Metal Fabrications	\$14,948		\$14,456	
DIV. 6 WOODS & PLASTICS		\$88,393		\$72,738
060312 Historic Wood Repair	\$19,686	,,,,,	\$19,436	., ,, 9
061000 Rough Carpentry	\$57,332		\$41,077	
064100 Architectural Woodwork	\$11,375		\$12,225	
DIV. 7 THERMAL & MOISTURE PROTECTION		\$62,216		\$60,851
070001 Waterproofing, Damp proofing and	\$5,539		\$4,112	
070002 Roofing and Flashing	\$55,864		\$55,864	
072100 Thermal Insulation	\$313		\$375	
078400 Fire stopping	\$500		\$500	
DIV. 8 DOORS & WINDOWS		\$27,195		\$23,095
081416 Flush Wood Doors	\$5,545		\$4,645	
083100 Access Doors and Frames	\$2,250		\$2,250	
085200 Wood Windows	\$10,500		\$9,500	
087100 Door Hardware	\$8,900		\$6,700	
089000 Louvers				
DIV. 9 FINISHES		\$121,592		\$119,438
090002 Tiling	\$30,006		\$28,806	
090007 Painting	\$40,892		\$41,558	
091230 Plaster Patching and Repair	\$15,720		\$15,720	
092900 Gypsum Board Assemblies	\$16,958		\$14,858	
096560 Wood Flooring	\$14,500		\$14,500	
096810 Carpet	\$3,516		\$3,996	
DIV 10 SPECIALTIES		\$3,183		\$3,183
101400 Signage	\$983		\$983	
102800 Toilet Accessories	\$1,700		\$1,700	
104400 Fire Protection Specialties	\$500		\$500	





Franklin, MA

Preservation/Viability Project

Peer Review / Schematic Estimate

CONSTRUCTION COST SUMMARY IN CSI FORMAT

OPTION 1 OPTION 2

RENOVATIONS

122100 Window Shades

123553 Casework

124810 Entrance Floor Mats

DIV. 21 FIRE SUPPRESSION

210000 Fire Protection

DIV. 22 PLUMBING		\$36,278		\$36,278
220000 Plumbing	\$36,278		\$36,278	
DIV. 23 HVAC		\$111,178		\$103,928
230000 HVAC	\$111,178		\$103,928	
DIV. 26 ELECTRICAL		\$77,758		\$78,683
260000 Electrical	\$77,758		\$78,683	
DIV. 31 EARTHWORK		\$8,325		\$7,455
312000 Earthwork	\$8,325		\$7,455	
DIV. 32 EXTERIOR IMPROVEMENTS				
320000 Paving				
323000 Site Improvements				

329200 Landscaping

DIV. 33 UTILITIES 20,000 20,000

331000 Water Utilities

333000 Sanitary Sewerage Utilities \$15,000

334000 Storm Drainage Utilities

335000 Gas services \$5,000

SUBTOTAL DIRECT (TRADE) COST \$667,850 \$623,712

\$15,000

\$5,000



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

ON 1						
GROSS F	LOOR AREA CALCULATION					
	First Floor			1,465		
	Mezzanine			500		
	TOTAL GROSS FLOOR AREA (GFA)				1,965 sf	
02 - EXIS	STING CONDITIONS					
025000	SELECTIVE DEMOLITION					
	<u>Exterior</u>					
	Create new opening - exterior wall	1	ea	1,500.00	1,500	
	Remove/Salvage granite tread - north portico				w/ masonry	
	Strip portico deck finishes	238	sf	7.50	1,785	
	Remove existing handrail	1	ls	350.00	350	
	Expose existing structure to tie in ramp and stair landing	2	loc	500.00	1,000	
	Selective removal of wood siding - assumes 5%	119	sf	15.00	1,785	
	Remove existing roof asphalt roof, gutters and drip edge	4,450	sf	4.00	17,800	
	Remove/Prep for roofing/flashings at cupola	1	ls	1,500.00	1,500	
	Structural					
	Shore/Remove timber posts in crawl space - P1 & P2	7	ea	1,750.00	12,250	
	Create floor access openings for post replacement w/ temp railings				ough carpentry	
	Shore/Remove wood girder	1	ea	1,500.00	1,500	
	Remove existing access door	1	ea	350.00	350	
	Interior					
	Demo and remove existing door, frame and threshold	2	ea	200.00	400	
	Remove, salvage and store existing historic trim for reinstallation	1	ls	750.00	750	
	Demo and remove stairs	1	ls	4,500.00	4,500	
	Gut existing bathroom	50	sf	25.00	1,250	
	Demolition of existing walls	1	ls	350.00	350	
	Remove existing pews	28	ea	350.00	9,800	
	Miscellaneous demolition/protection/shoring		_			
		1,965	gsf	2.00	3,930	
	Remove cut and capped MEP equipment, fixtures & fittings SUBTOTAL	1,965	gsf	2.50	4,913	65,713
	HAZARDOUS ABATEMENT					
025100						
	Abatment of hazardous materials			on exec	cutive summary	
	SUBTOTAL					-
TOTAL -	DEMOLITION					
03 - CON	CRETE					
033000	CAST IN PLACE CONCRETE					
	Column Footings; 2'x2'X1' deep - posts					
	Footing, form/place/finish	7	ea	750.00	5,250	
	Concrete pump	1	ls	1,500.00	1,500	
	Slab on grade		,			
	Patch slab ar areas in crawl space	7	loc	500.00	3,500	
	Strip Footing - ramp					
	Formwork	80	sf	18.00	1,440	
	Re-bar	150	lbs.	1.20	180	
	Concrete material	3	cy	140.00	420	
	Placing concrete	3	cy	200.00	600	
	Foundation Walls - ramp					
	Formwork	240	sf	20.00	4,800	
	Re-bar	720	lbs	1.20	864	



GFA UNIT EST'D SUB TOTAL CODE DESCRIPTION QTY UNIT COST TOTAL OPTION 1 Concrete material, dowel into existing wall 5 $\mathbf{c}\mathbf{y}$ 125.00 625 62 Placing concrete 5 cy 200.00 1,000 63 64 Strip Footing - stair/landing 65 Formwork 18.00 32 576 Re-bar lbs. 50 60 1.20 Concrete material cy 140.00 140 Placing concrete 1 200.00 200 Foundation Walls - stair landing Formwork 96 20.00 1,920 288 Re-bar lbs 1.20 346 Concrete material, dowel into existing wall 2 cy 125.00 250 Placing concrete 200.00 400 SUBTOTAL 24,071 TOTAL - CONCRETE \$24,071 04 - MASONRY Exterior Remove/Salvage/Reset granite treads - north portico lf 200.00 7,000 35 SUBTOTAL 7,000 TOTAL - MASONRY \$7,000 05 - METALS METAL FABRICATIONS 055000 New tube steel posts/plates - crawl space ea 1,500.00 10,500 Ships ladder ls 1,500.00 1,500 Miscellaneous metals - HVAC unit/ramp/stairs gsf 1,965 2,948 1.50 SUBTOTAL 14,948 TOTAL - METALS \$14,948 06 - WOOD, PLASTICS AND COMPOSITES 100 HISTORIC WOOD REPAIR 060312 Wood clapboard siding including corner boards 119 sf 34.00 4,046 103 Wood window trim repair - exterior ea 250.00 2,250 New door trim replication - exterior ea 650.00 650 Wood fascia/soffit trim 158 lf 30.00 4,740 Miscellaneous cupola/column/trim repair/prep for paint ls 8,000.00 8,000 SUBTOTAL 19,686 ROUGH CARPENTRY 061000 Exterior - Ramp & Stairs Ramp & landing framing & wood decking sf 40.00 7,000 175 112 Stair framing & wood decking at landing 32 sf 50.00 1,600 113 Stair treads/risers 12 lf 125.00 1,500 Ramp & Stair railings lf **52** 200.00 10,400 115 Ramp & Stair handrails - wall mounted lf 75.00 2,550 Exterior - Portico Minor framing/New decking to adjust floor elevation sf 238 27.50 6,545 118 New wood tread & riser 35 lf 100.00 3,500 Exterior - Façade Back-up/Sheathing replacement/repair at siding 1 ls 1,500.00 1,500 Back-up/Sheathing replacement/repair at cupola 500.00 500

30-Sep-20



	CSI CODE	DESCRIPTION	ON	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
			D21	QII	ONII	0081	1031	IOIAL	COS1
	OPTIO	N 1							
122			Create door opening	1	loc	500.00	500		
123			Reset/adjust door sill at portico	1	loc	250.00	250		
124 125			Floor Infills / Access Hatch						
126			Infill existing access hatch to crawl space	1	loc	750.00	750		
127			Create/Frame new opening for access hatch to crawl space	1	loc	750.00	750		
128			Create/Frame new opening for access hatch to mechanical space	1	ls	750.00	750		
129			Create floor access openings for post replacement w/ temp railings	1	ls	2,500.00	2,500		
130			Structural		_				
131			Replace/Repair existing wood girder	1	ls	1,750.00	1,750		
133			Repairs are bowing mezzanine wall Minor framing a mezzanine for new mechanical unit	1	ls	2,000.00	2,000		
134			Wall Framing	1	ls	1,500.00	1,500		
135			New wall framing	25	lf	24.00	600		
136			Create new door opening - interior wall	-J 1	ls	500.00	500		
137			Miscellaneous blocking, sill plate,, boards etc.	1	ls	500.00	500		
138			Roofing						
139			Remove and replace roof sheathing - 25% replacement	1,113	sf	8.00	8,904		
140			Miscellaneous interiors						
141			Wood blocking at interiors	1,965	gsf	0.50	983		
142			SUBTOTAL					57,332	
143									
144		064020	ARCHITECTURAL WOODWORK						
145			Finish Carpentry						
146			Wood base at new walls	25	lf	25.00	625		
147			Wainscot/Chair rail - new walls	88	sf	50.00	4,400		
148			New door casings - exterior	1	loc	300.00	300		
149			New single door casings - interior	2	loc	500.00	1,000		
150			New double door casings - interior	1	loc	550.00	550		
152			Repairs at existing window sills/aprons/casings	9	loc	500.00	4,500		
153			Stairs No work required						
154			Casework						
155			No work required						
156			SUBTOTAL					11,375	
157			SOBIOTAL					11,3/3	
158		TOTAL -	WOOD, PLASTICS AND COMPOSITES						\$88,393
159	!								
160 161	ı		NAME AND MOVEMENT DE DESCRIPTION						
162		07 - THE	RMAL AND MOISTURE PROTECTION						
163		070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
164		0/0001	Exterior						
165			Air barrier/flashing at existing windows	q	ea	150.00	1,350		
166			Air barrier/flashing at exterior new doors	1	ea	250.00	250		
167			Air barrier/flashing at exterior wall repairs	1	ls	500.00	500		
168			Miscellaneous sealants throughout building	1,965	gsf	0.75	1,474		
169			Interior	-,,,-0	0	5.73	->/		
170			Miscellaneous sealants throughout building	1,965	gsf	1.00	1,965		
171			SUBTOTAL	-,900	901	1.00	1,900	5,539	
172			5021011E					3,339	
173		070002	ROOFING AND FLASHING						
174			Sloped roof						
175			New architectural asphalt roof including ice and water shield	4,450	sf	9.00	40,050		
176			Asphalt shingles - vertical face at the cupola	72	sf	12.00	864		
177			3/4" Plywood sheathing				rough carpentry		
178			6" Rigid insulation			assur	ned not required		
179			Miscellaneous Roofing						
180			Roof to wall flashing at cupola	24	lf	25.00	600		



30-Sep-20 GFA 1,965

PMC - Project Management Cost

	vation/Viabi							
CSI CODE	DESCRIPTI	ON	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
OPTIO	ON 1							
		Miscellaneous flashings	4,450	sf	1.00	4,450		
		Gutters	90	lf	70.00	6,300		
		Downspouts	60	lf	60.00	3,600		
		SUBTOTAL				0,	55,864	
	072100	THERMAL INSULATION						
		Interior						
		Batt insulation ar interior walls	250	sf	1.25	313		
		SUBTOTAL					313	
	078400	FIRESTOPPING						
		Fire stopping - allow	1	ls	500.00	500		
		SUBTOTAL					500	
	TOTAL -	THERMAL AND MOISTURE PROTECTION						\$62,
	08 - OPE	NINGS						
	081416	FLUSH WOOD DOORS						
		<u>Frames</u>						
		Single frame - exterior	1	ea	250.00	250		
		Single frame	2	ea	185.00	370		
		Double frame	1	ea	225.00	225		
		<u>Door</u>						
		Solid core wood door - single - exterior	1	ea	850.00	850		
		Solid core wood door - single	2	ea	500.00	1,000		
		Solid core wood door - double	1	ea	1,000.00	1,000		
		<u>Door Installation</u>						
		Solid core wood door - exterior	1	ea	250.00	250		
		Solid core wood door - exterior modify/new sills	2	ea	450.00	900		
		Solid core wood door - interior	4	ea	175.00	700		
		SUBTOTAL					5,545	
	083100	ACCESS DOORS AND FRAMES						
		Access doors - floor	1	ls	1,250.00	1,250		
		Access doors - ceiling	1	ls	1,000.00	1,000		
		SUBTOTAL					2,250	
	085200	WINDOWS						
		Repair windows - new glazing putty/sealants & replace broken panes	9	ea	1,000.00	9,000		
		Replace/Repair jambs/stops/sash where deteriorated	1	ls	1,500.00	1,500		
		SUBTOTAL					10,500	
	087100	DOOR HARDWARE						
		Interior door hardware	4	leaf	800.00	3,200		
		Exterior door hardware - new	1	leaf	1,500.00	1,500		
		Exterior door sill - existing door HC	1	ea	3,500.00	3,500		
		Exterior door sill - existing door	2	ea	350.00	700		
		SUBTOTAL					8,900	
	- 00	CLACCAND CLAZING						
	088000	GLASS AND GLAZING						
		No work required						
		SUBTOTAL					-	
	080000	FIXED LOUVERS						
	089000	FIXED LOUVERS No work required						
	089000	FIXED LOUVERS No work required SUBTOTAL						

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S Franklin Meeting House SD estimate 9.30.20 FINAL



CODE .	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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09 - FINISHES						
090002 TILE						
Ceramic tile	loor	145	sf	30.00	4,350	
Tile base		154	lf	24.00	3,696	
Ceramic wall	tile	616	sf	35.00	21,560	
Stone thresh	old	2	ea	200.00	400	
SUBTOTAL					·	30,006
						0-7
090003 ACT						
No work req	uired					
SUBTOTAL						_
090005 RESILIENT	FLOORS					
No work req						
SUBTOTAL						_
JODIOIII.						
090007 PAINTING						
Exterior pair	ating					
	and paint siding & trim	2,370	sf	6.50	15,405	
	and paint siding & trim - cupola	1	ls	3,500.00	3,500	
	existing portico and columns	238	sf	20.00	4,760	
	t new portico wood deck	238	sf	4.00	952	
Paint doors &	-	12	ea	250.00	3,000	
Interior pain	ting				· ·	
Paint to new	*	500	sf	0.95	475	
Prime and pa	int existing walls to remain including scraping,	1,965	gsf	3.50	6,878	
	removal of mastics, misc. fasteners, tacks, staples etc.	-				
	scot, base & trim		_			
Prep & paint	S	1,965	sf	1.50	2,948	
	paint doors and frames	6	lvs	250.00	1,500	
	ting/touch-up	1,965	gsf	0.75	1,474	0
SUBTOTAL						40,892
DI ACCEED I	AATOMING AND BERAIR					
	PATCHING AND REPAIR					
	g walls to remain	1,965	gsf	3.00	5,895	
SUBTOTAL	g veneer plaster ceiling	1,965	sf	5.00	9,825	15 500
SUBIUIAL						15,720
092900 GWB						
092900 GWB Interior Part	tions					
			a.C		0	
	er on wood stud wall	500	sf	6.50	3,250	
	ring existing walls	1,965	gsf	3.50	6,878	
Ceilings						
	iling - moisture resistant at restrooms	145	sf	20.00	2,900	
	existing ceilings and soffits	1,965	gsf	2.00	3,930	
SUBTOTAL						16,958
096560 WOOD FLO	OORING					
Wood flooring	g - repair & paint existing	900	sf	15.00	13,500	
Wood floorir	g - repair & paint existing platform stairs	4	ea	250.00	1,000	
SUBTOTAL						14,500
096810 TILE CARP	ETING					
	vestibule	146	sf	12.00	1,752	
New carpet -		146 147	sf sf	12.00 12.00	1,752 1,764	



CSI CODE DESCRIPTION

South Franklin Congregational Meeting House Franklin, MA Preservation/Viability Project GFA TOTAL COST UNIT COST EST'D COST

QTY

UNIT

30-Sep-20

SUB TOTAL

1,965

TOTAL - FINISHES					
10 - SPECIALTIES					
101100 VISUAL DISPLAY BOARDS					
Marker boards/ tack boards				FF+E	
SUBTOTAL					-
101400 SIGNAGE					
Signage - allowance for code signage only	1,965	gsf	0.50	983	
SUBTOTAL	-,,,-0	8	5.35	7-0	983
102800 TOILET ACCESSORIES					
Single user bathrooms	2	ea	850.00	1,700	
SUBTOTAL	-	ea	050.00	1,700	1,700
SOBIOTAL					1,/00
104400 FIRE PROTECTION SPECIALTIES					
Fire extinguisher cabinets	1	ls	500.00	500	
SUBTOTAL					500
TOTAL - SPECIALTIES					
11 - EQUIPMENT					
No Moult In This Costion					
No Work In This Section					
SUBTOTAL					-
TOTAL - EQUIPMENT					
12 - FURNISHINGS					
122410 WINDOW TREATMENT					
Window treatment allowance				FF+E	
SUBTOTAL					-
123000 FIXED CASEWORK					
123000 FIXED CASEWORK Included w Div.06					
					-
Included w Div.06 SUBTOTAL					-
Included w Div.06 SUBTOTAL 124810 ENTRANCE MATS			assumed	not required	-
Included w Div.06 SUBTOTAL			assumed	not required	-
Included w Div.06 SUBTOTAL 124810 ENTRANCE MATS Walk-off carpet tile in vestibules SUBTOTAL			assumed	not required	-
Included w Div.06 SUBTOTAL 124810 ENTRANCE MATS Walk-off carpet tile in vestibules			assumed	not required	-
Included w Div.06 SUBTOTAL 124810 ENTRANCE MATS Walk-off carpet tile in vestibules SUBTOTAL TOTAL - FURNISHINGS			assumed	not required	-
Included w Div.06 SUBTOTAL 124810 ENTRANCE MATS Walk-off carpet tile in vestibules SUBTOTAL TOTAL - FURNISHINGS			assumed	not required	-
Included w Div.06 SUBTOTAL 124810 ENTRANCE MATS Walk-off carpet tile in vestibules SUBTOTAL TOTAL - FURNISHINGS			assumed	not required	-
Included w Div.06 SUBTOTAL 124810 ENTRANCE MATS Walk-off carpet tile in vestibules SUBTOTAL TOTAL - FURNISHINGS 14 - CONVEYING SYSTEMS			assumed	not required	-
Included w Div.06 SUBTOTAL 124810 ENTRANCE MATS Walk-off carpet tile in vestibules SUBTOTAL TOTAL - FURNISHINGS 14 - CONVEYING SYSTEMS No Work In This Section SUBTOTAL			assumed	not required	-
Included w Div.06 SUBTOTAL 124810 ENTRANCE MATS Walk-off carpet tile in vestibules SUBTOTAL TOTAL - FURNISHINGS 14 - CONVEYING SYSTEMS No Work In This Section			assumed	not required	-
Included w Div.06 SUBTOTAL 124810 ENTRANCE MATS Walk-off carpet tile in vestibules SUBTOTAL TOTAL - FURNISHINGS 14 - CONVEYING SYSTEMS No Work In This Section SUBTOTAL TOTAL - CONVEYING			assumed	not required	-
Included w Div.06 SUBTOTAL 124810 ENTRANCE MATS Walk-off carpet tile in vestibules SUBTOTAL TOTAL - FURNISHINGS 14 - CONVEYING SYSTEMS No Work In This Section SUBTOTAL			assumed	not required	-
Included w Div.06 SUBTOTAL 124810 ENTRANCE MATS Walk-off carpet tile in vestibules SUBTOTAL TOTAL - FURNISHINGS 14 - CONVEYING SYSTEMS No Work In This Section SUBTOTAL TOTAL - CONVEYING			assumed	not required	-



CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
		-					I

OPTION 1

419

Refrigerant Piping

L					
22 - PLUMBING					
220000 PLUMBING					
Equipment					
Electric water heater point of use	2	ea	1,750.00	3,500	
Water meter assembly				ETR	
Backflow preventer				ETR	
Mixing valve				ETR	
Floor drain			assumed	not required	
Hose bibb				ETR	
Plumbing Fixtures & Specialties					
Water closet	2	ea	1,400.00	2,800	
Lavatory	2	ea	1,100.00	2,200	
Janitor's sink			assumed	not required	
Domestic Water					
Domestic water pipe with fittings & hangers	100	lf	40.00	4,000	
Valves and accessories	1	ls	500.00	500	
Sanitary Waste And Vent Pipe					
UG San waste pipe with fittings & hangers - modification	1	ls	5,000.00	5,000	
AG San waste pipe with fittings & hangers	40	lf	60.00	2,400	
Gas Piping					
Gas piping	1,965	sf	3.50	6,878	
Pipe Insulation					
Domestic water pipe insulation	100	lf	10.00	1,000	
Miscellaneous					
Demolition	1	ls	3,500.00	3,500	
Coordination	1	ls	2,500.00	2,500	
Coring, sleeves & fire stopping	1	ls	1,500.00	1,500	
Commissioning support			assumed	not required	
Testing and sterilization	1	ls	500.00	500	
Fees & permits				waived	
SUBTOTAL					36,278
TOTAL - PLUMBING					
23 - HVAC					
- 0					
230000 HVAC					
Equipment					
AHU - 12.5 ton	1	ea	15,000.00	15,000	
ACCU - 12.5 ton	1	ea	12,000.00	12,000	
Furnace	1	ea	4,500.00	4,500	
VAV indoor unit, vestibule	1	ea	2,500.00	2,500	
VAV indoor unit, main open space	1	ea	4,000.00	4,000	
Electric baseboard heat	4	ea	850.00	3,400	
<u>Air distribution</u>					
ERV 1000 CFM	1	ea	10,000.00	10,000	
Bathroom exhaust	2	ea	50.00	100	
Sheet metal & Accessories					
Galvanized steel ductwork	1,474	lb	15.00	22,110	
Duct insulation	884	sf	5.00	4,420	
RGD's	8	ea	125.00	1,000	
Louvers			-	ETR	
Sheet metal accessories	1	ls	2,500.00	2,500	
Piping	_		,		
					



	ervation/viability Project					GFA	1,905
CSI CODE	E DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
OPT	TION 1			· '		■	
20	Refrigerant piping, preinsulated lineset	100	lf	35.00	3,500		
21	Condensate Drain Piping						
22	Condensate drain piping with fittings & hangers	50	lf	24.00	1,200		
23	Piping Insulation						
24	Piping insulation	50	lf	10.00	500		
25	Automatic Temperature Controls						
26	Automatic Temperature Controls	1	ls	10,000.00	10,000		
27	<u>Balancing</u>						
28	System testing & balancing	1,965	gsf	1.50	2,948		
29	Miscellaneous						
30	Demolition	1	ls	1,500.00	1,500		
31	Coordination	1	ls	1,000.00	1,000		
32	Coring, sleeves & fire stopping	1	ls	2,500.00	2,500		
33	Equipment start-up and inspection	1	ls	1,500.00	1,500		
34	Rigging & equipment rental	1	ls	5,000.00	5,000		
35	SUBTOTAL					111,178	
36							
37	TOTAL - HVAC						\$111,178
38 39							
40	26 - ELECTRICAL						
41	20 EEECTRONE						
42	260000 ELECTRICAL						
43	GEAR & DISTRIBUTION						
44	Normal Power						
45	Meter socket	1	ea	350.00	350		
1 6	200A 120/208V Main switchboard	1	ea	5,000.00	5,000		
47	200A 120/208V lighting panelboard	1	ea	2,500.00	2,500		
48	200A 120/208V panelboard	1	ea	2,350.00	2,350		
49	200A feed	80	lf	50.00	4,000		
50	Service grounding	1	ls	2,500.00	2,500		
51	Emergency Power						
52	Generator/ATS/Exhaust/Fuel supply			assum	ed not required		
53	Equipment Wiring						
54	AHU/ACCU/ERV/VAV - feeds/connections	5	ea	1,000.00	5,000		
55	Furnace - feeds/connections	1	ea	1,500.00	1,500		
56	Electric baseboard heat - feeds/connections	4	ea	925.00	3,700		
57	Point of use water heater - feeds/connections	2	ea	925.00	1,850		
58	Bathroom exhaust - feeds/connections	2	ea	500.00	1,000		
59	Miscellaneous feeds/connections	1	sf	560.00	560		
50	SUBTOTAL					30,310	
61							
62	LIGHTING & POWER						
63	<u>Lighting</u>			_			
64	Exit sign	5	ea	180.00	900		
65 66	New bathroom light fixtures	3	ea	250.00	750		
67	Chandelier - refurbrish	2	ea	1,500.00	3,000		
68	Wall sconce - refurbrish Exterior light fixtures - refurbrish	8 2	ea ea	750.00 500.00	6,000 1,000		
69	Exterior light fixtures Exterior light fixtures	2		350.00	700		
70	Allow for additional fixtures	1,965	ea gsf	2.00	3,930		
71	Emergency ballasts	1,905	ls	1,500.00	1,500		
72	Lighting Control	-	10	1,500.00	1,500		
73	Lighting control/switching	1,965	gsf	2.00	3,930		
74	Lighting Circuitry	,,-0	0	0	3,730		
75	Device plate/boxes/cabling	1,965	gsf	2.50	4,913		
76	Branch Devices	,,-0	0	50	4,7-0		
77	Duplex receptacle	15	ea	24.50	368		
78	GFI duplex receptacle	2	ea	39.50	79		
		-					
79	Allow for additional devices	1,965	gsf	0.50	983		



