

# FIRST PARISH MEETING HOUSE

## INTERIOR RENOVATION



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TOWN OF TYNGSBOROUGH

Drawing Title:

COVER SHEET

Revisions:

Submission:

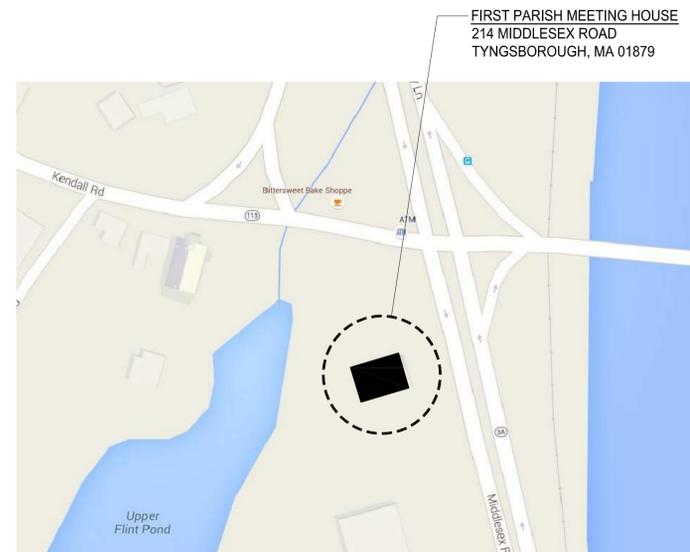
BIDDING DOCUMENTS

Date: 10/31/2018  
 Project Number: 17009  
 Project Manager: RD  
 Drawn By: EMC/PT  
 Scale: N.T.S.

**GO-01**

### LOCATOR MAP

NOTE:  
 CONTRACTOR TO FIELD VERIFY ALL  
 DIMENSIONS AND CONDITIONS.



### DRAWING SHEETS:

- GENERAL:**  
 G0-01 COVER SHEET  
**CIVIL ENGINEERING:**  
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 C1-02 SITE PLAN  
**LANDSCAPE:**  
 L1-01 DEMOLITION SITE PLAN  
 L1-02 SITE PLAN  
**ARCHITECTURAL DEMOLITION:**  
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 D1-01 FIRST FLOOR DEMOLITION PLAN  
 D1-02 MEZZANINE, ATTIC, AND ROOF DEMOLITION PLANS  
 D1-03 BASEMENT DEMOLITION REFLECTED CEILING PLAN  
 D1-04 FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN  
 D1-05 MEZZANINE DEMOLITION REFLECTED CEILING PLAN  
 D5-02 FRONT LANDING ENLARGED DEMOLITION PLAN AND DETAILS  
**ARCHITECTURAL:**  
 A1-00 BASEMENT FLOOR PLAN  
 A1-01 FIRST FLOOR PLAN  
 A1-02 MEZZANINE, ATTIC, AND ROOF PLANS  
 A1-03 BASEMENT REFLECTED CEILING PLAN  
 A1-04 FIRST FLOOR REFLECTED CEILING PLAN  
 A1-05 MEZZANINE REFLECTED CEILING PLAN  
 A1-06 MAAB/ADA SIGNAGE  
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 A4-00 STAIR AND LULA SECTION  
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 A4-02 BUILDING SECTIONS  
 A5-01 SLOPING WALKWAY & STAIR DETAILS  
 A5-02 FRONT LANDING, ENLARGED PLAN AND DETAILS  
 A5-03 TYPICAL DETAILS  
 A5-04 TYPICAL DETAILS  
 A6-01 TYPICAL PARTITION TYPES  
 A6-02 BASEMENT LEVEL INTERIOR ELEVATIONS  
 A6-03 BASEMENT & FIRST FLOOR INTERIOR ELEVATIONS  
 A6-04 FIRST FLOOR INTERIOR ELEVATIONS  
 A7-01 DOOR AND WINDOW SCHEDULE AND FINISH SCHEDULE  
 A7-02 DOOR AND WINDOW DETAILS, TYPICAL DETAILS  
 A10-01 EXISTING CONDITIONS PHOTOS  
 A10-02 EXISTING CONDITIONS PHOTOS  
 A10-03 FIRST FLOOR EXISTING PHOTOS  
 A10-04 EXISTING CONDITIONS PHOTOS  
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 S0-01 STRUCTURAL GENERAL NOTES  
 S1-01 DEMOLITION FOR NEW LULA  
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 S1-03 FRAMING AT LULA  
 S1-04 FRAMING FOR NEW STAIRS  
 S1-05 FOUNDATION FOR ACCESS RAMP & FRONT STAIRS  
 S1-06 ATTIC FLOOR AND CUPOLA LOWER ROOF FRAMING PLAN  
 S1-07 ROOF AND CUPOLA ROOF FRAMING PLAN  
 S5-01 FOUNDATION & MASONRY DETAILS

### DRAWING SHEETS:

- STRUCTURAL (CONT.):**  
 S5-02 FOUNDATION DETAILS  
 S5-03 STRUCTURAL FRAMING DETAILS  
 S5-04 STRUCTURAL FRAMING DETAILS  
 S5-05 EXISTING LALLY COLUMN RELOCATION DETAILS  
**FIRE PROTECTION:**  
 FP0-01 FIRE PROTECTION LEGENDS, NOTES, & ABBREVIATIONS  
 FP2-00 FIRE PROTECTION BASEMENT LEVEL NEW WORK PLAN  
 FP2-01 FIRE PROTECTION FIRST FLOOR NEW WORK PLAN  
 FP2-02 FIRE PROTECTION MEZZANINE LEVEL NEW WORK PLAN  
**PLUMBING:**  
 P0-01 PLUMBING LEGENDS, NOTES, & ABBREVIATIONS  
 P0-02 PLUMBING DETAILS  
 P0-03 PLUMBING DETAILS  
 P1-00 PLUMBING BASEMENT LEVEL DEMOLITION PLAN  
 P1-01 PLUMBING FIRST FLOOR DEMOLITION PLAN  
 P1-02 PLUMBING MEZZANINE LEVEL DEMOLITION PLAN  
 P2-00 PLUMBING BASEMENT LEVEL NEW WORK PLAN  
 P2-01 PLUMBING FIRST FLOOR NEW WORK PLAN  
 P2-02 PLUMBING MEZZANINE LEVEL NEW WORK PLAN  
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 M0-00 MECHANICAL LEGENDS, NOTES, & ABBREVIATIONS  
 M0-01 MECHANICAL SCHEDULES  
 M0-02 MECHANICAL DETAILS  
 M0-03 MECHANICAL DETAILS  
 M0-04 MECHANICAL SEQUENCES OF OPERATION  
 M1-00 MECHANICAL BASEMENT LEVEL DEMOLITION PLAN  
 M1-01 MECHANICAL FIRST FLOOR DEMOLITION PLAN  
 M1-02 MECHANICAL MEZZANINE LEVEL DEMOLITION PLAN  
 M2-00 MECHANICAL BASEMENT LEVEL NEW WORK PLAN  
 M2-01 MECHANICAL FIRST FLOOR NEW WORK PLAN  
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 E0-03 ELECTRICAL RISER DIAGRAMS & SCHEDULES  
 E0-04 ELECTRICAL DETAILS  
 E1-00 ELECTRICAL BASEMENT LEVEL DEMOLITION PLAN  
 E1-01 ELECTRICAL FIRST FLOOR DEMOLITION PLAN  
 E1-02 ELECTRICAL MEZZANINE LEVEL DEMOLITION PLAN  
 E2-00 ELECTRICAL BASEMENT LEVEL LIGHTING PLAN  
 E2-01 ELECTRICAL FIRST FLOOR LIGHTING PLAN  
 E2-02 ELECTRICAL MEZZANINE LEVEL LIGHTING PLAN  
 E3-00 ELECTRICAL BASEMENT LEVEL POWER PLAN  
 E3-01 ELECTRICAL FIRST FLOOR POWER PLAN  
 E3-02 ELECTRICAL MEZZANINE LEVEL POWER PLAN  
 E4-00 ELECTRICAL BASEMENT LEVEL FIRE ALARM PLAN  
 E4-01 ELECTRICAL FIRST FLOOR FIRE ALARM PLAN  
 E4-02 ELECTRICAL MEZZANINE LEVEL FIRE ALARM PLAN

### GENERAL NOTES:

- G0 THE TOWN OF TYNGSBOROUGH AND CBI CONSULTING, LLC. SHALL BE ADDED AS ADDITIONAL INSUREDS TO THE CONTRACTOR'S COMMERCIAL GENERAL LIABILITY, AUTOMOBILE LIABILITY AND UMBRELLA POLICIES FOR THIS PROJECT. ALL OF THE CONTRACTOR'S INSURERS SHALL PROVIDE A WAIVER OF SUBROGATION IN FAVOR OF THE TOWN OF TYNGSBOROUGH AND CBI CONSULTING, LLC.
- G1 CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND COORDINATING ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. IN CASE OF CONFLICT, THE ARCHITECT SHALL BE NOTIFIED AND SHALL RESOLVE THE CONFLICT. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.
- G2 IN ANY CASE OF CONFLICT BETWEEN OR WITHIN THE DRAWINGS AND THE PROJECT SPECIFICATIONS OR WITHIN THE DRAWINGS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN, AT THE SOLE DISCRETION OF THE ARCHITECT
- G3 THE CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT PRIOR REVIEW BY THE ARCHITECT.
- G4 WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED. ANY CONDITION FOUND NOT DETAILED SHALL BE CONSTRUCTED IN A MANNER SIMILAR TO THAT OF THE TYPICAL DETAILS.
- G5 ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND LOCAL LAWS AND REGULATIONS.
- G6 GENERAL CONTRACTOR SHALL COORDINATE LOCATIONS OF OPENINGS, PITS, BOXES, SUMPS, TRENCHES, SLEEVES, DEPRESSIONS, GROOVES, AND CHAMFERS, WITH MECHANICAL, ELECTRICAL AND PLUMBING TRADES.
- G7 THE STRUCTURAL DESIGN OF THE BUILDING IS BASED ON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS. NO PROVISIONS HAVE BEEN MADE FOR CONDITIONS OCCURRING DURING CONSTRUCTION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE PROPER AND ADEQUATE PROVISIONS FOR STABILITY OF, AND ALL STRESSES TO, THE STRUCTURE DUE TO ANY CAUSE DURING CONSTRUCTION.
- G8 CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REQUEST ALL DIMENSIONS OR INFORMATION REQUIRED TO PERFORM THE WORK FROM THE ARCHITECT. WORK COMPLETED BY THE CONTRACTOR WITHOUT DIMENSIONS OR INFORMATION SHALL BE DONE AT HIS OWN RISK AND SHALL BE REMOVED AND REINSTALLED TO THE SPECIFICATIONS OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- G9 MEANS AND METHODS OF CONSTRUCTION AS WELL AS COMPLIANCE WITH OSHA AND OTHER SAFETY LAWS AND REGULATIONS IS EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR, HIS SUBCONTRACTOR(S), SUPPLIERS, CONSULTANTS AND SERVANTS.
- G10 FOR ALL ITEMS THAT ARE TO BE REUSED AND/OR REINSTALLED AS PART OF THE WORK:
- ALL ITEMS THAT ARE TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. IF ANY DAMAGE OCCURS THE CONTRACTOR SHALL REPAIR THE ITEM SO IT IS IN A LIKE NEW CONDITION OR REPLACE IT WITH A NEW ITEM THAT FUNCTIONS THE SAME OR BETTER THAN THE ORIGINAL ITEM.
  - ALL ITEMS THAT ARE TO BE TEMPORARILY REMOVED & REINSTALLED ARE TO BE CAREFULLY REMOVED AND MOVED TO A PROTECTED AREA ON SITE OR TO AN OFF-SITE FACILITY. THE ITEM IS TO BE CLEANED AND PREPARED FOR REINSTALLATION. ALL FITTINGS AND CONNECTION POINTS ARE TO BE INSPECTED AND REPAIRED. PROVIDE NEW FASTENERS AND CAREFULLY TRANSPORT THE ITEM BACK TO ITS ORIGINAL LOCATION AND CAREFULLY REINSTALL. IF ANY DAMAGE OCCURS THE CONTRACTOR SHALL REPAIR THE ITEM SO IT IS IN A LIKE NEW CONDITION OR REPLACE IT WITH A NEW ITEM THAT FUNCTIONS THE SAME OR BETTER THAN THE ORIGINAL ITEM.

### LIST OF ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
A.F.F.	ABOVE FINISH FLOOR
APPROX.	APPROXIMATE
BIT.	BITUMINOUS
BUR	BUILT UP ROOFING
CB	CATCH BASIN
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONT.	CONTINUOUS
D.S.	DOWNSPOUT
EQ	EQUAL
E.V.	EACH WAY
FD	FLOOR DRAIN
GWB	GYPSPUM WALL BOARD
HCP	HANDICAP
HT	HEIGHT
I IN	INVERT IN
I OUT	INVERT OUT
ID	INTERIOR DIAMETER
L.C.C.	LEAD COATED COPPER
MAX.	MAXIMUM
MIN.	MINIMUM
M.O.	MASONRY OPENING
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OD	OVERHEAD DOOR
O.H.	OPPOSITE HAND
PAV.	PAVERS
P.T.	PRESSURE TREATED
SAT	SUSPENDED ACOUSTICAL TILE
SIM.	SIMILAR TO
S.S.	STAINLESS STEEL
T.	TREAD
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.C.T.	VINYL COMPOSITION TILE
V.I.F.	VERIFY IN FIELD
VCB	VINYL COVE BASE
W/	WITH
Z.C.C.	ZINC COATED COPPER
Ø	DIAMETER
+/-	PLUS OR MINUS

### SYMBOL LEGEND

	SEE DETAIL 88 ON SHEET AX-XX
	BREAK LINE
	DIMENSION LINE
	EXTENT
	DOOR TAG
	WINDOW TAG

### CONTACT INFORMATION:

Architect



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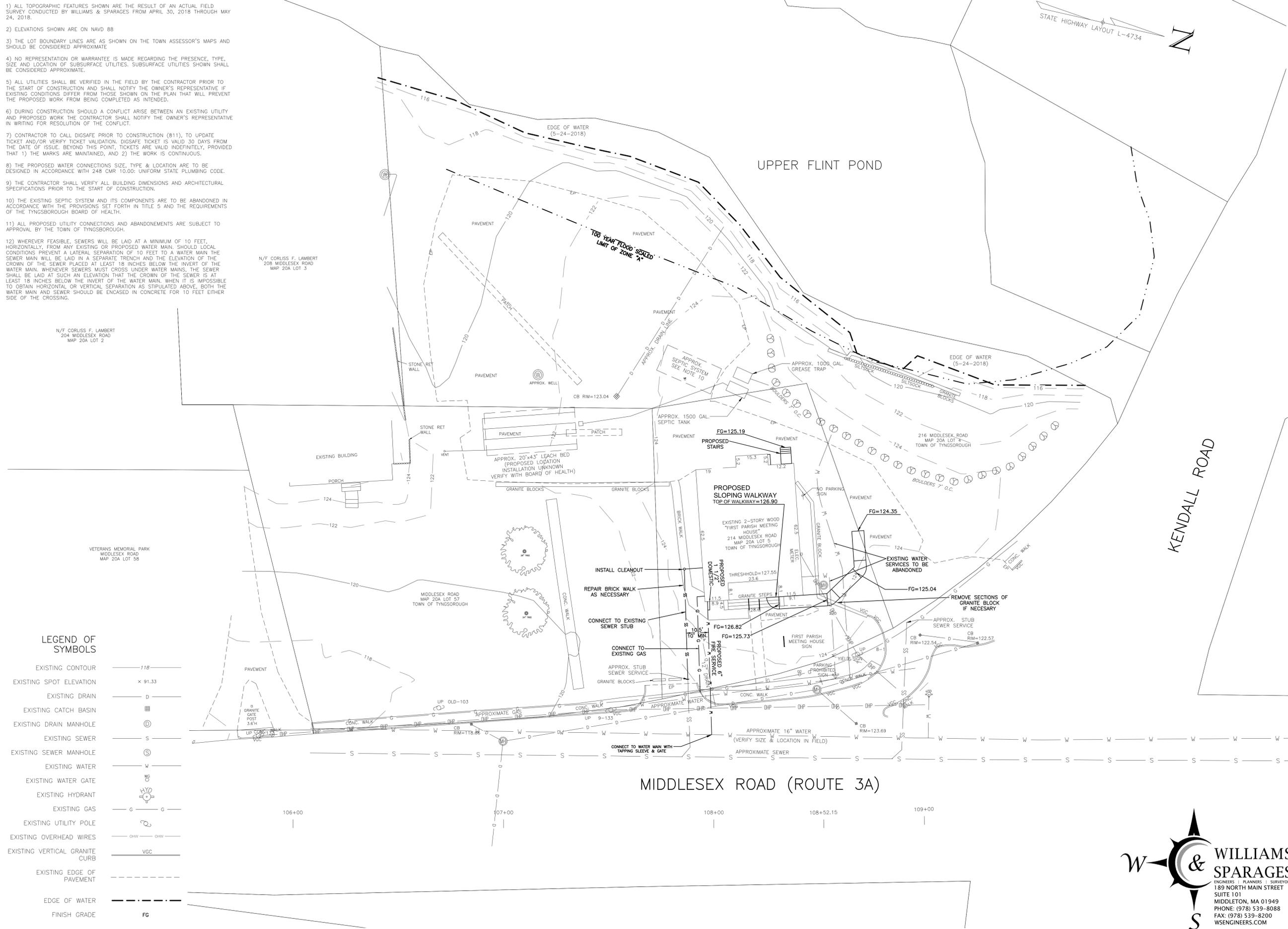
NOTES:

- 1) ALL TOPOGRAPHIC FEATURES SHOWN ARE THE RESULT OF AN ACTUAL FIELD SURVEY CONDUCTED BY WILLIAMS & SPARAGES FROM APRIL 30, 2018 THROUGH MAY 24, 2018.
- 2) ELEVATIONS SHOWN ARE ON NAVD 88
- 3) THE LOT BOUNDARY LINES ARE AS SHOWN ON THE TOWN ASSESSOR'S MAPS AND SHOULD BE CONSIDERED APPROXIMATE
- 4) NO REPRESENTATION OR WARRANTY IS MADE REGARDING THE PRESENCE, TYPE, SIZE AND LOCATION OF SUBSURFACE UTILITIES. SUBSURFACE UTILITIES SHOWN SHALL BE CONSIDERED APPROXIMATE.
- 5) ALL UTILITIES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN THAT WILL PREVENT THE PROPOSED WORK FROM BEING COMPLETED AS INTENDED.
- 6) DURING CONSTRUCTION SHOULD A CONFLICT ARISE BETWEEN AN EXISTING UTILITY AND PROPOSED WORK THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING FOR RESOLUTION OF THE CONFLICT.
- 7) CONTRACTOR TO CALL DIGSAFE PRIOR TO CONSTRUCTION (811), TO UPDATE TICKET AND/OR VERIFY TICKET VALIDATION. DIGSAFE TICKET IS VALID 30 DAYS FROM THE DATE OF ISSUE. BEYOND THIS POINT, TICKETS ARE VALID INDEFINITELY, PROVIDED THAT 1) THE MARKS ARE MAINTAINED, AND 2) THE WORK IS CONTINUOUS.
- 8) THE PROPOSED WATER CONNECTIONS SIZE, TYPE & LOCATION ARE TO BE DESIGNED IN ACCORDANCE WITH 248 CMR 10.00: UNIFORM STATE PLUMBING CODE.
- 9) THE CONTRACTOR SHALL VERIFY ALL BUILDING DIMENSIONS AND ARCHITECTURAL SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION.
- 10) THE EXISTING SEPTIC SYSTEM AND ITS COMPONENTS ARE TO BE ABANDONED IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN TITLE 5 AND THE REQUIREMENTS OF THE TYNGSBOROUGH BOARD OF HEALTH.
- 11) ALL PROPOSED UTILITY CONNECTIONS AND ABANDONMENTS ARE SUBJECT TO APPROVAL BY THE TOWN OF TYNGSBOROUGH.
- 12) WHEREVER FEASIBLE, SEWERS WILL BE LAID AT A MINIMUM OF 10 FEET, HORIZONTALLY, FROM ANY EXISTING OR PROPOSED WATER MAIN. SHOULD LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET TO A WATER MAIN THE SEWER MAIN WILL BE LAID IN A SEPARATE TRENCH AND THE ELEVATION OF THE CROWN OF THE SEWER PLACED AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN. WHENEVER SEWERS MUST CROSS UNDER WATER MAINS, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN. WHEN IT IS IMPOSSIBLE TO OBTAIN HORIZONTAL OR VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER MAIN AND SEWER SHOULD BE ENCASED IN CONCRETE FOR 10 FEET EITHER SIDE OF THE CROSSING.

N/F CORLISS F. LAMBERT  
204 MIDDLESEX ROAD  
MAP 20A LOT 2

N/F CORLISS F. LAMBERT  
208 MIDDLESEX ROAD  
MAP 20A LOT 3

VETERANS MEMORIAL PARK  
MIDDLESEX ROAD  
MAP 20A LOT 56



**LEGEND OF SYMBOLS**

EXISTING CONTOUR	---
EXISTING SPOT ELEVATION	x 91.33
EXISTING DRAIN	D
EXISTING CATCH BASIN	⊞
EXISTING DRAIN MANHOLE	⊙
EXISTING SEWER	S
EXISTING SEWER MANHOLE	⊙
EXISTING WATER	W
EXISTING WATER GATE	⊞
EXISTING HYDRANT	⊙
EXISTING GAS	G
EXISTING UTILITY POLE	⊙
EXISTING OVERHEAD WIRES	OHW
EXISTING VERTICAL GRANITE CURB	VGC
EXISTING EDGE OF PAVEMENT	---
EDGE OF WATER	---
FINISH GRADE	FG

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MEETING HOUSE  
INTERIOR  
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**TOWN OF  
TYNGSBOROUGH**

Drawing Title:  
**SITE PLAN**

Revisions:  
**NOT FOR  
CONSTRUCTION**

Submission:  
**BIDDING  
DOCUMENTS**

**W & SPARAGES**  
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Date: 06/20/2018  
Revision Date: 10/29/2018  
Project Number: 17009  
Project Manager: A.W.  
Drawn By: PMB  
Scale: 1"=20'

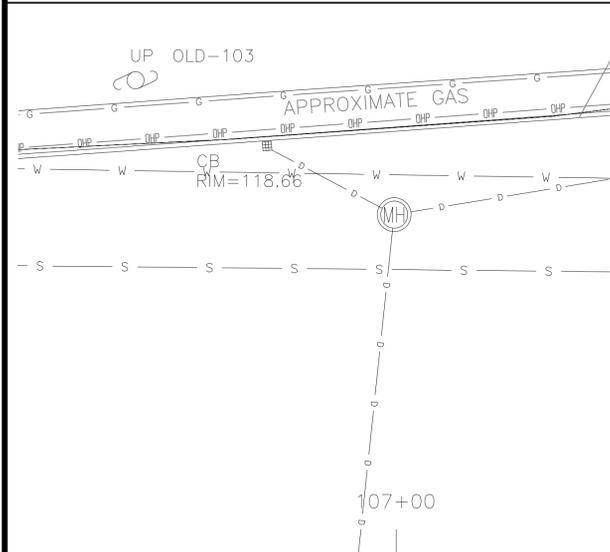
**C1-01**

**PROJECT NOTES:**

- EXISTING TOPOGRAPHIC INFORMATION IS THE RESULT OF AN ACTUAL INSTRUMENT SURVEY PERFORMED BY WILLIAMS & SPARAGES LLC CONDUCTED SEPTEMBER 20, 2017.
- VERTICAL DATUM IS NAVD88.
- THE UTILITIES SHOWN ARE COMPILED FROM AN ACTUAL INSTRUMENT SURVEY PERFORMED BY WILLIAMS & SPARAGES LLC, VARIOUS PLANS ON FILE WITH THE TOWN OF TYNGSBOROUGH AND OTHER PLANS OF RECORD. NO REPRESENTATION OR WARRANTY IS MADE AS TO THE ACCURACY OF THE LOCATION OF THE SUBSURFACE UTILITIES AND SHOULD BE CONSIDERED APPROXIMATE.
- ALL UTILITIES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN THAT WILL PREVENT THE PROPOSED WORK FROM BEING COMPLETED AS INTENDED.
- IF DURING CONSTRUCTION A CONFLICT SHOULD ARISE BETWEEN AN EXISTING UTILITY AND PROPOSED WORK THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING FOR RESOLUTION OF THE CONFLICT.

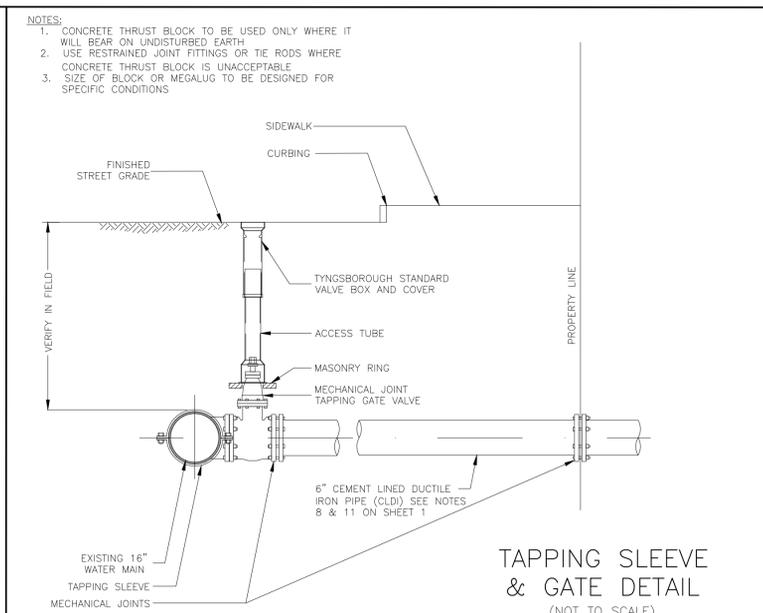
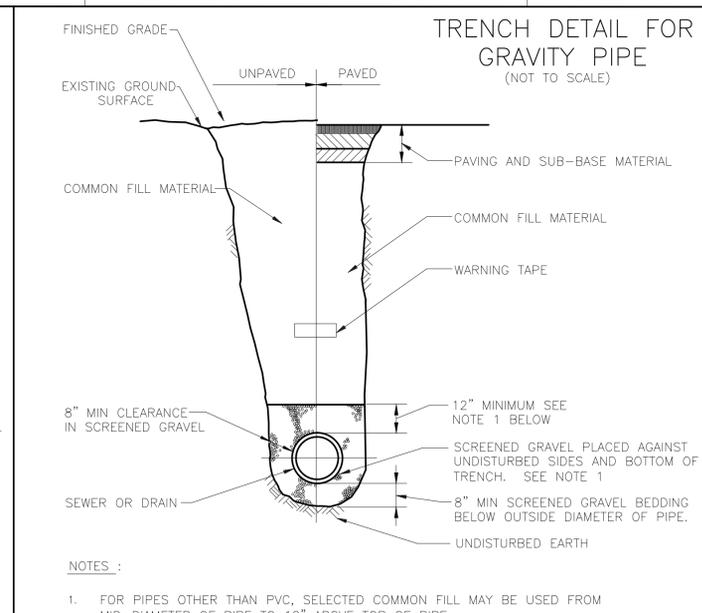
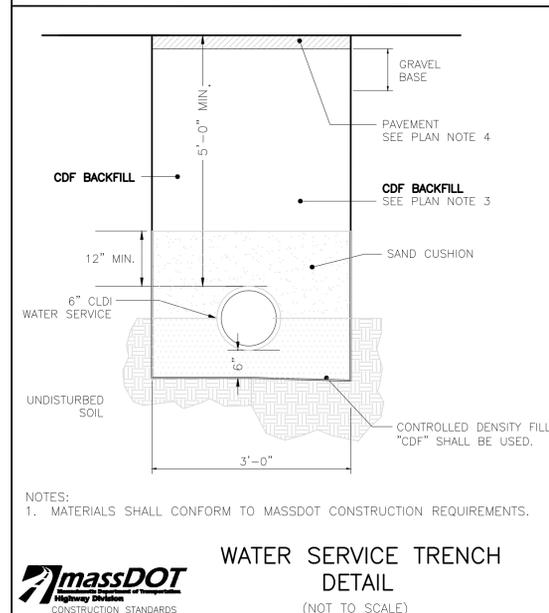
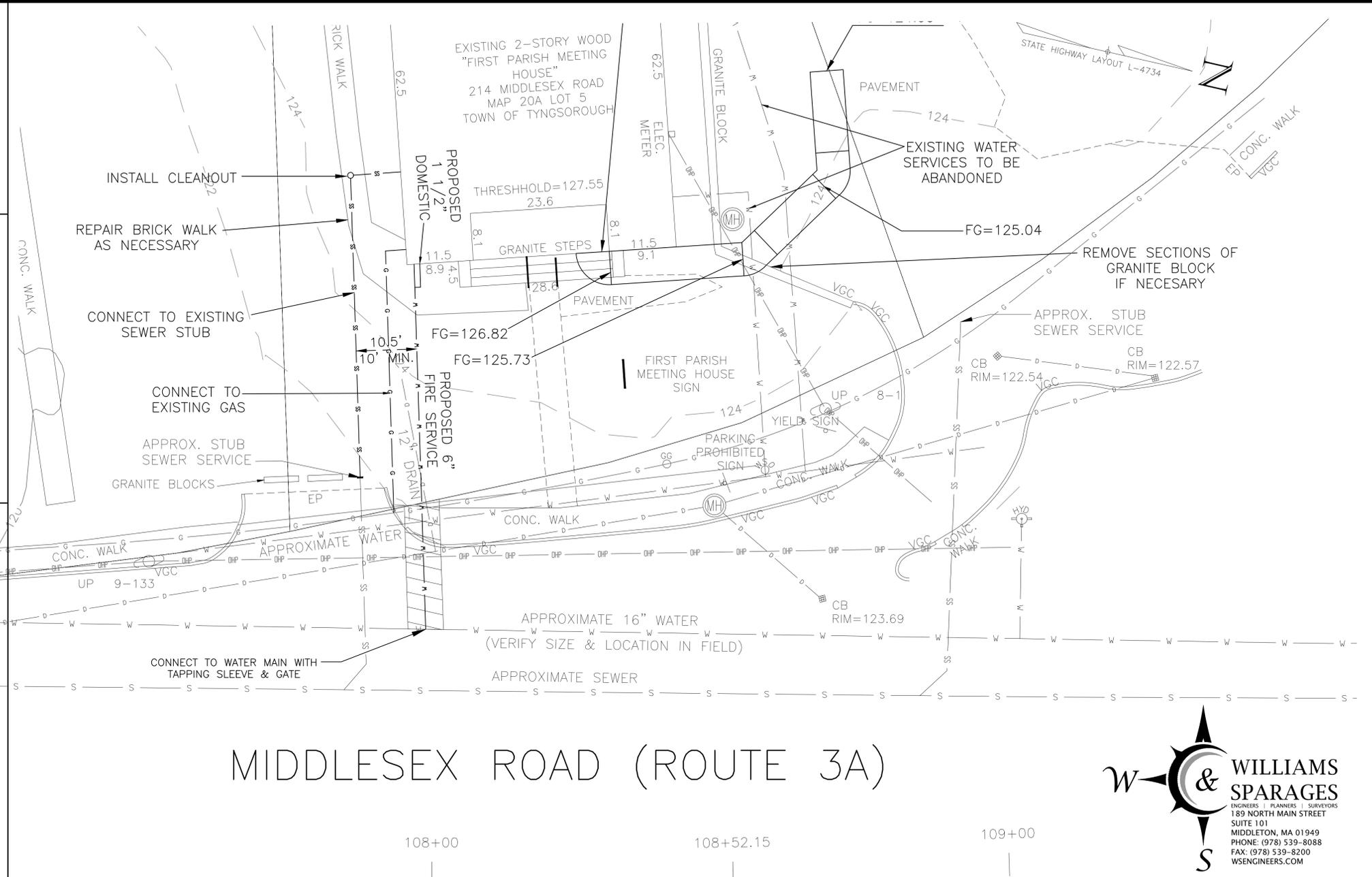
**CONSTRUCTION NOTES:**

- SHOULD ANY DISCREPANCIES ARISE ON ANY OF THE VARIOUS DETAILS, MassDOT CONSTRUCTION STANDARDS SHOULD BE HELD.
- SAWCUT WAY SHALL BE CUT IN STRAIGHT LINES USING A CONCRETE SAW OR OTHER ACCEPTABLE METHODS EQUIPPED TO CUT THE FULL DEPTH SURFACING. THE EXCAVATION SHALL ONLY BE BETWEEN THESE LINES. THE CUTTING OPERATION SHALL NOT BE DONE WITH A BACKHOE, GRADEALL OR ANY TYPE OF RIPPING EQUIPMENT.
- THE CONTRACTOR SHALL USE CONTROLLED DENSITY FILL (CDF) WHENEVER TRENCHES ARE CUT IN THE TRAVELED WAY. CDF SHALL MEET THE REQUIREMENTS OF THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988 EDITION AND SUPPLEMENTAL SPECIFICATIONS DATED DECEMBER 11, 2002. CDF MUST BE BATCHED AT A CONCRETE PLANT IF FLOWABLE, REQUIRES NO VIBRATING, AND THE FINISHED PRODUCT MUST BE EXCAVATABLE WITHOUT THE USE OF POWER TOOLS.
- A PERMANENT PATCH SHALL THEN BE PLACED CONSISTING OF 2" OF BINDER AND 2" OF MODIFIED TOP (CLASS-I) BITUMINOUS CONCRETE PAVEMENT - TYPE 1-1) TO MEET THE EXISTING PAVEMENT SURFACE GRADE.
- THE EXPOSED EDGES OF ALL LONGITUDINAL AND TRANSVERSE SAW CUT JOINTS SHALL BE TREATED WITH HOT MIXED ASPHALT JOINT SEALANT MEETING THE REQUIREMENTS OF THE FEDERAL SPECIFICATION SS-S-1401 OR SS-S-64 IN ACCORDANCE WITH SECTION 460.65 OF THE 1988 EDITION OF THE "MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES" AND SUPPLEMENTAL SPECIFICATIONS DATED JUNE 6, 2006.



**LEGEND OF SYMBOLS**

EXISTING CONTOUR	---	118
EXISTING SPOT ELEVATION	x	91.33
EXISTING DRAIN	D	
EXISTING CATCH BASIN	■	
EXISTING DRAIN MANHOLE	⊙	
EXISTING SEWER	S	
EXISTING SEWER MANHOLE	⊙	
EXISTING WATER	W	
EXISTING WATER GATE	⊙	
EXISTING HYDRANT	⊙	
EXISTING GAS	G	
EXISTING UTILITY POLE	⊙	
EXISTING OVERHEAD WIRES	---	
EXISTING VERTICAL GRANITE CURB	VGC	
EXISTING EDGE OF PAVEMENT	---	
EDGE OF WATER	---	
FINISH GRADE	FG	



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**SITE PLAN DETAILS**

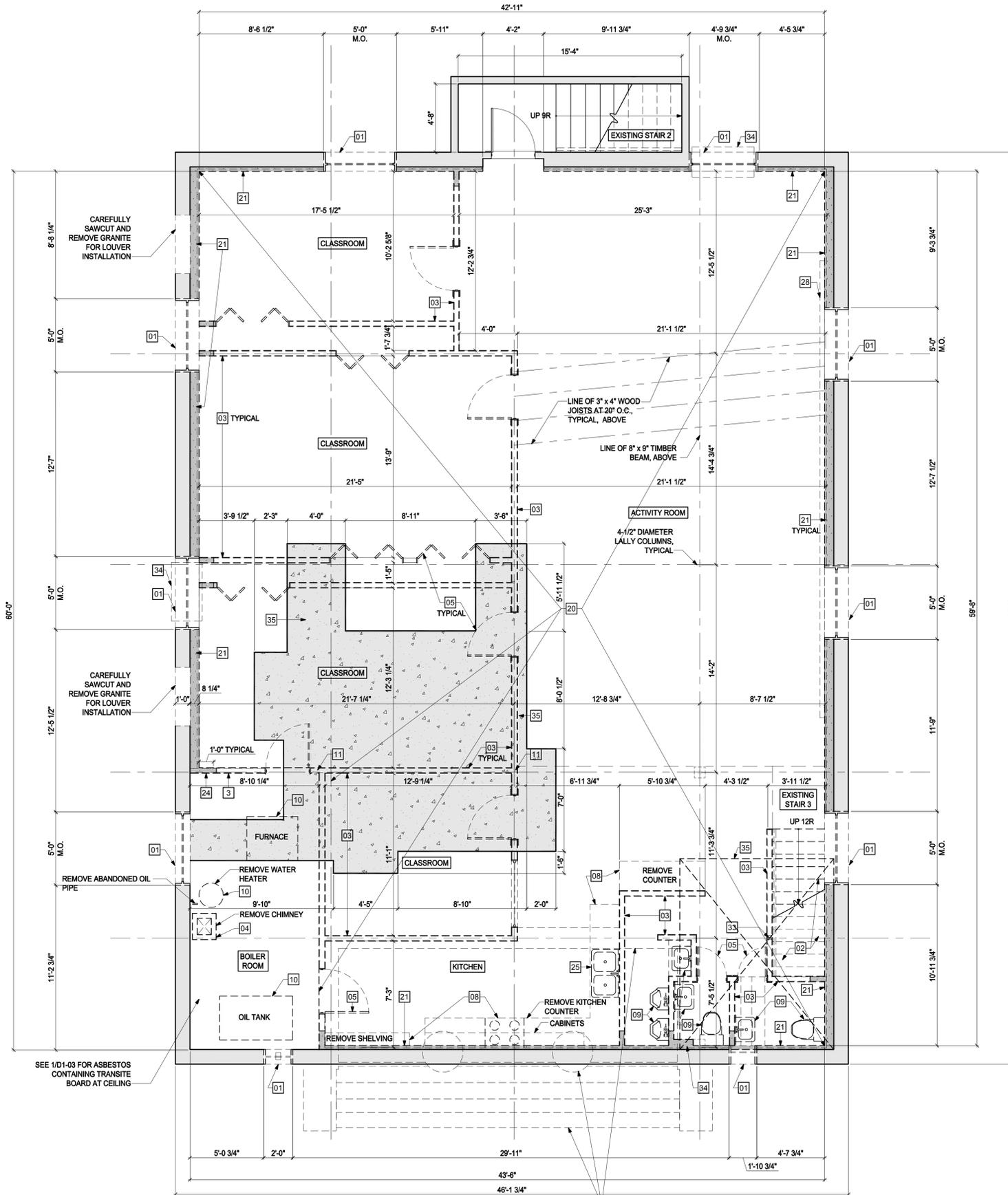
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**C1-02**







NOTE: SOLID LIGHT GRAY HATCH ( ) REPRESENTS EXISTING CONSTRUCTION TO REMAIN.

**ABATEMENT NOTE:**  
EXISTING CONSTRUCTION WITHIN THE SCOPE OF WORK CONTAINS ASBESTOS THAT MUST BE REMOVED AND DISPOSED OF ACCORDING TO THE LOCAL, STATE, AND FEDERAL REGULATIONS AND GUIDELINES (REFER TO SPECIFICATIONS).

**DEMOLITION LEGEND:**

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED AND DISPOSED OF
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED AND DISPOSED OF
- ABATEMENT SCOPE
- EXISTING TO REMAIN
- FLOOR AND LEVEL FRAMING TO BE REMOVED AND DISPOSED OF
- SAWCUT EXISTING CONCRETE SLAB AND DISPOSE OF. EXCAVATE EXISTING SOIL TO ACCOMMODATE INSTALLATION OF NEW UNDERGROUND PLUMBING AND NEW COMPACTED GRAVEL. COORDINATE EXTENT OF REMOVAL WITH PLUMBING LAYOUT. EXCAVATE FOR GREASE TRAP INSTALLATION
- EXISTING ROOF SLOPE

**GENERAL NOTE:**  
1. SELECTIVE DEMOLITION TO BE COMPLETED PRIOR TO ABATEMENT.

**GENERAL NOTES:**

1. ALL DIMENSIONS ARE ± V.I.F. AND CONTRACTOR SHALL VERIFY ALL DIMENSIONS, QUANTITIES AND CONDITIONS IN THE FIELD.
2. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BARRICADES TO PREVENT PEDESTRIANS FROM ACCESSING THE WORK AREA. ALL SIDEWALKS MUST REMAIN OPEN TO PEDESTRIAN TRAFFIC AT ALL TIMES FOR THE DURATION OF THE PROJECT.
3. ANY DISCREPANCIES NOTED BY THE CONTRACTOR BETWEEN OR WITHIN THE DRAWINGS AND/OR SPECIFICATIONS MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO BID SUBMISSIONS. THE MORE STRINGENT REQUIREMENT SHALL GOVERN AT THE FULL DISCRETION OF THE ARCHITECT.
4. SEE ASBESTOS ABATEMENT AND SAFE LEAD PRACTICE SPECIFICATION IN PROJECT MANUAL.
5. GENERAL CONTRACTOR TO COORDINATE FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL, FP,P,M,E DRAWINGS AND SPECIFICATION.

**DEMOLITION KEY NOTES:**

- \* 01 REMOVE AND DISPOSE OF ALL EXISTING WINDOWS, SEE LEAD SAFE PRACTICE SPECIFICATION.
- 02 REMOVE AND DISPOSE OF EXISTING STAIR FINISH AND FINISH WALLS PRIOR TO ASBESTOS ABATEMENT.
- 02a REMOVE AND DISPOSE OF EXISTING STAIR FINISH AND FINISH WALLS. SEE 2 + 3 / S1-02 FOR STRUCTURAL DEMOLITION.
- \* 03 REMOVE AND DISPOSE OF EXISTING INTERIOR WALL SHEATHING AND FRAMING. EXISTING SILL PLATES TO REMAIN. CUT WALLS 1'-0" FROM EXTERIOR FINISH WALLS AND LEAVE 1'-0" LENGTH OF WALL INTACT AT BASEMENT LEVEL. REMOVAL OF SILL PLATES AND 1'-0" WALL STUBS TO BE PART OF ABATEMENT SCOPE.
- 03a REMOVE AND DISPOSE OF EXISTING INTERIOR WALLS.
- 04 REMOVE AND DISPOSE OF EXISTING CHIMNEY.
- 04a REMOVE AND DISPOSE OF EXISTING ROOF AND ROOFING TO ACCOMMODATE INSTALLATION OF.
- 05 REMOVE AND DISPOSE OF EXISTING DOORS.
- 05a CAREFULLY REMOVE AND SALVAGE EXISTING PAIR OF DOORS AND STORE FOR REUSE.
- 06 REMOVE AND DISPOSE OF ALTAR LOW WALLS AND THIRD RISER PLATFORM.
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- \* 08 REMOVE AND DISPOSE OF EXISTING APPLIANCES, KITCHEN COUNTERTOPS, CABINETS AND SHELVING. SEE ASBESTOS ABATEMENT SPECIFICATION REGARDING SINK BOWL ABATEMENT.
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- 11 REMOVE AND RELOCATE EXISTING COLUMNS, COORDINATE WITH FLOOR PLAN A1-00.
- 12 REMOVE AND DISPOSE OF EXISTING INTERIOR WOOD RAMP.
- 13 CAREFULLY REMOVE AND SALVAGE EXISTING GRANITE LANDING STONES. REMOVE AND DISPOSE OF SAND SETTING BED.
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- 15 REMOVE AND DISPOSE OF EXISTING WOOD FLOOR AND RAISED FRAMING. SEE 2/S3-01 FOR STRUCTURAL DEMOLITION AT EXISTING STAIR 3, SEE 3/S1-01 FOR STRUCTURAL DEMOLITION AT STORAGE.
- 16 REMOVE AND DISPOSE OF EXISTING FLOOR PATCH TO ACCOMMODATE INSTALLATION OF GRANITE TO STONE.
- 17 CUT, REMOVE, AND DISPOSE OF EXISTING ASPHALT TO ACCOMMODATE INSTALLATION OF GRANITE STONES.
- 18 REMOVE AND DISPOSE OF EXISTING PLASTER FINISH ON WALLS.
- 19 REMOVE AND DISPOSE OF EXISTING CARPET.
- \* 20 REMOVE AND DISPOSE OF EXISTING 9x9 VINYL COMPOSITION TILES AND 12x12 VINYL COMPOSITION TILE, SEE ASBESTOS ABATEMENT SPECIFICATION.
- \* 21 REMOVE AND DISPOSE OF WOOD LAMINATE BOARD, RIGID INSULATION AND GYPSUM WALL BOARD AT GRANITE AND CONCRETE WALLS. SEE ASBESTOS ABATEMENT SPECIFICATION FOR GLUE DAUBS REMOVED. CUT INTERIOR WALLS WITHIN 1'-0" OF EXTERIOR FINISH WALLS. REMAINING 1'-0" OF INTERIOR WALLS TO BE REMOVED AS PART OF ABATEMENT SCOPE.
- 22 REMOVE AND DISPOSE OF EXISTING ACOUSTIC TILE CEILING TILE AND GRID.
- \* 23 REMOVE AND DISPOSE OF TRANSITE CEILING PANELS. SEE ASBESTOS ABATEMENT SPECIFICATION.
- 24 REMOVE AND DISPOSE OF GYPSUM BOARD WALL. SEE ASBESTOS ABATEMENT SPECIFICATION FOR GYPSUM BOARD COMPOUND SEALANTS.
- \* 25 REMOVE AND DISPOSE OF SINKS. SEE ASBESTOS ABATEMENT SPECIFICATION.
- 26 REMOVE AND DISPOSE OF 1'-0" OF ACOUSTIC TILE CEILING AT EXTERIOR WALL INTERIOR FINISH.
- 27 REMOVE AND DISPOSE OF ALL WOOD PANELED CEILING.
- 28 CAREFULLY REMOVE AND DISPOSE OF ALL EXISTING BASEBOARD AND HEAT.
- 29 REMOVE AND SALVAGE EXISTING PEW SEAT AND BACK PANELS. COORDINATE STORAGE WITH OWNER.
- 30 REMOVE AND DISPOSE OF INTERIOR INFILL WALLS FROM 3'-4" ABOVE FINISHED FLOOR TO UNDERSIDE OF BARREL CEILING.
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- 32 REMOVE AND DISPOSE OF CEILING MOUNTED LIGHT FIXTURES.
- 33 REMOVE AND DISPOSE OF EXISTING WOOD POST.
- 34 REMOVE AND DISPOSE OF EXISTING MEP. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- 35 REMOVE AND DISPOSE OF CONCRETE SLAB AND EXCAVATE SOIL TO ACCOMMODATE INSTALLATION OF FOUNDATIONS AND UTILITIES. SEE DRAWING 1/S1-01.

**1 BASEMENT DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"



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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**

**BASEMENT DEMOLITION PLAN**

Drawing Title:

Revisions:

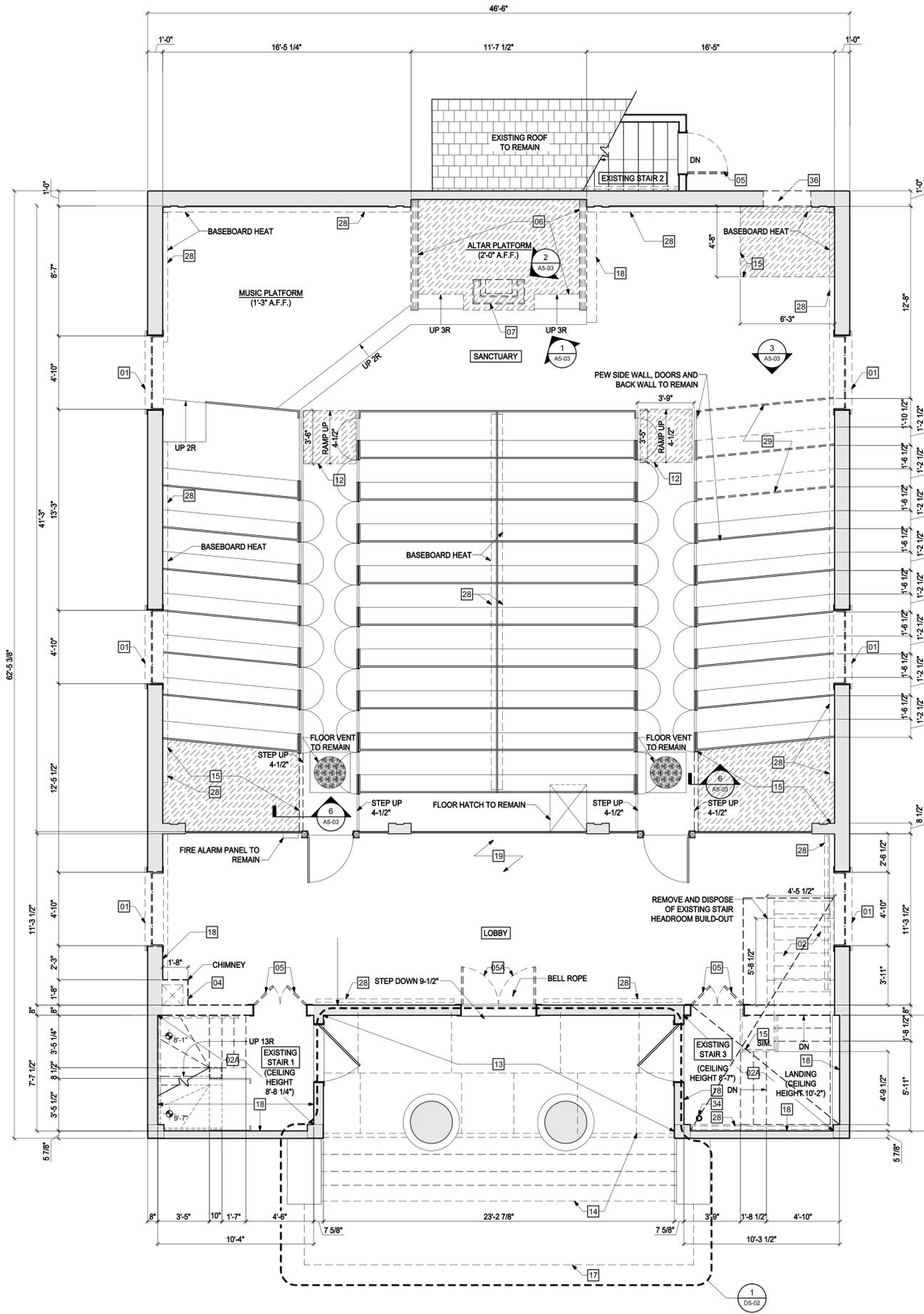
Submission:

**BIDDING DOCUMENTS**

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: EMC  
Scale: 1/4" = 1'-0"

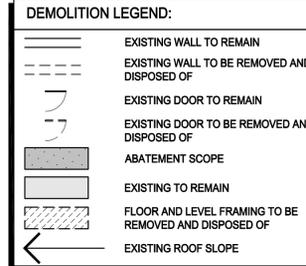
**D1-00**

**1** FIRST FLOOR DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"



NOTE: SOLID LIGHT GRAY HATCH ( ) REPRESENTS EXISTING CONSTRUCTION TO REMAIN.

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- GENERAL NOTES:**
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  - ANY DISCREPANCIES NOTED BY THE CONTRACTOR BETWEEN OR WITHIN THE DRAWINGS AND/OR SPECIFICATIONS MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO BID SUBMISSIONS. THE MORE STRINGENT REQUIREMENT SHALL GOVERN AT THE FULL DISCRETION OF THE ARCHITECT.
  - SEE ASBESTOS ABATEMENT AND SAFE LEAD PRACTICE SPECIFICATION IN PROJECT MANUAL.
  - GENERAL CONTRACTOR TO COORDINATE FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL, FF,P,M,E DRAWINGS AND SPECIFICATION.

- DEMOLITION KEY NOTES:**
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  - REMOVE AND DISPOSE OF EXISTING STAIR FINISH AND FINISH WALLS PRIOR TO ASBESTOS ABATEMENT.
  - REMOVE AND DISPOSE OF EXISTING STAIR FINISH AND FINISH WALLS. SEE 2+3/S1-02 FOR STRUCTURAL DEMOLITION.
  - REMOVE AND DISPOSE OF INTERIOR WALL SHEATHING AND FRAMING. EXISTING SILL PLATES TO REMAIN. CUT WALLS 1'-0" FROM EXTERIOR FINISH WALLS AND LEAVE 1'-0" LENGTH OF WALL INTACT AT BASEMENT LEVEL. REMOVAL OF SILL PLATES AND 1'-0" WALL STUBS TO BE PART OF ABATEMENT SCOPE.
  - REMOVE AND DISPOSE OF INTERIOR WALLS.
  - REMOVE AND DISPOSE OF CHIMNEY.
  - REMOVE AND DISPOSE OF EXISTING ROOF AND ROOFING.
  - REMOVE AND DISPOSE OF EXISTING DOORS.
  - REMOVE AND SALVAGE EXISTING PAIR OF DOORS AND STORE FOR REUSE.
  - REMOVE AND DISPOSE OF ALTAR LOW WALLS AND THIRD RISER PLATFORM.
  - REMOVE AND SAFELY STORE EXISTING ALTAR.
  - REMOVE AND DISPOSE OF APPLIANCES, KITCHEN COUNTERTOPS, CABINETS AND SHELVING. SEE ASBESTOS ABATEMENT SPECIFICATION REGARDING SINK BOWL ABATEMENT.
  - REMOVE AND DISPOSE OF EXISTING TOILETS, SINKS AND PLUMBING FIXTURES.
  - REMOVE AND DISPOSE OF EXISTING FURNACE, WATER HEATER AND OIL TANK. SEE ASBESTOS ABATEMENT SPECIFICATION.
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  - REMOVE AND SALVAGE EXISTING GRANITE STEPS. REMOVE AND DISPOSE OF SAND SETTING BED. TAG STAIRS PER DETAIL 1, 2, + 5/D5-02.
  - REMOVE AND DISPOSE OF EXISTING WOOD FLOOR AND RAISED FRAMING. SEE 2/S3-01 FOR STRUCTURAL DEMOLITION AT EXISTING STAIR 3 SEE 3/S1-01 FOR STRUCTURAL DEMOLITION AT STORAGE.
  - REMOVE AND DISPOSE OF EXISTING FLOOR PATCH.
  - CUT, REMOVE, AND DISPOSE OF EXISTING ASPHALT.
  - REMOVE AND DISPOSE OF EXISTING PLASTER WALLS.
  - REMOVE AND DISPOSE OF EXISTING CARPET.
  - REMOVE AND DISPOSE OF 9x9 VINYL COMPOSITION TILES AND 12x12 VINYL COMPOSITION TILE. SEE ASBESTOS ABATEMENT SPECIFICATION.
  - REMOVE AND DISPOSE OF WOOD LAMINATE BOARD, RIGID INSULATION AND GYPSUM WALL BOARD AT GRANITE AND CONCRETE WALLS. SEE ASBESTOS ABATEMENT SPECIFICATION FOR GLUE DAUBS REMOVED. CUT INTERIOR WALLS WITHIN 1'-0" OF EXTERIOR FINISH WALLS. REMAINING 1'-0" OF INTERIOR WALLS TO BE REMOVED AS PART OF ABATEMENT SCOPE.
  - REMOVE AND DISPOSE OF EXISTING ACOUSTIC TILE CEILING TILE AND GRID.
  - REMOVE AND DISPOSE OF TRANSITE CEILING PANELS. SEE ASBESTOS ABATEMENT SPECIFICATION.
  - REMOVE AND DISPOSE OF GYPSUM BOARD WALL. SEE ASBESTOS ABATEMENT SPECIFICATION FOR GYPSUM BOARD COMPOUND SEALANTS.
  - REMOVE AND DISPOSE OF (2) SINKS. SEE ASBESTOS ABATEMENT SPECIFICATION.
  - REMOVE AND DISPOSE OF 1'-0" OF ACOUSTIC TILE CEILING WITH EXTERIOR WALL INTERIOR FINISH.
  - REMOVE AND DISPOSE OF WOOD paneled ceiling.
  - CAREFULLY REMOVE AND DISPOSE OF EXISTING BASEBOARD AND HEAT.
  - REMOVE AND SALVAGE EXISTING PEW SEAT AND BACK PANELS. COORDINATE STORAGE WITH OWNER.
  - REMOVE AND DISPOSE OF INTERIOR INFILL WALLS FROM 3'-4" ABOVE FINISHED FLOOR TO UNDERSIDE OF BARREL CEILING.
  - REMOVE AND DISPOSE OF SURFACE-MOUNTED LIGHT SCONCES.
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  - REMOVE AND DISPOSE OF EXISTING WOOD POST.
  - REMOVE AND DISPOSE OF EXISTING MEP. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
  - REMOVE AND DISPOSE OF CONCRETE SLAB, SEE DRAWING 1/S1-01.
  - REMOVE AND DISPOSE OF EXISTING EXTERIOR WALL AND ADJACENT CLAPBOARDS FOR INSTALLATION OF NEW EXTERIOR DOOR
  - REMOVE AND DISPOSE OF EXISTING LATH AND PLASTER CEILING

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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**

**FIRST FLOOR DEMOLITION PLAN**

Drawing Title: **FIRST FLOOR DEMOLITION PLAN**

Revisions:

Submission: **BIDDING DOCUMENTS**

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: EMC/PT  
Scale: 1/4" = 1'-0"

**D1-01**

NOTE: SOLID LIGHT GRAY HATCH ( ) REPRESENTS EXISTING CONSTRUCTION TO REMAIN.

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**DEMOLITION LEGEND:**

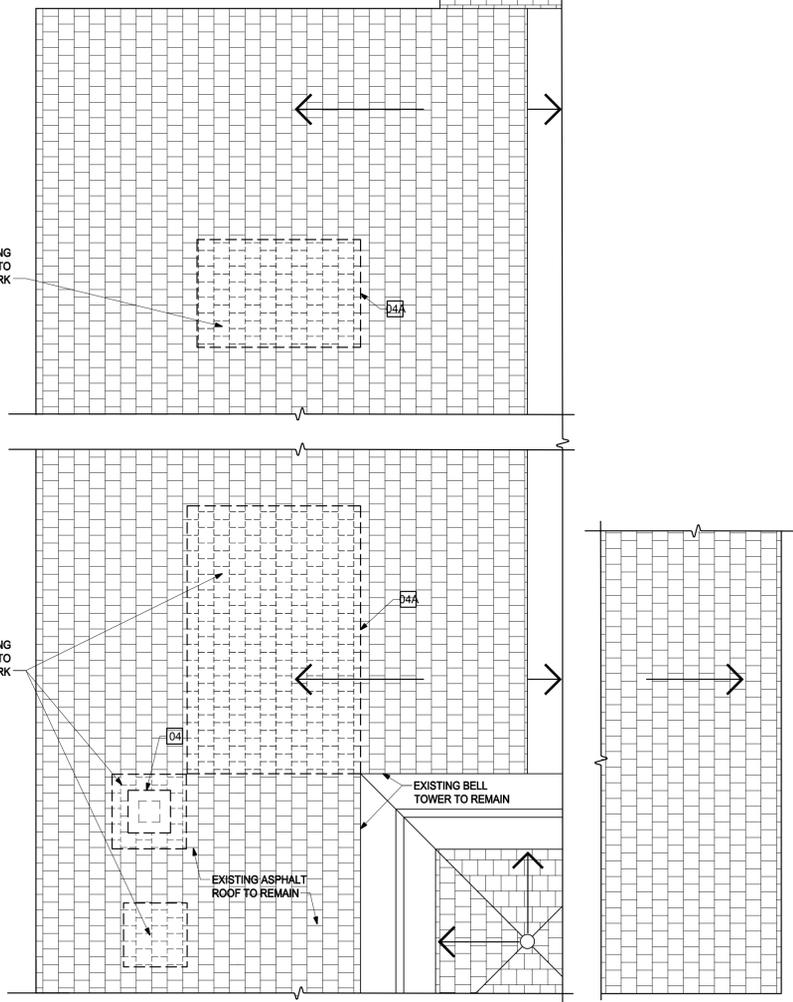
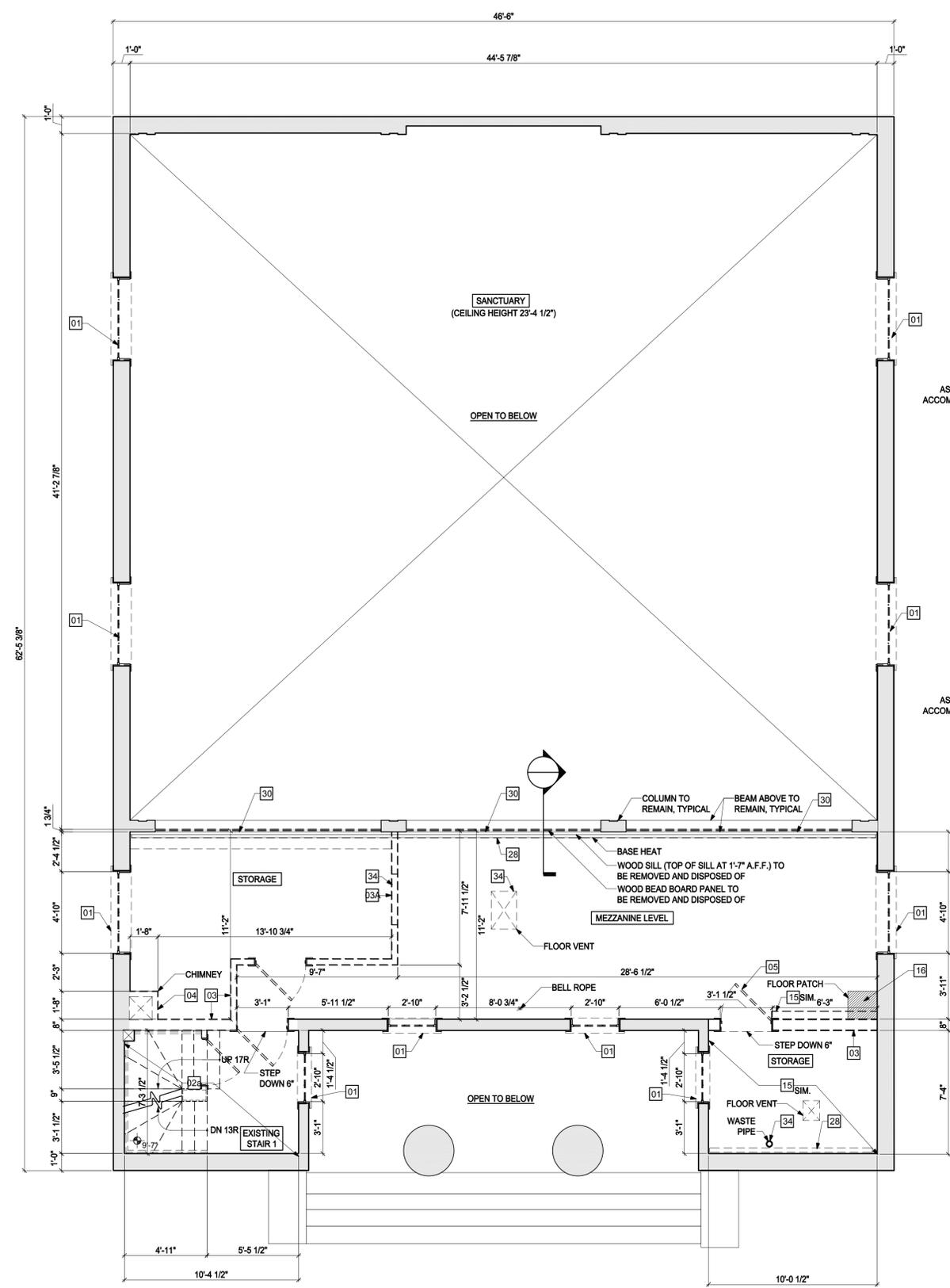
- (Solid line) EXISTING WALL TO REMAIN
- (Dashed line) EXISTING WALL TO BE REMOVED AND DISPOSED OF
- (Dotted line) EXISTING DOOR TO REMAIN
- (Dotted line) EXISTING DOOR TO BE REMOVED AND DISPOSED OF
- (Diagonal hatching) ABATEMENT SCOPE
- (Light gray hatching) EXISTING TO REMAIN
- (Dark gray hatching) FLOOR AND LEVEL FRAMING TO BE REMOVED AND DISPOSED OF
- (Stippled hatching) SAWCUT EXISTING CONCRETE SLAB AND DISPOSE OF.

**GENERAL NOTES:**

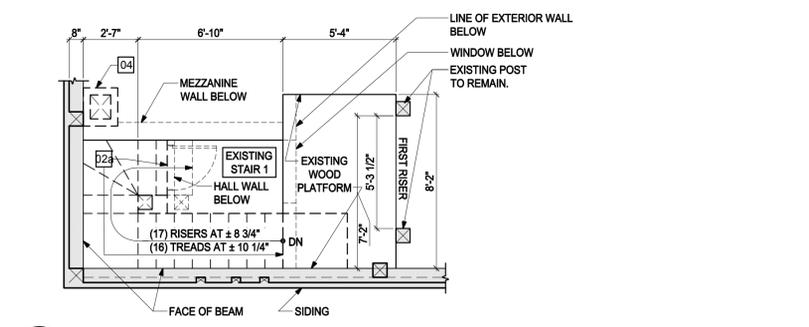
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**DEMOLITION KEY NOTES:**

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**3 PARTIAL ROOF DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"



**2 PARTIAL ATTIC DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"

**1 MEZZANINE DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"



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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**

**MEZZANINE, ATTIC, AND ROOF DEMOLITION PLANS**

Drawing Title: \_\_\_\_\_  
Revisions: \_\_\_\_\_

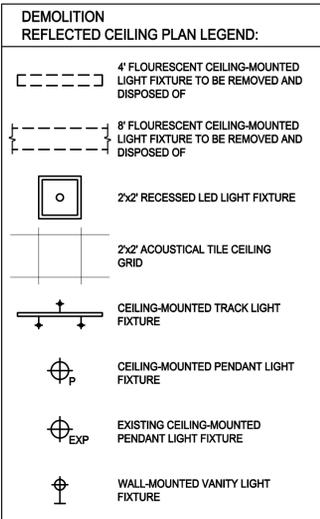
**BIDDING DOCUMENTS**

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: EMC/ RF  
Scale: 1/4" = 1'-0"

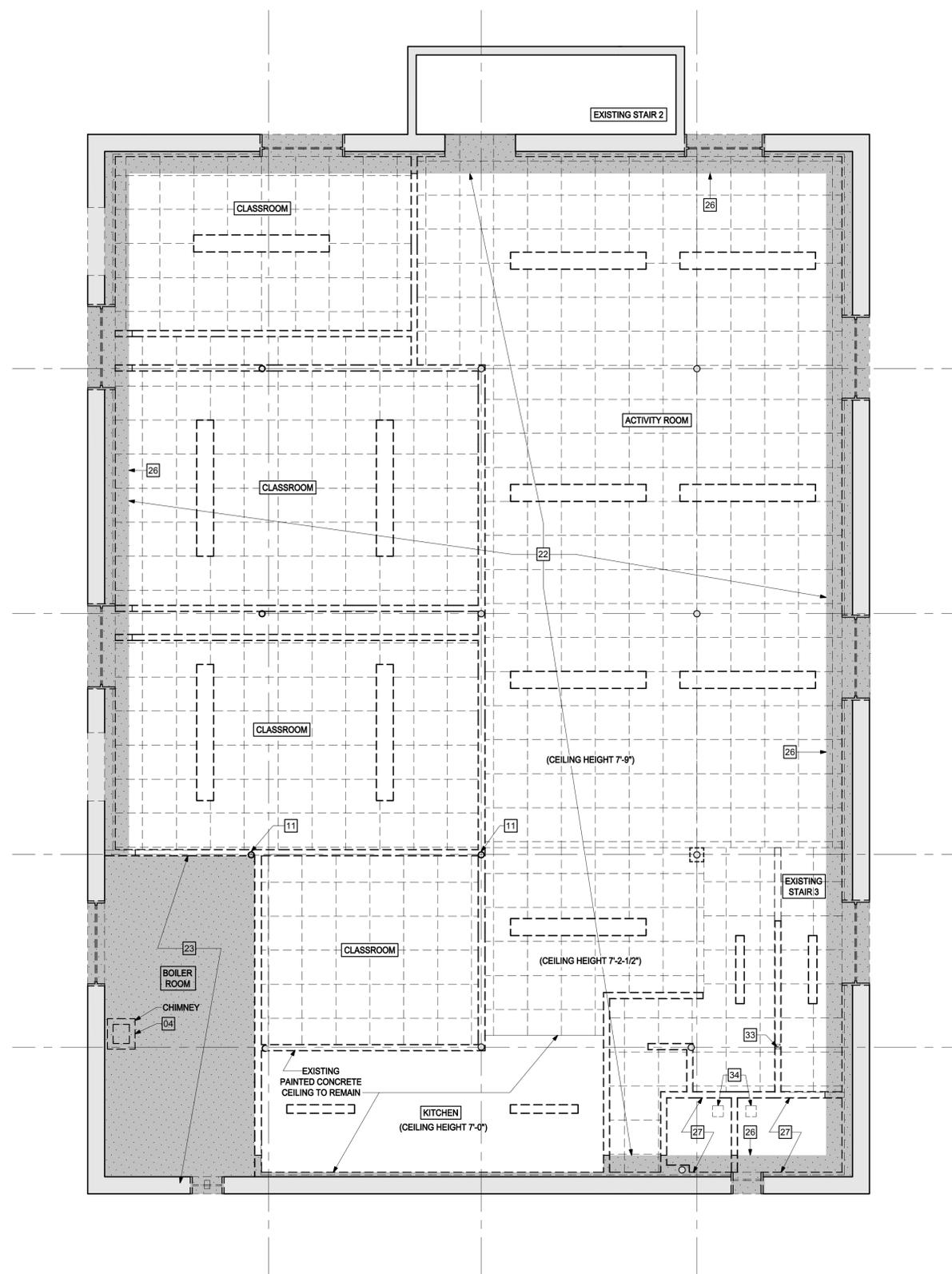
**DI-02**

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NOTE: SOLID LIGHT GRAY HATCH ( ) REPRESENTS EXISTING CONSTRUCTION.



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  - \* 23 REMOVE AND DISPOSE OF TRANSITE CEILING PANELS. SEE ASBESTOS ABATEMENT SPECIFICATION.
  - 24 REMOVE AND DISPOSE OF GYPSUM BOARD WALL. SEE ASBESTOS ABATEMENT SPECIFICATION FOR GYPSUM BOARD COMPOUND SEALANTS.
  - \* 25 REMOVE AND DISPOSE OF SINKS. SEE ASBESTOS ABATEMENT SPECIFICATION.
  - 26 REMOVE AND DISPOSE OF 1'-0" OF ACOUSTIC TILE CEILING AT EXTERIOR WALL INTERIOR FINISH.
  - 27 REMOVE AND DISPOSE OF ALL WOOD paneled CEILING.
  - 28 CAREFULLY REMOVE AND DISPOSE OF ALL EXISTING BASEBOARD AND HEAT.
  - 29 REMOVE AND SALVAGE EXISTING PEW SEAT AND BACK PANELS. COORDINATE STORAGE WITH OWNER.
  - 30 REMOVE AND DISPOSE OF INTERIOR INFILL WALLS FROM 3'-4" ABOVE FINISHED FLOOR TO UNDERSIDE OF BARREL CEILING.
  - 31 REMOVE AND DISPOSE OF SURFACE-MOUNTED LIGHT SCONCES.
  - 32 REMOVE AND DISPOSE OF CEILING MOUNTED LIGHT FIXTURES.
  - 33 REMOVE AND DISPOSE OF EXISTING WOOD POST.
  - 34 REMOVE AND DISPOSE OF EXISTING MEP. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
  - 35 REMOVE AND DISPOSE OF CONCRETE SLAB AND EXCAVATE SOIL TO ACCOMMODATE INSTALLATION OF FOUNDATIONS AND UTILITIES, SEE DRAWING 1/S1-01.

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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**

Drawing Title:  
**BASEMENT DEMOLITION REFLECTED CEILING PLAN**

Revisions:

Submission:  
**BIDDING DOCUMENTS**

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: EMC  
Scale: 1/4"=1'-0"

**DI-03**

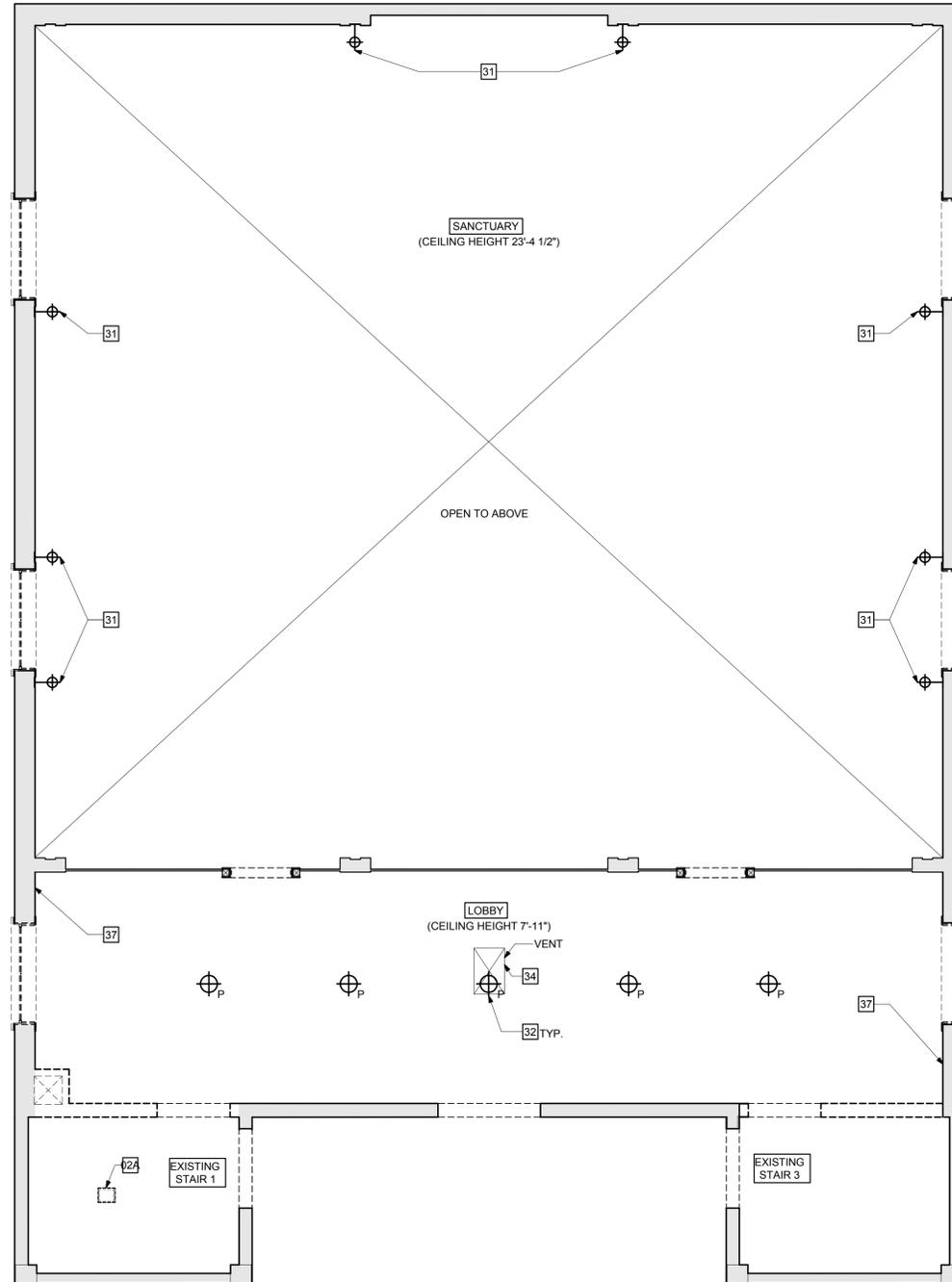
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**BASEMENT DEMOLITION REFLECTED CEILING PLAN**  
SCALE: 1/4"=1'-0"

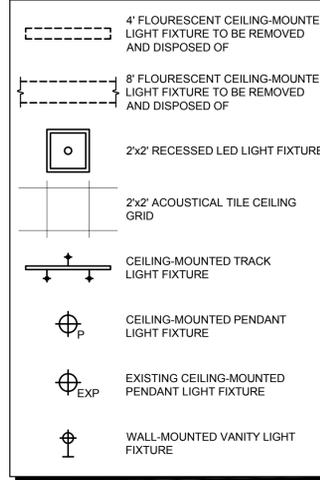


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**1** FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN  
SCALE: 1/4" = 1'-0"



**DEMOLITION REFLECTED CEILING PLAN LEGEND:**



**\* ABATEMENT NOTE:**  
EXISTING CONSTRUCTION WITHIN THE SCOPE OF WORK CONTAINS ASBESTOS THAT MUST BE REMOVED AND DISPOSED OF ACCORDING TO THE LOCAL, STATE, AND FEDERAL REGULATIONS AND GUIDELINES (REFER TO SPECIFICATIONS).

**GENERAL NOTES:**

1. ALL DIMENSIONS ARE ± V.I.F. AND CONTRACTOR SHALL VERIFY ALL DIMENSIONS, QUANTITIES AND CONDITIONS IN THE FIELD.
2. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BARRICADES TO PREVENT PEDESTRIANS FROM ACCESSING THE WORK AREA. ALL SIDEWALKS MUST REMAIN OPEN TO PEDESTRIAN TRAFFIC AT ALL TIMES FOR THE DURATION OF THE PROJECT.
3. ANY DISCREPANCIES NOTED BY THE CONTRACTOR BETWEEN OR WITHIN THE DRAWINGS AND/OR SPECIFICATIONS MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO BID SUBMISSIONS. THE MORE STRINGENT REQUIREMENT SHALL GOVERN AT THE FULL DISCRETION OF THE ARCHITECT.
4. SEE ASBESTOS ABATEMENT AND SAFE LEAD PRACTICE SPECIFICATION IN PROJECT MANUAL.
5. GENERAL CONTRACTOR TO COORDINATE FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL, FP,P,M,E DRAWINGS AND SPECIFICATION.

**DEMOLITION KEY NOTES:**

- \* 01 REMOVE AND DISPOSE OF EXISTING WINDOWS, SEE LEAD SAFE PRACTICE SPECIFICATION.
- 02 REMOVE AND DISPOSE OF EXISTING STAIR FINISH AND FINISH WALLS PRIOR TO ASBESTOS ABATEMENT.
- 024 REMOVE AND DISPOSE OF EXISTING STAIR FINISH AND FINISH WALLS. SEE 2 + 3 / S1-02 FOR STRUCTURAL DEMOLITION.
- \* 03 REMOVE AND DISPOSE OF INTERIOR WALL SHEATHING AND FRAMING. EXISTING SILL PLATES TO REMAIN. CUT WALLS 1'-0" FROM EXTERIOR FINISH WALLS AND LEAVE 1'-0" LENGTH OF WALL INTACT AT BASEMENT LEVEL. REMOVAL OF SILL PLATES AND 1'-0" WALL STUBS TO BE PART OF ABATEMENT SCOPE.
- 034 REMOVE AND DISPOSE OF INTERIOR WALLS.
- 04 REMOVE AND DISPOSE OF CHIMNEY.
- 044 REMOVE AND DISPOSE OF EXISTING ROOF AND ROOFING.
- 05 REMOVE AND DISPOSE OF EXISTING DOORS.
- 054 REMOVE AND SALVAGE EXISTING PAIR OF DOORS AND STORE FOR REUSE.
- 06 REMOVE AND DISPOSE OF ALTAR LOW WALLS AND THIRD RISER PLATFORM.
- 07 REMOVE AND SAFELY STORE EXISTING ALTAR.
- \* 08 REMOVE AND DISPOSE OF APPLIANCES, KITCHEN COUNTERTOPS, CABINETS AND SHELVING. SEE ASBESTOS ABATEMENT SPECIFICATION REGARDING SINK BOWL ABATEMENT.
- \* 09 REMOVE AND DISPOSE OF EXISTING TOILETS, SINKS AND PLUMBING FIXTURES.
- 10 REMOVE AND DISPOSE OF EXISTING FURNACE, WATER HEATER AND OIL TANK. SEE ASBESTOS ABATEMENT SPECIFICATION.
- 11 REMOVE AND RELOCATE EXISTING COLUMNS, COORDINATE WITH FLOOR PLAN A1-00.
- 12 REMOVE AND DISPOSE OF EXISTING INTERIOR RAMP.
- 13 REMOVE AND SALVAGE EXISTING GRANITE LANDING STONES. REMOVE AND DISPOSE OF SAND SETTING BED.
- 14 REMOVE AND SALVAGE EXISTING GRANITE STEPS. REMOVE AND DISPOSE OF SAND SETTING BED. TAG STAIRS PER DETAIL 1, 2, + 5/DS-02.
- 15 REMOVE AND DISPOSE OF EXISTING WOOD FLOOR AND RAISED FRAMING. SEE 2/S3-01 FOR STRUCTURAL DEMOLITION AT EXISTING STAIR 3 SEE 3/S1-01 FOR STRUCTURAL DEMOLITION AT STORAGE.
- 16 REMOVE AND DISPOSE OF EXISTING FLOOR PATCH.
- 17 CUT, REMOVE, AND DISPOSE OF EXISTING ASPHALT.
- 18 REMOVE AND DISPOSE OF EXISTING PLASTER WALLS.
- 19 REMOVE AND DISPOSE OF EXISTING CARPET.
- \* 20 REMOVE AND DISPOSE OF 9x9 VINYL COMPOSITION TILES AND 12x12 VINYL COMPOSITION TILE. SEE ASBESTOS ABATEMENT SPECIFICATION.
- \* 21 REMOVE AND DISPOSE OF WOOD LAMINATE BOARD, RIGID INSULATION AND GYPSUM WALL BOARD AT GRANITE AND CONCRETE WALLS. SEE ASBESTOS ABATEMENT SPECIFICATION FOR GLUE DAUBS REMOVED. CUT INTERIOR WALLS WITHIN 1'-0" OF EXTERIOR FINISH WALLS. REMAINING 1'-0" OF INTERIOR WALLS TO BE REMOVED AS PART OF ABATEMENT SCOPE.
- 22 REMOVE AND DISPOSE OF EXISTING ACOUSTIC TILE CEILING TIE AND GRID.
- \* 23 REMOVE AND DISPOSE OF TRANSITE CEILING PANELS. SEE ASBESTOS ABATEMENT SPECIFICATION.
- 24 REMOVE AND DISPOSE OF GYPSUM BOARD WALL. SEE ASBESTOS ABATEMENT SPECIFICATION FOR GYPSUM BOARD COMPOUND SEALANTS.
- \* 25 REMOVE AND DISPOSE OF (2) SINKS. SEE ASBESTOS ABATEMENT SPECIFICATION.
- 26 REMOVE AND DISPOSE OF 1'-0" OF ACOUSTIC TILE CEILING WITH EXTERIOR WALL INTERIOR FINISH.
- 27 REMOVE AND DISPOSE OF WOOD paneled ceiling.
- 28 CAREFULLY REMOVE AND DISPOSE OF EXISTING BASEBOARD AND HEAT.
- 29 REMOVE AND SALVAGE EXISTING PEW SEAT AND BACK PANELS. COORDINATE STORAGE WITH OWNER.
- 30 REMOVE AND DISPOSE OF INTERIOR INFILL WALLS FROM 3'-4" ABOVE FINISHED FLOOR TO UNDERSIDE OF BARREL CEILING.
- 31 REMOVE AND DISPOSE OF SURFACE-MOUNTED LIGHT SCONCES.
- 32 REMOVE AND DISPOSE OF CEILING MOUNTED LIGHT FIXTURES.
- 33 REMOVE AND DISPOSE OF EXISTING WOOD POST.
- 34 REMOVE AND DISPOSE OF EXISTING MEP. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- 35 REMOVE AND DISPOSE OF CONCRETE SLAB, SEE DRAWING 1/S1-01.
- 36 REMOVE AND DISPOSE OF EXISTING EXTERIOR WALL AND ADJACENT CLAPBOARDS FOR INSTALLATION OF NEW EXTERIOR DOOR
- 37 REMOVE AND DISPOSE OF EXISTING LATH AND PLASTER CEILING



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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**

Drawing Title:  
**FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN**

Revisions:

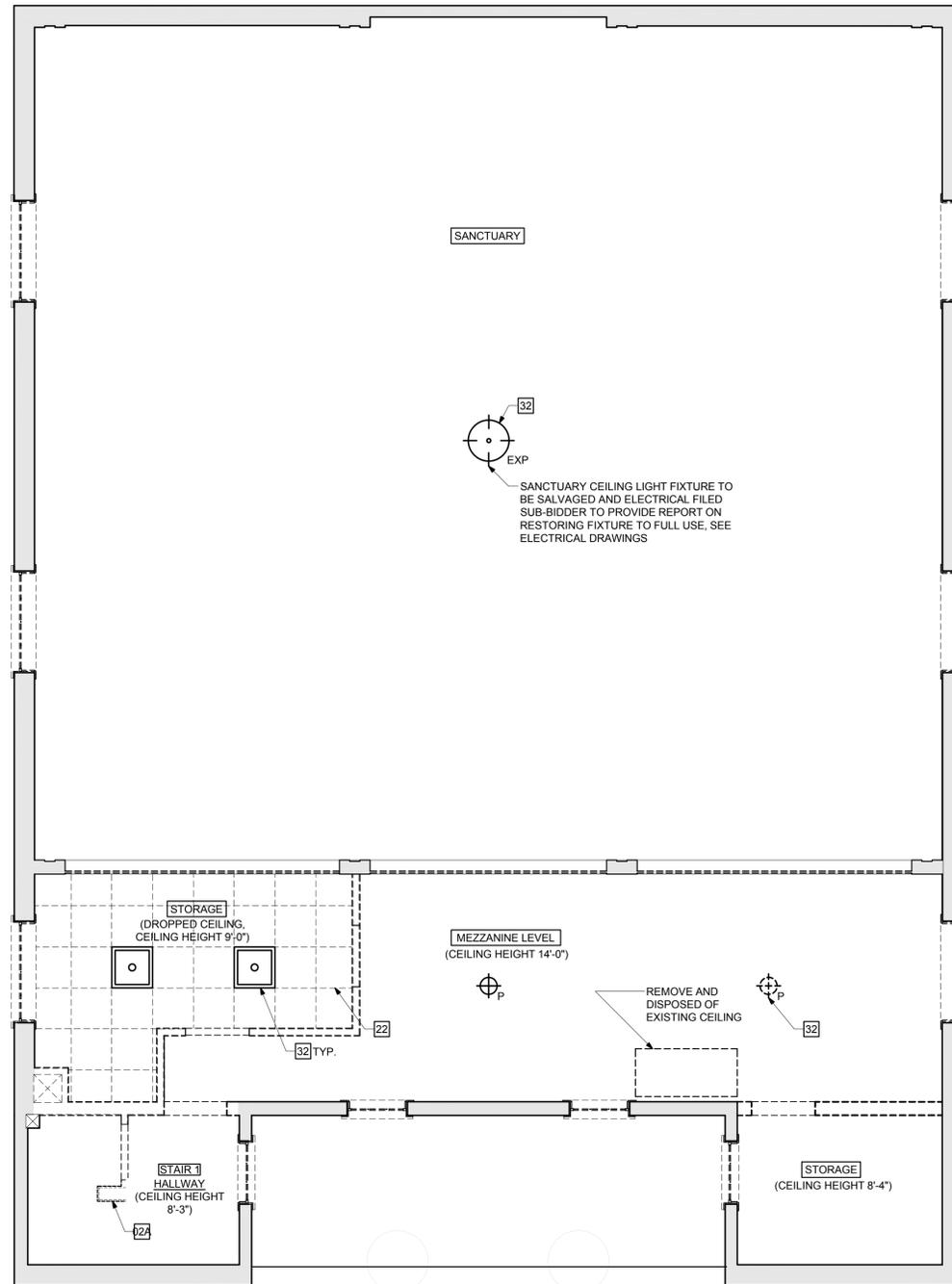
Submission:  
**BIDDING DOCUMENTS**

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: MVM/PT  
Scale: 1/4" = 1'-0"

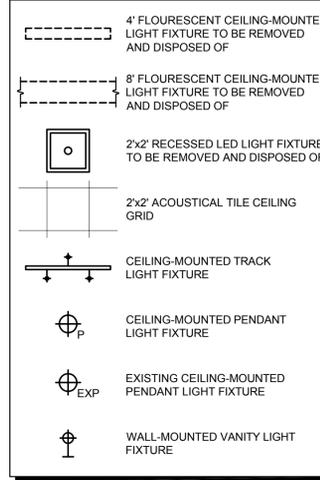
**DI-04**

P:\2017\17009\AutoCAD\SHETS\Ater\_10.03.2018 (RD as PM)\17009 D1-05 Mezzanine Demolition Reflected Ceiling Plan.dwg Oct 31, 2018 - 4:11 pm FPARSA

**1** MEZZANINE DEMOLITION REFLECTED CEILING PLAN  
SCALE: 1/4" = 1'-0"



**DEMOLITION REFLECTED CEILING PLAN LEGEND:**



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- SEE ASBESTOS ABATEMENT AND SAFE LEAD PRACTICE SPECIFICATION IN PROJECT MANUAL.
- GENERAL CONTRACTOR TO COORDINATE FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL, FP,P,ME DRAWINGS AND SPECIFICATION.

**DEMOLITION KEY NOTES:**

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- 02 REMOVE AND DISPOSE OF EXISTING STAIR FINISH AND FINISH WALLS PRIOR TO ASBESTOS ABATEMENT.
- 02A REMOVE AND DISPOSE OF EXISTING STAIR FINISH AND FINISH WALLS. SEE 2 + 3 / S1-02 FOR STRUCTURAL DEMOLITION.
- \* 03 REMOVE AND DISPOSE OF EXISTING INTERIOR WALL SHEATHING AND FRAMING. EXISTING SILL PLATES TO REMAIN. CUT WALLS 1'-0" FROM EXTERIOR FINISH WALLS AND LEAVE 1'-0" LENGTH OF WALL INTACT AT BASEMENT LEVEL. REMOVAL OF SILL PLATES AND 1'-0" WALL STUBS TO BE PART OF ABATEMENT SCOPE.
- 03A REMOVE AND DISPOSE OF EXISTING INTERIOR WALLS.
- 04 REMOVE AND DISPOSE OF EXISTING CHIMNEY.
- 04A REMOVE AND DISPOSE OF EXISTING ROOF AND ROOFING TO ACCOMMODATE INSTALLATION OF.
- 05 REMOVE AND DISPOSE OF EXISTING DOORS.
- 05A CAREFULLY REMOVE AND SALVAGE EXISTING PAIR OF DOORS AND STORE FOR REUSE.
- 06 REMOVE AND DISPOSE OF ALTAR LOW WALLS AND THIRD RISER PLATFORM.
- 07 CAREFULLY REMOVE AND SAFELY STORE EXISTING ALTAR.
- \* 08 REMOVE AND DISPOSE OF EXISTING APPLIANCES, KITCHEN COUNTERTOPS, CABINETS AND SHELVING. SEE ASBESTOS ABATEMENT SPECIFICATION REGARDING SINK BOWL ABATEMENT.
- \* 09 REMOVE AND DISPOSE OF EXISTING TOILETS, SINKS AND PLUMBING FIXTURES.
- 10 REMOVE AND DISPOSE OF EXISTING FURNACE, WATER HEATER AND OIL TANK. SEE ASBESTOS ABATEMENT SPECIFICATION.
- 11 REMOVE AND RELOCATE EXISTING COLUMNS, COORDINATE WITH FLOOR PLAN A1-00.
- 12 REMOVE AND DISPOSE OF EXISTING INTERIOR WOOD RAMP.
- 13 CAREFULLY REMOVE AND SALVAGE EXISTING GRANITE LANDING STONES. REMOVE AND DISPOSE OF SAND SETTING BED.
- 14 CAREFULLY REMOVE AND SALVAGE EXISTING GRANITE STEPS. REMOVE AND DISPOSE OF SAND SETTING BED. TAG STAIRS PER DETAIL 1, 2, + 5/05-02.
- 15 REMOVE AND DISPOSE OF EXISTING WOOD FLOOR AND RAISED FRAMING. SEE 2/S3-01 FOR STRUCTURAL DEMOLITION AT EXISTING STAIR 3, SEE 3/S1-01 FOR STRUCTURAL DEMOLITION AT STORAGE.
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- 17 CUT, REMOVE, AND DISPOSE OF EXISTING ASPHALT TO ACCOMMODATE INSTALLATION OF GRANITE STONES.
- 18 REMOVE AND DISPOSE OF EXISTING PLASTER FINISH ON WALLS.
- 19 REMOVE AND DISPOSE OF EXISTING CARPET.
- \* 20 REMOVE AND DISPOSE OF EXISTING 9x9 VINYL COMPOSITION TILES AND 12x12 VINYL COMPOSITION TILE, SEE ASBESTOS ABATEMENT SPECIFICATION.
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- \* 25 REMOVE AND DISPOSE OF SINKS. SEE ASBESTOS ABATEMENT SPECIFICATION.
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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**

Drawing Title:  
**MEZZANINE DEMOLITION REFLECTED CEILING PLAN**

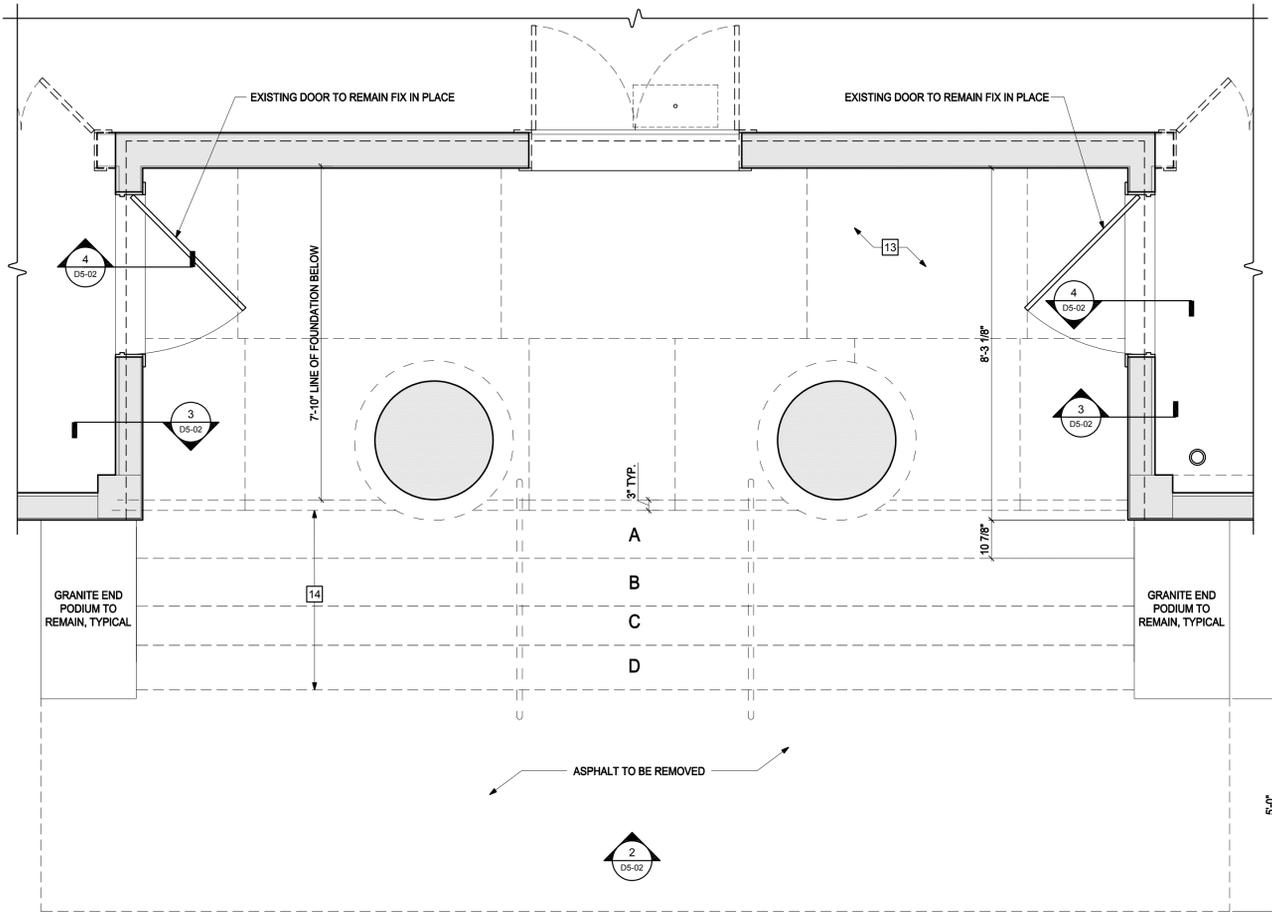
Revisions:

Submission:  
**BIDDING DOCUMENTS**

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: MVM/PT  
Scale: 1/4" 1'-0"

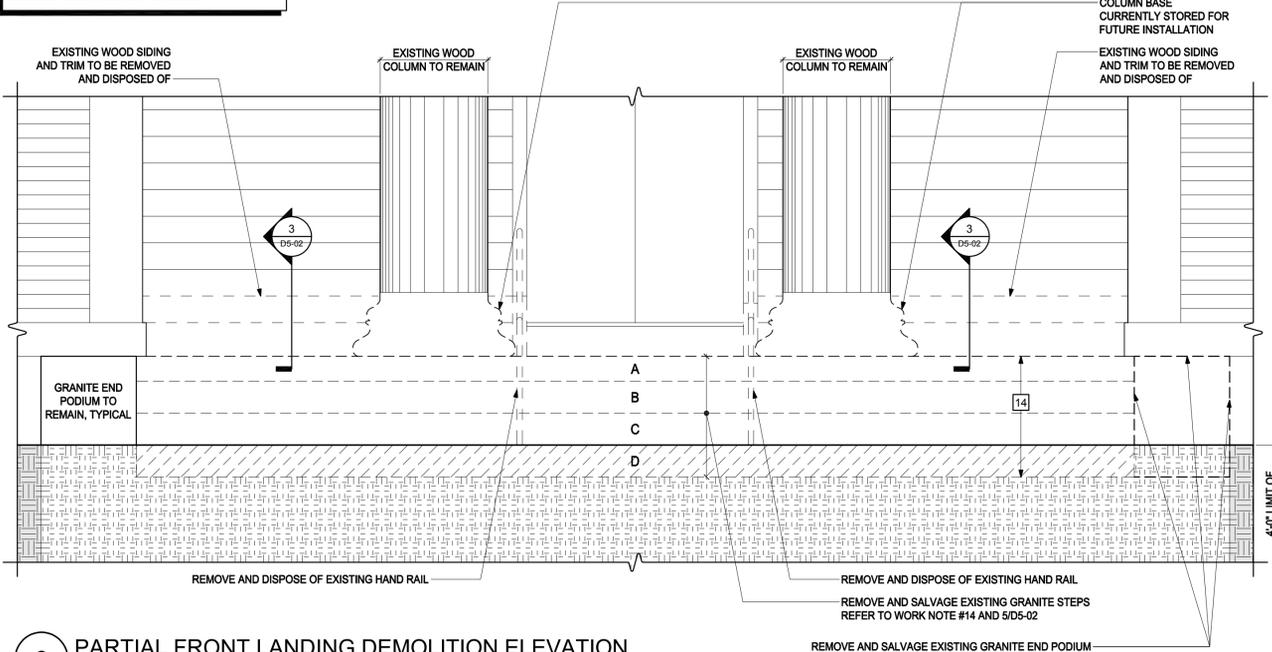
**D1-05**

NOTE: SOLID LIGHT GRAY HATCH ( ) REPRESENTS EXISTING CONSTRUCTION TO REMAIN.



