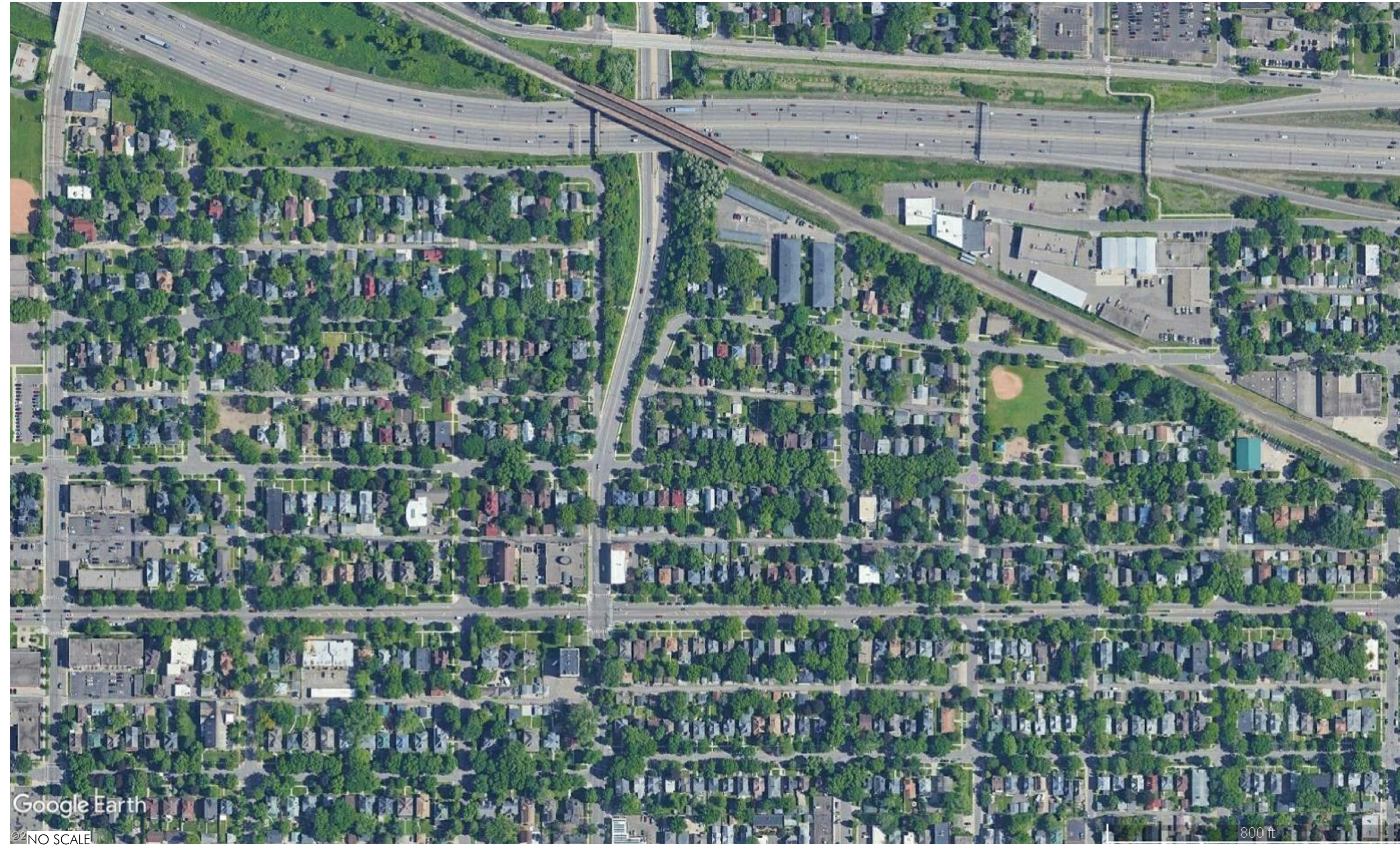


CHARLES THOMPSON MEMORIAL HALL - Rehabilitation, HVAC Upgrade, & Addition

1824 Marshall Avenue, Saint Paul, MN 55104



1 | G000 Site Map
G000 | 12" = 1'-0"

GENERAL NOTES:

The building is to be fully protected from damage during the course of construction. All damaged areas and finishes resulting from this work are to be restored by the contractor to match existing construction.

The contractor shall verify all existing conditions and dimensions in the field before beginning work.

The contractor shall immediately report any discrepancies between drawings and existing conditions and dimensions to the architect for resolution.

Do not scale drawings.

Where "repair" or "in-fill" is indicated on the drawings, the repair or in-fill item is to match and blend with adjacent surfaces and features in all respects.

All construction is new unless specifically noted as existing.

Where "match" is indicated on the drawings, the item is to be duplicated in all respects including, but not necessarily limited to, dimension, construction method, material, profile, and finish.

Where "repair" or "in-fill" is indicated on the drawings, the repair or in-fill item is to match and blend with adjacent surfaces and features in all respects.

OWNER CONTACT:

Herman Fuechtmann
Charles Thompson Memorial Hall
1824 Marshall Avenue
Saint Paul, MN 55104
Email: hermanfuechty@gmail.com

PROJECT CONTACTS:

Owner Representative
Herman Fuechtmann
Charles Thompson Memorial Hall
1824 Marshall Avenue
Saint Paul, MN 55104
Email: hermanfuechty@gmail.com

Architect of Record
Todd Grover
MacDonald & Mack Architects, Ltd.
400 South Fourth Street, Suite 712
Minneapolis, MN 55415
T: 612.341.4051
F: 612.337.5843

Collaborating Architect
Gregg Hackett
Gregg Hackett Architect
4342 Abbott Avenue South
Minneapolis, MN 55410
T: 612.708.7584

Structural Engineering
Ken Green
Mattson Macdonald Young, Inc.
901 North Third Street, Suite 100
Minneapolis, MN 55401
T: 612.827.7825
F: 612.827.0805

Mechanical, Electrical, and Plumbing Engineering
Cory Sutherland
Hallberg Engineering
1750 Commerce Court
White Bear Lake, MN 55110
T: 651.748.1100

Civil Engineering
Troy Gamble
Anderson Engineering
13605 First Avenue North, #100
Plymouth, MN 55441
T: 763.412.4022

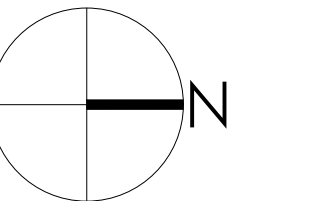
Elevator
Kathy Markwell
Elevator Advisory Group, Inc.
14530 Pennock Avenue, Suite 104
Apple Valley, MN 55124
T: 952.432.4443
F: 952.432.4449

DRAWING INDEX		
DISCIPLINE	SHEET NO.	SHEET NAME
GENERAL		
GENERAL	G000	COVER
CIVIL		SURVEY
CIVIL		
CIVIL	D1.0	DEMOLITION PLAN
CIVIL	C1.0	SITE & UTILITY PLAN
CIVIL	C2.0	GRADING & EROSION CONTROL PLAN
CIVIL	C3.0	DETAILS
ARCHITECTURE		
ARCHITECTURE	A001	LIFE SAFETY PLAN
ARCHITECTURE	A002	KEYNOTES
ARCHITECTURE	A101	DEMOLITION PLANS & DEMOLITION RCPS
ARCHITECTURE	A102	DEMOLITION PLANS & DEMOLITION RCPS
ARCHITECTURE	A151	CONSTR PLANS & ENLARGED PLANS
ARCHITECTURE	A152	CONSTR PLANS & ENLARGED PLANS
ARCHITECTURE	A153	CONSTRUCTION REFLECTED CEILING PLANS
ARCHITECTURE	A201	DEMOLITION NORTH & SOUTH BUILDING ELEV
ARCHITECTURE	A202	DEMOLITION EAST & WEST BUILDING ELEVATION
ARCHITECTURE	A251	CONSTRUCTION BUILDING ELEVATIONS
ARCHITECTURE	A252	CONSTRUCTION BUILDING ELEVATIONS
ARCHITECTURE	A253	PORCH/BALCONY PLANS & SECTIONS
ARCHITECTURE	A301	BUILDING SECTIONS
ARCHITECTURE	A302	BUILDING SECTIONS AND DETAILS
ARCHITECTURE	A401	LL ENLARGED RESTROOM PLAN AND ELEVATIONS
ARCHITECTURE	A402	ENLARGED RESTROOM PLANS AND ELEVATIONS
ARCHITECTURE	A403	INTERIOR ELEVATIONS
ARCHITECTURE	A404	INTERIOR ELEVATIONS
ARCHITECTURE	A405	INTERIOR ELEVATIONS
ARCHITECTURE	A601	SCHEDULES
STRUCTURAL		
STRUCTURAL	S000	STRUCTURAL NOTES AND SPECIAL INSPECTIONS
STRUCTURAL	S100	FOUNDATION PLAN
STRUCTURAL	S101	FIRST FLOOR FRAMING PLAN
STRUCTURAL	S102	SECOND FLOOR FRAMING PLAN
STRUCTURAL	S103	THIRD FLOOR FRAMING PLAN
STRUCTURAL	S104	ROOF FRAMING PLAN
STRUCTURAL	S200	FOUNDATION DETAILS AND SECTIONS
STRUCTURAL	S210	FLOOR FRAMING DETAILS AND SECTIONS
STRUCTURAL	S220	ROOF FRAMING DETAILS AND SECTIONS
ELECTRICAL		
ELECTRICAL	E000	ELECTRICAL TITLE SHEET AND SYMBOL LEGEND
ELECTRICAL	E001	LOWER LEVEL ELECTRICAL DEMOLITION PLAN
ELECTRICAL	E011	FIRST FLOOR ELECTRICAL DEMOLITION PLAN
ELECTRICAL	E021	SECOND FLOOR ELECTRICAL DEMOLITION PLAN
ELECTRICAL	E031	THIRD FLOOR ELECTRICAL DEMOLITION PLAN
ELECTRICAL	E041	ROOF ELECTRICAL DEMOLITION PLAN
ELECTRICAL	E101	LOWER LEVEL LIGHTING PLAN
ELECTRICAL	E111	FIRST FLOOR LIGHTING PLAN
ELECTRICAL	E121	SECOND FLOOR LIGHTING PLAN
ELECTRICAL	E131	THIRD FLOOR LIGHTING PLAN
ELECTRICAL	E201	LOWER LEVEL POWER PLAN
ELECTRICAL	E211	FIRST FLOOR POWER PLAN
ELECTRICAL	E221	SECOND FLOOR POWER PLAN
ELECTRICAL	E231	THIRD FLOOR POWER PLAN
ELECTRICAL	E241	ROOF POWER PLAN
ELECTRICAL	E800	ELECTRICAL SCHEDULES AND POWER RISER DIAGRAM
MECHANICAL		
MECHANICAL	M000	MECHANICAL TITLE SHEET
MECHANICAL	M001	LOWER LEVEL MECHANICAL DEMOLITION PLAN
MECHANICAL	M011	FIRST FLOOR MECHANICAL DEMOLITION PLAN
MECHANICAL	M021	SECOND FLOOR MECHANICAL DEMOLITION PLAN
MECHANICAL	M031	THIRD FLOOR MECHANICAL DEMOLITION PLAN
MECHANICAL	M041	ROOF MECHANICAL DEMOLITION PLAN
MECHANICAL	M101	LOWER LEVEL MECHANICAL PLAN
MECHANICAL	M111	FIRST FLOOR MECHANICAL PLAN
MECHANICAL	M121	SECOND FLOOR MECHANICAL PLAN
MECHANICAL	M131	THIRD FLOOR MECHANICAL PLAN
MECHANICAL	M141	ROOF MECHANICAL PLAN
MECHANICAL	M201	LOWER LEVEL PIPING PLAN
MECHANICAL	M211	FIRST FLOOR PIPING PLAN
MECHANICAL	M221	SECOND FLOOR PIPING PLAN
MECHANICAL	M231	THIRD FLOOR PIPING PLAN
MECHANICAL	M700	MECHANICAL DETAILS
MECHANICAL	M800	MECHANICAL SCHEDULES
PLUMBING		
PLUMBING	P101	LOWER LEVEL PLUMBING PLAN
PLUMBING	P111	FIRST FLOOR PLUMBING PLAN
PLUMBING	P601	PLUMBING RISER DIAGRAMS
PLUMBING	P700	PLUMBING DETAILS
PLUMBING	P800	PLUMBING SCHEDULES

LEGEND

REVISIONS		
No.	Description	Date

60% Legacy Grant Review



EXISTING CONDITIONS SURVEY

SURVEY FOR: **MACDONALD & MACK ARCHITECTS**

SITE LOCATION:

1824 Marshall Avenue, St. Paul, Minnesota.

PROPERTY DESCRIPTION:

Lots 1 and 2, Block 1, SECOND ADDITION MERRIAM PARK, Ramsey County, Minnesota.

CERTIFICATION:

I hereby certify that this survey was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.

Dated: July 24, 2020

Anderson Engineering of Minnesota, LLC

by:



David Anderson
Minnesota License No. 43501































NOTES:

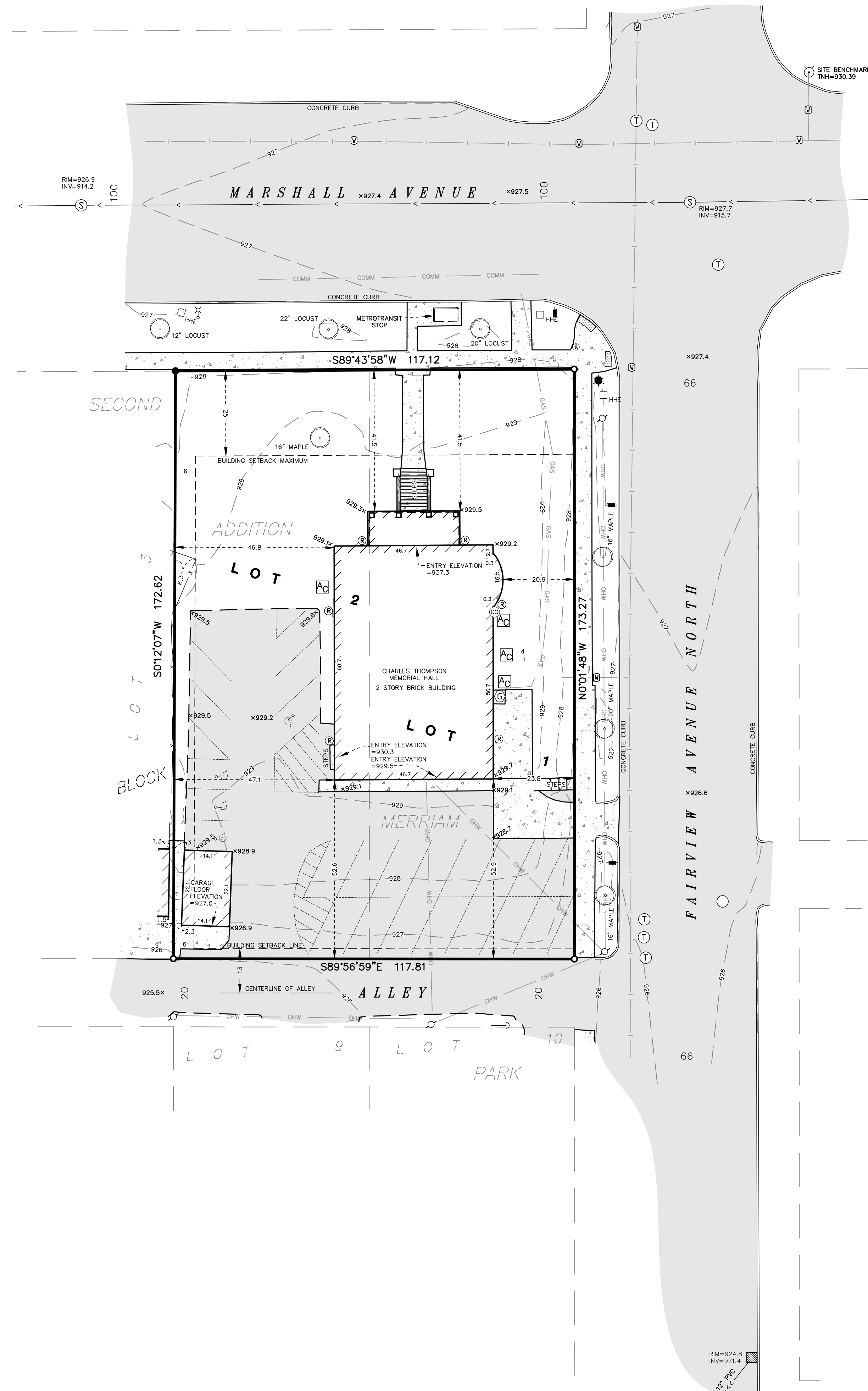
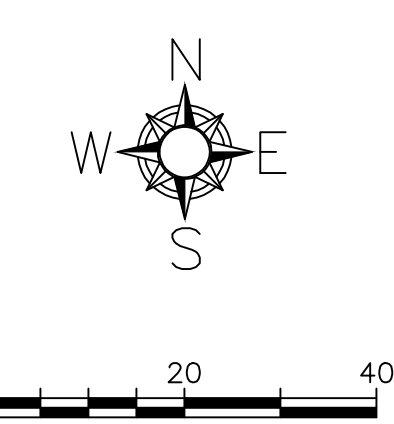
- The horizontal datum and bearings are based on the Ramsey County Coordinate System NAD83 (2011).
- The vertical datum is NAVD 88. The site benchmark is top nut of hydrant located in the northeast quadrant of Marshall Avenue and Fairview Avenue North (depicted hereon). Elevation = 930.39 feet.
- The location and extent of underground utilities, if shown, are based upon existing drawings provided by the utility companies, above ground evidence and Gopher State One Call markings per ticket number 201601176. Exclusive of excavation, there is no guarantee as to the accuracy or the completeness of this information. The size and location should be considered approximate. Additional underground utilities may be present. Verification of the existence and location of all utilities should be obtained from the utility owners prior to any planning or design. In accordance with Minnesota Statute, the location of utilities shall be confirmed prior to any demolition or construction.
- No title work was provided for the preparation of this survey to verify the legal description or the existence of any easements or encumbrances.
- According to the City of St. Paul, the subject property is zoned T1 (Traditional Neighborhood) and has the building setback requirements listed below. No zoning letter was provided for this survey. It is recommended that the property owner obtain a zoning letter from the City to verify all conditions that affect the property through the city zoning ordinance. This survey does not purport to describe all conditions contained in said ordinance.

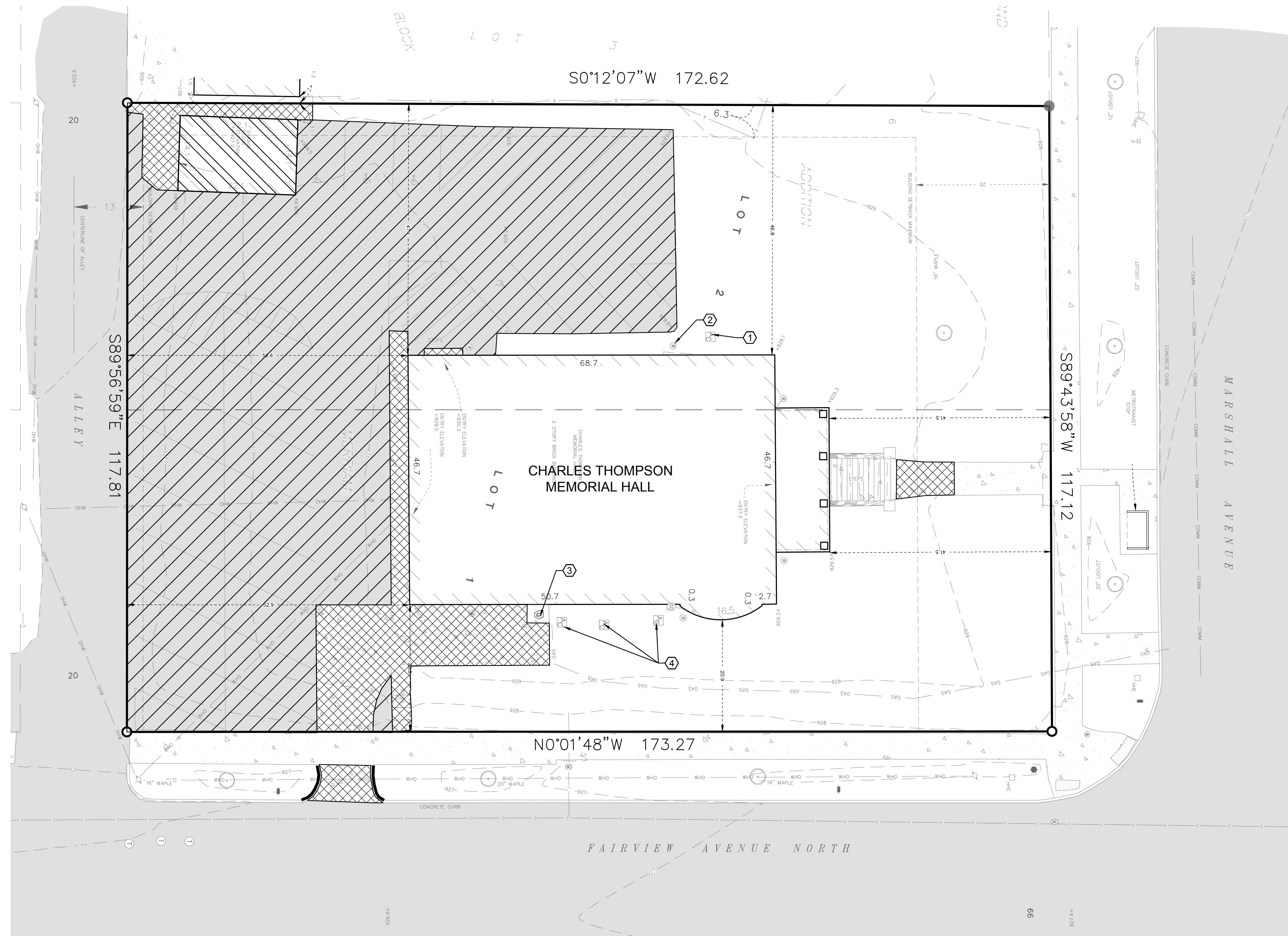
BUILDING SETBACKS

Front = 0-25 feet
Rear = 13 feet from centerline of adjoining alley.
Side = 6 feet

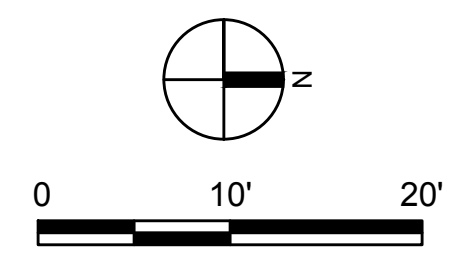
LEGEND

	AIR CONDITIONER		COMMUNICATION
	CATCH BASIN		FENCE
	CLEAN OUT		GAS MAIN
	GAS METER		OVERHEAD WIRES
	HANDICAP PARKING		SANITARY SEWER
	HANDHOLE ELECTRIC		STORM SEWER
	HYDRANT		WATER MAIN
	LIGHT POLE		BITUMINOUS SURFACE
	MANHOLE		CONCRETE SURFACE
	POWER POLE		TRUNCATED DOMES
	PUSH BUTTON WALK		
	ROOF DRAIN		
	SANITARY MANHOLE		
	SEMAPHORE		
	SIGN		
	TELEPHONE MANHOLE		
	WATER VALVE		
	FOUND IRON MONUMENT		
	SET MONUMENT WITH L.S. NO. 43501		
	DECIDUOUS TREE		





1 DEMOLITION PLAN
SCALE: 1" = 10'



LEGEND

	PROPERTY LINE
	REMOVE BUILDING
	REMOVE ASPHALT PAVEMENT
	REMOVE CONCRETE PAVEMENT
	REMOVE CURB & GUTTER

KEYNOTES

①	REMOVE EXISTING HVAC UNIT
②	REMOVE EXISTING ROOF DRAIN
③	PROTECT EXISTING GAS METER
④	PROTECT EXISTING HVAC UNIT

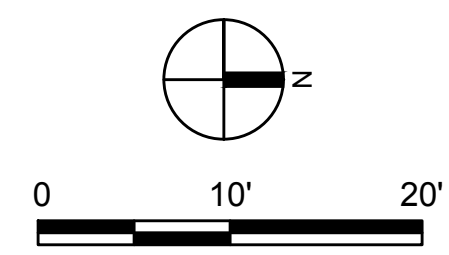
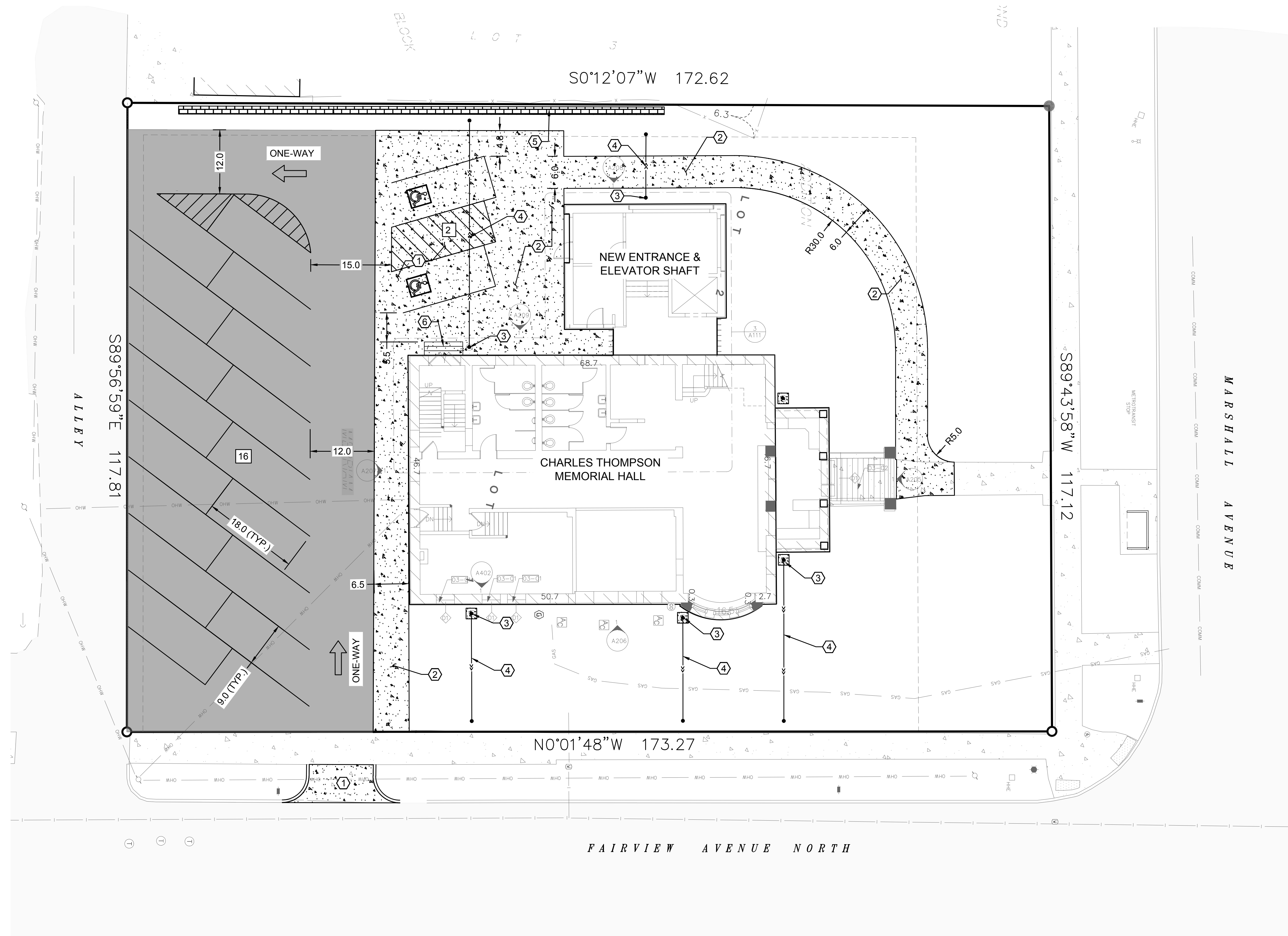
MACDONALD & MACK
 ARCHITECTS
 400 SOUTH FOURTH STREET STE 712 MINN
 APPLICABLE MINNESOTA 55415
 WWW.MACDONALDANDMACK.COM
I hereby certify that this plan, specification, etc. was prepared by me or under my direct supervision and that I am a duly licensed professional engineer in the State of Minnesota.

Charles Thompson Memorial Hall
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104

DEMOLITION
 PLAN

D1.0

DRAWN PAT REVISI ON



LEGEND

	PROPERTY LINE
	NEW ASPHALT PAVEMENT
	NEW CONCRETE PAVEMENT
	NEW STORM SEWER
	NUMBER OF PARKING STALLS

KEYNOTES

	NEW VEHICULAR CONCRETE PAVEMENT
	NEW PEDESTRIAN CONCRETE PAVEMENT
	NEW CATCH BASIN W/ 2'x2' CONCRETE COLLAR.
	NEW UNDERGROUND ROOF DRAIN EXTENSION
	NEW RETAINING WALL
	NEW STAIRS

1 SITE PLAN
SCALE: 1" = 10'

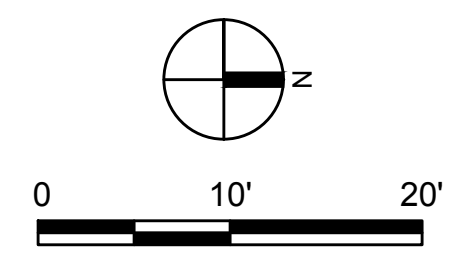
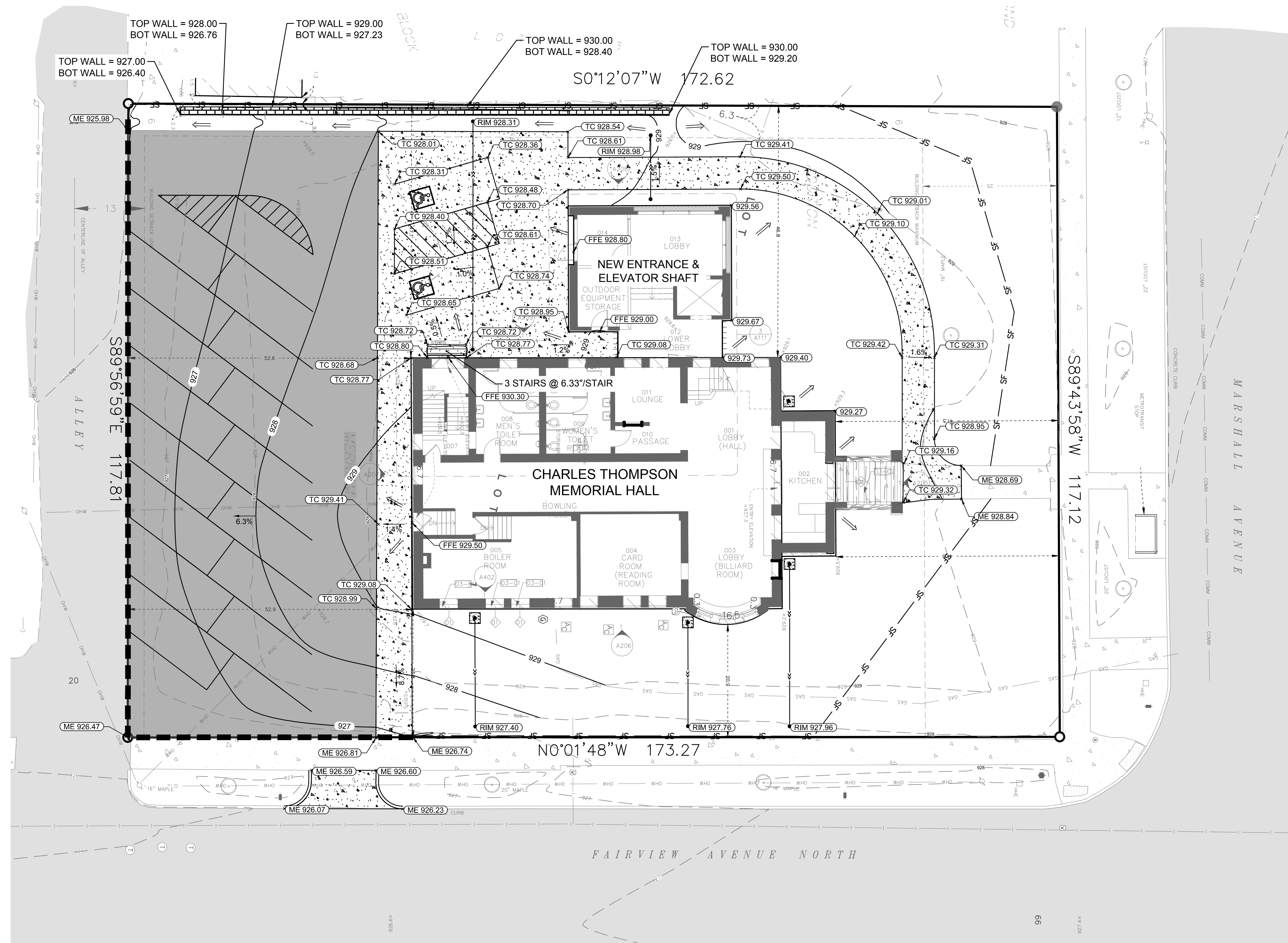
Charles Thompson Memorial Hall
Rehabilitation, HVAC Upgrade, and Addition

1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN PAT REVISI ON

MACDONALD & MACK
ARCHITECTS
400 SOUTH FOURTH STREET STE 712 MINN
WWW.MACDONALD&MACK.COM MN 55402
I hereby certify that this plan, specification, etc. was prepared by me or under my direct supervision and I am a duly licensed professional engineer in the State of Minnesota.

SITE & UTILITY
PLAN

C1.0



- LEGEND**
- PROPERTY LINE
 - - - CONSTRUCTION LIMITS
 - - - 966 EXISTING MINOR CONTOUR
 - - - 965 EXISTING MAJOR CONTOUR
 - - - 966 PROPOSED MINOR CONTOUR
 - - - 965 PROPOSED MAJOR CONTOUR
 - - - SF SILT FENCE
 - █ BIOROLL
 - × 959.4 EXISTING SPOT ELEVATION
 - DRAINAGE ARROW
 - 970.1 SPOT ELEVATION
 - TC 970.1 TOP OF CONCRETE
 - ME 970.1 MATCH EXISTING ELEVATION

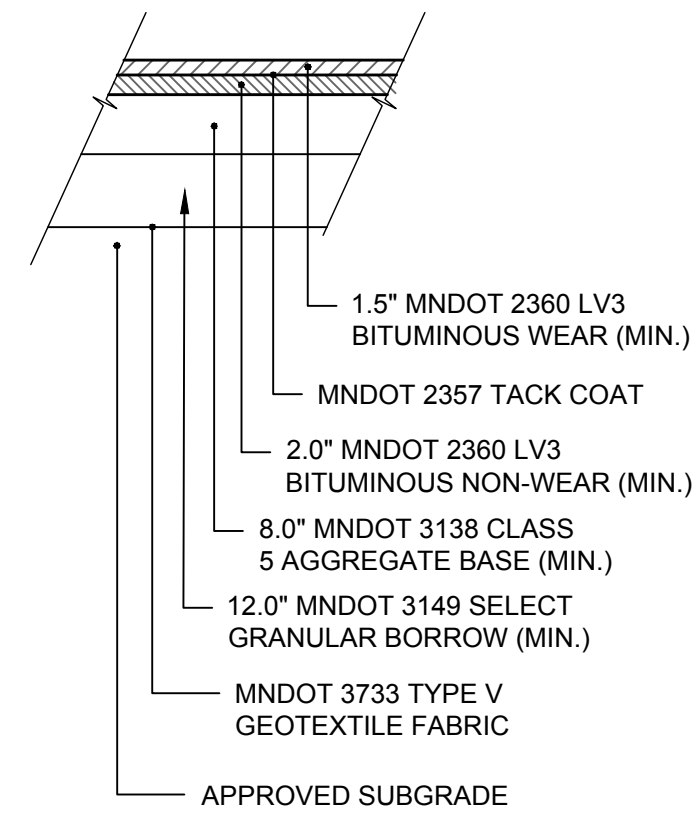
- KEYNOTES**
- ①

1 GRADING & EROSION CONTROL PLAN
SCALE: 1" = 10'

MACDONALD & MACK
ARCHITECTS
400 SOUTH FOURTH STREET STE 7 12 MINN
WWW.MACDONALDANDMACK.COM MN 55402
I hereby certify that this plan, specification, etc. was prepared by me or under my direct supervision and I am a duly licensed professional engineer in the State of Minnesota.

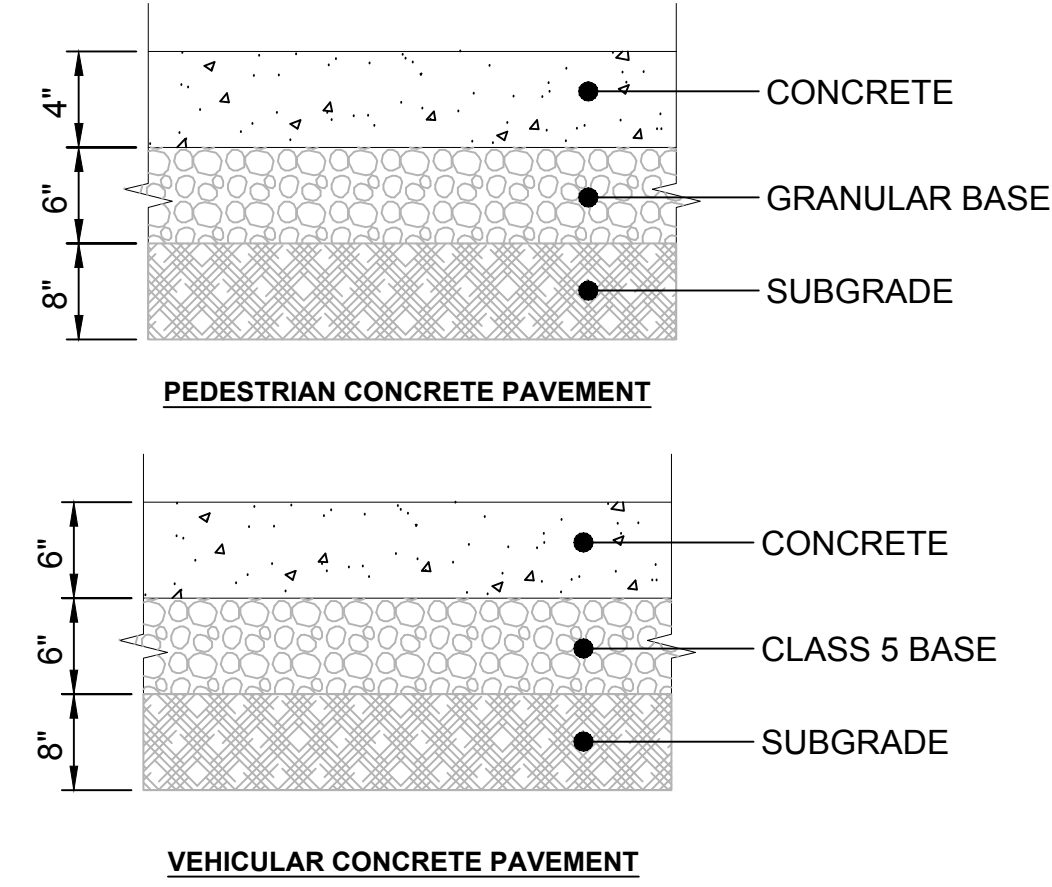
Charles Thompson Memorial Hall
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN PAT REVISI ON

GRADING &
EROSION
CONTROL PLAN
C2.0



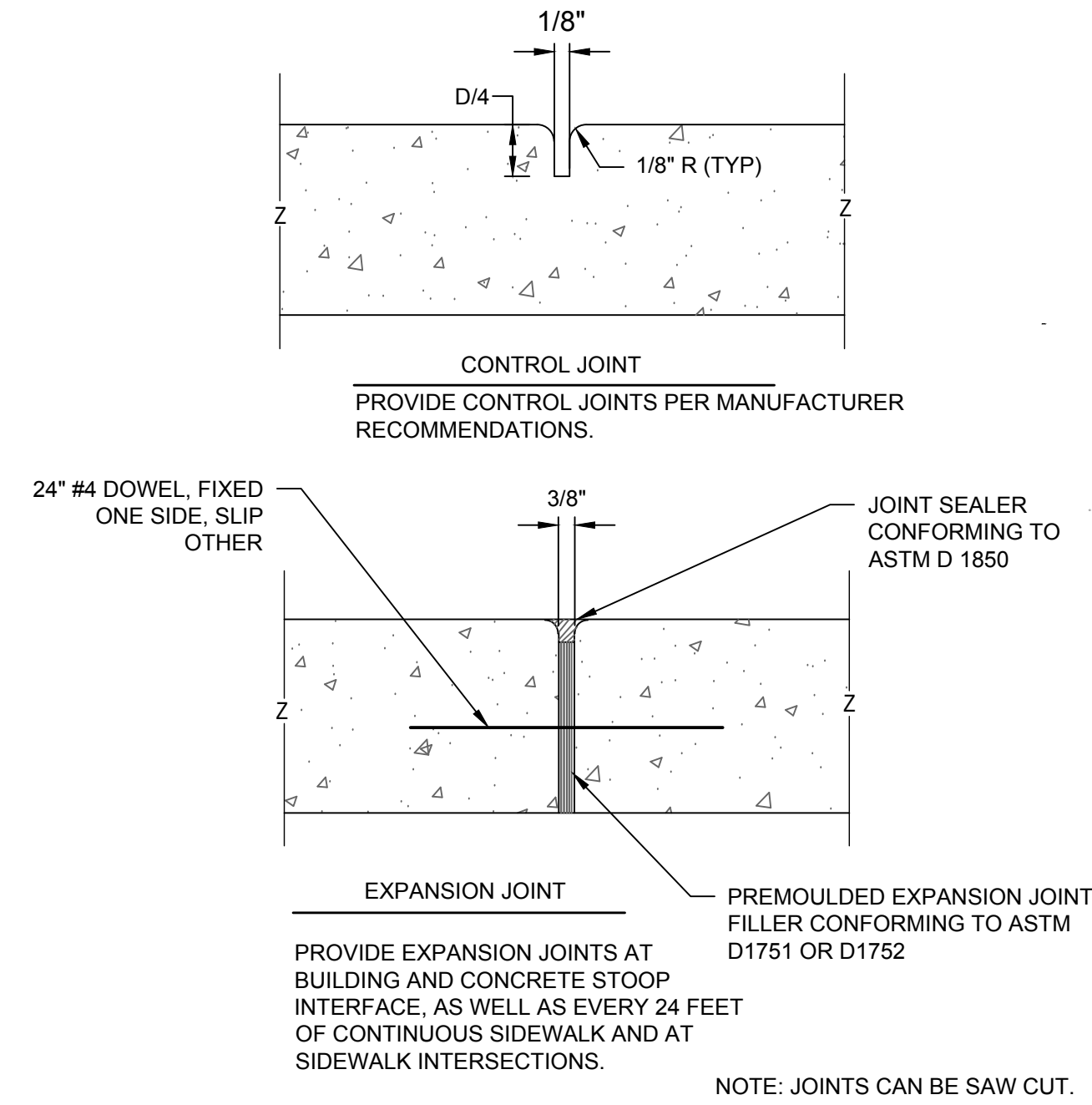
NOTE: VERIFY PAVEMENT SECTION DESIGN AND SUBGRADE REQUIREMENTS WITH GEOTECHNICAL REPORT AND RECOMMENDATIONS PRIOR TO CONSTRUCTION.

1 ASPHALT PAVING SECTION
NTS



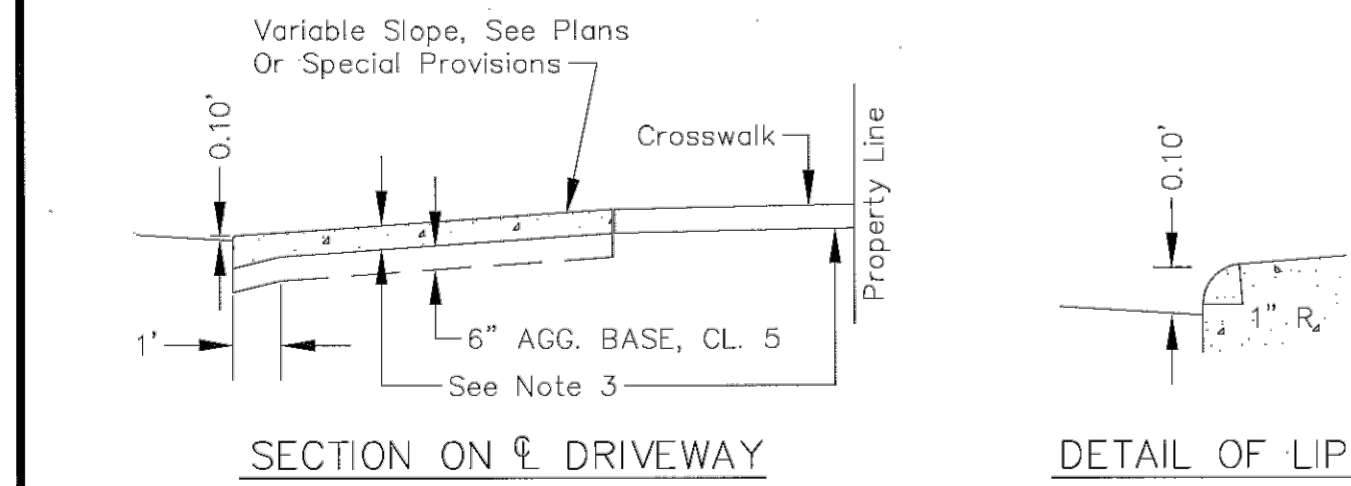
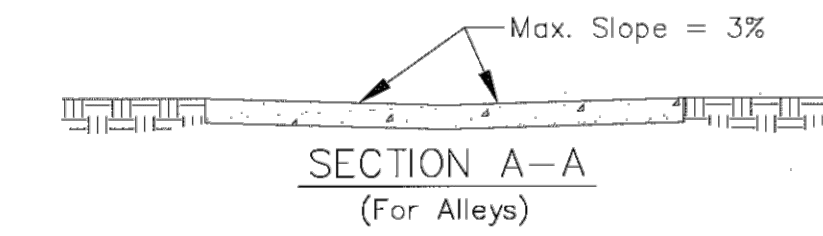
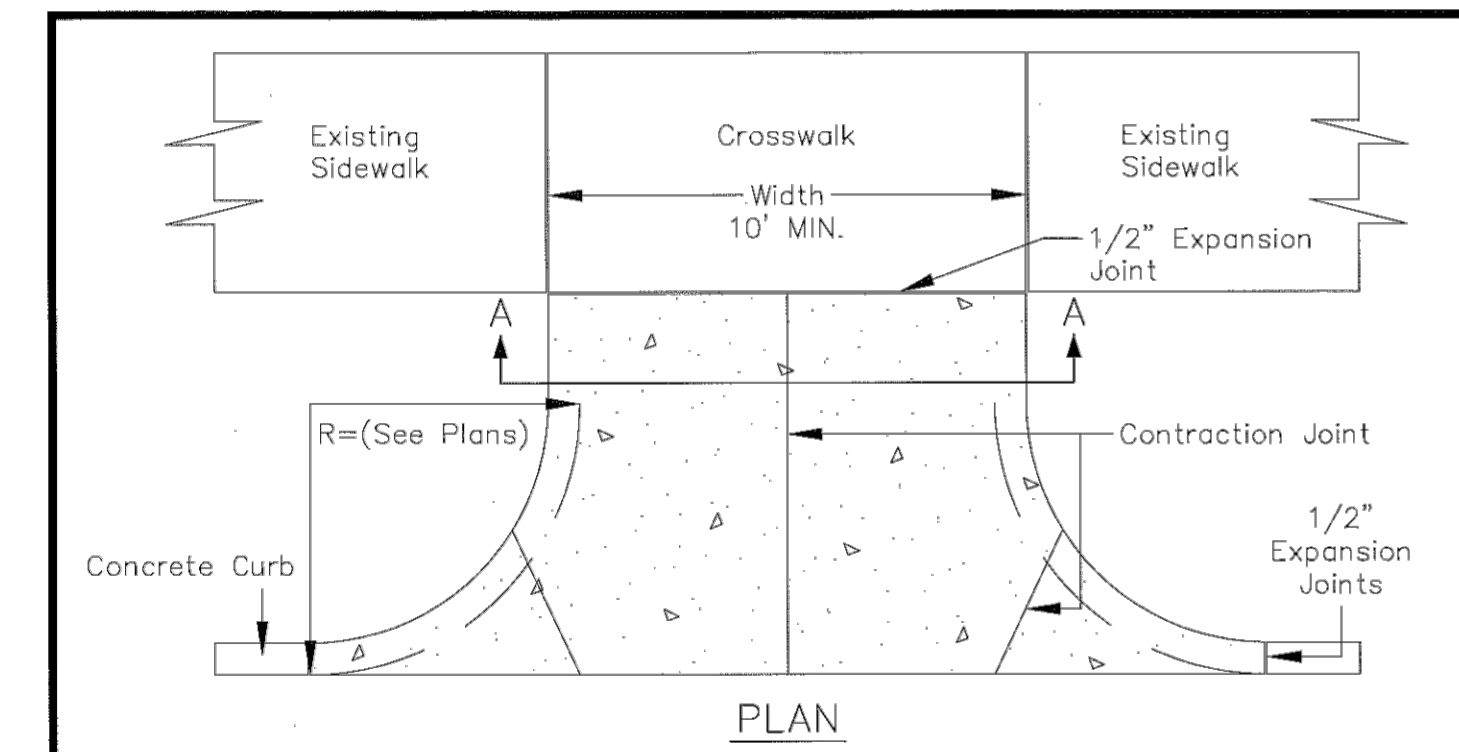
NOTE: VERIFY PAVEMENT SECTION DESIGN AND SUBGRADE REQUIREMENTS WITH GEOTECHNICAL REPORT AND RECOMMENDATIONS PRIOR TO CONSTRUCTION.

2 CONCRETE PAVEMENT DETAIL
NTS



NOTE: JOINTS CAN BE SAW CUT.

3 CONCRETE JOINT DETAIL
NTS

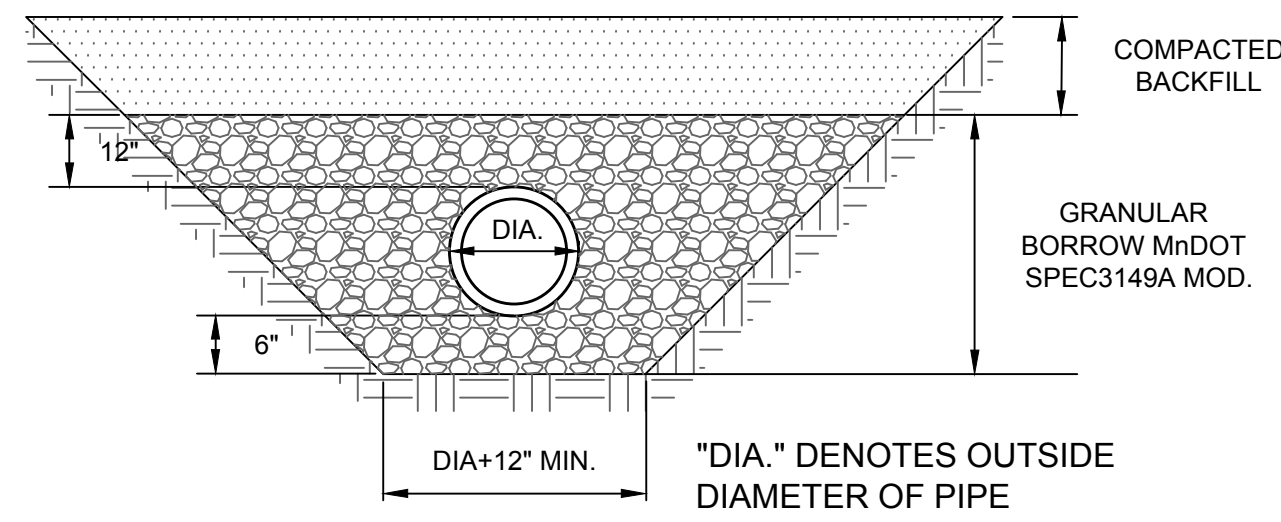


I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
DANIEL A. HAAK
Date: 11/25/15 Lic. No. 17224

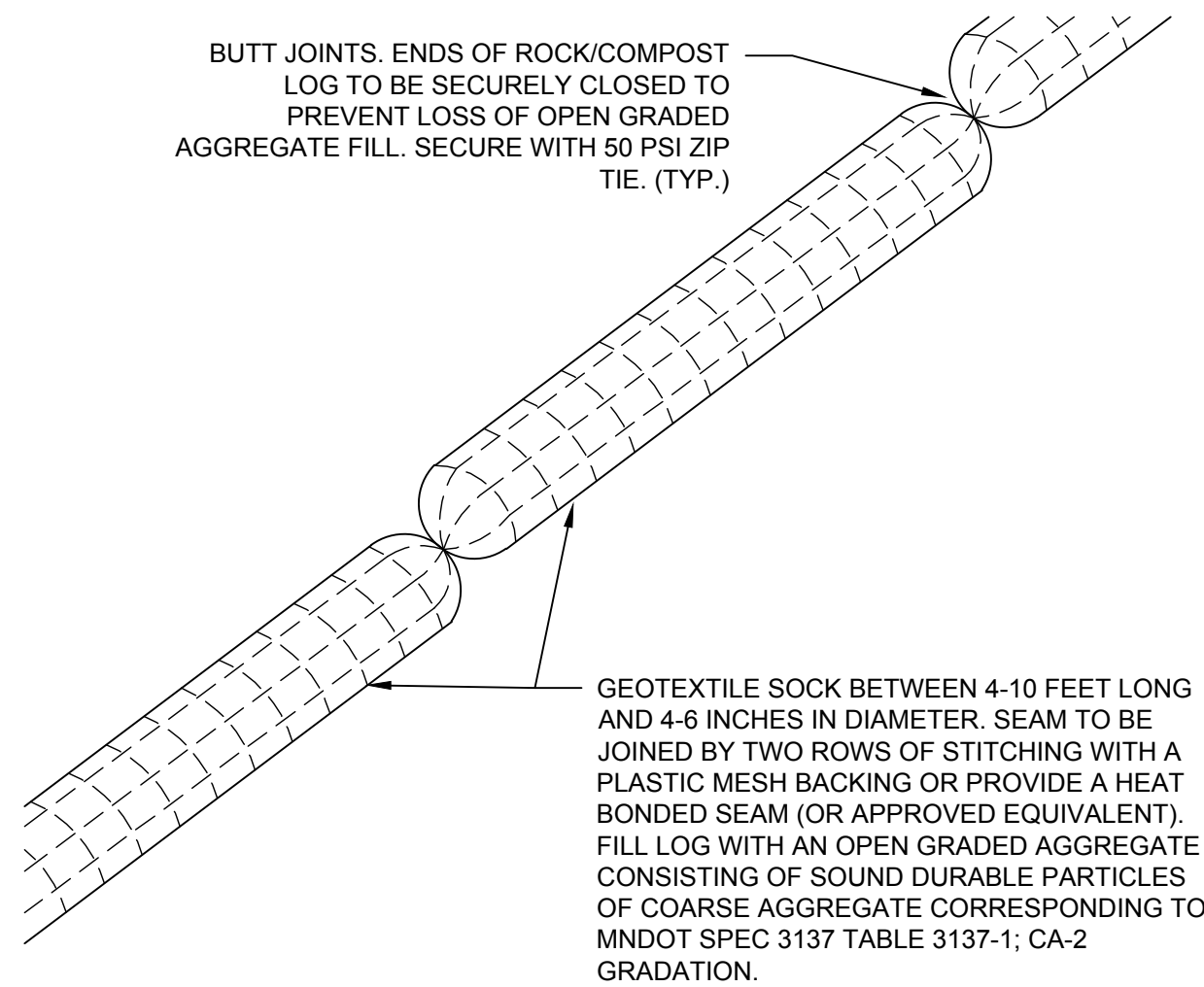
- Panel Width Shall Not Exceed 10' Without A Centerline Contraction Joint.
- Driveway To Be One Course Concrete Pavement, Mix No. 3F52.
- 6" Thick For Residential, 8" Thick For Commercial Drives And Alleys.

APPROVED: <i>[Signature]</i> CITY ENGINEER	CITY OF ST. PAUL DEPARTMENT OF PUBLIC WORKS CONCRETE DRIVEWAY TYPE 2	Date of Revision NOV 2015	Standard Plate No. 1201D
--	---	------------------------------	-----------------------------

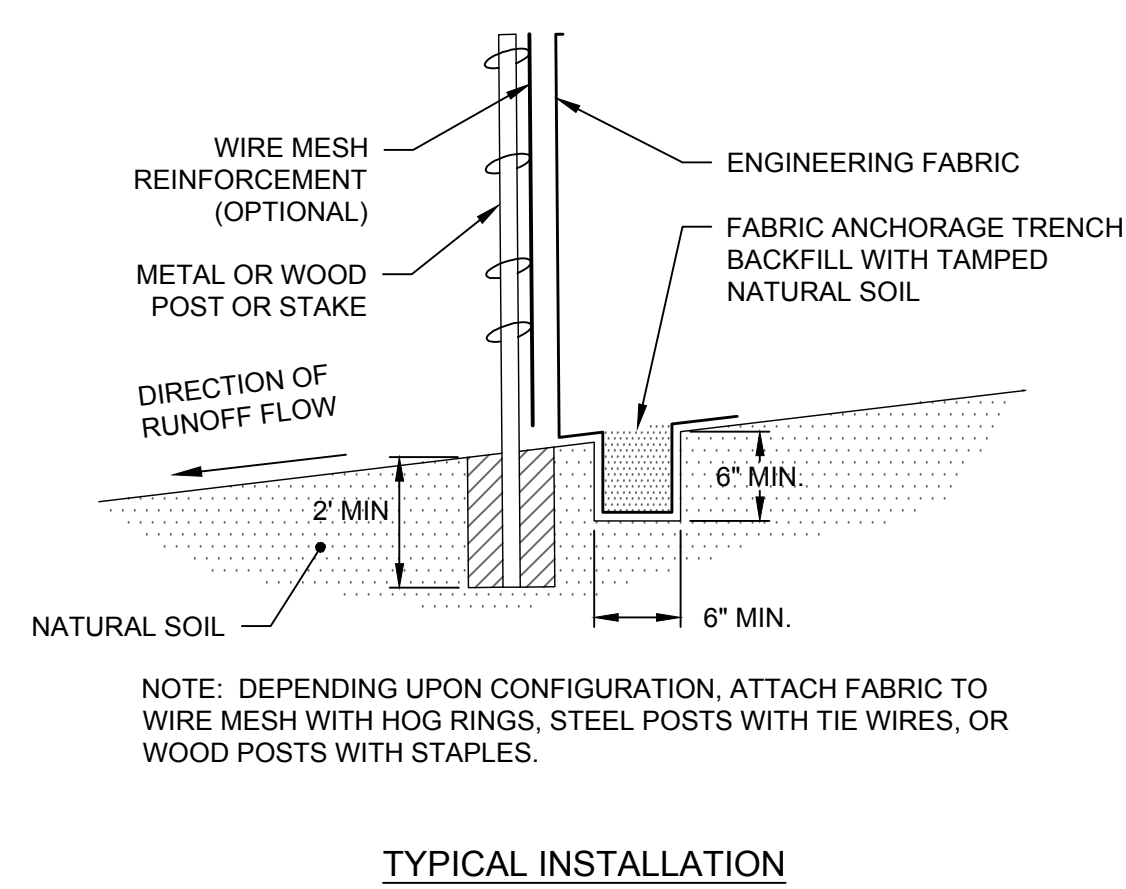
7 CITY OF ST. PAUL CONCRETE DRIVEWAY DETAIL
NTS



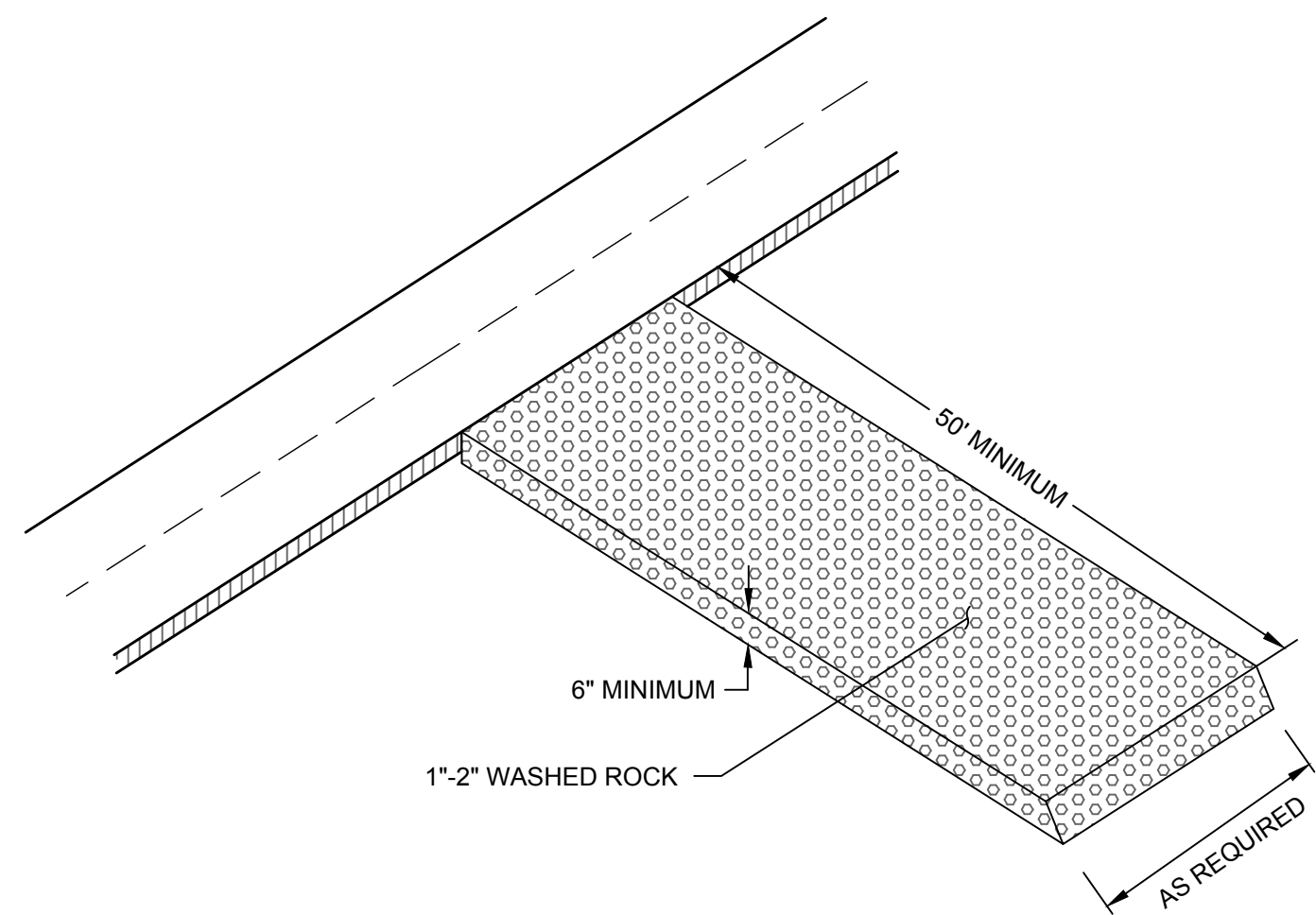
4 ROOF DRAIN EXTENSION PIPE BEDDING
NTS



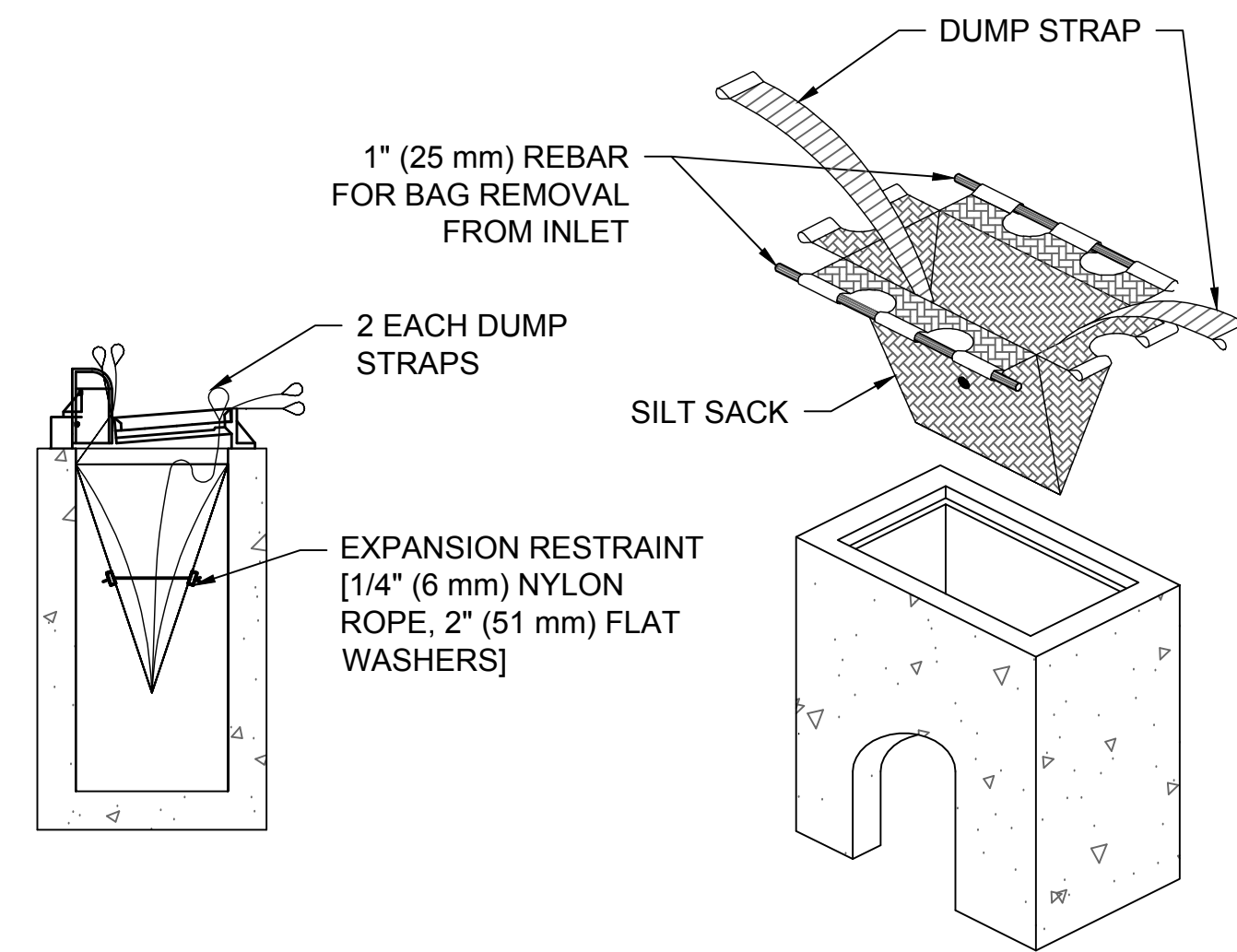
5 BIOROLL DETAIL
NTS



6 EROSION CONTROL FENCE
NTS



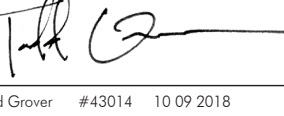
8 ROCK CONSTRUCTION ENTRANCE
NTS



9 INLET PROTECTION SEDIMENT FILTER SACK
NTS

To be submitted with 90% review

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.



Todd Gilman #42014 10/09/2018

REVISIONS		
No.	Description	Date

60% Legacy Grant Review

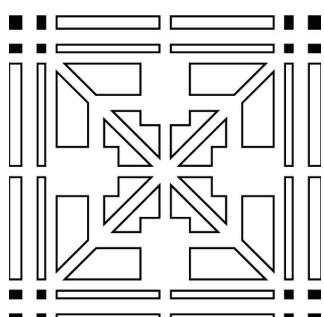
CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104

DRAWN BY Author DATE 09/17/20

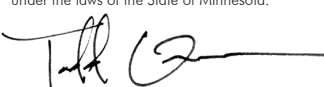
REVISIONS

02-01	REMOVE AND SALVAGE LIGHT POSTS.
02-02	REMOVE PORCH RAILINGS AND STAIR HANDRAILS.
02-03	REMOVE AND SALVAGE STONE STEPS.
02-04	REMOVE QUARRY TILES, SALVAGE WHERE POSSIBLE.
02-05	REMOVE MESH SCREEN AND SALVAGE FRAME.
02-06	DISMANTLE PIERS, INCLUDING CONCRETE BASES, SALVAGE BRICK.
02-07	DISMANTLE STAIR WALLS, SALVAGE BRICK AND DISPOSE OF CAST STONE CAPS, CONCRETE FOUNDATION AND BASE TO REMAIN.
02-08	REMOVE BRICK INFILL IN PORCH OPENINGS AND DEMOLISH CONCRETE INFILL. TAKE CARE NOT TO DAMAGE ORIGINAL SURROUNDING MASONRY AND CONCRETE.
02-09	DEMOLISH WALL AND NOTIFY ARCHITECT, ARCHITECT TO INSPECT AREA BENEATH STAIRS BEFORE INFILLED.
02-10	INSTALL TEMPORARY SHORING AT PORCH ROOF AND DEMOLISH COLUMNS, SALVAGE CAST STONE BASES FOR REINSTALLATION.
02-11	REMOVE CAST STONE AT PORCH EDGE, REMOVE AND SALVAGE STONE BENEATH FOR REINSTALLATION.
02-12	SALVAGE DOOR FOR REINSTALLATION.
02-13	REMOVE ALL EXISTING TOILET ROOM PARTITIONS AND STALL DOORS.
02-14	REMOVE TOILETS.
02-15	REMOVE WALLS AND CONCRETE AT GRADE. SEE STRUCTURAL DRAWINGS FOR EXTENT BELOW GRADE.
02-16	REMOVE METAL BARS FROM WINDOWS.
02-18	DISMANTLE WINDOW AND FRAME, SELECTIVELY REMOVE PORTION OF EXTERIOR BRICK WALL. SEE DEMOLITION DETAILS. DISMANTLE CAST STONE SILL.
02-19	REMOVE WALL.
02-20	REMOVE DOOR, RETAIN DOOR CASING AND TRIM IN PLACE.
02-21	REMOVE RADIATOR.
02-22	REMOVE KITCHEN APPLIANCES.
02-23	REMOVE COUNTERTOPS.
02-24	REMOVE CEILING.
02-25	REMOVE LIGHT FIXTURE.
02-27	REMOVE SINK FIXTURE.
02-28	REMOVE URINAL.
02-29	REMOVE WINDOW.
02-30	REMOVE BATHTUB.
02-31	REMOVE KITCHEN SINK.
02-32	PARTITION TO BE REMOVED
02-49	VCT FLOOR TILES TO BE REMOVED
02-51	CARPET TO BE REMOVED
02-52	VINYL FLOORING TO BE REMOVED
02-53	Laminate flooring to be removed
02-54	REMOVE HVAC UNITS
02-55	REMOVE FLUORESCENT LIGHT TRAYS
02-57	REMOVE EXISTING PLYWOOD COVERINGS OVER OPENINGS.
03-01	INFILL OPENINGS WITH CONCRETE MASONRY UNITS.
03-02	INFILL AREA BENEATH STAIR. SEE STRUCTURAL.
03-03	POUR CONCRETE FOOTINGS AND PIER BASE.
03-04	RECONSTRUCT CONCRETE SIDEWALK. SEE CIVIL.
04-01	RESET STONE AT PORCH EDGE AND INSTALL REPLACEMENT CAST STONE TO MATCH ORIGINAL.
04-02	REBUILD STAIR WALLS USING SALVAGED BRICK WHERE NECESSARY. INSTALL REPLACEMENT CAST STONE CAPS TO MATCH ORIGINAL.
04-03	REPLACE CAST STONE AT STAIRS AND TOP BAND AT PORCH. PAINT (DO NOT PAINT STEPS).
04-04	INSTALL FLEXIBLE JOINT.
04-05	REINSTALL STEPS.
04-06	CLEAN CAST STONE AROUND DOOR AND THRESHOLD.
04-07	REPAIR CRACK/HOLE IN CONCRETE/MASONRY.
04-08	REBUILD PIER AND STONE CAP.
05-01	RESTORE AND REINSTALL LAIRS, PAINT METAL AND PROVIDE NEW GLOBES.
05-02	INSTALL GUARDRAIL AT PORCH AND HANDRAIL AT STEPS.
05-03	INSTALL BALCONY GUARDRAIL.
05-04	INSTALL HANDRAIL.
06-01	INSTALL WOOD BALUSTRADE AT PORCH AND STEPS.
06-02	INSTALL DORIC COLUMNS AND REINSTALL SALVAGED BASES.
06-03	REPAIR WOOD DOOR TRIM, PAINT. SEE DOOR SCHEDULE FOR DOOR REPAIRS.
06-04	INSTALL BALCONY RAILING POST.
06-05	INSTALL BALCONY BALUSTRADE.
06-06	REPAIR WOOD ENTABLATURE, INCLUDING CORNICE, INSIDE OF FRIEZE, AND ARCHITRAVE, WITH CONSOLIDANT, PAINT.
06-07	REPAIR AND PAINT SALVAGED WOOD FRAME AND INSTALL NEW PAINTED PLYWOOD PANEL IN PLACE OF MESH. REINSTALL.
06-08	REPAIR LOWER PORTION OF CORNICE, REPAINT.
07-01	REPAIR AND EXTEND DOWNSPOUTS TO PROVIDE DRAINAGE AWAY FROM THE BUILDING. PAINT EXISTING PIECES AS REUSED.
08-01	APPLY VINYL PRIVACY FILM TO EXISTING GLAZING.
08-02	REPAIR DOORS AND PAINT, INCLUDING WOOD TRIM, REPLACE HARDWARE, SEE DOOR SCHEDULE.
08-03	INSTALL PERMANENT DOOR STOP. SEE DOOR SCHEDULE.
08-04	REPAINT WOOD EXTERIOR OF WINDOW/DOOR.
09-01	REINSTALL SALVAGED QUARRY TILES AND INSTALL NEW TILE WHERE NECESSARY.
09-02	RESTORE PLASTER WALL, MATCH EXISTING TEXTURE AND FINISH. PAINT.
09-03	SCRAPE AND REPAINT WOOD TRIM AND CORNICE OF BOW WINDOW EXTERIOR.
09-04	PAINT EXISTING FLASHING.
09-05	PAINT METAL CORNICE AND PARAPET CAP.
10-01	PROVIDE MIRROR. SEE PLUMBING ACCESSORY SCHEDULE.
10-02	PROVIDE WALL-MOUNTED SOAP DISPENSER. SEE PLUMBING ACCESSORY SCHEDULE.
10-06	PROVIDE PAPER TOWEL DISPENSER. SEE PLUMBING ACCESSORY SCHEDULE.
22-01	PROVIDE WALL MOUNTED TOILET. SEE PLUMB. DWGS.
22-02	PROVIDE WALL MOUNT FAUCET SINK. SEE PLUMB. FIXTURE SCHEDULE AND PLUMB. DWGS.
22-04	PROVIDE WALL MOUNTED URINAL. SEE PLUMB. FIXTURE SCHEDULE AND PLUMB. DWGS.
23-01	REGRADE DISTURBED AREA AROUND BOTTOM OF STAIRS AND PIERS. REPLACE SOD.
26-01	INSTALL LIGHT FIXTURE. SEE SCHEDULE.
26-02	

LEGEND



MacDONALD & MACK
 400 SOUTH FOURTH STREET, 7, 10, MINNEAPOLIS, MINNESOTA, 55415
 P. 612.341.4851 F. 612.347.5843 WWW.MAMARCHITD.COM

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

 Todd Gross #42014 10/09/2018

REVISIONS	
No.	Description

60% Legacy Grant Review

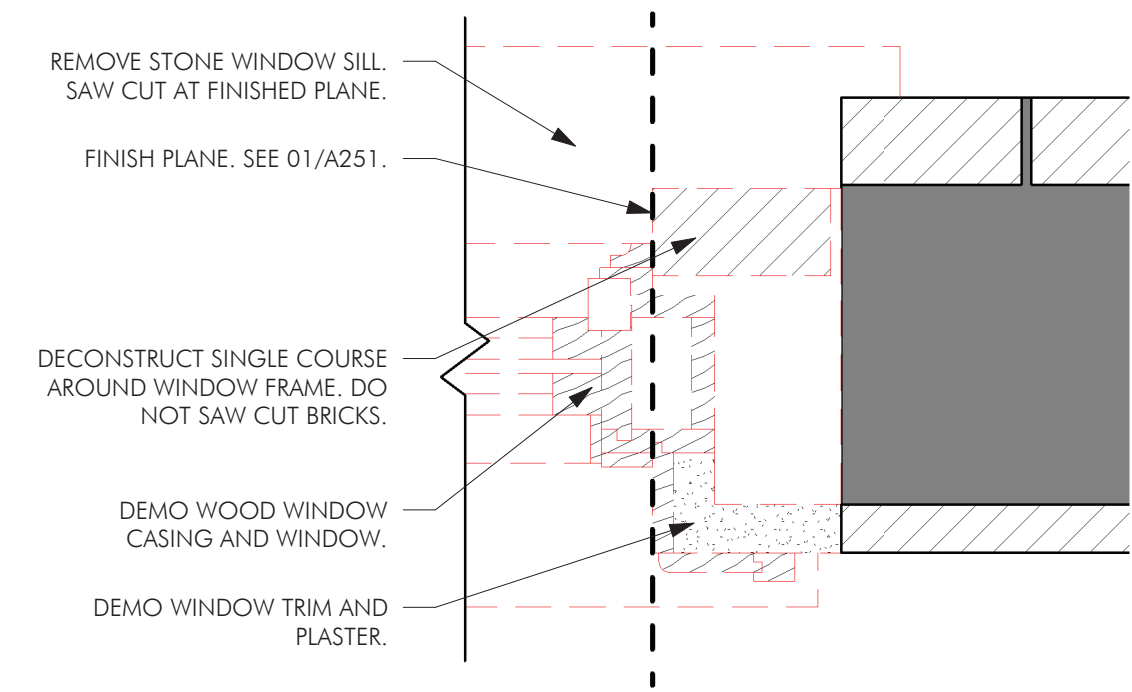
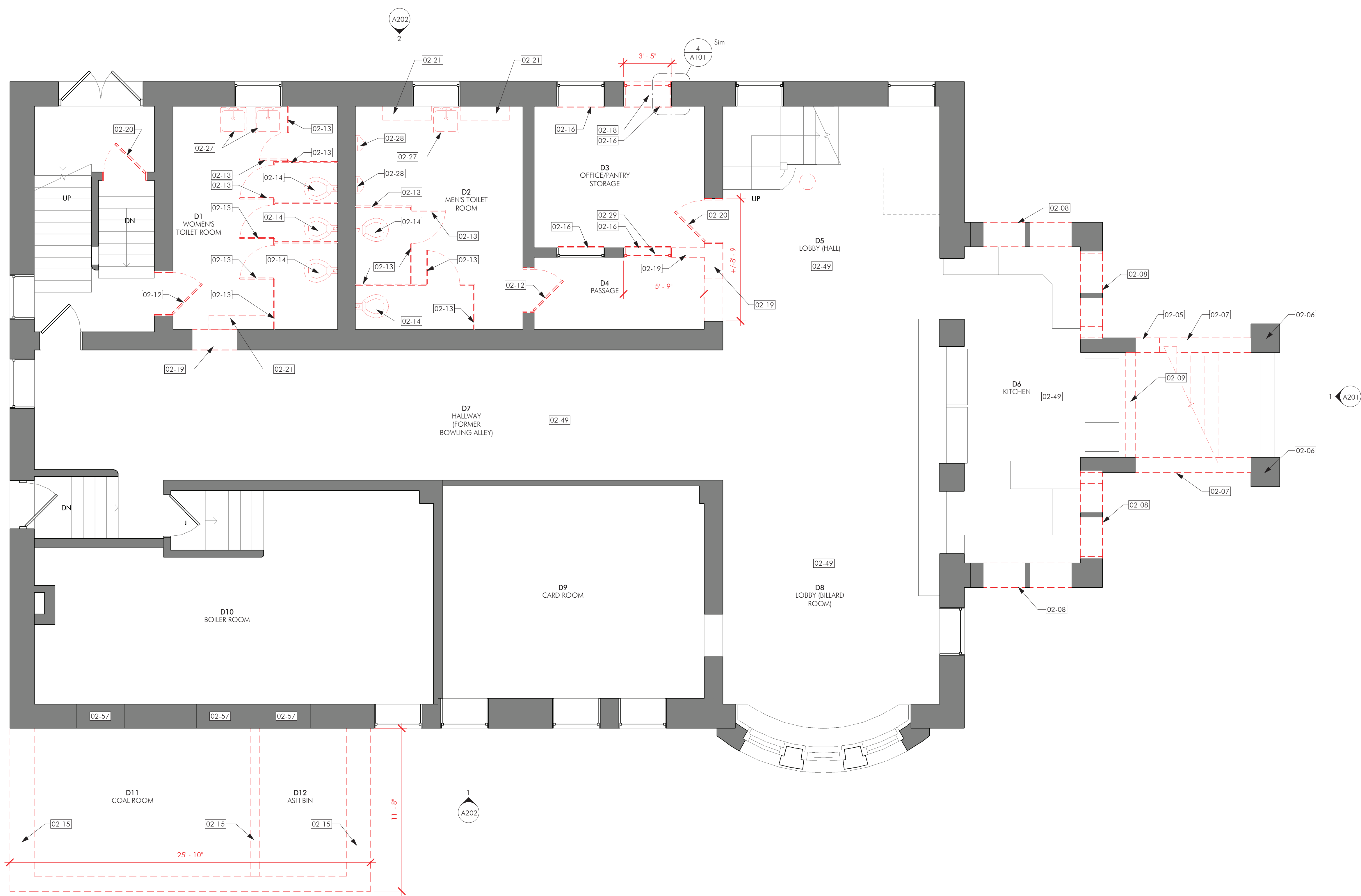
CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY Author
 DATE 01/08/21

KEYNOTES

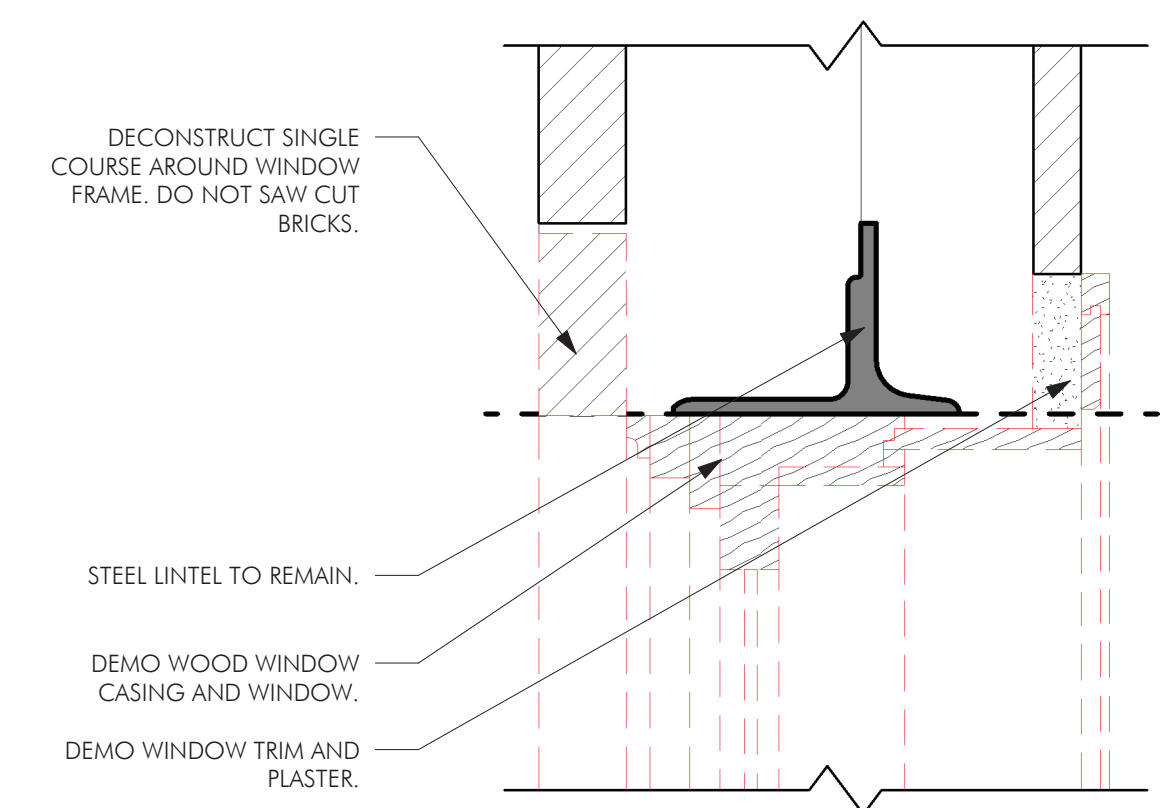
A002

REVISIONS

1. PLEASE REFER TO SHEET G000 FOR GENERAL NOTES AND SPECIAL REQUIREMENTS.



4 DEMOLITION AT EXISTING WINDOW OPENINGS, TYPICAL
 A101 1 1/2" = 1'-0"



5 DEMOLITION AT EXISTING WINDOW TOP JAMB, TYPICAL
 A101 1 1/2" = 1'-0"

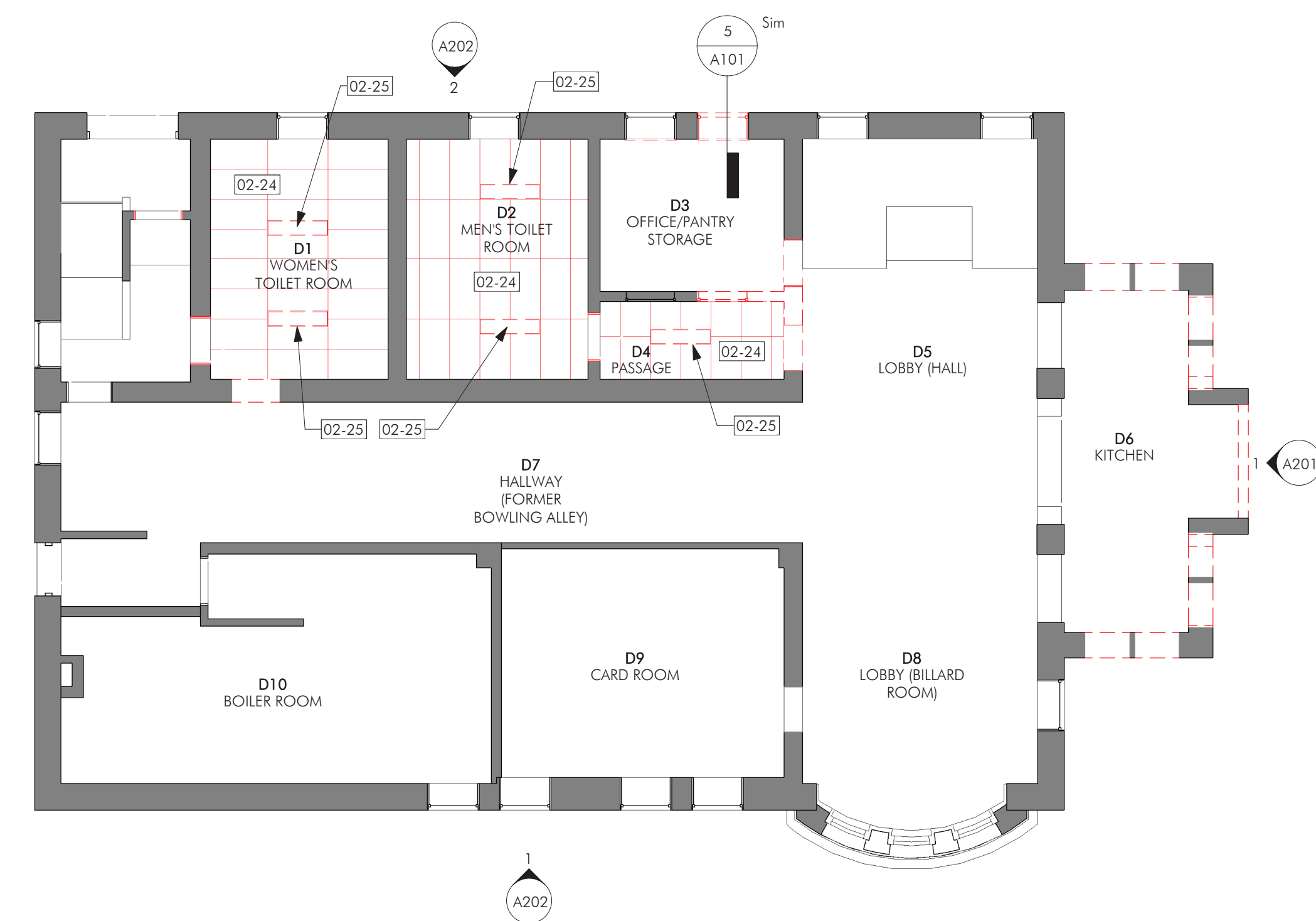
KEYNOTES

02-05	REMOVE MESH SCREEN AND SALVAGE FRAME.
02-06	DISMANTLE PIERS, INCLUDING CONCRETE BASES, SALVAGE BRICK.
02-07	DISMANTLE STAIR WALLS. SALVAGE BRICK AND DISPOSE OF CAST STONE CAPS. CONCRETE FOUNDATION AND BASE TO REMAIN.
02-08	REMOVE BRICK INFILL IN PORCH OPENINGS AND DEMOLISH CONCRETE INFILL. TAKE CARE NOT TO DAMAGE ORIGINAL SURROUNDING MASONRY AND CONCRETE.
02-09	DEMOLISH WALL AND NOTIFY ARCHITECT. ARCHITECT TO INSPECT AREA BENEATH STAIRS BEFORE INFILL.
02-10	INSTALL TEMPORARY SHORING AT PORCH ROOF AND DEMOLISH COLUMNS. SALVAGE CAST STONE BASES FOR REINSTALLATION.
02-12	SALVAGE DOOR FOR REINSTALLATION.
02-13	REMOVE ALL EXISTING TOILET ROOM PARTITIONS AND STALL DOORS.
02-14	REMOVE TOILETS.
02-15	REMOVE WALLS AND CONCRETE AT GRADE. SEE STRUCTURAL DRAWINGS FOR EXTENT BELOW GRADE.
02-16	REMOVE METAL BARS FROM WINDOWS.
02-18	DISMANTLE WINDOW AND FRAME. SELECTIVELY REMOVE PORTION OF EXTERIOR BRICK WALL. SEE DEMOLITION DETAILS. DISMANTLE CAST STONE SILL.
02-19	REMOVE WALL.
02-20	REMOVE DOOR, RETAIN DOOR CASING AND TRIM IN PLACE.
02-21	REMOVE RADIATOR.
02-24	REMOVE CEILING.
02-25	REMOVE LIGHT FIXTURE.
02-27	REMOVE SINK FIXTURE.
02-28	REMOVE URINAL.
02-29	REMOVE WINDOW.
02-49	VCCT FLOOR TILES TO BE REMOVED
02-57	REMOVE EXISTING PLYWOOD COVERINGS OVER OPENINGS.