SI ODE	DESCRIPTION	ON	QTY		COST	COST		COST
		-	¥*	UNIT			TOTAL	
PTIC	UN 1	Device plate/hoves/cabling	106=	act	0.00	= 90=		
		Device plate/boxes/cabling SUBTOTAL	1,965	gsf	3.00	5,895	00.049	
		SUDIOIAL					33,948	
		COMMUNICATION & SECURITY SYSTEMS						
		Telecommunications Telecommunication material				ETD		
		Telecommunication system				ETR		
		Fire Alarm Existing system				ETR		
		Existing system CO detector - add to exisitng system		ls	E00.00			
		AV device - add to existing system	1	ea	500.00 500.00	500 2,000		
		Visual device - add to existing system	4 2	ea	500.00	1,000		
		Audio Visual	_	ca	500.00	1,000		
		AV equipment/Projection screens				By Others		
		Security System				by Others		
		Security System				ETR		
		SUBTOTAL				EIK	2.500	
		CONTORNE					3,500	
		OTHER ELECTRICAL SYSTEMS						
		Miscellaneous						
		Demolition and make safe	,	ls	2 500 00	9 500		
			1		2,500.00	2,500		
		Temp power and lights	1	ls le	5,000.00	5,000		
		Coordination Fees & Permits	1	ls	2,500.00	2,500 waived		
		rees & Permits SUBTOTAL				waived	10.000	
		OUDIGIAL					10,000	
		T FOMBYOUT						Δ
	TOTAL -E	SLECTRICAL						\$77,7
	TOTAL -E	ELECTRICAL						\$77,7
								\$77,7
	TOTAL -F	EARTHWORK						\$77,7
	31	EARTHWORK						\$ 77,7
	31	EARTHWORK EARTH WORK						\$ 77,7
	31	EARTHWORK EXTERIOR Ramp	20	CV.	20.00	000		\$ 77,7
	31	EARTHWORK Exterior Ramp Excavation	30	cy	30.00	900		₹ 77,7
	31	EARTHWORK Exterior Ramp Excavation Store on site	30	cy	25.00	750		\$77,7
	31	EARTHWORK EXTH WORK Exterior Ramp Excavation Store on site Backfill with existing material	30 22	cy cy	25.00 15.00	750 330		\$77,7
	31	EARTHWORK Exterior Ramp Excavation Store on site	30	cy	25.00	750		\$77,7
	31	EARTHWORK EXTH WORK Exterior Ramp Excavation Store on site Backfill with existing material	30 22	cy cy	25.00 15.00	750 330		\$77,7
	31	EARTHWORK EXTH WORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12"	30 22	cy cy	25.00 15.00	750 330		\$ 77;;
	31	EARTHWORK EXTH WORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair	30 22 3	cy cy cy	25.00 15.00 75.00	750 330 225		\$77,7
	31	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation	30 22 3	cy cy cy	25.00 15.00 75.00	750 330 225		\$77.5
	31	EARTHWORK EXECTION CAMP EXECUTION CONTROL CO	30 22 3 12	cy cy cy cy	25.00 15.00 75.00 30.00 25.00	750 330 225 360 300		\$ 77,7
	31	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12"	30 22 3 12 12 9	cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00	750 330 225 360 300 135		*77,7
	31	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12"	30 22 3 12 12 9	cy cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00 15.00 75.00	750 330 225 360 300 135 75		*77,7
	31	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Basement Spread Footings Excavate & dispose onsite /prep for new footings	30 22 3 12 12 9	cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00	750 330 225 360 300 135		*77,7
	31	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12"	30 22 3 12 12 9	cy cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00 15.00 75.00	750 330 225 360 300 135 75	8,325	*77;7
	31 312000	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Basement Spread Footings Excavate & dispose onsite /prep for new footings	30 22 3 12 12 9	cy cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00 15.00 75.00	750 330 225 360 300 135 75	8,325	
	31 312000	EARTHWORK Exterior Ramp Exexavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Basement Spread Footings Excavate & dispose onsite / prep for new footings SUBTOTAL	30 22 3 12 12 9	cy cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00 15.00 75.00	750 330 225 360 300 135 75	8,325	
	31 312000	EARTHWORK Exterior Ramp Exexavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Basement Spread Footings Excavate & dispose onsite / prep for new footings SUBTOTAL	30 22 3 12 12 9	cy cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00 15.00 75.00	750 330 225 360 300 135 75	8,325	
	31 312000 TOTAL, I	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Basement Spread Footings Excavate & dispose onsite /prep for new footings SUBTOTAL DIVISION 31 - EARTHWORK	30 22 3 12 12 9	cy cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00 15.00 75.00	750 330 225 360 300 135 75	8,325	
	31 312000 TOTAL, L	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Basement Spread Footings Excavate & dispose onsite /prep for new footings SUBTOTAL DIVISION 31 - EARTHWORK	30 22 3 12 12 9	cy cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00 15.00 75.00	750 330 225 360 300 135 75	8,325	
	31 312000 TOTAL, L	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Basement Spread Footings Excavate & dispose onsite /prep for new footings SUBTOTAL DIVISION 31 - EARTHWORK	30 22 3 12 12 9	cy cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00 15.00 75.00	750 330 225 360 300 135 75	8,325	
	31 312000 TOTAL, L 33 333000	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Basement Spread Footings Excavate & dispose onsite /prep for new footings SUBTOTAL DIVISION 31 - EARTHWORK UTILITIES SANITARY/SEWERAGE UTILITY New sanitary connection to Washington Street	30 22 3 12 12 9 1	cy cy cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00 15.00 75.00	750 330 225 360 300 135 75 5,250	8,325	
	31 312000 TOTAL, L 33 333000	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Basement Spread Footings Excavate & dispose onsite /prep for new footings SUBTOTAL DIVISION 31 - EARTHWORK UTILITIES SANITARY/SEWERAGE UTILITY New sanitary connection to Washington Street GAS SERVICES	30 22 3 12 12 9 1	cy cy cy cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00 15.00 75.00	750 330 225 360 300 135 75 5,250	8,325	
	31 312000 TOTAL, L 33 333000	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Basement Spread Footings Excavate & dispose onsite /prep for new footings SUBTOTAL DIVISION 31 - EARTHWORK UTILITIES SANITARY/SEWERAGE UTILITY New sanitary connection to Washington Street	30 22 3 12 12 9 1	cy cy cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00 15.00 75.00	750 330 225 360 300 135 75 5,250	8,325	
	31 312000 312000 333000 335000	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Basement Spread Footings Excavate & dispose onsite /prep for new footings SUBTOTAL DIVISION 31 - EARTHWORK UTILITIES SANITARY/SEWERAGE UTILITY New sanitary connection to Washington Street GAS SERVICES	30 22 3 12 12 9 1	cy cy cy cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00 15.00 75.00	750 330 225 360 300 135 75 5,250	8,325	
	31 312000 312000 333000 335000	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Basement Spread Footings Excavate & dispose onsite / prep for new footings SUBTOTAL DIVISION 31 - EARTHWORK UTILITIES SANITARY/SEWERAGE UTILITY New sanitary connection to Washington Street GAS SERVICES Excavate/Backfill for new gas service provided by utlity company	30 22 3 12 12 9 1	cy cy cy cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00 15.00 750.00	750 330 225 360 300 135 75 5,250	8,325	\$77,7
	31 312000 312000 333000 335000	EARTHWORK Exterior Ramp Excavation Store on site Backfill with existing material Compacted granular fill, 12" Exterior Stair Excavation Store on site Backfill with existing material Compacted granular fill, 12" Basement Spread Footings Excavate & dispose onsite /prep for new footings SUBTOTAL DIVISION 31 - EARTHWORK UTILITIES SANITARY/SEWERAGE UTILITY New sanitary connection to Washington Street GAS SERVICES Excavate/Backfill for new gas service provided by utlity company ELECTRICAL UTILITY	30 22 3 12 12 9 1	cy cy cy cy cy cy cy cy	25.00 15.00 75.00 30.00 25.00 15.00 750.00	750 330 225 360 300 135 75 5,250	8,325	



30-Sep-20

GFA

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CS	SI			UNIT	EST'D	SUB	TOTAL
CC	DE DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
						1	1

OPTION 1

OPTION 1 TRADE SUBTOTAL \$667,850



CSI			UNIT	EST'D	SUB	TOTAL
ODE DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

OPTION 2

GROSS F	LOOR AREA CALCULATION					
	First Floor			1,465		
	Mezzanine			500		
	TOTAL GROSS FLOOR AREA (GFA)				1,965 sf	
02 - EXIS	STING CONDITIONS					
025000	SELECTIVE DEMOLITION					
	Exterior					
	Create new opening - exterior wall	1	ea	1,500.00	1,500	
	Remove existing handrail	1	ls	350.00	350	
	Expose existing structure to tie in ramp and landing	1	loc	500.00	500	
	Selective removal of wood siding - assumes 5%	119	sf	15.00	1,785	
	Remove existing roof asphalt roof, gutters and drip edge	4,450	sf	4.00	17,800	
	Remove/Prep for roofing/flashings at cupola	1	ls	1,500.00	1,500	
	<u>Structural</u>					
	Shore/Remove timber posts in crawl space - P1 & P2	7	ea	1,750.00	12,250	
	Create floor access openings for post replacement w/ temp railings			w/ rou	igh carpentry	
	Shore/Remove wood girder	1	ea	1,500.00	1,500	
	Remove existing access door	1	ea	350.00	350	
	<u>Interior</u>					
	Demo and remove existing door, frame and threshold	2	ea	200.00	400	
	Remove, salvage and store existing historic trim for reinstallation	1	ls	750.00	750	
	Demo and remove stairs	1	ls	4,500.00	4,500	
	Gut existing bathroom	50	sf	25.00	1,250	
	Demolition of existing walls	1	ls	350.00	350	
	Remove existing pews	28	ea	350.00	9,800	
	Miscellaneous demolition/protection/shoring	1,965	gsf	2.00	3,930	
	Remove cut and capped MEP equipment, fixtures & fittings	1,965	gsf	2.50	4,913	
	SUBTOTAL	_	-			63,428
025100	HAZARDOUS ABATEMENT					
	Abatment of hazardous materials			on execut	tive summary	
	SUBTOTAL					-

o3 - CONCRETE

43							
44	033000	CAST IN PLACE CONCRETE					
45		Column Footings; 2'x2'X1' deep - posts					
46		Footing, form/place/finish	7	ea	750.00	5,250	
47		Concrete pump	1	ls	1,500.00	1,500	
48		Slab on grade					
49		Patch slab ar areas in crawl space	7	loc	500.00	3,500	
50							
51		Strip Footing - ramp					
52		Formwork	80	sf	18.00	1,440	
53		Re-bar	150	lbs.	1.20	180	
54		Concrete material	3	cy	140.00	420	
55		Placing concrete	3	cy	200.00	600	
56		Foundation Walls - ramp					
57		Formwork	240	sf	20.00	4,800	
58		Re-bar	720	lbs	1.20	864	
59		Concrete material, dowel into existing wall	5	cy	125.00	625	
60		Placing concrete	5	cv	200.00	1,000	



30-Sep-20 GFA 1,965

20,179

CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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OPTION 2

64

SUBTOTAL

TOTAL - CONCRETE \$20,179

04 - MASONRY

Exterior

SUBTOTAL

Remove/Salvage/Reset granite treads - north portico

assumed not required

TOTAL - MASONRY

05 - METALS

TOTAL - METALS

060312

METAL FABRICATIONS

New tube steel posts/plates - crawl space Ships ladder

Wood clapboard siding including corner boards

Create new door opening - interior wall

Miscellaneous blocking, sill plate,, boards etc.

Miscellaneous metals - HVAC unit/ramp

ea 1,500.00 1 ls 1,500.00 1,965

sf 119

ls

500.00

500.00

1.25

34.00

1,500 2,456

10,500

4,046

720

500

500

SUBTOTAL

14,456

19,436

\$14,456

06 - WOOD, PLASTICS AND COMPOSITES

HISTORIC WOOD REPAIR

Wood window trim repair - exterior 8 ea 250.00 2,000 New door trim replication - exterior 1 ea 650.00 650 Wood fascia/soffit trim 158 lf 30.00 4,740 Miscellaneous cupola/column/trim repair/prep for paint ls 8,000.00 8,000 1 SUBTOTAL. ROUGH CARPENTRY Exterior - Ramp Ramp & landing framing & wood decking 175 sf 40.00 7,000 Ramp railings lf 200.00 8,000 40 Ramp handrails - wall mounted 30 lf 75.00 2,250 Exterior - Façade Back-up/Sheathing replacement/repair at siding ls 1 1,500.00 1,500 Back-up/Sheathing replacement/repair at cupola 1 ls 500.00 500 Create door opening 500.00 500 Floor Infills / Access Hatch Infill existing access hatch to crawl space loc 750.00 750 Create/Frame new opening for access hatch to crawl space 1 loc 750.00 750 Create/Frame new opening for access hatch to mechanical space 1 ls 750.00 750 Create floor access openings for post replacement w/ temp railings 2,500.00 2,500 Structural Replace/Repair existing wood girder 1 ls 1,750.00 1,750 Minor framing a mezzanine for new mechanical unit ls 1,500.00 1,500 Wall Framing 1f New wall framing 30 24.00 720 Create new door opening - interior wall ls 500.00 500 Miscellaneous blocking, sill plate,, boards etc. ls 1 500.00 500 Wall Framing New wall framing 30 lf 24.00

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101

103

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107

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114

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120



CSI CODE DESCRIP	TION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
OPTION 2		•	•			•	
	Roofing						
	Remove and replace roof sheathing - 25% replacement	1,113	sf	8.00	8,904		
	Miscellaneous interiors						
	Wood blocking at interiors	1,965	gsf	0.50	983		
	SUBTOTAL					41,077	
064020	ARCHITECTURAL WOODWORK						
	Finish Carpentry						
	Wood base at new walls	55	lf	25.00	1,375		
	Wainscot/Chair rail - new walls	88	sf	50.00	4,400		
	New door casings - exterior	1	loc	300.00	300		
	New single door casings - interior	2	loc	500.00	1,000		
	New double door casings - interior	1	loc	550.00	550		
	New door cased openings - inerior	1	loc	600.00	600		
	Repairs at existing window sills/aprons/casings	8	loc	500.00	4,000		
	Stairs						
	No work required						
	Casework						
	No work required						
	SUBTOTAL					12,225	
TOTAL	- WOOD, PLASTICS AND COMPOSITES						\$72,7
07 - TH	ERMAL AND MOISTURE PROTECTION						

070001	WATERPROOFING, DAMPPROOFING AND CAULKING					
0/0001	Exterior					
	Air barrier/flashing at existing windows	8	ea	150.00	1,200	
	Air barrier/flashing at new doors	1	ea	250.00	250	
	Air barrier/flashing at exterior wall repairs	1	ls	500.00	500	
	Miscellaneous sealants throughout building	1,965	gsf	0.75	1,474	
	Interior	1,903	801	0./5	1,4/4	
	Miscellaneous sealants throughout building			0.05	688	
		1,965	gsf	0.35	688	
	SUBTOTAL					4,112
070002	ROOFING AND FLASHING					
,	Sloped roof					
	New architectural asphalt roof including ice and water shield	4,450	sf	9.00	40,050	
	Asphalt shingles - vertical face at the cupola	72	sf	12.00	864	
	3/4" Plywood sheathing			w/ ro	igh carpentry	
	6" Rigid insulation			assumed	l not required	
	Miscellaneous Roofing					
	Roof to wall flashing at cupola	24	lf	25.00	600	
	Miscellaneous flashings	4,450	sf	1.00	4,450	
	Gutters	90	lf	70.00	6,300	
	Downspouts	60	lf	60.00	3,600	
	SUBTOTAL					55,864
072100	THERMAL INSULATION					
	<u>Interior</u>					
	Batt insulation ar interior walls	300	sf	1.25	375	
	SUBTOTAL					375
078400	FIRESTOPPING/ FIREPROOFING					
	Fire stopping floors	1	ls	500.00	500	
	SUBTOTAL					500



30-Sep-20 GFA 1,965

CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
i							

08 - OPENINGS D81416 FLUSH WOOD DOORS Frames Single frame - exterior Single frame Double frame Door Solid core wood door - single - exterior Solid core wood door - single Solid core wood door - double Door Installation Solid core wood door - exterior Solid core wood door - exterior Solid core wood door - interior SUBTOTAL D83100 ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL D85200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated SUBTOTAL	1 2 1 2 1 2 1	ea ea ea ea ea	250.00 185.00 225.00 850.00 500.00 1,000.00	250 370 225 850	
PLUSH WOOD DOORS Frames Single frame - exterior Single frame Door Solid core wood door - single - exterior Solid core wood door - single Solid core wood door - double Door Installation Solid core wood door - exterior Solid core wood door - exterior Solid core wood door - interior Sultrotal. OR ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL OR STONE WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated	2 1 1 2 1	ea ea ea ea	185.00 225.00 850.00 500.00	370 225	
PLUSH WOOD DOORS Frames Single frame - exterior Single frame Door Solid core wood door - single - exterior Solid core wood door - single Solid core wood door - double Door Installation Solid core wood door - exterior Solid core wood door - exterior Solid core wood door - interior Sultrotal. OR ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL OR STONE WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated	2 1 1 2 1	ea ea ea ea	185.00 225.00 850.00 500.00	370 225	
Frames Single frame - exterior Single frame Double frame Door Solid core wood door - single - exterior Solid core wood door - single Solid core wood door - double Door Installation Solid core wood door - exterior Solid core wood door - exterior Solid core wood door - interior SUBTOTAL ORSIOO ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL ORSIOO WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated	2 1 1 2 1	ea ea ea ea	185.00 225.00 850.00 500.00	370 225	
Single frame - exterior Single frame Double frame Door Solid core wood door - single - exterior Solid core wood door - single Solid core wood door - double Door Installation Solid core wood door - exterior Solid core wood door - exterior Solid core wood door - interior SUBTOTAL ORSIOO ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL ORSIOO WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated	2 1 1 2 1	ea ea ea ea	185.00 225.00 850.00 500.00	370 225	
Single frame Double frame Door Solid core wood door - single - exterior Solid core wood door - single Solid core wood door - double Door Installation Solid core wood door - exterior Solid core wood door - exterior Solid core wood door - interior SUBTOTAL ORSIOO ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL ORSIOO WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated	2 1 1 2 1	ea ea ea ea	185.00 225.00 850.00 500.00	370 225	
Double frame Door Solid core wood door - single - exterior Solid core wood door - single Solid core wood door - double Door Installation Solid core wood door - exterior Solid core wood door - exterior Solid core wood door - interior SUBTOTAL O83100 ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL O85200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated	1 1 2 1	ea ea ea	225.00 850.00 500.00	225	
Solid core wood door - single - exterior Solid core wood door - single Solid core wood door - double Door Installation Solid core wood door - exterior Solid core wood door - exterior Solid core wood door - interior SUBTOTAL O83100 ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL O85200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated	1 2 1	ea ea ea	850.00 500.00		
Solid core wood door - single - exterior Solid core wood door - double Door Installation Solid core wood door - exterior Solid core wood door - exterior Solid core wood door - interior SUBTOTAL O83100 ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL O85200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated	2 1 1	ea ea	500.00	850	
Solid core wood door - single Solid core wood door - double Door Installation Solid core wood door - exterior Solid core wood door - interior SUBTOTAL D83100 ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL D85200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated	2 1 1	ea ea	500.00	850	
Solid core wood door - double Door Installation Solid core wood door - exterior Solid core wood door - interior SUBTOTAL 083100 ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL 085200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated	1	ea			
Door Installation Solid core wood door - exterior Solid core wood door - exterior Solid core wood door - interior SUBTOTAL O83100 ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL O85200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated	1		1,000.00	1,000	
Solid core wood door - exterior Solid core wood door - interior SUBTOTAL 083100 ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL 085200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated		ea		1,000	
Solid core wood door - interior SUBTOTAL 083100 ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL 085200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated		ea			
SUBTOTAL O83100 ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL O85200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated	4		250.00	250	
ACCESS DOORS AND FRAMES Access doors - floor Access doors - ceiling SUBTOTAL O85200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated		ea	175.00	700	
Access doors - floor Access doors - ceiling SUBTOTAL 085200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated					4,645
Access doors - floor Access doors - ceiling SUBTOTAL 085200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated					
SUBTOTAL 085200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated	1	ls	1,250.00	1,250	
SUBTOTAL 085200 WINDOWS Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated	1	ls	1,000.00	1,000	
Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated					2,250
Repair windows - new glazing putty/sealants & replace broken panes Replace/Repair jambs/stops/sash where deteriorated					
panes Replace/Repair jambs/stops/sash where deteriorated					
Replace/Repair jambs/stops/sash where deteriorated	8	ea	1,000.00	8,000	
	1	ls	1,500.00	1,500	
			,0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9,500
087100 DOOR HARDWARE					
Interior door hardware	4	leaf	800.00	3,200	
Exterior door hardware	1	leaf	3,500.00	3,500	
SUBTOTAL					6,700
088000 GLASS AND GLAZING					
No work required					
SUBTOTAL					_
089000 FIXED LOUVERS					
No work required					
SUBTOTAL					-
TOTAL - OPENINGS					
09 - FINISHES					
090002 TILE					
Ceramic tile floor	105	sf	30.00	3,150	
Tile base	154	lf -c	24.00	3,696	
Ceramic wall tile Stone threshold	616	sf	35.00	21,560	
SUBTOTAL	2	ea	200.00	400	28,806
SSDIOINE					20,000
090003 ACT					
No work required					
SUBTOTAL					



<u> </u>	I			<u> </u>	1		1	
0	PTION 2							
239		No work required						
240		SUBTOTAL					-	
241								
242	090005	RESILIENT FLOORS						
243		No work required						
244		SUBTOTAL					-	
245								
246	090007	PAINTING						
247	-,,	Exterior painting						
248		Scrape prime and paint siding & trim	2,370	sf	6.50	15,405		
249		Scrape prime and paint siding & trim - cupola	1	ls	3,500.00	3,500		
250		Prep & paint existing portico and columns	238	sf	20.00	4,760		
251		Prep & paint existing portico wood deck	238	sf	5.00	1,190		
252		Paint doors & windows	11	ea	250.00	2,750		
253		Interior painting		cu	230.00	2,750		
254		Paint to new walls	180	sf	0.95	171		
255		Prime and paint existing walls to remain including scraping,	1,965	gsf	4.00	7,860		
		cleaning and removal of mastics, misc. fasteners, tacks, staples etc includes wainscot, base $\&$ trim	,,,,,	0-	,,,,,	,,,,,,,		
256		Prep & paint ceilings	1,965	sf	1.50	2,948		
257		Prep & stain/paint doors and frames	6	lvs	250.00	1,500		
258		Interior painting/touch-up	1,965	gsf	0.75	1,474		
259		SUBTOTAL					41,558	
260								
261	091230	PLASTER PATCHING AND REPAIR						
262		Patch existing walls to remain	1,965	gsf	3.00	5,895		
263		Patch existing veneer plaster ceiling	1,965	sf	5.00	9,825		
264		SUBTOTAL					15,720	
265								
266	092900	GWB						
267		Interior Partitions						
268		GWB & plaster on wood stud wall	300	sf	6.50	1,950		
269		Patching/ furring existing walls	1,965	gsf	3.50	6,878		
270		Ceilings						
271		New GWB ceiling - moisture resistant at restrooms	105	sf	20.00	2,100		
272		Patch/Repair existing ceilings and soffits	1,965	gsf	2.00	3,930		
273		SUBTOTAL	,,,.0	0.		0,,,0	14,858	
274		505101III					14,050	
275	096560	WOOD FLOORING						
276	- ,-0	Wood flooring - repair & paint existing	900	sf	15.00	13,500		
			-					
277		Wood flooring - repair & paint existing platform stairs	4	ea	250.00	1,000		
278		SUBTOTAL					14,500	
279		THE CARPETING						
280	096810	TILE CARPETING						
281		New carpet - vestibule	186	sf	12.00	2,232		
282		New carpet - platform	147	sf	12.00	1,764		
283		SUBTOTAL					3,996	
284								
285	TOTAL -	FINISHES						\$119,438
286								
287								
288	10 - SPEC	HALITES						
289 290	101100	VISUAL DISPLAY BOARDS						
291	101100					FF+E		
292		Marker boards/ tack boards				rr+E		
293		SUBTOTAL					-	
293	10110	SIGNACE						
295	101400	Signage allowance for each signage only	106-	~~£	0.5-	- C-		
296		Signage - allowance for code signage only	1,965	gsf	0.50	983	20-	
		SUBTOTAL					983	
S Fran	nklin Meeting House SD es	stimate 9.30.20 FINAL Page 21					PMC - Project Mai	nagement Cost