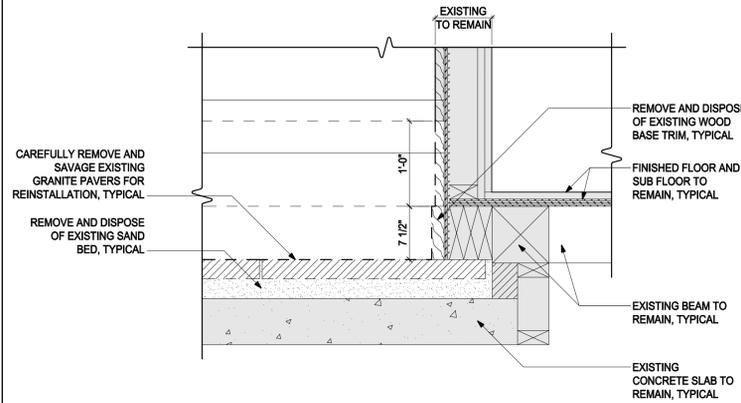
1 ENLARGED FRONT LANDING DEMOLITION PLAN  
SCALE: 1/2"=1'-0"

NOTE: SOLID LIGHT GRAY HATCH ( ) REPRESENTS EXISTING CONSTRUCTION TO REMAIN.



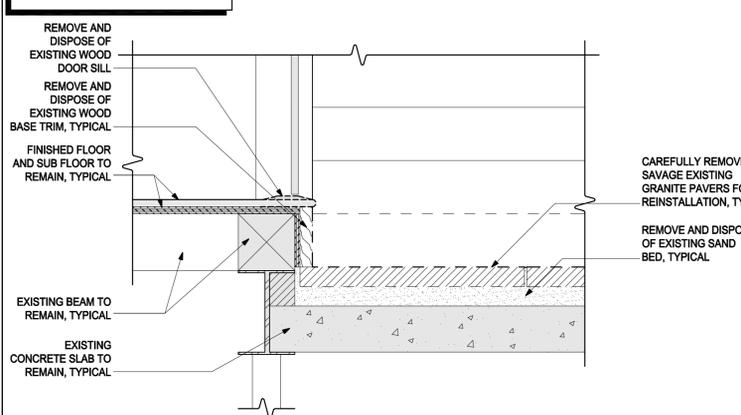
2 PARTIAL FRONT LANDING DEMOLITION ELEVATION  
SCALE: 1/2"=1'-0"

NOTE: SOLID LIGHT GRAY HATCH ( ) REPRESENTS EXISTING CONSTRUCTION.



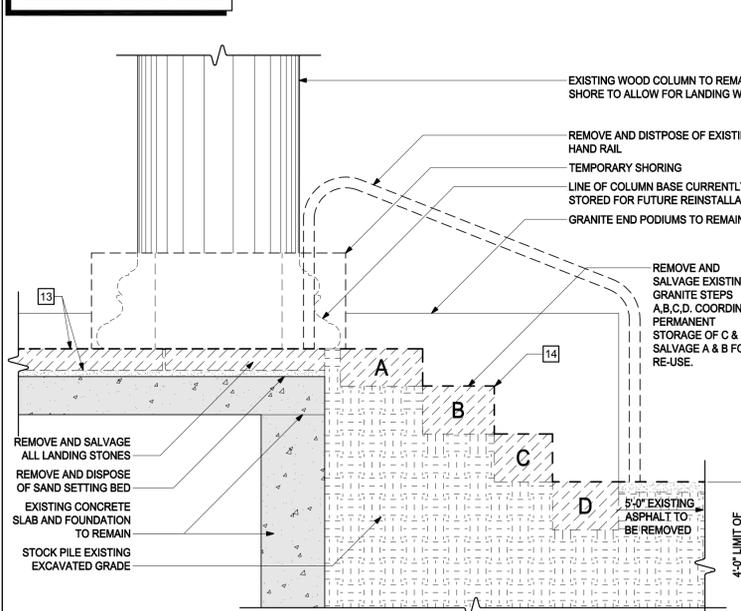
3 DEMOLITION SECTION AT SIDE WALLS  
SCALE: 1"=1'-0"

NOTE: SOLID LIGHT GRAY HATCH ( ) REPRESENTS EXISTING CONSTRUCTION.



4 DEMOLITION SECTION AT THRESHOLD  
SCALE: 1"=1'-0"

NOTE: SOLID LIGHT GRAY HATCH ( ) REPRESENTS EXISTING CONSTRUCTION.



5 DEMOLITION STAIR SECTION  
SCALE: 3/4"=1'-0"

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FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



TOWN OF TYNGSBOROUGH

FRONT LANDING ENLARGED DEMOLITION PLAN AND DETAILS

Drawing Title:

Revisions:

Submission:

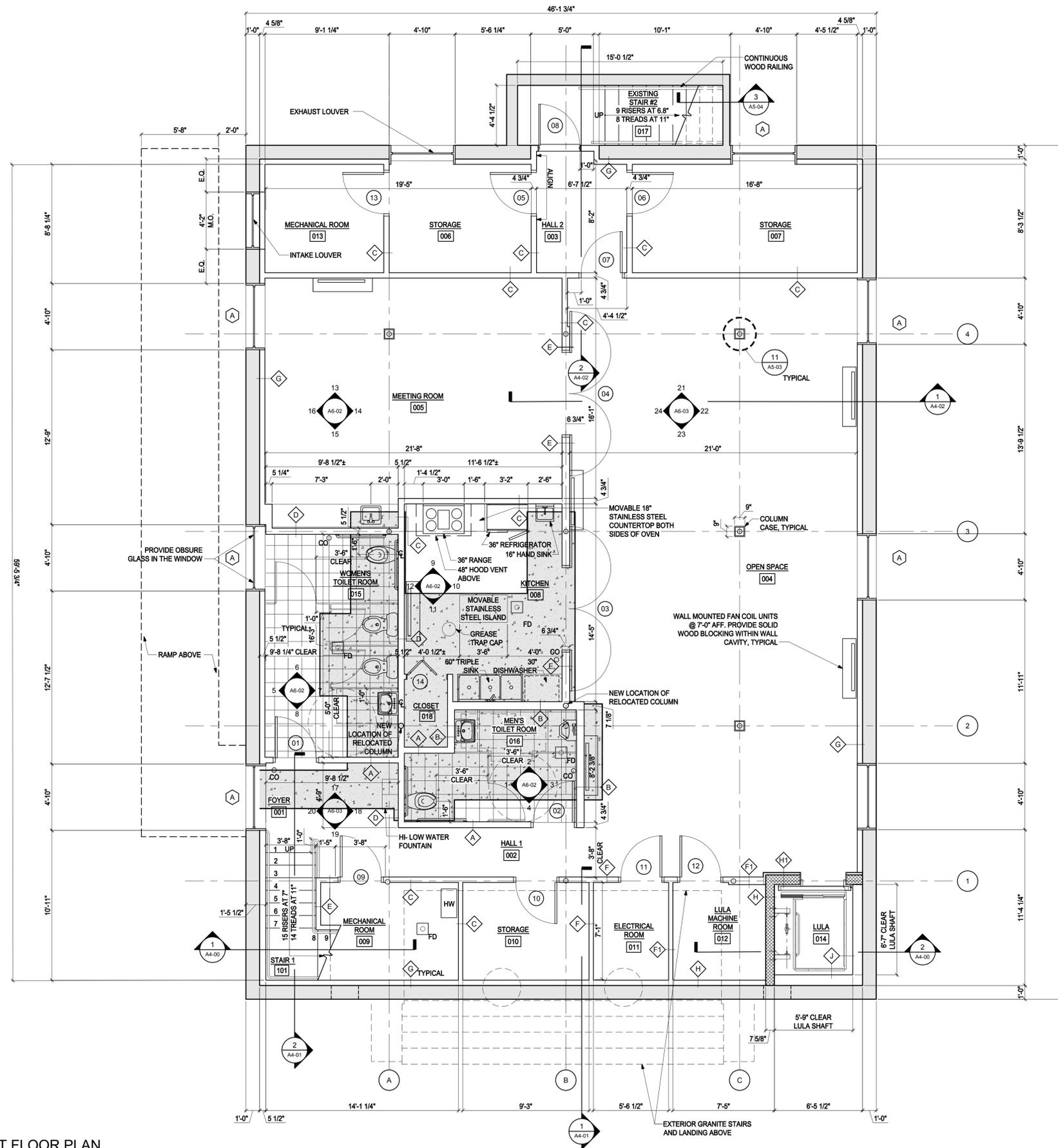
BIDDING DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: AMW  
Drawn By: LY/PT  
Scale: AS NOTED

D5-02

P:\2017\17009\AutoCAD\SHETS\After\_10.03.2018 (RD as PM)\17009 AS-02 + D5-02\_Front Landing.dwg Oct 31, 2018 - 4:13 pm FRABSA

NOTE: SOLID LIGHT GRAY HATCH REPRESENTS EXISTING CONSTRUCTION TO REMAIN.



**1** BASEMENT FLOOR PLAN  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

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4. SEE ASBESTOS ABATEMENT AND SAFE LEAD PRACTICE SPECIFICATION IN PROJECT MANUAL.
5. GENERAL CONTRACTOR TO COORDINATE FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL, FP, P, ME DRAWINGS AND SPECIFICATION.

**FLOOR PLAN LEGEND**

- WINDOW TAG, TYPICAL
- WALL TYPE TAG, SEE SHEET A6-01, TYPICAL
- DOOR TAG, TYPICAL
- GRID REFERENCE DATUM LINE AND TAG, TYPICAL
- CERAMIC TILE FLOORING, TYPICAL
- EXISTING ROOF TO REMAIN, TYPICAL
- GRANITE LANDING AND STEPS, TYPICAL
- AREA OF NEW WOOD FLOORING TO MATCH EXISTING
- EXISTING WALL TO REMAIN, TYPICAL
- NEW WALL, REFER TO SHEET A6-01
- CMU WALL TYPE H AT LULA SHAFT, REFER TO SHEET A6-01
- FLOOR DRAIN, TYPICAL
- FLOOR DRAIN CLEAN OUT, TYPICAL
- ROOF SLOPE, TYPICAL
- NEW 4" CONCRETE SLAB WITH 6" x 6" W1.2 x W1.2 WWF REINFORCING ON 6" COMPACTED GRAVEL. THICKEN SLAB TO 8" UNDER ALL PARTITIONS.
- EXISTING COLUMN



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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**

Drawing Title:

**BASEMENT FLOOR PLAN**

Revisions:

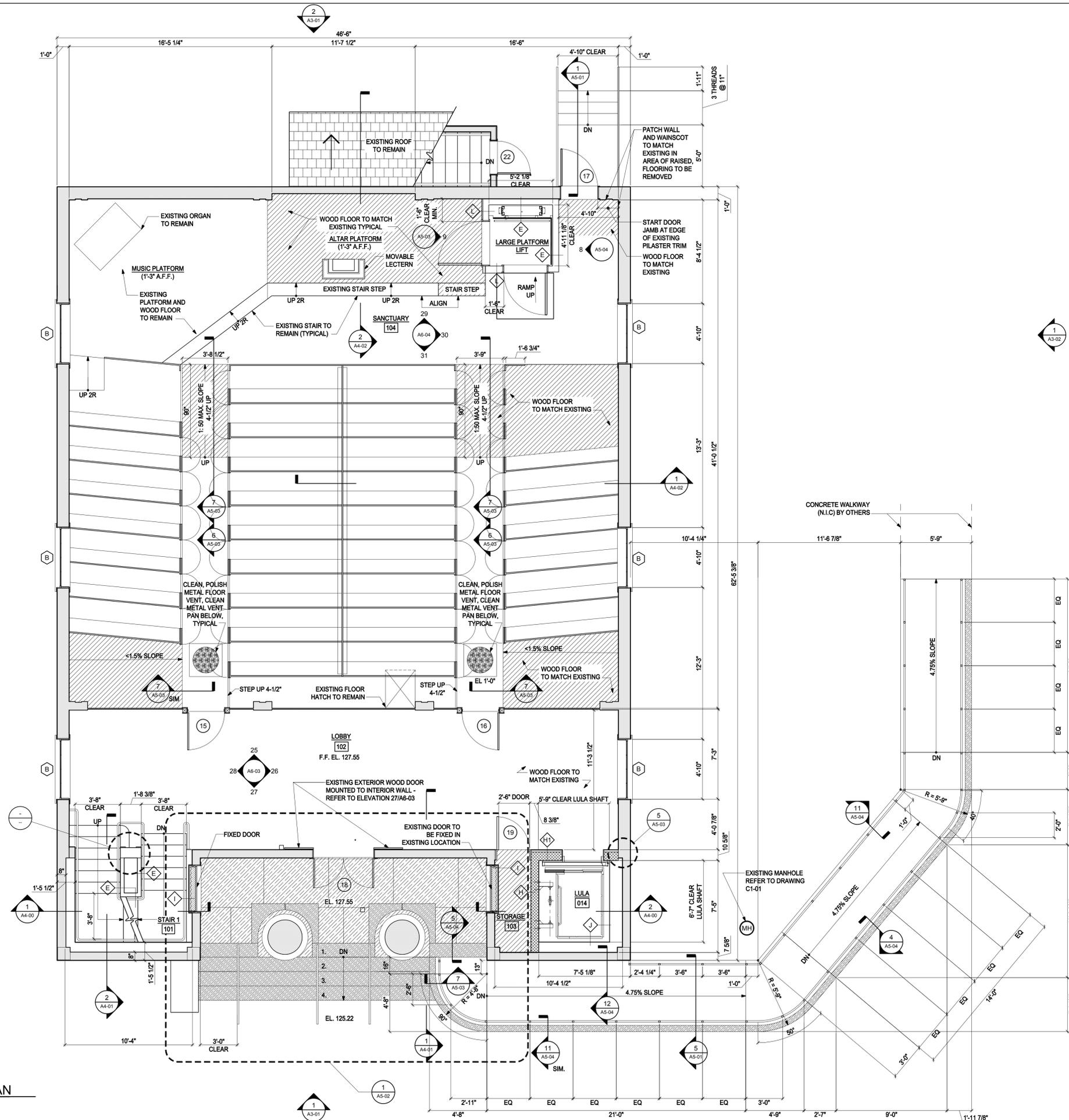
**BIDDING DOCUMENTS**

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: BE/BPE/MC  
Scale: 1/4" = 1'-0"

**A1-00**

P:\2017\17009\AutoCAD\DWG\Sheets\A1-00 Basement Floor Plan.dwg Oct 31, 2018 - 4:11 pm FPARCA

NOTE: SOLID LIGHT GRAY HATCH ( ) REPRESENTS EXISTING CONSTRUCTION TO REMAIN.

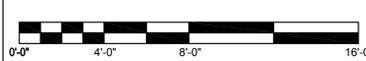


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- (A) WINDOW TAG, TYPICAL
- (C) WALL TYPE TAG, SEE SHEET A6-01, TYPICAL
- (DB) DOOR TAG, TYPICAL
- (4) GRID REFERENCE DATUM LINE AND TAG, TYPICAL
- ( ) CERAMIC TILE FLOORING, TYPICAL
- ( ) EXISTING ROOF TO REMAIN, TYPICAL
- ( ) GRANITE LANDING AND STEPS, TYPICAL
- ( ) AREA OF NEW WOOD FLOORING TO MATCH EXISTING
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- ( ) CMU WALL TYPE H AT LULA SHAFT, REFER TO SHEET A6-01
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- (CO) FLOOR DRAIN CLEAN OUT, TYPICAL
- ( ) ROOF SLOPE, TYPICAL
- ( ) NEW 4" CONCRETE SLAB WITH 6" x 6" W1.2 x W1.2 WWF REINFORCING ON 6" COMPACTED GRAVEL. THICKEN SLAB TO 8" UNDER ALL PARTITIONS.
- (O) EXISTING COLUMN



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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**

Drawing Title:

**FIRST FLOOR PLAN**

Revisions:

Submission:

**BIDDING DOCUMENTS**

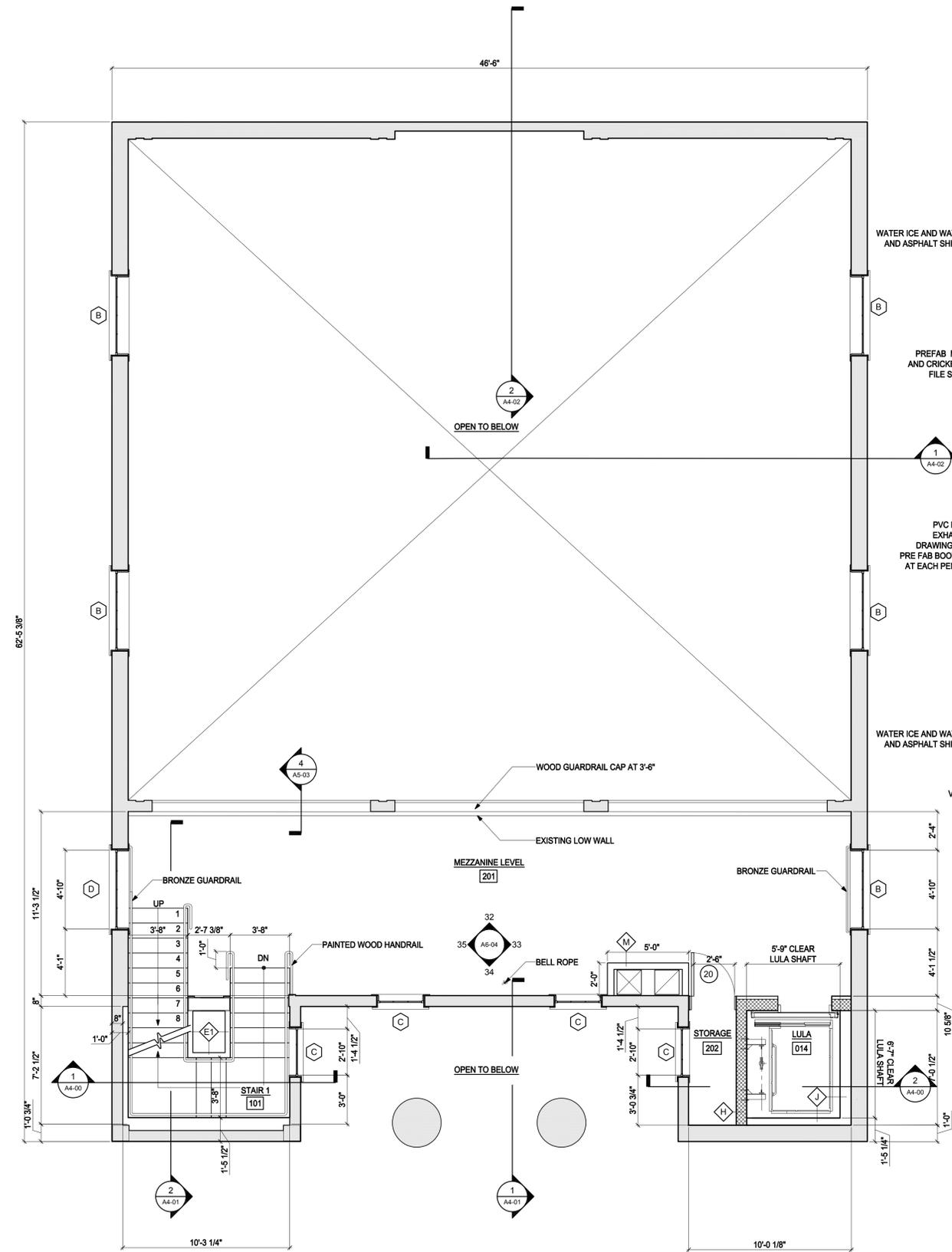
Date: 10/31/2018  
 Project Number: 17009  
 Project Manager: RD  
 Drawn By: EMC/BJ/PT  
 Scale: 1/4" = 1'-0"

**A1-01**

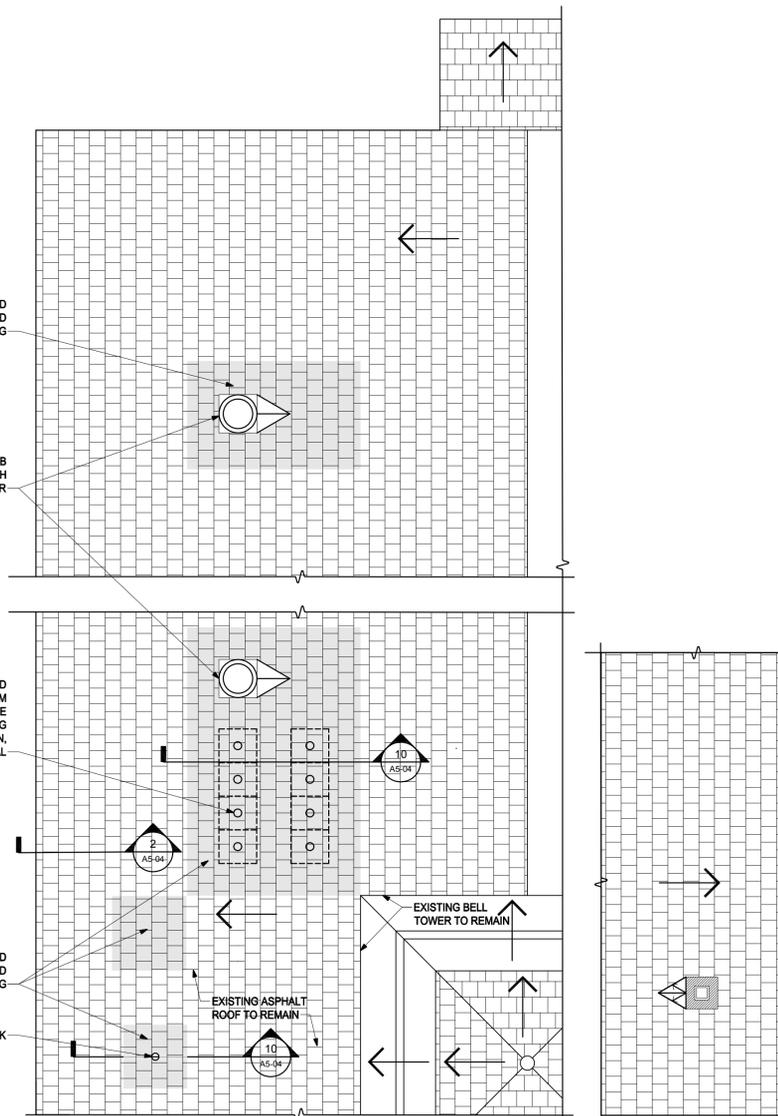
P:\2017\17009\AutoCAD\DWG\A1-01 First Floor Plan.dwg Oct 31, 2018 - 4:14 pm FP/BSA

**1 FIRST FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"

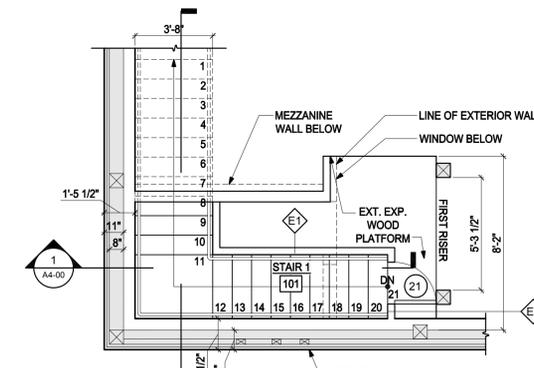
NOTE: SOLID LIGHT GRAY HATCH ( ) REPRESENTS EXISTING CONSTRUCTION TO REMAIN.



1 MEZZANINE FLOOR PLAN  
SCALE: 1/4" = 1'-0"



3 PARTIAL ROOF PLAN  
SCALE: 1/4" = 1'-0"



2 ATTIC PARTIAL PLAN  
SCALE: 1/4" = 1'-0"

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FIRST PARISH  
MEETING HOUSE  
INTERIOR  
RENOVATION



TOWN OF  
TYNGSBOROUGH

MEZZANINE,  
ATTIC, AND ROOF  
PLANS

Revisions:

BIDDING  
DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: EMC  
Scale: 1/4" = 1'-0"

AI-02

P:\2017\17009\AutoCAD\SHETS\Ater\_10.03.2018 (RD as PM)\17009 AI-02 Mezzanine Floor Plan.dwg Oct 31, 2018 - 4:14 pm. FPARSA

NOTE: SOLID LIGHT GRAY HATCH REPRESENTS EXISTING CONSTRUCTION.



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**LEGEND:**

- 2x2 RECESSED LED LIGHT FIXTURE
- 2x2 ACOUSTICAL TILE CEILING GRID @ 7'-9"
- CEILING-MOUNTED TRACK LIGHT FIXTURE
- CEILING-MOUNTED PENDANT LIGHT FIXTURE
- EXISTING CEILING-MOUNTED PENDANT LIGHT FIXTURE
- WALL-MOUNTED VANITY LIGHT FIXTURE
- 2x2 SURFACE-MOUNTED LED LIGHT FIXTURE
- LED CEILING MOUNTED LIGHT
- GRID REFERENCE DATUM LINE AND TAG, TYPICAL
- ACOUSTICAL TILE CEILING SOFFIT @ 7'-0" AFF, TYPICAL
- 16" DIAMETER SUPPLY REGISTER
- 8" x 18" SUPPLY REGISTER
- 28" x 28" RETURN REGISTER
- CONCEALED SPRINKLER HEAD, TYPICAL
- EXIT SIGN, TYPICAL
- 6" REGISTER, TYPICAL
- SMOKE DETECTOR, TYPICAL
- OCCUPANCY SENSOR, TYPICAL
- HEAT DETECTOR, TYPICAL
- REMOTE LED INDICATOR



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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**

Drawing Title:

**BASEMENT REFLECTED CEILING PLAN**

Revisions:

Submission:

**BIDDING DOCUMENTS**

Date: 10/31/2018  
 Project Number: 17009  
 Project Manager: RD  
 Drawn By: EMC/MMM  
 Scale: 1/4"=1'-0"

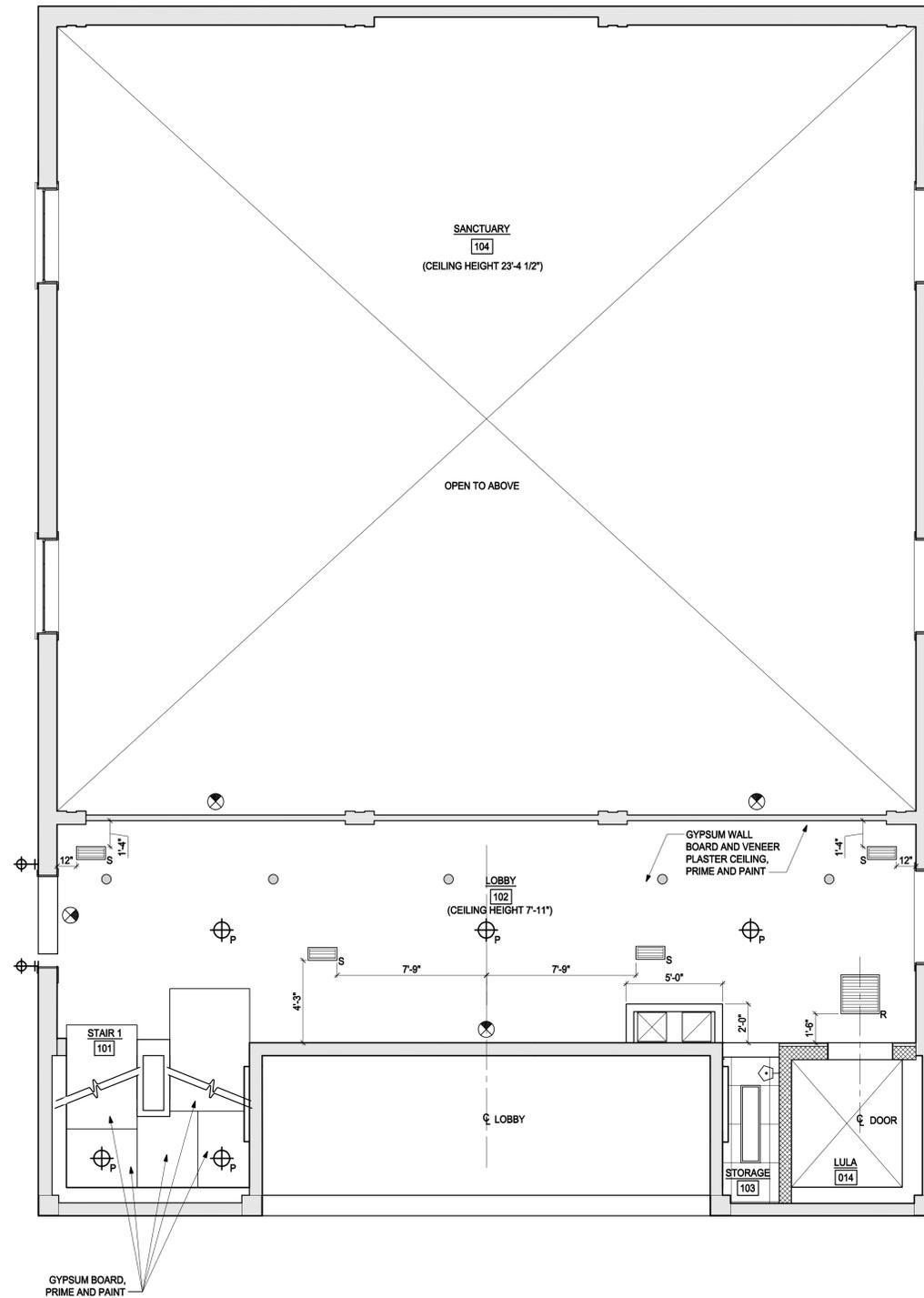
**A1-03**

**1 BASEMENT REFLECTED CEILING PLAN**

SCALE: 1/4"=1'-0"

P:\2017\17009\AutoCAD\SHETS\Ater\_10.03.2018 (RD as PM)\17009 A1-03 Basement Reflected Ceiling Plan.dwg Oct 31, 2018 - 4:14 pm FPARSA

NOTE: SOLID LIGHT GRAY HATCH ( ) REPRESENTS EXISTING CONSTRUCTION.



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  - EXISTING CEILING-MOUNTED PENDANT LIGHT FIXTURE
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  - 2x2 SURFACE-MOUNTED LED LIGHT FIXTURE
  - LED CEILING MOUNTED LIGHT
  - GRID REFERENCE DATUM LINE AND TAG, TYPICAL
  - SOFFIT @ 7'-0", TYPICAL
  - 16" DIAMETER SUPPLY REGISTER
  - 8" x 18" SUPPLY REGISTER
  - 28" x 28" RETURN REGISTER
  - CONCEALED SPRINKLER HEAD, TYPICAL
  - EXIT SIGN, TYPICAL
  - 6" REGISTER, TYPICAL
  - SMOKE DETECTOR, TYPICAL
  - SENSOR, TYPICAL
  - HEAT DETECTOR, TYPICAL
  - REMOTE UED INDICATOR



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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**

Drawing Title:  
**FIRST FLOOR REFLECTED CEILING PLAN**

Revisions:

Submission:  
**BIDDING DOCUMENTS**

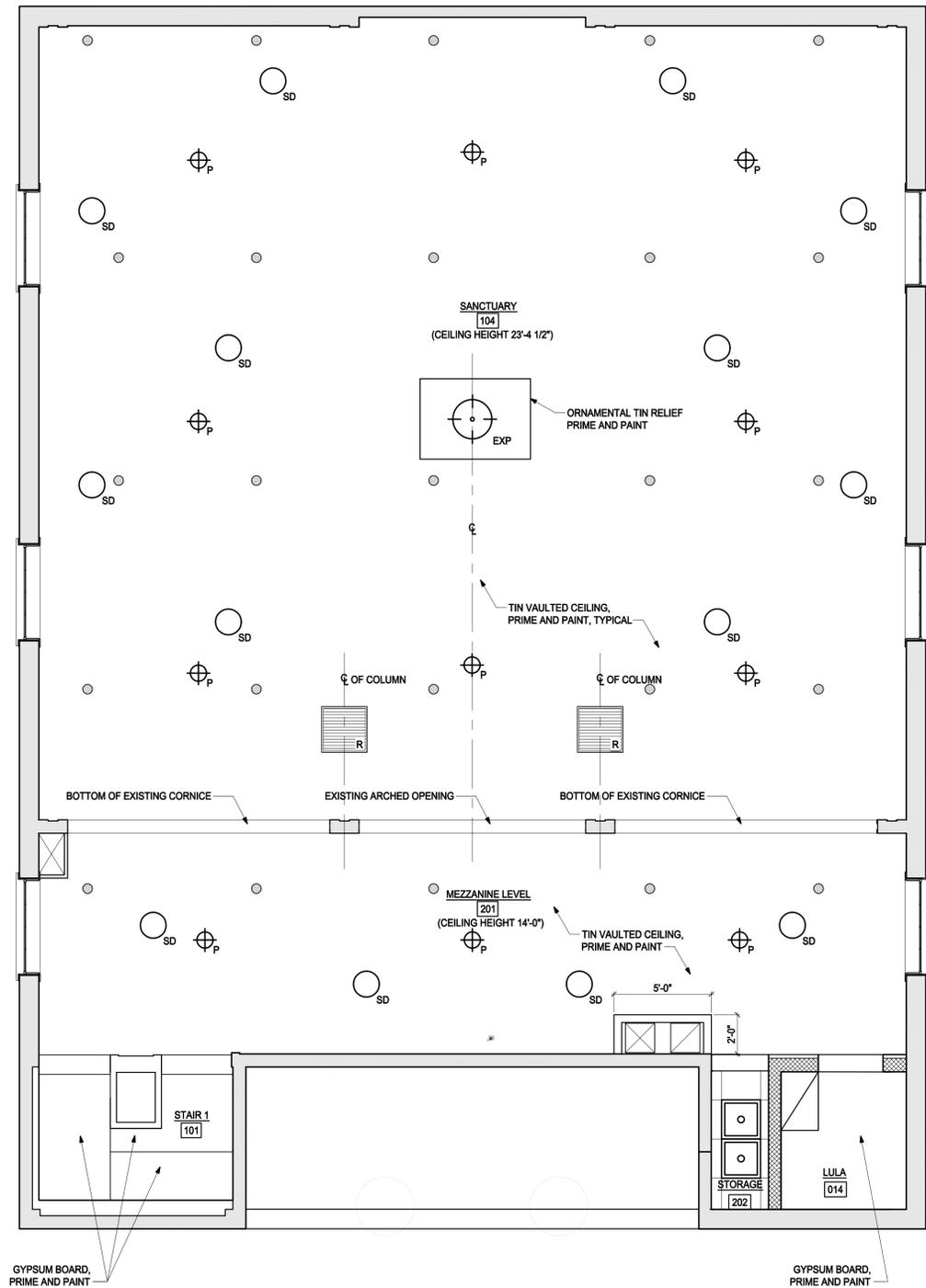
Date: 10/31/2018  
 Project Number: 17009  
 Project Manager: RD  
 Drawn By: EMC  
 Scale: 1/4"=1'-0"

**AI-04**

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**1 FIRST FLOOR REFLECTED CEILING PLAN**  
 SCALE: 1/4"=1'-0"

NOTE: SOLID LIGHT GRAY HATCH REPRESENTS EXISTING CONSTRUCTION.



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**FIRST PARISH  
MEETING HOUSE  
INTERIOR  
RENOVATION**



**TOWN OF  
TYNGSBOROUGH**

Drawing Title:  
**MEZZANINE  
REFLECTED  
CEILING PLAN**

Revisions:

Submission:  
**BIDDING  
DOCUMENTS**

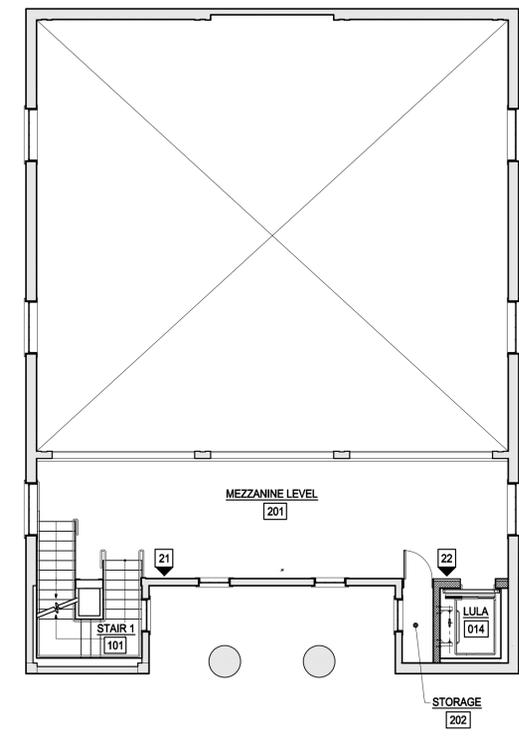
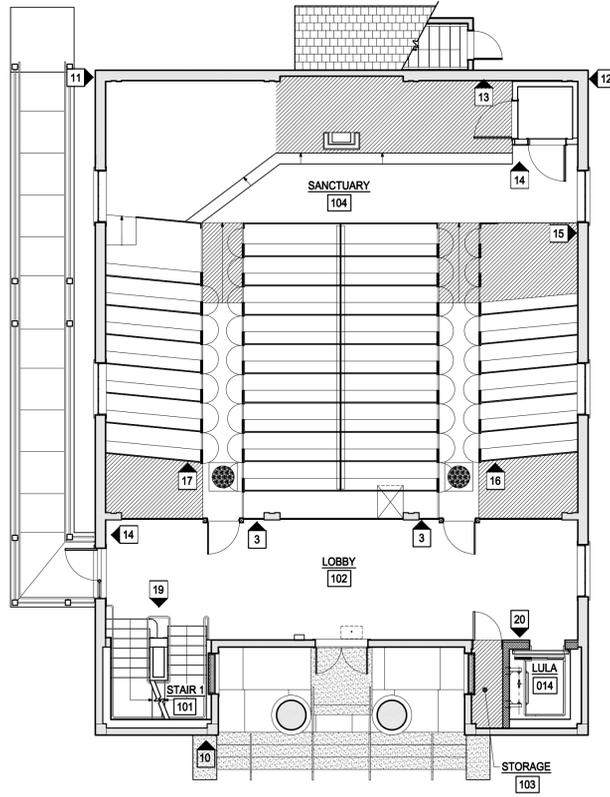
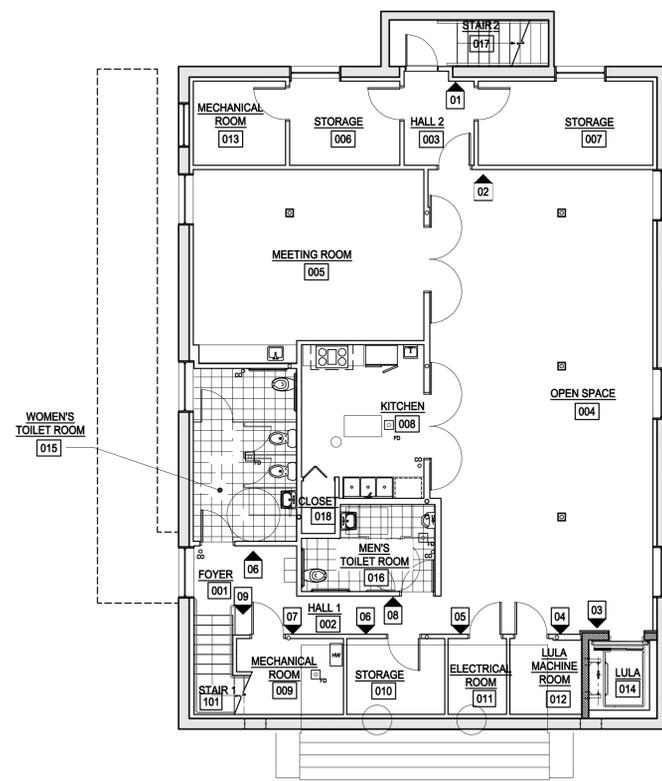
Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: EMC  
Scale: 1/4"=1'-0"

**A1-05**

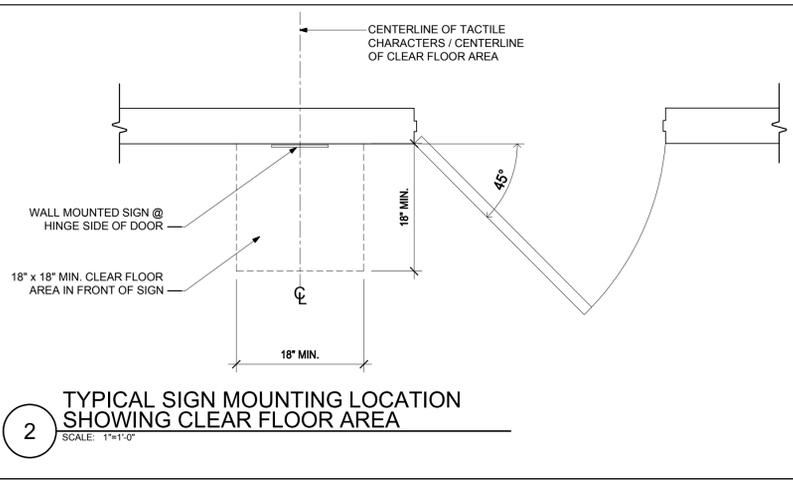
**1 MEZZANINE REFLECTED CEILING PLAN**  
SCALE: 1/4"=1'-0"



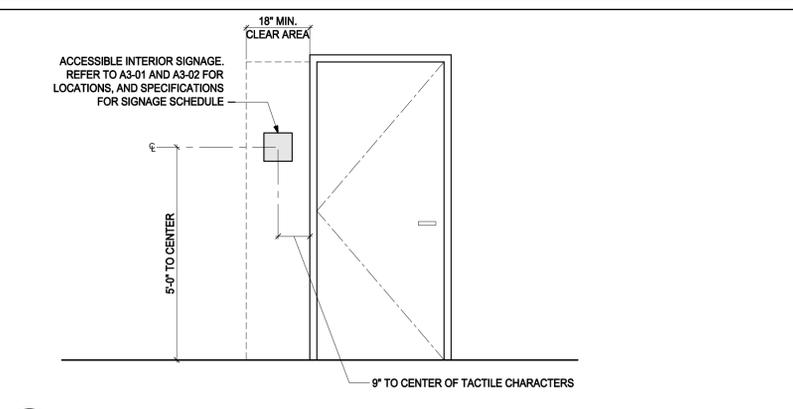
P:\2017\17009\AutoCAD\SHETS\A1-05 Mezzanine Reflected Ceiling Plan.dwg Oct 31, 2018 - 4:14 pm FPARSA



**1 SIGNAGE KEY PLAN**  
SCALE: N.T.S.



**2 TYPICAL SIGN MOUNTING LOCATION SHOWING CLEAR FLOOR AREA**  
SCALE: 1/4"=1'-0"



**3 TYPICAL MOUNTING POSITIONING**  
SCALE: 1/2"=1'-0"

I		V	
II		VI	
III		VII	
IV		VIII	

**4 SIGNAGE TYPE KEY**  
SCALE: N.T.S.

- TYPICAL SIGNAGE NOTES**
1. RAISED CHARACTERS TO BE 1/32" MINIMUM ABOVE BACKGROUND
  2. ALL CHARACTERS TO BE UPPERCASE
  3. SANS SERIF CHARACTERS
  4. 1" MINIMUM / 5" MAXIMUM CHARACTER HEIGHT
  5. GRADE 2 BRAILLE WITH DOMED OR ROUND SHAPE

SIGN #	SIGN TYPES	REMARKS
1	I	
2	I	
3	II	
4	IV	
5	IV	
6	IV	
7	IV	
8	IV	
9	I	
10	V	
11	V	
12	V	
13	II	
14	II	
15	VI	
16	VI	
17	VI	
18	IX	
19	I	
20	II	
21	I	
22	II	

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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**

**MAAB/ADA SIGNAGE**

Revisions:

**BIDDING DOCUMENTS**

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: MVM/BE/JP  
Scale: AS NOTED

**A1-06**

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# FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



TOWN OF  
TYNGSBOROUGH

Drawing Title:

## EAST AND WEST ELEVATIONS

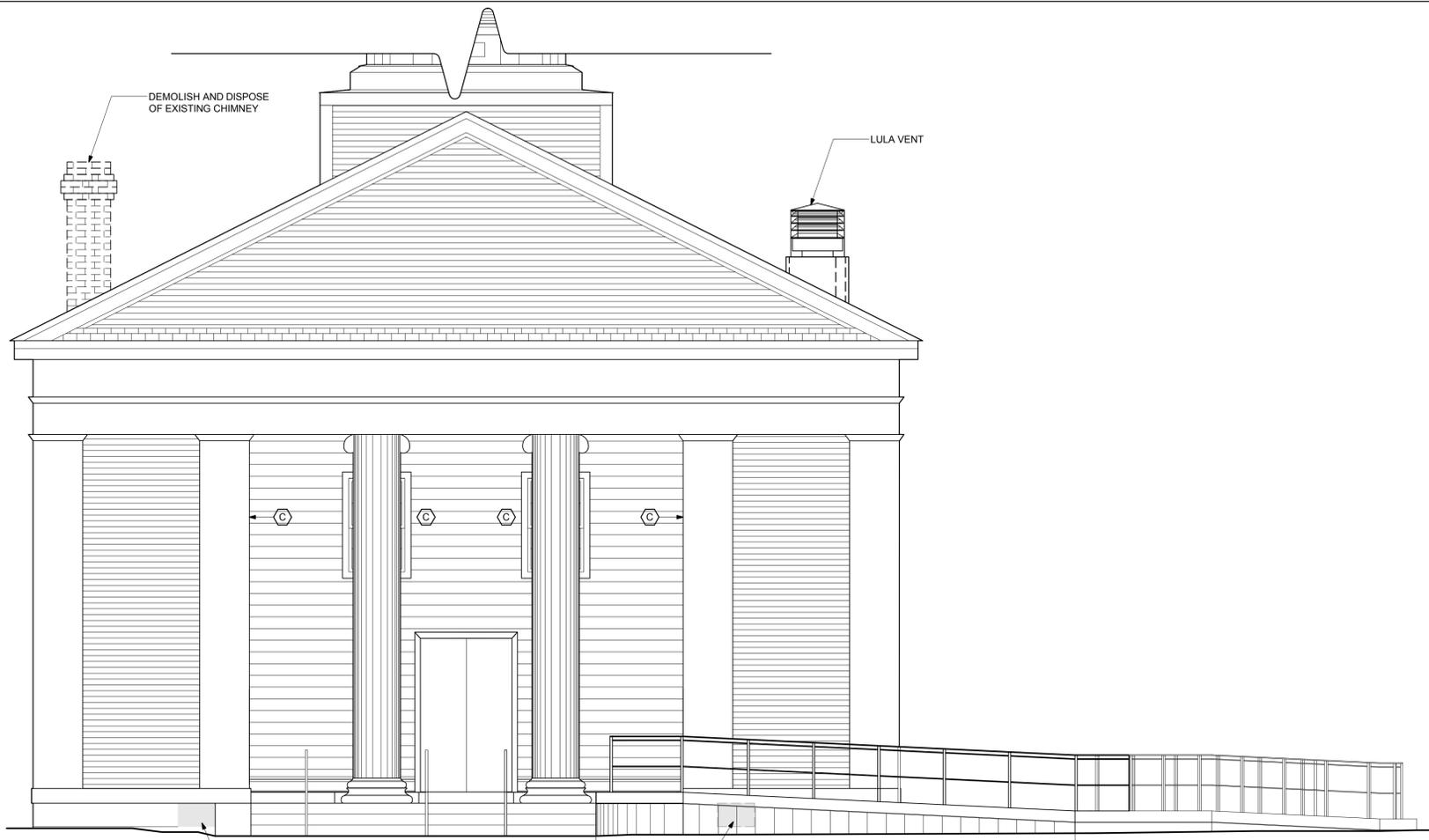
Revisions:

Submission:

### BIDDING DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: PT  
Scale: AS NOTED

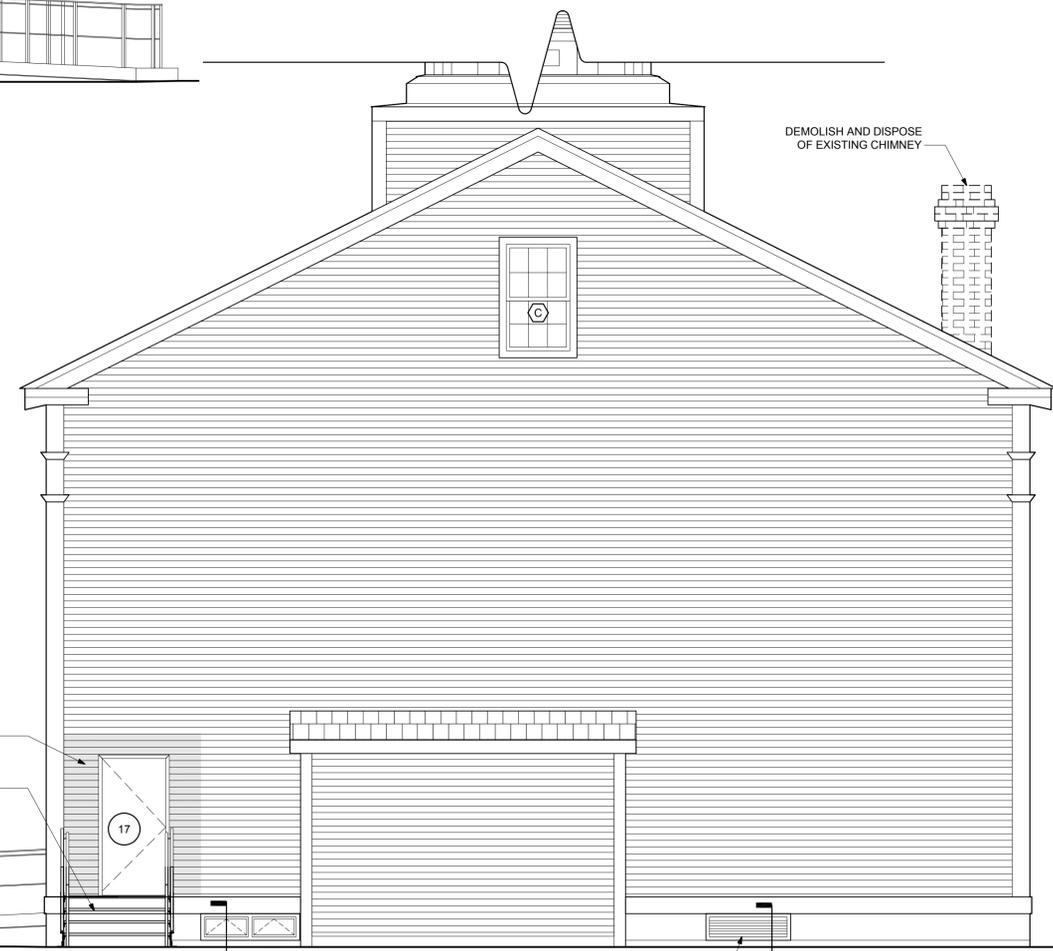
# A3-01



**1 EAST ELEVATION**  
SCALE: 1/4" = 1'-0"

REMOVE EXISTING WOOD PANELS AND INFILL WITH GRANITE BLOCK. CUT EXISTING GRANITE BLOCK REMOVED FOR THE LOUVER INSTALLATION. TO FIT AND MORTAR IN PLACE

GRANITE VENEER CONCRETE SHELF BELOW GRADE

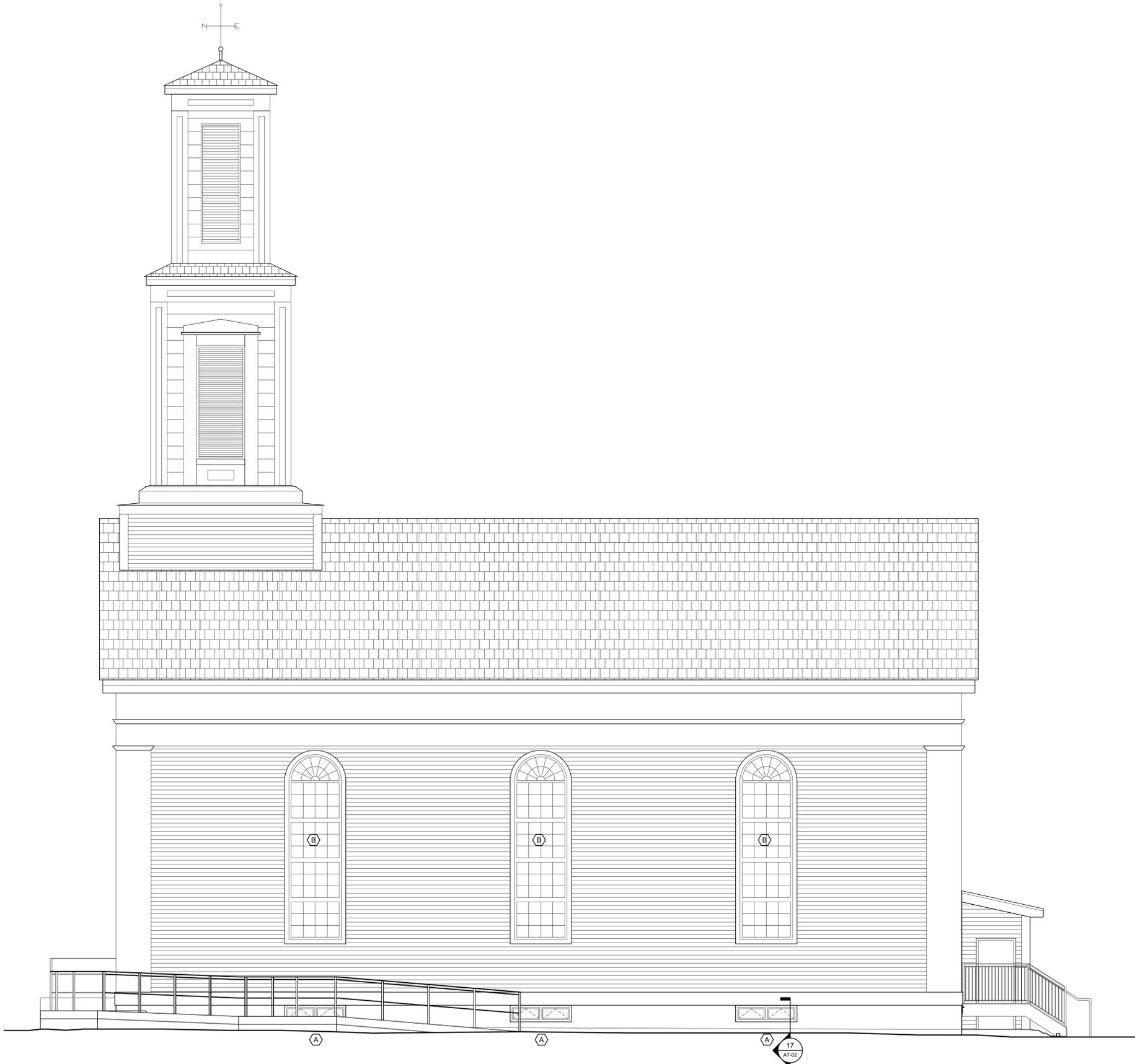


**2 WEST ELEVATION**  
SCALE: 1/4" = 1'-0"

REMOVE AND REPLACE CLAPBOARDS TO INSTALL DOOR SHADED, PRIME AND PAINT

SEE SHEET A5-01 FOR STAIR DETAILS

NEW 48" x 12" EXHAUST LOUVER REMOVE EXISTING WINDOW



1 NORTH ELEVATION  
SCALE: 1/4" = 1'-0"

P:\2017\17009\AutoCAD\SHETS\Ater\_10.03.2018 (RD as PM)\17009 A3-01 to A3-03 Elevations.dwg Oct 31, 2018 - 4:14 pm FP/BSA



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FIRST PARISH  
MEETING HOUSE  
INTERIOR  
RENOVATION



TOWN OF  
TYNGSBOROUGH

Drawing Title:

NORTH  
ELEVATION

Revisions:

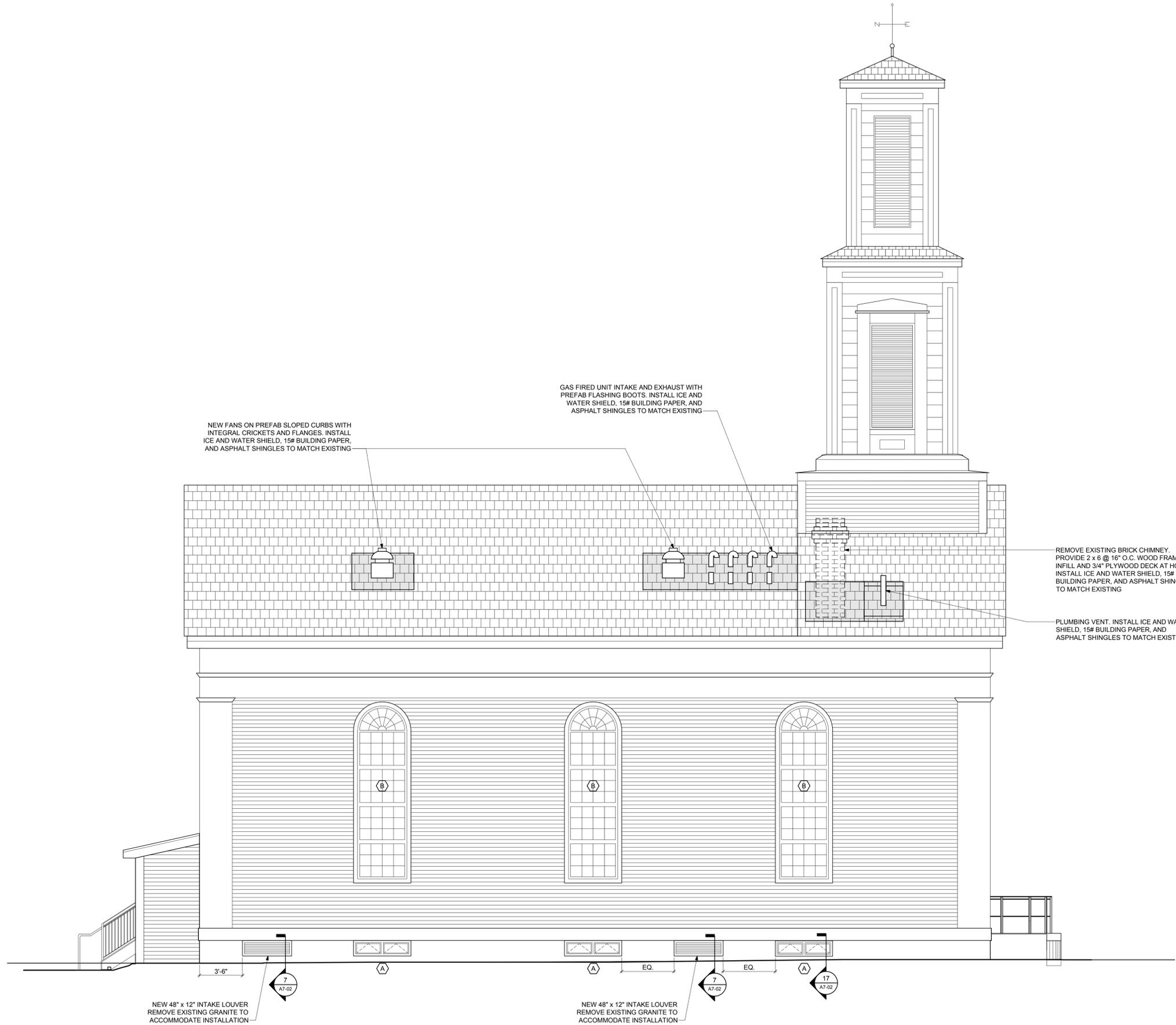
Submission:

BIDDING  
DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: DH  
Drawn By: PT  
Scale: AS NOTED

A3-02

P:\2017\17009\AutoCAD\Sheets\Ater\_10.03.2018 (RD as PM)\17009 A3-01 to A3-03 Elevations.dwg Oct 31, 2018 - 4:14 pm FP/BSA



1 SOUTH ELEVATION  
SCALE: 1/4" = 1'-0"



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### FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



TOWN OF TYNGSBOROUGH

Drawing Title:

### SOUTH ELEVATION

Revisions:

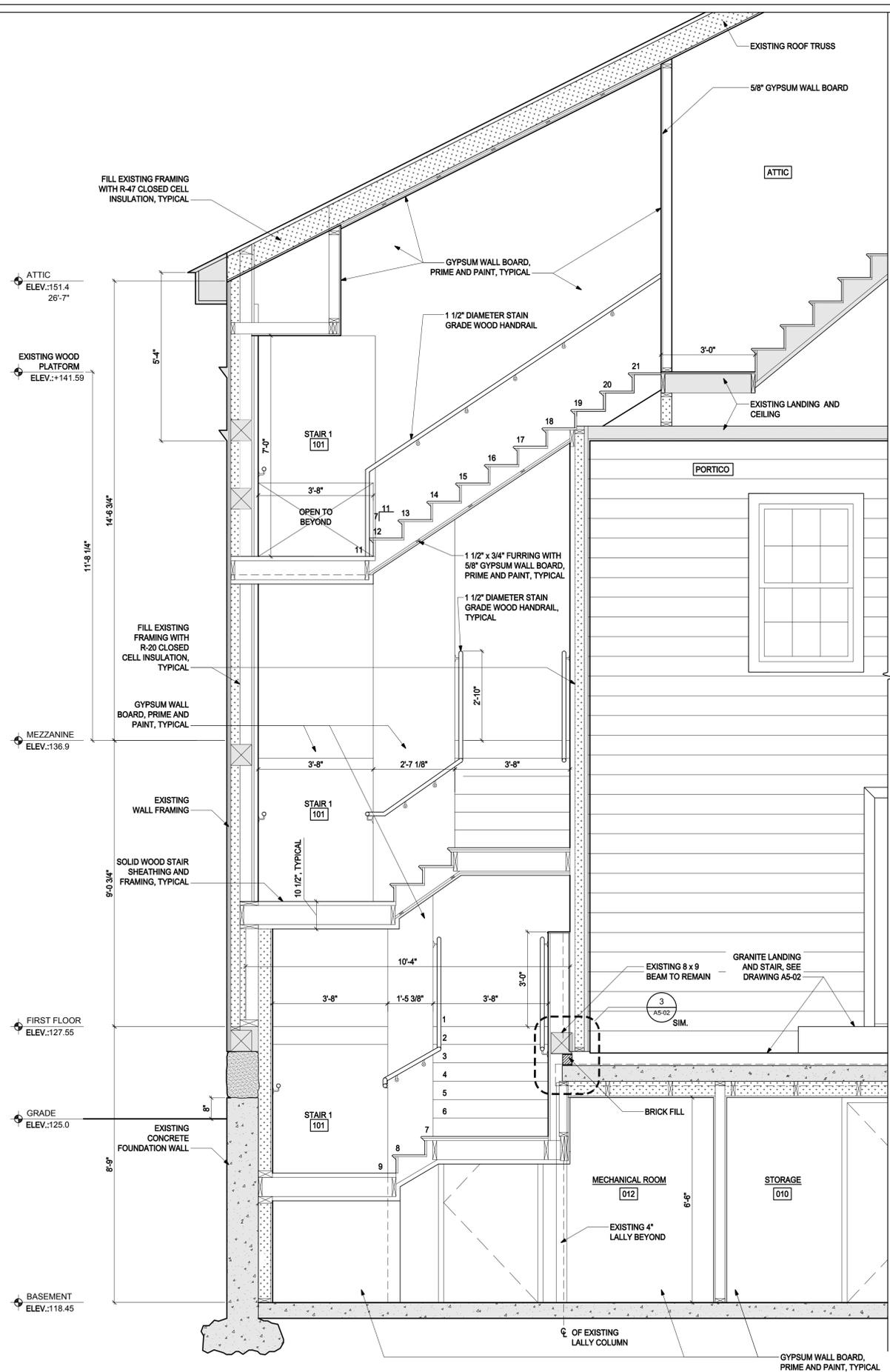
Submission:

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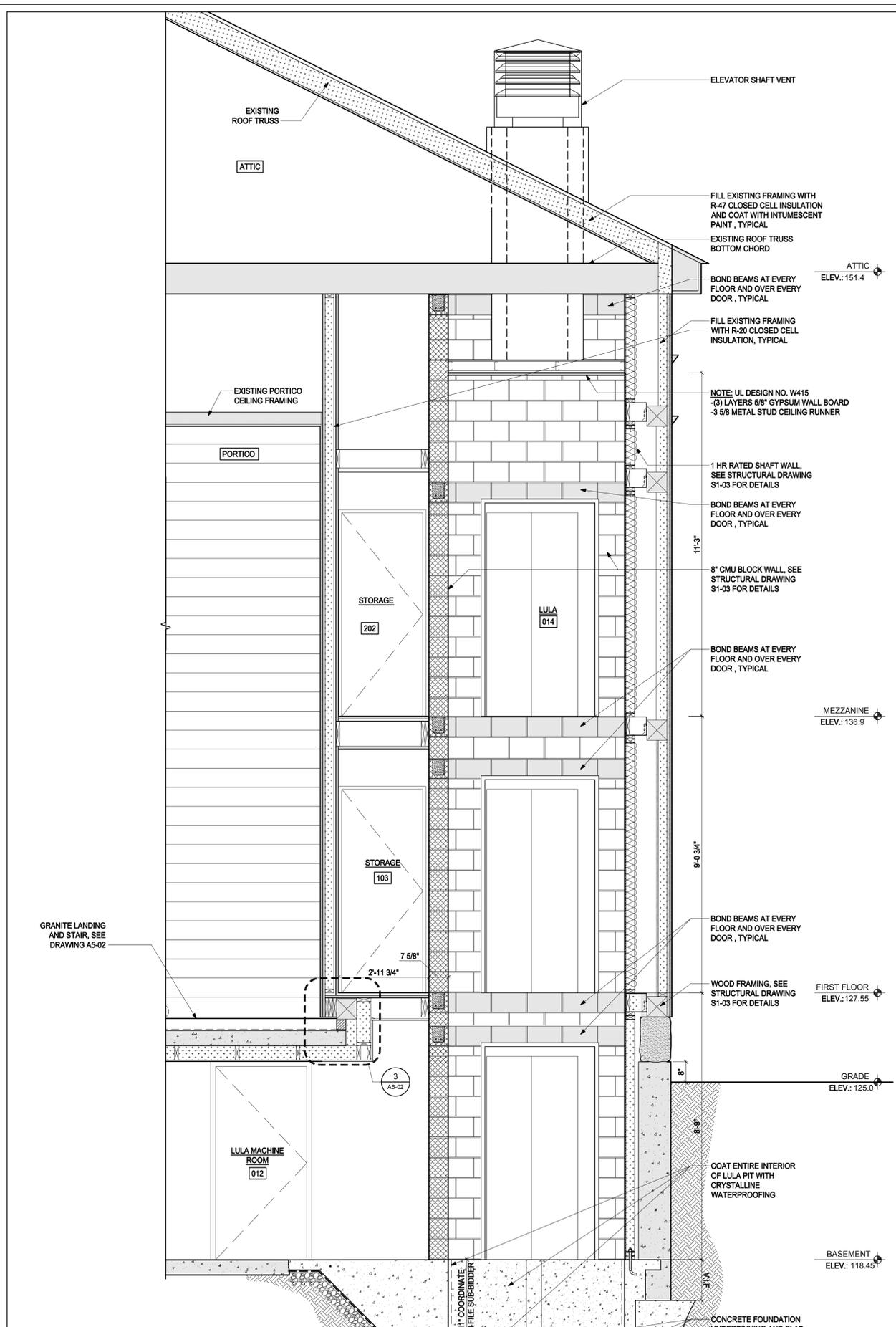
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Project Number: 17009  
Project Manager: DH  
Drawn By: PT  
Scale: AS NOTED

# A3-03

P:\2017\17009\AutoCAD\Sheets\After 10.03.2018 (RD as PM)\17009 A4-00 Stair and Lula Section.dwg Oct 31, 2018 - 4:14 pm FPARSA



1 CROSS-SECTION AT STAIR TOWER  
SCALE: 1/2"=1'-0"



2 CROSS-SECTION AT LULA SHAFT  
SCALE: 1/2"=1'-0"



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FIRST PARISH  
MEETING HOUSE  
INTERIOR  
RENOVATION



TOWN OF  
TYNGSBOROUGH

Drawing Title:

STAIR AND LULA  
SECTION

Revisions:

Submission:

BIDDING  
DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: EMC/MVM/PT  
Scale: 1/2"=1'-0"

A4-00

FIRST PARISH  
MEETING HOUSE  
INTERIOR  
RENOVATION



TOWN OF  
TYNGSBOROUGH

Drawing Title:

FRONT ENTRY  
SECTIONS

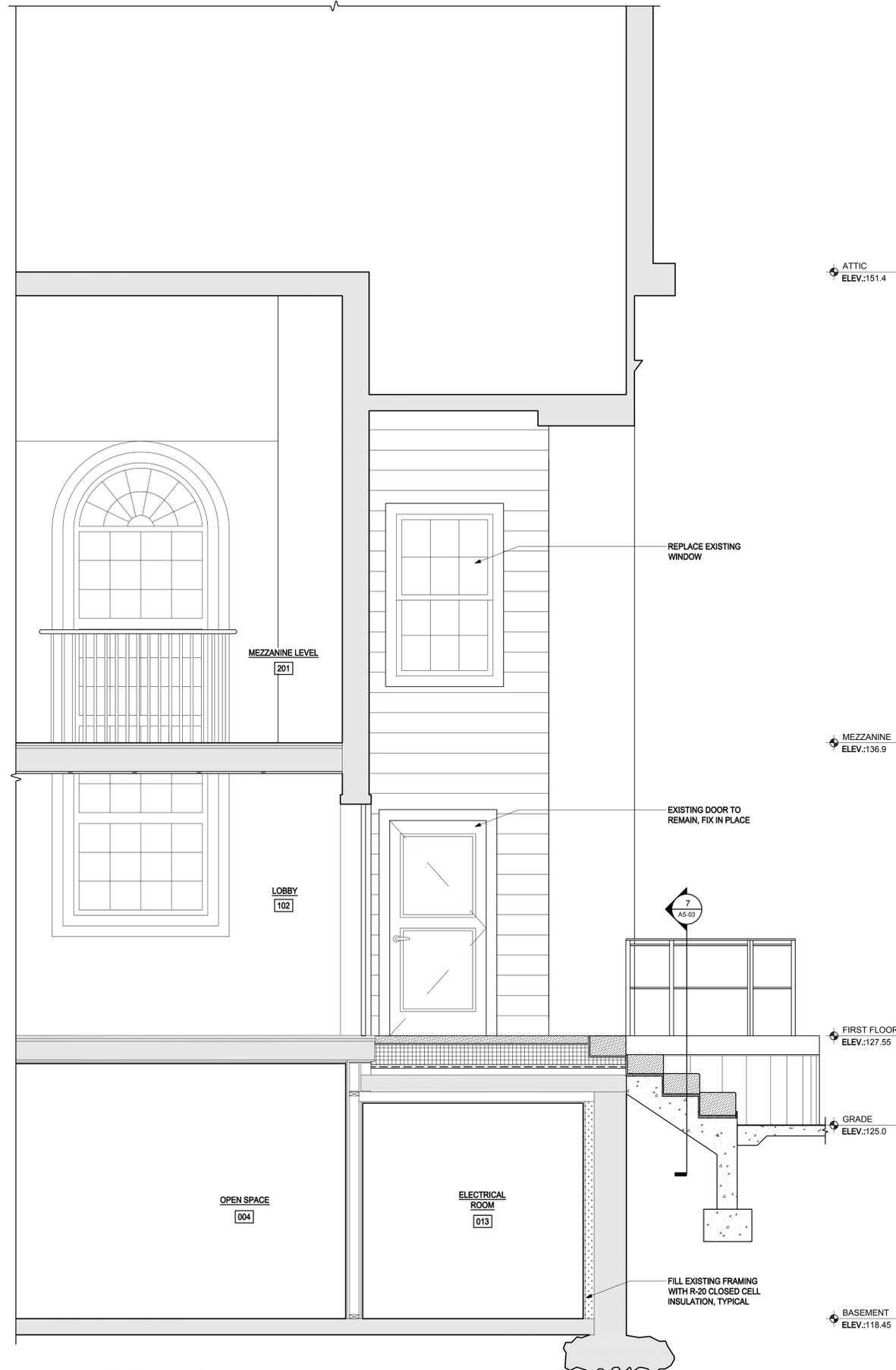
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Submission:

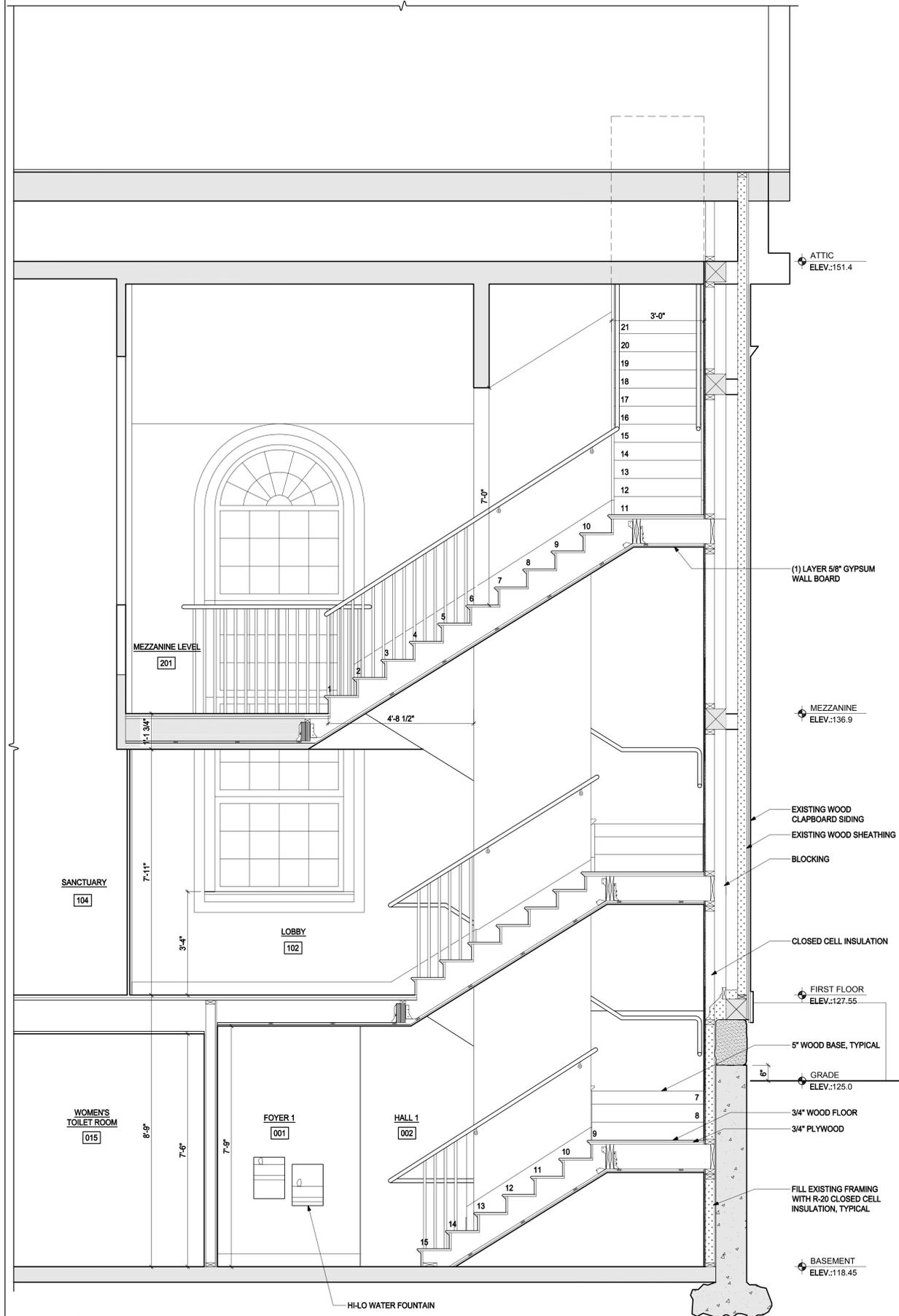
BIDDING  
DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: EMC/PT  
Scale: 1/2" = 1'-0"

**A4-01**



1 ELEVATION SLOPING  
WALKWAY AT LANDING  
SCALE: 1/2"=1'-0"



2 LONGITUDINAL  
SECTION AT STAIR TOWER  
SCALE: 1/2"=1'-0"

FIRST PARISH  
MEETING HOUSE  
INTERIOR  
RENOVATION



TOWN OF  
TYNGSBOROUGH

Drawing Title:

BUILDING  
SECTIONS

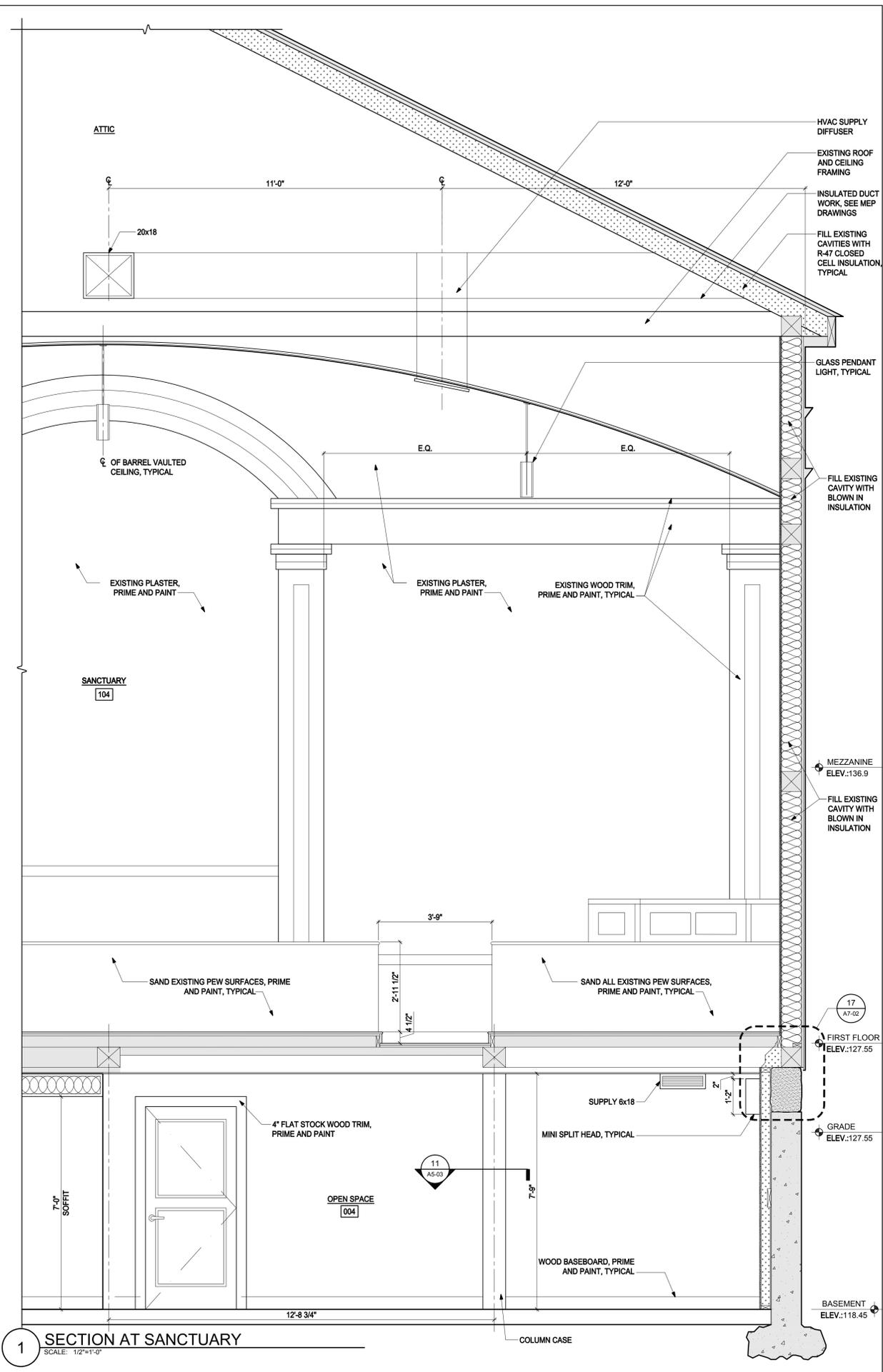
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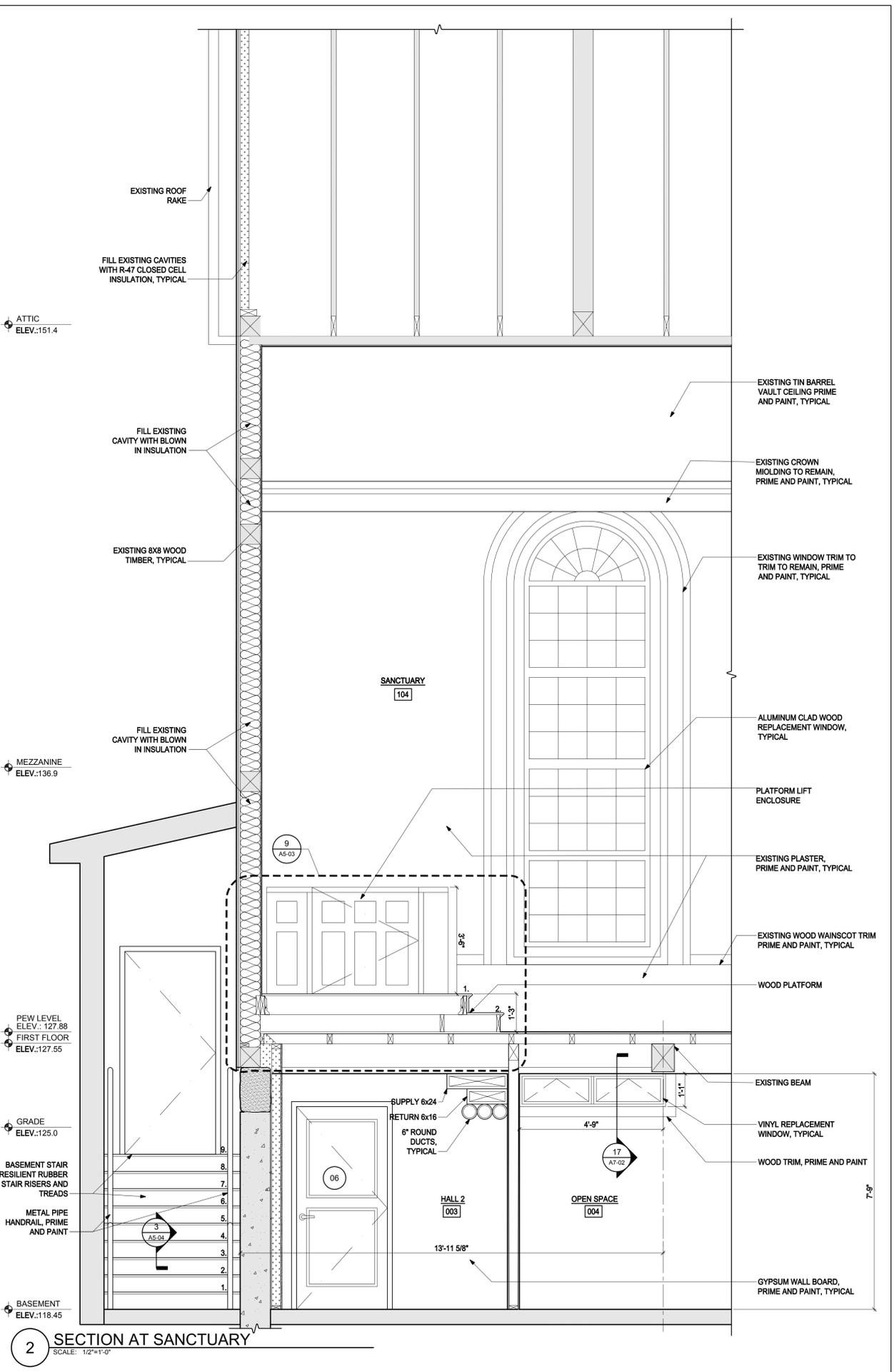
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DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: MVM/BE/PT  
Scale: 1/2" = 1'-0"

**A4-02**



**1 SECTION AT SANCTUARY**  
SCALE: 1/2"=1'-0"



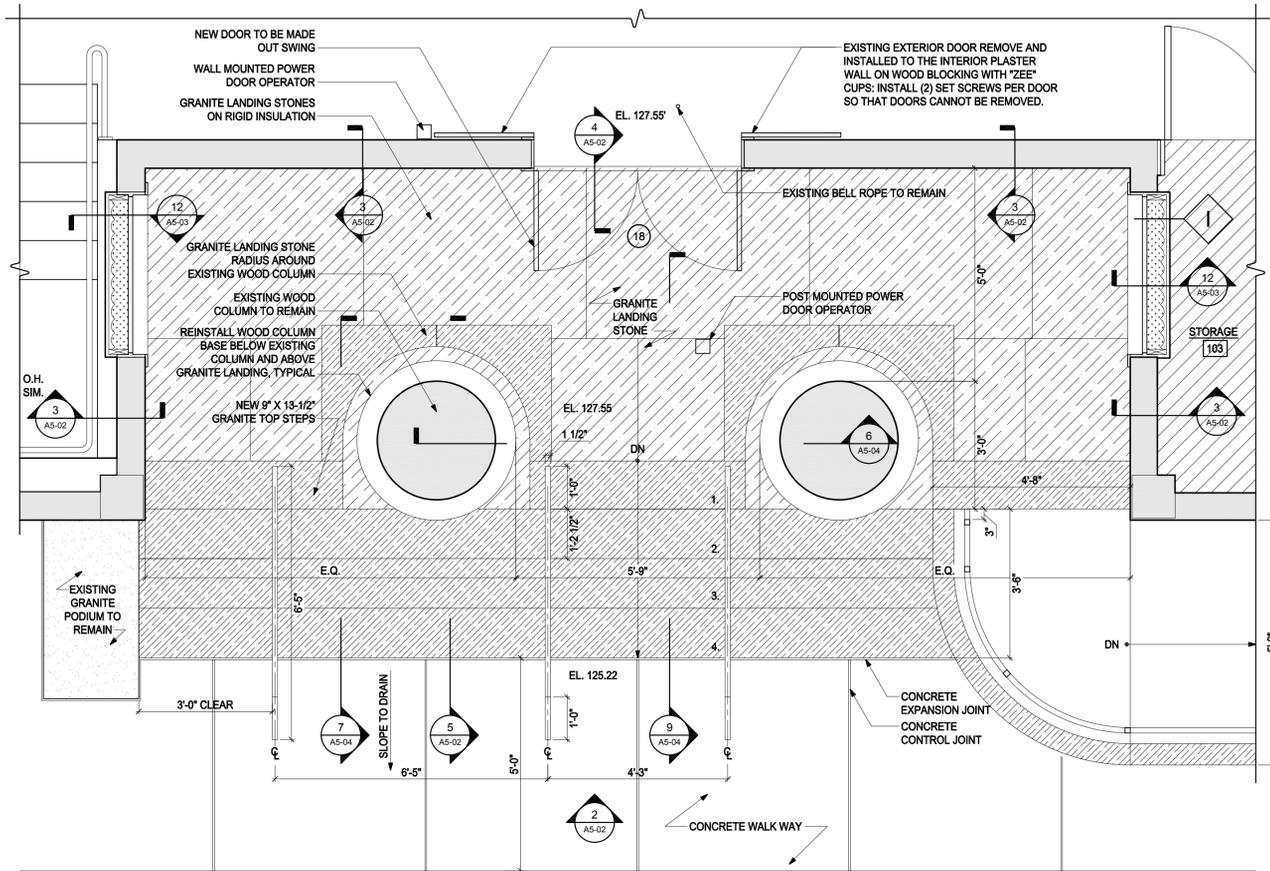
**2 SECTION AT SANCTUARY**  
SCALE: 1/2"=1'-0"

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NOTE: SOLID LIGHT GRAY HATCH (▨) REPRESENTS EXISTING CONSTRUCTION.

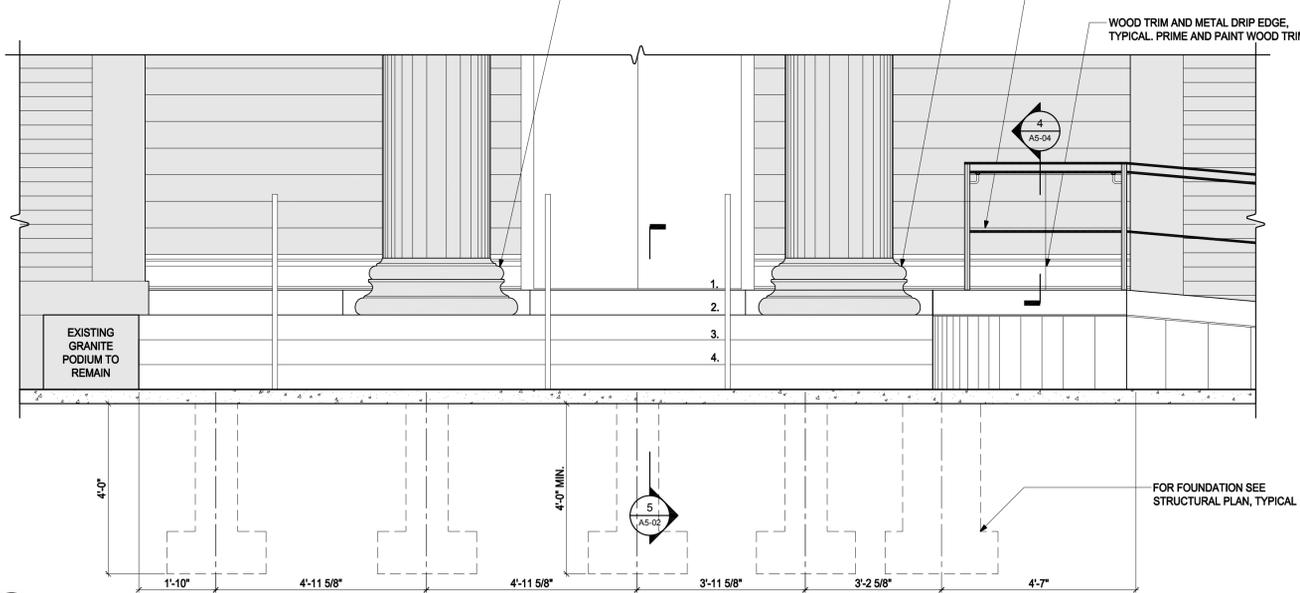
NOTE: NO CHANGE IN LEVEL BETWEEN GRANITE STONES SHALL EXCEED 1/2"



1 ENLARGED FRONT LANDING PLAN  
SCALE: 1/2"=1'-0"

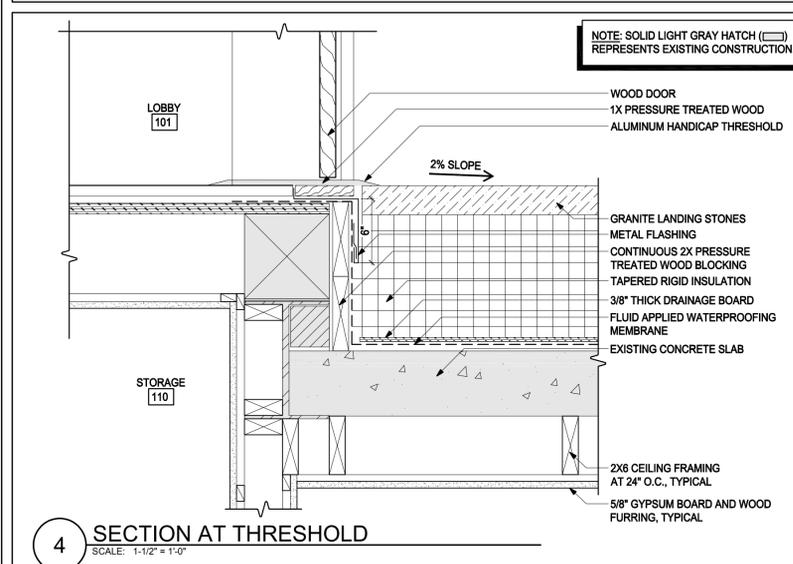
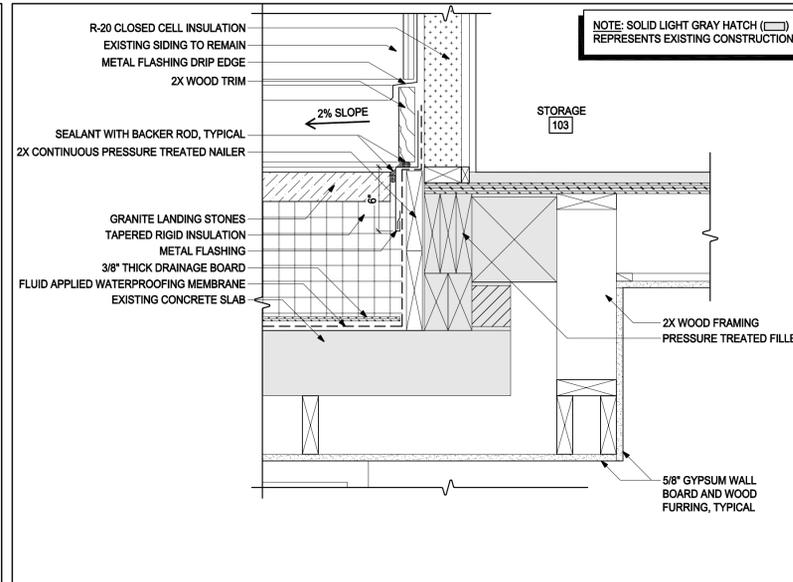
NOTE: SOLID LIGHT GRAY HATCH (▨) REPRESENTS EXISTING CONSTRUCTION.