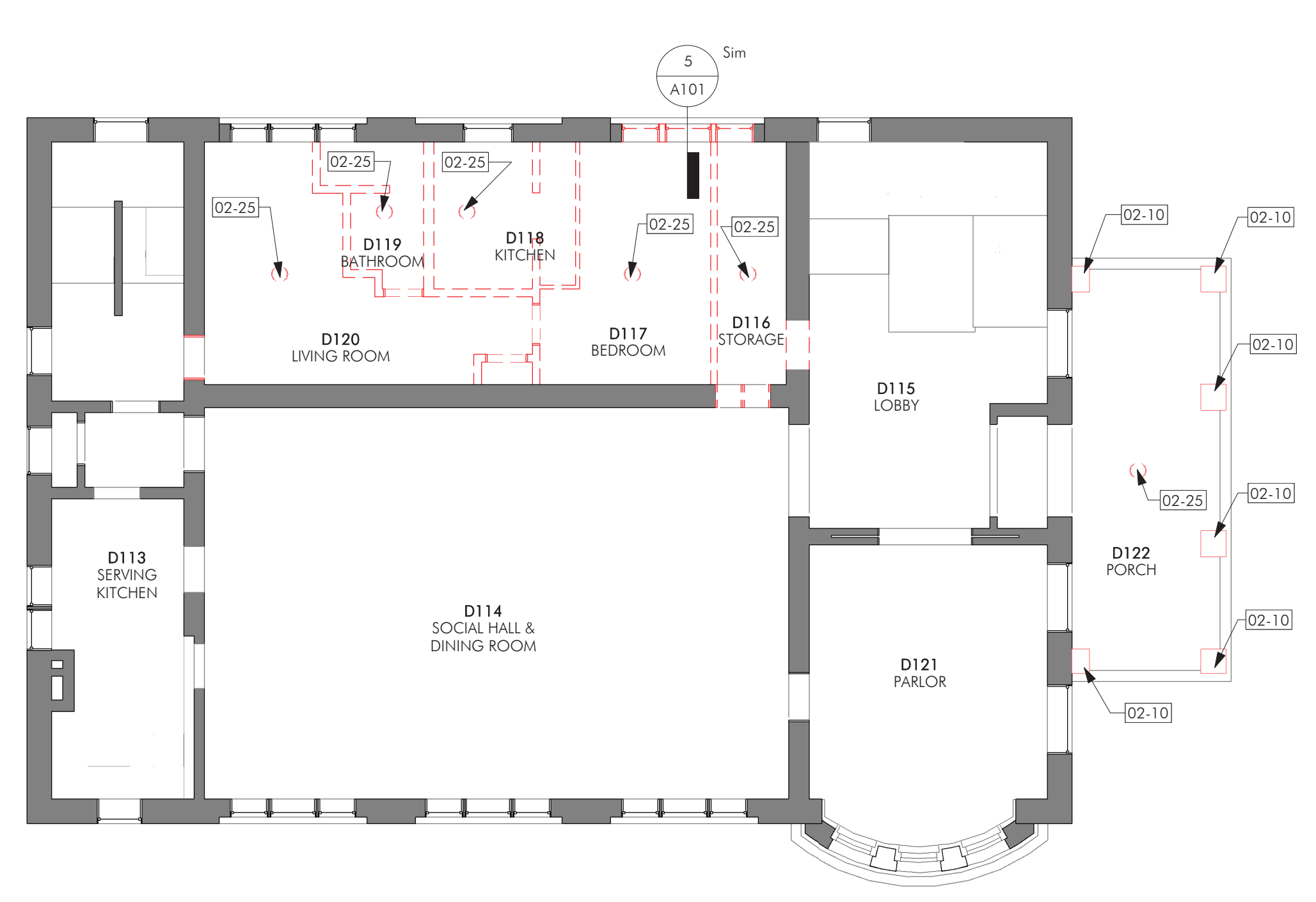
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.
 Todd Crowe #A2014 10/09/2018

REVISIONS		
No.	Description	Date

1 LOWER LEVEL DEMOLITION PLAN
 A101 1/4" = 1'-0"



2 LOWER LEVEL DEMOLITION RCP
 A101 1/8" = 1'-0"

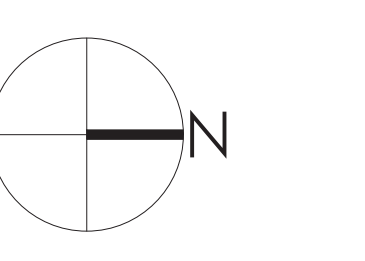


3 FIRST FLOOR DEMOLITION RCP
 A101 1/8" = 1'-0"

LEGEND

- REMOVE/DISMANTLE
- DEMOLISH MASONRY, SALVAGE AS NOTED

60% Legacy Grant Review



CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY Author DATE 09/29/20

REVISIONS

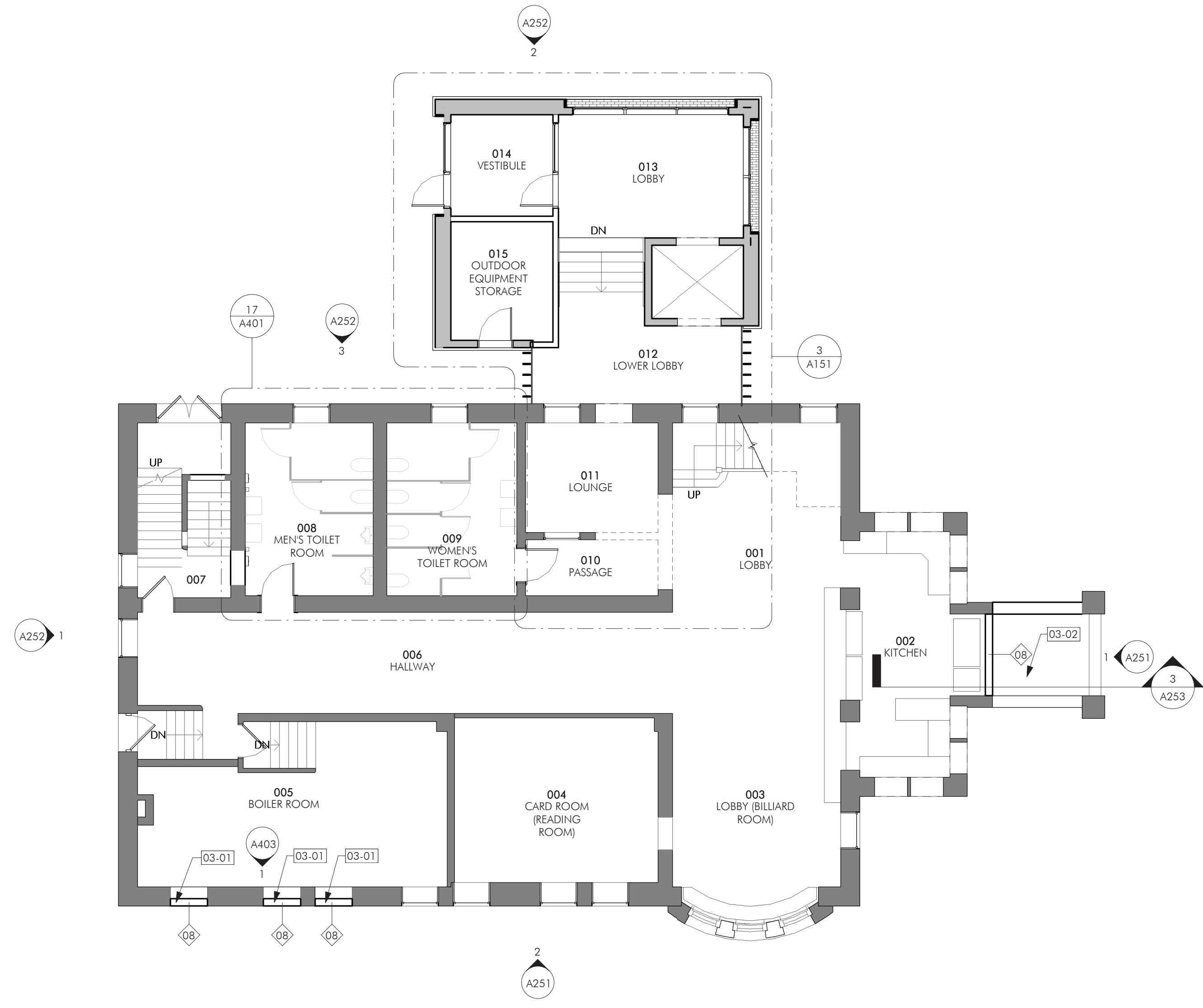
DEMOLITION PLANS & DEMOLITION RCPS

A101

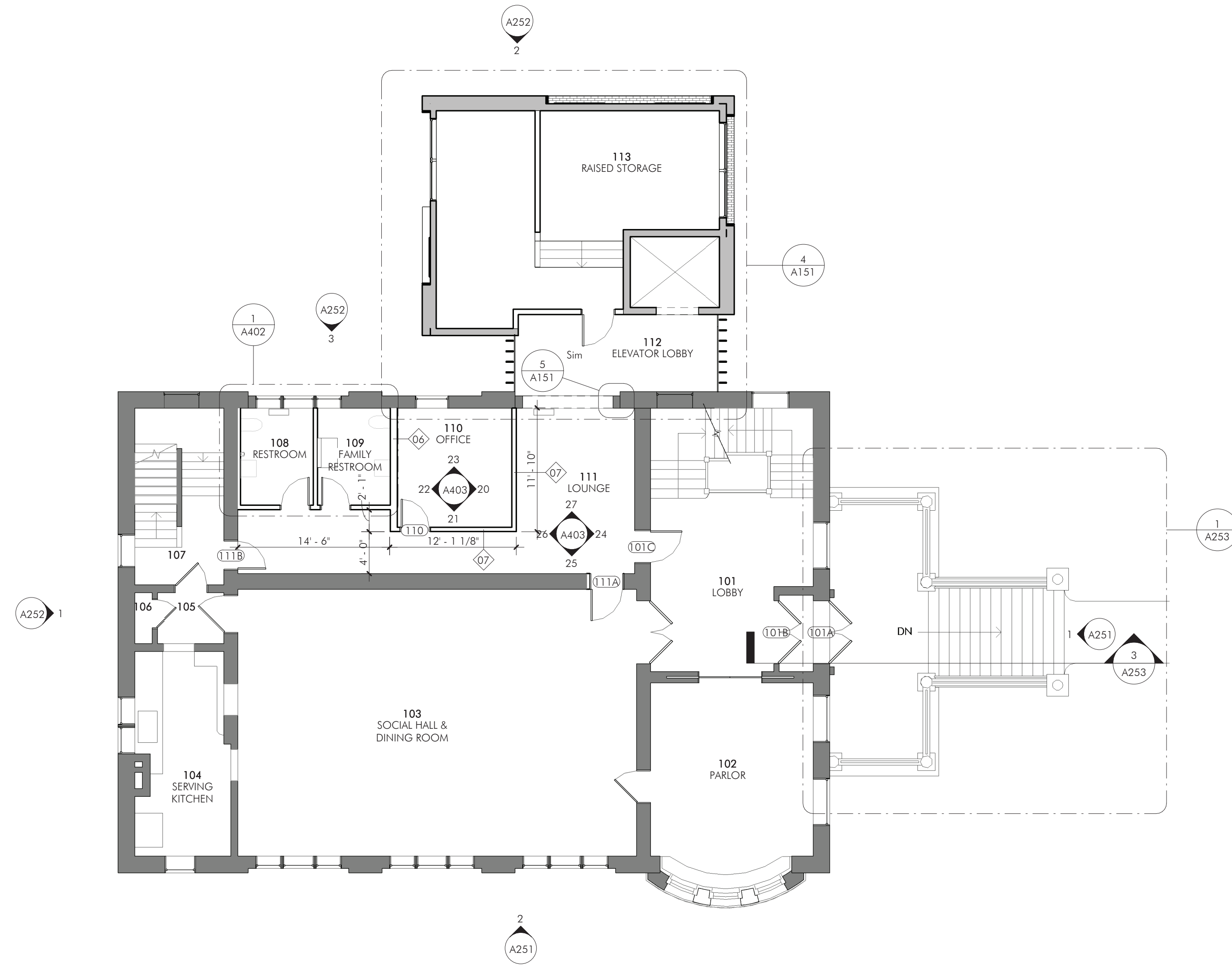
- PLEASE REFER TO SHEET G000 FOR GENERAL NOTES AND SPECIAL REQUIREMENTS.
- FULL HEIGHT METAL STUD PARTITIONS SHALL RUN FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE AND INCLUDE FINISH MATERIAL FOR FULL HEIGHT.
- FURRING PARTITIONS SHALL RUN TO 6" ABOVE THE FINISHED CEILING AND SHALL BE BRACED BACK TO THE EXISTING WALL.
- ALL FULL HEIGHT METAL STUD PARTITIONS SHALL BE 24" O.C.
- ALL MEASUREMENTS TAKEN FROM FINISH FACE OF WALLS.

KEYNOTES

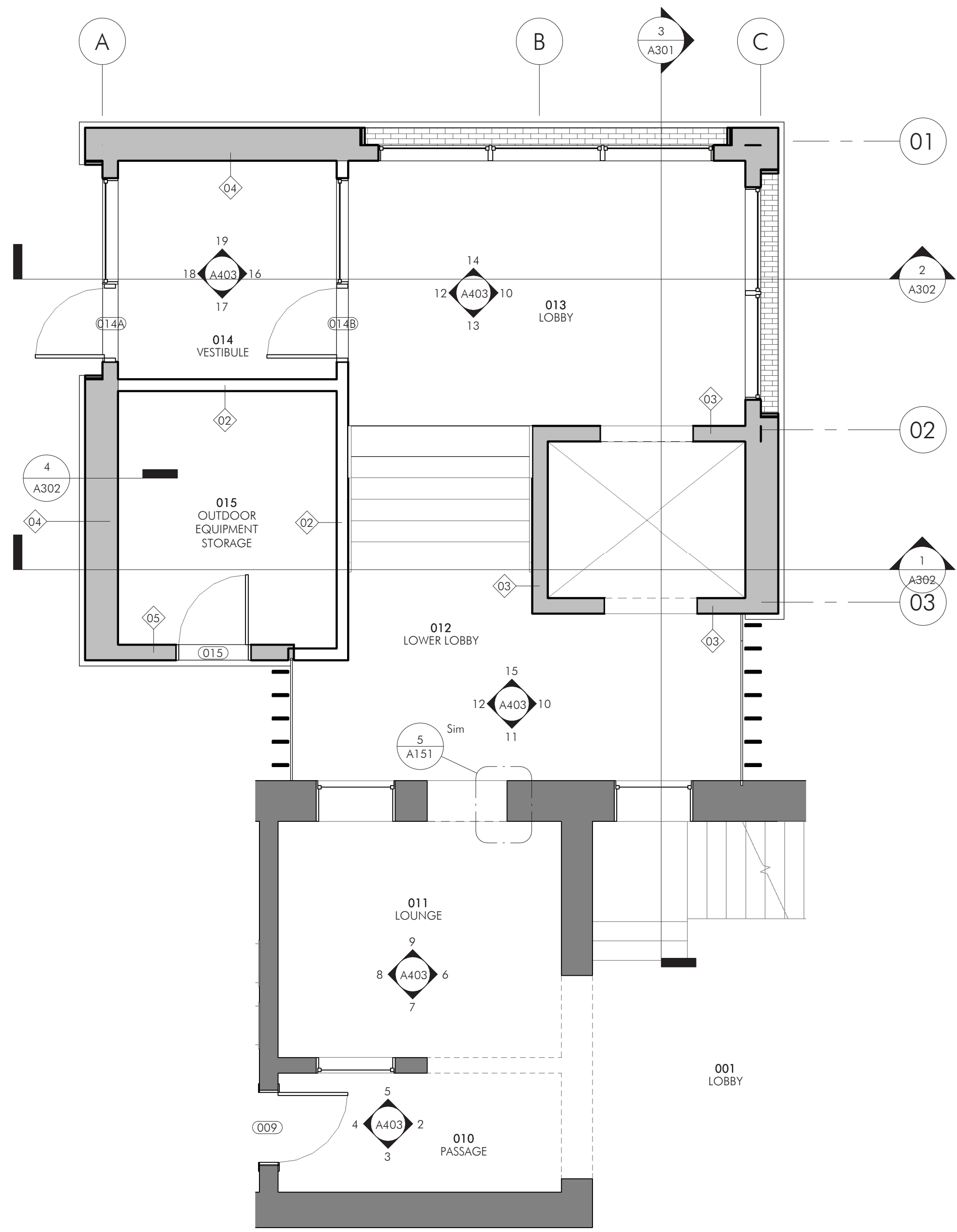
- 03-01 INFILL OPENINGS WITH CONCRETE MASONRY UNITS.
- 03-02 INFILL AREA BENEATH STAIR. SEE STRUCTURAL.



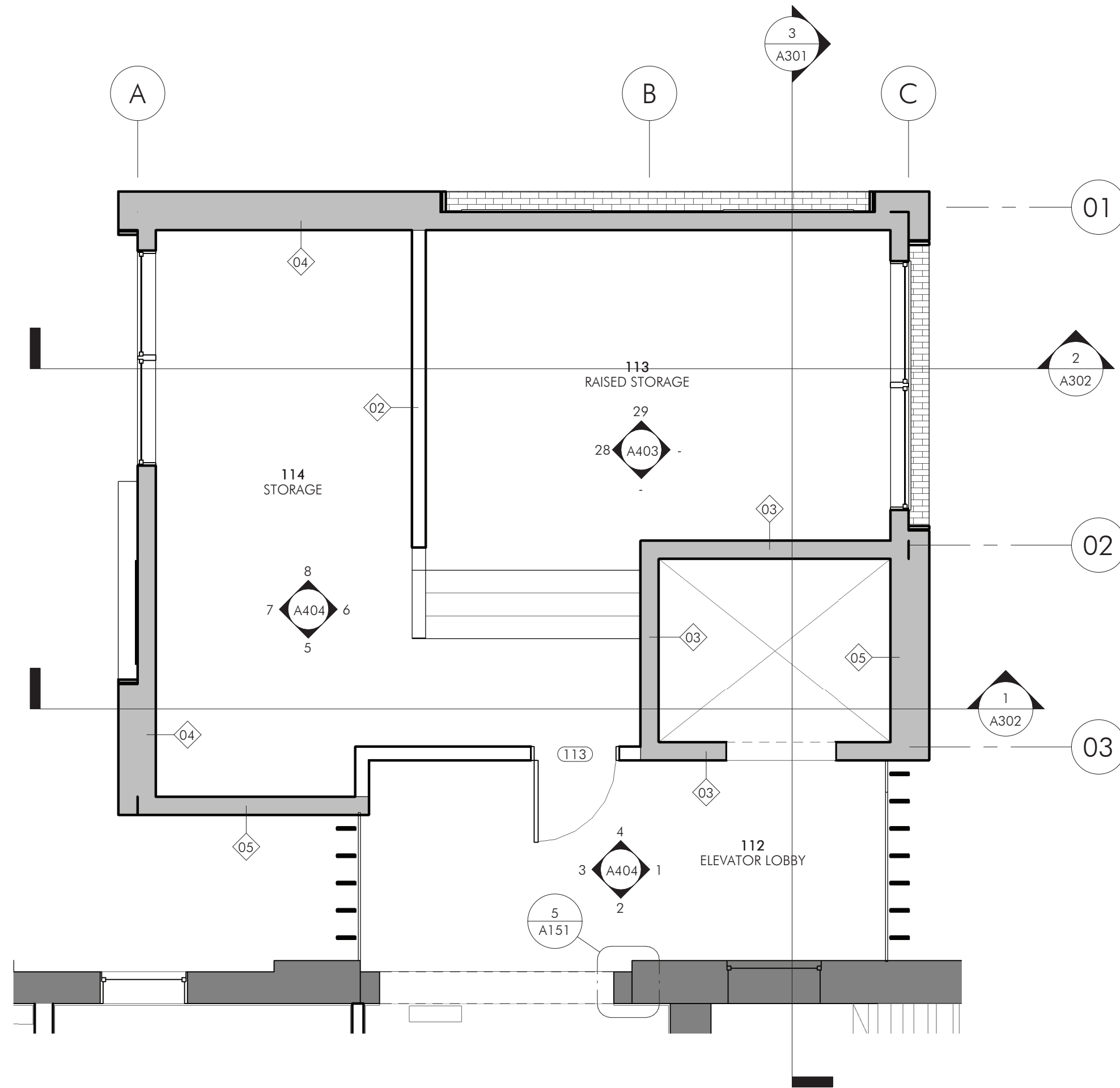
2 LOWER LEVEL CONSTRUCTION PLAN
 A151 1/8" = 1'-0"



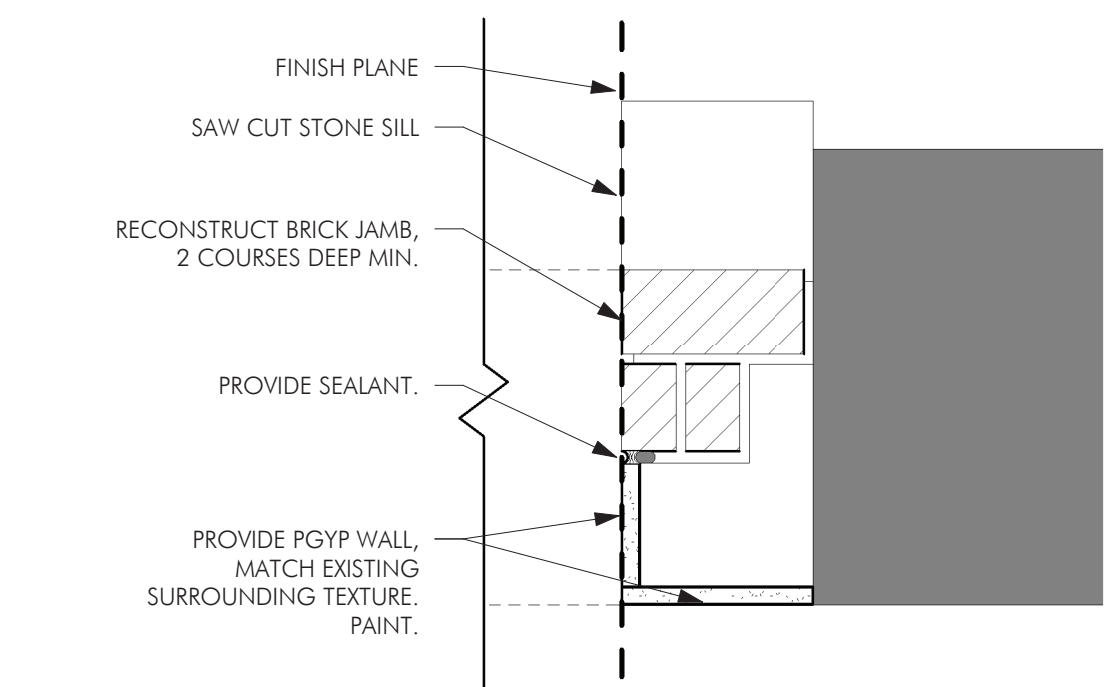
1 FIRST FLOOR CONSTRUCTION PLAN
 A151 1/8" = 1'-0"



3 ADDITION - LOWER LEVEL FLOOR PLAN
 A151 1/4" = 1'-0"



4 ADDITION - FIRST FLOOR PLAN
 A151 1/4" = 1'-0"

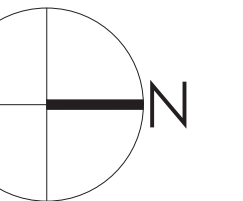


5 RECONSTRUCTION AT EXISTING WINDOW OPENINGS, TYPICAL
 A151 1 1/2" = 1'-0"

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

REVISIONS	
No.	Description

60% Legacy Grant Review



CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY DATE
 Author 09/18/20
 REVISIONS

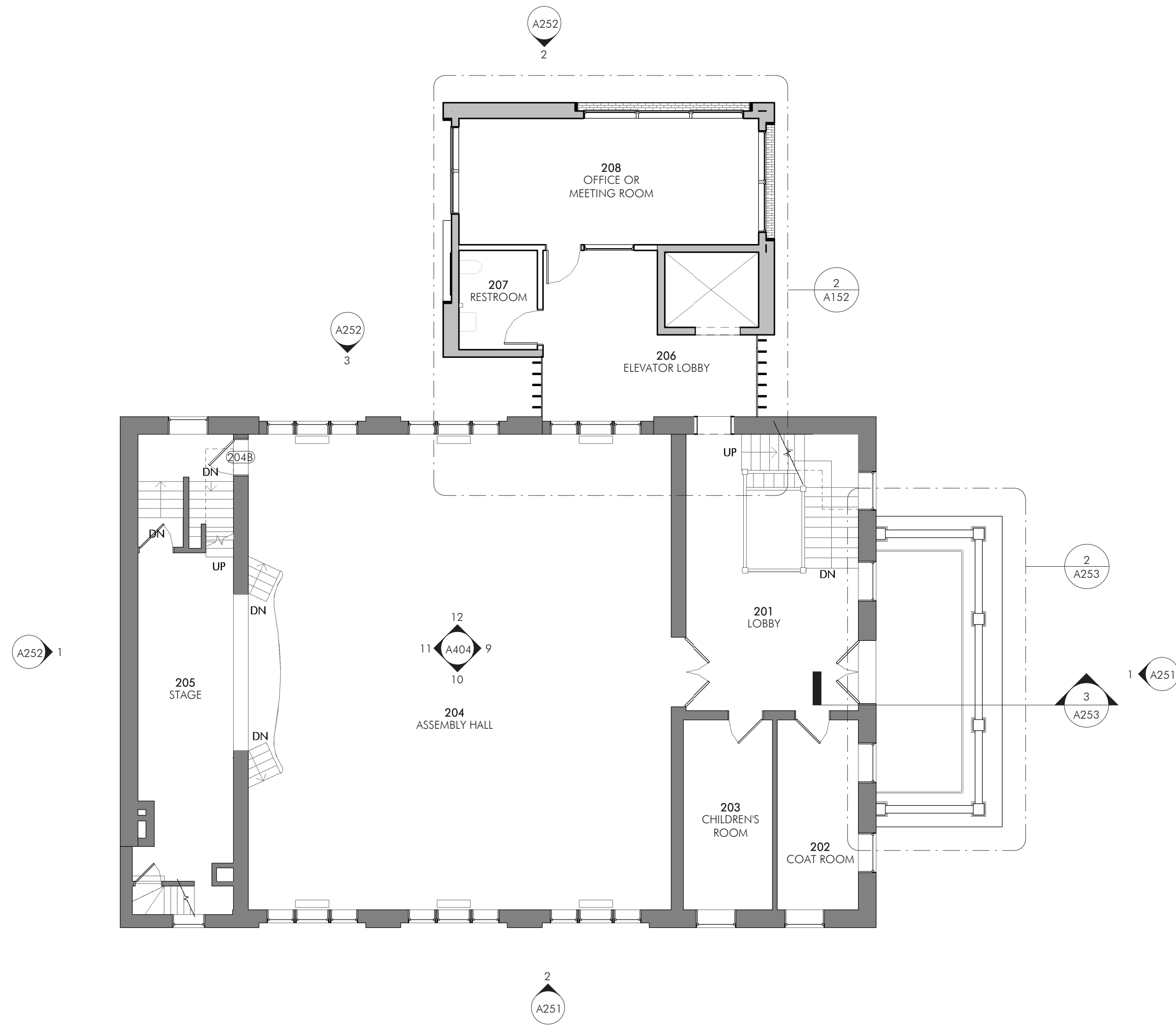
CONSTR PLANS & ENLARGED PLANS

A151

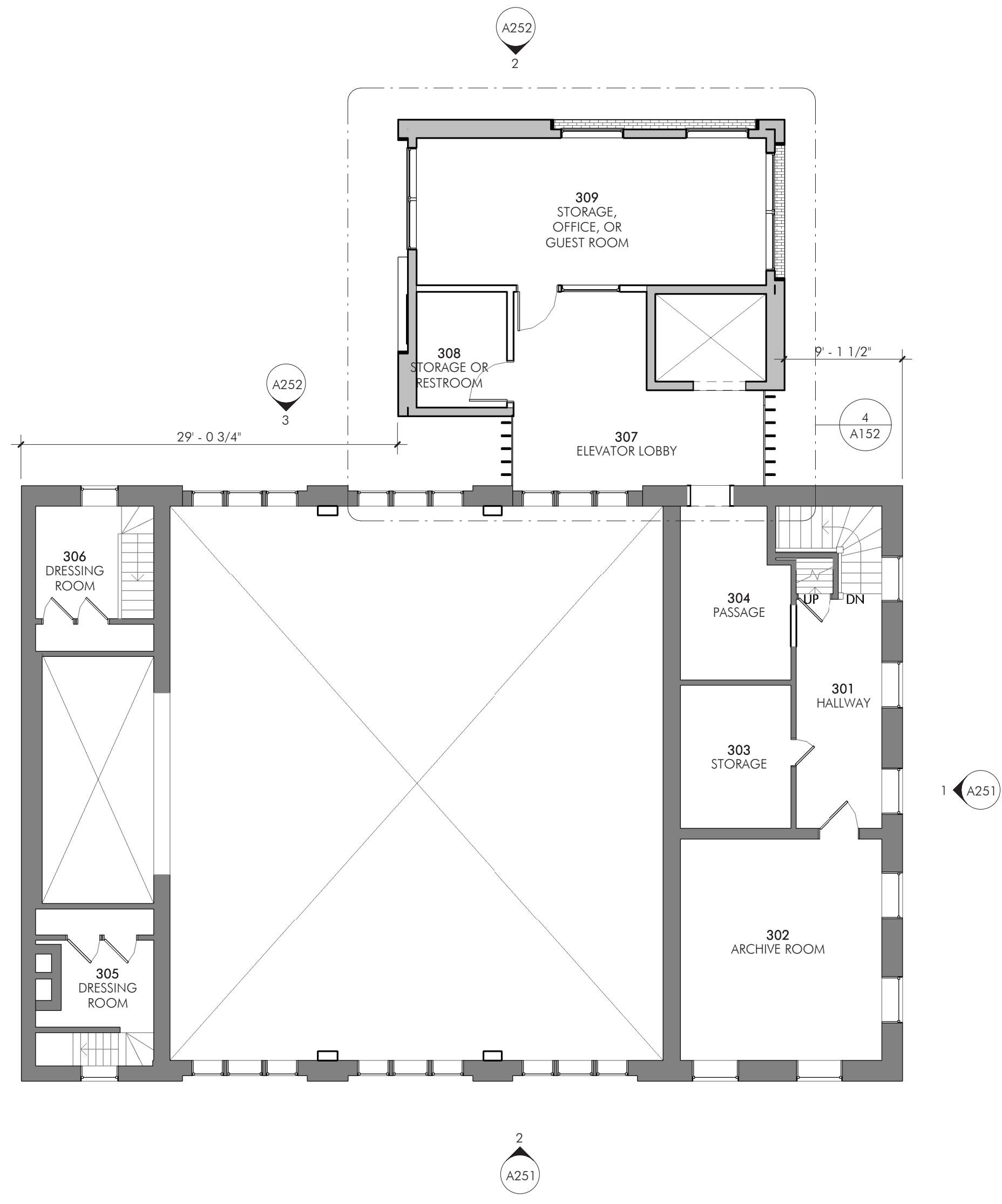
SHEET NOTES

- PLEASE REFER TO SHEET G000 FOR GENERAL NOTES AND SPECIAL REQUIREMENTS.
- FULL HEIGHT METAL STUD PARTITIONS SHALL RUN FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE AND INCLUDE FINISH MATERIAL FOR FULL HEIGHT.
- FURRING PARTITIONS SHALL RUN TO 6" ABOVE THE FINISHED CEILING AND SHALL BE BRACED BACK TO THE EXISTING WALL.
- ALL FULL HEIGHT METAL STUD PARTITIONS SHALL BE 24" O.C.
- ALL MEASUREMENTS TAKEN FROM FINISH FACE OF WALLS.

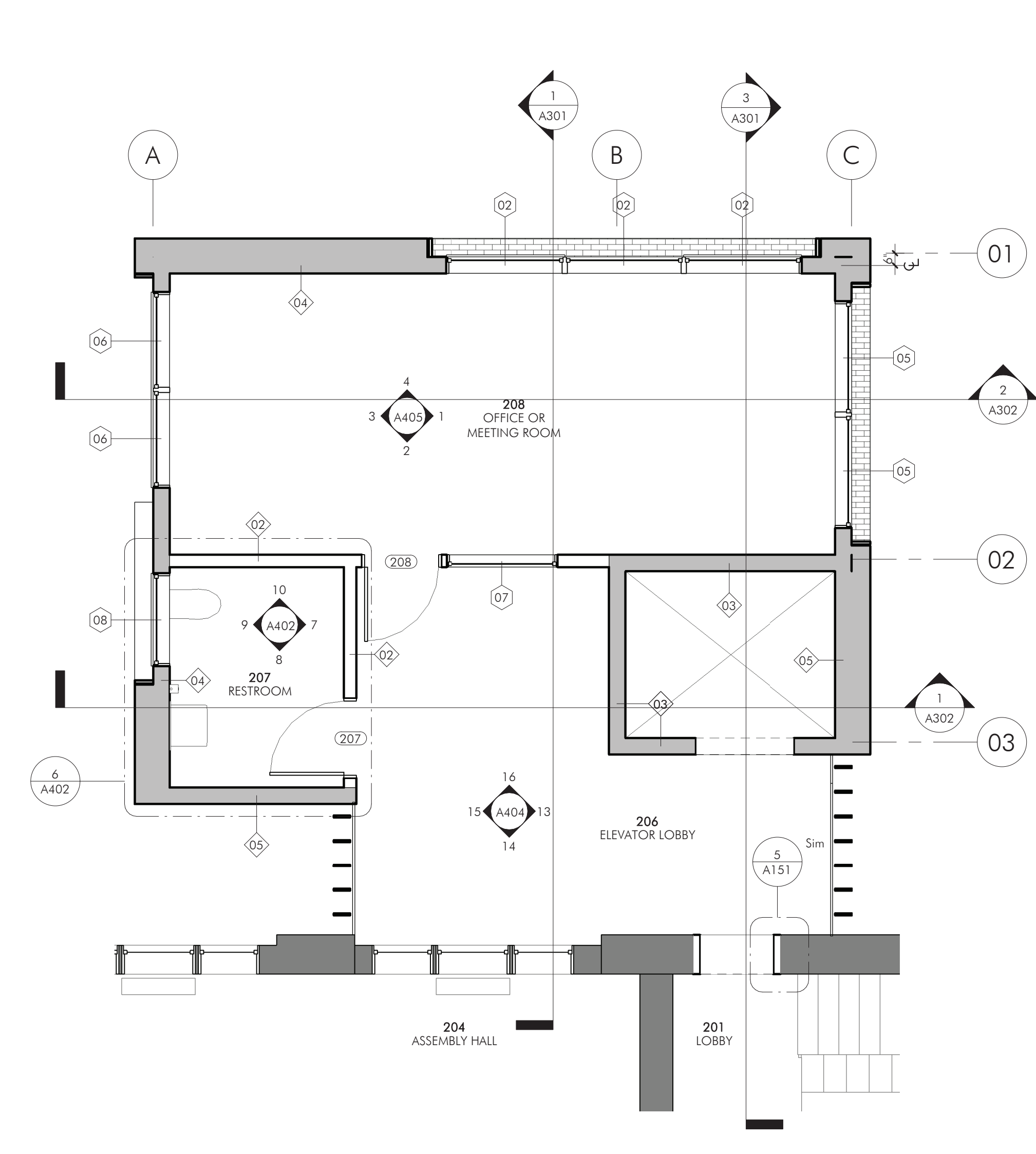
KEYNOTES



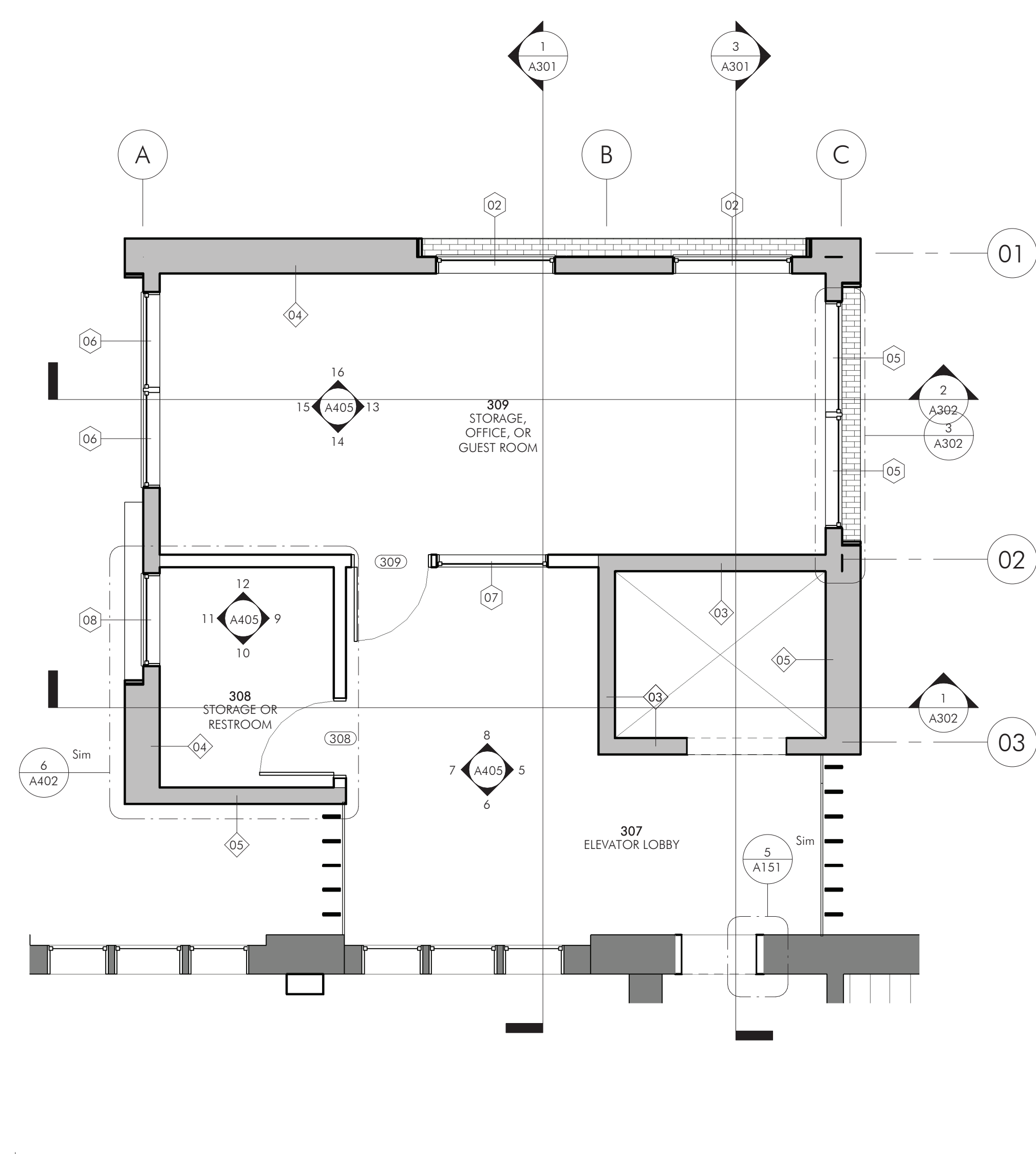
1 SECOND FLOOR CONSTRUCTION PLAN
 A152 1/8" = 1'-0"



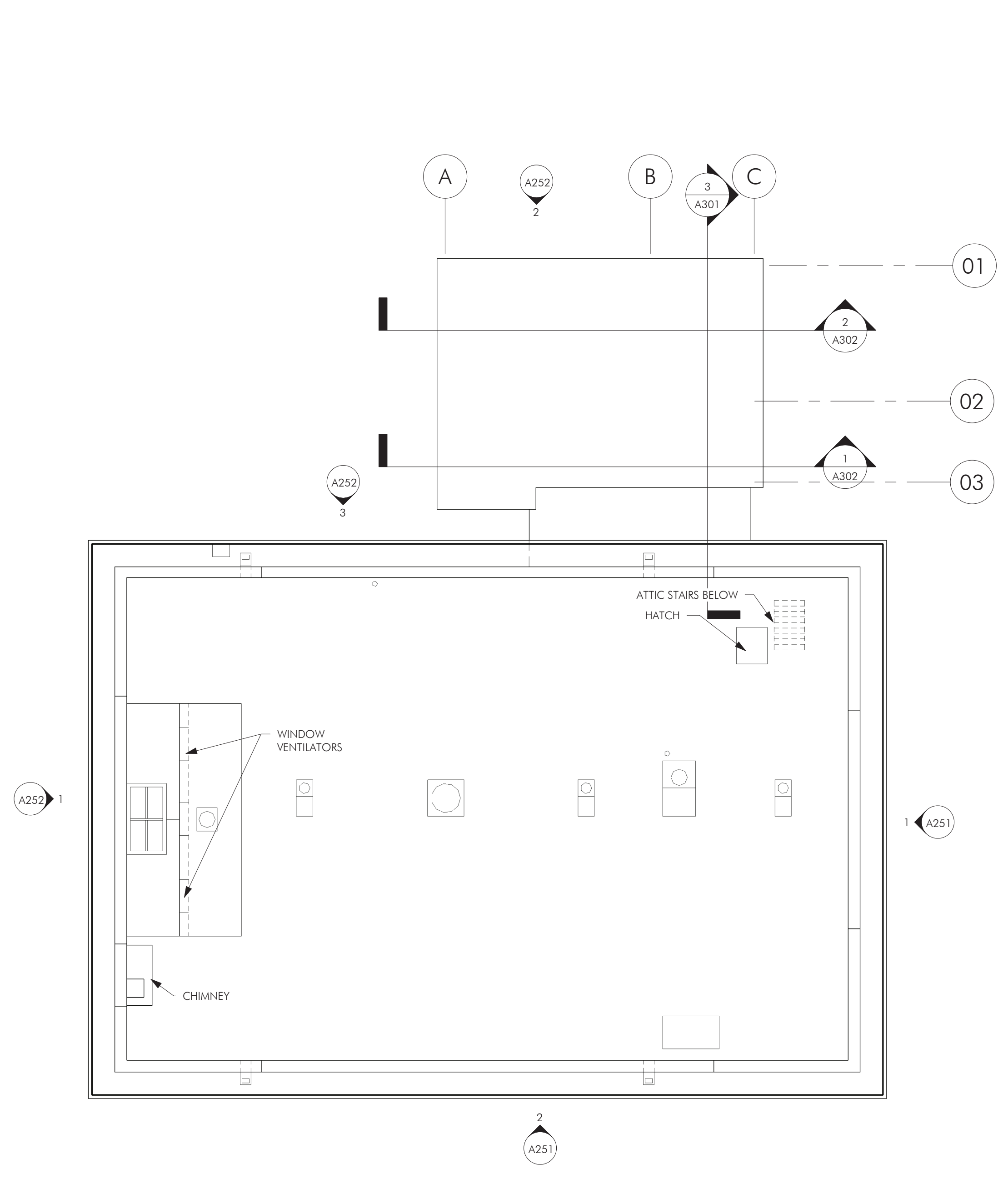
3 THIRD FLOOR CONSTRUCTION PLAN
 A152 1/8" = 1'-0"



2 ADDITION - SECOND FLOOR PLAN
 A152 1/4" = 1'-0"



4 ADDITION - THIRD FLOOR PLAN
 A152 1/4" = 1'-0"

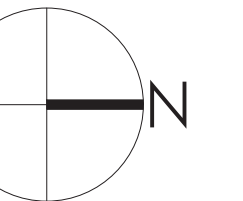


5 ROOF CONSTRUCTION PLAN
 A152 1/8" = 1'-0"

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

REVISIONS		
No.	Description	Date

60% Legacy Grant Review



CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY Author DATE 09/18/20
 REVISIONS

CONSTR PLANS & ENLARGED PLANS

A152

SHEET NOTES

- PLEASE REFER TO SHEET 0000 FOR GENERAL NOTES AND SPECIAL REQUIREMENTS.
- FULL HEIGHT METAL STUD PARTITIONS SHALL RUN FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE AND INCLUDE FINISH MATERIAL FOR FULL HEIGHT.
- FURRING PARTITIONS SHALL RUN TO 6" ABOVE THE FINISHED CEILING AND SHALL BE BRICKED BACK TO THE EXISTING WALL.
- ALL FULL HEIGHT METAL STUD PARTITIONS SHALL BE 24" O.C.
- ALL MEASUREMENTS TAKEN FROM FINISH FACE OF WALLS.

KEYNOTES

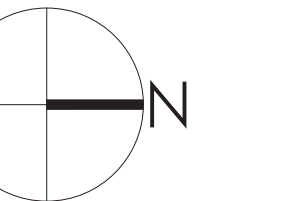
06-02	INSTALL DORIC COLUMNS AND REINSTALL SALVAGED BASES.
06-06	REPAIR WOOD ENTABLATURE, INCLUDING CORNICE, INSIDE OF FRIEZE, AND ARCHITRAVE, WITH CONSOLIDANT PAINT.
26-01	INSTALL LIGHT FIXTURE. SEE SCHEDULE.
26-02	

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

10/22/20

REVISIONS		
No.	Description	Date

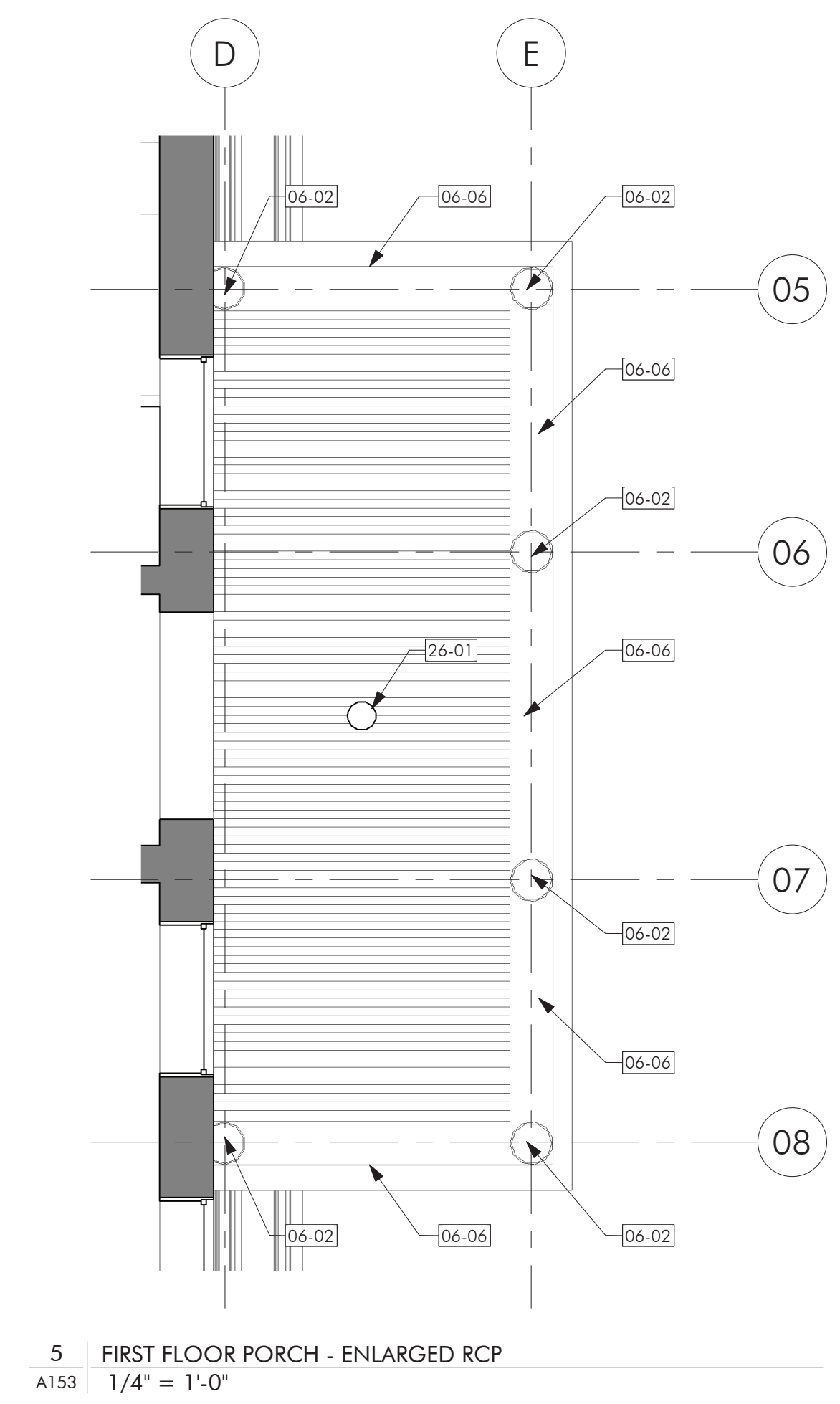
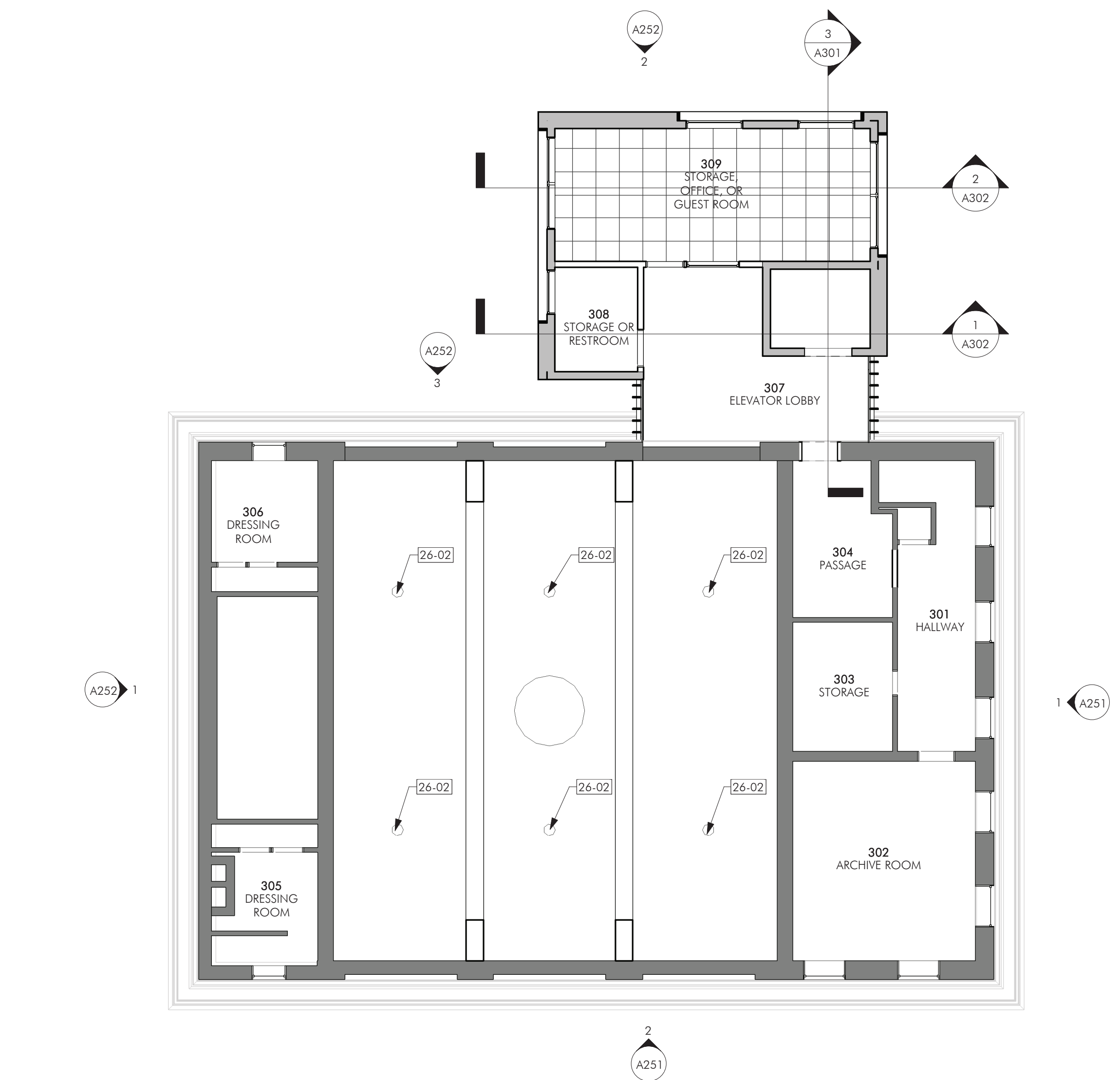
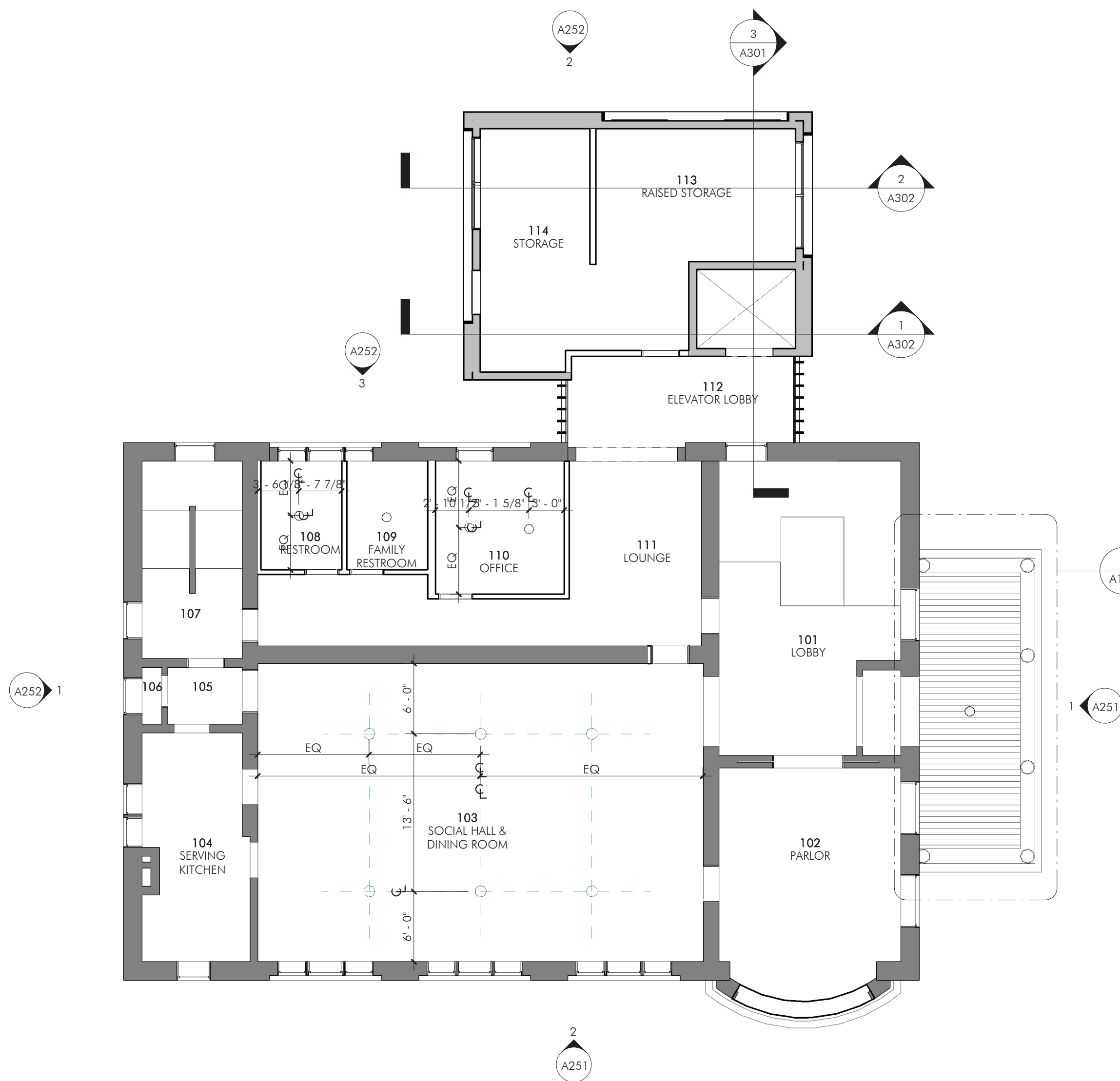
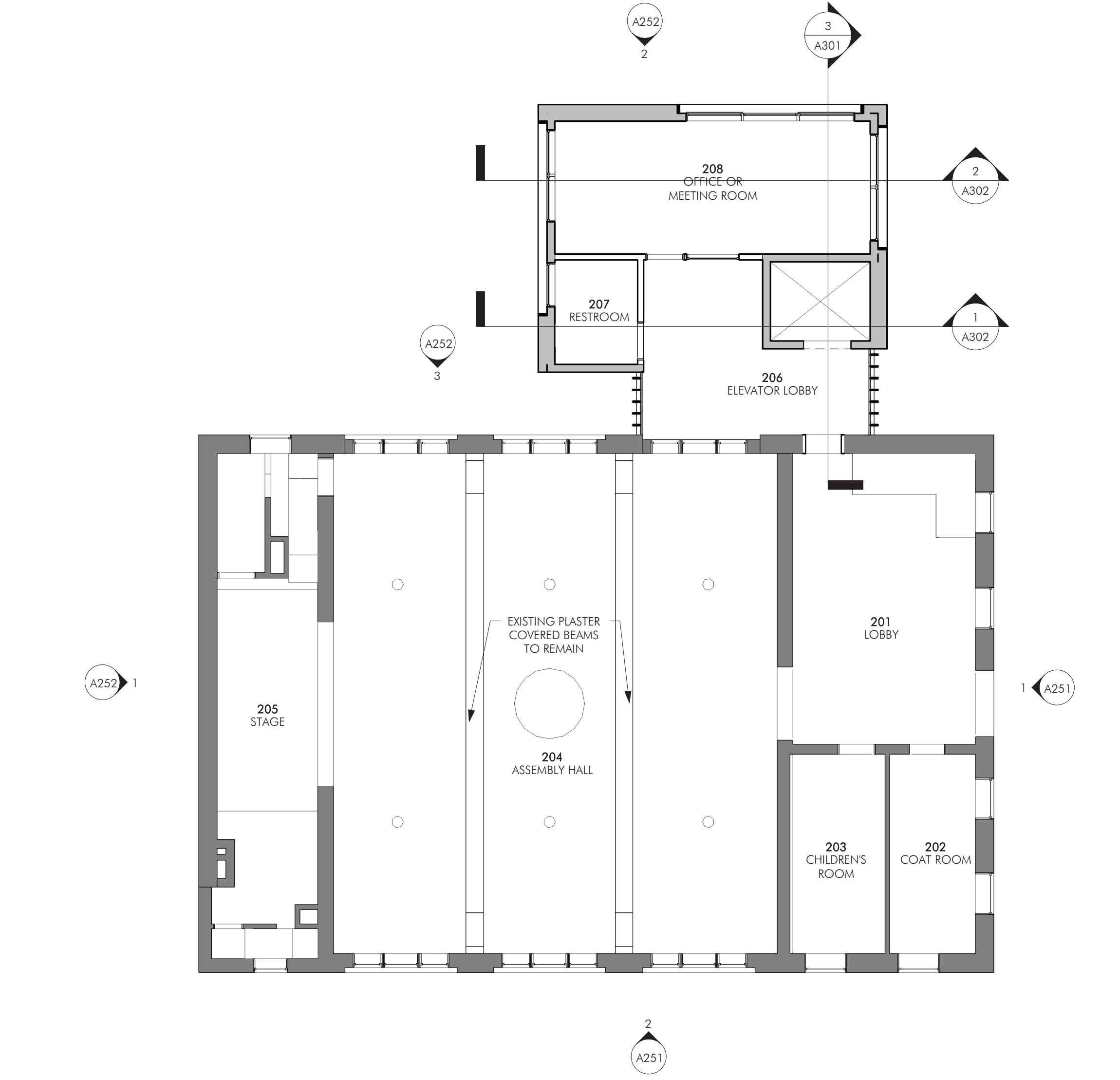
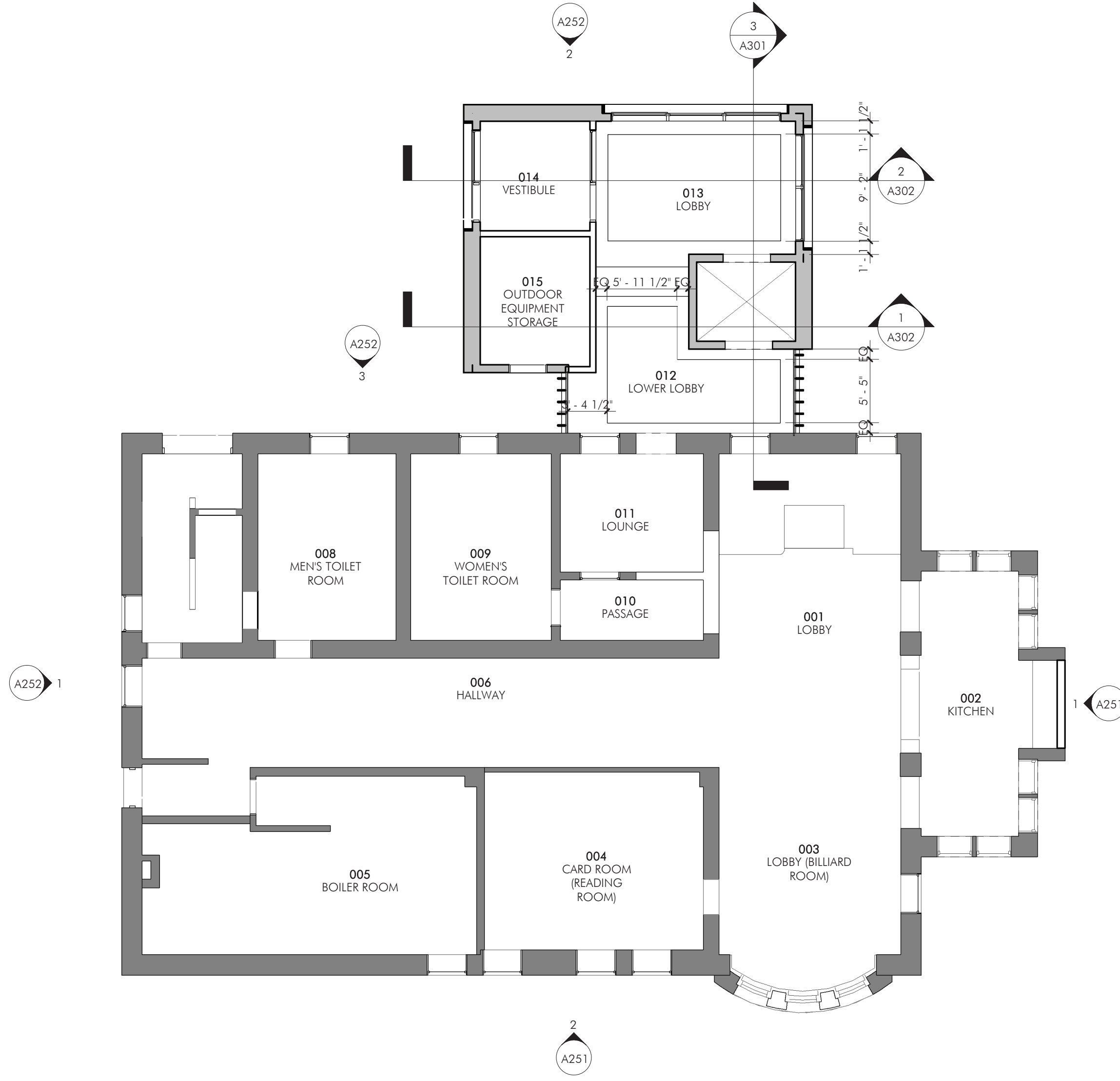
60% Legacy Grant Review



CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY: Author
 DATE: 10/22/20

CONSTRUCTION REFLECTED CEILING PLANS

A153



LEGEND



KEYNOTES

02-01	REMOVE AND SALVAGE LIGHT POSTS.
02-02	REMOVE PORCH RAILINGS AND STAIR HANDRAILS.
02-03	REMOVE AND SALVAGE STONE STEPS.
02-06	DISMANTLE PIERS, INCLUDING CONCRETE BASES. SALVAGE BRICK.
02-07	DISMANTLE STAIR WALLS. SALVAGE BRICK AND DISPOSE OF CAST STONE CAPS. CONCRETE FOUNDATION AND BASE TO REMAIN.
02-09	DEMOLISH WALL AND NOTIFY ARCHITECT. ARCHITECT TO INSPECT AREA BENEATH STAIRS BEFORE INFILLED.
02-10	INSTALL TEMPORARY SHORING AT PORCH ROOF AND DEMOLISH COLUMNS. SALVAGE CAST STONE BASES FOR REINSTALLATION.
02-11	REMOVE CAST STONE AT PORCH EDGE. REMOVE AND SALVAGE STONE BENEATH FOR REINSTALLATION.

1 DEMO NORTH BUILDING ELEVATION
 A201 | 1/4" = 1'-0"

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

 Todd Crowe #A2014 10/09/2018



REVISIONS		
No.	Description	Date

60% Legacy Grant Review



2 DEMO SOUTH BUILDING ELEVATION
 A201 | 1/4" = 1'-0"

LEGEND

	REMOVE/DISMANTLE
	DEMOLISH MASONRY, SALVAGE AS NOTED

CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY Author
 DATE 10/16/20

REVISIONS

DEMOLITION
 NORTH & SOUTH
 BUILDING ELEV

A201



1 | DEMOLITION EAST BUILDING ELEVATION
 A202 | 1/4" = 1'-0"

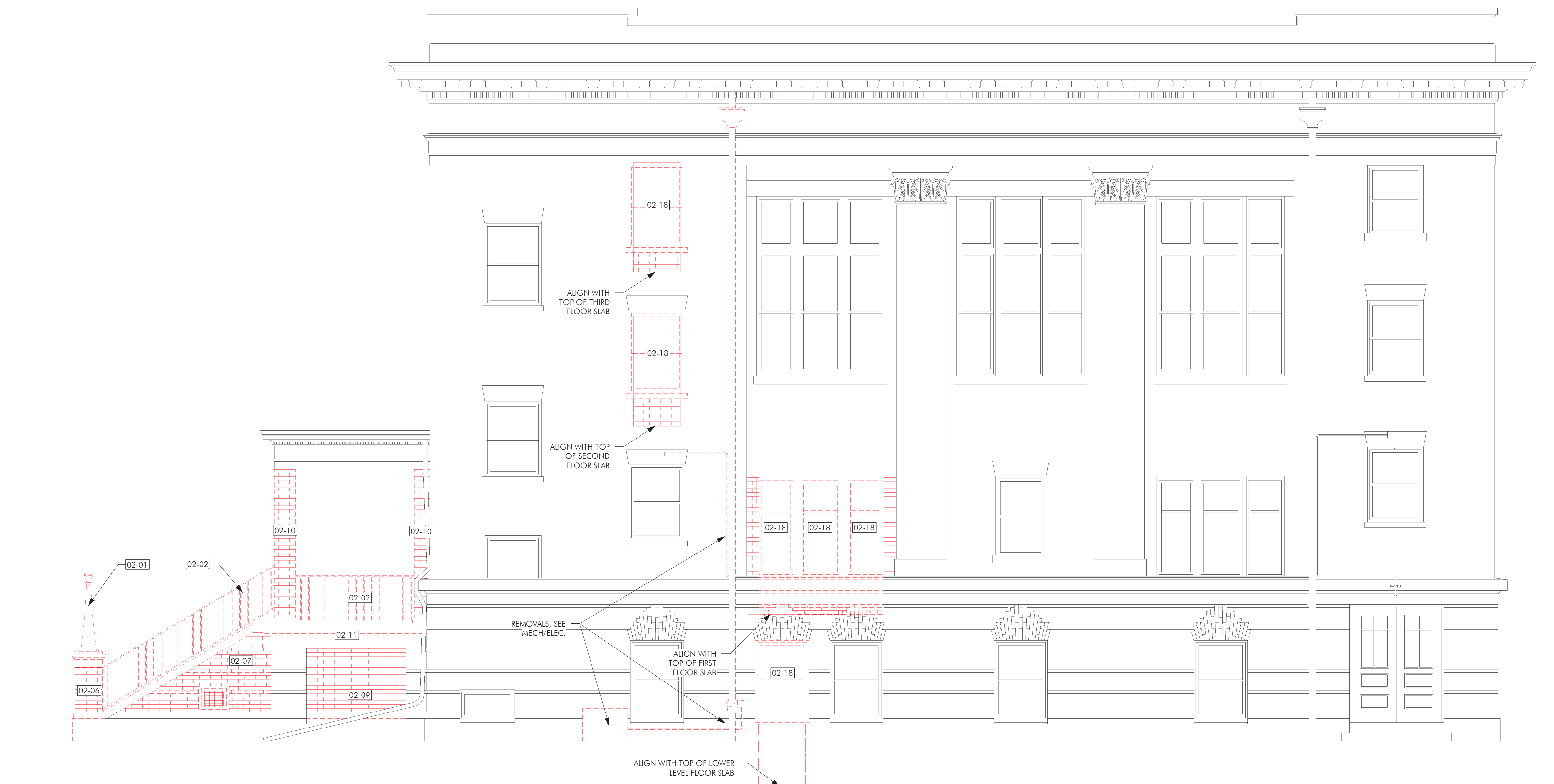
KEYNOTES

02-01	REMOVE AND SALVAGE LIGHT POSTS.
02-02	REMOVE PORCH RAILINGS AND STAIR HANDRAILS.
02-04	DISMANTLE PIERS, INCLUDING CONCRETE BASES.
02-07	DISMANTLE STAIR WALLS. SALVAGE BRICK AND DISPOSE OF CAST STONE CURBS, CONCRETE FOUNDATION AND BASE TO REMAIN.
02-09	DEMOLISH WALL AND NOTIFY ARCHITECT. ARCHITECT TO INSPECT AREA BENEATH STAIRS BEFORE INFILLED.
02-10	INSTALL TEMPORARY SHORING AT PORCH ROOF AND DEMOLISH COLUMNS. SALVAGE CAST STONE BASES FOR REINSTALLATION.
02-11	REMOVE CAST STONE AT PORCH EDGE. REMOVE AND SALVAGE STONE BENEATH FOR REINSTALLATION.
02-18	DISMANTLE WINDOW AND FRAME. SELECTIVELY REMOVE PORTION OF EXTERIOR BRICK WALL. SEE DEMOLITION DETAILS. DISMANTLE CAST STONE SILL.