SUB TOTAL



TOTAL - FIRE SUPPRESSION

22 - PLUMBING

220000 PLUMBING Equipment

Electric water heater point of use

Plumbing Fixtures & Specialties

Water meter assembly

Backflow preventer

Mixing valve

Floor drain

Hose bibb

Water closet

Janitor's sink

Lavatory

DESCRIPTION

30-Sep-20

TOTAL COST

1,965

GFA

SUB TOTAL

OPTION 2 298 102800 TOILET ACCESSORIES Single user bathrooms ea 850.00 1,700 300 SUBTOTAL 1,700 104400 FIRE PROTECTION SPECIALTIES 303 Fire extinguisher cabinets 500.00 500 SUBTOTAL 500 TOTAL - SPECIALTIES 306 \$3,183 308 11 - EQUIPMENT 310 311 No Work In This Section 312 SUBTOTAL 313 TOTAL - EQUIPMENT 314 316 317 12 - FURNISHINGS 319 122410 WINDOW TREATMENT FF+E Window treatment allowance SUBTOTAL 322 323 TOTAL - FURNISHINGS 325 14 - CONVEYING SYSTEMS 327 144000 ELEVATORS 329 No Work In This Section 330 ${\bf SUBTOTAL}$ TOTAL - CONVEYING 332 333 334 21 - FIRE SUPPRESSION 335 337 No Work In This Section 338 SUBTOTAL

S Franklin Meeting House SD estimate 9.30.20 FINAL Page 22 PMC - Project Management Cost

ea

2 ea 1,750.00

1,400.00

1,100.00

3,500

ETR

ETR

ETR

2,800

2,200

assumed not required

assumed not required

343

344

348

351

352

354

355



Prese	rvation/Viability Project					GFA	1,96
CODE	E DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
OPTI	ION 2			. "		<u>'</u>	
	<u>Domestic Water</u>						
	Domestic water pipe with fittings & hangers	100	lf	40.00	4,000		
	Valves and accessories	1	ls	500.00	500		
	Sanitary Waste And Vent Pipe						
	UG San waste pipe with fittings & hangers - modification	1	ls	5,000.00	5,000		
	AG San waste pipe with fittings & hangers	40	lf	60.00	2,400		
	Gas Piping						
	Gas piping	1,965	sf	3.50	6,878		
	Pipe Insulation						
	Domestic water pipe insulation	100	lf	10.00	1,000		
	Miscellaneous						
	Demolition	1	ls	3,500.00	3,500		
	Coordination & BIM	1	ls	2,500.00	2,500		
	Coring, sleeves & fire stopping	1	ls	1,500.00	1,500		
	Commissioning support	1	ls		ned not required		
	Testing and sterilization	1	ls	500.00	500		
	Fees & permits				waived		
	SUBTOTAL					36,278	
	TOTAL - PLUMBING						\$36,27
							,
	23 - HVAC						
	230000 HVAC						
	<u>Equipment</u>						
	AHU - 12.5 ton	1	ea	15,000.00	15,000		
	ACCU - 12.5 ton	1	ea	12,000.00	12,000		
	Furnace	1	ea	4,500.00	4,500		
	VAV indoor unit, vestibule	1	ea	2,500.00	2,500		
	VAV indoor unit, main open space	1	ea	4,000.00	4,000		
	Electric baseboard heat	5	ea	850.00	4,250		
	Air distribution						
	ERV 1000 CFM	1	ea	1,000.00	1,000		
	Bathroom exhaust	2	ea	500.00	1,000		
	Sheet metal & Accessories			ŭ			
	Galvanized steel ductwork	1,474	lb	15.00	22,110		
	Duct insulation	884	sf	5.00	4,420		
	RGD's	8	ea	125.00	1,000		
	Louvers			0	ETR		
	Sheet metal accessories	1	ls	2,500.00	2,500		
	Piping	_		_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,,,,,		
	Refrigerant Piping						
	Refrigerant piping, preinsulated lineset	100	lf	35.00	3,500		
	Condensate Drain Piping	100	-	33.00	3,330		
	Condensate drain piping with fittings & hangers	50	lf	24.00	1,200		
	Piping Insulation	90	11	24.00	1,200		
	Piping insulation	50	lf	10.00	E00		
	Automatic Temperature Controls	50	11	10.00	500		
	•		lc	10.000.00	10.000		
	Automatic Temperature Controls	1	ls	10,000.00	10,000		
	Balancing		- 6		-		
	System testing & balancing	1,965	gsf	1.50	2,948		
	Miscellaneous						
	Demolition	1	ls	1,500.00	1,500		
	Coordination	1	ls	1,000.00	1,000		
	Coring, sleeves & fire stopping	1	ls	2,500.00	2,500		
	Equipment start-up and inspection	1	ls	1,500.00	1,500		
	Rigging & equipment rental	1	ls	5,000.00	5,000		
	SUBTOTAL					103,928	

30-Sep-20

GFA



South Franklin Congregational Meeting House Franklin, MA Preservation/Viability Project 30-Sep-20 GFA CSI CODE DESCRIPTION SUB TOTAL

ION 2						
TOTAL - HVAC						\$103
TOTAL-TIVAC						\$103
26 - ELECTRICAL						
20 - ELECTRICAL						
260000 ELECTRICAL						
200000 ELECTRICAL						
GEAR & DISTRIBUTION						
Normal Power						
Meter socket	1	ea	350.00	350		
200A 120/208V Main switchboard	1	ea	5,000.00	5,000		
200A 120/208V lighting panelboard	1	ea	2,500.00	2,500		
200A 120/208V panelboard	1	ea	2,350.00	2,350		
200A feed	80	lf	50.00	4,000		
Service grounding	1	ls	2,500.00	2,500		
Emergency Power						
Generator/ATS/Exhaust/Fuel supply			assumed	l not required		
Equipment Wiring						
AHU/ACCU/ERV/VAV - feeds/connections	5	ea	1,000.00	5,000		
Furnace - feeds/connections	1	ea	1,500.00	1,500		
Electric baseboard heat - feeds/connections	5	ea	925.00	4,625		
Point of use water heater - feeds/connections Bathroom exhaust - feeds/connections	2	ea	925.00	1,850		
Miscellaneous feeds/connections	2 1	ea sf	500.00 560.00	1,000 560		
SUBTOTAL		31	500.00	500	31,235	
SOBIOTIE					31,233	
LIGHTING & POWER						
Lighting						
Exit sign	5	ea	180.00	900		
New bathroom light fixtures	3	ea	250.00	750		
Chandelier - refurbrish	2	ea	1,500.00	3,000		
Wall sconce - refurbrish	8	ea	750.00	6,000		
Exterior light fixtures - refurbrish	2	ea	500.00	1,000		
Exterior light fixtures	2	ea	350.00	700		
Allow for additional fixtures	1,965	gsf	2.00	3,930		
Emergency ballasts	1	ls	1,500.00	1,500		
<u>Lighting Control</u>						
Lighting control/switching	1,965	gsf	2.00	3,930		
<u>Lighting Circuitry</u>						
Device plate/boxes/cabling	1,965	gsf	2.50	4,913		
Branch Devices						
Duplex receptacle	15	ea	24.50	368		
GFI duplex receptacle	2	ea	39.50	79		
Allow for additional devices	1,965	gsf	0.50	983		
Branch Circuitry	4.64-		0.05	= 90=		
Device plate/boxes/cabling SUBTOTAL	1,965	gsf	3.00	5,895	00.049	
SUBTOTAL					33,948	
COMMUNICATION & SECURITY SYSTEMS						
Telecommunications						
Telecommunication system				ETR		
Fire Alarm				EIK		
Existing system				ETR		
CO detector - add to exisitng system	1	ls	500.00	500		
AV device - add to existing system	4	ea	500.00	2,000		
Visual device - add to existing system	4 2	ea	500.00	1,000		
Audio Visual	-		300.00	-,000		
AV equipment/Projection screens				By Others		
Security System				J - 3		
Security System				ETR		
SUBTOTAL					3,500	



ODE DESCRIPTI	*****	QTY	UNIT	COST	COST	TOTAL	COST
PTION 2			0.111	0001	0001	101.12	0001
	OTHER ELECTRICAL SYSTEMS						
	<u>Miscellaneous</u>						
	Demolition and make safe	1	ls	2,500.00	2,500		
	Temp power and lights	1	ls	5,000.00	5,000		
	Coordination	1	ls	2,500.00	2,500		
	Fees & Permits				waived		
	SUBTOTAL					10,000	
TOTAL -	ELECTRICAL						\$78,
31	EARTHWORK	Ī					
<u> </u>	EARTH WORK	<u>.</u> I					
312000	Exterior Ramp						
	Excavation	30	cy	30.00	900		
	Store on site	30	cy	25.00	750		
	Backfill with existing material	22	cy	15.00	330		
	Compacted granular fill, 12"	3	cy	75.00	225		
	Basement Spread Footings						
	Excavate & dispose onsite /prep for new footings	7	ea	750.00	5,250		
	SUBTOTAL					7,455	
TOTAL,	DIVISION 31 - EARTHWORK						\$7
33	UTILITIES						
- 33		l					
333000	SANITARY/SEWERAGE UTILITY						
	New sanitary connection to Washington Street	1	ls	15,000.00	15,000		
335000	GAS SERVICES						
	Excavate/Backfill for new gas service provided by utlity company	1	ls	5,000.00	5,000		
337000	ELECTRICAL UTILITY						
	New electrical service			•	overhead service		
	SUBTOTAL					20,000	
TOTAL,	DIVISION 33 - UTILITIES						\$20,
							\$623,

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V. Exhibits

TOWN OF F

SOUTH FRANKLIN CONGREGA

PROJECT NO.: 11 MAY 20

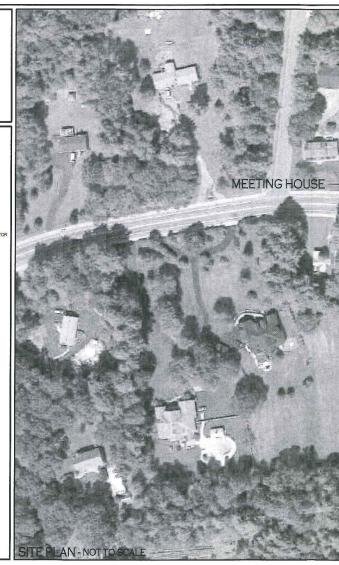
DRAWING LIST

ARCHITECTURAL

TITLE SHEET ITTLE SHEET
STING CONDITIONS PLAN: CRAWLSPACE
EXISTING CONDITIONS PLAN: GROUND FLOOR
EXISTING CONDITIONS PLAN: MEZZANINE
OPTION 1 DEMOLITION PLAN: GROUND FLOOR
OPTION 1 ACCESSIBILITY CONCERNS
OPTION 2 MEDITION PLAN: GROUND FLOOR
OPTION 2 CONCERNS EX1.2 D1.1 OPTION 1 A1.1 OPTION 1 D1.1 OPTION 2 A1.1 OPTION 2

ABBREVIATIONS

HECHANICAL, ELECTRICAL
8 FLUMBING
1-MINIAM
1-MISCELLANEOUS
1-MOSTURE RESISTANT
1-MISCELLANEOUS
1-MOSTURE RESISTANT
1-MICHANICAL
1-MICHA MIN. MISC, M.R. MTL. N/A N.LC. NOM. O.A.E O.C. O.C.V. O.F.I. O.F.G.C.I OPP
P.M.
P-R.
P-T.
PT.
PTD.
R.C.P.
RECYD
SCWD
S.S.
STRUCT.
T.M.E.
T.O.
U.N.O.
U.S.
VCB.
V.C.T.
V.H.I.
V.H.I.
V.H.I.
V.H.I.
W - EXISTING
- FLOOR DRAIN
- FINISH(FED)
- FLOOR
- FACE OF
- FIRE RATED
- FIRE RATED
- FIRE RATED
- GENERAL CONTRACTOR
- GENERAL CONTRACT - UNICESS NOTED OTHERWIS
- UNDERSIDE
- VINYL COVE BASE
- VINYL COMPOSITION TILE
- VERY HIGH IMPACT
- VERHEY IN FIELD GYP. GWB. H.C. H,M H,V.A.C. -GYPSUM WALL BOARD -HANDICAP -HOLLOW METAL -HEATING, VENTILATION, & AIR CONDITIONING -INSULATION -LINEAL FEET -MAXIMUM



RANKLIN

ATIONAL MEETING HOUSE

14124.99 015



ARCHITECT

CIVITECTS

ARCHITECTURE PLANNING + LANDSCAPE PROFESSIONAL CORPORATION

245 MAIN STREET, WAREHAM. MA 02571 T.508.291.0050 F.508-291-0153

MEP ENGINEER

RDK ENGINEERS

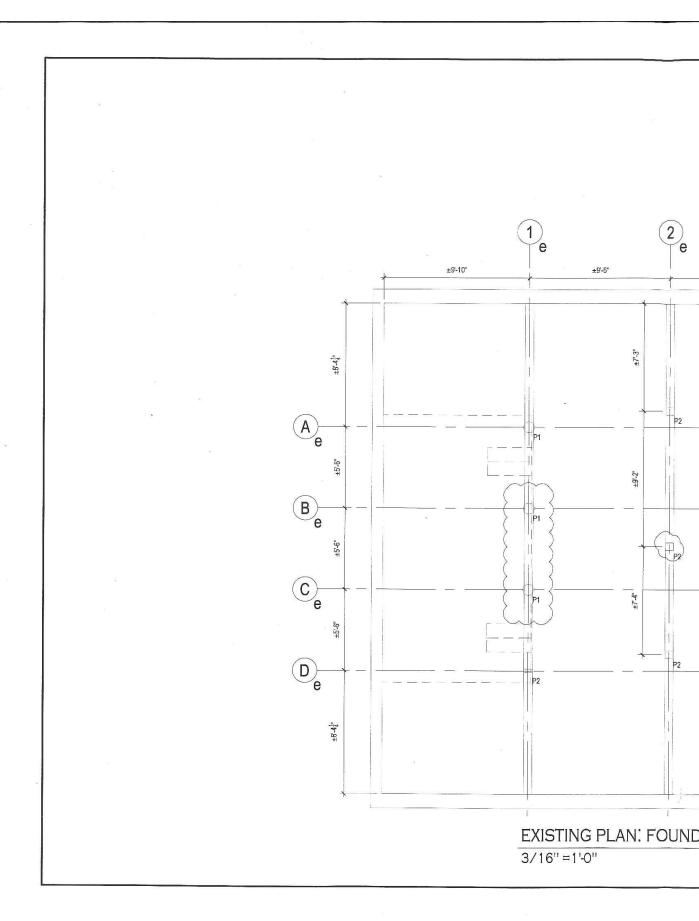
200 BRICKSTONE SQUARE ANDOVER, MA 01810 TEL: (978) 296-6200 FAX: (978) 475-5768 WWW.RDKENGINEERS.COM

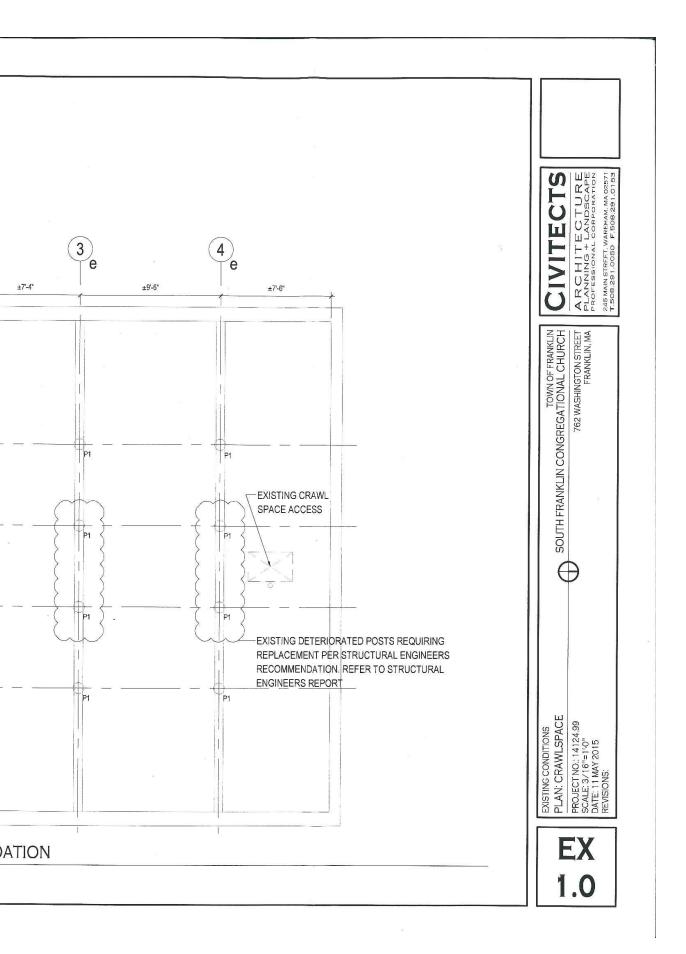
STRUCTURAL ENGINEER

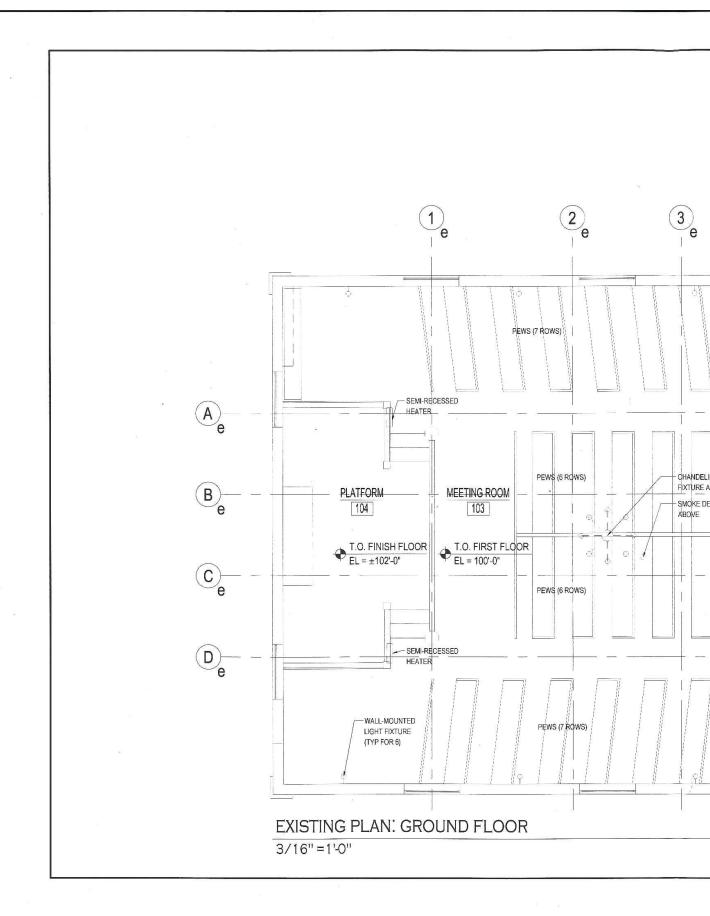
DM BERG CONSULTANTS

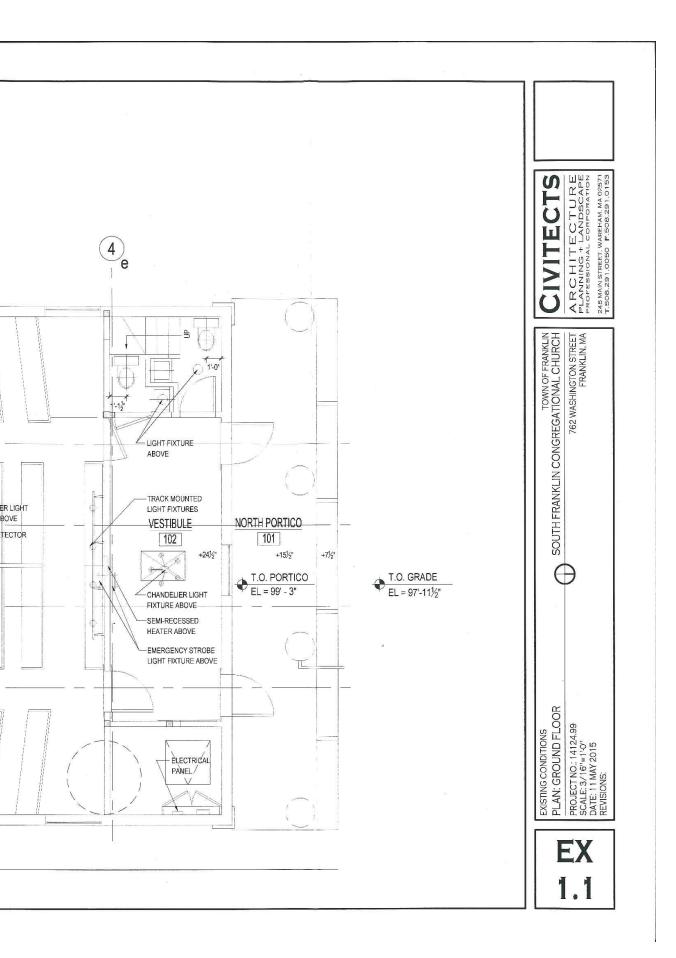
100 CRESCENT ROAD, SUITE 1A NEEDHAM, MA 02494-1457 TEL: (781) 444-5156 FAX: (781) 444-5157 WWW.DMBERG.COM

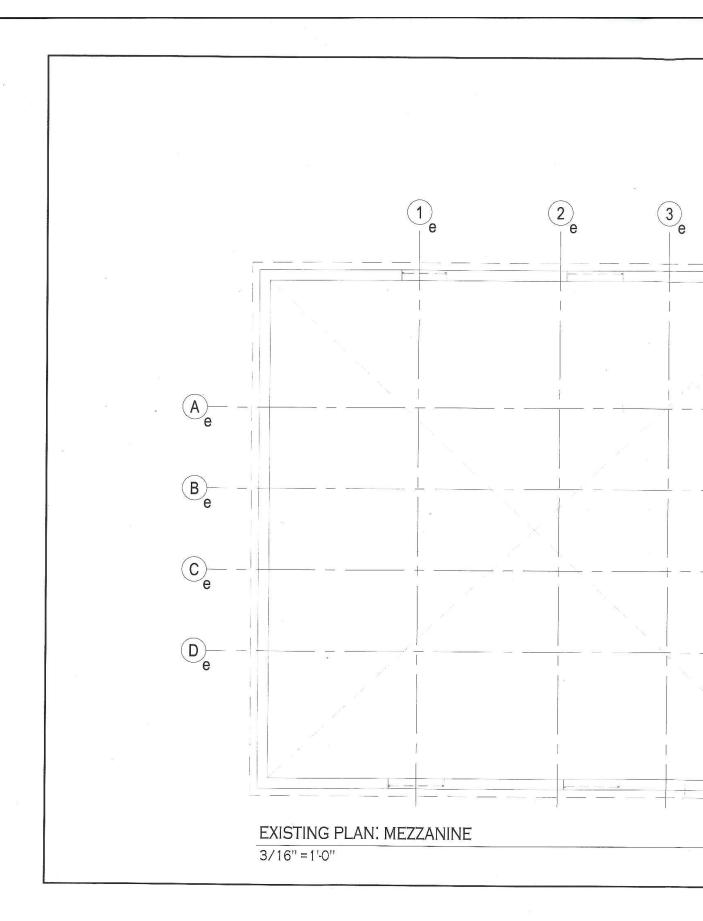
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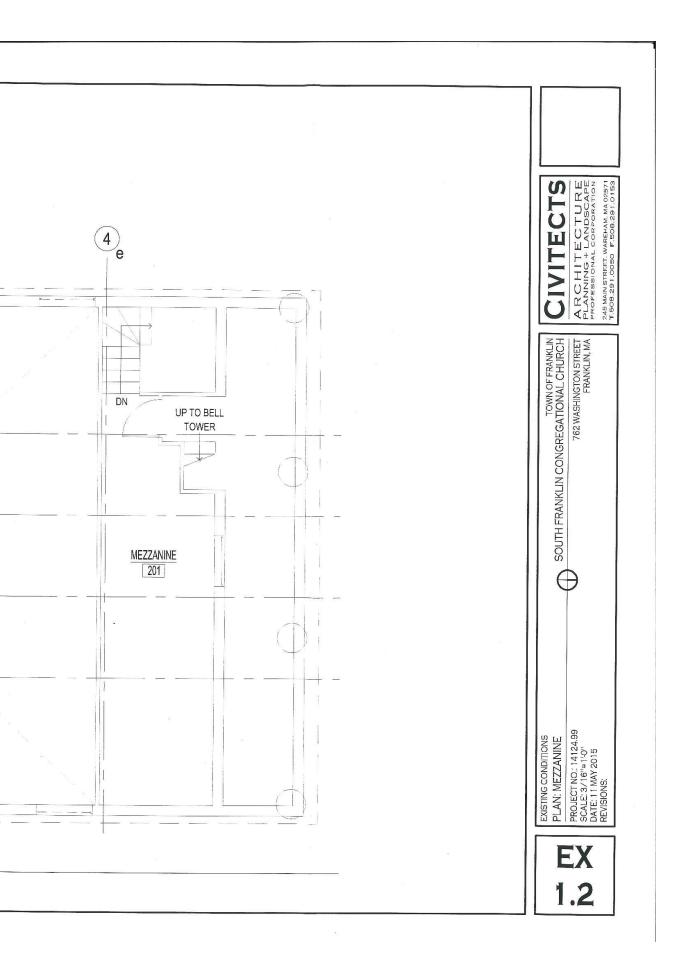