GENERAL CONTRACTOR TO INSTALL STORED COLUMN BASE, TYPICAL. OWNER TO PROVIDE COLUMN BASE SIDING TO MATCH EXISTING, PRIME AND PAINT, TYPICAL.



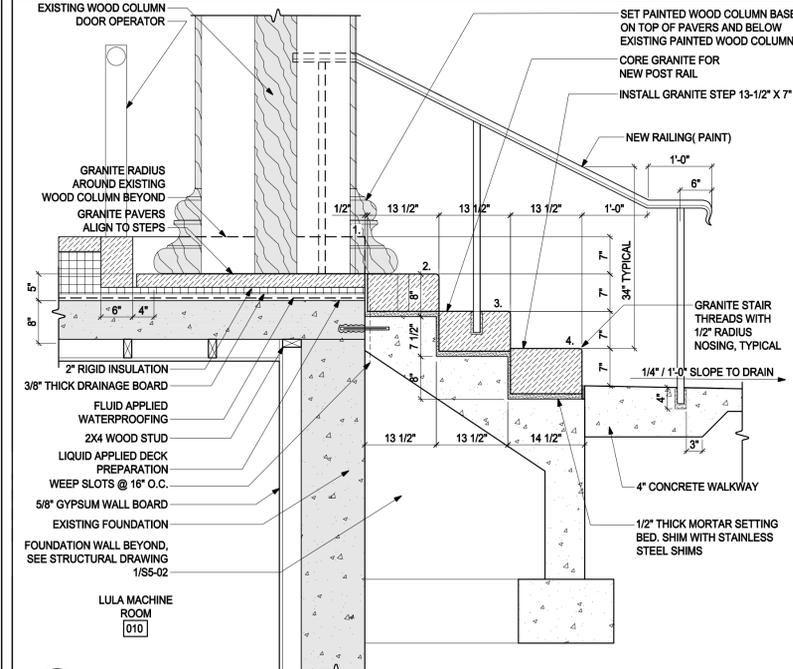
2 PARTIAL FRONT LANDING ELEVATION  
SCALE: 1/2"=1'-0"

NOTE: SOLID LIGHT GRAY HATCH (▨) REPRESENTS EXISTING CONSTRUCTION.



4 SECTION AT THRESHOLD  
SCALE: 1-1/2"=1'-0"

NOTE: SOLID LIGHT GRAY HATCH (▨) REPRESENTS EXISTING CONSTRUCTION.



5 STAIR SECTION  
SCALE: 3/4"=1'-0"

NOTE: SOLID LIGHT GRAY HATCH (▨) REPRESENTS EXISTING CONSTRUCTION.

DETAIL LEGEND

- ▨ EXISTING TO REMAIN, TYPICAL
- LINE OF DEMOLITION, TYPICAL
- ▨ GRANITE, TYPICAL
- ▨ CLOSED CELL INSULATION, TYPICAL
- Ⓐ WINDOW TAG, TYPICAL
- Ⓒ WALL TYPE TAG, TYPICAL
- ⓪Ⓢ DOOR TAG, TYPICAL



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FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



TOWN OF TYNGSBOROUGH

FRONT LANDING ENLARGED PLAN AND DETAILS

Drawing Title:

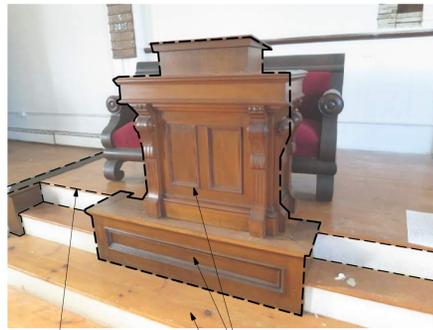
Revisions:

BIDDING DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: LY/PT  
Scale: AS NOTED

A5-02

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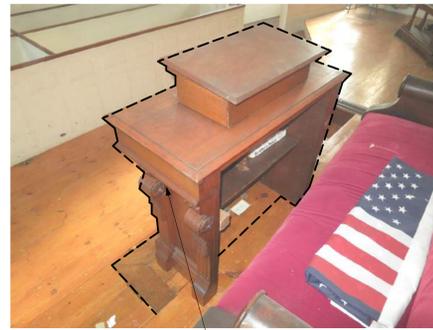


REMOVE AND DISPOSE OF EXISTING THIRD LEVEL OF ALTAR AND LOW SIDE WALLS

CAREFULLY SALVAGE AND STORE LECTERN AND LECTERN PEDESTAL FOR REUSE

EXISTING STAIR TO BE REMAIN

1 MOVABLE LECTERN DETAIL  
SCALE: N.T.S.



CAREFULLY SALVAGE AND STORE LECTERN AND LECTERN PEDESTAL FOR REUSE

2 MOVABLE LECTERN DETAIL  
SCALE: N.T.S.



EXISTING FLOOR TO REMAIN

EXISTING PEWS TO REMAIN, TYPICAL

EXISTING PEW TO BE REMOVED AND SALVAGED, COORDINATE STORAGE WITH OWNER

EXISTING PEW PANEL TO REMAIN

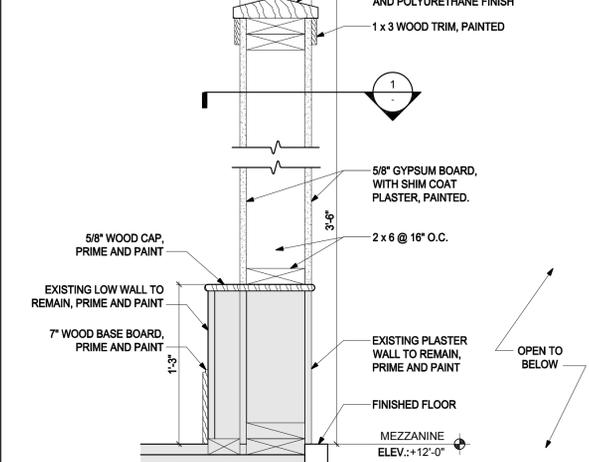
EXISTING FLOOR TO BE REMOVED AND DISPOSED OF

18 3/4" (N.T.S.)

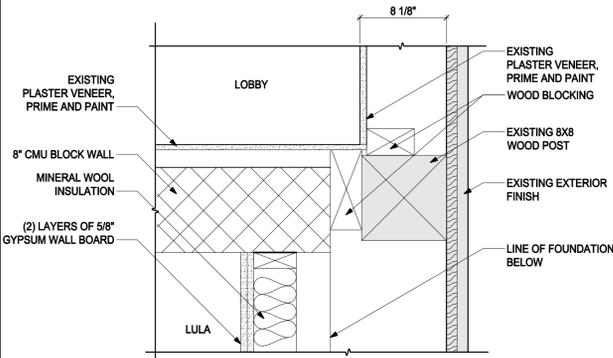
CAREFULLY SALVAGE AND STORE FOR REUSE EXISTING SEAT CUSHIONS

STRIP PAINT AND POLYURETHANE FROM PEW BENCH SEATS, VARNISH EXISTING WOOD

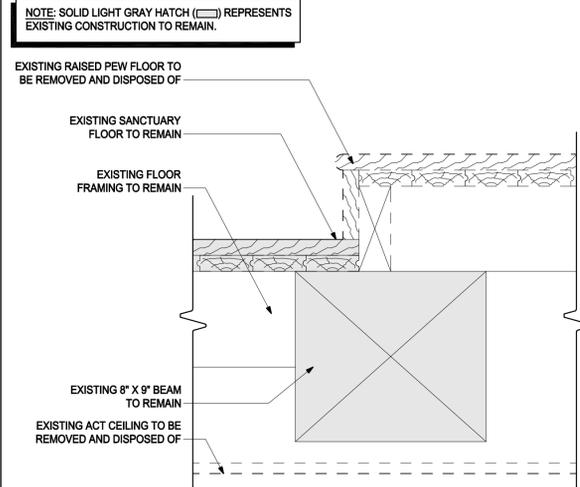
3 SANCTUARY PEW DETAIL  
SCALE: N.T.S.



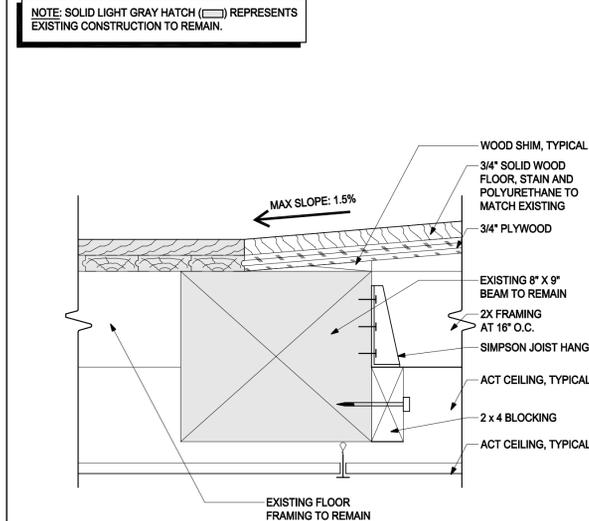
4 MEZZANINE SECTION  
SCALE: 1 1/2" = 1'-0"



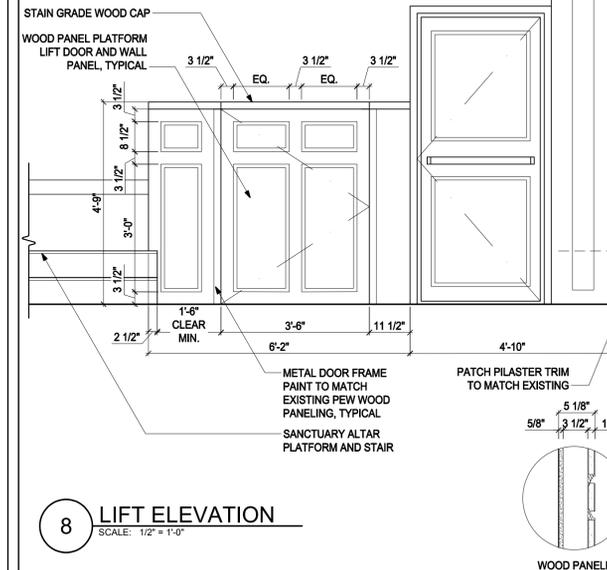
5 ELEVATOR PLAN DETAIL  
SCALE: 1 1/2" = 1'-0"



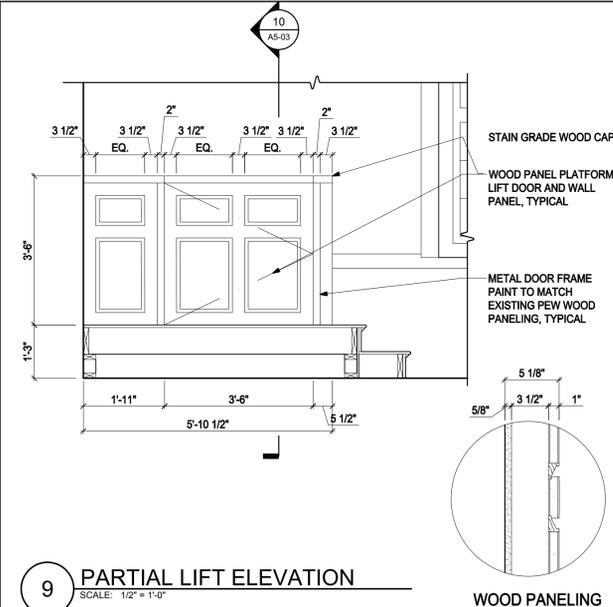
6 TYPICAL DETAIL SECTION AT SANCTUARY  
SCALE: 3" = 1'-0"



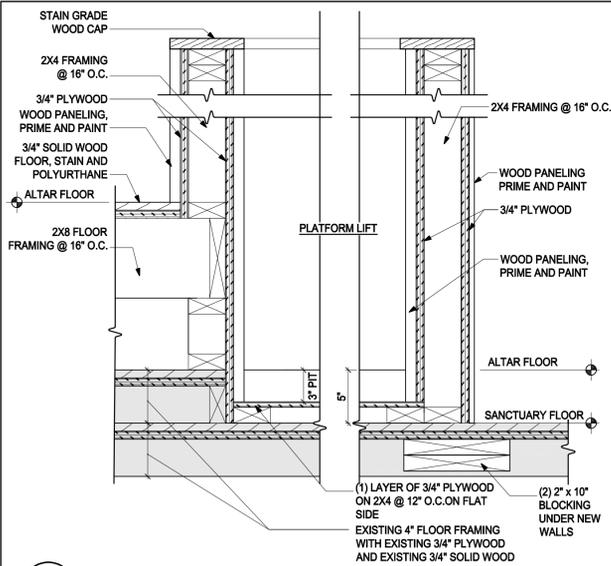
7 SLOPED FLOOR AT HC SEATING AND FRONT PEW LEVEL  
SCALE: 3" = 1'-0"



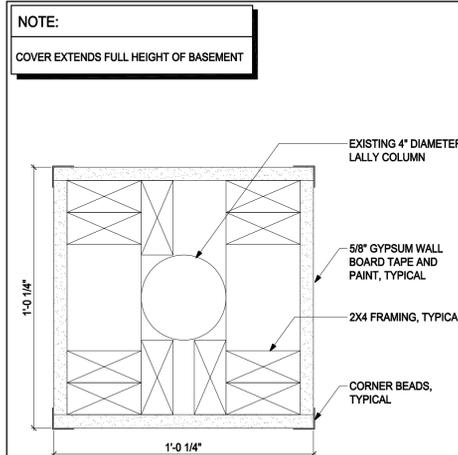
8 LIFT ELEVATION  
SCALE: 1/2" = 1'-0"



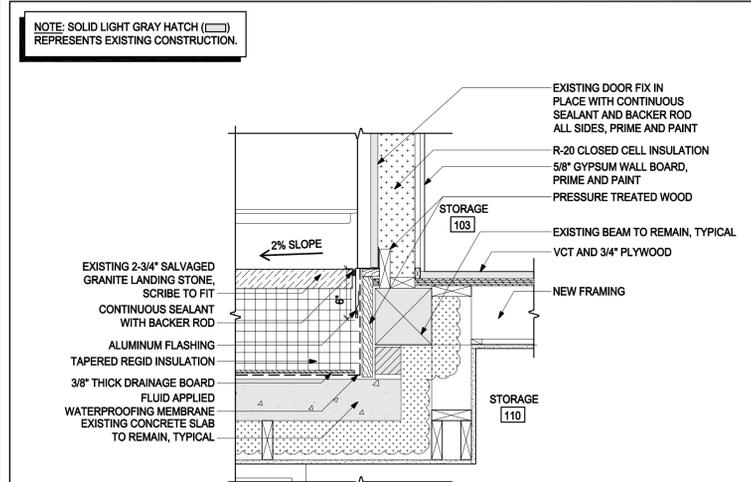
9 PARTIAL LIFT ELEVATION  
SCALE: 1/2" = 1'-0"



10 PLATFORM LIFT SECTION  
SCALE: 1 1/2" = 1'-0"



11 COLUMN COVER PLAN DETAIL  
SCALE: 3" = 1'-0"



12 FIXED DOOR THRESHOLD  
SCALE: 1" = 1'-0"



Drawing Title:

TYPICAL  
DETAILS

Revisions:

Submission:

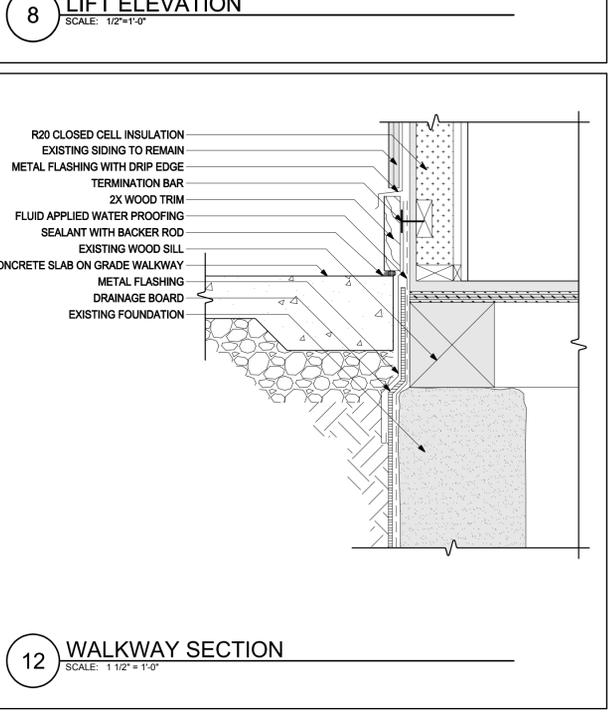
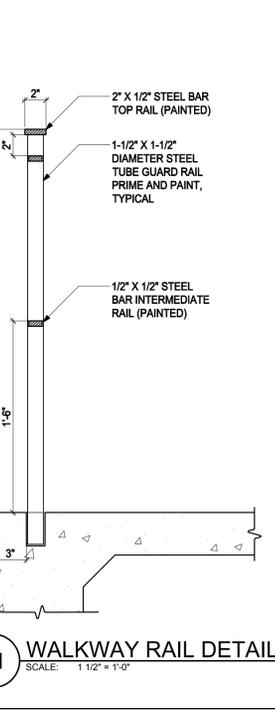
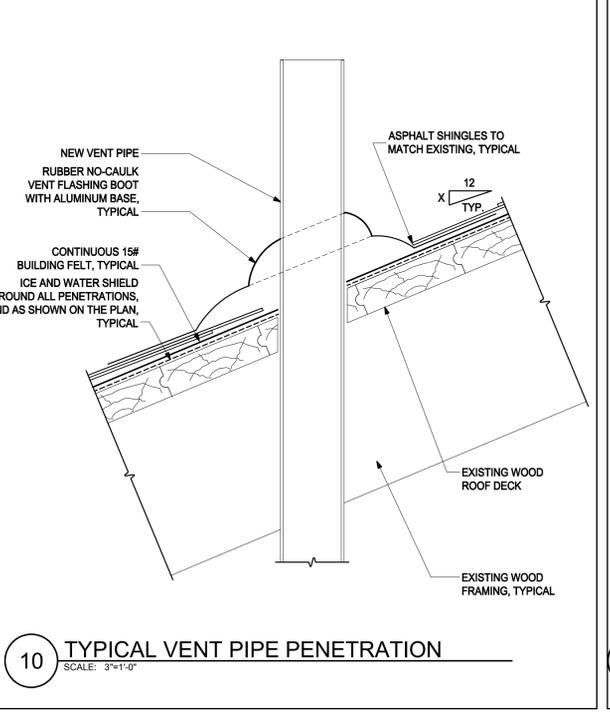
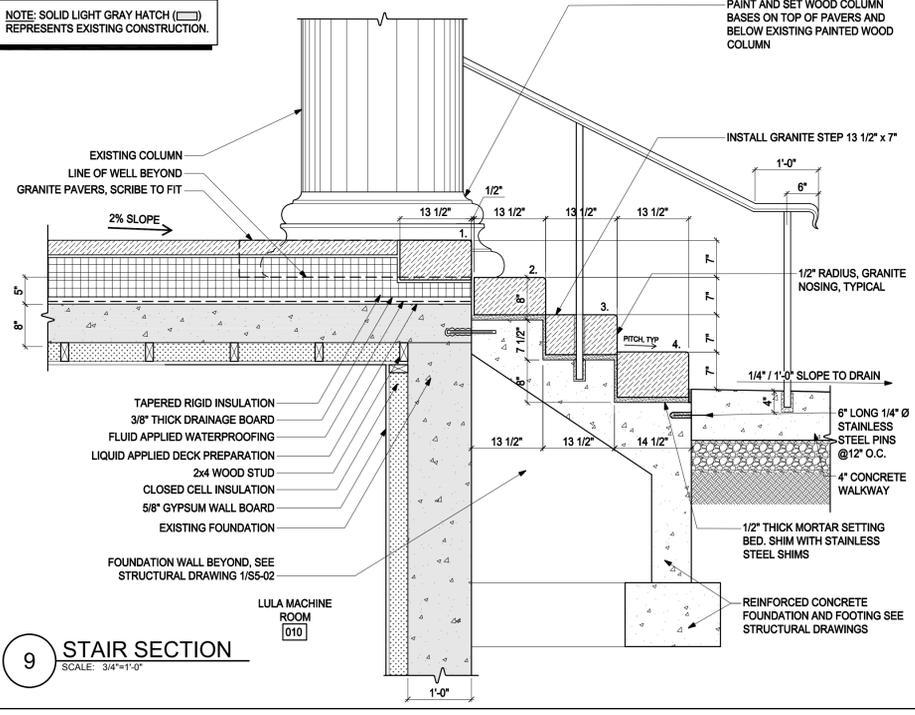
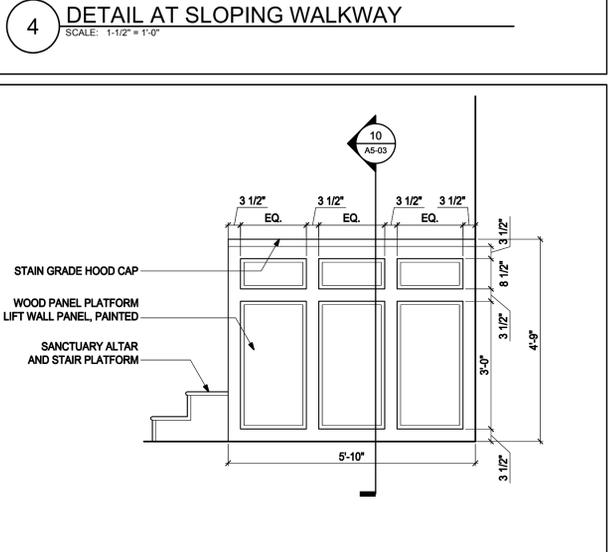
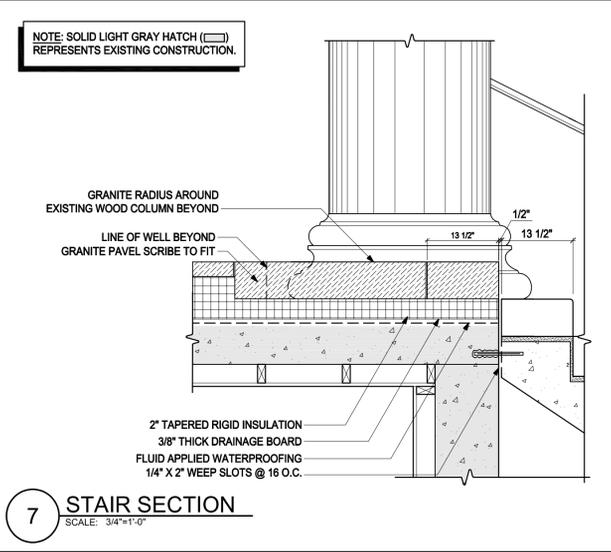
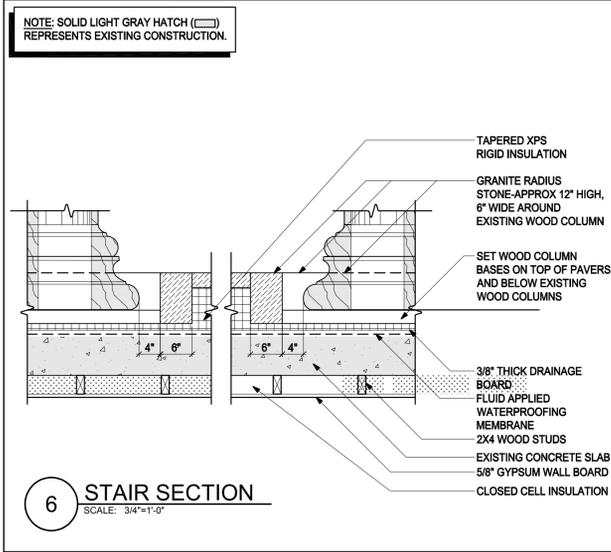
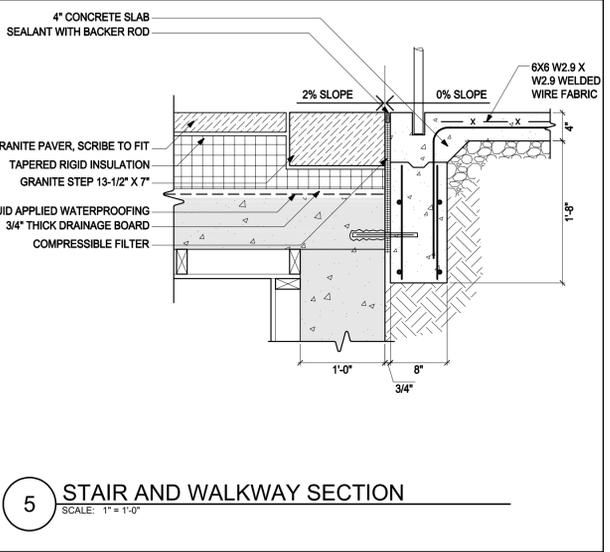
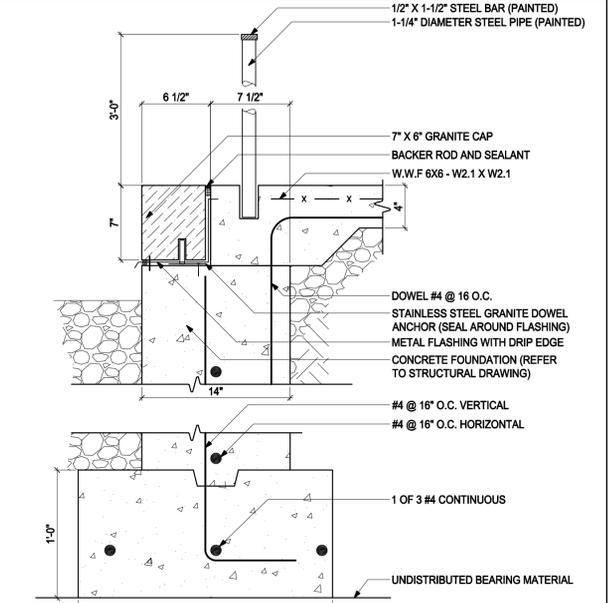
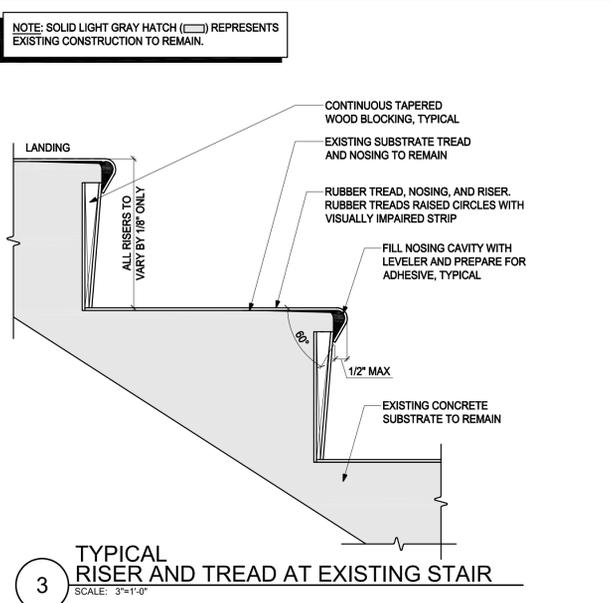
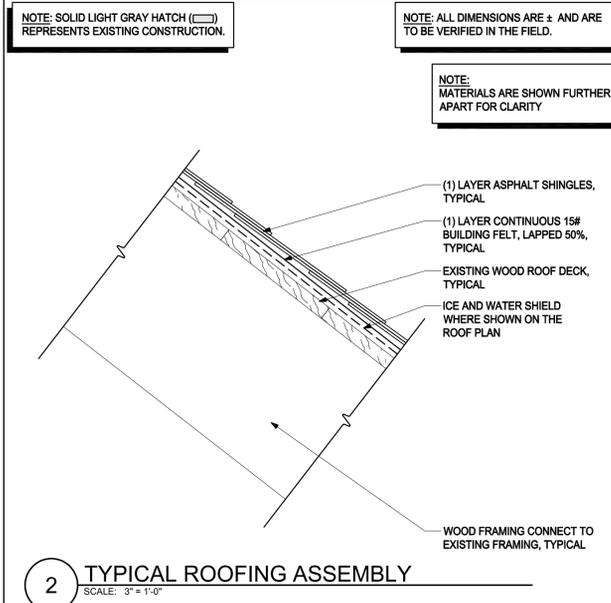
BIDDING  
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Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: JP/PT  
Scale: AS NOTED

A5-03

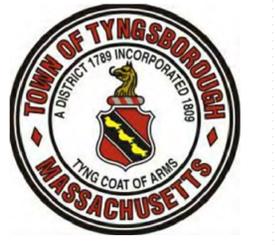


**1 CHIMNEY EXTERIOR**  
SCALE: NOT TO SCALE



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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



TOWN OF TYNGSBOROUGH

Drawing Title:

**TYPICAL DETAILS**

Revisions:

**BIDDING DOCUMENTS**

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: MM/PT  
Scale: AS NOTED

**A5-04**

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 www.vidaris.com

**FIRST PARISH  
 MEETING HOUSE  
 INTERIOR  
 RENOVATION**



**TOWN OF  
 TYNGSBOROUGH**

Drawing Title:

**PARTITION  
 TYPES**

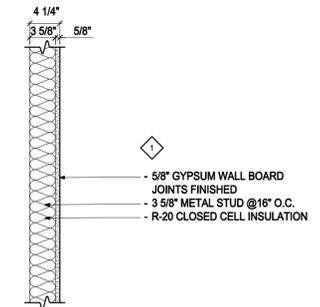
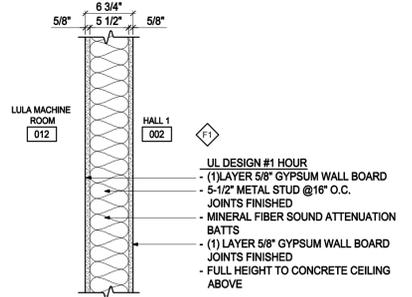
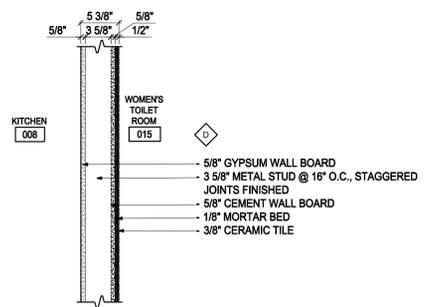
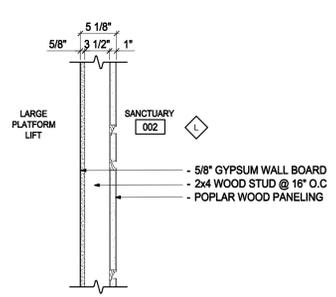
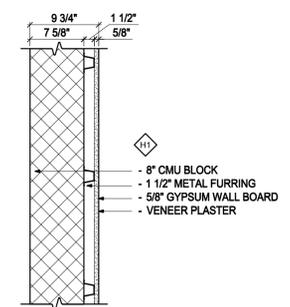
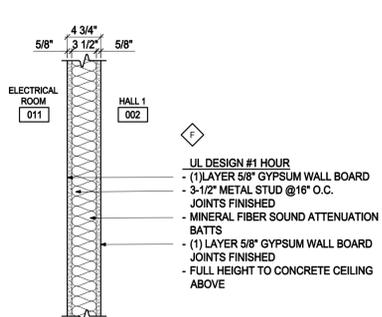
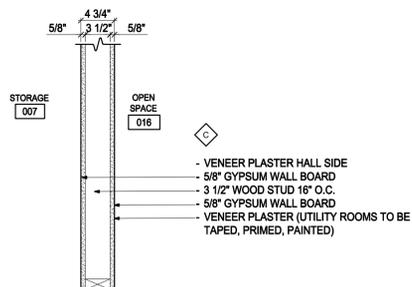
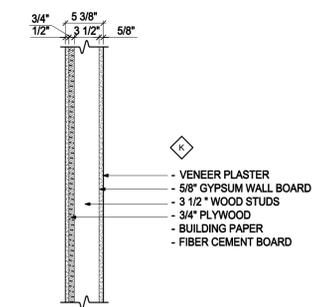
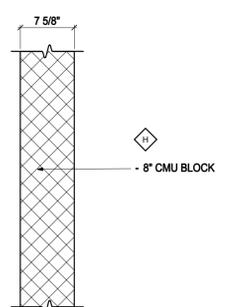
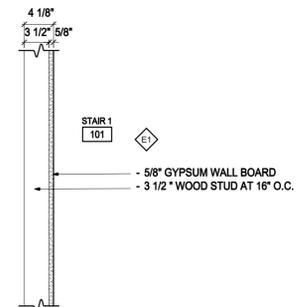
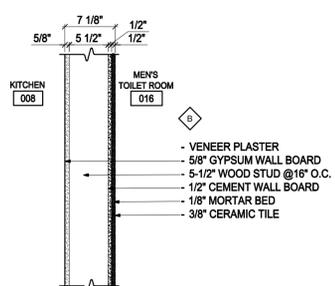
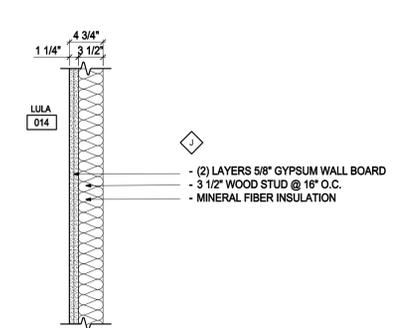
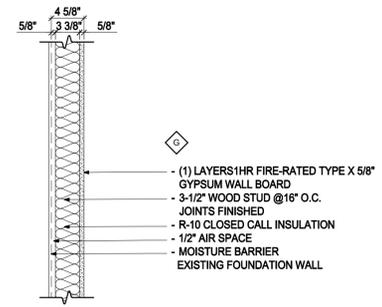
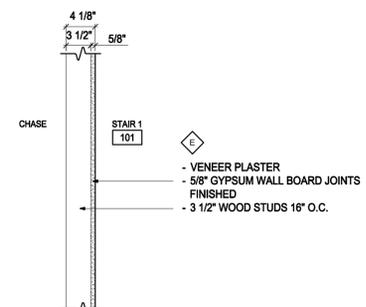
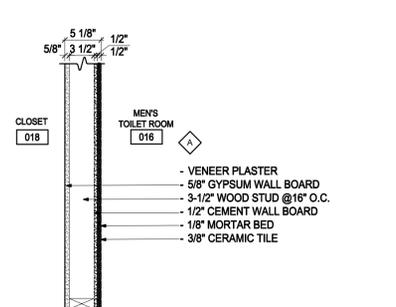
Revisions:

Submission:

**BIDDING  
 DOCUMENTS**

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 Project Number: 17009  
 Project Manager: RD  
 Drawn By: BE/BO/MVM  
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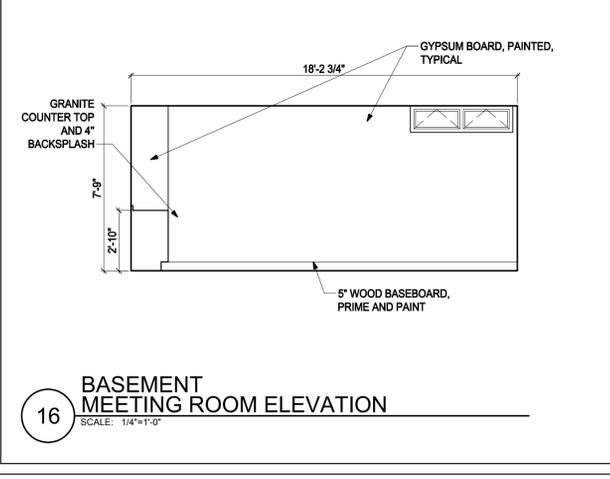
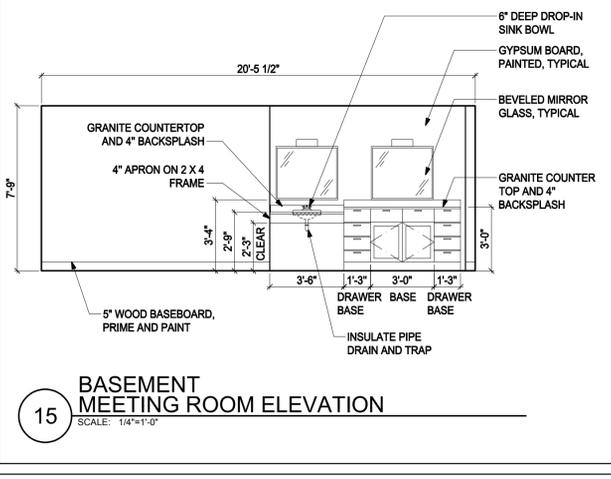
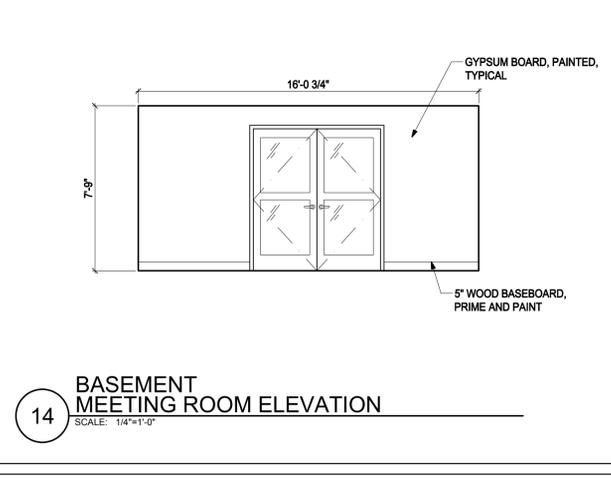
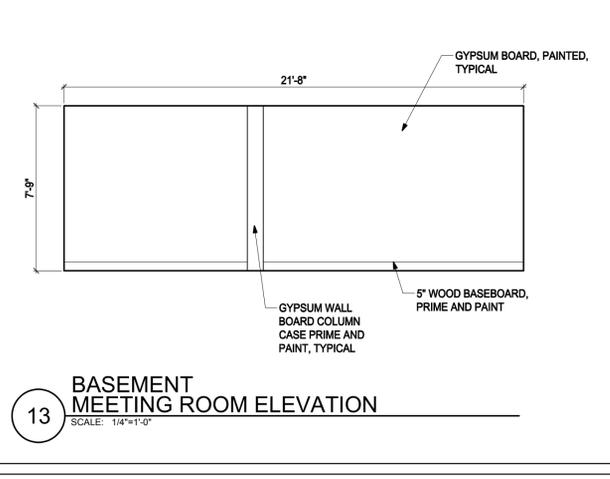
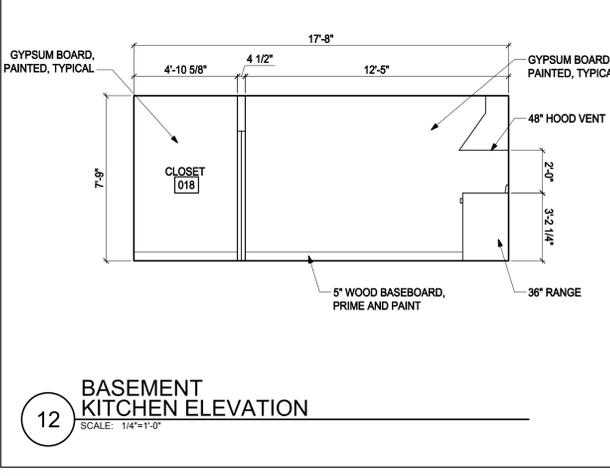
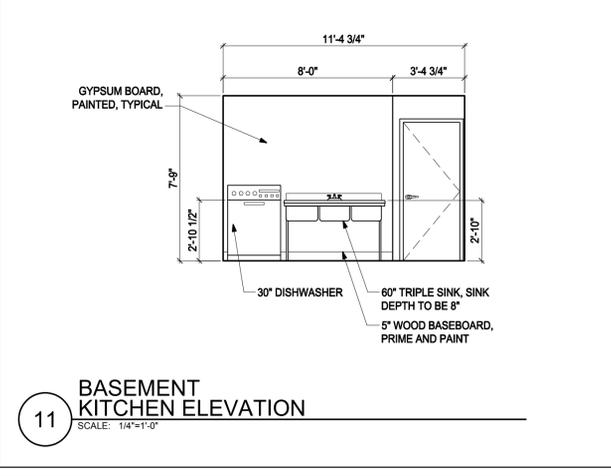
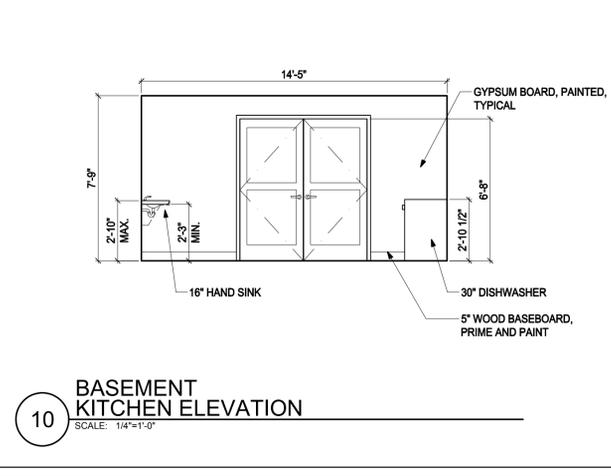
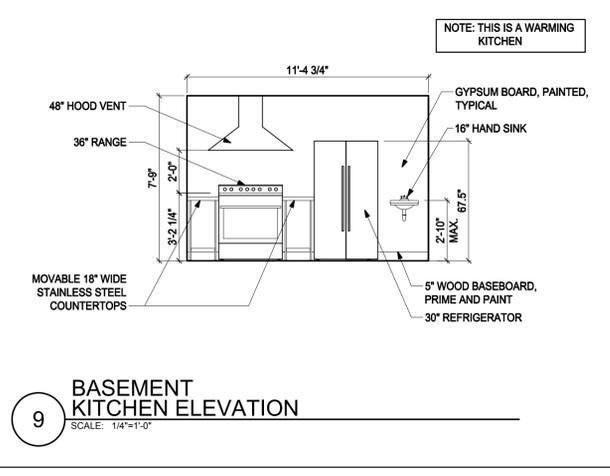
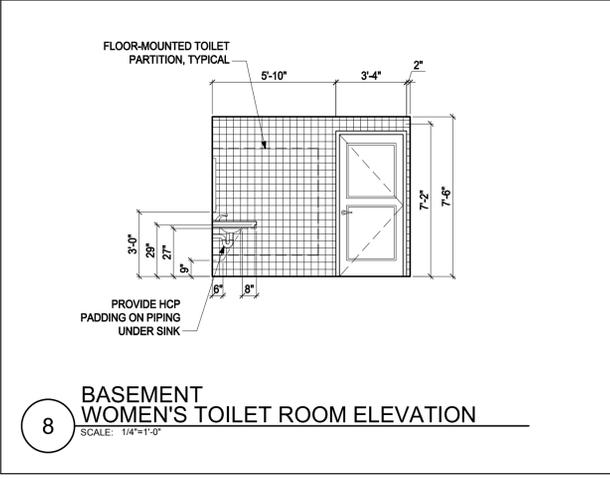
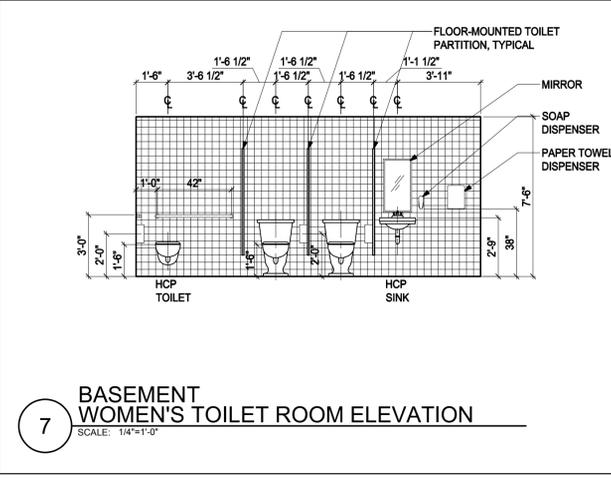
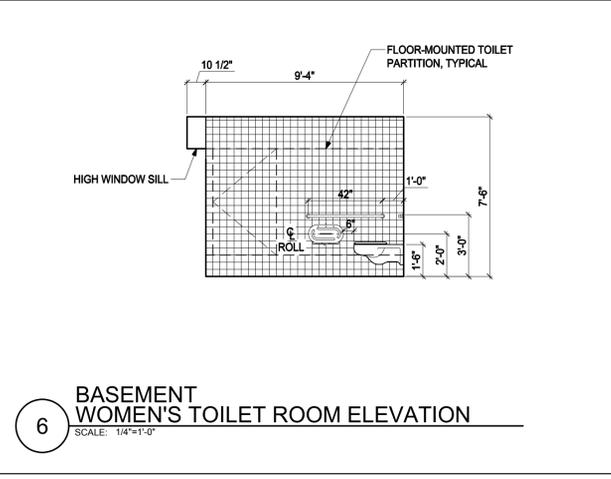
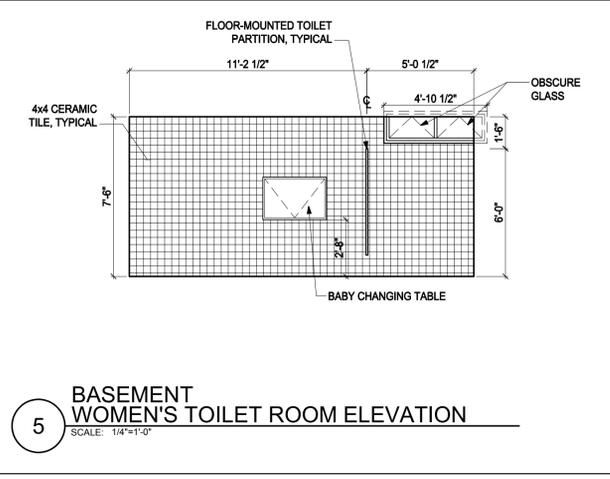
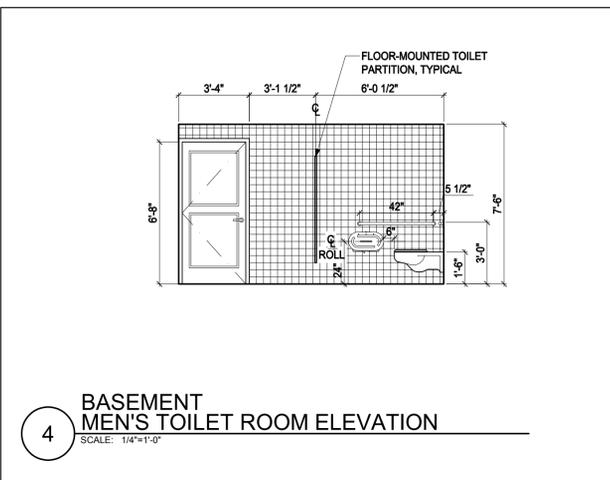
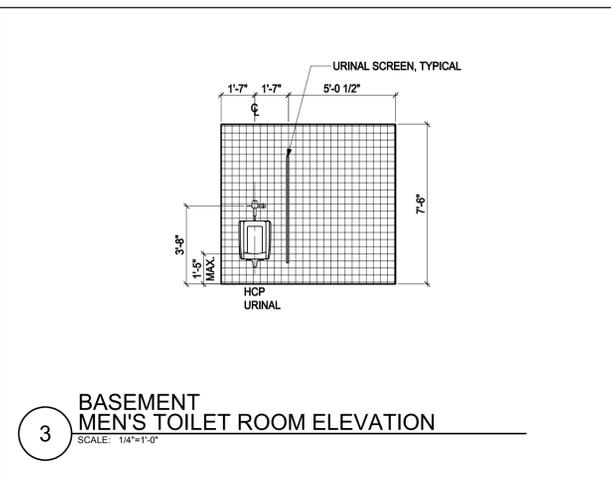
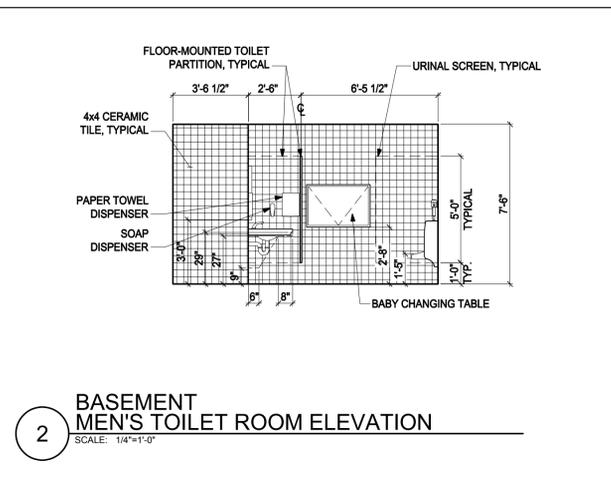
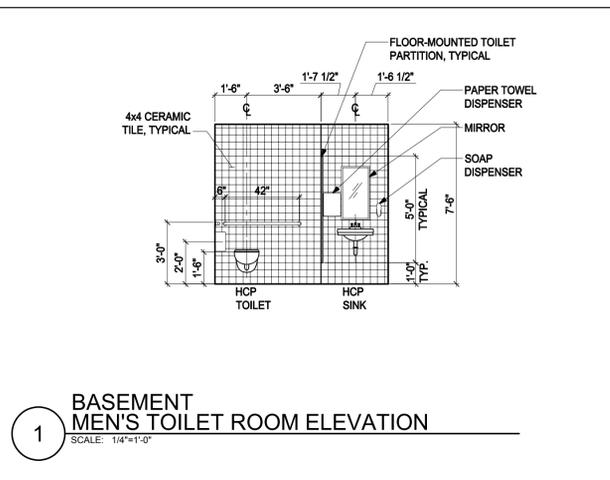
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**1 TYPICAL PARTITION TYPES**  
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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**

**BASEMENT LEVEL INTERIOR ELEVATIONS**

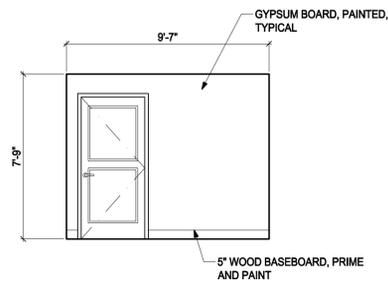
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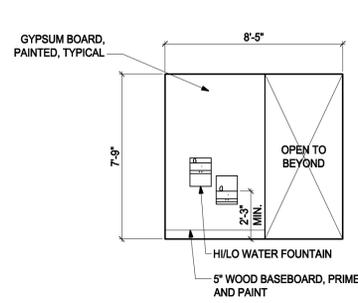
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Project Number: 17009  
Project Manager: RD  
Drawn By: EMC/MMM  
Scale: 1/4"=1'-0"

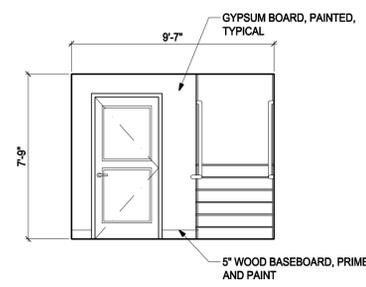
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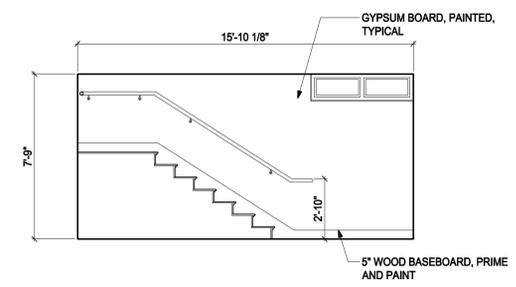
17 BASEMENT FOYER ELEVATION  
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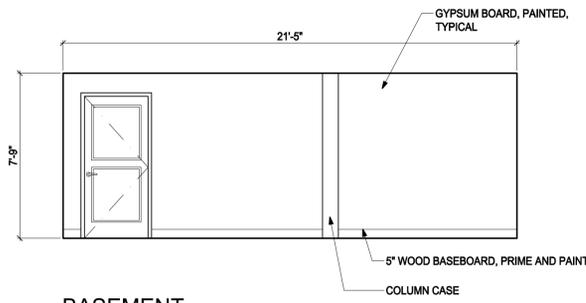
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SCALE: 1/4"=1'-0"



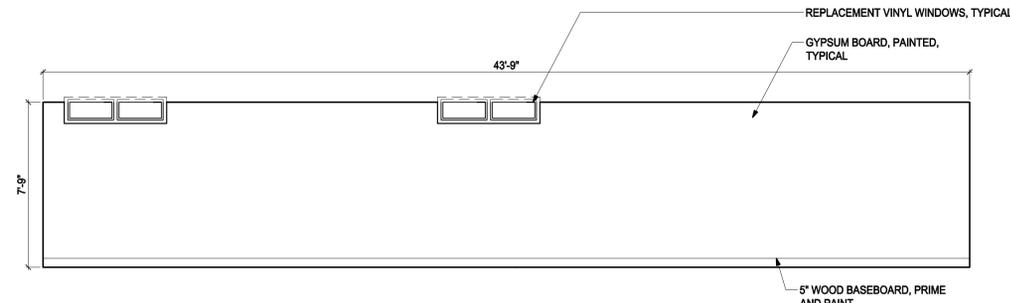
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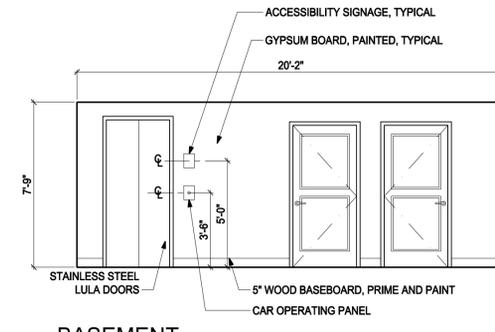
20 BASEMENT FOYER ELEVATION  
SCALE: 1/4"=1'-0"



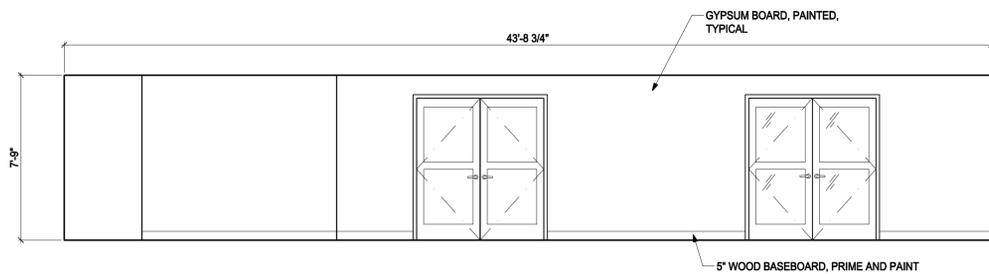
21 BASEMENT OPEN SPACE ELEVATION  
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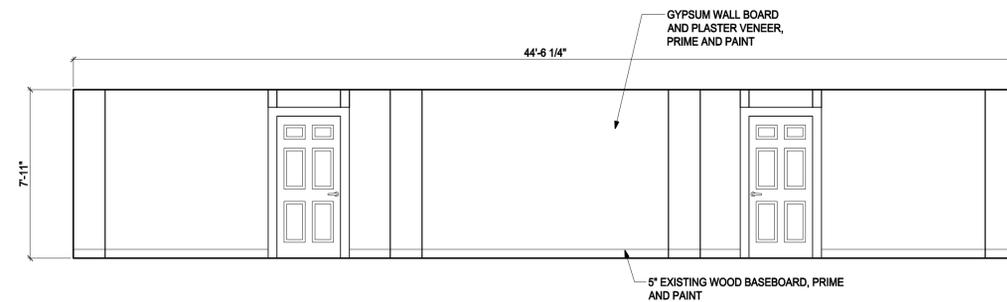
22 BASEMENT OPEN SPACE ELEVATION  
SCALE: 1/4"=1'-0"



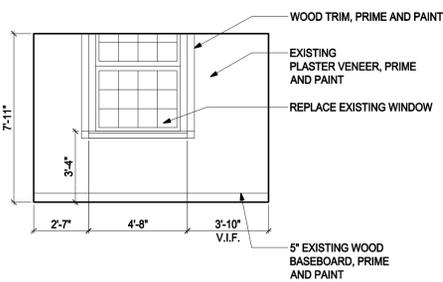
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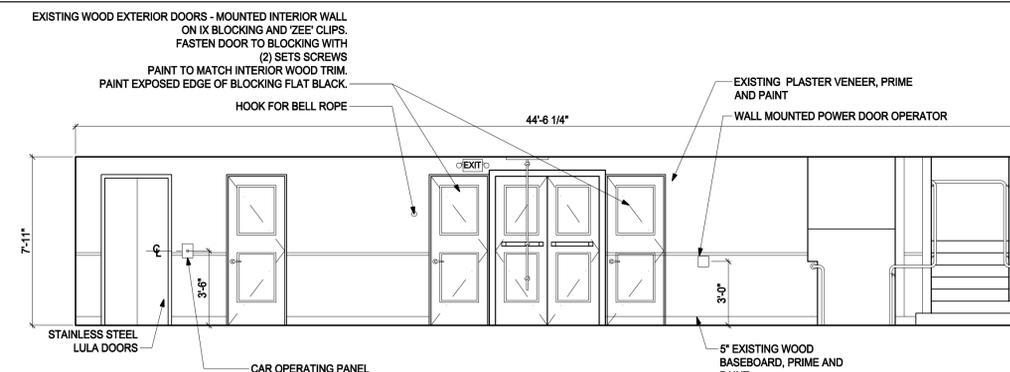
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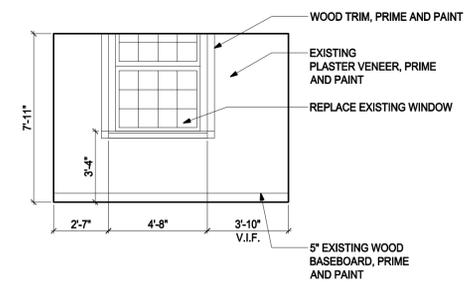
25 FIRST FLOOR LOBBY ELEVATION  
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26 FIRST FLOOR LOBBY ELEVATION  
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27 FIRST FLOOR LOBBY ELEVATION  
SCALE: 1/4"=1'-0"



28 FIRST FLOOR LOBBY ELEVATION  
SCALE: 1/4"=1'-0"



Drawing Title:

BASEMENT & FIRST  
FLOOR INTERIOR  
ELEVATIONS

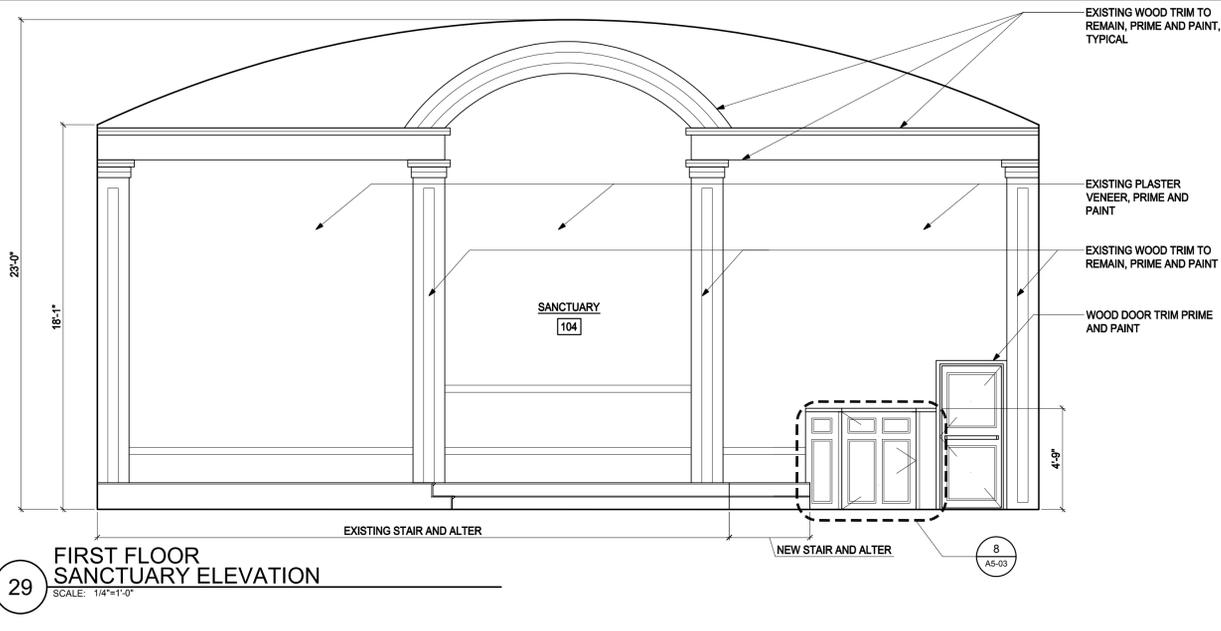
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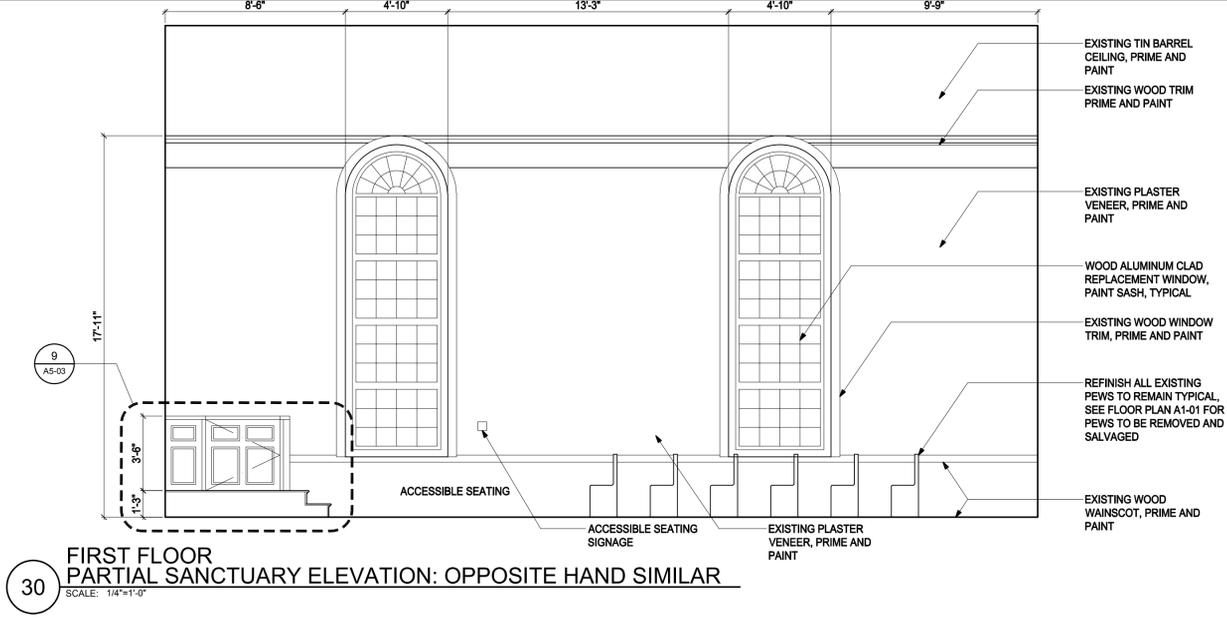
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DOCUMENTS**

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: MVM  
Scale: 1/4"=1'-0"

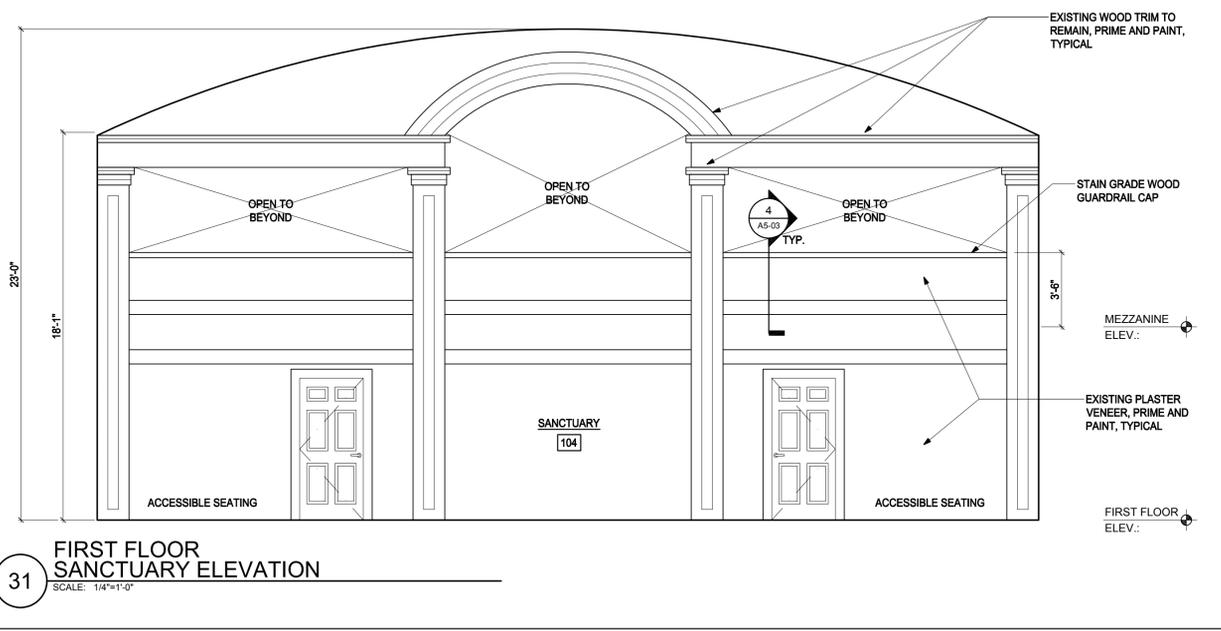
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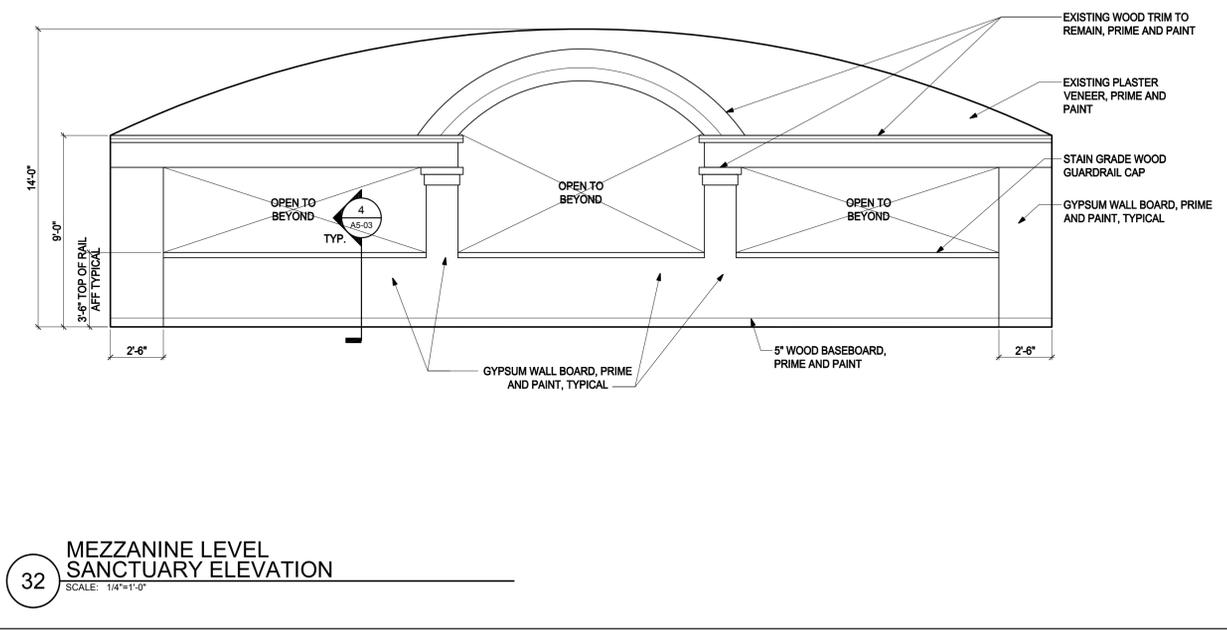
29 FIRST FLOOR SANCTUARY ELEVATION  
SCALE: 1/4"=1'-0"



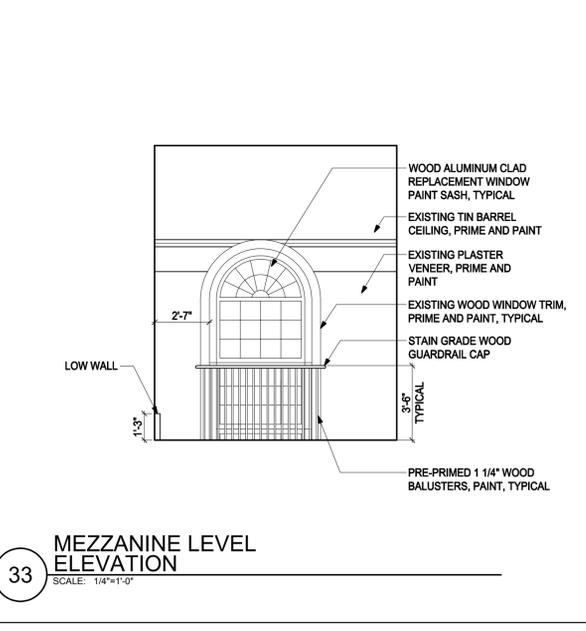
30 FIRST FLOOR PARTIAL SANCTUARY ELEVATION: OPPOSITE HAND SIMILAR  
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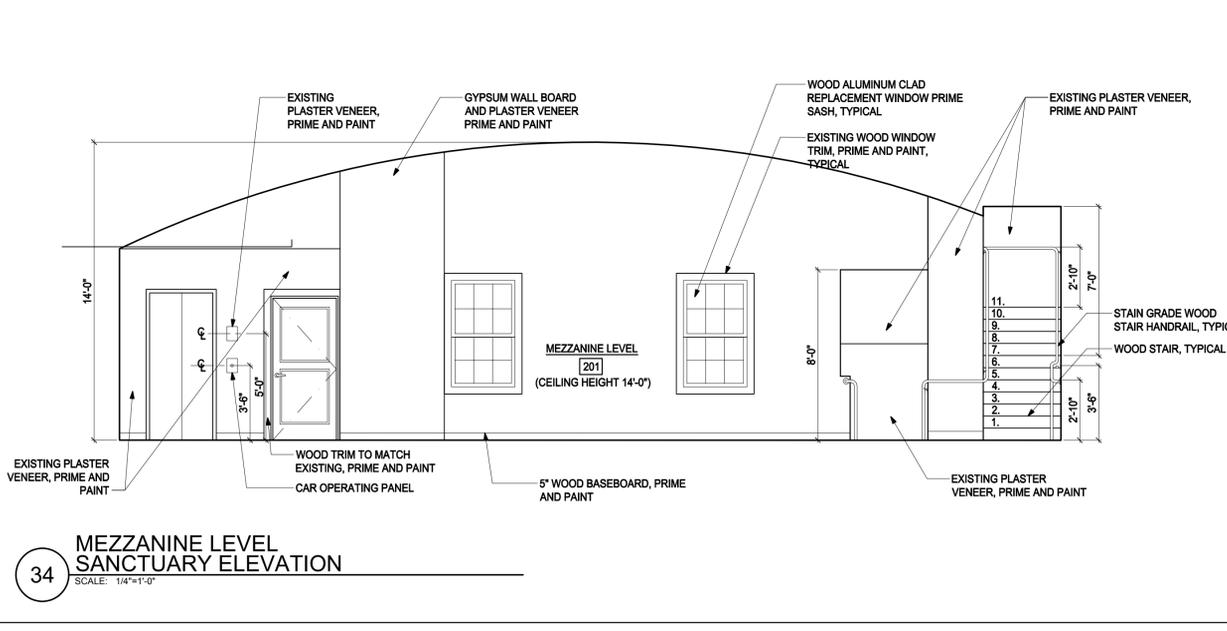
31 FIRST FLOOR SANCTUARY ELEVATION  
SCALE: 1/4"=1'-0"



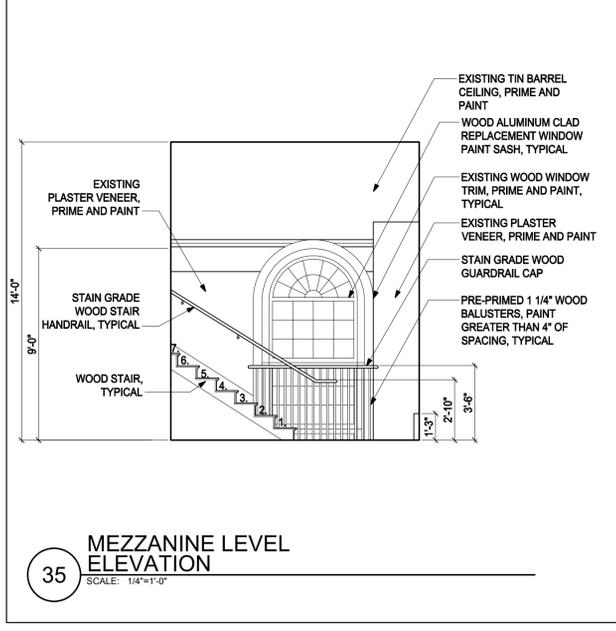
32 MEZZANINE LEVEL SANCTUARY ELEVATION  
SCALE: 1/4"=1'-0"



33 MEZZANINE LEVEL ELEVATION  
SCALE: 1/4"=1'-0"



34 MEZZANINE LEVEL SANCTUARY ELEVATION  
SCALE: 1/4"=1'-0"



35 MEZZANINE LEVEL ELEVATION  
SCALE: 1/4"=1'-0"



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www.vidaris.com

FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



TOWN OF TYNGSBOROUGH

FIRST FLOOR INTERIOR ELEVATIONS

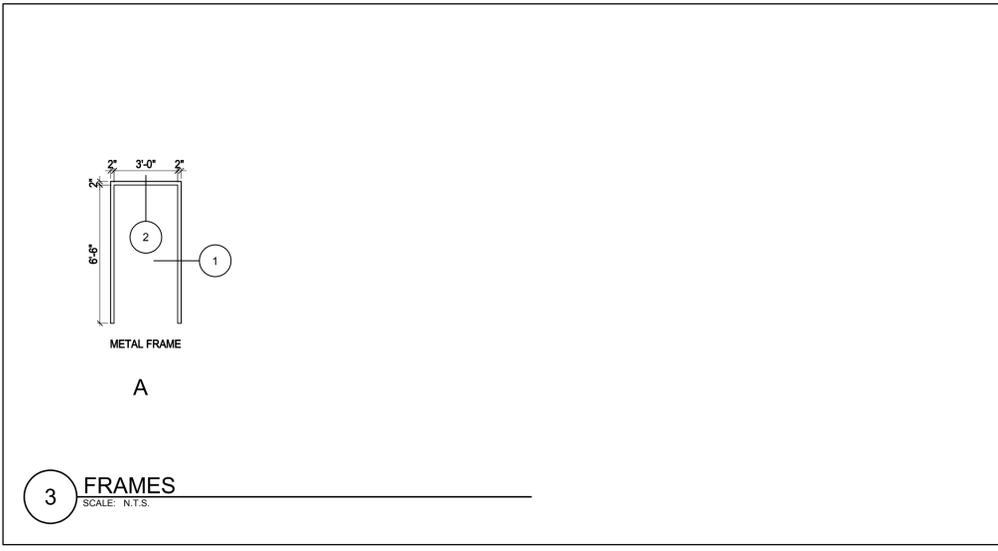
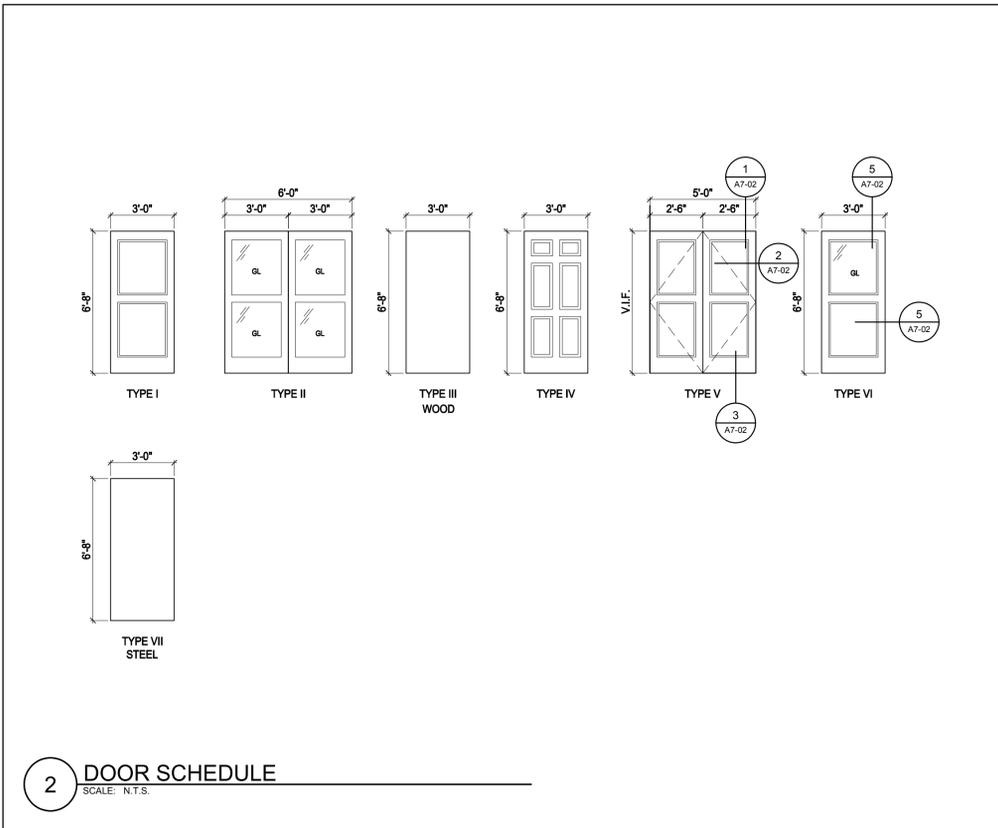
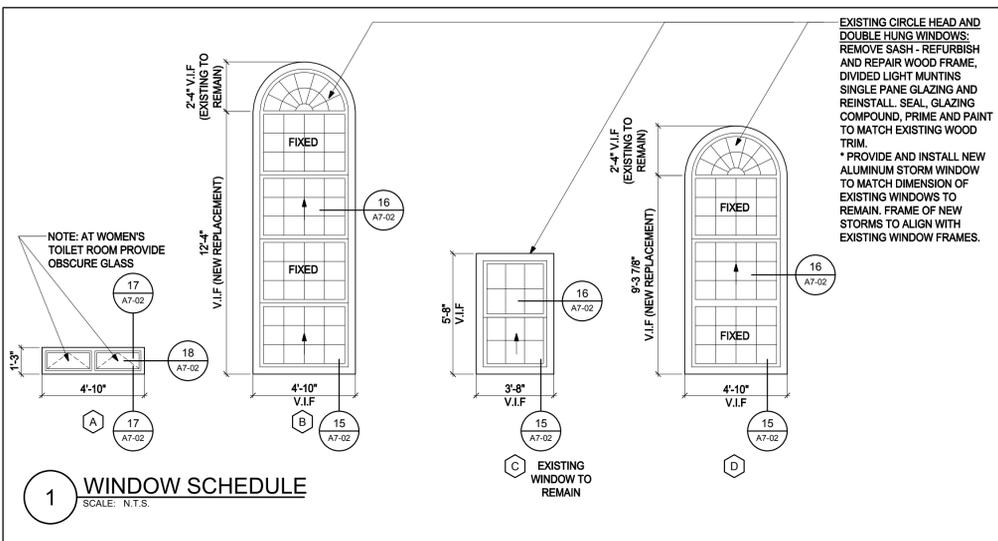
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Project Manager: RD  
Drawn By: MVM/PT  
Scale: 1/4"=1'-0"

A6-04

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**DOOR SCHEDULE**

DOOR #	FROM RM	TO RM	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	DOOR FINISH	FRAME TYPE	WALL	MATERIAL FRAME	FRAME FINISH	DETAILS THRESHOLD	HARDWARE	SETS	REMARKS
01	FOYER	WOMEN'S TOILET ROOM	3'-0"	6'-8"	0'-1 3/4"	I	WOOD	PAINT	A	GYPSON	WOOD	PAINT	-	CLOSER	4	
02	HALL 1	MEN'S TOILET ROOM	3'-0"	6'-8"	0'-1 3/4"	I	WOOD	PAINT	A	GYPSON	WOOD	PAINT	-	CLOSER	4	
03	KITCHEN	OPEN SPACE	(2) 3'-0"	6'-8"	0'-1 3/4"	II	WOOD	PAINT	A	GYPSON	WOOD	PAINT	-		2	
04	MEETING ROOM	OPEN SPACE	(2) 3'-0"	6'-8"	0'-1 3/4"	II	WOOD	PAINT	A	GYPSON	WOOD	PAINT	-		2	
05	HALL 2	STAIR 2	3'-0"	6'-8"	0'-1 3/4"	I	WOOD	PAINT	A	GYPSON	METAL	PAINT	-		1	
06	HALL 2	STAIR 2	3'-0"	6'-8"	0'-1 3/4"	I	WOOD	PAINT	A	GYPSON	METAL	PAINT	MARBLE SADDLE		1	
07	OPEN SPACE	HALL 2	3'-0"	6'-8"	0'-1 3/4"	I	WOOD	PAINT	A	GYPSON	METAL	PAINT	-	PANIC/CLOSER	9	
08	HALL 2	STAIR 2	3'-0"	6'-8"	0'-1 3/4"	I	WOOD	PAINT	A	GYPSON	METAL	PAINT	MARBLE SADDLE	PANIC/CLOSER	9	
09	STORAGE	FOYER	3'-0"	6'-6"	0'-1 3/4"	I	WOOD	PAINT	A	GYPSON	WOOD	PAINT	MARBLE SADDLE	CLOSER	1	
10	HALL 1	MECHANICAL	3'-0"	6'-6"	0'-1 3/4"	I	WOOD	PAINT	A	GYPSON	WOOD	PAINT	MARBLE SADDLE	CLOSER	2	
11	HALL 1	ELECTRICAL ROOM	3'-0"	6'-6"	0'-1 3/4"	I	WOOD	PAINT	A	GYPSON	METAL	PAINT	MARBLE SADDLE	CLOSER	2	FIRE RATED 1-HR
12	STORAGE	MECHANICAL	3'-0"	6'-6"	0'-1 3/4"	-	WOOD	PAINT	A	GYPSON	METAL	PAINT	MARBLE SADDLE	CLOSER	2	FIRE RATED 1-HR
13	HALL 1	MACHINE ROOM	3'-0"	6'-8"	0'-1 3/4"	III	WOOD	PAINT	A	GYPSON	WOOD	PAINT	MARBLE SADDLE	CLOSER	3	FIRE RATED 1-HR
14	KITCHEN	CLOSET	3'-0"	6'-8"	0'-1 3/4"	III	WOOD	PAINT	A	GYPSON	WOOD	PAINT	-	-	1	
15	SANCTUARY	LOBBY	3'-0"	6'-8"	0'-1 3/4"	IV	WOOD	PAINT	-	GYPSON	WOOD	PAINT	EXISTING	CLOSER	8	
16	SANCTUARY	LOBBY	3'-0"	8'-0"	0'-1 3/4"	IV	WOOD	PAINT	-	GYPSON	WOOD	PAINT	EXISTING	CLOSER	8	
17	SANCTUARY	EXTERIOR	3'-0"	6'-8"	0'-1 3/4"	I	WOOD	PAINT	-	GYPSON	WOOD	PAINT	ALUMINUM ADA	PANIC/CLOSER	6	WEATHERSTRIPPING
18	LOBBY	EXTERIOR	(2) 2'-6"	7'-2"	0'-1 3/4"	V	WOOD	PAINT	-	GYPSON	WOOD	PAINT	EXISTING	PANIC	6	NEW HINGES, WEATHERSTRIPPING AUTOMATIC DOOR OPENER
19	STORAGE	LOBBY	2'-6"	8'-0"	0'-1 3/4"	I	WOOD	STAIN	A	GYPSON	WOOD	PAINT	TRANSITION STRIP	CLOSER	1	
20	STORAGE	MEZZANINE	2'-6"	6'-8"	0'-1 3/4"	I	WOOD	STAIN	A	GYPSON	WOOD	PAINT	TRANSITION STRIP	CLOSER	1	
21	STAIR 1	ATTIC	2'-10"	6'-8"	0'-1 3/4"	I	WOOD	STAIN	A	GYPSON	WOOD	PAINT	TRANSITION STRIP	CLOSER	9	
22	STAIR 2	EXTERIOR	3'-0"	6'-8"	0'-1 3/4"	VII	STEEL	PAINT	A	GYPSON	METAL	PAINT	ALUMINUM ADA	PANIC/CLOSER	7	

NOTE: VERIFY ALL DIMENSIONS IN THE FIELD

**HARDWARE DESCRIPTION:**

STORAGE DOORS: HARDWARE SET 1:	MEETING ROOM KITCHEN DOORS: HARDWARE SET 2:	MEP DOORS: HARDWARE SET 3:	RESTROOM DOORS: HARDWARE SET 4:	SANCTUARY DOOR: HARDWARE SET 5:	ENTRY DOOR FIRST FLOOR: HARDWARE SET 6:	ENTRY DOOR BASEMENT: HARDWARE SET 7:	SANCTUARY DOOR: HARDWARE SET 8:	EGRESS DOOR: HARDWARE SET 9:
-AGED BRONZE FINISH -LEVER SET/PASSAGE -12" PROTECTION PLATE PUSH SIDE	-AGED BRONZE FINISH -LEVER HANDLES/LOCK SET -LOCKED FROM CORRIDOR SIDE -12" KICK PLATE PUSH SIDE	-AGED BRONZE FINISH -LEVER HANDLES/LOCK SET -LOCK FROM CORRIDOR SIDE	-AGED BRONZE FINISH -LEVER HANDLES/LOCK SET TO MATCH-SEE PHOTO -FOUR (4) HINGES -12" KICK PLATE PUSH SIDE	-AGED BRONZE FINISH -LEVER HANDLE TO MATCH-SEE PHOTO -LOCK -PANIC BAR -THREE (3) BALL BEARING HINGES	-AGED BRONZE FINISH -LEVER HANDLE EXTERIOR -PANIC BAR -FOUR (4) BALL BEARING HINGES	-AGED BRONZE FINISH -PULL HANDLES STAIR SIDE ONLY -KEY LOCK STAIR SIDE ONLY -PANIC BAR WITH SURFACE MOUNTED FLOOR/HEAD BAR RELEASE -THREE (3) BALL BEARING HINGES	-AGED BRONZE FINISH -LEVER HANDLE EXTERIOR -LOCK FOR EXTERIOR ONLY -PANIC BAR WITH SURFACE MOUNTED FLOOR/HEAD BAR RELEASE -FOUR (4) BALL BEARING HINGES	-AGED BRONZE FINISH -LEVER HANDLE -PANIC BAR

-GAREFULLY REMOVE EXISTING DOOR BELL AND RE-INSTALL AFTER DOOR IS INSTALLED

**4 DOOR SCHEDULE**  
SCALE: N.T.S.

**FINISH SCHEDULE**

ROOM NO.	ROOM NAME	FLOOR	BASEBOARD	BASEBOARD FINISH	WALLS	FINISH	CEILING	FINISH	REMARKS
001	FOYER		CERAMIC TILE	WOOD	PAINT	GYPSON BOARD	PAINT	A.C.T.	N/A
002	HALL 1		CERAMIC TILE	WOOD	PAINT	GYPSON BOARD	PAINT	A.C.T.	N/A
003	HALL 2		CERAMIC TILE	WOOD	PAINT	GYPSON BOARD	PAINT	A.C.T.	N/A
004	OPEN SPACE		CERAMIC TILE	WOOD	PAINT	GYPSON BOARD	PAINT	A.C.T.	N/A
005	MEETING ROOM		CERAMIC TILE	WOOD	PAINT	GYPSON BOARD	PAINT	A.C.T.	N/A
006	STORAGE		CERAMIC TILE	WOOD	PAINT	GYPSON BOARD	PAINT	A.C.T.	N/A
007	STORAGE		V.C.T.	WOOD	PAINT	GYPSON BOARD	PAINT	GYPSON WALLBOARD	PAINT
008	KITCHEN		CERAMIC TILE	WOOD	PAINT	GYPSON BOARD	PAINT	ACT	N/A
009	MECHANICAL ROOM		V.C.T.	VINYL COVE	NA	GYPSON BOARD	PAINT	GYPSON WALLBOARD	PAINT
010	STORAGE		V.C.T.	VINYL COVE	NA	GYPSON BOARD	PAINT	GYPSON WALLBOARD	PAINT
011	ELECTRICAL ROOM		V.C.T.	VINYL COVE	NA	GYPSON BOARD	PAINT	GYPSON WALLBOARD	PAINT
012	LULA MACHINE ROOM		V.C.T.	VINYL COVE	NA	GYPSON BOARD	PAINT	GYPSON WALLBOARD	PAINT
013	MECHANICAL ROOM		V.C.T.	VINYL COVE	NA	GYPSON BOARD	PAINT	GYPSON WALLBOARD	PAINT
014	LULA	EXPOSED CONCRETE	NONE	NA	GYPSON BOARD	PAINT	GYPSON WALLBOARD	PAINT	1-HR RATED CEILING AT TOP OF SHAFT
015	WOMEN'S TOILET ROOM		CERAMIC TILE	C.T.	NA	C.T./CEMENT BOARD	NA	A.C.T.	N/A
016	MEN'S TOILET ROOM		CERAMIC TILE	C.T.	NA	C.T./CEMENT BOARD	NA	A.C.T.	N/A
017	STAIR 2		V.C.T.	V.C.T.	NA	GYPSON BOARD	PAINT	A.C.T.	N/A
018	CLOSET		CERAMIC TILE	C.T.	PAINT	GYPSON BOARD	PAINT	A.C.T.	N/A
101	STAIR 1		SOLID WOOD	WOOD	PAINT	EXISTING PLASTER	PAINT	EXISTING PLASTER	PAINT
102	LOBBY		EXISTING WOOD	EXISTING WOOD	PAINT	EXISTING PLASTER	PAINT	EXISTING PLASTER	PAINT
103	STORAGE		V.C.T.	WOOD	PAINT	EXISTING PLASTER	PAINT	A.C.T.	N/A
104	SANCTUARY		EXISTING WOOD / WOOD	WOOD	PAINT	EXISTING PLASTER	PAINT	EXISTING TIN	PAINT
201	MEZZANINE LEVEL		EXISTING WOOD	EXISTING WOOD/ WOOD	PAINT	EXISTING PLASTER BOARD/WOOD	PAINT	EXISTING TIN	PAINT
202	STORAGE		V.C.T.	WOOD	PAINT	GYPSON BOARD/ EXISTING PLASTER	NA	A.C.T.	N/A
	WOOD PLATFORM								

**5 FINISH SCHEDULE**  
SCALE: N.T.S.

**CBI CONSULTING, LLC.**  
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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**

**DOOR AND WINDOW SCHEDULE AND FINISH SCHEDULE**

Drawing Title:

Revisions:

Submission:

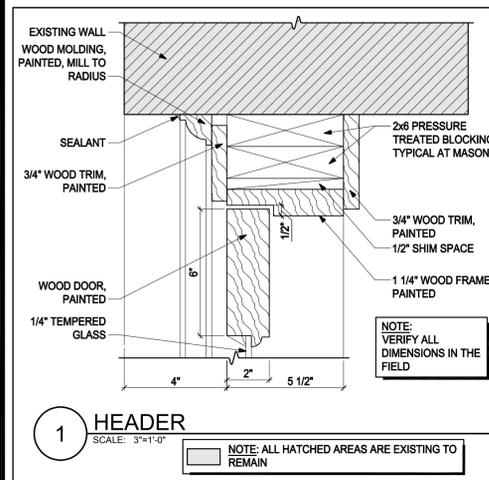
**BIDDING DOCUMENTS**

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: EMC/MVM/BD  
Scale: AS NOTED