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

REVISIONS	
No.	Description

60% Legacy Grant Review



2 | DEMOLITION WEST BUILDING ELEVATION
 A202 | 1/4" = 1'-0"

LEGEND

	REMOVE/DISMANTLE
	DEMOLISH MASONRY, SALVAGE AS NOTED

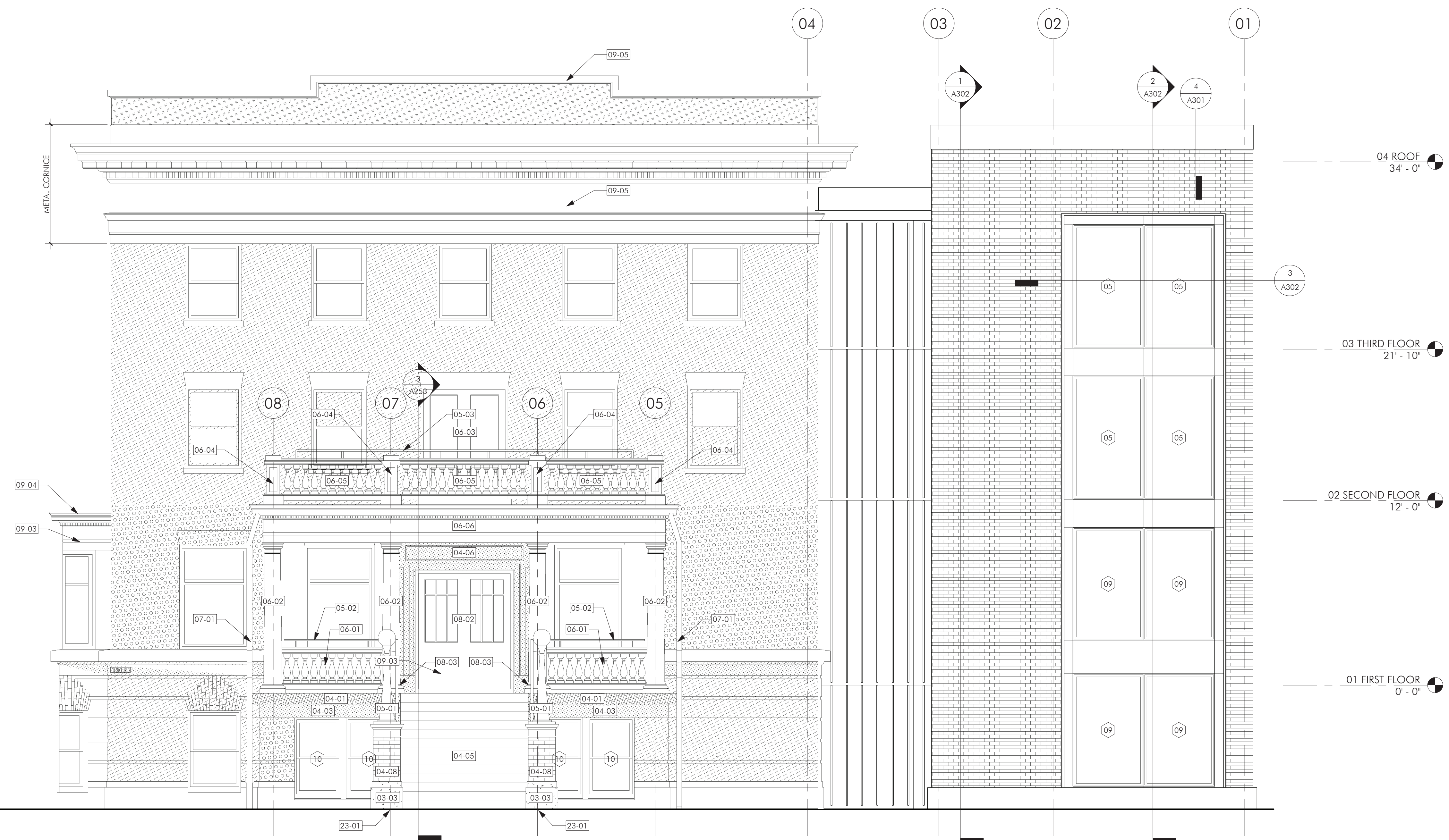
CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY Author DATE 10/16/20

REVISIONS

DEMOLITION EAST & WEST BUILDING ELEVATION

A202

SHEET NOTES
 1. ASSUME 10% REPOINTING OF ENTIRE BRICK FACADE UNLESS OTHER WORK IS NOTED.
 2. REFER TO LEGEND FOR AREA SPECIFIC MASONRY WORK.



1 NORTH CONSTRUCTION BUILDING
 ELEVATION
 A251 1/4" = 1'-0"

KEYNOTES

03-03	POUR CONCRETE FOOTINGS AND PIER BASE.
04-01	RESET STONE AT PORCH EDGE AND INSTALL REPLACEMENT CAST STONE TO MATCH ORIGINAL.
04-02	REBUILD STAIR WALLS USING SALVAGED BRICK WHERE NECESSARY. INSTALL REPLACEMENT CAST STONE CAPS TO MATCH ORIGINAL.
04-03	REPLACE CAST STONE AT STAIRS AND TOP BAND AT PORCH. PAINT (DO NOT PAINT STEPS).
04-05	REINSTALL STEPS.
04-06	CLEAN CAST STONE AROUND DOOR AND THRESHOLD.
04-07	REPAIR CRACK/HOLE IN CONCRETE/MASONRY.
04-08	REBUILD PIER AND STONE CAP.
05-01	RESTORE AND REINSTALL LAMPS. PAINT METAL AND PROVIDE NEW GLOBES.
05-02	INSTALL GUARDRAIL AT PORCH AND HANDRAIL AT STEPS.
05-03	INSTALL BALCONY GUARDRAIL.
06-01	INSTALL WOOD BALUSTRADE AT PORCH AND STEPS.
06-02	INSTALL DORIC COLUMNS AND REINSTALL SALVAGED BASES.
06-03	REPAIR WOOD DOOR TRIM. PAINT. SEE DOOR SCHEDULE FOR DOOR REPAIRS.
06-04	INSTALL BALCONY BALUSTRADE.
06-05	INSTALL BALCONY BALUSTRADE.
06-06	REPAIR WOOD ENTABLATURE, INCLUDING CORNICE, INSIDE OF FRIeze, AND ARCHITRAVE, WITH CONSOLIDANT. PAINT.
07-01	REPAIR AND EXTEND DOWNSPOUTS TO PROVIDE DRAINAGE AWAY FROM THE BUILDING. PAINT EXISTING PIECES AS REUSED.
08-02	REPAIR DOORS AND PAINT, INCLUDING WOOD TRIM. REPLACE HARDWARE. SEE DOOR SCHEDULE.
08-03	INSTALL PERMANENT DOOR STOP. SEE DOOR SCHEDULE.
09-03	SCRAPE AND REPAINT WOOD TRIM AND CORNICE OF BOW WINDOW EXTERIOR.
09-04	PAINT EXISTING FLASHINGS.
09-05	PAINT METAL CORNICE AND PARAPET CAP.
23-01	REGRADE DISTURBED AREA AROUND BOTTOM OF STAIRS AND PIERS. REPLACE SOG.

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a Licensed Architect under the laws of the State of Minnesota.
 Todd Crowe #A2014 10/09/2018

REVISIONS		
No.	Description	Date



2 EAST CONSTRUCTION BUILDING
 ELEVATION
 A251 1/4" = 1'-0"

LEGEND

[Pattern]	BRICK MASONRY
[Pattern]	RECONSTRUCT BRICK MASONRY
[Pattern]	BRICK MASONRY TO REMAIN (10% REPOINTING, TYPICAL)
[Pattern]	25% REPOINT
[Pattern]	50% REPOINT
[Pattern]	100% REPOINT
[Pattern]	CLEAN BRICK MASONRY
[Pattern]	CLEAN STONE/CAST STONE, REPOINT/SEAL JOINTS
[Pattern]	REPAIR CHIPPED CAST STONE
[Pattern]	REPOINT/SEAL JOINTS AT CAST STONE
[Pattern]	CONCRETE
[Pattern]	REPLACE HISTORIC CAST STONE
[Pattern]	REPAIR CRACK/HOLE IN CONCRETE/MASONRY

60% Legacy Grant Review

CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY Author DATE 10/12/20
 REVISIONS

CONSTRUCTION BUILDING ELEVATIONS

1. ASSUME 10% REPOINTING OF ENTIRE BRICK FACADE UNLESS OTHER WORK IS NOTED.
2. REFER TO LEGEND FOR AREA SPECIFIC MASONRY WORK.

KEYNOTES

04-01	RESET STONE AT PORCH EDGE AND INSTALL REPLACEMENT CAST STONE TO MATCH ORIGINAL
04-02	REBUILD STAIR WALLS USING SALVAGED BRICK WHERE NECESSARY. INSTALL REPLACEMENT CAST STONE CAPS TO MATCH ORIGINAL.
04-03	REPLACE CAST STONE AT STAIRS AND TOP BAND AT PORCH. PAINT (DO NOT PAINT STEPS).
04-05	REINSTALL STEPS.
05-01	RESTORE AND REINSTALL LAMPS. PAINT METAL AND PROVIDE NEW GLOBES.
05-02	INSTALL GUARDRAIL AT PORCH AND HANDRAIL AT STEPS.
05-03	INSTALL BALCONY GUARDRAIL.
06-01	INSTALL WOOD BALUSTRADE AT PORCH AND STEPS.
06-02	INSTALL DORIC COLUMNS AND REINSTALL SALVAGED BASES.
06-04	INSTALL BALCONY RAILING POST.
06-05	INSTALL BALCONY BALUSTRADE.
06-06	REPAIR WOOD ENTABLATURE, INCLUDING CORNICE, INSIDE OF FRIEZE, AND ARCHITRAVE, WITH CONSOLIDANT. PAINT.
06-07	REPAIR AND PAINT SALVAGED WOOD FRAME AND INSTALL NEW PAINTED PLYWOOD PANEL IN PLACE OF MESH. REINSTALL.
06-08	REPAIR LOWER PORTION OF CORNICE. REPAINT.
07-01	REPAIR AND EXTEND DOWNSPOUTS TO PROVIDE DRAINAGE AWAY FROM THE BUILDING. PAINT EXISTING PIECES AS REUSED.
08-04	REPAINT WOOD EXTERIOR OF WINDOW DOOR.
09-03	SCRAPE AND REPAINT WOOD TRIM AND CORNICE OF BOW WINDOW EXTERIOR.
09-04	PAINT EXISTING FLASHINGS.
09-05	PAINT METAL CORNICE AND PARAPET CAP.
23-01	REGRADE DISTURBED AREA AROUND BOTTOM OF STAIRS AND PIERS. REPLACE SOD.

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

[Signature]
 Todd Crowe #A2514 10/09/2018

REVISIONS		
No.	Description	Date

60% Legacy Grant Review

LEGEND

	BRICK MASONRY
	RECONSTRUCT BRICK MASONRY
	BRICK MASONRY TO REMAIN (10% REPOINTING, TYPICAL)
	25% REPOINT
	50% REPOINT
	100% REPOINT
	CLEAN BRICK MASONRY
	CLEAN STONE/CAST STONE, REPOINT/SEAL JOINTS
	REPAIR CHIPPED CAST STONE
	REPOINT/SEAL JOINTS AT CAST STONE
	CONCRETE
	REPLACE HISTORIC CAST STONE
	REPAIR CRACK/HOLE IN CONCRETE/MASONRY

CONSTRUCTION BUILDING ELEVATIONS

CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY Author DATE 10/13/20

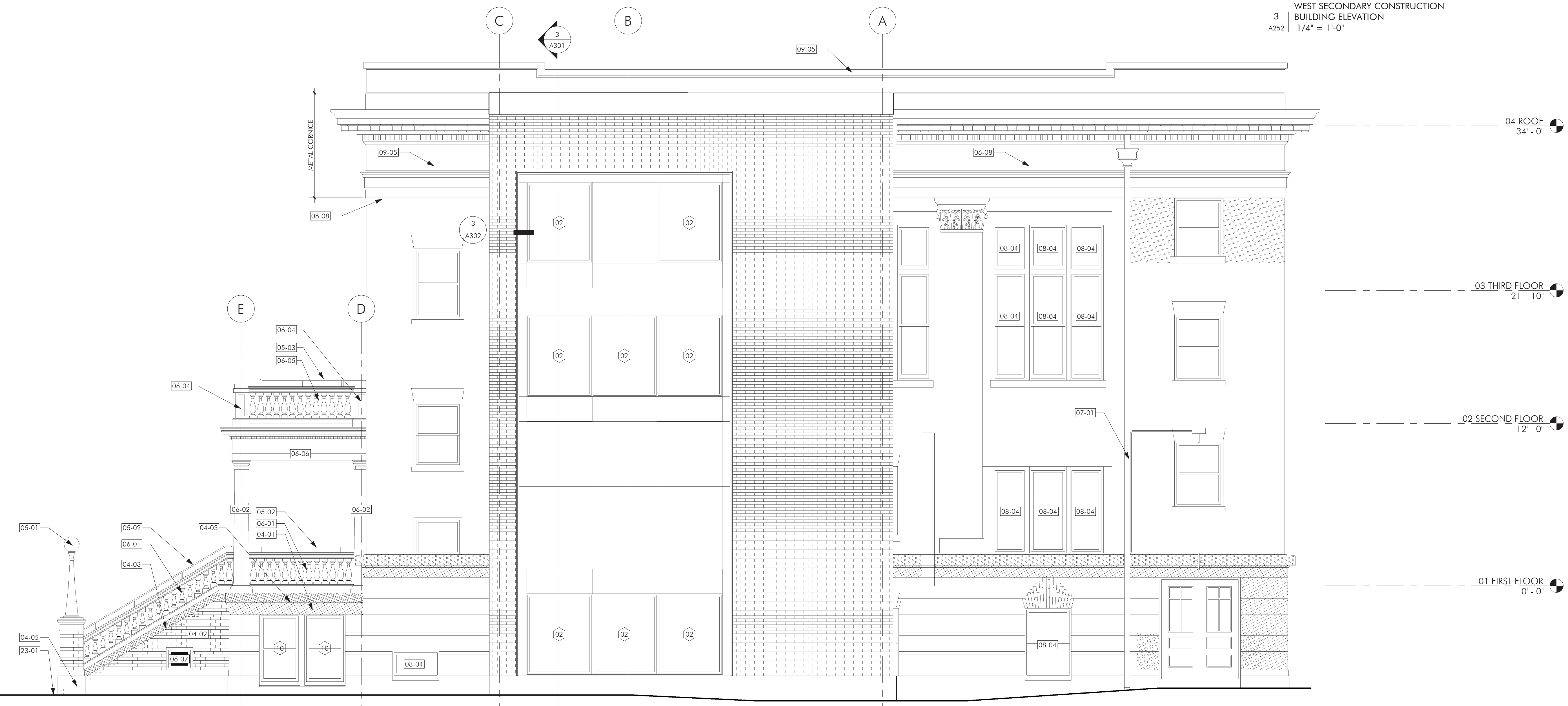
CONSTRUCTION BUILDING ELEVATIONS

A252



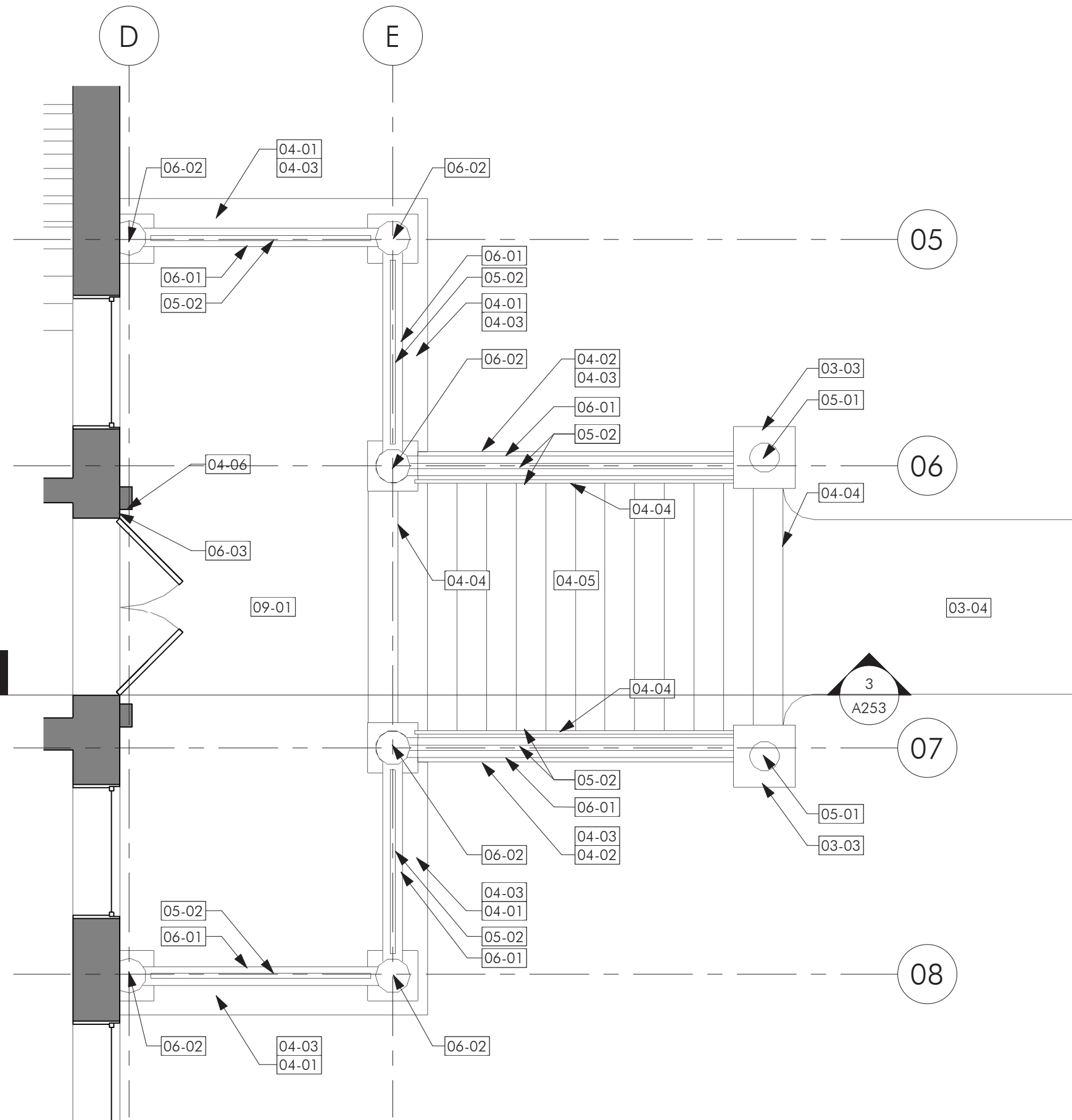
1 SOUTH CONSTRUCTION BUILDING ELEVATION
 A252 1/4" = 1'-0"

3 WEST SECONDARY CONSTRUCTION BUILDING ELEVATION
 A252 1/4" = 1'-0"

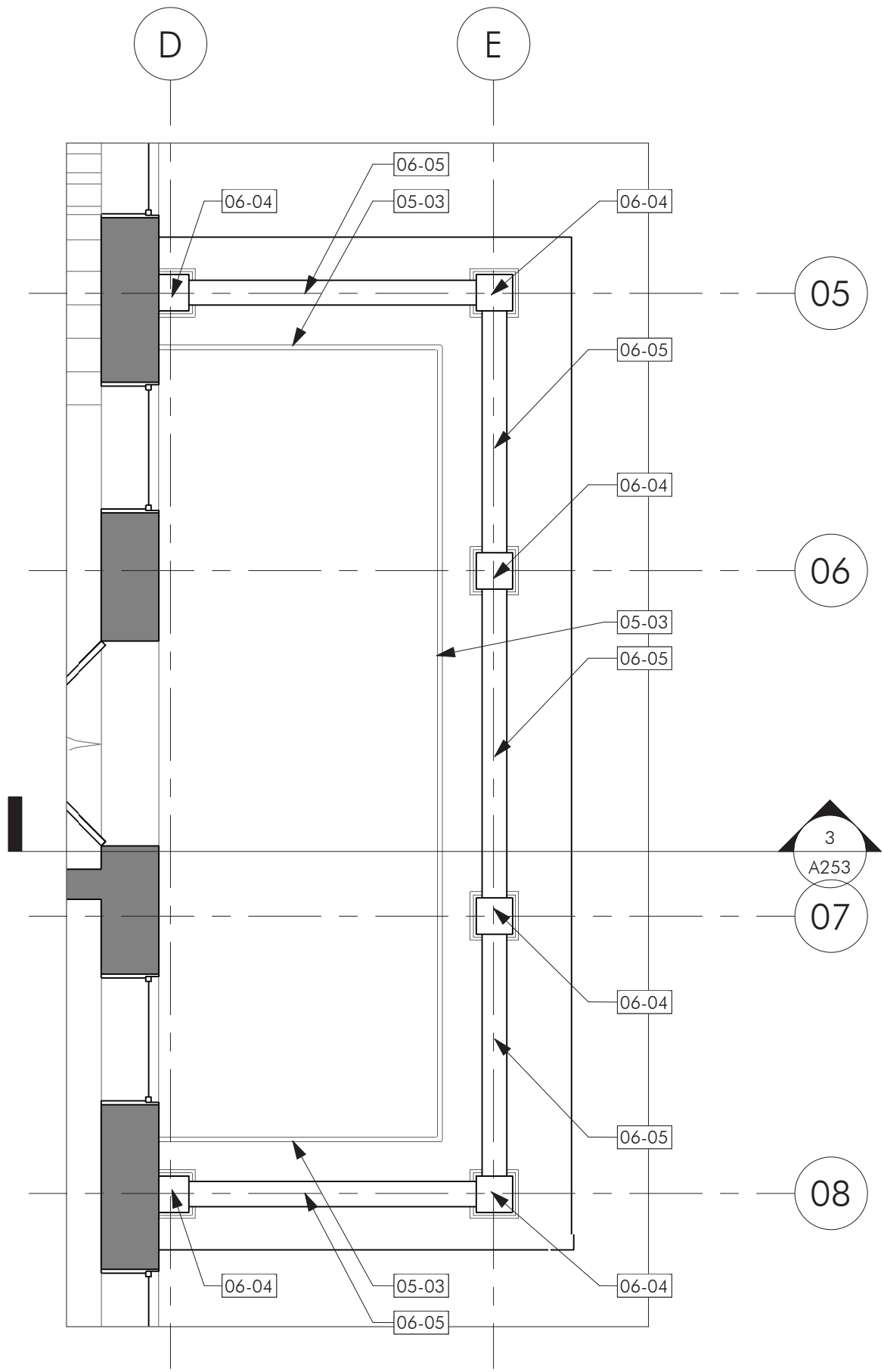


2 WEST CONSTRUCTION BUILDING ELEVATION
 A252 1/4" = 1'-0"

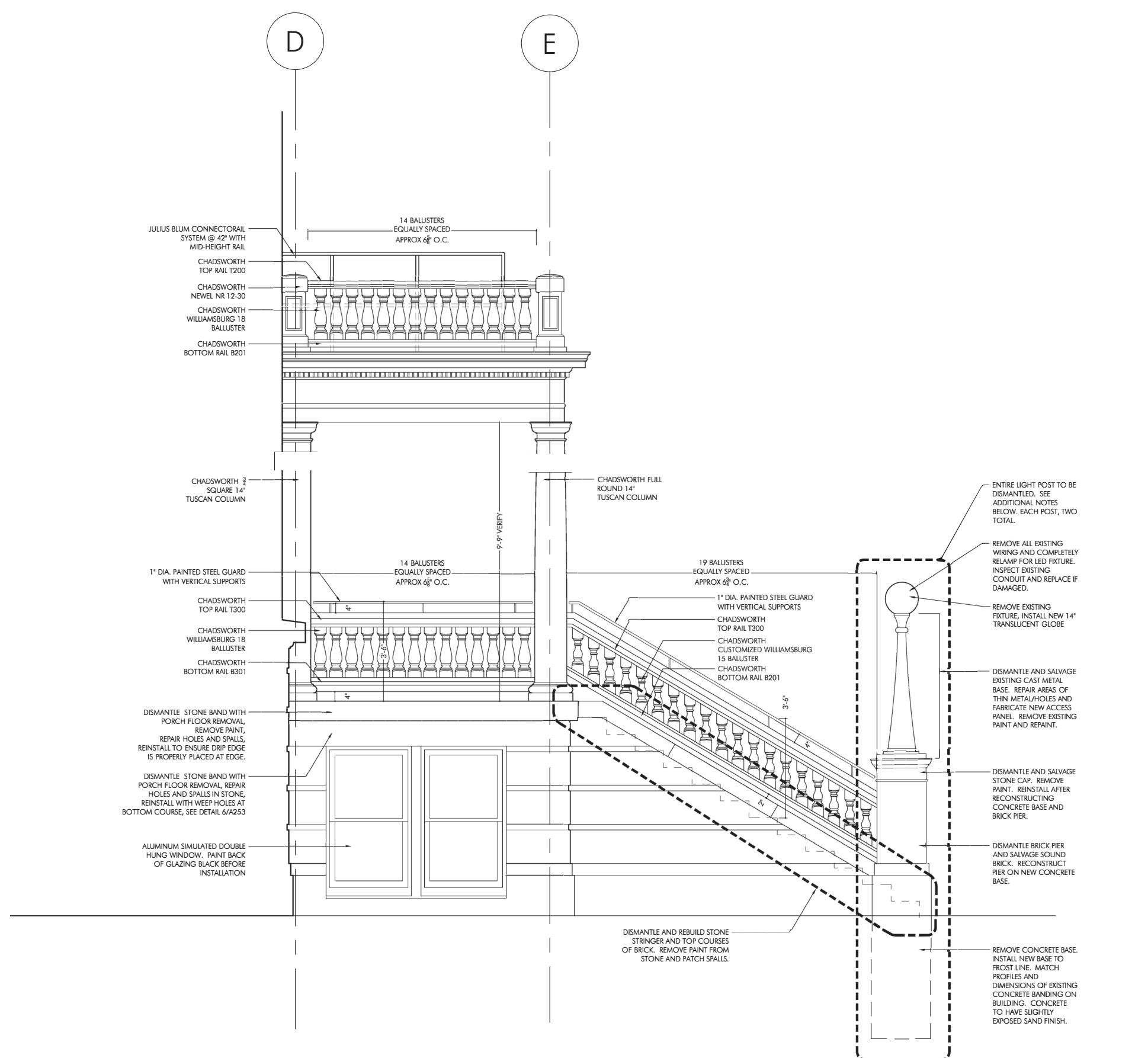
1. ASSUME 10% REPOINTING OF ENTIRE BRICK FACADE UNLESS OTHER WORK IS NOTED.
2. REFER TO LEGEND FOR AREA SPECIFIC MASONRY WORK.



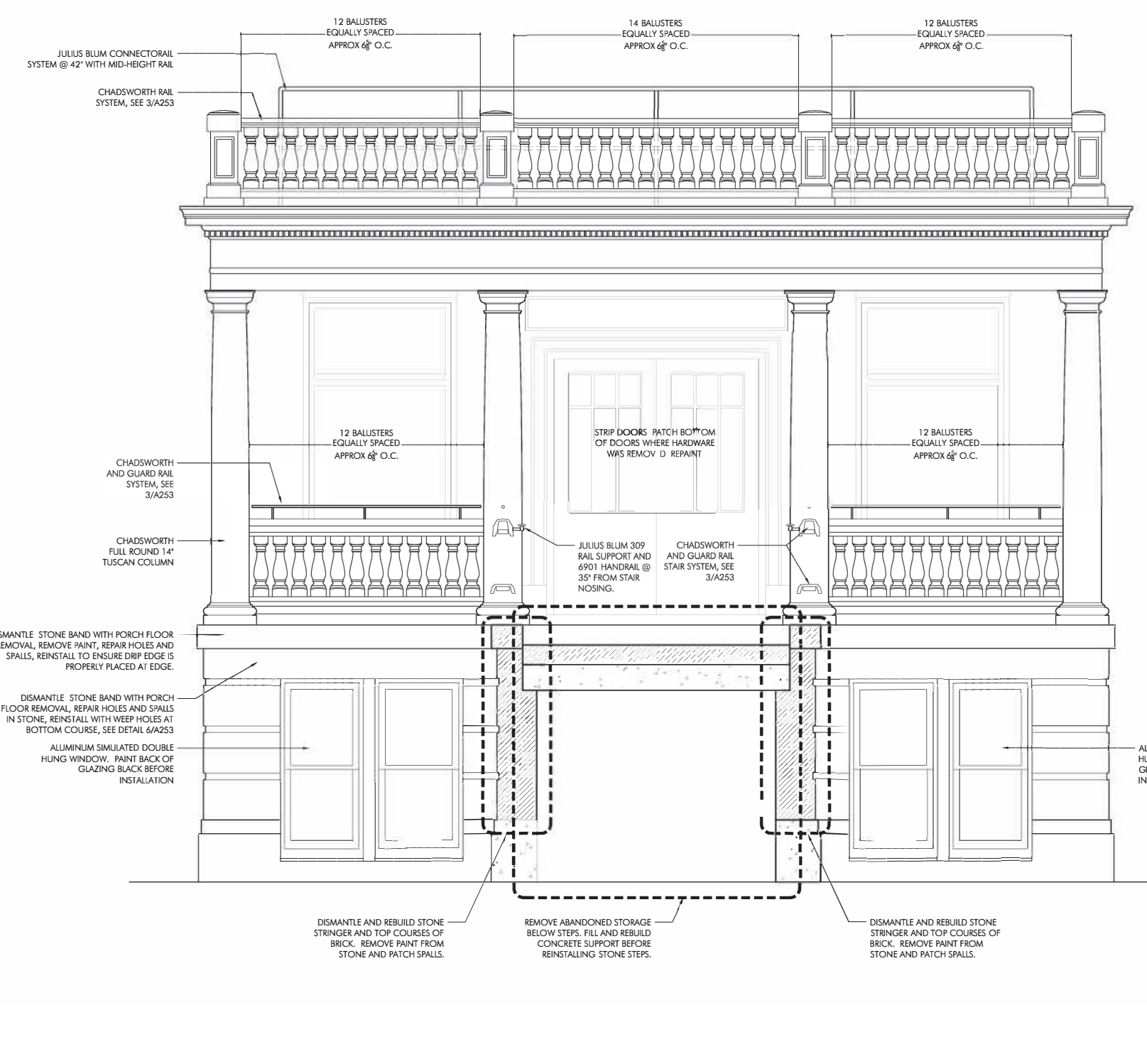
1 FIRST FLOOR PORCH - ENLARGED PLAN
 A253 1/4" = 1'-0"



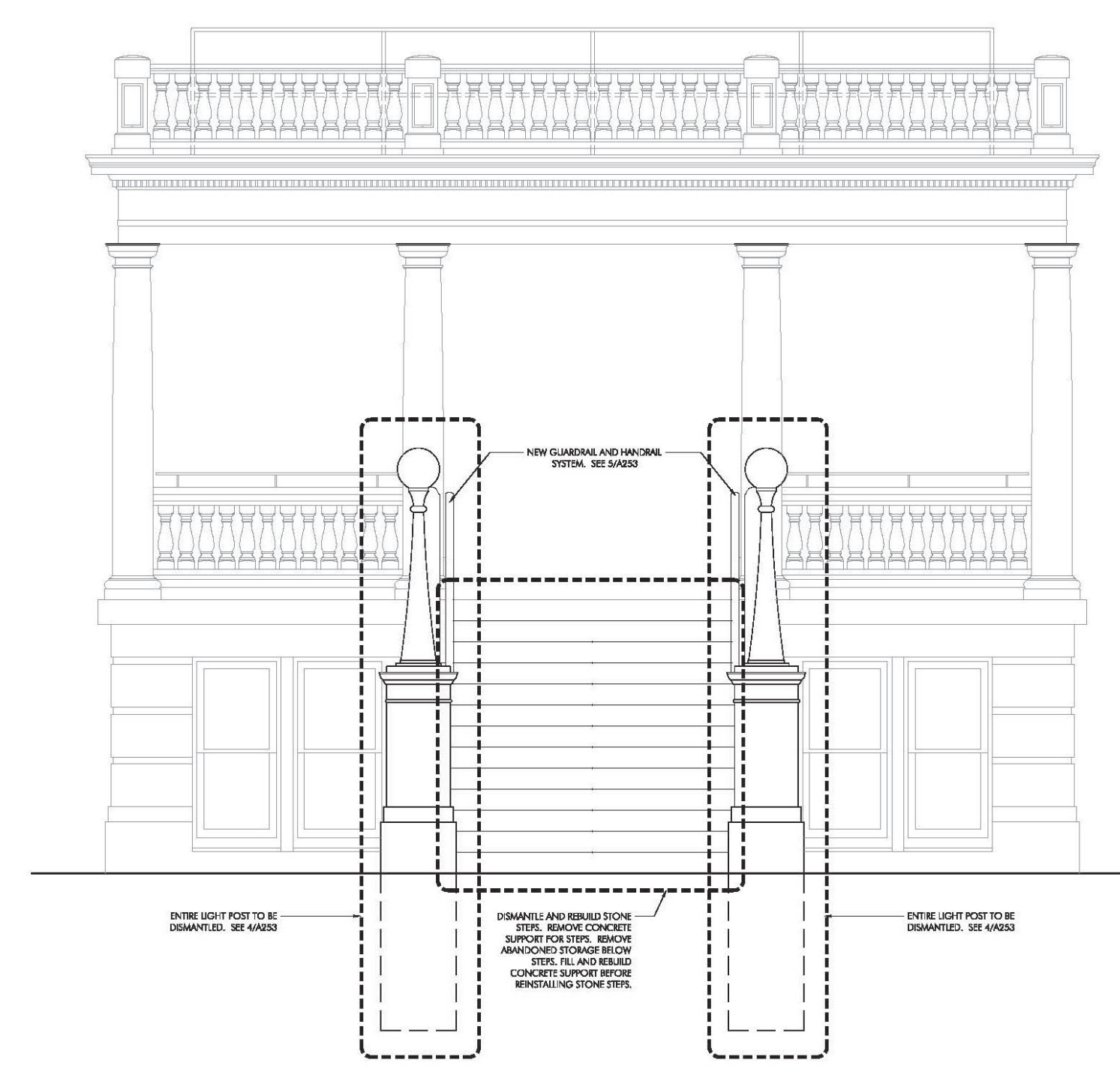
2 SECOND FLOOR BALCONY - ENLARGED PLAN
 A253 1/4" = 1'-0"



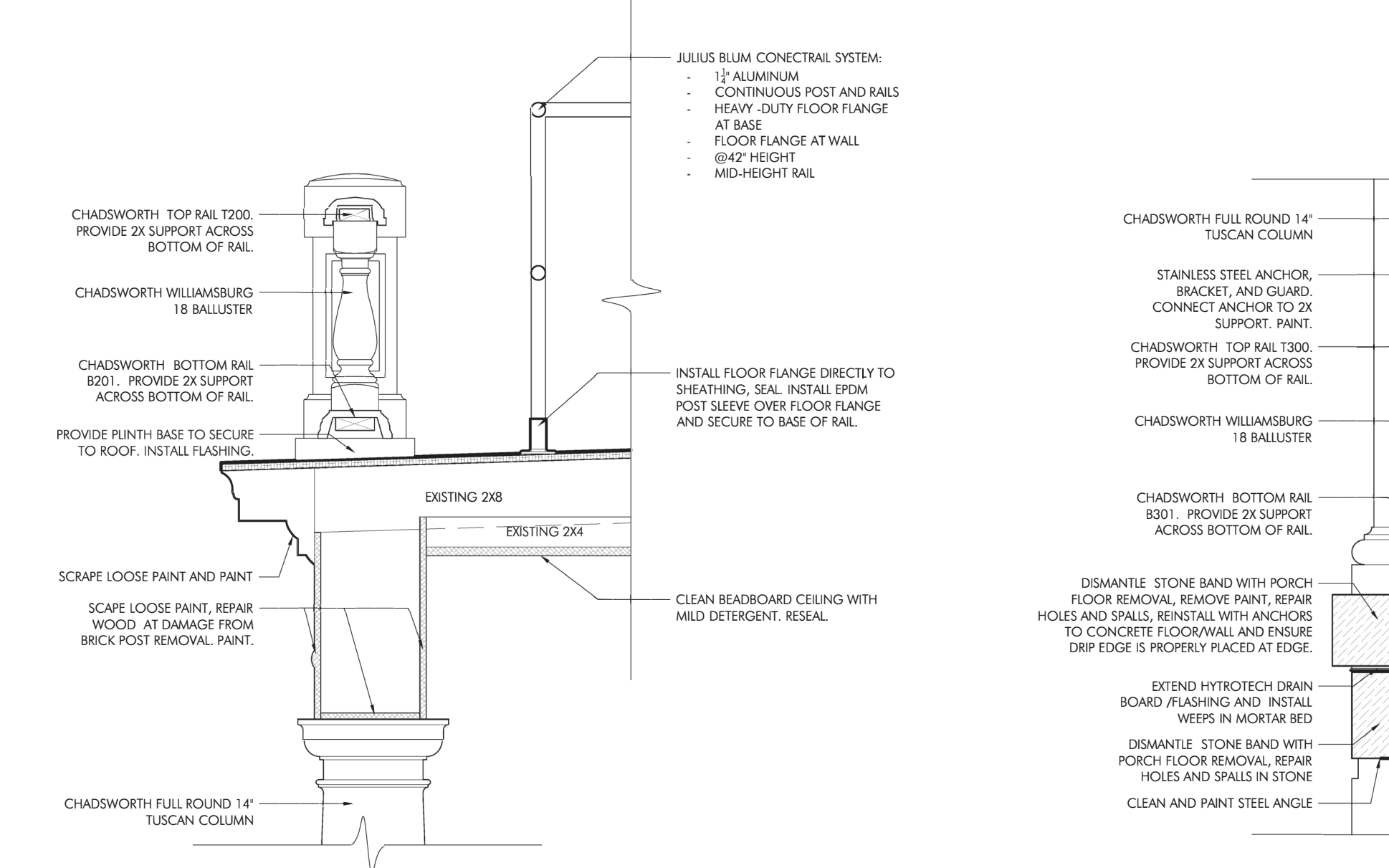
3 PORCH - SECTION - NORTH/SOUTH
 A253 1/4" = 1'-0"



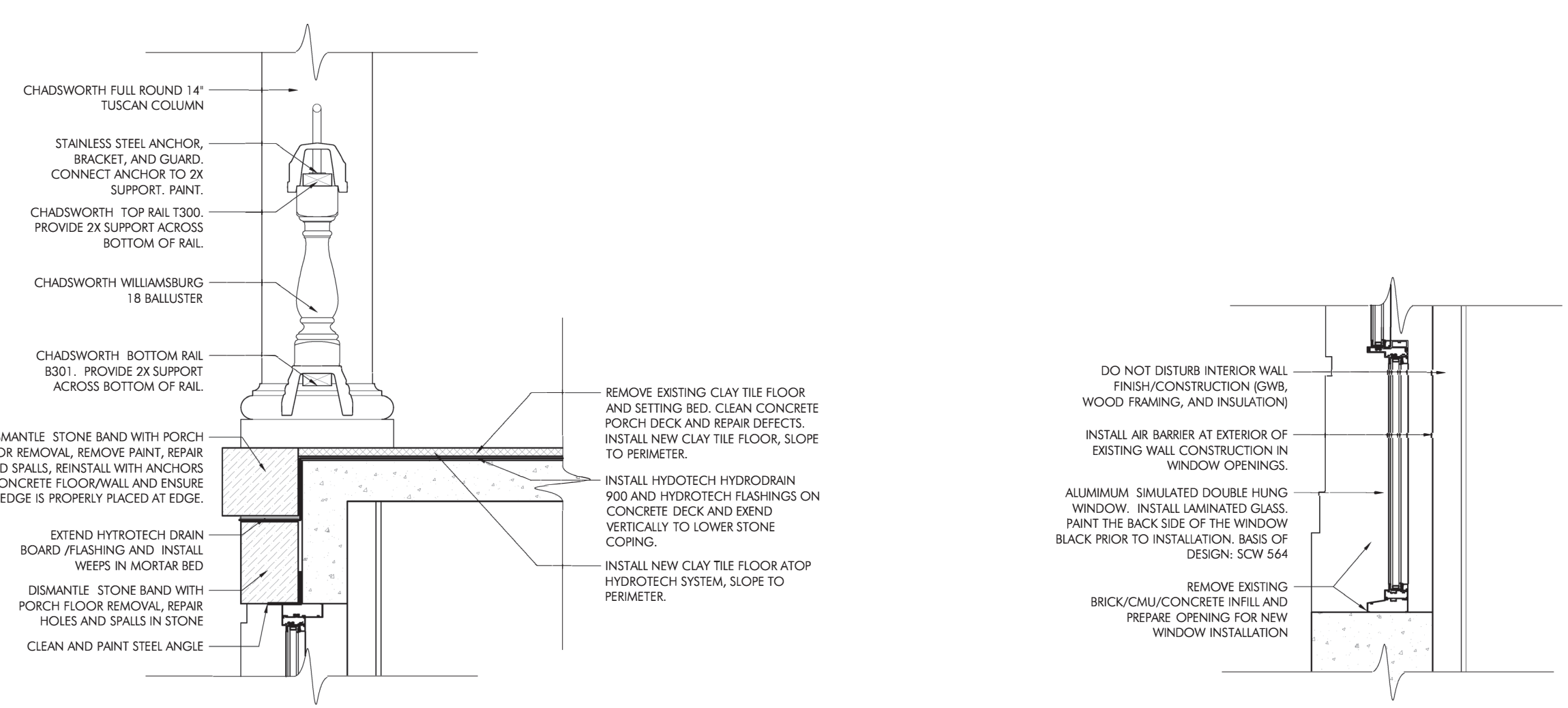
4 PORCH - SECTION - EAST/WEST
 A253 1/4" = 1'-0"



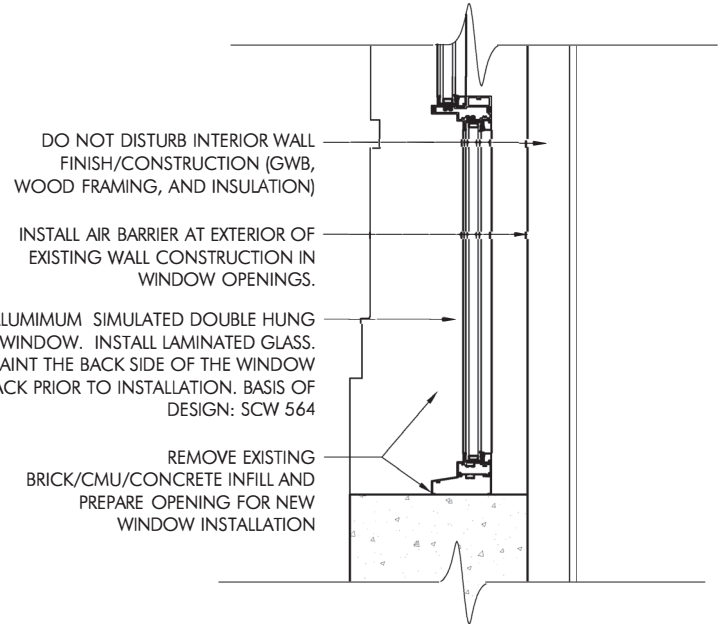
5 PORCH - ELEVATION
 A253 1/4" = 1'-0"



7 SECTION AT EAVE
 A253 1" = 1'-0"



8 SECTION AT HANDRAIL
 A253 1" = 1'-0"



6 SECTION AT WINDOW SILL
 A253 1" = 1'-0"

KEYNOTES

03-03	POUR CONCRETE FOOTINGS AND PIER BASE
03-04	RECONSTRUCT CONCRETE SIDEWALK. SEE CIVIL
04-01	RESET STONE AT PORCH EDGE AND INSTALL REPLACEMENT CAST STONE TO MATCH ORIGINAL
04-02	REBUILD STAR WALLS USING SALVAGED BRICK. WHERE NECESSARY, INSTALL REPLACEMENT CAST STONE CAPS TO MATCH ORIGINAL.
04-03	REPLACE CAST STONE AT STAIRS AND TOP BAND AT PORCH. PAINT (DO NOT PAINT STEPS).
04-04	INSTALL FLEXIBLE JOINT.
04-05	REINSTALL STEPS.
04-06	CLEAN CAST STONE AROUND DOOR AND THRESHOLD.
05-01	RESTORE AND REINSTALL LAMPS. PAINT METAL AND PROVIDE NEW GLOBES.
05-02	INSTALL GUARDRAIL AT PORCH AND HANDRAIL AT STAIRS.
05-03	INSTALL BALCONY GUARDRAIL.
06-01	INSTALL WOOD BALUSTRADE AT PORCH AND STAIRS.
06-02	INSTALL DORIC COLUMNS AND REINSTALL SALVAGED BASES.
06-03	REPAIR WOOD DOOR TRIM. PAINT. SEE DOOR SCHEDULE FOR DOOR REPAIRS.
06-04	INSTALL BALCONY BALING POST.
06-05	INSTALL BALCONY BALUSTRADE.
06-06	REPAIR WOOD ENTABLATURE, INCLUDING CORNICE, INSIDE OF FRIEZE, AND ARCHITRAVE, WITH CONSOLIDANT. PAINT.
09-01	REINSTALL SALVAGED QUARRY TILES AND INSTALL NEW TILE WHERE NECESSARY.
23-01	REGRADE DISTURBED AREA AROUND BOTTOM OF STAIRS AND PIERS. REPLACE SOIL.

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Build Date: #A2514 10/19/2018

REVISIONS		
No.	Description	Date

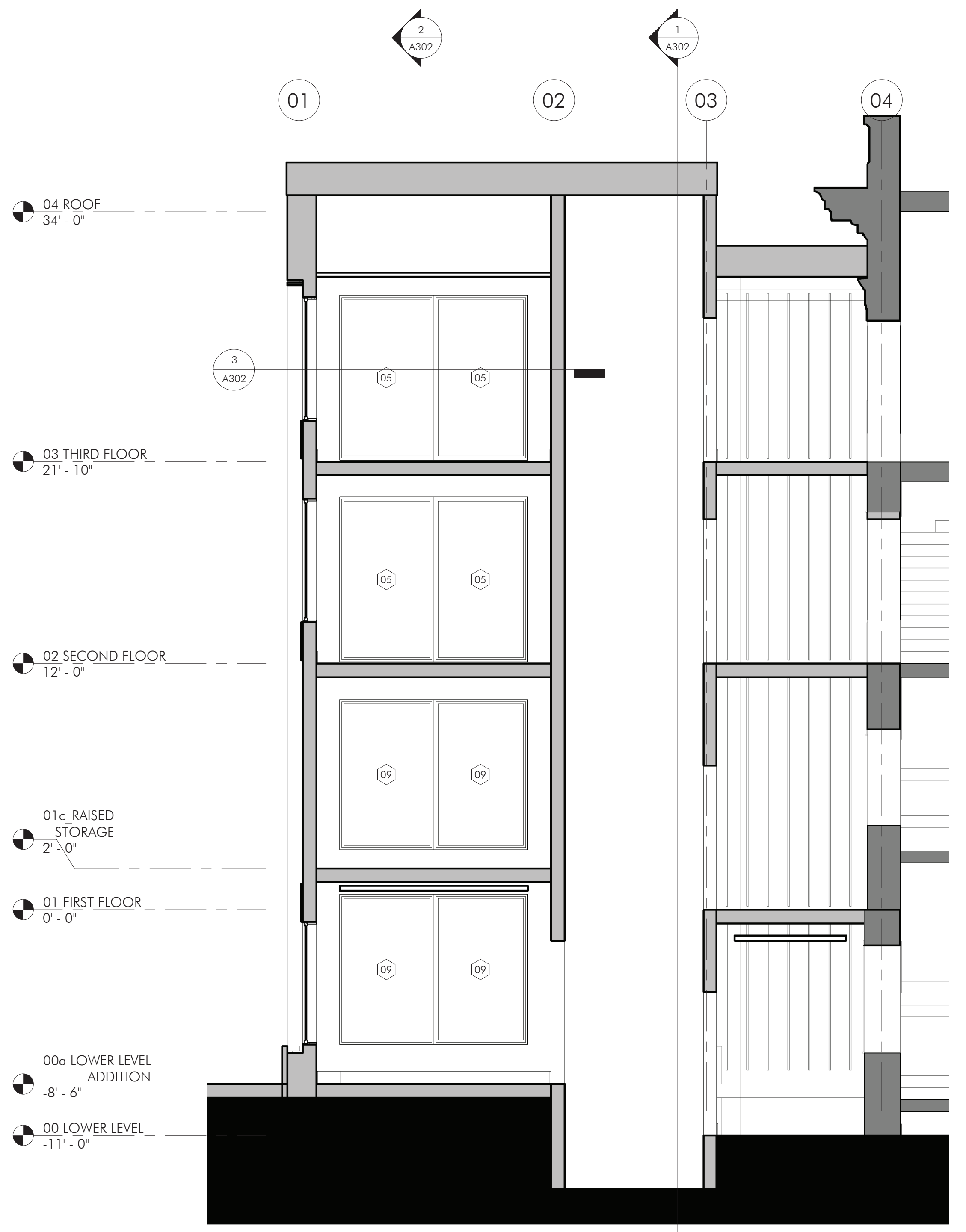
60% Legacy Grant Review

CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY Author
 DATE 10/13/20

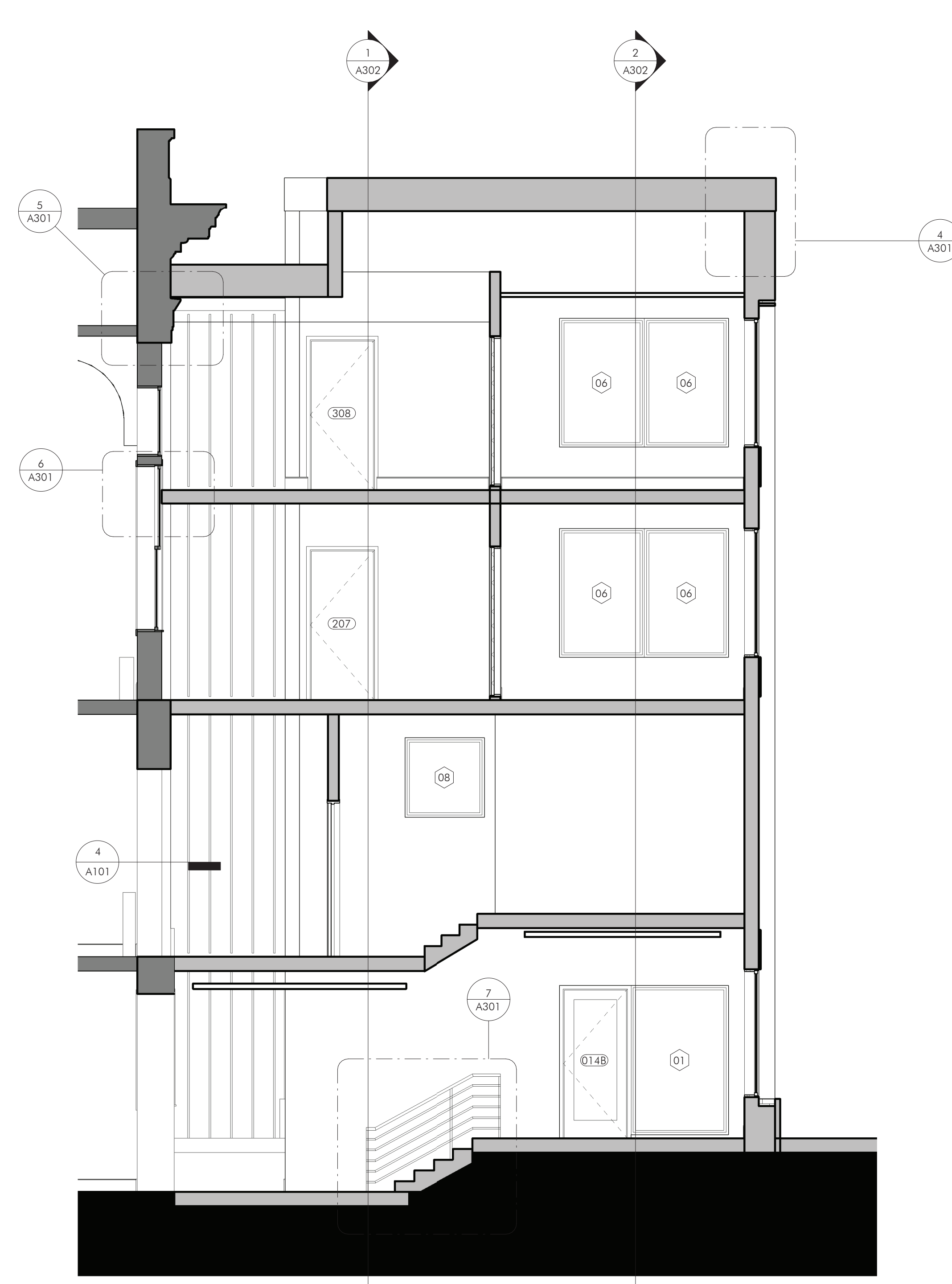
REVISIONS

PORCH/BALCONY PLANS & SECTIONS

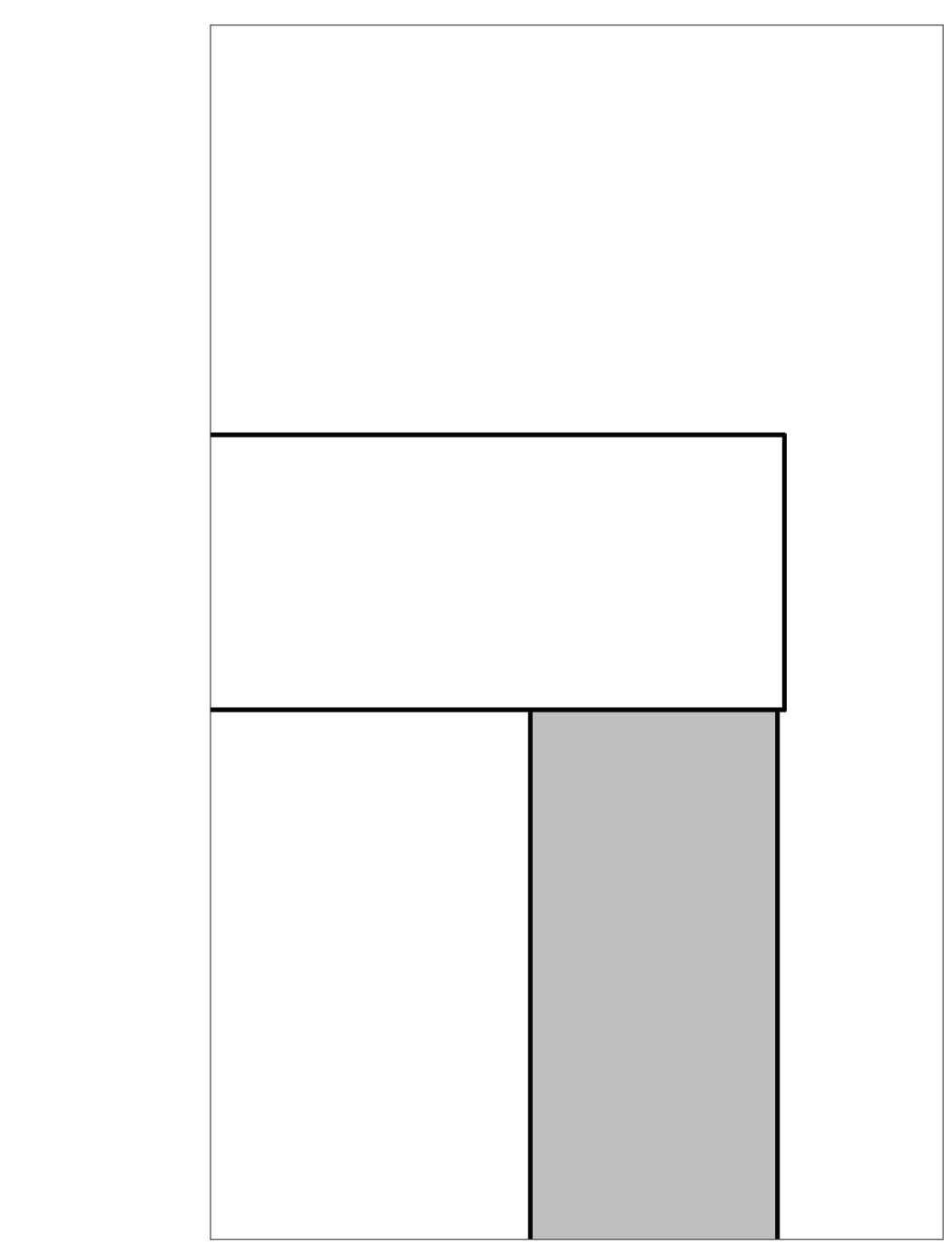
A253



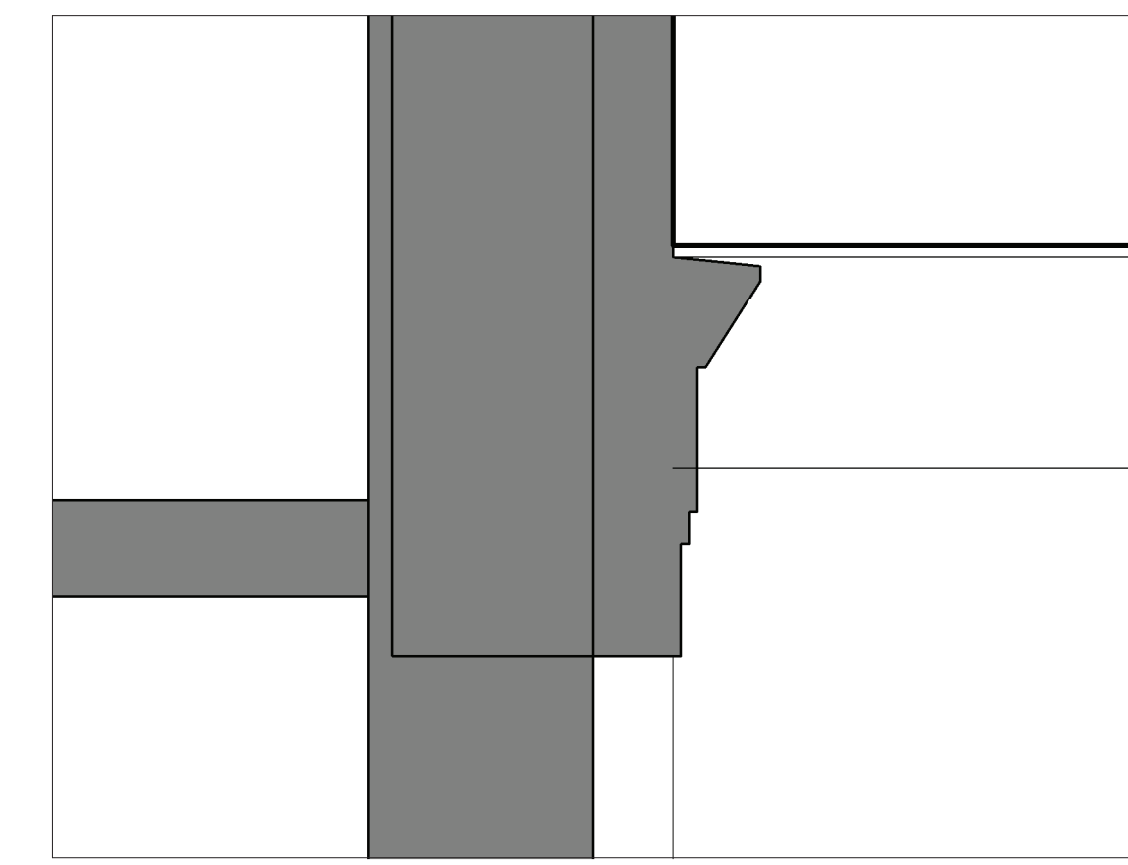
3 | ADDITION SECTION - EAST/WEST 01
 A301 | 1/4" = 1'-0"



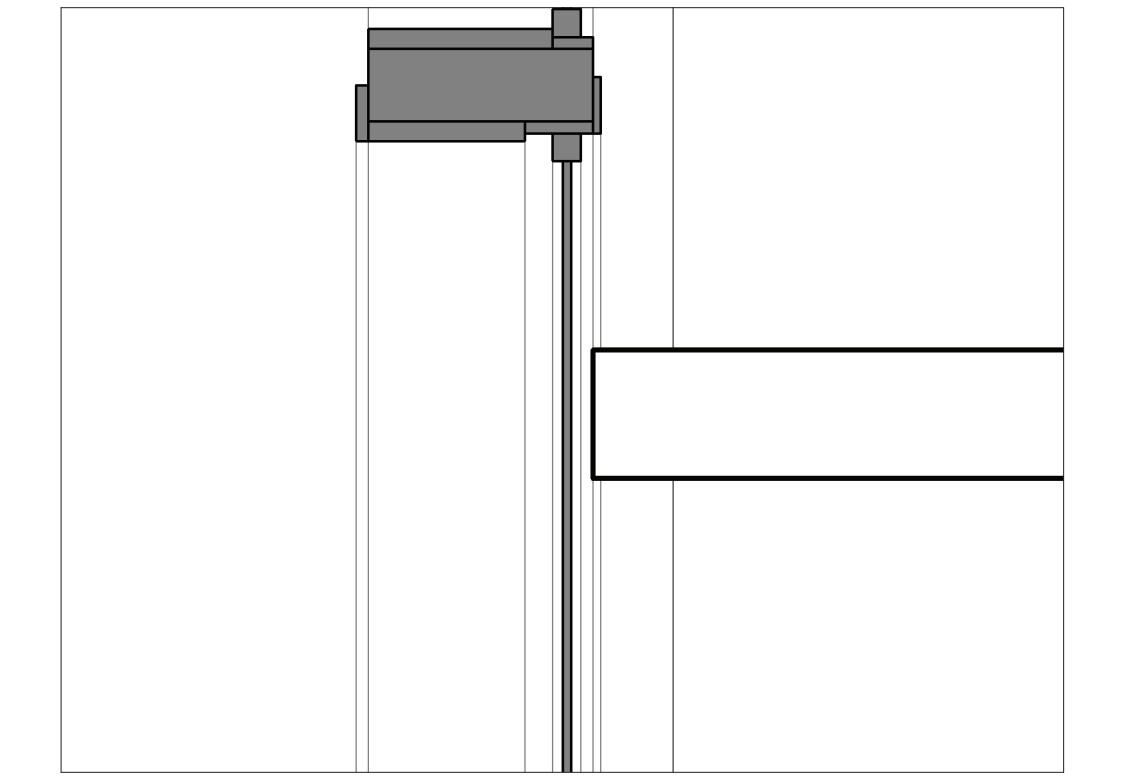
1 | ADDITION SECTION - EAST/WEST 02
 A301 | 1/4" = 1'-0"



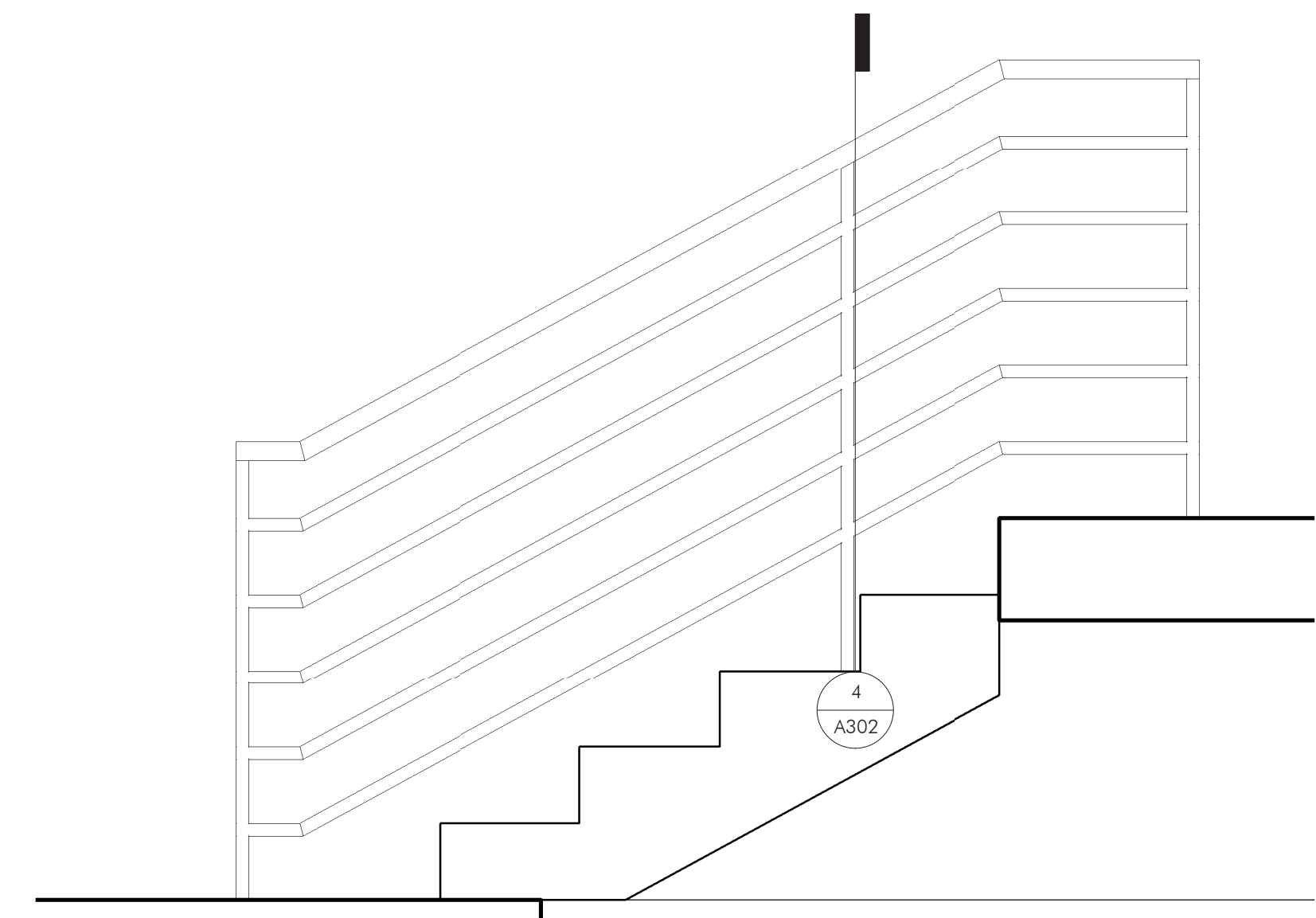
4 | ADDITION PARAPET - SECTION
 A301 | 1" = 1'-0"



5 | ADDITION ROOF INTERSECTION WITH CORNICE - SECTION
 A301 | 1" = 1'-0"



6 | FLOOR PLATE INTERSECTION AT WINDOW - SECTION
 A301 | 1" = 1'-0"



7 | RAISED STORAGE STAIR - SECTION
 A301 | 1" = 1'-0"

KEYNOTES

LEGEND

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Scale: Drawing #A3014 10/09/2018

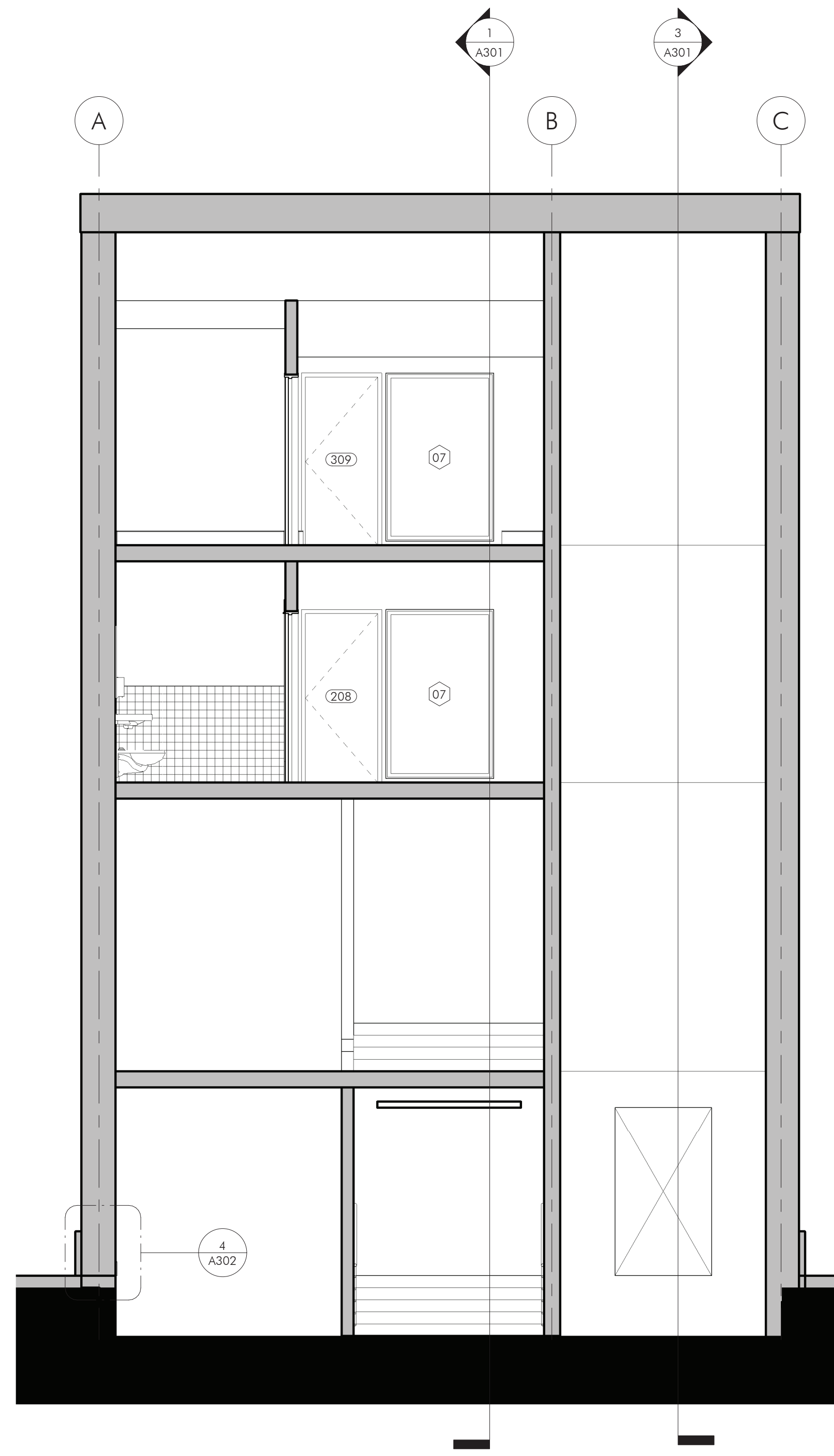
REVISIONS	
No.	Description

60% Legacy Grant Review

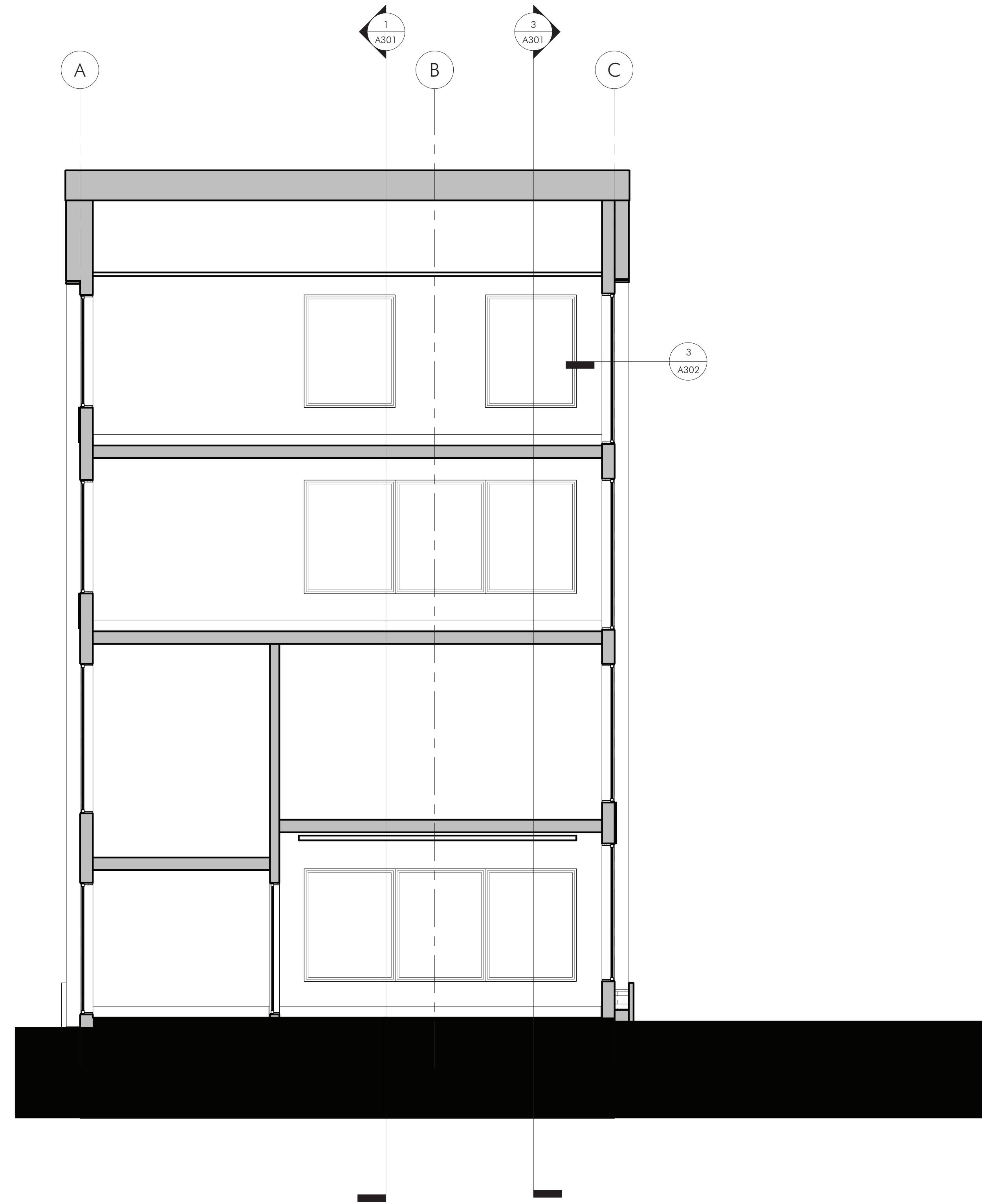
CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY Author DATE 10/22/20

BUILDING SECTIONS

A301



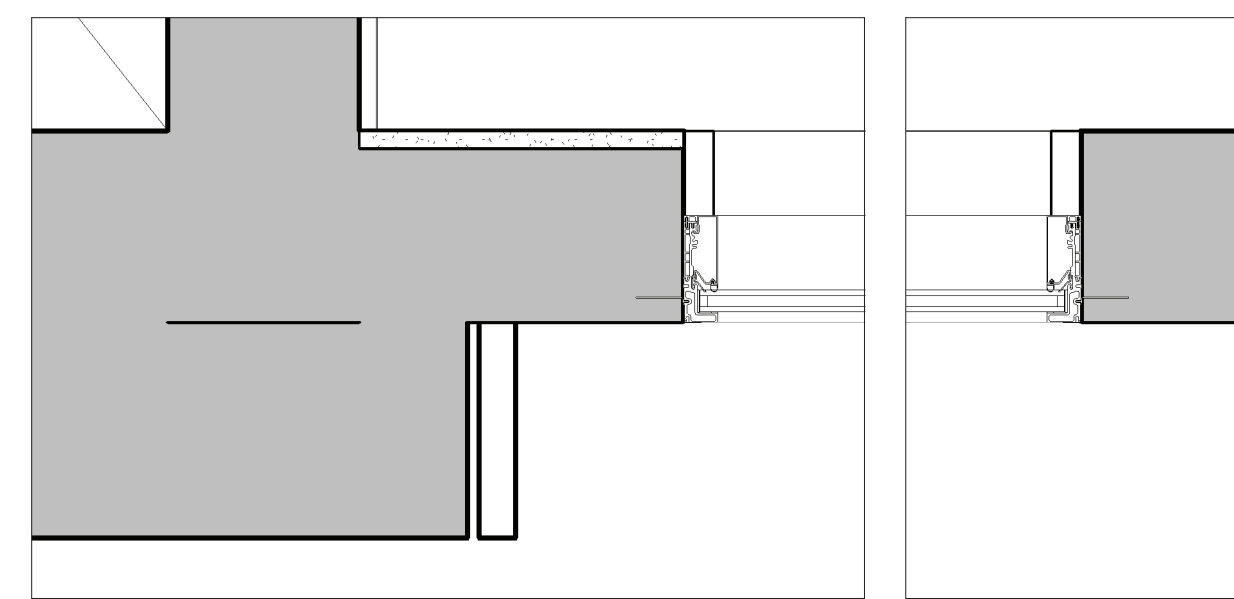
1 | ADDITION SECTION - NORTH/SOUTH 01
 A302 | 1/4" = 1'-0"



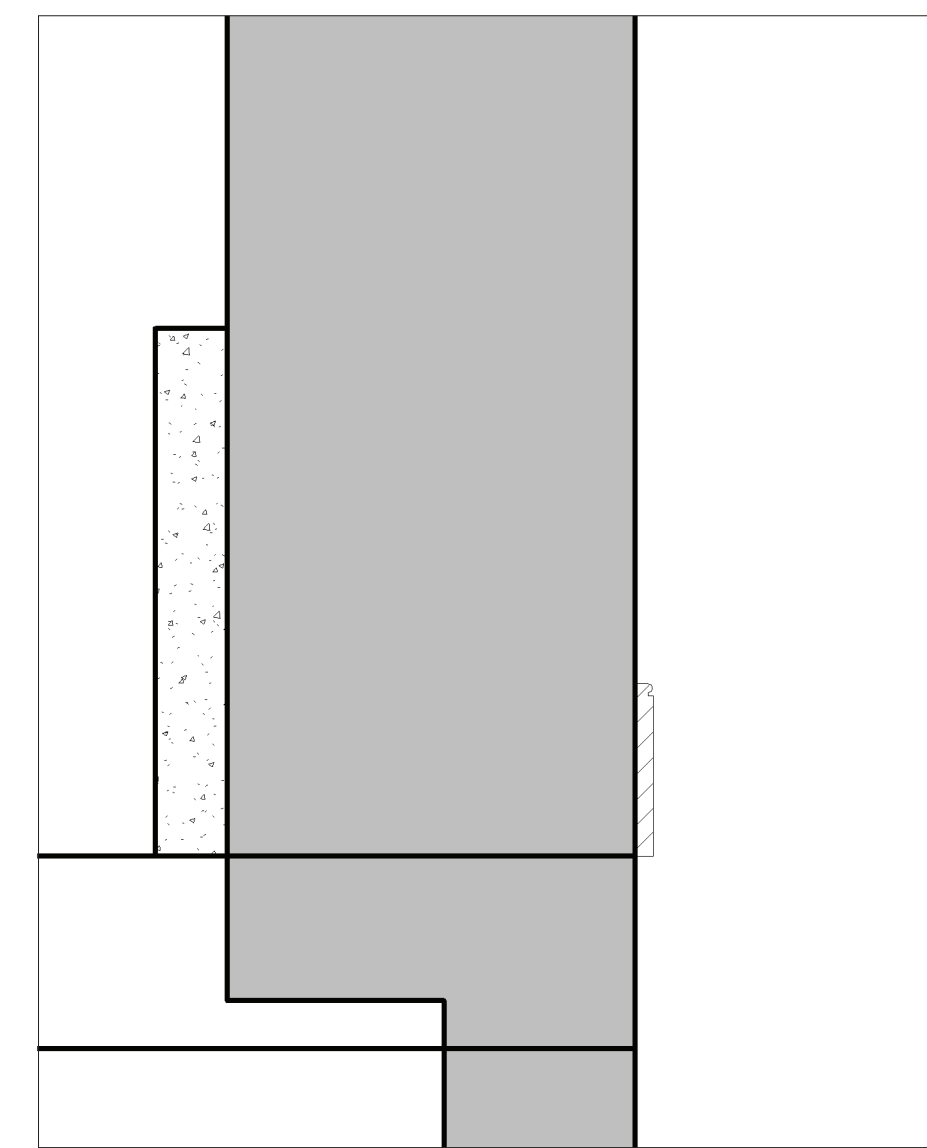
2 | ADDITION SECTION - NORTH/SOUTH 02
 A302 | 1/4" = 1'-0"