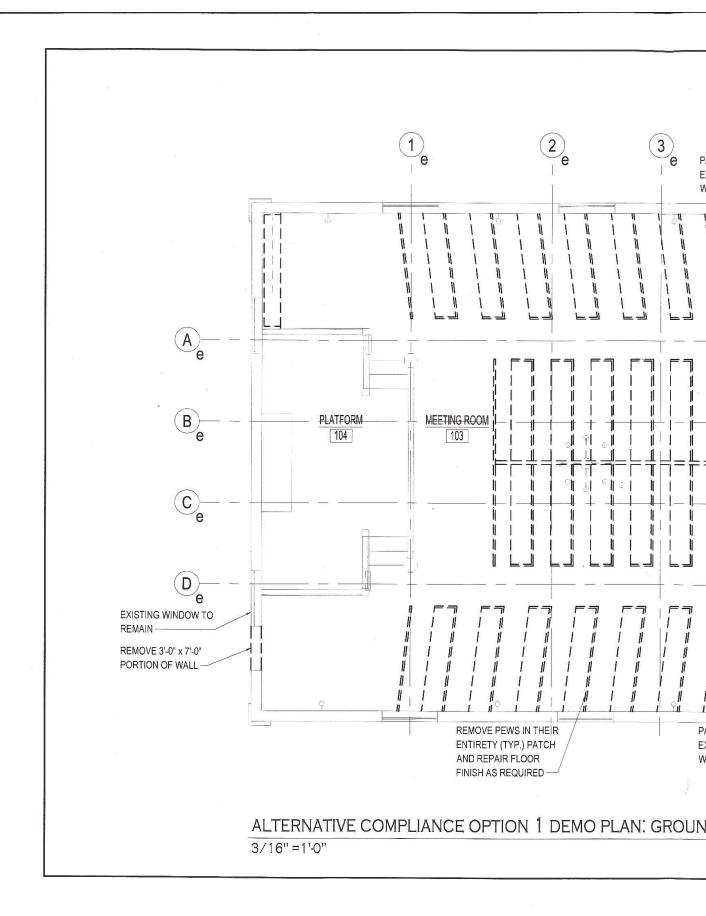


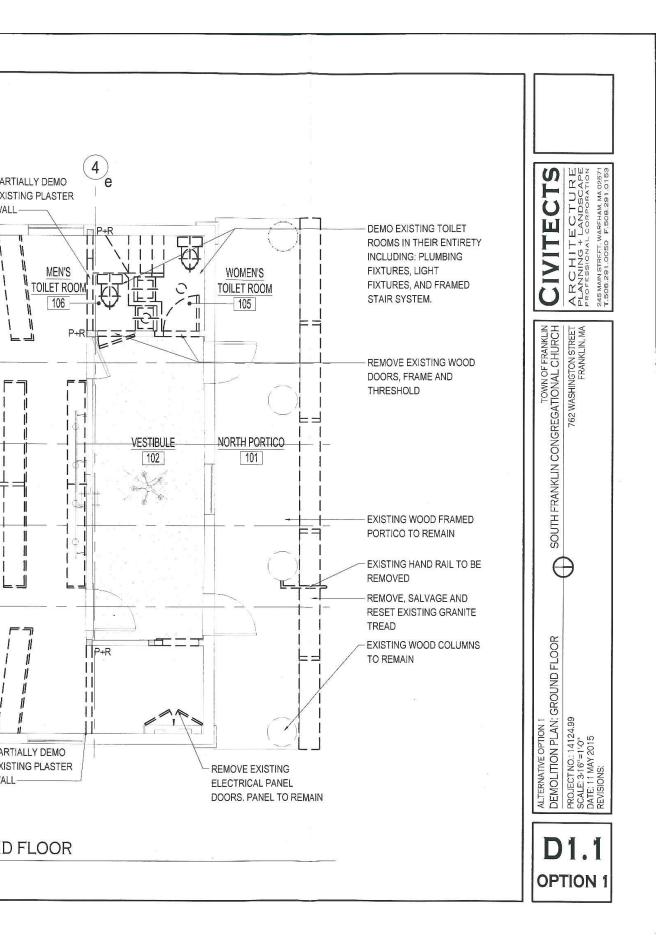


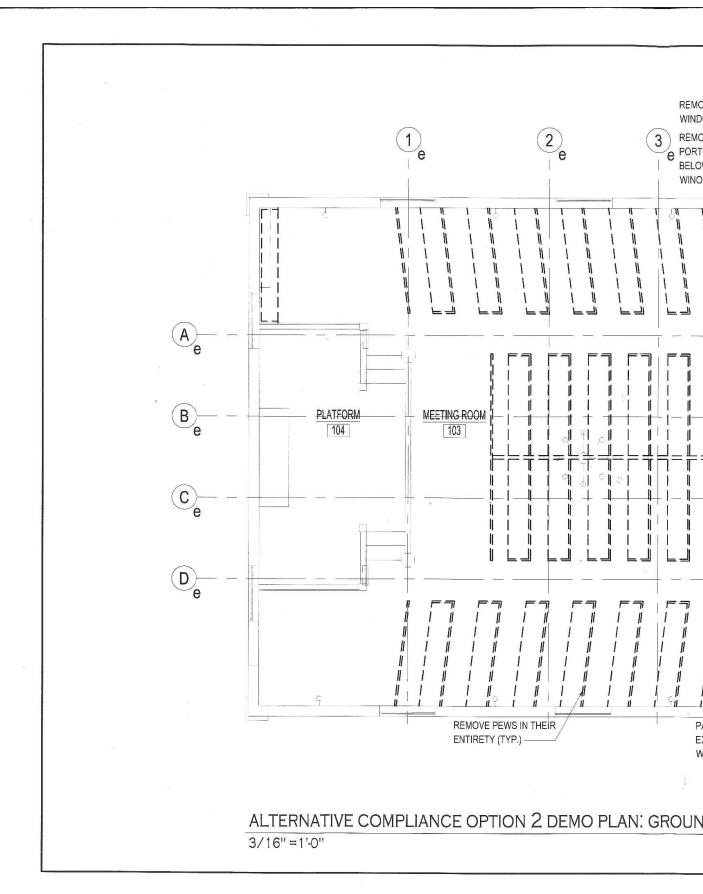


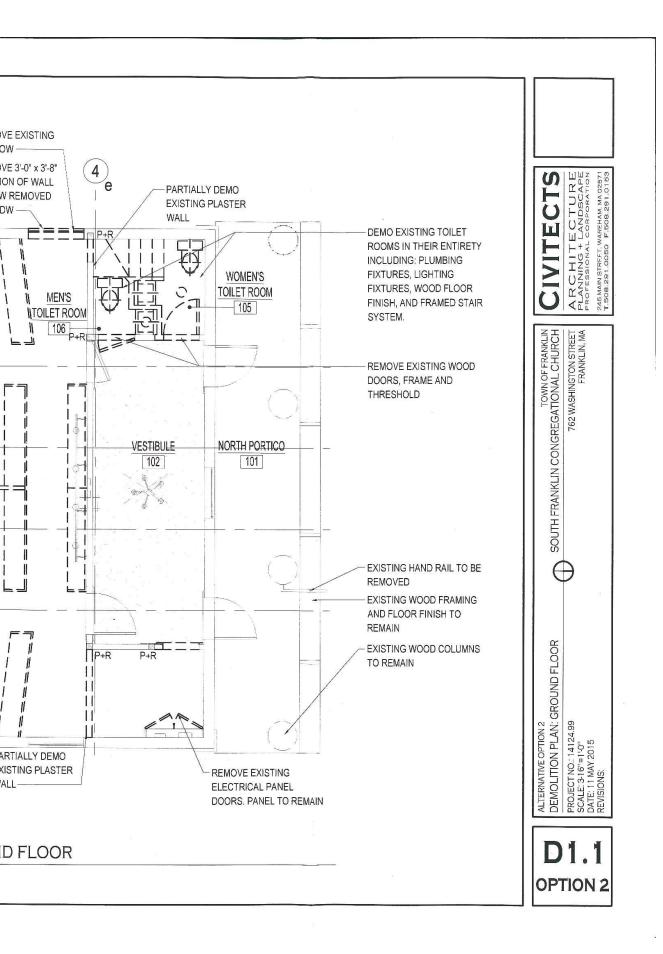


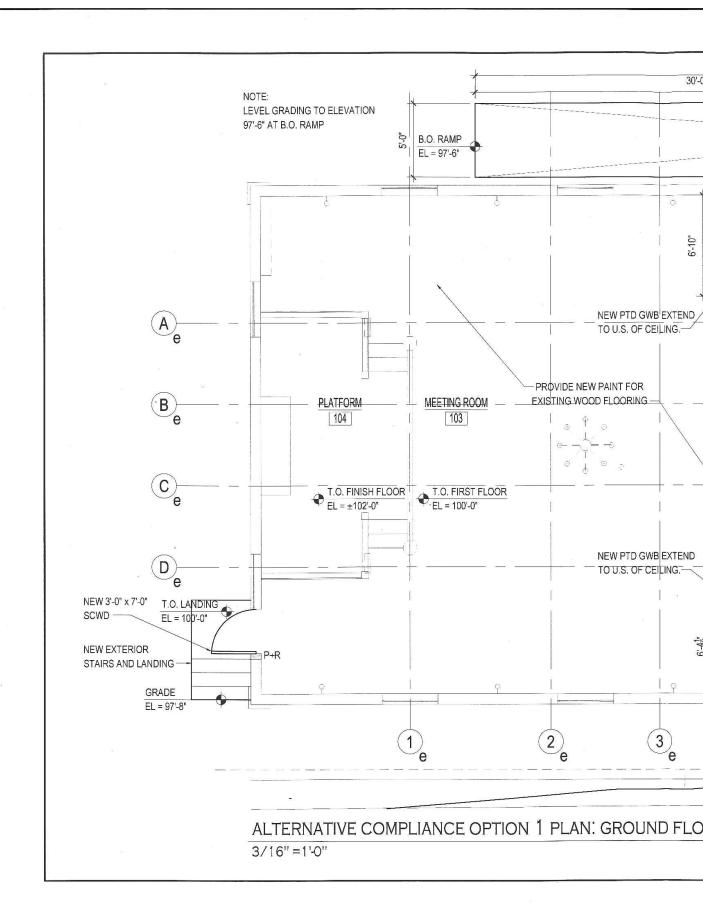


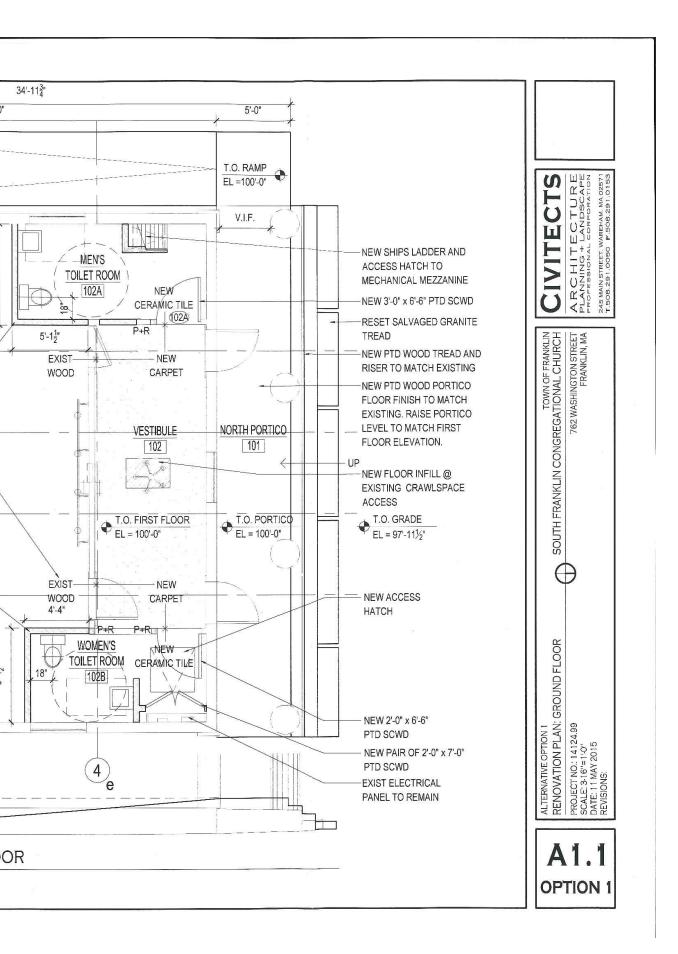


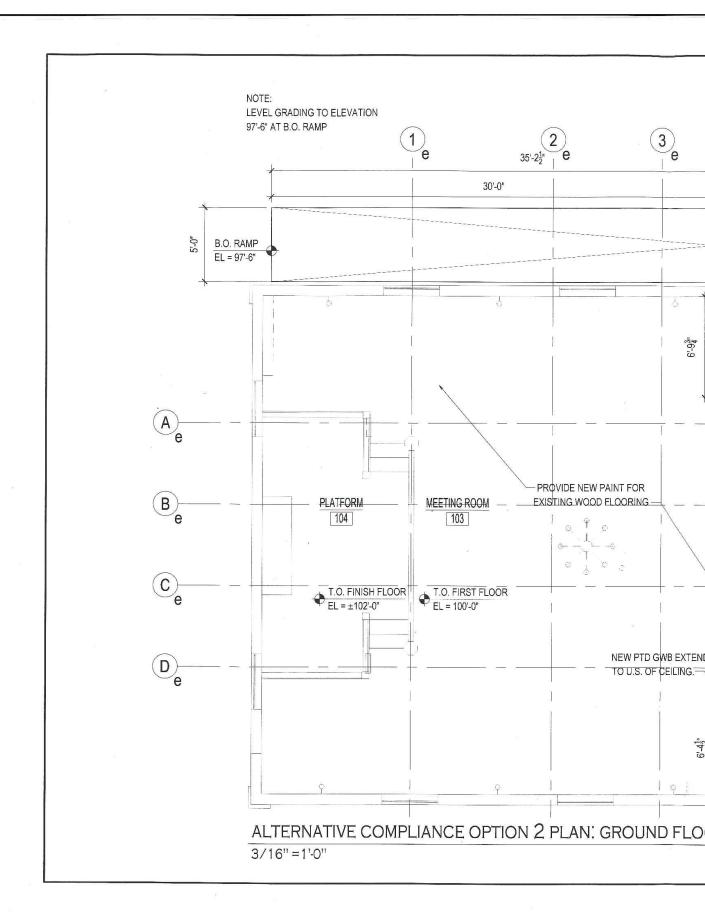


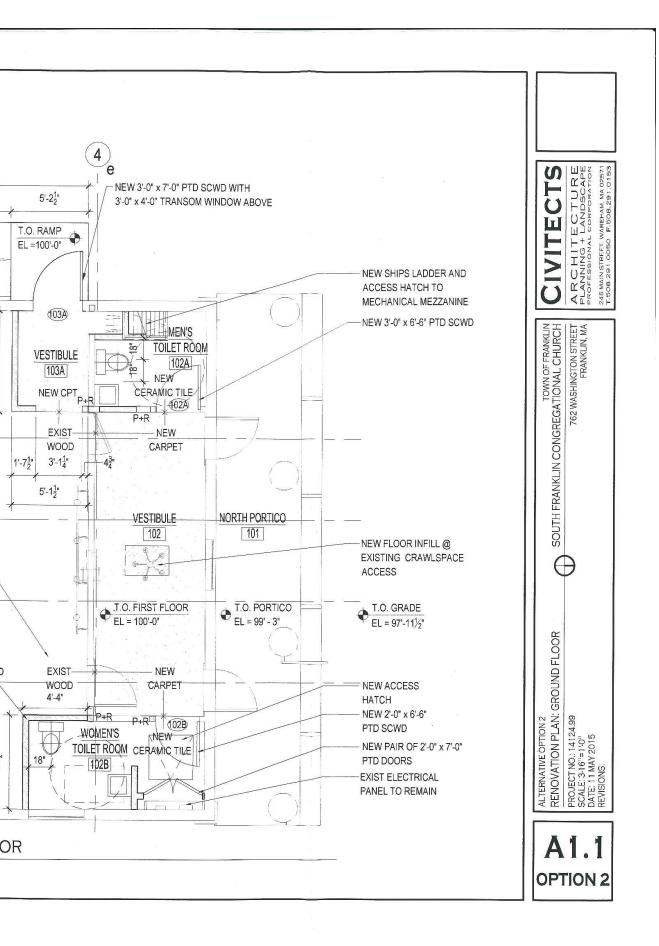












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Massachusetts Cultural Resource Information System

Scanned Record Cover Page

FRN.325 **Inventory No:**

Historic Name: Union Congregational Parish of South Franklin

Common Name: First Congregational Parish Church

Address: 762 Washington St

Citv/Town:

Village/Neighborhood: South Franklin - Wadsworth

Local No: 305, 322-050 Year Constructed: 1861

Architect(s):

Architectural Style(s): Greek Revival

Use(s): Abandoned or Vacant; Church; Museum

Significance: Architecture; Community Planning; Education; Religion

FRN.E: South Franklin Area(s):

Designation(s):

Roof: Asphalt Shingle

Building Materials(s): Wall: Wood; Wood Clapboard

Foundation: Stone, Uncut



The Massachusetts Historical Commission (MHC) has converted this paper record to digital format as part of ongoing projects to scan records of the Inventory of Historic Assets of the Commonwealth and National Register of Historic Places nominations for Massachusetts. Efforts are ongoing and not all inventory or National Register records related to this resource may be available in digital format at this time.

The MACRIS database and scanned files are highly dynamic; new information is added daily and both database records and related scanned files may be updated as new information is incorporated into MHC files. Users should note that there may be a considerable lag time between the receipt of new or updated records by MHC and the appearance of related information in MACRIS. Users should also note that not all source materials for the MACRIS database are made available as scanned images. Users may consult the records, files and maps available in MHC's public research area at its offices at the State Archives Building, 220 Morrissey Boulevard, Boston, open M-F, 9-5.

Users of this digital material acknowledge that they have read and understood the MACRIS Information and Disclaimer (http://mhc-macris.net/macrisdisclaimer.htm)

Data available via the MACRIS web interface, and associated scanned files are for information purposes only. THE ACT OF CHECKING THIS DATABASE AND ASSOCIATED SCANNED FILES DOES NOT SUBSTITUTE FOR COMPLIANCE WITH APPLICABLE LOCAL, STATE OR FEDERAL LAWS AND REGULATIONS. IF YOU ARE REPRESENTING A DEVELOPER AND/OR A PROPOSED PROJECT THAT WILL REQUIRE A PERMIT, LICENSE OR FUNDING FROM ANY STATE OR FEDERAL AGENCY YOU MUST SUBMIT A PROJECT NOTIFICATION FORM TO MHC FOR MHC'S REVIEW AND COMMENT. You can obtain a copy of a PNF through the MHC web site (www.sec.state.ma.us/mhc) under the subject heading "MHC Forms."

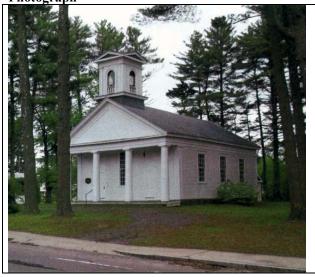
> Commonwealth of Massachusetts Massachusetts Historical Commission 220 Morrissev Boulevard, Boston, Massachusetts 02125 www.sec.state.ma.us/mhc

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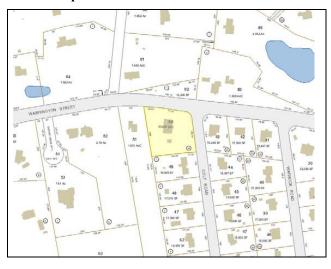
FORM B - BUILDING

MASSACHUSETTS HISTORICAL COMMISSION MASSACHUSETTS ARCHIVES BUILDING 220 MORRISSEY BOULEVARD BOSTON, MASSACHUSETTS 02125

Photograph



Locus Map



Recorded by: Eamon McCarthy Earls, Associate Member

Organization: Franklin Historical Commission

Date (month / year): March 2011

Assessor's Number USGS Quad Area(s) Form Number

322-050-000-000 E FRN.325

Town/City: Franklin

Place: (neighborhood or village): South Franklin

a.k.a. Wadsworth

Address: 762 Washington Street

Historic Name: Union Congregational Parish of South

Franklin / Old South Meeting House

Uses: Present: vacant, former town museum

Original: Congregationalist meeting house

Date of Construction: 1861

Source: Horace Mann Museum; Previously Union Evangelical Meeting

House- Minutes of member.

Style/Form: Greek Revival

Architect/Builder: unknown

Exterior Material:

Foundation: stone

Wall/Trim: wood

Roof: asphalt shingles

Outbuildings/Secondary Structures: small unrelated structure houses water department apparatus

Major Alterations (with dates):

addition of running water and toilet, probably early 20th century

Condition: Excellent

Moved: no ⊠ yes □ Date:

Acreage: 0.769 acres

Setting: residential area

RECEIVED

JUN 06 2011

MASS. HIST. COMM.

2011

FRANKLIN

762 Washington St

Area(s) Form No.

E 325

MASSACHUSETTS HISTORICAL COMMISSION 220 Morrissey Boulevard, Boston, Massachusetts 02125

⊠ Recommended for listing in the National Register of Historic Places.

If checked, you must attach a completed National Register Criteria Statement form.

Use as much space as necessary to complete the following entries, allowing text to flow onto additional continuation sheets.

ARCHITECTURAL DESCRIPTION:

Describe architectural features. Evaluate the characteristics of this building in terms of other buildings within the community.

A Greek revival, Congregationalist church, and the oldest church building in the Town of Franklin. The Union Evangelical Meeting House is part of an agrarian legacy left by the villagers of Wadsworth and the greater South Franklin area, and a substantially unchanged landmark in a city that has seen extensive growth and property development. The building is rectangular, approximately two-stories with a large attic and a bell tower. It is not ornate except for the five Doric columns at its front. There are no similar structures in the community.

HISTORICAL NARRATIVE

Discuss the history of the building. Explain its associations with local (or state) history. Include uses of the building, and the role(s) the owners/occupants played within the community.

Planned by the Congregationalist community of South Franklin in 1856, a committee prepared minutes in 1857 outlining the plan for a community meeting house and religious center. The new building would fill a niche. The devout Congregationalists of South Franklin were separated by several miles from the main Congregationalist church in the center of Franklin, and during inclement weather, or harvest seasons it could be difficult to attend far off church services.

The center of South Franklin was located less than a mile away from the planned meetinghouse, where a small village (usually referred to as Wadsworth, but also more broadly as South Franklin) had taken shape. The village took its name from the Wadsworth family, who moved from Milton, Massachusetts to Franklin in the early 1800s and soon established a small farming village, that later hosted a railroad station on New York, New Haven & Hartford Railroad's Midland Division, a post office, blacksmith shop, village store, and even a watch repair shop, owned by a member of the Wadsworth family who contracted poliomyelitis (rendering him partially paralyzed).

Wadsworth, and the Union Evangelical Meeting House were associated with the 'flowering of New England.' During the late 1850s, a one-room school house between Wadsworth and the Meeting House hosted a "Lycaeum" and debating society. George Wadsworth, a member of the Wadsworth family who lived from the 1830s until 1906 kept a detailed day-to-day journal of Franklin agricultural life and society between 1857, culminating shortly after the blizzard of 1888. Wadsworth describes farming practices, and gives a detailed portrait of the farm country of South Franklin and its religious life, as well the development of the village of Wadsworth.

The Union Evangelical Meeting House continued as a center of Franklin life far into the 20th century, and a site for lively debate. Debates were commonly held when religious services were not in session, and farmers are documented as having debated controversial topics such as national prohibition of alcohol, in the *Franklin Sentinel* (community newspaper, 1878-1978). The church was spared significant damage in the hurricane of 1938, although Franklin's main Congregationalist church became the Federated Church as the Baptist and Congregationalist communities were merged following the destruction of the Baptist church.