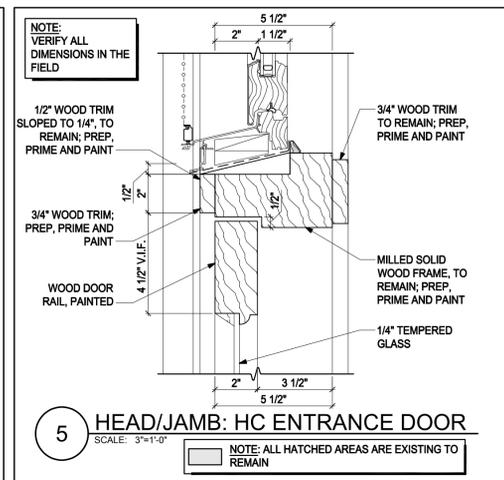
**A7-01**

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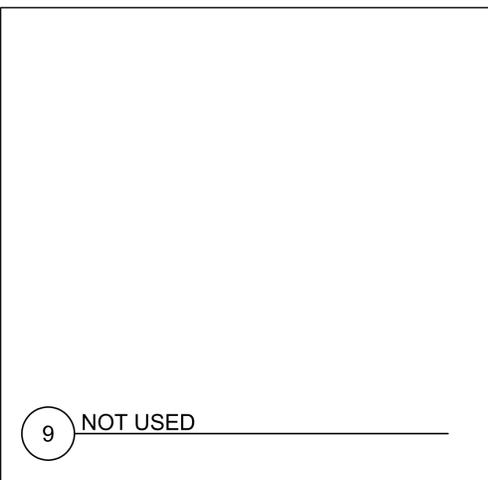
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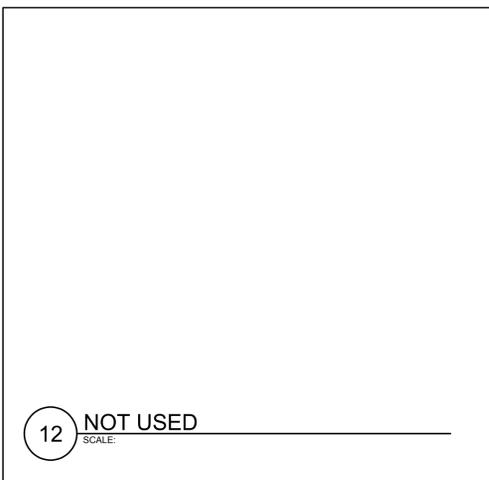
**1** HEADER  
SCALE: 3/4"=1'-0"  
NOTE: ALL HATCHED AREAS ARE EXISTING TO REMAIN



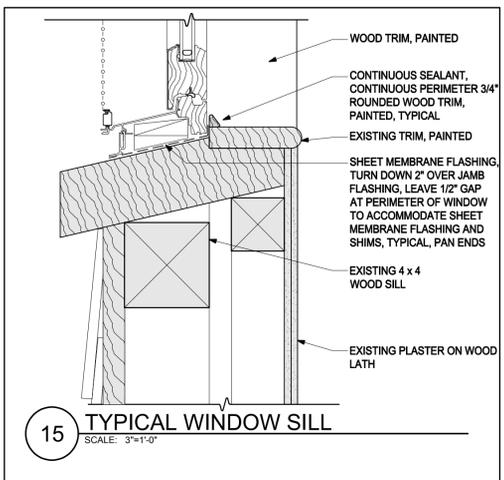
**5** HEAD/JAMB: HC ENTRANCE DOOR  
SCALE: 3/4"=1'-0"  
NOTE: ALL HATCHED AREAS ARE EXISTING TO REMAIN



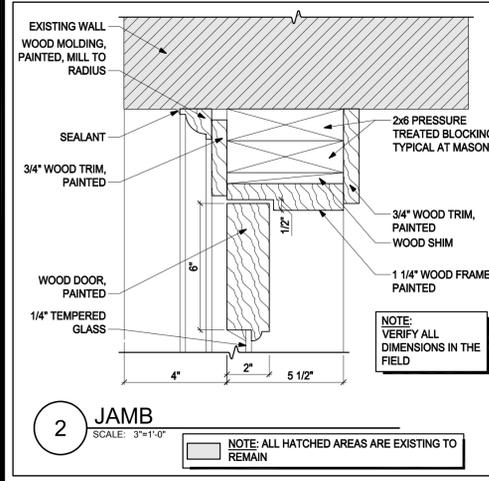
**9** NOT USED



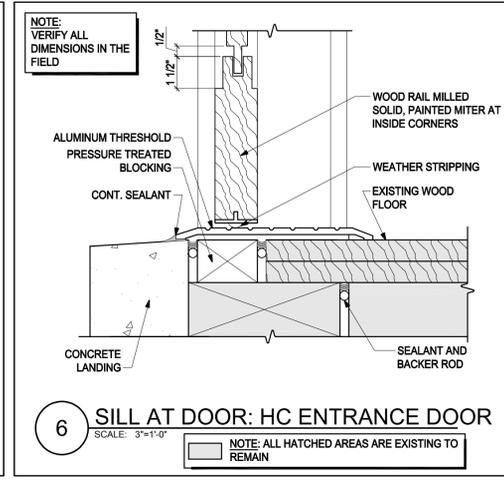
**12** NOT USED



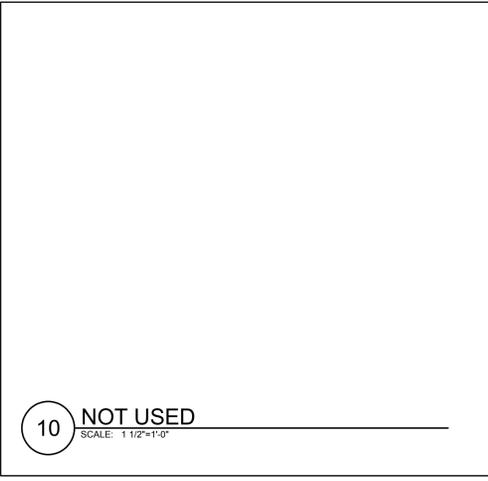
**15** TYPICAL WINDOW SILL  
SCALE: 3/4"=1'-0"



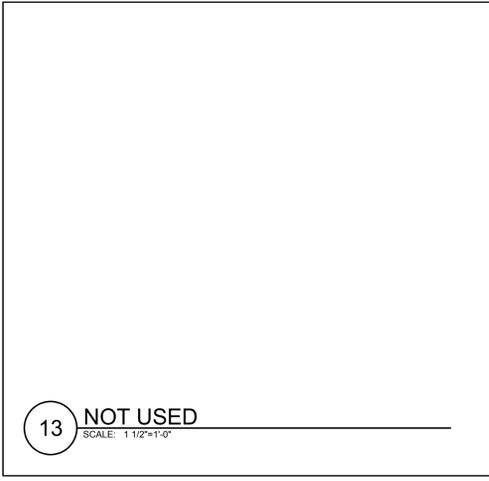
**2** JAMB  
SCALE: 3/4"=1'-0"  
NOTE: ALL HATCHED AREAS ARE EXISTING TO REMAIN



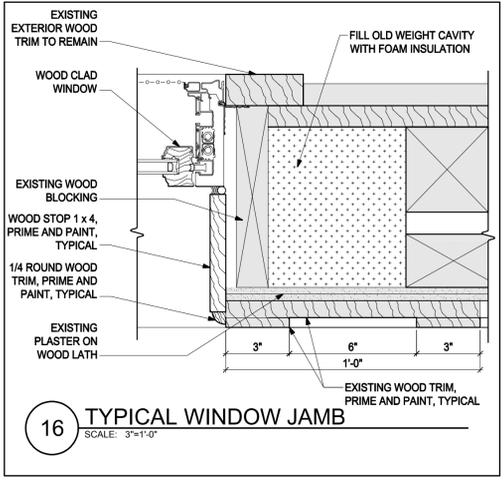
**6** SILL AT DOOR: HC ENTRANCE DOOR  
SCALE: 3/4"=1'-0"  
NOTE: ALL HATCHED AREAS ARE EXISTING TO REMAIN



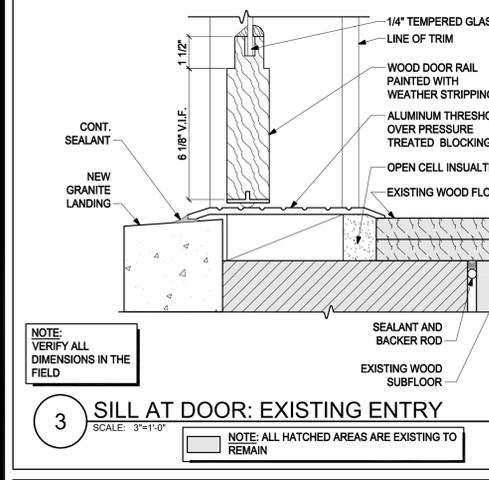
**10** NOT USED



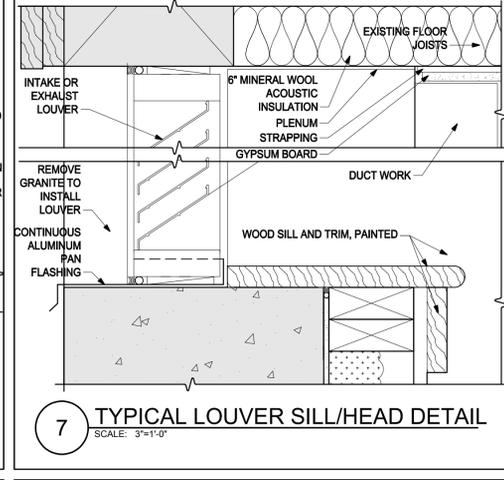
**13** NOT USED



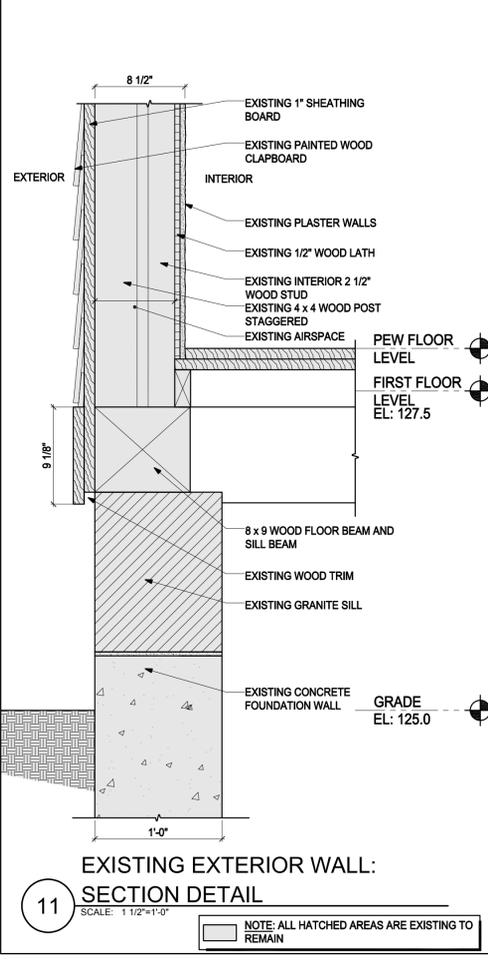
**16** TYPICAL WINDOW JAMB  
SCALE: 3/4"=1'-0"



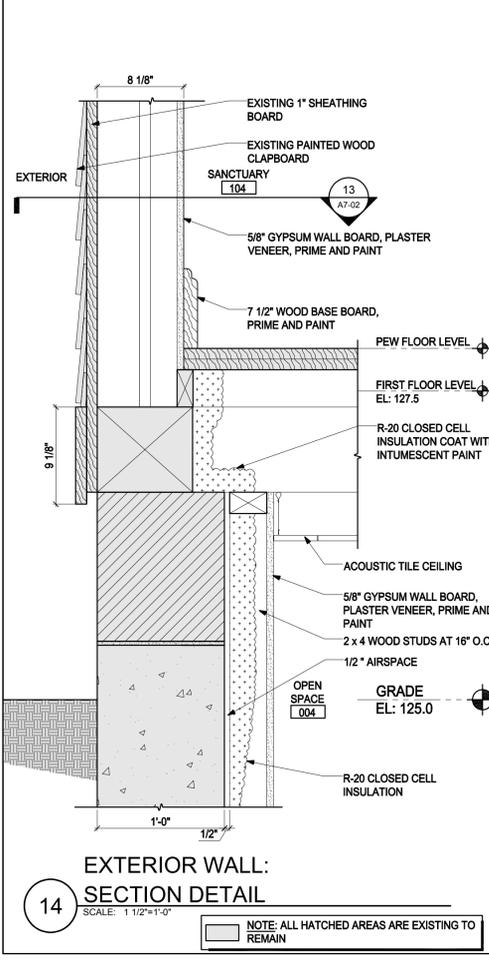
**3** SILL AT DOOR: EXISTING ENTRY  
SCALE: 3/4"=1'-0"  
NOTE: ALL HATCHED AREAS ARE EXISTING TO REMAIN



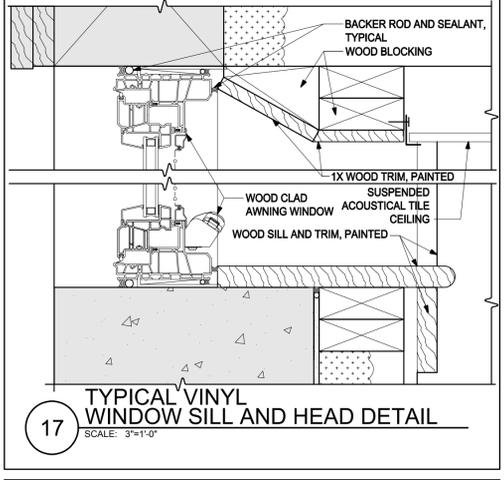
**7** TYPICAL LOUVER SILL/HEAD DETAIL  
SCALE: 3/4"=1'-0"



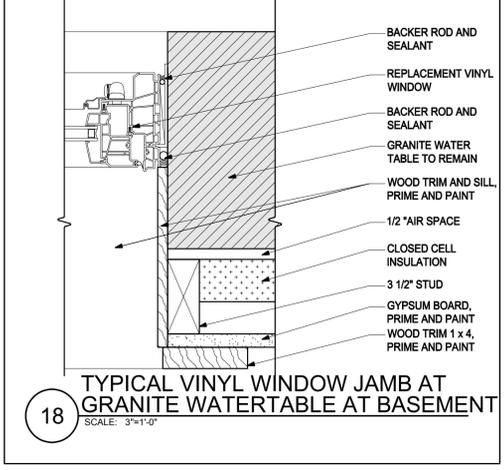
**11** EXISTING EXTERIOR WALL: SECTION DETAIL  
SCALE: 1 1/2"=1'-0"  
NOTE: ALL HATCHED AREAS ARE EXISTING TO REMAIN



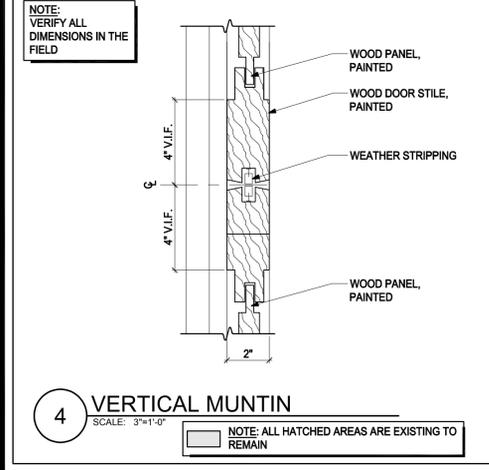
**14** EXTERIOR WALL: SECTION DETAIL  
SCALE: 1 1/2"=1'-0"  
NOTE: ALL HATCHED AREAS ARE EXISTING TO REMAIN



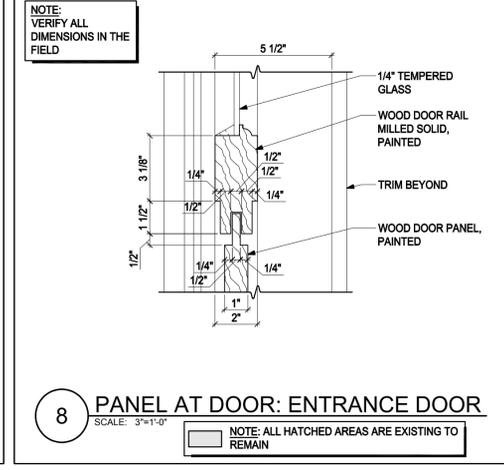
**17** TYPICAL VINYL WINDOW SILL AND HEAD DETAIL  
SCALE: 3/4"=1'-0"



**18** TYPICAL VINYL WINDOW JAMB AT GRANITE WATERTABLE AT BASEMENT  
SCALE: 3/4"=1'-0"



**4** VERTICAL MUNTIN  
SCALE: 3/4"=1'-0"  
NOTE: ALL HATCHED AREAS ARE EXISTING TO REMAIN



**8** PANEL AT DOOR: ENTRANCE DOOR  
SCALE: 3/4"=1'-0"  
NOTE: ALL HATCHED AREAS ARE EXISTING TO REMAIN



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FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



TOWN OF TYNGSBOROUGH

DOOR AND WINDOW DETAILS, TYPICAL DETAILS

Drawing Title:

Revisions:

BIDDING DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: JP  
Scale: AS NOTED

A7-02



EXISTING CHIMNEY TO BE REMOVED AND DISPOSED OF

1 EXISTING EXTERIOR NORTH ELEVATION  
SCALE: NTS



EXISTING CHIMNEY TO BE REMOVED AND DISPOSED OF

NEW DOOR OPENING AT RAMP

2 EXISTING EXTERIOR EAST ELEVATION  
SCALE: NTS



LOCATION OF RAMP

3 EXISTING EXTERIOR EAST ELEVATION  
SCALE: NTS



4 VIEW OF NORTH AND EAST ELEVATIONS  
SCALE: NTS



5 EXISTING EXTERIOR WEST ELEVATION  
SCALE: NTS



6 EXISTING EAST GRANITE AND CONCRETE FOUNDATION  
SCALE: NTS



RAMP LOCATION

7 EXISTING EAST WALL AND FOUNDATION  
SCALE: NTS



RAMP LOCATION

8 EXISTING EAST WALL AND FOUNDATION  
SCALE: NTS



9 FRONT ENTRY  
SCALE: NTS



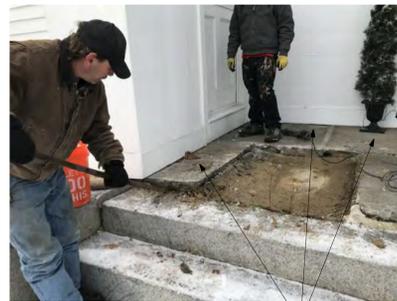
EXISTING GRANITE STAIRS TO BE SALVAGED

EXISTING METAL RAILS TO BE REMOVED AND DISPOSED OF

10 ENTRY STAIRS  
SCALE: NTS



11 ENTRY LANDING AND STAIRS  
SCALE: NTS

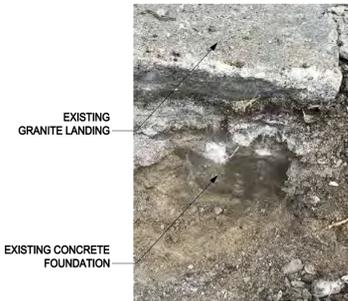


EXISTING GRANITE LANDING STONES TO BE SALVAGED

12 ENTRY LANDING  
SCALE: NTS



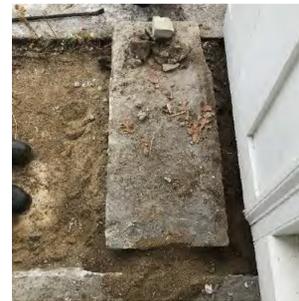
13 ENTRY LANDING  
SCALE: NTS



EXISTING GRANITE LANDING

EXISTING CONCRETE FOUNDATION

14 ENTRY LANDING CONCRETE FOUNDATION  
SCALE: NTS



15 LANDING GRANITE STAIR  
SCALE: NTS



16 GRANITE LANDING AND STAIR  
SCALE: NTS



17 UNDERSIDE OF FACE OF BUILDING  
SCALE: NTS



18 GRANITE STAIR  
SCALE: NTS



19 GRANITE STAIR  
SCALE: NTS



20 GRANITE STAIR  
SCALE: NTS

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FIRST PARISH  
MEETING HOUSE  
INTERIOR  
RENOVATION



TOWN OF  
TYNGSBOROUGH

Drawing Title:

EXISTING  
CONDITIONS  
PHOTOS

Revisions:

Submission:

BIDDING  
DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: AMW  
Drawn By: RF/BDO  
Scale: AS NOTED

**A10-01**



1 BASEMENT: ACTIVITY SPACE  
SCALE: N.T.S.



2 BASEMENT: ACTIVITY SPACE  
SCALE: N.T.S.



3 BASEMENT: EXISTING STAIR 3 TO FIRST FLOOR  
SCALE: N.T.S.



4 BASEMENT: KITCHEN  
SCALE: N.T.S.



5 BASEMENT: EXISTING BEAMS  
SCALE: N.T.S.



6 BASEMENT: V.C.T. FLOORING  
SCALE: N.T.S.



7 BASEMENT: EXISTING STAIR 3 TO FIRST FLOOR  
SCALE: N.T.S.



8 BASEMENT: EXISTING STAIR 3 FROM FIRST FLOOR  
SCALE: N.T.S.



9 BASEMENT: WATER HEATER  
SCALE: N.T.S.



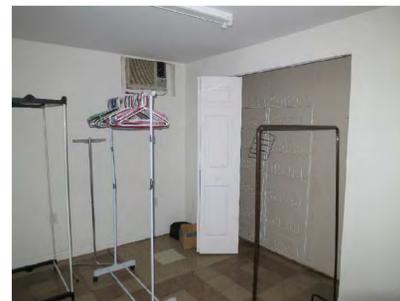
10 BASEMENT: FURNACE  
SCALE: N.T.S.



11 BASEMENT: FURNACE  
SCALE: N.T.S.



12 BASEMENT: ELECTRICAL  
SCALE: N.T.S.



13 BASEMENT: CLASSROOM  
SCALE: N.T.S.



14 BASEMENT: CLASSROOM  
SCALE: N.T.S.



15 BASEMENT: TOILET  
SCALE: N.T.S.



16 BASEMENT: FIRST FLOOR FRAMING  
SCALE: N.T.S.



17 BASEMENT: KITCHEN CEILING  
SCALE: N.T.S.



18 BASEMENT: CLASSROOM POST AND BEAM  
SCALE: N.T.S.



19 BASEMENT: WOOD SIDING FINISH  
SCALE: N.T.S.



20 BASEMENT: LALLY COLUMN  
SCALE: N.T.S.



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FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



TOWN OF TYNGSBOROUGH

EXISTING CONDITIONS PHOTOS

Revisions:

BIDDING DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: AMW  
Drawn By: RF  
Scale: NTS

A10-02

P:\2017\17009\AutoCAD\SHETS\After\_10.03.2018 (RD as PM)\17009 A10-01 to A10-04 Existing Conditions Photos.dwg Oct 31, 2018 - 4:12 pm FPA/SA



EXISTING CARPET TO BE REMOVED AND DISPOSED OF

1 FIRST FLOOR LOBBY  
SCALE: N.T.S.



2 FIRST FLOOR: STAIR DOORS  
SCALE: N.T.S.



3 FIRST FLOOR: ENTRY DOOR  
SCALE: N.T.S.



4 FIRST FLOOR:  
STAIR FROM BASEMENT  
SCALE: N.T.S.



5 FIRST FLOOR:  
SIDE DOOR TO ENTRY LANDING  
SCALE: N.T.S.



WOOD INFILL TO BE REMOVED AND DISPOSED OF

6 FIRST FLOOR: SANCTUARY  
SCALE: N.T.S.



7 FIRST FLOOR: SANCTUARY  
PEWS AND PENDANT LIGHT  
SCALE: N.T.S.



EXISTING ORGAN TO REMAIN

8 FIRST FLOOR: SANCTUARY  
SCALE: N.T.S.



9 FIRST FLOOR: ALTAR  
SCALE: N.T.S.



10 FIRST FLOOR: TALL WINDOWS  
SCALE: N.T.S.



11 FIRST FLOOR: SANCTUARY & PEWS  
SCALE: N.T.S.



12 FIRST FLOOR:  
SANCTUARY REAR PEW  
SCALE: N.T.S.



13 FIRST FLOOR: SANCTUARY  
INSIDE CORNER ADJACENT TO ALTAR  
SCALE: N.T.S.



13 FIRST FLOOR:  
SANCTUARY PEW DETAIL  
SCALE: N.T.S.



15 FIRST FLOOR: EXTERIOR  
WALL DESTRUCTIVE INVESTIGATION  
SCALE: N.T.S.



16 FIRST FLOOR: EXTERIOR  
WALL DESTRUCTIVE INVESTIGATION  
SCALE: N.T.S.



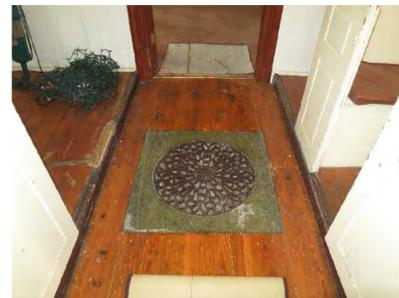
17 FIRST FLOOR:  
SANCTUARY LATH AND PLASTER  
SCALE: N.T.S.



18 FIRST FLOOR:  
SANCTUARY CEILING TEST, TIN  
SCALE: N.T.S.



19 FIRST FLOOR:  
SANCTUARY PENDANT LIGHT  
SCALE: N.T.S.



20 FIRST FLOOR: SANCTUARY  
WOOD FLOOR AND FLOOR VENT  
SCALE: N.T.S.

P:\2017\17009\AutoCAD\SHETS\After\_10.03.2018 (RD as PM)\17009 A10-01 to A10-04 Existing Conditions Photos.dwg Oct 31, 2018 - 4:12 pm FPA/SA

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FIRST PARISH  
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RENOVATION



TOWN OF  
TYNGSBOROUGH

Drawing Title:

FIRST FLOOR  
EXISTING  
PHOTOS

Revisions:

Submission:

BIDDING  
DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: AMW  
Drawn By: RF  
Scale: AS NOTED

**A10-03**



1 MEZZANINE: BARREL TIN CEILING  
SCALE: SCALE



2 MEZZANINE: BARREL TIN CEILING  
SCALE: N.T.S.



3 MEZZANINE: WOOD FLOOR  
SCALE: N.T.S.



4 MEZZANINE: CLASS ROOM SHELVING  
SCALE: N.T.S.



5 MEZZANINE: HALF ROUND AT TOP OF TALL WINDOW  
SCALE: N.T.S.



EXISTING CHIMNEY TO BE REMOVED

6 MEZZANINE: TALL WINDOW AT CLASSROOM  
SCALE: N.T.S.



7 MEZZANINE: CLASSROOM ACT CEILING  
SCALE: N.T.S.



8 MEZZANINE: TALL WINDOW GAP AT MEZZANINE FLOOR  
SCALE: N.T.S.



9 MEZZANINE: TO STORAGE ROOM  
SCALE: N.T.S.



10 MEZZANINE: STORAGE ROOM AND EXISTING VENT STACK  
SCALE: N.T.S.



11 MEZZANINE: FLOOR TEST CUT  
SCALE: N.T.S.



12 MEZZANINE: STAIR TO FIRST FLOOR  
SCALE: N.T.S.



13 MEZZANINE: STAIR TO MEZZANINE  
SCALE: N.T.S.



14 MEZZANINE: STAIR TO ATTIC  
SCALE: N.T.S.



15 MEZZANINE: STAIR TO PLATFORM  
SCALE: N.T.S.



16 ATTIC: STAIR FROM MEZZANINE TO ATTIC  
SCALE: N.T.S.



17 ATTIC: STAIR TO PLATFORM  
SCALE: N.T.S.



18 ATTIC: PLATFORM TO BELL TOWER STAIR  
SCALE: N.T.S.



19 ATTIC FRAMING  
SCALE: N.T.S.



20 ATTIC FRAMING  
SCALE: N.T.S.

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Date: 10/31/2018  
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Project Manager: RD  
Drawn By: RF  
Scale: AS NOTED

# A10-04

**GENERAL:**

- G1. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND COORDINATING ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. IN CASE OF CONFLICT, THE ARCHITECT SHALL BE NOTIFIED TO RESOLVE THE CONFLICT.
- G2. IN ANY CASE OF CONFLICT BETWEEN OR WITHIN THE DRAWINGS AND SPECS AND THE PROJECT SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN, AT THE SOLE DISCRETION OF THE ARCHITECT.
- G3. THE CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.
- G4. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
- G5. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND LOCAL LAWS AND REGULATIONS.
- G6. GENERAL CONTRACTOR SHALL COORDINATE LOCATIONS OF OPENINGS, PITS, BOXES, SUMPS, TRENCHES, SLEEVES, DEPRESSIONS, GROOVES, AND CHAMFERS, WITH MECHANICAL, ELECTRICAL AND PLUMBING TRADES.
- G7. THE STRUCTURAL DESIGN OF THE BUILDING IS BASED ON THE FULL INTERACTION OF ALL ITS COMPONENT PARTS. NO PROVISIONS HAVE BEEN MADE FOR CONDITIONS OCCURRING DURING CONSTRUCTION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE PROPER AND ADEQUATE PROVISIONS FOR STABILITY OF, AND ALL STRESSES TO, THE STRUCTURE DUE TO ANY CAUSE DURING CONSTRUCTION.
- G8. CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REQUEST ALL DIMENSIONS OR INFORMATION REQUIRED TO PERFORM THE WORK FROM THE ARCHITECT. WORK COMPLETED BY THE CONTRACTOR WITHOUT DIMENSIONS OR INFORMATION SHALL BE DONE AT THE CONTRACTOR'S OWN RISK AND SHALL BE REMOVED AND REINSTALLED TO THE SPECIFICATIONS OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- G9. MEANS AND METHODS OF CONSTRUCTION AS WELL AS COMPLIANCE WITH OSHA AND OTHER SAFETY LAWS AND REGULATIONS IS EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR, HIS OR HERS SUBCONTRACTOR(S), SUPPLIERS, CONSULTANTS AND WORKERS.

**STRUCTURAL DESIGN CRITERIA:**

- DC1. CODES: MASSACHUSETTS STATE BUILDING CODE - NINTH EDITION
- DC2. DESIGN LOADS:
 

LIVE LOADS:	
CORRIDORS	100 PSF
PUBLIC / ASSEMBLY AREAS	100 PSF
STAIRS	100 PSF
ROOF / ATTIC STORAGE	20 PSF
- DC3. FOUNDATION CONDITIONS ASSUMED FOR FOUNDATION DESIGN INCLUDE AN ALLOWABLE SOIL BEARING CAPACITY OF 1TSF AND FROST DEPTH OF 4 FT.

**FOUNDATIONS AND BACKFILL:**

- F1. ALL FOUNDATIONS SHALL BEAR ON UNDISTURBED MATERIAL. THE ARCHITECT SHALL BE NOTIFIED A MINIMUM OF 24 HOURS IN ADVANCE OF FOOTING CONCRETE PLACEMENT.
- F2. NO FOOTINGS SHALL BE PLACED IN WATER OR UPON FROZEN GROUND.
- F3. MATERIAL ADJACENT TO AND BELOW FOOTINGS SHALL BE KEPT FROM FREEZING AT ALL TIMES. IF ANY MATERIAL IS FOUND TO BE FROZEN IT SHALL BE REMOVED AND REPLACED WITH CONCRETE. IF ANY FROZEN MATERIAL IS FOUND BELOW THE SLAB-ON-GRADE, IT SHALL BE REMOVED AND REPLACED WITH ENGINEERED STRUCTURAL FILL.
- F4. HAND EXCAVATE THE FINAL 6 INCHES OF MATERIAL TO THE BEARING LEVEL AT ALL FOOTINGS.
- F5. ALL FOUNDATION WALLS SHALL BE BRACED DURING BACKFILL OPERATIONS AND SHALL REMAIN BRACED UNTIL PERMANENT RESTRAINTS HAVE BEEN INSTALLED. SEE THE CONCRETE NOTES FOR ADDITIONAL REQUIREMENTS.
- F6. ALL FOOTINGS AND PIERS SHALL BE CENTERED UNDER MEMBERS SUPPORTED UNLESS OTHERWISE NOTED.
- F7. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL DATA AND CRITERIA.
- F8. FOUNDATIONS AT THE EXTERIOR SHALL BE SET AT OR BELOW THE FROST DEPTH.

**CONCRETE:**

- C1. UNLESS OTHERWISE NOTED ALL CONCRETE SHALL BE NORMAL WEIGHT, 3/4" STONE CONCRETE WITH 4000 PSI 28 DAY COMPRESSIVE STRENGTH. ALL CONCRETE EXPOSED TO WEATHER AND CONCRETE FOR FOUNDATIONS SHALL BE AIR ENTRAINED 5% TO 7%.
- C2. ALL REINFORCING SHALL BE ASTM A-615 GRADE 60. WELDED WIRE FABRIC (W.W.F.) SHALL BE ASTM A-185.
- C3. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE FOR CONCRETE PLACEMENT. ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED FOR SUPPORT OF ALL BARS AS REQUIRED.
- C4. LAP CONTINUOUS REINFORCEMENT AS FOLLOWS, U.O.N. (ASSUMES CONCRETE COVER GREATER THAN ONE BAR DIAMETER, CENTER-TO-CENTER BAR SPACING GREATER THAN THREE BAR DIAMETERS):
 

<b>4000 PSI CONCRETE:</b>		
BAR SIZE	TOP BARS*	OTHER BARS
#3	18"	16"
#4	24"	19"
#5	30"	23"
#6	40"	31"

\*TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS
- C5. TERMINATE ALL CONTINUOUS BARS WITH STANDARD HOOKS.
- C6. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
 

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"
CAST AGAINST FORMS AND EXPOSED TO EARTH OR WEATHER:	
#6 AND LARGER:	2"
#5 AND SMALLER:	1 1/2"
NOT EXPOSED TO WEATHER OR EARTH, SLABS, WALLS, AND JOISTS:	
#14 AND LARGER:	1 1/2"
#11 AND SMALLER:	3/4"
BEAMS AND COLUMNS:	1 1/2"

- C7. CONSTRUCTION JOINTS ARE NOT PERMITTED EXCEPT AS SHOWN ON THE DRAWINGS OR AS REVIEWED BY THE ENGINEER. SLAB PLACEMENT SHALL NOT EXCEED 4000 SQ. FT. AND WALL PLACEMENT 80 FT. UNLESS APPROVED BY THE ENGINEER OF RECORD.
- C8. ALL CONCRETE SLABS-ON-GRADE SHALL HAVE MINIMUM WWF 6 X 6/W2.9 X W2.9 PER 4 INCH THICKNESS U.O.N. ALL WWF SHALL BE INSTALLED USING 2 1/2" HIGH BOLSTERS FOR 4" THICK SLABS.
- C9. MINIMUM 6 MIL POLYETHYLENE VAPOR BARRIER SHALL BE INSTALLED UNDER ALL CONCRETE SLABS-ON-GRADE U.O.N.
- C10. CONTRACTOR TO LOCATE AND COORDINATE ALL INSERTS, SLOTS, SLEEVES, OPENINGS, PIPES, ETC. AS REQUIRED.
- C11. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE OR WHICH INCREASE THE POTENTIAL FOR CORROSION OF EMBEDDED METAL ITEMS SHALL NOT BE USED IN ANY CONCRETE.
- C12. ALUMINUM ITEMS SHALL NOT BE PLACED IN CONCRETE.
- C13. PIPE OR CONDUIT EMBEDDED IN SLAB SHALL NOT EXCEED 1/3 THE SLAB THICKNESS AND SHALL BE PLACED WITHIN THE SLAB MIDDLE THIRD OF THICKNESS. MINIMUM CLEAR SPACING OF CONDUIT/PIPE IS 3 X OD. NO CONDUIT/PIPE TO BE PLACED CLOSER THAN 12" FROM COLUMN FACE.
- C14. CONCRETE DESIGN IS BASED ON ULTIMATE STRENGTH DESIGN OF ACI 318-14.
- C15. WELDING OF REINFORCING BARS IS NOT PERMITTED EXCEPT AS APPROVED BY THE ENGINEER OF RECORD.
- C16. CONTRACTOR IS RESPONSIBLE FOR PROPER AND ADEQUATE SHORING OF ALL CONCRETE WORK.

**MASONRY:**

- M1. CONCRETE MASONRY UNITS SHALL BE LOAD BEARING GRADE N-1 UNITS HAVING A MINIMUM NET COMPRESSIVE STRENGTH OF 2,500 PSI, CONFORMING TO ASTM C90, FOR A RESULTING FM NOT LESS THAN 1500 PSI. USE 2 CELL HOLLOW CMU UNITS FOR ALIGNMENT OF WEBS IN REINFORCED WALLS.
- M2. MORTAR SHALL BE TYPE M (F'C = 2500 PSI).
- M3. GROUT SHALL BE 2,500 PSI WITH PEA GRAVEL OF MAXIMUM AGGREGATE SIZE, CONFORMING TO NCMA STANDARDS.
- M4. REINFORCING SHALL CONFORM TO ASTM A615 GRADE 60. DOWEL ALL REINFORCEMENT TO OBTAIN 36 DIAMETER LAP FOR ALL VERTICAL AND HORIZONTAL SPLICES (TYPICAL). POSITION VERTICAL REINFORCING STEEL IN CENTER OF CELLS U.O.N. PLACE GROUT IN CONFORMANCE WITH EITHER LOW LIFT OR HIGH LIFT PROCEDURES AS OUTLINED BY NCMA. PROVIDE VERTICAL BARS AT ALL CORNERS, INTERSECTIONS, AND EACH SIDE OF OPENINGS. PROVIDE TWO #5 FULL HEIGHT EACH SIDE OF ALL OPENINGS AND AT DISCONTINUOUS ENDS OF ALL MASONRY WALLS AND GROUT SOLID FULL HEIGHT.
- M5. BOND BEAMS WITH TWO #5 HORIZONTAL SHALL BE PROVIDED AT EACH FLOOR LEVEL AND AT 4'-0" VERTICAL SPACING. SEE DRAWINGS FOR ALTERNATE HORIZONTAL REINFORCING. PROVIDE A BOND BEAM WITH TWO #5 HORIZONTAL OVER ALL OPENINGS, AND EXTEND THESE BARS 1'-0" PAST THE OPENING AT EACH SIDE. ALL BOND BEAMS SHALL BE FILLED WITH GROUT. PROVIDE CORNER BARS TO MATCH THE HORIZONTAL WALL REINFORCING AT WALL INTERSECTION. ALL BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS.
- M6. BLOCK SHALL BE SET WITH FULL FACE AND BED JOINTS. VISIBLE JOINTS SHALL HAVE A TOOLED CONCAVE JOINT. WINTER MASONRY SHALL BE PLACED USING NCMA STANDARDS AND RECOMMENDED PROCEDURES.

**WOOD:**

- W1. FRAMING LUMBER SHALL BE MARKED S-DRY. ALL MATERIALS SHALL BE CHECKED BEFORE USE, WITH ALL CHECKED, SPLIT AND OTHERWISE DEFICIENT STOCK REJECTED. OR USED ONLY FOR MISCELLANEOUS BLOCKING, FURRING OR OTHER INCIDENTAL USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL MEMBERS WHICH, DUE TO WARPAGE, TWIST, SPLITTING, OR CHECKING, RESULT IN UNSATISFACTORY WORK. SUCH REPLACEMENT SHALL BE REQUIRED AT ANY TIME, WHETHER BEFORE OR AFTER APPLICATION OF FINISH MATERIAL.
- W2. FRAMING LUMBER FOR BEAMS AND HEADERS SHALL BE SURFACE DRY SPRUCE-PINE-FIR NO.2, SHALL HAVE A MINIMUM BENDING STRESS FB NOT LESS THAN 875 PSI SINGLE MEMBER USE.
- W3. FRAMING LUMBER FOR STUDS SHALL BE SURFACE DRY SPRUCE-PINE-FIR NO.2 WITH AN FC PARALLEL TO THE GRAIN OF 1,150 PSI OR GREATER.
- W4. EXTERIOR WALL SHEATHING SHALL BE 3/4" THICK APA-RATED CDX GRADE STRUCTURAL I, WITH 10d COMMON NAILS @ 6" O.C. AT ALL SUPPORTS.
- W5. INTERIOR WALL SHEATHING SHALL BE 1/2" THICK APA-RATED CDX GRADE STRUCTURAL I, WITH 10d COMMON NAILS @ 6" O.C. AT ALL SUPPORTS.
- W6. FLOOR SHEATHING SHALL BE 3/4" THICK APA-RATED CDX GRADE STRUCTURAL I WITH 32/16 SPAN RATING. USE 10d COMMON NAILS, 1 1/2" MIN. EMBEDMENT, @ 6" O.C. AT SUPPORTING EDGES AND 12" O.C. AT INTERMEDIATE FRAMING MEMBERS. PLYCLIPS SHALL BE USED AT ALL UNSUPPORTED EDGES.
- W7. STAIR SHEATHING SHALL BE 5/8" THICK APA-RATED CDX GRADE STRUCTURAL I WITH 32/16 SPAN RATING. USE 10d COMMON NAILS, 1 1/2" MIN. EMBEDMENT, @ 6" O.C. AT SUPPORTING EDGES AND 12" O.C. AT INTERMEDIATE FRAMING MEMBERS. PLYCLIPS SHALL BE USED AT ALL UNSUPPORTED EDGES.
- W8. ALL WOOD EXPOSED TO WEATHER, ALL WOOD BLOCKING ON ROOFS, INCLUDING NAILERS, BLOCKING AND CURBS, AND THAT WHICH WILL BE CONCEALED BY ROOFING OR FLASHING WORK, OR WOOD IN CONTACT WITH CONCRETE OR MASONRY OR WITHIN 12 INCHES OF ADJACENT GRADE SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS INSTITUTE.
- W9. FABRICATED HARDWARE SHALL BE SELECTED FOR SIZE OF MEMBERS JOINED OR SUPPORTED AND TO DEVELOP THE FULL STRENGTH OF THE MEMBERS, AS DIRECTED BY THE ENGINEER. IN EXTERIOR AREAS OR WHERE IN CONTACT WITH CONCRETE OR MASONRY ROUGH HARDWARE SHALL BE HOT-DIPPED GALVANIZED. IN OTHER AREAS ELECTRO GALVANIZING WILL BE ACCEPTABLE.
- W10. ALL UNSPECIFIED CONNECTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND SHALL DEVELOP THE FULL CAPACITY OF THE MEMBERS JOINED.
- W11. LAMINATED VENEER LUMBER (LVL) SHALL BE "MICROLLAM" BY "TRUSS JOIST" GRADE 2.0E OR EQUIVALENT WITH A MINIMUM ALLOWABLE BENDING STRESS OF 2,600 PSI.

**SHOP DRAWINGS:**

- SD1. SHOP DRAWINGS SHALL BE SUBMITTED FOR LAYOUT OF CONCRETE REINFORCEMENT AND MISCELLANEOUS STEEL ELEMENTS / BRACKETS THAT WILL BE USED TO REINFORCE EXISTING STRUCTURAL ELEMENTS.
- SD2. DRAWINGS SHALL SHOW ALL LENGTHS, CONNECTIONS, SIZES, WELDS, ETC. AND RELATIONS OF MEMBERS TO AFFECTED CONSTRUCTION TRADES.
- SD3. DEVIATIONS FROM PLAN DETAILS SHALL BE CLEARLY SHOWN.
- SD4. SHOP DRAWINGS WILL NOT BE CHECKED FOR DIMENSIONS.

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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**

Drawing Title:

**STRUCTURAL GENERAL NOTES**

Revisions:

Submission:

**BIDDING DOCUMENTS**

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: CRW  
Scale: N.T.S.

**S0-01**

FIRST PARISH  
MEETING HOUSE  
INTERIOR  
RENOVATION



TOWN OF  
TYNGSBOROUGH

Drawing Title:

DEMOLITION  
FOR NEW LULA

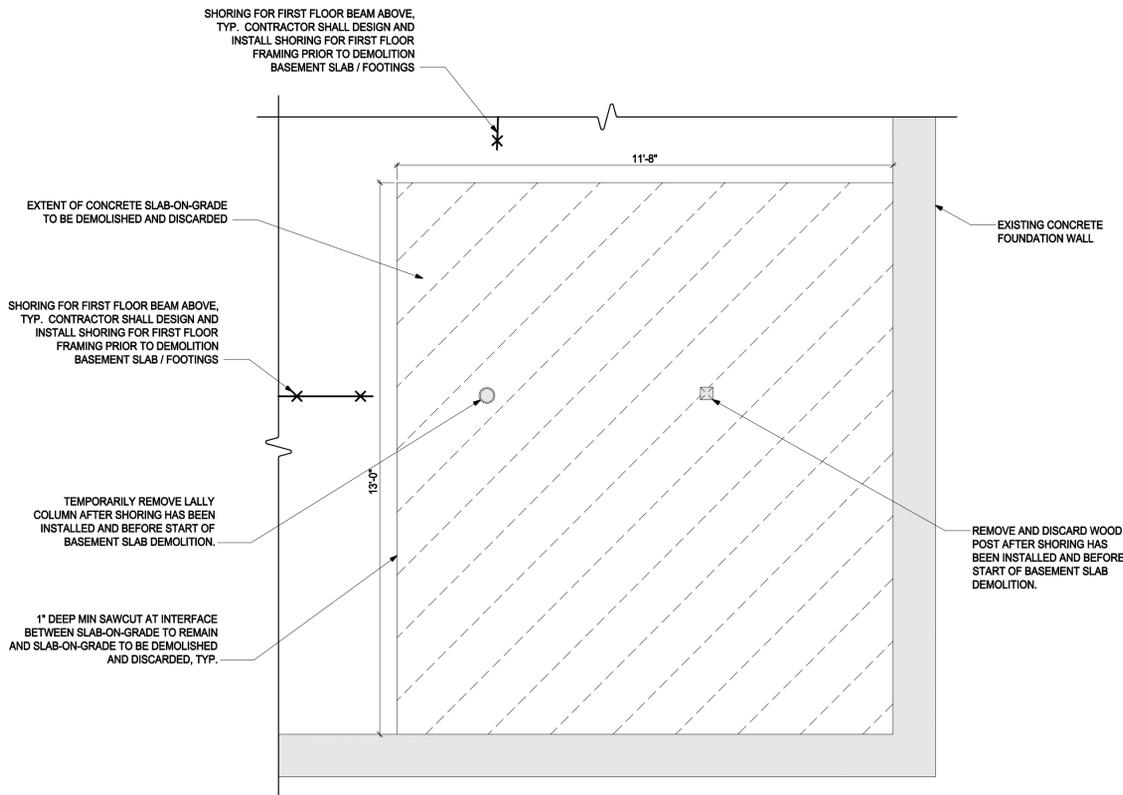
Revisions:

Submission:

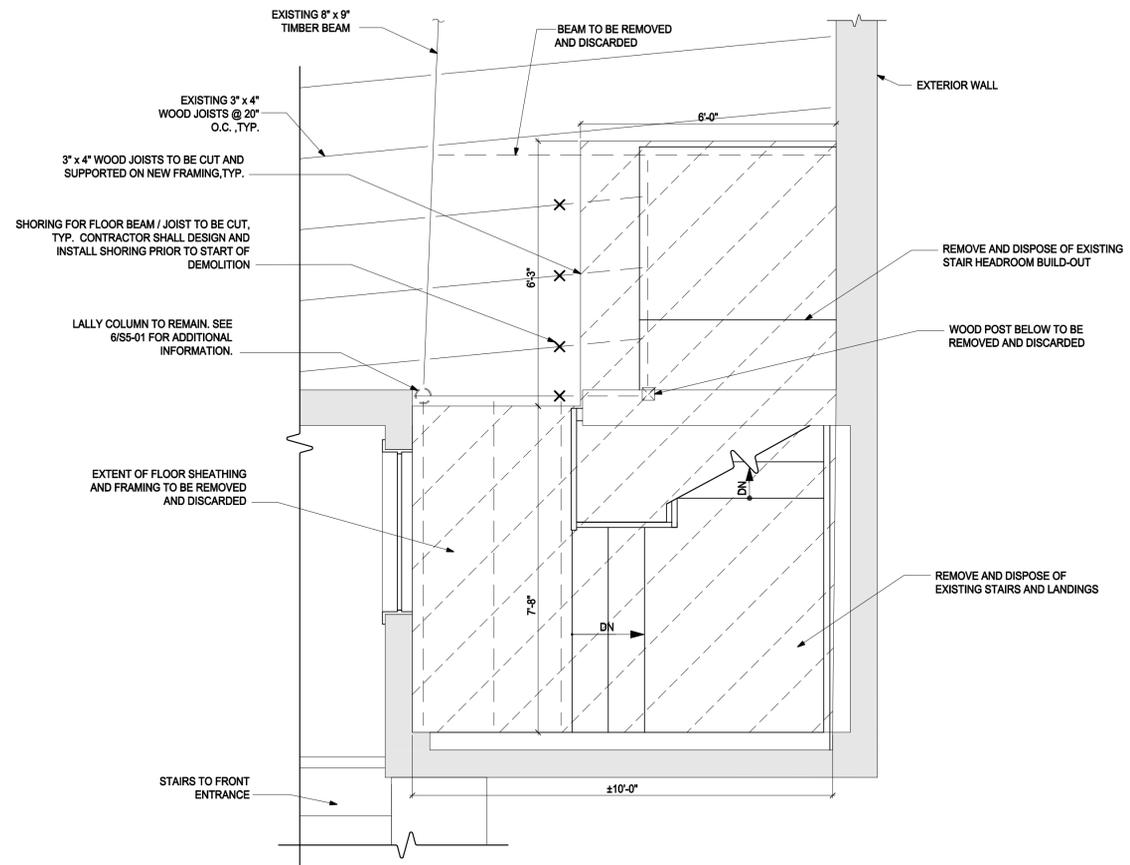
BIDDING  
DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: CRW/MMM  
Scale: 1/2"=1'-0"

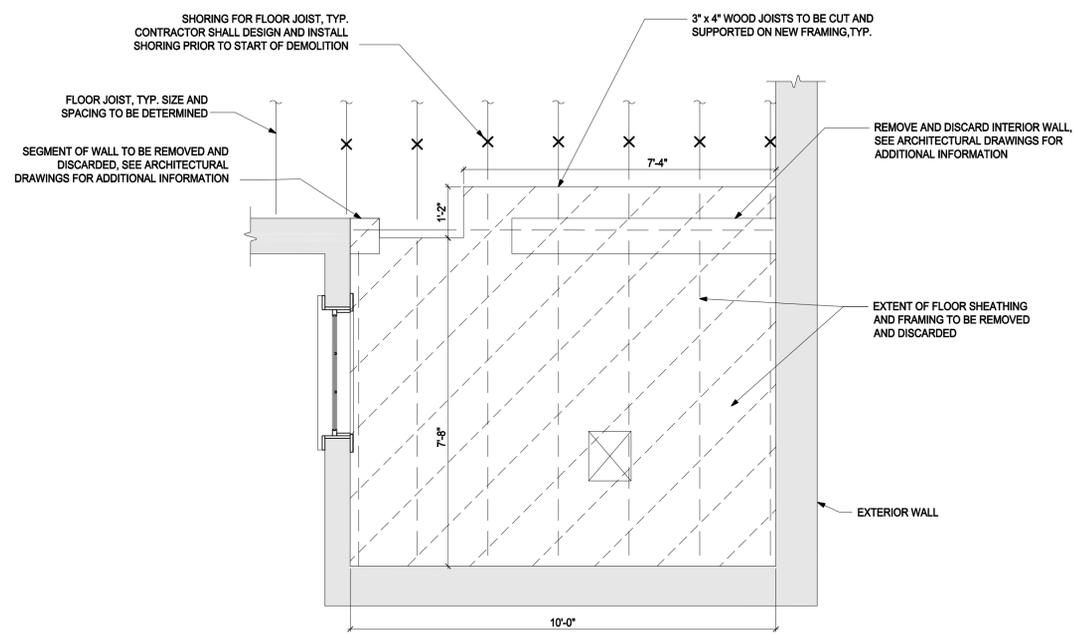
**SI-01**



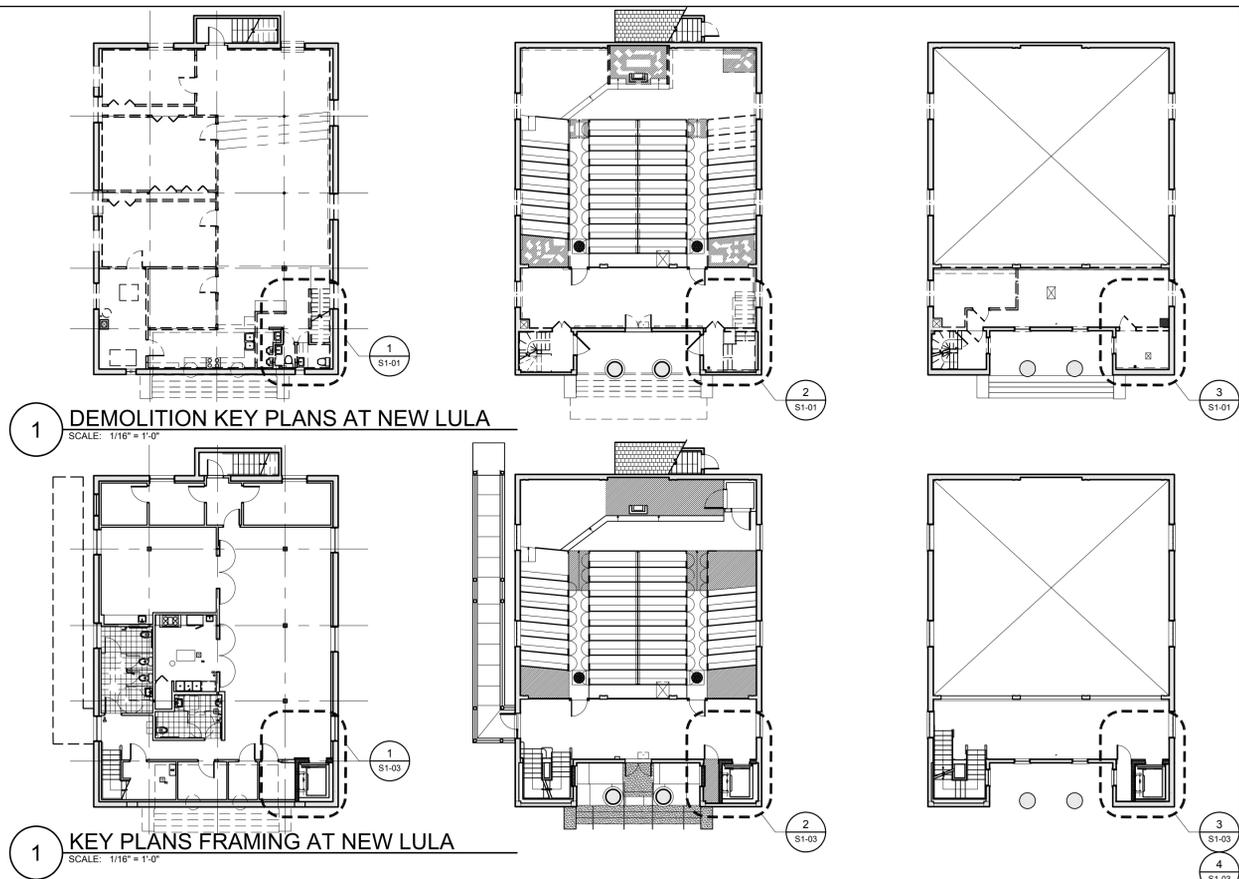
1 BASEMENT DEMOLITION PLAN FOR NEW LULA  
SCALE: 1/2"=1'-0"



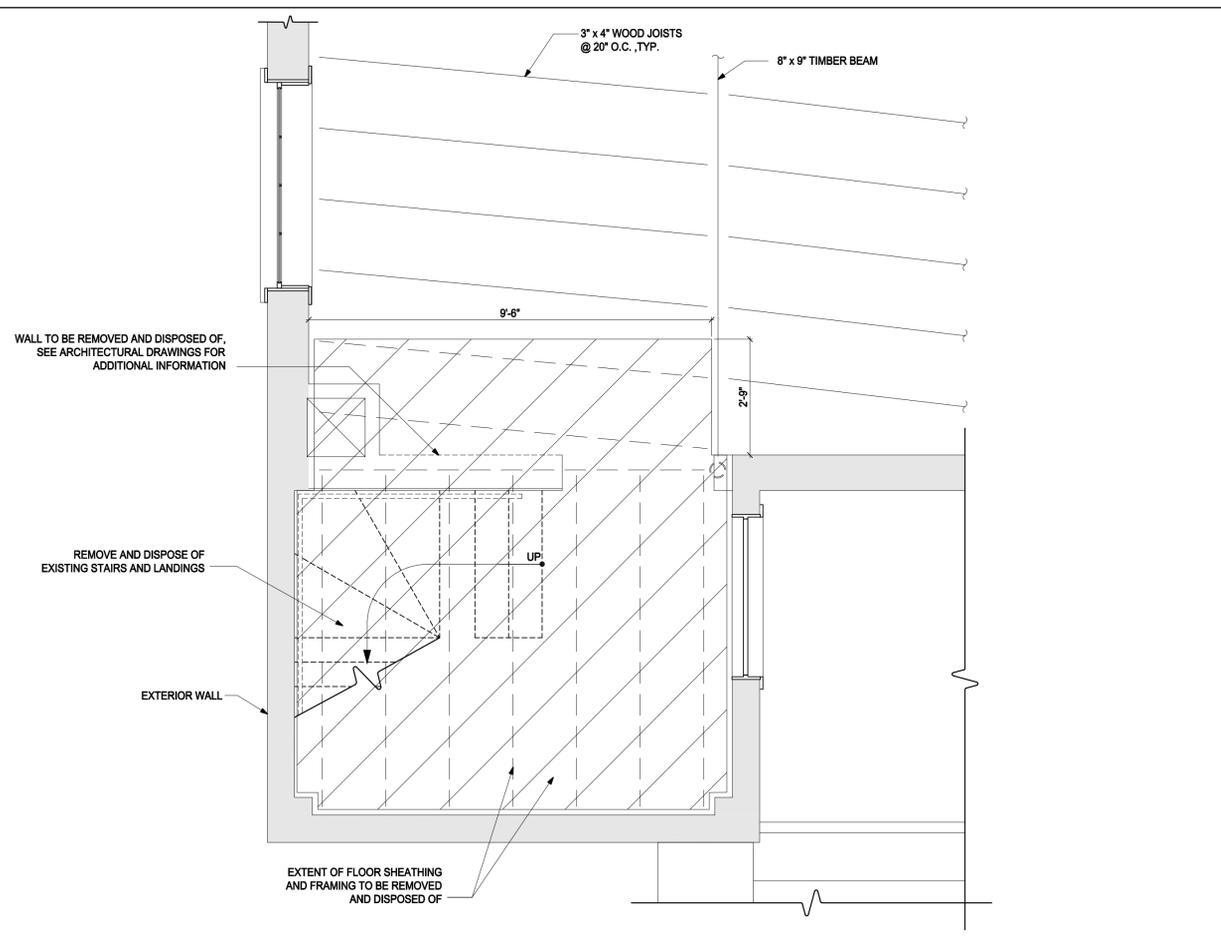
2 FIRST FLOOR DEMOLITION FOR NEW LULA  
SCALE: 1/2"=1'-0"



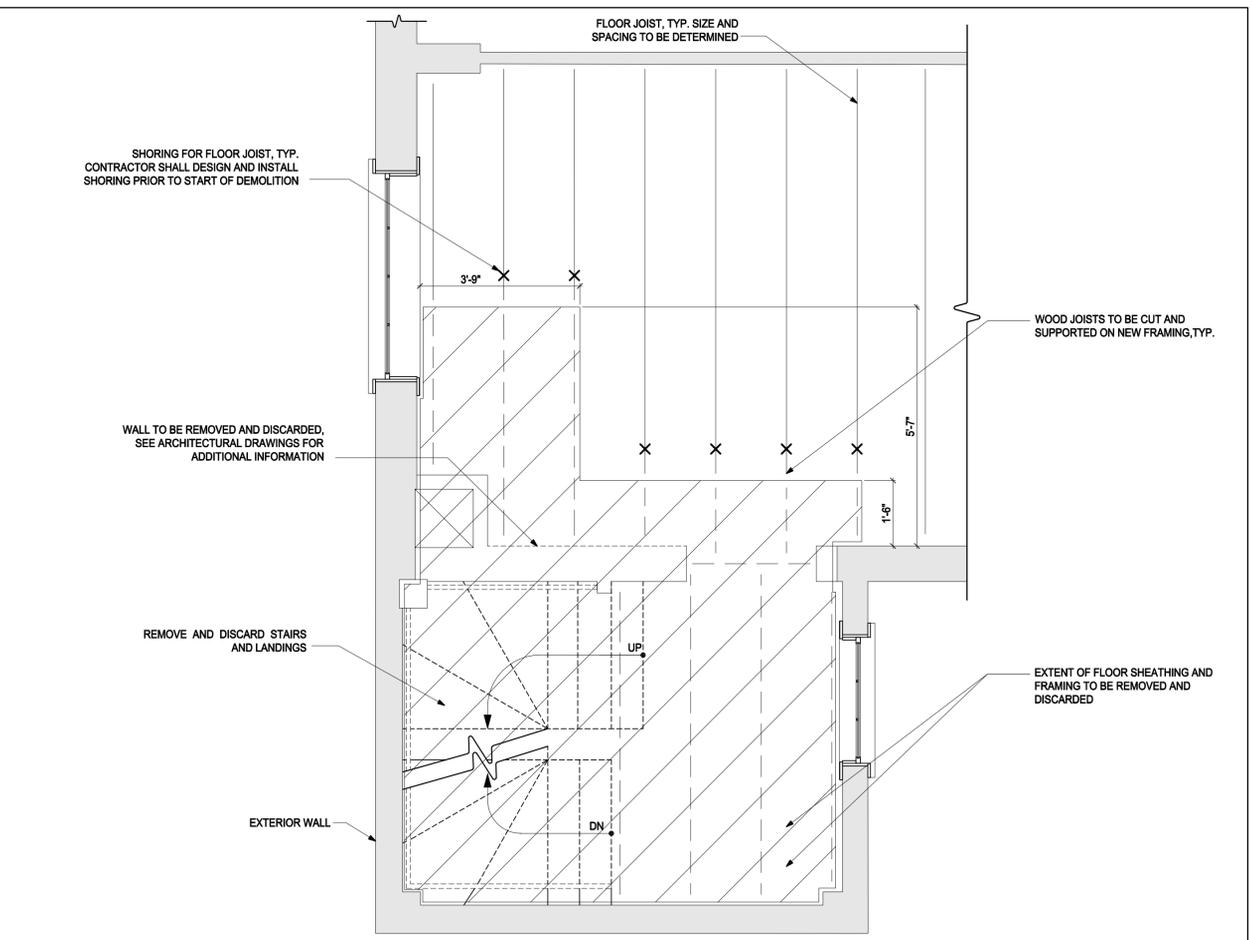
3 MEZZANINE FLOOR DEMOLITION FOR NEW LULA  
SCALE: 1/2"=1'-0"



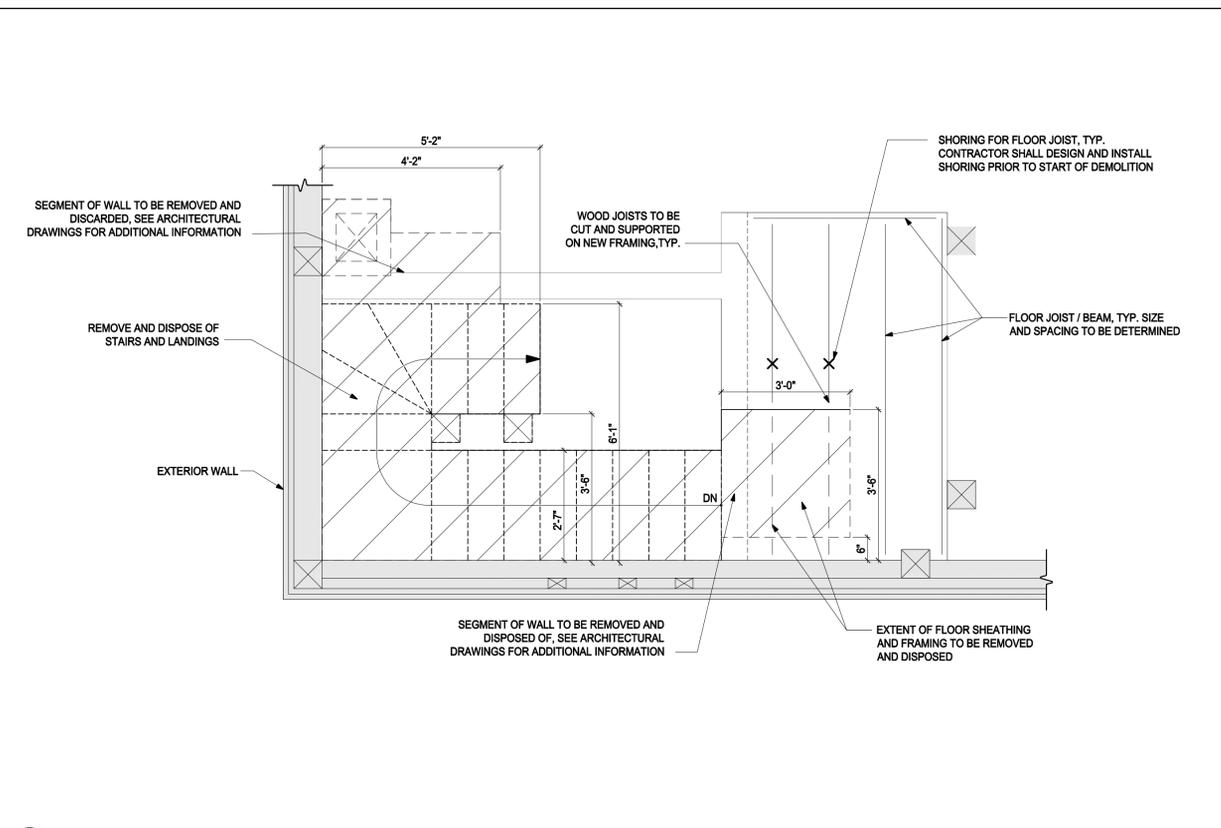
1 KEY PLANS FRAMING AT NEW LULA  
SCALE: 1/16"=1'-0"



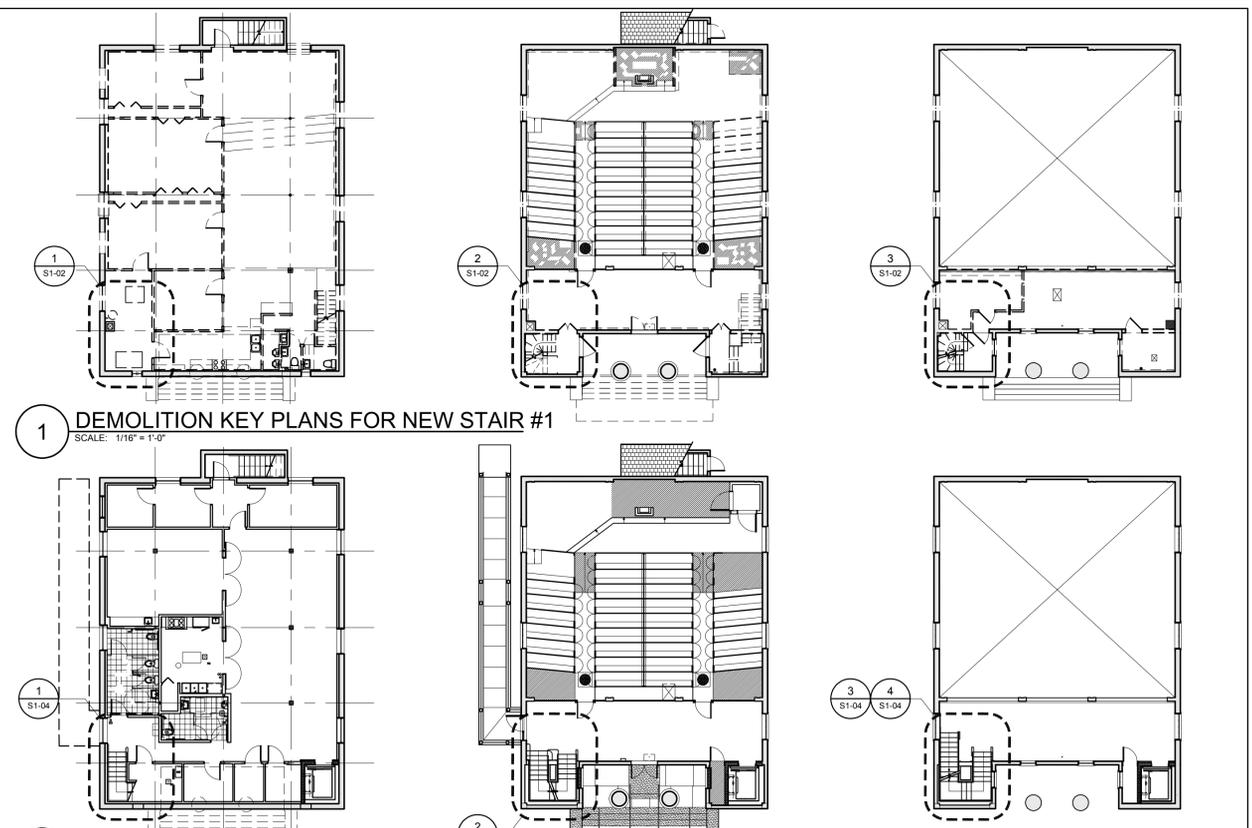
**1** FIRST FLOOR DEMOLITION FOR NEW STAIR  
SCALE: 1/2"=1'-0"



**2** MEZZANINE FLOOR DEMOLITION FOR NEW STAIR  
SCALE: 1/2"=1'-0"



**3** ATTIC DEMOLITION FOR NEW STAIR  
SCALE: 1/2"=1'-0"



**1** KEY PLANS FOR NEW STAIR #1  
SCALE: 1/16"=1'-0"

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FIRST PARISH  
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INTERIOR  
RENOVATION



TOWN OF  
TYNGSBOROUGH

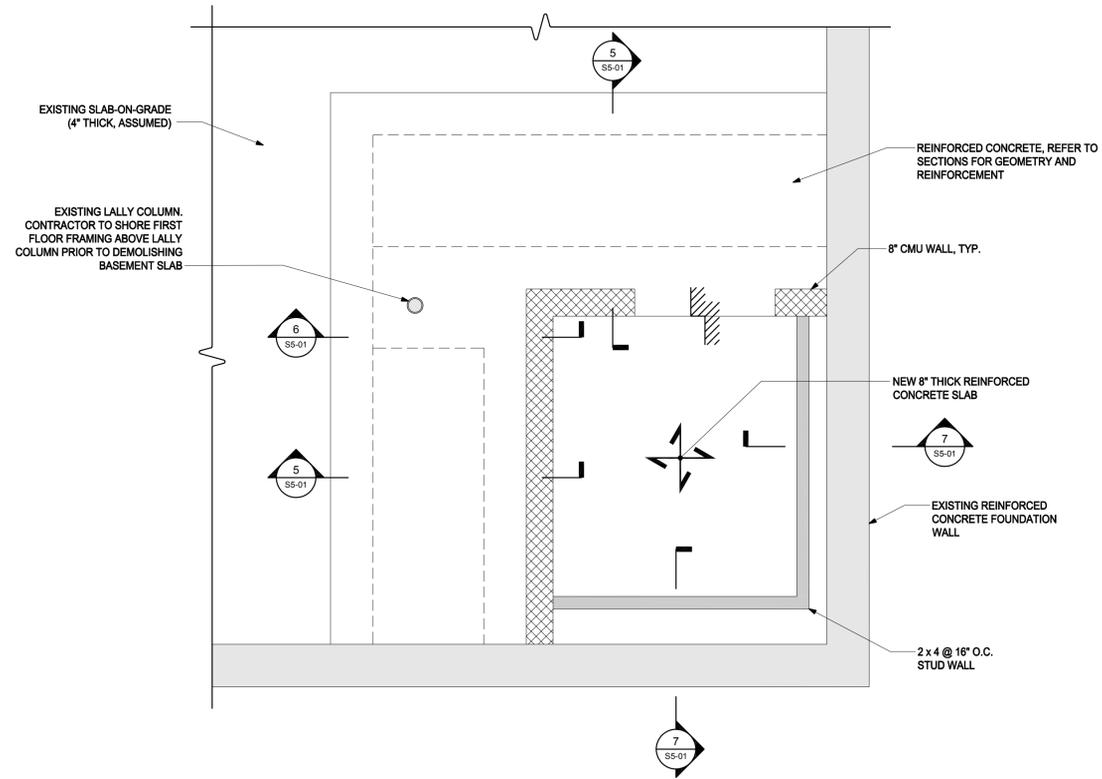
DEMOLITION  
FOR NEW STAIRS

Revisions:

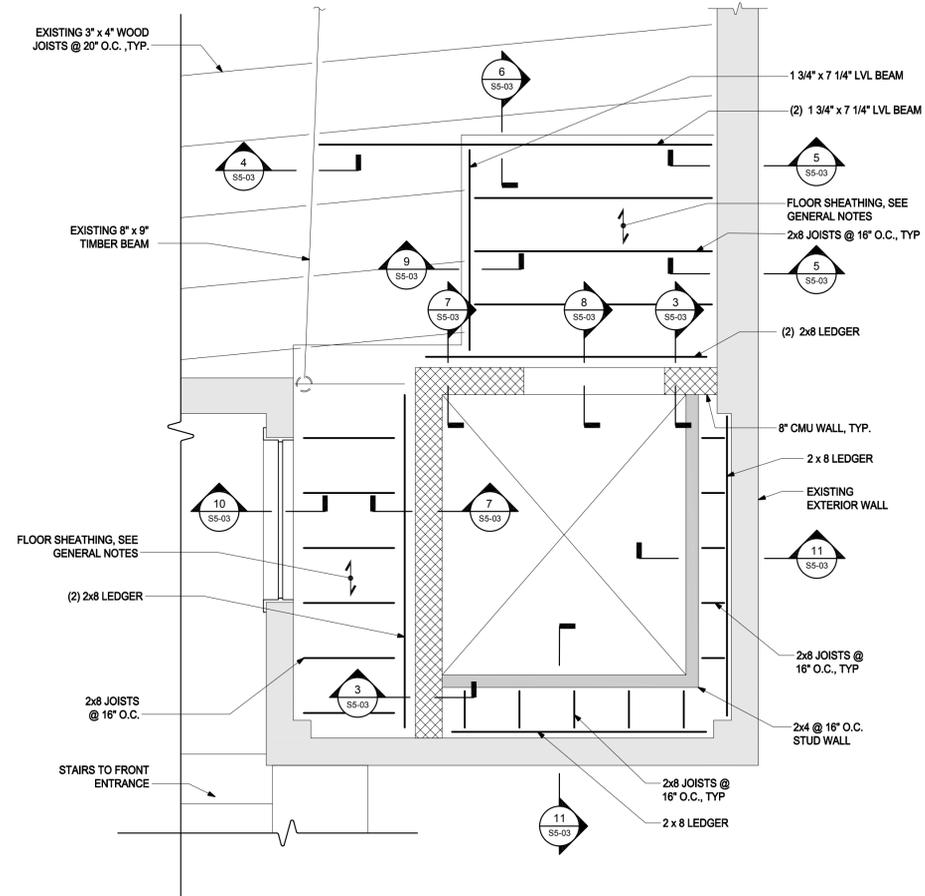
BIDDING  
DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: AMW  
Drawn By: CRW  
Scale: 1/2"=1'-0"

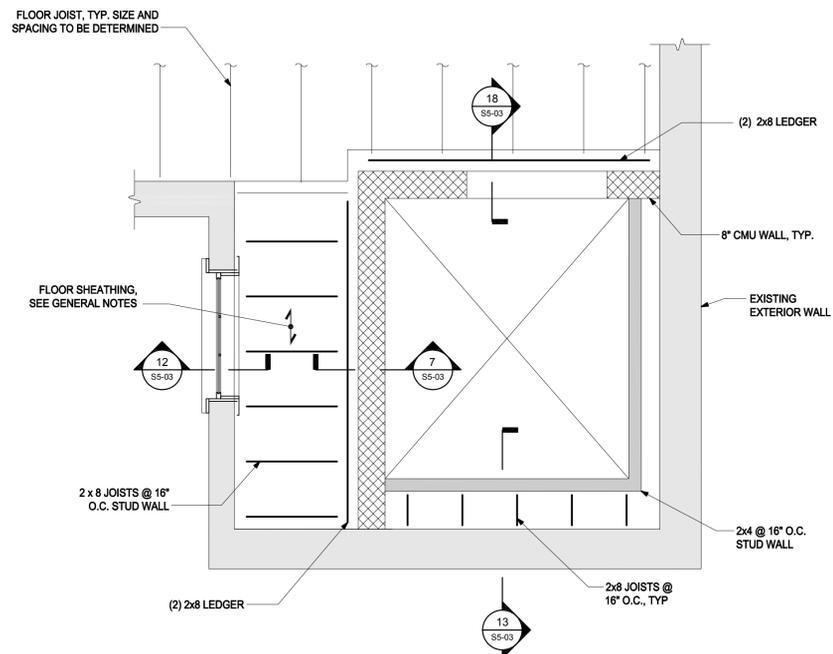
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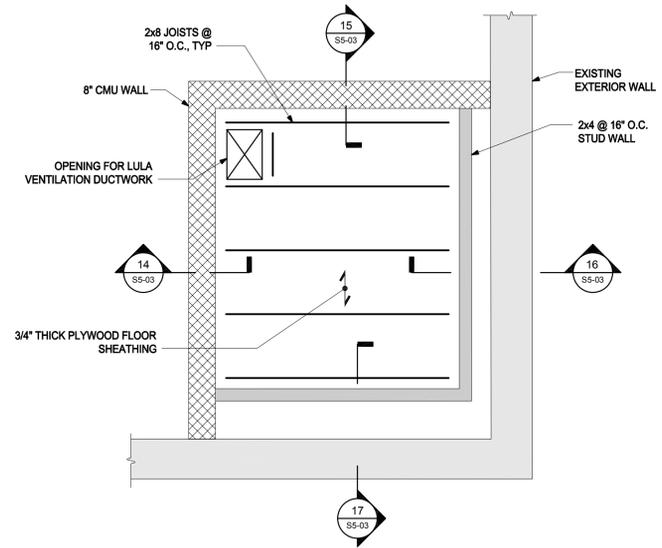
1 BASEMENT FRAMING AT LULA  
SCALE: 1/2"=1'-0"



2 FIRST FLOOR FRAMING AT LULA  
SCALE: 1/2"=1'-0"



3 MEZZANINE FLOOR FRAMING AT LULA  
SCALE: 1/2"=1'-0"



4 FRAMING AT LULA CEILING  
SCALE: 1/2"=1'-0"



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TOWN OF  
TYNGSBOROUGH

Drawing Title:

FRAMING AT  
LULA

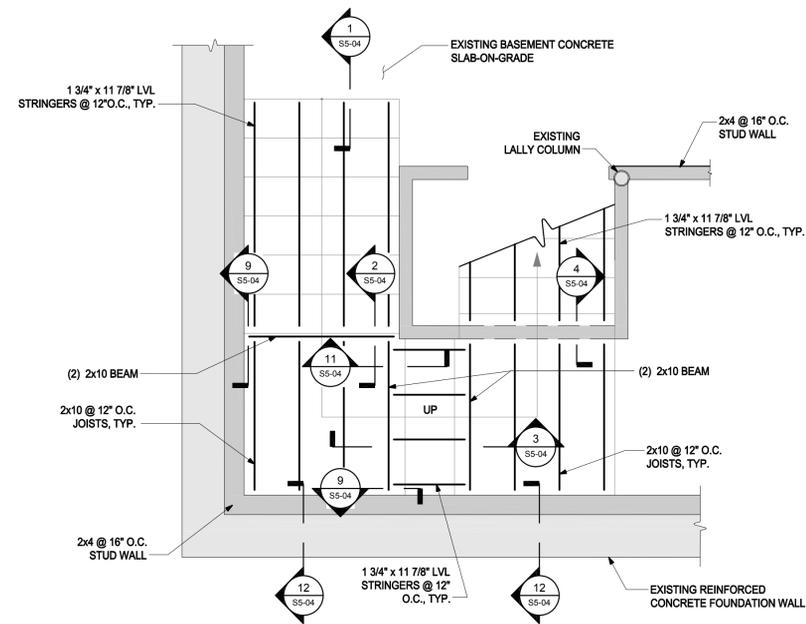
Revisions:

Submission:

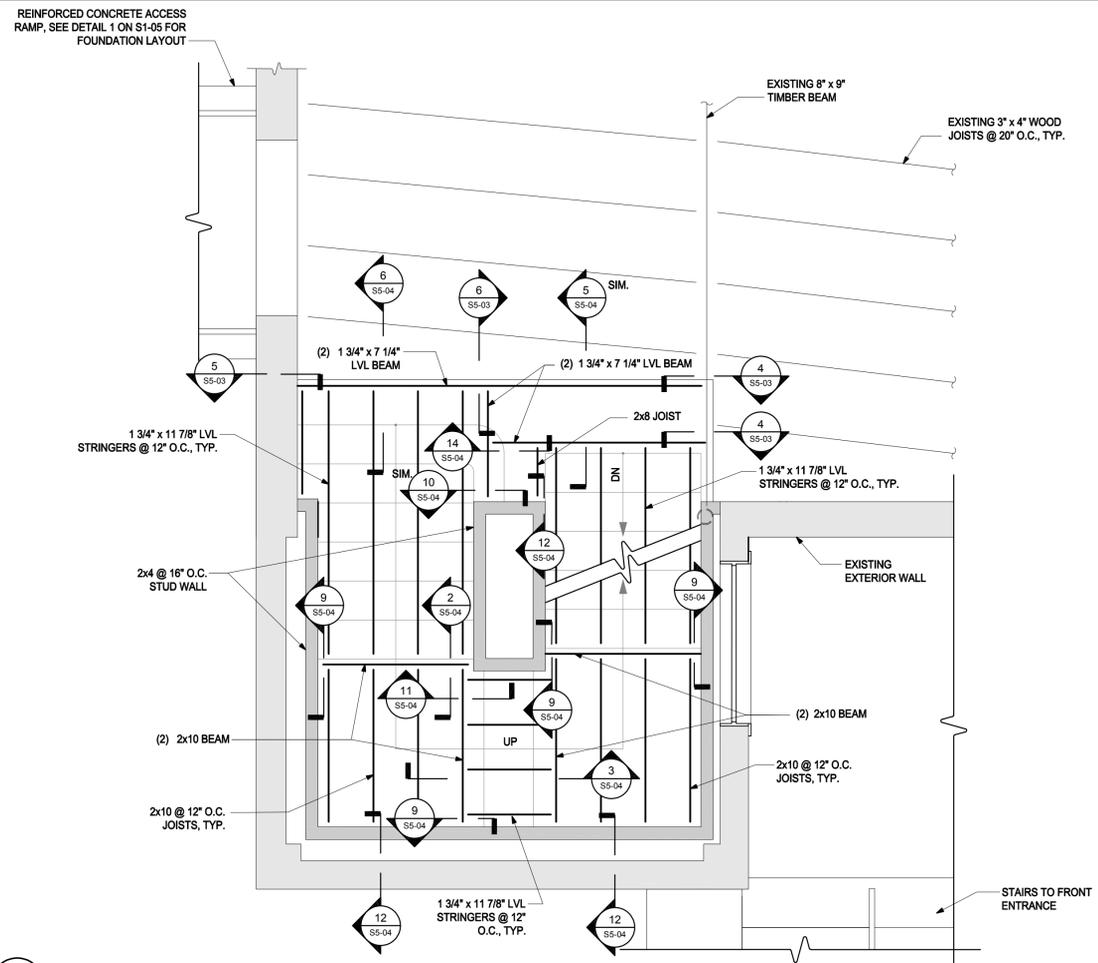
BIDDING  
DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: AMW  
Drawn By: CRW  
Scale: 1/2"=1'-0"

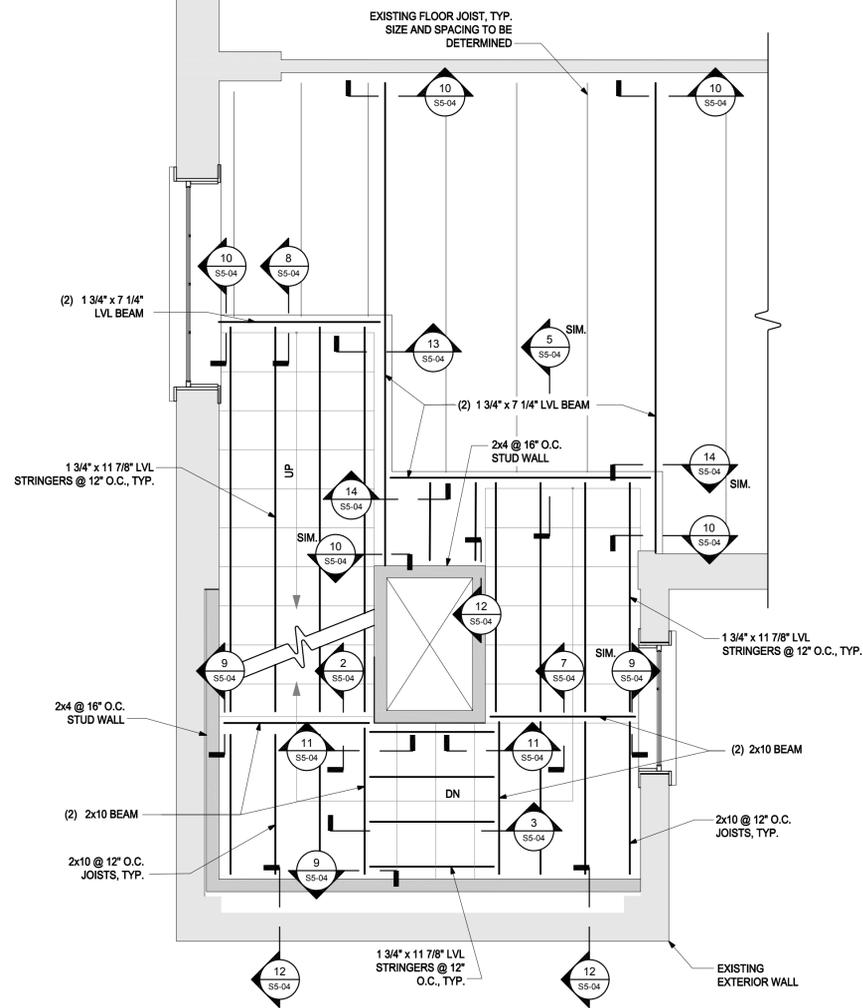
SI-03



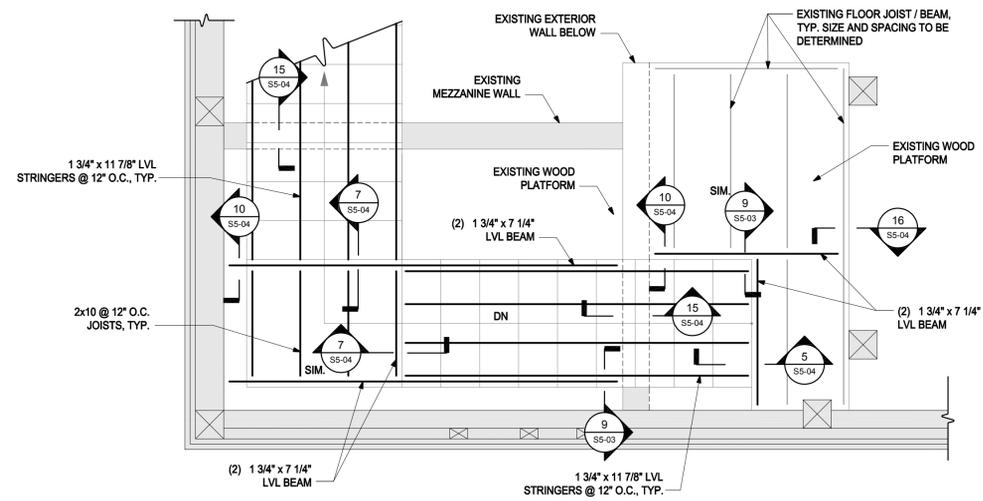
**1 NEW STAIR #1 FRAMING AT BASEMENT**  
SCALE: 1/2"=1'-0"



**2 NEW STAIR #1 FRAMING AT FIRST FLOOR**  
SCALE: 1/2"=1'-0"



**3 NEW STAIR #1 FRAMING AT MEZZANINE FLOOR**  
SCALE: 1/2"=1'-0"



**4 NEW STAIR #1 FRAMING IN ATTIC**  
SCALE: 1/2"=1'-0"

P:\2017\17009\AutoCAD\Sheets\Ater\_10.03.2018 (RD as PM)\17009 SI-04 to SI-05 Structural Framing Plans.dwg Oct 31, 2018 - 4:11 pm FPA/SA



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**FIRST PARISH  
MEETING HOUSE  
INTERIOR  
RENOVATION**



**TOWN OF  
TYNGSBOROUGH**

Drawing Title:

**FRAMING FOR  
NEW STAIRS**

Revisions:

**BIDDING  
DOCUMENTS**

Date: 10/31/2018  
Project Number: 17009  
Project Manager: AMW  
Drawn By: CRW  
Scale: 1/2"=1'-0"

**SI-04**



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TOWN OF  
 TYNGSBOROUGH

Drawing Title:

FOUNDATION FOR  
 ACCESS RAMP &  
 FRONT STAIRS

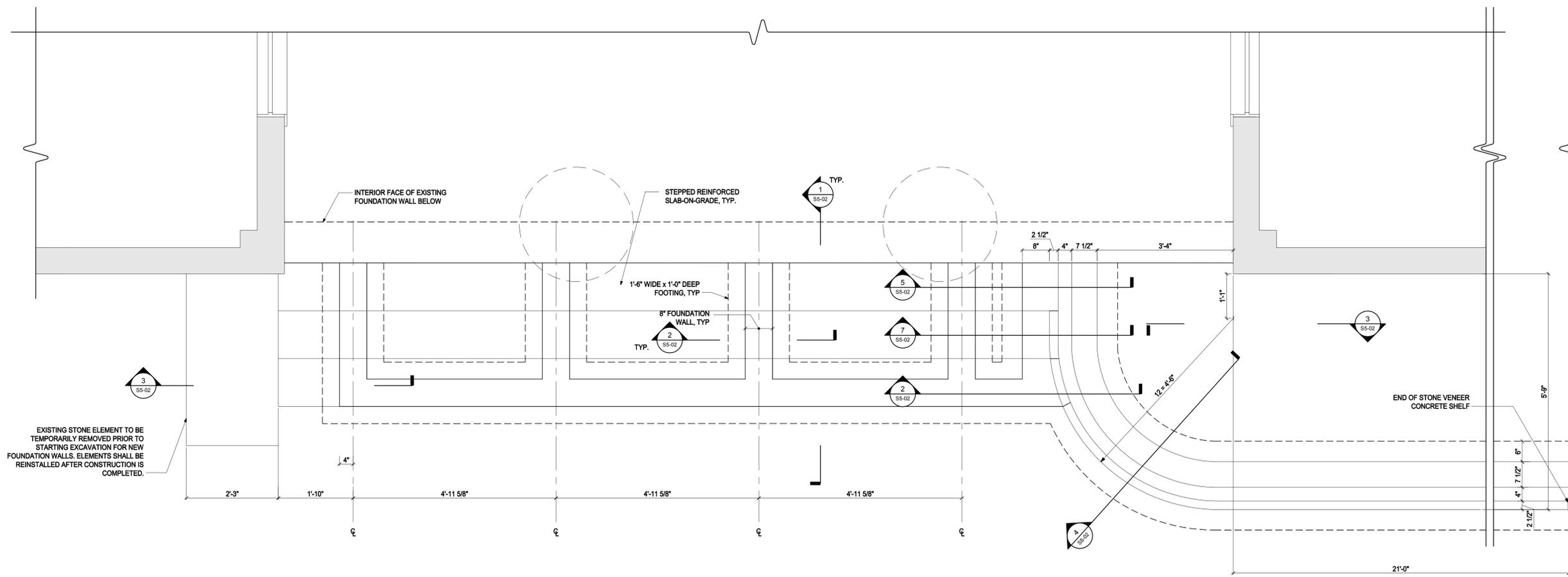
Revisions:

Submission:

BIDDING  
 DOCUMENTS

Date: 10/31/2018  
 Project Number: 17009  
 Project Manager: RD  
 Drawn By: CRW  
 Scale: AS NOTED

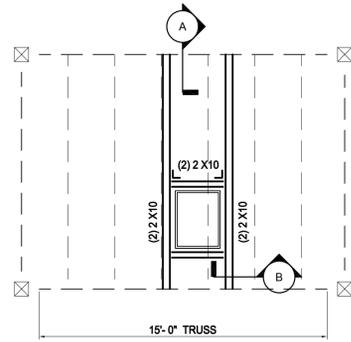
SI-05



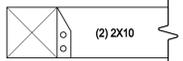
2 FRONT STAIRS FOUNDATION LAYOUT  
 SCALE: 3/4"=1'-0"

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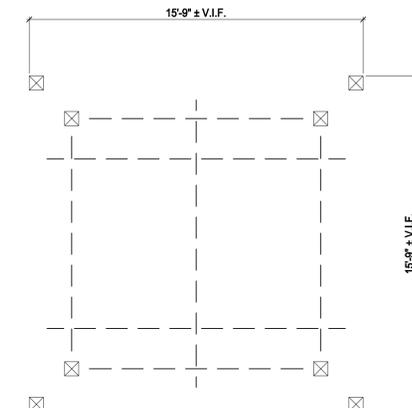
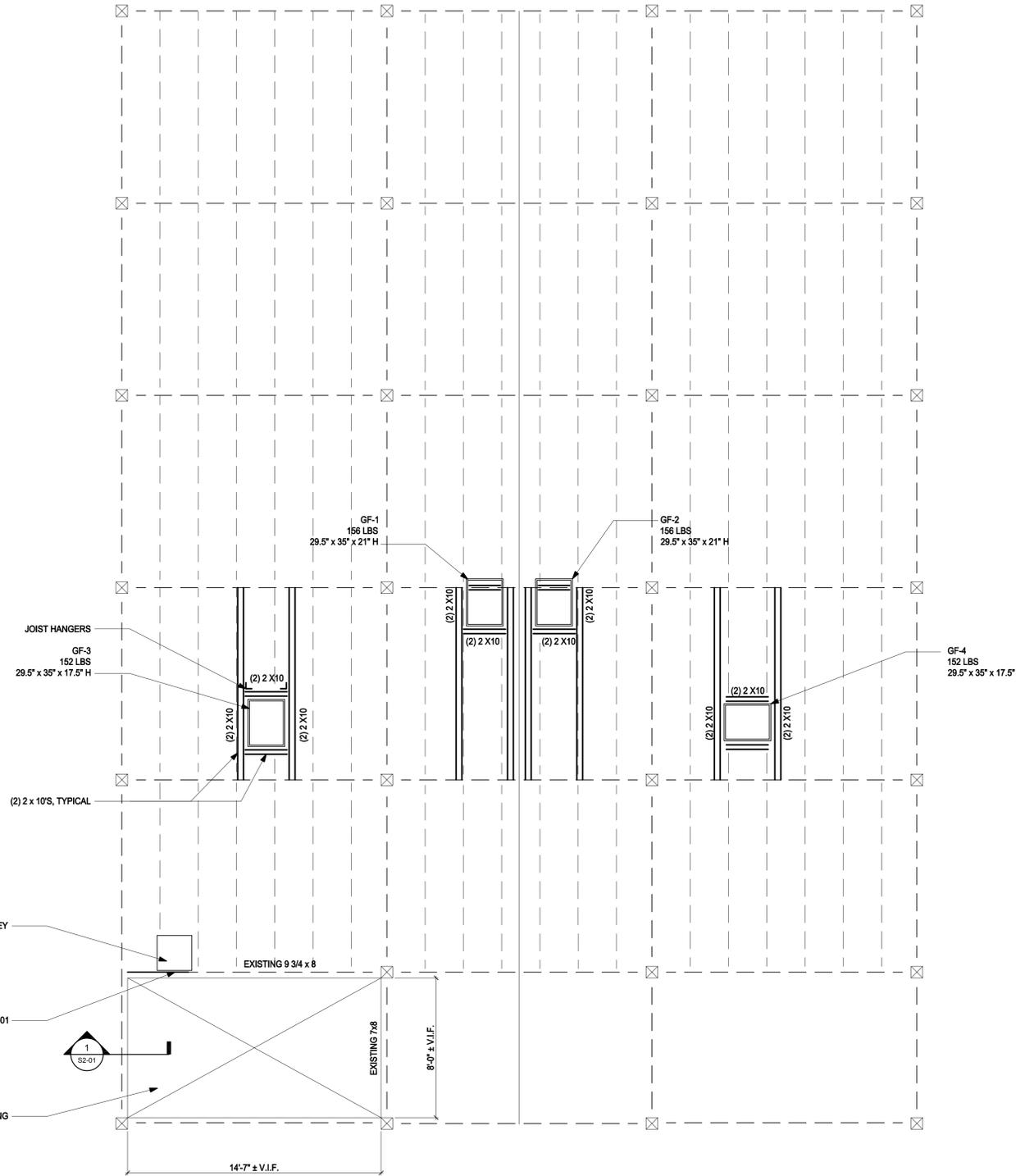
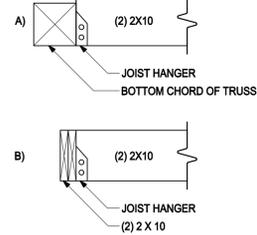
LEGEND	
---	EXISTING JOIST
---	EXISTING BEAM
---	EXISTING TRUSS
---	NEW BEAM/TRUSS