- 04 ROOF
34' - 0"
- 03 THIRD FLOOR
21' - 10"
- 02 SECOND FLOOR
12' - 0"
- X01b_Landing/Storage Room
7' - 9 1/2"
- 01 FIRST FLOOR
0' - 0"
- 00a LOWER LEVEL ADDITION
-8' - 6"
- 00 LOWER LEVEL
-11' - 0"

KEYNOTES



3 | WINDOW - DETAIL PLAN
 A302 | 1 1/2" = 1'-0"



4 | FOUNDATION - DETAIL SECTION
 A302 | 1 1/2" = 1'-0"

LEGEND

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

REVISIONS	
No.	Description

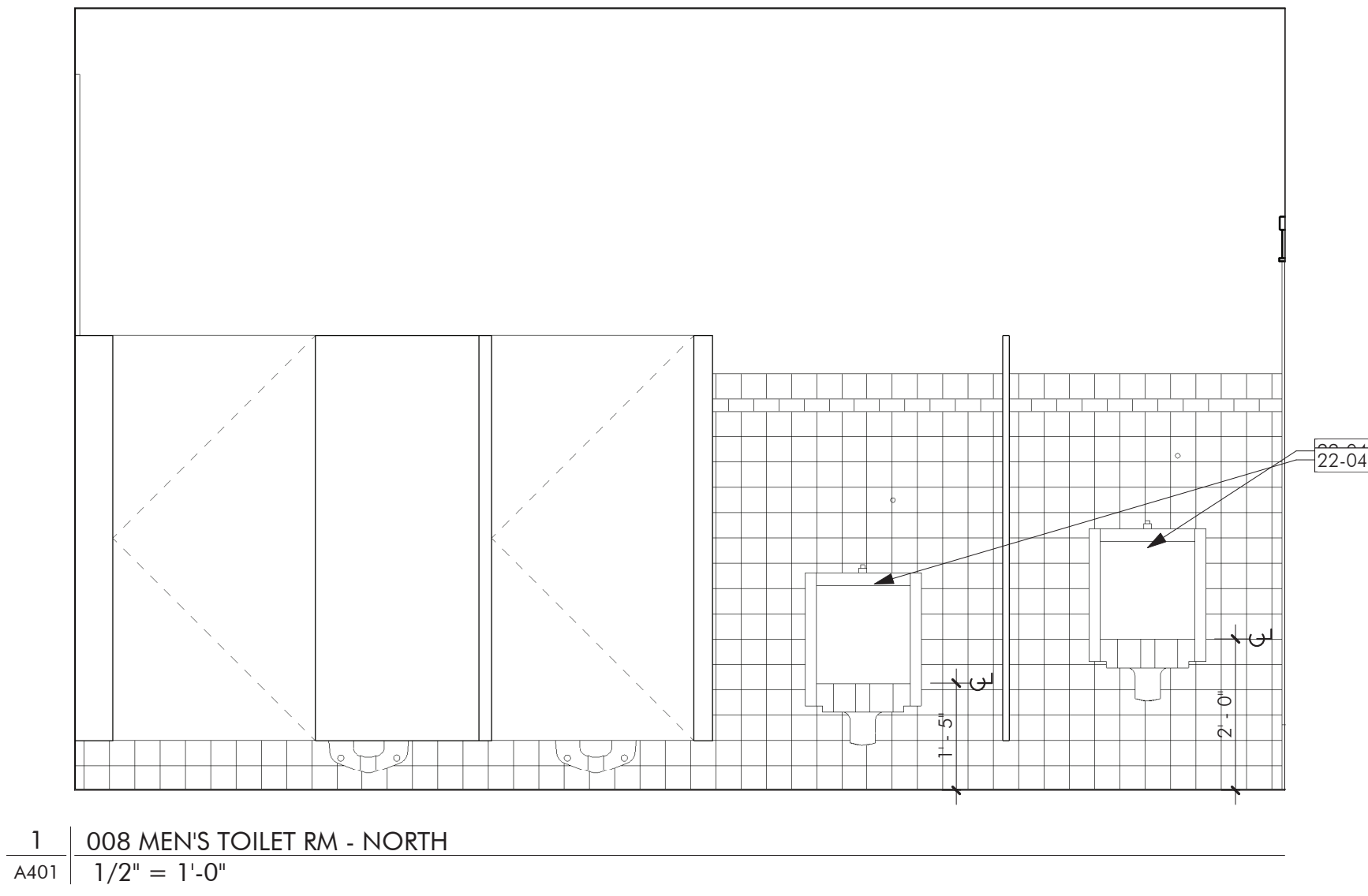
Scale: 1/4" = 1'-0" 10/09/2018

60% Legacy Grant Review

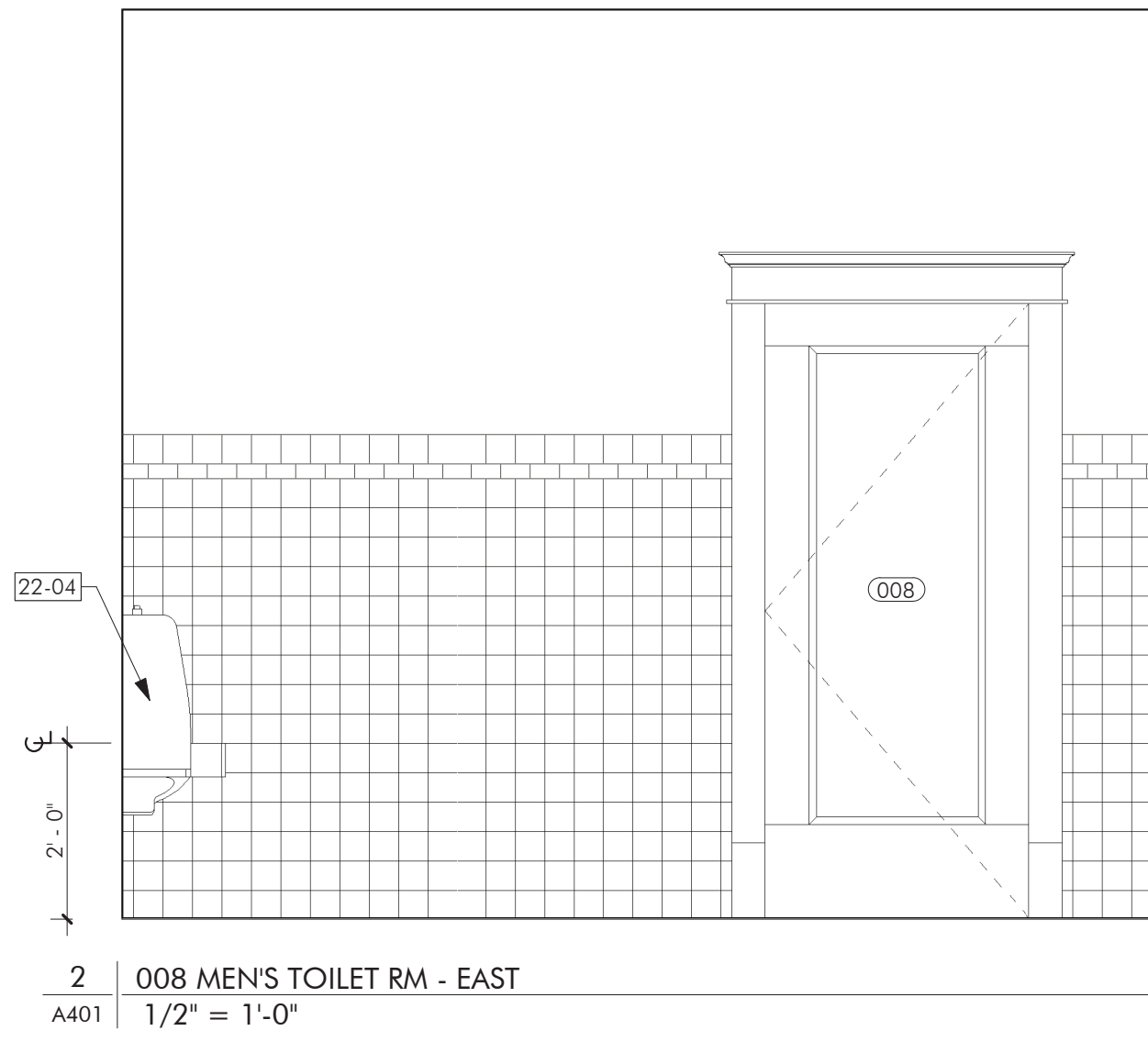
CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY Author DATE 01/25/21

BUILDING SECTIONS AND DETAILS

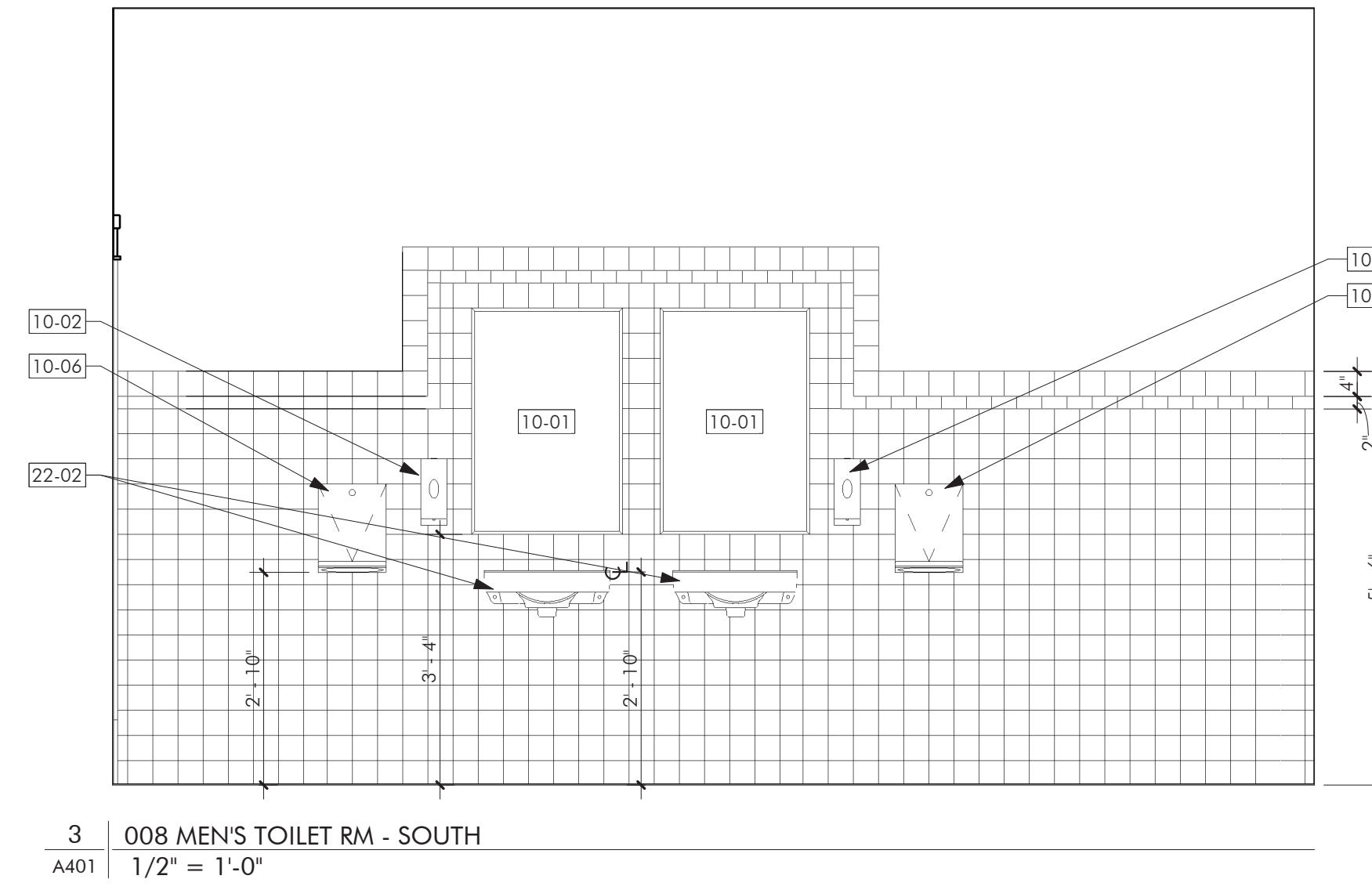
A302



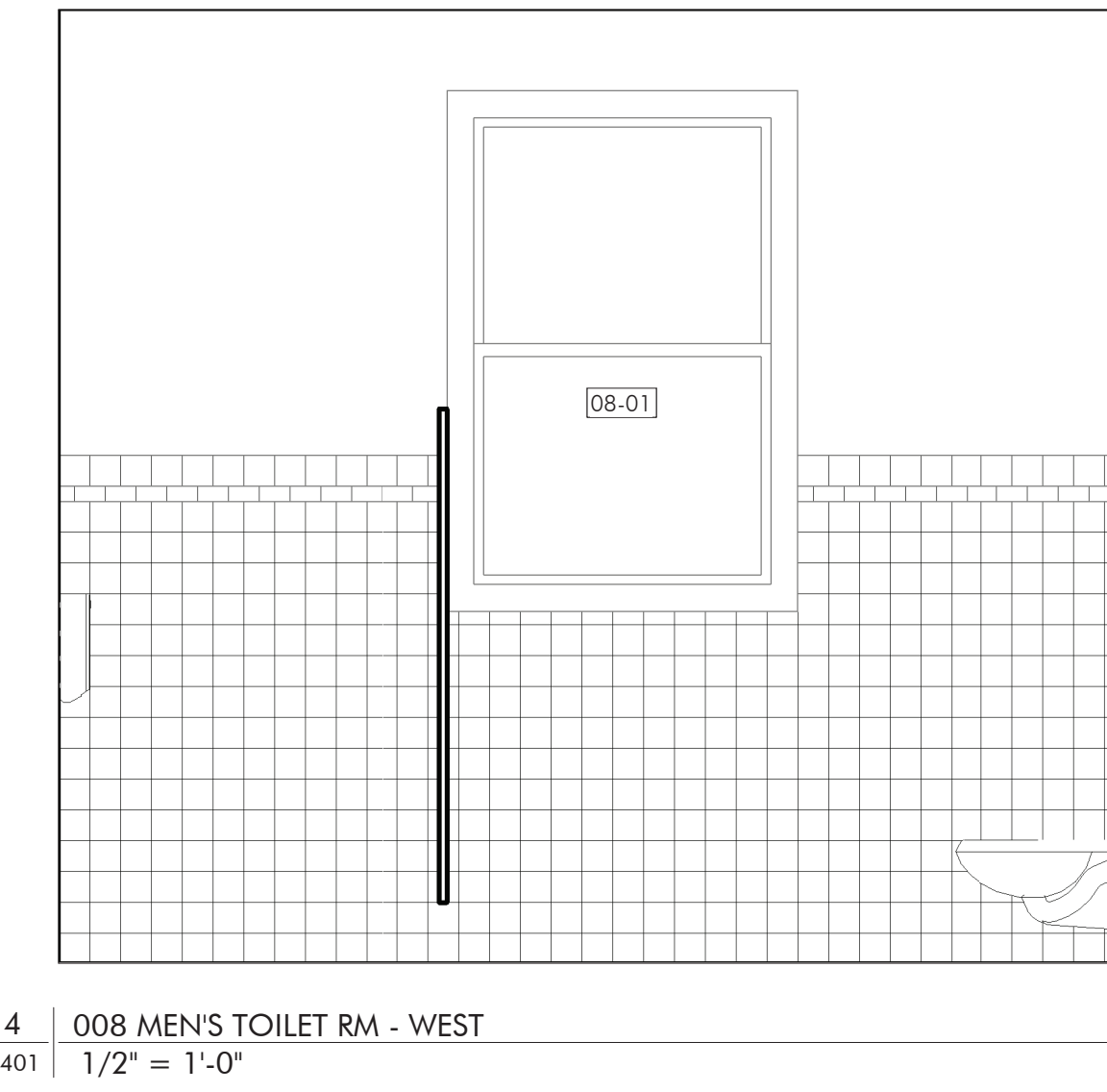
1 | 008 MENS TOILET RM - NORTH
 A401 | 1/2" = 1'-0"



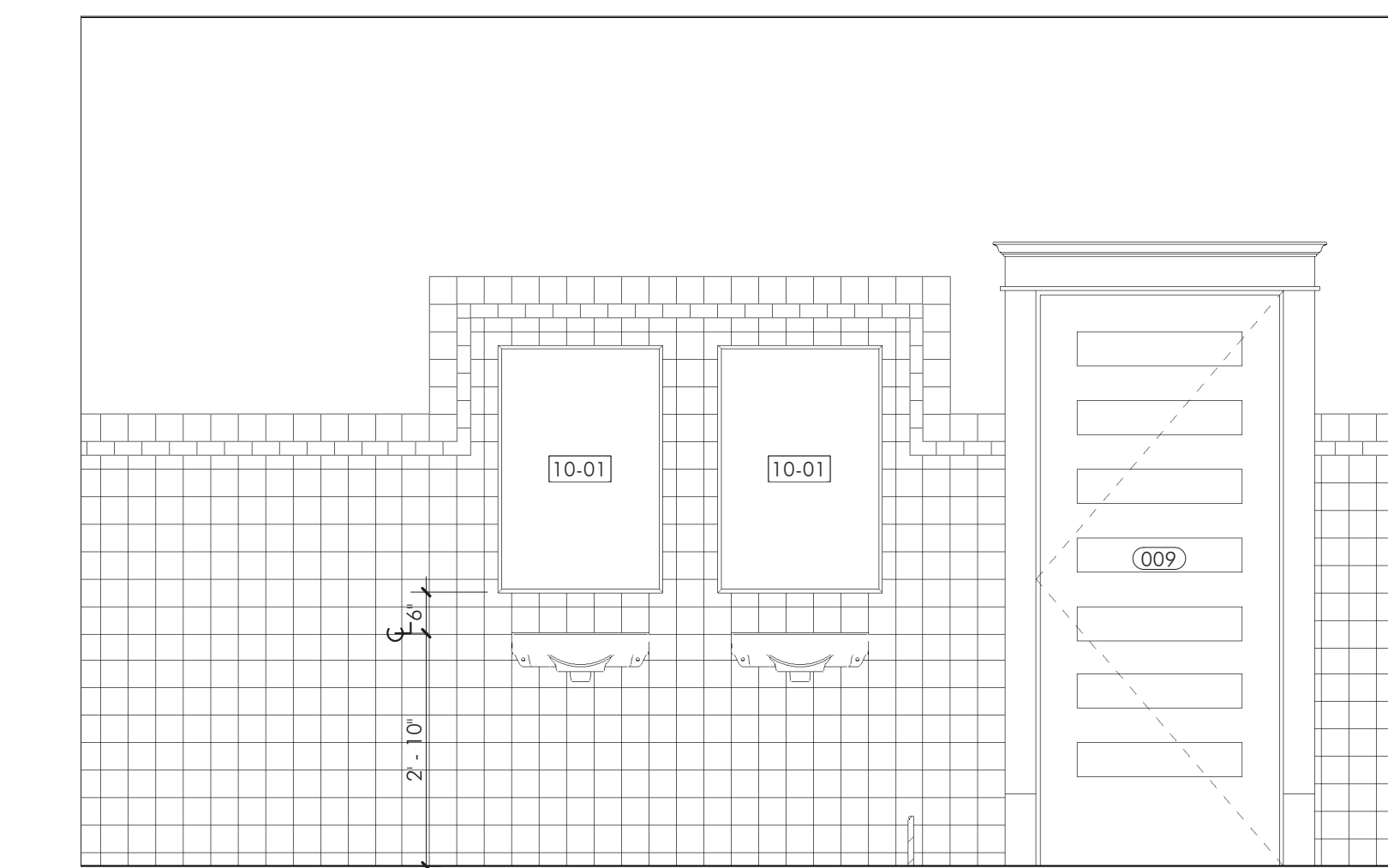
2 | 008 MENS TOILET RM - EAST
 A401 | 1/2" = 1'-0"



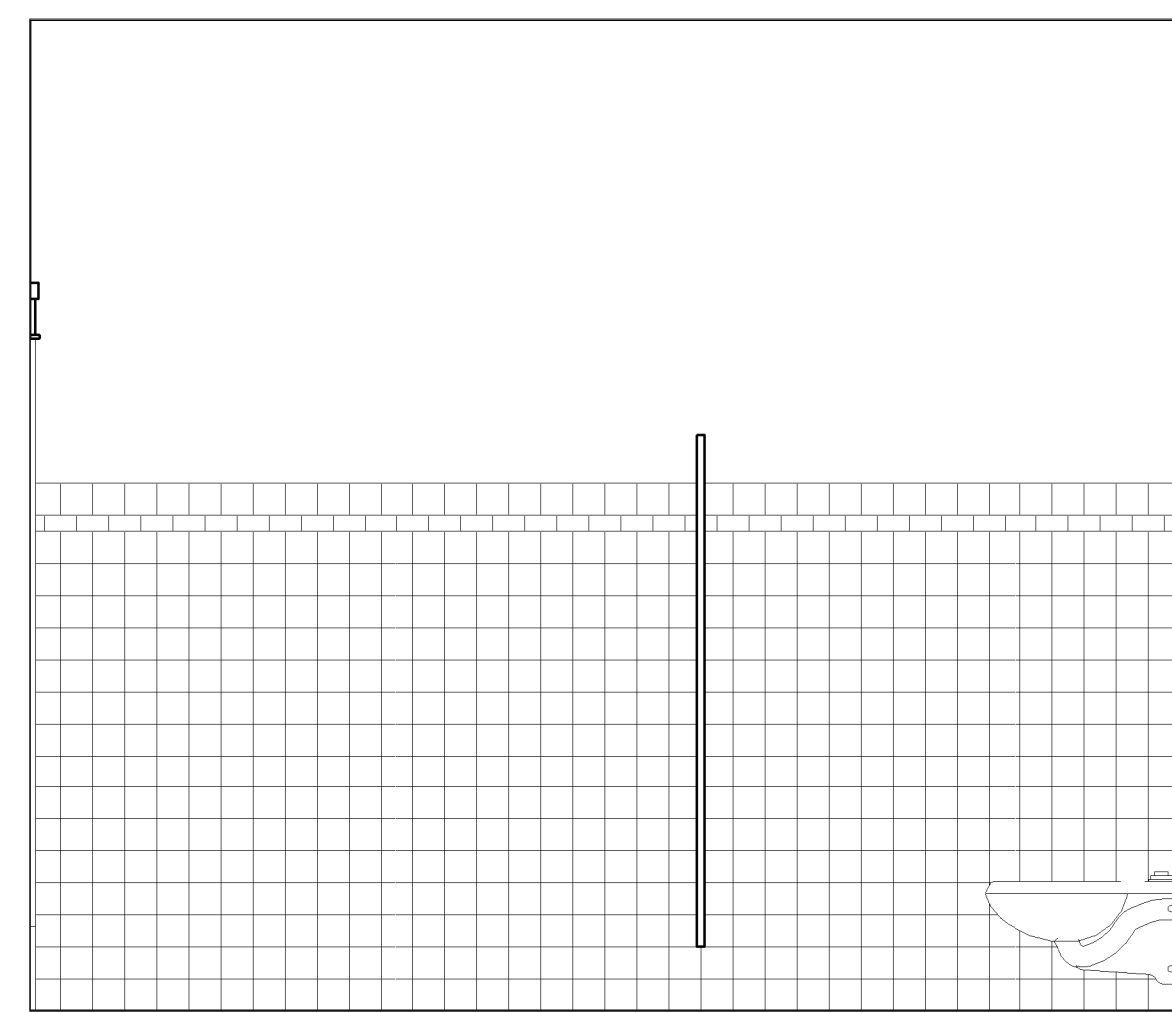
3 | 008 MENS TOILET RM - SOUTH
 A401 | 1/2" = 1'-0"



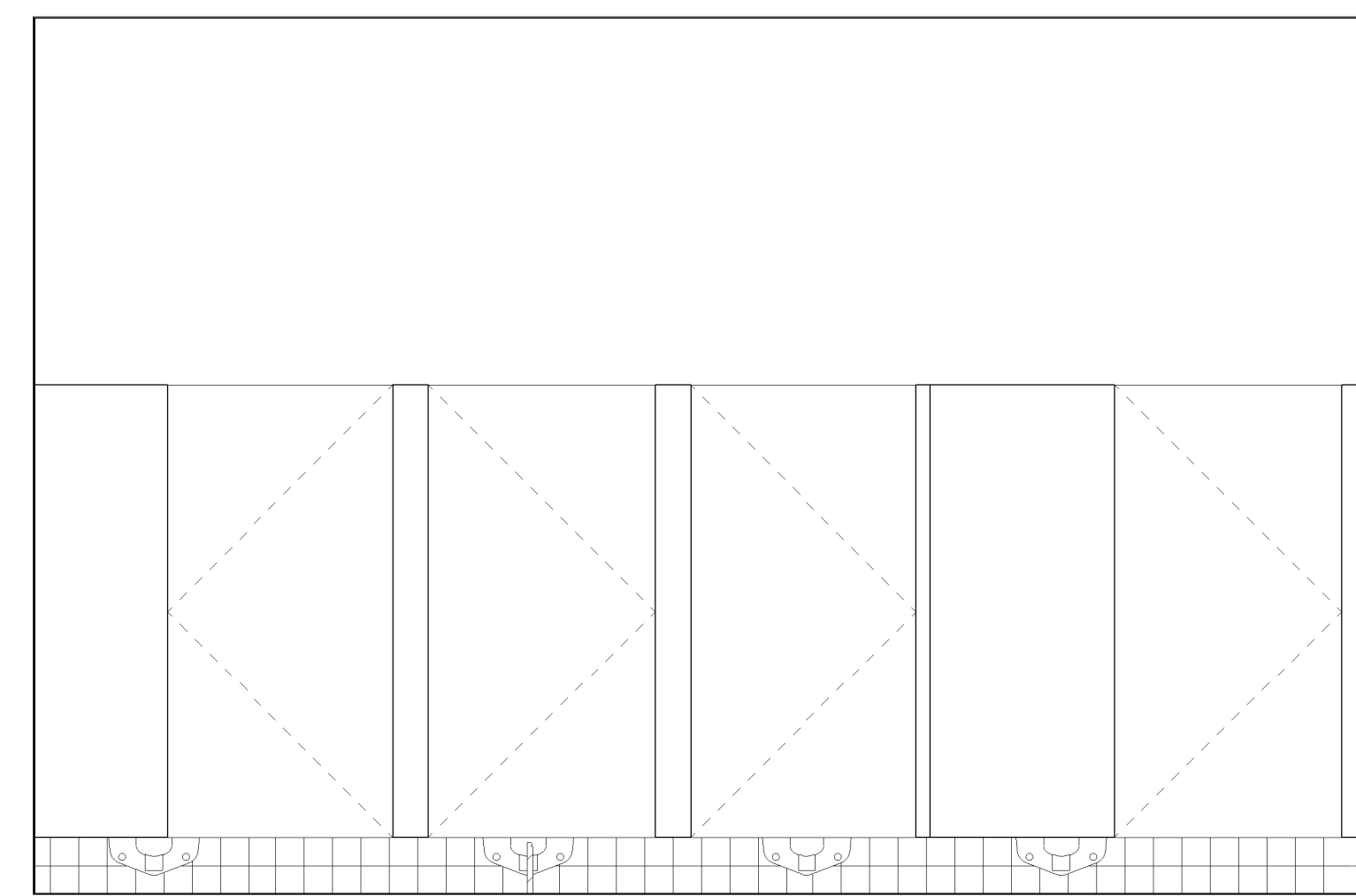
4 | 008 MENS TOILET RM - WEST
 A401 | 1/2" = 1'-0"



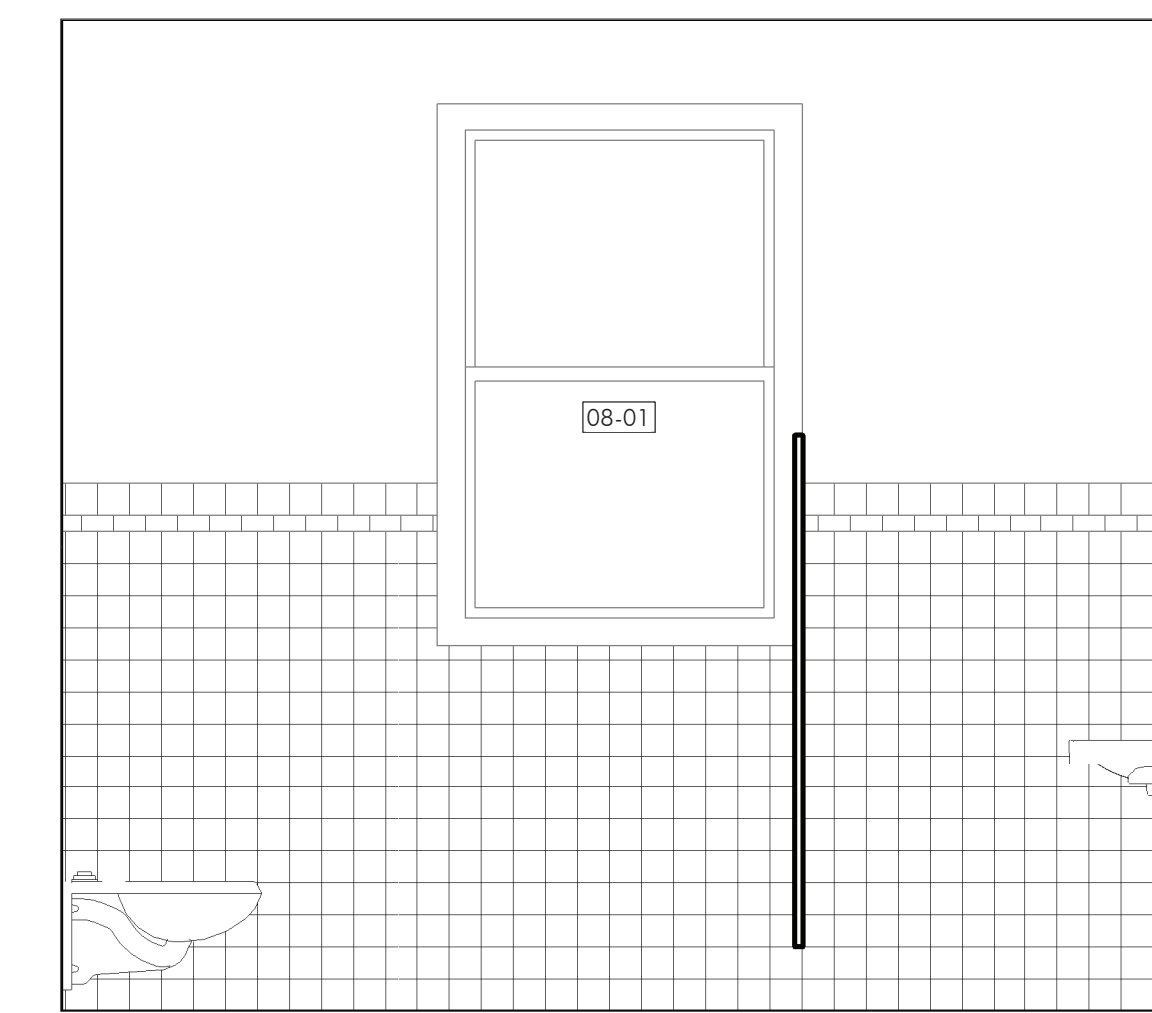
5 | 009 WOMENS TOILET RM - NORTH
 A401 | 1/2" = 1'-0"



6 | 009 WOMENS TOILET RM - EAST
 A401 | 1/2" = 1'-0"



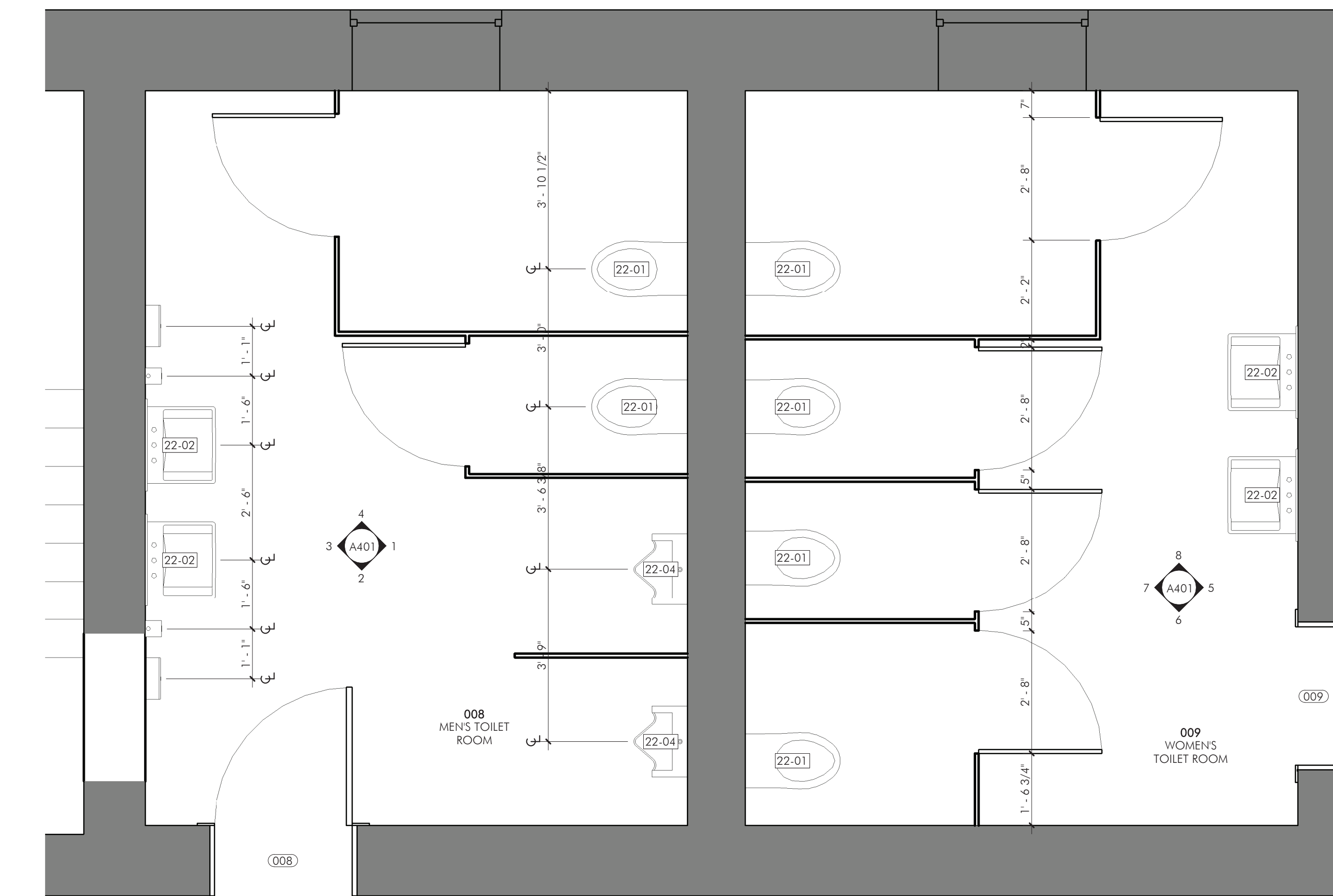
7 | 009 WOMENS TOILET RM - SOUTH
 A401 | 1/2" = 1'-0"



8 | 009 WOMENS TOILET RM - WEST
 A401 | 1/2" = 1'-0"

KEYNOTES

08-01	APPLY VINYL PRIVACY FILM TO EXISTING GLAZING.
10-01	PROVIDE MIRROR. SEE PLUMBING ACCESSORY SCHEDULE.
10-02	PROVIDE WALL-MOUNTED SOAP DISPENSER. SEE PLUMBING ACCESSORY SCHEDULE.
10-06	PROVIDE PAPER TOWEL DISPENSER. SEE PLUMBING ACCESSORY SCHEDULE.
22-01	PROVIDE WALL MOUNTED TOILET. SEE PLUMB. DWGS.
22-02	PROVIDE WALL MOUNT FAUCET SINK. SEE PLUMB. FIXTURE SCHEDULE AND PLUMB. DWGS.
22-04	PROVIDE WALL MOUNTED URINAL. SEE PLUMB. FIXTURE SCHEDULE AND PLUMB. DWGS.



17 | LOWER LEVEL TOILET ROOMS - ENLARGED
 A401 | 1/2" = 1'-0"

LEGEND

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Build Group #A4014 10/09/2018

REVISIONS		
No.	Description	Date

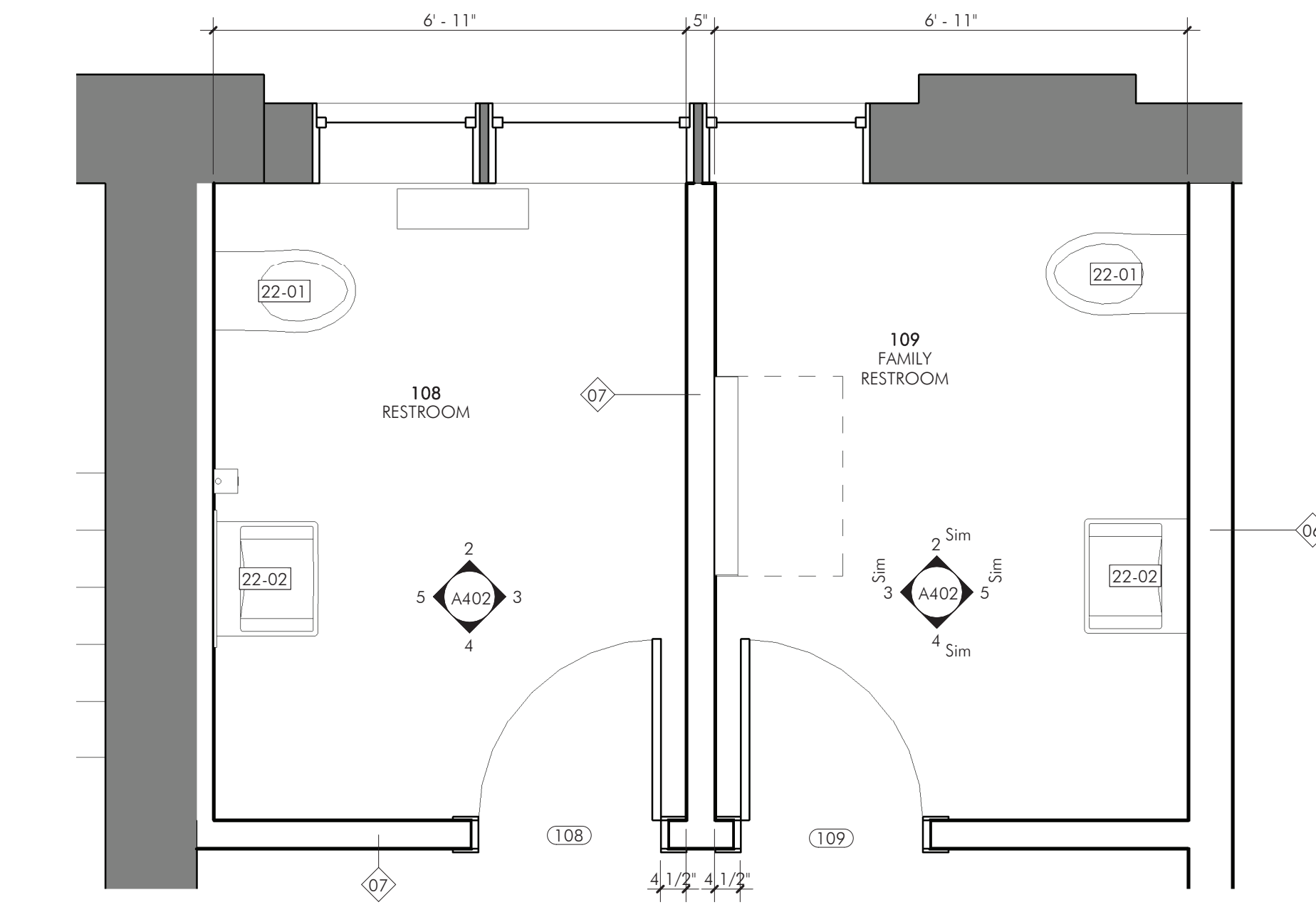
60% Legacy Grant Review

CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY Author DATE 01/17/21

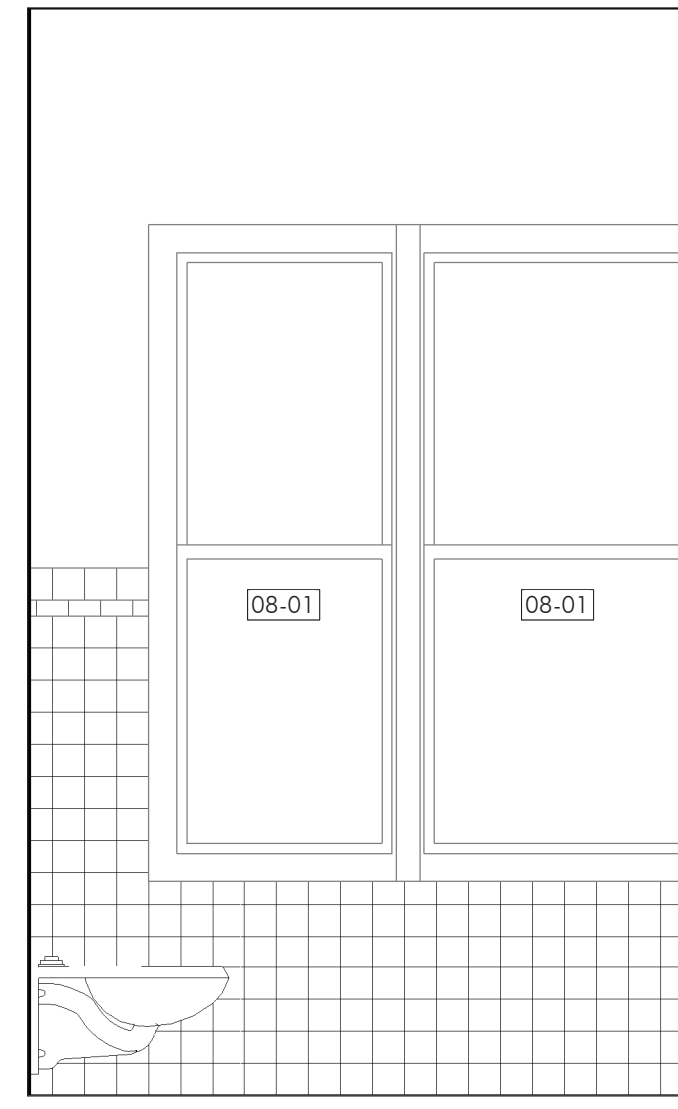
LL ENLARGED
 RESTROOM PLAN
 AND ELEVATIONS

A401

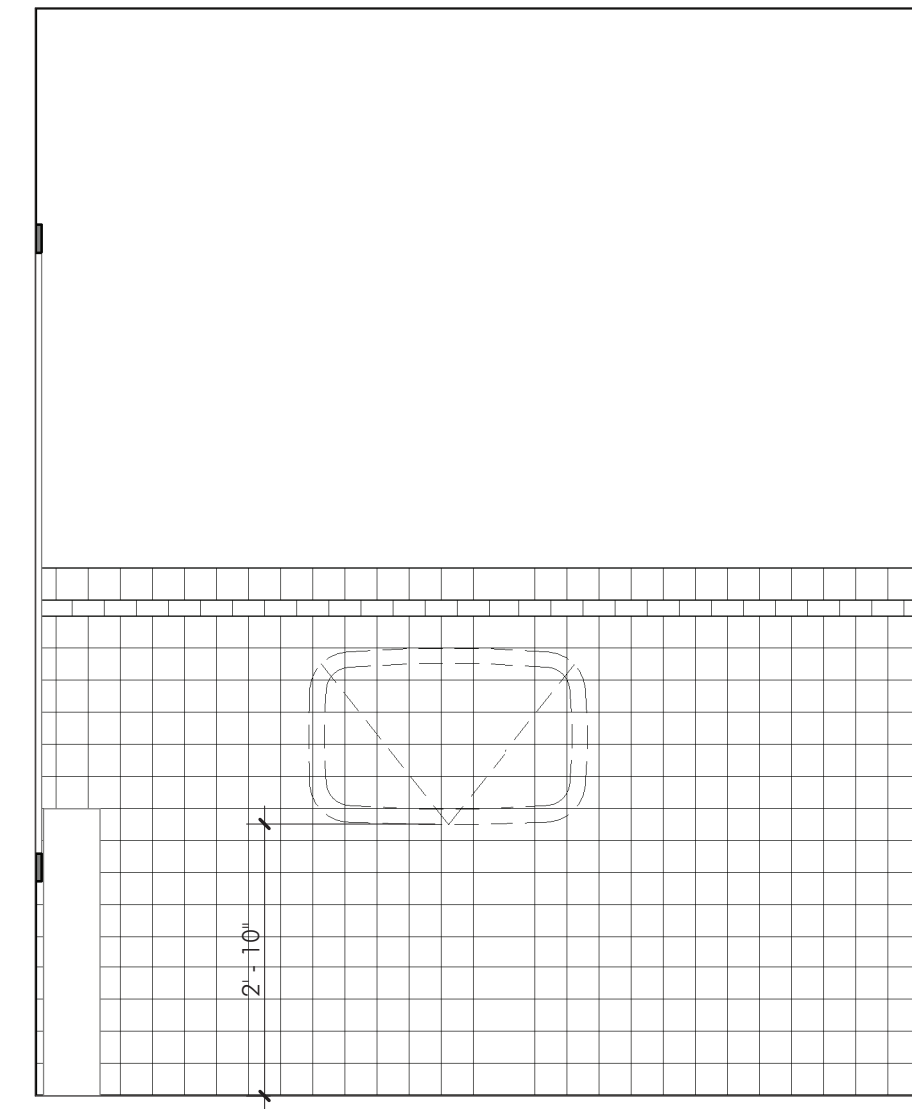
- PLEASE REFER TO SHEET G000 FOR GENERAL NOTES AND SPECIAL REQUIREMENTS.
- FULL HEIGHT METAL STUD PARTITIONS SHALL RUN FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE AND INCLUDE FINISH MATERIAL FOR FULL HEIGHT.
- FURRING PARTITIONS SHALL RUN TO 6" ABOVE THE FINISHED CEILING AND SHALL BE BRACED BACK TO THE EXISTING WALL.
- ALL FULL HEIGHT METAL STUD PARTITIONS SHALL BE 24" O.C.
- ALL MEASUREMENTS TAKEN FROM FINISH FACE OF WALLS.



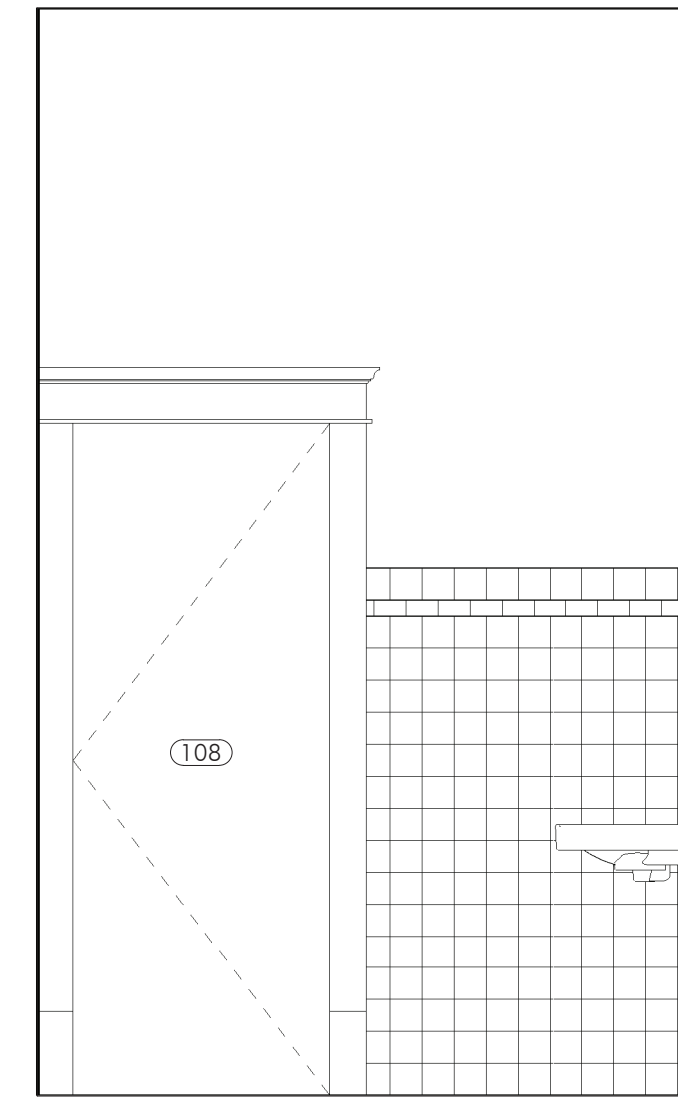
1 FIRST FLOOR RESTROOMS - ENLARGED
 PLAN
 A402 1/2" = 1'-0"



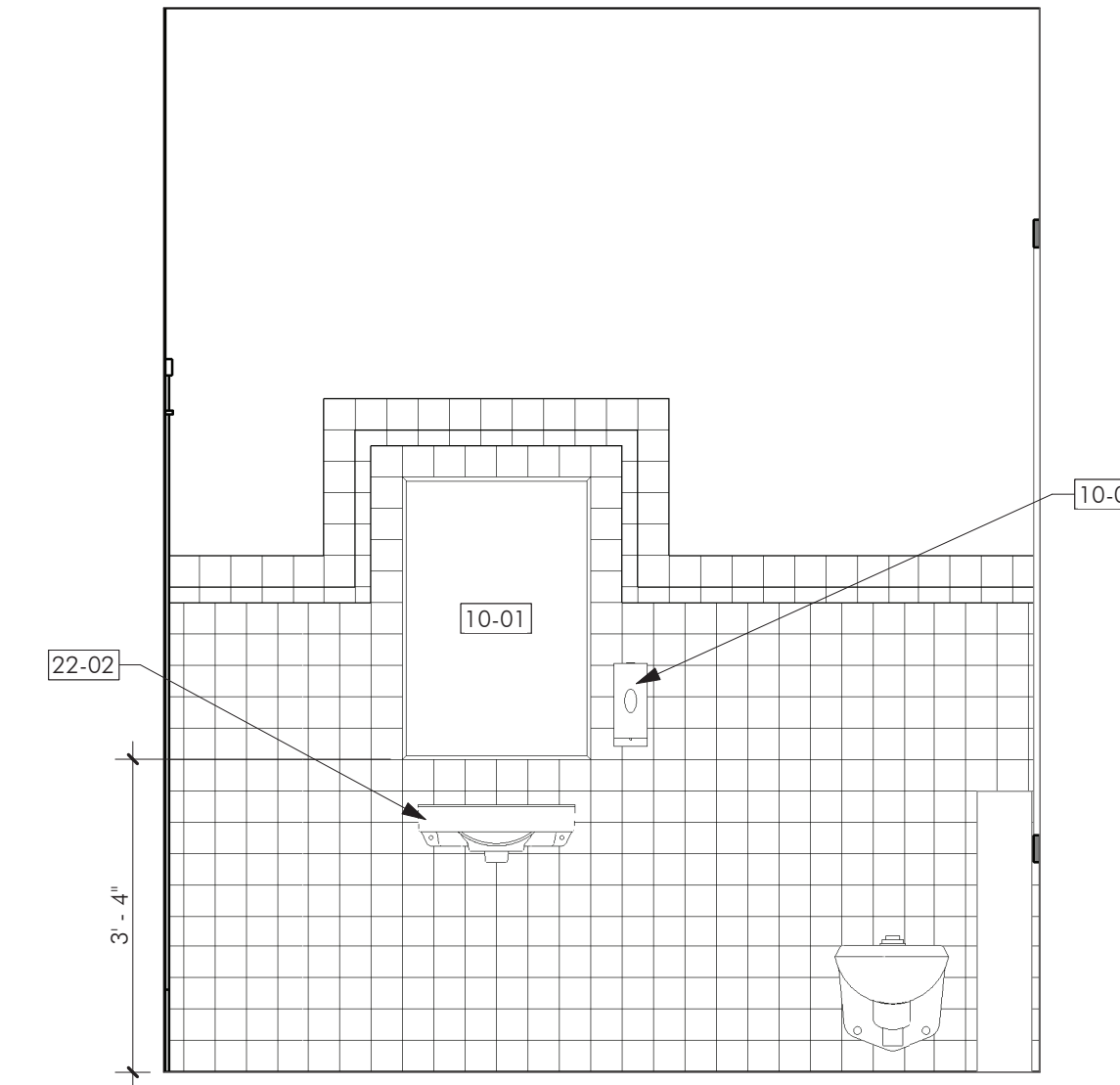
2 108/109 FAMILY RESTROOM, TYP - WEST
 A402 1/2" = 1'-0"



3 108/109 FAMILY RESTROOM, TYP - NORTH
 A402 1/2" = 1'-0"



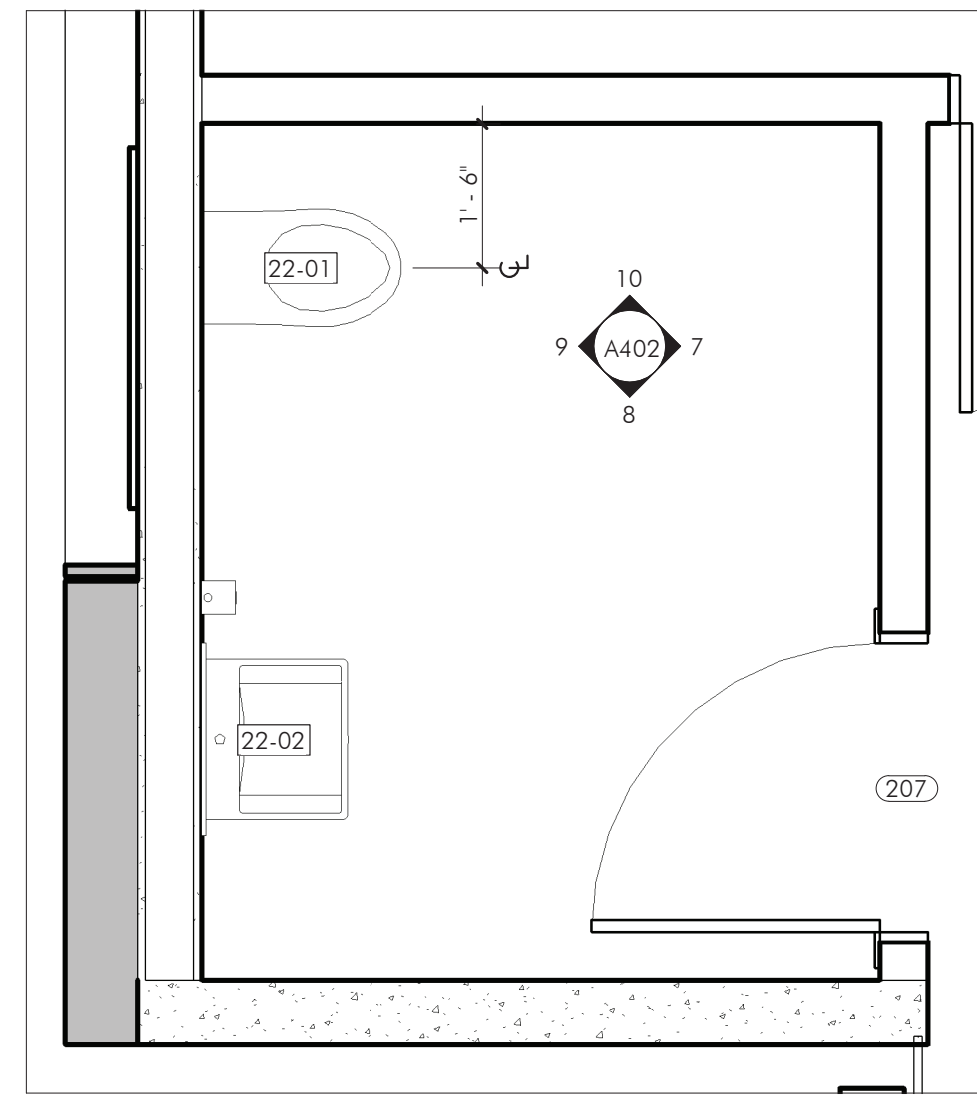
4 108/109 FAMILY RESTROOM, TYP - EAST
 A402 1/2" = 1'-0"



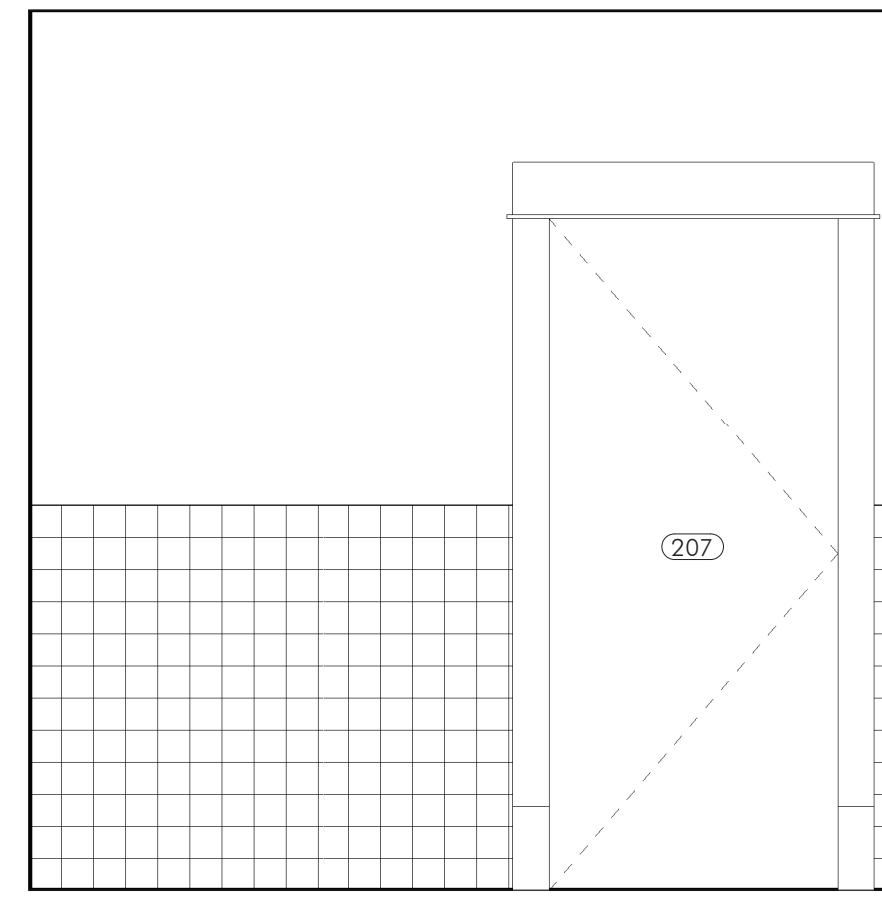
5 108/109 FAMILY RESTROOM, TYP - SOUTH
 A402 1/2" = 1'-0"

KEYNOTES

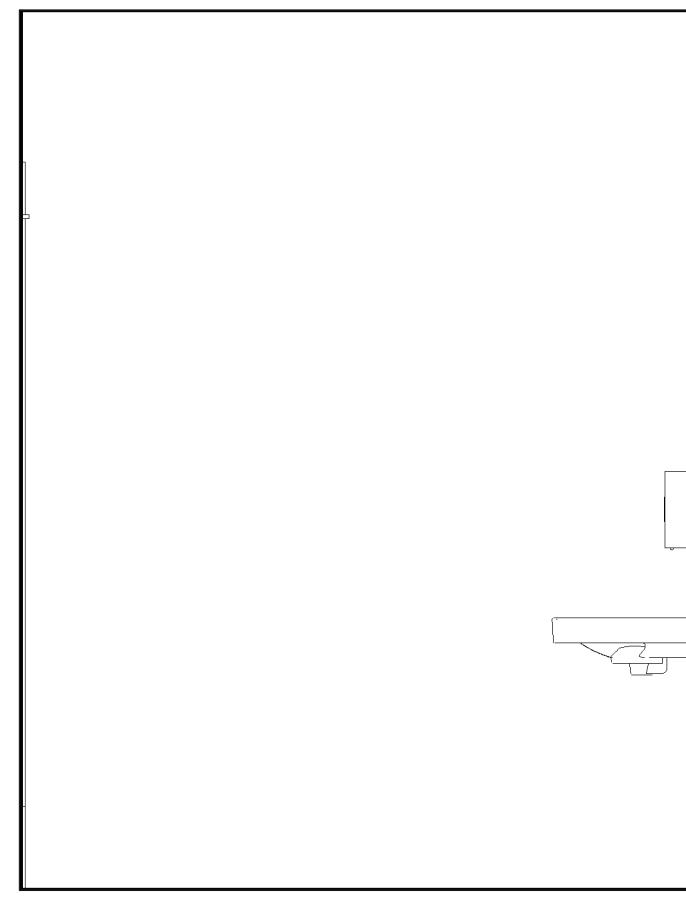
08-01	APPLY VINYL PRIVACY FILM TO EXISTING GLAZING.
10-01	PROVIDE MIRROR. SEE PLUMBING ACCESSORY SCHEDULE.
10-02	PROVIDE WALL-MOUNTED SOAP DISPENSER. SEE PLUMBING ACCESSORY SCHEDULE.
22-01	PROVIDE WALL MOUNTED TOILET. SEE PLUMB. DWGS.
22-02	PROVIDE WALL MOUNT FAUCET SINK. SEE PLUMB. FIXTURE SCHEDULE AND PLUMB. DWGS.



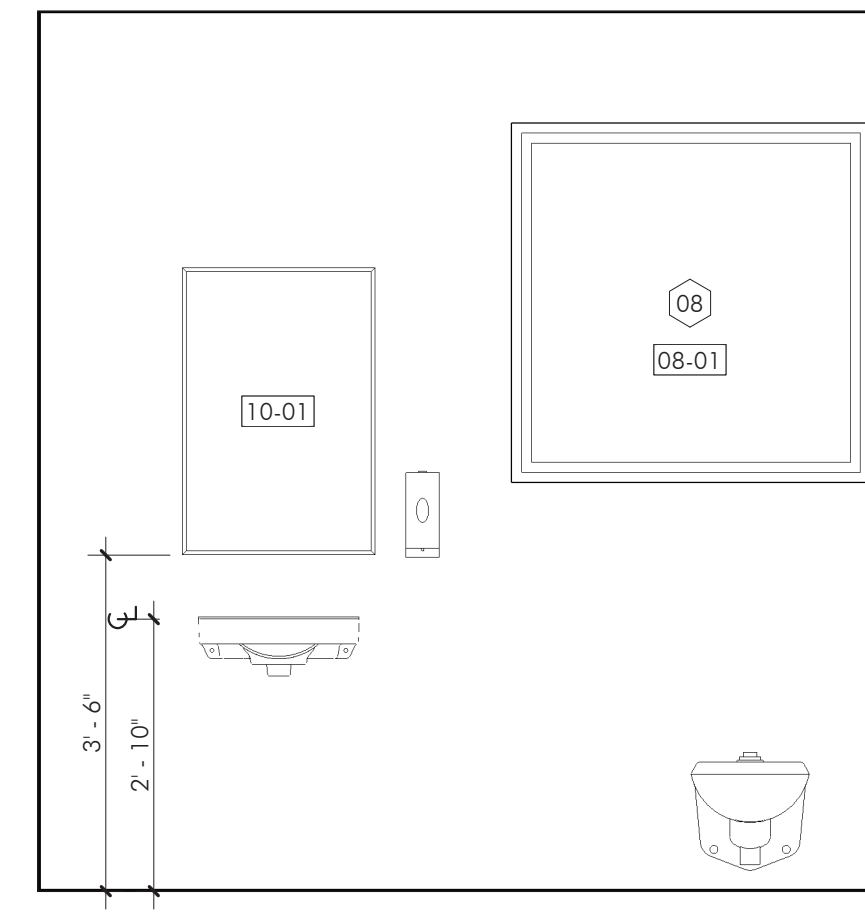
6 SECOND/THIRD FLOOR RR - ENLARGED
 PLAN
 A402 1/2" = 1'-0"



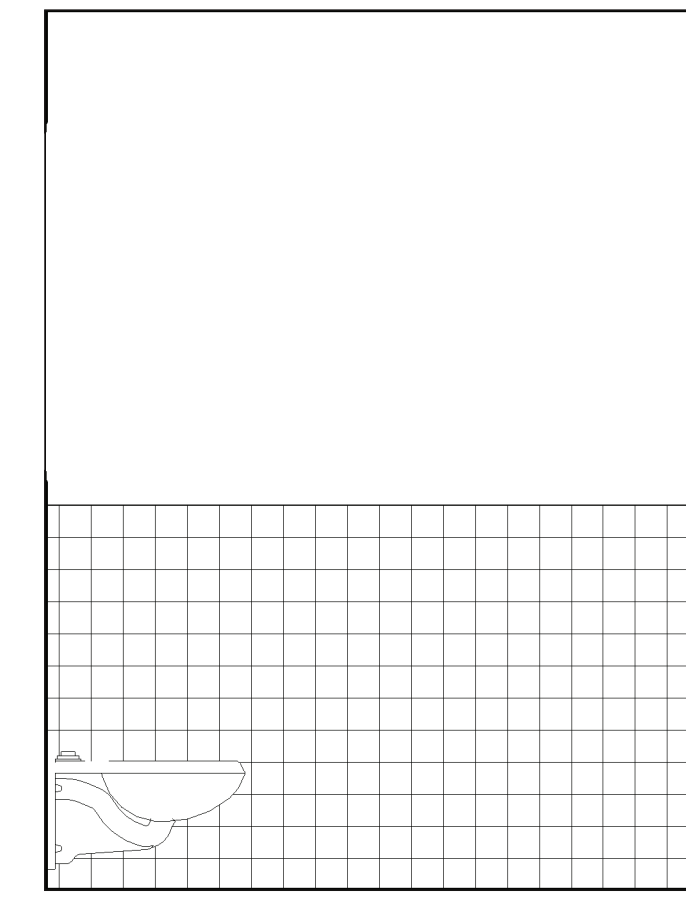
7 207 RESTROOM - NORTH
 A402 1/2" = 1'-0"



8 207 RESTROOM - EAST
 A402 1/2" = 1'-0"



9 207 RESTROOM - SOUTH
 A402 1/2" = 1'-0"



10 207 RESTROOM - WEST
 A402 1/2" = 1'-0"

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Scale: Overall #A4014 10/09/2018

REVISIONS		
No.	Description	Date

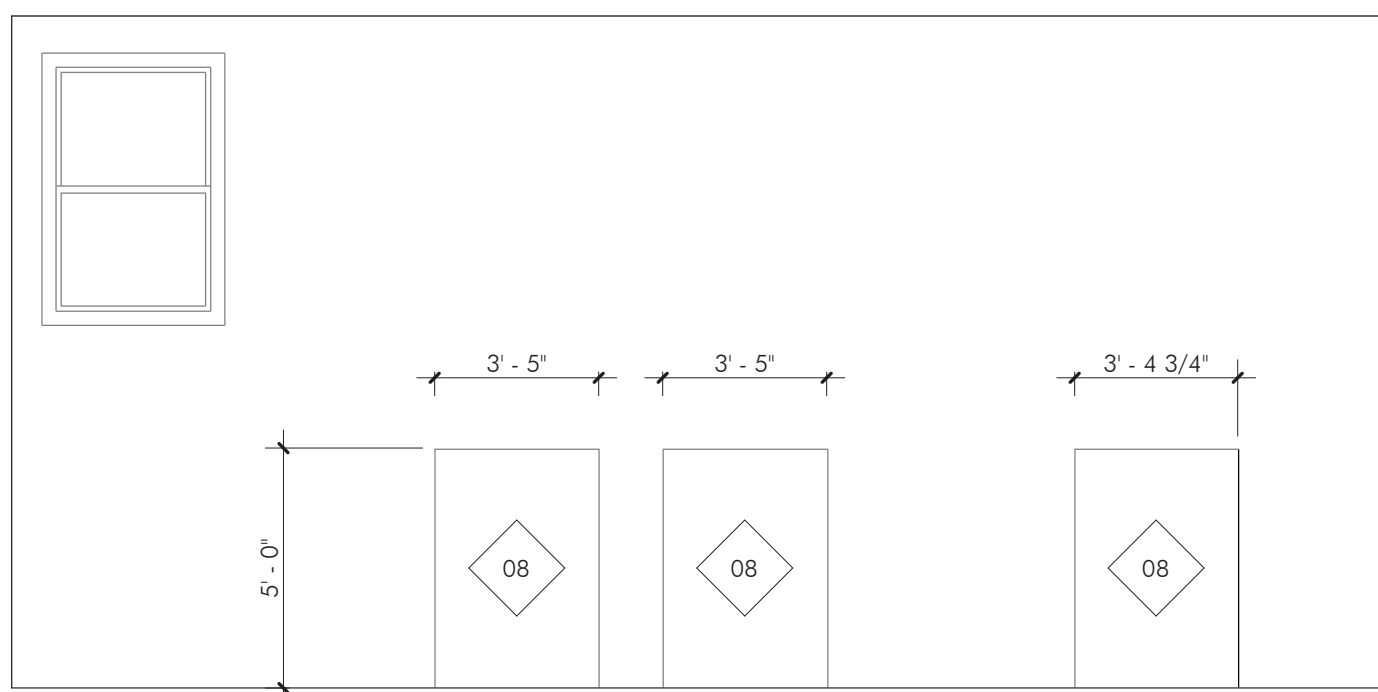
60% Legacy Grant Review

LEGEND

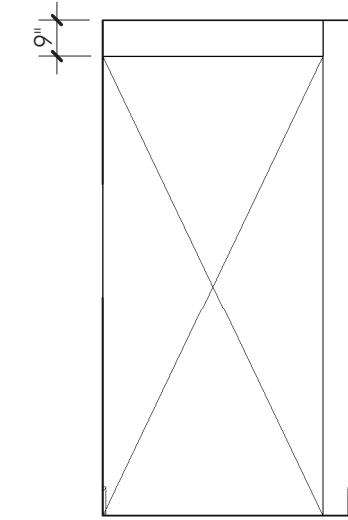
CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY Author DATE 01/22/21

ENLARGED
 RESTROOM PLANS
 AND ELEVATIONS

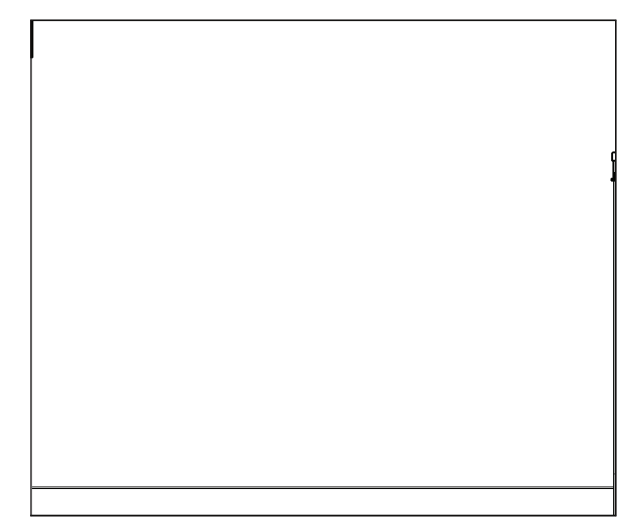
A402



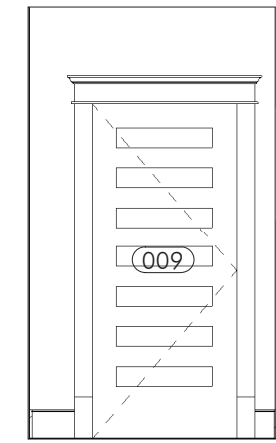
1 | 005 BOILER RM - EAST
 A403 | 1/4" = 1'-0"



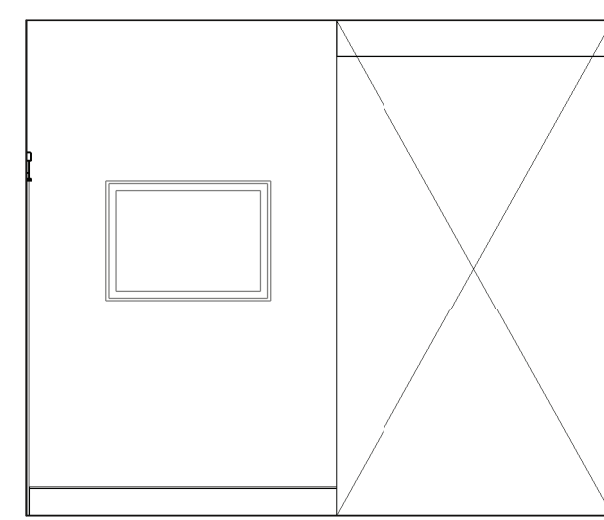
2 | 010 PASSAGE - NORTH
 A403 | 1/4" = 1'-0"



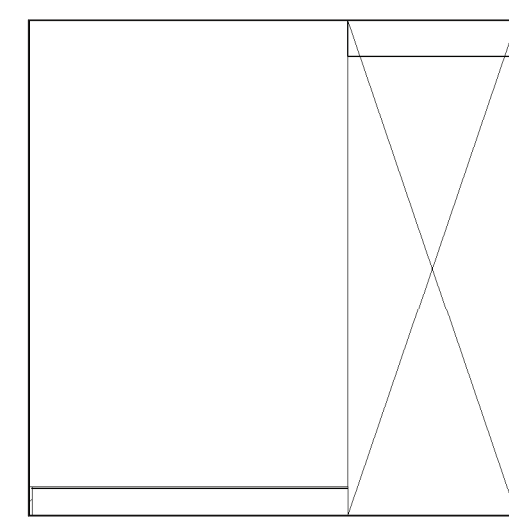
3 | 010 PASSAGE - EAST
 A403 | 1/4" = 1'-0"



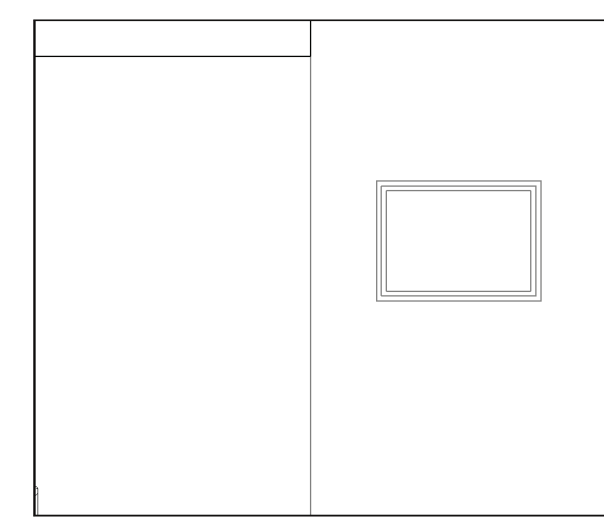
4 | 010 PASSAGE - SOUTH
 A403 | 1/4" = 1'-0"



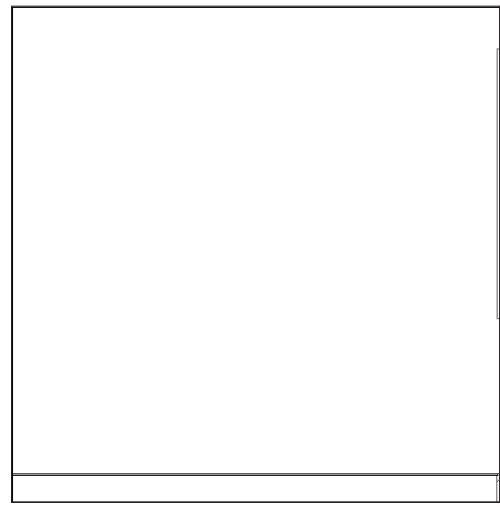
5 | 010 PASSAGE - WEST
 A403 | 1/4" = 1'-0"



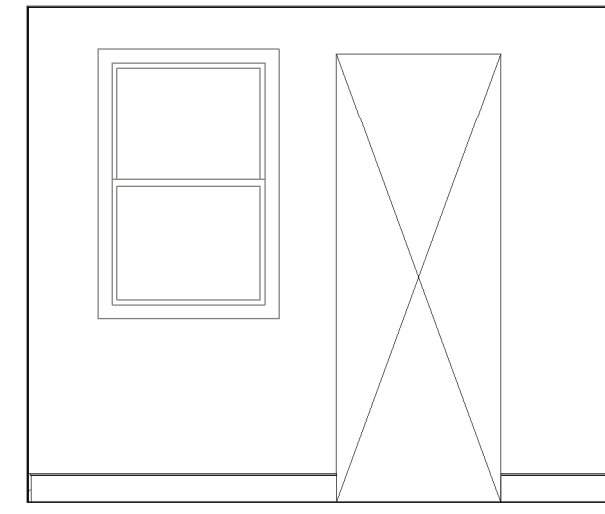
6 | 011 LOUNGE - NORTH
 A403 | 1/4" = 1'-0"



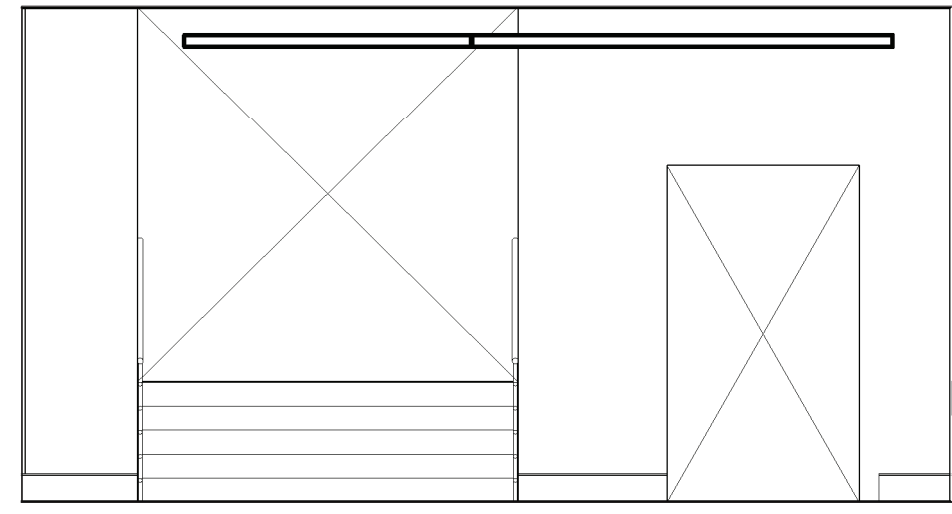
7 | 011 LOUNGE - EAST
 A403 | 1/4" = 1'-0"



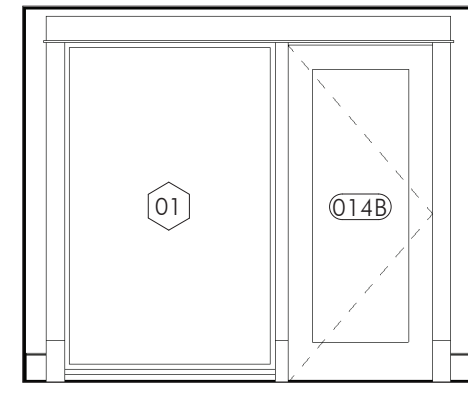
8 | 011 LOUNGE - SOUTH
 A403 | 1/4" = 1'-0"



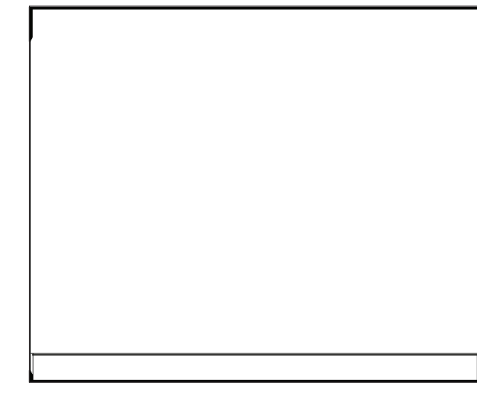
9 | 011 LOUNGE - WEST
 A403 | 1/4" = 1'-0"