Continuation sheet 1

FRANKLIN

762 Washington St

Area(s)

Form No.

Ε 325

MASSACHUSETTS HISTORICAL COMMISSION 220 Morrissey Boulevard, Boston, Massachusetts 02125

Citing the declining Congregationalist community in Franklin, and the costs of maintaining the Meeting House, the Franklin Federated Church began seeking new uses for its building in the early 1970s. Services continued at the Union Evangelical Meeting House until 1972, at which point the Federated Church, supervising the Meeting House, reached an agreement to deed the building to the Town of Franklin, on condition that it be used solely as a religious meeting center, or as a community museum. In the run up to the national and town bicentennials, the Franklin Historical Commission was formed and occupied the building, that was renamed the Horace Mann Museum. A wide of artifacts, documents, and photographs were preserved here and placed on display, and the museum opened to the public in 1975.

In 2007, the museum was closed to the public in preparation for an expected move to a more accessible location. After the former town hall (built 1842, rebuilt 1916), later senior center, was closed, the Franklin Historical Commission was allowed to use the new building to house its collection. Museum artifacts were moved in 2010. The Franklin Historical Commission continues to oversee the preservation of this building, and archive photographs, and written records of the Meeting House, including the complete Union Sunday School library collection. The Union Evangelical Meeting House has never been extensively remodeled, after the installation of electric lighting, heating and plumbing systems. Today, the Meeting House is the oldest church in Franklin, and still possesses all the functional elements of a Congregational church included pews, a bell, bell rope, and steeple.

BIBLIOGRAPHY and/or REFERENCES

Horace Mann Museum; Previously Union Evangelical Meeting House- Minutes of member meetings during planning and building, March 1857-April 1861. (manuscript photocopy)

Johnston, James C. Odyssey in the Wilderness. Medway: Wayside Press, 1978. Print.

Blake, Mortimer. A History of the Town of Franklin, Mass.: From its Settlement to the Completion of its First Century. Franklin: Committee of the Town. 1878. Print.

Lembo, Gail V., ed., Diaries of George M. Wadsworth: 1857-1893. Franklin, 1998. Print.

FRANKLIN

762 Washington St

Area(s) Form No.

E 325

MASSACHUSETTS HISTORICAL COMMISSION 220 Morrissey Boulevard, Boston, Massachusetts 02125

National Register of Historic Places Criteria Statement Form

Check all that apply:
☐ Individually eligible ☐ Eligible only in a historic district
Contributing to a potential historic district Potential historic district
Criteria: 🛛 A 🗌 B 🖾 C 🗍 D
Criteria Considerations:
Statement of Significance by <u>James McCarthy Earls</u> The criteria that are checked in the above sections must be justified here.

The Union Evangelical Meeting House, located in South Franklin, Massachusetts is an example of 1850s American Greek revival architecture. The Meeting House is a unique architectural reminder of the early agricultural and Congregationalist heritage of Franklin.

FRANKLIN

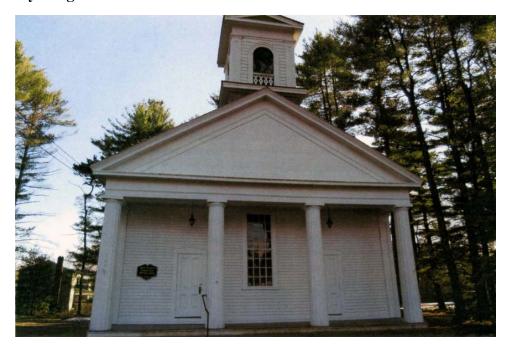
762 Washington St

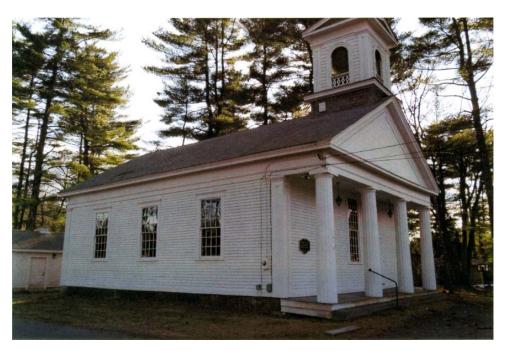
Area(s) Form No.

Ε 325

MASSACHUSETTS HISTORICAL COMMISSION 220 Morrissey Boulevard, Boston, Massachusetts 02125

Supplementary images





Continuation sheet 4

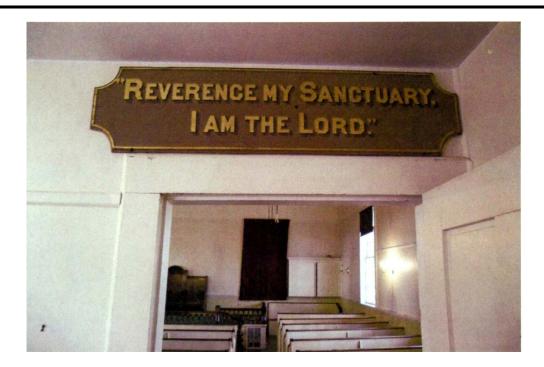
FRANKLIN

762 Washington St

Area(s) Form No.

E 325

MASSACHUSETTS HISTORICAL COMMISSION 220 MORRISSEY BOULEVARD, BOSTON, MASSACHUSETTS 02125





Continuation sheet 5

FRANKLIN

762 Washington St

Form No. Area(s)

> Ε 325

MASSACHUSETTS HISTORICAL COMMISSION 220 Morrissey Boulevard, Boston, Massachusetts 02125



View of Old South Meeting House, Franklin from the northeast, across Washington St., with Colt Rd. intersection in foreground.



Same view as above, but closer ...

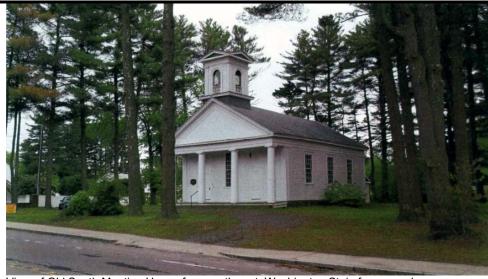
FRANKLIN

762 Washington St

Area(s) Form No.

E 325

MASSACHUSETTS HISTORICAL COMMISSION 220 Morrissey Boulevard, Boston, Massachusetts 02125



View of Old South Meeting House from northwest, Washington St. in foreground.



View of rear of structure looking toward north. Recent outbuilding from late 1990s is to right.

MASSACHUSETTS HISTORICAL COMMISSION

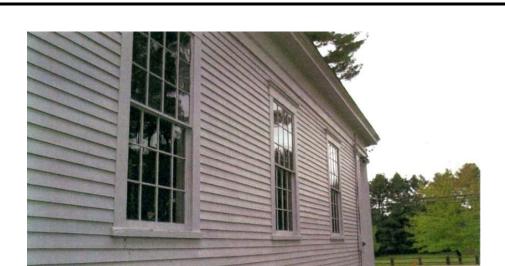
220 Morrissey Boulevard, Boston, Massachusetts 02125

FRANKLIN

762 Washington St

Area(s) Form No.

Ε 325



Close view of east side of Old South, looking toward Washington St and the north.

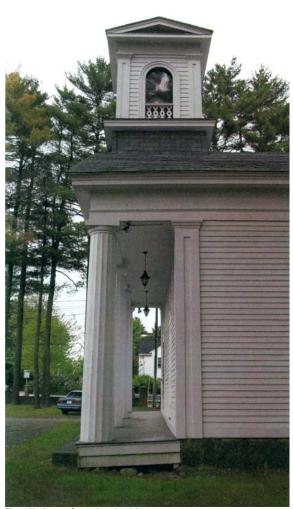
FRANKLIN

762 Washington St

Area(s) Form No.

Ε 325

MASSACHUSETTS HISTORICAL COMMISSION 220 Morrissey Boulevard, Boston, Massachusetts 02125



Detail view of portico looking east



Detailed view of portico looking west

MASSACHUSETTS HISTORICAL COMMISSION

220 Morrissey Boulevard, Boston, Massachusetts 02125

FRANKLIN

762 Washington St

Area(s) Form No.

Ε 325

Front foyer with bell rope at left

FRANKLIN

762 Washington St

Area(s) Form No.

E 325

MASSACHUSETTS HISTORICAL COMMISSION 220 Morrissey Boulevard, Boston, Massachusetts 02125



View looking up stairs in attic at interior of steeple, bell and bell rope



Attic interior looking toward belfry.

FORM B - BUILDING

MASSACHUSETTS HISTORICAL COMMISSION Office of the Secretary, State House, Boston



4. Map. Draw sketch of building location in relation to nearest cross streets and other buildings. Indicate north.

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	23000
1.	Town Franklin
	Address Washington Street
	Name First Congregational Parish
	Present use Franklin Historical
	Commission Property
	Present owner Franklin
3.	Description:
	Date 1856
	Source Blakes History P. 97

Date 1854	
Source Bla	kes History P. 97
Style Country	Greek Revival
Architect	
Exterior wall fat	oric wood
Outbuildings (des	scribe) NONE
Other features_	steeple
	Stall but the
territoria di di	I there is no say, - 1
Altered	Date

5. Lot size: Less than one acre Over one acre Approximate frontage Approximate distance of building from street

Moved

6. Recorded by James C. Organization Franklin

JUN 28 1973

Date

		~~ ~
7. Original owner (if known) Cour	ncil of the First	Parish
Original use Church	an areaso	- CONTROL OF THE PARTY OF THE P
Subsequent uses (if any) and date	es Historical Com	mission
8. Themes (check as many as appli	cable)	
Aboriginal Agricultural Architectural The Arts Commerce Communication Community development	Conservation Education Exploration/ settlement Industry Military Political	Recreation Religion Science/ invention Social/ Humanitarian Transportation
9. Historical Significance (include e	explanation of themes ch	ecked above)
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10. Bibliography and/or references early maps, etc.)	s (such as local his	はなる。
Blake, Mortimer. His	tory	

Macris	form (w/corresp.)			0	FRN.325
NR director Community: Franklin					
		MHC OPINION: E	LIGIBILITY FOR NAT	IONAL REGISTER	
Date Received:	6 June 2011	Date Due:	Date Rev	iewed: 15 June 2011	
Type:	<u>x</u> Individual	_Dist	rict (Attach map indicat	ting boundaries)	
Name: Union E	vangelical Meeting	g House Inven	tory Form: FRN.325		
Address: 762 W	/ashington St				
Requested by: E	Eamon McC. Earls	. LHC			
Action:	Hono	orITC	Grant	R & COther:	
Agency:		Staff in cha	arge of Review:		
INDIVIDUAL PR	OPERTIES			DISTRICTS	
x EligibleEligible, also iEligible only iiIneligibleMore information	n district			Eligible Ineligible More information needed	
CRITERIA:		<u>x</u> A	В	<u>x</u> _C	D
LEVEL:		x Local	State	National	
STATEMENT OF	SIGNIFICANCE	by Phil Bergen			

Relatively preserved modest mid 19th century Congregational meetinghouse, reflecting the rural area in which it sat, the property was built as a relief for South Franklinites removed from the town center. Oldest church building in town. Rectangular, with preserved bell and steeple, it has four Doric columns on its front façade.

The church was closed in 1972, donated to the town, and used as museum until 2007. It is currently vacant.

Additional photos show the outside on all sides, attic and bell, and provide some more information, although outbuildings are not satisfactorily documented. Although vacant, building appears to be in good condition.

Community: Franklin

Original yellow form: Eligibility file Copies: Inventory form Town file(w/corresp.) Macris NR director____

MHC OPINION: ELIGIBILITY FOR NATIONAL REGISTER

· · · · · · · · · · · · · · · · · · ·				
Date Received: 9 May 11		Date Reviewe	d: 18 May 11	
Type: <u>x</u> Individua	lDistr	rict (Attach map in	dicating boundaries)	
Name: Union Evangelical Me	eeting House	Inventory Form:	FRN.325	
Address: 762 Washington Str	eet			
Requested by: Eamon Earls, I	LHC			
Action:HonorITC	GGrant	R & C	_Other:	
Agency:	Staff in cha	arge of Review:		
INDIVIDUAL PROPERTIE	L'S	DISTRICTS	S	
Eligible Eligible, also in district Eligible only in district Ineligible More information needed		Eligible Ineligible More info	ormation needed	
CRITERIA:	A	B	C	_D
LEVEL:	Local	State	National	
STATEMENT OF SIGNIFIC	CANCE by Phil Ber	gen		
A relatively preserved modest mi	d 19 th -century Congrega	ational meeting hous	e. reflecting the rural area in	

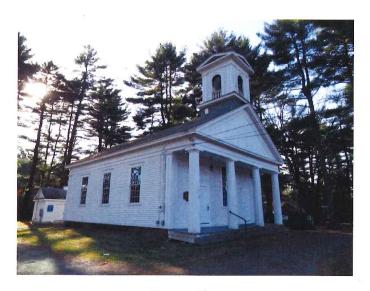
A relatively preserved modest mid 19th-century Congregational meeting house, reflecting the rural area in which it sat, the property was built as a relief for South Franklinites removed from the town center. It is the oldest church building in the town. Rectangular, with preserved steeple and bell, it has four Doric columns on its front façade.

The church was closed in 1972, donated to the town, and was used as a town museum until 2007.

Questions arose about the outbuildings on site, the lack of substantial interior and exterior photos, and the surrounding area. The church appears to be in good condition, even though the building is currently vacant.

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A Comprehensive Investigation & Analysis of Existing Conditions at the South Franklin Congregational Meeting House 762 Washington St Franklin, MA



Prepared for The Town of Franklin, MA by



245 MAIN STREET WAREHAM, MA 02571 1508 291 0950 F 508 291 0153 WWW. CIVITECTS. COM OFFICE ## CIVITECTS COM

11 May 2015

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List of Drawings

Title Sheet:

Title Sheet T1.1

Existing Conditions:

EX1.0 Existing Conditions Plan: Crawlspace EX1.1 Existing Conditions Plan: Ground Floor EX1.2 Existing Conditions Plan: Mezzanine

Alternative Option No. 1

D1.1 Option No.1 Demo Plan: Ground Floor A1.1 Option No.1 Renovation Plan: Ground Floor

Alternative Option No. 2

D1.1 Option No. 2 Demo Plan: Ground Floor A1.1 Option No. 2 Plan: Ground Floor

1. INTRODUCTION

South Franklin Congregational Meeting House

Constructed in 1861, the South Franklin Congregational Meeting House (SFCMH) also known as Union Evangelical Meeting House originally functioned as a Congregationalist church. The building is designed in the Greek revival style with 4 Doric columns along the north façade. The building is rectangular in footprint and is approximately 2 stories tall with an attic and bell tower. Located within what is currently designated as the greater South Franklin Area, the church was originally intended to provide the Congregationalists of South Franklin a place to commune when inclement weather or the harvest season made worshiping at the main Congregationalist church in the center of Franklin difficult. When religious services were not in session, the building also served as a debate hall for the South Franklin area. In 1972, the Federated Church deeded the building to the Town of Franklin. The building housed the Franklin Historical Museum from 1975 until 2007 when the museum relocated.

The typical exterior wall construction is wood framed with painted clapboard siding and corner boards on the exterior and painted lath and plaster on the interior.

Scope & Project History

The objective of this study is to evaluate the conditions of major building systems, including existing MEP systems; assess structural conditions; evaluate the condition of the building envelope; identify code concerns; review accessibility issues; and to recommend appropriate repairs and improvements with associated costs.

The Town of Franklin solicited Civitects, PC for a proposal to perform a comprehensive investigation of the existing conditions at the Meeting House. On December 16th, 2014, Civitects met with the Town's Building Commissioner/Zoning Officer, Gus Brown, to conduct the initial field survey. The Scope of work requested by the Town of Franklin included the following:

Provide a comprehensive field investigation of the existing conditions.

Review existing conditions with the Town's Building Commissioner and perform an assessment of the repairs needed.

3. Prepare a report with written description and analysis of the current conditions and issues. Make recommendations for remediation of the conditions/issues, including a prioritization for immediate and long-term action with cost estimates for repair/replacement of same, for review by the Town of Franklin.

 Meet with Building Commissioner, Gus Brown and Town Administrator, Jeffrey Nutting as required, to present and discuss the report/recommendations.

Methodology

Civitects began a comprehensive field investigation of both the exterior and interior conditions, noting and photo-documenting observations on December 16, 2014. As part of the investigation, Civitects reviewed existing conditions with respect to the current editions of the International Building Code (IBC), the International Existing Building Code (IEBC) and Massachusetts State Building Code (MSBC – 8th Edition) and the requirements of the Massachusetts Architectural Access Board (MAAB). After the initial survey work, Civitects developed recommendations for short-term and long-term goals for repair and replacement of major building systems, including cost estimates. We have not included sampling and testing of potentially hazardous materials in our scope of work. It is understood that the Town will bear the responsibility for retaining the services of a qualified environmental engineering consultant to perform a thorough review of existing conditions to determine the quantities and locations of potentially hazardous materials prior to undertaking any work.

END OF SECTION

2. EXISTING CONDITIONS REPORT: ARCHITECTURAL

A. GENERAL

Designed in the Greek Revival style, the Meeting House is considered the town's oldest religious structure. Originally known as the Union Congregationalist Meeting House, the building is rectangular in massing and consists of a single story with a mezzanine storage space and bell tower. The overall design is relatively simple. The gabled roof extension along the north façade overhangs the open portico below. The roof extension is supported by five Doric columns.

First floor spaces include a vestibule at the north entrance with both male and female toilet rooms at the west end of the vestibule (Photo A.3). Electrical service is fed to a storage space at the east end of the vestibule where the electrical panel is located. To the southern of the vestibule is the meeting room with fixed pews and a raised platform at the south end of the space (Photos A.1 and A.2). Interior walls and ceiling finishes consist of painted plaster over wood lathe. The existing wood floor boards are painted. The building also contains a crawlspace with a dirt floor which is accessed by removing several floor boards in the north vestibule. A detailed structural assessment of the condition of existing 1st floor framing members was completed by structural engineering consultant DM Berg and is included herein.

Access to the mezzanine and bell tower is by way of an interior winding stair located within the women's toilet room at the northwest corner of the building.



Photo A.1 - Meeting Room



Photo A.2 - Meeting Room Platform



Photo A.3 - North Vestibule

The structure is wood framed with wood clapboard exterior siding; the Construction Type is assumed to be VB. The building measures approximately 52'-4 feet long x 35 feet wide x approximately 33 feet high; the building footprint measured in gross square feet (GSF) is around 1,843 GSF.

The unofficial property record card for 2014 lists the total value of the property at \$281,000. The record card breaks the property value down as follows:

Building Value: \$125,300
Extra Features Value: \$3,100
Land Value: \$152,600
Total Value: \$281,000

B. SITE

The Meeting House is located in South Franklin at 762 Washington Street on approximately 0.655 acres at the intersection of Washington Street and Colt Road. The property is bounded by Colt Road to the east and Washington Street to the north. Situated in a residential neighborhood near the Franklin State Forest (Photo B.1), the Meeting House is surrounded by large pine trees with single family residences to the south and west of the structure. It was observed that Washington Street experiences heavy vehicular traffic throughout the day. Located on the property approximately 24 feet south of the Meeting House is an 18' x 14' booster station for the Town of Franklin Water Department.

The parking area and driveway appears to consist primarily of gravel (Photo B.2). Pine needles scattered around the perimeter of the building obscure much of the site; no impervious paved surfaces were noted. Parking spaces are not identified; there is no striping delineating either accessible or non-accessible parking spaces. There is no signage identifying accessible parking spaces.



Photo B.1 - Aerial photograph



Photo B.2 - View from Washington Street

C. EXTERIOR ENVELOPE

Walls

Exterior walls consist of wood framing with white painted clapboard siding and corner boards at each of the building's four corners (Photo C.1). Both the wood framing and siding appear to be in good condition. The foundation wall is comprised of large granite slabs over stone rubble (Photo C.2). The joints between the granite slabs are not sealed and are open to the crawlspace below the first floor. The granite units themselves are in good condition with no visible cracks observed.





Windows and Doors
There are a total of nie exterior windows; one window at the north elevation, three windows at both east and
west elevations, and two windows at the south elevation. The window at the north elevation, located in the
vestibule, is a 16 over 16 double hung wood window and is in good condition. The remaining windows,
located in the Meeting Hall space, are 12 over 12 double-hung wood windows and are also in good condition
(Photo C.3). Windows at the south façade are provided with exteror shutters. The existing windows are not
energy efficient by current energy standards; glazing is single paned. The windows do not appear to be in
immediate need of replacement or repair.

Exterior doors consist of two egress doors along the north elevation (Photo C.4). Both doors and frames are wood and assumed to be original to the building and are in fairly good condition. Existing door hardware does not meet accessibility regulations.





Roof

The gable roof is comprised of asphalt shingles over wood board sheathing over sloped wood rafters. A wood-framed bell tower is located at the north end of the roof above the main entrance. In keeping with the Greek Revival style, the gabled roof extends over the north portice and is supported by four Doric columns. The asphalt roof shingles are in fair condition. It is not know when the roof shingles were installed, however they appear to be approaching the end of their lifespan. There are no gutters or downspouts.

Sampling and testing of existing building materials for hazardous materials are not part of this study. Any modifications to existing systems should include an evaluation of building materials such as mastic associated with the existing roof shingles. It is recommended that an inspection for hazardous materials be performed by the Town's licensed environmental consultant.

D. BUILDING INGRESS AND EGRESS

Stairs and ramps

The main entrance to the Meeting House is located along the north elevation. Access to the first floor is by way of a painted wood-framed portico and granite risers which span the full width of the north façade (Photos C.4 and D.1). First floor egress is limited to two single doors which exit from the north vestibule to the portico; there are no other egress doors servicing the first floor. The overall condition of the portico framing, wood floor boards, and granite risers is good (Photo D.1).



Photo D.1 - North portico

The building does not have an accessible entrance. The main entrance is not considered accessible as there is no accessible route from grade to the portico. Additionally, the level change from the portico to first floor represents an architectural barrier. The level change from grade to portico is approximately 15-1/2" and the differential between the portico and first floor vestibule is 9". Therefore, the total differential between grade and first floor is approximately 24-1/2".

Occupancy Load: Existing

The existing occupancy load calculation, including fixed seating located in the Meeting Room, is as follows (Table D.1):

Table D.1: Building Occupancy Load: Existing

Space	Max. Floor Area per Occupant	Calculation	Occupants
Vestibule (102)	N/A	N/A	N/A
Meeting Room (103)	1 Occ. per 18" (continuous fixed seating)	85.125" / 18" = 4.72 [4 occ.]x(14 Rows) = 56 84.125" / 18" = 4.66 [4 occ.]x(12 Rows) = 48 168.5" / 18" = 9.36 [9 occ.]x(1 Row) = 9 93.5" / 18" = 5.19 [5 occ.]x(1 Row) = 5	118
Platform / Altar (104)	1 Occ. per 15 NSF (stages + platforms)	149 NSF / 15 = 10	10
Standing Area (east of platform)	1 Occ. per 5 NSF (standing area)	75 NSF / 5 = 15	15
Standing Area (west of platform)	1 Occ. per 5 NSF (standing area)	65 NSF / 5 = 13	13
Electric Closet (Accessory Area)	N/A		0
Toilet Rooms (Accessory Area)	N/A		0
Mechanical Mezzanine (Accessory Area)	1 Occ. per 300 GSF	192 SF / 300 GSF = 1	1
Total			157 Existing Occupants

Occupancy Load: Allowable

It is understood that the existing fixed seating will be removed with any planned renovation. Therefore, for the following Occupancy Load calculation based on IBC Table 1004.1.1 (Table D.2 below), we have assumed an occupant load with no fixed seating and a continuation of the same use (A-3).

Table D.2: Building Occupancy Load: Proposed Allowable*

Space	Max. Floor Area per Occupant	Calculation	Occupants
Vestibule (102)	N/A	N/A	N/A
Meeting Room (103) (excludes Vestibule 103A)	1 Occ. per 5 NSF (standing area)	970 NSF / 5 = 194	194**
Platform / Altar (104)	1 Occ. per 15 NSF	149 NSF / 15 = 10	10
	(stages + platforms)		
Electric Closet (Accessory Area)	N/A		0
Toilet Rooms (Accessory Area)	N/A		0
Mechanical Mezzanine (Accessory Area)	1 Occ. per 300 GSF	192 SF / 300 GSF = 1	1
Total			205 Proposed Allowable Occupants

Note:

As a result of the removal of the existing fixed seating, the maximum allowable occupancy load will increase from 157 to 205.

Exits and Exit Access Doorways

Per IBC Table 1015.1, the maximum occupant load allowable for spaces with one exit or exit access doorway for an A Use Group is 49. Based on our code analysis which assumes a continuation of the same use (A-3), the occupant load will exceed 49. Therefore, a second means of egress will be required.