150 (PSF) X 2 = 100 LB/FT  
 100 X 11 7/8 X 12/1000 = 18.15 (K-IN)



2ND FLOOR DETAIL



NOTE:  
 1. WHERE NEW FRAMING IS SHOWN, DEMOLISH EXISTING FRAMING AND REPLACE W/ ROUGH CUT TIMBER IN THE SIZE SHOWN.  
 2. P-1 INDICATES NEW 8x8x13'-10\"/>

1 ATTIC FLOOR FRAMING PLAN  
 SCALE: 1/4" = 1'-0"

2 CUPOLA LOWER ROOF FRAMING PLAN  
 SCALE: 1/4" = 1'-0"

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TOWN OF  
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Drawing Title:  
**ATTIC FLOOR AND  
 CUPOLA LOWER  
 ROOF FRAMING  
 PLAN**

Revisions:

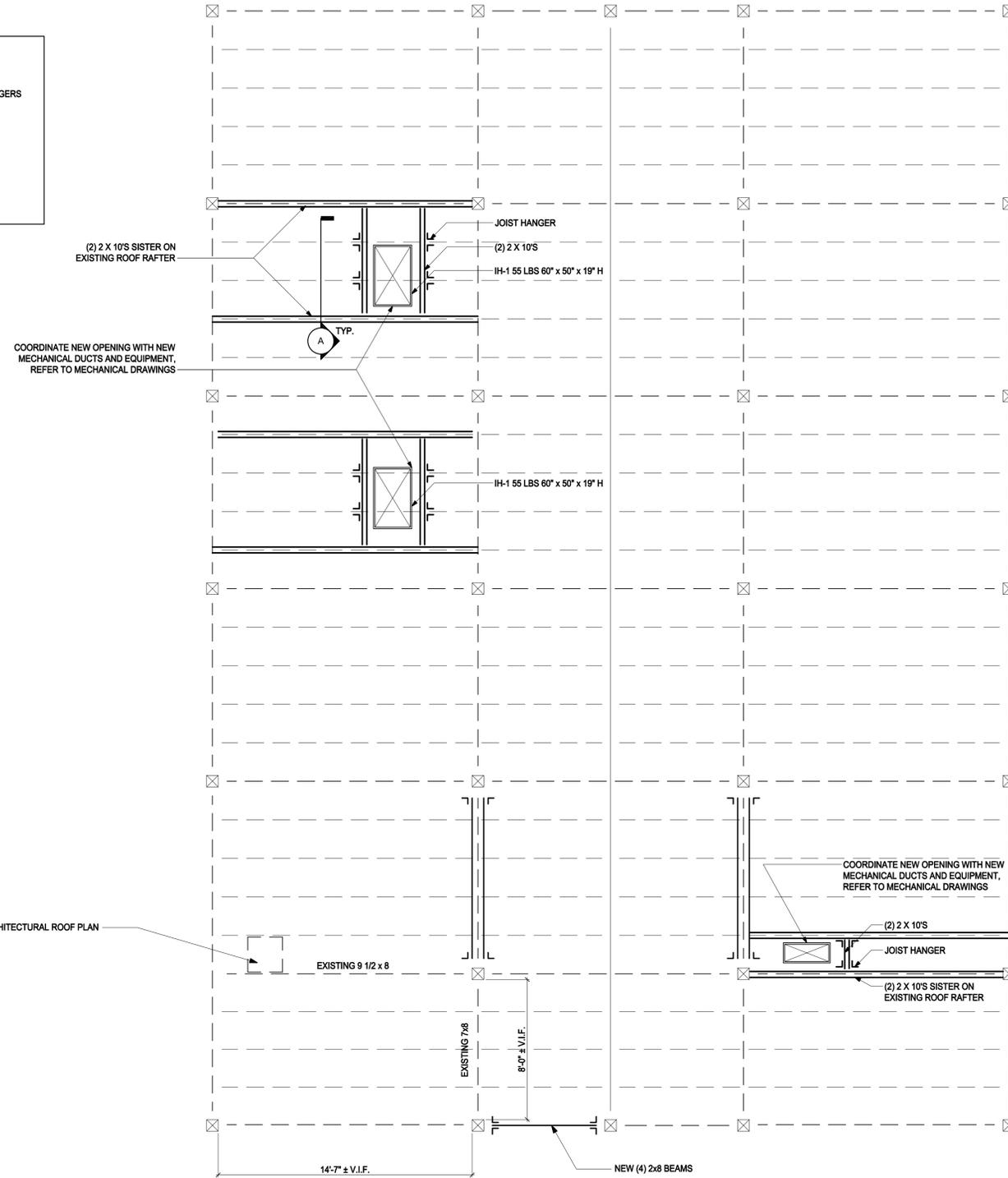
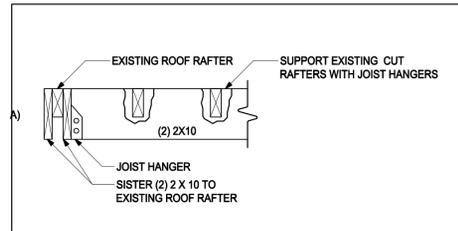
Submission:  
**BIDDING  
 DOCUMENTS**

Date: 10/31/2018  
 Project Number: 17009  
 Project Manager: AMW  
 Drawn By: CRW  
 Scale: AS NOTED

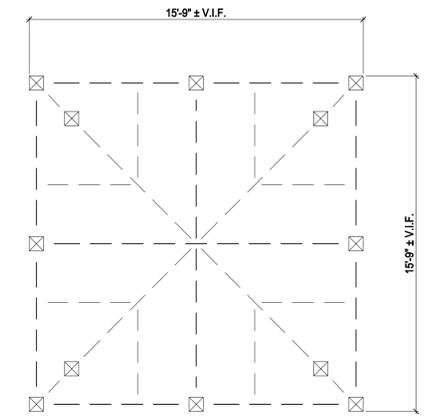
**SI-06**

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LEGEND	
---	EXISTING JOIST
---	EXISTING BEAM
---	EXISTING TRUSS
---	NEW BEAM/TRUSS



- NOTE:
- WHERE NEW FRAMING IS SHOWN, DEMOLISH EXISTING FRAMING AND REPLACE W/ ROUGH CUT TIMBER IN THE SIZE SHOWN.
  - P-1 INDICATES NEW 8x8x13'-10" ROUGH CUT TIMBER POST
  - B-1 INDICATES NEW 9 3/4 x 8 ROUGH CUT TIMBER BEAM



1 ROOF FRAMING PLAN  
SCALE: 1/4" = 1'-0"

2 CUPOLA ROOF FRAMING PLAN  
SCALE: 1/4" = 1'-0"



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TOWN OF  
TYNGSBOROUGH

Drawing Title:

ROOF  
AND CUPOLA ROOF  
FRAMING PLAN

Revisions:

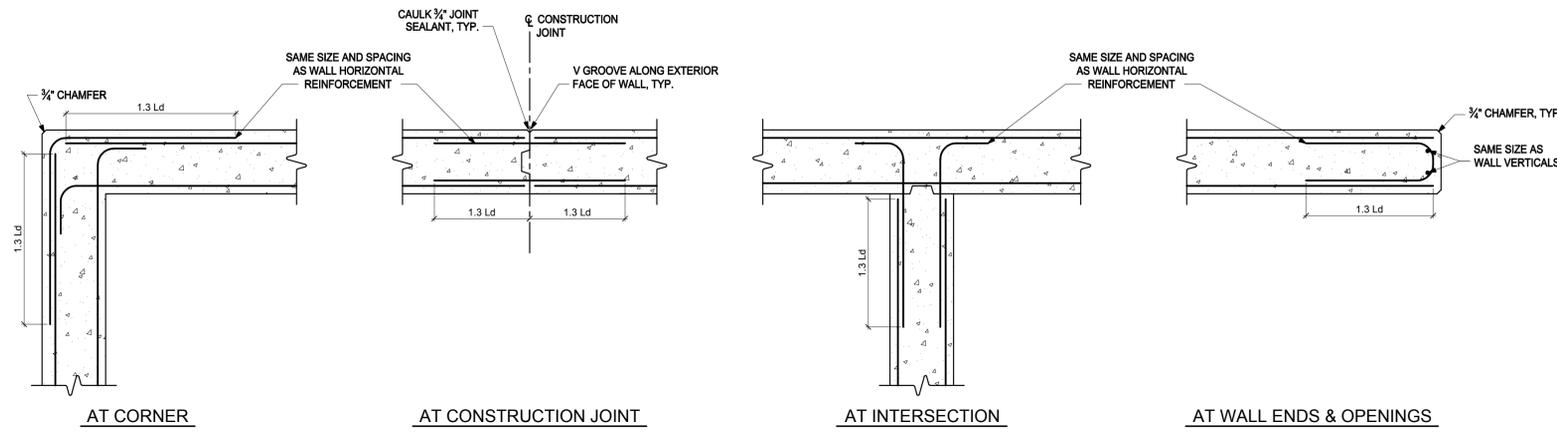
Submission:

BIDDING  
DOCUMENTS

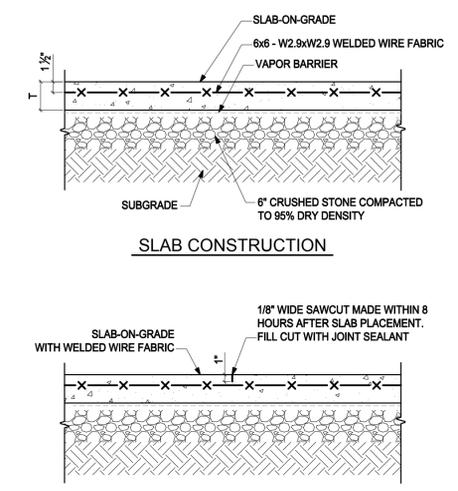
Date: 10/31/2018  
Project Number: 17009  
Project Manager: AMW  
Drawn By: CRW  
Scale: AS NOTED

SI-07

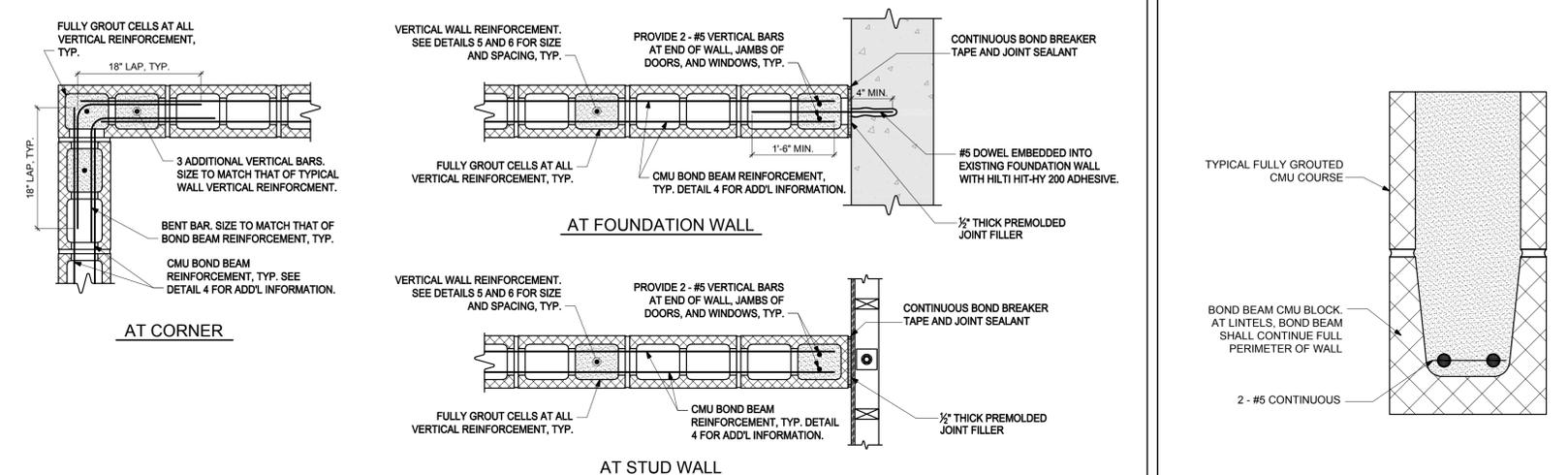
P:\2017\17009\AutoCAD\SHETS\Ater\_10.03.2018 (RD as PM)\17009 SI-01 to SI-05 Structural Part Plans.dwg Oct 31, 2018 - 4:11 pm FPA/SA



**1** TYP. FOUNDATION WALL REINFORCEMENT DETAILS  
SCALE: N.T.S.

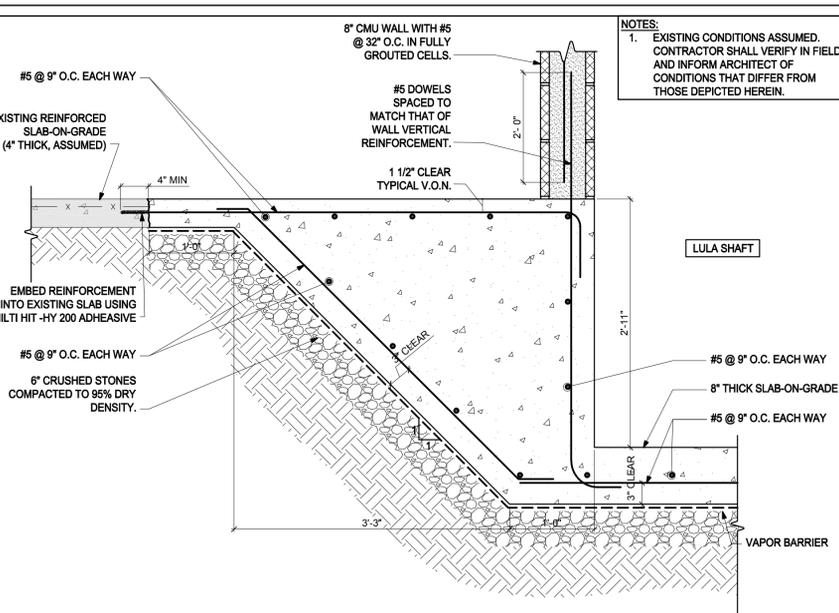


**2** TYP. SLAB ON GRADE DETAILS  
SCALE: N.T.S.

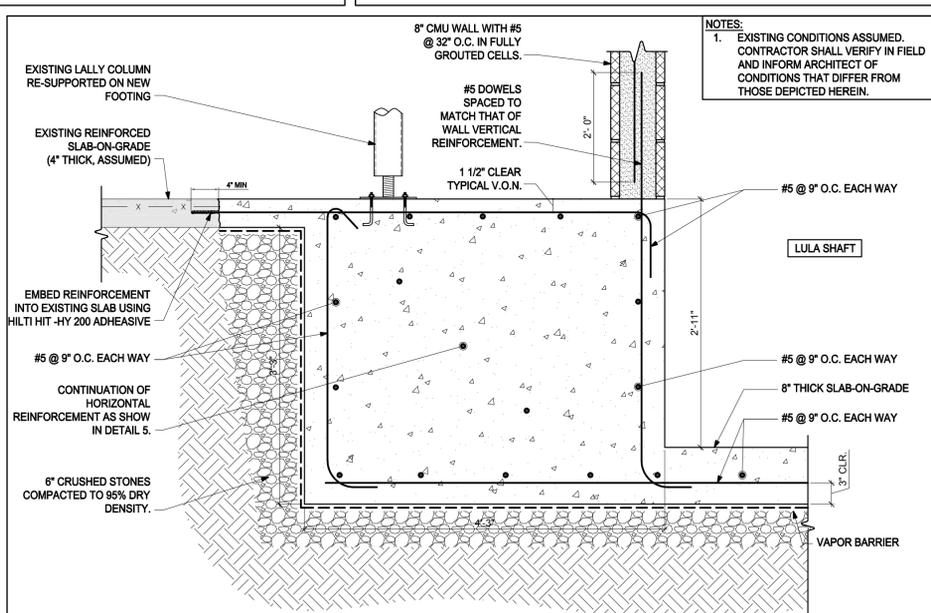


**3** TYP. CMU WALL REINFORCEMENT DETAILS  
SCALE: N.T.S.

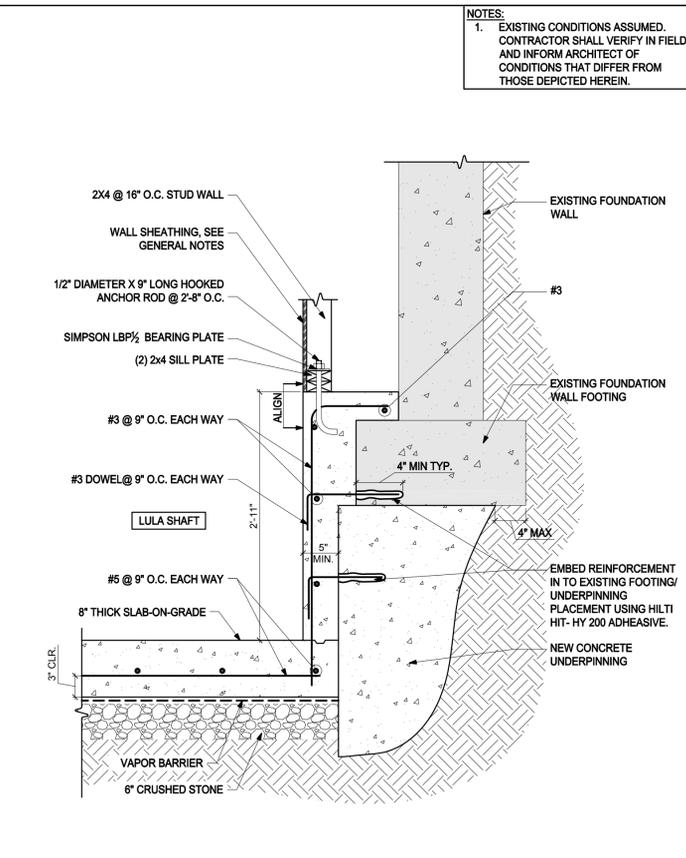
**4** TYP. CMU BOND BEAM DETAIL  
SCALE: 3" = 1'-0"



**5** TYP. STEP IN SLAB-ON-GRADE AT LULA PIT DETAIL  
SCALE: 1" = 1'-0"



**6** SECTION AT LALLY COLUMN NEAR LULA PIT DETAIL  
SCALE: 1" = 1'-0"



**7** TYP. SECTION AT LULA PIT AND EXISTING FOUNDATION WALL DETAIL  
SCALE: 1" = 1'-0"

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FIRST PARISH  
MEETING HOUSE  
INTERIOR  
RENOVATION



TOWN OF  
TYNGSBOROUGH

Drawing Title:

FOUNDATION &  
MASONRY DETAILS

Revisions:

Submission:

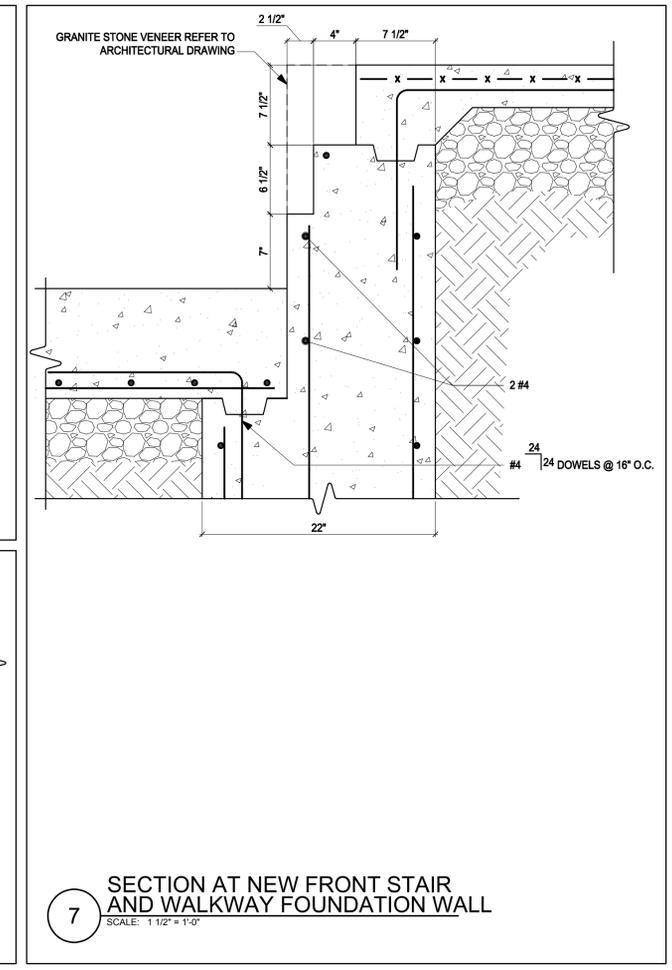
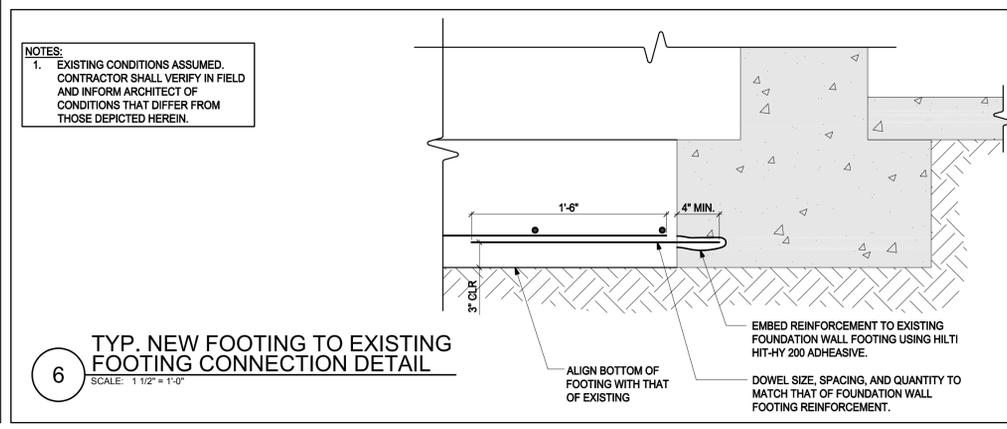
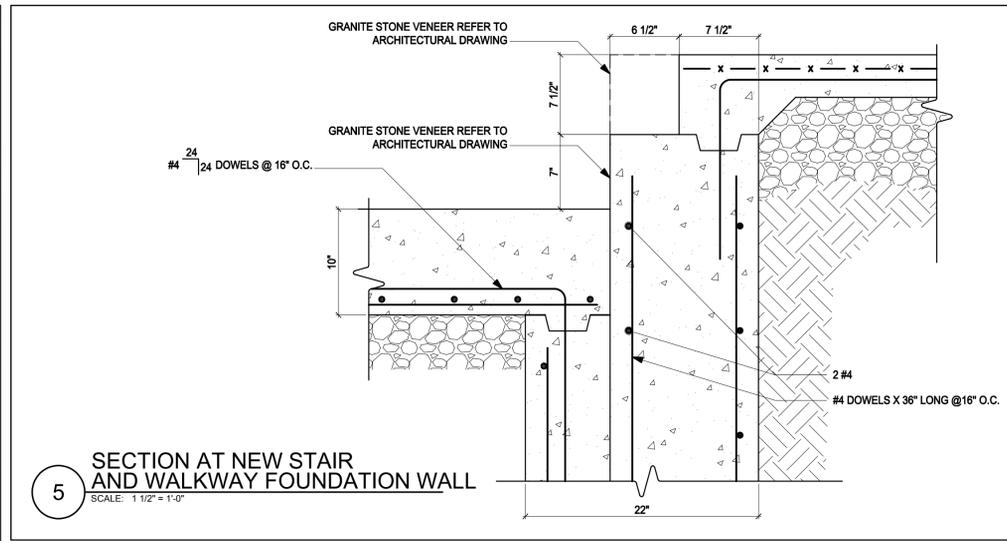
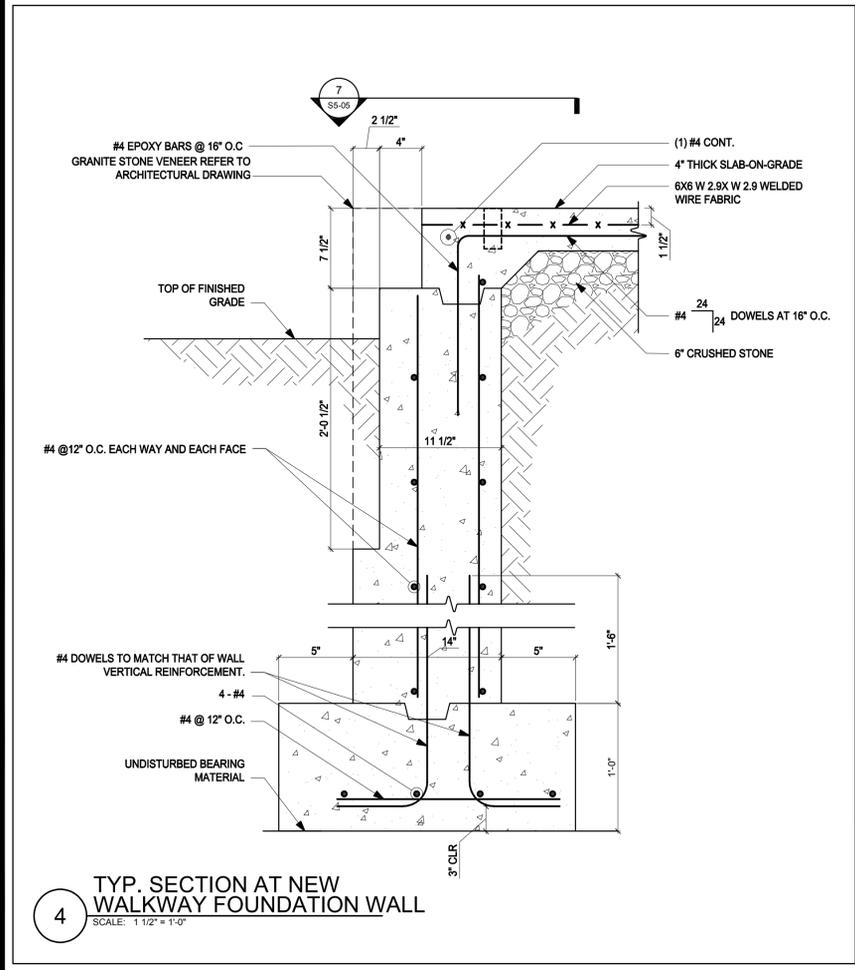
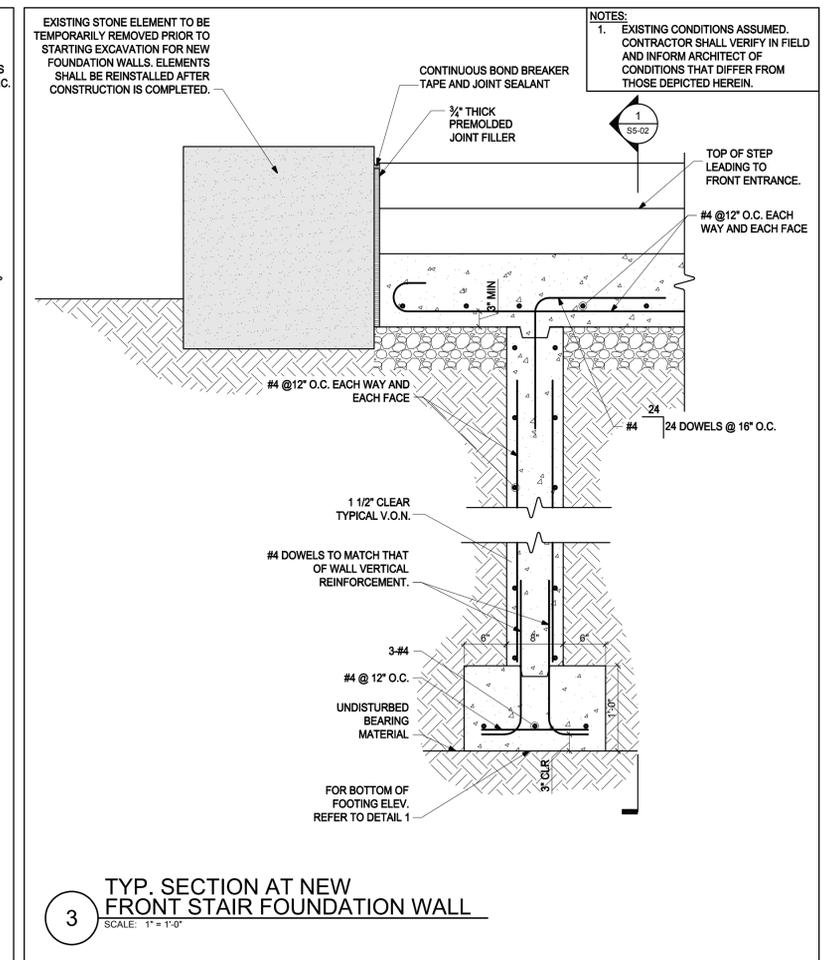
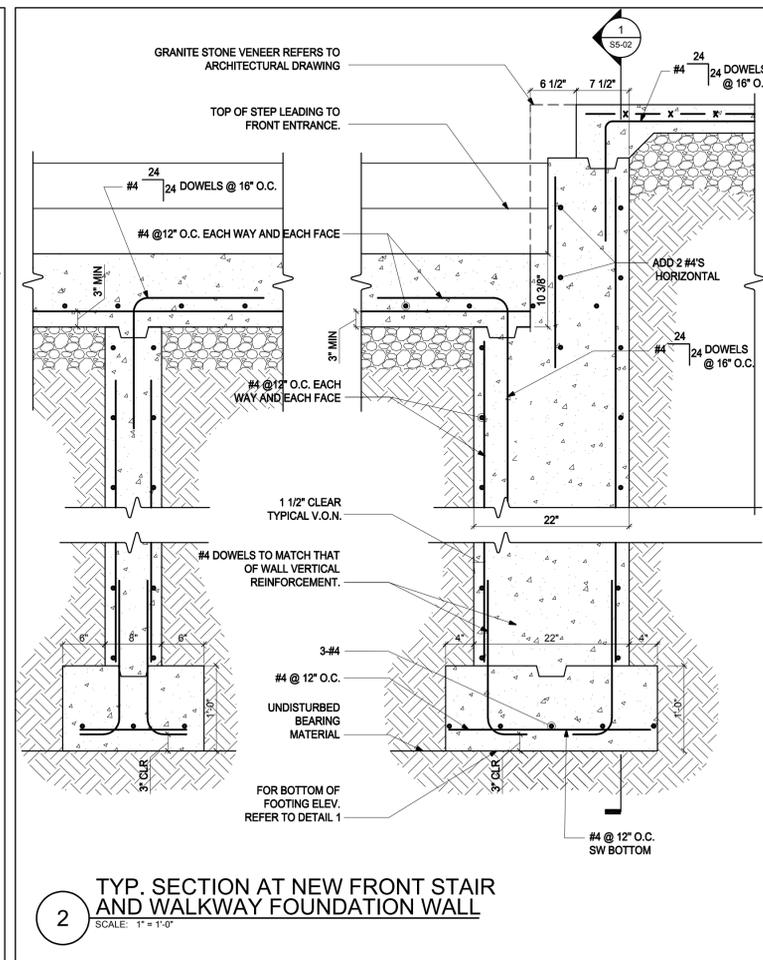
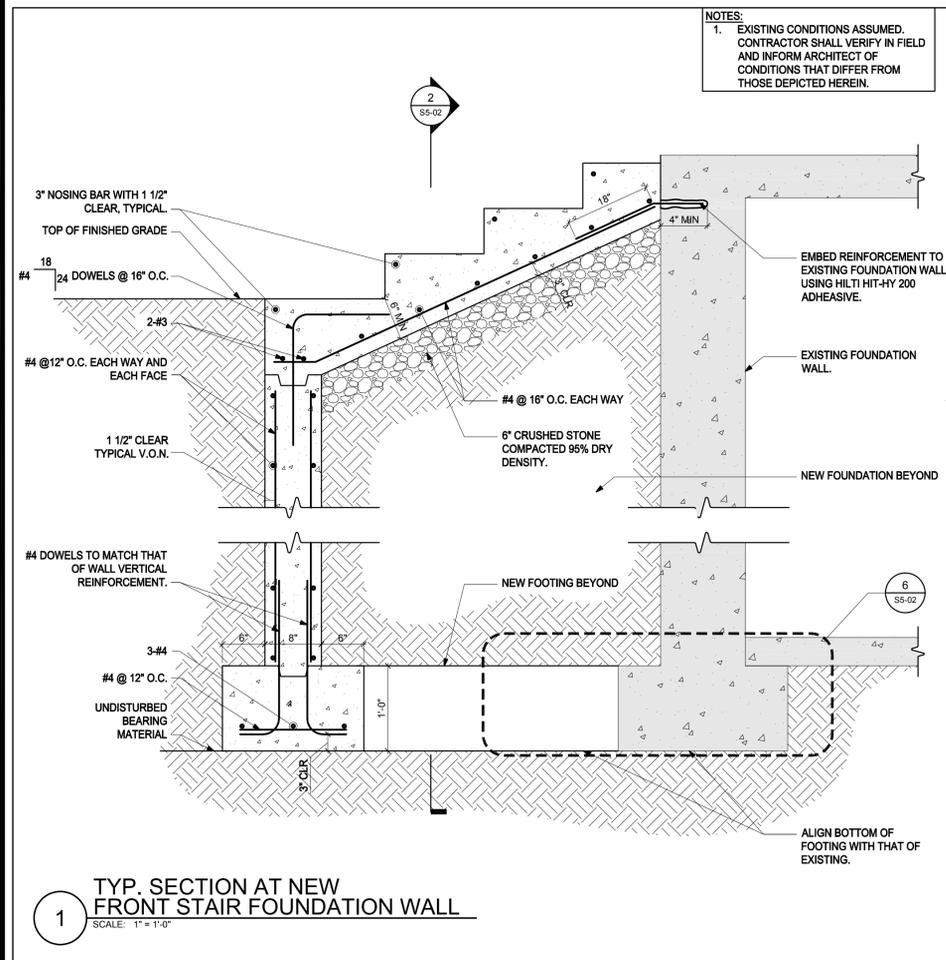
BIDDING  
DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: AMW  
Drawn By: CRW  
Scale: AS NOTED

S5-01

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FIRST PARISH  
MEETING HOUSE  
INTERIOR  
RENOVATION



TOWN OF  
TYNGSBOROUGH

Drawing Title:  
**FOUNDATION  
DETAILS**

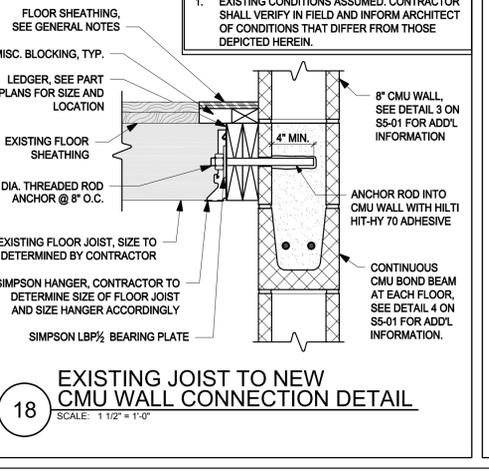
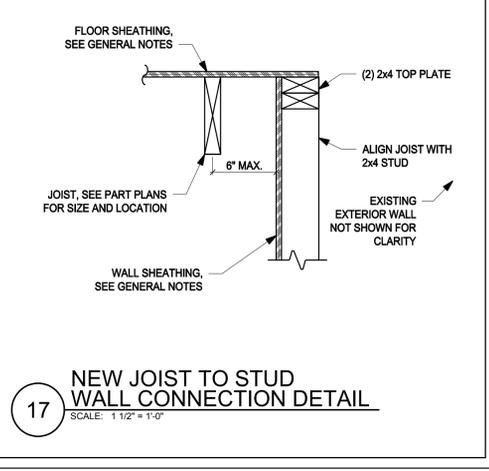
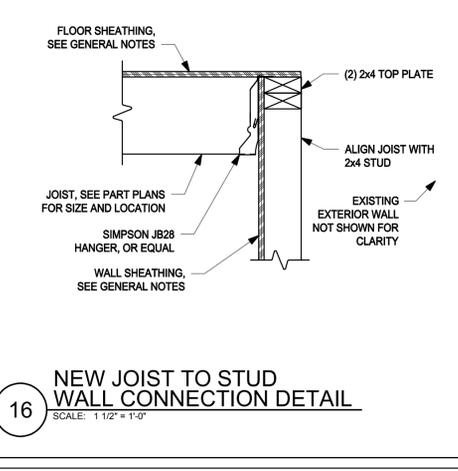
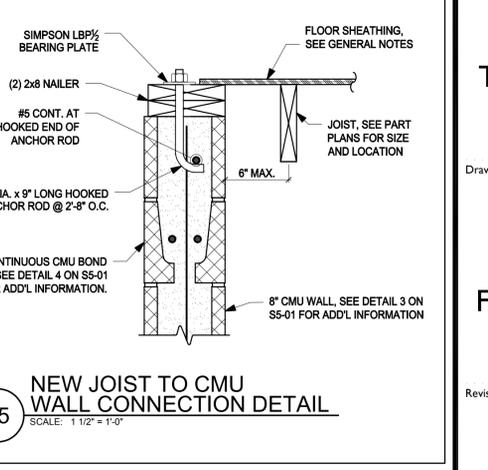
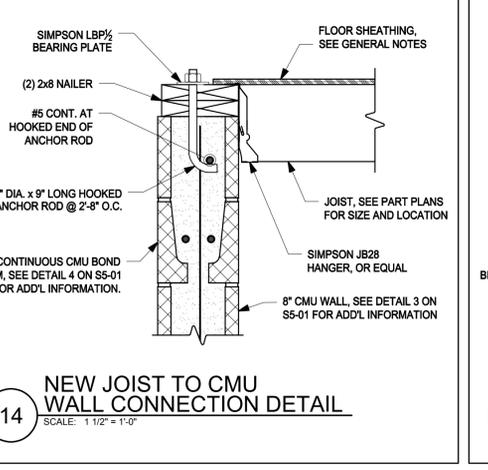
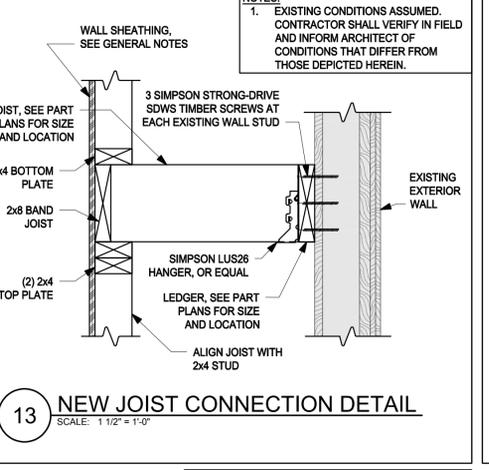
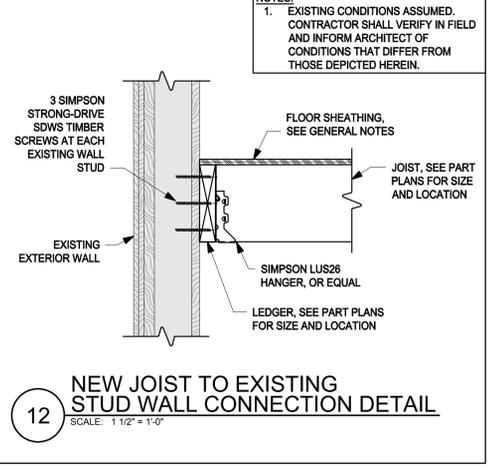
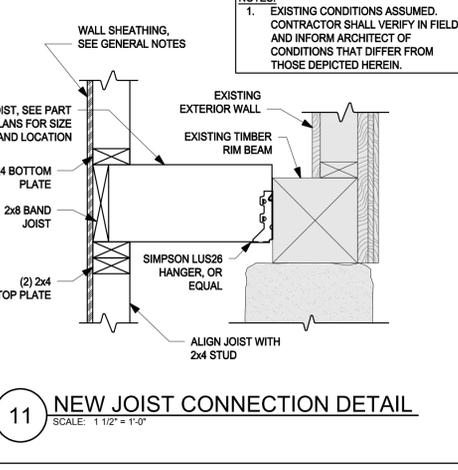
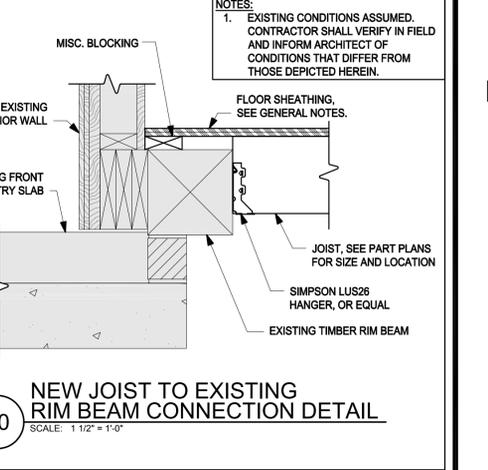
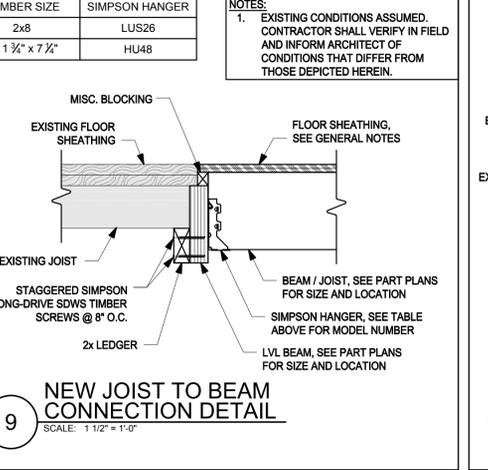
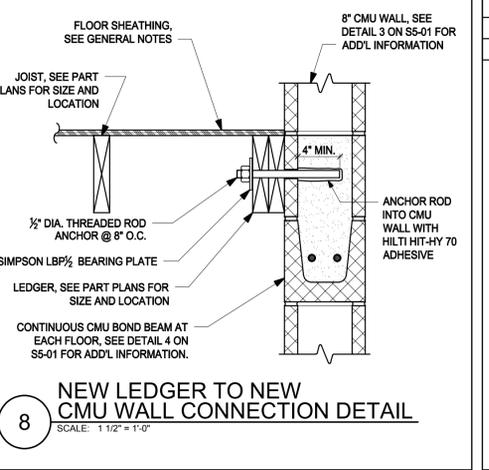
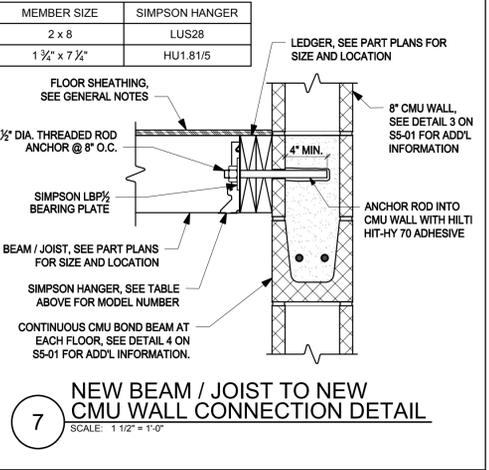
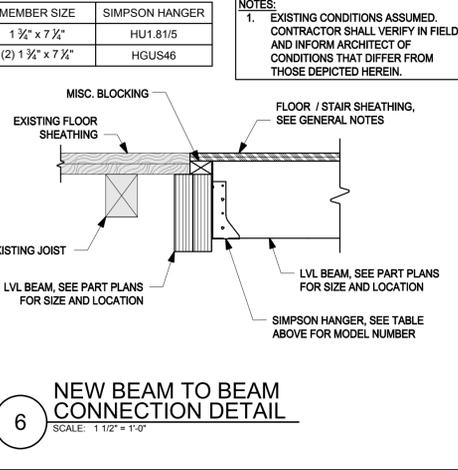
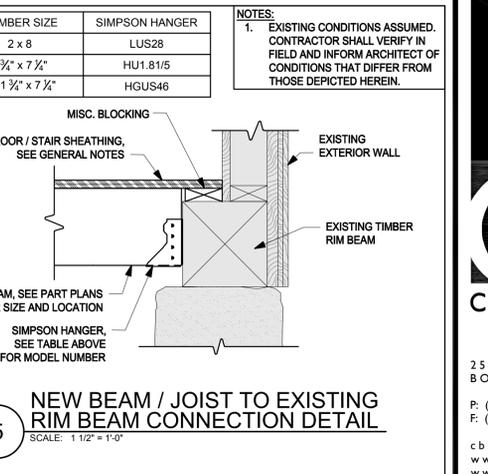
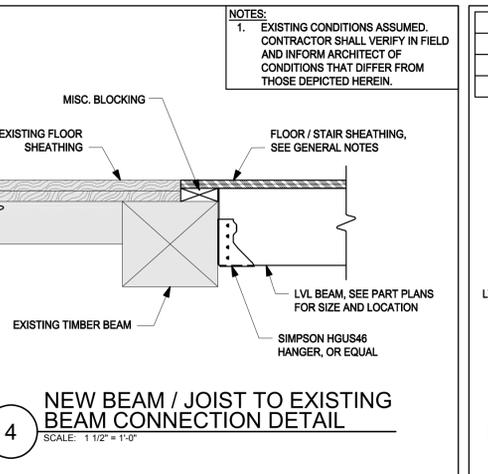
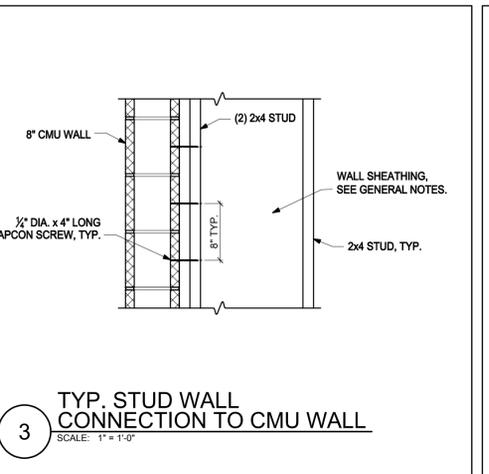
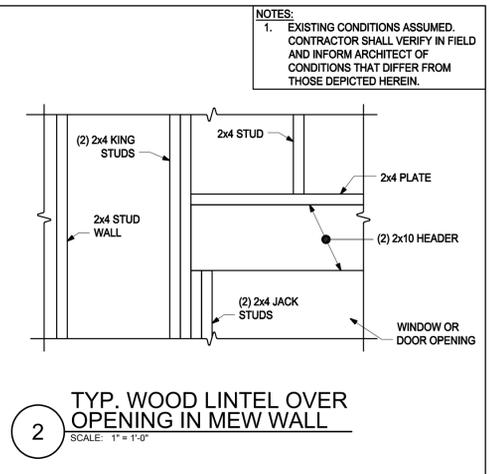
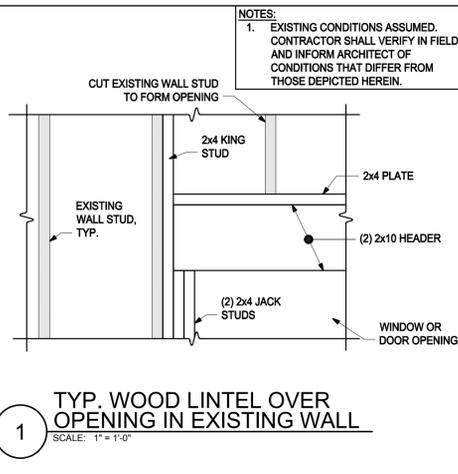
Revisions:

Submission:  
**BIDDING  
DOCUMENTS**

Date: 10/31/2018  
Project Number: 17009  
Project Manager: RD  
Drawn By: PT  
Scale: AS NOTED

**S5-02**

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www.vidaris.com

FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



TOWN OF TYNGSBOROUGH

STRUCTURAL FRAMING DETAILS

Drawing Title:  
Revisions:

BIDDING DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: AMW  
Drawn By: CRW  
Scale: AS NOTED

S5-03

FIRST PARISH  
MEETING HOUSE  
INTERIOR  
RENOVATION



TOWN OF  
TYNGSBOROUGH

Drawing Title:

STRUCTURAL  
FRAMING DETAILS

Revisions:

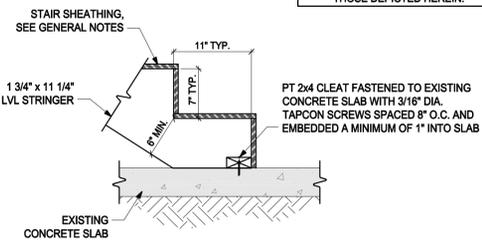
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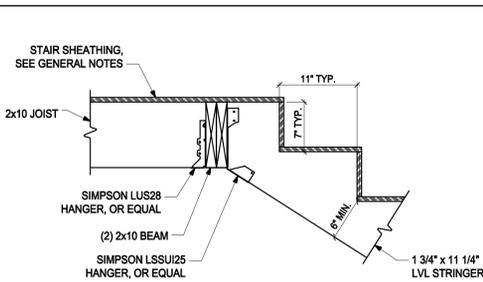
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Drawn By: CRW  
Scale: AS NOTED

S5-04

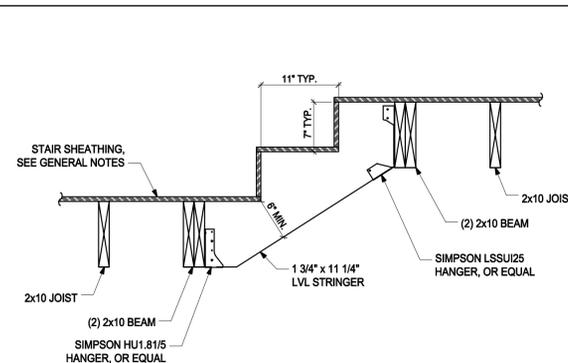
NOTES:  
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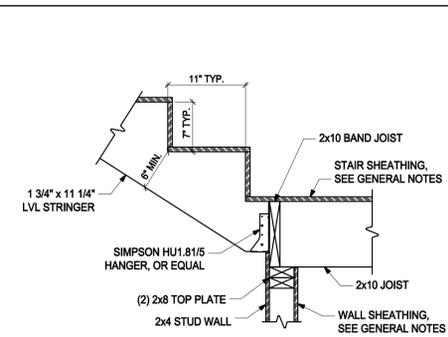
1 NEW STRINGER AT EXISTING SLAB-ON-GRADE DETAIL  
SCALE: 1" = 1'-0"



2 NEW STRINGER / JOIST TO NEW BEAM CONNECTION DETAIL  
SCALE: 1" = 1'-0"

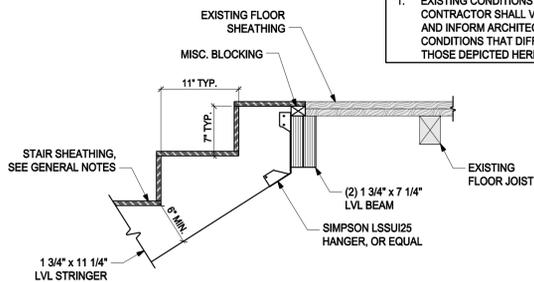


3 NEW STRINGER TO NEW BEAM CONNECTION DETAIL  
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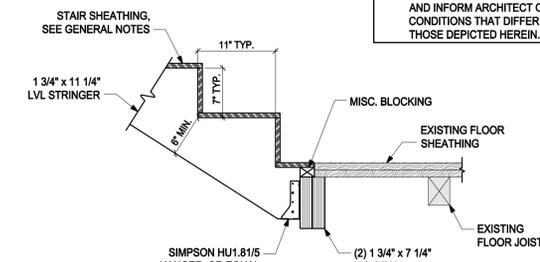
4 NEW STRINGER / JOIST TO NEW WALL CONNECTION DETAIL  
SCALE: 1" = 1'-0"

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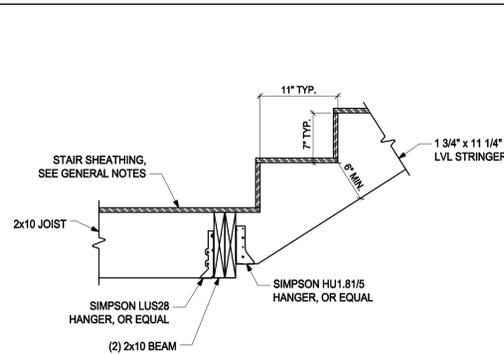


5 NEW STRINGER TO NEW BEAM CONNECTION DETAIL  
SCALE: 1" = 1'-0"

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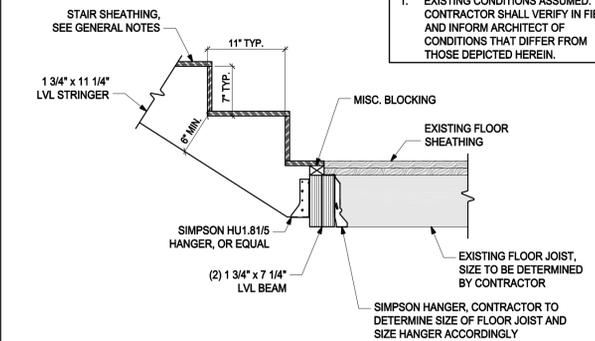


6 NEW STRINGER TO NEW BEAM CONNECTION DETAIL  
SCALE: 1" = 1'-0"



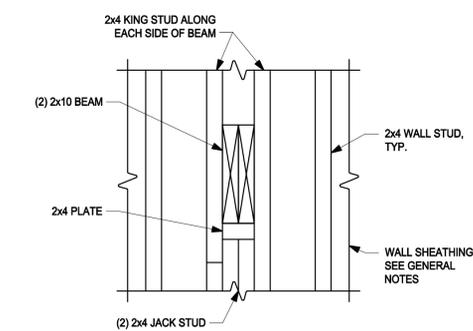
7 NEW STRINGER / JOIST TO NEW BEAM CONNECTION DETAIL  
SCALE: 1" = 1'-0"

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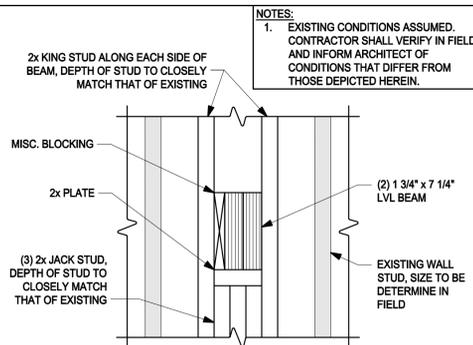


8 NEW STRINGER / EXISTING JOIST TO NEW BEAM CONNECTION DETAIL  
SCALE: 1" = 1'-0"

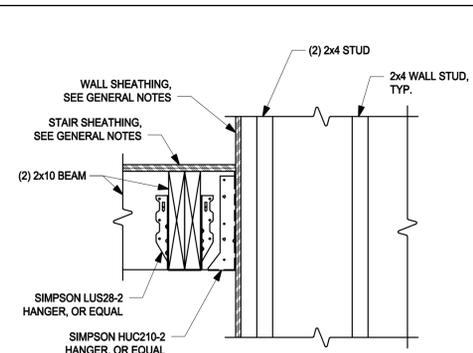
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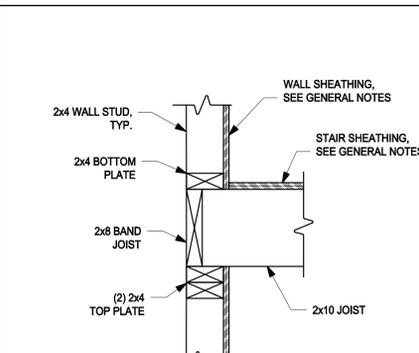
9 NEW BEAM TO NEW STUD WALL CONNECTION DETAIL  
SCALE: 1 1/2" = 1'-0"



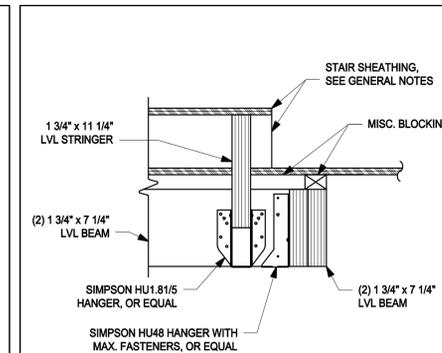
10 NEW BEAM TO EXISTING STUD WALL CONNECTION DETAIL  
SCALE: 1 1/2" = 1'-0"



11 NEW BEAM TO NEW STUD WALL CONNECTION DETAIL  
SCALE: 1 1/2" = 1'-0"

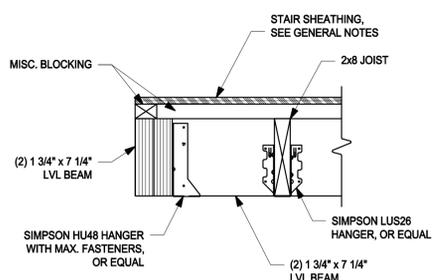


12 NEW BEAM TO NEW STUD WALL CONNECTION DETAIL  
SCALE: 1 1/2" = 1'-0"



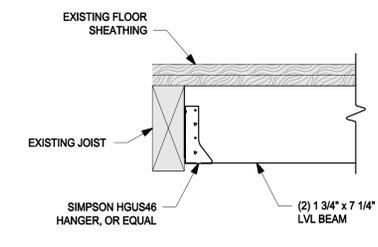
13 NEW BEAM TO BEAM CONNECTION DETAIL  
SCALE: 1 1/2" = 1'-0"

NOTES:  
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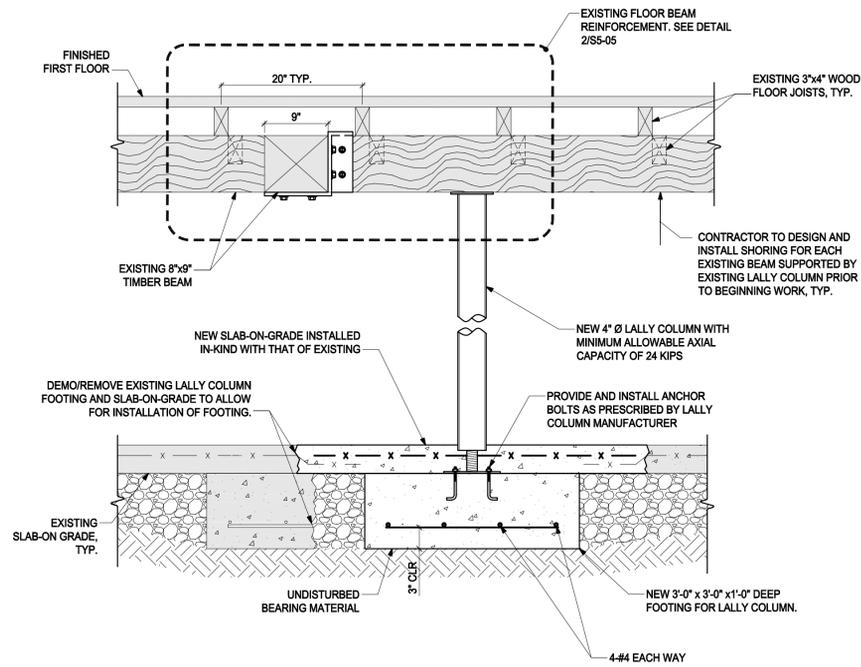


14 NEW BEAM TO BEAM CONNECTION DETAIL  
SCALE: 1 1/2" = 1'-0"

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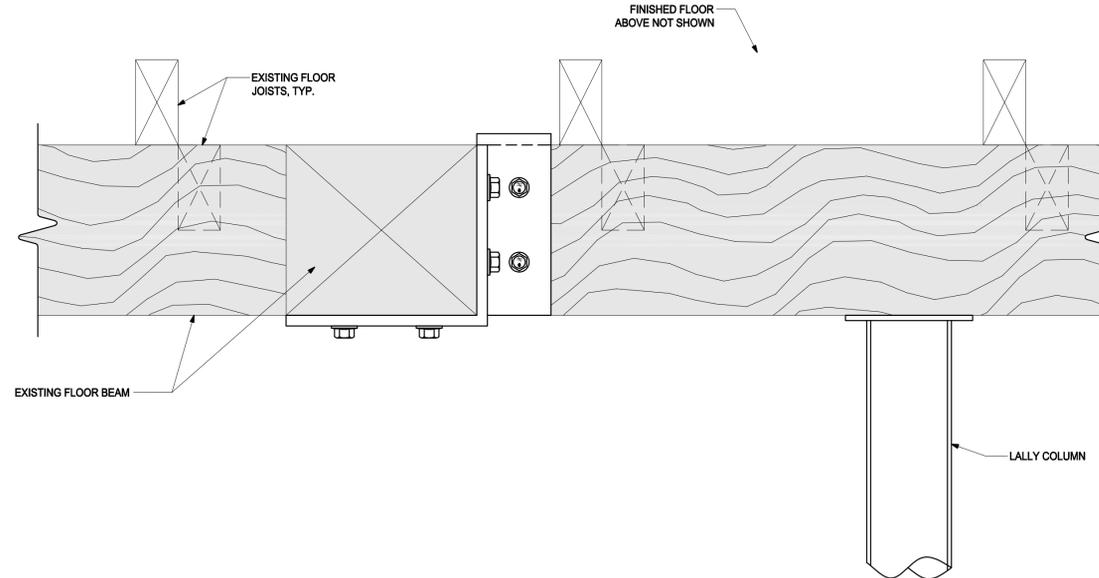


15 NEW STRINGER AT EXISTING WALL  
SCALE: 1" = 1'-0"

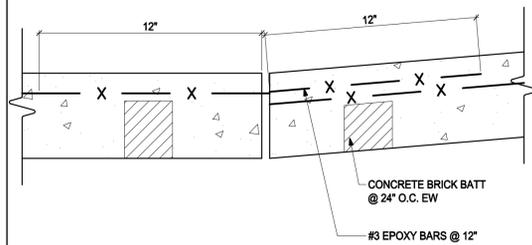


1 EXISTING LALLY COLUMN RELOCATION  
SCALE: 1"=1'-0"

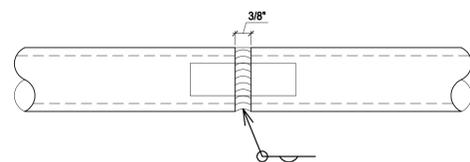
NOTE: REFER TO DRAWINGS D1-00 AND A1-00 FOR LOCATIONS



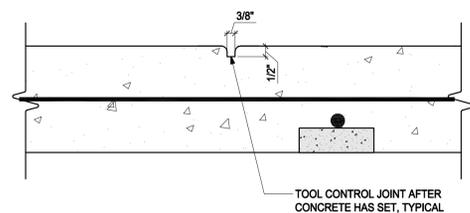
2 EXISTING FLOOR BEAM REINFORCEMENT  
SCALE: 3"=1'-0"



3 CONCRETE LANDING AT GRADE  
SCALE: N.T.S.

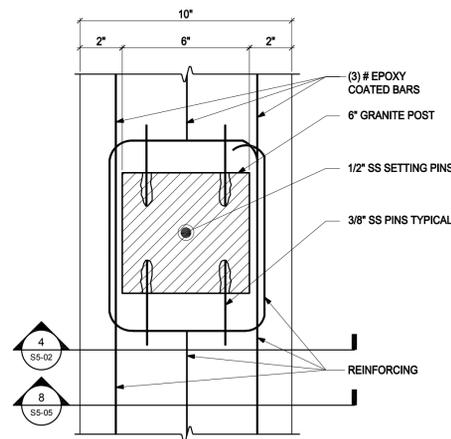


4 SPLICE PIPE HANDRAIL  
SCALE: 6"=1'-0"

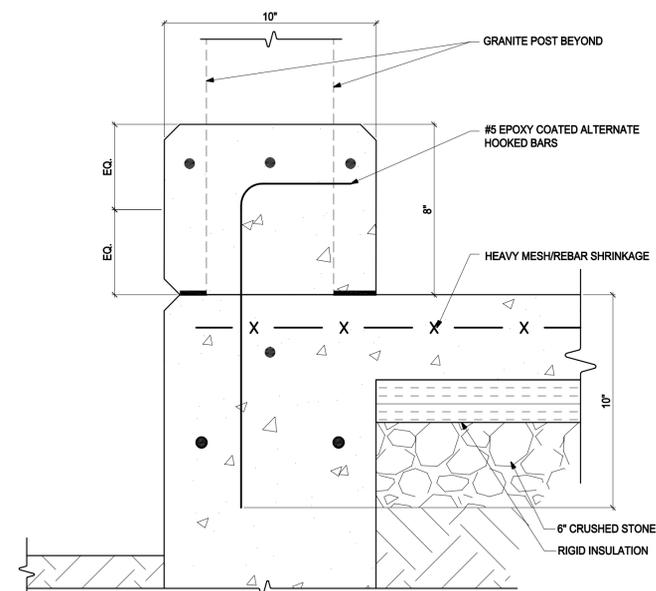


5 CONTROL JOINT DETAIL  
SCALE: 3"=1'-0"

6 NOT USED  
SCALE: N.T.S.



7 TYP. PLAN AT NEW RAMP FOUNDATION WALL  
SCALE: 3"=1'-0"



8 TYP. SECTION AT NEW RAMP FOUNDATION WALL  
SCALE: 3"=1'-0"



Drawing Title:

EXISTING LALLY  
COLUMN  
RELOCATION  
DETAILS

Revisions:

Submission:

BIDDING  
DOCUMENTS

Date: 10/31/2018  
Project Number: 17009  
Project Manager: AMW  
Drawn By: BE / CRW  
Scale: AS NOTED

**S5-05**

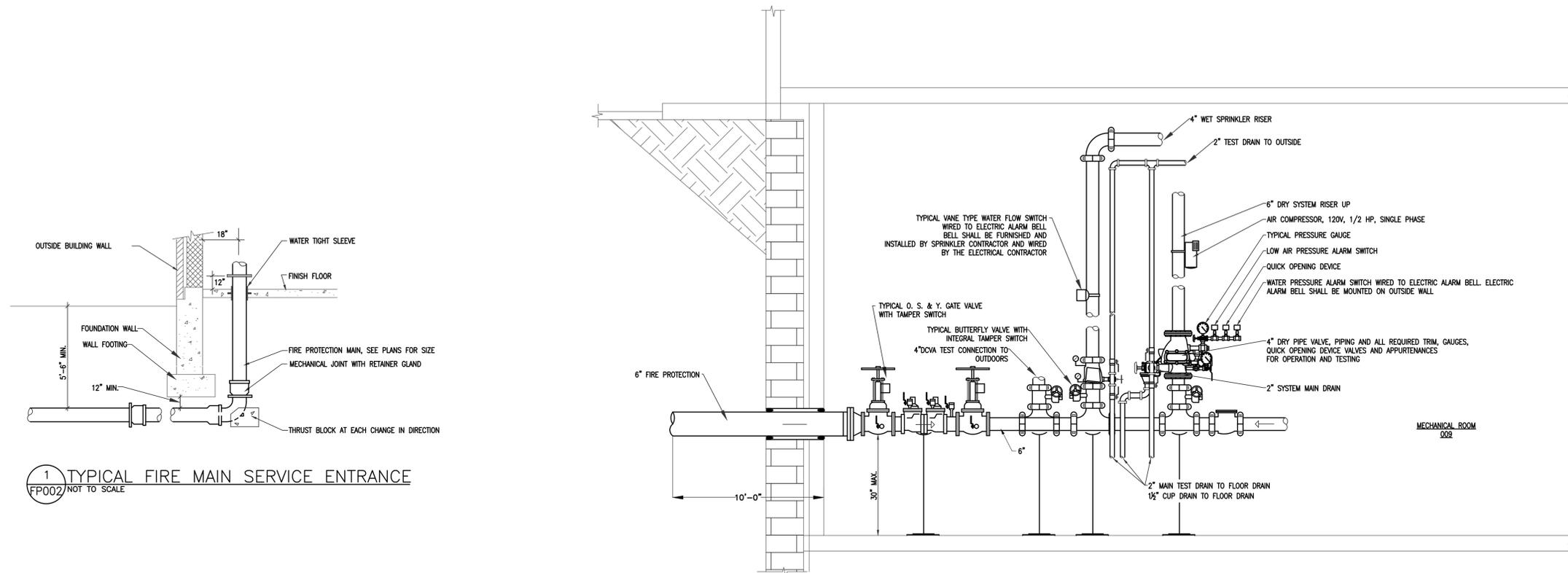
**GENERAL NOTES**

- THE DRAWINGS ARE PRELIMINARY IN NATURE AND PROVIDE BASIC INFORMATION REQUIRED TO ASSIST THE CONTRACTOR DURING BIDDING PROCESS AND POST BIDDING PROCESS DURING THE DEVELOPMENT OF A WORK PLANS (SHOP DRAWINGS). THE SPRINKLER CONTRACTOR SHALL FIELD VERIFY EXACT PIPE LOCATIONS AND PIPE SIZES OF THE EXISTING SYSTEM. THE EXISTING SYSTEM HYDRAULIC INFORMATION HAS BEEN OBTAINED FROM THE ORIGINAL SHOP DRAWINGS.
- ALL FIRE PROTECTION SYSTEMS, EQUIPMENT AND PIPING SHALL BE DESIGNED, INSTALLED AND TESTED BY A SPRINKLER CONTRACTOR LICENSED OR EXPERIENCED IN THE STATE OF MASSACHUSETTS IN THE DESIGN, INSTALLATION, AND TESTING OF SPRINKLER SYSTEMS.
- ALL WORK PERFORMED SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE WITH THE AMENDMENTS OF THE MASSACHUSETTS STATE BUILDING CODE 9TH EDITION, NFPA-13 LATEST ACCEPTED EDITION AS WELL AS ALL RULES AND REGULATIONS OF THE AUTHORITY HAVING JURISDICTION.
- ALL PIPING SHALL BE RUN CONCEALED AND ABOVE THE NEW CEILINGS, UNLESS OTHERWISE NOTED. CARE SHALL BE TAKEN TO RUN ALL PIPING AS TIGHT TO CEILING AND WALLS AS POSSIBLE. ALL PIPING SHALL FOLLOW THE BUILDING LINES AND SHALL RUN PARALLEL TO WALL IN A NEAT MANNER.
- CONTRACTOR SHALL PROVIDE FIRESTOPPING FOR ALL PENETRATIONS THRU FIRE WALLS AND FIRE RATED SEPARATIONS.
- ALL SPRINKLER PIPING AND HEADS ARE SHOWN DIAGRAMMATICALLY. ALL SPRINKLER HEADS SHALL BE INSTALLED SYMMETRICALLY AND HARMONIOUSLY IN ALIGNMENT. CONTRACTOR SHALL COORDINATE ARCHITECTURAL AND MECHANICAL SYSTEMS CONDITIONS, PRIOR TO COMMENCEMENT OF ANY INSTALLATIONS, TO ENSURE THAT NO INTERFERENCES EXIST AND THAT ALL COMPONENTS OF THE SPRINKLER SYSTEM WILL FIT AND WILL NOT BE OBSTRUCTED. IN THE PRESENCE OF OBSTRUCTION WIDER THAN 4'-0", THE CONTRACTOR SHALL PROVIDE ADDITIONAL HEAD(S) AND SPACE THEM ACCORDINGLY UNDERNEATH THE OBSTRUCTION.
- CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN ALL SCAFFOLDING, HOISTING EQUIPMENT, AND DERRICKS NECESSARY FOR INSTALLATION OF WORK.
- THE CONTRACTOR SHALL PRODUCE A COMPLETE SET OF WORKING FIRE PROTECTION DRAWINGS IN ACCORDANCE WITH NFPA-13 LATEST ACCEPTED EDITION. THE SYSTEM SHALL BE HYDRAULICALLY CALCULATED AT THE MOST DEMANDING OR MOST REMOTE AREA(S) PER THE DESIGN CRITERIA INDICATED AND AS REQUIRED BY CODE. ALL DRAWINGS AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY THE CONTRACTOR'S REGISTERED FIRE PROTECTION ENGINEER, AND SHALL BE SUBMITTED TO THE LOCAL FIRE DEPARTMENT FOR WRITTEN APPROVAL. THIS SHALL BE DONE PRIOR TO THE COMMENCEMENT OF ANY SPRINKLER WORK.
- AN ADDITIONAL SET OF STAMPED FIRE PROTECTION DRAWINGS AND CALCULATIONS AS DESCRIBED ABOVE SHALL BE SUBMITTED TO THE OWNER FOR WRITTEN APPROVAL. THIS SHALL BE DONE PRIOR TO THE COMMENCEMENT OF ANY SPRINKLER WORK.
- SPRINKLER CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING IN ORDER TO ACCOMMODATE THE SPRINKLER WORK.
- THE CONTRACTOR SHALL MAKE REASONABLE CHANGES TO THE SPRINKLER HEAD LOCATIONS AND SPRINKLER PIPE ROUTES, AS A RESULT OF COORDINATION WITH OTHER TRADES AT NO ADDITIONAL COST TO THE CONTRACT.
- THE TERM "CONTRACTOR" SHALL MEAN "SPRINKLER CONTRACTOR".
- PROVIDE WIRE CAGE GUARD PROTECTION FOR ALL UPRIGHT SPRINKLER HEADS INSTALLED WITHIN 7'-0" OFF THE FLOOR LEVEL.
- THE CONTRACTOR SHALL PROVIDE A FIRE DEPARTMENT PERSONNEL STAFFED "FIRE WATCH" DURING ALL WELDING OPERATIONS.
- ALL MATERIALS AND EQUIPMENT USED FOR FIRE PROTECTION SYSTEMS SHALL BE UL LISTED OR FM APPROVED FOR FIRE PROTECTION SERVICE, AND SHALL BE RATED AT 175 PSI WORKING PRESSURE.
- THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL FIRE DEPARTMENT FOR TESTING AND ACCEPTANCE OF ALL SPRINKLER WORK. THE CONTRACTOR SHALL FIX ANY DEFICIENCY FOUND DURING TESTING AND SHALL RETEST ALL SPRINKLER SYSTEMS UNTIL THE ENTIRE SYSTEM IS ACCEPTED BY THE LOCAL FIRE DEPARTMENT.
- THE CONTRACTOR SHALL TEST AND FLUSH ALL SPRINKLER SYSTEMS IN ACCORDANCE WITH NFPA-13 AND SHALL PROVIDE FLUSHING AND TESTING REPORTS IN ACCORDANCE WITH NFPA-13. THE CONTRACTOR SHALL SUBMIT THESE REPORTS TO THE LOCAL FIRE DEPARTMENT OWNER PRIOR TO FINAL ACCEPTANCE OF THE SPRINKLER SYSTEMS.
- THE CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL FIRE RATED WALLS, FLOORS AND CEILINGS AND PROVIDE THE APPROPRIATE FIRESTOPPING AND SEALING OF ALL PENETRATIONS THRU.
- THE DRAWINGS ARE NOT INTENDED TO SHOW EXACT BUILDING CONDITIONS. THE SPRINKLER CONTRACTOR SHALL USE THE FLOORS PLANS AS GENERAL REFERENCE ONLY. AS PART OF THE CREATION OF THE SPRINKLER CONTRACTOR'S SHOP DRAWINGS, THE SPRINKLER CONTRACTOR SHALL SURVEY THE BUILDING AND SHALL VERIFY THE EXACT ARCHITECTURAL CONDITIONS. THE SPRINKLER CONTRACTOR SHALL ALTER THE FLOOR PLANS AS REQUIRED TO ACCURATELY DEPICT THE ACTUAL ARCHITECTURAL CONDITIONS IN THE BUILDING. THIS SHALL BE DONE PRIOR TO THE COMMENCEMENT OF ANY SPRINKLER DESIGN WORK.
- THE CONTRACTOR SHALL PAY ALL FEES, OBTAIN ALL PERMITS AND APPROVALS, AND SHALL FURNISH ALL LABOR AND MATERIALS NEEDED FOR THE COMPLETE INSTALLATION OF ALL FIRE PROTECTION SYSTEMS SHOWN ON THE PLANS.
- THE SPRINKLER CONTRACTOR SHALL CONDUCT A NEW FIRE HYDRANT FLOW TEST IN ORDER TO OBTAIN CURRENT FLOW AND PRESSURE DATA. THE CONTRACTOR SHALL USE THIS NEWLY OBTAINED DATA TO PERFORM HYDRAULIC CALCULATIONS FOR THE SPRINKLER SYSTEM SHOP DRAWINGS. HYDRAULIC CALCULATIONS SHALL BE STAMPED AND SIGNED BY THE CONTRACTOR'S FIRE PROTECTION ENGINEER, AND SHALL BE SUBMITTED WITH THE SPRINKLER SYSTEM SHOP DRAWINGS TO THE LOCAL FIRE DEPARTMENT AND OWNER INSURANCE AUTHORITY FOR FINAL APPROVAL. THIS SHALL BE DONE PRIOR TO THE COMMENCEMENT OF ANY SPRINKLER WORK.
- THE SPRINKLER CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND SHALL PAY ALL FEES AND PERFORM ALL COORDINATION WITH LOCAL WATER AUTHORITY, AND OWNER, THAT IS REQUIRED FOR THE CONDUCTING OF THE NEW FLOW TEST.

FLOW DATA	
HYDRAULIC CALCULATIONS FOR THIS DESIGN HAS BEEN BASED ON THE FOLLOWING MINIMUM FLOW CRITERIA:	
STATIC PRESSURE	xx PSI
RESIDUAL PRESSURE	xx PSI
FLOW	xxx GPM
DATE OF FLOW TEST	0x/1x/20xx
SIZE OF MAIN	x"
THE SPRINKLER CONTRACTOR SHALL COORDINATE WITH THE LOCAL WATER DEPARTMENT AND PROVIDE A NEW FLOW TEST. THE NEW FLOW TEST SHALL BE USED FOR THE HYDRAULIC CALCULATIONS OF THE SPRINKLER CONTRACTOR'S SHOP DRAWINGS	
DESIGN CRITERIA	
<b>OCCUPANCY CLASSIFICATION:</b>	<b>BUILDING CONSTRUCTION TYPE:</b>
BASEMENT & FIRST FLOOR - GROUP A-3, ASSEMBLY MEZZANINE - S-2	V-B COMBUSTIBLE
<b>SEATING AREA AND BATHROOMS:</b>	<b>STORAGE AREA:</b>
LIGHT HAZARD OCCUPANCY 0.10 GPM PER 1500 SQUARE FEET 100 GPM HOSE STREAM ALLOWANCE	ORDINARY HAZARD GROUP 2 OCCUPANCY 0.20 GPM PER 1500 SQUARE FEET 250 GPM HOSE STREAM ALLOWANCE
<b>DRY SPRINKLER SYSTEM:</b>	
DRY QUICK RESPONSE UPRIGHT SPRINKLERS THE CALCULATIONS FOR THE ATTIC SHALL HAVE THE AREA INCREASED WITH 30% FOR DRY SYSTEM DESIGN AND ADDITIONAL 30% FOR THE ROOF SLOPE AT 0.10 GPM PER 2,535 SQUARE FEET AND 100 GPM HOSE STREAM ALLOWANCE	

**FIRE PROTECTION LEGEND**

●	SPRINKLER HEAD - CONCEALED PENDENT	ARCH	ARCHITECT
●	SPRINKLER HEAD - DRY CONCEALED PENDENT	AFB	ABOVE FINISHED FLOOR
⊙	SPRINKLER HEAD - UPRIGHT	CLG	CEILING
△	SPRINKLER HEAD - SIDEWALL	CONT	CONTINUATION
△	SPRINKLER HEAD - DRY SIDEWALL	DWG	DRAWING
△	FLEXIBLE SPRINKLER HEAD - DRY SIDEWALL/PENDENT	EC	ELECTRICAL CONTRACTOR
⊗	SPRINKLER HEAD CAGE	ELEC	ELECTRICAL
—○—	ELBOW UP OR RISE	FT	FOOT/FEET
—○—	ELBOW DOWN OR DROP	GC	GENERAL CONTRACTOR
—	SPRINKLER SYSTEM PIPING	GPM	GALLON PER MINUTE
— —	FIRESTOPPING	MIN	MINIMUM
⊥	CAP	MAX	MAXIMUM
⊕	CONNECT TO EXISTING PIPING	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
⊖	KEYNOTE DESIGNATION / DRAWING KEYNOTE	NTS	NOT TO SCALE
		SPR	SPRINKLER PIPING
		WS	WET SPRINKLER SYSTEM
		TYP.	TYPICAL



1 TYPICAL FIRE MAIN SERVICE ENTRANCE  
FP002 NOT TO SCALE

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**FIRST PARISH  
MEETING HOUSE  
INTERIOR  
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**TOWN OF TYNGSBOROUGH**  
25 BRYANTS LANE  
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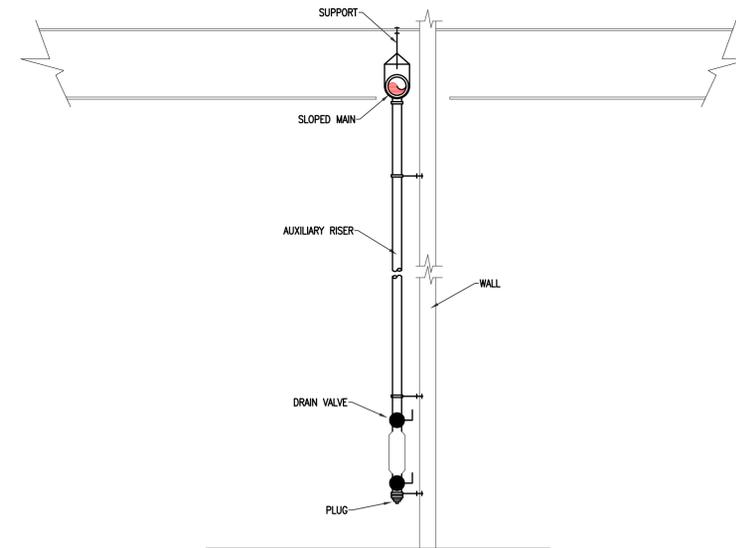
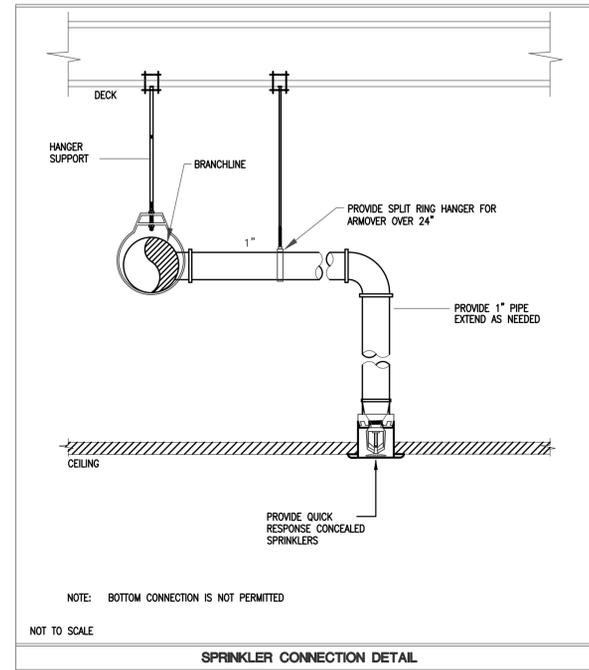
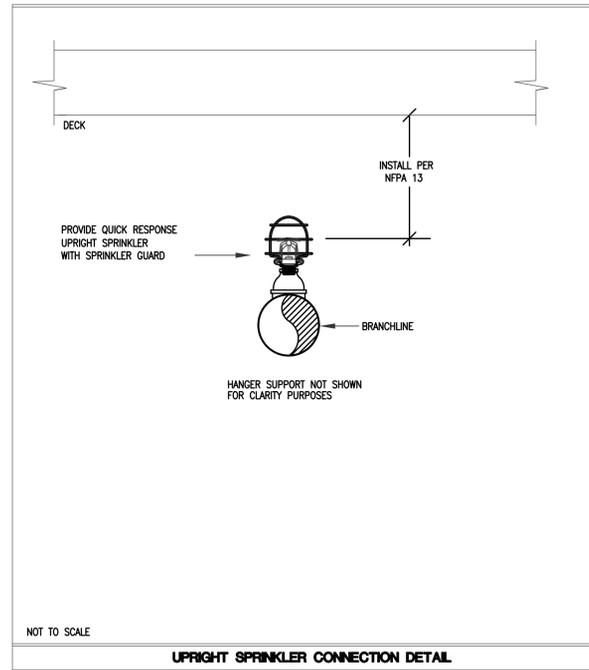
Drawing Title:  
**FIRE PROTECTION  
LEGENDS, NOTES,  
& ABBREVIATIONS**

Revisions:  
**NOT FOR  
CONSTRUCTION**

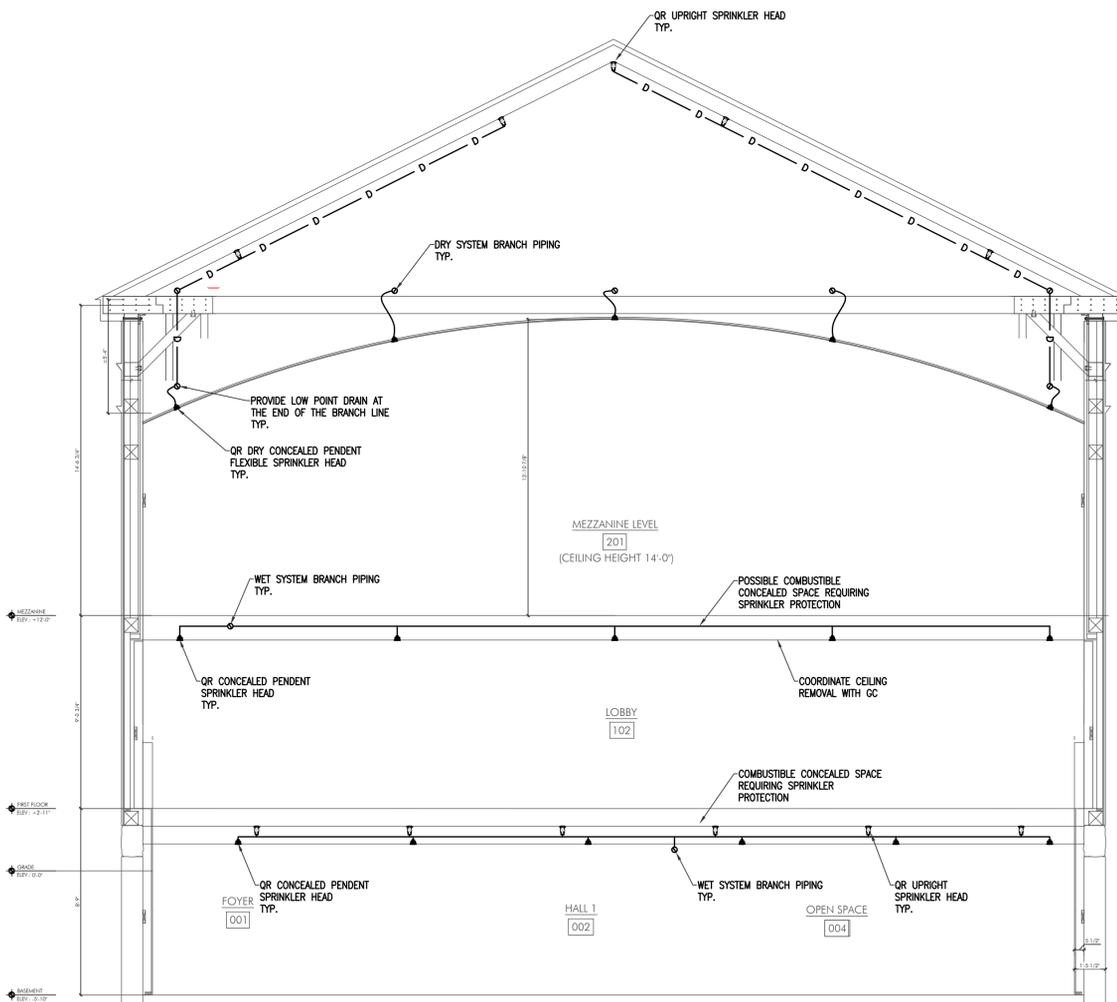
Submission:  
**BIDDING  
DOCUMENTS**

Date: 10/24/2018  
Project Number: 17009  
Project Manager: WJS  
Drawn By: GGB  
Scale: NTS

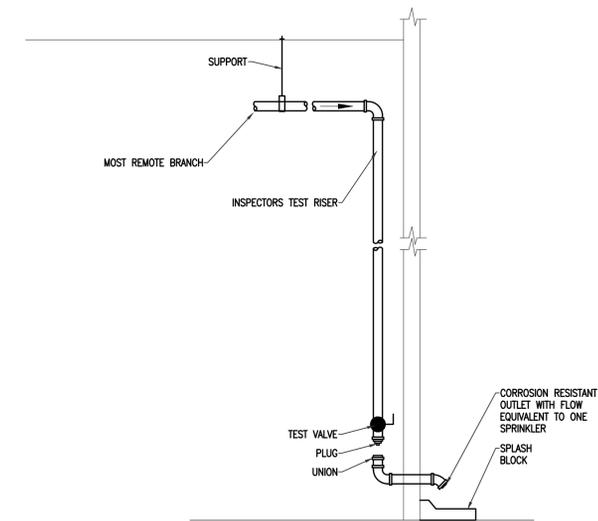
**FP0-01**



2 DRY SYSTEM AUXILIARY DRAIN DETAIL  
FP002 NOT TO SCALE



1 AUTOMATIC SPRINKLER SYSTEMS SCHEMATIC  
FP002 NOT TO SCALE



3 DRY SYSTEM TEST CONNECTION  
FP002 NOT TO SCALE



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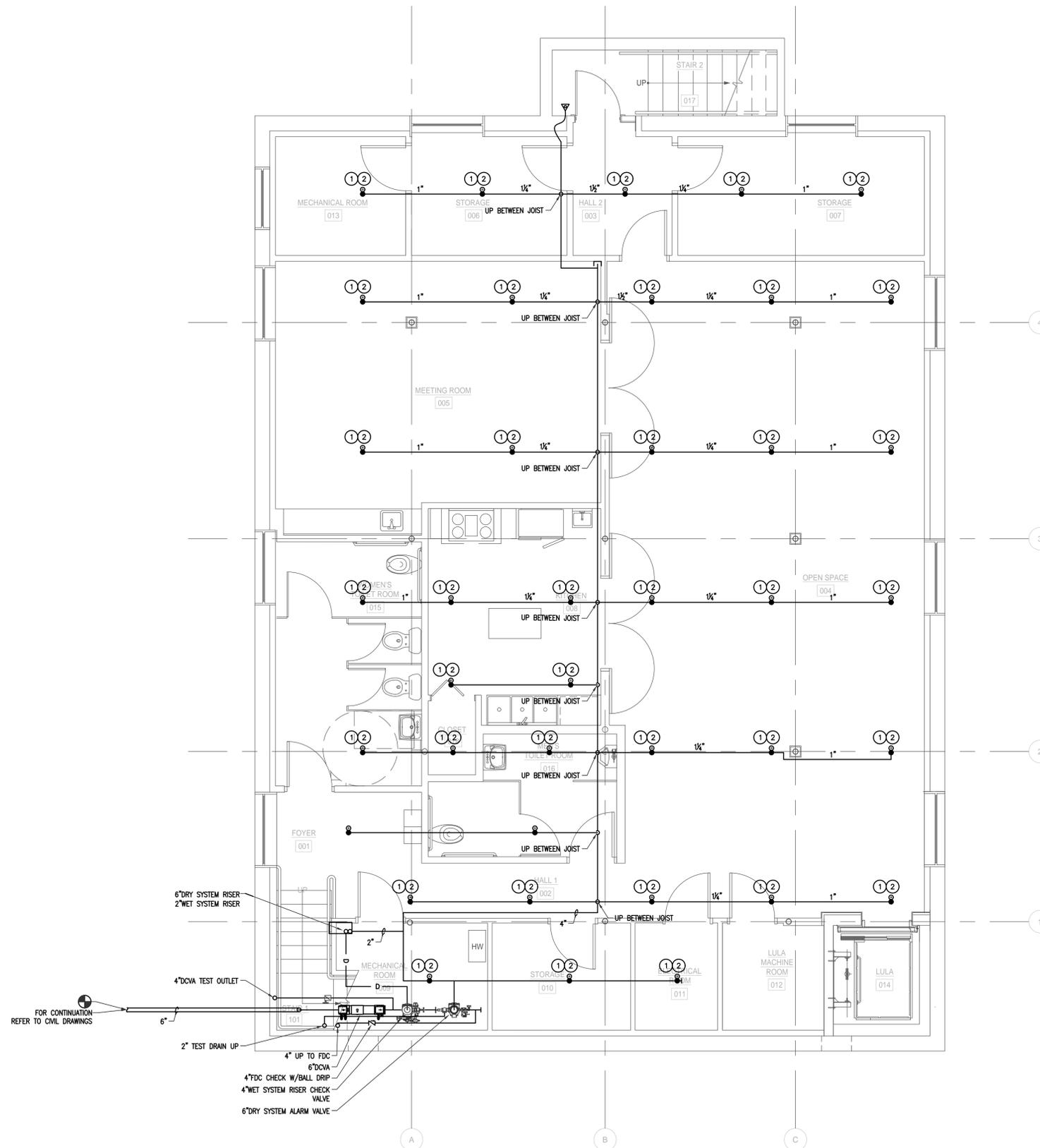
Drawing Title:  
FIRE PROTECTION  
DETAILS

Revisions:  
**NOT FOR  
CONSTRUCTION**

Submission:  
BIDDING  
DOCUMENTS

Date: 10/24/2018  
Project Number: 17009  
Project Manager: WJS  
Drawn By: GGB  
Scale: NTS

FP0-02



**DRAWING NOTES:**

1. PRIOR TO PRICING, SPRINKLER CONTRACTOR SHALL SURVEY THE EXISTING SPACES, COORDINATE ROUTING OF NEW SPRINKLER PIPING AND LOCATION OF SPRINKLER HEADS WITH EXISTING STRUCTURAL COMPONENTS, WALLS, CEILINGS.
2. WHERE REQUIRED, LOCATION OF SPRINKLER HEADS ABOVE CEILINGS IN COMBUSTIBLE SPACES SHALL BE DETERMINED IN THE FIELD.
3. PROVIDE SPRINKLER HEAD WIRE GUARD WHERE SPRINKLER HEADS ARE SUBJECT TO DAMAGE OR ARE LOCATED 7'-0" ABOVE FLOOR LEVEL.
4. ALL PIPING IS DIAGRAMMATIC, EXACT LOCATION TO BE DETERMINED IN THE FIELD.
5. WHERE THE INSTALLATION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE INSTALLATION.
6. THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF STATE OF MASSACHUSETTS, GOVERNING BODIES AND AUTHORITIES HAVING JURISDICTION REGARDING THE INSTALLATION OF ALL PLUMBING SYSTEMS.
7. COORDINATE LOCATION ALL PIPING WITH THE OTHER TRADES. PROVIDE ALL NECESSARY OFFSETS TO PREVENT CONFLICTS WITH OTHER TRADES.
8. PROVIDE ACCESS PANELS FOR ALL INACCESSIBLE EQUIPMENT REQUIRING REGULAR MAINTENANCE OR OPERATION. FURNISH ACCESS PANELS IN ADEQUATE SIZE AND COORDINATE LOCATIONS WITH THE GENERAL CONTRACTOR.
9. PROVIDE ALL SLEEVES, CORE DRILLING, WATER, SMOKE AND FIRE SEALING OF PIPING PENETRATIONS THROUGH WALLS AND FLOORS.
10. THE SPRINKLER CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF SPRINKLER DRAWINGS, AND ACCURATELY MARK AND RECORD THE SPRINKLER SYSTEM INSTALLATION LAYOUT. AFTER THE JOB COMPLETION ALL PLANS SHALL BE SUBMITTED AS AN "AS-BUILTS" TO THE OWNER AND ENGINEER.
11. UPON COMPLETION OF ALL WORK, FURNISH IN DUPLICATE, CERTIFICATIONS OF INSPECTIONS.