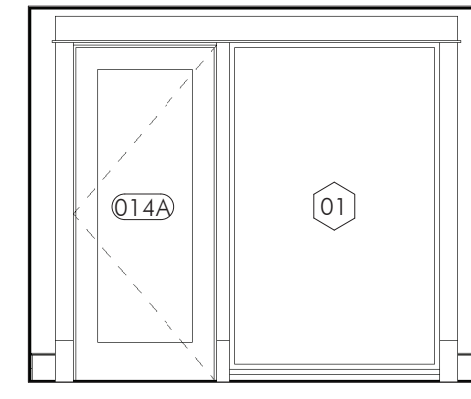
15 | 012 LOWER LOBBY - WEST
 A403 | 1/4" = 1'-0"



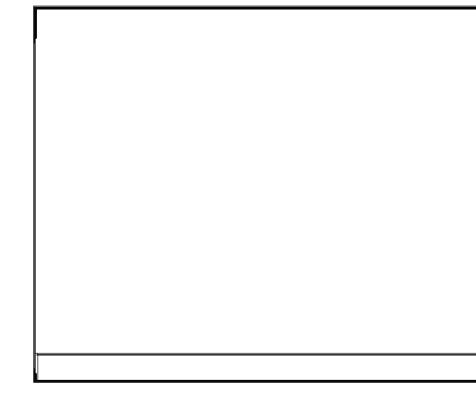
16 | 014 VESTIBULE - NORTH
 A403 | 1/4" = 1'-0"



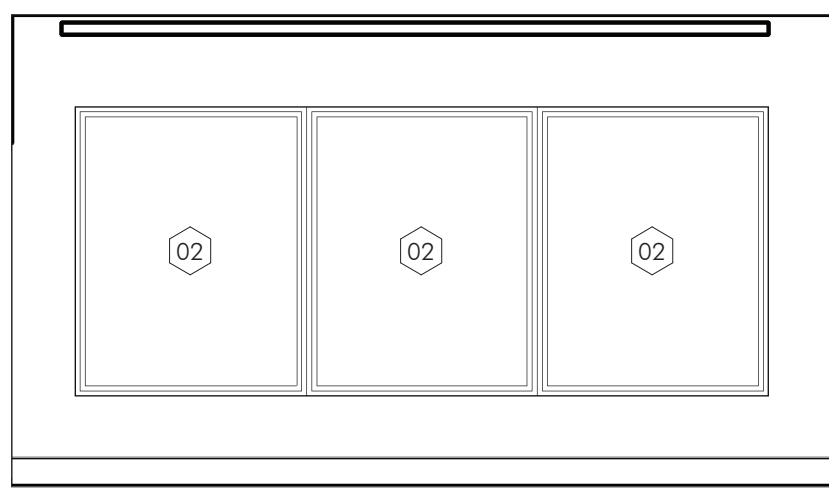
17 | 014 VESTIBULE - EAST
 A403 | 1/4" = 1'-0"



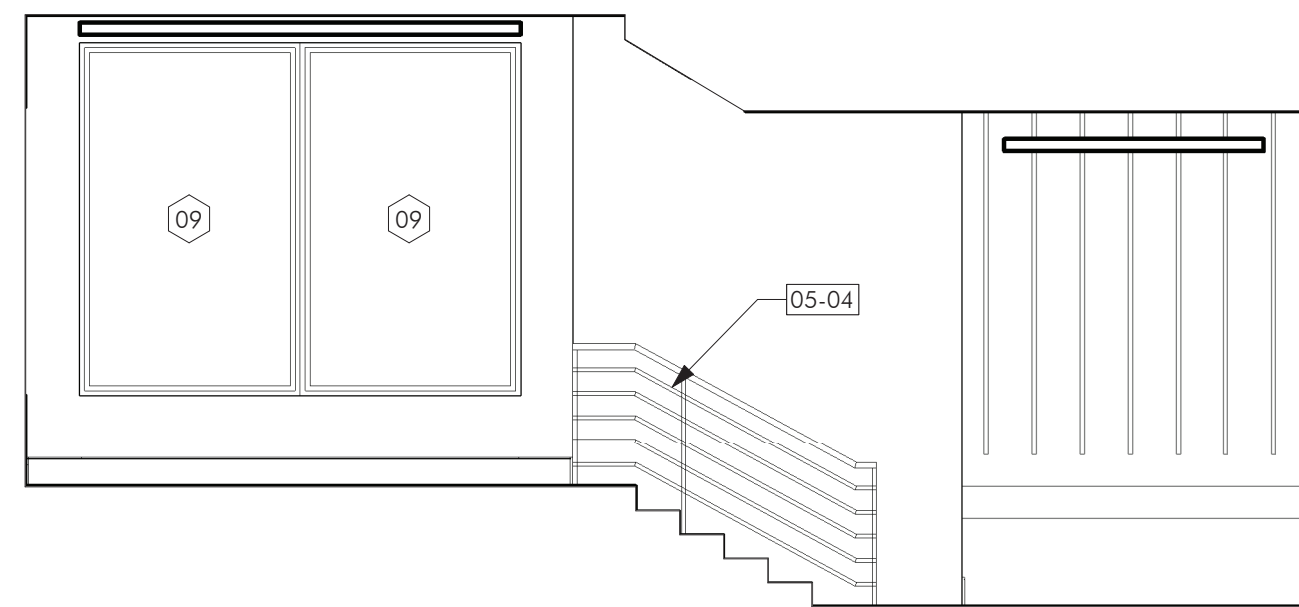
18 | 014 VESTIBULE - SOUTH
 A403 | 1/4" = 1'-0"



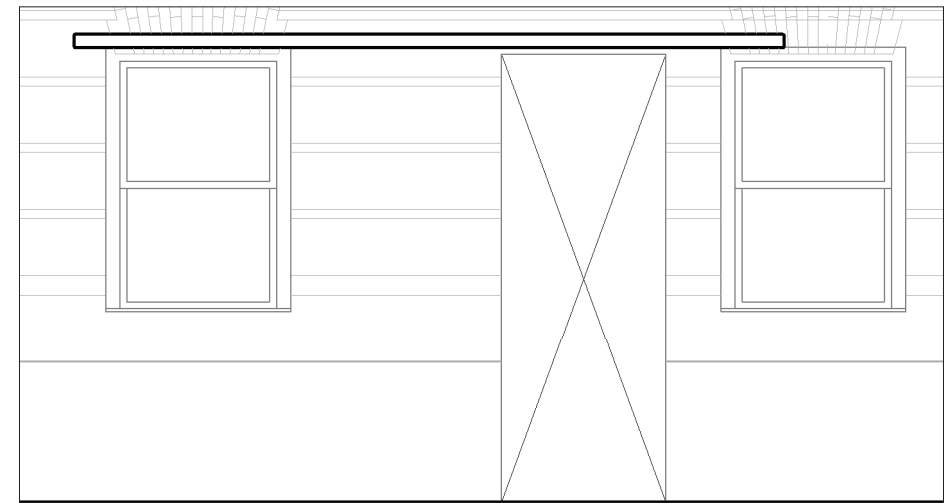
19 | 014 VESTIBULE - WEST
 A403 | 1/4" = 1'-0"



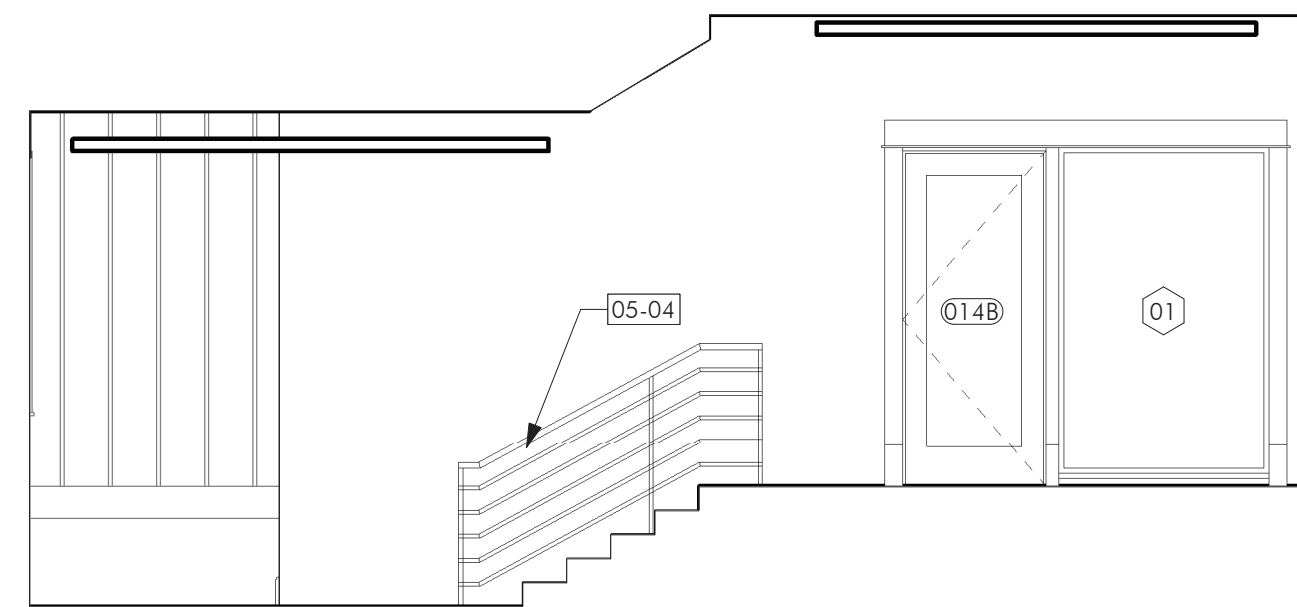
14 | 013 LOBBY - WEST
 A403 | 1/4" = 1'-0"



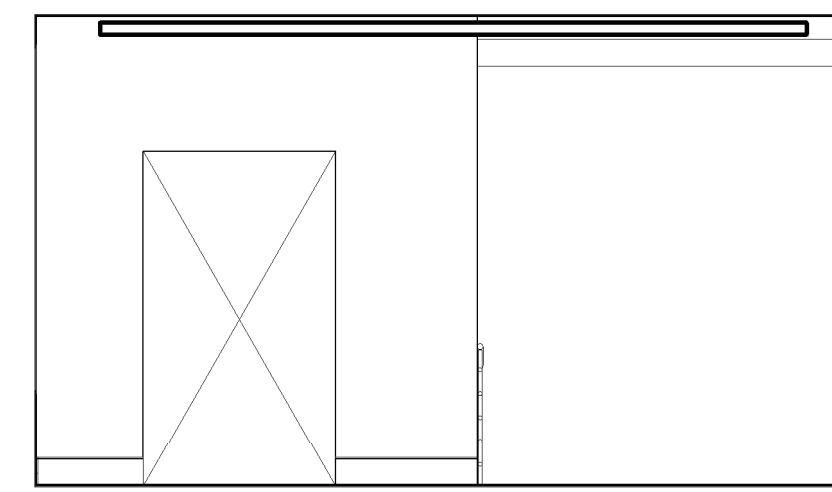
10 | 013 LOBBY & 012 LOWER LOBBY - NORTH
 A403 | 1/4" = 1'-0"



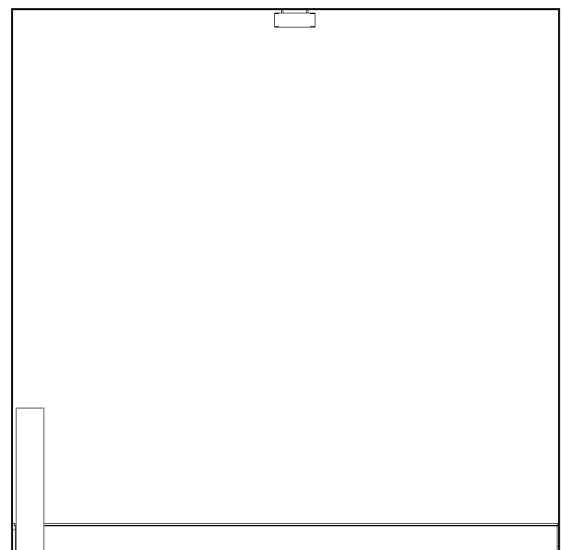
11 | 012 LOWER LOBBY - EAST
 A403 | 1/4" = 1'-0"



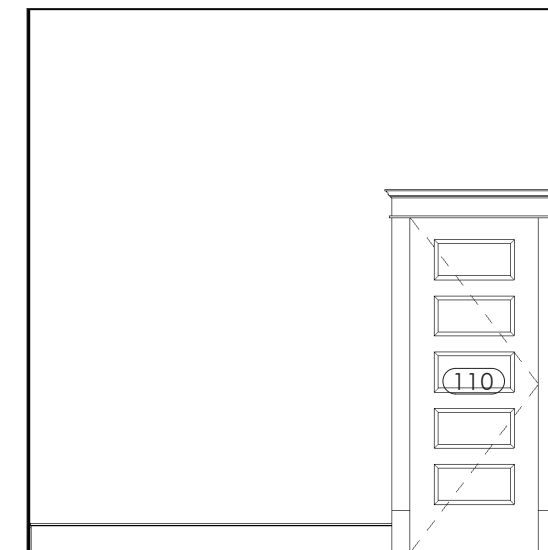
12 | 013 LOBBY & 012 LOWER LOBBY - SOUTH
 A403 | 1/4" = 1'-0"



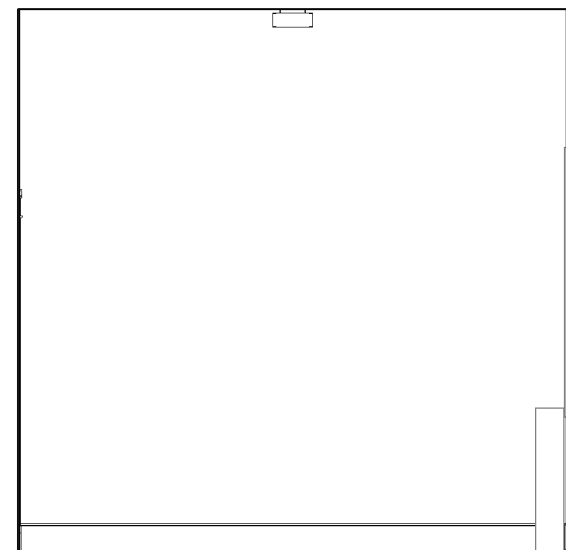
13 | 013 LOBBY - EAST
 A403 | 1/4" = 1'-0"



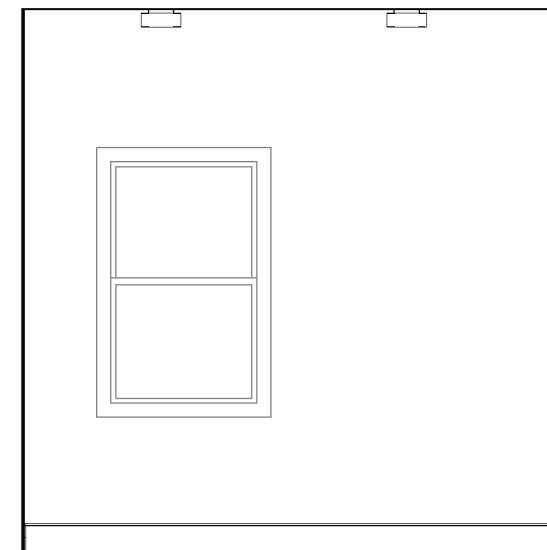
20 | 110 OFFICE - NORTH
 A403 | 1/4" = 1'-0"



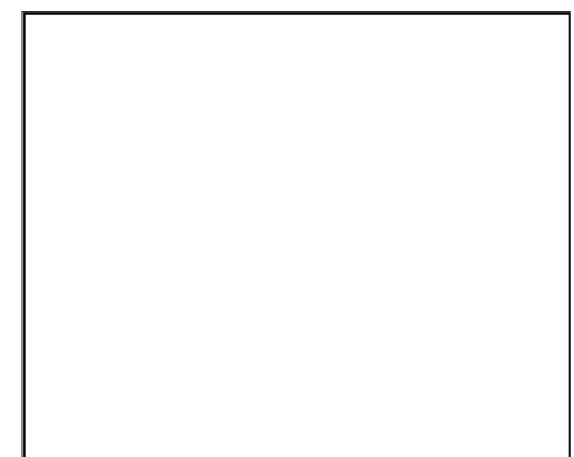
21 | 110 OFFICE - EAST
 A403 | 1/4" = 1'-0"



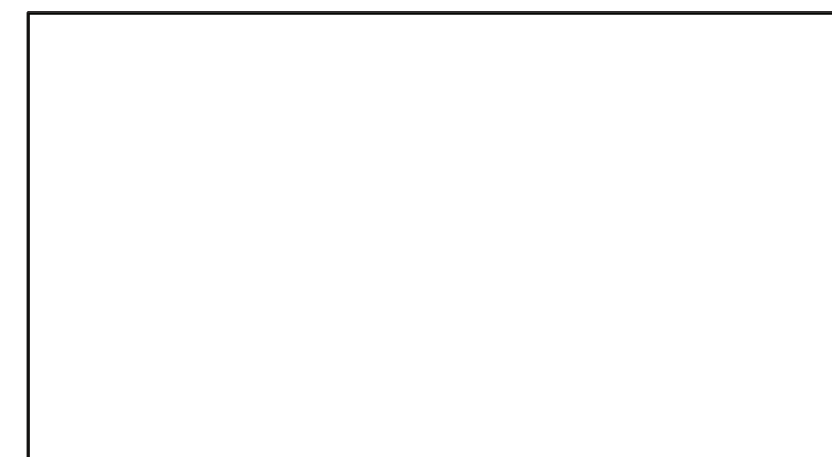
22 | 110 OFFICE - SOUTH
 A403 | 1/4" = 1'-0"



23 | 110 OFFICE - WEST
 A403 | 1/4" = 1'-0"



28 | 113 RAISED STORAGE - SOUTH
 A403 | 1/4" = 1'-0"



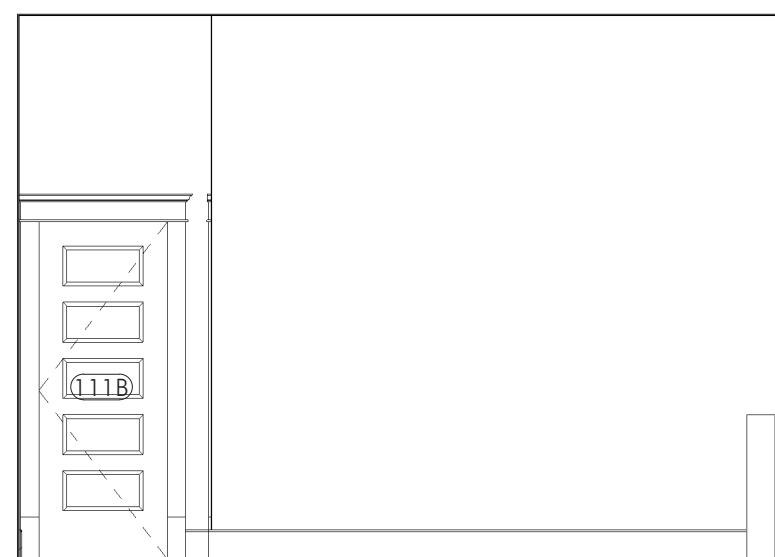
29 | 113 RAISED STORAGE - WEST
 A403 | 1/4" = 1'-0"



24 | 111 LOUNGE - NORTH
 A403 | 1/4" = 1'-0"



25 | 111 LOUNGE - EAST
 A403 | 1/4" = 1'-0"



26 | 111 LOUNGE - SOUTH
 A403 | 1/4" = 1'-0"



27 | 111 LOUNGE - WEST
 A403 | 1/4" = 1'-0"

KEYNOTES

05-04 | INSTALL HANDRAIL

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

10/17/21

REVISIONS		
No.	Description	Date

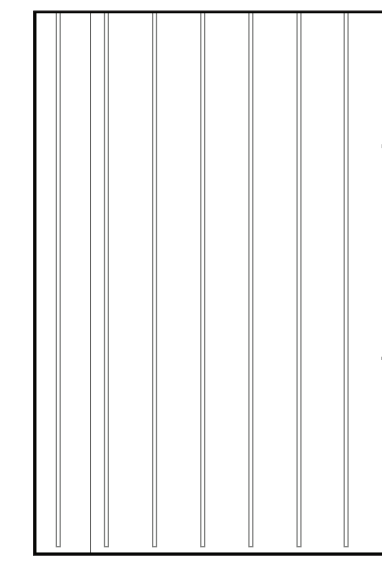
60% Legacy Grant Review

CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY: Author
 DATE: 01/17/21

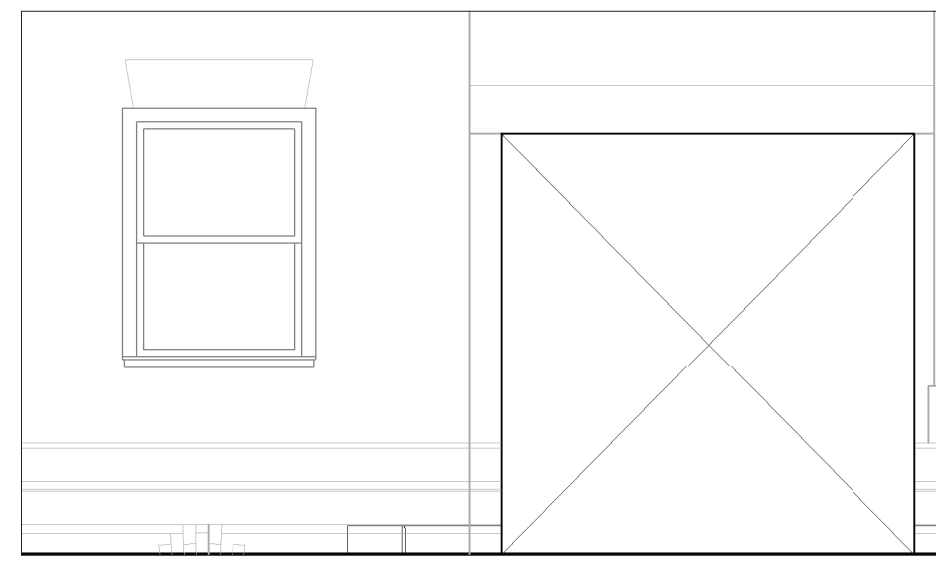
INTERIOR
 ELEVATIONS

A403

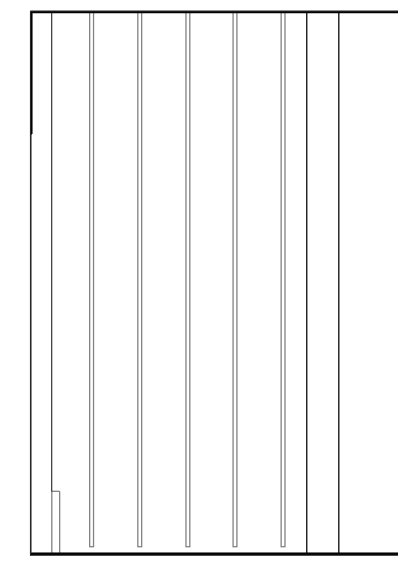
LEGEND



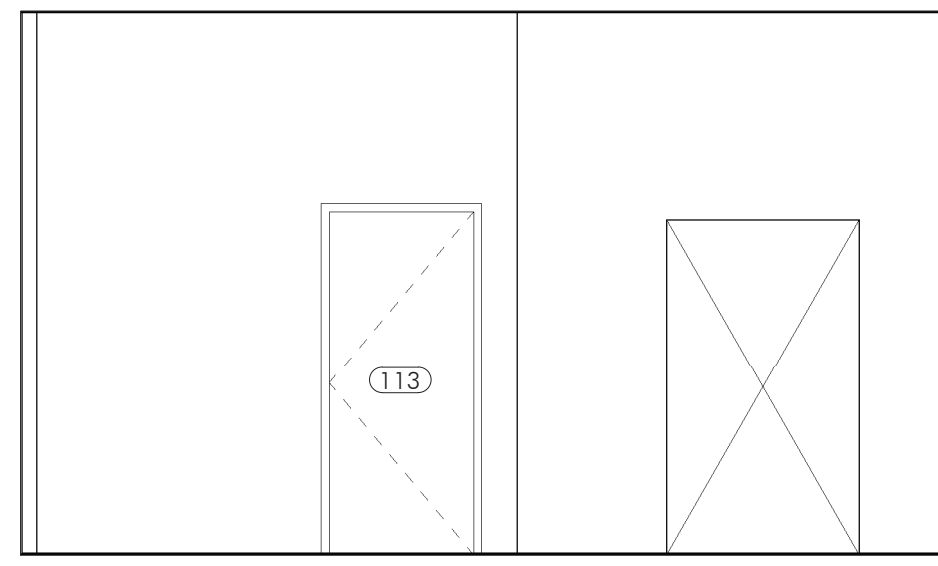
1 | 112 ELEVATOR LOBBY - NORTH
 A404 | 1/4" = 1'-0"



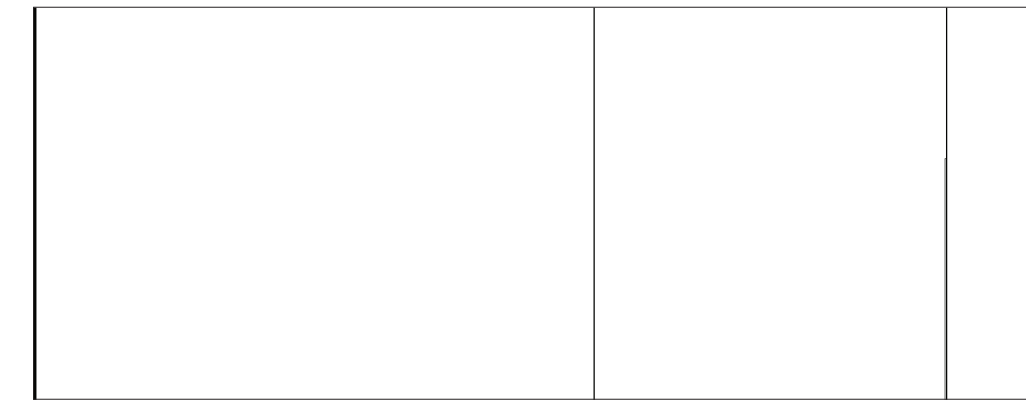
2 | 112 ELEVATOR LOBBY - EAST
 A404 | 1/4" = 1'-0"



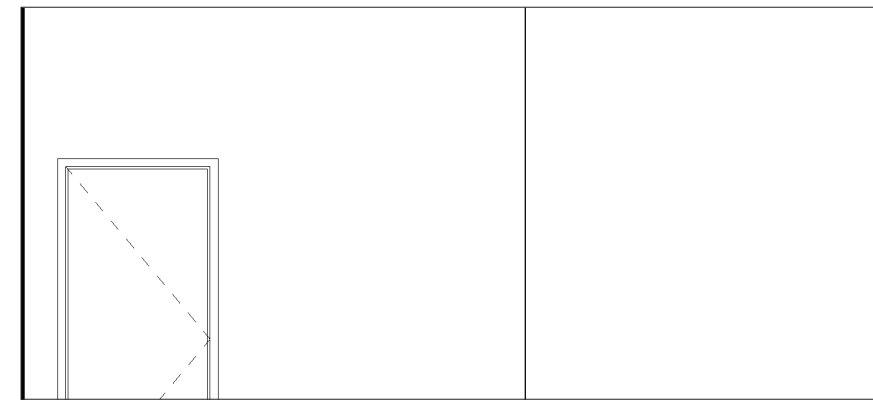
3 | 112 ELEVATOR LOBBY - SOUTH
 A404 | 1/4" = 1'-0"



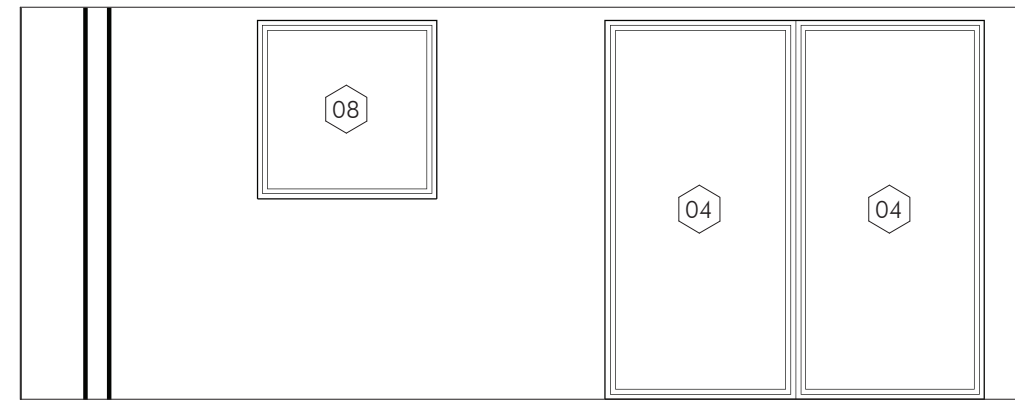
4 | 112 ELEVATOR LOBBY - WEST
 A404 | 1/4" = 1'-0"



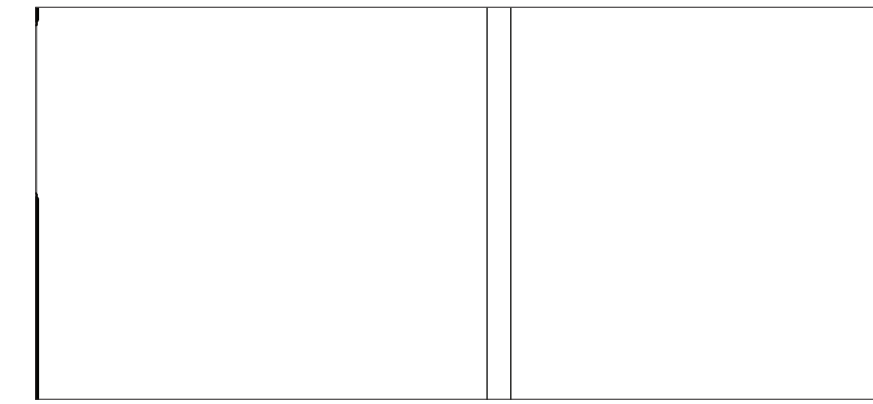
6 | 114 STORAGE - NORTH
 A404 | 1/4" = 1'-0"



5 | 114 STORAGE - EAST
 A404 | 1/4" = 1'-0"



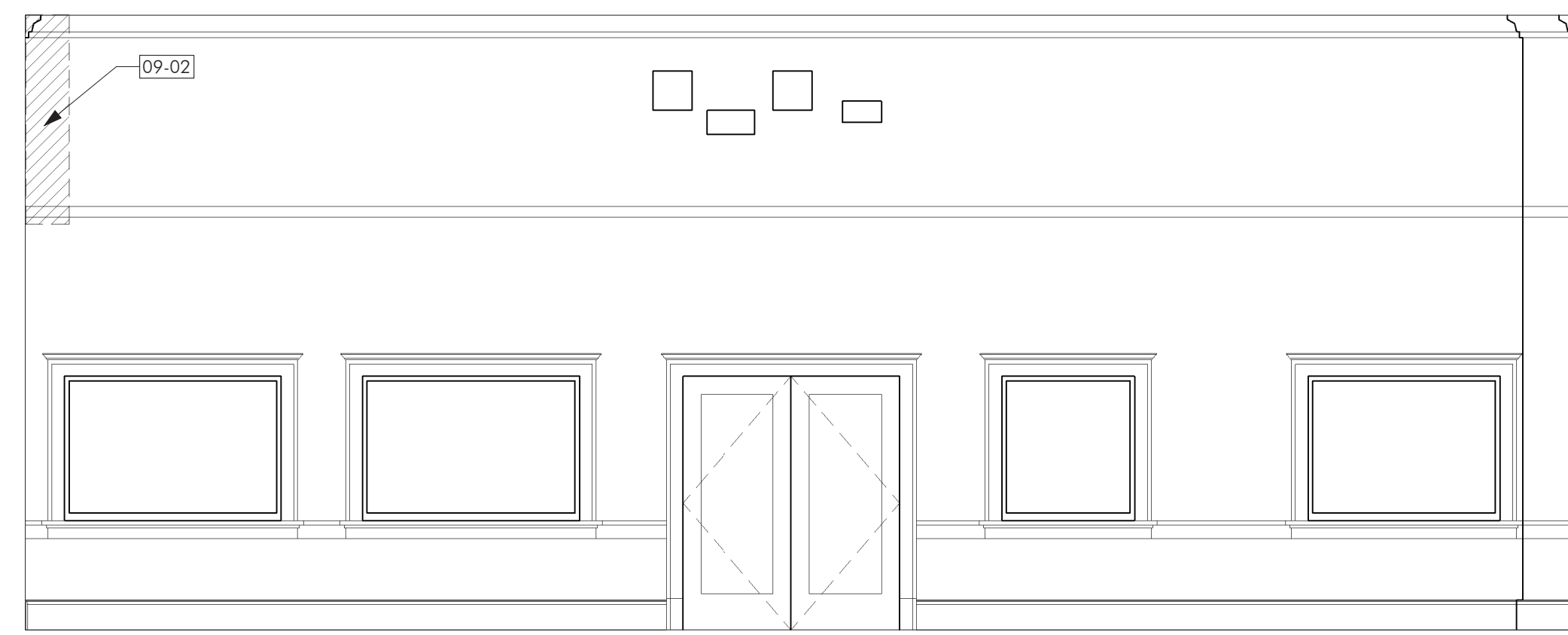
7 | 114 STORAGE - SOUTH
 A404 | 1/4" = 1'-0"



8 | 114 STORAGE - WEST
 A404 | 1/4" = 1'-0"

KEYNOTES

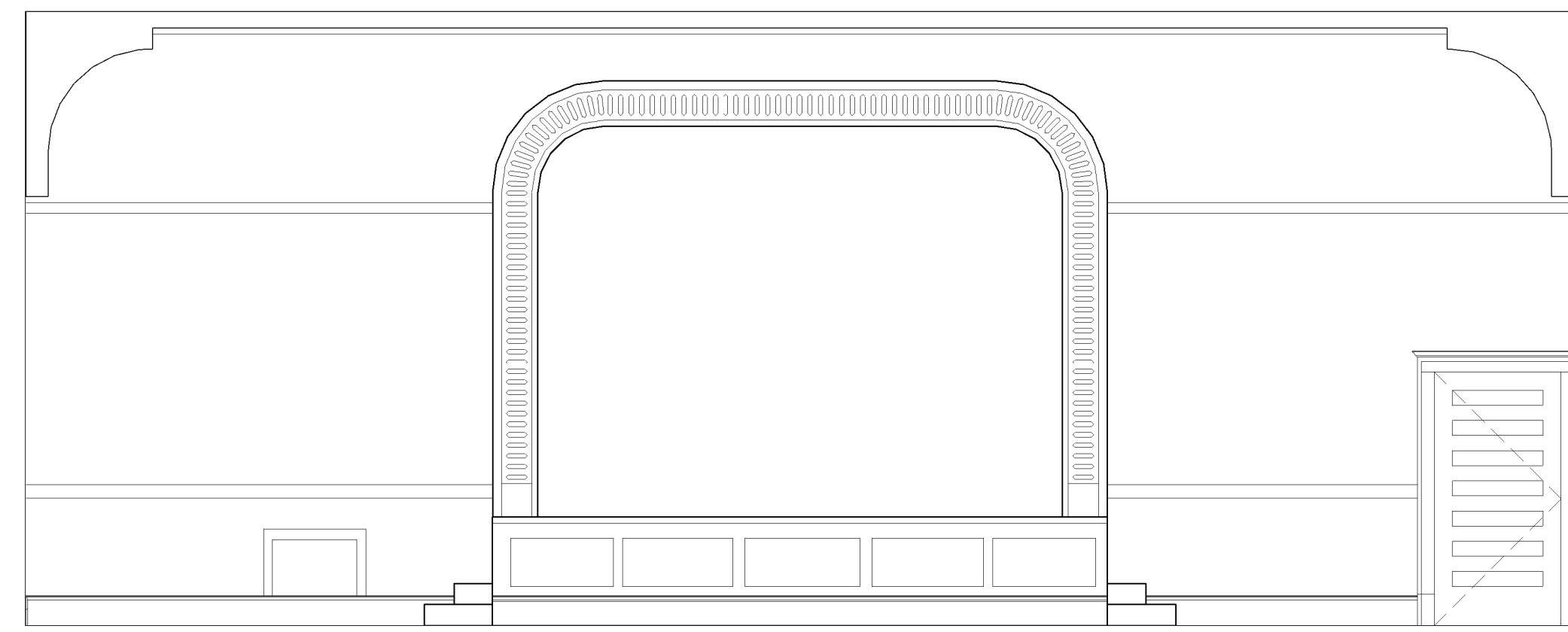
09-02	RESTORE PLASTER WALL. MATCH EXISTING TEXTURE AND FINISH PAINT.
-------	--



9 | 204 ASSEMBLY HALL - NORTH
 A404 | 1/4" = 1'-0"



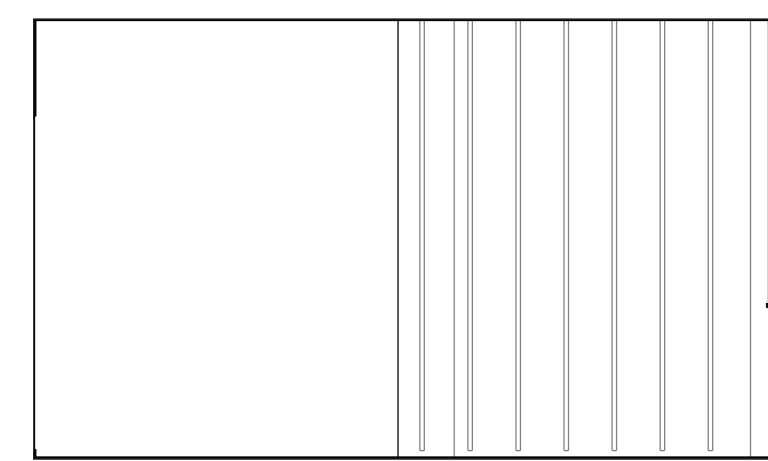
10 | 204 ASSEMBLY HALL - EAST
 A404 | 1/4" = 1'-0"



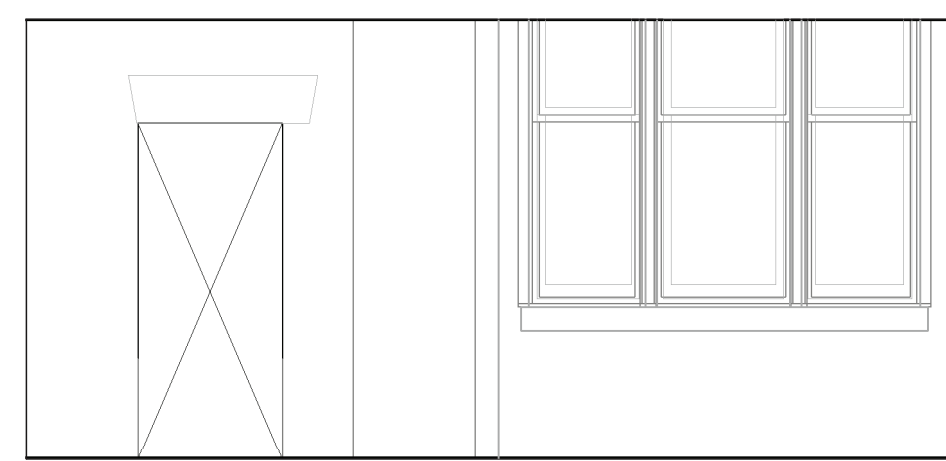
11 | 204 ASSEMBLY HALL - SOUTH
 A404 | 1/4" = 1'-0"



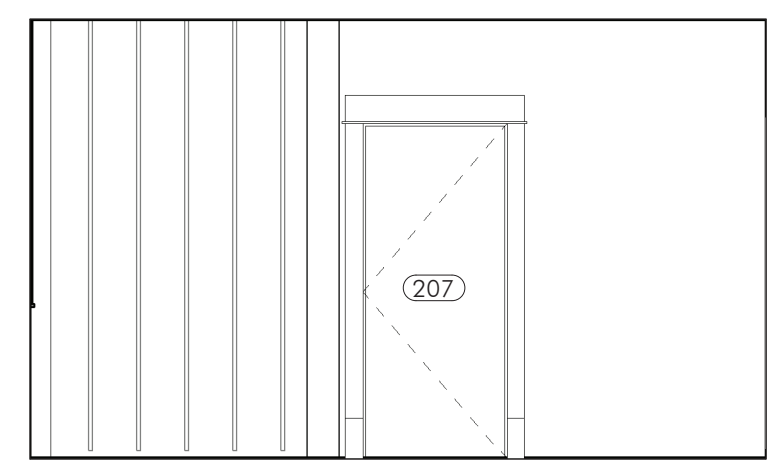
12 | 204 ASSEMBLY HALL - WEST
 A404 | 1/4" = 1'-0"



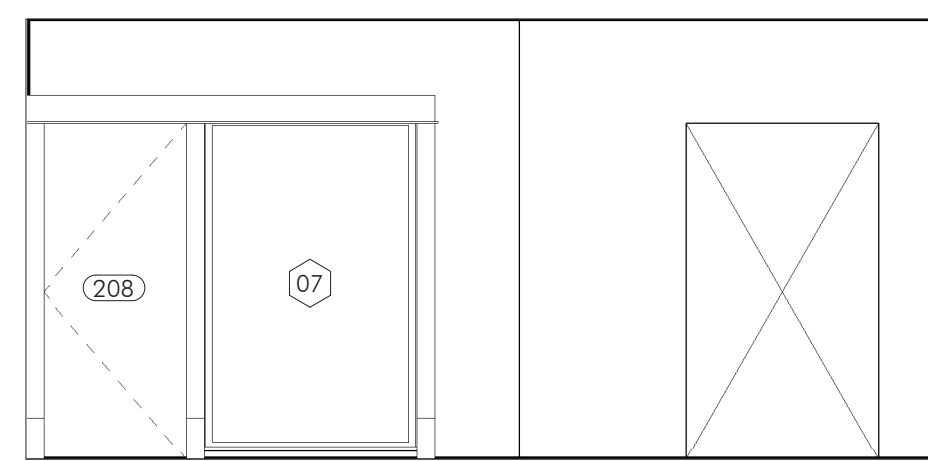
13 | 206 ELEVATOR LOBBY - NORTH
 A404 | 1/4" = 1'-0"



14 | 206 ELEVATOR LOBBY - EAST
 A404 | 1/4" = 1'-0"



15 | 206 ELEVATOR LOBBY - SOUTH
 A404 | 1/4" = 1'-0"



16 | 206 ELEVATOR LOBBY - WEST
 A404 | 1/4" = 1'-0"

LEGEND

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

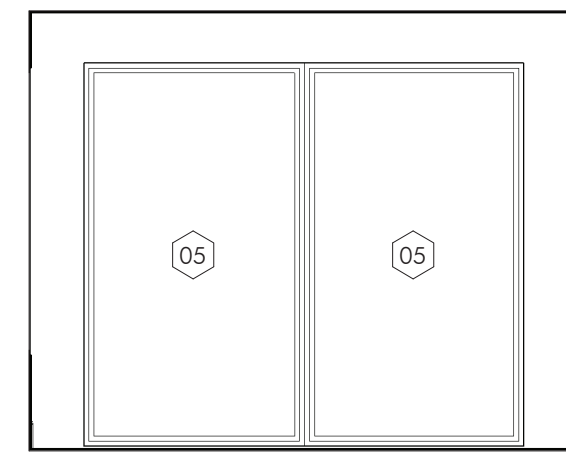
REVISIONS		
No.	Description	Draw

60% Legacy Grant Review

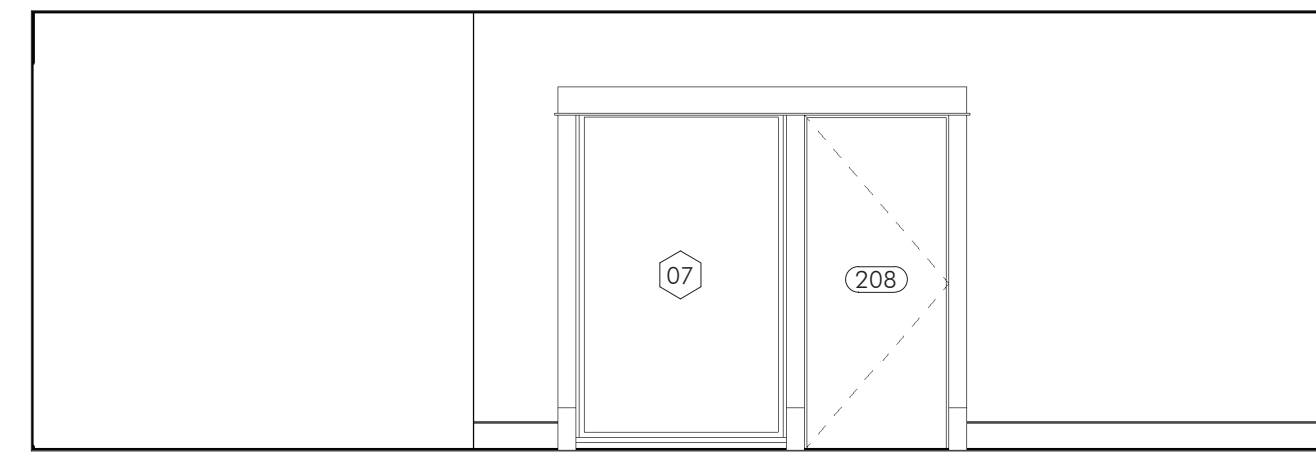
CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY Author DATE 01/17/21

INTERIOR ELEVATIONS

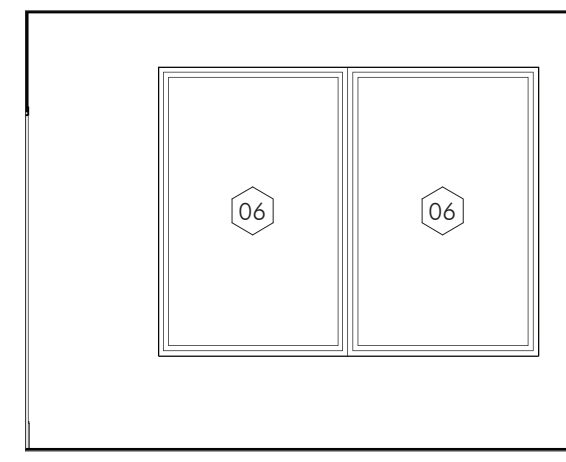
A404



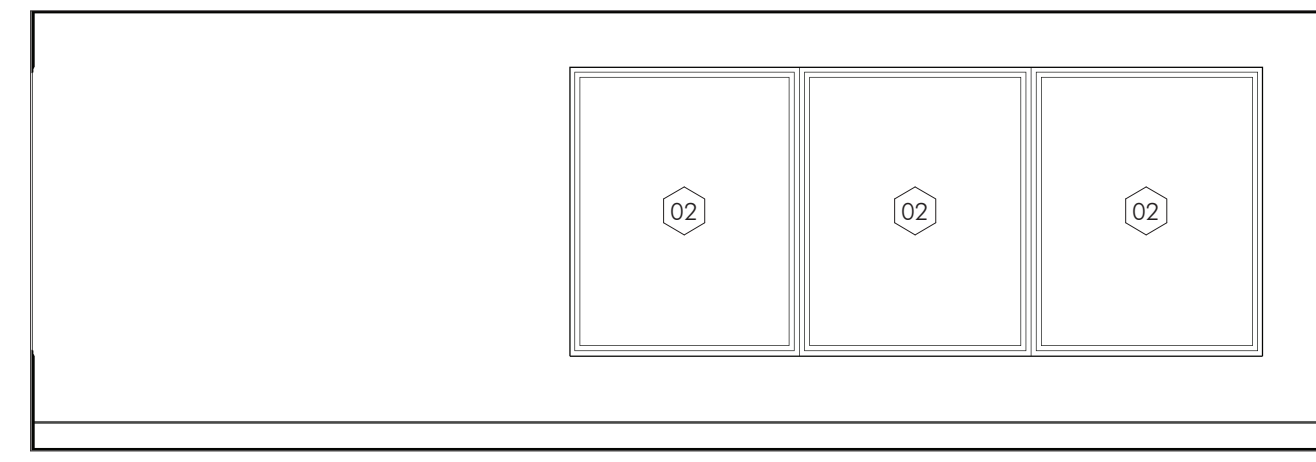
1 | 208 - NORTH
A405 | 1/4" = 1'-0"



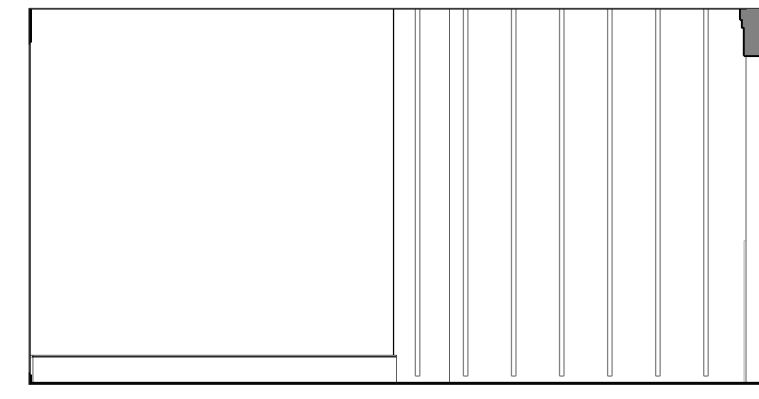
2 | 208 - EAST
A405 | 1/4" = 1'-0"



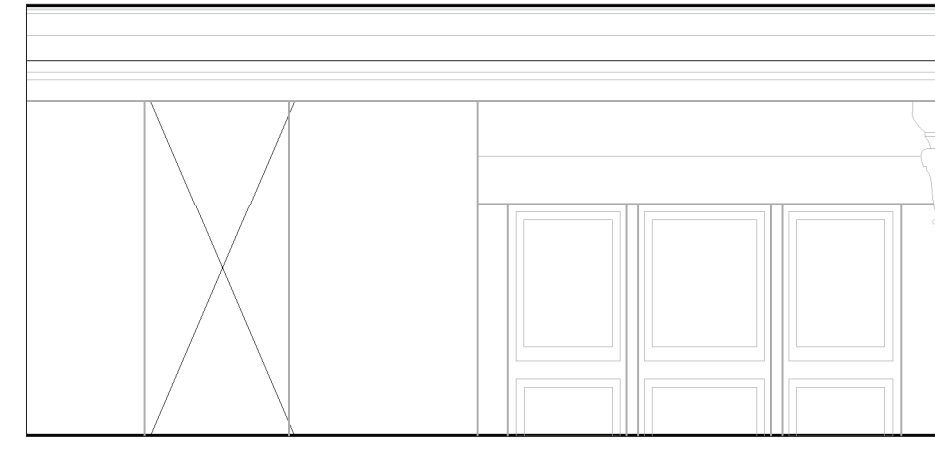
3 | 208 - SOUTH
A405 | 1/4" = 1'-0"



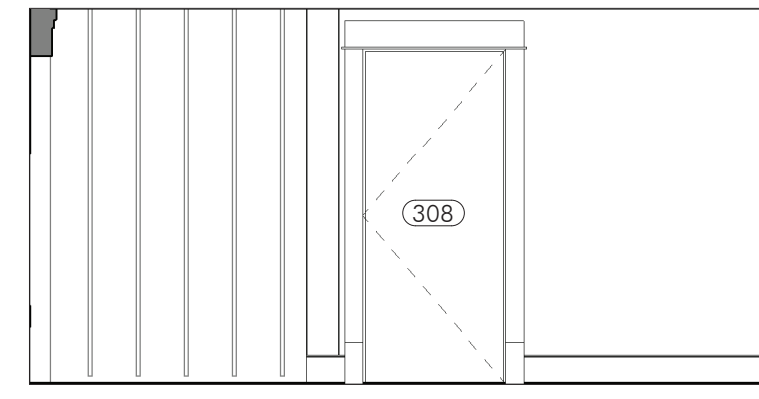
4 | 208 - WEST
A405 | 1/4" = 1'-0"



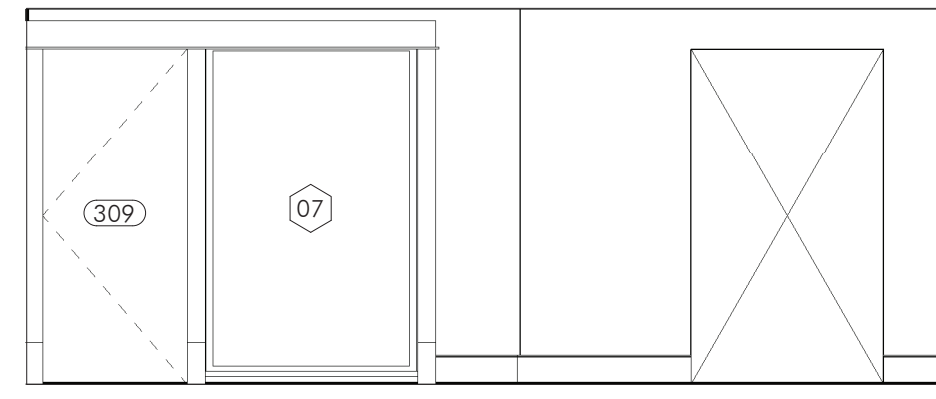
5 | 307 ELEVATOR LOBBY - NORTH
A405 | 1/4" = 1'-0"



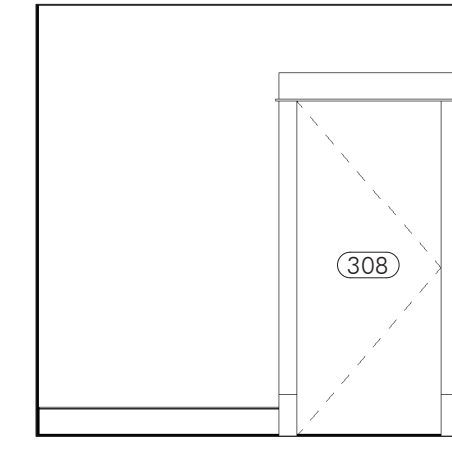
6 | 307 ELEVATOR LOBBY - EAST
A405 | 1/4" = 1'-0"



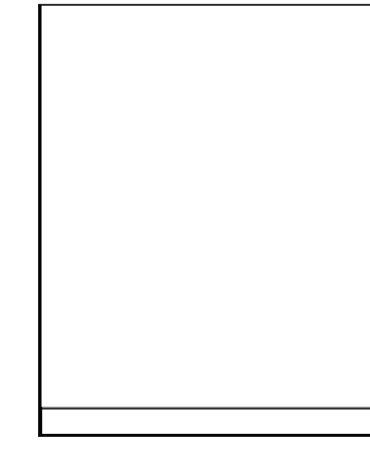
7 | 307 ELEVATOR LOBBY - SOUTH
A405 | 1/4" = 1'-0"



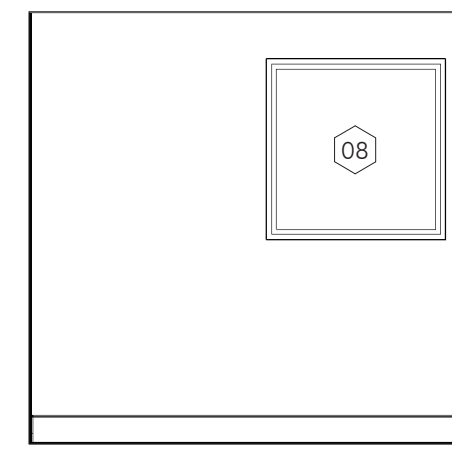
8 | 307 ELEVATOR LOBBY - WEST
A405 | 1/4" = 1'-0"



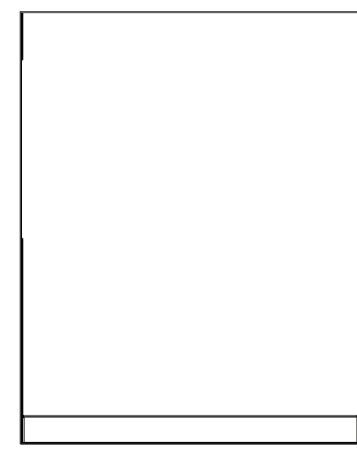
9 | 308 - NORTH
A405 | 1/4" = 1'-0"



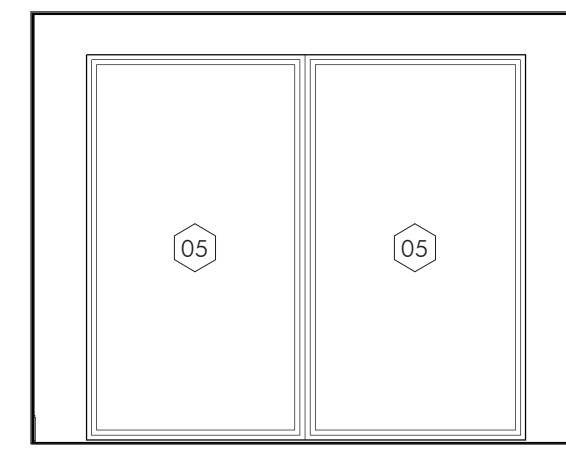
10 | 308 - EAST
A405 | 1/4" = 1'-0"



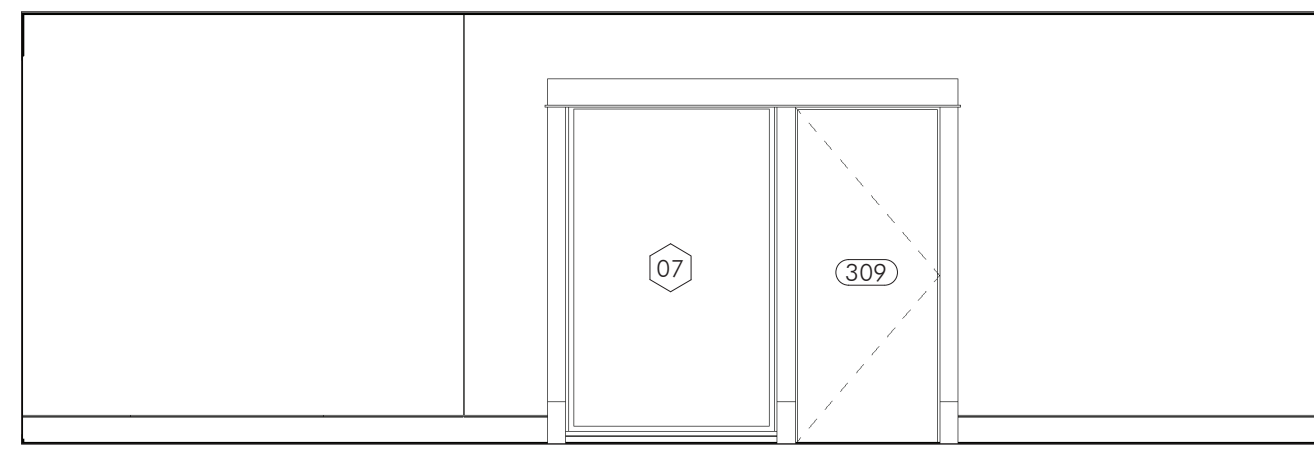
11 | 308 - SOUTH
A405 | 1/4" = 1'-0"



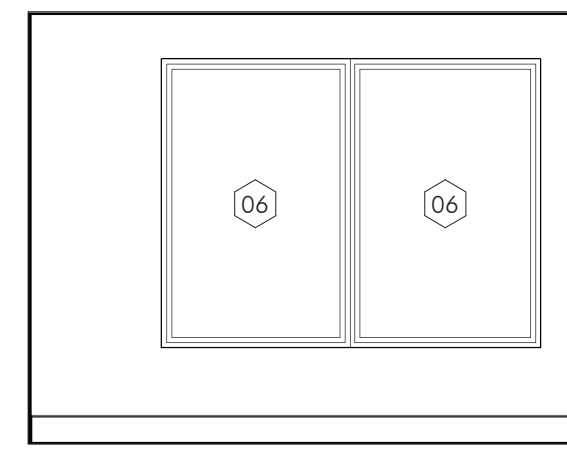
12 | 308 - WEST
A405 | 1/4" = 1'-0"



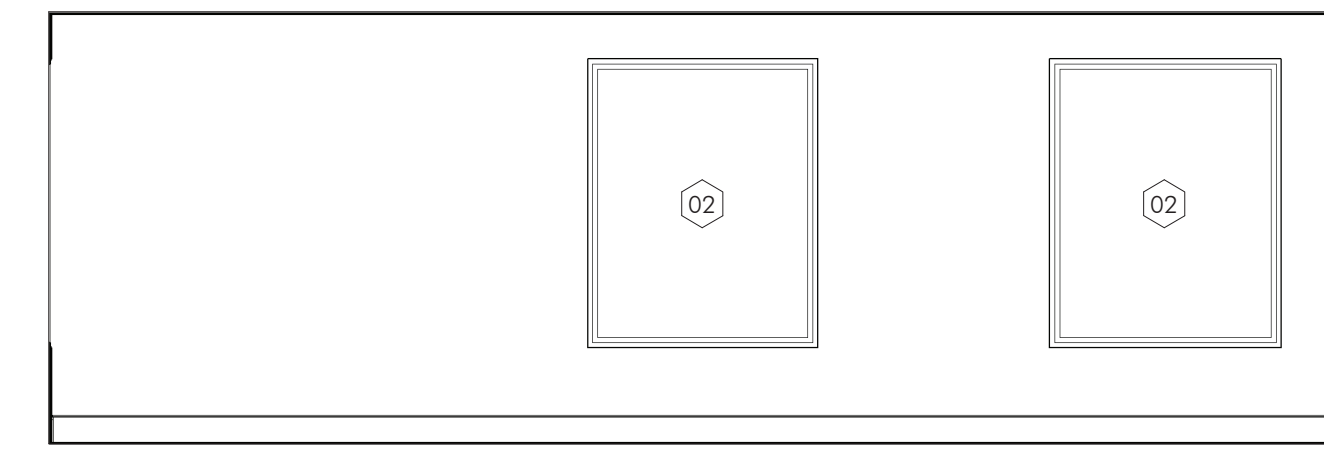
13 | 309 - NORTH
A405 | 1/4" = 1'-0"



14 | 309 - EAST
A405 | 1/4" = 1'-0"



15 | 309 - SOUTH
A405 | 1/4" = 1'-0"



16 | 309 - WEST
A405 | 1/4" = 1'-0"

KEYNOTES

LEGEND

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.
[Signature]
Todd Grasse #42014 10/09/2018

REVISIONS

No.	Description	Drawn

60% Legacy Grant Review

CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY Author DATE 01/17/21

REVISIONS

INTERIOR ELEVATIONS

A405



MACDONALD & MACK
 400 SOUTH FOURTH STREET, 210, MINNEAPOLIS, MINNESOTA, 55415
 P. 612.331.4851 F. 612.337.8843 WWW.MAMARCHITD.COM

FINISH SCHEDULE																					
ROOM NO.	ROOM NAME	FLOORS				NORTH WALL			EAST WALL			SOUTH WALL			WEST WALL			CEILING			NOTES
		CONDITION	MATERIAL	FINISH	BASE	CONDITION	MATERIALS	FINISH	CONDITION	MATERIAL	FINISH	CONDITION	MATERIALS	FINISH	CONDITION	MATERIALS	FINISH	CONDITION	MATERIALS	FINISH	
00 LOWER LEVEL																					
001	LOBBY	EXIST/NEW	CONC	VT-1	WB-1	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST/ALTER	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-2	
002	KITCHEN	EXIST/NEW	CONC	VT-1	WB-1	EXIST/NEW	PST/PGYP	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-2	
003	LOBBY (BILLIARD ROOM)	EXIST/NEW	CONC	VT-1	-	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-2	
006	HALLWAY	EXIST/NEW	CONC	VT-1	-	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-2	
008	MEN'S TOILET ROOM	EXIST/NEW	CONC	CT-2	CT-3	EXIST/NEW	PST/PGYP	CT-1, PT-3	EXIST/ALTER	PST	CT-1, P-3	EXIST/ALTER	PST	CT-1, P-3	EXIST/ALTER	PST	CT-1, P-3	EXIST	PST	PT-2	SEE ELEVS FOR WALL FINISH DIMENSIONS.
009	WOMEN'S TOILET ROOM	EXIST/NEW	CONC	CT-2	CT-3	EXIST/ALTER	PST	CT-1, PT-3	EXIST/ALTER	PST	CT-1, P-3	EXIST/ALTER	PST	CT-1, P-3	EXIST/ALTER	PST	CT-1, P-3	EXIST	PST	PT-2	SEE ELEVS FOR WALL FINISH DIMENSIONS.
010	PASSAGE	EXIST/NEW	CONC	VT-1	WB-1	EXIST/ALTER	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST/ALTER	PST	PT-1	EXIST	PST	PT-2	
011	LOUNGE	EXIST/NEW	CONC	VT-1	WB-1	EXIST/ALTER	PST	PT-1	EXIST/ALTER	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-2	
012	LOWER LOBBY	NEW	CONC	VT-2	WB-2	NEW	GYP/CW	PT-1	EXIST/ALTER	-	PT-1	NEW	GYP/CW	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-2	
013	LOBBY	NEW	CONC	VT-2	WB-2	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-2	
014	VESTIBULE	NEW	CONC	VT-2	WB-2	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-2	
015	OUTDOOR EQUIPMENT STORAGE	NEW	CONC	PT-5	RB-1	NEW	-	PT-1	NEW	-	PT-1	NEW	-	PT-1	NEW	GYP	PT-1	NEW	GYP	-	
01 FIRST FLOOR																					
103	SOCIAL HALL & DINING ROOM	EXIST	-	-	-	EXIST	-	-	EXIST	-	PT-1	EXIST	-	-	EXIST	-	-	EXIST	PST	PT-2	
108	RESTROOM	EXIST/NEW	CONC	CT-2	CT-3	NEW	PGYP	CT-1, PT-3	NEW	PGYP	CT-1, P-3	EXIST/ALTER	PGYP	CT-1, P-3	EXIST/ALTER	PST	CT-1, P-3	EXIST	PST	PT-2	SEE ELEVS FOR WALL FINISH DIMENSIONS.
109	FAMILY RESTROOM	EXIST/NEW	CONC	CT-2	CT-3	NEW	PGYP	CT-1, PT-3	NEW	PGYP	CT-1, P-3	EXIST/ALTER	PST	CT-1, P-3	EXIST/ALTER	PST	CT-1, P-3	EXIST	PST	PT-2	SEE ELEVS FOR WALL FINISH DIMENSIONS.
110	OFFICE	EXIST/ATER	CONC	CPT-1	WB-1	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-1	EXIST/ALTER	PST	PT-1	EXIST	PST	PT-2	
111	LOUNGE	EXIST/ATER	CONC	WD-1	WB-1	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST/ALTER	PST	PT-1	EXIST	PST	PT-2	
112	ELEVATOR LOBBY	NEW	CONC	WD-2	WB-2	NEW	CW	-	EXIST/ALTER	-	-	NEW	CW	-	NEW	GYP	PT-1	NEW	GYP	PT-2	
113	RAISED STORAGE	NEW	CONC	WD-2	WB-2	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-2	
114	STORAGE	NEW	CONC	WD-2	WB-2	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-2	
02 SECOND FLOOR																					
204	ASSEMBLY HALL	EXIST	-	-	-	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-1	EXIST	PST	PT-2	
206	ELEVATOR LOBBY	NEW	CONC	WD-2	WB-2	NEW	CW	-	EXIST/ALTER	-	-	NEW	CW	-	NEW	GYP	PT-1	NEW	GYP	PT-2	
207	RESTROOM	NEW	CONC	CT-2	CT-3	NEW	GYP	CT-1, PT-3	NEW	GYP	CT-1, P-3	NEW	GYP	CT-1, P-3	NEW	GYP	CT-1, P-3	NEW	GYP	PT-2	SEE ELEVS FOR WALL FINISH DIMENSIONS.
208	OFFICE OR MEETING ROOM	NEW	CONC	WD-2	WB-2	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	ACT-1	-	
03 THIRD FLOOR																					
307	ELEVATOR LOBBY	NEW	CONC	WD-2	WB-2	NEW	CW	-	EXIST/ALTER	-	-	NEW	CW	-	NEW	GYP	PT-1	NEW	GYP	PT-2	
308	STORAGE OR RESTROOM	NEW	CONC	CT-2	CT-3	NEW	GYP	CT-1, PT-3	NEW	GYP	CT-1, P-3	NEW	GYP	CT-1, P-3	NEW	GYP	CT-1, P-3	NEW	GYP	PT-2	SEE ELEVS FOR WALL FINISH DIMENSIONS.
309	STORAGE, OFFICE, OR GUEST ROOM	NEW	CONC	WD-2	WB-2	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	GYP	PT-1	NEW	ACT-1	-	

MATERIAL & FINISH SCHEDULE ABBREVIATIONS	
ACT	ACOUSTIC CEILING TILE
CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
CW	CURTAIN WALL
EXIST	EXISTING TO REMAIN
GYP	GYPSUM WALL BOARD
PGYP	PLASTER BACKER BOARD
PST	PLASTER
PT	PAINT
RB	RUBBER BASE
VT	VINYL TILE
WB	WOOD BASE TRIM
WD	WOOD FLOORING

KEYNOTES

MATERIAL SCHEDULE							
MATERIAL DESIGNATION	DESCRIPTION	MANUFACTURER	MFG. REF. NO.	COLOR	FINISH/PATTERN/SIZE	LOCATIONS	NOTES
ACOUSTIC CEILING TILE							
ACT-1	CEILING TILE						
ACT-1	CEILING TILE						
CARPET TILE							
CPT-1	CARPET TILE						
CERAMIC TILE							
CT-1	CERAMIC TILE - WALL TILE						
CT-2	CERAMIC TILE - FLOOR TILE						
CT-3	CERAMIC TILE - BASE COVE						
GROUT							
GR-1	GROUT - FLOOR						
GR-2	GROUT						
PAINT							
PT-1	PAINT - WALLS						
PT-2	PAINT - CEILINGS						
PT-3	PAINT						
PT-4	PAINT						
PT-5	CONCRETE SEALER						
RUBBER BASE							
RB-1	RUBBER BASE						
WOOD BASE TRIM							
WB-1	WOOD BASE TRIM - REPAIR EXISTING						
WB-2	WOOD BASE TRIM - NEW						
WOOD FLOORING							
WD-1	WOOD FLOORING						
WD-2	WOOD FLOORING						

WINDOW SCHEDULE										
ID	QTY	WIDTH	HEIGHT	FRAME MATERIAL	FRAME FINISH	JAMB TYPE	JAMB HEAD TYPE	GLAZING TYPE	SILL TYPE	NOTES
00 LOWER LEVEL										
10	8	0' - 0"	0' - 0"							
00a LOWER LEVEL ADDITION										
01	2	4' - 7"	7' - 0"							
02	3	4' - 9 3/4"	6' - 0"							
09	2	4' - 7"	7' - 4"							
01 FIRST FLOOR										
04	2	3' - 11 1/2"	7' - 11"							
08	1	3' - 9"	3' - 9"							
01c RAISED STORAGE										
09	2	4' - 7"	7' - 4"							
02 SECOND FLOOR										
02	3	4' - 9 3/4"	6' - 0"							
05	2	4' - 7"	8' - 0"							
06	2	3' - 11 1/2"	6' - 0"							
07	1	4' - 6"	7' - 0"							
08	1	3' - 9"	3' - 9"							
03 THIRD FLOOR										
02	2	4' - 9 3/4"	6' - 0"							
05	2	4' - 7"	8' - 0"							
06	2	3' - 11 1/2"	6' - 0"							
07	1	4' - 6"	7' - 0"							
08	1	3' - 9"	3' - 9"							

DOOR SCHEDULE																	
ID NO.	CONDITION	TYPE	DOOR				FRAME AND CASING					FIRE RATING (MINUTES)	GLAZING	HARDWARE SET NO.	NOTES		
			MATERIAL	FINISH	WIDTH	HEIGHT	THICKNESS	CONDITION	MATERIAL	CASING TYPE	FINISH					DETAILS	
																HEAD	JAMB
00 LOWER LEVEL																	
008	NEW	SINGLE	WD	STAIN	3' - 0"	7' - 0"	0' - 1 1/2"	NEW	WD								
009	NEW	SINGLE	WD	STAIN	3' - 0"	7' - 0"	0' - 1 1/2"	EXIST	WD							STAIN - TOUCH-UP	
00a LOWER LEVEL ADDITION																	
014A	NEW	EXTERIOR - SINGLE	MTL/GL	PT-6	3' - 0"	7' - 0"	0' - 1 3/4"	NEW	MTL							FULL	
014B	NEW	EXTERIOR - SINGLE	MTL/GL	PT-6	3' - 0"	7' - 0"	0' - 1 3/4"	NEW	MTL							FULL	
015	NEW	EXTERIOR - SINGLE	MTL/GL	PT-6	3' - 0"	7' - 0"	0' - 1 1/2"	NEW	MTL							FULL	
01 FIRST FLOOR																	
101C	NEW	SINGLE	WD	STAIN	3' - 0"	7' - 0"	0' - 1 1/2"	NEW	WD							-	
108	NEW	SINGLE	WD	STAIN	2' - 8"	7' - 0"	0' - 1 1/2"	NEW	WD							-	
109	NEW	SINGLE	WD	STAIN	2' - 8"	7' - 0"	0' - 1 1/2"	NEW	WD							-	
110	NEW	SINGLE	WD	STAIN	2' - 8"	7' - 0"	0' - 1 1/2"	NEW	WD							-	
111A	NEW	SINGLE	WD	STAIN	3' - 0"	7' - 0"	0' - 1 1/2"	NEW	WD							-	
111B	NEW	SINGLE	WD	STAIN	2' - 8"	7' - 0"	0' - 1 1/2"	EXIST	WD							STAIN - TOUCH-UP	
113	NEW	SINGLE	WD	STAIN	3' - 0"	7' - 2"	0' - 1 3/4"	NEW	WD							STAIN	
02 SECOND FLOOR																	
207	NEW	SINGLE	WD	STAIN	3' - 0"	7' - 0"	0' - 1 1/2"	NEW	WD							-	
208	NEW	SINGLE	WD	STAIN	3' - 0"	7' - 0"	0' - 1 1/2"	NEW	WD							-	
03 THIRD FLOOR																	
308	NEW	SINGLE	WD	STAIN	3' - 0"	7' - 0"	0' - 1 1/2"	NEW	WD							-	
309	NEW	SINGLE	WD	STAIN	3' - 0"	7' - 0"	0' - 1 1/2"	NEW	WD							-	

LEGEND

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Build Green #42014 10/09/2018

REVISIONS

No.	Description	Date

60% Legacy Grant Review

CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY Author
 DATE 09/18/20

SCHEDULES

A601

STRUCTURAL NOTES

Unless noted otherwise on the plans and/or in the details, these notes shall apply. If there are discrepancies between the plans/details and these notes, the contractor must conform to the more stringent requirements, unless clarified with the Structural Engineer of Record (SER) prior to work.

MATERIAL STRENGTHS

Structural Steel
HSS Rectangular and Square - ASTM A500 Gr. B, Fy = 46 ksi
HSS Round - ASTM A500 Gr. B, Fy = 42 ksi
Pipe - ASTM A53 Gr. B, Fy = 35 ksi
W and WT shapes - ASTM A992, Fy = 50 ksi
Misc. structural steel - ASTM A36, Fy = 36 ksi

Structural Steel Fasteners

Connection bolts - ASTM F3125, Fu = 120 ksi, Type 1
Anchor rods - ASTM F1554, Gr. 36, Fy = 36 ksi
Threaded rods - ASTM A36, Fy = 36 ksi

Cold Formed Structural Steel - ASTM C955 and A1003

Fy = 33 ksi (43 mil and thinner) - Grade 33 Type H
Fy = 50 ksi (54 mil and thicker) - Grade 50 Type H

Reinforcing Steel

Deformed Bars - ASTM A615, Gr. 60, Fy = 60 ksi
Fabric - ASTM A185, Fy = 70 ksi
Masonry Joint Reinforcing - ASTM A951, Fy = 70 ksi

Concrete

F'c = compressive strength at 28 days
4,000 psi unless noted otherwise
5,000 psi for exterior slabs and other elements exposed to freeze/thaw
Mix shall meet with 3/4" max aggregate size. Refer to ACI 318 for other aggregate sizes.
Slump at point of discharge shall be as follows:

DESIGN LOADS

Risk Category II

Roof

Dead load 20 psf
Live load 20 psf
Snow load
Ground snow, pg 50 psf
Flat roof snow load, pi 39 psf

Roof top units

Cu = 1.0, Cc = 1.1, Is = 1.0, Ci = 1.0
See mechanical & notes below

Rain intensity, i

3.25 in/hr

Flors

Dead load 55 psf
Office areas 50 psf / 2,000 lbs point load
Partitions 15 psf
Lobbies & first floor corridors 100 psf

Wind

Vmax 110 mph (3 second gust)
V30 85 mph (3 second gust)
Exposure Category B
Internal pressure coefficient (Gci) +/- 0.18
Component & Cladding design pressure +/- 30 psf (Service Load, Field)

DESIGN CODES

Minnesota Building Code (2020)
Minnesota Conservation Code for Existing Buildings (2020)

REFERENCE CODES

International Building Code (IBC-2018)
International Existing Building Code (IEBC-2018)
American Society of Civil Engineers/Structural Engineering Institute (ASSE/SEI 7-16)
American Institute of Steel Construction Manual (AISC 360-16)
North American Specification for Design of Cold-Formed Steel Structural Members (AIS1 S100-16)
Steel Deck Institute (SDI/AISI RD-2017, NC-2017, C-2017, QA/QC-2017)
American Welding Society - Structural Welding Code - Steel (AWS D11.20, D1.3-18, D1.4-18)
American Concrete Institute - Building Code Requirements for Structural Concrete - (ACI 318-14)
The Masonry Society - Building Code and Specification for Masonry Structures - (TMS 402/602-16)
American Concrete Institute - Specification for Tolerances for Concrete Construction and Materials (ACI 117-10)

GENERAL NOTES

The contractor is solely responsible for site safety including all temporary precautionary measures and safety programs. Site observation visits by the SER do not include review of the contractor's safety precautions.

SUBMITTALS

Submit all submittals for all materials and/or products in a given system at one time.
The contractor shall review and stamp all submittals prior to the SER's review.
Stamp will include: Signature or initials certifying that all materials and/or products are in accordance with the requirements of the design documents.
Allow ten (10) business days for review and response for each submittal for review excluding delivery time to and from the Contractor.
When revised for resubmission, identify all changes made since previous submission.

THICKENED SLAB ON GRADE

Where no footing or foundation wall is shown under a masonry wall, slabs under such walls must include a 16" wide x 8" deep thickened slab with 2 #4 continuous bottom bars, placed 3" clear of bottom.

CONCRETE TOPPING

All topping slabs must be reinforced with 3.0 pounds per cubic yard of polypropylene macro fiber. Do not cut control joints in topping slabs unless specifically directed.

CONCRETE COVER ON REINFORCING

Footings 3" clear, bottom and sides
#5 and smaller: 1-1/2" clear, outside face and 1" clear inside face
#6 and larger: 2" clear, outside face and 1" clear inside face
Columns and Beams 1-1/2" clear to ties or stirrups
Center reinforcing slab on grade
Slabs on Metal Deck Center reinforcing in portion of slab above metal deck

MASONRY VENEER

Masonry veneer is assumed to be a single 4" nominal wythe. Anchor veneer to masonry backup with loop-and-pintle ties integrated with horizontal joint reinforcing at 16" OC vertically.
Anchor veneer to wood or cold formed steel stud backup framing with adjustable pintle-type anchors for every 2.67 square feet of veneer (16" OC vertically and 24" OC horizontally maximum).

COORDINATION - ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL ITEMS

Contractor shall verify all dimensions and conditions on site with the plans before construction begins. All discrepancies must be reported immediately.
Location, dimensions and details of recesses, depressions, openings, and equipment supports must be verified by reference to architectural, civil, electrical, and mechanical drawings.

EXISTING CONDITIONS

Contractor shall verify all dimensions, elevations, and details of the existing structure where they affect the new structural work. Notify architect and SER if there are any deviations from the contract documents.
Contractor shall field verify dimensions and elevations prior to fabrication of structural members.
Remove and replace existing architectural, electrical, mechanical, structural, civil, or miscellaneous items as necessary.

SHORING

General Contractor shall be responsible for temporary shoring of the existing construction until the new construction is in place and properly anchored.
Shoring loads for existing structure not shown in documents to be determined by an engineer licensed in the state in which the project is located.
Shoring must be designed and the final design must be submitted to SER per Submittal Section for review.