Two interior exit access doorways are located along the north wall of the Meeting Room leading to the north vestibule. An exit access doorway is defined as a door along the path of egress travel from an occupied room, area or space where the path of egress enters an intervening room. The existing pair of exit access doorways from the Meeting Room to the Vestibule does not meet the remoteness criteria indicated in the code (Table D.3 below). Per IBC 1015.2.1 exit access doorways must be placed a distance apart equal to not less than one-half of the length of the overall diagonal dimension of the building or area to be served measured in a straight line between exit doors or exit access doorways.

Table D.3: Remoteness analysis based on the existing non-sprinklered building as follows:

Space	Egress Component	Overall Diagonal Dimension (Existing)	1/2 Diagonal Dimension (Min. Required)	Actual	Determination
Meeting Room	Exit Access Doorway	49'-0" (+/-)	24'-6"	17'-0" (+/-)	Non- Compliant
Vestibule	Exit Door	22'-0" (+/-)	11'-0"	17'-0" (+/-)	Compliant

Code Ref.	Section	Issue	Potential Options
IBC	1015.2.1	Remoteness of Exit Access Doorway	Sprinkler building throughout Provide a 2 nd means of egress along south elevation. 2 nd means of egress could also be utilized as the accessible entrance for the building

^{*}Allowable Occupancy Load Calculation is based on the assumption that the building's existing Use Group Classification of A-3 Assembly will remain unchanged and that there will be no fixed seating

^{**} Proposed Allowable Occupancy Load is based on schematic design provided for Compliance Alternative Option No. 2

To comply with the remoteness criteria indicated in IBC 1015.2.1, an option would be to install an automatic sprinkler system throughout the building. Per Exception No. 2 of this section, the separation distance for exit doors or exit access doorways is reduced to 1/3 of the length of the maximum overall diagonal dimension of the area served for buildings equipped throughout with an automatic sprinkler system in accordance with IBC 903.3.1.1 or 903.3.1.2 (Table D.4 below). However, as noted in the report prepared by RDK Engineers, a sprinkler system is not required based on the building size and where the occupancy load is less than 300.

Table D.4: Remoteness analysis based on a fully sprinklered building as follows:

Space	Egress Component	Overall Diagonal Dimension (Existing)	1/3 Diagonal Dimension (Min.	Actual	Determination
		(=====,	Required)		
Meeting Room	Exit Access Doorway	49'-0" (+/-)	16'-4"	17'-0" (+/-)	Compliant
Vestibule	Exit Door	22'-0" (+/-)	7'-4"	17'-0" (+/-)	Compliant

An alternative compliance option would be to provide a second means of egress per IBC 1015.2.1 Exception No. 1. Since a second means of egress will be required for the Meeting Hall as a result of the building's occupancy load exceeding 49, provisions for a second means of egress meeting the remoteness criteria would be a more cost-effective alternative to the installation of a sprinkler system. The required second means of egress could also function as the accessible entrance for the building (refer to Section F: Accessibility). We have provided two schematic designs which incorporate the addition of a second means of egress (Alternative Compliance Option Nos. 1 and 2).

The pair of existing exterior doors at the north façade swings in the direction of the path of travel and are approximately 34" wide each. Per IBC 1005, the total means of egress width shall be as follows:

Table D. 5: Egress Width per IBC 1005.1:

Occupant Load*	Factor	Total Egress Width Required	
205	0.2	41 inches	

*Note: Occupancy Load is based on the assumed continuation of the same Use Group (A-3 Assembly) and that there will be no fixed seating

Existing door openings less than those specified in the code may be approved by the AHJ in accordance with IEBC 1103.3 if there is sufficient width and height for a person to pass through or traverse the means of egress.

E. INTERIOR

Stairs and Guards

Access to the mezzanine storage space is by way of a single winding stair at the west end of the north vestibule. From the mezzanine level another stair leads to the bell tower. Per IBC 505.3 - Exception No. 1, a single means of egress is permitted for mezzanines in accordance with Section 1015.1.

The stair is not enclosed and walls are not rated. The code criteria for a new stair connecting 3 stories or less require a 1-hour fire rated enclosure. However, for buildings which can be classified as historic in accordance with IEBC Ch. 11, the required 1-hr. rating need not be provided where the existing wall and ceiling finish is wood or metal lath and plaster (IEBC 1103.7). Additionally, existing handrails and guards at all stairs shall be permitted to remain in historic buildings provided they are not structurally dangerous (IEBC 1103.9).

Since the mezzanine is currently being underutilized as storage for non-essential items, it is recommended that this space be converted into a mechanical mezzanine to house the new air handling unit (AHU) proposed by RDK. Demolition of the existing stair to the mezzanine would allow for the construction of a new ship's ladder to provide access to the mezzanine.

As noted in IEBC 705.8.1 exit signs shall be provided in accordance with the requirements of the IBC. For buildings classified as historic, where exit signs marking location would damage the historic character of the building, alternative exit signs are permitted with the approval of the AHJ (IEBC 1103.11).



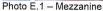




Photo E.2 – Attic above Meeting Room

Interior Finishes

The intent of this study is to focus on code compliance concerns and the evaluation of major building systems; interior finishes have not been addressed as part of this study.

ACCESSIBILTY / MAAB

Jurisdiction

Per MAAB Ch. 3.3.1.b, when the work being performed amounts to less than 30% of the full and fair cash value of the building and costs \$100,000 or more, then the work being performed is required to comply with 521 CMR. Additionally, 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).

Exception: Whether performed alone or in combination with each other, the following types of alterations are not subject to 521 CMR Section 3.3.1 unless the cost of the work exceeds \$500,000 within a thirty-six month period.

- Alteration work which is limited solely to electrical, mechanical, or plumbing systems; to the abatement of hazardous materials; or retrofit of automatic sprinklers and does not involve the alteration of any elements for spaces required to be accessible under 521 CMR. Where electrical outlets and controls are altered, they must comply with 521 CMR.
- ii. Roof repair or replacement, window repair or replacement, re-pointing and masonry repair

In the event that work performed, including exempted work, amounts to 30% or more of the full and fair cash value of the building, the entire building is required to comply with 521 CMR.

When the work performed on a building is divided into separate phases or projects, or is under separate building permits, the total cost of such work in any 36 month period shall be added together in applying 521 CMR 3.3, Existing Buildings to determine jurisdiction.

Accessible Route

For all spaces designated for public use, an accessible route shall be provided in accordance with MAAB 20.1: Accessible Route. An accessible route shall provide a continuous unobstructed path connecting accessible spaces and elements both inside and outside a facility. Based on our review of existing conditions, neither the interior nor exterior comply with the requirements of MAAB 20.1.

Accessible Route: Site

The existing driveway is gravel and there are no defined parking spaces on site. The number of accessible spaces will need to be determined in accordance with MAAB Section 23.2.1 based on the number of parking spaces that will be required for the building. Additionally, one van accessible space will be needed. A van accessible space shall be provided for one in every eight accessible spaces, but not less than one (MAAB 23.2.2).

Accessible parking spaces are presently not identified as there is no striping delineating parking spaces. It was also noted that there is no signage identifying accessible parking spaces.

Accessible Route: Building

The existing main entrance at the north façade is not considered accessible due to the elevation changes between the portico and first floor and the portico and grade. To meet MAAB requirements, the construction of either a ramp or vertical lift to provide access to the portico from grade would be needed. Additionally, in order to address the existing 9-1/2" (+/-) differential between the portico level and the 1st floor, the portico level would need to be raised to meet the level of the 1st floor. Raising the portico level is technically feasible; the existing portico framing and stair can be modified to comply. However, raising the portico level and the inclusion of a ramp leading to the front portico would arguably detract from the façade's historic aesthetics (refer to drawing A1.1 – Alternative Compliance Option No. 1).

Should the town decide to nominate the building for inclusion in the Massachusetts Register of Historic Places and the nomination is approved by the Massachusetts Historical Commission, the requirements of IEBC Ch. 11: Historic Buildings would apply. As such, alternative options for compliance with MAAB 20.1: Accessible Route may be considered. Per IEBC 1104.1.3 for historic buildings that undergo alterations (Level 1, 2, or 3), at least one main entrance is required to be accessible. However, per Exception No. 1 of this section, if a main entrance cannot be made accessible, an accessible non public entrance that is unlocked while the building is occupied shall be provided. Exception No. 2 offers an alternative to making the main entrance accessible by providing a locked accessible entrance with a notification system or remote monitoring (refer to drawing A1.1 – Alternative Compliance Option No. 2).

As noted in Section D, a second means of egress will be required as a result of the occupancy load exceeding 49. The addition of a second means of egress would allow an opportunity to meet the requirements of an accessible entrance as described in IEBC 1104.1.3.

For both Options 1 and 2, a ramp is included along the west elevation to minimize its visual impact from Colt Road and Washington Street. Per MAAB, a 1:12 slope (1" of rise for every 12" of run) is required. Due to an elevation differential of approximately 24" between grade and 1st Floor, a minimum horizontal length of 24'-0" will be required for both options in order to achieve a 1:12 slope. Signage identifying both accessible and inaccessible entrances would need to be provided in accordance with IBC 1110.

For alterations affecting an area containing a primary function, additional accessibility considerations should be considered. For the subject project, the Meeting Room would be considered the building's primary function area. Per IEBC 605.2, where an alteration affects the accessibility to a, or contains an area of, primary function, the route to the primary function area should be made accessible. Exceptions to this include the following:

- Exception No. 1: Costs of accessible route are more than 20% of the cost of the alterations of the prime function
- Exception No. 2: the provisions does not apply to alterations limited solely to windows, hardware, operating controls elect outlets and signs.

- 3. Exception No. 3: alterations limited to mechanical, electrical, or fire projections systems or hazardous materials abatement
- 4. Exception No. 4: alterations for the primary purpose of increasing the accessibility of an existing building facility or element.

Door Hardware

Existing interior and exterior doors are not equipped with hardware that complies with accessibility regulations. MAAB stipulates that door latch sets must be operable with one hand without requiring tight grasping, tight pinching, or twisting of the wrist to operate, thus lever-type operation. The installation of MAAB-compliant hardware will be required for doors associated with the accessible entrance and toilet rooms. Installation of MAAB-compliant hardware for the remaining doors within the building is recommended for doors affected by future renovations.

Drinking Fountains

There are no accessible drinking fountains present. Future accessibility upgrades will need to ensure that drinking fountains meet the quantity and dimensional requirements of the MAAB.

Existing toilet rooms consist of one male and one female toilet room comprised of one toilet and one sink each. Both toilet rooms are located at the west end of the 1st floor Vestibule, there are no toilet rooms present at the mezzanine. It is not clear when these toilet rooms were installed however, the locations of these toilet rooms are not considered acceptable per code. The male toilet room is underneath the stair to the mezzanine. Usable spaces under stairs require 1-hour fire-resistance-rated walls and soffits per IBC 1009.6.3; existing walls and soffits are not rated. The female toilet room is located at the bottom of the stairs; stair egress is through the female toilet room. IBC 1009.6.3 does not permit access to enclosed spaces within the stair enclosure.

Neither toilet room is code compliant and do not meet MAAB regulations; sinks controls consist of knobs; mounting heights are non-conforming and, in general, the rooms do not meet the dimensional requirements of the MAAB. As noted in RDK's report, the plumbing code requires both a male and female toilet room. The town may wish to explore the option of a unisex toilet room however, a variance requiring multiple approvals would be required.



Photo F.1 - Men's toilet room



Photo F.2 - Women's toilet room

IEBC 1104.1.4 requires at least one accessible family or assisted-use toilet room complying with Section 1109.2.1 of the IBC shall be provided (note: the Massachusetts amendments to the IBC delete section 1109.2.1 and instead requires conformance with the requirements of 521 CMR: Massachusetts Architectural Access Board). Provisions for an accessible toilet room can be integrated into the required toilet room upgrades (Refer to A1.1 Options 1 and 2). Additionally, signage must be provided at accessible toilet rooms in accordance with IBC Section 1110.

END OF SECTION



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South Franklin Meeting House, Franklin, MA

MEP RECOMMENDATIONS -January 19, 2015

The proposed renovations to the South Franklin Meeting House located at 762 Washington Street, Franklin, MA include renovations to the plumbing, HVAC, and electrical systems.

The scope as outlined below is based upon Civitecs PC drawings A-1 and A-2 dated January 16, 2015 and our site meetings on December 16, 2014 with the Town of Franklin's Building Inspector.

HVAC:

Provide an air handling unit (AHU) with gas heating and electric cooling located in the mechanical mezzanine. This AHU will be ducted to both the main open space as well as the entry foyer and will have economizing capability. The outside air ductwork to be routed to existing louver within the bell tower to maintain the historical appearance of the building.

Use of localized electric heating within the foyer and restroom(s) will be installed to offset air infiltration and/or localized heating.

These systems will replace the existing electric cabinet unit heaters installed throughout the spaces.

Toilet exhaust fan to be provided for the 1st floor restroom(s) and be ducted up to an existing louver within the bell tower.

The temperature control system to provide demand ventilation based on carbon monoxide levels to minimize energy use as well as networked into the Town's building management system for remote control.

HVAC

- Air handling unit (1 @ 3,000 CFM, 7.5 tons with economizer).
- Ductwork supply, return, and exhaust distribution, diffusers and grilles for all areas.
- Miscellaneous electric cabinet unit heaters and baseboard for the foyer and restroom(s).

Electrical

The building is serviced by a 120/240V single phase, 4W service distributed through an Arrow Hart/Murray 200 amp panelboard with 40 pole spaces. It is anticipated that this service size is appropriate for the recommended requirements of the building and no revisions are recommended. Existing branch circuity to be renovated as needed to suit the updated electrical plans.

South Congregational Meeting House 762 Washington Street Franklin, Massachusetts January 19, 2015 Site lighting consists of exterior egress lighting on daylight sensors and time clock controlled. These fixtures do not appear to meet the required 0.3 to 0.4 ft/candles standard and are recommended to be replaced. The interior lighting fixtures do not meet current codes and are recommended to be replaced along with an updating of switching and occupancy lighting control. There are emergency battery back-up lighting units serving the large open space and entry foyer which appear to be beyond their useful life expectancy – we recommend that these units be replaced with new. The existing exit signage does not meet current code and we recommend these units be replaced with new.

The fire alarm system serving the building consists of localized smoke detectors connected to a security panel with an automatic dialer to a security company. Current code does not require a fire alarm system in A-3 Assemblies occupancies with an occupant load less than 300 persons. Good design practice is to retain the existing smoke detection and add CO monitoring (based upon the proposed upgrade to gas heating) and the addition of horn/strobe notification appliances throughout. It is assumed the existing security panel can accommodate the proposed upgrades.

Plumbing

The current building has a $\frac{1}{2}$ " cold water service and a 4" waste that is reported to discharge to a septic system but it was noted that public sewer is evident in the street. There are two restrooms that are not code compliant as they lack hot water, accessible space, and ventilation. There is no gas service to the building but again it was noted that gas service appears evident within the neighborhood.

We recommend that a new sanitary connection to the public system on Washington Street in front of the building be made. A separate site/civil consultant evaluation of the condition of the septic system be completed to determine whether it is viable for reuse however for purposes of this study it is assumed that the existing septic system is beyond its useful life expectancy.

A new gas service is recommended for efficient heating connect to the existing utility infrastructure underneath the adjacent streets.

Based on the proposed occupancy of Assembly (A-3) the plumbing code requires both a Men's and Women's restroom. We recommend that discussions be started with the local plumbing and building inspectional services to determine whether a variance request for an accessible unisex restroom is suitable given this study's goal of maintaining the current building size and historic character. A variance request will likely require multiple approvals from local jurisdictions, accessibility, and state plumbing board agencies.

- Natural gas piping and service.
- New Plumbing fixtures and services for restroom(s) including sanitary, vents, and piping.
 - New domestic electric point of use water heater for restroom(s) and cold water piping plus insulation for each. New cold water for restroom(s) to be connected to the existing service.
 - New toilet(s) and lavatory(s), all with fixture carriers, sanitary and vent piping connecting to the existing service.

South Congregational Meeting House 762 Washington Street Franklin, Massachusetts January 19, 2015

Fire Protection

Per the Massachusetts General Laws Chapter 27 and state building code, chapter 9, table 903.2, based on the building size and occupancy (less than 300), the building is not required to have an automatic wet sprinkler system.

South Congregational Meeting House 762 Washington Street Franklin, Massachusetts January 19, 2015



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> ASSOCIATES William H. Barry, PE

January 19, 2015

Mr. Michael Keane Civitects PC 245 Main Street Wareham, MA 02571

OLD SOUTH MEETING HOUSE FRANKLIN, MASSACHUSETTS

SUBJECT:

STRUCTURAL EXISTING CONDITION STUDY AND STRUCTURAL FEASIBILITY

STUDY FOR RENOVATIONS AND ADDITIONS

Dear Mike:

We have completed our structural existing condition study and the analysis of the existing building for the feasibility to renovate and construct an addition. We have based our study on field measured structural components and the structural requirements of Chapter 11, Historic Structures of the 2009 International Existing Building Code (IEBC). Additionally, we have attached the "Code Analysis Worksheet for the 2009 International Existing Building Code with the latest Massachusetts Amendments which summarizes the structural requirements required to comply with the code.

The building was constructed in 1856 and is a one-story, and is approximately 1500 sf +/-, with a partial 250 sf mezzanine above the front entry foyer. There is a no basement, only a crawl space below the first floor. The building is constructed of wood. The first floor is framed with 3 x 5 and 2x6 joists spaced at an average spacing of approximately 17 inches on center and running front to rear. The joists span from the exterior sill to four lines of an interior 7x7 wood girders running side to side. The girders are supported typically on four, 9-inch +/- diameter timber posts spaced along the girder. One girder was observed to be supported by three square 6x6 timber posts spaced along the beam. All interior timber posts are supported on single stones directly on the ground. The joists and girders are supported at the perimeter on a wood sill that bears on the foundation wall constructed of granite blocks supported on a mortared stone foundation. The exterior walls are wood framed and are bearing. The roof structure is constructed of sloped rafters supported at the ridge, at a mid-span purlin and at the top of the exterior wall. The midspan purlin is supported by two queen rod trusses that span side to side of the over the assembly space and the front exterior bearing wall. Lateral wind and seismic loads have been and will be resisted by the exterior sheathed bearing walls.

During our existing condition site visit we made the following observations about the structure:

- We observed the first interior first floor girder line to have sections of girder with powder post beetle damage. We observed the beetle emergence holes along the girder as well as soft wood that could be pried loose with a screwdriver (Photos 1 and 2).
- We observed several timber posts to have powder post beetle damage. These posts seemed to be located towards the front of the building on the first interior girder line. We observed the beetle emergence holes on the entire length of the posts (Photos 3 and 4).

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- We observed the insect damaged timber posts to be crushing and splitting at the base (Photo 4).
- We observed the timber posts to be bearing on loose stones. There is no connection from the
 posts to stones (Photos 5 and 6). At one post we observed the post to be supported only on one
 corner of the post (Photo 7).
- At the square interior post we observed the base to rotted with split and soft wood (Photo 8).
- We observed the ceiling plaster and ceiling joists are support from the bottom chord of the queen rod truss (Photo 9).
- We observed the roof purlins to be supported at its end on a diagonal strut that bears on the front exterior bearing wall (Photo 10).

The following is a summary the structural requirements based on our IEBC Chapter 11 Historic Buildings code study and structural analysis and a Level 3 work defined in IEBC Chapter 4:

- Massachusetts amendments dated 4/11/14 replace IEBC section 1101.1 in its entirety. There a
 sentence in Massachusetts amendments section 1101.1 that states, "There is no obligation for
 the owners of historic buildings to use the provisions of this chapter". We interpret this to mean it
 is the owner's choice to make structural upgrades to the building but unsafe structural elements
 identified will need to be repaired or replaced.
- IEBC section 1102.2 Dangerous buildings, states "...no work shall be required except as
 necessary to correct identified unsafe conditions." Structurally this means that the insect and
 rotted wood joists, sills, girders and posts of the first floor framing will need to replaced or
 strengthened.
- 3. IEBC section 1106 Structural, subsection 1106.1 requires the structural work to comply with structural provisions for the Level or work classified in IEBC Chapter 4. As we understand the building will undergo a complete restoration/renovation and as such the "Work Area" will exceed 50% of the building floor area, therefore, this will be defined as "Level 3 Work". Structurally it will be required to comply with the structural requirements contained in IEBC Chapters 6, 7 and 8. Based on our IEBC Code Summary Worksheet, the structural requirements for this project will be the following:
 - The existing exterior wall acts as the lateral load resisting system and shall not be altered such that the shear resistance of the walls are not weakened greater than 10 Percent. This means it is highly recommended that the renovations do not add new exterior wall openings.



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- The structural elements of the building should be inspected and measured. All deteriorated structural elements replaced or reinforced. During our field visit we observed first floor framing to be insect and moisture damaged. Our inspection was limited due to access and time and as such there may additional structural elements throughout the building that will need to repaired and/or replaced.
- We analyzed the floor framing we measured to determine the limiting live load capacity of the first floor. The first floor joists have a calculated live load capacity of 85 pounds per square foot (psf) and the first floor 7x7 girders have a calculated live load capacity of 75 psf. The current Massachusetts referenced IBC code requires buildings of public assembly to be designed for a live load of 100 psf. Both the existing floor joists and girders will need structurally upgraded in order to meet the 100 psf live load requirement. Alternately, under the exception listed in IEBC subsection 1106.1, the code official may allow the lower live load capacity to continue provided a floor live load control limit method is implemented.
- 4. IEBC section 1106.2 Unsafe Structural Elements, requires all identified unsafe structural components such as the observed insect damaged and rotted wood joists, sills, girders and posts of the first floor framing to be replaced or strengthened.

If you have any questions or comments, please do not hesitate to contact our office.

Sincerely,

DM BERG CONSULTANTS, P.C.

Thomas G. Heger P.E.

President

Mass Structural P.E. License #35084

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Photo 1



Photo 2

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Photo 3



Photo 4

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Photo 5



Photo 6

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Photo 7



Photo 8

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Photo 9



Photo 10

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Code Analysis worksheet for the 2009 International Existing Building Code with 4/11/14 Massachusetts Amendments

OLD SOUTH MEETING HOUSE FRANKLIN, MASSACHUSETTS

Existing:

The building is approximately a 1500 sf +/-, 1 with a partial 250 sf +/- mezzanine above the entry foyer. There is a no basement only a crawl space below the first floor. The building is constructed entirely of wood. The lateral load resisting system is the wood sheathed exterior shear walls. This building was constructed circa 1856 and is considered historic. The foundation walls are constructed of granite blocks supported on a mortared stone foundation. The building was originally permitted as a church meeting house and is currently vacant,

Planned:

Planned alterations – complete restoration of the building to be used as a public use meeting hall. Restoration work will likely involve removal and replacement of all interior finishes, reroofing the building, new MEP systems. A horizontal addition may be added to the building. There will likely be no change of use from the original permitted building.

Summary

Work Area Compliance Method: This is the selected method for this code review.



Chapter 1: Scope and Administration					
Section	Title	N/A and comments			
101	GENERAL				
101.5.4.0	Mass amendment – Investigation and Evaluation. Subject to Mass amendment 107.6 to the IBC, a written report is required to be submitted to the Building Official.	Yes			
101.9	Cumulative effects.	This building and the proposed restoration/renovation work does not included any planned structural work that would exceed the exception listed therefore 101.9 is not applicable.			
101.9 Exceptions	 Cumulative effects must be considered except when all: Structural work does not involve more than 2% of the total tributary area of horizontal framing members of any existing framed floor or roof. Structural work does not alter shear walls above the foundation. Structural work does not alter columns or diagonal braces. Structural work does not create an opening in any framed floor or roof that has an area more than 2% of the framed floor or roof. Structural work does not alter any floor or roof diaphragm and its connections such that in-plane shear resistance is reduced by more than 5%. Structural work does not remove or reconfigure lateral load resisting frames, or foundations supporting them. 	This building and the proposed restoration/renovation work does not included any planned structural work that would exceed the exception listed therefore 101.9 is not applicable.			