**KEYED NOTES #**

1. PROVIDE QUICK RESPONSE SPRINKLER, FLAT PLATE CONCEALED, PENDENT, WHITE FINISH, K5.6 AS INDICATED.
2. PROVIDE QUICK RESPONSE SPRINKLER, UPRIGHT, BRASS FINISH, K5.6 AS INDICATED.
3. PROVIDE QUICK RESPONSE SPRINKLER DRY, CONCEALED, SIDEWALL, WHITE, 5.6K, AS INDICATED.



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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**  
25 BRYANTS LANE  
TYNGSBOROUGH, MA 01879

Drawing Title:  
**FIRE PROTECTION BASEMENT LEVEL NEW WORK PLAN**

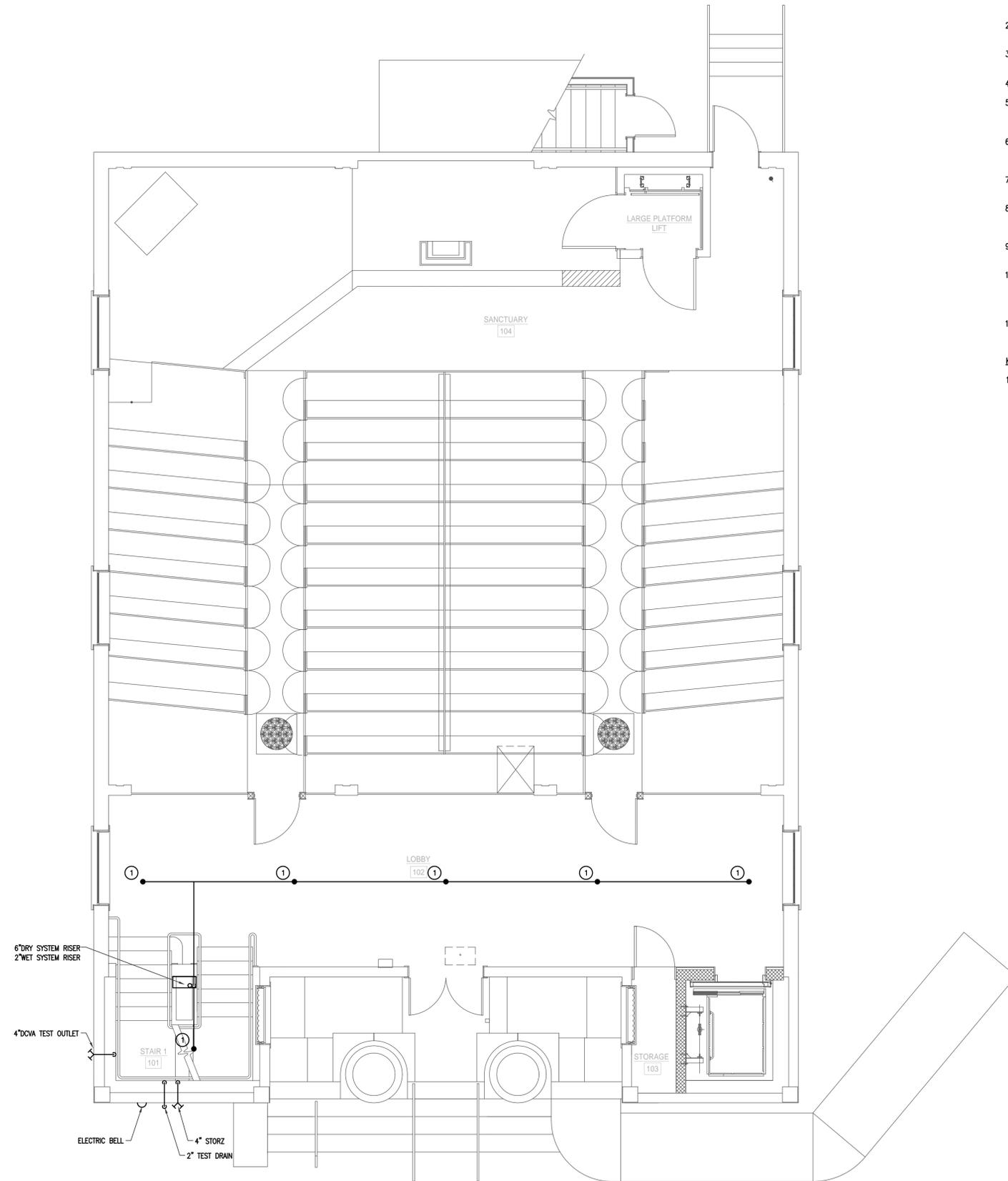
Revisions:

**NOT FOR CONSTRUCTION**

Submission:  
**BIDDING DOCUMENTS**

Date: 10/24/2018  
Project Number: 17009  
Project Manager: WJS  
Drawn By: GGB  
Scale: 1/4"=1'-0"

**FP2-00**



**DRAWING NOTES:**

1. PRIOR TO PRICING, SPRINKLER CONTRACTOR SHALL SURVEY THE EXISTING SPACES, COORDINATE ROUTING OF NEW SPRINKLER PIPING AND LOCATION OF SPRINKLER HEADS WITH EXISTING STRUCTURAL COMPONENTS, WALLS, CEILINGS.
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11. UPON COMPLETION OF ALL WORK, FURNISH IN DUPLICATE, CERTIFICATIONS OF INSPECTIONS.

**KEYED NOTES #**

1. PROVIDE QUICK RESPONSE SPRINKLERS THROUGHOUT CORRIDORS AND COMMON AREAS, FLAT PLATE CONCEALED, PENDENT, K5.6 WITH MINIMUM DENSITY OF 0.1 GPM/SQ.FT. AND ORDINARY TEMPERATURE RATING.



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**TOWN OF  
TYNGSBOROUGH**  
25 BRYANTS LANE  
TYNGSBOROUGH, MA 01879

Drawing Title:

**FIRE PROTECTION  
FIRST FLOOR  
NEW WORK PLAN**

Revisions:

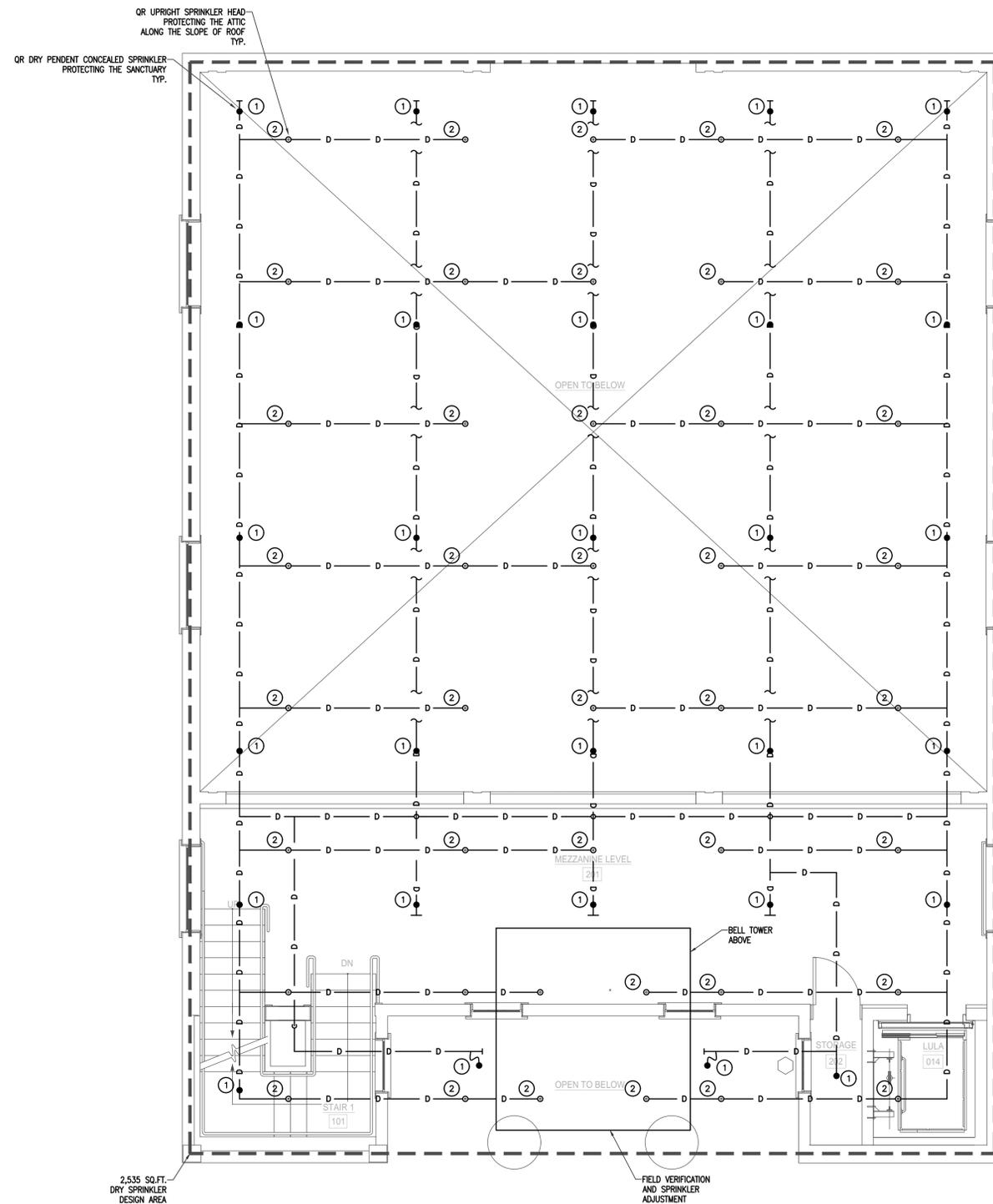
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CONSTRUCTION**

Submission:

**BIDDING  
DOCUMENTS**

Date: 10/24/2018  
Project Number: 17009  
Project Manager: WJS  
Drawn By: GGB  
Scale: 1/4"=1'-0"

**FP2-01**



**DRAWING NOTES:**

1. PRIOR TO PRICING, SPRINKLER CONTRACTOR SHALL SURVEY THE EXISTING SPACES, COORDINATE ROUTING OF NEW SPRINKLER PIPING AND LOCATION OF SPRINKLER HEADS WITH EXISTING STRUCTURAL COMPONENTS, WALLS, CEILINGS.
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9. PROVIDE ALL SLEEVES, CORE DRILLING, WATER, SMOKE AND FIRE SEALING OF PIPING PENETRATIONS THROUGH WALLS AND FLOORS.
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11. UPON COMPLETION OF ALL WORK, FURNISH IN DUPLICATE, CERTIFICATIONS OF INSPECTIONS.

**KEYED NOTES (#)**

1. PROVIDE QUICK RESPONSE SPRINKLER DRY, FLEXIBLE, FLAT PLATE CONCEALED, PENDENT, WHITE FINISH, K5.6 AS INDICATED.
2. PROVIDE QUICK RESPONSE SPRINKLER, UPRIGHT, BRASS FINISH, K5.6 AS INDICATED.



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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**  
25 BRYANTS LANE  
TYNGSBOROUGH, MA 01879

Drawing Title:  
**FIRE PROTECTION MEZZANINE & ATTIC LEVELS NEW WORK PLAN**

Revisions:  
**NOT FOR CONSTRUCTION**

Submission:  
**BIDDING DOCUMENTS**

Date: 10/24/2018  
Project Number: 17009  
Project Manager: WJS  
Drawn By: GGB  
Scale: 1/4"=1'-0"

**FP2-02**

**GENERAL NOTES**

- ALL PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE MASSACHUSETTS STATE PLUMBING CODE.
- CAREFULLY COORDINATE LOCATION OF PIPING WITH ALL OTHER TRADES.
- ALL PIPING SHOWN DIAGRAMMATICALLY AND EXACT LOCATION SHALL BE DETERMINED IN THE FIELD.
- ALL PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS, IN WALLS AND IN CHASES, UNLESS OTHERWISE NOTED.
- NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE STRUCTURE ENGINEER.
- ALL PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURE.
- THE TERM "PROVIDE" SHALL MEAN FURNISH AND INSTALL.
- RUN WATER PIPE ON THE WARM SIDE OF BUILDING INSULATION. NO WATER PIPING SHALL BE RUN ON EXTERIOR WALLS.
- PROVIDE DRAWOFFS WITH BALL VALVE, HOSE END VACUUM BREAKER, CAP & CHAIN AT ALL DOMESTIC WATER LOW POINTS AND PITCH PIPING TO DRAIN.
- ALL SANITARY WASTE PIPING SHALL PITCH A MIN OF 1/8" PER FT. FOR PIPING 4" & LARGER, AND 1/4" PER FT FOR PIPING UP TO 3".
- ALL PIPING SHALL BE NEW, INSTALLED PARALLEL TO BUILDING LINES AND PITCHED TO LOW POINTS.
- PLUMBING CONTRACTOR SHALL PROVIDE FIRESTOPPING FOR ALL PENETRATIONS THRU FIRE WALLS AND FIRE RATED SEPARATIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR THESE AREAS.
- PLUMBING CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL SCAFFOLDING, HOISTING EQUIPMENT DERRICKS, ETC., NECESSARY FOR INSTALLATION OF WORK
- ALL PLUMBING PIPING AND DRAINS SHALL BE KEPT CLEAR OF BLOCKAGE WHILE CONSTRUCTION IS UNDERWAY. ALL PLUMBING PIPING SHALL BE DEBURRED BEFORE JOINTS ARE MADE
- THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING IN ORDER TO ACCOMMODATE THE PLUMBING WORK
- WHERE PLUMBING DROPS ONLY ARE SHOWN TO FIXTURES OR GROUPS OF FIXTURES, THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS OF WATER, SANITARY AND VENT TO EACH FIXTURE. PLUMBING CONNECTIONS TO FIXTURES SHALL BE IN ACCORDANCE WITH THE PLUMBING FIXTURE SCHEDULE. PROVIDE SERVICE STOP AT EACH FIXTURE
- ALL ISOLATION VALVES INSTALLED IN WALLS OR ABOVE CEILINGS SHALL BE PROVIDED WITH ACCESS PANELS. WHERE REMOVABLE SUSPENDED CEILING TILES ARE USED, NO ACCESS PANELS ARE REQUIRED.
- ALL PIPING RISER PENETRATIONS THRU FLOORS SHALL BE SEALED WATER TIGHT
- PRIOR TO BID, THE CONTRACTOR SHOULD VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL ASPECTS OF THE WORK AND ALL CONDITIONS TO WHICH THE WORK WILL BE INSTALLED. ANY DISCREPANCY BETWEEN THE WORK SHOWN ON THE DRAWINGS AND ANY CONDITIONS, EXISTING OR PROPOSED, SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING. FAILURE OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS AND THEIR RELATION TO THE NEW WORK AND FAILURE TO SUBMIT DISCREPANCIES IN WRITING TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY PLUMBING WORK SHALL NOT BE ACCEPTED AS A CAUSE FOR ANY EXTRA CHARGE TO THE CONTRACT.
- CONTRACTOR SHALL COORDINATE ALL SHUT DOWNS OF EXISTING SYSTEMS WITH OWNER. ALL SHUT DOWNS SHALL BE PERFORMED AS REQUESTED BY OWNER. NO SHUT DOWNS SHALL BE PERFORMED DURING NORMAL BUSINESS UNLESS AUTHORIZED BY OWNER

PRESSURE REDUCING VALVE							
TAG NO	TYPE	MANUFACTURER	MODEL	INLET	OUTLET	RANGE (PSI)	REMARKS
PRV-1	DIAPHRAGM STYLE	WATTS OR APPROVED EQUAL	LFN25AUB-GG	1"	1"	60-70	PROVIDE FINAL ADJUSTMENT AND ALL PIPING AND ACCESSORIES REQUIRED FOR THE INSTALLATION

WATER METER SCHEDULE				
TAG NO	FIXTURE UNIT RATING (GPM)	METER SIZE	MANUFACTURER	MODEL
WM-1	37 GPM	1"	NEPTUNE	T-10

NOTE: COORDINATE WATER METER SIZE AND INSTALLATION WITH WATER DEPARTMENT.

BACKFLOW PREVENTER							
TAG NO	TYPE	MANUFACTURER	MODEL	INLET	OUTLET	FITTINGS	REMARKS
BFP-1	REDUCED PRESSURE ZONE	WATTS OR APPROVED EQUAL	LF009-QT-S	1/2"	1/2"	909A0C	NOTE: PROVIDE DEVICE(S), INSTALLATION AND TESTING IN ACCORDANCE WITH WATER CROOS-CONNECTION CONTROL AND MANUFACTURERS INSTALLATION INSTRUCTIONS.

PLUMBING FIXTURE SCHEDULE														
TAG NO	FIXTURE	MANUFACTURER	MODEL	SIZE	CW (in)	HW (in)	SAN (in)	V (in)	FLOW RATE	FAUCET	TRAP	SERVICE STOPS AND SUPPLIES	CARRIER	REMARKS
WC-1	WATER CLOSET (HANDICAP ACCESSIBLE)	ZURN OR APPROVED EQUAL	Z5667-BWL1-EL-COMB OR APPROVED EQUAL	4"	1"	N/A	4"	2"	1.28 GPF	ZURN ZEMS6152AV-HET-HW6-MJ OR APPROVED EQUAL	INTEGRAL	N/A	N/A	SEAT SHALL BE WHITE OPEN FRONT, HANDICAP ACCESSIBLE Z5955SS-EL BY ZURN OR APPROVED EQUAL.
WC-2	WATER CLOSET	ZURN OR APPROVED EQUAL	Z5667-BWL1-EL-COMB OR APPROVED EQUAL	4"	1"	N/A	4"	2"	1.28 GPF	ZURN ZEMS6152AV-HET-HW6-MJ OR APPROVED EQUAL	INTEGRAL	N/A	N/A	SEAT SHALL BE WHITE OPEN FRONT, HANDICAP ACCESSIBLE Z5955SS-EL BY ZURN OR APPROVED EQUAL.
LAV-1	LAVATORY	ZURN OR APPROVED EQUAL	Z5344-PED OR APPROVED EQUAL	1 1/2" x 1 1/2"	1/2"	1/2"	2"	2"	0.5 GPM	ZURN 26915-XL-N-HWG-CWB-MJ-TMW-1-SH-MT WITH MIXING VALVE OR APPROVED EQUAL	1 1/2" x 1 1/2" 17GA CAST BRASS CHROME PLATED P-TRAP W/ CO PLUG, EQUAL TO MCGUIRE B8912 OR APPROVED EQUAL	1/2" COMPRESSION x 3/8" O.D. CHROME PLATED LEAD FREE QUARTER-TURN, COMPRESSION STRAIGHT/ANGLE VALVE, CHROME PLATED COPPER RISER AND SHALLOW CHROME PLATED ESCUTCHEON EQUAL TO MCGUIRE LFBV09R36;SE058	Z1231-(D) CONCEALED BY ZURN OR APPROVED EQUAL	WALL MOUNTED HANDICAP ACCESSIBLE HEIGHT
UR-1	URINAL (HANDICAP ACCESSIBLE)	ZURN OR APPROVED EQUAL	QWNI-FLO Z5765-U OR APPROVED EQUAL	1 1/2"	3/4"	N/A	2"	2"	1.0 GPF	ZURN ZEMS195AV-WST-HW6-MJ OR APPROVED EQUAL	INTEGRAL	-	N/A	WALL MOUNTED HANDICAP ACCESSIBLE HEIGHT
SK-1	HAND SINK	ADVANCE TABCO OR APPROVED EQUAL	7-PS-87 OR APPROVED EQUAL	16" x 16"	1/2"	1/2"	2"	1/2"	1.5 GPM	ADVANCE TABCO K-316 OR APPROVED EQUAL WITH TMW-1	1 1/2" x 1 1/2" 17GA CAST BRASS CHROME PLATED P-TRAP W/ CO PLUG, EQUAL TO MCGUIRE B8912	1/2" COMPRESSION x 3/8" O.D. CHROME PLATED LEAD FREE QUARTER-TURN, COMPRESSION STRAIGHT/ANGLE VALVE, CHROME PLATED COPPER RISER AND SHALLOW CHROME PLATED ESCUTCHEON EQUAL TO MCGUIRE LFBV09R36;SE058	N/A	
SK-2	THREE COMPARTMENT SINK	ADVANCE TABCO OR APPROVED EQUAL	REGALINE 940 SERIES 94-63-54-24-L OR APPROVED EQUAL	30" x 18" x 16"	1/2"	1/2"	2"	1/2"	1.5 GPM	ADVANCE TABCO DTA-53 OR APPROVED EQUAL	1 1/2" x 1 1/2" 17GA CAST BRASS CHROME PLATED P-TRAP W/ CO PLUG, EQUAL TO MCGUIRE B8912	1/2" COMPRESSION x 3/8" O.D. CHROME PLATED LEAD FREE QUARTER-TURN, COMPRESSION STRAIGHT/ANGLE VALVE, CHROME PLATED COPPER RISER AND SHALLOW CHROME PLATED ESCUTCHEON EQUAL TO MCGUIRE LFBV09R36;SE058	N/A	
SK-3	BAR SINK	ELKAY OR APPROVED EQUAL	-	16" x 16"	1/2"	1/2"	2"	1/2"	1.5 GPM	-	1 1/2" x 1 1/2" 17GA CAST BRASS CHROME PLATED P-TRAP W/ CO PLUG, EQUAL TO MCGUIRE B8912	1/2" COMPRESSION x 3/8" O.D. CHROME PLATED LEAD FREE QUARTER-TURN, COMPRESSION STRAIGHT/ANGLE VALVE, CHROME PLATED COPPER RISER AND SHALLOW CHROME PLATED ESCUTCHEON EQUAL TO MCGUIRE LFBV09R36;SE058	N/A	
EW-1	ELECTRIC WATER COOLER	ELKAY	LZSTLGBLC	36-3/4" x 19" x 25-5/16"	1/2"	N/A	1/2"	1/2"	8 GPH	N/A	1 1/2" x 1 1/2" 17GA CAST BRASS CHROME PLATED P-TRAP W/ CO PLUG, EQUAL TO MCGUIRE B8902	1/2" COMPRESSION x 3/8" O.D. CHROME PLATED LEAD FREE QUARTER-TURN, COMPRESSION STRAIGHT/ANGLE VALVE, CHROME PLATED COPPER RISER AND SHALLOW CHROME PLATED ESCUTCHEON EQUAL TO MCGUIRE LFBV09R36;SE058	N/A	WITH WATERSENTRY VII, 1500 GALLON CAPACITY FILTRATION SYSTEM NSF/ANSI 42 & 53 COMPLIANT, WITH FLEXI-GUARD STREAM SAVER BUBBLER, ADA COMPLIANT.
MSB-1	SERVICE SINK	MUSTEE OR APPROVED EQUAL	24" x 24"	24" x 24"	1/2"	1/2"	3"	2"	UNRESTRICTED	MOEN 8124 OR APPROVED EQUAL	3"	N/A	N/A	WALL GUARDS, MOP BRACKET, HOSE BRACKET, FAUCET BRASS CONSTRUCTION, CHROME FINISH, VACUUM BREAKER, INTEGRAL CHECK STOPS, CERAMIC DISC CARTRIDGE, 1/4 TURN OPERATION
HB-1	HOSE BIBB	BRADLEY	7910	1/2"	1/2"	N/A	N/A	N/A	NOT RESTRICTED	SINGLE SUPPLY VALVE WITH VACUUM BREAKER	N/A	N/A	N/A	
WH-1	WALL HYDRANT	ZURN	Z-1320-EZ	FIELD VERIFY	3/4"	N/A	N/A	N/A	N/A	SINGLE SUPPLY VALVE WITH VACUUM BREAKER	N/A	N/A	N/A	

NOTES : PLUMBING FIXTURE SELECTION SHALL CONFORM TO OWNER'S STANDARDS. COORDINATE W/ INTERIOR DESIGNER AND OWNER. ALL PLUMBING FIXTURES, FAUCETS BE FIELD ADJUSTED TO INSURE PROPER AND CODE COMPLIANT OPERATION FOR TEMPERATURE AND FLOW. ALL PUBLIC LAW FAUCETS SHALL BE FIELD ADJUSTED TO LIMIT THE HOT WATER TEMPERATURE FROM THE FAUCET TO A MAXIMUM OF 110°F. PROVIDE SERVICE STOPS FOR ALL FIXTURES. ALL EXPOSED WATER AND WASTE PIPING ASSOCIATED WITH FIXTURES SHALL BE CHROME FINISH. PROVIDE ALL SUPPLIES, SERVICE STOPS, TAILPIECES AND TRAPS FOR FIXTURES AS REQUIRED. PROVIDE ALL FINAL CONNECTIONS. PROVIDE CONCEALED FIXTURE CARRIERS FOR ALL WALL MOUNTED PLUMBING FIXTURES. FIXTURE CARRIERS SHALL BE AS RECOMMENDED BY THE PLUMBING FIXTURE MANUFACTURERS AND SHALL BE BY WADE, SMITH OR ZURN. PROVIDE INSULATION LAY GUARD FROM IPS CORPORATION FOR ALL ADA SINKS.

DOMESTIC HOT WATER HEATER SCHEDULE																								
TAG NO	TYPE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	GAS INPUT (BTU/HR) 3.5"-10.5"WC	EFFICIENCY (%)	FLOW RATE (GPH)	SIZE	WEIGHT	CONNECTIONS					FORCED DRAFT DIRECT VENT (0" CLEARANCE TO COMBUSTIBLES)		POWER SUPPLY			WARRANTY		REMARKS			
									CW (NPT)	HW (NPT)	HW (NPT)	NG (NPT)	CONDENSATE OUTLET (NPT)	EXHAUST (2")	INTAKE (2")	AMP	VOLTS	Hz	PHASE	TANK		PARTS	YEAR	YEARS
HWH-1	TANK/GAS FIRED	BRADWHITE OR EQUAL	EF-60T-12 SE-3N	145,000	80	145 @ 100°F TEMP RISE	28-1/4"(W) 56-3/8"(H)	570 LBS	1/2"	1/2"	N/A	3/4"	3/4"	3" @ 60° CPVC (ELBOW EQUAL 5')	3" @ 60° CPVC (ELBOW EQUAL 5')	15	120	60	1	5	1	5	1	PROVIDE WITH SINGLE UNIT CONDENSATE NEUTRALIZER

NOTES : HOT WATER HEATER SHALL BE SET AT 140 F° FOR. PROVIDE STARTUP BY FACTORY CERTIFIED TECHNICIAN.

TEMPERATURE MIXING VALVE						
TAG NO	LO (GPM)	MANUFACTURER	MODEL	INLETS	OUTLET	REMARKS
TMW-1	0.25GPM	LEONARD	170-LF-BP-8RKT	3/8"	3/8"	ADJUST VALVE SETTINGS FOR PROPER OPERATION LOCK IN PLACE

GREASE INTERCEPTOR SCHEDULE					
TAG NO	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	GPM	GREASE CAPACITY (LBS)	REMARKS
GI-1	SHER OR APPROVED EQUAL	GB-50	50	249	THE GREASE INTERCEPTOR SHALL BE RECESSED IN THE FLOOR, PROVIDE EXTENSION COLLAR, FIELD VERIFY LENGTH, AND PROVIDE ANCHOR KIT AK-1

NOTE:

EXPANSION TANK SCHEDULE						
TAG NO	TYPE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	TANK VOLUME (GAL.)	ACCEPTANC E VOLUME (GAL.)	REMARKS
ET-1	ST-12	AMTROL	ST-12-C	4.4	3.2	PRE-CHARGE EQUAL TO THE STATIC SUPPLY PRESSURE AT THE WATER HEATER

**PLUMBING LEGEND & ABBREVIATIONS**

-----	PIPING/EQUIPMENT TO BE REMOVED	AFB	ABOVE FINISHED FLOOR
---	CW COLD WATER ABOVE FLOOR	ARCH	ARCHITECT
---	CW COLD WATER BELOW FLOOR	CFH	CUBIC FEET PER HOUR
---	HW HOT WATER ABOVE FLOOR	CLG	CEILING
---	SAN SANITARY WASTE ABOVE FLOOR	CLN	CLEANOUT
---	SAN SANITARY WASTE BELOW FLOOR	CONN	CONNECTION
---	V VENT ABOVE FLOOR	CONT	CONTINUATION
---	V VENT BELOW FLOOR	CTE	CONNECT TO EXISTING
---	FCD FLOOR CLEANOUT	DWG	DRAWING
---	FPCO GRADE CLEANOUT	EC	ELECTRICAL CONTRACTOR
---	CO CLEANOUT	ELEC	ELECTRICAL
---	WPCC WALL CLEANOUT - PROVIDE ACCESS PANEL	ETR	EXISTING TO REMAIN
---	CAPPED PIPE	ETBR	EXISTING TO BE REMOVED
---	UNION	EX	EXISTING
---	PIPE BREAK	FCO	FLOOR CLEANOUT
---	PIPE SLEEVE	FD	FLOOR DRAIN
---	BALL VALVE	FFE	FINISHED FLOOR ELEVATION
---	RPBFP REDUCED PRESSURE ZONE BACKFLOW PREVENTER	FT	FOOT/FEET
---	ELBOW UP OR RISE	GC	GENERAL CONTRACTOR
---	ELBOW DOWN OR DROP	GPM	GALLON PER MINUTE
---	TEE DROP	HB	HOSE BIBB
---	OPEN-END DRAIN, P-TRAP	INV. EL	INVERT ELEVATION
---	WH/HB WALL HYDRANT/HOSE BIBB	LAV.	LAVATORY
---	CTE CONNECT TO EXISTING	LPC	LIMIT OF PLUMBING CONTRACT
---	REMOVALS EXTENT	MIN	MINIMUM
---	FD FLOOR DRAIN	MAX	MAXIMUM
---		NIC	NOT IN CONTRACT
---		NTS	NOT TO SCALE
---		PC	PLUMBING CONTRACTOR
---		TP	TRAP PRIMER
---		VTR	VENT THRU ROOF

MATERIAL SPECIFICATION			
SERVICES	CAST IRON - HUB & SPOOT PIPE	CAST IRON - HUBLESS (NO-HUB) PIPE	REMARKS
COLD WATER	ABOVE GROUND		W/ 1/2" FIBERGLASS INSULATION
	BELOW GROUND		
HOT WATER	ABOVE GROUND		W/ 1/2" FIBERGLASS INSULATION
	BELOW GROUND		
SANITARY WASTE	ABOVE GROUND		STORM W/ 1/2" FIBERGLASS INSULATION
	BELOW GROUND		
SANITARY VENT	ABOVE GROUND		
	BELOW GROUND		
INDIRECT WASTE	INDOOR		
	OUTDOOR		
NATURAL GAS	INDOOR		
	OUTDOOR		COOROSION RESISTANT COATING

WATER HAMMER SCHEDULE			
TAG NO	FIXTURE UNIT RATING	MANUFACTURER	MODEL
WHA-A'	1-11	J.R. SMITH	5005
WHA-B'	12-32	J.R. SMITH	5010
WHA-C'	33-60	J.R. SMITH	5020
WHA-D'	61-113	J.R. SMITH	5030
WHA-E'	114-154	J.R. SMITH	5040
WHA-F'	155-330	J.R. SMITH	5050

NOTES : WATER HAMMER ARRESTORS SHALL BE BY PRECISION, J.R. SMITH, WATTS, SIOUX CHIEF OR APPROVED EQUAL.

DRAIN SCHEDULE					
TAG NO	TYPE	MANUFACTURER	MODEL	SIZE	REMARKS
FD-1	FLOOR DRAIN	ZURN	Z415-3NH-	3"	PROVIDE TRAP PRIMER STATION AND CONNECTION TO DRAIN
FD-2	FLOOR DRAIN	ZURN	Z415-3NH-SBZ1	3"	PROVIDE TRAP PRIMER CONNECTION, AND SEDIMENT BUCKET
FD-3	FLOOR DRAIN	ZURN	Z415-4NH-	4"	
FCD-1	FLOOR CLEANOUT	ZURN	Z1400-BZ	4"	

NOTES : COORDINATE FLASHING REQUIREMENTS WITH G.C. PROVIDE ALL FLOOR DRAINS WITH TRAP PRIMING SYSTEM.

**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**  
25 BRYANT'S LANE  
TYNGSBOROUGH, MA 01879

**PLUMBING LEGENDS, NOTES, & ABBREVIATIONS**

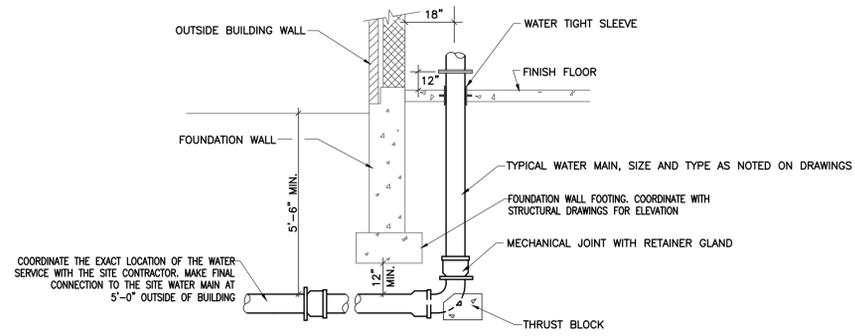
Revisions:

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**BIDDING DOCUMENTS**

Date: 10/24/2018  
Project Number: 17009  
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Drawn By: GGB  
Scale: NTS

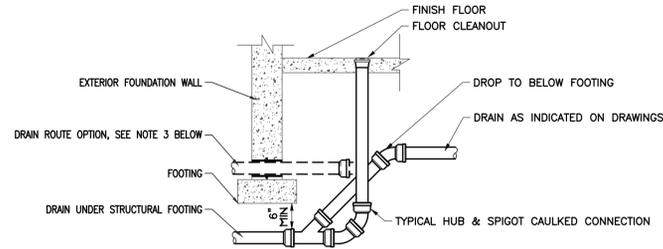
**P0-01**



**NOTE:**

1. ALL UNDERGROUND WORK SHALL BE CAREFULLY COORDINATED WITH THE STRUCTURAL ENGINEER AND THE GENERAL CONTRACTOR FOR THE COORDINATION OF ALL FOUNDATION WALLS, FOOTINGS AND PIERS. ALL FOUNDATION PIERS SHALL BE AVOIDED WHEN INSTALLING THE UNDERGROUND WORK

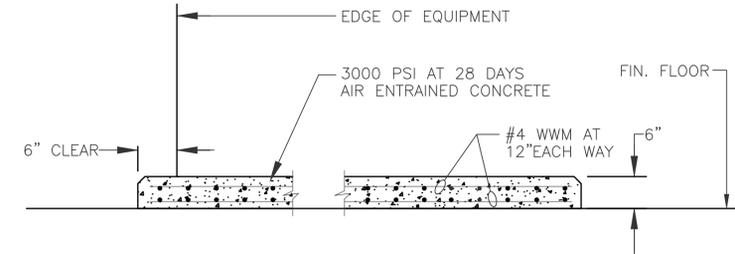
**1 WATER SERVICE DETAIL**  
P002 NOT TO SCALE



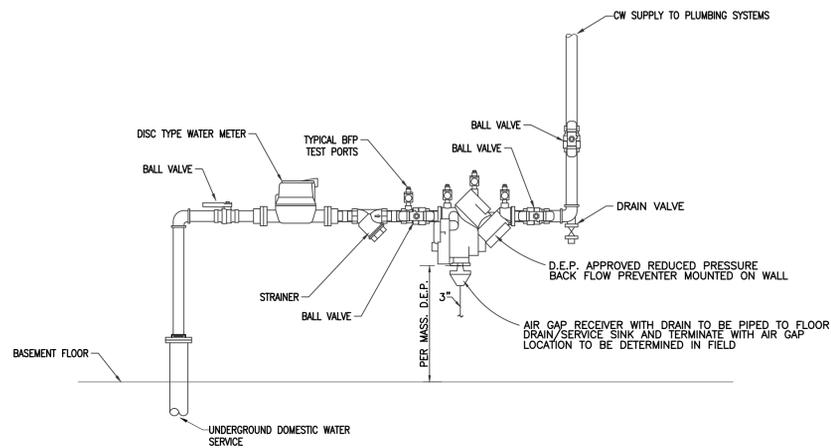
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**4 TYPICAL DRAIN UNDER FOUNDATION WALL**  
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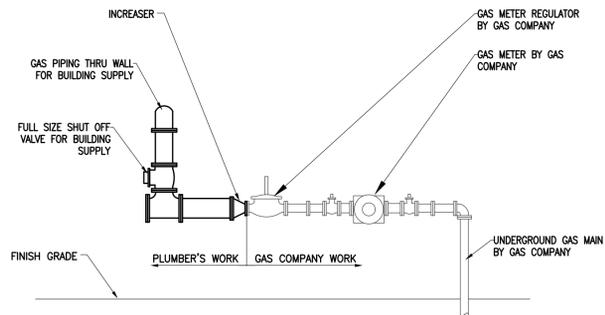
**7 EQUIPMENT CONCRETE PAD DETAIL**  
P002 NOT TO SCALE



**NOTES :**

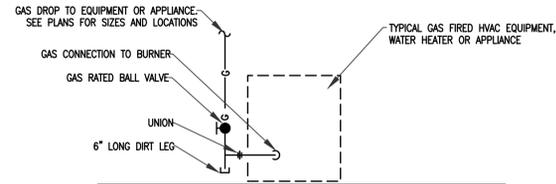
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3. PROVIDE 1'-0" OF CLEARANCE BETWEEN WATER METER AND WALL.
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7. TEST AND CERTIFY EACH BACKFLOW PREVENTER INSTALLATION.
8. FIELD VERIFY WATER PRESSURE AND

**2 DOMESTIC WATER METER DETAIL**  
P002 NOT TO SCALE



1. THE GAS SYSTEM PRESSURE WILL BE MIN. OF 7" W.C. INSIDE THE BUILDING

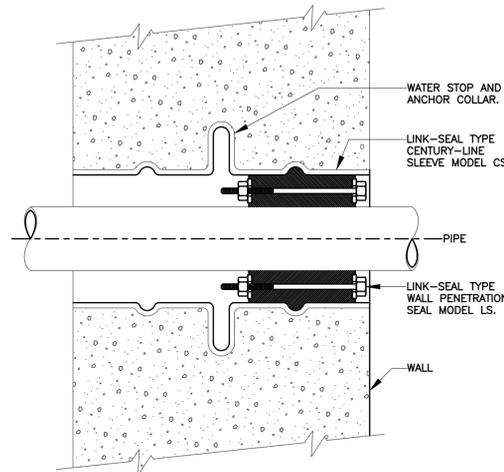
**3 GAS METER DETAIL**  
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**NOTE:**

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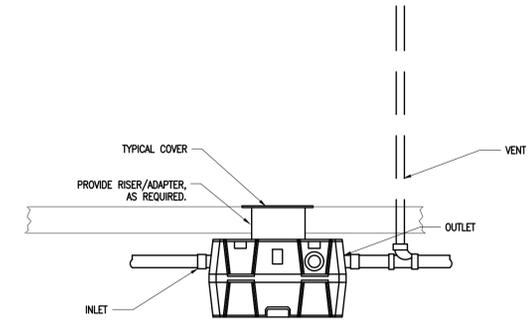
**5 TYPICAL GAS CONNECTION TO EQUIPMENT**  
P002 NOT TO SCALE



**NOTE:**

1. MODULAR SEAL SHALL BE PROVIDED FOR ALL WATER OR SANITARY AND STORM PIPING PENETRATIONS THRU FLOOR AND WALL

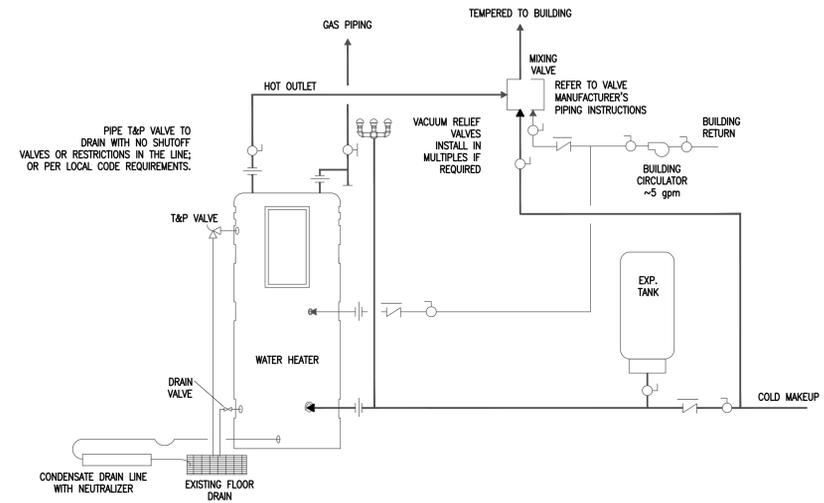
**6 MODULAR COMPRESSION PIPE SEAL & SLEEVE DETAIL**  
P002 NOT TO SCALE



**NOTES :**

1. PROVIDE SIGN NEAR GREASE INTERCEPTORS AS REQUIRED PER MASSACHUSETTS STATE PLUMBING 248CMR 10.09 (2)(m)3.
2. GREASE INTERCEPTOR SHALL BE PROVIDED WITH ALL REQUIRED SUPPORT. FINAL LOCATION SHALL BE DETERMINED IN THE FIELD. PROVIDE MANUFACTURER ANCHOR KIT.

**8 TYPICAL GREASE TRAP DIAGRAM**  
P002 NOT TO SCALE



**9 TYPICAL GAS FIRED HOT WATER HEATER**  
P002 NOT TO SCALE

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FIRST PARISH  
MEETING HOUSE  
INTERIOR  
RENOVATION



TOWN OF  
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PLUMBING  
DETAILS

Revisions:

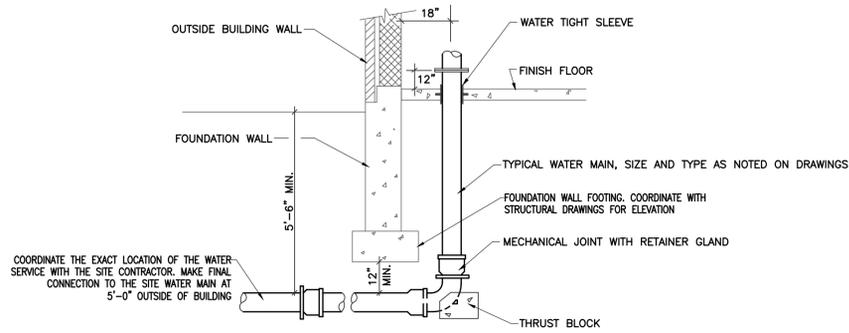
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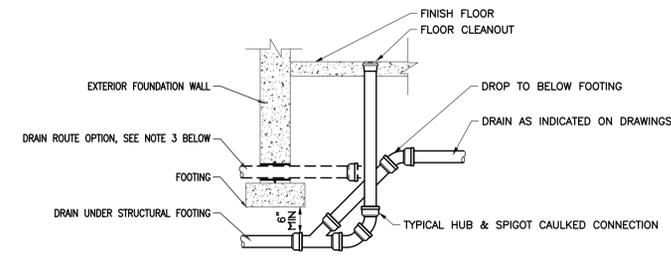
P0-02



COORDINATE THE EXACT LOCATION OF THE WATER SERVICE WITH THE SITE CONTRACTOR. MAKE FINAL CONNECTION TO THE SITE WATER MAIN AT 5'-0" OUTSIDE OF BUILDING

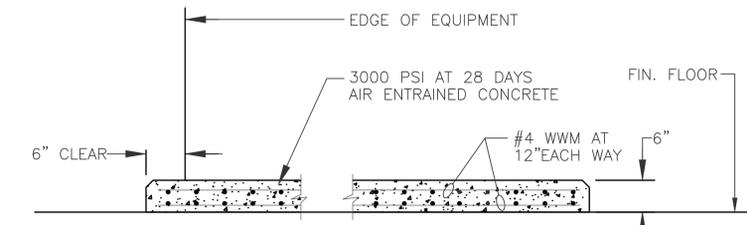
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1 WATER SERVICE DETAIL  
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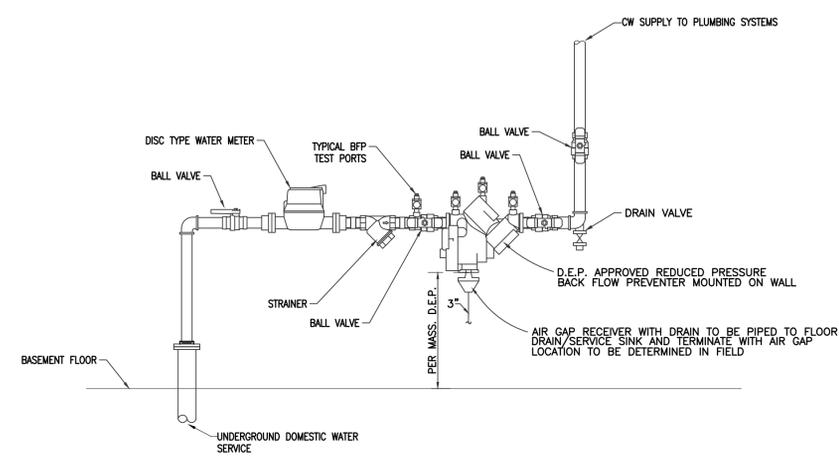


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4 TYPICAL DRAIN UNDER FOUNDATION WALL  
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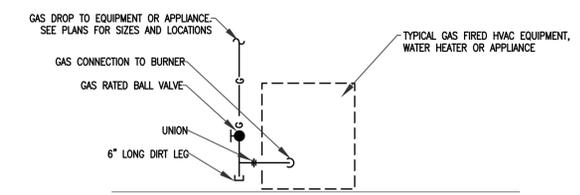


7 EQUIPMENT CONCRETE PAD DETAIL  
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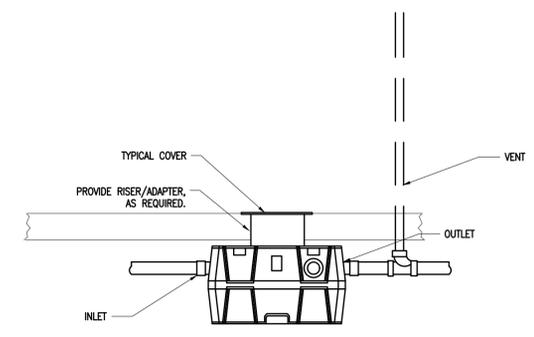
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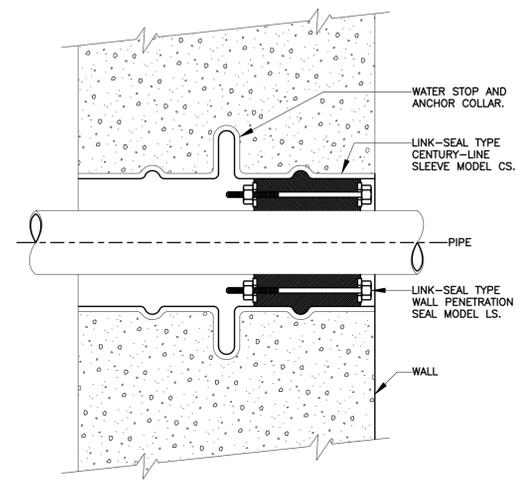
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5 TYPICAL GAS CONNECTION TO EQUIPMENT  
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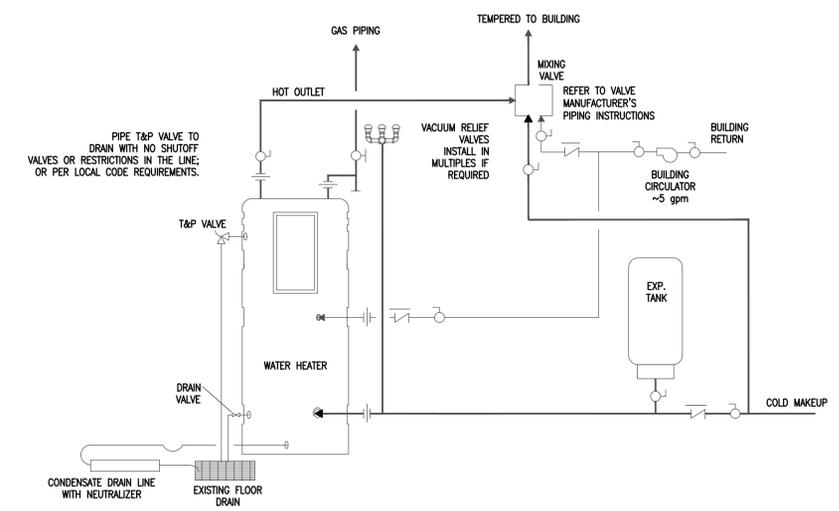
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8 TYPICAL GREASE TRAP DIAGRAM  
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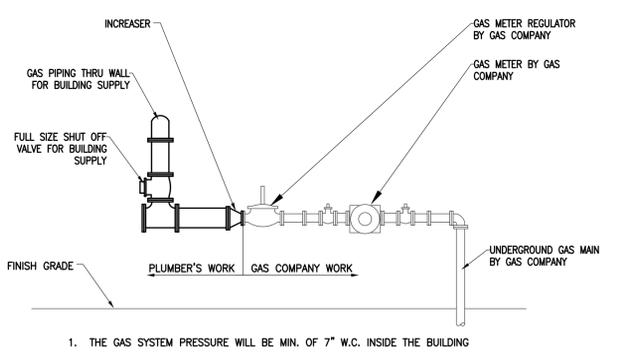


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9 TYPICAL GAS FIRED HOT WATER HEATER  
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1. THE GAS SYSTEM PRESSURE WILL BE MIN. OF 7" W.C. INSIDE THE BUILDING

3 GAS METER DETAIL  
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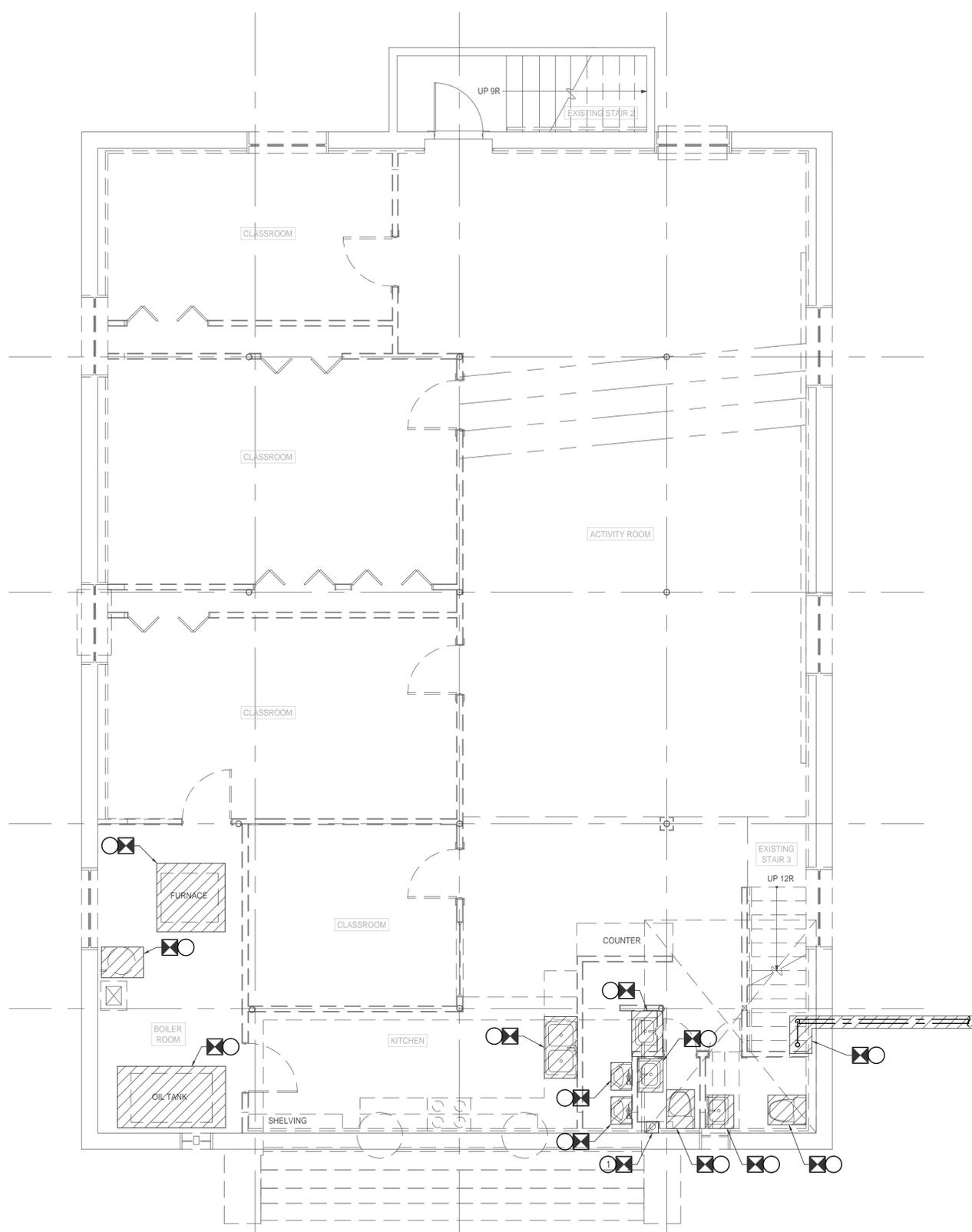
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Scale: NTS

P0-03



**DEMOLITION DRAWING NOTES:**

1. PLUMBING CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL EXISTING ELEMENTS OF CONSTRUCTION PRIOR TO COMMENCING DEMOLITION WORK. ALL WORK SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF BUILDING CODE, AND HEALTH REGULATIONS AND BE PERFORMED IN SUCH A MANNER AS TO ENSURE HUMAN SAFETY.
2. MAINTAIN THE INTEGRITY OF ALL EQUIPMENT AND SYSTEMS LOCATED OUTSIDE THE WORK AREA. PROVIDE ALL ADDITIONAL PIPING, FITTINGS, ACCESSORIES, ETC. REQUIRED TO EXTEND AND CONNECT ALL EQUIPMENT IN ORDER TO PROVIDE COMPLETE AND OPERATIONAL PLUMBING SYSTEMS.
3. ALL ITEMS TO BE RE-USED SHALL BE CAREFULLY REMOVED FREE OF DAMAGE AND STORED IN A SECURE LOCATION.
4. ALL EXISTING PLUMBING PIPING TO BE REMOVED SHALL BE CAPPED AT POINT OF ORIGIN.
5. ALL DEMOLITION SHALL BE PERFORMED IN SUCH MANNER AS TO MINIMIZE DAMAGE TO CONSTRUCTION THAT IS TO REMAIN.
6. PLUMBING CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGER/OWNER ON SHUTDOWN TIME WHEN WORKING ON EXISTING SYSTEMS.
7. REMOVAL OF EXISTING PLUMBING FIXTURES/EQUIPMENT SHALL INCLUDE, BUT NOT LIMITED TO, UTILITY PIPING, FITTINGS, ACCESSORIES AND SUPPORT. REMOVAL, WHERE NECESSARY, SHALL BE COORDINATED WITH OTHER TRADES.
8. ALL WORK RELATED TO DEMOLITION SHALL BE CAREFULLY COORDINATED WITH OWNER, ARCHITECTURAL DRAWINGS, AND OTHER TRADES.

**KEYED DEMOLITION NOTES: #**

1. PROVIDE COMPLETE REMOVAL OF THE EXISTING PLUMBING SANITARY AND DOMESTIC WATER PIPING BACK TO MAIN SERVICE ENTRANCE(S). THE REMOVAL SHALL INCLUDE ALL PIPING ACCESSORIES SUCH AS VALVES, FITTINGS, HANGERS AND SUPPORTS.
2. REMOVE EXISTING SANITARY VENT PIPING AND CAP VENT STACK WATERTIGHT.
3. DISCONNECT AND REMOVE ALL PLUMBING FIXTURES AND ASSOCIATED PIPING.
4. REMOVE EXISTING DOMESTIC WATER SERVICE AS INDICATED.
5. DISCONNECT FUEL SUPPLY TO EXISTING HVAC EQUIPMENT AND REMOVE PIPING AS WELL AS THE FUEL STORAGE TANK AND ACCESSORIES.



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**FIRST PARISH  
 MEETING HOUSE  
 INTERIOR  
 RENOVATION**



**TOWN OF  
 TYNGSBOROUGH**  
 25 BRYANTS LANE  
 TYNGSBOROUGH, MA 01879

Drawing Title:

**PLUMBING  
 BASEMENT LEVEL  
 DEMOLITION PLAN**

Revisions:

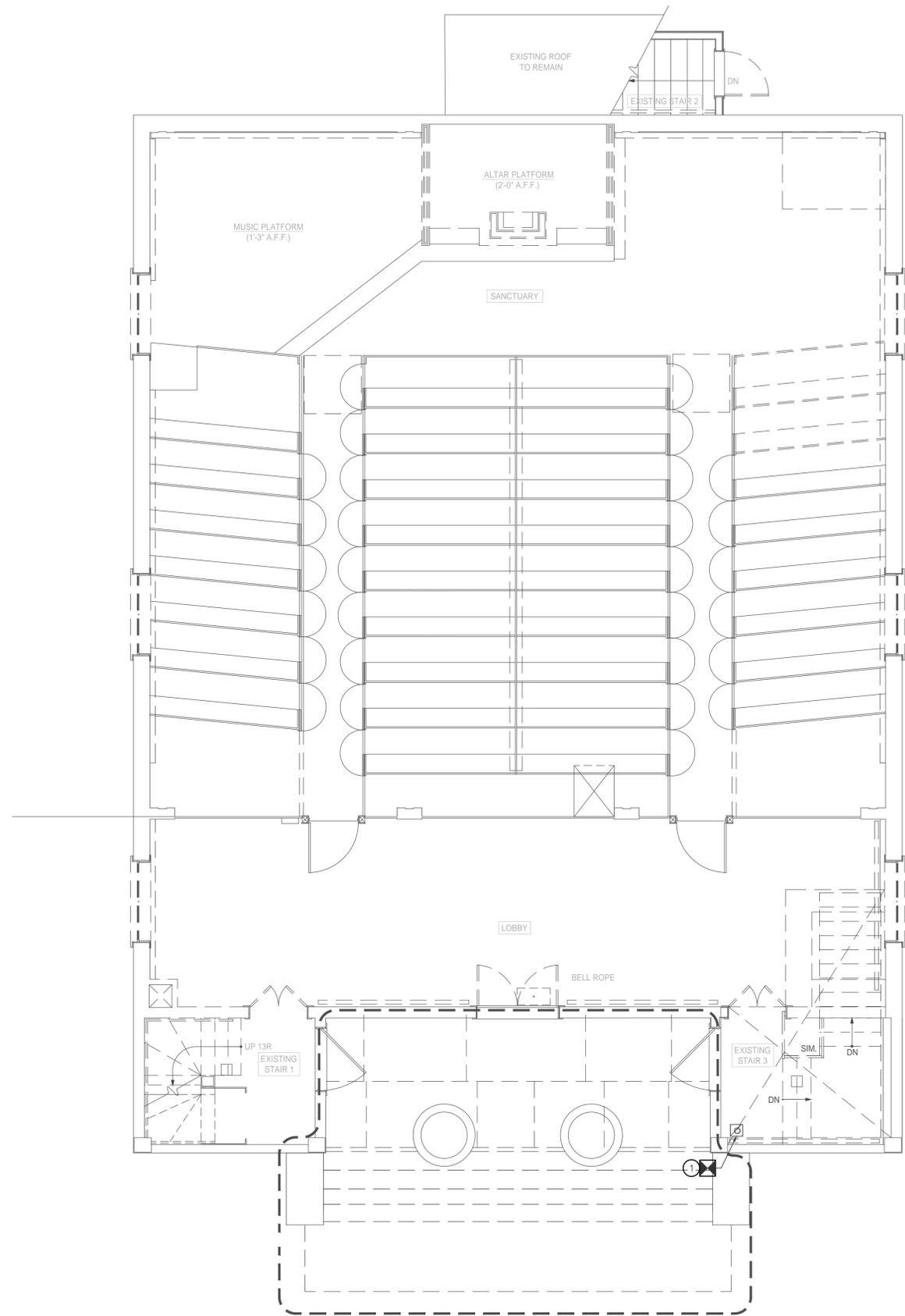
**NOT FOR  
 CONSTRUCTION**

Submission:

**BIDDING  
 DOCUMENTS**

Date: 10/24/2018  
 Project Number: 17009  
 Project Manager: WJS  
 Drawn By: GGB  
 Scale: 1/4"=1'-0"

**P1-00**



**DEMOLITION DRAWING NOTES:**

1. PLUMBING CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL EXISTING ELEMENTS OF CONSTRUCTION PRIOR TO COMMENCING DEMOLITION WORK. ALL WORK SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF BUILDING CODE, AND HEALTH REGULATIONS AND BE PERFORMED IN SUCH A MANNER AS TO ENSURE HUMAN SAFETY.
2. MAINTAIN THE INTEGRITY OF ALL EQUIPMENT AND SYSTEMS LOCATED OUTSIDE THE WORK AREA. PROVIDE ALL ADDITIONAL PIPING, FITTINGS, ACCESSORIES, ETC. REQUIRED TO EXTEND AND CONNECT ALL EQUIPMENT IN ORDER TO PROVIDE COMPLETE AND OPERATIONAL PLUMBING SYSTEMS.
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8. ALL WORK RELATED TO DEMOLITION SHALL BE CAREFULLY COORDINATED WITH OWNER, ARCHITECTURAL DRAWINGS, AND OTHER TRADES.

**KEYED DEMOLITION NOTES:** #

1. REMOVE EXISTING SANITARY VENT PIPING.



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Drawing Title:

**PLUMBING  
FIRST FLOOR  
DEMOLITION PLAN**

Revisions:

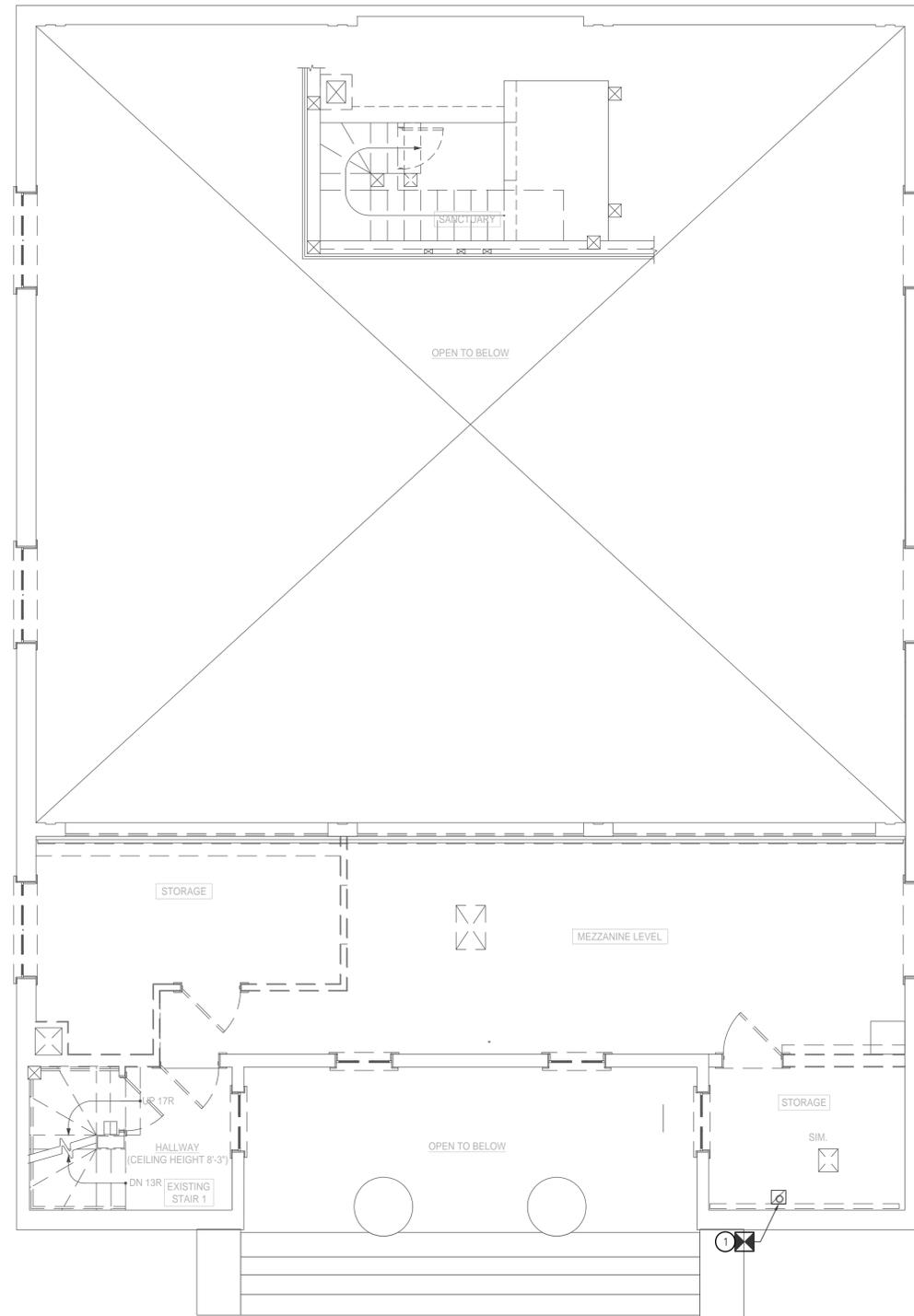
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**P1-01**



**DEMOLITION DRAWING NOTES:**

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Drawing Title:

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MEZZANINE LEVEL  
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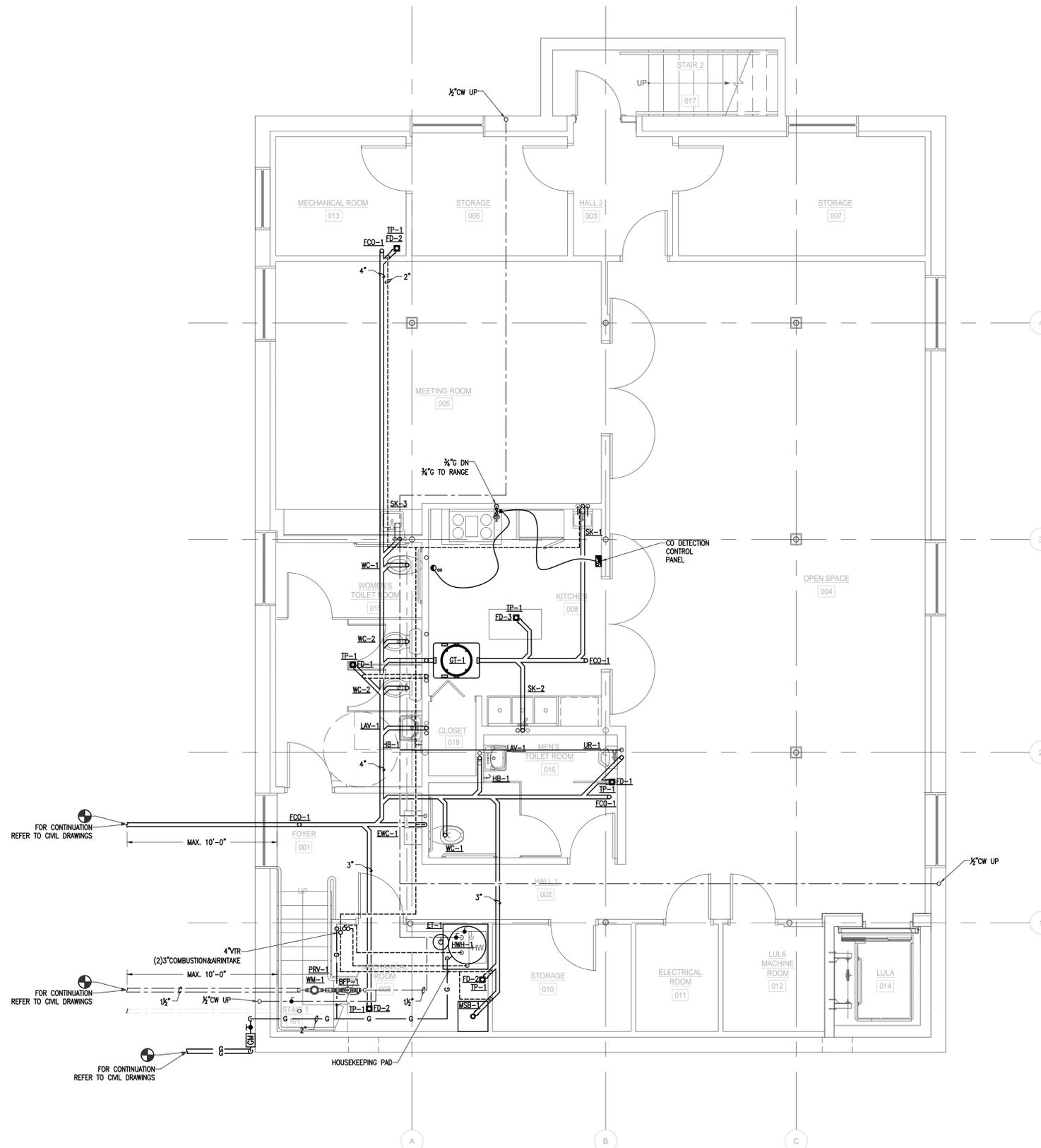
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**P1-02**



**NEW WORK DRAWING NOTES:**

1. VERIFY ALL INVERTS, PIPING ROUTES PRIOR TO INSTALLATION. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS REQUIRED TO MAKE SYSTEMS OPERATIONAL.
2. ALL PIPING IS DIAGRAMMATIC, EXACT LOCATION TO BE DETERMINED IN THE FIELD.
3. WHERE THE INSTALLATION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE INSTALLATION.
4. THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF GOVERNING BODIES AND AUTHORITIES HAVING JURISDICTION REGARDING THE INSTALLATION OF ALL PLUMBING SYSTEMS.
5. COORDINATE MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES WITH THE ARCHITECTURAL DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS.
6. COORDINATE LOCATION ALL PLUMBING PIPING WITH THE OTHER TRADES. PROVIDE ALL NECESSARY OFFSETS TO PREVENT CONFLICTS WITH OTHER TRADES.
7. PROVIDE ACCESS PANELS FOR ALL INACCESSIBLE PLUMBING EQUIPMENT REQUIRING REGULAR MAINTENANCE OR OPERATION. FURNISH ACCESS PANELS IN ADEQUATE SIZE AND COORDINATE LOCATIONS WITH THE GENERAL CONTRACTOR.
8. ROUGH-IN ALL WATER AND GAS PIPING TO EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
9. INSTALL APPROVED DIELECTRIC ISOLATORS AT ALL DISSIMILAR METAL CONNECTIONS.
10. PROVIDE INDIVIDUAL ISOLATION VALVES TO EACH PLUMBING FIXTURE. ENSURE ALL VALVES ARE PROPERLY TAGGED AND RECORDED IN A CHART.
11. PROVIDE ALL SLEEVES, CORE DRILLING, WATER, SMOKE AND FIRE SEALING OF PIPING PENETRATIONS THROUGH WALLS AND FLOORS.
12. PROVIDE WATER HAMMER ARRESTORS. SIZE AND EXACT LOCATION AS RECOMMENDED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
13. THE PLUMBING CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF PLUMBING DRAWINGS, AND ACCURATELY MARK AND RECORD THE PLUMBING SYSTEM INSTALLATION LAYOUT. AFTER THE JOB COMPLETION ALL PLANS SHALL BE SUBMITTED AS AN "AS-BUILTS" TO THE OWNER.
14. UPON COMPLETION OF ALL WORK, FURNISH IN DUPLICATE, CERTIFICATIONS OF INSPECTIONS FROM THE MANUFACTURERS STATING THAT AUTHORIZED FACTORY REPRESENTATIVE HAVE INSPECTED AND TESTED THE OPERATION OF THEIR RESPECTIVE EQUIPMENT.

**KEYED NOTES: #**

1. PROVIDE GAS FIRED WATER HEATER AS SPECIFIED WITH ALL ASSOCIATED COMPONENTS FOR COMPLETE AND OPERATIONAL DOMESTIC HOT WATER SYSTEM WITH MEANS TO MAINTAIN THE SYSTEMS TEMPERATURE VIA RECIRCULATION SYSTEM WITH THE ASSOCIATED PUMP, AQUASTAT CHECK AND BALANCING VALVES. THE SYSTEM TEMPERATURE LOOP SHALL BE LIMITED AT 120°F VIA MASTER THERMOSTATIC VALVE.
2. PROVIDE PLUMBING FIXTURES AS INDICATED AND EXTEND AND CONNECT TO EXISTING SANITARY, VENT AND DOMESTIC WATER PIPING. COORDINATE WALL PARTITION REQUIREMENTS TO ROUTE PLUMBING PIPING WITH GENERAL CONTRACTOR AND ARCHITECT. PROVIDE SERVICE VALVES AT EACH FIXTURE ABOVE THE SUSPENDED CEILING.
3. PROVIDE CONNECTION TO THE NEW WATER SERVICE. EXTEND AND CONNECT THE DOMESTIC WATER DISTRIBUTION SYSTEM TO ALL PLUMBING FIXTURES REQUIRING CONNECTION.
3. PROVIDE CONNECTION TO THE NEW SANITARY SEWER. EXTEND AND CONNECT THE SANITARY DISTRIBUTION SYSTEM TO ALL PLUMBING FIXTURES REQUIRING CONNECTION.
4. PROVIDE CONNECTION TO THE NEW NATURAL GAS SERVICE. EXTEND AND CONNECT THE GAS DISTRIBUTION SYSTEM TO ALL GAS FIRED APPLIANCES, REQUIRING CONNECTION.
5. PROVIDE CO DETECTION SYSTEM FOR COMMERCIAL KITCHEN HOOD. PROVIDE GREASE INTERCEPTOR AND CONNECT FLOOR DRAINS, KITCHEN SINK AND DISHWASHER.



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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



**TOWN OF TYNGSBOROUGH**  
25 BRYANTS LANE  
TYNGSBOROUGH, MA 01879

Drawing Title:

**PLUMBING BASEMENT LEVEL NEW WORK PLAN**

Revisions:

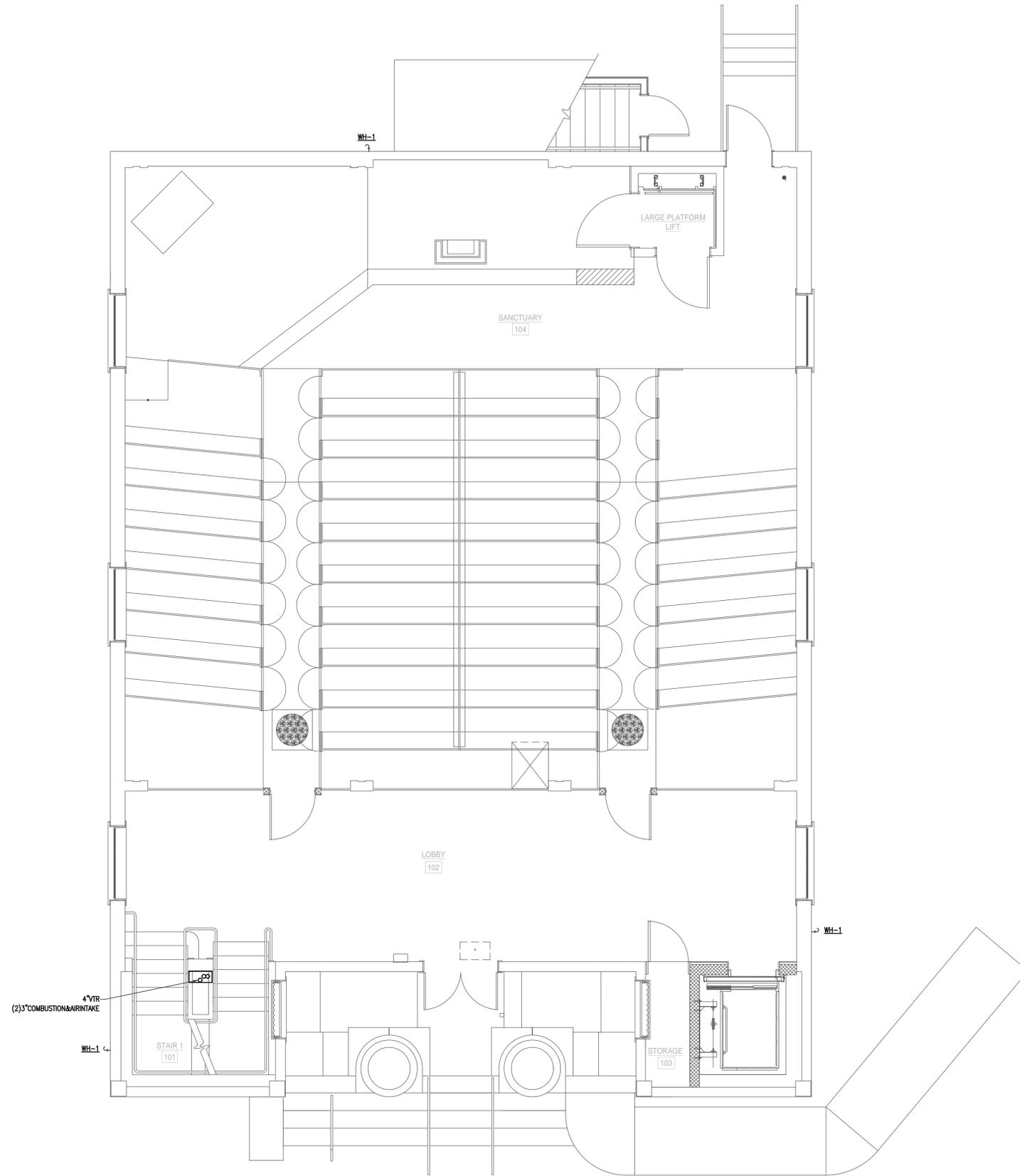
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**P2-00**



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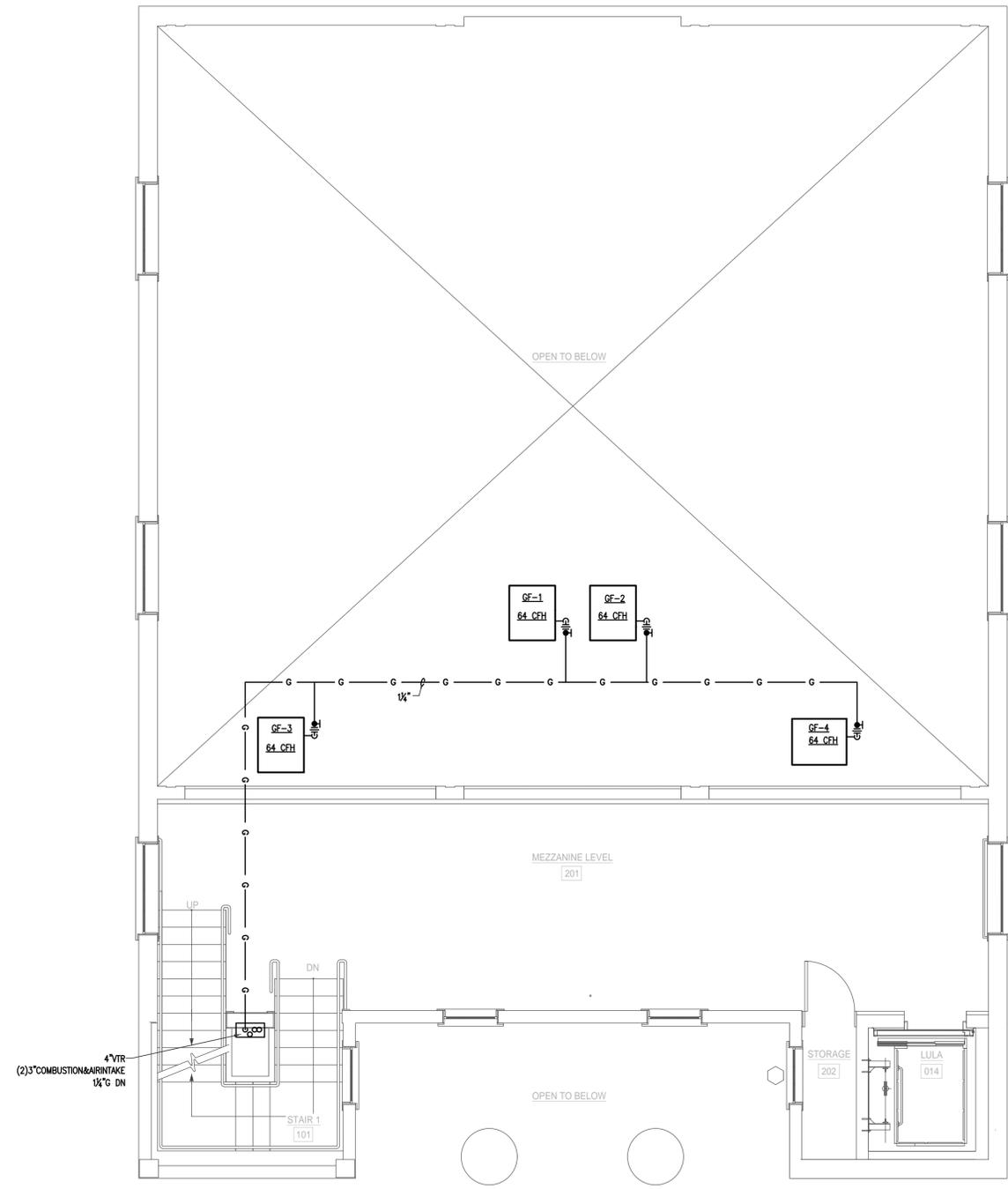
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**P2-01**



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**P2-02**

ABBREVIATIONS	
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH.	ARCHITECT
ATC	AUTOMATIC TEMPERATURE CONTROL
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CLOSED
CA	COMBUSTION AIR
CAP	CAPACITY
CAR	COMBUSTION AIR RELIEF
CAS	COMBUSTION AIR SUPPLY
CC	COOLING COIL
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CO	CLEAN OUT
CONN.	CONNECT
CONTR.	CONTRACTOR
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE (°F)
DDC	DIRECT DIGITAL CONTROL
DIA.	DIAMETER
DN	DOWN
DO	DIGITAL OUTPUT
DR	DRAIN
DWG	DRAWING
EA	EACH
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EG	EXHAUST AIR GRILLE
EMS	ENERGY MANAGEMENT SYSTEM
ER	EXHAUST AIR REGISTER
ERV	EXHAUST ROOF VENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
FA	FREE AREA
FAI	FRESH AIR INTAKE
FLA	FULL LOAD AMPS
FLD	FLOOR DRAIN
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FSD	COMBINATION FIRE AND SMOKE DAMPER
FT	FEET
GAL	GALLONS
GC	GENERAL CONTRACTOR
GE	GENERAL EXHAUST
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HE	HOOD EXHAUST
HEF	HOOD EXHAUST FAN
HP	HORSE POWER
HSF	HOOD SUPPLY FAN
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
IH	INTAKE HOOD
IN	INCHES
ID	INSIDE DIAMETER
KE	KITCHEN EXHAUST
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LD	LOUVERED DOOR
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSANDS OF BRITISH THERMAL UNITS PER HOUR
MECH	MECHANICAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER

ABBREVIATIONS	
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
ATC	ROOF EXHAUST FAN
RF	RETURN FAN
RH	RELIEF HOOD
RM	ROOM
RR	RETURN AIR REGISTER
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SDC	STAND ALONE DIGITAL CONTROLLER
SF	SQUARE FEET
SP	STATIC PRESSURE
SPD	SPEED
SR	SUPPLY AIR REGISTER
SS	STAINLESS STEEL
SST	SATURATED SUCTION TEMPERATURE
TA	TRANSFER AIR
TD	TRANSFER AIR DUCT
TE	TOILET EXHAUST
TEF	TOILET EXHAUST FAN
TG	TRANSFER AIR GRILLE
TSTAT	THERMOSTAT
TYP	TYPICAL
UC	UNDERCUT DOOR
VB	VACUUM BREAKER
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB TEMPERATURE (°F)
WMS	WIRE MESH SCREEN

EQUIPMENT TAGS	
CP	CONDENSATE PUMP
EF	EXHAUST FAN
GF	GAS FIRED FURNACE
RTU	ROOFTOP UNIT
UH	UNIT HEATER
TF	TOILET FAN
VI	VIBRATION ISOLATION

CONTROL SCHEMATIC LEGEND	
(CO)	CO SENSOR
(CO2)	CO2 SENSOR
(HS)	HUMIDITY SENSOR
(TS)	TEMPERATURE SENSOR
(SP)	STATIC PRESSURE SENSOR
(P)	PRESSURE SENSOR
(T)	HEAT/COOL THERMOSTAT
(T <sub>R</sub> )	REVERSE ACTING THERMOSTAT
(S)	SWITCH CONTROLLER
(C)	TIME CLOCK CONTROLLER
(H)	HUMIDITY SENSOR
(TS)	TEMPERATURE SENSOR
(FS)	FLOW SWITCH
(F)	FLOW RATE SENSOR
(FZ)	FREEZESTAT
(HL)	HIGH LIMIT THERMOSTAT
(E)	ENTHALPY CONTROL
(AFS)	AIR FLOW MEASURING STATION
(VFD)	VARIABLE FREQUENCY DRIVE
(DPS)	DIFFERENTIAL PRESSURE SENSOR
(DSD)	DUCT SMOKE DETECTOR
---	CONTROL LINE

DRAWING NOTES	
	<p>NECK SIZE OR LENGTH IF LINEAR DIFFUSER SUPPLY/RETURN/EXHAUST REGISTER OR GRILLE AIR VOLUME (CFM) QUANTITY</p> <p>NECK SIZE OR LENGTH IF LINEAR DIFFUSER SUPPLY DIFFUSER DESIGNATION AIR VOLUME (CFM) QUANTITY</p> <p>EXISTING SUPPLY/RETURN/EXHAUST/TRANSFER REGISTER</p> <p>EQUIPMENT DESIGNATION</p> <p>EXISTING EQUIPMENT DESIGNATION</p> <p>DRAWING REVISION NOTE</p> <p>DRAWING WORK NOTE</p> <p>REVISION CLOUD</p>

DUCTWORK LEGEND	
	RECTANGULAR DUCTWORK - FIRST DIMENSION IS SIDE SHOWN (IN.)
	ROUND DUCTWORK - DIMENSION IS DUCT DIAMETER (IN.)
	RECTANGULAR SUPPLY DUCTWORK UP
	RECTANGULAR SUPPLY DUCTWORK DOWN
	RECTANGULAR RETURN/EXHAUST DUCTWORK UP
	RECTANGULAR RETURN/EXHAUST DUCTWORK DOWN
	ROUND DUCTWORK UP
	ROUND DUCTWORK DOWN
	BEAM PENETRATION BY DUCTWORK
	CAPPED DUCTWORK
	FLEXIBLE CONNECTION
	RECTANGULAR TRANSITION
	RECTANGULAR TO ROUND DUCTWORK TRANSITION
	MITERED ELBOW WITH TURNING VANES
	CHANGE OF ELEVATION UP IN DIRECTION OF AIRFLOW
	CHANGE OF ELEVATION DOWN IN DIRECTION OF AIRFLOW

DAMPERS	
	ACD MOTORIZED OR AUTOMATIC CONTROL DAMPER
	SD SMOKE DAMPER
	BD BACK DRAFT DAMPER
	FD FIRE DAMPER
	FSD FIRE & SMOKE DAMPER
	VD VOLUME DAMPER

PIPING LEGEND	
	HWS HOT WATER SUPPLY
	HWR HOT WATER RETURN
	RS REFRIGERANT SUCTION
	RL REFRIGERANT LIQUID
	RHG REFRIGERANT HOT GAS
	CD A.C. CONDENSATE DRAIN
	V VENT
	PIPE OFF BOTTOM
	PIPE OFF TOP
	RUN-OUT OFF TOP
	RUN-OUT OFF BOTTOM
	PIPE UP
	PIPE DOWN
	PIPE BREAK

- | GENERAL NOTES |   |
|---------------|---|
| 1.            | MECHANICAL WORK INDICATED IS DIAGRAMMATIC. EXACT LOCATIONS OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD (SPACING SUBJECT TO ARCHITECT'S REVIEW AND APPROVAL) TO AVOID CONFLICT WITH OTHER TRADES AND EXISTING SITE CONDITIONS.   |
| 2.            | THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THE SITE TO IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE WORK OF THIS SECTION. REPORT IN WRITING TO THE ARCHITECT - CONDITIONS WHICH MIGHT ADVERSELY AFFECT WORK. NO EXTRA PAYMENT WILL BE PROVIDED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY AN EXPERIENCED OBSERVER. |
| 3.            | WORK REQUIRING INTERRUPTION OF BUILDING SERVICES SHALL BE CAREFULLY REVIEWED AND COORDINATED WITH THE OWNER TO MINIMIZE FREQUENCY AND DURATION OF SERVICE INTERRUPTIONS.  |
| 4.            | ALL INSTALLATIONS SHALL PERMIT AND PROVIDE ACCESSIBILITY FOR SERVICE AND REPLACEMENT OF ALL NEW EQUIPMENT AND EXISTING EQUIPMENT IMPACTED BY THIS WORK.   |
| 5.            | COORDINATE ALL OPENINGS IN FLOORS WITH STRUCTURAL DRAWINGS AND GENERAL CONTRACTOR.  |
| 6.            | COORDINATE ALL ROOF OPENINGS WITH ARCHITECT AND STRUCTURAL ENGINEER.  |
| 7.            | REFER TO STRUCTURAL FRAMING PLANS FOR EXACT LOCATION OF ALL ROOF MOUNTED EQUIPMENT.   |
| 8.            | ALL MECHANICAL EQUIPMENT, PIPING, AND DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF GOVERNING LOCAL, STATE, AND FEDERAL SEISMIC CODES. PARTICULAR ATTENTION SHALL BE MADE TO VIBRATION ISOLATION, ANCHORING, AND BALANCING REQUIREMENTS.   |
| 9.            | PROVIDE SMOKE DETECTORS AND SMOKE DAMPERS WHERE SHOWN ON THE MECHANICAL DRAWINGS. COORDINATE THE QUANTITY AND EXACT LOCATION WITH ACTUAL SHEET METAL SHOP DRAWINGS, TO BE PRODUCED BY MECHANICAL CONTRACTOR, AND APPROVED BY ENGINEER. PROVIDE SMOKE DETECTORS AND SMOKE DAMPERS IN BOTH SUPPLY AND RETURN DUCTS ON ALL AIR HANDLERS AS SHOWN IN MECHANICAL DRAWINGS.   |
| 10.           | ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH CODES AND STANDARDS SET FORTH IN NFPA, SMACNA, AND ASHRAE FOR MEDIUM AND LOW PRESSURE DUCTWORK SYSTEMS.  |
| 11.           | ALL DUCTS, PIPES, AND EQUIPMENT SHALL BE INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE WITH PROPER ALLOWANCES FOR CONTRACTION, EXPANSION, AND VIBRATION ELIMINATION.  |
| 12.           | PROVIDE COPPER 1" RUN-OUTS TO HOT WATER REHEAT COILS, CABINET HEATERS AND UNIT HEATERS UNLESS NOTED OTHERWISE.  |
| 13.           | ROOM THERMOSTATS SHALL BE MOUNTED 4"-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE SHOWN OR DIRECTED.  |
| 14.           | ALL DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR FREE AREA REQUIRED.  |
| 15.           | ALL PIPING IS TO BE SLOPED A MINIMUM OF 1/4" PER HUNDRED FEET IN THE DIRECTION OF DRAINAGE.   |
| 16.           | NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED ON THIS PROJECT.  |
| 17.           | COORDINATE ENTIRE INSTALLATION WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATIONS.   |
| 18.           | OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES RELATED TO SAME.   |
| 19.           | ALL PIPING AND DUCTWORK SHOWN IS DIAGRAMMATIC ONLY. DETERMINE THE EXACT LOCATION IN THE FIELD.  |
| 20.           | REVIEW ALL ARCHITECTURAL, STRUCTURAL, PLUMBING, ELECTRICAL, FIRE PROTECTION AND SITE DRAWINGS BEFORE STARTING ANY WORK TO BECOME FAMILIAR WITH THE DETAILS OF CONSTRUCTION, AND COORDINATE WITH OTHER TRADES.   |
| 21.           | PROVIDE ALL NECESSARY PIPING, EQUIPMENT AND SUPPORTS AS WELL AS ANY ADDITIONAL EQUIPMENT, ETC. NOT SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS BUT NECESSARY TO PROVIDE COMPLETE AND WORKABLE SYSTEMS.  |
| 22.           | PROVIDE ACCESS TO ALL EQUIPMENT REQUIRING PERIODIC SERVICE AND MAINTENANCE.   |
| 23.           | DO NOT SCALE THESE DRAWINGS. TAKE ALL MEASUREMENTS IN THE FIELD IN COORDINATION WITH ALL EQUIPMENT AS APPROVED AND WITH ALL OTHER TRADES.   |
| 24.           | FOR EQUIPMENT SCHEDULES, SEE M002.  |
| 25.           | ALL ROTATING EQUIPMENT SHALL HAVE FLEXIBLE PIPE ON DUCT CONNECTIONS AND APPROVED VIBRATION ISOLATORS.   |
| 26.           | DETAILS SHOWN ON DRAWING M003 & M004 ARE APPLICABLE TO ALL EQUIPMENT, EXCEPT WHERE INDICATED.   |
| 27.           | PROVIDE AIRTIGHT ACCESS DOOR FOR INSPECTION OF FIRE DAMPERS, FILTERS, AND COILS.  |
| 28.           | CONTRACTOR SHALL VERIFY DUCT, PIPING AND EQUIPMENT LOCATIONS FOR INTERFERENCES BEFORE INSTALLATION.   |
| 29.           | REFERENCE DRAWING M005 FOR SEQUENCE OF OPERATION OF NEW EQUIPMENT.  |
| 30.           | ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.  |

- | DEMOLITION GENERAL NOTES |  |
|--------------------------|--|
| 1.                       | CONTRACTOR SHALL VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVERS.  |
| 2.                       | PRIOR TO COMMENCING WORK OF THIS SECTION, EXAMINE SITE AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. DETERMINE EXACT LOCATIONS OF EXISTING EQUIPMENT, PIPING AND CONTROLS. REPORT TO OWNER ANY CONDITIONS THAT MIGHT ADVERSELY AFFECT WORK. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS AND PREPARATORY WORK. |
| 3.                       | ABANDONING OF DUCTWORK, PIPING OR EQUIPMENT IN PLACE SHALL NOT BE ALLOWED. COMPLETE REMOVAL REQUIRED UNLESS NOTED OTHERWISE.   |
| 4.                       | PIPING TO BE REMOVED: REMOVE ALL EXISTING WATER PIPING ASSOCIATED WITH HOT WATER SYSTEM.   |
| 5.                       | DUCTS TO BE REMOVED: REMOVE ALL EXISTING DUCTWORK.   |
| 6.                       | EQUIPMENT TO BE REMOVED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT.   |
| 7.                       | EQUIPMENT TO BE REMOVED AND SALVAGED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT AND DELIVER TO OWNER.   |
| 8.                       | COMPLY WITH ALL STATE AND LOCAL CODES AS TO REMOVAL AND DISPOSAL OF EQUIPMENT REMOVED FROM THE SITE.   |
| 9.                       | COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING SELECTIVE DEMOLITION.  |
| 10.                      | REMOVE PREVIOUSLY ABANDONED WORK IN THE WAY OF EXISTING CONSTRUCTION, OR AS NOTED.   |
| 11.                      | COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.   |
| 12.                      | COMPLY WITH ANSI A10.6 AND NFPA 241.   |
| 13.                      | PERMITS: GIVE ALL REQUIRED NOTICES, FILE ALL REQUIRED PLANS AND SPECIFICATIONS RELATING TO THE WORK OF THIS SECTION WITH THE PROPER AUTHORITIES AND PAY FOR ANY REQUIRED PERMITS.  |
| 14.                      | ALL AIR-CONDITIONING EQUIPMENT AND SYSTEMS SHALL BE REMOVED DEMOLISHED WITHOUT RELEASING REFRIGERANTS. REFRIGERANT RECOVERY IS TO BE PERFORMED BY A REFRIGERANT RECOVERY TECHNICAL CERTIFIED BY AN EPA-APPROVED CERTIFICATION PROGRAM.   |
| 15.                      | ALL EQUIPMENT AND SYSTEMS TO BE REMOVED OR DEMOLISHED UNDER THIS SECTION AND NOT DESIRED BY OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE ALL SUCH EQUIPMENT FROM THE SITE PROMPTLY AFTER DETACHMENT FROM BUILDING STRUCTURE.   |
| 16.                      | STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE IS NOT PERMITTED.  |
| 17.                      | IT IS UNKNOWN WHETHER HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT AND OWNER.   |
| 18.                      | EXISTING PIPING SHOWN ON DRAWINGS DOES NOT INDICATE FULL EXTENT OF PIPING DEMOLITION. FIELD VERIFICATIONS REQUIRED.  |

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## FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



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Drawing Title:

## MECHANICAL LEGENDS, NOTES, & ABBREVIATIONS

Revisions:

NOT FOR CONSTRUCTION

Submission:

## BIDDING DOCUMENTS

Date: 10/24/2018  
Project Number: 17009  
Project Manager: WJS  
Drawn By: DLC  
Scale: NTS

# M0-00

HVAC SCHEDULES

GAS FIRED FURNACE SCHEDULE																							
TAG No.	LOCATION SERVED	MANUFACTURER (AS STANDARD)	MODEL No. (AS STANDARD)	TOTAL CFM	MIN GA CFM	SUPPLY FAN DATA	DX COOLING COIL DATA						GAS HEATING DATA				ELECTRICAL DATA					AFUE	ELECTRICAL DATA
							ESP	HP	EAT	DB(F)	EAT	WB(F)	TC(MBH)	EAT (F)	LAT (F)	MBH IN	MBH OUT	VOLTS	PHASE	HTZ	AMPS		
GF-1	SANCTUARY	CARRIER	59TP6A080E171120	2000	335	2000	0.5*	1/2	78	65	60	64	96	80	78	115	1	60	14.5	15	96.2	PROVIDE COOLING COIL, DISCONNECT, MERV 8 FILTER, CONCENTRIC VENT KIT, CONDENSATE NEUTRALIZER KIT, FREEZE PROTECTION, AND WIRED THERMOSTAT	
GF-2	SANCTUARY	CARRIER	59TP6A080E171120	2000	335	2000	0.5*	1/2	78	65	60	64	96	80	78	115	1	60	14.5	15	96.2	PROVIDE COOLING COIL, DISCONNECT, MERV 8 FILTER, CONCENTRIC VENT KIT, CONDENSATE NEUTRALIZER KIT, FREEZE PROTECTION, AND WIRED THERMOSTAT	
GF-3	MEZZANINE	CARRIER	59TP6A080E171116	1600	230	1600	0.5*	1/2	78	65	48	64	96	80	78	115	1	60	14.5	15	96.2	PROVIDE COOLING COIL, DISCONNECT, MERV 8 FILTER, CONCENTRIC VENT KIT, CONDENSATE NEUTRALIZER KIT, FREEZE PROTECTION, AND WIRED THERMOSTAT	
GF-4	LOBBY	CARRIER	59TP6A080E171116	1600	330	1600	0.5*	1/2	78	65	48	64	96	80	78	115	1	60	14.5	15	96.2	PROVIDE COOLING COIL, DISCONNECT, MERV 8 FILTER, CONCENTRIC VENT KIT, CONDENSATE NEUTRALIZER KIT, FREEZE PROTECTION, AND WIRED THERMOSTAT	

- NOTES:  
 1. PROVIDE LITTLE GIANT CONDENSATE PUMPS; MODEL VCC-20ULS FOR ALL FAN COILS  
 2. PROVIDE CONDENSATE OVERFLOW SWITCH.  
 3. PROVIDE ECM FAN MOTOR  
 4. PROVIDE R-410A REFRIGERANT  
 5. PROVIDE TXV  
 6. PROVIDE ECONOMIZER OPERATION FOR GF-1 AND GF-2

AIR COOLED CONDENSING UNIT SCHEDULE																				
TAG No.	LOCATION(S) SERVED	MANUFACTURER (AS STANDARD)	MODEL No. (AS STANDARD)	TYPE	COOLING DATA				ELECTRICAL DATA											REMARKS
					COOLING MBH	EAT(F)	SST(F)	SCY(F)	TOTAL CFM	VOLTS	PHASE	HZ	MCA	MOCP	CONDENSER FAN # / HP	COMPRESSOR MTR RLA / LRA	SEER	OPERATING WEIGHT		
ACCU-1	GF-1	CARRIER	38DR060	AIR COOLED	60.0	95	-	-	-	208	1	60	34.5	60	1 / 1/4	26.4/134.0	13	294	PROVIDE DISCONNECT SWITCH, LOW AMBIENT OPERATION, & EQUIPMENT PAD; SIZE REFRIGERANT PIPE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS	
ACCU-2	GF-2	CARRIER	38DR060	AIR COOLED	60.0	95	-	-	-	208	1	60	34.5	60	1 / 1/4	26.4/134.0	13	294	PROVIDE DISCONNECT SWITCH, LOW AMBIENT OPERATION, & EQUIPMENT PAD; SIZE REFRIGERANT PIPE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS	
ACCU-3	GF-3	CARRIER	38DR048	AIR COOLED	48.0	95	-	-	-	208	1	60	26.4	40	1 / 1/4	19.9/109.0	13	284	PROVIDE DISCONNECT SWITCH, LOW AMBIENT OPERATION, & EQUIPMENT PAD; SIZE REFRIGERANT PIPE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS	
ACCU-4	GF-4	CARRIER	38DR048	AIR COOLED	48.0	95	-	-	-	208	1	60	26.4	40	1 / 1/4	19.9/109.0	13	284	PROVIDE DISCONNECT SWITCH, LOW AMBIENT OPERATION, & EQUIPMENT PAD; SIZE REFRIGERANT PIPE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS	

ELECTRIC HEATING COIL SCHEDULE														
TAG No.	LOCATION(S) SERVED	MANUFACTURER (AS STANDARD)	MODEL No. (AS STANDARD)	DUCT HEIGHT X WIDTH (IN. X IN.)	CFM	KW	MBH	DELTA T (F)	APP. (IN.)	ELECTRICAL DATA			REMARKS	
										VOLTS	PHASE	HZ		
EHC-1	ERV-1	INDEECO	QUZ	14" X 14"	900	11.7	35.0	36	-	208	3	60	-	PROVIDE DISCONNECT
EHC-2	SF-1	INDEECO	QUZ	14" X 14"	1000	20	68.2	63	-	208	3	60	-	PROVIDE DISCONNECT

HVAC POWER EQUIPMENT SCHEDULE										
TAG	DESCRIPTION	LOCATION	MANUFACTURER (AS STANDARD)	MODEL No. (AS STANDARD)	SERVING EQUIPMENT TAG	FIRE ALARM CONNECTION	ELECTRICAL DATA		REMARKS	
							VOLTS	PHASE	HZ	
M	MOTORIZED DAMPER	REFER TO DWGS	-	-	-	NO	120	1	60	

REGISTER, GRILLE & DIFFUSER SCHEDULE									
TAG	TYPE	CFM	NECK SIZE	FRAME TYPE	MOUNTING	DAMPER	MATERIAL	FINISH	MANUFACTURER & MODEL No.
SD	SUPPLY	-	-	CIRCLE	CEILING	YES	AL	WHITE	TITUS/TND-AA
SR	SUPPLY	-	-	SQUARE	SIDEWALL	YES	AL	WHITE	TITUS/300RL
RR	RETURN	-	-	SQUARE	CEILING	YES	AL	WHITE	TITUS/350 RLF1
ER	EXHAUST	-	-	SQUARE	CEILING	YES	AL	WHITE	TITUS/350 RL
LFS	SUPPLY	400	-	RECTANGLE	FLOOR	YES	AL	WHITE	TITUS/CT-480
FRR	RETURN	-	-	SQUARE	FLOOR	YES	AL	WHITE	TITUS/30 RL

- NOTES:  
 1. COORDINATE MOUNTING REQUIREMENTS, FINISH & COLOR WITH ARCHITECTURAL REFLECTED CEILING PLANS.  
 2. PROVIDE FRAME SUITABLE FOR SURFACE MOUNTING, CEILING OR SIDEWALL AND PROVIDE SQUARE TO ROUND TRANSITIONS WHERE NEEDED.  
 3. PROVIDE RADATION DAMPERS WITH ALL SUPPLY DIFFUSERS AND IN ALL LOCATIONS THAT GRILLE WILL PENETRATE MEMBRANE OF A RATED FLOOR/CEILING HORIZONTAL ASSEMBLY  
 4. REFER TO DRAWINGS FOR NECK SIZES AND CFM UNLESS NOTED ABOVE.  
 5. PROVIDE OPPOSED BLADE DAMPERS IN ALL SUPPLY REGISTERS.