TEMPORARY BRACING

All structural members are designed for in-place loads. Contractor is responsible for bracing, without overstraining, all structural elements as required at all stages of construction until completion of this project. Provide temporary lateral support for all walls until adequately braced by the permanent structure. Provide required temporary bracing for structural steel until permanent bracing and walls are in place.

ROOF TOP EQUIPMENT/OPENINGS

Verify size and location of all openings with architectural and mechanical drawings.
Openings in floor and roof not shown on structural drawings must be placed between structural members.
The contractor shall provide sleeves through concrete slabs, joists, and beams for all plumbing. Spread reinforcing as required to provide concrete cover for reinforcing.
Openings in steel deck between structural members shall have an 13 x 3 x 1/4 each side connected to structural members, up to a maximum span of 5'-0" without prior approval.
For any mechanical equipment not shown, the total weight must not exceed 200 lbs without prior approval of the SER.
Provide mechanical unit locations, sizes, and weights to the SER and joist/truss supplier. Do not place multiple roof top units on the same joists without prior approval by the SER.
Provide photovoltaic system layout, including ballast loads and/or type, size and spacing of fasteners to structure.

GENERAL SOIL NOTES

The structure has been designed using an assumed allowable soil bearing pressure of 2000 psf on virgin soil or compacted granular fill for footings.
A qualified geotechnical engineer shall confirm the assumed allowable soil bearing pressure in a geotechnical report, and the site must be prepared in accordance.
Any discrepancies in the assumed allowable soil bearing pressure must be reported immediately.
If verified conditions differ from assumed capacities, redesign of the foundation system, size and reinforcing of footings, walls and retaining walls may be required.

DESIGN OF EARTH RETAINING WALLS

Basement walls, supported laterally by the basement floor slab and by the main level framing.
Equivalent fluid pressure of 45 pounds per square foot per foot of depth.
Cantilever retaining walls, supported laterally at the base only.
Equivalent fluid pressure of 35 pounds per square foot per foot of depth.
Passive Pressure of 300 pounds per square foot per foot of depth.
These equivalent fluid pressures are valid only when there is a properly designed and installed drain tile system and granular backfill.

STEEL DECKING

Provide standard connections per the AISI 360 Steel Construction Manual.
Provide certified calculations for non-standard connections by a qualified Professional Engineer who is licensed in the state where the project is located.
Connections shown in details without plate, bolt or weld call-outs are for understanding of geometry and represent engineers' concept. Steel supplier is to design for reactions shown on drawings and per structural notes. Deviations from connections shown are acceptable.
Provide minimum 2 bolt connections.
Refer to Architectural Drawings for additional connection requirements for exposed to view connections.
Concealed connections to be completely contained within finishes.
Connections which require additional capacity or have special reaction requirements are noted on the drawings similar to V = 75 k-ft for Axial and M = 25 k-ft for Moments.
All forces given are service/factored load reactions.
Typically provide bolted connections for field installation and welded or bolted shop connections.
Provide 3/4" diameter A325-N bolts in standard or short slotted holes for shear connections.
Structural steel supplier must provide all components for OSHA requirements.

STEEL DECKING

Provide plan for deck fastening requirements.
Provide weld washers where deck is 22 ga and thinner.
Make deck joints over structural supporting members only.
Steel deck should span continuously over a minimum of three spans, where possible.
End joints of roof and non-composite deck must be lapped 2". End joints of composite deck must be butted.
Provide minimum #10 TEK screws for sidelap fasteners.
Provide and install pour stops and end closures as required by the SDI.
Decking is designed unshored. When shoring is indicated, shoring per manufacturer's recommendations. Provide a prime painted finish at roof deck and a galvanized finish for composite deck. Leave form deck unfinished.
Do not cut openings in composite slabs until after concrete has reached full design strength.

FOOTINGS

Footings are to be formed cast-in-place concrete.
Wall footings to be 12" deep with a minimum projection of 4" each side reinforced with 2 #5 continuous bottom bars.
Pad footings to be a minimum of 2'-6" square by 12" deep reinforced with 3 #5 bottom bars each way.
Wall footings are central under walls and pad footings under columns or piers.

UNDERPINNING FOOTINGS

The contractor is responsible for underpinning of existing foundations where noted.
Provide temporary shoring as needed to support vertical loads.
Provide temporary bracing as needed to resist horizontal earth pressure and retain the building.
Contractor to retain an engineer as needed to design shoring and bracing.
Underpinning must be constructed with a permanent type of work.
Underpinning designs must be submitted to SER for review, prior to construction.

CONCRETE

Provide ready-mixed concrete per ASTM C94. Portland cement must be ASTM C150, Type I. Use only one brand of cement throughout the work. Provide concrete aggregates meeting the requirements of ASTM C33. Water must be clean, free of deleterious amounts of acids, alkalis, or organic materials, and be considered potable. Provide admixtures to reduce water content, provide air-entrainment, or alter the quality of the concrete to meet the job conditions. Admixtures must be indicated in the mix designs. All concrete exposed to weather, freeze-thaw conditions or de-icing chemicals shall contain 6% +/- 1.5% entrained air for mixes with 3/4" max aggregate size. Refer to ACI 318 for other aggregate sizes. Slump at point of discharge shall be as follows:

ADHESIVE/MECHANICAL ANCHORS

Adhesive and mechanical anchors must be provided and installed in strict accordance with the manufacturer's instructions and the design documents.
Refer to the special inspections table for inspection requirements.
All horizontal and upwardly inclined installations that resist sustained tension loads must be performed by certified adhesive anchor installers.
Provide anchor type and size as indicated on the drawings with length identification markings conforming to ICC ES AC01 or ICC ES AC193.
Concrete Screw Anchors are a single-use only. Do not remove and reinstall anchors nor install new anchors in previously used holes.
For exposed exterior applications, use only adhesive anchoring systems with stainless steel accessories.
Adhesive anchoring systems:

Concrete
Hilti HIT HY-200
Hilti HIT-RE 500
Masonry
Hilti HIT HY-270
Mechanical anchoring systems
Hilti Kwik Bolt S or Simpson Strong-Bolt 2 expansion anchor
Hilti HIT-HY-808 or Simpson Titen HD screw anchor.
Alternate anchor system may be submitted to the SER for approval. Reference drawings for additional information and requirements.

COLD FORMED STRUCTURAL STEEL

All cold formed structural steel must be designed, fabricated, and erected according to the specifications of the American Iron and Steel Institute.
Submit complete shop drawings to architect and SER for approval showing the erection plan, framing member sizes, and connection details.
Cold formed members and steel supplier shall design and supply all studs, tracks, joists, stiffeners, strap bracing, bridging, end closures, accessories and connections.
Cold formed steel framing is to be designed using members as specified by the Steel Stud Manufacturer's Association.
All welding must match filler materials in accordance with the rules of the American Welding Society (AWS D1.3) Structural Welding Code.
All welders shall be certified by the rules of the American Welding Society.
Joist or roof member must bear directly over stud.
Studs from floor above must bear directly over joists.
Cut ends of studs squarely and seat firmly in runner track with full bearing on the structure.
Notching or coping of studs is not allowed.
Provide a minimum of three studs at corners of all exterior walls and intersecting bearing walls.
Touch up all welds with zinc-rich paint.
Deflection criteria must conform to the requirements set forth by the IBC. Limit deflection for members supporting brick veneer to a maximum of 1/600 of the span.
All field cutting of members must be done by sawing or shearing. Torch cutting of cold-formed members is not acceptable.
Splicing of members is not allowed.
Steel stud walls must be sheathed both faces with gypsum or structural sheathing unless flange bracing is provided by the manufacturer. See structural notes and details for sheathing.
Provide horizontal steel blocking/bridging as per the manufacturer's specifications and requirements for spacing and fastening.
Framing fabricator must align punchouts when assembling lateral bracing and field cutting studs to length. Lateral bracing must be installed at the time the wall is erected; failure to do so may compromise the structural integrity of the building.
Provide unanchored continuous framing members in accordance with the requirements of ASTM C1513. All straps must be stretched and installed taut.
Touch up all welds with zinc-rich paint.
Refer to architectural drawings and specifications for size, minimum thickness, extents and locations of interior non-bearing cold formed steel framing not shown on the structural drawings.

REQUIRE SPECIAL INSPECTIONS

Table with columns: IBC SECTION 1705, DESCRIPTION OF WORK, INSPECTION YES/NO, TESTING YES/NO/N/A, REMARKS. Rows include Welding, Struct Steel Details, High Strength Bolting, Concrete Construction, Structural Masonry, Wood Assemblies, Soils, Driven Deep Foundations, Cast-in-place Deep Foundations, Helical Pile Foundations, Special Inspections for Wind Resistance, Sprayed Fire-Resistant Materials, Mastc and Intumescent Fire-Resistant Materials, Exterior Insulation and Finish Systems (EIFS), Fire Resistance Penetration and Joints, Smoke Control, and Special Cases.

SPECIAL INSPECTIONS

The contractor shall include in the bid the cost of all testing and inspections indicated on the plans and in the specifications, including special inspections required by the building code. The actual contracting of the inspection and testing services shall be in accordance with the division of responsibility dictated by the Minnesota Building Code.

IBC Section 1705 requires that in addition to the inspections required by Section 110, the owner shall employ one or more special inspectors who shall provide inspections during construction of certain types of work.

"Special Inspection" concerns work requiring observation and judgement and shall be performed by a structural engineer (or a designated person under the supervision of the engineer). "Testing" involves the analysis of materials in accordance with approved standards and shall be performed by an independent testing agency.

The contractor shall coordinate the testing and inspection services in accordance with the progress of the work. The contractor shall provide sufficient prior notice to the architect and/or inspection agency of the required work to allow proper scheduling of personnel. The cost of any retesting or additional inspections as a result of failed tests and rejected work shall be borne by the contractor.

This project requires a STRUCTURAL TESTING AND SPECIAL INSPECTION SCHEDULE, to be signed by the Owner, Contractor, Architect, Structural Engineer of Record, and Testing Agency. Refer to the program summary schedule for frequency of testing and inspections.

Table with columns: A, ANCHOR BOLT, AMERICAN CONCRETE INSTITUTE, ADDITIONAL ABOVE FINISH FLOOR, AMERICAN INSTITUTE OF STEEL ASSOCIATION, ALTERNATE AMOUNT ANCHOR, ANCHORAGE AMERICAN NATIONAL STANDARDS INSTITUTE ARCHITECTURAL, AMERICAN SOCIETY OF CIVIL ENGINEERS, ALLOWABLE STRESS DESIGN, AMERICAN SOCIETY FOR TESTING AND MATERIALS, AMERICAN WELDING SOCIETY, BOARD, BOTTOM OF DECK ELEVATION, BOTTOM OF FOOTING, BOTTOM OF GRADE BEAM, ELEVATION, INSIDE DIAMETER, INSIDE FACE, INCH, INFORMATION, BOTTOM, BASE PLATE, BOTTOM OF PILE CAP ELEVATION, JOIST BEARING ELEVATION, JOIST(S), JOINT, CHANNEL, UNSTABILIZED COLD-FORMED STEEL, CAST IN PLACE CONTROL JOINT, CLEARANCE, CONCRETE MASONRY UNIT CENTERED, COLUMN COMPOSITE CONCRETE CONNECTION CONSTRUCTION CONTINUOUS, DEFORMED BAR ANCHOR, DECK BEARING ELEVATION, DOUBLE DEFLECTION, DEMOLITION, DETAIL, DOUGLAS FIR DIAMETER, DIAGONAL DIMENSION(S), MECHANICAL, MEZZANINE, MANUFACTURER MINIMUM, MISCELLANEOUS MASONRY OPENING, MACHINERY MECHANICAL, METAL, EXISTING EAST, EACH EXISTING DECK BEARING ELEVATION, EACH FACE ELEVATION, ELECTRICAL ENCLOSURE, ENGINEER OF RECORD, EACH SIDE EQUIPMENT EACH WAY EXPANSION EXTERIOR, MOMENT, MASONRY MATERIAL, MAXIMUM, MACHINE BOLT, MISCELLANEOUS CHANNEL, TOP OF EXISTING WALL ELEVATION, TOP OF FOOTING ELEVATION, TOP OF GRADE BEAM ELEVATION, THROUGH TOP OF PLANK ELEVATION, TOP OF FILE CAP ELEVATION, TOP OF FLOOR ELEVATION, TREATED TRUSS PLATE INSTITUTE TRANSVERSAL, NATIONAL DESIGN SPECIFICATION NOT IN CONTRACT, NOMINAL, NEAR SIDE, NOT TO SCALE, UNEXCAVATED UNLESS NOTED OTHERWISE, ON CENTER, OUTSIDE DIAMETER, OUTSIDE FACE, OPENING, OPPOSITE, ORIENTED STRAND BOARD OVERSIZED, WEST OR WIDE FLANGE, WITH WOOD WORK POINT, WELDED WIRE FABRIC

SPECIAL INSPECTIONS WORK REQUIRED

Items marked with an asterisk * * are conventional testing not strictly a part of Section 1705 but are required for adequate quality assurance and can be provided by the contractor. All other work must be provided by the owner as indicated by the MN State Building Code.

1. Welding - Structural Steel

- a. Provide verification of Quality Control/Quality Assurance Program regarding fabrication process.
b. Provide visual inspection of all field welding.
c. Qualification of Welders prior to start of work.
d. Provide periodic visual inspection of roof and floor deck welding. Review type and spacing of sidelap fasteners. Inspect all roof and floor deck areas prior to placement of roof insulation or other covering.

2. Structural Steel Details

- a. Provide visual inspection of structural steel details such as bracing, stiffening, member configuration, and proper construction of joint details at each connection.

3. High-strength Bolting

- a. Provide verification of Quality Control/Quality Assurance Program regarding fabrication process.
b. Visual inspection of all field bolting.
c. Bolt designs are based on "bearing" type connections, verify that the connected materials have been drawn together properly.
d. Provide periodic inspection of bolt installation method. Acceptable methods are turn of the nut, direct tension indicator, or twist-off bolt.

4. Concrete Testing

- a. Provide mix design in accordance with ACI requirements.
b. Test concrete at the time of pouring for slump, air-entrainment, and temperature in accordance with the specifications.
c. Make and test concrete cylinders for representative strength in accordance with the specifications.

OR (CHOOSE ONE d., ABOVE OR BELOW, NOT BOTH)

- d. Design of concrete footing is based on design stress Fc = 2500 psi; therefore no special inspection required.
OR (CHOOSE ONE d., ABOVE OR BELOW, NOT BOTH)
d. Provide periodic visual inspection of reinforcing:
I. Visual inspection of all pad footings prior to pour.
II. Visual inspection of 25% of continuous strip footings prior to pour.
III. Visual inspection of 50% of poured foundation wall reinforcing prior to pour.
IV. Visual inspection of 50% of slab on grade and topping over metal deck prior to pour.

5. Masonry - Level B Quality Assurance

- a. Design of masonry based on net area compressive strength of masonry = 2000 psi. Inspections may be performed in accordance with Table 17.19.2 in ACI 530.11.
b. Provide letter of certification from the manufacturer of concrete masonry units and suppliers of mortar and grout, to assure compliance with the compressive strengths required.
c. Inspection of masonry core grouting - (1) inspection prior to each grouting procedure.
I. Reinforcing size and spacing.
II. Grout pour height and cleanouts.
III. Hot weather or cold weather procedures.

6. Wood Assemblies

- a. Provide verification of Quality Control/Quality Assurance Program regarding fabrication process.
b. Visually inspect framing layout and connection details.

7. Soils

- a.* Verify footing excavation for suitability for planned footing.
b.* Verify material used for compacted backfill.
c.* Test compacted backfill for specified compaction.

16. Special Cases

- a. Post-installed anchors. Inspection requirements based on manufacturer's requirements, as described in the ICC Evaluation Service Report (ICC-ESR).

STRUCTURAL ABBREVIATIONS

Table with columns: A, ANCHOR BOLT, AMERICAN CONCRETE INSTITUTE, ADDITIONAL ABOVE FINISH FLOOR, AMERICAN INSTITUTE OF STEEL ASSOCIATION, ALTERNATE AMOUNT ANCHOR, ANCHORAGE AMERICAN NATIONAL STANDARDS INSTITUTE ARCHITECTURAL, AMERICAN SOCIETY OF CIVIL ENGINEERS, ALLOWABLE STRESS DESIGN, AMERICAN SOCIETY FOR TESTING AND MATERIALS, AMERICAN WELDING SOCIETY, BOARD, BOTTOM OF DECK ELEVATION, BOTTOM OF FOOTING, BOTTOM OF GRADE BEAM, ELEVATION, INSIDE DIAMETER, INSIDE FACE, INCH, INFORMATION, BOTTOM, BASE PLATE, BOTTOM OF PILE CAP ELEVATION, JOIST BEARING ELEVATION, JOIST(S), JOINT, CHANNEL, UNSTABILIZED COLD-FORMED STEEL, CAST IN PLACE CONTROL JOINT, CLEARANCE, CONCRETE MASONRY UNIT CENTERED, COLUMN COMPOSITE CONCRETE CONNECTION CONSTRUCTION CONTINUOUS, DEFORMED BAR ANCHOR, DECK BEARING ELEVATION, DOUBLE DEFLECTION, DEMOLITION, DETAIL, DOUGLAS FIR DIAMETER, DIAGONAL DIMENSION(S), MECHANICAL, MEZZANINE, MANUFACTURER MINIMUM, MISCELLANEOUS MASONRY OPENING, MACHINERY MECHANICAL, METAL, EXISTING EAST, EACH EXISTING DECK BEARING ELEVATION, EACH FACE ELEVATION, ELECTRICAL ENCLOSURE, ENGINEER OF RECORD, EACH SIDE EQUIPMENT EACH WAY EXPANSION EXTERIOR, MOMENT, MASONRY MATERIAL, MAXIMUM, MACHINE BOLT, MISCELLANEOUS CHANNEL, TOP OF EXISTING WALL ELEVATION, TOP OF FOOTING ELEVATION, TOP OF GRADE BEAM ELEVATION, THROUGH TOP OF PLANK ELEVATION, TOP OF FILE CAP ELEVATION, TOP OF FLOOR ELEVATION, TREATED TRUSS PLATE INSTITUTE TRANSVERSAL, NATIONAL DESIGN SPECIFICATION NOT IN CONTRACT, NOMINAL, NEAR SIDE, NOT TO SCALE, UNEXCAVATED UNLESS NOTED OTHERWISE, ON CENTER, OUTSIDE DIAMETER, OUTSIDE FACE, OPENING, OPPOSITE, ORIENTED STRAND BOARD OVERSIZED, WEST OR WIDE FLANGE, WITH WOOD WORK POINT, WELDED WIRE FABRIC



MACDONALD & MACK
400 SOUTH FOURTH STREET, # 112, MINNEAPOLIS, MINNESOTA, 55415
P 612.337.4351 F 612.337.4843 WWW.MACDONALD.COM

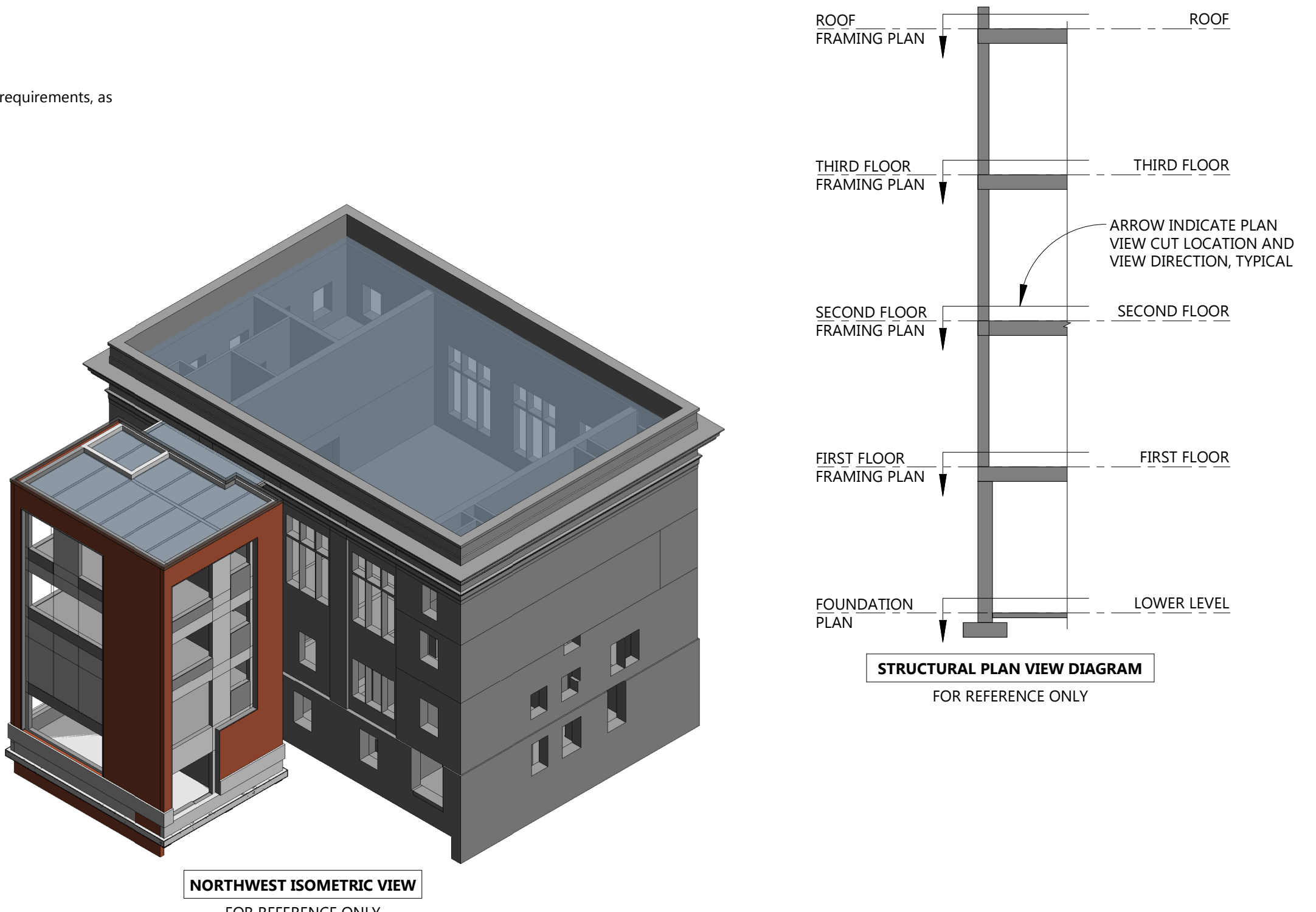


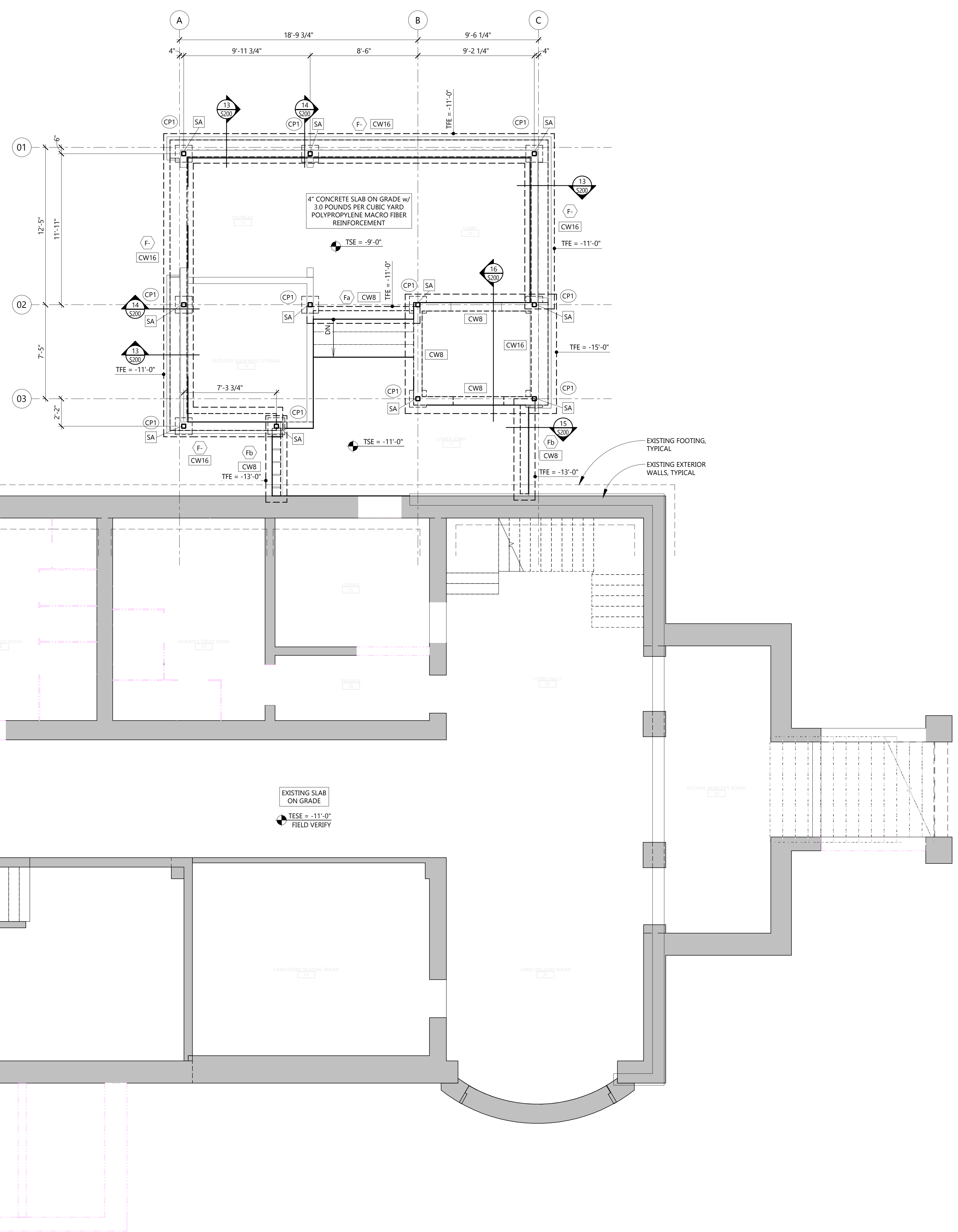
Table with columns: No., Description, Date. Contains revision history entries.

REVISIONS
No. Description Date

CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN: MAD DATE: 12/29/2020

STRUCTURAL NOTES AND SPECIAL INSPECTIONS
S000





1 FOUNDATION PLAN

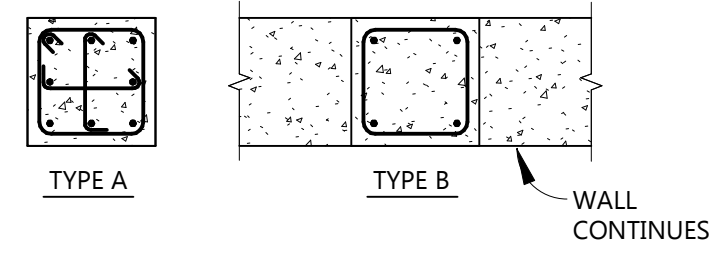
1/4" = 1'-0"
 PLAN NOTES (TYPICAL UNLESS NOTED OTHERWISE):

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND DETAILS OF EXISTING STRUCTURE WHERE THEY AFFECT STRUCTURAL WORK. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF RECORD IF THERE ARE ANY DEVIATIONS FROM CONTRACT DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION OF STRUCTURAL MEMBERS.
- TOP OF CONCRETE SLAB ELEVATION =
- SEE DETAILS 2/S200 AND 3/S200 FOR TYPICAL JOINTS.
- SEE ARCHITECTURAL DRAWINGS FOR SLOPED SLABS AND FLOOR DRAINS.
- MAINTAIN MINIMUM OF 42" COVER (FINAL GRADE ELEVATION TO BOTTOM OF FOOTING) AT ALL EXTERIOR WALL FOOTINGS. STEP FOOTINGS AS NECESSARY TO MAINTAIN COVER AND TO CLEAR UNDERGROUND UTILITIES/SLOPED SLABS. SEE DETAIL 1/S200 FOR TYPICAL STEPPED FOOTING. APPROXIMATE LOCATIONS MARKED THUS: "u" "u".
- SEE 4/S200 FOR TYPICAL UNDERGROUND PIPING EXCAVATION.
- SUMP PIT LOCATIONS AND FOUNDATIONS TO BE COORDINATED WITH MECHANICAL.

FOOTING SCHEDULE		
MARK	SIZE	REINFORCEMENT
F	28" x 12" THICK CONTINUOUS	(3) - #5 CONTINUOUS
Fa	16" x 12" THICK CONTINUOUS	(2) - #5 CONTINUOUS
Fb	20" x 12" THICK CONTINUOUS	(2) - #5 CONTINUOUS

CONCRETE PIER SCHEDULE		
MARK	SIZE	REINFORCEMENT
CP1	16" x 16"	

- SCHEDULE NOTES (TYPICAL UNLESS NOTED OTHERWISE):
- PROVIDE DOWELS FROM PIER TO FOOTING THAT LAP AND ARE THE SAME SIZE AND NUMBER AS VERTICAL BARS.
 - PROVIDE (3) - SETS OF TIES @ 4" OC AT TOP OF PIER.
 - SEE PLAN FOR TOP OF PIER ELEVATION.
 - AT SINGLE TIE LEGS, ALTERNATE LOCATIONS OF 135 DEGREE HOOKED ENDS.



CONCRETE WALL REINFORCEMENT SCHEDULE		
MARK	WALL TYPE	REINFORCEMENT
CW8	8" CONCRETE	
CW16	16" CONCRETE	

- SCHEDULE NOTES (TYPICAL UNLESS NOTED OTHERWISE):
- PROVIDE VERTICAL DOWELS TO FOUNDATION TO MATCH SIZE AND SPACING OF WALL REINFORCEMENT. PROVIDE STANDARD HOOK WHERE REQUIRED.
 - PROVIDE CLASS B LAP ON DOWELS IN WALL.
 - PROVIDE DOWELS TO WITHIN 3" OF BOTTOM OF FOOTING.

STEEL COLUMN SCHEDULE			
MARK	SIZE	BASE PLATE	REMARKS
SA	HSS4X4X1/4		

- SCHEDULE NOTES (TYPICAL UNLESS NOTED OTHERWISE):
- COLUMN MARKS SHOWN ON PLAN INDICATE COLUMNS STARTING AT THIS LEVEL.

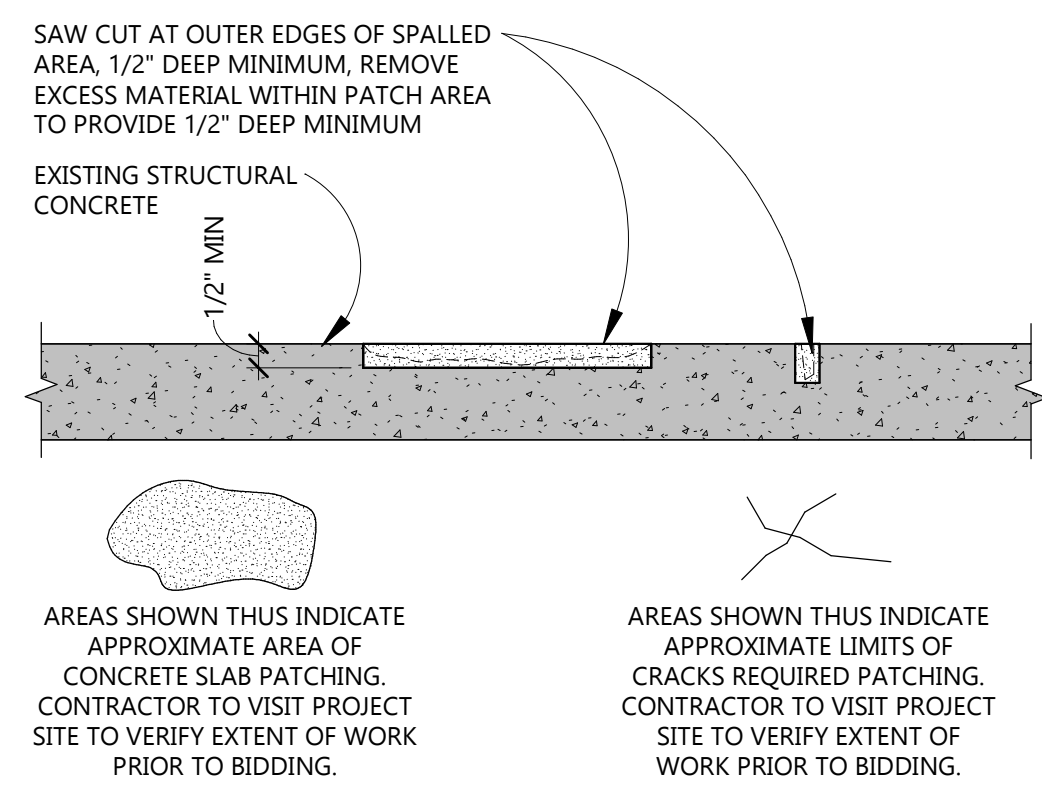
NOT FOR CONSTRUCTION

Matthews MacDonald
 1500 Grand Avenue, Suite 200
 Minneapolis, MN 55415
 P: 612.337.8843
 F: 612.337.8843
 M: 612.337.8843
 Project Contact: Ken Green

REVISIONS	
No.	Date

CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN: MAD
 DATE: 12/23/2020
 REVISIONS

FOUNDATION PLAN

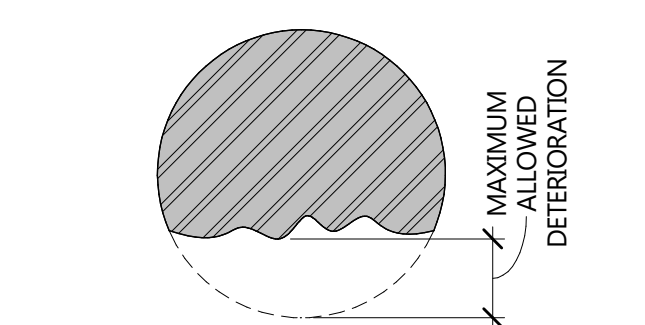
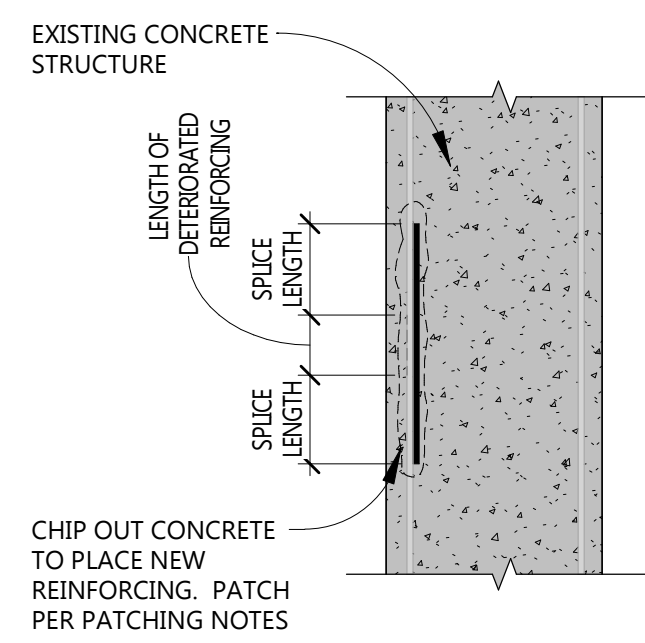


BRUSH, HAMMER AND SANDBLAST EXISTING CONCRETE SURFACE TO REMOVE DIRT, OIL LANTANCE AND LOOSE CONCRETE MATERIALS. WIRE BRUSH EXPOSED REINFORCING STEEL TO REMOVE RUST AND FOREIGN MATERIAL. SOUND CONCRETE C/W HAMMER OR OTHER TOOL TO ASSURE DELAMINATED CONCRETE HAS BEEN REMOVED.

APPLY BONDING AGENT TO ALL CONCRETE AREAS AND TO EXPOSED REINFORCING. MIX AND APPLY IN ACCORDANCE W/ MANUFACTURERS INSTRUCTIONS. APPLICATION SHALL BE APPROXIMATELY 150 SQUARE FEET PER GALLON.

PATCH DETERIORATED AREAS USING PORTLAND CEMENT PATCHING MATERIAL. APPLY IN 1\"/>

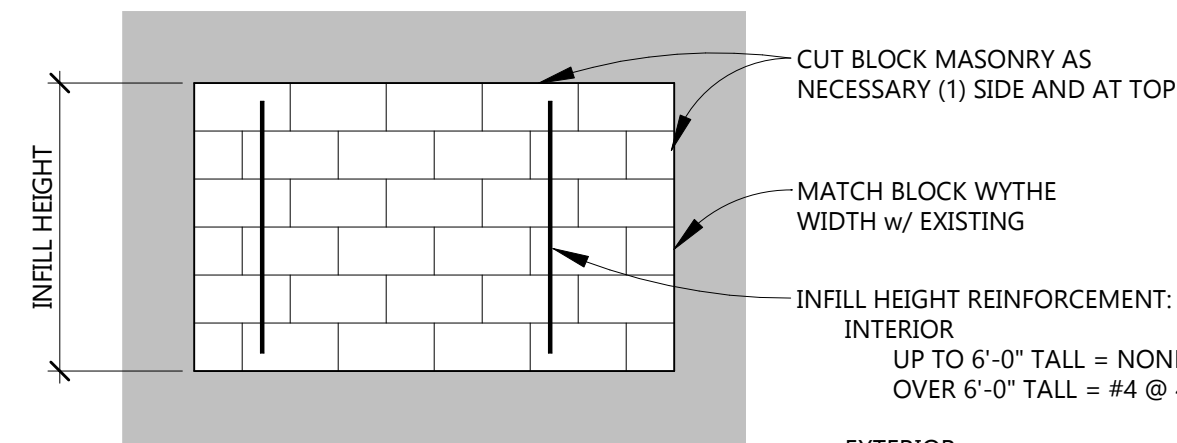
REFER TO ARCHITECTURAL DRAWINGS FOR FINISH APPEARANCE. ALL OTHER AREAS TO MATCH EXISTING CONCRETE APPEARANCE TO EXTENT POSSIBLE.



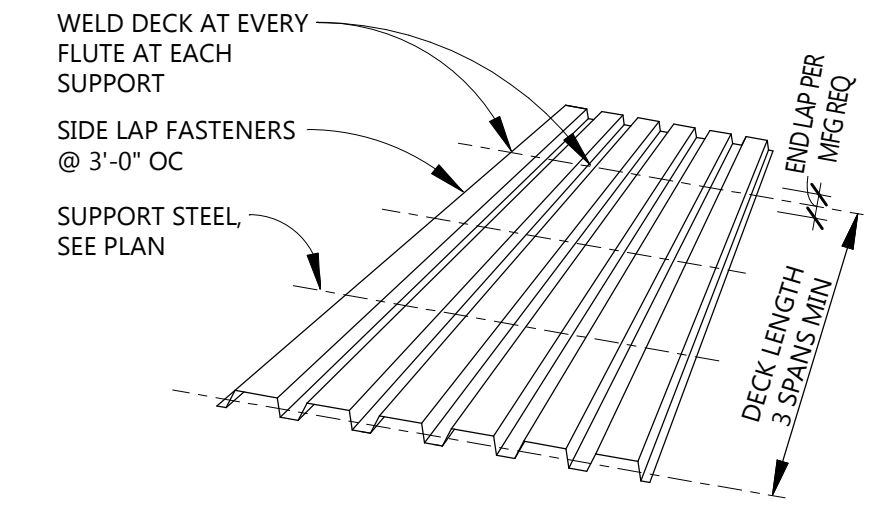
DETERIORATION OF REINFORCING IN EXCESS OF MAXIMUM ALLOWED DETERIORATION SHALL HAVE A LIKE SIZE BAR PLACED AS SHOWN W/ SPICE LENGTH FROM TABLE

REINFORCING SPLICES		
BAR SIZE	MAXIMUM DETERIORATION	SPLICE LENGTH
#3	0.09" (3/32")	12"
#4	0.13" (1/8")	15"
#5	0.16" (5/32")	19"
#6	0.19" (3/16")	23"
#7	0.22" (7/32")	27"
#8	0.26" (1/4")	30"
#9	0.29" (9/32")	34"
#10	0.32" (5/16")	38"

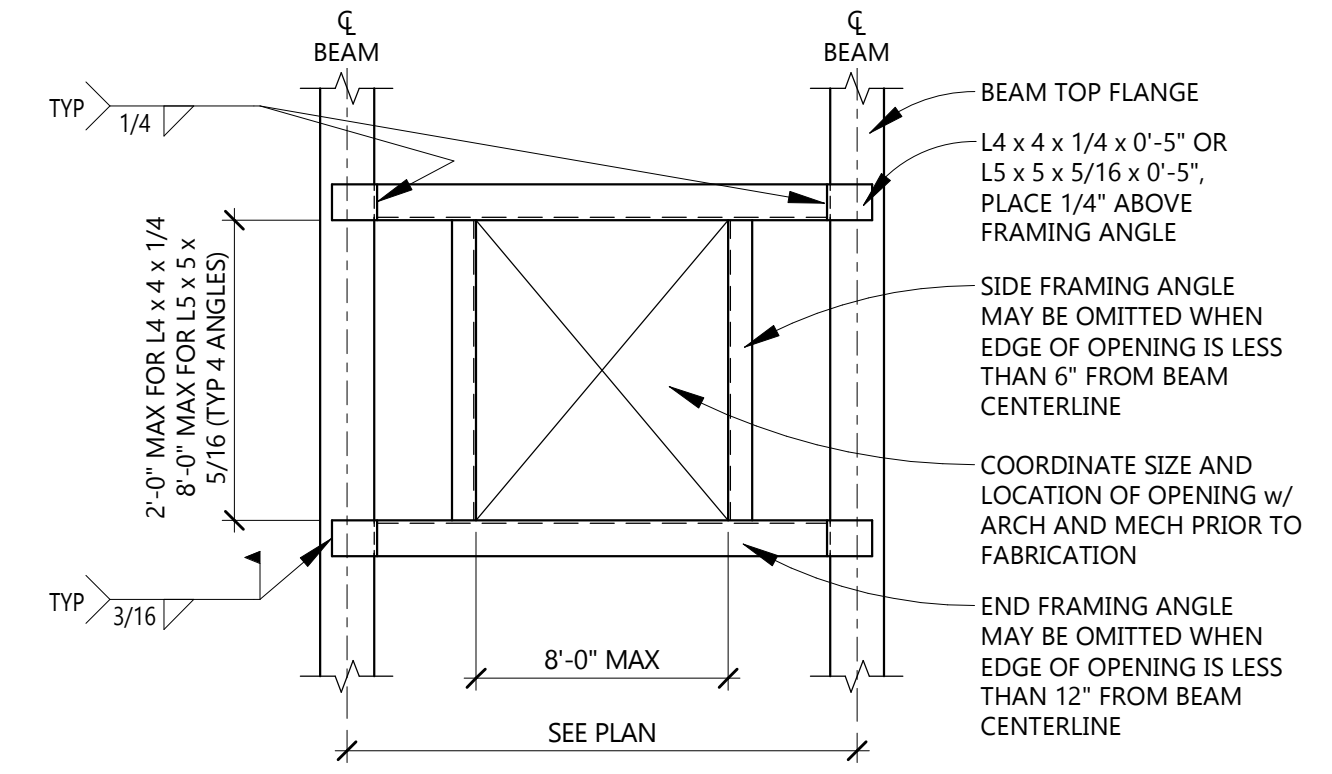
NOTES:
 1. MAXIMUM DETERIORATION DIMENSIONS INDICATED ABOVE ARE MAXIMUM MEASURED LOSS OF BAR DIAMETER ALLOWED. DETERIORATION THAT EXCEEDS DIMENSION SHOWN SHALL BE ENHANCED BY ADDITION OF A NEW LIKE SIZE BAR.
 2. NEW BARS SHALL EXTEND FULL LENGTH OF DETERIORATED PORTION OF EXISTING REINFORCING AND SHALL EXTEND AN ADDITIONAL LENGTH, AS INDICATED BY SPICE DIMENSION IN TABLE ABOVE, BEYOND DETERIORATED LENGTH. SEE SKETCH ADJACENT TO THIS TABLE. ADDITIONAL CONCRETE CHIPPING AND REMOVAL MAY BE REQUIRED TO ACCOMMODATE REQUIRED SPICE LENGTHS FOR NEW BARS.



NOTES:
 INTERIOR
 UP TO 6'-0" TALL = NONE
 OVER 6'-0" TALL = #4 @ 48" OC
 EXTERIOR
 UP TO 10'-0" TALL = #4 @ 48" OC
 UP TO 14'-0" TALL = #5 @ 48" OC



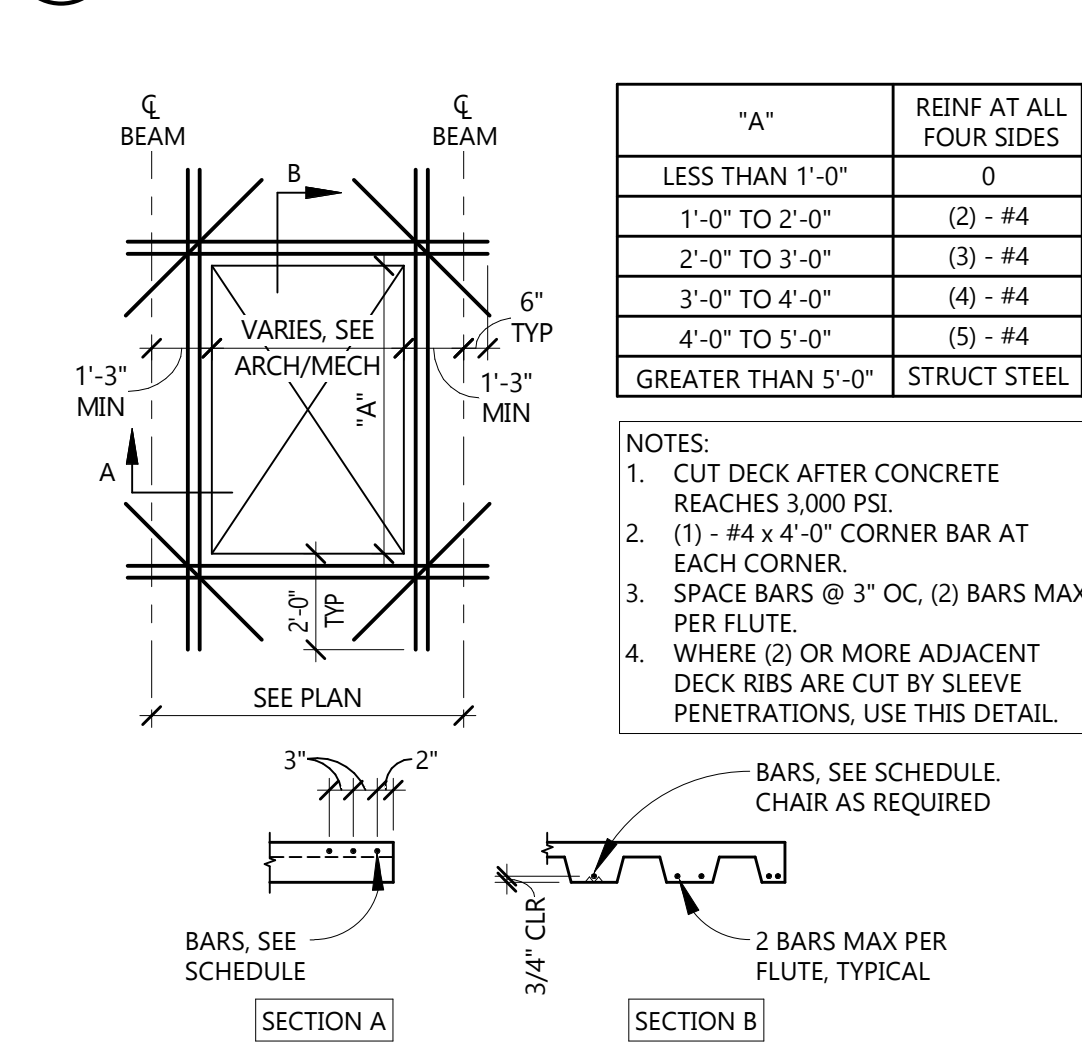
NOTES:
 1. ALL PUDDLE WELDS ARE 5/8" DIA WELDING WASHERS SHALL BE USED WHEN WELDING STEEL FLOOR DECK LESS THAN 22 GA THICKNESS.
 2. DECK FASTENING REQUIREMENTS SHALL NOT BE LESS THAN MANUFACTURER'S RECOMMENDATIONS OR AS SHOWN ABOVE.
 3. STUDS MAY BE EITHER WELDED THROUGH DECK TO BEAM OR DIRECTLY TO BEAM. WHERE PUDDLE WELDS AND STUDS COINCIDE, PUDDLE WELDS MAY BE REPLACED BY STUDS.
 4. WHERE STUD SPACING IS GREATER THAN 16" OC, PUDDLE WELD SHALL BE CENTERED BETWEEN STUDS OR AT MAX 12" OC SPACING.
 5. DECK FASTENING SHALL CONFORM W/ MANUFACTURER'S RECOMMENDATIONS.



NOTES:
 1. WHERE (2) OR MORE ADJACENT DECK RIBS ARE CUT BY SLEEVE PENETRATIONS, USE THIS DETAIL.
 2. FOR SLAB OPENINGS LESS THAN 12", PROVIDE (2) - #4 x 4'-0" REBAR. (4) SIDES OF OPENING DIAGONAL TO DECK FLUTE DIRECTION.

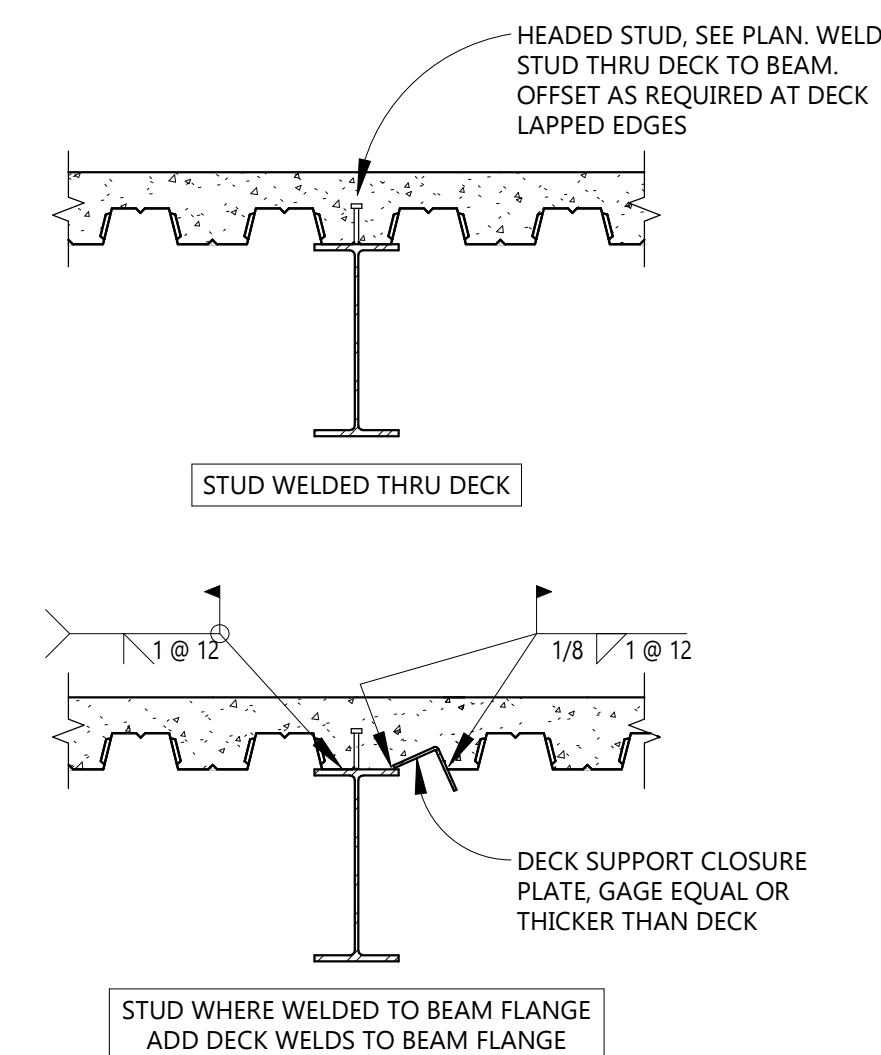
1 CONCRETE PATCH DETAIL

S210 NTS



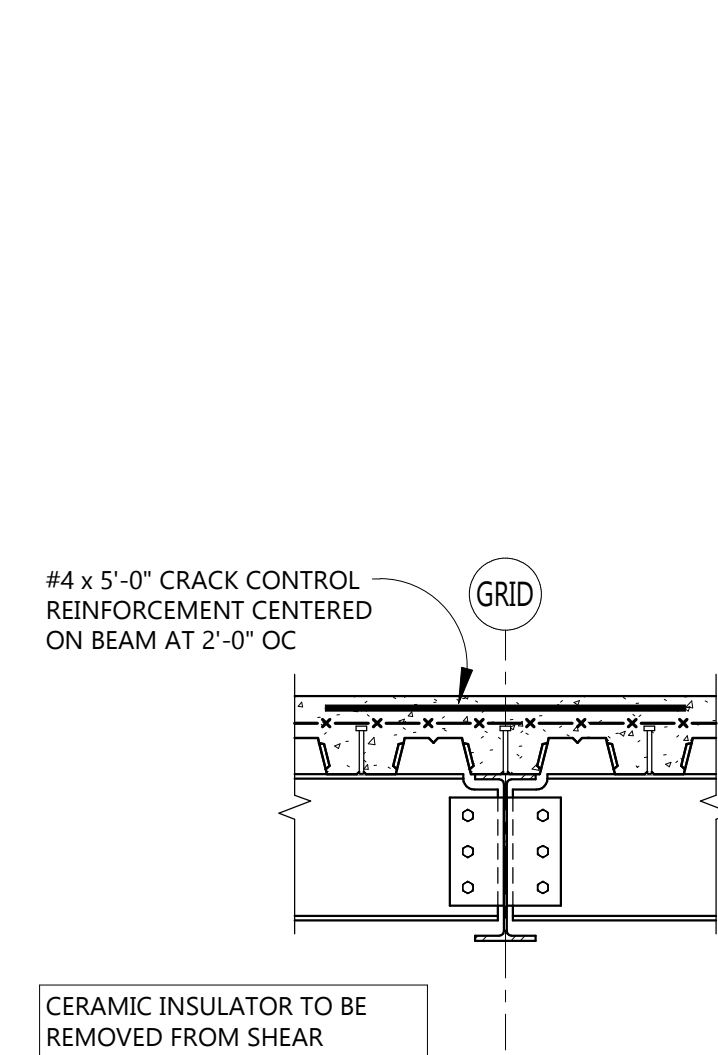
5 TYPICAL REINFORCING AT OPENING IN COMPOSITE FLOOR

S210 NTS



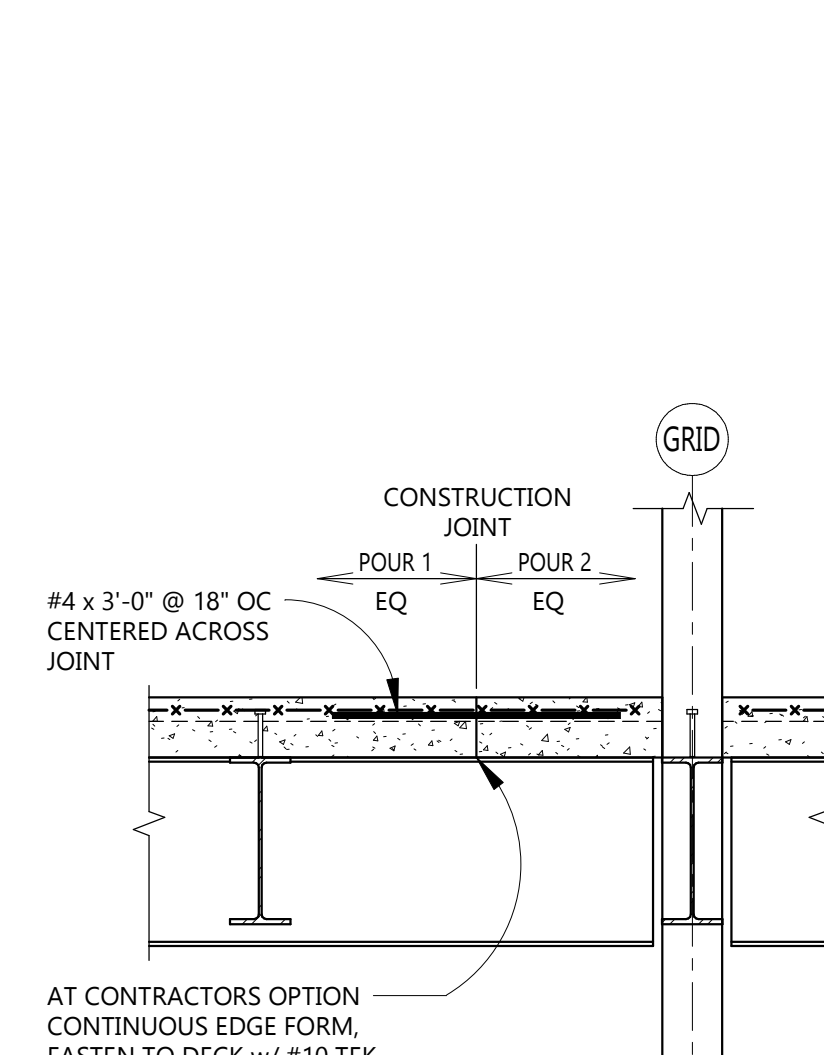
6 TYPICAL STEEL DECK AT COMPOSITE FLOOR BEAM

S210 3/4" = 1'-0"



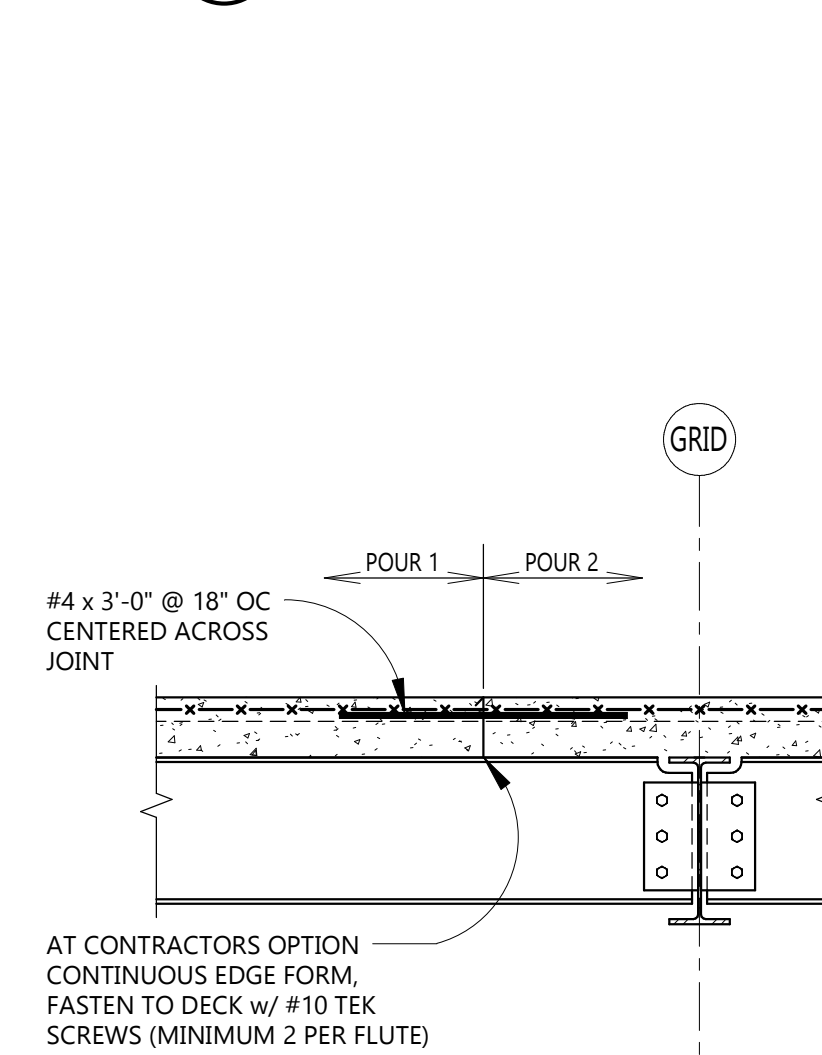
7 TYPICAL COMPOSITE FLOOR CRACK CONTROL REINF

S210 3/4" = 1'-0"



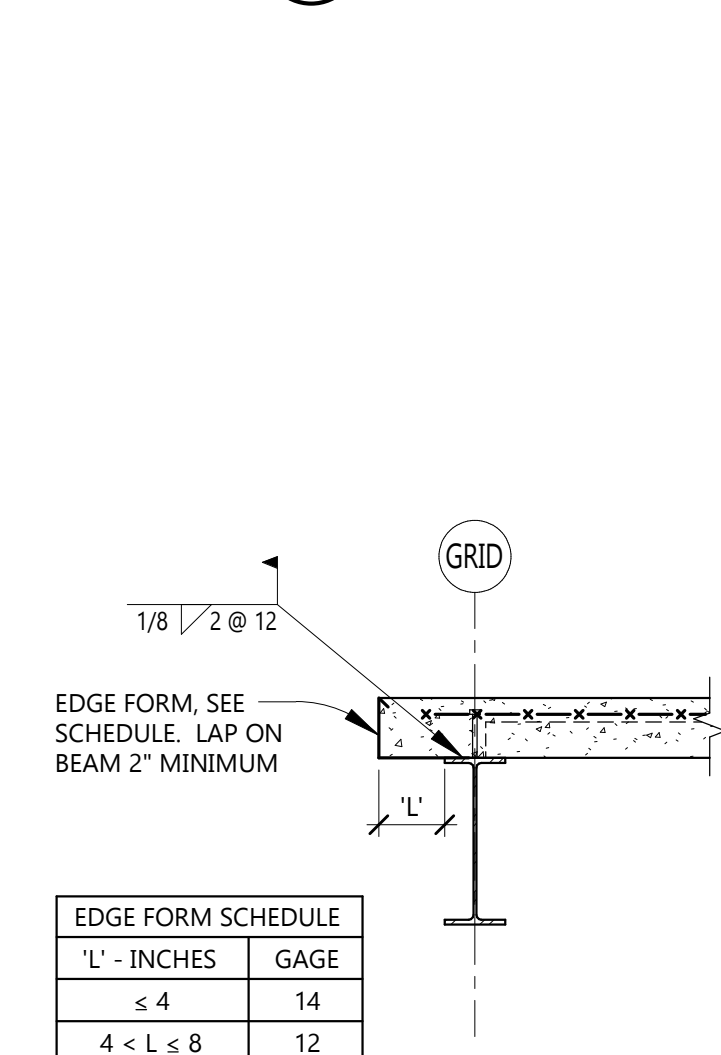
8 TYPICAL COMPOSITE FLOOR CONSTRUCTION JOINT

S210 3/4" = 1'-0"



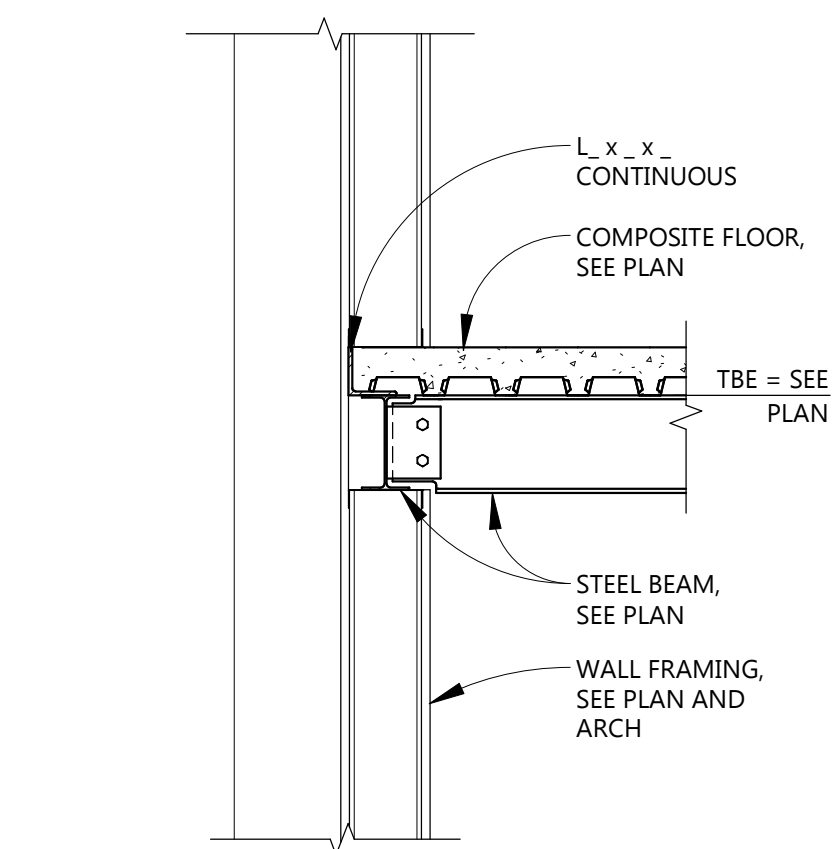
9 TYPICAL COMPOSITE FLOOR EDGE

S210 3/4" = 1'-0"



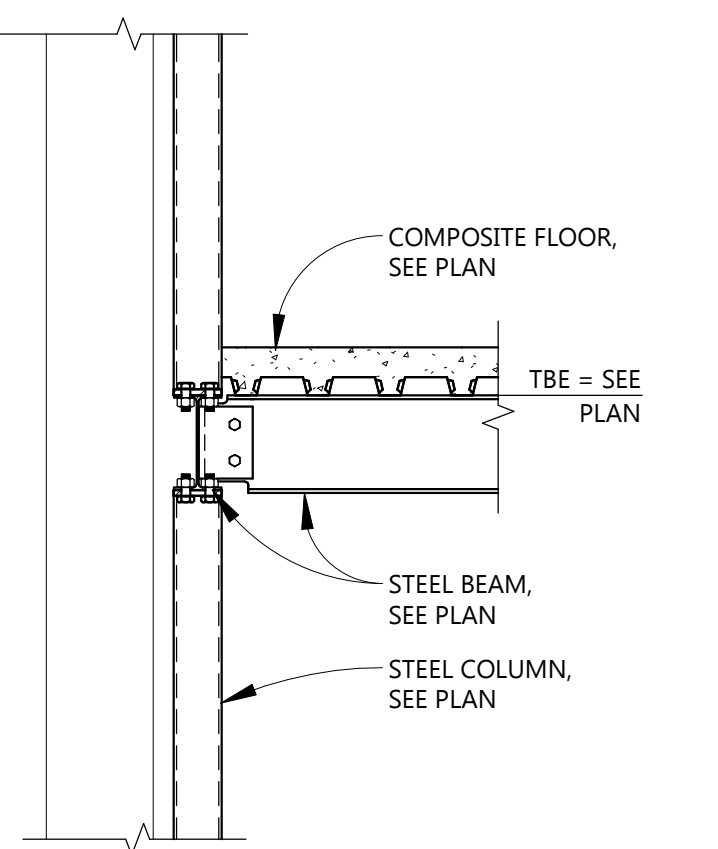
10 TYPICAL COMPOSITE FLOOR DECK WFF SUPPORT AT WF BEAM

S210 3/4" = 1'-0"



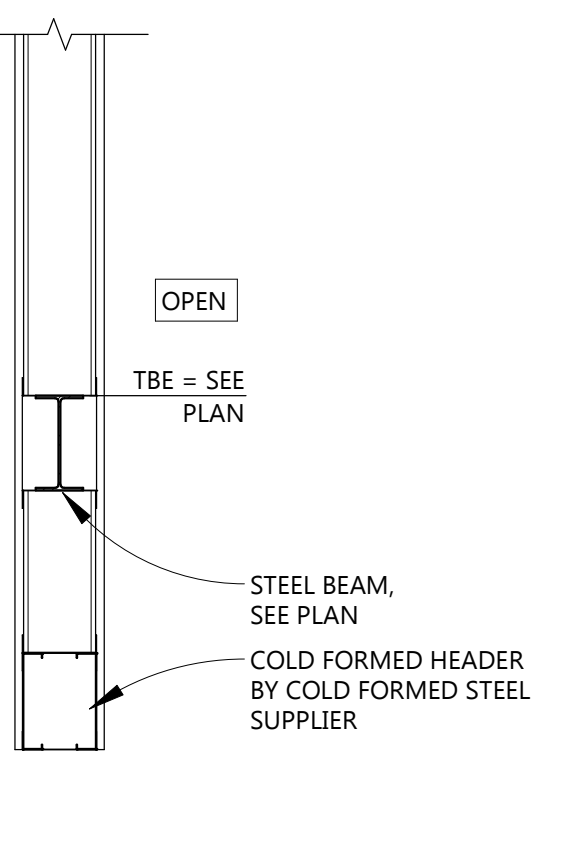
11 SECTION

S210 3/4" = 1'-0"



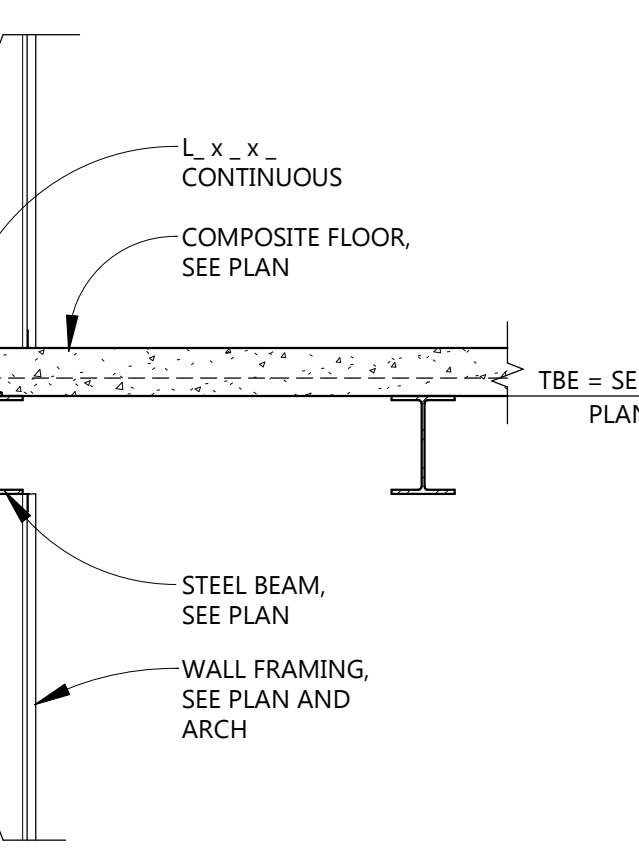
12 SECTION

S210 3/4" = 1'-0"



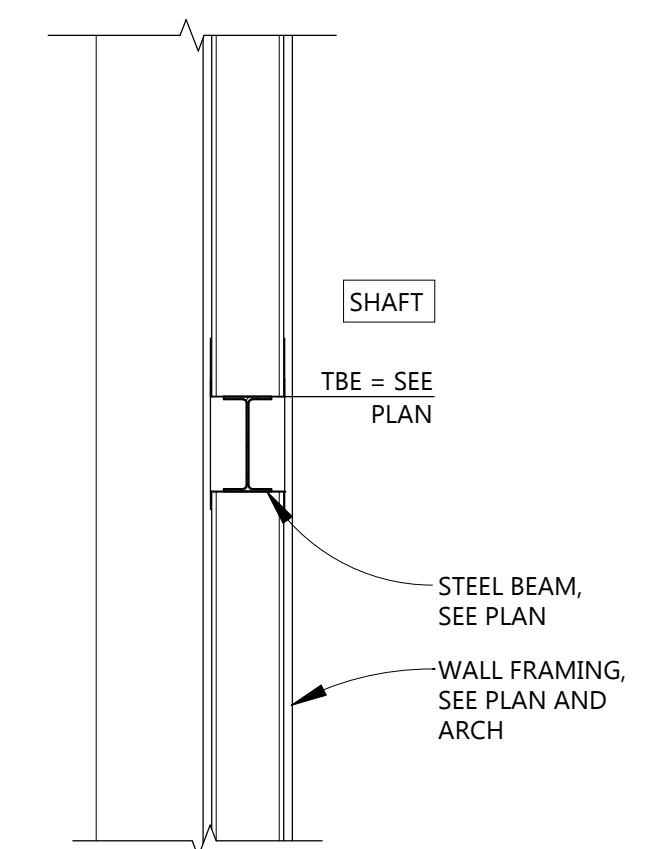
13 SECTION

S210 3/4" = 1'-0"



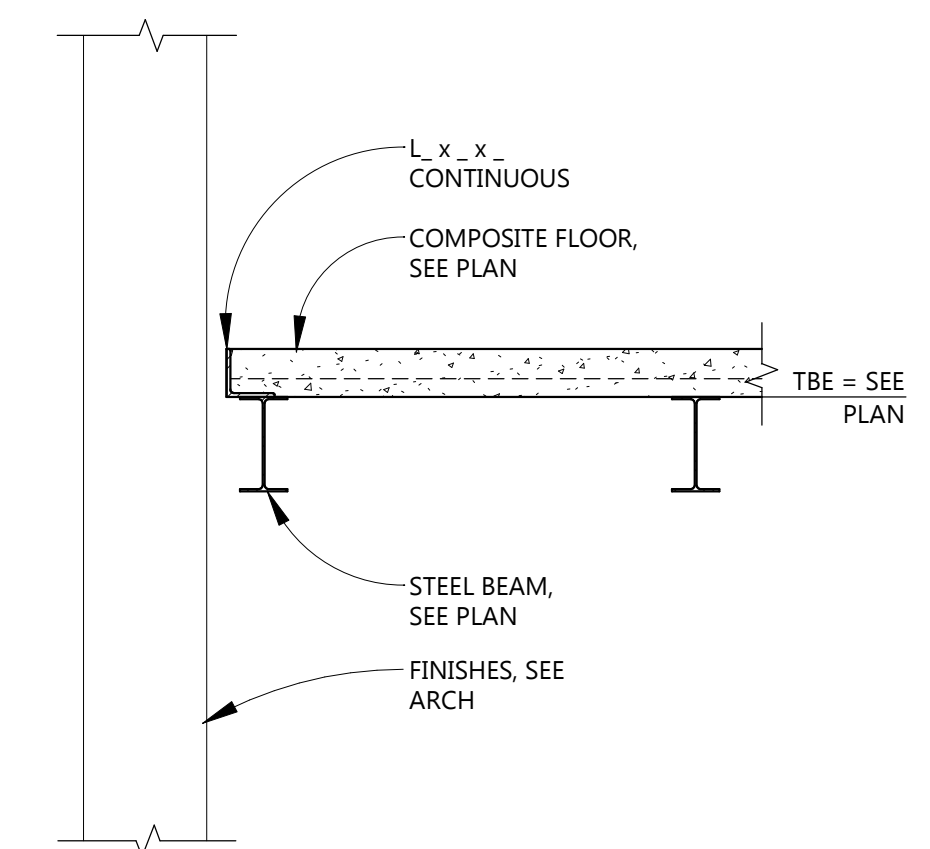
14 SECTION

S210 3/4" = 1'-0"



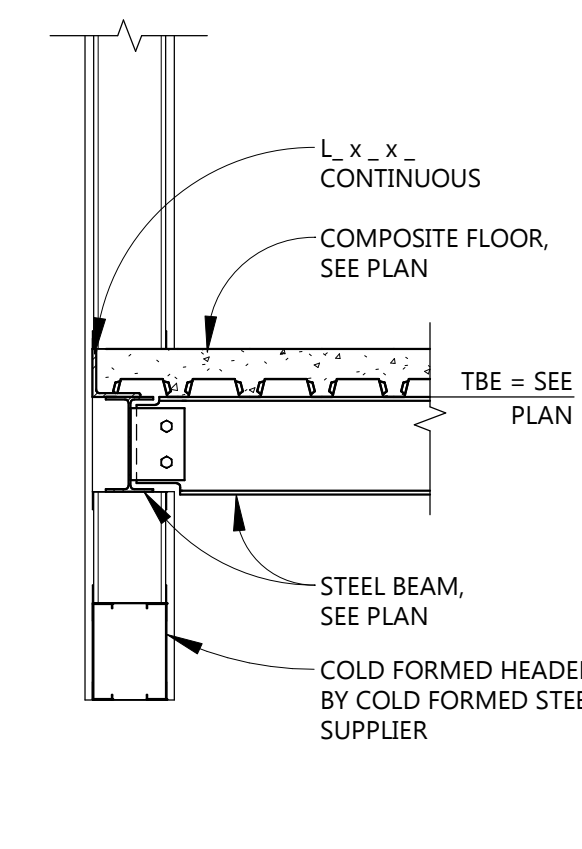
15 SECTION

S210 3/4" = 1'-0"



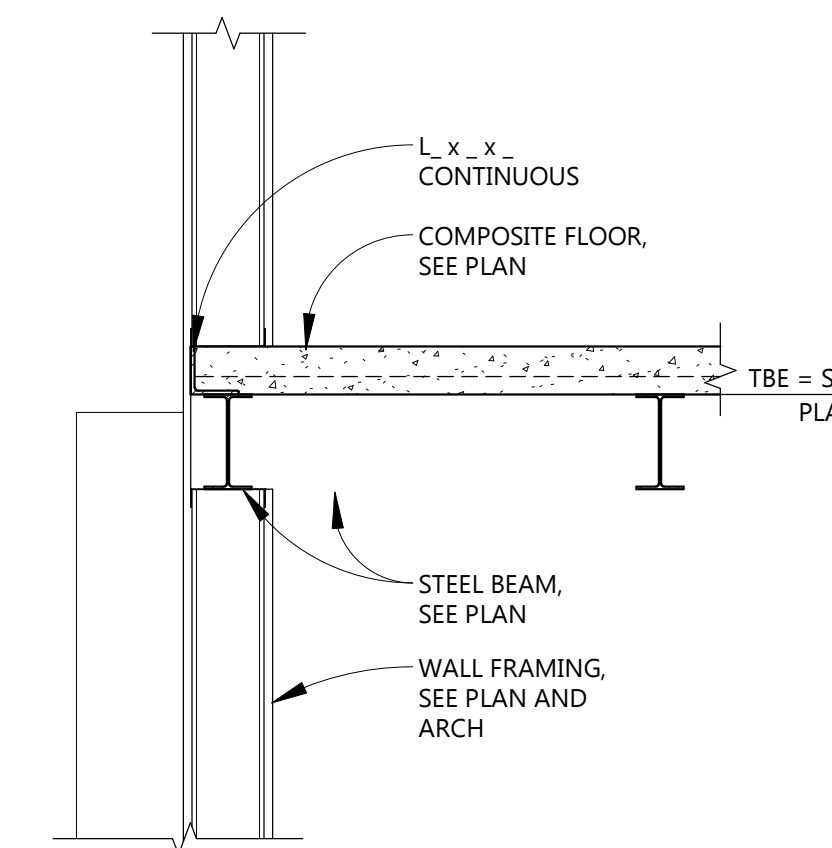
16 SECTION

S210 3/4" = 1'-0"



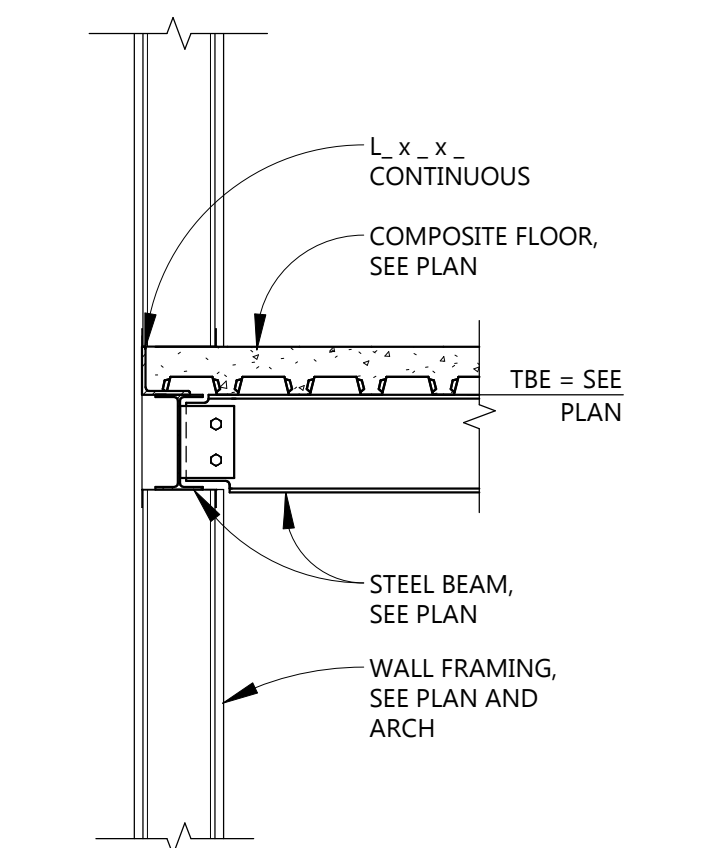
17 SECTION

S210 3/4" = 1'-0"



18 SECTION

S210 3/4" = 1'-0"

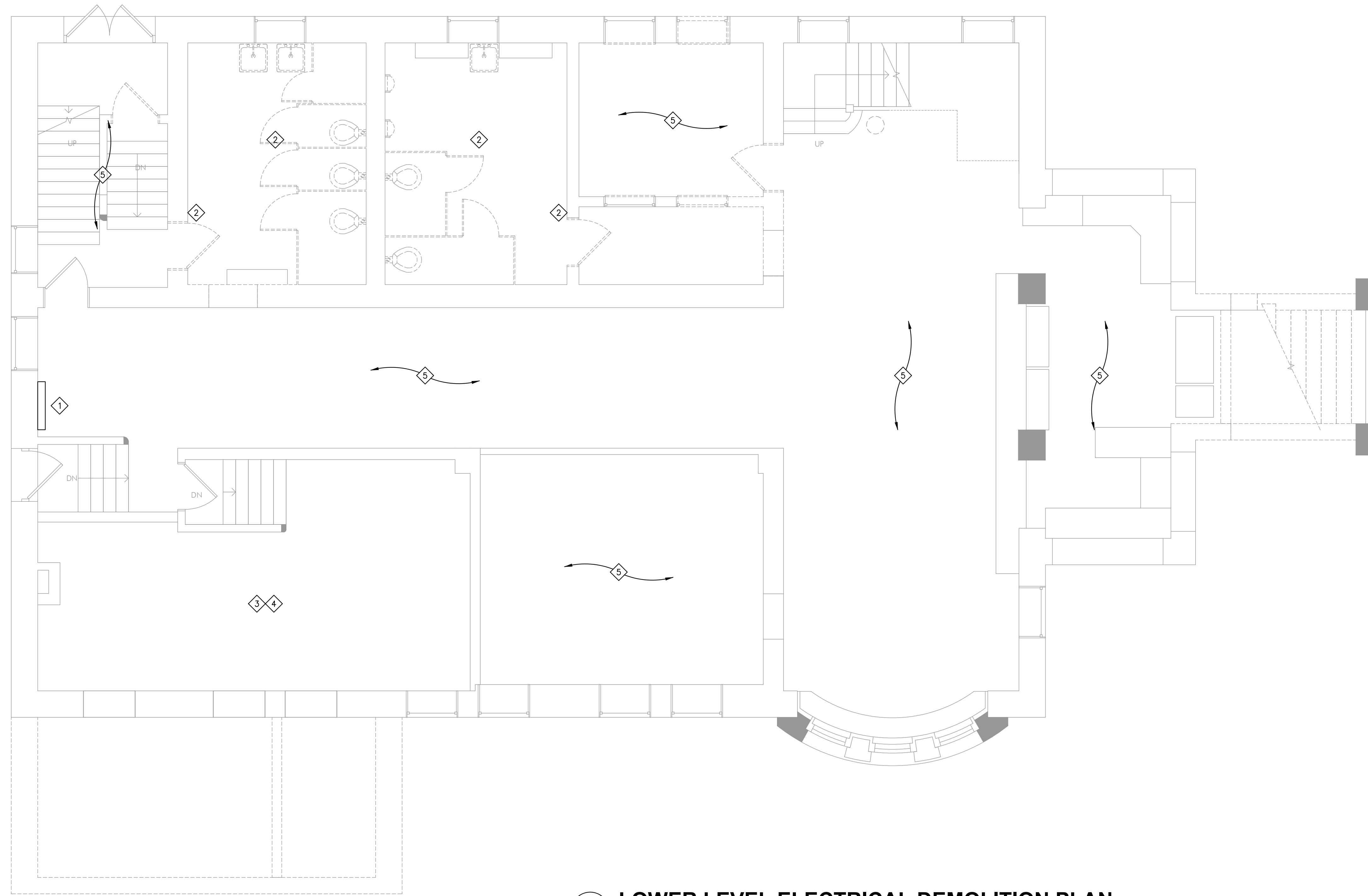


19 SECTION

S210 3/4" = 1'-0"

Matthew Macdonald
 15012 Grandview Avenue
 Minneapolis, MN 55438
 P. 612.827.9855
 F. 612.827.9893
 M. 612.827.9893
 Project Contact: Ken Green

REVISIONS	
No.	Description



1 LOWER LEVEL ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"

GENERAL NOTES

- A. REFER TO THE ARCHITECTURAL SPECIFICATIONS DIVISION 0 AND DIVISION 1 FOR SCHEDULING REQUIREMENTS. MAINTAIN SERVICES TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION. PROVIDE TEMPORARY SERVICES AS REQUIRED.
- B. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
- C. DEMOLISH ALL ELECTRICAL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRE, HANGERS, ETC. IN PLACE. WHERE EXISTING BRANCH CIRCUITS ARE INTERCEPTED MAINTAIN POWER TO ALL ACTIVE DEVICES THAT REMAIN.
- D. PROVIDE BLANK COVERPLATE FOR ALL UNUSED DEVICE BOXES.
- E. REPLACE ALL LAY-IN CEILING TILES DAMAGED AS A RESULT OF THE ELECTRICAL WORK, UNLESS NOTED OTHERWISE.
- F. PROVIDE NEW SUPPORT FOR ANY LOW VOLTAGE CABLES ABOVE EXISTING CEILING THAT ARE PRESENTLY SUPPORTED BY WALLS AND CEILINGS SLATED FOR DEMOLITION. PROVIDE NEW INDEPENDENT SUPPORTING OF THESE CABLES FROM STRUCTURE (SUPPORT FOR THESE CABLES IS NOT TO BE SUPPORTED FROM CEILING SUPPORT CABLES). THE REQUIREMENTS INCLUDE PROVIDING NEW INDEPENDENT SUPPORTS OF CONDUIT STUBS AND CABLE TRAY PRESENTLY ROUTED THROUGH WALLS SLATED FOR DEMOLITION.
- G. REMOVE AND REINSTALL CEILING AS NEEDED FOR ELECTRICAL DEMOLITION, NEW ELECTRICAL WORK AND MODIFICATIONS TO EXISTING ELECTRICAL WORK UNLESS NOTED OTHERWISE.
- H. THE DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ANY DEFICIENCIES AND/OR IMPERFECTIONS ON ANY DEVICE SCHEDULED TO BE REMOVED AND REINSTALLED PRIOR TO COMMENCING DEMOTION WORK. REPORT DEFICIENCIES TO ARCHITECT/OWNER.
- I. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOORS, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.
- J. PATCH AND PAINT ALL WALL, FLOOR, AND CEILING SURFACES DAMAGED AS A RESULT OF THE ELECTRICAL WORK TO MATCH EXISTING FINISHES, UNLESS NOTED OTHERWISE.