Cna	pter 4: Classification of Wo	rk (Work Area Compliance od)
Section	Title	N/A and comments
402	REPAIRS	
403	ALTERATIONS—LEVEL 1	Level 1 work applies for the proposed renovation/restoration project. Comply with structural requirements of IEBC Chapter 6.
404	ALTERATIONS—LEVEL 2	Level 2 work applies for the proposed renovation/restoration project. Comply with structural requirements of IEBC Chapters 6 and 7.
405	ALTERATIONS—LEVEL 3	Level 3 work applies for the proposed renovation/restoration project. Comply with structural requirements of IEBC Chapters 6, 7 and 8.
406	CHANGE OF OCCUPANCY	N/A no Change in occupancy
407	ADDITIONS	Any new additions will be structurally separated and will not impact the existing building.
408	HISTORIC BUILDINGS	Building is Historic. Comply with structural requirements of IEBC Chapter 11.
409	RELOCATED BUILDINGS	N/A



Ch	Chapter 6: Alterations—Level 1 (Work Area Compliance Method)				
Section	Title	N/A and comments			
601	GENERAL				
601.3	Flood hazard areas				
606	STRUCTURAL	6			
606.1	General				
606.2	Addition or replacement of roofing or replacement of equipment	Comply - replacement of existing roofing.			
606.2 Exceptions	 Dead load increase ≤ 5%? Conventional light-frame construction and dead load increase ≤ 5%? Second layer of roofing ≤ 3 psf? 	 No dead load increase N/A N/A existing roofing will be stripped and replaced 			
606.2.1	Wall anchors for concrete and masonry buildings	N/A not a masonry building			
606.3	Additional requirements for reroof permits				
606.3.1	Bracing for unreinforced masonry bearing wall parapets	N/A no unreinforced masonry parapets			
606.3.2	Roof diaphragms resisting wind loads in high-wind regions 1. Basic wind speed greater than 115 mph and occupancy category type IV	Occupancy Category II and Basic Wind Speed in Franklin is 105 mph. So the existing roof structure			



Chapter 7: Alterations—Level 2 (Work Area Compliance Method)

Section	Title	N/A and comments
701	GENERAL	10/A and comments
701.2	Alteration Level 1 compliance (all Level 2 work must also comply with Level 1 requirements)	Will comply
701.3	Compliance (all new construction must comply with IBC)	Will comply
707	STRUCTURAL	
707.2	New structural members	Any new structural members added within the building will be design per the latest addition of IBC
707.3	Minimum design loads	Use minimum design loads applicable to the time the building was constructed to check existing structural elements.
707.4	Existing structural elements carrying gravity load	
707.4 Excepti	 Stress increase ≤ 5%? Group R? Less than 6 units? And conventional light-frame construction? 	Renovations/restoration will not add additional loads to the existing framing members therefore exception applies.
707.5	Existing structural elements resisting lateral load	Renovations/restoration to the lateral load resisting elements will not increase the demand-capacity greater than 10%, therefore compliance with this section is not required.
707.5.1	Irregularities	No irregularities
707.6	Voluntary lateral-force-resisting system alterations	N/A

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Chapter 8: Alterations—Level 3 (Work Area Compliance Method)

(Required Greater than 50% Work Area)

Section	Title	N/A and comments
801	GENERAL	
801.2	Compliance (all Level 3 work must also comply with Levels 1 and 2 requirements)	Will comply.
807	STRUCTURAL	II II
807.1	General	
807.2	New structural elements	Any new structural members added within the building will be design per the latest addition of IBC.
807.3	Existing structural elements carrying gravity load	Renovations/restoration will not add additional loads to the existing framing members therefore exception applies.
807.4	Structural alterations	
807.4 And 707.5 Excepti	Group R? Less than 6 units? And conventional light-frame construction?	Renovations/restoration to the lateral load resisting elements will not increase the demand-capacity greater than 10%, section 707.5 was not triggered, therefore, compliance with this section is not required.
807.4.1	Evaluation and analysis	Current proposed structural work will be to repair and reinforce substandard and damaged structural framing. Alterations to the lateral load resisting system are not planned at this time.
807.4.2	Substantial structural alterations	Structural alterations will not exceed 30 percent of the total floor area. Compliance to this subsection is not required
807.4.3	Limited structural alteration	Use minimum design loads applicable to the time the building was constructed to check existing structural elements.
807.5 (MA Amend ments	Seismic Hazards (for concrete and masonry buildings only)	NA Building is not a concrete or masonry structure.



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Chapter 9: Change of Occupancy (Work Area Compliance Method) (N/A No Change in Occupancy) Section Title N/A and comments SPECIAL USE AND 902 **OCCUPANCY** Compliance with the building code 902.1 (changes to certain occupancies require full compliance with the IBC) 902.2 **Underground buildings** 907 **STRUCTURAL** 907.1 **Gravity loads** 907.1 **Excepti** Stress increase $\leq 5\%$? on 907.2 Snow or wind loads 907.2 Is new occupancy with higher Excepti importance factor $\leq 10\%$ of the total floor area? on 907.3 Seismic loads Compliance with the IBC level 907.3.1 seismic forces 1. Group M building to start with and is < six stories and in Seismic Design Category A, B, or C? 2. Equivalent level of performance and seismic safety approved by the building official? 907.3.1 3. Is occupancy with the higher Excepti hazard category $\leq 10\%$ of total ons building floor area and not classified as Occupancy Category IV? 4. Unreinforced masonry in Occupancy Category III and in Seismic Design Category A or B? If so may use Appendix A1.

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Access to Occupancy Category IV

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907.3.2



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Ch	apter 10: Additions (Work Arc	
Section	Title	N/A and comments
1001	GENERAL	
1001.1	Scope (additions to comply with IBC; only that portion of existing building impacted by addition needs to comply with IEBC unless otherwise specified in IEBC)	
1003	STRUCTURAL	
1003.1	Compliance with the IBC	
1003.2	Additional gravity loads	
1003.2 Excepti	 Stress increase ≤ 5%? Group R? Less than 6 units? And conventional light-frame construction? 	6
1003.3	Lateral force-resisting system.	
1003.3 Excepti	 Group R? Less than 6 units? And conventional light-frame construction? Lateral-force story shear increase in any story ≤ 10% cumulative 	, and the second se
1003.3.1	Vertical additions	
1003.3.2	Horizontal additions	
1003.3.3	Voluntary addition of structural elements to improve the lateral-force-resisting system	
1003.3.4	Irregularities	
1003.4	Snow drift loads	2
1003.4 Excepti ons	 Element stress increase ≤ 5%? Group R? Less than 6 units? And conventional light-frame construction? 	



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Chapter 11: Historic Buildings (Work Area Compliance Method) (N/A Not a Historic Building)			
Section	Title	N/A and comments	
1101	GENERAL		
1101.2	Report (report to building official required if necessary in the opinion of the code official)	Report will be submitted with this summary	
1101.4	Flood hazard areas (historical buildings are exempt)	NA	
1102	REPAIRS		
1102.1	General (repairs may be made with original or like materials subject to provisions of Ch. 11)		
1102.2	Dangerous Buildings	Correct all identified unsafe structural conditions.	
1106	STRUCTURAL		
1106.1	General (must satisfy requirements for non-historical buildings, except code official may accept operational controls that limit live loads on floors that do not meet IBC LL requirements)	Floors will be structurally evaluated for the current Live Load capacity. The may require reinforcement to meet IBC LL requirements. As an option the code official may accept a lower LL and require a LL limit control method for the building.	
1106.2	Unsafe Structural Elements	Repair and/or replace all identified unsafe structural conditions.	

5. CODES & STANDARDS

This project falls under the jurisdiction of the Town of Franklin. Permitting and oversight for the renovations falls to the local inspectors. Relevant building codes and regulations are listed at the end of this section.

1. **Use Group**: (IBC 302.1, 303.1)

A-3 Assembly (museum):

(Assumed Use Group based on previous occupancy)

2. Construction Type: (IBC 602.0)

Type VB (assumed)

3. Historic Buildings (IEBC 202) (IEBC Ch. 11) The original building was constructed in 1861 (Massachusetts Historical Commission Form B dated March 2011.). The building is not currently listed on the Massachusetts Register of Historic Places. The town may consider nominating the building for inclusion on the register. Once listed, the building would comply with IEBC Ch. 11.

4. Height and Area Limit: (IEBC 1002)

Existing Conditions are as follows:

Height: 33 feet (assumed)

(IBC Table 503) Area: 35'-0" x 52'-4" =

Area: $35'-0" \times 52'-4" = 1,843$ GSF (total building footprint)

Allowable (Assuming A-3 Assembly Use Group)

Height: 1 story, 40 feet

Area: 6,000

5. Occupant Load:

(IBC 1004.0) (IBC Table 1004.1.1) (IBC 1004.7)

Building Occupancy Load: Existing

Space	Max. Floor Area per Occupant	Calculation	Occupants
Vestibule (102)	N/A	N/A	N/A
Meeting Room (103)	1 Occ. per 18" (continuous fixed seating)	85.125" / 18" = 4.72 [4] (14 Rows) = 56 84.125" / 18" = 4.66 [4] (12 Rows) = 48 168.5" / 18" = 9.36 [9] (1 Row) = 9 93.5" / 18" = 5.19 [5] (1 Row) = 5	118
Platform / Altar (104)	1 Occ. per 15 NSF (stages + platforms)	149 NSF / 15 = 10	10
Standing Area (east of platform)	1 Occ. per 5 NSF (standing area)	75 NSF / 5 = 15	15
Standing Area (west of platform)	1 Occ. per 5 NSF (standing area)	65 NSF / 5 = 13	13
Electric Closet (Accessory Area)	N/A		0
Toilet Rooms (Accessory Area)	N/A		0
Mechanical Mezzanine (Accessory Area)	1 Occ. per 300 GSF	192 SF / 300 GSF = 1	1
Total			157 Existing Occupants

Building Occupancy Load: Proposed Allowable*

Space	Max. Floor Area per Occupant			
Vestibule (102)	N/A	N/A	N/A	
Meeting Room (103) (excludes Vestibule (103A)	1 Occ. per 5 NSF (standing area)	970 NSF / 5 = 194	194**	
Platform / Altar (104)	1 Occ. per 15 NSF (stages + platforms)	149 NSF / 15 = 10	10	
Electric Closet (Accessory Area)	N/A		0	
Toilet Rooms (Accessory Area)	N/A		0	
Mechanical Mezzanine (Accessory Area)	1 Occ. per 300 GSF	192 SF / 300 GSF = 1	1	
Total	7		205 Proposed Allowable Occupants	

Note:

6. Hazardous Index Rating:

(IEBC Table 912.4)

3 (A-Assembly)

7. Egress:

Required Egress Width per Occupant: (IEBC 1301.6.11.1) (IEBC Table 1301.6.11) (IBC 1005.1) .3 in stairs (non-sprinklered buildings)

.2 in doors (non-sprinklered buildings)

Existing:

157 occ. x 0.2= 31.4 inches Proposed Allowable:

205 occ. x 0.2= 41 inches

8. Exits or Exit Access Doorways from Spaces:

(IBC Table 1015.1)

Required: the maximum occupant load allowable for spaces with one exit or exit access doorway for an A Use Group is 49.

Existing: The existing occupancy load (157 occupants) exceeds the maximum allowable.

<u>Proposed:</u> The proposed allowable occupancy load (205 occupants) exceeds the maximum allowable; therefore, a second means of egress will be required.

9. Exit and Exit Access Doorway Arrangements:

(IBC 1015.2.1)

Required: Exit access doorways must be placed a distance apart equal to not less than one-half of the length of the overall diagonal dimension of the building or area to be served measured in a straight line between exit doors or exit access doorways.

^{*}Allowable Occupancy Load Calculation is based on the assumption that the building's existing Use Group Classification of A-3 Assembly will remain unchanged and that there will be no fixed seating

^{**} Proposed Allowable Occupancy Load is based on schematic design provided for Compliance Alternative Option No. 2

Existing: the existing pair of exit access doorways from the Meeting Room to the Vestibule does not meet the remoteness criteria.

Proposed: inclusion of a second means of egress (as required per 1015.1) will allow for compliance with remoteness criteria.

10. Travel Distance: (IBC 1016 and Table 1016.1)

Required: 200 feet (non-sprinklered buildings)

Existing: Building is less than 50 feet wide in either direction.

11. Minimum Number of Exits:

(IBC Table 1021.1)

Required: 2 exits for 1-500 occupants

Actual: 2 exits

(IBC 1022.1)

12. Stair Fire Resistance Rating: 1-hour (non-sprinklered buildings, connecting less than four

stories)

(IEBC 1103.7)

For buildings which can be classified as historic in accordance with IEBC Ch. 11, the required 1-hr. rating need not be provided where the existing wall and ceiling finish is wood or metal lath and plaster.

(780 CMR 1012)

13. Minimum Guard Rail Height: 42" where open sided walkways, mezzanines, platforms,

stairways, ramps and landings are located more than 30" above the

floor or grade below

Existing:

There are no existing guard rails.

The existing portico does not exceed 30"; proposed ramp would be

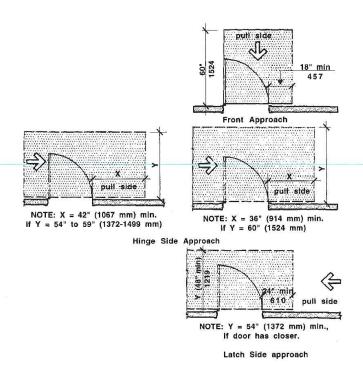
approximately 24" above grade.

14. Accessibility:

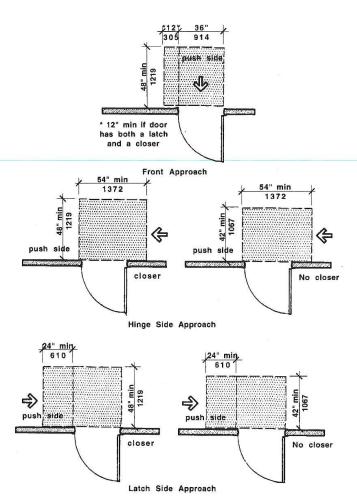
(521 CMR 26.00)

a. Push/Pull Clearances: Push and Pull Side Clearance Diagrams from the current edition

of 521 CMR



Maneuvering Clearance at Doors (Pull Side) Figure 26d



Maneuvering Clearance at Doors (Push Side) Figure 26e

b. Hardware: (521 CMR 26.11) Handles, Pulls, Latches, locks, and other operating devices on accessible doors shall have a shape that is easy to operate with one hand and that does not require tight grasping, tight pinching, or twisting of the wrist to operate. Lever-operated mechanisms, pushtype mechanisms, and U-shaped handles are acceptable designs.

Existing: Existing door hardware does not comply with current MAAB requirements.

Ramps: (521 CMR 24.2.1) The maximum slope of a ramp shall be 1:12.

Existing:

There are no existing ramps.

Any new ramp construction shall comply with 521 CMR 24.2.1

d. Toilet Rooms: (521 CMR 30.1.a.) In each adult toilet room, at least one water closet and one sink shall be accessible to persons in wheelchairs, or a separate accessible unisex toilet room shall be provided at each location.

Existing: Existing first toilet rooms do not conform to current MAAB requirements and shall be made to comply.

RELEVANT CODES AND REGULATIONS

IBC 2009 International Building Code **IEBC** 2009 International Existing Building Code

780 CMR Massachusetts Amendments to the International Building Code, 8th Edition 521 CMR Massachusetts Architectural Access Board (MAAB) Rules and Regulations

2012 International Energy Conservation Code **IECC**

Americans with Disabilities Act ADAAG 527 CMR 12 2011 Massachusetts Electrical Code NFPA 72 2010 National Fire Alarm Code

NFPA 101 Life/Safety Code

248 CMR Massachusetts Fuel, Gas and Plumbing Code

2009 International Mechanical Code IMC

ASHRAE Std 62 ASHRAE Standard 62 MGL

Massachusetts General Laws

END OF SECTION

6. RECOMMENDATIONS

Evaluation of Alternative Compliance Options

Early meetings with the town included discussions on the advantages and disadvantages of placing the building on the Massachusetts State Register of Historic Places. Initiating the process for placing the building on the state register would require the submission of an updated "Survey B" Form to the Massachusetts Historical Commission (MHC) for review and approval. A survey B form was completed in March 2011 but never submitted to the MHC (Appendix B).

An advantage of having the structure listed on the state register is that renovations would not require full compliance with the code for new construction. In accordance with IEBC Chapter 11: Historic Buildings, existing conditions would be maintained, at a minimum, to their current level of compliance, or conditions would be improved as required in accordance Chapter 11.

While the schematic designs presented for both Alternative Compliance Option Nos. 1 and 2 could be considered viable options for addressing existing code and life/safety issues, it was agreed with the town that Alternative Compliance Option No. 1 would have a greater impact on the overall historic appearance of the building. Unless a variance is obtained from the Massachusetts Architectural Access Board (MAAB), in order to meet MAAB requirements, the main entrance will need to be made accessible. This would require raising the level of the north portico to meet the 1st floor level. Additional stairs would be needed and the original Doric columns would be affected. A new ramp along the west elevation would provide an accessible route to the raised portico. A new second means of egress, including new door and exit stairs, would be constructed at the southeast corner of the building.

The schematic design for Option No. 2 assumes listing the building on the state's historic register. This scheme would allow for the second entrance to be used as the accessible entrance for the building which is allowable per IEBC 1104.1.3. In addition to bringing the building into compliance with code and life/safety requirements, Option No. 2 would be less costly than Option No. 1. During subsequent discussions with the town, the consensus was that placing the building on the state register may be an option to explore further. As such, it was agreed to have the cost estimate reflect Option No. 2 and to provide separate line items reflecting the added costs associated with Option No. 1.

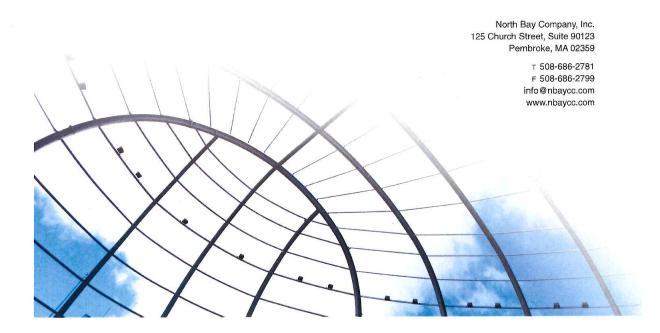




South Franklin Meeting House Renovations 762 Washington Street, Franklin, MA Schematic Design Cost Estimate

May 11, 2015

Architect: Civitects, PC Prepared For: Town of Franklin





Project: South Franklin Congregational Church **Prime Architect/Engineer:** Civitects, PC

Cost Estimator: North Bay Company, Inc., 125 Church St., Unit 90-123, Pembroke, MA

Date: May 11, 2015

STUDY PHASE COST ESTIMATE

INTRODUCTION

PROJECT DESCRIPTION:

Renovation to existing church/meeting house.

PROJECT PARTICULARS:

Schematic drawings dated March 9, 2015 prepared by Civitects, PC

Quantities are from direct takeoff of items, when possible, according to ASPE recommended Standard Estimating Practice

PROJECT ASSUMPTIONS:

Construction will be phased to allow each trade to perform their work with least amount of impact on other trades and occupants. The project will be publicly bid and performed by a Prime General Contractor certified by DCAM using prevailing wage rates.

Costs are based on a competitive bid process in all trades and sub-trades.

Unit costs and labor are based on current construction costs in Franklin, MA.

General Requirements value covers bonding and insurances for the GC.

PROJECT EXCLUSIONS:

Escalation beyond 1 year from now for completion of bid documents
Design Fees and other soft costs
Project Administration
Site or existing conditions surveys
Window replacement
Roof replacement
Geotechnical Engineering
Hazardous materials survey, report and removal
Police detail and street/sidewalk permits
Printing and Advertising
Testing and Inspections



Project: South Franklin Congregational Church

Date: May 11, 2015

STUDY PHASE COST ESTIMATE

GRAND SUMMARY

	TOTAL DIRECT COSTS	\$ 330,134
ik-	Y	
	GENERAL REQUIREMENTS (10%)	\$ 33,013
	OVERHEAD AND PROFIT (15%)	\$ 54,472
	TOTAL - DIRECT COST AND OH&P	\$ 417,620
	CONTINGENCY (15%)	\$ 62,643
	BOND & INSURANCE (1%)	\$ 4,803
	ESCALATION (1 year to mid-point of construction) (5%)	\$ 24,253
	TOTAL - SCHEMATIC DESIGN ESTIMATE	\$ 509,319
	TOTAL \$/SF	\$ 350.77
	ALLOWANCE PORTICO MODIFICATIONS	\$ 28,800.00



Project: South Franklin Congregational Church

Date: May 11, 2015

STUDY PHASE COST ESTIMATE

MAIN SUMMARY

DIV.	ELEMENT		TOTAL SF TOTAL COST		
02	EXISTING CONDITIONS	\$	23,145	COST / SF 15.94	
03	CONCRETE	\$	17,896	12.33	
04	MASONRY	\$		-	
05	METALS	\$	23,450	16.15	
06	WOOD, PLASTICS AND COMPOSITES	\$	14,653	10.09	
07	THERMAL AND MOISTURE PROTECTION	\$	9,138	6.29	
5	OPENINGS	\$	10,215	7.04	
09	FINISHES	\$	24,160	16.64	
10	SPECIALTIES	\$	1,600	1.10	
11	EQUIPMENT	\$	641		
12	FURNISHINGS	\$			
14	CONVEYOR SYSTEMS	\$		-	
21	FIRE SUPPRESSION	\$			
22	PLUMBING	\$	31,300	21.56	
23	HVAC	\$	39,906	27.48	
26	ELECTRICAL	\$	45,123	31.08	
27	COMMUNICATIONS	\$	- :		
28	ELECTRONIC SAFETY AND SECURITY	\$	6,970	4.80	
31	EARTHWORK	\$	20,447	14.08	
32	SITE IMPROVEMENTS	\$	21,133	14.55	
33	UTILITIES	\$	41,000	28.24	
	TOTAL DIRECT COSTS	\$	330,134	227.37	
	ALLOWANCE: PORTICO MODIFICATIONS	\$	28,800.00		



Project: South Franklin Congregational Church

Date: May 11, 2015

STUDY PHASE COST ESTIMATE

DIRECT COST DETAIL

DIV.	ELEMENT	QTY	UNIT	UI	NIT COST	SUBTOTAL	TOTAL
02	EXISTING CONDITIONS						\$ 23,145
	Shoring and jacking	1	S	\$	8,000.00	\$8,000	
	Remove existing timber posts	15 (ea	\$	110.00	\$1,650	
	Remove existing deteriorated wood girder, 7x7	34	f	\$	35.00	\$1,190	
	CONTINGENCY (15%)	15 (ea	\$	400.00	\$6,000	
	Remove existing 1st floor insulation	1,452	if	\$	3.00	\$4,356	***************************************
	Remove existing window	1 (ea	\$	90.00	\$90	
	Demolish portion of exterior wall below window	12 s	sf	\$	8.00	\$96	
	Partially demo existing plaster walls, assume 9'h	180 s	if	\$	5.00	\$900	
	Remove existing doors, frames, thresholds	2 6	ea	\$	120.00	\$240	
	Remove existing panel doors	1 [or	\$	70.00	\$70	
,	Demolish existing wood staircase	1 f	İt	\$	400.00	\$400	
	Remove existing exterior handrail	3.5	f	\$	8.00	\$28	***************************************
	Remove existing wood flooring	50.0	if	\$	2.50	\$125	
03	CONCRETE						\$ 17,896
03 30	Cast-In-Place Concrete						
	Concrete Footings at Replaced Posts, assume 2'x2'x1'						-
	Form and strip	120 9	FCA	\$	12.00	\$ 1,440.00	
	Place and finish	18 (CY	\$	398.00	\$ 7,164.00	
	Concrete	18 (ΣY	\$	119.00	\$ 2,142.00	
,	Rebar	1.6 7	N.	\$	2,000.00	\$ 3,150.00	
	Pump	1.0 E	Α	\$	1,500.00	\$ 1,500.00	
	Concrete footings at ramp	1.0 L	.S	\$	2,500.00	\$ 2,500.00	
	00 ENGROUND AND AND AND AND AND AND AND AND AND A				uco (1975) (1975		: 19 799 REREE CAUCACACACACACACACACACACACACACACACACACA



DIV. 04	ELEMENT MASONRY	QTY U	VIT	UNIT COST	SUBTOTAL \$	TOTAL -
05	METALS				\$	23,45
05 12	Structural Steel Framing					
	6"x6"x1/4" Steel Tube Columns, approx 3' (assumed)	15.00 EA	\$	980.00	\$14,700	
	Column base plates	15 EA	\$	80.00	\$1,200	
	Column top plates/wood connectors	15 EA	\$	250.00	\$3,750	
05 50	Miscellaneous Metals					
	Ships ladder	1 EA	\$	3,800.00	\$3,800	
06	WOOD, PLASTICS AND COMPOSITES				\$	14,65
06 05	Rough Carpentry					
	Wood framed ramp	180 SF	\$	36.00	\$6,480	
	Wood guardrail w/ handrail	41 LF	\$	170.00	\$6,970	
	Wall mounted handrail	31 LF	\$	36.00	\$1,116	
	Misc. blocking at walls (ALLOWANCE)	25 BF	\$	3.46	\$87	
7	THERMAL AND MOISTURE PROTECTION				\$	9,13
07 21	Thermal Insulation					
	Fibergalss batt insulation, underside of 1st fl (difficult conditions)	1,452 SF	\$	5.26	\$7,638	
07 52	Roofing and Flashing					
	New architectural asphalt shingles & flashing (ALLOWANCE)	N.I.C.				
	Roof repair at plumbing vents	1 ls	\$	1,200.00	\$1,200	
07 84	Firestopping					
	ALLOWANCE	1 LS	\$	300.00	\$300	
08	OPENINGS				\$	10,21
08 10	Doors and Frames					
	Interior wood door, frame & hardware, single 3'x6.5' w/ woo frame & hardware		¢	1,850.00	\$3,700	

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DIV.	ELEMENT	QTY	UNIT	U	NIT COST	SUBTOTAL	 TOTAL
	Interior wood door, frame & hardware, double 2'x7' Exterior wood door, frame & hardware, single 3'x7' w/3'x4'	1	EA	\$	1,850.00	\$1,850	
***********	transom	1	EA	\$	2,105.00	\$2,105	 ***************************************
	Window replacement (ALLOWANCE)	N.I.C.					
	Access door at toilet rm floor	1	EA	\$	2,560.00	\$2,560	 *********
00	FINISHES						24 450
09							\$ 24,160
09 21	Gypsum Wallboard Systems						
	3-5/8" LGMF with 1/2" GWB both sides	396	SF	\$	8.00	\$3,168	
09 50	Gypsum Board Ceilings						
	GWB ceilings (assume at Toilet rooms & Vestibule)	310	SF	\$	10.00	\$3,100	
	<i>&</i>						
09 60	Flooring						
	Carpet at Vestibule (minimum quantity)	200	SF	\$	10.00	\$2,000	
	Ceramic tile with cove base, at Toilet Rm floors	110	SF	\$	20.00	\$2,200	
09 65	Resilient Wall Base						
	Resilient wall base	20	LF	\$	4.55	\$91	
09 91	Painting and Finishing						
	Paint steel columns	15	EA	\$	150.00	\$2,250	
	Paint new GWB walls	792	SF	\$	1.40	\$1,109	
	Paint new GWB ceilings & soffits	310	SF	\$	1.60	\$496	
	Paint doors & frames	4	EA	\$	90.00	\$360	
	Paint interior throughout - Allowance	1,500	SF	\$	1.60	\$2,400	
	Paint ceilings, existing	2,210	SF	\$	1.60	\$3,536	
	Paint existing flooring	1,150	SF	\$	3.00	\$3,450	
	Paint exterior	N.I.C.					