HEAT PUMP - AIR COOLED CONDENSING UNIT SCHEDULE														
TAG No.	FAN COIL(S) SERVED	MANUFACTURER	MODEL No.	TYPE	REFRIG.	MBH		ELECTRICAL DATA				OPERATING WEIGHT	REMARKS	
						COOL	HEAT	VOLTS	PHASE	MCA	MOCP			
HP-1	COMMON AREA	MITSUBISHI	PURY-P144TLMU-A	AIR COOLED	R-410A	144	160	1	208	3	52	80	695	PROVIDE SEPARATE EQUIPMENT PAD, DRAIN PAN HEATER, SNOW/HAIL GUARDS, LOW AMBIENT KIT, JOINT KIT, PROVIDE 24" HIGH STAND, DISCONNECT SWITCH

HEAT PUMP - FAN COIL UNIT SCHEDULE																			
TAG No.	MANUFACTURER	MODEL No.	TYPE	COOLING MBH	HEATING MBH	FAN DATA				ELECTRICAL DATA								REMARKS	
						OA (CFM)	MIN (CFM)	MAX (CFM)	ESP (IN WG)	COOLING (W)	COOLING (A)	HEATING (W)	HEATING (A)	VOLT	PH	HZ	MCA		MOCP
FC-1	MITSUBISHI	PKFY-P24NKMU-E2	WALL MOUNTED	24	27	-	570	920	-	70	0.50	70	0.50	208	1	60	0.63	15	PROVIDE WITH DISCONNECT SWITCH, VIBRATION ISOLATION, WALL MOUNTED THERMOSTAT
FC-2	MITSUBISHI	PKFY-P24NKMU-E2	WALL MOUNTED	24	27	-	570	920	-	70	0.50	70	0.50	208	1	60	0.63	15	PROVIDE WITH DISCONNECT SWITCH, VIBRATION ISOLATION, WALL MOUNTED THERMOSTAT
FC-3	MITSUBISHI	PKFY-P24NKMU-E2	WALL MOUNTED	24	27	-	570	920	-	70	0.50	70	0.50	208	1	60	0.63	15	PROVIDE WITH DISCONNECT SWITCH, VIBRATION ISOLATION, WALL MOUNTED THERMOSTAT
FC-4	MITSUBISHI	PKFY-P24NKMU-E2	WALL MOUNTED	24	27	-	570	920	-	70	0.50	70	0.50	208	1	60	0.63	15	PROVIDE WITH DISCONNECT SWITCH, VIBRATION ISOLATION, WALL MOUNTED THERMOSTAT
FC-5	MITSUBISHI	PKFY-P24NKMU-E2	WALL MOUNTED	24	27	-	570	920	-	70	0.50	70	0.50	208	1	60	0.63	15	PROVIDE WITH DISCONNECT SWITCH, VIBRATION ISOLATION, WALL MOUNTED THERMOSTAT
FC-6	MITSUBISHI	PKFY-P12NHMU-E2	WALL MOUNTED	12	13.5	-	320	410	-	30	0.30	30	0.30	208	1	60	0.38	15	PROVIDE WITH DISCONNECT SWITCH, VIBRATION ISOLATION, WALL MOUNTED THERMOSTAT

- NOTES:  
 1. PROVIDE LITTLE GIANT CONDENSATE PUMP (CP-1); MODEL VCC-20ULS, 120/1/60.

ELEVATOR HEAT PUMP - FAN COIL UNIT SCHEDULE																				
TAG No.	MANUFACTURER (AS STANDARD)	MODEL No. (AS STANDARD)	TYPE	COOLING MBH	HEATING MBH	FAN DATA				ELECTRICAL DATA								REMARKS		
						OA (CFM)	MIN (CFM)	MAX (CFM)	ESP (IN WG)	NO. FANS	MOTOR (W)	EER	COOL (W)	COOL (A)	VOLT	PH	HZ		MCA	MOCP
EFC-1	MITSUBISHI	PKA-A12H47	WALL MOUNTED	12	11.1	-	320	425	-	1	30	12.0	56	0.33	208	1	60	1	15	PROVIDE DISCONNECT, WIRED THERMOSTAT, CONDENSATE PUMP TYPICAL OF LITTLE GIANT M#VCC-20ULS (120V/1P/60HZ)

ELEVATOR HEAT PUMP - AIR COOLED CONDENSING UNIT SCHEDULE												
TAG No.	SPACE SERVED	MANUFACTURER	MODEL No.	TYPE	REFRIG.	MBH-RATED		ELECTRICAL DATA				REMARKS
						COOL	HEAT	VOLTS	PHASE	MCA	MOCP	
EHP-1	EFC-1	MITSUBISHI	PUZ-A12NK47	AIR COOLED	R-410A	12.0	11.1	208	1	11	28	PROVIDE DISCONNECT, EQUIPMENT PAD, STAND, 1/4"RL & 1/2"RS REFRIGERANT PIPING & LOW AMBIENT OPERATION KIT

PIPE INSULATION TABLE					
SERVICE/LOCATION	INSULATION TYPE	FITTING INSULATION TYPE	INSULATION WALL THICKNESS (INCHES)		
			FOR PIPE DIA. (INCHES)		
			ø < 1"	ø < 1-1/2"	1-1/2" ≤ ø < 4"
REFRIGERANT PIPING	ELASTOMERIC	ELASTOMERIC	1-1/2"	1-1/2"	1-1/2"
CONDENSATE PIPING	ELASTOMERIC	ELASTOMERIC	3/4"	3/4"	3/4"

DUCT INSULATION TABLE		
SERVICE/LOCATION	INSULATION TYPE	FITTING INSULATION TYPE
SUPPLY, RETURN & OUTSIDE AIR DUCT INSULATION (WITHIN BUILDING ENVELOPE)	2" FIBERGLASS DUCT WRAP WITH FSK FACING	→
EXHAUST DUCT INSULATION (BETWEEN DISCHARGE AND DAMPER)	2" FIBERGLASS DUCT WRAP WITH FSK FACING	→
VENT AND COMBUSTION AIR DUCT INSULATION (UNHEATED SPACES)	1" FIBERGLASS DUCT WRAP WITH FSK FACING	→

REFRIGERANT PIPE SIZE TABLE				
FROM UNIT(S)	TO UNIT(S)	REF LIQUID PIPE SIZE	REF SUCTION PIPE SIZE	CONDENSATE DRAIN PIPE SIZE
ACCU-1	GF-1	3/8"	7/8"	3/4"
ACCU-2	GF-2	3/8"	7/8"	3/4"
ACCU-3	GF-3	3/8"	7/8"	3/4"
ACCU-4	GF-4	3/8"	7/8"	3/4"

- NOTES:  
 1. CONTRACTOR SHALL PROVIDE REFRIGERANT PIPE FROM AIR COOLED CONDENSING UNITS TO GAS FURNACE UNITS.  
 2. CONTRACTOR SHALL PROVIDE CONDENSATE DRAIN PIPE FROM GAS FURNACE UNITS TO DRAIN(S).  
 3. CONTRACTOR SHALL VERIFY REFRIGERANT PIPE SIZE WITH MANUFACTURER PRIOR TO INSTALLATION.

FAN SCHEDULE												
TAG No.	LOCATION(S) SERVED	MANUFACTURER (AS STANDARD)	MODEL No. (AS STANDARD)	TYPE	FAN DATA			ELECTRICAL DATA				REMARKS
					CFM	RPM	SP(N)	VOLTS	PHASE	HZ	HP	
SF-1	KITCHEN MUA	GREENHECK	SQ-100-VG	INLINE	1000	-	0.5	208	1	60	1/4	1

- NOTES:  
 1) PROVIDE WITH MOTORIZED DAMPER, DISCONNECT, DIFFERENTIAL PRESSURE CONTROLS, AND SPEED CONTROLLER

PIPE MATERIAL TABLE				
SERVICE	LOCATION	PIPING	FITTINGS	JOINTS
REFRIGERANT PIPING RL & RS	ABOVE GROUND	COPPER - ARC	COPPER, NO LEAD	BRAZED
CONDENSATE DRAIN PIPING CD		TYPE 'L' COPPER	WROUGHT COPPER, NO LEAD	95/5 NO-LEAD SOLDER

ENERGY RECOVERY VENTILATION UNIT SCHEDULE												
TAG No.	LOCATION SERVED	MANUFACTURER (AS STANDARD)	MODEL No. (AS STANDARD)	TOTAL CFM	ESP (IN W.C.)	TYPE	ELECTRICAL DATA				WEIGHT (LBS)	REMARKS
							VOLTS	PHASE	MCA	MOCP		
ERV-1	BASEMENT SPACES	RENEWARE	HE1XHV	900	0.5	CORE	208	1	10.8	15	325	PROVIDE DISCONNECT SWITCH, MOUNTING KIT, MERV 8 FILTERS.

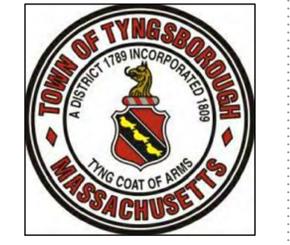
INTAKE/RELIEF HOOD SCHEDULE															
TAG No.	SERVES	MANUFACTURER	MODEL No.	TYPE	CFM	SP IN WG	HOUSING			ROOF CURB		DAMPER	WEIGHT	REMARKS	
							DESIGN	MATERIAL	THROAT L'xW'	TYPE	MTL HGT				
IH-1	GAS FURNACES	GREENHECK	FGI	PENTHOUSE	4560	0.1	PENT.	GA	42x24	60x50x19	CANT GA	24"	MOTOR	55	PROVIDE PREFABRICATED PITCHED ROOF CURB & INSECT SCREEN
RH-1	GAS FURNACES	GREENHECK	FR	PENTHOUSE	4560	0.1	PENT.	GA	42x24	60x34x19	CANT GA	24"	MOTOR	37	PROVIDE PREFABRICATED PITCHED ROOF CURB & INSECT SCREEN

ELECTRIC UNIT HEATER SCHEDULE												
TAG No.	MANUFACTURER (AS STANDARD)	MODEL No. (AS STANDARD)	TYPE	AIR DATA			ELECTRICAL DATA				REMARKS	
				CFM	EAT(F)	LAT(F)	KW	AMPS	VOLTS	PHASE		HP
ELH-1	QMARK	MUH0321	HORIZONTAL	350	50	77	2.2	11.0	208	1	1/100	PROVIDE REMOTE THERMOSTAT AND DISCONNECT SWITCH



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MECHANICAL SCHEDULES

Revisions:

NOT FOR CONSTRUCTION

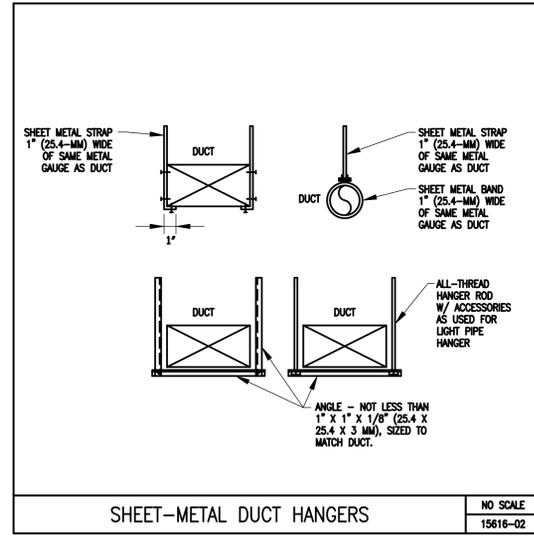
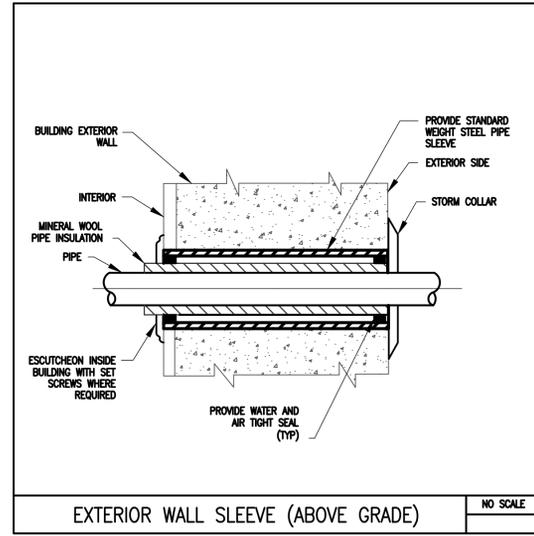
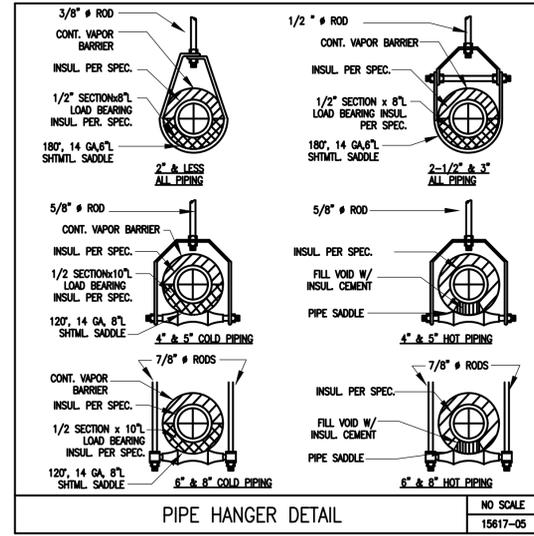
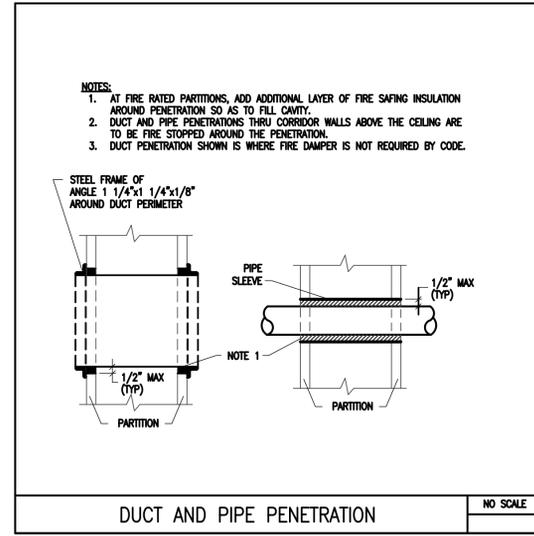
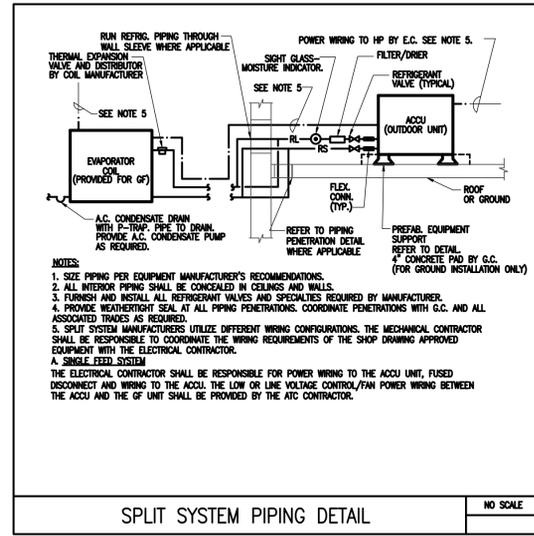
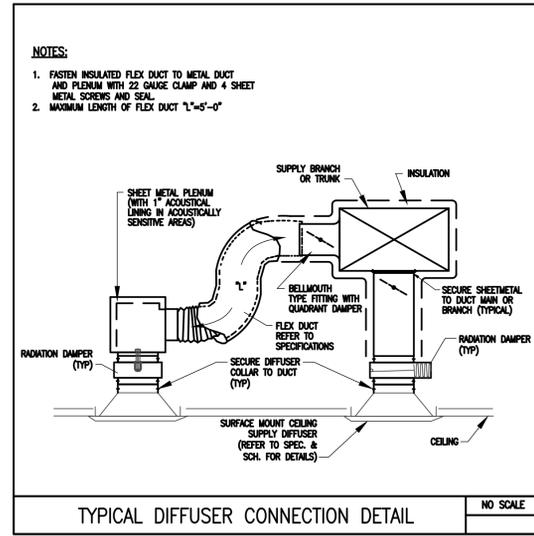
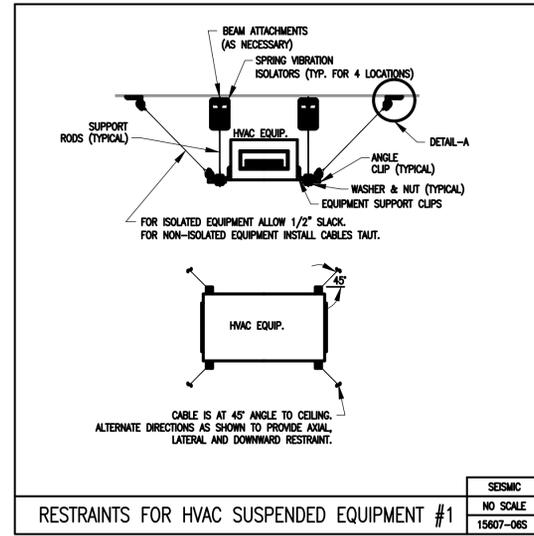
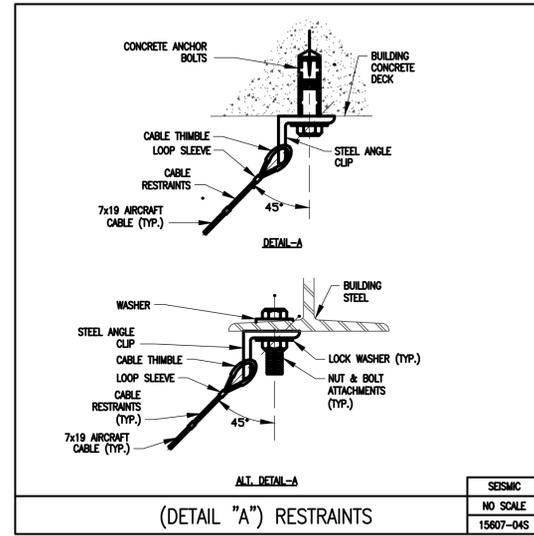
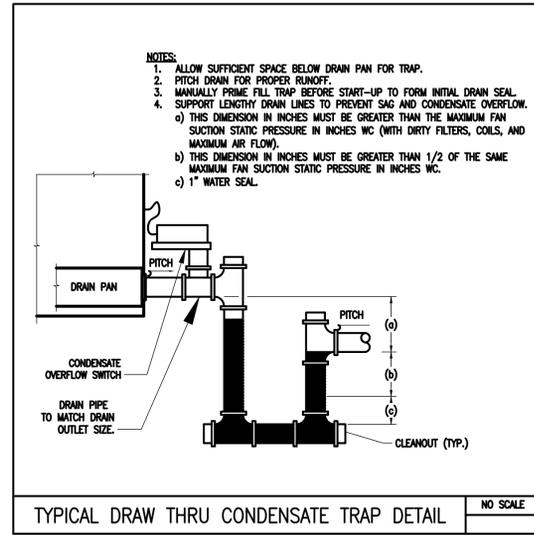
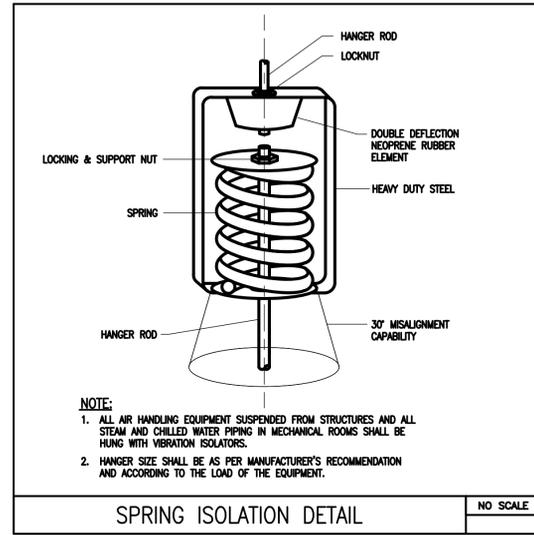
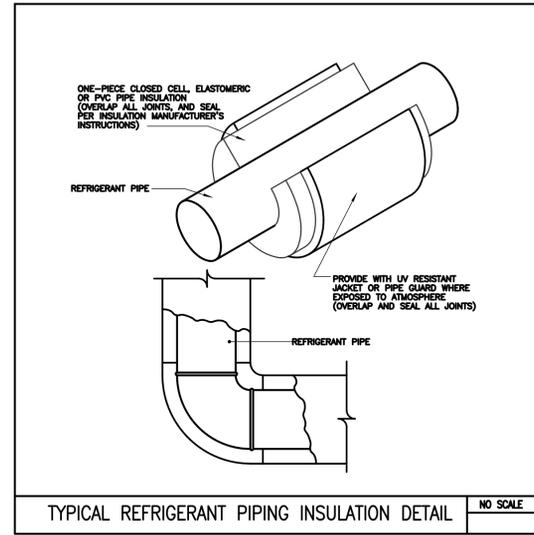
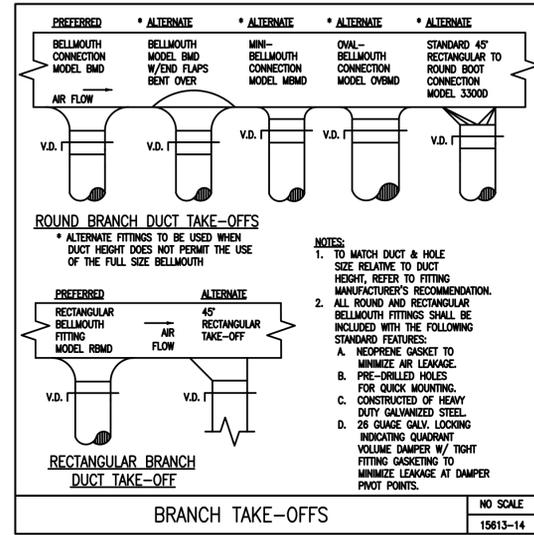
Submission:

BIDDING DOCUMENTS

Date: 10/24/2018  
 Project Number: 17009  
 Project Manager: WJS  
 Drawn By: DLC  
 Scale: NTS

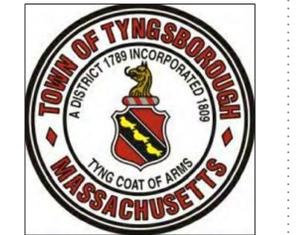
M0-01

HVAC DETAILS



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FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



TOWN OF TYNGSBOROUGH  
25 BRYANTS LANE  
TYNGSBOROUGH, MA 01879

MECHANICAL DETAILS

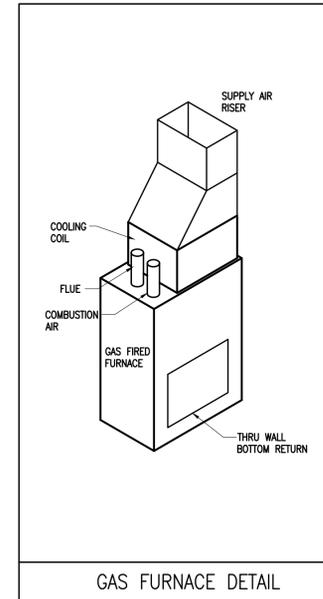
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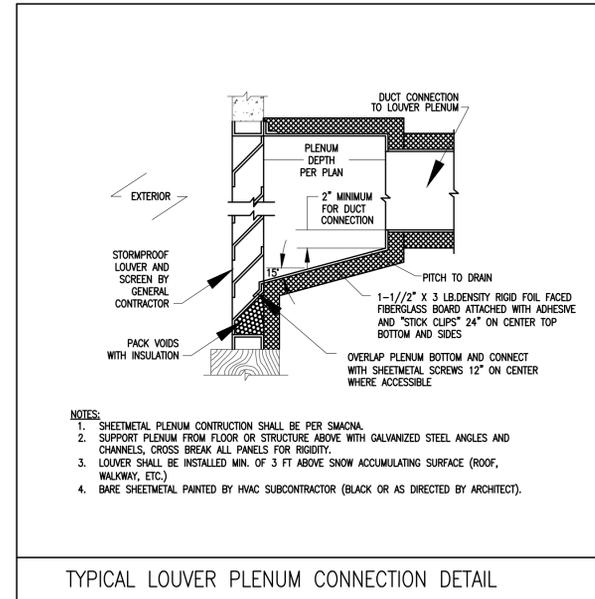
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M0-02

HVAC DETAILS

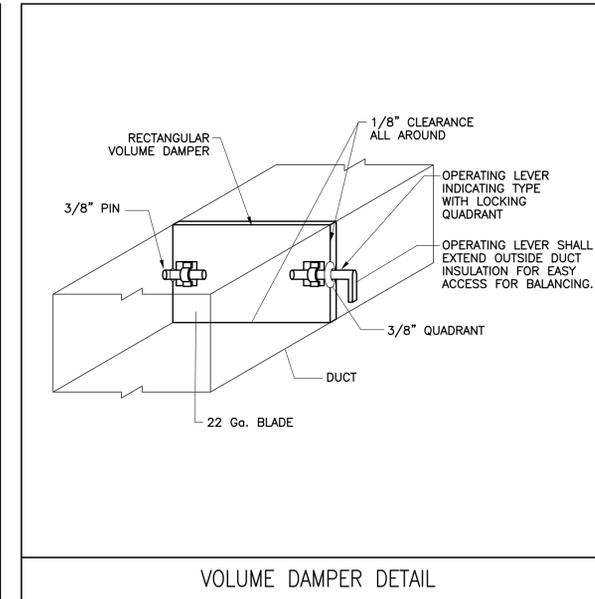


GAS FURNACE DETAIL



- NOTES:
1. SHEETMETAL PLENUM CONSTRUCTION SHALL BE PER SMACNA.
  2. SUPPORT PLENUM FROM FLOOR OR STRUCTURE ABOVE WITH GALVANIZED STEEL ANGLES AND CHANNELS, CROSS BREAK ALL PANELS FOR RIGIDITY.
  3. LOUVER SHALL BE INSTALLED MIN. OF 3 FT ABOVE SNOW ACCUMULATING SURFACE (ROOF, WALKWAY, ETC.).
  4. BARE SHEETMETAL PAINTED BY HVAC SUBCONTRACTOR (BLACK OR AS DIRECTED BY ARCHITECT).

TYPICAL LOUVER PLENUM CONNECTION DETAIL



VOLUME DAMPER DETAIL

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FIRST PARISH  
 MEETING HOUSE  
 INTERIOR  
 RENOVATION



TOWN OF  
 TYNGSBOROUGH  
 25 BRYANTS LANE  
 TYNGSBOROUGH, MA 01879

Drawing Title:  
**MECHANICAL  
 DETAILS**

Revisions:  
 NOT FOR  
 CONSTRUCTION

Submission:  
**BIDDING  
 DOCUMENTS**

Date: 10/24/2018  
 Project Number: 17009  
 Project Manager: WJS  
 Drawn By: DLC  
 Scale: NTS

**M0-03**

HVAC SEQUENCES OF OPERATION

**HEAT PUMP & FAN COIL UNITS SEQUENCE OF OPERATION**

THE INDIVIDUAL FAN COIL UNITS SHALL BE CONTROLLED THROUGH THE CORRESPONDING SPACE THERMOSTAT AND THE MASTER CONTROL UNIT. THE HEAT PUMP UNIT SHALL BE CONTROLLED THROUGH THE MASTER CONTROL UNIT. THE SEQUENCE LISTED BELOW IS REVERSIBLE UNLESS NOTED OTHERWISE.

**OCCUPIED MODE:**  
 THE HEAT PUMP UNIT SHALL ENERGIZE AND OPERATE PER THE MANUFACTURER'S SEQUENCES. THE FAN COIL UNIT SUPPLY FAN SHALL ENERGIZE TO LOW SPEED AND OPERATE CONTINUOUSLY.

UPON A CALL FOR HEAT FROM THE SPACE THERMOSTAT, THE FAN COIL UNIT SHALL OPERATE PER THE MANUFACTURER'S SEQUENCE TO MAINTAIN THE SPACE TEMPERATURE SET POINT OF 70°F (ADJ.). UPON A FURTHER CALL FOR HEAT, THE UNIT'S FAN SPEED SHALL BE INCREASED FROM LOW TO MEDIUM AND MEDIUM TO HIGH, AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SET POINT; THE HP SHALL ENERGIZE AND OPERATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

UPON A CALL FOR COOLING FROM THE SPACE THERMOSTAT, THE FAN COIL SHALL OPERATE TO MAINTAIN THE SPACE TEMPERATURE SET POINT OF 75°F (ADJ.); THE HP SHALL ENERGIZE AND OPERATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

**UNOCCUPIED MODE:**  
 THE HEAT PUMP UNIT AND FAN COIL UNIT SHALL BE DE-ENERGIZED, THE ROOM HEATING SET POINT SHALL BE RESET TO 65°F (ADJ.), AND COOLING SHALL BE LOCKED OUT.

UPON A CALL FOR HEAT FROM THE SPACE SENSOR, THE HEAT PUMP UNIT SHALL ENERGIZE AND OPERATE PER MANUFACTURER'S SEQUENCE. THE FAN COIL UNIT SUPPLY FAN SHALL BE ENERGIZED TO HIGH SPEED UTILIZING 100% RETURN AIR AND THE UNIT SHALL OPERATE TO MAINTAIN SPACE TEMPERATURE SET POINT. UPON SATISFYING THE CALL FOR HEAT, THE HEAT PUMP AND FAN COIL SHALL BE DE-ENERGIZED.

UPON LOSS OF POWER TO THE UNIT OR FAN STATUS FAILURE, THE APPROPRIATE ALARM SIGNAL SHALL BE TRANSMITTED TO THE MAIN SYSTEM CONTROLLER.

APPLICATION TABLE	
HEAT PUMP	FAN COILS
HP-1	FC-1/2/3/4/5/6
EHP-1	EFC-1

**ELEVATOR HOISTWAY VENT SEQUENCE OF OPERATION**

THE ELEVATOR HOISTWAY VENT SHALL BE CONTROLLED VIA THE FIRE ALARM AND SPACE THERMOSTAT. THE SEQUENCE LISTED BELOW SHALL BE REVERSIBLE.

UPON A SMOKE CONDITION IN THE ELEVATOR HOISTWAY AND/OR THE ELEVATOR MACHINE ROOM AS SIGNALLED BY THE FIRE ALARM CONTROL PANEL, THE MOTOR OPERATED DAMPER SHALL OPEN. THE HOISTWAY DAMPER SHALL BE ABLE TO BE CONTROLLED MANUALLY THROUGH THE FIRE ALARM CONTROL PANEL.

UPON SENSING A SPACE TEMPERATURE ABOVE THE MAXIMUM SET POINT OF 95°F (ADJ.) THE MOTORIZED DAMPER SHALL OPEN FULLY.

APPLICATION TABLE	
MOTORIZED DAMPER	

**ELECTRIC UNIT HEATER SEQUENCE OF OPERATION**

APPLICATION TABLE	
ELECTRIC UNIT HEATER	
EUH-1	

THE CABINET UNIT HEATER SHALL BE CONTROLLED THROUGH INTEGRAL THERMOSTAT. THE SEQUENCE LISTED BELOW IS REVERSIBLE UNLESS NOTED OTHERWISE.

**HEATING MODE:**  
 THE UNIT SHALL OPERATE TO MAINTAIN THE SPACE AIR TEMPERATURE SET POINT (ADJ.)

UPON A CALL FOR HEATING FROM THE THERMOSTAT THE UNIT FAN SHALL ENERGIZE. AFTER SHORT DELAY THE ELECTRIC HEATING ELEMENT SHALL ENERGIZE AND OPERATE TO MAINTAIN SPACE TEMPERATURE SET POINT (ADJ.)

**GAS FURNACE SEQUENCE OF OPERATION**

APPLICATION TABLE	
GAS FIRED FURNACE & AIR COOLED CONDENSING UNIT	
GF-3/4 & ACCU-3/4	

THE GAS FIRED FURNACE AND AIR COOLED CONDENSING UNIT SHALL BE OPERATED THROUGH AN APPLICATION SPECIFIC CONTROLLER. THE SEQUENCE LISTED BELOW IS REVERSIBLE UNLESS NOTED OTHERWISE.

**OCCUPIED HOURS:**  
 THE OUTDOOR AIR DAMPER SHALL OPEN, THE SUPPLY FAN SHALL BE ENERGIZED AND OPERATE CONTINUOUSLY, THE CONDENSING UNIT & FURNACE SHALL DE-ENERGIZE AND OPERATE AS NECESSARY.

IN HEATING MODE, THE FURNACE SHALL OPERATE THE STAGES OF GAS HEATING PER THE MANUFACTURER'S CONTROL SEQUENCE TO MAINTAIN THE SPACE TEMPERATURE SET POINT OF 68°F (ADJUSTABLE).

IN COOLING MODE, THE ACCU SHALL ENERGIZE AND OPERATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

**UNOCCUPIED HOURS:**  
 THE FURNACE AND CONDENSING UNIT SHALL BE DE-ENERGIZED AND THE OUTDOOR AIR DAMPER SHALL CLOSE FULLY. UPON A CALL FOR HEAT FROM THE SPACE THERMOSTAT, THE FURNACE SHALL BE ENERGIZED AND THE UNIT SHALL OPERATE PER THE MANUFACTURER'S CONTROL SEQUENCE TO MAINTAIN THE SPACE TEMPERATURE SET POINT OF 55°F (ADJUSTABLE) UTILIZING 100% RE-CIRCULATED AIR. COOLING SHALL BE LOCKED OUT.

**ALARM:**  
 WHEN THE FURNACE'S FREEZE-STAT SENSES A LOW TEMPERATURE CONDITION OR IF THE SMOKE DETECTOR SENSES A SMOKE CONDITION, THE FURNACE AND CONDENSING UNIT SHALL BE DE-ENERGIZED, THE OUTDOOR AIR DAMPER SHALL CLOSE FULLY.

**KITCHEN MAKE-UP AIR SEQUENCE OF OPERATION**

APPLICATION TABLE	
KITCHEN MAKE-UP AIR FAN	
SF-1, EHC-1	

THE FAN COIL UNITS SHALL BE OPERATED THROUGH THE APPLICATION SPECIFIC CONTROLLER. THE SEQUENCE LISTED BELOW IS REVERSIBLE UNLESS OTHERWISE NOTED.

**DRYER OPERATION:**  
 UPON SENSING NEGATIVE PRESSURE CONDITION WITHIN THE SPACE, THE SUPPLY FAN SHALL ENERGIZE AND THE OUTDOOR AIR DAMPERS SHALL OPEN 100%. THE SUPPLY FAN SHALL MODULATE SPEED TO MAINTAIN DIFFERENTIAL PRESSURE SET POINT WITHIN THE SPACE.

**HEATING:**  
 THE ELECTRIC HEATING COIL SHALL ENERGIZE AND OPERATE TO MAINTAIN A DISCHARGE AIR TEMPERATURE SET POINT OF 65°F (ADJUSTABLE).

**GAS FURNACE SEQUENCE OF OPERATION**

APPLICATION TABLE	
GAS FIRED FURNACE & AIR COOLED CONDENSING UNIT	
GF-1/2 & ACCU-1/2	

THE GAS FIRED FURNACE AND AIR COOLED CONDENSING UNIT SHALL BE OPERATED THROUGH AN APPLICATION SPECIFIC CONTROLLER. THE SEQUENCE LISTED BELOW IS REVERSIBLE UNLESS NOTED OTHERWISE.

**OCCUPIED HOURS:**  
 THE OUTDOOR AIR DAMPER SHALL OPEN TO THE MINIMUM VENTILATION POSITION, THE SUPPLY FAN SHALL BE ENERGIZED AND OPERATE CONTINUOUSLY, THE CONDENSING UNIT & FURNACE SHALL DE-ENERGIZE AND OPERATE AS NECESSARY.

IN HEATING MODE, THE FURNACE SHALL OPERATE THE STAGES OF GAS HEATING PER THE MANUFACTURER'S CONTROL SEQUENCE TO MAINTAIN THE SPACE TEMPERATURE SET POINT OF 68°F (ADJUSTABLE).

IN COOLING MODE, IF THE RETURN AIR ENTHALPY IS LOWER THAN THE OUTDOOR AIR ENTHALPY, THE OUTDOOR, RETURN, AND EXHAUST AIR DAMPERS SHALL MODULATE TO LOWER THE SUPPLY AIR TEMPERATURE (ECONOMIZER OPERATION) BUT NO LOWER THAN 55°F (ADJUSTABLE). IF FURTHER COOLING IS REQUIRED OR IF THE RETURN/EXHAUST AIR ENTHALPY IS HIGHER THAN THE OUTDOOR AIR ENTHALPY, THE OUTDOOR, RETURN, AND EXHAUST AIR DAMPERS SHALL MODULATE TO THE MINIMUM VENTILATION POSITION; THE ACCU SHALL ENERGIZE AND OPERATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

**UNOCCUPIED HOURS:**  
 THE FURNACE AND CONDENSING UNIT SHALL BE DE-ENERGIZED AND THE OUTDOOR AIR DAMPER AND EXHAUST AIR DAMPER SHALL CLOSE FULLY. UPON A CALL FOR HEAT FROM THE SPACE THERMOSTAT, THE FURNACE SHALL BE ENERGIZED AND THE UNIT SHALL OPERATE PER THE MANUFACTURER'S CONTROL SEQUENCE TO MAINTAIN THE SPACE TEMPERATURE SET POINT OF 55°F (ADJUSTABLE) UTILIZING 100% RE-CIRCULATED AIR. COOLING SHALL BE LOCKED OUT.

**ALARM:**  
 WHEN THE FURNACE'S FREEZE-STAT SENSES A LOW TEMPERATURE CONDITION OR IF THE SMOKE DETECTOR SENSES A SMOKE CONDITION, THE FURNACE AND CONDENSING UNIT SHALL BE DE-ENERGIZED, THE OUTDOOR AIR DAMPER SHALL CLOSE FULLY.

**ENERGY RECOVERY UNIT SEQUENCE OF OPERATION**

APPLICATION TABLE	
ENERGY RECOVERY UNIT	
ERV-1, EHC-1	

THE ENERGY RECOVERY UNIT SHALL BE CONTROLLED THROUGH THE APPLICATION SPECIFIC CONTROLLER. THE SEQUENCE LISTED BELOW IS REVERSIBLE UNLESS NOTED OTHERWISE.

**OCCUPIED HOURS:**  
 ENERGY RECOVERY UNIT: THE UNIT'S SUPPLY AND EXHAUST FANS SHALL BE ENERGIZED AND OPERATE CONTINUOUSLY; AND THE OUTDOOR AIR AND EXHAUST AIR DAMPERS SHALL BE OPEN.

**DEFROST CYCLE** - THE UNIT SHALL BE PROVIDED WITH A DEFROST CYCLE DURING THE WINTER OPERATION. DEFROST CONTROLL SHALL BE TIMED OPERATION.

**HEATING** - UPON THE ERV BEING ENERGIZED, THE ELECTRIC HEATING COIL SHALL ENERGIZE AND OPERATE TO MAINTAIN A DISCHARGE AIR TEMPERATURE SET POINT OF 70°F (ADJUSTABLE).

**UNOCCUPIED HOURS:** ENERGY RECOVERY UNIT: THE UNIT'S SUPPLY AND EXHAUST FANS SHALL BE DE-ENERGIZED AND OA & EA DAMPERS SHALL CLOSE.

**ALARM:** WHEN THE UNIT'S FREEZESTAT SENSES A LOW TEMPERATURE CONDITION. THE UNIT'S FANS SHALL BE DE-ENERGIZED; THE UNIT'S OUTDOOR AIR DAMPER AND EXHAUST DAMPER SHALL CLOSE.

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FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



TOWN OF TYNGSBOROUGH  
 25 BRYANT'S LANE  
 TYNGSBOROUGH, MA 01879

Drawing Title:

MECHANICAL SEQUENCES OF OPERATION

Revisions:

NOT FOR CONSTRUCTION

BIDDING DOCUMENTS

Date: 10/24/2018  
 Project Number: 17009  
 Project Manager: WJS  
 Drawn By: DLC  
 Scale: NTS

M0-04



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# FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



TOWN OF TYNGSBOROUGH  
25 BRYANTS LANE  
TYNGSBOROUGH, MA 01879

Drawing Title:

## MECHANICAL BASEMENT LEVEL DEMOLITION PLAN

Revisions:

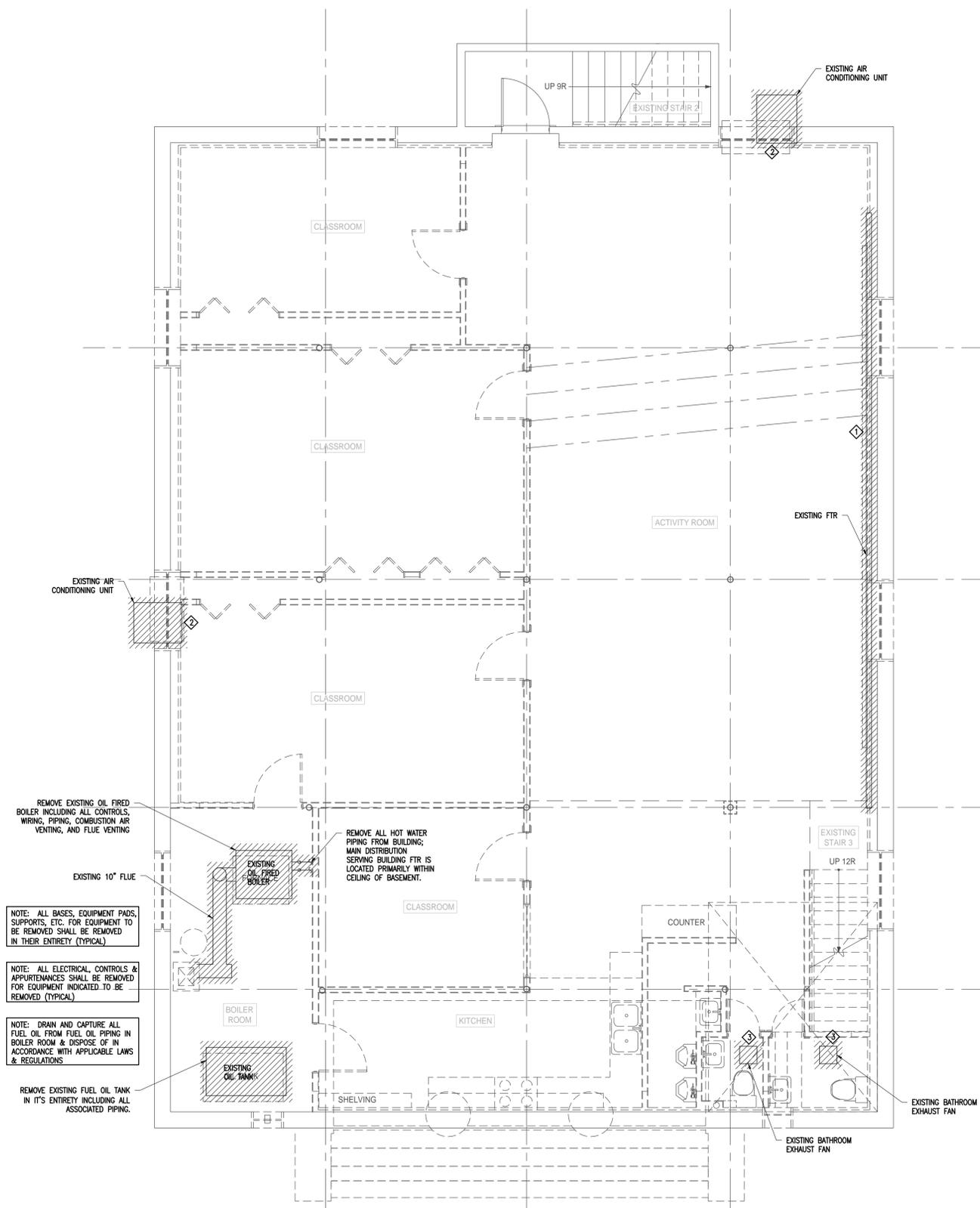
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Submission:

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# MI-00



**MECHANICAL DEMOLITION KEY PLAN**

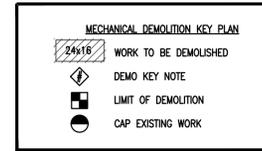
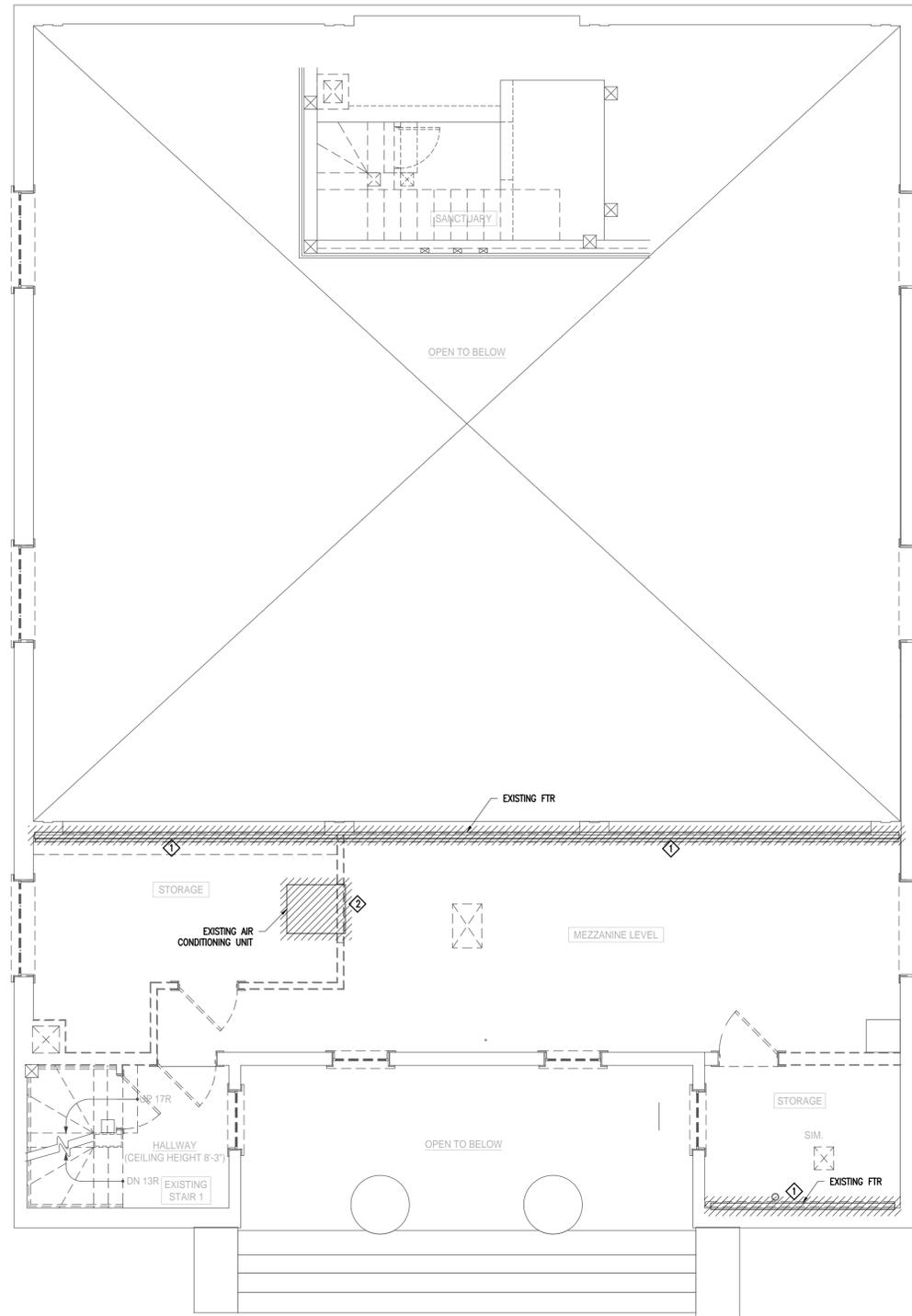
- WORK TO BE DEMOLISHED
- DEMO KEY NOTE
- LIMIT OF DEMOLITION
- CAP EXISTING WORK

- MECHANICAL DEMOLITION KEYNOTES:**
- ◇ REMOVE EXISTING FIN TUBE RADIATOR IN IT'S ENTIRETY INCLUDING ALL PIPING, CONTROLS, AND WIRING.
  - ◇ REMOVE EXISTING THRU WALL AIR CONDITIONING UNIT IN IT'S ENTIRETY.
  - ◇ REMOVE EXISTING BATHROOM EXHAUST FAN IN IT'S ENTIRETY INCLUDING ALL CONTROLS, WIRING, AND DUCTWORK.

- MECHANICAL DEMOLITION GENERAL NOTES:**
1. EXISTING HOT WATER SYSTEM TO BE REMOVED INCLUDING ALL EQUIPMENT, PIPING, CONTROLS, WIRING, AND VENTING.

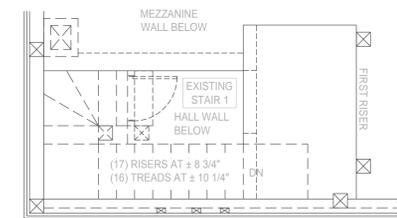
- REMOVE EXISTING OIL FIRED BOILER INCLUDING ALL CONTROLS, WIRING, PIPING, COMBUSTION AIR VENTING, AND FLUE VENTING
- EXISTING 10" FLUE
- EXISTING OIL FIRED BOILER
- REMOVE ALL HOT WATER PIPING FROM BUILDING; MAIN DISTRIBUTION SERVING BUILDING FTR IS LOCATED PRIMARILY WITHIN CEILING OF BASEMENT.
- EXISTING STAIR 3 UP 12R
- NOTE: ALL BASES, EQUIPMENT PADS, SUPPORTS, ETC. FOR EQUIPMENT TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY (TYPICAL)
- NOTE: ALL ELECTRICAL CONTROLS & APPURTENANCES SHALL BE REMOVED FOR EQUIPMENT INDICATED TO BE REMOVED (TYPICAL)
- NOTE: DRAIN AND CAPTURE ALL FUEL OIL FROM FUEL OIL PIPING IN BOILER ROOM & DISPOSE OF IN ACCORDANCE WITH APPLICABLE LAWS & REGULATIONS
- REMOVE EXISTING FUEL OIL TANK IN IT'S ENTIRETY INCLUDING ALL ASSOCIATED PIPING.





- MECHANICAL DEMOLITION KEYNOTES:**
- ◇ REMOVE EXISTING FIN TUBE RADIATOR IN IT'S ENTIRETY INCLUDING ALL PIPING, CONTROLS, AND WIRING.
  - ◇ REMOVE EXISTING THRU WALL AIR CONDITIONING UNIT IN IT'S ENTIRETY.

- MECHANICAL DEMOLITION GENERAL NOTES:**
1. EXISTING HOT WATER SYSTEM TO BE REMOVED INCLUDING ALL EQUIPMENT, PIPING, CONTROLS, WIRING, AND VENTING.



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## FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



TOWN OF TYNGSBOROUGH  
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Drawing Title:

## MECHANICAL MEZZANINE LEVEL DEMOLITION PLAN

Revisions:

**NOT FOR CONSTRUCTION**

Submission:

## BIDDING DOCUMENTS

Date: 10/24/2018  
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 Project Manager: WJS  
 Drawn By: DLC  
 Scale: 1/4"=1'-0"

# MI-02



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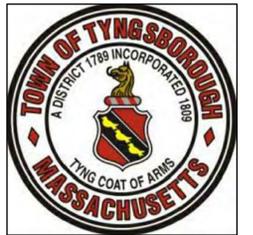
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### FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



TOWN OF  
TYNGSBOROUGH  
25 BRYANTS LANE  
TYNGSBOROUGH, MA 01879

Drawing Title:

### MECHANICAL BASEMENT LEVEL NEW WORK PLAN

Revisions:

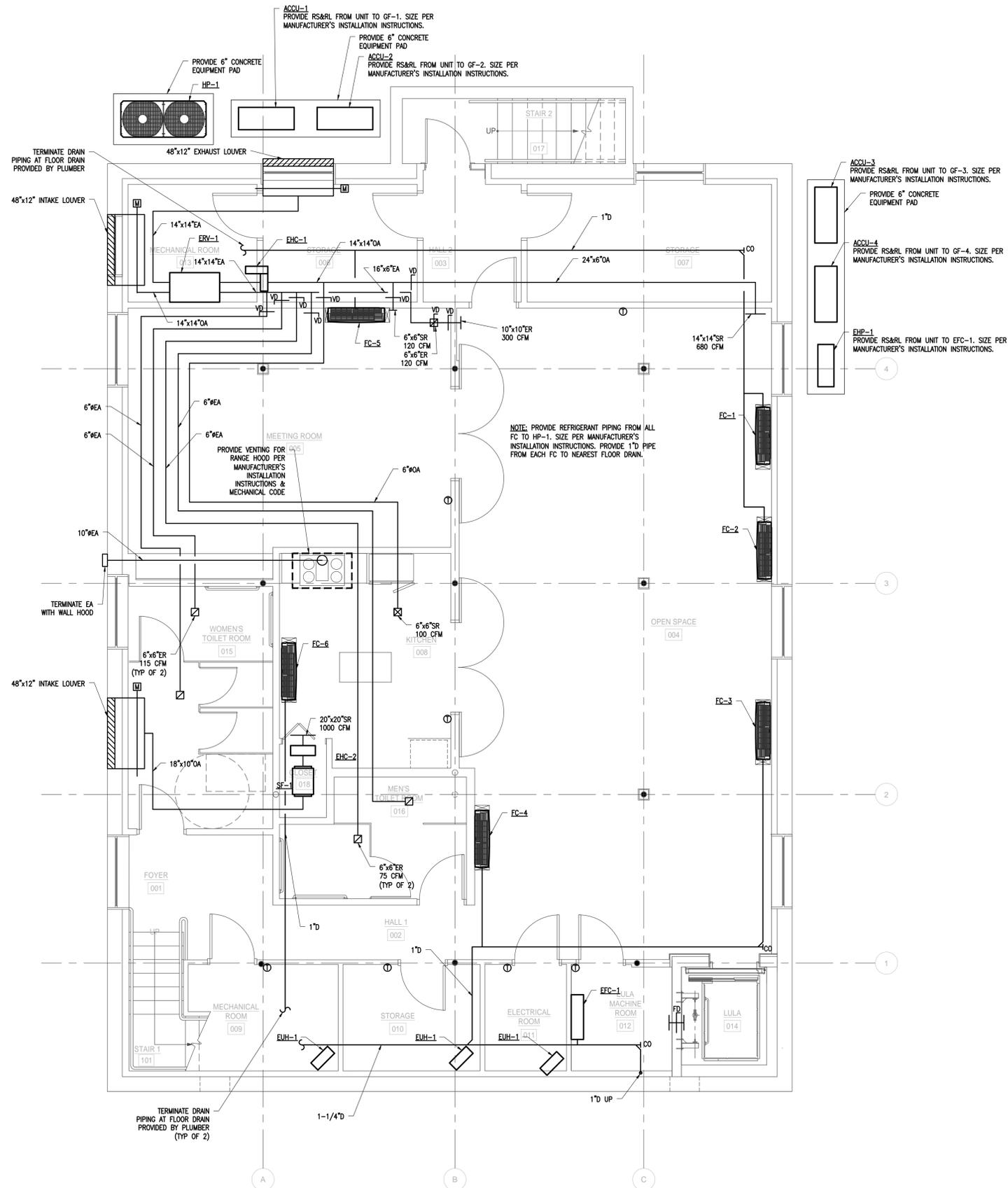
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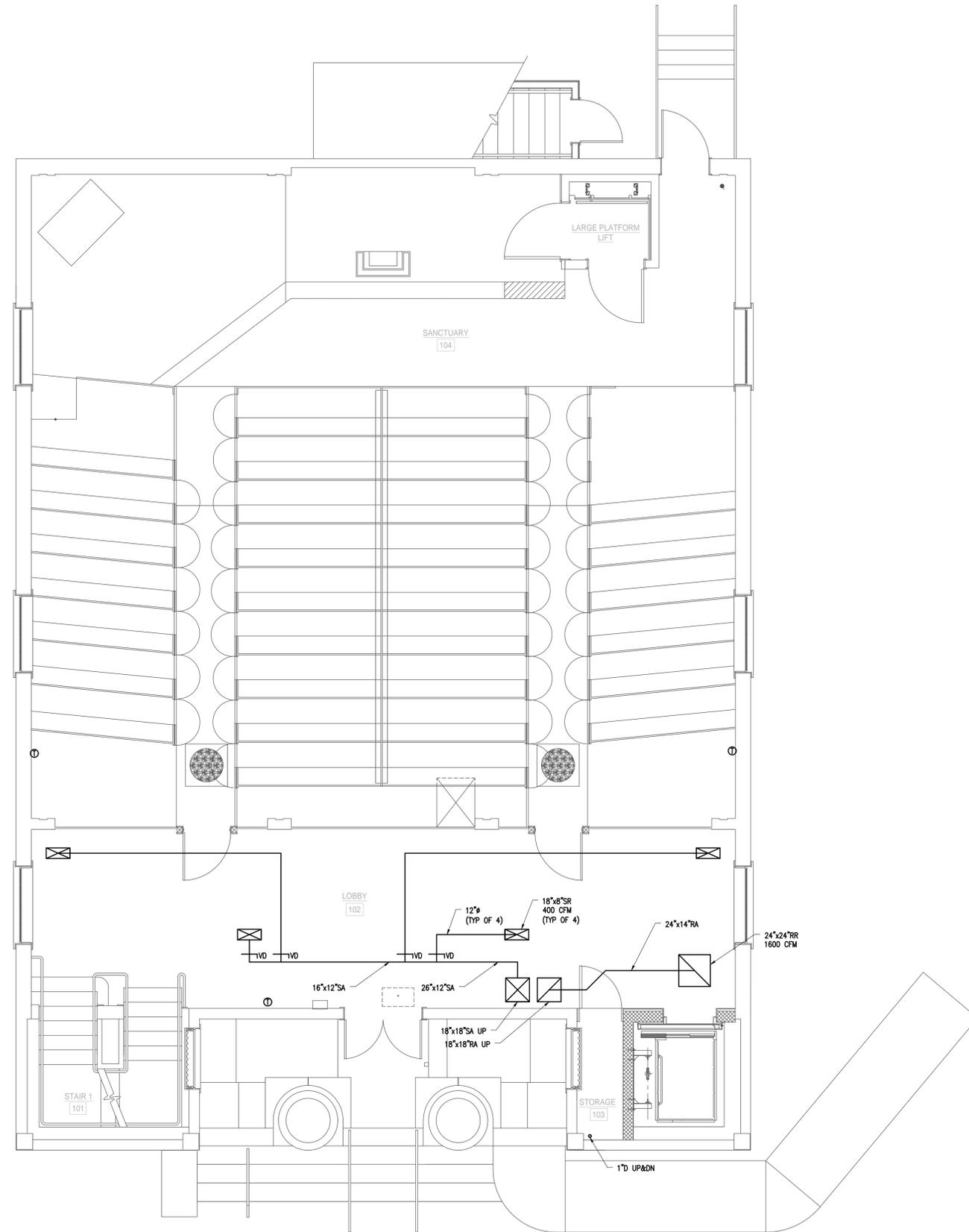
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Date: 10/24/2018  
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# M2-00





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**FIRST PARISH  
MEETING HOUSE  
INTERIOR  
RENOVATION**



**TOWN OF  
TYNGSBOROUGH**  
25 BRYANTS LANE  
TYNGSBOROUGH, MA 01879

Drawing Title:  
**MECHANICAL  
FIRST FLOOR  
NEW WORK PLAN**

Revisions:  
**NOT FOR  
CONSTRUCTION**

Submission:  
**BIDDING  
DOCUMENTS**

Date: 10/24/2018  
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Project Manager: WJS  
Drawn By: DLC  
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**M2-01**



## GENERAL SPECIFICATIONS

- CONDITIONS OF THE CONTRACT AND DIVISION 1, GENERAL REQUIREMENTS APPLY TO WORK SHOWN ON THESE DRAWINGS. EXAMINE DRAWINGS AND OTHER SPECIFICATIONS FOR REQUIREMENTS THAT AFFECT WORK SHOWN ON THESE DRAWINGS.
- PROVIDE ITEMS REFERRED TO IN SINGULAR NUMBER IN CONTRACT DOCUMENTS IN QUANTITIES NECESSARY TO COMPLETE WORK.
- VISIT SITE AND EXAMINE CONDITIONS UNDER WHICH WORK MUST BE PERFORMED. REPORT ADVERSE CONDITIONS IN WRITING TO ARCHITECT. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS INCLUDING PREPARATORY WORK DONE BY OTHERS.
- PERFORM WORK AND PROVIDE MATERIALS AND EQUIPMENT AS SHOWN ON DRAWINGS. COORDINATE ELECTRICAL WORK WITH WORK SHOWN ON THESE DRAWINGS.
- GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.
- PERFORM WORK AS REQUIRED BY CODES, REGULATIONS AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAWFUL JURISDICTION.
- MATERIAL AND EQUIPMENT SHALL BE UL, NEMA, ANSI, IEEE, ADA & CEM APPROVED FOR INTENDED SERVICE. MATERIAL AND INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND STATE ELECTRICAL CODE.
- MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET MUST BE COMPLETE, CURRENT AND AVAILABLE FOR INSPECTION WHEN REQUESTIONS FOR PAYMENT ARE SUBMITTED.
- GUARANTEE WORK IN WRITING FOR ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. REPAIR OR REPLACE DEFECTIVE MATERIALS OR INSTALLATION AT NO COST TO OWNER. CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE AT NO COST TO OWNER.
- SUBMIT GUARANTEE TO ARCHITECT BEFORE FINAL PAYMENT. STATEMENT OF GUARANTEE REQUIREMENTS SHALL NOT BE INTERPRETED TO LIMIT OWNER'S RIGHTS UNDER LAW AND THIS CONTRACT.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. PROVIDE INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS BUT NOT SHOWN ON PLANS, AND VICE VERSA, AS IF EXPRESSLY REQUIRED ON BOTH.
- UTILIZE MOLDED CASE CIRCUIT BREAKERS. MINIMUM INTERRUPTING CAPACITY SHALL BE 10,000 AMPS SYMMETRICAL AT 240 VOLTS.
- TEMPORARY LIGHT AND POWER SHALL BE PROVIDED ON SITE BY THE ELECTRICAL CONTRACTOR. COST OF ELECTRICITY SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- ADDRESS QUESTIONS REGARDING DRAWINGS TO ARCHITECT IN WRITING BEFORE AWARD OF CONTRACT. OTHERWISE, ARCHITECT INTERPRETATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.
- SUBMIT SHOP DRAWINGS AND PRODUCT DATA WITHIN THIRTY (30) DAYS AFTER AWARD OF CONTRACT. CHECK, STAMP AND MARK WITH PROJECT NAMES SUBMITTALS BEFORE TRANSMITTING TO ARCHITECT. INDICATE DEVIATIONS FROM CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL BE PROVIDED FOR ALL EQUIPMENT SHOWN ON THE DRAWINGS. PROVIDE SHOP DRAWINGS ON LIGHTING, PANELBOARDS, CIRCUIT BREAKERS, CONDUIT, WIRING DEVICES, LIGHTING CONTROL DEVICES, CABLE AND CONDUCTORS, FIRE ALARM INCLUDING BATTERY CALCULATIONS, RISER DIAGRAM, EQUIPMENT CUTS AND DISCONNECTS.
- DEVIATION FROM CONTRACT DOCUMENTS, OR PROPOSED SUBSTITUTION OF MATERIALS OR EQUIPMENT FOR THOSE SPECIFIED, SHALL BE REQUESTED IN SEPARATE LETTER, WHETHER DEVIATIONS ARE DUE TO FIELD CONDITIONS, STANDARD SHOP PRACTICE, OR OTHER CAUSE.
- SUBSTITUTIONS FOR SCHEDULED LIGHTING EQUIPMENT WILL BE REJECTED UNLESS SUBSTITUTION SUBMITTAL IS RECEIVED WITHIN TEN (10) DAYS AFTER CONTRACT AWARD.
- ELEVATIONS AND FLOOR PLANS OF ALL ELECTRIC ROOMS, WITH PROPOSED MANUFACTURER'S EQUIPMENT, SHALL BE INCLUDED WITHIN SWITCHGEAR SUBMITTAL. SHOP DRAWINGS WILL NOT BE APPROVED WITHOUT VERIFICATION THAT THE PROPOSED ELECTRICAL EQUIPMENT CAN FIT WITHIN THE LIMITS OF THE ELECTRICAL ROOMS INDICATED ON THE ARCHITECTURAL BACKGROUNDS.
- SCHEDULE AT LEAST TEN (10) WORKING DAYS, EXCLUSIVE ON TRANSMITTAL TIME FOR SUBMITTAL REVIEW.
- ALL WIRING SHALL BE RUN CONCEALED UNLESS SPECIFIED OTHERWISE.
- ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE.
- ALL COMPONENTS SHOWN ON THE RISER DIAGRAMS, BUT NOT ON THE PLAN OR VICE VERSA, SHALL BE INCLUDED AS IF SHOWN ON BOTH.
- LOCATION OF MECHANICAL EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL DRAWINGS.
- ALL RACEWAY RUNNING THROUGH BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.
- CONDUIT HOMERUNS SHOWN ON THE DRAWING WITH MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL NOT INSTALL MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS IN A RACEWAY UNLESS DONE SO STRICTLY BY THE NATIONAL ELECTRICAL CODE AS AMENDED BY THE STATE.
- THE ELECTRICAL CONTRACTOR SHALL CONSULT AND COOPERATE WITH CONTRACTORS OF OTHER TRADES TO AVOID ANY INTERFERENCE IN THE INSTALLATION OF THEIR RESPECTIVE EQUIPMENT. CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ARCHITECT.
- BRANCH CIRCUIT WIRING MAY NOT BE SHOWN GRAPHICALLY ON DRAWINGS AND MAY BE INDICATED BY CIRCUIT NUMBERS BESIDE FIXTURES, DEVICES AND EQUIPMENT. PROVIDE COMPLETE WIRING SYSTEM WHETHER OR NOT INDICATED GRAPHICALLY. PHASE BALANCE ALL PANELBOARDS IN FIELD. CIRCUIT NUMBERS ARE DIAGRAMMATIC, UTILIZE AVAILABLE SPACE OR PROVIDE ADDITIONAL BREAKERS AND PANELBOARDS AS NECESSARY.
- ALL NEW WIRING SHALL BE TYPE THHN/THWN RATED 75-90°C, 600V, WET-DRY LOCATIONS. MINIMUM BRANCH CIRCUIT WIRING SHALL BE NO. 12 AWG SOLID COPPER. BRANCH CIRCUITS LONGER THAN 150 FEET FOR 120 VOLTS SHALL BE AT LEAST NO. 10 AWG FROM PANEL TO LAST OUTLET.
- ALL NEW EXPOSED INTERIOR WIRING ABOVE 8'-0" NOT EXPOSED TO DAMAGE SHALL BE INSTALLED IN ELECTRIC METALLIC TUBING. ALL WIRING IN CONCRETE SLABS OR EXPOSED IN ROOM BELOW 8'-0" OR EXPOSED TO DAMAGE SHALL BE INSTALLED IN RIGID STEEL CONDUIT. EXTERIOR WIRING SHALL BE IN GALVANIZED RIGID METALLIC CONDUIT.
- INTERRUPTIONS TO EXISTING ELECTRIC SERVICES AND SYSTEMS SHALL BE AS SHORT AS POSSIBLE AND AT A TIME AND DURATION APPROVED BY THE ARCHITECT OR OWNER. INCLUDE ALL PREMIUM TIME ASSOCIATED WITH INTERRUPTIONS, TWENTY-FOUR (24) HOUR NOTICE IS REQUIRED.
- ALL GROUNDING SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AS AMENDED BY THE STATE OF MASSACHUSETTS.
- ALL FIREPROOFING FOR ELECTRICAL PENETRATIONS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- SYSTEM FEEDERS AND BRANCH CIRCUITS THAT PASS THROUGH ALTERED AREAS AND SERVE OTHER AREAS SHALL BE MAINTAINED.
- PROVIDE NEW TYPED IDENTIFICATION DIRECTORY IN PANELBOARDS INDICATING CIRCUIT FUNCTION OR EQUIPMENT SERVED. LABEL ALL ELECTRICAL PANELS, DISCONNECT SWITCHES AND OTHER EQUIPMENT WITH ENGRAVED VINYL PLATES. NAMEPLATE LETTERING SHALL BE 1/4" MINIMUM.
- PANELBOARDS SHALL BE DOOR-IN-DOOR CONSTRUCTION WITH COPPER BUS. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC, BOLT-ON. PANELBOARDS AND BREAKERS SHALL BE CUTLER HAMMER, SQUARE 'D', G.E. OR SIEMENS. PROVIDE TYPE IDENTIFICATION DIRECTORY CARDS IN PANELBOARD INDICATING CIRCUIT FUNCTION OR EQUIPMENT SERVED.
- DISCONNECT SWITCHES SHALL BE HEAVY DUTY (HD), SIDE OPERATED WITH INTERLOCKING COVER, G.E., SQUARE 'D', CUTLER HAMMER OR SIEMENS OR EQUAL.
- ALL WIRING (LOW VOLTAGE, TEL/DATA, FIRE ALARM, POWER BRANCH CIRCUIT) SHALL BE PLENUM RATED; NO EXCEPTIONS. NON-PLENUM RATED CABLES OF ANY KIND SHALL NOT BE PROVIDED.
- PROVIDE UL LISTED MOLDABLE PUTTY PADS TO SEAL ANNULAR SPACES/PENETRATIONS AROUND ALL JUNCTION BOXES.

## GENERAL NOTES

- REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL DEVICES.
- ALL FLOOR, MASONRY WALLS AND STRUCTURAL CEILING PENETRATIONS SHALL BE SLEEVED.
- PROVIDE FIRE/MOISTURE SEAL FOR WALL, FLOOR OR CEILING PENETRATIONS.
- DO NOT LAY CABLES OR RACEWAY ON, OR SUPPORT FROM SUSPENDED CEILING OR PIPING AND DUCTWORK.
- OUTLET BOXES SHALL BE MOUNTED FLUSH. CONDUIT SHALL BE RUN CONCEALED. WHERE WALLS ARE BLOCK, DEVICES AND WIRING SHALL BE SURFACE MOUNTED. PROVIDE WIREMOLD OR EQUAL TO SURFACE MOUNTED RACEWAY WITH FINISHED BOXES.
- ALL WIRING WITHIN UTILITY CLOSETS MAY BE IN SURFACE MOUNTED CONDUIT. EMT MAY BE UTILIZED.
- FLEXIBLE CONDUIT CONNECTIONS SHALL BE A MAXIMUM OF 6'-0".
- MC TYPE CONDUCTOR WITH INTEGRAL GROUND WIRE MAY BE UTILIZED FOR POWER AND LIGHTING CIRCUITS. MC CABLE SHALL BE UTILIZED ONLY WHERE COMPLETELY CONCEALED.
- STEEL OR FIRE-RATED ELECTRICAL BOXES (SWITCHES, OUTLETS, JUNCTION BOXES, ETC.) SHALL BE PROVIDED AND INSTALLED IN ALL FIRE RATED ASSEMBLIES AS IN ACCORDANCE WITH BUILDING AND ELECTRICAL CODES. UL LISTED MOLDABLE PUTTY PADS OR FIREBLOCK/SPRAY FOAM INSULATE SHALL BE USED TO SEAL ALL ANNULAR SPACES/PENETRATIONS AROUND OUTLET BOXES. FIRE RATED ASSEMBLIES INCLUDE EXTERIOR WALLS, FIRE-RATED WALLS, FLOOR/CEILING ASSEMBLIES AND ROOF/CEILING ASSEMBLIES.
- RECESSED ELECTRICAL ENCLOSURES SUCH AS BUT NOT LIMITED TO; PANELBOARDS, LOW VOLTAGE MEDIA CENTERS, ETC. SHALL BE PROVIDED WITH FIRE-RATED BOXES WHERE INSTALLED IN FIRE-RESISTANCE-RATED ASSEMBLIES. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE-RATED ASSEMBLIES.

## FIRE ALARM NOTES

- THE ELECTRICAL CONTRACTOR SHALL COMPLETE A CERTIFICATE CERTIFYING THAT THE SYSTEM HAS BEEN 100 PERCENT TESTED AND FUNCTIONS IN COMPLETE COMPLIANCE WITH THE SYSTEM SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. THE CERTIFICATE SHALL BE SIGNED BY THE INSTALLER, ELECTRICAL CONTRACTOR AND THE OWNER. AFTER RECEIPT OF THE CERTIFICATION, THE FIRE PREVENTION OFFICER AND/OR THE FIRE ALARM SUPERVISOR WILL CONDUCT AN INSPECTION IN THE COMPANY OF THE INSTALLER AND A REPRESENTATIVE OF THE OWNER WITHIN SCOPE OF WORK PLUS 10% OF EXISTING.
- ALL PULL STATIONS MUST BE OF THE DOUBLE ACTION TYPE. BREAKGLASS RODS WILL NOT BE PERMITTED.
- ALL FIRE ALARM VISUAL DEVICES SHALL BE SYNCHRONIZED.
- ALL WIRING METHODS SHALL BE AS APPROVED BY THE WIRING INSPECTOR AND THE FIRE DEPARTMENT. ALL FIRE ALARM CABLE SHALL BE PLENUM RATED.
- ALL SYSTEM COMPONENTS SHALL BE UL LISTED. IF EXISTING EQUIPMENT IS BEING UTILIZED ALL COMPONENTS MUST BE UL LISTED COMPATIBLE WITH EXISTING.
- ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA 72 SERIES PAMPHLETS, AND ALL STATE AND LOCAL CODES.
- CONTROL PANELS HAVING ZONE LABELING ON AN OUTSIDE DOOR WITH ZONE LAMPS MOUNTED ON AN INSIDE PANEL SHALL HAVE ZONE LABELING INSIDE THE PANEL ALSO. TO INDICATE ZONES WHEN DOOR IS OPENED.
- THE ELECTRICAL CONTRACTOR MUST OBTAIN AN ELECTRICAL PERMIT FROM THE TOWN BUILDING DEPARTMENT AND A PERMIT FROM THE FIRE DEPARTMENT PRIOR TO COMMENCEMENT OF EQUIPMENT INSTALLATION. A FLOOR PLAN SHOWING ALL ALARM DEVICES, PANELS, ANNUNCIATOR, A ONE-LINE WIRING DIAGRAM AND AN ANNUNCIATOR DETAIL SHOWING ZONE LABELING WILL BE REQUIRED TO BE SUBMITTED BEFORE THE FIRE DEPARTMENT ISSUES A PERMIT.
- INSTALLATION OF EQUIPMENT SHALL BE IN ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- ALL FIRE ALARM EQUIPMENT, INSTALLATION AND OPERATION SHALL BE IN CONFORMANCE WITH THE LOCAL FIRE DEPARTMENT INSTALLATION REQUIREMENTS AND SYSTEM INSTALLATION GUIDELINES.
- ALL EQUIPMENT SHOWN ON DRAWINGS IS DIAGRAMMATIC.
- PROVIDE AND INSTALL ALL NECESSARY WIRE, CONDUIT, RELAYS AND CONNECTIONS FROM ALL DUCT SMOKE DETECTORS TO THEIR ASSOCIATED RETURN AND SUPPLY FAN CONTROLLERS. UPON ACTIVATION OF A DUCT SMOKE DETECTOR, IN ADDITION TO SOUNDING THE GENERAL ALARM, THE DUCT SMOKE DETECTOR SHALL IMMEDIATELY SHUT DOWN THE ASSOCIATED FAN.
- THE FIRE ALARM SYSTEM SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY BOTH THE ENGINEER AND THE LOCAL FIRE DEPARTMENT. THE SHOP DRAWINGS MUST BE SIGNED OFF BY THE FIRE DEPARTMENT AND ENGINEER PRIOR TO ORDERING AND INSTALLATION OF EQUIPMENT.
- ABSOLUTELY NO CONNECTIONS WILL BE MADE TO THE MUNICIPAL FIRE ALARM CIRCUITS, EXCEPT BY LOCAL FIRE DEPARTMENT PERSONNEL.
- ALL JOINTS AND CONNECTIONS SHALL BE IN JUNCTION BOXES. ALL CONNECTIONS NOT ON APPROVED TERMINAL STRIPS SHALL BE SOLDERED AND TAPED. ALL JUNCTION BOXES SHALL BE PAINTED RED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT ALL CONNECTING WIRING MAINTAIN ELECTRICAL INTEGRITY, WITH NO OPEN CIRCUITS, GROUNDS, LEAKAGE OR OTHER FAULTS. CONNECTION TO THE MUNICIPAL SYSTEM WILL NOT BE PERMITTED IF ANY FAULTS EXIST, AND THE CONTRACTOR HAS THE PERMANENT RESPONSIBILITY FOR THE MAINTENANCE OF ALL SUCH WIRING FOR A ONE-YEAR PERIOD. IF FAULTS DEVELOP AFTER INSTALLATION, CORRECTION MUST BE MADE BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR AFTER THE DATE OF FINAL COMPLETION. THE FIRE DEPARTMENT MAY REQUIRE DISCONNECTION FROM THE MUNICIPAL SYSTEM UNTIL PROPER CONNECTIONS AND/OR REPAIRS ARE MADE. SUCH A DISCONNECTION MAY REQUIRE A FIRE WATCH DURING THAT TIME THE BUILDING IS WITHOUT AN ALARM SYSTEM. THIS FIRE WATCH WILL BE AT THE FIRE DEPARTMENT'S DIRECTION AND PAYMENT FOR SUCH A WATCH WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED POWER SUPPLIES FOR A COMPLETE AND OPERATIONAL SYSTEM. POWER SUPPLY CALCULATIONS SHALL BE INCLUDED IN FIRE ALARM SUBMITTAL.
- ALL EQUIPMENT SHALL BE MADE AVAILABLE FOR TEST AND INSPECTION WHEN REQUIRED BY THE FIRE DEPARTMENT.
- ALL EQUIPMENT USED SHALL BE OF A TYPE APPROVED BY THE FIRE CHIEF THROUGH THE ALARM SUPERINTENDENT AND THE FIRE PREVENTION OFFICER.
- ALL SYSTEMS SHALL BE DC, SUPERVISED, BATTERY STANDBY FIRE ALARM SYSTEM. A SEPARATE AC CIRCUIT MUST BE PROVIDED FOR THE FIRE ALARM SYSTEM. STANDBY BATTERIES AND THE CHARGING SYSTEM SHALL BE SUPERVISED.
- THE BATTERIES USED WITH THE FIRE ALARM CONTROL PANEL SHALL BE CAPABLE OF OPERATING THE PANEL FOR TWENTY-FOUR (24) HOURS WITH A FIVE (5) MINUTE RING-DOWN AT THE END OF THE TWENTY-FOUR (24) HOUR PERIOD. THE CALCULATION USED TO DETERMINE BATTERY CAPACITY SHALL BE PRESENTED TO THE FIRE DEPARTMENT AT THE TIME OF INSPECTION. PROVIDE BATTERY CALCULATIONS WITH SHOP DRAWINGS.
- ALL FIRE ALARM CONTROL PANELS SHALL HAVE A SIGN, RED IN COLOR, WITH THE WORDS "FIRE ALARM CONTROL" ENGRAVED ON IT. THE SIGN SHALL BE ON THE FRONT OF THE PANEL WITH MINIMUM ONE (1) INCH LETTERS.
- UPON ACTIVATION OF ANY FIRE ALARM DEVICE, THE CONTROL PANEL SHALL SOUND THE EVACUATION SIGNALS, FLASH THE EVACUATION LIGHTS, INDICATE THE ZONE OF ACTIVATION AT THE PANEL AND TRIP THE MASTER BOX.
- THE VISUAL INDICATORS OF THE EVACUATION SIGNALS MUST STAY ILLUMINATED UNTIL THE SYSTEM IS RESET.

## LIGHTING NOTES

- ALL CONDUIT, FIXTURES AND OUTLETS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD, EXCEPT WHERE SPECIFIC DIMENSIONS AND DETAILS ARE SHOWN.
- ALL LIGHTING FIXTURE SPACING DIMENSIONS AND MOUNTING HEIGHTS ARE RECOMMENDED LOCATIONS. SLIGHT VARIATIONS WHERE NECESSARY TO AVOID INTERFERENCE SHALL BE DETERMINED IN THE FIELD.
- MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
  - LIGHT SWITCHES, 4'-0" FROM FLOOR TO CENTERLINE.
  - LIGHTING PANELBOARDS, 6'-6" FROM FLOOR TO TOP.
  - LIGHT FIXTURES - SEE LIGHTING FIXTURE SCHEDULE, MOUNTING HEIGHT OF FIXTURE IS MEASURED TO BOTTOM OF REFLECTOR.
- WHERE REQUIRED, ADDITIONAL SUPPORT STEEL FOR THE LIGHTING INSTALLATION SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEISMIC RESTRAINTS SHALL BE INCLUDED AS PER STATE BUILDING CODE.
- PROVIDE SEPARATE UN-SWITCHED NEUTRAL TO ALL EXIT SIGNS, EMERGENCY BATTERY UNITS AND EMERGENCY LIGHT FIXTURES CONTAINING EMERGENCY BALLASTS.
- FOR RENOVATION PROJECTS, PROVIDE NEW BRANCH CIRCUITRY BETWEEN ALL NEW FIXTURES BEING PROVIDED, UNLESS NOTED OTHERWISE ON DRAWINGS.
- ALL EXISTING FIXTURES TO REMAIN SHALL BE CLEANED AND RE-LAMPED.
- FIRE-RATED BOXES/ENCLOSURES FOR RECESSED LIGHTING FIXTURES SHALL BE PROVIDED AND INSTALLED IN FIRE-RATED ASSEMBLIES AS IN ACCORDANCE WITH BUILDING AND ELECTRICAL CODES. FIRE-RATED ASSEMBLIES INCLUDE; FIRE-RATED WALLS, FLOOR/CEILING ASSEMBLIES AND ROOF/CEILING ASSEMBLIES. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE-RATED ASSEMBLIES.

## POWER NOTES

- ALL CONDUIT, WIRING AND ELECTRICAL EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST STANDARDS OF THE NATIONAL & STATE ELECTRICAL CODES AND ANY APPLICABLE LOCAL REGULATIONS.
- ALL CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD, EXCEPT WHERE SPECIFIC DIMENSIONS AND DETAILS ARE SHOWN. ALL CONDUIT RUNS SHALL BE RIGIDLY SUPPORTED.
- NO CONDUIT SMALLER THAN 3/4 INCH ELECTRICAL TRADE SIZE SHALL BE USED, UNLESS SPECIFICALLY CALLED FOR ON THE DRAWINGS.
- PERFORM WORK AND PROVIDE MATERIALS AND EQUIPMENT TO MAKE INSTALLATION COMPLETE IN EVERY DETAIL UNDER THIS CONTRACT WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS.
- WIRING DEVICES SHALL BE SPECIFICATION GRADE, 20 AMP, WITH SMOOTH NYLON DEVICE PLATES AS MANUFACTURED BY HUBBELL, OR EQUAL. COLOR TO MATCH EXISTING OR AS APPROVED BY ARCHITECT.
- ALL 15 AND 20 AMP, 125 AND 250 VOLT WIRING DEVICES INSTALLED WITHIN COMMERCIAL KITCHEN AND BAR AREAS SHALL BE PROVIDED WITH WEATHERPROOF IN-USE CLEAR COVER AS MANUFACTURED BY HUBBELL, OR EQUAL: HUBBELL No. MM410C.
- CONDUCTORS AND CABLE SHALL BE MINIMUM #12 AWG, 600 VOLT, COPPER WITH TYPE THHN/THWN INSULATION. PROVIDE SEPARATE GREEN GROUND IN ALL FEEDERS. WIRE SIZE #8 AWG AND LARGER SHALL BE STRANDED, #10 AWG AND SMALLER SHALL BE SOLID. COLOR CODE CONDUCTORS BLACK, RED, BLUE, WITH WHITE NEUTRAL AND GREEN GROUND EXCEPT AS NOTED FOR 120 VOLT.
- MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
  - CONVENIENCE RECEPTACLE (GENERAL), 1'-6" FROM FLOOR TO CENTERLINE.
  - CONVENIENCE RECEPTACLE (OFFICE), 1'-6" FROM FLOOR TO CENTERLINE.
  - TELEPHONE OUTLETS, 1'-6" FROM FLOOR TO CENTERLINE.
- PROVIDE SEPARATE HOT, GROUND AND NEUTRAL CONDUCTOR FOR ALL CIRCUITS CONNECTED TO ARC-FAULT CIRCUIT BREAKERS.