KEY NOTES

- 1 DEMOLISH EXISTING ELECTRICAL PANELS AND RELATED EQUIPMENT ON THIS WALL. DISCONNECT EXISTING BRANCH CIRCUIT FEEDER WIRES FROM EXISTING ELECTRICAL PANELS AND SALVAGE FOR EXTENSION TO NEW ELECTRICAL PANELS. ALL ACTIVE BRANCH CIRCUITS IN THESE PANELS ARE TO BE EXTENDED TO NEW ELECTRICAL PANELS.
- 2 DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES AND LIGHTING CONTROL SWITCHES COMPLETE IN THIS AREA/ROOM UNLESS NOTED OTHERWISE. GIVE OWNER THE OPTION TO KEEP LIGHTING, IF OWNER DECLINES, DEMOLISH COMPLETE. MAINTAIN LIGHTING CIRCUIT HOMERUN FOR CONNECTION TO NEW LIGHTING. REFER TO SHEETS E101 AND E201 FOR NEW LIGHTING AND POWER REQUIREMENTS.
- 3 DEMOLISH ELECTRICAL CONNECTIONS TO EXISTING WATER HEATER COMPLETE. DEMOLISH EXISTING WIRING, CIRCUITING, CONDUIT, ETC. COMPLETE BACK TO SOURCE.
- 4 DISCONNECT EXISTING ELECTRICAL CONNECTIONS TO EXISTING BOILER COMPLETE. MAINTAIN EXISTING WIRING, CIRCUITING, CONDUIT, ETC. DURING DEMOLITION AND EXTEND TO NEW LOCATION INDICATED ON POWER PLAN.
- 5 NO ELECTRICAL WORK WITHIN THIS AREA UNLESS NOTED OTHERWISE.

60%
SUBMITTAL
01-25-2021



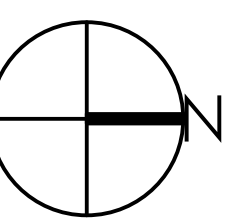
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Paul J. Fettingner

SIGNATURE: _____
DATE: _____

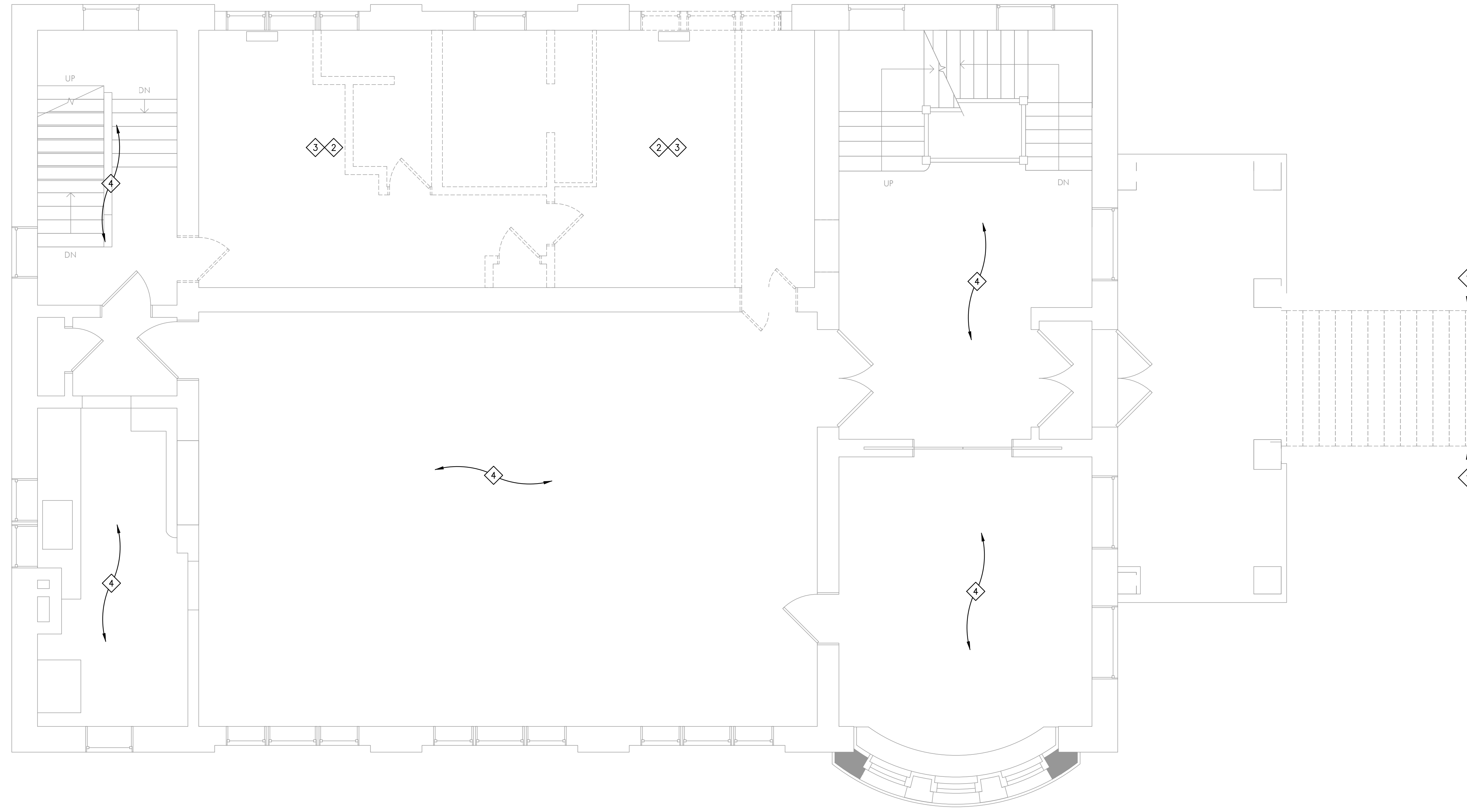
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY: DJQ
CHECKED BY: PJF
DATE: 11/08/20
REVISIONS

LOWER LEVEL
ELECTRICAL
DEMOLITION PLAN

E001



- KEY NOTES**
- ① LIGHT POSTS TO BE REMOVED AND SALVAGED FOR RE-INSTALLATION. MAINTAIN EXISTING CONDUIT AND FEEDER WIRES. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT PRIOR TO BID.
 - ② DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES AND LIGHTING CONTROL SWITCHES COMPLETE IN THIS AREA/ROOM UNLESS NOTED OTHERWISE. GIVE OWNER THE OPTION TO KEEP LIGHTING. IF OWNER DECLINES, DEMOLISH COMPLETE. MAINTAIN LIGHTING CIRCUIT HOMERUN FOR CONNECTION TO NEW LIGHTING. REFER TO SHEETS E111 AND E211 FOR NEW LIGHTING AND POWER REQUIREMENTS.
 - ③ DEMOLISH EXISTING ELECTRICAL CONNECTIONS, WIRING CONDUIT, ETC., COMPLETE BACK TO SOURCE FOR EXISTING KITCHEN APPLIANCES.
 - ④ NO ELECTRICAL WORK WITHIN THIS AREA UNLESS NOTED OTHERWISE.

1 FIRST FLOOR ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"

60%
SUBMITTAL
01-25-2021



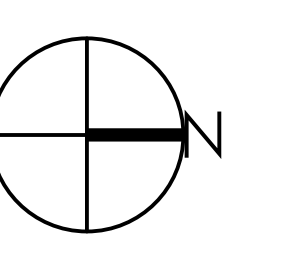
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Paul J. Fettingner

SIGNATURE: _____
DATE: _____

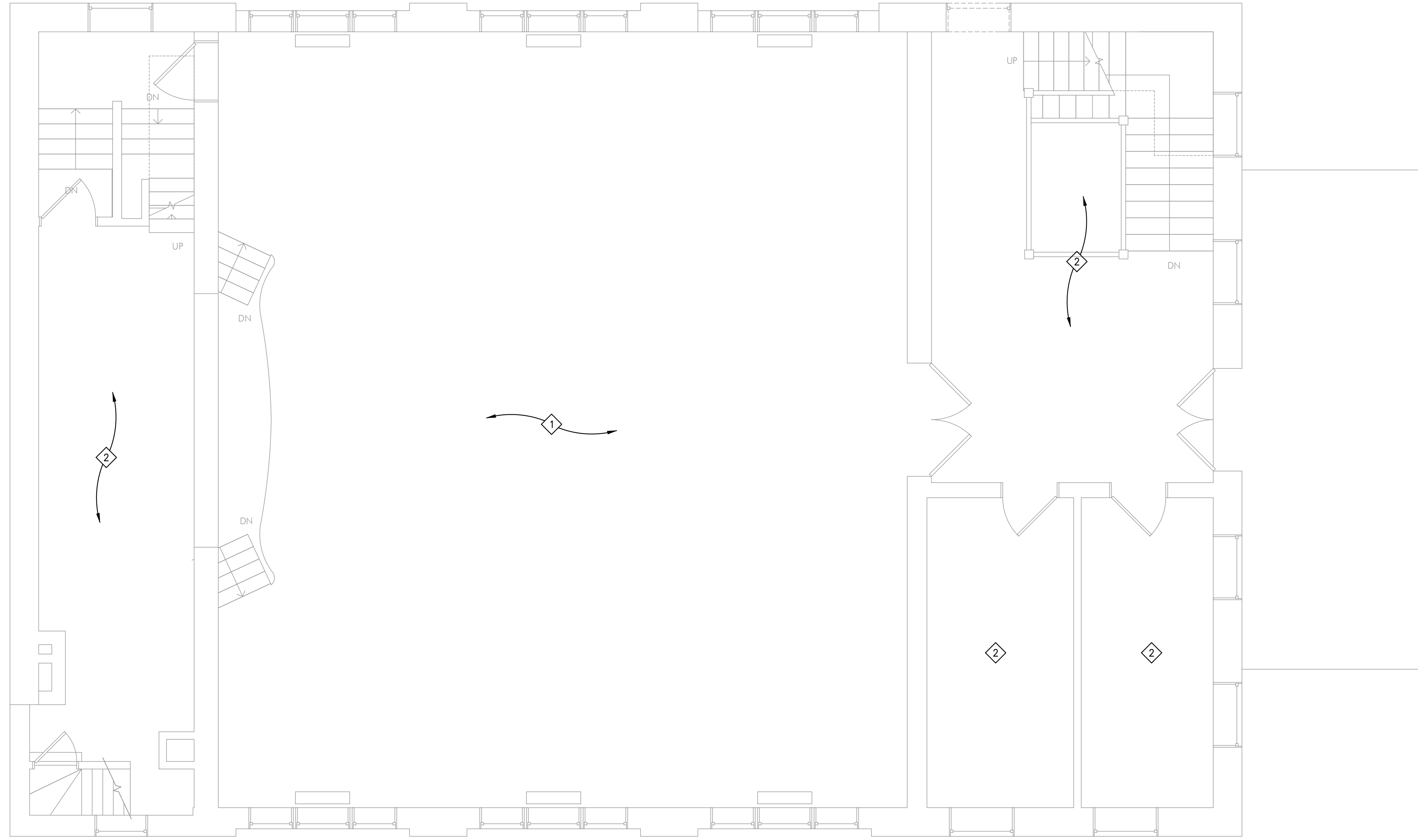
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY: DJQ CHECKED BY: PJF REVISIONS
DATE: 11/08/20

FIRST FLOOR
ELECTRICAL
DEMOLITION PLAN

E011



KEY NOTES

- ① DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES AND LIGHTING CONTROL SWITCHES COMPLETE IN THIS AREA/ROOM UNLESS NOTED OTHERWISE. GIVE OWNER THE OPTION TO KEEP LIGHTING. IF OWNER DECLINES, DEMOLISH COMPLETE. MAINTAIN LIGHTING CIRCUIT HOMERUN FOR CONNECTION TO NEW LIGHTING. REFER TO SHEET E121 FOR NEW LIGHTING LAYOUT.
- ② NO ELECTRICAL WORK WITHIN THIS AREA UNLESS NOTED OTHERWISE.

1 SECOND FLOOR ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"

60%
SUBMITTAL
01-25-2021



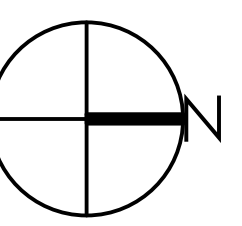
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Paul J. Fettingner

SIGNATURE: _____
DATE: _____

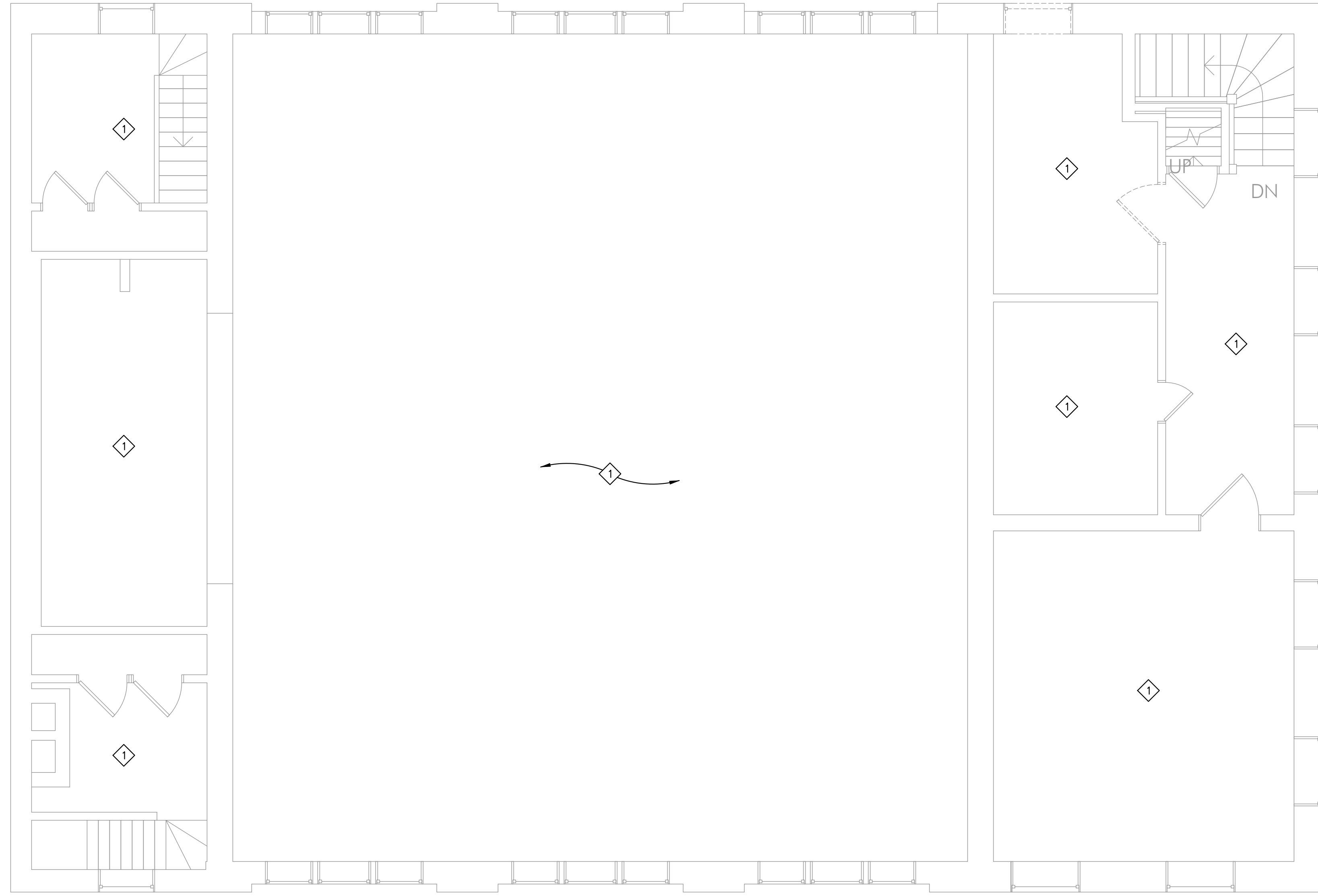
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY: DJQ CHECKED BY: PJF REVISIONS
DATE: 11/XX/20

SECOND FLOOR
ELECTRICAL
DEMOLITION PLAN

E021



KEY NOTES
 ⬠ NO ELECTRICAL WORK WITHIN THIS AREA UNLESS NOTED OTHERWISE.

1 THIRD FLOOR ELECTRICAL DEMOLITION PLAN
 1/4" = 1'-0"

**60%
 SUBMITTAL
 01-25-2021**



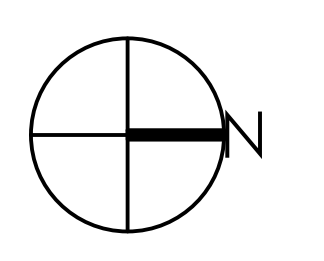
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Paul J. Fettingner

SIGNATURE: _____
 DATE: _____

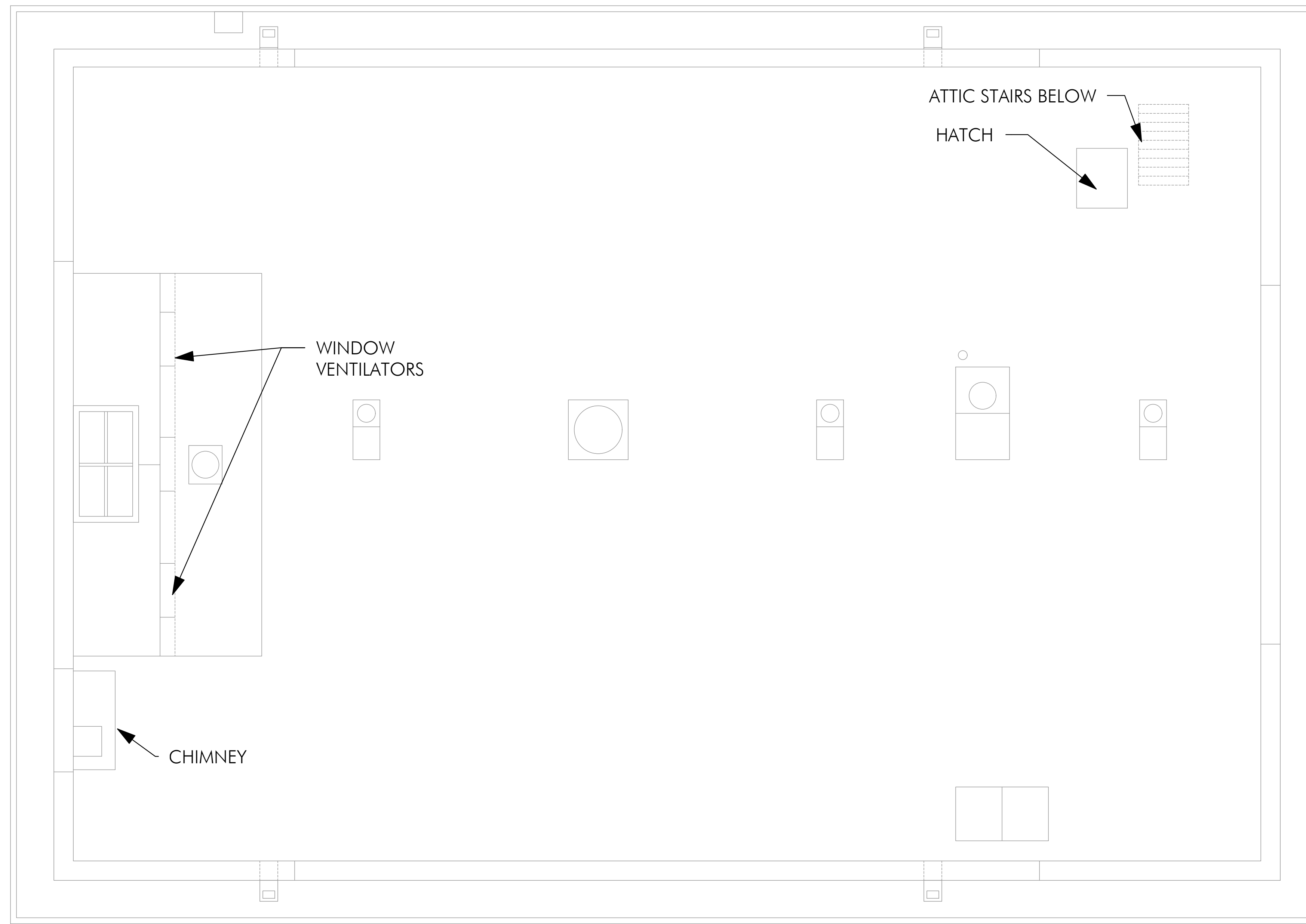
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY: DJQ CHECKED BY: PJF REVISIONS
 DATE: 11/XX/20

THIRD FLOOR
 ELECTRICAL
 DEMOLITION PLAN

E031



1 ROOF LEVEL ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"

60%
SUBMITTAL
01-25-2021



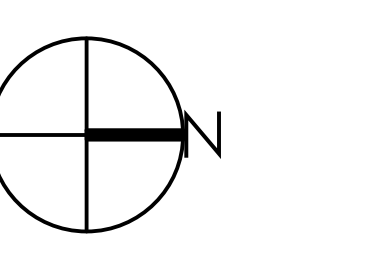
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Paul J. Fettingner

SIGNATURE: _____
DATE: _____

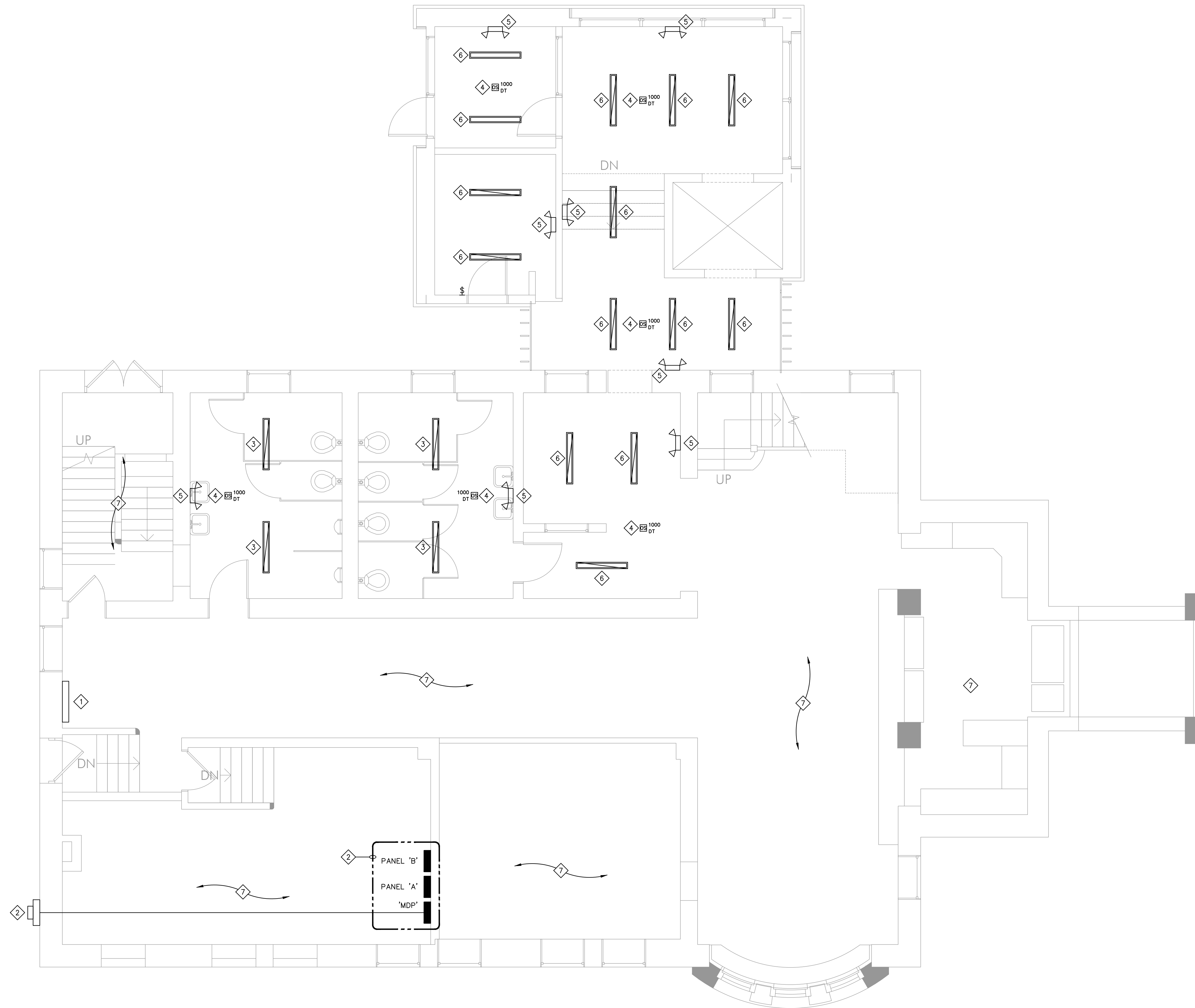
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY: DJQ CHECKED BY: PJF REVISIONS
DATE: 11/08/20

ROOF LEVEL
ELECTRICAL
DEMOLITION PLAN

E041



1 LOWER LEVEL LIGHTING PLAN
1/4" = 1'-0"

- GENERAL NOTES**
- A. REFER TO THE ARCHITECTURAL SPECIFICATIONS DIVISION 0 AND DIVISION 1 FOR SCHEDULING REQUIREMENTS. MAINTAIN SERVICES TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION. PROVIDE TEMPORARY SERVICES AS REQUIRED.
 - B. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
 - C. DEMOLISH ALL ELECTRICAL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRE, HANGERS, ETC. IN PLACE. WHERE EXISTING BRANCH CIRCUITS ARE INTERCEPTED MAINTAIN POWER TO ALL ACTIVE DEVICES THAT REMAIN.
 - D. PROVIDE BLANK COVERPLATE FOR ALL UNUSED DEVICE BOXES.
 - E. REPLACE ALL LAY-IN CEILING TILES DAMAGED AS A RESULT OF THE ELECTRICAL WORK, UNLESS NOTED OTHERWISE.
 - F. PROVIDE NEW SUPPORT FOR ANY LOW VOLTAGE CABLES ABOVE EXISTING CEILING. CEILING SUPPORTS BY WALLS AND CEILING SLATED FOR DEMOLITION. PROVIDE NEW INDEPENDENT SUPPORTING OF THESE CABLES FROM STRUCTURE (SUPPORT FOR THESE CABLES IS NOT TO BE SUPPORTED FROM CEILING SUPPORT CABLES). THE REQUIREMENTS INCLUDE PROVIDING NEW INDEPENDENT SUPPORTS OF CONDUIT STUBS AND CABLE TRAY PRESENTLY ROUTED THROUGH WALLS SLATED FOR DEMOLITION.
 - G. REMOVE AND REINSTALL CEILING AS NEEDED FOR ELECTRICAL DEMOLITION, NEW ELECTRICAL WORK AND MODIFICATIONS TO EXISTING ELECTRICAL WORK UNLESS NOTED OTHERWISE.
 - H. THE DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ANY DEFICIENCIES AND/OR IMPERFECTIONS ON ANY DEVICE SCHEDULED TO BE REMOVED AND REINSTALLED PRIOR TO COMMENCING DEMOLITION WORK. REPORT DEFICIENCIES TO ARCHITECT/OWNER.
 - I. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOORS, OR CEILING COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.
 - J. PATCH AND PAINT ALL WALL, FLOOR, AND CEILING SURFACES DAMAGED AS A RESULT OF THE ELECTRICAL WORK TO MATCH EXISTING FINISHES, UNLESS NOTED OTHERWISE.

- KEY NOTES**
- 1 LOCATION OF EXISTING ELECTRICAL PANELS AND RELATED EQUIPMENT BEING DEMOLISHED. INTERCEPT EXISTING ACTIVE BRANCH CIRCUITS AND EXTEND THEM TO NEW ELECTRICAL PANELS 'A' AND 'B' IN BOILER ROOM. MATCH EXISTING CONDUIT AND WIRE SIZES.
 - 2 LOCATION OF NEW ELECTRICAL EQUIPMENT.
 - 3 PROVIDE NEW RESTROOM LIGHTING AS INDICATED. INTERCEPT EXISTING CONDUIT AND RESTROOM LIGHTING CIRCUITRY AND EXTEND TO NEW LIGHT FIXTURES. LIGHT FIXTURES TO BE CONTROLLED BY OCCUPANCY SENSOR. REFER TO LIGHT FIXTURE SCHEDULE THIS SHEET FOR LIGHT FIXTURE INFORMATION.
 - 4 TENANT'S E.C. TO PROVIDE CEILING MOUNTED 360° DUAL TECHNOLOGY OCCUPANCY SENSOR. WATTSTOPPER: DT-305. PROVIDE BZ-200 POWER PACK(S), AND ADDITIONAL WIRING AS REQUIRED. COORDINATE WITH MANUFACTURER. SET OCCUPANCY SENSOR TIMER TO 15 MINUTES.
 - 5 EXIT SIGNS, EMERGENCY AND NIGHT LIGHTING (NL) CIRCUITS ARE TO BE WIRED AHEAD OF ALL SWITCHING AND CONTACTORS.
 - 6 PROVIDE NEW LIGHTING AS INDICATED. CIRCUIT TO NEW ELECTRICAL PANEL AS INDICATED. LIGHT FIXTURES TO BE CONTROLLED BY OCCUPANCY SENSOR. REFER TO LIGHT FIXTURE SCHEDULE THIS SHEET FOR LIGHT FIXTURE INFORMATION.
 - 7 NO ELECTRICAL WORK WITHIN THIS AREA UNLESS NOTED OTHERWISE.

60%
SUBMITTAL
01-25-2021



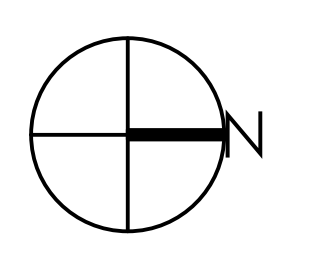
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Paul J. Fettingler

SIGNATURE:
DATE:

REVISIONS		
No.	Description	Date



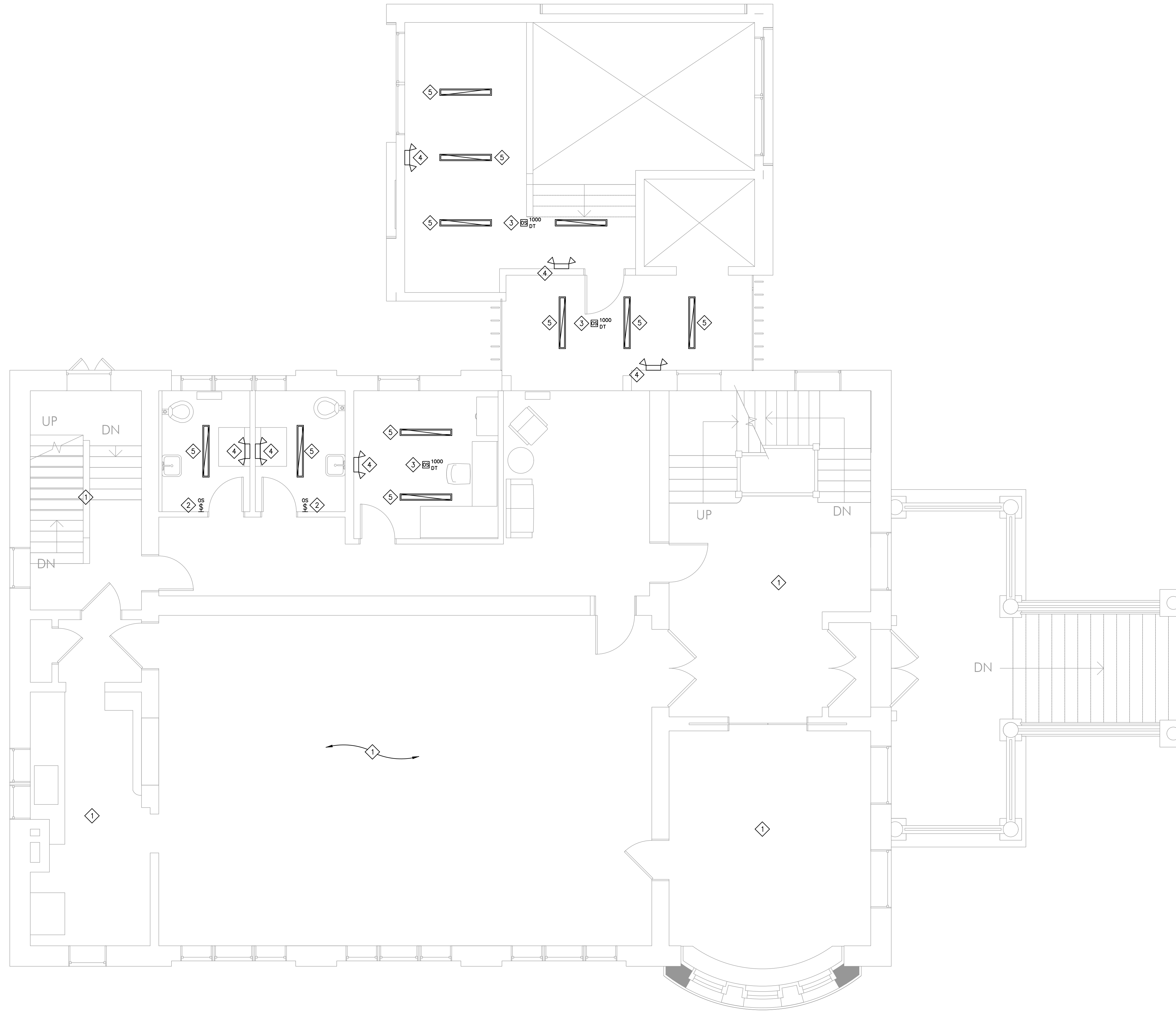
LIGHT FIXTURE SCHEDULE							
LTR TYPE	FIXTURE TYPE	MOUNTING	LAMP TYPE	VOLTAGE/BALLAST	FIXTURE DESCRIPTION	MANUFACTURER/CATALOG SERIES	NOTES
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

LIGHT FIXTURE SCHEDULE NOTES:
1. XX
2. XX

CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY: DJQ
CHECKED BY: PJF
DATE: 11/08/20
REVISIONS

LOWER LEVEL
LIGHTING PLAN

E101



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

- GENERAL NOTES**
- A. REFER TO THE ARCHITECTURAL SPECIFICATIONS DIVISION 0 AND DIVISION 1 FOR SCHEDULING REQUIREMENTS. MAINTAIN SERVICES TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION. PROVIDE TEMPORARY SERVICES AS REQUIRED.
 - B. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
 - C. DEMOLISH ALL ELECTRICAL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRE, HANGERS, ETC. IN PLACE. WHERE EXISTING BRANCH CIRCUITS ARE INTERCEPTED MAINTAIN POWER TO ALL ACTIVE DEVICES THAT REMAIN.
 - D. PROVIDE BLANK COVERPLATE FOR ALL UNUSED DEVICE BOXES.
 - E. REPLACE ALL LAY-IN CEILING TILES DAMAGED AS A RESULT OF THE ELECTRICAL WORK, UNLESS NOTED OTHERWISE.
 - F. PROVIDE NEW SUPPORT FOR ANY LOW VOLTAGE CABLES ABOVE EXISTING CEILING THAT ARE PRESENTLY SUPPORTED BY WALLS AND CEILINGS SLATED FOR DEMOLITION. PROVIDE NEW INDEPENDENT SUPPORTING OF THESE CABLES FROM STRUCTURE (SUPPORT FOR THESE CABLES IS NOT TO BE SUPPORTED FROM CEILING SUPPORT CABLES). THE REQUIREMENTS INCLUDE PROVIDING NEW INDEPENDENT SUPPORTS OF CONDUIT STUBS AND CABLE TRAY PRESENTLY ROUTED THROUGH WALLS SLATED FOR DEMOLITION.
 - G. REMOVE AND REINSTALL CEILINGS AS NEEDED FOR ELECTRICAL DEMOLITION, NEW ELECTRICAL WORK AND MODIFICATIONS TO EXISTING ELECTRICAL WORK UNLESS NOTED OTHERWISE.
 - H. THE DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ANY DEFICIENCIES AND/OR IMPERFECTIONS ON ANY DEVICE SCHEDULED TO BE REMOVED AND REINSTALLED PRIOR TO COMMENCING DEMOLITION WORK. REPORT DEFICIENCIES TO ARCHITECT/OWNER.
 - I. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOORS, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.
 - J. PATCH AND PAINT ALL WALL, FLOOR, AND CEILING SURFACES DAMAGED AS A RESULT OF THE ELECTRICAL WORK TO MATCH EXISTING FINISHES, UNLESS NOTED OTHERWISE.

- KEY NOTES**
- 1. NO ELECTRICAL WORK WITHIN THIS AREA UNLESS NOTED OTHERWISE.
 - 2. PROVIDE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. WATSTOPPER: DW-100-24. IN RESTROOMS, OCCUPANCY SENSOR SHALL CONTROL FAN AND LIGHT. PROVIDE BZ-50 POWER PACKS, AND ADDITIONAL WIRING AS REQUIRED. COORDINATE WITH MANUFACTURER. SET OCCUPANCY SENSOR TIMER TO 15 MINUTES.
 - 3. TENANT'S E.C. TO PROVIDE CEILING MOUNTED 360° DUAL TECHNOLOGY OCCUPANCY SENSOR. WATSTOPPER: DT-305. PROVIDE BZ-200 POWER PACK(S), AND ADDITIONAL WIRING AS REQUIRED. COORDINATE WITH MANUFACTURER. SET OCCUPANCY SENSOR TIMER TO 15 MINUTES.
 - 4. EXIT SIGNS, EMERGENCY AND NIGHT LIGHTING (NL) CIRCUITS ARE TO BE WIRED AHEAD OF ALL SWITCHING AND CONTACTORS.
 - 5. PROVIDE NEW LIGHTING AS INDICATED. CIRCUIT TO NEW ELECTRICAL PANEL AS INDICATED. LIGHT FIXTURES TO BE CONTROLLED BY OCCUPANCY SENSOR. REFER TO LIGHT FIXTURE SCHEDULE THIS SHEET FOR LIGHT FIXTURE INFORMATION.

60%
SUBMITTAL
01-25-2021



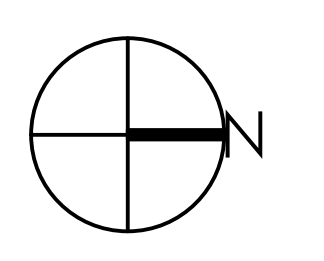
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Paul J. Fettingher

SIGNATURE: _____
DATE: _____

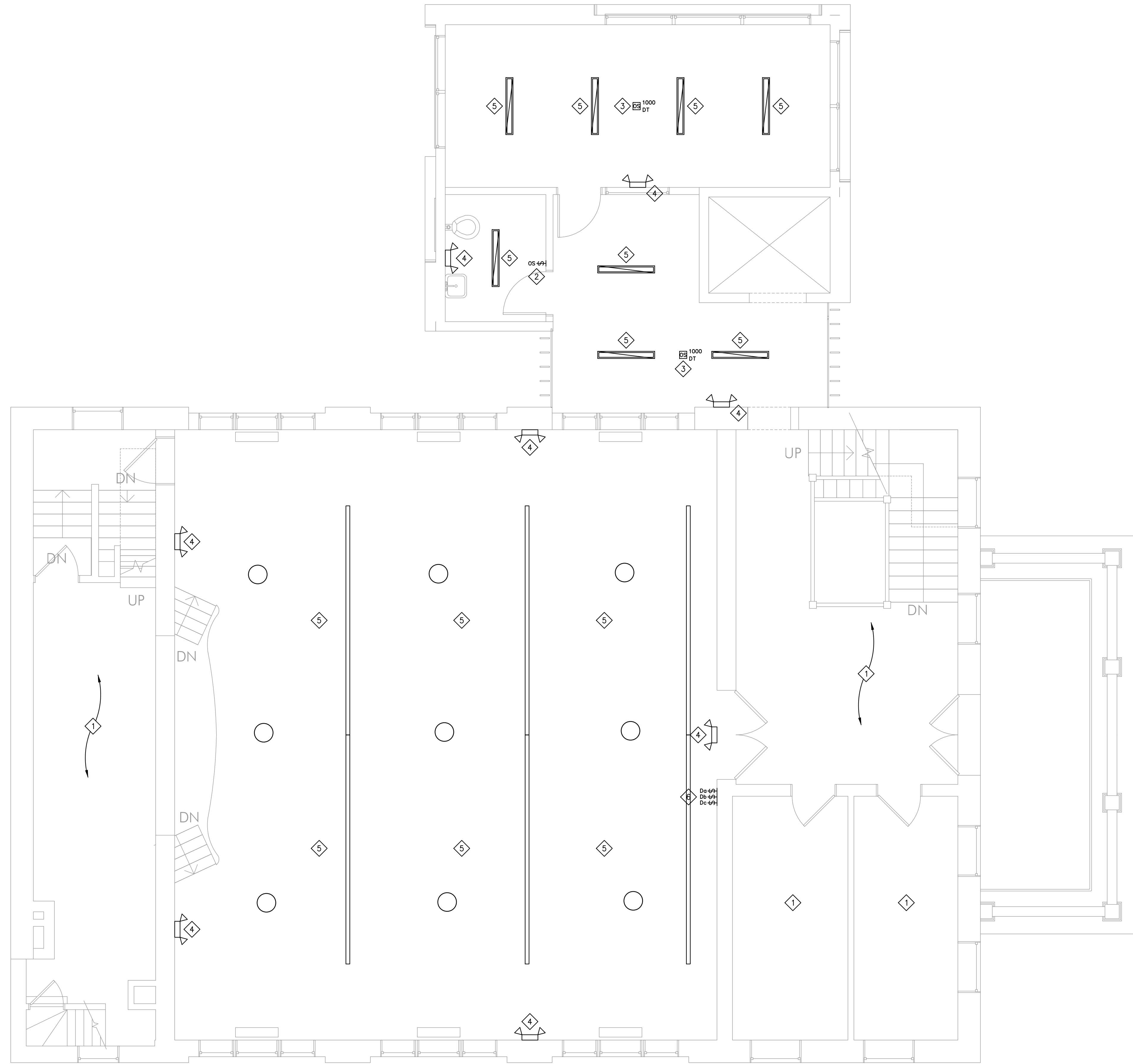
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY: DJQ
CHECKED BY: PJF
DATE: 11/08/20
REVISIONS

FIRST FLOOR
LIGHTING PLAN

E111



1 SECOND FLOOR LIGHTING PLAN
1/4" = 1'-0"

- GENERAL NOTES**
- A. REFER TO THE ARCHITECTURAL SPECIFICATIONS DIVISION 0 AND DIVISION 1 FOR SCHEDULING REQUIREMENTS. MAINTAIN SERVICES TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION. PROVIDE TEMPORARY SERVICES AS REQUIRED.
 - B. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
 - C. DEMOLISH ALL ELECTRICAL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRE, HANGERS, ETC. IN PLACE. WHERE EXISTING BRANCH CIRCUITS ARE INTERCEPTED MAINTAIN POWER TO ALL ACTIVE DEVICES THAT REMAIN.
 - D. PROVIDE BLANK COVERPLATE FOR ALL UNUSED DEVICE BOXES.
 - E. REPLACE ALL LAY-IN CEILING TILES DAMAGED AS A RESULT OF THE ELECTRICAL WORK, UNLESS NOTED OTHERWISE.
 - F. PROVIDE NEW SUPPORT FOR ANY LOW VOLTAGE CABLES ABOVE EXISTING CEILING. CEILING TILES THAT ARE PRESENTLY SUPPORTED BY WALLS AND CEILING TILES SLATED FOR DEMOLITION. PROVIDE NEW INDEPENDENT SUPPORTING OF THESE CABLES FROM STRUCTURE (SUPPORT FOR THESE CABLES IS NOT TO BE SUPPORTED FROM CEILING SUPPORT CABLES). THE REQUIREMENTS INCLUDE PROVIDING NEW INDEPENDENT SUPPORTS OF CONDUIT STUBS AND CABLE TRAY PRESENTLY ROUTED THROUGH WALLS SLATED FOR DEMOLITION.
 - G. REMOVE AND REINSTALL CEILING AS NEEDED FOR ELECTRICAL DEMOLITION, NEW ELECTRICAL WORK AND MODIFICATIONS TO EXISTING ELECTRICAL WORK UNLESS NOTED OTHERWISE.
 - H. THE DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ANY DEFICIENCIES AND/OR IMPERFECTIONS ON ANY DEVICE SCHEDULED TO BE REMOVED AND REINSTALLED PRIOR TO COMMENCING DEMOLITION WORK. REPORT DEFICIENCIES TO ARCHITECT/OWNER.
 - I. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOORS, OR CEILING COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.
 - J. PATCH AND PAINT ALL WALL, FLOOR, AND CEILING SURFACES DAMAGED AS A RESULT OF THE ELECTRICAL WORK TO MATCH EXISTING FINISHES, UNLESS NOTED OTHERWISE.

- KEY NOTES**
- 1 NO ELECTRICAL WORK WITHIN THIS AREA UNLESS NOTED OTHERWISE.
 - 2 PROVIDE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. WATTSOPPER: DW-100-24. IN RESTROOMS, OCCUPANCY SENSOR SHALL CONTROL FAN AND LIGHT. PROVIDE BZ-50 POWER PACKS, AND ADDITIONAL WIRING AS REQUIRED. COORDINATE WITH MANUFACTURER. SET OCCUPANCY SENSOR TIMER TO 15 MINUTES.
 - 3 TENANT'S E.C. TO PROVIDE CEILING MOUNTED 360° DUAL TECHNOLOGY OCCUPANCY SENSOR. WATTSOPPER: DT-305. PROVIDE BZ-200 POWER PACK(S), AND ADDITIONAL WIRING AS REQUIRED. COORDINATE WITH MANUFACTURER. SET OCCUPANCY SENSOR TIMER TO 15 MINUTES.
 - 4 EXIT SIGNS, EMERGENCY AND NIGHT LIGHTING (NL) CIRCUITS ARE TO BE WIRED AHEAD OF ALL SWITCHING AND CONTACTORS.
 - 5 PROVIDE NEW LIGHTING AS INDICATED. CIRCUIT TO NEW ELECTRICAL PANEL AS INDICATED. LIGHT FIXTURES TO BE CONTROLLED BY OCCUPANCY SENSOR. REFER TO LIGHT FIXTURE SCHEDULE THIS SHEET FOR LIGHT FIXTURE INFORMATION.
 - 6 PROVIDE COMPATIBLE 0-10V DIMMING SWITCHES FOR DIMMING CONTROL OF LOCAL LIGHTING.

60%
SUBMITTAL
01-25-2021

HALLBERG
ENGINEERING
Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax (651) 748-9370

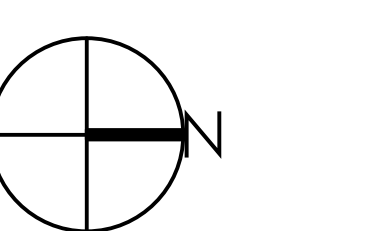
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Paul J. Fettingher

SIGNATURE: _____
DATE: _____

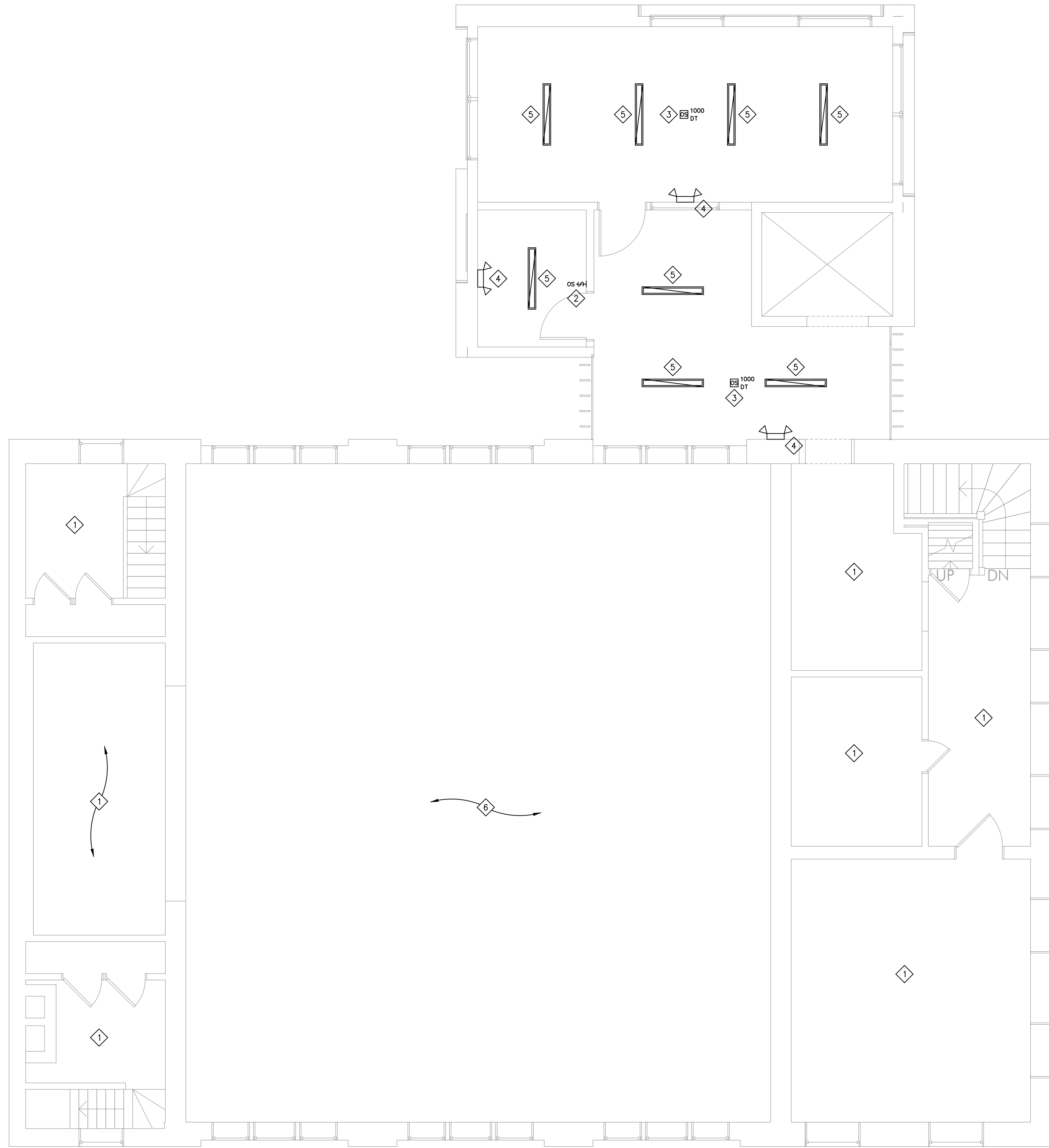
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY: DJQ
CHECKED BY: PJF
DATE: 11/08/20
REVISIONS

SECOND FLOOR
LIGHTING PLAN

E121



1 THIRD FLOOR LIGHTING PLAN
1/4" = 1'-0"

- GENERAL NOTES**
- A. REFER TO THE ARCHITECTURAL SPECIFICATIONS DIVISION 0 AND DIVISION 1 FOR SCHEDULING REQUIREMENTS. MAINTAIN SERVICES TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION. PROVIDE TEMPORARY SERVICES AS REQUIRED.
 - B. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
 - C. DEMOLISH ALL ELECTRICAL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRE, HANGERS, ETC. IN PLACE. WHERE EXISTING BRANCH CIRCUITS ARE INTERCEPTED MAINTAIN POWER TO ALL ACTIVE DEVICES THAT REMAIN.
 - D. PROVIDE BLANK COVERPLATE FOR ALL UNUSED DEVICE BOXES.
 - E. REPLACE ALL LAY-IN CEILING TILES DAMAGED AS A RESULT OF THE ELECTRICAL WORK, UNLESS NOTED OTHERWISE.
 - F. PROVIDE NEW SUPPORT FOR ANY LOW VOLTAGE CABLES ABOVE EXISTING CEILINGS THAT ARE PRESENTLY SUPPORTED BY WALLS AND CEILINGS SLATED FOR DEMOLITION. PROVIDE NEW INDEPENDENT SUPPORTING OF THESE CABLES FROM STRUCTURE (SUPPORT FOR THESE CABLES IS NOT TO BE SUPPORTED FROM CEILING SUPPORT CABLES). THE REQUIREMENTS INCLUDE PROVIDING NEW INDEPENDENT SUPPORTS OF CONDUIT STUBS AND CABLE TRAY PRESENTLY ROUTED THROUGH WALLS SLATED FOR DEMOLITION.
 - G. REMOVE AND REINSTALL CEILINGS AS NEEDED FOR ELECTRICAL DEMOLITION, NEW ELECTRICAL WORK AND MODIFICATIONS TO EXISTING ELECTRICAL WORK UNLESS NOTED OTHERWISE.
 - H. THE DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ANY DEFICIENCIES AND/OR IMPERFECTIONS ON ANY DEVICE SCHEDULED TO BE REMOVED AND REINSTALLED PRIOR TO COMMENCING DEMOLITION WORK. REPORT DEFICIENCIES TO ARCHITECT/OWNER.
 - I. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOORS, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.
 - J. PATCH AND PAINT ALL WALL, FLOOR, AND CEILING SURFACES DAMAGED AS A RESULT OF THE ELECTRICAL WORK TO MATCH EXISTING FINISHES, UNLESS NOTED OTHERWISE.

- KEY NOTES**
- 1 NO ELECTRICAL WORK WITHIN THIS AREA UNLESS NOTED OTHERWISE.
 - 2 PROVIDE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. WATTSOPPER: DW-100-24. IN RESTROOMS, OCCUPANCY SENSOR SHALL CONTROL FAN AND LIGHT. PROVIDE BZ-50 POWER PACKS, AND ADDITIONAL WIRING AS REQUIRED. COORDINATE WITH MANUFACTURER. SET OCCUPANCY SENSOR TIMER TO 15 MINUTES.
 - 3 TENANT'S E.C. TO PROVIDE CEILING MOUNTED 360° DUAL TECHNOLOGY OCCUPANCY SENSOR. WATTSOPPER: DT-305. PROVIDE BZ-200 POWER PACK(S), AND ADDITIONAL WIRING AS REQUIRED. COORDINATE WITH MANUFACTURER. SET OCCUPANCY SENSOR TIMER TO 15 MINUTES.
 - 4 EXIT SIGNS, EMERGENCY AND NIGHT LIGHTING (NL) CIRCUITS ARE TO BE WIRED AHEAD OF ALL SWITCHING AND CONTACTORS.
 - 5 PROVIDE NEW LIGHTING AS INDICATED. CIRCUIT TO NEW ELECTRICAL PANEL AS INDICATED. LIGHT FIXTURES TO BE CONTROLLED BY OCCUPANCY SENSOR. REFER TO LIGHT FIXTURE SCHEDULE THIS SHEET FOR LIGHT FIXTURE INFORMATION.
 - 6 REFER TO SHEET E121 FOR NEW LIGHTING AND LIGHTING CONTROL IN ASSEMBLY HALL.

60%
SUBMITTAL
01-25-2021



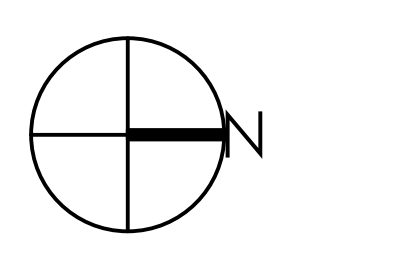
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Paul J. Fettingher

SIGNATURE: _____
DATE: _____

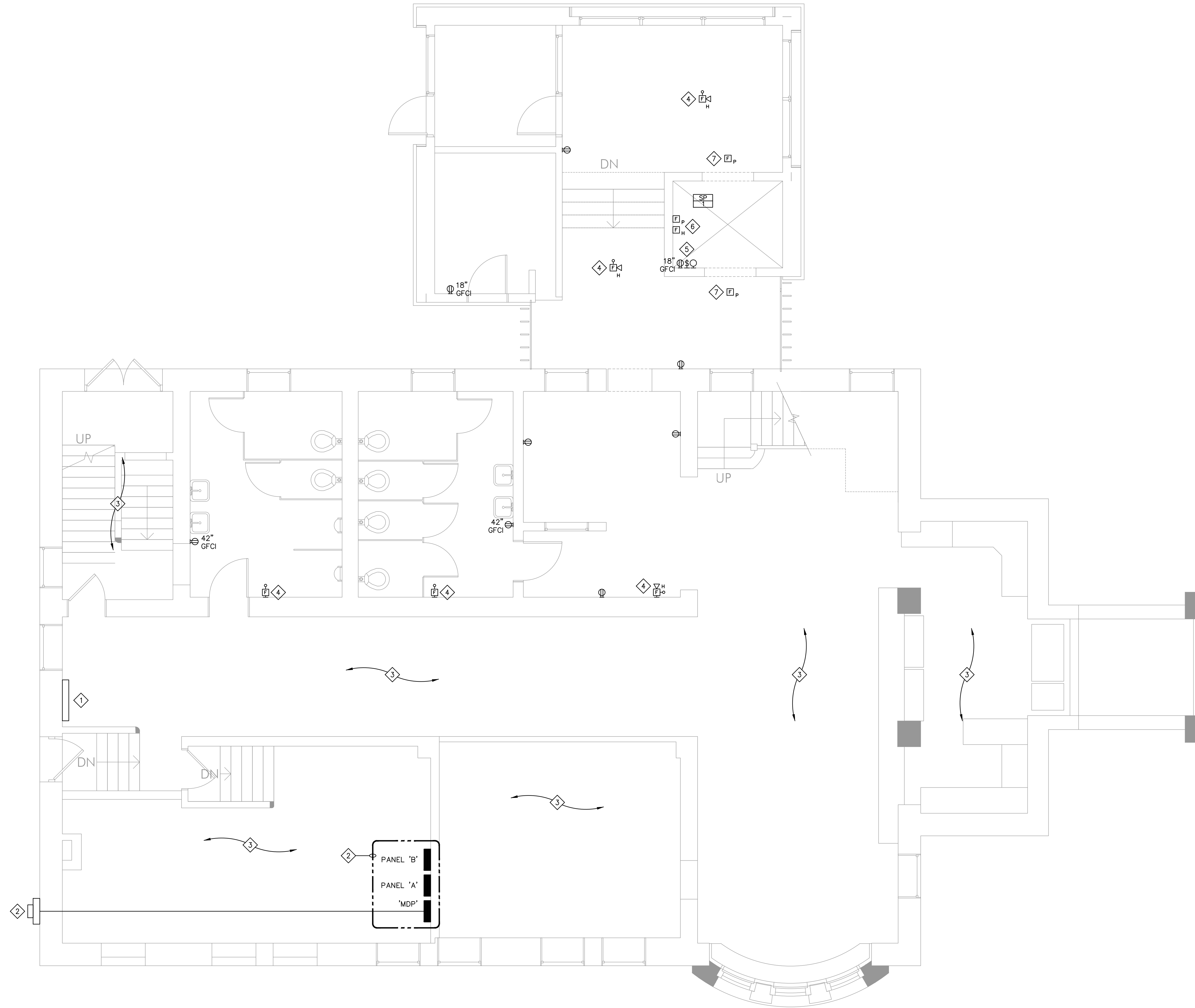
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY: DJQ
CHECKED BY: PJF
DATE: 11/08/20
REVISIONS

THIRD FLOOR
LIGHTING PLAN

E131



1 LOWER LEVEL POWER PLAN
 1/4" = 1'-0"

- GENERAL NOTES**
- REFER TO THE ARCHITECTURAL SPECIFICATIONS DIVISION 0 AND DIVISION 1 FOR SCHEDULING REQUIREMENTS. MAINTAIN SERVICES TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION. PROVIDE TEMPORARY SERVICES AS REQUIRED.
 - EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
 - DEMOLISH ALL ELECTRICAL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRE, HANGERS, ETC. IN PLACE. WHERE EXISTING BRANCH CIRCUITS ARE INTERCEPTED MAINTAIN POWER TO ALL ACTIVE DEVICES THAT REMAIN.
 - PROVIDE BLANK COVERPLATE FOR ALL UNUSED DEVICE BOXES.
 - REPLACE ALL LAY-IN CEILING TILES DAMAGED AS A RESULT OF THE ELECTRICAL WORK, UNLESS NOTED OTHERWISE.
 - PROVIDE NEW SUPPORT FOR ANY LOW VOLTAGE CABLES ABOVE EXISTING CEILING THAT ARE PRESENTLY SUPPORTED BY WALLS AND CEILINGS SLATED FOR DEMOLITION. PROVIDE NEW INDEPENDENT SUPPORTING OF THESE CABLES FROM STRUCTURE (SUPPORT FOR THESE CABLES IS NOT TO BE SUPPORTED FROM CEILING SUPPORT CABLES). THE REQUIREMENTS INCLUDE PROVIDING NEW INDEPENDENT SUPPORTS OF CONDUIT STUBS AND CABLE TRAY PRESENTLY ROUTED THROUGH WALLS SLATED FOR DEMOLITION.
 - REMOVE AND REINSTALL CEILINGS AS NEEDED FOR ELECTRICAL DEMOLITION, NEW ELECTRICAL WORK AND MODIFICATIONS TO EXISTING ELECTRICAL WORK UNLESS NOTED OTHERWISE.
 - THE DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ANY DEFICIENCIES AND/OR IMPERFECTIONS ON ANY DEVICE SCHEDULED TO BE REMOVED AND REINSTALLED PRIOR TO COMMENCING DEMOLITION WORK. REPORT DEFICIENCIES TO ARCHITECT/OWNER.
 - SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOORS, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.
 - PATCH AND PAINT ALL WALL, FLOOR, AND CEILING SURFACES DAMAGED AS A RESULT OF THE ELECTRICAL WORK TO MATCH EXISTING FINISHES, UNLESS NOTED OTHERWISE.

- KEY NOTES**
- LOCATION OF EXISTING ELECTRICAL PANELS AND RELATED EQUIPMENT BEING DEMOLISHED. INTERCEPT EXISTING ACTIVE BRANCH CIRCUITS AND EXTEND THEM TO NEW ELECTRICAL PANELS "A" AND "B" IN BOILER ROOM. MATCH EXISTING CONDUIT AND WIRE SIZES.
 - LOCATION OF NEW ELECTRICAL ELECTRICAL EQUIPMENT.
 - NO ELECTRICAL WORK WITHIN THIS AREA UNLESS NOTED OTHERWISE.
 - PROVIDE NEW FIRE ALARM DEVICES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION AND TIE INTO EXISTING FIRE ALARM PANEL. DEVICE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. FINAL LOCATIONS SHALL BE INSTALLED PER CODE AND ARE THE RESPONSIBILITY OF THE CONTRACTOR INSTALLING IT. ALL APPROVED FIRE ALARM CABLING SHALL BE INSTALLED IN CONDUIT IF REQUIRED BY LOCAL CODE.
 - PROVIDE RECEPTACLE, VAPOR TIGHT LED LIGHT FIXTURE, AND TOGGLE SWITCH FOR ON/OFF CONTROL OF LIGHT FIXTURE. SWITCH TO CONTROL LIGHT ONLY. MOUNT IN ELEVATOR PIT. COORDINATE EXACT LOCATION WITH ELEVATOR SUPPLIER AND AUTHORITY HAVING JURISDICTION.
 - PROVIDE SMOKE DETECTOR AND HEAT DETECTOR IN ELEVATOR PIT AND CONNECT TO ELEVATOR CONTROLLER PANEL AND FIRE ALARM SYSTEM. SMOKE DETECTOR IN ELEVATOR PIT SHALL CONNECT TO ELEVATOR CONTROLLER PANEL AND INTERLOCK WITH ELEVATOR SHUNT STRIP BREAKER PER ELEVATOR SPECIFICATION. FIRE ALARM SYSTEM BY OTHERS.
 - PROVIDE SMOKE DETECTOR AT ELEVATOR LANDING. CONNECT TO ELEVATOR RECALL AND TIE INTO EXISTING FIRE ALARM PANEL. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR VENDOR.

60%
 SUBMITTAL
 01-25-2021



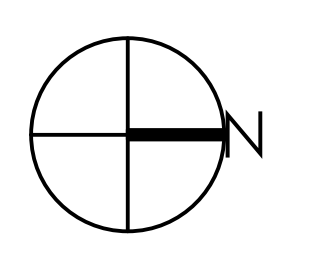
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Paul J. Fettingher

SIGNATURE:
 DATE:

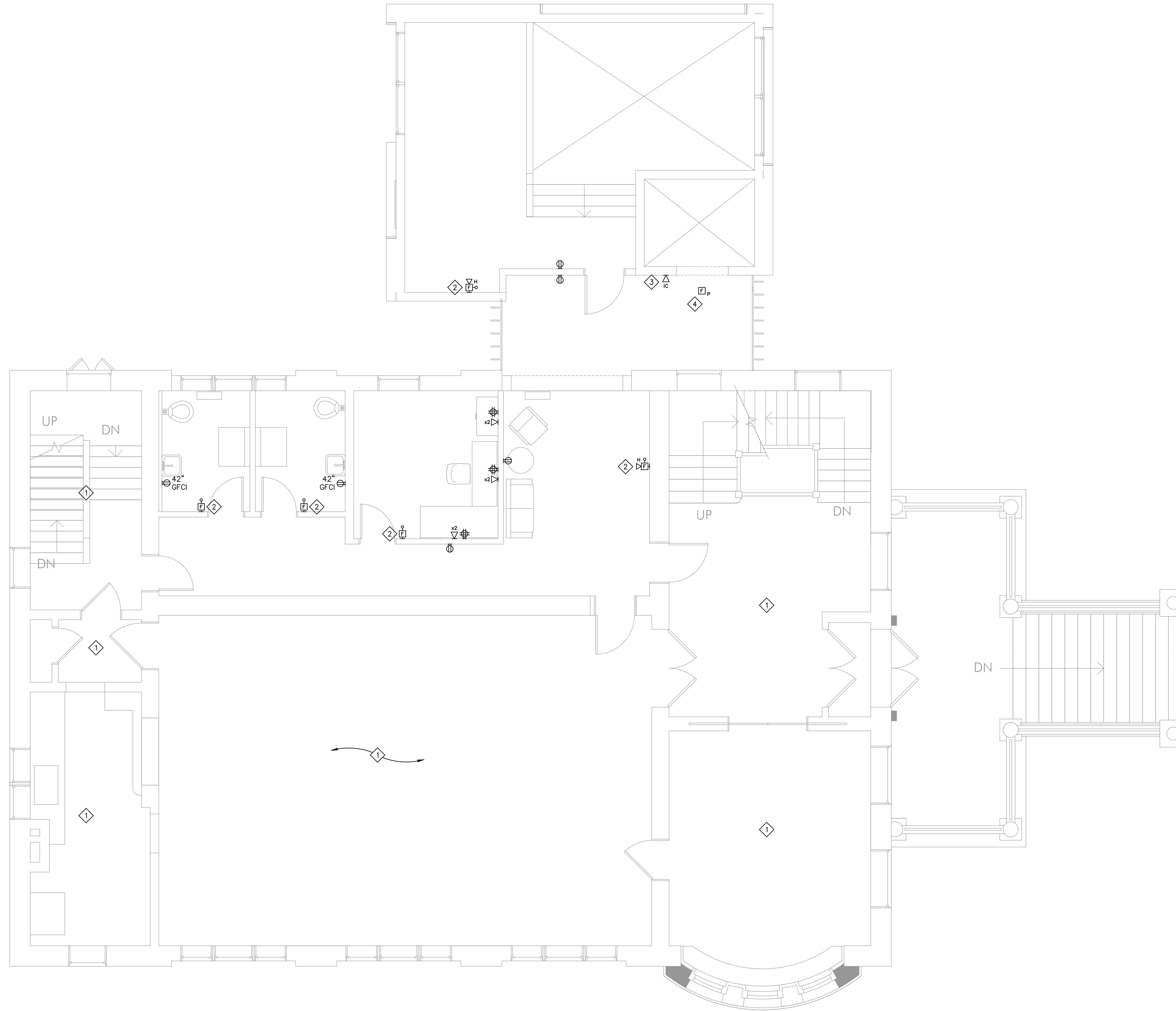
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY: DJQ
 CHECKED BY: PJF
 DATE: 11/08/20
 REVISIONS

LOWER LEVEL
 POWER PLAN

E201



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

- GENERAL NOTES**
- A. REFER TO THE ARCHITECTURAL SPECIFICATIONS DIVISION 0 AND DIVISION 1 FOR SCHEDULING REQUIREMENTS. MAINTAIN SERVICES TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION. PROVIDE TEMPORARY SERVICES AS REQUIRED.
 - B. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
 - C. DEMOLISH ALL ELECTRICAL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRE, HANGERS, ETC. IN PLACE. WHERE EXISTING BRANCH CIRCUITS ARE INTERCEPTED MAINTAIN POWER TO ALL ACTIVE DEVICES THAT REMAIN.
 - D. PROVIDE BLANK COVERPLATE FOR ALL UNUSED DEVICE BOXES.
 - E. REPLACE ALL LAY-IN CEILING TILES DAMAGED AS A RESULT OF THE ELECTRICAL WORK, UNLESS NOTED OTHERWISE.
 - F. PROVIDE NEW SUPPORT FOR ANY LOW VOLTAGE CABLES ABOVE EXISTING CEILINGS THAT ARE PRESENTLY SUPPORTED BY WALLS AND CEILINGS SLATED FOR DEMOLITION. PROVIDE NEW INDEPENDENT SUPPORTING OF THESE CABLES FROM STRUCTURE (SUPPORT FOR THESE CABLES IS NOT TO BE SUPPORTED FROM CEILING SUPPORT CABLES). THE REQUIREMENTS INCLUDE PROVIDING NEW INDEPENDENT SUPPORTS OF CONDUIT STUBS AND CABLE TRAY PRESENTLY ROUTED THROUGH WALLS SLATED FOR DEMOLITION.
 - G. REMOVE AND REINSTALL CEILINGS AS NEEDED FOR ELECTRICAL DEMOLITION, NEW ELECTRICAL WORK AND MODIFICATIONS TO EXISTING ELECTRICAL WORK UNLESS NOTED OTHERWISE.
 - H. THE DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ANY DEFICIENCIES AND/OR IMPERFECTIONS ON ANY DEVICE SCHEDULED TO BE REMOVED AND REINSTALLED PRIOR TO COMMENCING DEMOLITION WORK. REPORT DEFICIENCIES TO ARCHITECT/OWNER.
 - I. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOORS, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.
 - J. PATCH AND PAINT ALL WALL, FLOOR, AND CEILING SURFACES DAMAGED AS A RESULT OF THE ELECTRICAL WORK TO MATCH EXISTING FINISHES, UNLESS NOTED OTHERWISE.

- KEY NOTES**
- 1 NO ELECTRICAL WORK WITHIN THIS AREA UNLESS NOTED OTHERWISE.
 - 2 PROVIDE NEW FIRE ALARM DEVICES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION AND TIE INTO EXISTING FIRE ALARM PANEL. DEVICE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. FINAL LOCATIONS SHALL BE INSTALLED PER CODE AND ARE THE RESPONSIBILITY OF THE CONTRACTOR INSTALLING IT. ALL APPROVED FIRE ALARM CABLING SHALL BE INSTALLED IN CONDUIT IF REQUIRED BY LOCAL CODE.
 - 3 PROVIDE 2-WAY COMMUNICATION SYSTEM AT ELEVATOR LANDING. ALL WIRING SHALL COMPLY WITH SECTIONS 1007.8.1 AND 1007.8.2 OF THE NATIONAL ELECTRIC CODE.
 - 4 PROVIDE SMOKE DETECTOR AT ELEVATOR LANDING. CONNECT TO ELEVATOR RECALL AND TIE INTO EXISTING FIRE ALARM PANEL. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR VENDOR.