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DIV.	ELEMENT	QTY UN	IT U	INIT COST	SUBTOTAL	TOTAL
10	SPECIALTIES	periotes (c)			\$	1,600
10 81	Toilet Accessories					
	Toilet accessories	2 EA	\$	800.00	\$1,600	
11	EQUIPMENT				\$	•
12	FURNISHINGS				\$	
14	CONVEYING EQUIPMENT				\$	- F
21	FIRE SUPPRESSION				\$	
22	PLUMBING				\$	31,300
	Demo existing water toilets	2 EA	\$	300.00	\$600	
	Demo existing lavatories	2 EA	\$	250.00	\$500	
	Distribution piping to new toilet rooms (allowance)	1 LS	\$	7,500.00	\$7,500	
	Sanitary piping to new toilet rooms (allowance)	1 LS	\$	4,800.00	\$4,800	
	Vent stacks to roof	70 LF	\$	44.00	\$3,080	
	Water closet	2 EA	\$	2,100.00	\$4,200	
	Lavatory	2 EA	\$	1,350.00	\$2,700	
	Domestic electric point of use water heater	2 EA	\$	2,200.00	\$4,400	
	Natural gas piping	80 LF	\$	44.00	\$3,520	
23	HVAC		6.48		\$	39,906
	Remove existing electric cabinet unit heaters Air handling unit, gas heat, elec cooling, 3,000 CFM, 7.5 ton	1 LS	\$	750.00	\$750	
	with economizer	1 EA	\$	15,000.00	\$15,000	
	Condensing unit	1 EA	\$	3,000.00	\$3,000	
	Refrigerant piping	100 LF	\$	32,00	\$3,200	
	Electric baseboard heating (ALLOWANCE)	1 LS	\$	2,500.00	\$2,500	
	Toilet exhaust fans, ducting and venting	2 EA	\$	800.00	\$1,600	
	Temperature control system	1 LS	\$	3,000.00	\$3,000	

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	Ductwork supply, return, exhaust distribution, diffusers and grilles	1,452 SF	\$ 3.00	\$4,356	
	gines	1,432 35	 3.00	\$4,550	
	Exhaust fan	1 EA	\$ 1,500.00	\$1,500	
	Controls	1 LS	\$ 5,000.00	\$5,000	
26	ELECTRICAL			\$	45,12
6 01	Selective Electrical Demolition		 		
	Disconnect existing light fixtures, make safe for demo	2 EA	\$ 155.00	\$310	
6 07	Equipment Wiring, Motor Circuits		 		
	Mechanical equipment connections (Allowance)	1 LS	\$ 4,500.00	\$4,500	
6 24	Infrastructure and Panelboards		 		
	Existing to remain	•••••	\$ -	\$0	•••••
6 33	Wiring & devices	1,575	\$ 10.00	\$15,750	
6 50	Lighting		 		
	Electrical lighting fixtures and branch wiring (Allowance)	1,575 SF	\$ 7.50	\$11,813	
	Emergency Battery Pack Lighting (Allowance)	2 EA	\$ 480.00	\$960	
	Exit Signs (Allowance)	5 EA	\$ 300.00	\$1,500	
	Site lighting	1 LS	\$ 5,000.00	\$5,000	
	Exterior building mounted lighting at ramp (Allowance)		 		
 	Lighting controls and switching	1 EA 1 LS	\$ 290.00 5,000.00	\$290 \$5,000	
27	COMMUNICATIONS			\$	-
28	ELECTRONIC SAFETY AND SECURITY			\$	6,97
8 31	Fire Detection and Alarm		 ************		
	Fire alarm and devices	1,452 SF	\$ 4.80	\$6,970	
31	EARTHWORK			\$	20,44

Page 8 of 9



DIV.	ELEMENT	QTY	UNIT	U	INIT COST	SUBTOTAL	TOTAL
(********	Structural fill		9 CY	\$	600.00	\$5,333	
	Backfill and compaction		9 CY	\$	625.00	\$5,625	
,	Trucking & disposal		1 LS	\$	600.00	\$600	
82							
32	EXTERIOR IMPROVEMENTS	14/ W		M		\$	21,133
	New asphalt paving Allowance	56	7 SY	\$	32.00	\$18,133	
	New driveway at Colt Rd Allowance	NIC					
	Clear&Grub/Tree removal	NIC					
	Parking lot striping and signage allowance		1 LS	\$	3,000.00	\$3,000	******************
	Fence around pump house w/ 6' of clearance	NIC					
33	UTILITIES		i i i			\$	41,000
·	New natural gas service from street to building		1 LS	\$	6,000.00	\$6,000	
	New gas meter	By Utilit	у			\$0	*****************
	Replace exising septic system		1 LS	\$	35,000.00	\$35,000	
	TOTAL DIRECT COSTS					\$	330,134
	Alternate: Portico Modifications						
	Raise elevation of portico by replacing deck and adding riser (ALLOWANCE)		1 LS	\$	15,000.00	\$15,000	
102204444	Relocate granite step		5 LF	\$	120.00	\$4,200	
	Wood framed stair at rear for 2nd means of egress, 4R, landing and railings		1 LS	\$	9,600.00	\$9,600	
	Total Alternate:					\$28,800	

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: FRN.325

Historic Name: Union Congregational Parish of South Franklin

Common Name: First Congregational Parish Church

Address: 762 Washington St

City/Town: Franklin

Village/Neighborhood: South Franklin - Wadsworth

Local No: 305: 322-050

Year Constructed:

Architect(s):

Architectural Style(s): Greek Revival

Abandoned or Vacant; Church; Museum Use(s):

Significance: Architecture; Community Planning; Education; Religion

Area(s): frn.e: South Franklin

Designation(s):

Roof: Asphalt Shingle **Building Materials(s):** Wall: Wood Clapboard; Wood Foundation: Stone, Uncut

The Massachusetts Historical Commission (MHC) has converted this paper record to digital format as part of ongoing projects to scan records of the Inventory of Historic Assets of the Commonwealth and National Register of Historic Places nominations for Massachusetts. Efforts are ongoing and not all inventory or National Register records related to this resource may be available in digital format at this time.

The MACRIS database and scanned files are highly dynamic; new information is added daily and both database records and related scanned files may be updated as new information is incorporated into MHC files. Users should note that there may be a considerable lag time between the receipt of new or updated records by MHC and the appearance of related information in MACRIS. Users should also note that not all source materials for the MACRIS database are made available as scanned images. Users may consult the records, files and maps available in MHC's public research area at its offices at the State Archives Building, 220 Morrissey Boulevard, Boston, open M-F, 9-5.

Users of this digital material acknowledge that they have read and understood the MACRIS Information and Disclaimer (http://mhc-macris.net/macrisdisclaimer.htm)

Data available via the MACRIS web interface, and associated scanned files are for information purposes only. THE ACT OF CHECKING THIS DATABASE AND ASSOCIATED SCANNED FILES DOES NOT SUBSTITUTE FOR COMPLIANCE WITH APPLICABLE LOCAL, STATE OR FEDERAL LAWS AND REGULATIONS. IF YOU ARE REPRESENTING A DEVELOPER AND/OR A PROPOSED PROJECT THAT WILL REQUIRE A PERMIT, LICENSE OR FUNDING FROM ANY STATE OR FEDERAL AGENCY YOU MUST SUBMIT A PROJECT NOTIFICATION FORM TO MHC FOR MHC'S REVIEW AND COMMENT. You can obtain a copy of a PNF through the MHC web site (www.sec.state.ma.us/mhc) under the subject heading "MHC Forms."

> Commonwealth of Massachusetts Massachusetts Historical Commission 220 Morrissey Boulevard, Boston, Massachusetts 02125 www.sec.state.ma.us/mhc

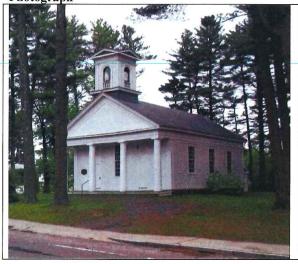
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Monday, November 03, 2014 at 12:37 PM

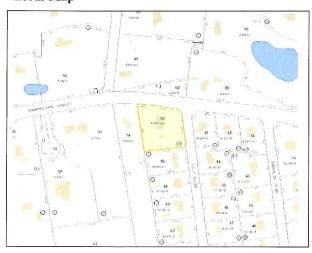
FORM B - BUILDING

MASSACHUSETTS HISTORICAL COMMISSION MASSACHUSETTS ARCHIVES BUILDING 220 MORRISSEY BOULEVARD BOSTON, MASSACHUSETTS 02125

Photograph



Locus Map



Recorded by: Earnon McCarthy Earls, Associate Member

Organization: Franklin Historical Commission

Date (month / year): March 2011

Assessor's Number USGS Quad Area(s) Form Number

322-050-000-000 E FRN.325

Town/City: Franklin

Place: (neighborhood or village): South Franklin

a.k.a. Wadsworth

Address: 762 Washington Street

Historic Name: Union Congregational Parish of South

Franklin / Old South Meeting House

Uses: Present: vacant, former town museum

Original: Congregationalist meeting house

Date of Construction: 1861

Source: Horace Mann Museum; Previously Union Evangelical Meeting

House- Minutes of member.

Style/Form: Greek Revival

Architect/Builder: unknown

Exterior Material:

Foundation: stone

Wall/Trim: wood

Roof:

asphalt shingles

Outbuildings/Secondary Structures: small unrelated structure houses water department apparatus

Major Alterations (with dates):

addition of running water and toilet, probably early 20th century

Condition: Excellent

Moved: no ⊠ yes □ Date:

Acreage: 0.769 acres

Setting: residential area

RECEIVED

JUN 06 2011

MASS. HIST. COMM.

FRANKLIN

762 WASHINGTON ST

MASSACHUSETTS HISTORICAL COMMISSION

220 Morrissey Boulevard, Boston, Massachusetts 02125

Area(s) Form No.

> 325 Ε

Recommended for listing in the National Register of Historic Places. If checked, you must attach a completed National Register Criteria Statement form.

Use as much space as necessary to complete the following entries, allowing text to flow onto additional continuation sheets.

ARCHITECTURAL DESCRIPTION:

Describe architectural features. Evaluate the characteristics of this building in terms of other buildings within the community. A Greek revival, Congregationalist church, and the oldest church building in the Town of Franklin. The Union Evangelical Meeting House is part of an agrarian legacy left by the villagers of Wadsworth and the greater South Franklin area. and a substantially unchanged landmark in a city that has seen extensive growth and property development. The building is rectangular, approximately two-stories with a large attic and a bell tower. It is not ornate except for the five Doric columns at its front. There are no similar structures in the community.

HISTORICAL NARRATIVE

Discuss the history of the building. Explain its associations with local (or state) history. Include uses of the building, and the role(s) the owners/occupants played within the community.

Planned by the Congregationalist community of South Franklin in 1856, a committee prepared minutes in 1857 outlining the plan for a community meeting house and religious center. The new building would fill a niche. The devout Congregationalists of South Franklin were separated by several miles from the main Congregationalist church in the center of Franklin, and during inclement weather, or harvest seasons it could be difficult to attend far off church services.

The center of South Franklin was located less than a mile away from the planned meetinghouse, where a small village (usually referred to as Wadsworth, but also more broadly as South Franklin) had taken shape. The village took its name from the Wadsworth family, who moved from Milton, Massachusetts to Franklin in the early 1800s and soon established a small farming village, that later hosted a railroad station on New York, New Haven & Hartford Railroad's Midland Division, a post office, blacksmith shop, village store, and even a watch repair shop, owned by a member of the Wadsworth family who contracted poliomyelitis (rendering him partially paralyzed).

Wadsworth, and the Union Evangelical Meeting House were associated with the 'flowering of New England.' During the late 1850s, a one-room school house between Wadsworth and the Meeting House hosted a "Lycaeum" and debating society. George Wadsworth, a member of the Wadsworth family who lived from the 1830s until 1906 kept a detailed day-to-day journal of Franklin agricultural life and society between 1857, culminating shortly after the blizzard of 1888. Wadsworth describes farming practices, and gives a detailed portrait of the farm country of South Franklin and its religious life, as well the development of the village of Wadsworth.

The Union Evangelical Meeting House continued as a center of Franklin life far into the 20th century, and a site for lively debate. Debates were commonly held when religious services were not in session, and farmers are documented as having debated controversial topics such as national prohibition of alcohol, in the Franklin Sentinel (community newspaper, 1878-1978). The church was spared significant damage in the hurricane of 1938, although Franklin's main Congregationalist church became the Federated Church as the Baptist and Congregationalist communities were merged following the destruction of the Baptist church.

FRANKLIN

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Citing the declining Congregationalist community in Franklin, and the costs of maintaining the Meeting House, the Franklin Federated Church began seeking new uses for its building in the early 1970s. Services continued at the Union Evangelical Meeting House until 1972, at which point the Federated Church, supervising the Meeting House, reached an agreement to deed the building to the Town of Franklin, on condition that it be used solely as a religious meeting center, or as a community museum. In the run up to the national and town bicentennials, the Franklin Historical Commission was formed and occupied the building, that was renamed the Horace Mann Museum. A wide of artifacts, documents, and photographs were preserved here and placed on display, and the museum opened to the public in 1975.

In 2007, the museum was closed to the public in preparation for an expected move to a more accessible location. After the former town hall (built 1842, rebuilt 1916), later senior center, was closed, the Franklin Historical Commission was allowed to use the new building to house its collection. Museum artifacts were moved in 2010. The Franklin Historical Commission continues to oversee the preservation of this building, and archive photographs, and written records of the Meeting House, including the complete Union Sunday School library collection. The Union Evangelical Meeting House has never been extensively remodeled, after the installation of electric lighting, heating and plumbing systems. Today, the Meeting House is the oldest church in Franklin, and still possesses all the functional elements of a Congregational church included pews, a bell, bell rope, and steeple.

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Blake, Mortimer. A History of the Town of Franklin, Mass.: From its Settlement to the Completion of its First Century. Franklin: Committee of the Town. 1878. Print.

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National Register of Historic Places Criteria Statement Form

Check all that apply:			
☐ Individually eligible ☐ Eligible only in a historic district			
☐ Contributing to a potential historic district ☐ Potential historic district			
Criteria:			
Statement of Significance by <u>James McCarthy Earls</u> The criteria that are checked in the above sections must be justified here.			

The Union Evangelical Meeting House, located in South Franklin, Massachusetts is an example of 1850s American Greek revival architecture. The Meeting House is a unique architectural reminder of the early agricultural and Congregationalist heritage of Franklin.

MASSACHUSETTS HISTORICAL COMMISSION

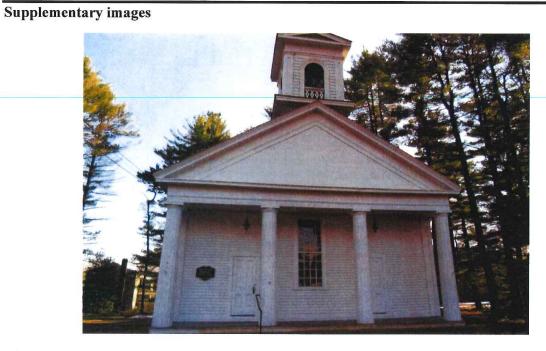
220 Morrissey Boulevard, Boston, Massachusetts 02125

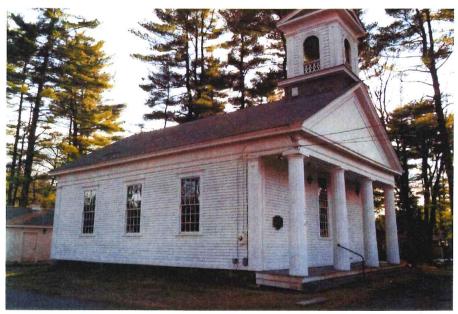
FRANKLIN

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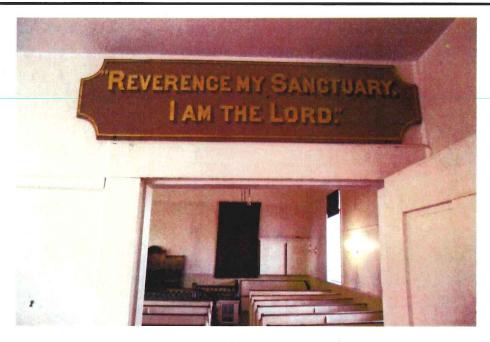
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Area(s)

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View of Old South Meeting House, Franklin from the northeast, across Washington St., with Colt Rd. intersection in foreground.



Same view as above, but closer ...

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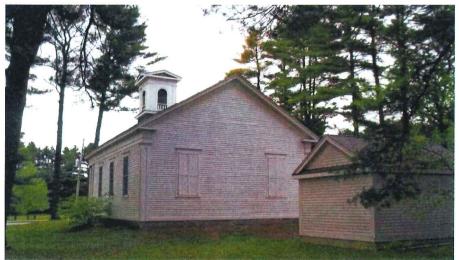
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View of Old South Meeting House from northwest, Washington St. in foreground.



View of rear of structure looking toward north. Recent outbuilding from late 1990s is to right.

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Close view of east side of Old South, looking toward Washington St and the north.

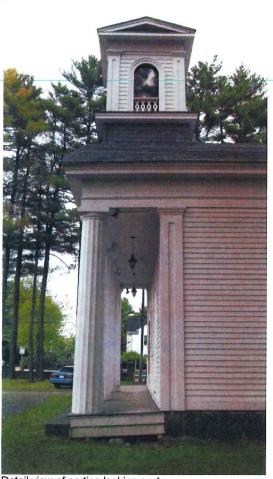
FRANKLIN

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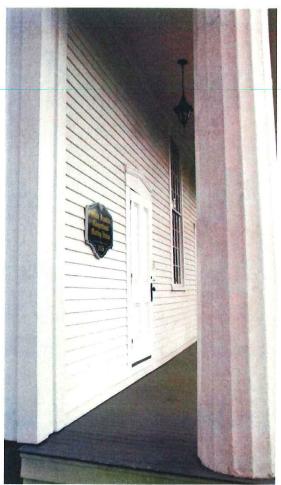
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Detail view of portico looking east



Detailed view of portico looking west

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Front foyer with bell rope at left

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View looking up stairs in attic at interior of steeple, bell and bell rope



Attic interior looking toward belfry.

FORM B - BUILDING

MASSACHUSETTS HISTORICAL COMMISSION Office of the Secretary, State House, Boston



4. Map. Draw sketch of building location in relation to nearest cross streets and other buildings. Indicate north.

	Boad	\leftarrow	M
		church	
ふ	I Blake Ho	usc	
Grove			

DO NOT	WRITE I	N THIS	SPACE
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Tra	Allin	1 146)
MHC Ph	oto ho		

(over)

In Area no. Form no.

1.	Town Franklin			
	Address Washington Street			
	Name First Congregational Parish			
	Present use Franklin Historical			
	Commission Property			
	Present owner Franklin			
2				
υ.	Description:			
	Date 1856			
	Source Blakes History P. 97			
	Style Country Greek Revival			
	Architect			
	Exterior wall fabric wood			
	Outbuildings (describe) NONE			
	Other features <u>Steeple</u>			
	*			
	Altered Date			
	Moved No Date			
5.	Lot size:			
	Less than one acreOver one acre			
	Approximate frontage			
	Approximate distance of building from street			
	50 feet			
6,	Recorded by James C. Johnston Jr.			
	Organization Franklin Historical Comm			
	Date May 10, 1973			

JUN 28 1973

7.	Original owner (if known) _ C ou	neil of the First	Parish	
	Original use Church		, -	
	Subsequent uses (if any) and dates Historica Commission			
8.	. Themes (check as many as applicable)			
	Aboriginal Agricultural Architectural The Arts	Conservation Education Exploration/ settlement	Recreation Religion Science/ invention	<u>~</u>
	Commerce Communication Community development	Industry Military Political	Social/ Humanitarian Transportation	

9. Historical Significance (include explanation of themes checked above)

the Church was founded; because; travel of three miles to the center of the town to the other church was too far for comfort of the citizens of South Franklin. It is a vice example of a country interpretation of Greek Revival, and reflects the Faith and Puritan Ethic intrinsic to the people who built it for their worship. It will hold a collection of historical objects connected with the history of the town and its relation ship to common wealth and ration thus serving both educational and humanitarian needs existing in the community.

 Bibliography and/or references (such as local hist early maps, etc.)

Blake, Mortimer. History



Original yellow form: Eligibility file FRN.325 Copies: Inventory form Town file(w/corresp.) Macris NR director _ Community: Franklin MHC OPINION: ELIGIBILITY FOR NATIONAL REGISTER Date Received: 6 June 2011 Date Due: Date Reviewed: 15 June 2011 Type: x Individual _District (Attach map indicating boundaries) Name: Union Evangelical Meeting House Inventory Form: FRN.325 Address: 762 Washington St Requested by: Eamon McC. Earls. LHC Action: __Honor ITC Grant _R&C Other: Agency: Staff in charge of Review: **INDIVIDUAL PROPERTIES** DISTRICTS x Eligible Eligible _ Eligible, also in district Ineligible Eligible only in district More information needed Ineligible More information needed **CRITERIA:** <u>x</u>A __B _x_C _D LEVEL: x Local __State National STATEMENT OF SIGNIFICANCE by Phil Bergen

Relatively preserved modest mid 19th century Congregational meetinghouse, reflecting the rural area in which it sat, the property was built as a relief for South Franklinites removed from the town center. Oldest church building in town. Rectangular, with preserved bell and steeple, it has four Doric columns on its front façade.

The church was closed in 1972, donated to the town, and used as museum until 2007. It is currently vacant.

Additional photos show the outside on all sides, attic and bell, and provide some more information, although outbuildings are not satisfactorily documented. Although vacant, building appears to be in good condition.

Original yellow form: Eligibility file Copies: Inventory form Town file(w/corresp.) Macris NR director ___

Community: Franklin

MHC OPINION: ELIGIBILITY FOR NATIONAL REGISTER

		- Marian		7	
Date Received:	9 May 11		Date Reviewed	1: 18 May 11	
Type:	_x_Individual	_Distri	ct (Attach map inc	dicating boundaries)	
Name: Union E	Evangelical Mee	eting House	Inventory Form:	FRN.325	
Address: 762 W	Vashington Stre	et			
Requested by: 1	Eamon Earls, L	НС			
Action:Ho	onor _ITC	Grant	_R & C	_Other:	
Agency:		Staff in char	ge of Review:		
INDIVIDUAL	PROPERTIES	S	DISTRICTS		
Eligible Eligible, also Eligible only Ineligible _x More inform	in district		Eligible Ineligible More info	rmation needed	
CRITERIA:		_A	_B	C	_D
LEVEL:		Local	State	National	
STATEMENT	OF SIGNIFIC	CANCE by Phil Berg	en		
which it sat, the p	property was built arch building in t	as a relief for South Fra	nklinites removed f	, reflecting the rural area in from the town center. e and bell, it has four Doric	
The church was c	losed in 1972, do	nated to the town, and v	/as used as a town n	nuseum until 2007.	
Questions arose about the outbuildings on site, the lack of substantial interior and exterior photos, and the surrounding area. The church appears to be in good condition, even though the building is currently vacant.					

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South Franklin Congregational Meeting House



Design. Live. Thrive.