## DEMOLITION NOTES

- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE FULL EXTENT OF THE SCOPE OF DEMOLITION. DISCONNECT AND MAKE SAFE ALL ELECTRICAL EQUIPMENT IDENTIFIED FOR REMOVAL ON THE HVAC, PLUMBING AND FIRE PROTECTION PLANS. THE ELECTRICAL SCOPE MAY EXTEND BEYOND THE AREA DEFINED BY THE ARCHITECTURAL DEMOLITION LIMITS TO FULLY COMPLY WITH VARIOUS REQUIREMENTS DEFINED BY THESE NOTES.
- THE ELECTRICAL DEMOLITION PLANS AND DETAILS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE SUBMISSION OF BIDS TO BECOME FAMILIAR WITH THE ACTUAL CONDITIONS AND EXTENT OF WORK. DEVICES AND EQUIPMENT LOCATED ON WALLS AND/OR CEILINGS TO BE REMOVED SHALL BE DISCONNECTED AND MADE SAFE. THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY UNANTICIPATED HIDDEN CONDITIONS ENCOUNTERED DURING DEMOLITION.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL SYSTEMS OR BUILDING COMPONENTS DAMAGED DURING THE EXECUTION OF THE WORK. DAMAGE SHALL INCLUDE BUT NOT BE LIMITED TO DESTRUCTION OR DISPOSAL OF ITEMS INTENDED TO REMAIN OR TO BE SALVAGED.
- THE ELECTRICAL CONTRACTOR SHALL CIRCUIT TRACE AND LABEL ALL EXISTING BRANCH CIRCUITS AND FEEDERS WITHIN THE AREA OF DEMOLITION SCOPE PRIOR TO DE-ENERGIZING AND DISCONNECTION. ALL CIRCUITS WITHIN PANELBOARDS IDENTIFIED FOR REMOVAL SHALL BE TRACED AND LABELED TO ENSURE THAT NO AREA OUTSIDE THE DEMOLITION SCOPE LIMIT IS AFFECTED.
- THE ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL BRANCH CIRCUITS, FEEDERS AND SYSTEM COMPONENTS, WHICH ARE TO REMAIN WITHIN THE AREA OF DEMOLITION SCOPE. THERE SHALL BE NO INTERRUPTION OF SERVICE TO ANY AREA OUTSIDE THE SCOPE LIMITS WITHOUT APPROVAL FROM THE OWNER'S REPRESENTATIVE. EXISTING EQUIPMENT TO REMAIN SHALL BE LEFT IN A CODE COMPLIANT MANNER.
- THE ELECTRICAL CONTRACTOR SHALL DE-ENERGIZE AND REMOVE ALL CONDUCTORS AND RACEWAYS TO THEIR POINTS OF ORIGIN WITHIN THE AREA OF DEMOLITION SCOPE. ITEMS IDENTIFIED FOR DEMOLITION SHALL NOT BE ABANDONED IN PLACE. RACEWAYS THAT ENTER MASONRY WALLS AND FLOORS SHALL BE CUT FLUSH AT THE SURFACE FOR PATCHING BY OTHERS. ALL CIRCUIT BREAKERS ASSOCIATED WITH THE DEMOLITION SCOPE SHALL BE DE-ENERGIZED AND LABELED SPARE.
- THE ELECTRICAL CONTRACTOR SHALL TEMPORARILY SUPPORT ALL ITEMS TO REMAIN THAT ARE AFFECTED BY THE DEMOLITION OF BUILDING STRUCTURAL COMPONENTS (WALLS, CEILINGS, ETC.). TEMPORARILY SUPPORTED ITEMS SHALL BE PERMANENTLY SUPPORTED AND INSTALLED WHEN FINALIZED STRUCTURES ARE IN PLACE.
- ALL REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF UNLESS IDENTIFIED FOR REUSE. THE OWNER'S REPRESENTATIVE SHALL INSPECT ALL RETAINED ITEMS PRIOR TO PLACEMENT IN THE IDENTIFIED STORAGE LOCATION BY THE ELECTRICAL CONTRACTOR.
- THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN FULLY FUNCTIONAL DURING THE ENTIRE DEMOLITION AND CONSTRUCTION PERIOD. REUSE OF EXISTING FIRE ALARM SYSTEM RACEWAYS SHALL NOT BE ALLOWED. ALL REQUIRED SYSTEM SHUTDOWNS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE AND THE AUTHORITY HAVING JURISDICTION. DEMOLITION OF THE EXISTING SYSTEM SHALL NOT COMMENCE UNTIL THE NEW SYSTEM HAS BEEN COMPLETELY INSTALLED, TESTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- ALL DEMOLITION SCOPE ASSOCIATED WITH LOW VOLTAGE SYSTEMS INCLUDING BUT NOT LIMITED TO TELEPHONE, DATA, SECURITY, PAGING, CCTV, ETC. SHALL BE INCLUDED IN THIS CONTRACT.
- REMOVED FLUORESCENT AND HID LAMPS AND BATTERIES SHALL BE RECYCLED BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE. A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PREPARED FOR ALL DISPOSALS AND RETURNED WITH ALL APPLICABLE SIGN OFF'S PRIOR TO APPLICATION FOR FINAL PAYMENT.
- ALL BALLAST IN LIGHTING FIXTURES TO BE DISPOSED SHALL BE VERIFIED TO BE PCB FREE. ALL BALLAST MANUFACTURED PRIOR TO 1979 AND NOT LABELED AS PCB FREE SHALL BE CONSIDERED TO CONTAIN PCBs. PROVIDE WRITTEN VERIFICATION TO THE OWNER'S REPRESENTATIVE THAT CONFIRMS PCB FREE WASTE. WHERE PCB FREE WASTE CANNOT BE VERIFIED, BALLAST SHALL BE RECYCLED BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE, WITH PCB COMPONENTS ELIMINATED BY A HIGH TEMPERATURE INCINERATION. A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PREPARED FOR ALL DISPOSALS AND RETURNED WITH ALL APPLICABLE SIGN OFF'S PRIOR TO APPLICATION FOR FINAL PAYMENT. ALL HANDLING SHALL CONFORM TO EPA REQUIREMENTS. PROVIDE BREAKOUT COST FOR THIS SCOPE.



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## FIRST PARISH MEETING HOUSE INTERIOR RENOVATION



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Drawing Title:

## ELECTRICAL NOTES

Revisions:

NOT FOR  
CONSTRUCTION

Submission:

## BIDDING DOCUMENTS

Date: 10/24/2018  
Project Number: 17009  
Project Manager: JCP  
Drawn By: DCF  
Scale: NONE

# E0-01

**ABBREVIATIONS**

A/AMP	AMPERE	IMC	INTERMEDIATE METALLIC CONDUIT
AC	ALTERNATING CURRENT	JB	JUNCTION BOX
AF	AMPERE FRAME	KVA	KILOVOLT-AMPERE
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AFG	ABOVE FINISHED GRADE	LTC	LIGHTING
AIC	ARREST INTERRUPTING CAPACITY	PWR	POWER
AL	ALUMINUM	MCB	MAIN CIRCUIT BREAKER
AT	AMPERE TRIP	MEC	MASSACHUSETTS ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUGS ONLY
AWG	AMERICAN WIRE GAUGE	MTG	MOUNTING
C	CONDUIT	MTD	MOUNTED
CKT	CIRCUIT	MCC	MOTOR CONTROL CENTER
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
CU	COPPER	NS	NON-SYSTEM
CL	CENTERLINE	NTS	NOT TO SCALE
DC	DIRECT CURRENT	No. #	NUMBER
DE	DUAL ELEMENT	PC	PLUMBING CONTRACTOR
DWG	DRAWING	RPM	REVOLUTIONS PER MINUTE
EC	ELECTRICAL CONTRACTOR	RMS	ROOT MEAN SQUARE VALUE
EMH	ELECTRICAL MANHOLE	RGS	RIGID STEEL CONDUIT
ENC	ELECTRIC WATER COOLER	SF	SQUARE FOOT
EMT	ELECTRIC METALLIC CONDUIT	SN	SOLID NEUTRAL
FLMT	FLEXIBLE LIQUID TIGHT METALLIC TUBING	ST	SHUT TRIP CIRCUIT BREAKER
GC	GENERAL CONTRACTOR	SWBD	SWITCHBOARD
GND	GROUND	TYP	TYPICAL
GF	GROUND FAULT CIRCUIT BREAKER	V	VOLTS
GF1	GROUND FAULT INTERRUPTING	VA	VOLT-AMPERE
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	VFD	VARIABLE FREQUENCY DRIVE
HP	HORSEPOWER	WP	WEATHERPROOF

**BRANCH CIRCUIT AND FEEDER SYMBOLS**

	BRANCH CIRCUIT OR FEEDER CONCEALED UNLESS OTHERWISE NOTED. BRANCH CIRCUIT DIAGONAL LINES INDICATE NUMBER OR CONDUCTORS, NO DIAGONAL LINES INDICATES TWO (2) CONDUCTORS (1 PHASE AND 1 NEUTRAL). GROUND WIRE(S) NOT INDICATED. MINIMUM SIZE CONDUCTOR #12 AWG AND 3/4" CONDUIT, UNLESS OTHERWISE NOTED
	INDICATES (3) #1 AWG(PHASE), (1)#1 AWG(NEUTRAL), (1) #6 GROUND IN A 1-1/2" CONDUIT
	FLEXIBLE CONNECTION TO MOTOR OR EQUIPMENT
	HOMERUN TO PANELBOARD 'P1' CIRCUIT NUMBER 1. DIAGONAL LINES INDICATE (1) PHASE AND (1) NEUTRAL CONDUCTOR. (1) GROUNDING CONDUCTOR UNDERSTOOD.
	HOMERUN TO PANELBOARD 'P1' CIRCUIT NUMBER 1 & 3. DIAGONAL LINES INDICATE (2) PHASE AND (2) NEUTRAL CONDUCTOR. (2) GROUNDING CONDUCTOR UNDERSTOOD.
	HOMERUN TO PANELBOARD 'P1' CIRCUIT NUMBER 1, 3 & 5. DIAGONAL LINES INDICATE (3) PHASE AND (3) NEUTRAL CONDUCTOR. (3) GROUNDING CONDUCTOR UNDERSTOOD.
	HOMERUN TO PANELBOARD 'P1' CIRCUIT NUMBER 1, 3 & 5. DIAGONAL LINES INDICATE (3) PHASE AND (1) NEUTRAL CONDUCTOR. (1) GROUNDING CONDUCTOR UNDERSTOOD.
	HOMERUN TO PANELBOARD 'P1' CIRCUIT NUMBER 1, 3 & 5. DIAGONAL LINES INDICATE (3) PHASE CONDUCTORS. NEUTRAL CONDUCTOR NOT REQUIRED. (1) GROUNDING CONDUCTOR UNDERSTOOD.

**SWITCHING SYMBOLS**

	S <sub>o</sub> SINGLE POLE SWITCH, RATED 20A, 120/277V, MOUNTING HEIGHT 48" TO CENTERLINE OF TOGGLE SWITCH IN "ON" POSITION, "a" DENOTES FIXTURE SWITCH CONTROL
	S <sub>3</sub> THREE WAY SWITCH, RATED 20A, 120/277V, MOUNTING HEIGHT 48" TO CENTERLINE OF TOGGLE SWITCH IN "ON" POSITION, "a" DENOTES FIXTURE SWITCH CONTROL
	S <sub>w</sub> MANUAL MOTOR STARTER, RATED 20A, 250V, COORDINATE MOUNTING HEIGHT IN FIELD, MOUNTING HEIGHT SHALL NOT EXCEED 6'-7" AFF
	S <sub>A</sub> ATTIC LIGHT SWITCH WITH LED INDICATOR, RATED 20A, 120/277V, MOUNTING HEIGHT 72" TO CENTERLINE OF TOGGLE SWITCH IN "ON" POSITION, LED INDICATOR SHALL BE ILLUMINATED WHEN ATTIC LIGHTS ARE "ON"
	S <sub>FD</sub> FLUORESCENT DIMMER SWITCH, RATED 20A, 120/277V, MOUNTING HEIGHT 48" TO CENTERLINE OF TOGGLE SWITCH IN "ON" POSITION, "a" DENOTES FIXTURE SWITCH CONTROL
	S <sub>LD</sub> LED/LOW VOLTAGE DIMMER SWITCH, RATED 20A, 120/277V, MOUNTING HEIGHT 48" TO CENTERLINE OF TOGGLE SWITCH IN "ON" POSITION, "a" DENOTES FIXTURE SWITCH CONTROL

**SITE SYMBOLS**

	UNDERGROUND CONDUIT OR DUCTBANK, REFER TO DRAWING E___
	UTILITY POLE
	SECTION "A-A"
	SITE LIGHTING FIXTURE, REFER TO LIGHTING FIXTURE SCHEDULE

**LIGHTING FIXTURE SYMBOLS**

	LED LIGHTING FIXTURE, CEILING/SURFACE/RECESSED/PENDANT OR WALL MOUNTED. "A" DENOTES LIGHTING FIXTURE TYPE (SEE FIXTURE SCHEDULE), "2" DENOTES CIRCUIT NUMBER, "d" DENOTES SWITCH CONTROL
	COMPACT FLUORESCENT LIGHT FIXTURE, CEILING/SURFACE/RECESSED OR PENDANT MOUNTED. "B" DENOTES LIGHTING FIXTURE TYPE, "A" DENOTES CIRCUIT NUMBER, "b" DENOTES SWITCH CONTROL
	LED LIGHTING FIXTURE CONTAINS AN EMERGENCY DRIVER. SEE LIGHTING NOTE 5.
	EMERGENCY BATTERY UNIT WITH TWO (2) HEADS
	EXIT SIGN, SHADED REGION INDICATES FACE

**EXISTING EQUIPMENT DESIGNATIONS**

X	EXISTING TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS.
XM	EXISTING TO REMAIN.
XN	EXISTING EQUIPMENT TO BE REPLACED WITH NEW. CONNECT NEW EQUIPMENT TO EXISTING CIRCUIT.
XR	EXISTING EQUIPMENT TO BE RELOCATED. JUNCTION AND EXTEND EXISTING CONDUIT AND CONDUCTORS.
XL	NEW LOCATION FOR EXISTING EQUIPMENT. JUNCTION AND EXTEND CONDUIT AND CONDUCTORS AS REQUIRED.

**OCCUPANCY SENSORS**

	WALL MOUNTED OCCUPANCY SENSOR, MULTI-TECHNOLOGY, LEVITON OSSMT-MQ OR EQUAL
	CEILING MOUNTED OCCUPANCY SENSOR, LOW VOLTAGE, 360" TWO-SIDED, 1000SF COVERAGE, LEVITON LIGHTING CONTROLS No. OSC10-MOW OR EQUAL. PROVIDE "OSPxx" POWER PACK(S) AS REQUIRED FOR A COMPLETE INSTALLATION AS SHOWN ON PLAN.
	HIGH CEILING MOUNTED OCCUPANCY SENSOR, LOW VOLTAGE, 360" TWO-SIDED, 2000SF COVERAGE, LEVITON LIGHTING CONTROLS No. OSC20-R OR EQUAL. PROVIDE "OSPxx" POWER PACK(S) AS REQUIRED FOR A COMPLETE INSTALLATION AS SHOWN ON PLAN.

**FIRE ALARM SYSTEM**

	LA15 AUDIBLE/VISUAL DEVICE, TOP OF DEVICE MOUNTED NOT LESS THAN 90" AFF AND NOT LESS THAN 6" BELOW FINISHED CEILING
	LV15 VISUAL DEVICE, ENTIRE LENS MOUNTED NOT LESS THAN 80" AFF AND NOT MORE THAN 96" AFF
	MP MANUAL PULL STATION, MOUNTING HEIGHT 48" TO CENTERLINE AFF
	SD,R SMOKE DETECTOR, "D" INDICATES DUCT MOUNTED SMOKE DETECTOR, "R" INDICATES ELEVATOR RECALL, "NS" INDICATES NON-SYSTEM
	HD,F,C HEAT DETECTOR, "F" INDICATES 190" FIXED TEMPERATURE, "C" INDICATES MOUNTED ABOVE HUNG CEILING
	CD,NS CARBON MONOXIDE DETECTOR, 120 VOLT HARDWIRED WITH BATTERY BACKUP, "NS" INDICATES NON-SYSTEM
	CD,NS COMBINATION SMOKE/CARBON MONOXIDE DETECTOR, 120 VOLT HARDWIRED WITH BATTERY BACKUP, "NS" INDICATES NON-SYSTEM
	FS FLOW SWITCH
	PS PRESSURE SWITCH
	TS TAMPER SWITCH
	AB-I ALARM BELL, 120 VOLT HARDWIRED, EXTERIOR MOUNTED, WEATHERPROOF
	EB-I RED INDICATING BEACON, EXTERIOR MOUNTED, WEATHERPROOF
	RL-I REMOTE LED INDICATOR
	CM FIRE ALARM MODULE CONTROL MODULE
	MM FIRE ALARM MONITOR MODULE
	KB FIRE DEPARTMENT KEY BOX
	RTS REMOTE TEST STATION
	ANN FIRE ALARM ANNUNCIATOR PANEL
	FACP FIRE ALARM CONTROL PANEL
	SD SMOKE DAMPER

**RECEPTACLES AND OUTLETS**

	DUPLEX CONVENIENCE RECEPTACLE OUTLET, GROUNDING TYPE, RATED 20A, 125V TYPE. "5" DENOTES CIRCUIT NUMBER, MOUNTING HEIGHT 18" TO CENTERLINE AFF
	GROUND FAULT INTERRUPTING OUTLET, RATED 20A, 125V RECEPTACLE, MOUNTING HEIGHT 18" TO CENTERLINE AFF
	DUPLEX CONVENIENCE OUTLET, MOUNTING HEIGHT 42" TO CENTERLINE AFF OR 6" ABOVE COUNTER TOP
	GROUND FAULT DUPLEX RECEPTACLE, MOUNTING HEIGHT 42" TO CENTERLINE AFF OR MOUNTED 6" ABOVE COUNTER TOP
	DUPLEX CONVENIENCE RECEPTACLE OUTLET FOR MICROWAVE, TV, ETC., COORDINATE MOUNTING HEIGHT WITH ARCHITECT
	DOUBLE DUPLEX CONVENIENCE OUTLET, MOUNTING HEIGHT 18" TO CENTERLINE AFF
	SWITCHED DOUBLE DUPLEX OUTLET, MOUNTING HEIGHT 18" TO CENTERLINE AFF
	CEILING MOUNTED DUPLEX CONVENIENCE RECEPTACLE OUTLET
	CABLE TELEVISION CONNECTION, FLUSH MOUNTING 18" TO CENTERLINE AFF WITH 1 GANG BACK BOX & COVER PLATE WITH "F"-CONNECTOR
	TELEPHONE OUTLET (RJ45), FLUSH MOUNTING HEIGHT 18" TO CENTERLINE AFF WITH SINGLE GANG BACK BOX AND COVER PLATE. "W" DENOTES WALL PHONE, MOUNTING HEIGHT 5'-0"
	TELEPHONE/COMPUTER OR DATA OUTLET (RJ45), FLUSH MOUNTING 18" TO CENTERLINE AFF WITH SINGLE GANG BACK BOX AND COVER PLATE
	COMPUTER/ETHERNET OR DATA OUTLET (RJ45), FLUSH MOUNTING 18" TO CENTERLINE AFF WITH SINGLE GANG BACK BOX AND COVER PLATE
*	INDICATES 4"x4" BOX WITH 1" CONDUIT TO ABOVE HUNG CEILING WITH PULL WIRE

**MOTOR AND CONTROLS**

	MOTOR, NUMERAL INDICATES HORSEPOWER
	DISCONNECT SWITCH, NON-FUSIBLE TYPE, RATED 30A/3P, IN NEMA TYPE "1" ENCLOSURE, UNLESS OTHERWISE NOTED. "3R" DENOTES NEMA TYPE ENCLOSURE
	DISCONNECT SWITCH, FUSED TYPE, RATED 30A, 20A FUSE, 3 POLE IN NEMA TYPE "1" ENCLOSURE, UNLESS OTHERWISE NOTED
	SHUNT TRIP DISCONNECT, REFER TO ELEVATOR MANUFACTURER'S RECOMMENDATIONS
	EQUIPMENT CONTROL PANEL
	VARIABLE FREQUENCY DRIVE, FURNISHED BY THE MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.
	MOTORIZED DAMPER

**PANELBOARD AND TERMINAL CABINET**

	120/208VOLT LIGHTING OR POWER PANEL, SURFACE MOUNTED
	120/208VOLT LIGHTING OR POWER PANEL, RECESSED MOUNTED
	TELEPHONE TERMINAL 4"x8" 3/4" PLYWOOD BACKBOARD, PAINTED BLACK

**MISCELLANEOUS**

	UTILITY METER
	PHOTOCELL, MOUNTED AT HIGHEST POINT ON ROOF FACING NORTH
	TIMECLOCK, SURFACE MOUNTED
	SURFACE METAL RACEWAY, REFER TO DRAWINGS AND DETAILS
	MECHANICAL EQUIPMENT TAG, REFER TO MECHANICAL SCHEDULE



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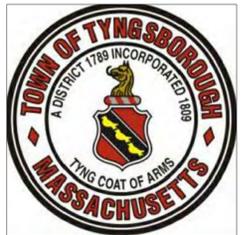
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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



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Drawing Title:

**ELECTRICAL LEGEND & ABBREVIATIONS**

Revisions:

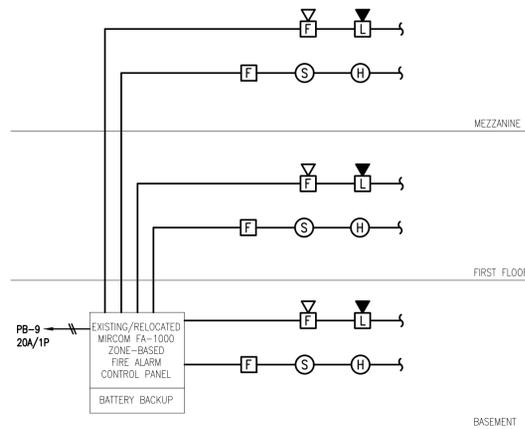
Submission:

**BIDDING DOCUMENTS**

Date: 10/24/2018  
Project Number: 17009  
Project Manager: JCP  
Drawn By: DCF  
Scale: NONE

**E0-02**

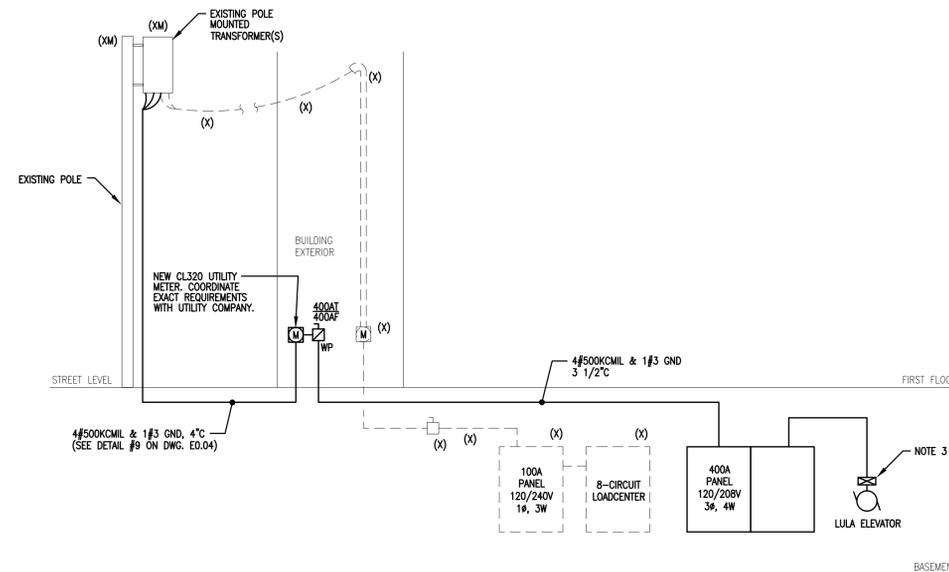
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**FIRE ALARM RISER DIAGRAM**  
N.T.S.

**NOTES:**

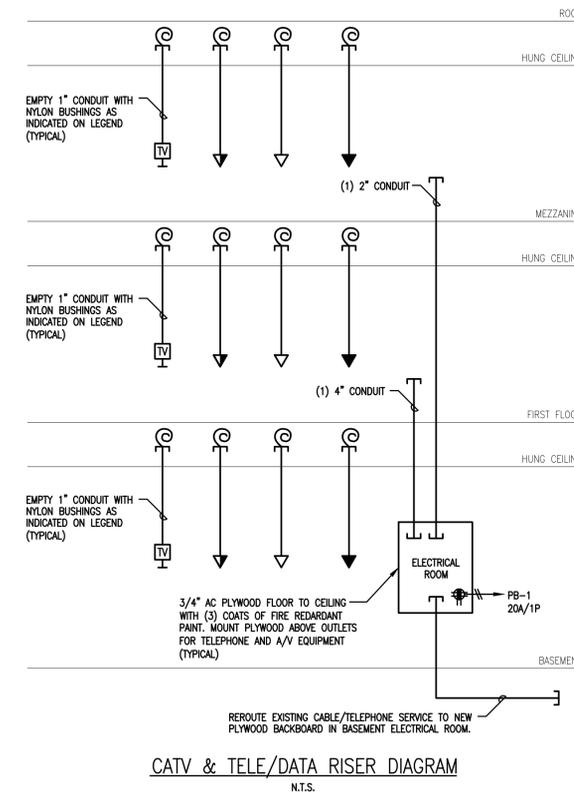
1. PROVIDE KEY BOX. ELECTRICAL CONTRACTOR SHALL PURCHASE THROUGH LOCAL FIRE DEPARTMENT.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT BREAKER HANDLE-LOCK ON POWER CIRCUITS. HANDLE LOCK SHALL ALLOW THE CIRCUIT BREAKER TO TRIP, BUT PREVENT SWITCHING OF THE CIRCUIT BREAKER TO THE "OFF" POSITION.
3. PROVIDE SMOKE DETECTOR IN VICINITY OF FIRE ALARM CONTROL PANEL, REMOTE ANNUNCIATOR. SMOKE DETECTORS IN ELEVATOR LOBBY SHALL BE PROGRAMMED AND/OR PROVIDED WITH ELEVATOR RECALL CAPABILITY.
4. MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS NOTED OTHERWISE.
5. ALL SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT OR (FIRE ALARM RATED FPLR FLEXIBLE METALLIC CABLE TYPE MC CABLE WHERE CONCEALED) AND IN ACCORDANCE WITH EQUIPMENT SUPPLIER'S APPROVED SHOP DRAWINGS AND WIRING DIAGRAMS.
6. RISER DIAGRAM DOES NOT SHOW ENTIRE SYSTEM. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF ALL SYSTEM DEVICES.
7. PROVIDE 120 VOLT POWER AND CONTROL MODULE FOR CONTROL OF SMOKE DAMPER AT TOP OF ELEVATOR SHAFT. DAMPER SHALL BE PROGRAMMED TO OPEN UPON ACTIVATION OF SMOKE DETECTOR AT ELEVATOR MACHINE ROOM, OR AS DIRECTED PROVIDE CONTROL WIRING FROM DAMPER MOTOR TO FIRE ALARM TERMINAL CABINET.
8. PROVIDE REMOTE ALARM INDICATOR OVER DOOR OF EACH LOCKED ROOM THAT CONTAINS A SMOKE OR HEAT DETECTOR WHETHER OR NOT SHOWN ON THE FLOOR PLANS: SUCH AS, ELEVATOR MACHINE ROOMS, ELECTRIC ROOMS, MECHANICAL ROOMS, IT ROOMS, ETC.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUCTORS FOR THE FOLLOWING FIRE ALARM CONTROL PANEL CONTACTS: PUMP RUNNING, PHASE REVERSAL, PHASE FAILURE, ALARM SIGNAL AND TROUBLE SIGNAL.
10. PROVIDE A 20AMP, 120 VOLT, 14 SURGE PROTECTOR EQUAL TO MCO SURGE PROTECTION MODEL NO. 415. SURGE PROTECTOR SHALL BE INSTALLED BETWEEN THE CIRCUIT BREAKER IN THE PANEL AND THE FIRE ALARM PANEL, AND IN ACCORDANCE WITH MANUFACTURER'S WIRING RECOMMENDATIONS.



**POWER RISER DIAGRAM**  
N.T.S.

**NOTES:**

1. POLE MOUNTED TRANSFORMER BY UTILITY. GROUNDING, AND SECONDARY CONDUCTORS BY ELECTRICAL CONTRACTOR. ALL FINAL CONNECTIONS AT TRANSFORMER BY UTILITY. UTILITY COMPANY IS NATIONAL GRID.
2. ELECTRICAL CONTRACTOR SHALL GROUND IN ACCORDANCE WITH NEC ARTICLE 250 AS AMENDED BY MASSACHUSETTS ELECTRICAL CODE.
3. LIMITED USE/LIMITED ACCESS (LULA) ELEVATOR CONTROLLER. REFER TO DETAIL 4 ON DRAWING E0.04 FOR REQUIREMENTS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.



**CATV & TELE/DATA RISER DIAGRAM**  
N.T.S.

PANEL 'PB', 400 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE AND GROUND															
LOAD DESCRIPTION				KVA LOAD				LOAD DESCRIPTION							
A	B	C		A	B	C		A	B	C					
REFRIGERATOR	1.00			20	1	A	2	20			SPARE				
BASEMENT LIGHTING		0.84		20	3	B	4	20			BASEMENT LIGHTING				
FIRST FLOOR LIGHTING			0.20	20	5	C	6	20	0.60	0.07	EXTERIOR LIGHTING				
MEZZ/SANCTUARY LIGHTING				20	7	A	8	20	1.00		EXISTING CHANDELIER				
F.A. PANEL		0.50		20	9	B	10	20	0.90		BASEMENT RECEPPTS				
BASEMENT RESTROOM GFI			0.36	20	11	C	12	20		0.72	BASEMENT RECEPPTS				
BASEMENT RECEPPTS		0.90		20	13	A	14	20	1.08		BASEMENT RECEPPTS				
BSMT MTG RM CNTR GFIS			0.36	20	15	B	16	20		0.36	KITCHEN RECEPPTS				
LOBBY RECEPPTS			0.54	20	17	C	18	20		0.20	GAS RANGE				
SANCTUARY RECEPPTS		1.08		20	19	A	20	20	0.90		EXTERIOR RECEPPTS				
SANCTUARY RECEPPTS			0.72	20	21	B	22	20		1.08	MEZZANINE RECEPPTS				
FCU-1, 2, 3, 4, 5 & 6			0.50	15	23	C	24	15		0.90	ERV-1				
SF-1		0.33		15	27	B	28	15		1.10	EHU-1				
EUH-1			1.10	15	29	C	30			1.10	EUH-1				
HP-1			4.30	80	31	A	32	15	1.10		EUH-1				
ACCU-1		2.87		60	33	B	34	40	2.20	2.20	ACCU-3				
ACCU-2			2.87	60	35	C	36	40	2.20	2.20	ACCU-4				
GF-4			2.87	60	37	A	38	40			GF-1				
MOTORIZED DAMPERS		0.50		15	39	B	40	15	1.40	1.40	GF-2				
GAS WATER HEATER			1.40	15	41	C	42	15	1.40	1.40	GF-3				
KITCHEN HOOD			1.44	15	43	A	44	15	0.30	0.30	EL FAUCETS/FLUSH VALVES				
SHUNT-TRIP				15	45	B	46	15			RISER AIR COMPRESSOR				
PLATFORM LIFT			1.44	15	47	C	48	15	0.50	0.50	ELEV PIT LTG/REC				
LULA ELEV.			2.50	15	49	A	50	20	0.30	0.30	EHC-1				
EHC-2			2.50	15	51	B	52	20	3.90	3.90	MOTORIZED DAMPER				
EFC-1			6.66	15	53	C	54	20	0.60	0.60	WATER COOLER				
SPACE			6.66	15	55	A	56	20	3.17	3.17	DISHWASHER				
SPACE			0.92	15	57	B	58	20			SPACE				
SPACE				15	59	C	60	20			SPACE				
SPACE				15	61	A	62	20			SPACE				
SPACE				15	63	B	64	20			SPACE				
SPACE				15	65	C	66	20			SPACE				
SPACE				15	67	A	68	20			SPACE				
SPACE				15	69	B	70	20			SPACE				
SPACE				15	71	C	72	20			SPACE				
SPACE				15	73	A	74	20			SPACE				
SPACE				15	75	B	76	20			SPACE				
SPACE				15	77	C	78	20			SPACE				
SPACE				15	79	A	80	20			SPACE				
SPACE				15	81	B	82	20			SPACE				
SPACE				15	83	C	84	20			SPACE				
SUBTOTALS				13.88				16.61				16.46			
PHASE A	36.21 KVA			TOTAL LOAD				111.98 KVA				OPTIONS:			
PHASE B	37.30 KVA											SERVICE ENTRANCE RATED			
PHASE C	38.47 KVA											FEED-THRU LUGS			

- \* PROVIDE GFI TYPE CIRCUIT BREAKER  
\*\* PROVIDE LOCK-ON TYPE CIRCUIT BREAKER

FIXTURE TYPE	DESCRIPTION	MANUFACTURER AND CATALOG NUMBER	LAMPS			VOLTAGE
			No.	WATTAGE	TYPE	
A	2'x2' RECESSED LED TROFFER	H.E. WILLIAMS 50G-S22-L26/835-AF12125-DRV-120	-	21	LED	120
AE	2'x2' RECESSED LED TROFFER WITH EMERGENCY DRIVER	H.E. WILLIAMS 50G-S22-L26/835-AF12125-EM/10W-DRV-120	-	21	LED	120
B	2'x2' RECESSED LED TROFFER	H.E. WILLIAMS 50G-S22-L43/835-AF12125-DRV-120	-	34	LED	120
BE	2'x2' RECESSED LED TROFFER WITH EMERGENCY DRIVER	H.E. WILLIAMS 50G-S22-L43/835-AF12125-EM/10W-DRV-120	-	34	LED	120
C	2'x2' SURFACE MOUNTED LED TROFFER	H.E. WILLIAMS 12-2-L43/835-AF12125-DRV-120	-	34	LED	120
CE	2'x2' SURFACE MOUNTED LED TROFFER WITH EMERGENCY DRIVER	H.E. WILLIAMS 12-2-L43/835-AF12125-EM/10W-DRV-120	-	52	LED	120
D2	2' LED STRIP	H.E. WILLIAMS 75-2-LED-L20/835-DRV-120	-	20	LED	120
D4	4' LED STRIP	H.E. WILLIAMS 75-4-LED-L50/835-DRV-120	-	44	LED	120
F	LED WALL SCENCE	CRENSHAW 4767-WBC-AB2	-	12	LED	120
G	LED WALL CYLINDER	LITHONIA OLLWU LED P1 40K MVOLT (NOTE 2)	-	14	LED	120
H	LINEAR ADA COMPLIANT LED WALL SCENCE	MAXIM LIGHTING 55538WTBZ	-	15	LED	120
J	24" ROUND SURFACE MOUNTED FLUORESCENT	WINONA WFC4820-24DIA-4/130TT-120-OAE-CMF	4	13	QUAD TUBE G2401	120
K	SUSPENDED FLUORESCENT CYLINDER	WINONA WFP5470-1/26SBCF-120-OG-CMF	1	23	GU24	120
L	VAPOR TIGHT LED	LITHONIA OLV7M	-	15	LED	120
EMERGENCY BATTERY UNIT		LITHONIA #ELM6-W	-	6	LED	120
REMOTE DUAL HEAD LED EMERGENCY LIGHT		LITHONIA #ELA-T-QWP	2	1.5	LED	120
THIN DIE-CAST ALUMINUM EMERGENCY EXIT SIGN WITH BATTERY BACKUP		LITHONIA #TLE-W-R--ELN (NOTE 1)	-	1	LED	120

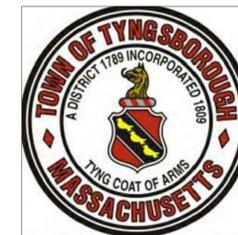
**NOTES:**

1. PROVIDE WITH NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS.
2. FINISH PER ARCHITECT.



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**FIRST PARISH MEETING HOUSE INTERIOR RENOVATION**



TOWN OF TYNGSBOROUGH  
25 BRYANT'S LANE  
TYNGSBOROUGH, MA 01879

Drawing Title:

**ELECTRICAL RISER DIAGRAMS & SCHEDULES**

Revisions:

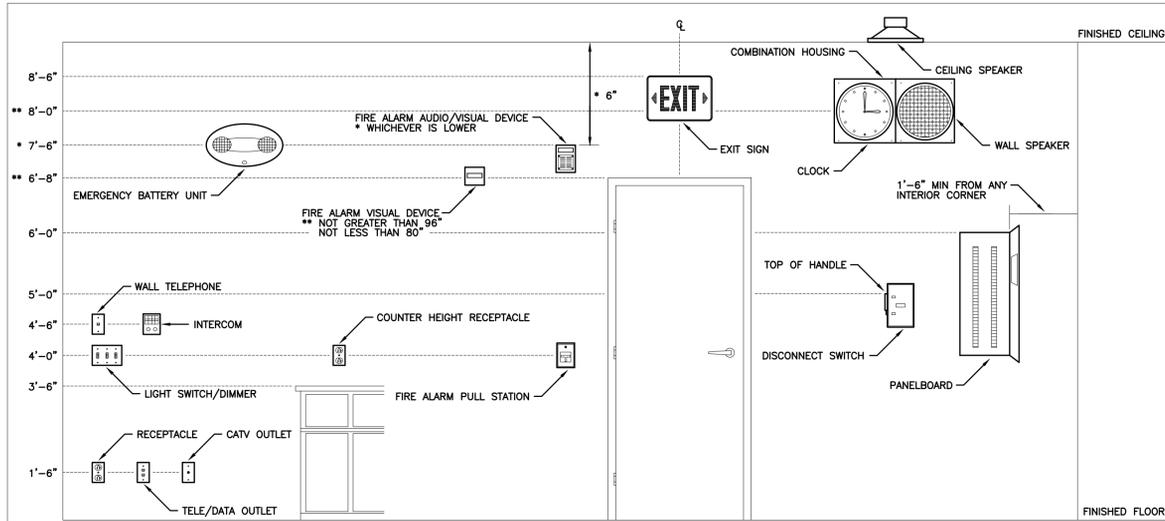
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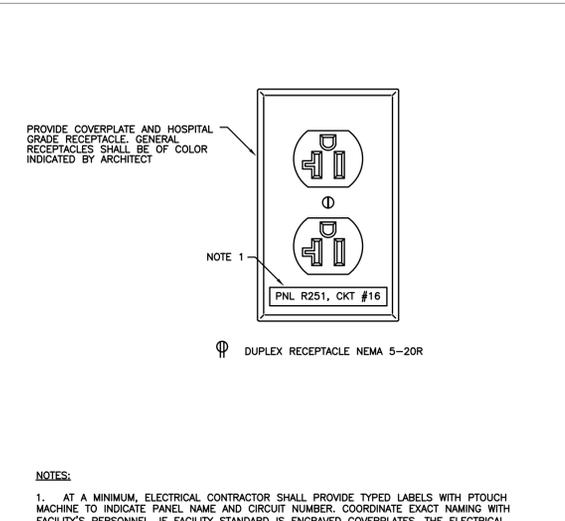
**BIDDING DOCUMENTS**

Date: 10/24/2018  
Project Number: 17009  
Project Manager: JCP  
Drawn By: DCF  
Scale: NONE

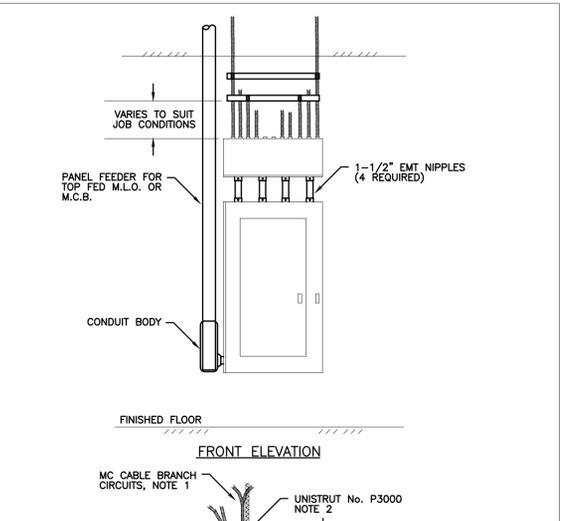
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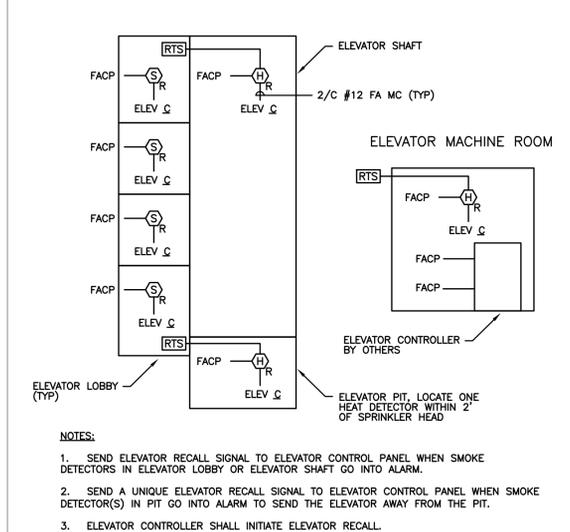
1 DEVICE MOUNTING HEIGHT DETAIL



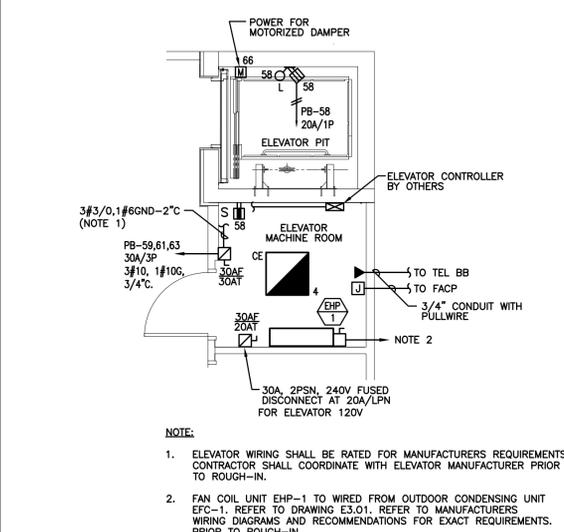
2 TYPICAL RECEPTACLE LABELING DETAIL



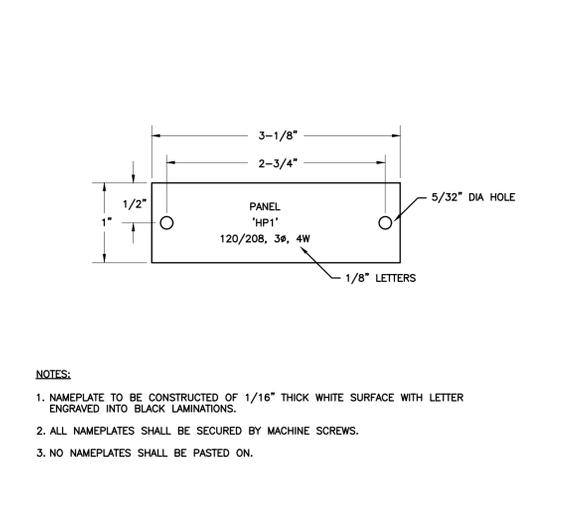
6 TYPICAL PANELBOARD BRANCH CIRCUIT WIRING DETAIL



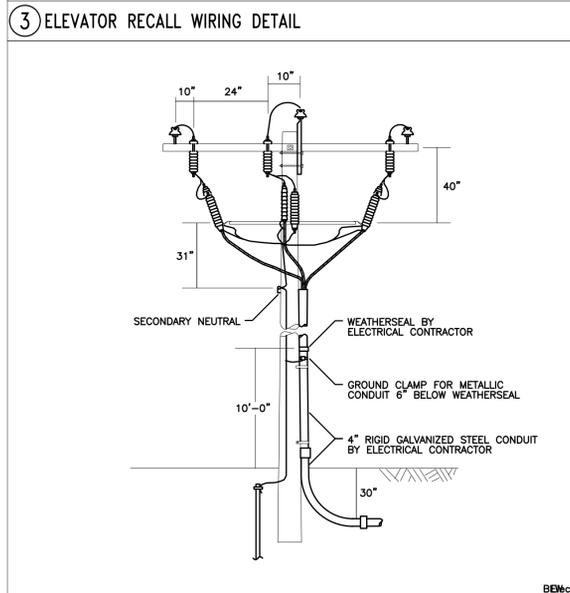
3 ELEVATOR RECALL WIRING DETAIL



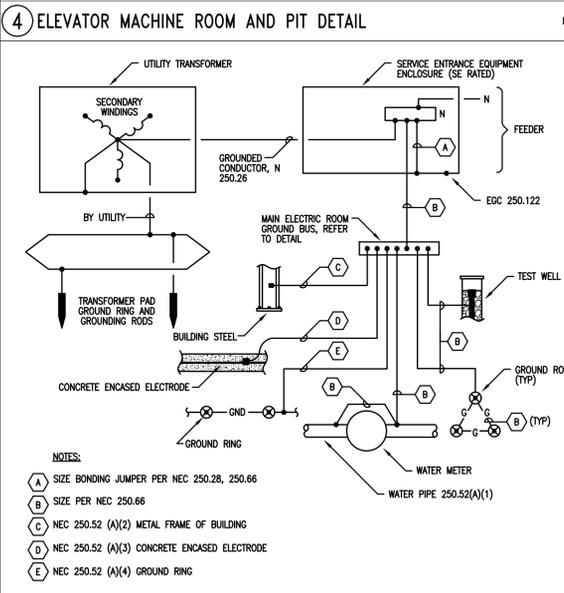
4 ELEVATOR MACHINE ROOM AND PIT DETAIL



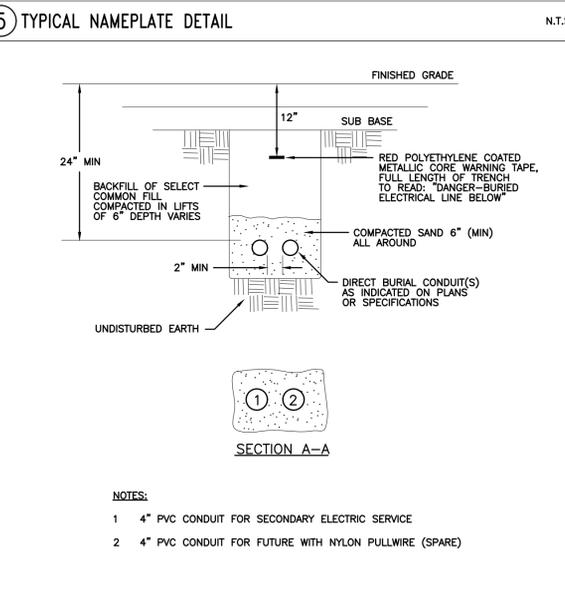
5 TYPICAL NAMEPLATE DETAIL



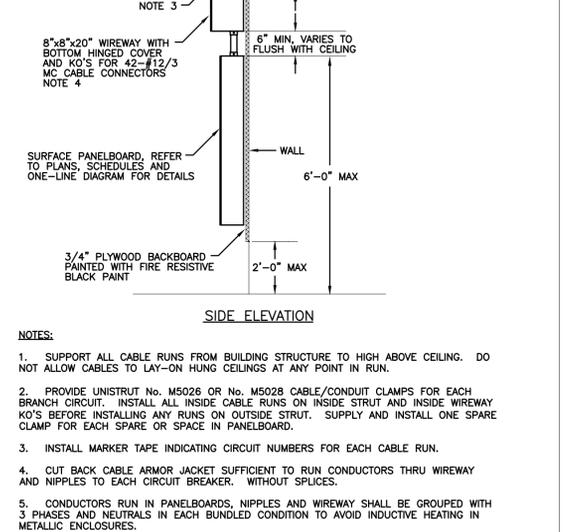
7 UTILITY POLE DETAIL



8 UTILITY SERVICE ENTRANCE GROUNDING DETAIL



9 DIRECT BURIAL CONDUIT DETAIL



10 KITCHEN EQUIPMENT SHUTDOWN WIRING DETAIL

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Drawing Title:

ELECTRICAL  
DETAILS

Revisions:

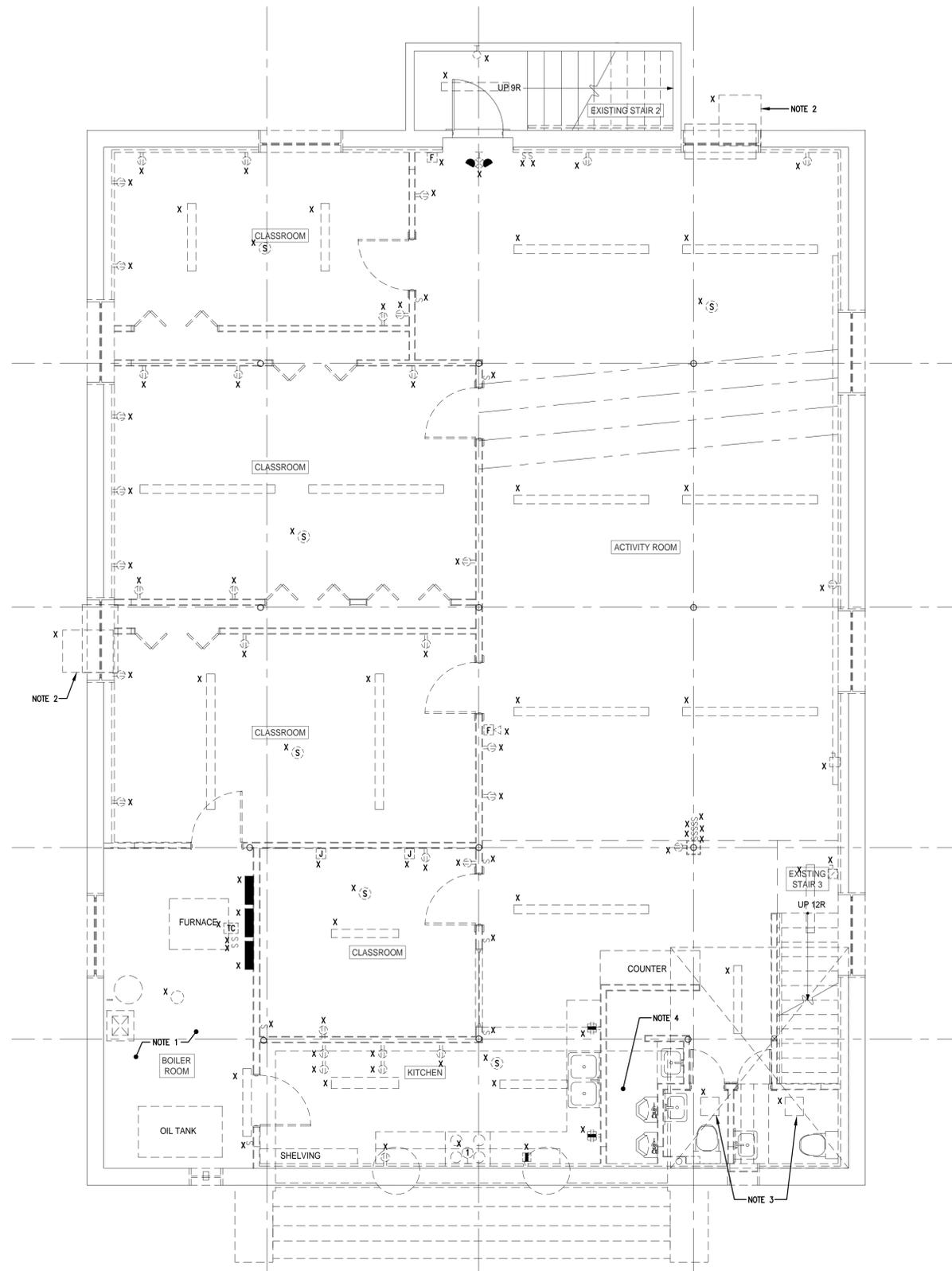
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BIDDING  
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Date: 10/24/2018  
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Drawn By: DCF  
Scale: NONE

E0-04



**1** BASEMENT LEVEL DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"

**NOTES:**

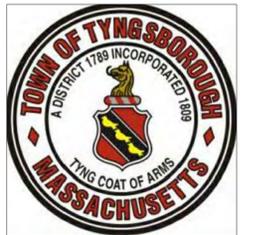
1. DEMOLISH ELECTRICAL CONNECTION(S) TO EXISTING BOILER & MECHANICAL EQUIPMENT BEING REMOVED. REFER TO MECHANICAL DRAWINGS.
2. DEMOLISH ELECTRICAL CONNECTION TO EXISTING AC UNIT BEING REMOVED. REFER TO MECHANICAL DRAWINGS.
3. DEMOLISH ELECTRICAL CONNECTION TO EXISTING EXHAUST FAN BEING REMOVED. REFER TO MECHANICAL DRAWINGS.
4. DEMOLISH LIGHTING FIXTURE(S) AND RECEPTACLE IN AREA REFERRED TO THIS NOTE.



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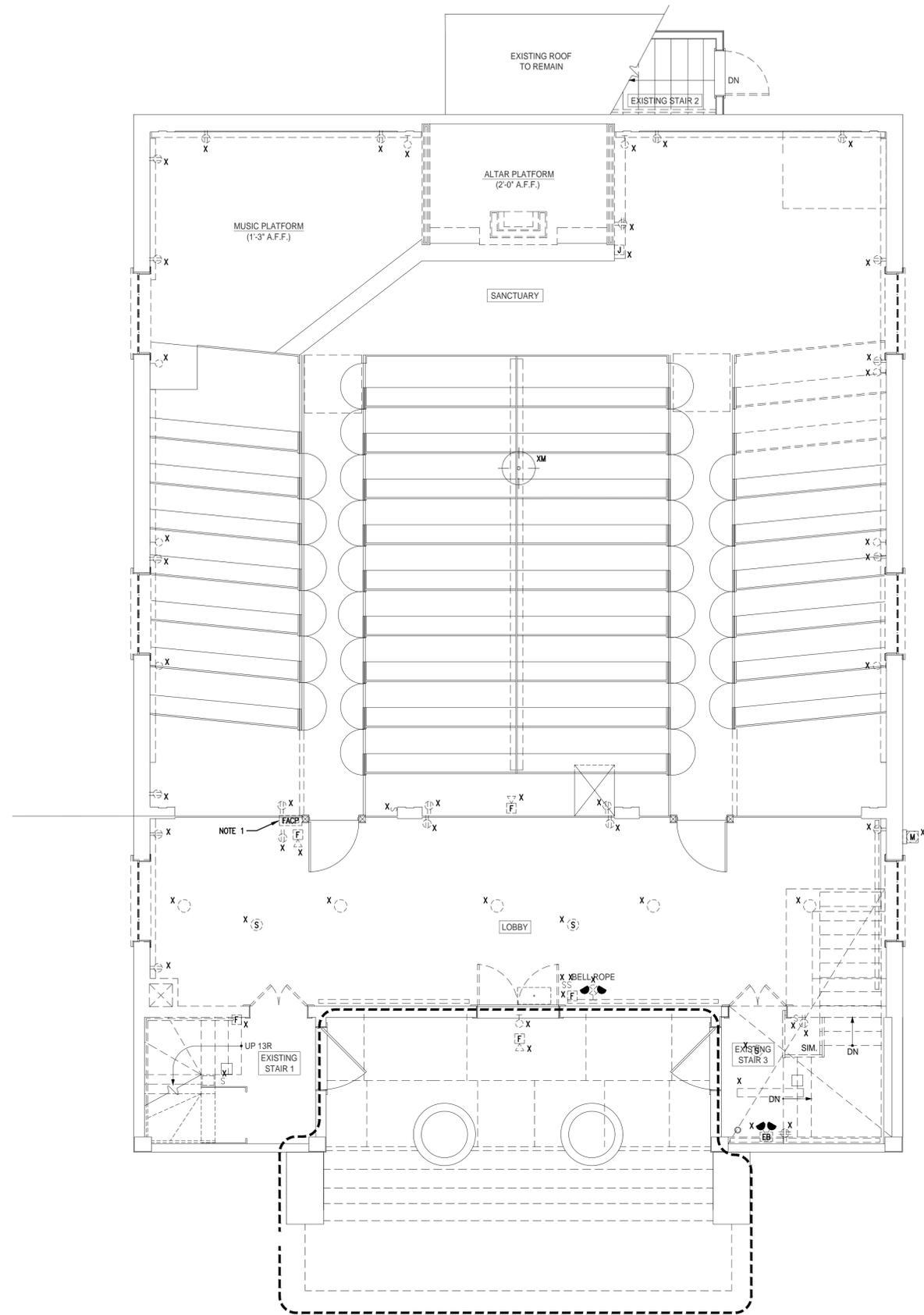
Drawing Title:  
**ELECTRICAL  
BASEMENT LEVEL  
DEMOLITION PLAN**

Revisions:  
**NOT FOR  
CONSTRUCTION**

Submission:  
**BIDDING  
DOCUMENTS**

Date: 10/24/2018  
Project Number: 17009  
Project Manager: JCP  
Drawn By: DCF  
Scale: AS NOTED

**EI-00**



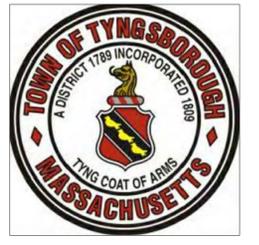
**1 FIRST FLOOR DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"

- NOTES:**
- EXISTING FIRE ALARM CONTROL PANEL TO BE RELOCATED (XR) TO NEW ELECTRICAL ROOM IN BASEMENT.



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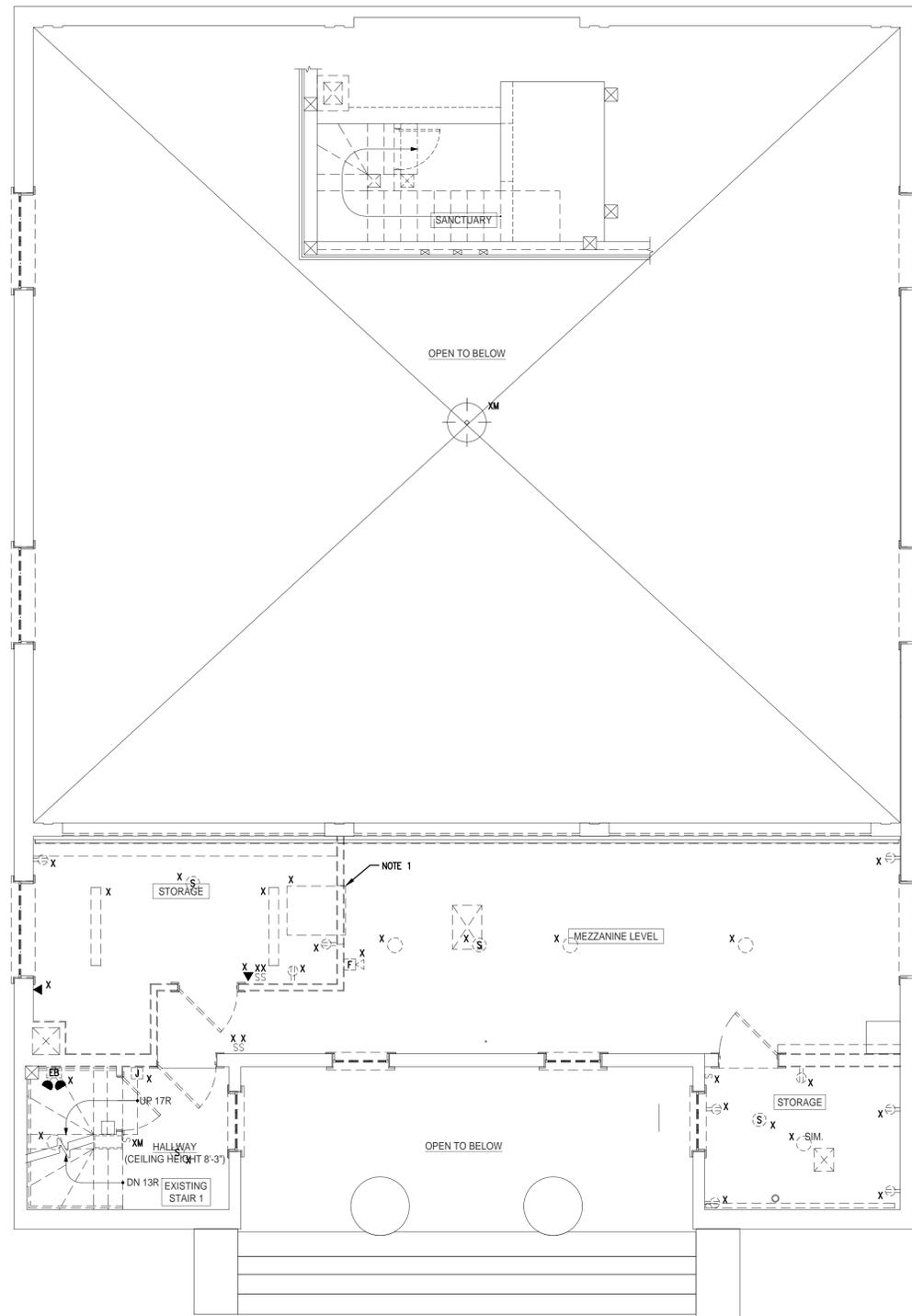
Drawing Title:  
**ELECTRICAL  
FIRST FLOOR  
DEMOLITION PLAN**

Revisions:  
**NOT FOR  
CONSTRUCTION**

Submission:  
**BIDDING  
DOCUMENTS**

Date: 10/24/2018  
Project Number: 17009  
Project Manager: JCP  
Drawn By: DCF  
Scale: AS NOTED

**EI-01**



**1** MEZZANINE LEVEL DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"

**NOTES:**  
1. DEMOLISH ELECTRICAL CONNECTION TO EXISTING AC UNIT BEING REMOVED. REFER TO MECHANICAL DRAWINGS.



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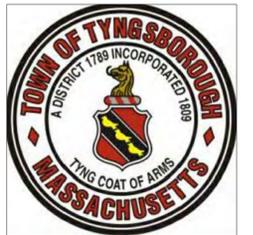
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Drawing Title:

**ELECTRICAL  
MEZZANINE LEVEL  
DEMOLITION PLAN**

Revisions:

**NOT FOR  
CONSTRUCTION**

Submission:

**BIDDING  
DOCUMENTS**

Date: 10/24/2018  
Project Number: 17009  
Project Manager: JCP  
Drawn By: DCF  
Scale: AS NOTED

**EI-02**



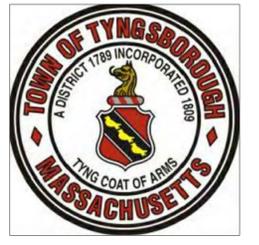
**1** BASEMENT LEVEL LIGHTING PLAN  
SCALE: 1/4" = 1'-0"

NOTES:  
1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.



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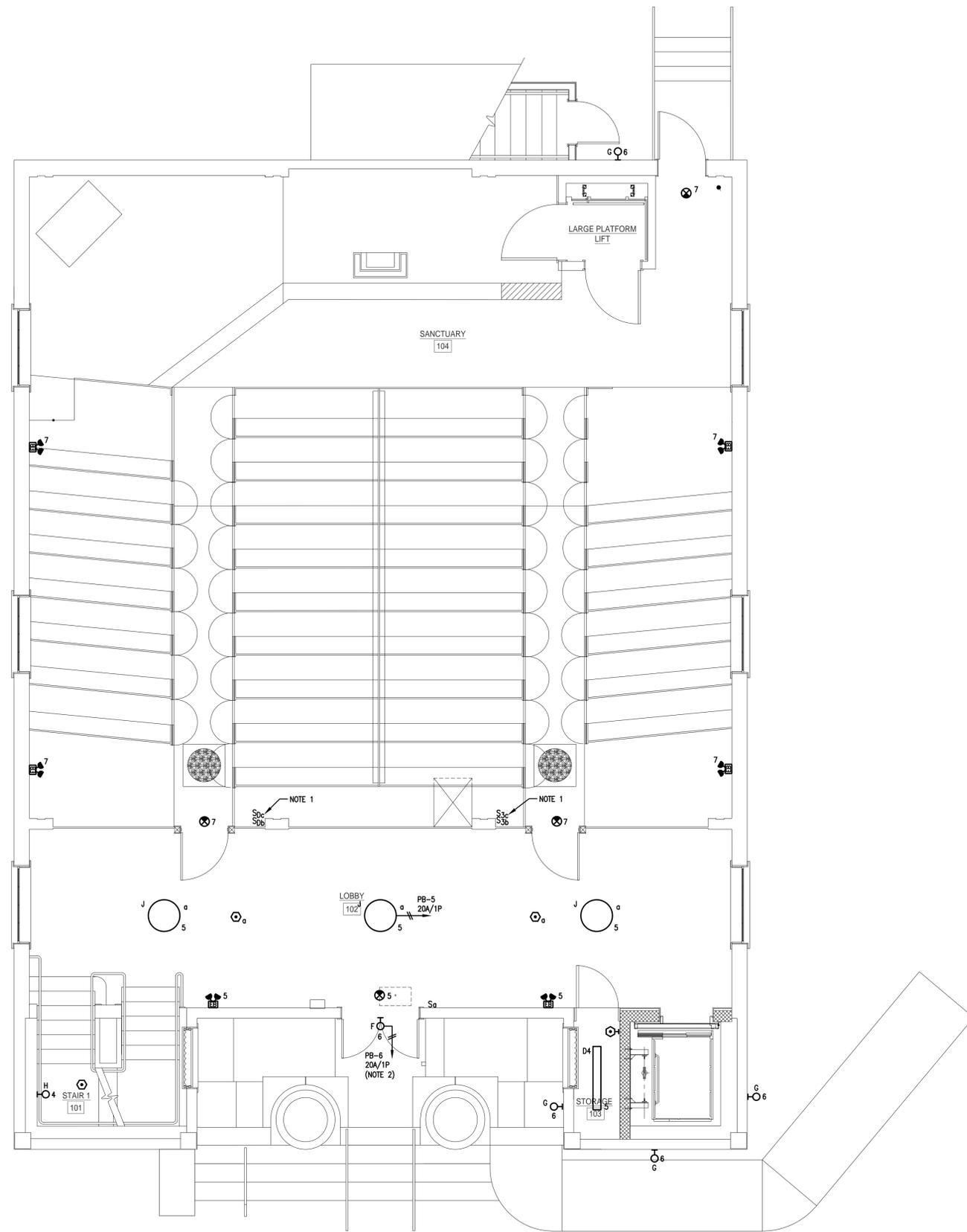
Drawing Title:  
ELECTRICAL  
BASEMENT LEVEL  
LIGHTING PLAN

Revisions:  
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CONSTRUCTION**

Submission:  
BIDDING  
DOCUMENTS

Date: 10/24/2018  
Project Number: 17009  
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Drawn By: DCF  
Scale: AS NOTED

**E2-00**



**1** FIRST FLOOR LIGHTING PLAN  
SCALE: 1/4" = 1'-0"

- NOTES:**
- REFER TO MEZZANINE LEVEL LIGHTING DRAWING E2.1 FOR SANCTUARY AREA FIXTURES CONTROLLED.
  - EXTERIOR LIGHTING FIXTURE BRANCH CIRCUIT WIRED VIA TIMECLOCK AND LIGHTING INVERTER LOCATED IN ELECTRIC ROOM. REFER TO DRAWING E3.00.

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Drawing Title:

**ELECTRICAL  
FIRST FLOOR  
LIGHTING PLAN**

Revisions:

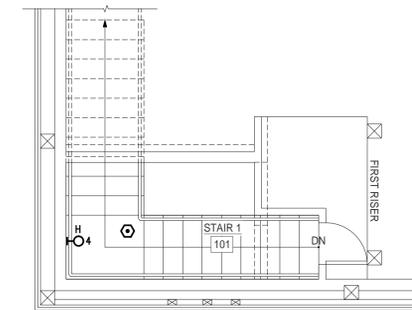
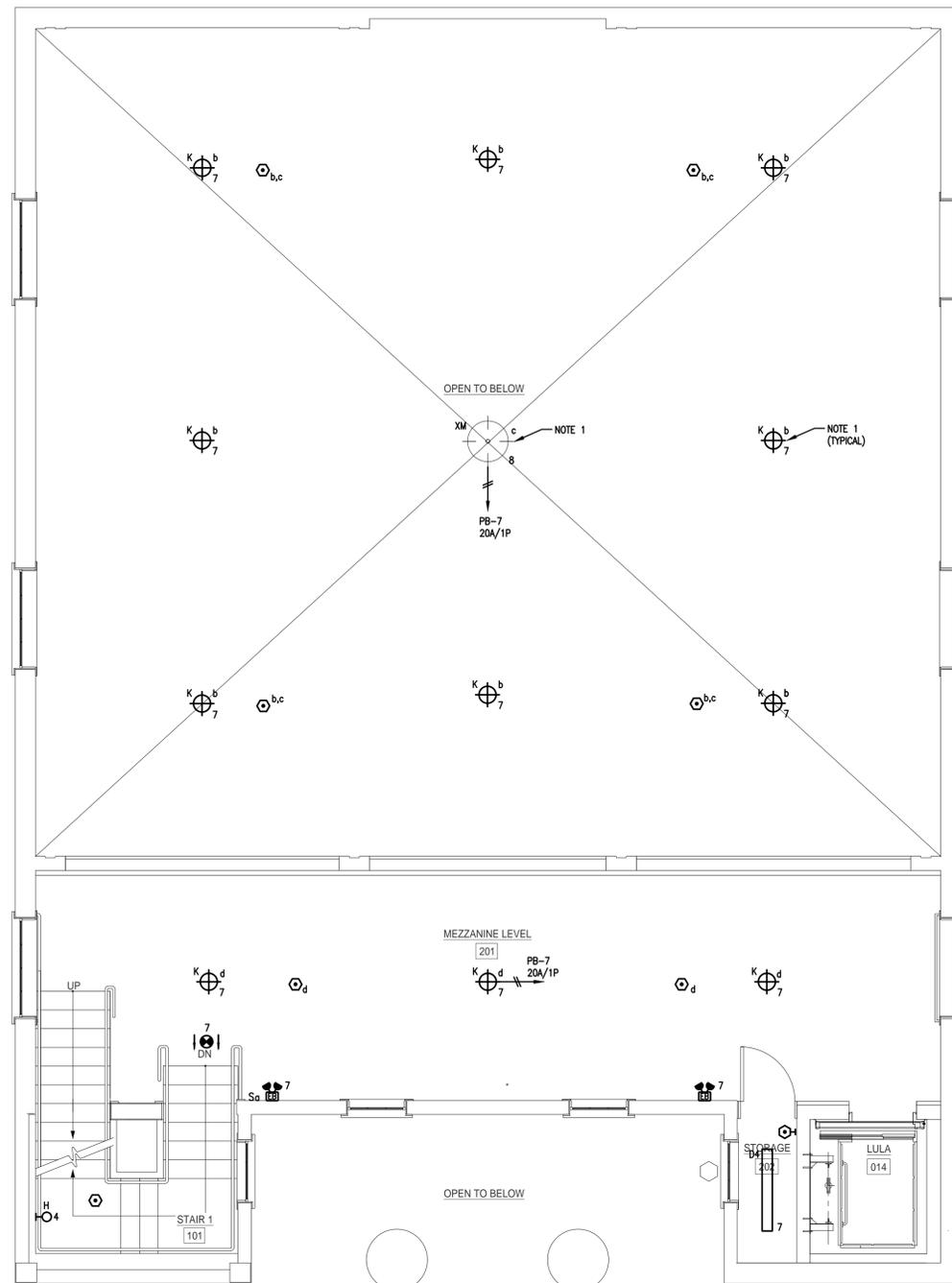
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**BIDDING  
DOCUMENTS**

Date: 10/24/2018  
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Drawn By: DCF  
Scale: AS NOTED

**E2-01**



**1** MEZZANINE LEVEL LIGHTING PLAN  
SCALE: 1/4" = 1'-0"

- NOTES:**
1. REFER TO FIRST FLOOR DRAWING E2.0 FOR SANCTUARY AREA LIGHTING CONTROLS.



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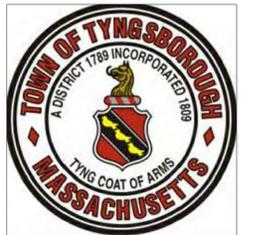
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Drawing Title:

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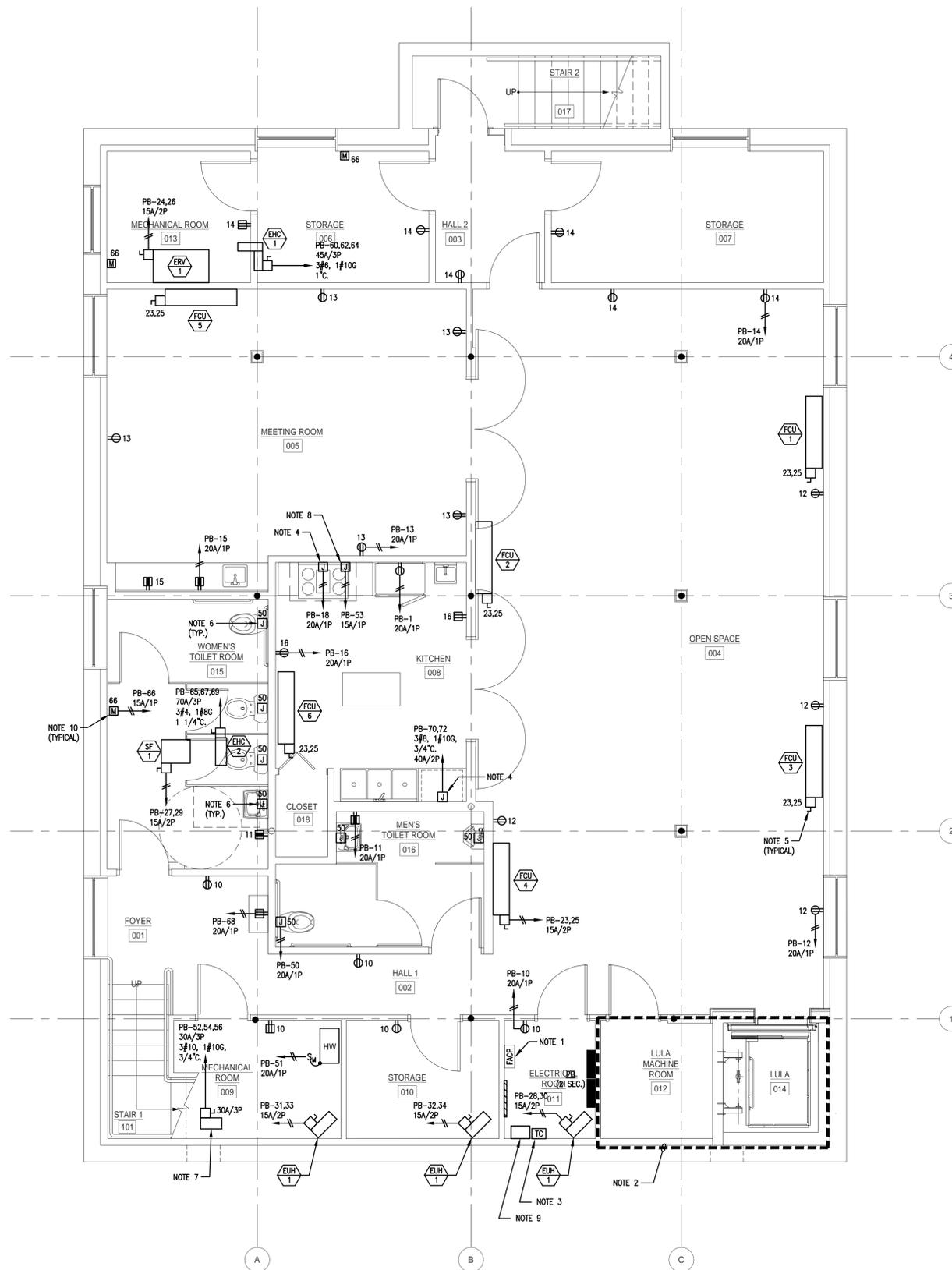
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Date: 10/24/2018  
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**E2-02**



**1** BASEMENT LEVEL POWER PLAN  
SCALE: 1/4" = 1'-0"

- NOTES:**
- EXISTING FIRE ALARM CONTROL PANEL TO BE RELOCATED (XR) TO NEW ELECTRICAL ROOM IN BASEMENT.
  - REFER TO DETAIL #4 ON DRAWING E0.04 FOR ELEVATOR MACHINE ROOM AND PIT REQUIREMENTS.
  - 24 HOUR DIGITAL TIMECLOCK FOR EXTERIOR LIGHTING. PROVIDE INTERMATIC MODEL #ET110SCR OR EQUAL. TIMECLOCK TO BE WIRED DOWNSTREAM OF LIGHTING INVERTER.
  - J-BOX POWER CONNECTION TO GAS RANGE.
  - ALL MECHANICAL EQUIPMENT DISCONNECTS PROVIDED BY HVAC UNLESS NOTED OTHERWISE.
  - J-BOX POWER FOR ELECTRONIC FAUCET OR FLUSH VALVE.
  - RISER MOUNTED AIR COMPRESSOR. COORDINATE EXACT REQUIREMENTS WITH FIRE PROTECTION PRIOR TO ROUGH-IN.
  - J-BOX POWER FOR RANGE HOOD.
  - DUAL-LITE INVERTER, MODEL NUMBER LG250SI-AD (OR EQUAL).
  - POWER FOR MOTORIZED DAMPER.
  - J-BOX POWER FOR 208V, 1 $\phi$ , 3W COMMERCIAL GRADE DISHWASHER. COORDINATE FINAL EXACT REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

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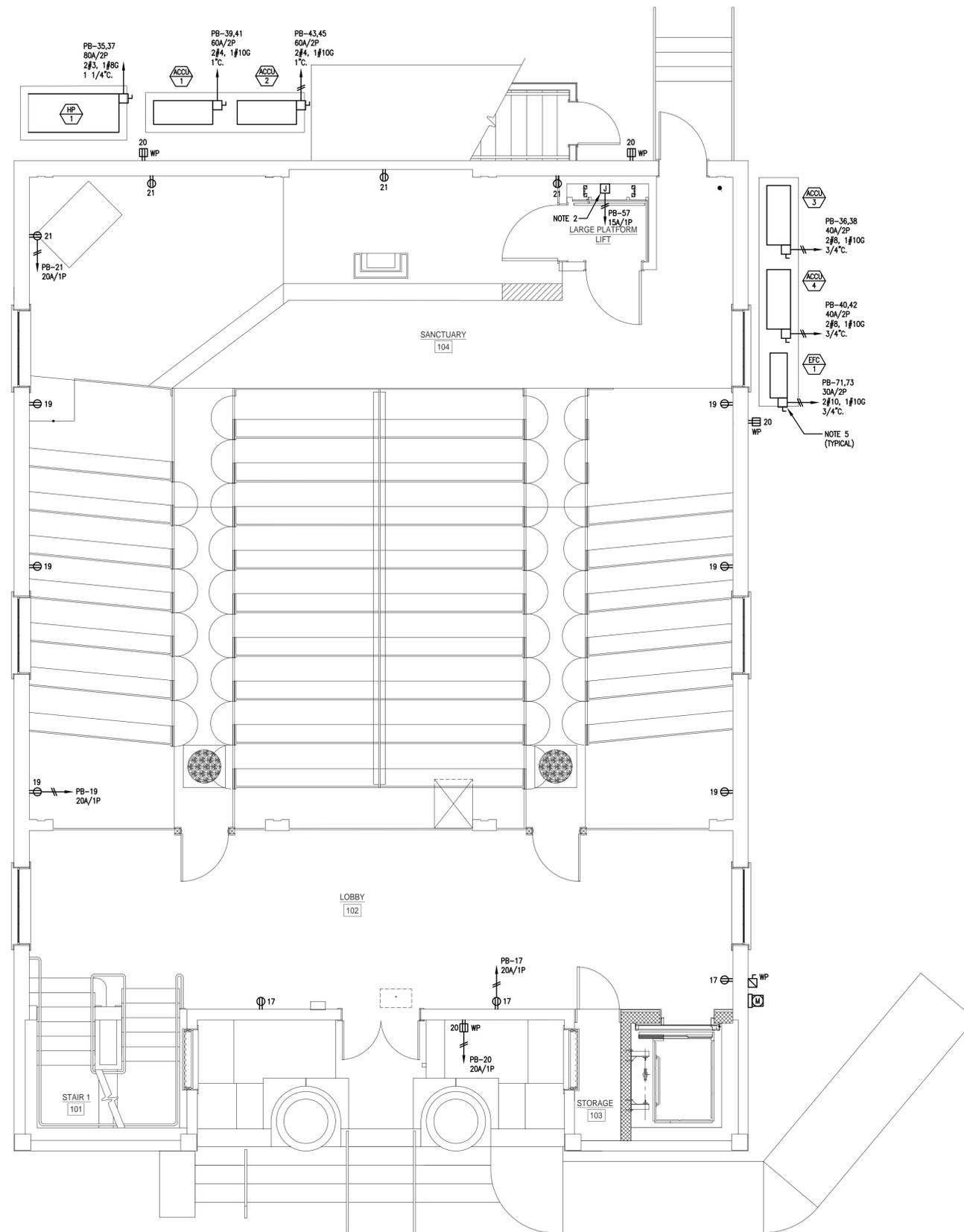
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**ELECTRICAL  
BASEMENT LEVEL  
POWER PLAN**

Revisions:  
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Submission:  
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Date: 10/24/2018  
Project Number: 17009  
Project Manager: JCP  
Drawn By: DCF  
Scale: AS NOTED

**E3-00**



**1 FIRST FLOOR POWER PLAN**  
SCALE: 1/4" = 1'-0"

- NOTES:**
- ALL MECHANICAL EQUIPMENT DISCONNECTS PROVIDED BY HVAC UNLESS NOTED OTHERWISE.
  - J-BOX POWER TO LULA PLATFORM LIFT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH LIFT VENDOR PRIOR TO ROUGH-IN.

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Drawing Title:

**ELECTRICAL  
FIRST FLOOR  
POWER PLAN**

Revisions:

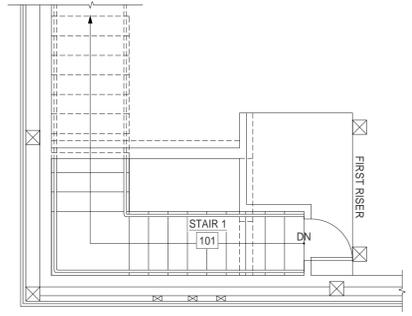
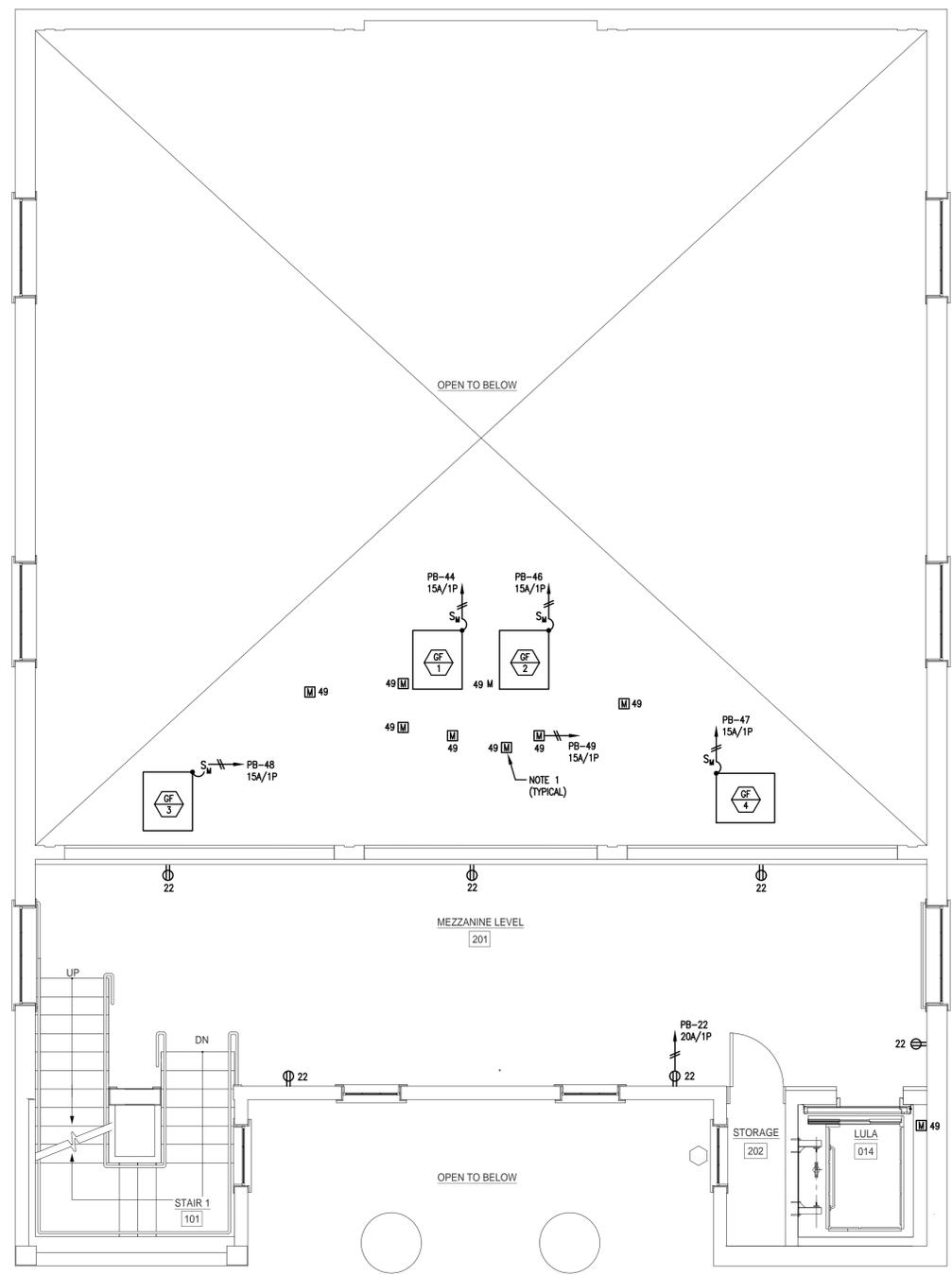
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Project Manager: JCP  
Drawn By: DCF  
Scale: AS NOTED

**E3-01**



1 MEZZANINE LEVEL POWER PLAN  
SCALE: 1/4" = 1'-0"

NOTES:  
1. 120V. MOTORIZED DAMPER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS.

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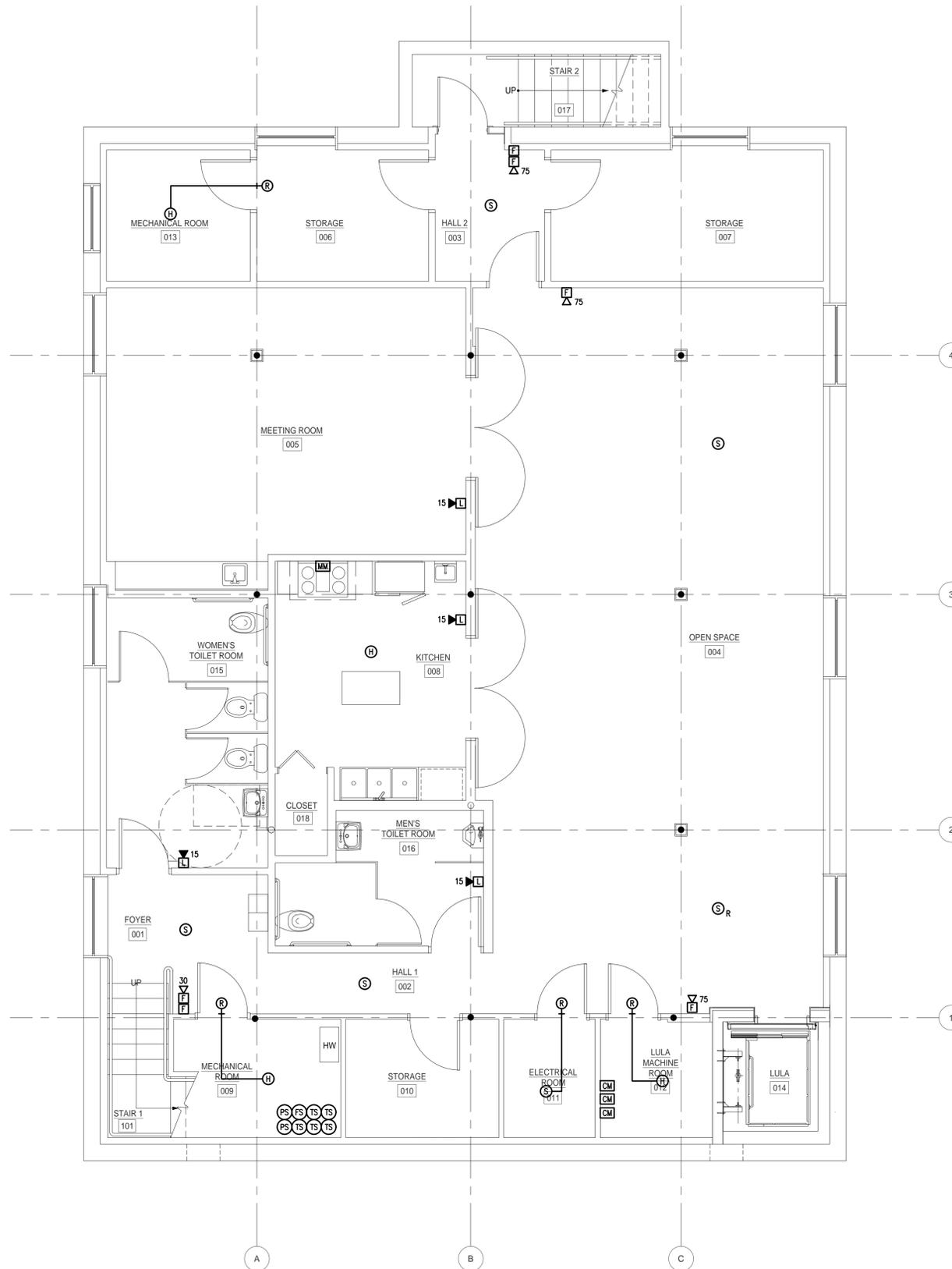
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MEZZANINE LEVEL  
POWER PLAN

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**E3-02**



1 BASEMENT LEVEL FIRE ALARM PLAN  
SCALE: 1/4" = 1'-0"

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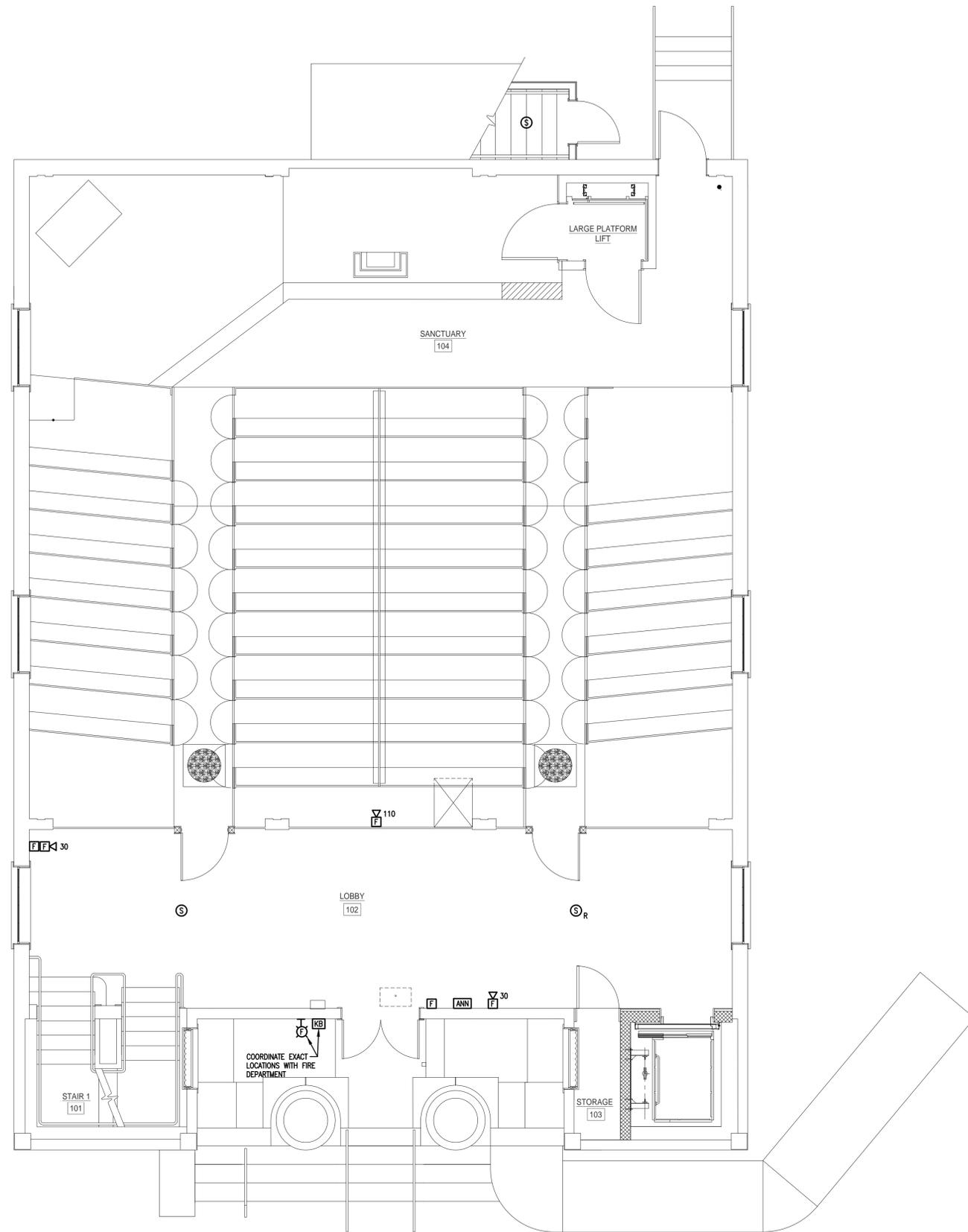
Drawing Title:  
ELECTRICAL  
BASEMENT LEVEL  
FIRE ALARM PLAN

Revisions:  
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Submission:  
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Date: 10/24/2018  
Project Number: 17009  
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**E4-00**



**1** FIRST FLOOR FIRE ALARM PLAN  
SCALE: 1/4" = 1'-0"



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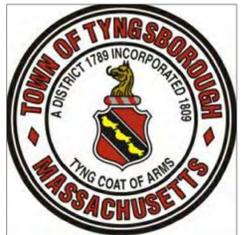
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Scale: AS NOTED

E4-01