60%
SUBMITTAL
01-25-2021



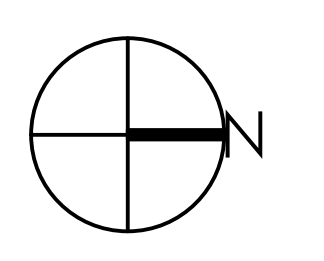
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Paul J. Fettingner

SIGNATURE: _____
DATE: _____

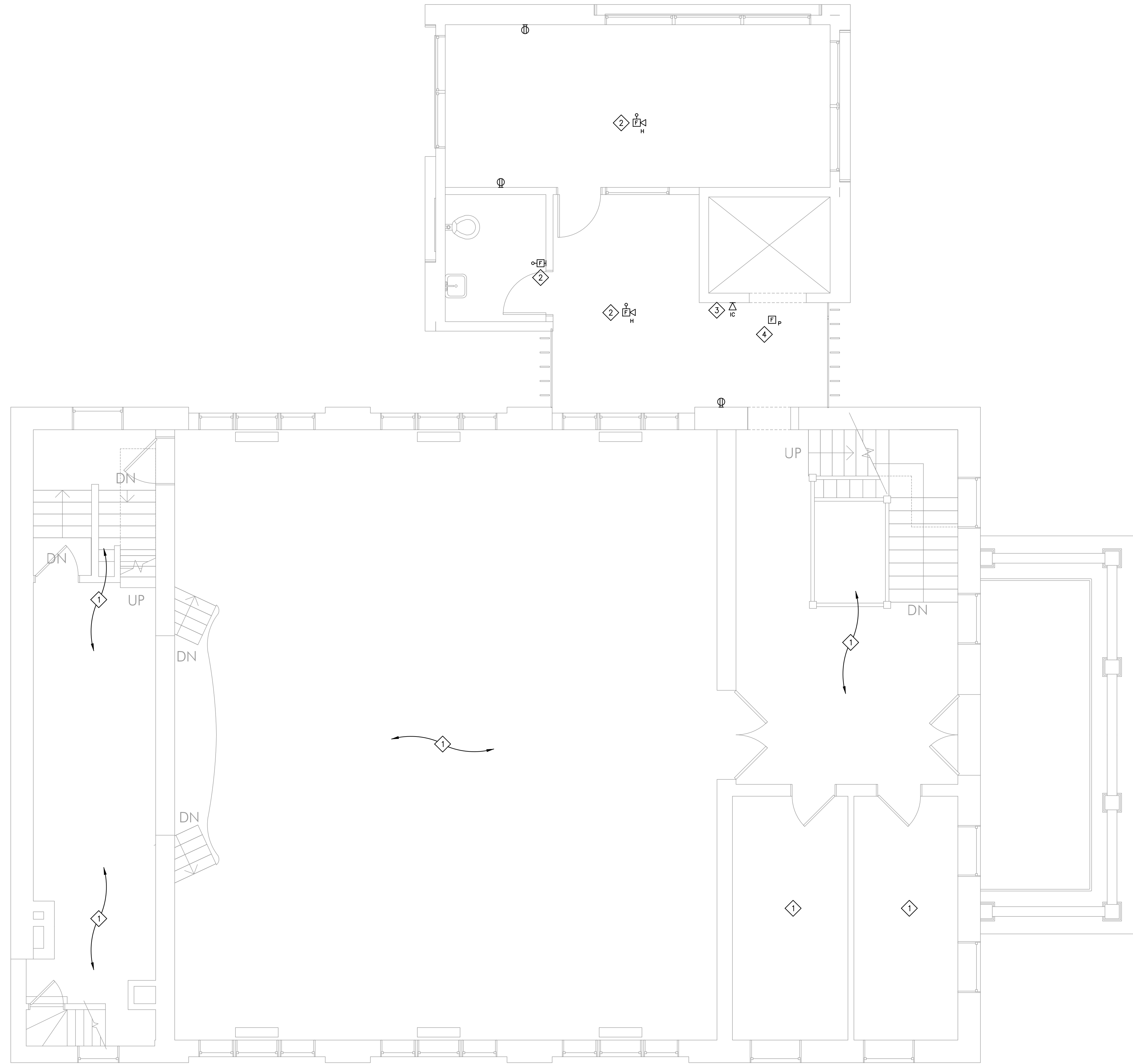
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY: DJQ
CHECKED BY: PJF
DATE: 11/08/20
REVISIONS

FIRST FLOOR
POWER PLAN

E211



1 SECOND FLOOR POWER PLAN
1/4" = 1'-0"

- GENERAL NOTES**
- A. REFER TO THE ARCHITECTURAL SPECIFICATIONS DIVISION 0 AND DIVISION 1 FOR SCHEDULING REQUIREMENTS. MAINTAIN SERVICES TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION. PROVIDE TEMPORARY SERVICES AS REQUIRED.
 - B. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
 - C. DEMOLISH ALL ELECTRICAL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRE, HANGERS, ETC. IN PLACE. WHERE EXISTING BRANCH CIRCUITS ARE INTERCEPTED MAINTAIN POWER TO ALL ACTIVE DEVICES THAT REMAIN.
 - D. PROVIDE BLANK COVERPLATE FOR ALL UNUSED DEVICE BOXES.
 - E. REPLACE ALL LAY-IN CEILING TILES DAMAGED AS A RESULT OF THE ELECTRICAL WORK, UNLESS NOTED OTHERWISE.
 - F. PROVIDE NEW SUPPORT FOR ANY LOW VOLTAGE CABLES ABOVE EXISTING CEILINGS THAT ARE PRESENTLY SUPPORTED BY WALLS AND CEILINGS SLATED FOR DEMOLITION. PROVIDE NEW INDEPENDENT SUPPORTING OF THESE CABLES FROM STRUCTURE (SUPPORT FOR THESE CABLES IS NOT TO BE SUPPORTED FROM CEILING SUPPORT CABLES). THE REQUIREMENTS INCLUDE PROVIDING NEW INDEPENDENT SUPPORTS OF CONDUIT STUBS AND CABLE TRAY PRESENTLY ROUTED THROUGH WALLS SLATED FOR DEMOLITION.
 - G. REMOVE AND REINSTALL CEILINGS AS NEEDED FOR ELECTRICAL DEMOLITION, NEW ELECTRICAL WORK AND MODIFICATIONS TO EXISTING ELECTRICAL WORK UNLESS NOTED OTHERWISE.
 - H. THE DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ANY DEFICIENCIES AND/OR IMPERFECTIONS ON ANY DEVICE SCHEDULED TO BE REMOVED AND REINSTALLED PRIOR TO COMMENCING DEMOLITION WORK. REPORT DEFICIENCIES TO ARCHITECT/OWNER.
 - I. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOORS, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.
 - J. PATCH AND PAINT ALL WALL, FLOOR, AND CEILING SURFACES DAMAGED AS A RESULT OF THE ELECTRICAL WORK TO MATCH EXISTING FINISHES, UNLESS NOTED OTHERWISE.

- KEY NOTES**
- 1 NO ELECTRICAL WORK WITHIN THIS AREA UNLESS NOTED OTHERWISE.
 - 2 PROVIDE NEW FIRE ALARM DEVICES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION AND TIE INTO EXISTING FIRE ALARM PANEL. DEVICE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. FINAL LOCATIONS SHALL BE INSTALLED PER CODE AND ARE THE RESPONSIBILITY OF THE CONTRACTOR INSTALLING IT. ALL APPROVED FIRE ALARM CABLING SHALL BE INSTALLED IN CONDUIT IF REQUIRED BY LOCAL CODE.
 - 3 PROVIDE 2-WAY COMMUNICATION SYSTEM AT ELEVATOR LANDING. ALL WIRING SHALL COMPLY WITH SECTIONS 1007.8.1 AND 1007.8.2 OF THE NATIONAL ELECTRIC CODE.
 - 4 PROVIDE SMOKE DETECTOR AT ELEVATOR LANDING. CONNECT TO ELEVATOR RECALL AND TIE INTO EXISTING FIRE ALARM PANEL. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR VENDOR.

60%
SUBMITTAL
01-25-2021



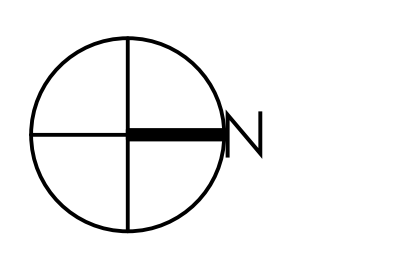
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Paul J. Fettingner

SIGNATURE: _____
DATE: _____

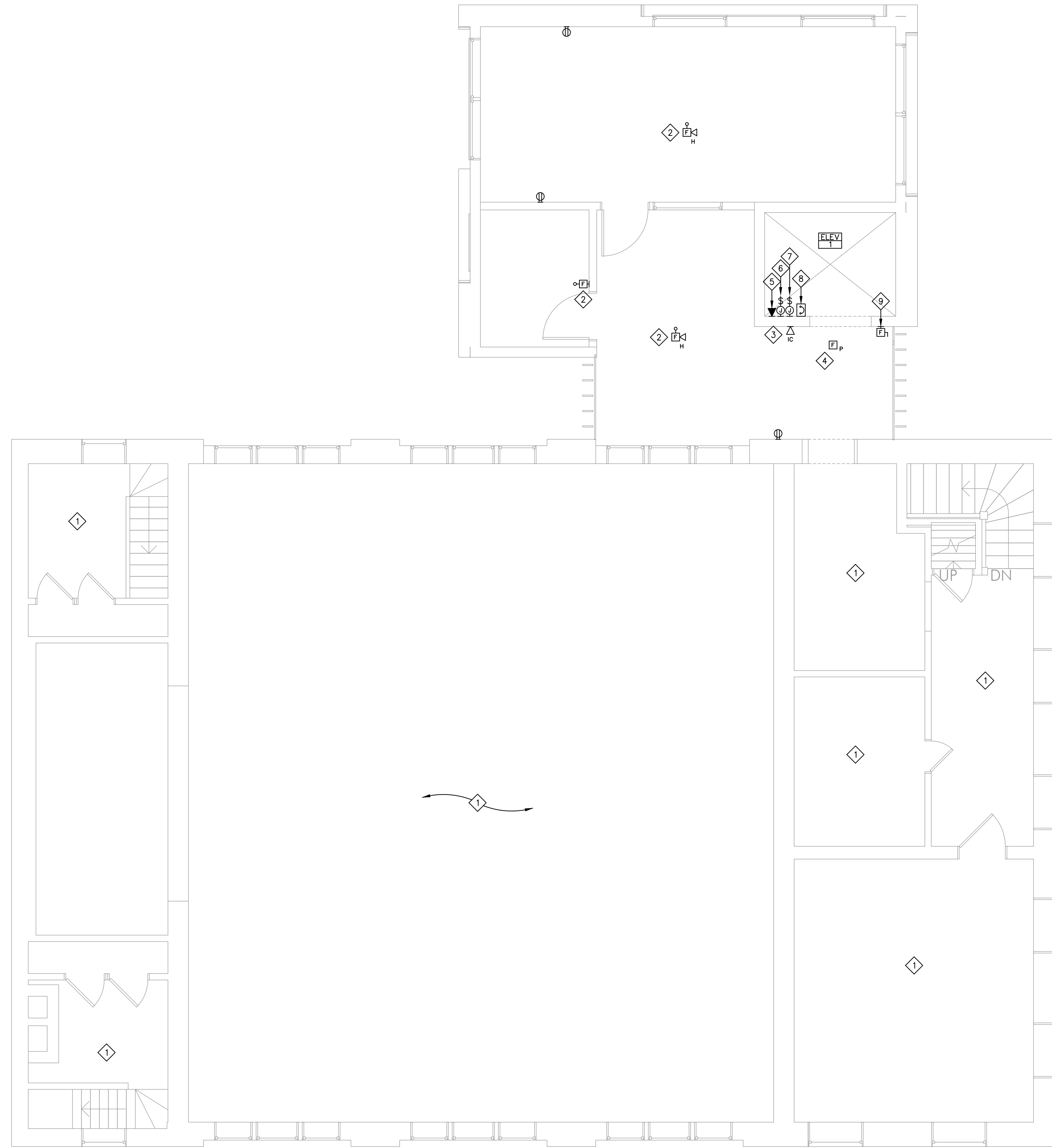
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY: DJQ
CHECKED BY: PJF
DATE: 11/08/20
REVISIONS

SECOND FLOOR
POWER PLAN

E221



1 THIRD FLOOR POWER PLAN
1/4" = 1'-0"

- GENERAL NOTES**
- A. REFER TO THE ARCHITECTURAL SPECIFICATIONS DIVISION 0 AND DIVISION 1 FOR SCHEDULING REQUIREMENTS. MAINTAIN SERVICES TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION. PROVIDE TEMPORARY SERVICES AS REQUIRED.
 - B. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
 - C. DEMOLISH ALL ELECTRICAL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRE, HANGERS, ETC. IN PLACE. WHERE EXISTING BRANCH CIRCUITS ARE INTERCEPTED MAINTAIN POWER TO ALL ACTIVE DEVICES THAT REMAIN.
 - D. PROVIDE BLANK COVERPLATE FOR ALL UNUSED DEVICE BOXES.
 - E. REPLACE ALL LAY-IN CEILING TILES DAMAGED AS A RESULT OF THE ELECTRICAL WORK, UNLESS NOTED OTHERWISE.
 - F. PROVIDE NEW SUPPORT FOR ANY LOW VOLTAGE CABLES ABOVE EXISTING CEILINGS THAT ARE PRESENTLY SUPPORTED BY WALLS AND CEILINGS SLATED FOR DEMOLITION. PROVIDE NEW INDEPENDENT SUPPORTING OF THESE CABLES FROM STRUCTURE (SUPPORT FOR THESE CABLES IS NOT TO BE SUPPORTED FROM CEILING SUPPORT CABLES). THE REQUIREMENTS INCLUDE PROVIDING NEW INDEPENDENT SUPPORTS OF CONDUIT STUBS AND CABLE TRAY PRESENTLY ROUTED THROUGH WALLS SLATED FOR DEMOLITION.
 - G. REMOVE AND REINSTALL CEILINGS AS NEEDED FOR ELECTRICAL DEMOLITION, NEW ELECTRICAL WORK AND MODIFICATIONS TO EXISTING ELECTRICAL WORK UNLESS NOTED OTHERWISE.
 - H. THE DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ANY DEFICIENCIES AND/OR IMPERFECTIONS ON ANY DEVICE SCHEDULED TO BE REMOVED AND REINSTALLED PRIOR TO COMMENCING DEMOLITION WORK. REPORT DEFICIENCIES TO ARCHITECT/OWNER.
 - I. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOORS, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.
 - J. PATCH AND PAINT ALL WALL, FLOOR, AND CEILING SURFACES DAMAGED AS A RESULT OF THE ELECTRICAL WORK TO MATCH EXISTING FINISHES, UNLESS NOTED OTHERWISE.

- KEY NOTES**
- 1 NO ELECTRICAL WORK WITHIN THIS AREA UNLESS NOTED OTHERWISE.
 - 2 PROVIDE NEW FIRE ALARM DEVICES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION AND TIE INTO EXISTING FIRE ALARM PANEL. DEVICE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. FINAL LOCATIONS SHALL BE INSTALLED PER CODE AND ARE THE RESPONSIBILITY OF THE CONTRACTOR INSTALLING IT. ALL APPROVED FIRE ALARM CABLING SHALL BE INSTALLED IN CONDUIT IF REQUIRED BY LOCAL CODE.
 - 3 PROVIDE 2-WAY COMMUNICATION SYSTEM AT ELEVATOR LANDING. ALL WIRING SHALL COMPLY WITH SECTIONS 1007.8.1 AND 1007.8.2 OF THE NATIONAL ELECTRIC CODE.
 - 4 PROVIDE SMOKE DETECTOR AT ELEVATOR LANDING. CONNECT TO ELEVATOR RECALL AND TIE INTO EXISTING FIRE ALARM PANEL. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR VENDOR.
 - 5 PROVIDE CONNECTION TO ELEVATOR TELEPHONE. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR VENDOR.
 - 6 CONNECT DEDICATED, LABELED, LOCKABLE DISCONNECT FOR ELEVATOR CAR LIGHT AND FAN. COORDINATE EXACT LOCATION OF EQUIPMENT WITH ELEVATOR VENDOR.
 - 7 CONNECT DEDICATED, LABELED, LOCKABLE FUSED DISCONNECT FOR ELEVATOR CONTROLLER. FUSE AS PER EQUIPMENT MANUFACTURER'S RECOMMENDATION. VERIFY LOCATION WITH EQUIPMENT VENDOR.
 - 8 PROVIDE 150A/3P SHUNT TRIP CIRCUIT BREAKER AND CONNECT TO ELEVATOR CONTROLLER. MOUNT ON WALL NEXT TO ELEVATOR EQUIPMENT CONTROL PANEL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR. PROVIDE A NORMALLY CLOSED CONTACT THAT OPENS ON ACTIVATION. VERIFY WITH ELEVATOR SUPPLIER. MAKE CONNECTION TO CONTROLLER FOR AUTOMATIC SHUT DOWN UPON ACTIVATION OF SMOKE, HEAT DETECTORS, AND FIRE ALARM SYSTEM.
 - 9 PROVIDE 200A/3P, FUSED DISCONNECT SWITCH WITH (3)125A FUSES FOR ELEVATOR EQUIPMENT.

60%
SUBMITTAL
01-25-2021



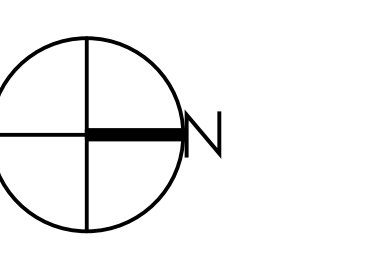
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Paul J. Fettingner

SIGNATURE: _____
DATE: _____

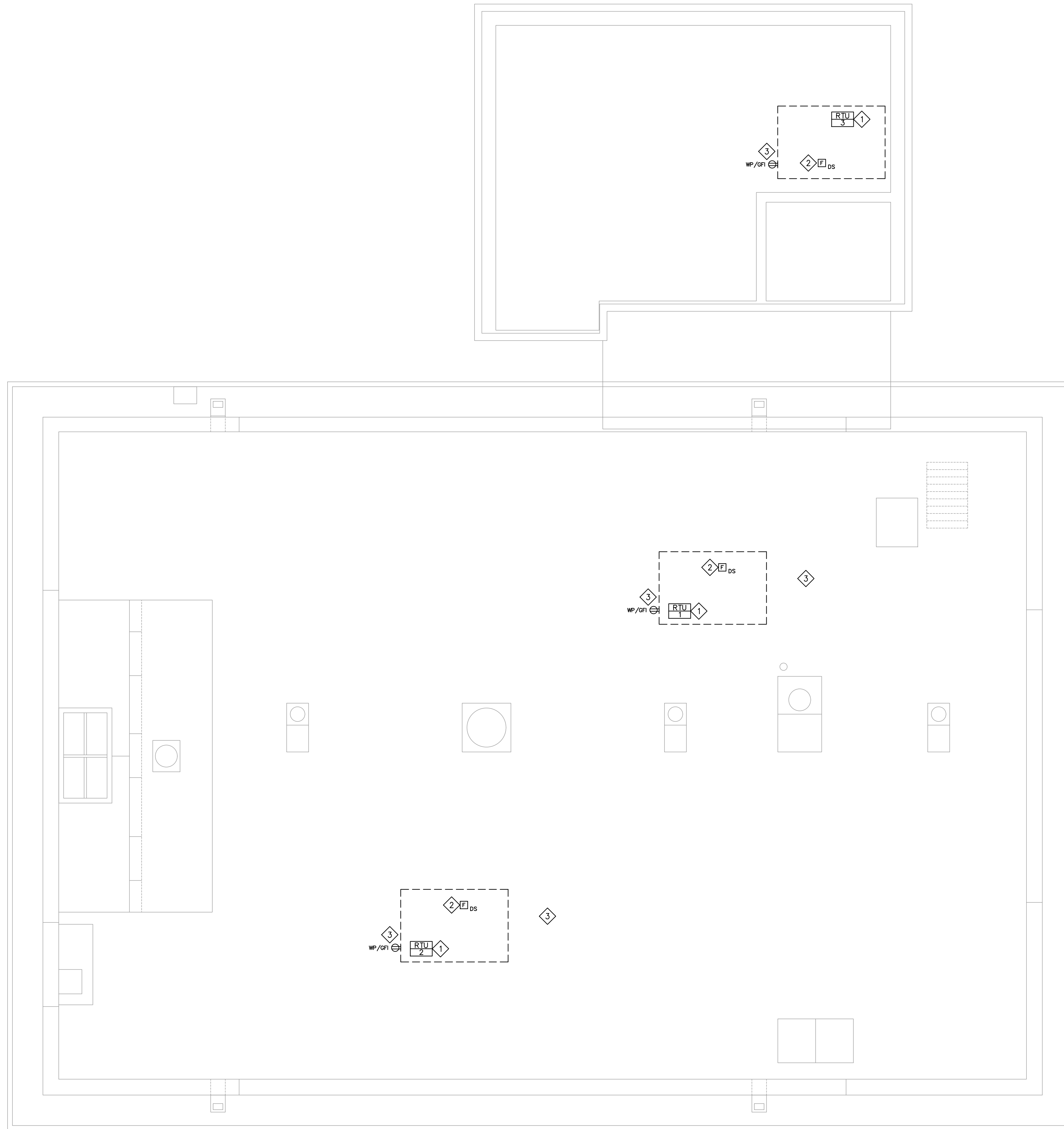
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY DJQ CHECKED BY PJF
DATE 11/08/20 REVISIONS

THIRD FLOOR
POWER PLAN

E231



1 ROOF LEVEL POWER PLAN
1/4" = 1'-0"

- GENERAL NOTES**
- A. REFER TO THE ARCHITECTURAL SPECIFICATIONS DIVISION 0 AND DIVISION 1 FOR SCHEDULING REQUIREMENTS. MAINTAIN SERVICES TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION. PROVIDE TEMPORARY SERVICES AS REQUIRED.
 - B. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
 - C. DEMOLISH ALL ELECTRICAL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRE, HANGERS, ETC. IN PLACE. WHERE EXISTING BRANCH CIRCUITS ARE INTERCEPTED MAINTAIN POWER TO ALL ACTIVE DEVICES THAT REMAIN.
 - D. PROVIDE BLANK COVERPLATE FOR ALL UNUSED DEVICE BOXES.
 - E. REPLACE ALL LAY-IN CEILING TILES DAMAGED AS A RESULT OF THE ELECTRICAL WORK, UNLESS NOTED OTHERWISE.
 - F. PROVIDE NEW SUPPORT FOR ANY LOW VOLTAGE CABLES ABOVE EXISTING CEILING THAT ARE PRESENTLY SUPPORTED BY WALLS AND CEILINGS SLATED FOR DEMOLITION. PROVIDE NEW INDEPENDENT SUPPORTING OF THESE CABLES FROM STRUCTURE (SUPPORT FOR THESE CABLES IS NOT TO BE SUPPORTED FROM CEILING SUPPORT CABLES). THE REQUIREMENTS INCLUDE PROVIDING NEW INDEPENDENT SUPPORTS OF CONDUIT STUBS AND CABLE TRAY PRESENTLY ROUTED THROUGH WALLS SLATED FOR DEMOLITION.
 - G. REMOVE AND REINSTALL CEILINGS AS NEEDED FOR ELECTRICAL DEMOLITION, NEW ELECTRICAL WORK AND MODIFICATIONS TO EXISTING ELECTRICAL WORK UNLESS NOTED OTHERWISE.
 - H. THE DIVISION 26 CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ANY DEFICIENCIES AND/OR IMPERFECTIONS ON ANY DEVICE SCHEDULED TO BE REMOVED AND REINSTALLED PRIOR TO COMMENCING DEMOLITION WORK. REPORT DEFICIENCIES TO ARCHITECT/OWNER.
 - I. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOORS, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.
 - J. PATCH AND PAINT ALL WALL, FLOOR, AND CEILING SURFACES DAMAGED AS A RESULT OF THE ELECTRICAL WORK TO MATCH EXISTING FINISHES, UNLESS NOTED OTHERWISE.

- KEY NOTES**
- 1 NEW MECHANICAL EQUIPMENT. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET EB00.
 - 2 E.C. TO FURNISH DUCT SMOKE DETECTOR. DETECTOR TO BE COMPLETE WITH AUXILIARY CONTACTS, BASE SAMPLING TUBES AND REMOTE STATUS INDICATOR/RESET SWITCH (RS). SIMPLEX OR EQUAL. DETECTOR INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE A J-BOX FOR POWER CONNECTION TO DUCT SMOKE DETECTORS. ELECTRICAL CONTRACTOR SHALL MAKE FINAL POWER AND CONTROL CONNECTIONS. COORDINATE LOCATION OF RESET SWITCHES (RS) WITH MECHANICAL CONTRACTOR.
 - 3 PROVIDE A WEATHERPROOF/GFCI RECEPTACLE AT ROOFTOP UNIT. HUBBELL MODEL #MG420C OR EQUAL.

60%
SUBMITTAL
01-25-2021



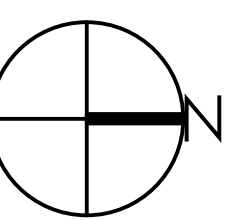
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Paul J. Fettingner

SIGNATURE: _____
DATE: _____

REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY: DJQ
CHECKED BY: PJF
DATE: 11/08/20
REVISIONS

ROOF LEVEL
POWER PLAN

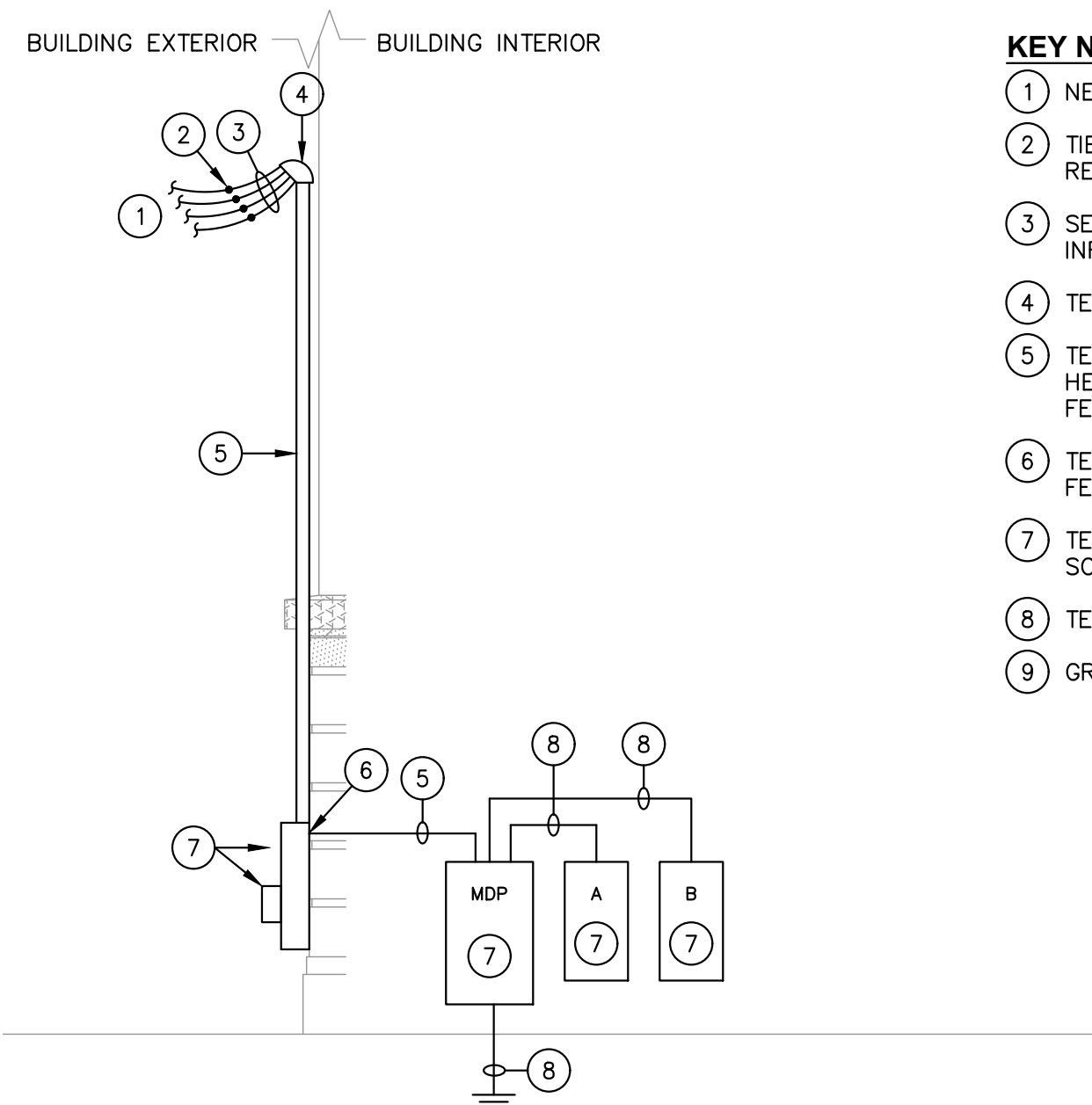
E241

MECHANICAL EQUIPMENT SCHEDULE

NAME NO.	DESCRIPTION LOCATION	V/Ø	MCA	MOPP	HP	KVA	DISC. BY DISC. SIZE	DISC. TYPE DISC. LOC.	STARTER BY STARTER SIZE	STARTER TYPE STARTER LOC.	CONTROL BY CONTROL TYPE	CONTROL LOC.	CONDUIT SIZE CONDUCTORS	PANEL NAME CIRCUIT #	OCB SIZE OCB TYPE	NOTES
AHU-1	AIR HANDLING UNIT	208/3	9	15	2.4	-	-	-	-	-	-	-	3/4" 3#12, 1#12 GND.	MDP	15A/3P C.B.	-
AHU-2	AIR HANDLING UNIT	208/3	14	20	3.7	-	-	-	-	-	-	-	3/4" 3#12, 1#12 GND.	MDP	20A/3P C.B.	-
B-1	BOILER MECHANICAL ROOM	120/1	35	50	-	-	-	-	-	-	-	-	3/4" 2#12, 1#12 GND.	MDP	20A/1P C.B.	-
B-2	BOILER MECHANICAL ROOM	120/1	35	50	-	-	-	-	-	-	-	-	3/4" 2#12, 1#12 GND.	MDP	20A/1P C.B.	-
B-3	BOILER MECHANICAL ROOM	120/1	35	50	-	-	-	-	-	-	-	-	3/4" 2#12, 1#12 GND.	MDP	20A/1P C.B.	-
B-4	BOILER MECHANICAL ROOM	120/1	35	50	-	-	-	-	-	-	-	-	3/4" 2#12, 1#12 GND.	MDP	20A/1P C.B.	-
CP-1	CIRCULATION PUMP	120/1	-	-	1/12	-	-	-	-	-	-	-	3/4" 2#12, 1#12 GND.	MDP	20A/1P C.B.	-
CU-1	CONDENSING UNIT	208/3	35	50	-	-	-	-	-	-	-	-	3/4" 3#8, 1#10 GND.	MDP	50A/3P C.B.	-
CU-2	CONDENSING UNIT	208/3	39	60	-	-	-	-	-	-	-	-	1" 3#6, 1#10 GND.	MDP	60A/3P C.B.	-
EF-1	EXHAUST FAN LOWER LVL R.R.	120/1	-	-	1/6	-	-	-	-	-	-	-	3/4" 2#12, 1#12 GND.	MDP	20A/1P C.B.	-
EF-2	EXHAUST FAN 1ST FLOOR R.R.	120/1	-	-	1/6	-	-	-	-	-	-	-	3/4" 2#12, 1#12 GND.	MDP	20A/1P C.B.	-
EF-3	EXHAUST FAN NEW ADDITION R.R.	120/1	-	-	1/12	-	-	-	-	-	-	-	3/4" 2#12, 1#12 GND.	MDP	20A/1P C.B.	-
GWH-1	GAS WATER HEATER	120/1	-	-	-	-	-	-	-	-	-	-	3/4" 2#12, 1#12 GND.	MDP	20A/1P C.B.	-
HWCP-1	HOT WATER CIRC. PUMP	120/1	-	-	1/3	-	-	-	-	-	-	-	3/4" 2#12, 1#12 GND.	MDP	20A/1P C.B.	-
HWCP-2	HOT WATER CIRC. PUMP	120/1	-	-	3/4	-	-	-	-	-	-	-	3/4" 2#12, 1#12 GND.	MDP	20A/1P C.B.	-
HWCP-3	HOT WATER CIRC. PUMP	120/1	-	-	1/2	-	-	-	-	-	-	-	3/4" 2#12, 1#12 GND.	MDP	20A/1P C.B.	-
RTU-1	ROOFTOP UNIT ROOF	208/3	41	50	-	-	-	-	-	-	-	-	3/4" 3#8, 1#10 GND.	MDP	50A/3P C.B.	-
RTU-2	ROOFTOP UNIT ROOF	208/3	41	50	-	-	-	-	-	-	-	-	3/4" 3#8, 1#10 GND.	MDP	50A/3P C.B.	-
RTU-3	ROOFTOP UNIT ROOF	208/3	54	60	-	-	-	-	-	-	-	-	1" 3#6, 1#10 GND.	MDP	60A/3P C.B.	-
SP-1	SUMP PUMP ELEVATOR PIT	120/1	-	-	1/2	-	-	-	-	-	-	-	3/4" 2#12, 1#12 GND.	MDP	20A/1P C.B.	-

MECHANICAL EQUIPMENT SCHEDULE NOTES:

1. XX
2. XX



1 POWER RISER DIAGRAM
NTS

KEY NOTES

- 1 NEW 600A, 208Y/120V, 3Ø, 4W SERVICE FEEDERS PROVIDED BY UTILITY COMPANY.
- 2 TIE-IN TO TENANT'S SERVICE FEEDER BY XCEL ENERGY. COORDINATE EXACT REQUIREMENTS WITH XCEL ENERGY REPRESENTATIVE.
- 3 SERVICE FEEDERS PROVIDED BY TENANT. REFER TO KEY NOTE 5 FOR FURTHER INFORMATION.
- 4 TENANT'S E.C. TO PROVIDE SERVICE ENTRANCE WEATHER HEADS.
- 5 TENANT'S E.C. TO PROVIDE TWO SETS OF 3"Ø-4#350 KCMIL FROM WEATHER HEADS TO ELECTRICAL PANEL "MDP" IN BOILER ROOM. LEAVE 10' OF EXCESS FEEDER WIRE AT WEATHER HEADS FOR XCEL ENERGY TIE-IN.
- 6 TENANT'S E.C. TO DRILL THROUGH WALL AND EXTEND CONDUIT AND SERVICE FEEDERS TO NEW ELECTRICAL PANEL "MDP".
- 7 TENANT'S E.C. TO PROVIDE NEW ELECTRICAL PANELS. REFER TO PANELBOARD SCHEDULES ON THIS SHEET FOR FURTHER INFORMATION.
- 8 TENANT'S E.C. TO PROVIDE 2"Ø-4#3/0, 1#6 GND.
- 9 GROUND SERVICE PER NEC REQUIREMENTS.

PANEL MDP													
Location: Stockroom		AIC RATING: 42,000										208/120 Volt, 3Ø, 4w	
Mounting: Surface												Main: C.B 400A	
Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description	
RTU-1	4.9	50/3	3	B	X				4	15/3		AHU-1	
	4.9		5		X				6				
	4.9		7		X				8				
RTU-2	4.9	50/3	9	B	X				10	20/3		AHU-2	
	4.9		11		X				12				
	6.5		13		X				14				
RTU-3	6.5	60/3	15	B	X				16	50/3		CU-1	
	6.5		17		X				18				
SPARE		20/1	19		X				20				
SPARE		20/1	21		X				22	60/3		CU-2	
SPARE		20/1	23		X				24				
SPARE		20/1	25		X				26	20/1		SPARE	
SPARE		20/1	27		X				28	20/1		SPARE	
SPARE		20/1	29		X				30	20/1		SPARE	
SPARE		20/1	31		X				32	20/1		SPARE	
SPARE		20/1	33		X				34	20/1		SPARE	
SPARE		20/1	35		X				36	20/1		SPARE	
SPARE		20/1	37		X				38	20/1		SPARE	
SPARE		20/1	39		X				40	20/1		SPARE	
SPARE		20/1	41		X				42	20/1		SPARE	
CONNECTED KVA:					A B C			DESIGN DEMAND KVA:					0.0
CONNECTED HIGH PHASE AMPS:					16.3 16.3 16.3			DESIGN DEMAND AMPS:					0.0

PANEL NOTES:
A - PROVIDE CIRCUIT BREAKER WITH LOCK-ON DEVICE.
B - PROVIDE HACR TYPE CIRCUIT BREAKER.
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

TENANT LOAD SUMMARY			
	CONNECTED KVA	DESIGN FACTOR	DESIGN DEMAND KVA
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.0	0.0
SIGN	0.0	1.25	0.0
WATER HEATER	0.0	1.0	0.0
HVAC - LARGEST	0.0	1.25	0.0
HVAC - REMAINING	0.0	1.0	0.0
HVAC - NON COINCIDENT	0.0	1.0	0.0
MISCELLANEOUS	0.0	1.0	0.0
TOTAL KVA:	0.0		0.0
TOTAL AMPS:	0.0		0.0

PANEL A													
Location: Stockroom		AIC RATING: 42,000										208/120 Volt, 3Ø, 4w	
Mounting: Surface												Main: C.B 200A	
Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description	
SPARE		20/1	1		X				2	20/1		SPARE	
SPARE		20/1	3		X				4	20/1		SPARE	
SPARE		20/1	5		X				6	20/1		SPARE	
SPARE		20/1	7		X				8	20/1		SPARE	
SPARE		20/1	9		X				10	20/1		SPARE	
SPARE		20/1	11		X				12	20/1		SPARE	
SPARE		20/1	13		X				14	20/1		SPARE	
SPARE		20/1	15		X				16	20/1		SPARE	
SPARE		20/1	17		X				18	20/1		SPARE	
SPARE		20/1	19		X				20	20/1		SPARE	
SPARE		20/1	21		X				22	20/1		SPARE	
SPARE		20/1	23		X				24	20/1		SPARE	
SPARE		20/1	25		X				26	20/1		SPARE	
SPARE		20/1	27		X				28	20/1		SPARE	
SPARE		20/1	29		X				30	20/1		SPARE	
SPARE		20/1	31		X				32	20/1		SPARE	
SPARE		20/1	33		X				34	20/1		SPARE	
SPARE		20/1	35		X				36	20/1		SPARE	
SPARE		20/1	37		X				38	20/1		SPARE	
SPARE		20/1	39		X				40	20/1		SPARE	
SPARE		20/1	41		X				42	20/1		SPARE	
CONNECTED KVA:					A B C			DESIGN DEMAND KVA:					0.0
CONNECTED HIGH PHASE AMPS:					0.0 0.0 0.0			DESIGN DEMAND AMPS:					0.0

PANEL NOTES:
A - PROVIDE CIRCUIT BREAKER WITH LOCK-ON DEVICE.
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

TENANT LOAD SUMMARY			
	CONNECTED KVA	DESIGN FACTOR	DESIGN DEMAND KVA
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.0	0.0
SIGN	0.0	1.25	0.0
WATER HEATER	0.0	1.0	0.0
HVAC - LARGEST	0.0	1.25	0.0
HVAC - REMAINING	0.0	1.0	0.0
HVAC - NON COINCIDENT	0.0	1.0	0.0
MISCELLANEOUS	0.0	1.0	0.0
TOTAL KVA:	0.0		0.0
TOTAL AMPS:	0.0		0.0

PANEL B													
Location: Stockroom		AIC RATING: 42,000										208/120 Volt, 3Ø, 4w	
Mounting: Surface												Main: C.B 400A	
Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description	
SPARE		20/1	1		X				2	20/1		SPARE	
SPARE		20/1	3		X				4	20/1		SPARE	
SPARE		20/1	5		X				6	20/1		SPARE	
SPARE		20/1	7		X				8	20/1		SPARE	
SPARE		20/1	9		X				10	20/1		SPARE	
SPARE		20/1	11		X				12	20/1		SPARE	
SPARE		20/1	13		X				14	20/1		SPARE	
SPARE		20/1	15		X				16	20/1		SPARE	
SPARE		20/1	17		X				18	20/1		SPARE	
SPARE		20/1	19		X				20	20/1		SPARE	
SPARE		20/1	21		X				22	20/1		SPARE	
SPARE		20/1	23		X				24	20/1		SPARE	
SPARE		20/1	25		X				26	20/1		SPARE	
SPARE		20/1	27		X				28	20/1		SPARE	
SPARE		20/1	29		X				30	20/1		SPARE	
SPARE		20/1	31		X				32	20/1		SPARE	
SPARE		20/1	33		X				34	20/1		SPARE	
SPARE		20/1	35		X				36	20/1		SPARE	
SPARE		20/1	37		X				38	20/1		SPARE	
SPARE		20/1	39		X				40	20/1		SPARE	
SPARE		20/1	41										

ABBREVIATIONS		HVAC SYMBOL LEGEND		PLUMBING SYMBOL LEGEND		PLUMBING LINETYPE LEGEND	
AC AFF AMP AP BEU CBV CFM CFH CHW CHWR CHWS CLG CO CR CW DB DEMO DIA DIFF DWG DY EAT ELEC ELEV EMS ESP EWB EWT EXH EXIST FSD FCO FD FDC FFE FLR FPM FT GA GAL GC GPH HP HT HVAC HW HZ ID	AIR CONDITION (-ING, -ED) ABOVE FINISHED FLOOR AMPERE (AMP, AMPS) ACCESS PANEL BRITISH THERMAL UNIT CIRCUIT BALANCING VALVE CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CIRCULATING HOT WATER CHILLED WATER RETURN CHILLED WATER SUPPLY CEILING CLEANOUT CONDENSATE RETURN COLD WATER DECIBEL DEMOLITION DIAMETER DIFFUSER DRAWING DIRECT EXPANSION ENTERING AIR TEMPERATURE ELECTRICAL ELEVATION ENERGY MANAGEMENT SYSTEM EXTERNAL STATIC PRESSURE ENTERING WET BULB ENTERING WATER TEMPERATURE EXHAUST EXISTING FAHRENHEIT COMBINATION FIRE/SMOKE DAMPER FLOOR CLEANOUT FIRE DAMPER FLOOR DRAIN FIRE DEPARTMENT CONNECTION FINISHED FLOOR ELEVATION FLOOR FEET PER MINUTE FOOT OR FEET GAGE OR GAUGE GALLONS GENERAL CONTRACTOR GALLONS PER HOUR HORSEPOWER HEIGHT HEATING, VENTILATING, AIR CONDITIONING HOT WATER HERTZ INSIDE DIAMETER	INV KW LAT LBS LWT LWB LWT MA MA MAX MEH MIN MISC NA NC NIC NTS OBD ORD PH PVC RA RD REC REL RH RM RPM SA SAN SD SF SP SPEC ST STD TD TSP TYP VFD VSD VOL VTR W W/ W/O WC WCO WT	INVERT KILOWATT LEAVING AIR TEMPERATURE POUNDS LEAVING WET BULB LEAVING WATER TEMPERATURE MIXED AIR MAXIMUM THOUSAND BTU'S/HR MINIMUM MISCELLANEOUS NOT APPLICABLE NOISE CRITERIA NOT IN CONTRACT NOT TO SCALE OUTSIDE AIR OPPOSED BLADE DAMPER OVERFLOW ROOF DRAIN PHASE (ELECTRICAL) POLYVINYL CHLORIDE RETURN AIR ROOF DRAIN RECESSED RELIEF RELATIVE HUMIDITY ROOM REVOLUTIONS PER MINUTE SUPPLY AIR SANITARY SMOKE DAMPER SQUARE FEET STATIC PRESSURE SPECIFICATION STORM STANDARD TEMPERATURE DIFFERENCE TOTAL STATIC PRESSURE TYPICAL VOLTS VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VOLUME VENT THROUGH ROOF WATTS WITH WITHOUT WATER CLOSET WALL CLEANOUT WEIGHT	DUCTWORK SUPPLY DUCT UP SUPPLY DUCT DOWN SUPPLY DUCT UP THROUGH ROOF RETURN/RELIEF DUCT UP RETURN/RELIEF DUCT DOWN RETURN/RELIEF DUCT UP THROUGH ROOF EXHAUST DUCT UP EXHAUST DUCT DOWN EXHAUST DUCT UP THROUGH ROOF MANUAL VOLUME DAMPER MOTORIZED DAMPER REMOTELY ACCESSIBLE VOLUME DAMPER FIRE DAMPER W/ACCESS PANEL FIRE/SMOKE DAMPER W/ACCESS PANEL SMOKE DAMPER W/ACCESS PANEL DUCT RISE (OR DROP) EXISTING DUCTWORK TO REMAIN EXISTING DUCTWORK TO BE REMOVED SUPPLY AIR TERMINAL RETURN/EXHAUST/TRANSFER AIR TERMINAL VAV BOX ACCESS PANEL THERMOSTAT TEMPERATURE SENSOR SMOKE DETECTOR CO2 SENSOR LONG RADIUS ELBOW SHORT RADIUS ELBOW WITH VANES DIFFUSER TYPE NECK SIZE AIRFLOW QUANTITY	FLOOR DRAIN FLOOR SINK W/HALF GRATE FLOOR SINK W/FULL GRATE BALL VALVE GATE VALVE CHECK VALVE DRAIN VALVE 2-WAY VALVE SOLENOID VALVE MOTORIZED VALVE EMERGENCY GAS SHUT-OFF VALVE THERMOSTATIC/PRESSURE BALANCE MIXING VALVE TRAP PRIMING VALVE PRESSURE RELIEF VALVE BUTTERFLY VALVE GLOBE VALVE CIRCUIT BALANCING VALVE PLUG VALVE ANCHOR PIPE FLANGE PIPE GUIDE AIR CHAMBER WATER HAMMER ARRESTER WALL HYDRANT/HOSE BIBB EXPANSION TANK WATER METER FLOW METER THERMOMETER PRESSURE GAGE STRAINER PUMP PLUMBING FIXTURE TAG FLOOR RECEPTOR TAG FLOW SWITCH 3-WAY VALVE BACKFLOW PREVENTER REDUCER FLOW ARROW STEAM TRAP (F&T) THERMOSTAT WELL EXPANSION JOINT FLEXIBLE CONNECTOR TEST PLUG STEAM TRAP (THERMOSTATIC) VACUUM RELIEF VALVE AQUASTAT PRESSURE REGULATOR PIPE DOWN PIPE UP TEE DOWN UNION PIPE CAP PIPE BREAK	DOMESTIC COLD WATER DOMESTIC COLD WATER (BELOW FLOOR/GRADE) DOMESTIC HOT WATER GAS GAS (ON ROOF) SANITARY SEWER (ABOVE FLOOR/GRADE) SANITARY SEWER (BELOW FLOOR/GRADE) VENT VENT (UNDERFLOOR/GRADE) CHWR CHWS CD HWR HWR RL RS CHILLED WATER RETURN CHILLED WATER SUPPLY CONDENSATE DRAIN HOT WATER RETURN HOT WATER REVERSE RETURN HOT WATER SUPPLY REFRIGERANT LIQUID REFRIGERANT SUCTION EQUIPMENT TAG REVISION TRIANGLE CONNECTION TO EXISTING KEY NOTE SPRINKLER HEAD (SEMI-RECESSED) SPRINKLER HEAD (UPRIGHT) SPRINKLER HEAD (FULLY RECESSED)	
EQUIPMENT TAGS						HVAC PIPING LINETYPE LEGEND	
ACCU AHU AHUP BP CDWP CEF CHWP CP CPR CUH DHC ECH EF EHC ES EUH EWC EWH FCU FPB	AIR COOLED CONDENSING UNIT AIR HANDLING UNIT AIR HANDLING UNIT PUMP BOOSTER PUMP CONDENSER WATER PUMP CEILING EXHAUST FAN CHILLED WATER PUMP CIRCULATING PUMP CONDENSATE PUMP AND RECEIVER CONDENSATE RETURN PUMP CABINET UNIT HEATER DUCT HEATING COIL ELECTRIC CABINET HEATER EXHAUST FAN ELECTRIC HEATING COIL ELECTRONIC SENSOR ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRIC WATER HEATER FAN COIL UNIT FAN POWERED VARIABLE AIR VOLUME BOX	GW HU HWP H MAU PCWP PHWP PRV REF RF RH RHU SCWP SEP SHWP SP TF USF VAV VUH WS	GAS WATER HEATER HUMIDIFIER HORIZONTAL UNIT HEATER HEATING WATER PUMP INTAKE HOOD MAKE-UP AIR UNIT PRIMARY CHILLED WATER PUMP PRIMARY HEATING WATER PUMP POWER ROOF VENTILATOR RELIEF EXHAUST FAN RETURN FAN RELIEF HOOD ROOFTOP UNIT SECONDARY CHILLED WATER PUMP SEWAGE EJECTOR PUMP SECONDARY HEATING WATER PUMP SUMP PUMP TRANSFER FAN UTILITY SET FAN VARIABLE AIR VOLUME BOX VERTICAL UNIT HEATER WATER SOFTENER			CHILLED WATER RETURN CHILLED WATER SUPPLY CONDENSATE DRAIN HOT WATER RETURN HOT WATER REVERSE RETURN HOT WATER SUPPLY REFRIGERANT LIQUID REFRIGERANT SUCTION	
						MISC. SYMBOL LEGEND	
						SHEET INDEX	
						<p>M000 MECHANICAL TITLE SHEET M001 LOWER LEVEL MECHANICAL DEMOLITION PLAN M011 FIRST FLOOR MECHANICAL DEMOLITION PLAN M021 SECOND FLOOR MECHANICAL DEMOLITION PLAN M031 THIRD FLOOR MECHANICAL DEMOLITION PLAN M041 ROOF DEMOLITION PLAN M101 LOWER LEVEL MECHANICAL PLAN M111 FIRST FLOOR MECHANICAL PLAN M121 SECOND FLOOR MECHANICAL PLAN M131 THIRD FLOOR MECHANICAL PLAN M141 ROOF PLAN M201 LOWER LEVEL PIPING PLAN M211 FIRST FLOOR PIPING PLAN M221 SECOND FLOOR PIPING PLAN M231 THIRD FLOOR PIPING PLAN M700 MECHANICAL DETAILS M800 MECHANICAL SCHEDULES P101 LOWER LEVEL PLUMBING PLAN P111 FIRST LEVEL PLUMBING PLAN P601 PLUMBING RISER DIAGRAMS P700 PLUMBING DETAILS P800 PLUMBING SCHEDULES</p>	

60%
SUBMITTAL
01-25-2021



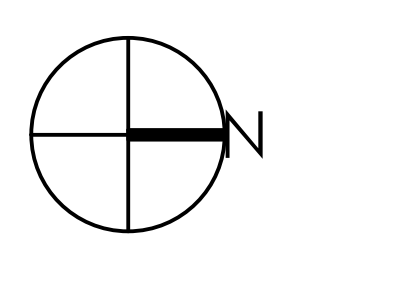
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Railroad Engineer

SIGNATURE:
DATE:

REVISIONS		
No.	Description	Date

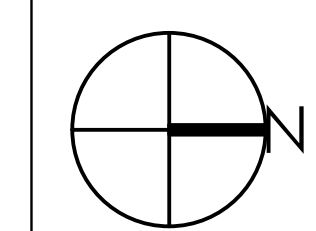


CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY: TMS
CHECKED BY: EBS/RL
DATE: 11/08/20

MECHANICAL
TITLE SHEET

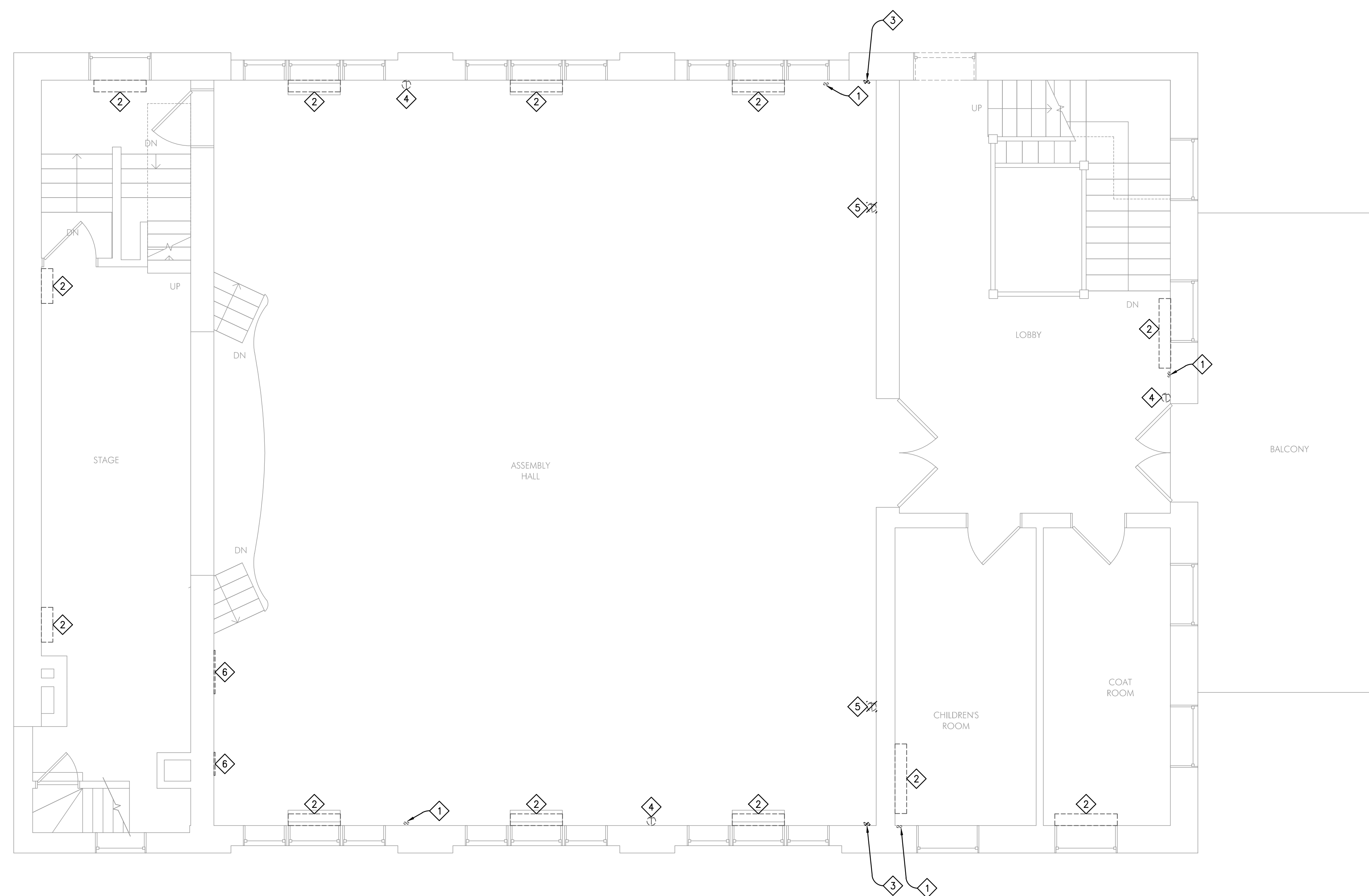
M000

REVISIONS		
No.	Description	Date

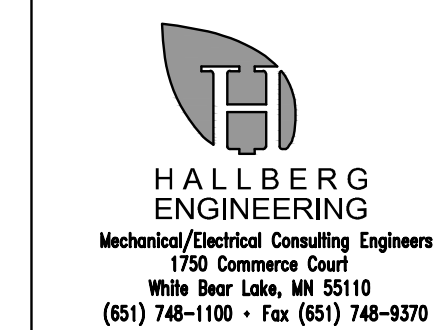


M021 KEY NOTES

1. EXISTING HOT WATER SUPPLY AND RETURN PIPING TO REMAIN.
2. EXISTING FIN-TUBED CABINET UNIT HEATER TO REMAIN.
3. EXISTING REFRIGERANT PIPING FROM FAN COIL UNIT TO CONDENSING UNIT TO BE REMOVED.
4. EXISTING THERMOSTAT FOR CABINET UNIT HEATER TO REMAIN.
5. EXISTING THERMOSTAT FOR FAN COIL UNIT TO BE REMOVED.
6. EXISTING WALL GRILLE TO REMAIN.



1 SECOND FLOOR MECHANICAL DEMOLITION PLAN
1/4" = 1'-0"



PROJECT NO.: R20-3835.002

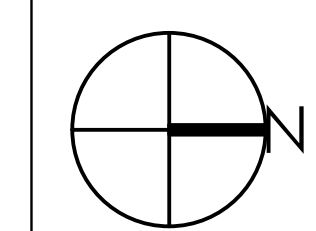
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Richard L. Lurie

SIGNATURE: _____

DATE: _____

REVISIONS		
No.	Description	Date



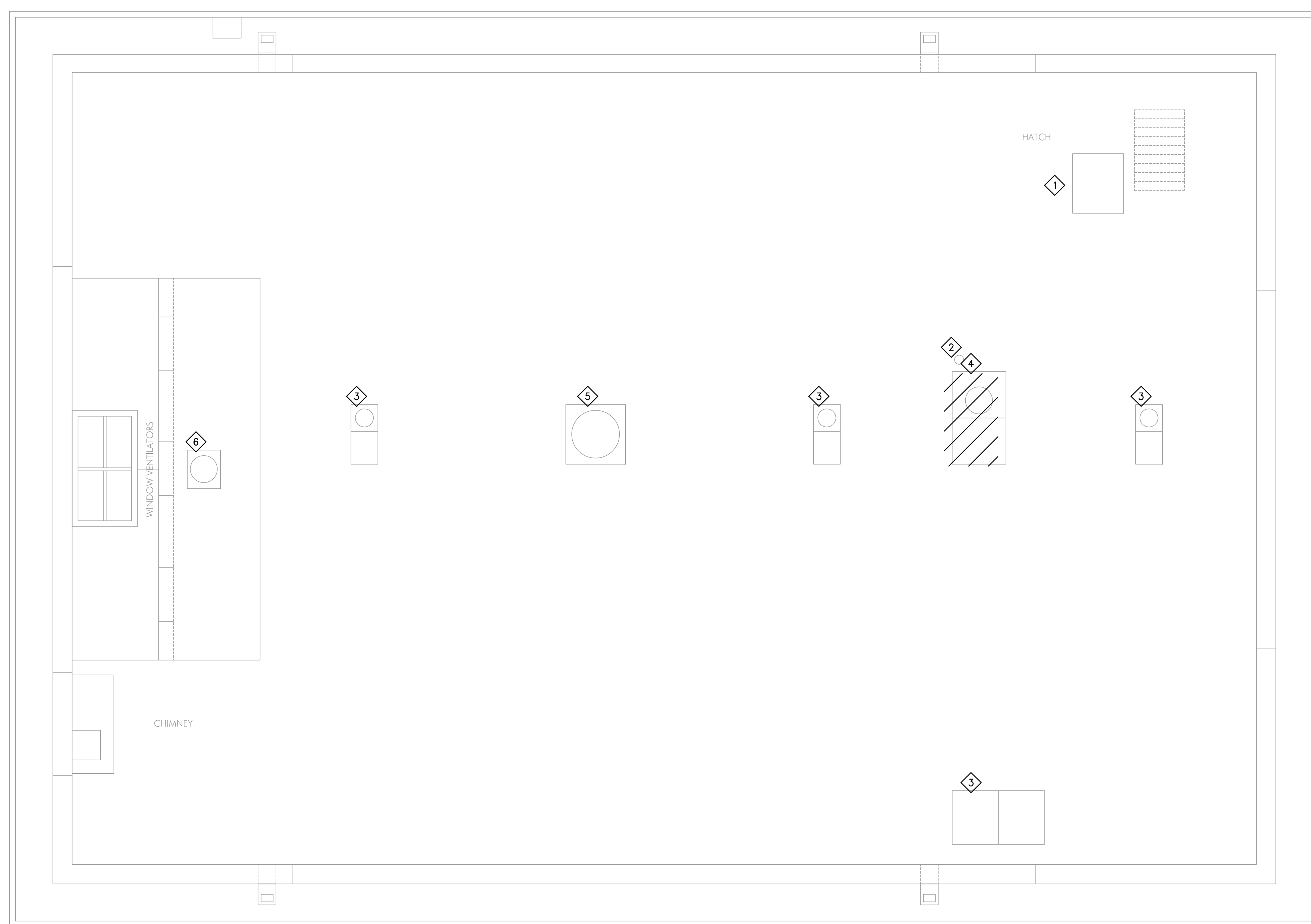
CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY TMS CHECKED BY CDS/RLL
DATE 11/08/20 REVISIONS

ROOF
DEMOLITION
PLAN

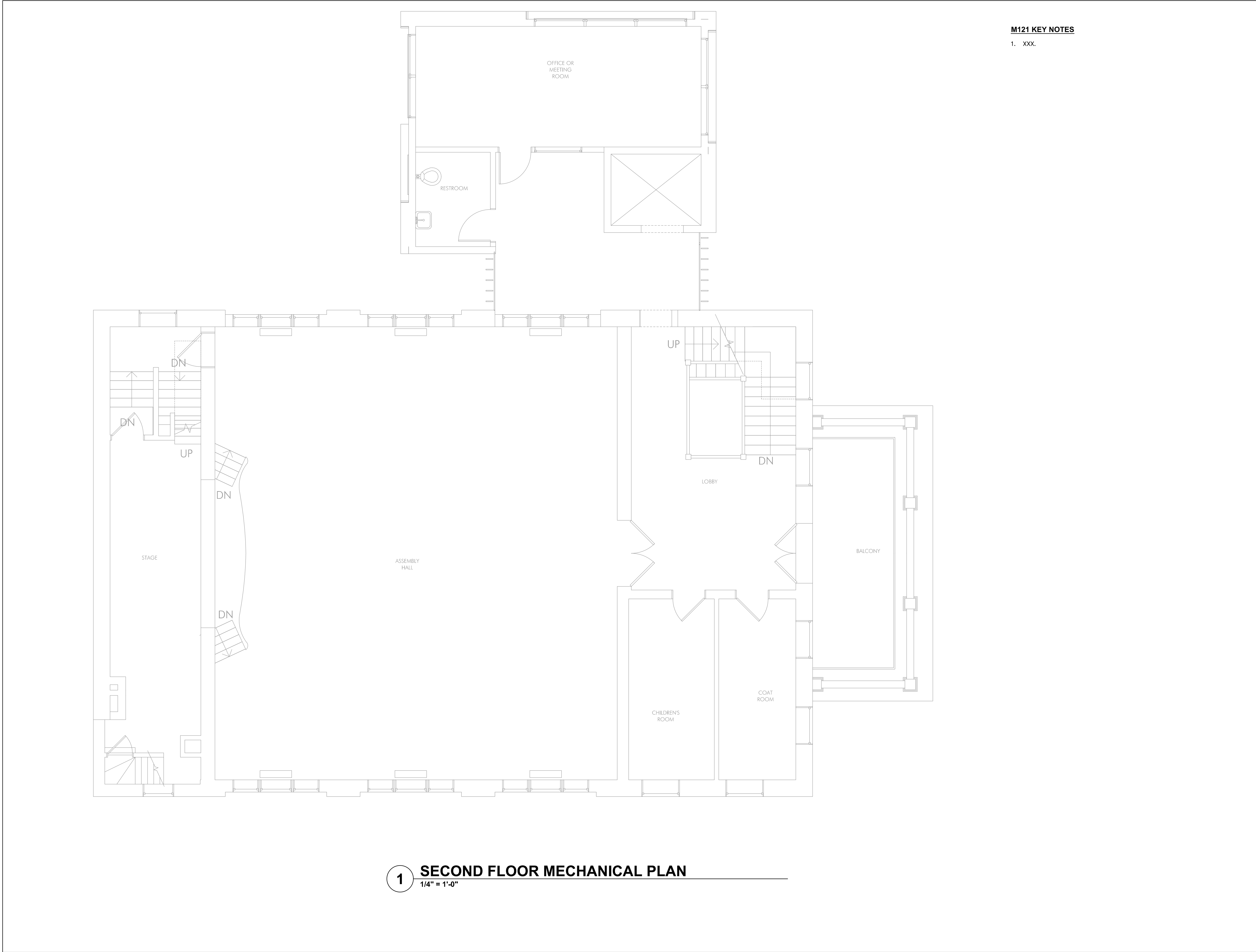
M041

M041 KEY NOTES

1. EXISTING ROOF HATCH.
2. EXISTING PLUMBING VENT TO REMAIN.
3. EXISTING ATTIC VENT TO REMAIN.
4. REMOVE EXISTING MOVING PICTURE OPERATING ROOM VENT. REPAIR/PATCH ROOF AS REQUIRED.
5. ASSEMBLY ROOM VENT.
6. STAGE AREA VENT.



1 ROOF DEMOLITION PLAN
1/4" = 1'-0"



M121 KEY NOTES
 1. XXX.

1 SECOND FLOOR MECHANICAL PLAN
 1/4" = 1'-0"

**60%
 SUBMITTAL
 01-25-2021**



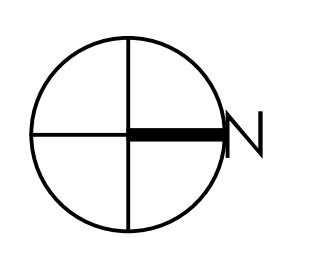
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Richard L. Lurie

SIGNATURE: _____
 DATE: _____

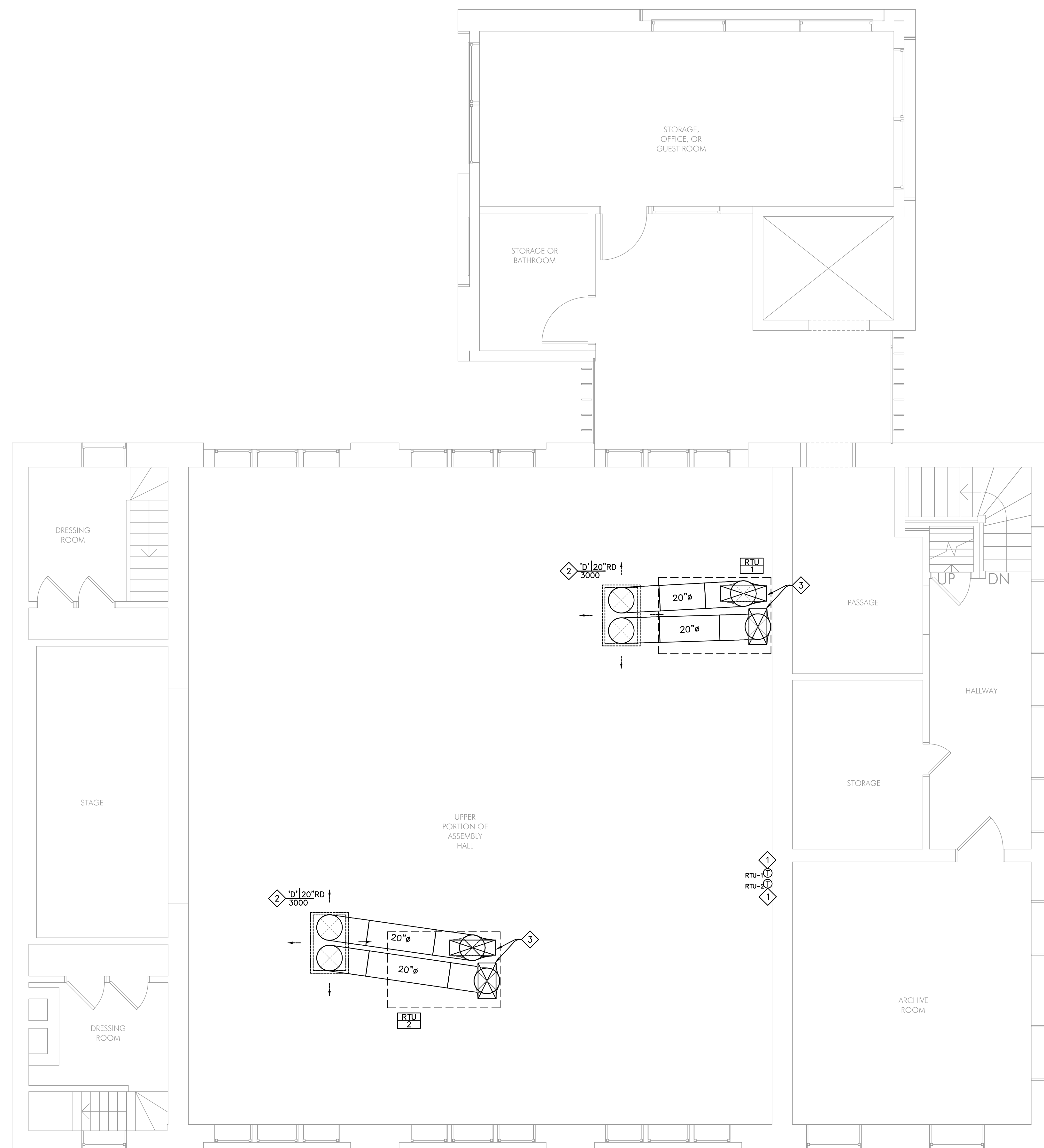
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY TMS CHECKED BY CDS/RLL
 DATE 11/08/20 REVISIONS

SECOND FLOOR
 MECHANICAL
 PLAN

M121



M131 KEY NOTES

1. CONTRACTOR TO PROVIDE NEW COMMERCIAL 7-DAY PROGRAMMABLE THERMOSTAT FOR RTU CONTROL. MOUNT AT 4'-0" A.F.F. REFER TO SPECIFICATION SECTION 15906. LABEL THERMOSTAT WITH UNIT NUMBER.
2. PROVIDE 4-WAY THROW CONCENTRIC DIFFUSER. SEE DETAIL 1/M700.
3. INSTALL 1" THICK DUCTLINER IN SUPPLY AND RETURN DUCTWORK.

1 THIRD FLOOR MECHANICAL PLAN
1/4" = 1'-0"

60%
SUBMITTAL
01-25-2021



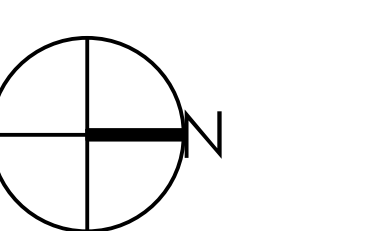
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Richard L. Lucio

SIGNATURE: _____
DATE: _____

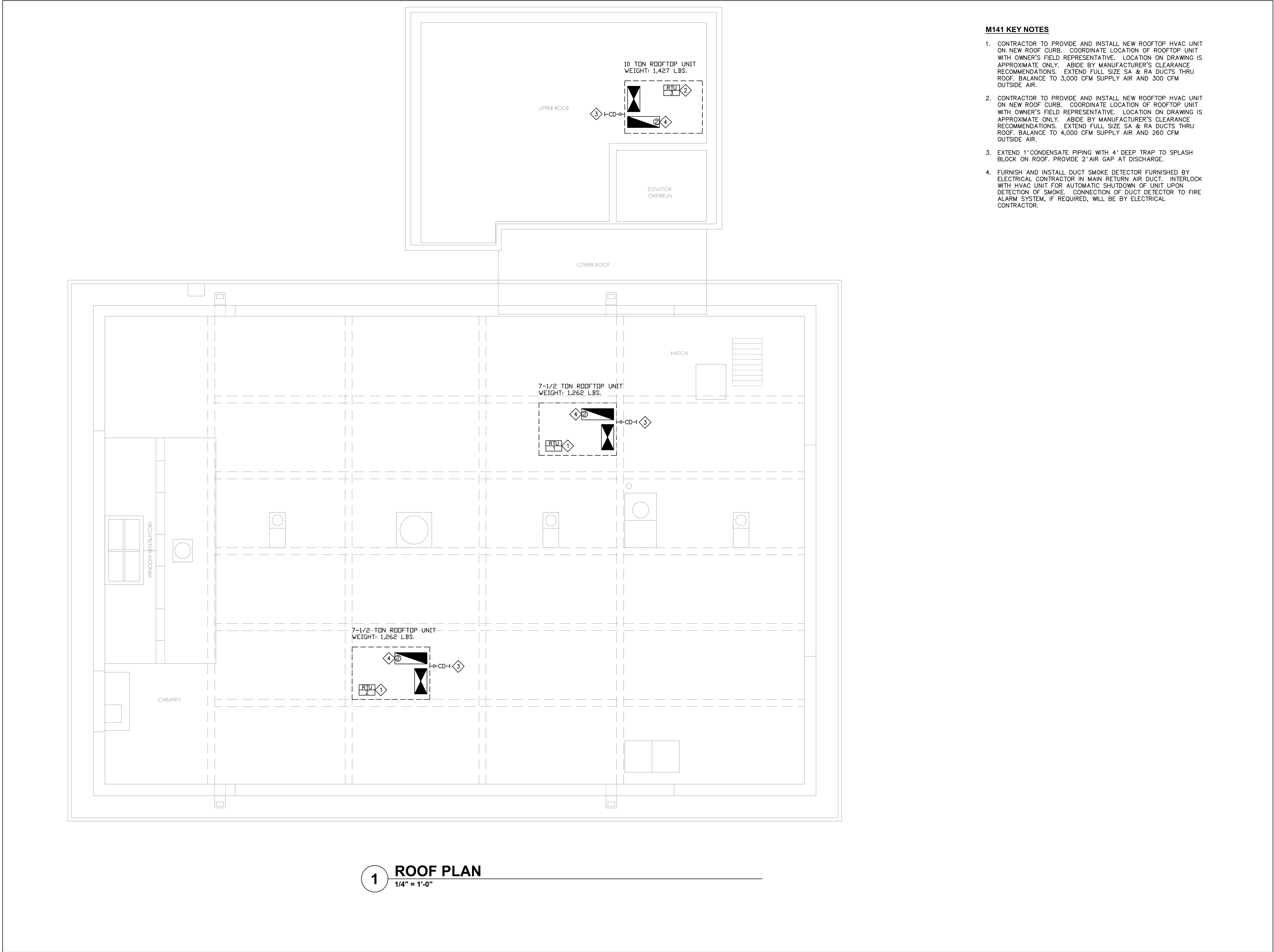
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY TMS CHECKED BY CDS/RLL
DATE 11/08/20 REVISIONS

THIRD FLOOR
MECHANICAL
PLAN

M131



M141 KEY NOTES

1. CONTRACTOR TO PROVIDE AND INSTALL NEW ROOFTOP HVAC UNIT ON NEW ROOF CURB. COORDINATE LOCATION OF ROOFTOP UNIT WITH OWNER'S FIELD REPRESENTATIVE. LOCATION ON DRAWING IS APPROXIMATE ONLY. ABIDE BY MANUFACTURER'S CLEARANCE RECOMMENDATIONS. EXTEND FULL SIZE SA & RA DUCTS THRU ROOF. BALANCE TO 3,000 CFM SUPPLY AIR AND 300 CFM OUTSIDE AIR.
2. CONTRACTOR TO PROVIDE AND INSTALL NEW ROOFTOP HVAC UNIT ON NEW ROOF CURB. COORDINATE LOCATION OF ROOFTOP UNIT WITH OWNER'S FIELD REPRESENTATIVE. LOCATION ON DRAWING IS APPROXIMATE ONLY. ABIDE BY MANUFACTURER'S CLEARANCE RECOMMENDATIONS. EXTEND FULL SIZE SA & RA DUCTS THRU ROOF. BALANCE TO 4,000 CFM SUPPLY AIR AND 260 CFM OUTSIDE AIR.
3. EXTEND 1" CONDENSATE PIPING WITH 4" DEEP TRAP TO SPLASH BLOCK ON ROOF. PROVIDE 2" AIR GAP AT DISCHARGE.
4. FURNISH AND INSTALL DUCT SMOKE DETECTOR FURNISHED BY ELECTRICAL CONTRACTOR IN MAIN RETURN AIR DUCT. INTERLOCK WITH HVAC UNIT FOR AUTOMATIC SHUTDOWN OF UNIT UPON DETECTION OF SMOKE. CONNECTION OF DUCT DETECTOR TO FIRE ALARM SYSTEM, IF REQUIRED, WILL BE BY ELECTRICAL CONTRACTOR.

1 ROOF PLAN
1/4" = 1'-0"

60%
SUBMITTAL
01-25-2021



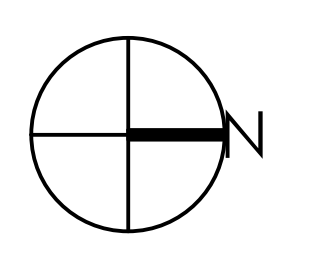
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Richard L. Lurie

SIGNATURE: _____
DATE: _____

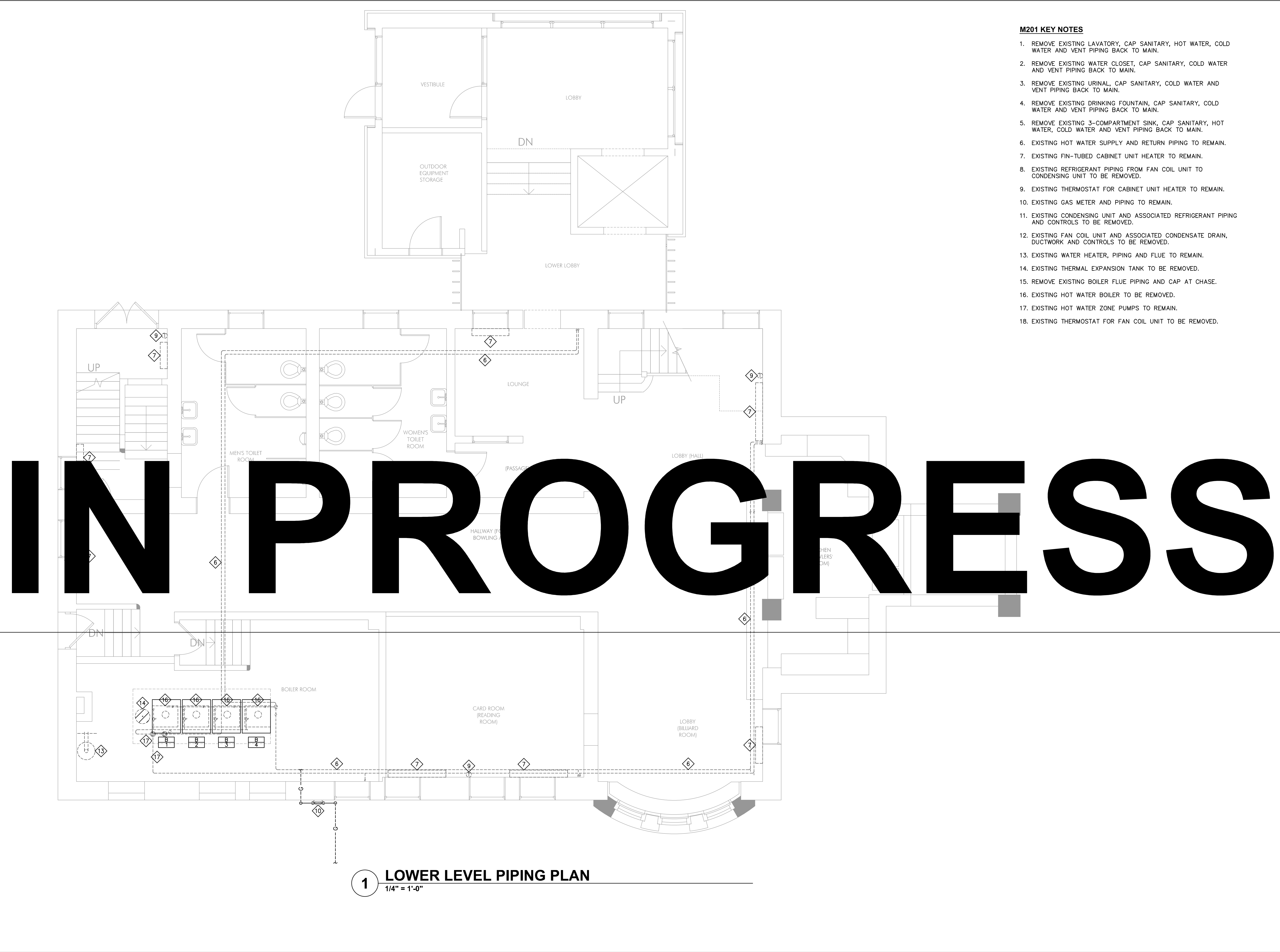
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY TMS CHECKED BY CDS/RLL
DATE 11/08/20 REVISIONS

ROOF
PLAN

M141



M201 KEY NOTES

1. REMOVE EXISTING LAVATORY, CAP SANITARY, HOT WATER, COLD WATER AND VENT PIPING BACK TO MAIN.
2. REMOVE EXISTING WATER CLOSET, CAP SANITARY, COLD WATER AND VENT PIPING BACK TO MAIN.
3. REMOVE EXISTING URINAL, CAP SANITARY, COLD WATER AND VENT PIPING BACK TO MAIN.
4. REMOVE EXISTING DRINKING FOUNTAIN, CAP SANITARY, COLD WATER AND VENT PIPING BACK TO MAIN.
5. REMOVE EXISTING 3-COMPARTMENT SINK, CAP SANITARY, HOT WATER, COLD WATER AND VENT PIPING BACK TO MAIN.
6. EXISTING HOT WATER SUPPLY AND RETURN PIPING TO REMAIN.
7. EXISTING FIN-TUBED CABINET UNIT HEATER TO REMAIN.
8. EXISTING REFRIGERANT PIPING FROM FAN COIL UNIT TO CONDENSING UNIT TO BE REMOVED.
9. EXISTING THERMOSTAT FOR CABINET UNIT HEATER TO REMAIN.
10. EXISTING GAS METER AND PIPING TO REMAIN.
11. EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING AND CONTROLS TO BE REMOVED.
12. EXISTING FAN COIL UNIT AND ASSOCIATED CONDENSATE DRAIN, DUCTWORK AND CONTROLS TO BE REMOVED.
13. EXISTING WATER HEATER, PIPING AND FLUE TO REMAIN.
14. EXISTING THERMAL EXPANSION TANK TO BE REMOVED.
15. REMOVE EXISTING BOILER FLUE PIPING AND CAP AT CHASE.
16. EXISTING HOT WATER BOILER TO BE REMOVED.
17. EXISTING HOT WATER ZONE PUMPS TO REMAIN.
18. EXISTING THERMOSTAT FOR FAN COIL UNIT TO BE REMOVED.

1 LOWER LEVEL PIPING PLAN
1/4" = 1'-0"

60%
SUBMITTAL
01-25-2021



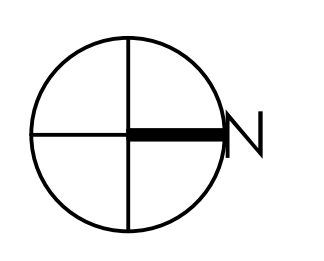
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Richard L. Lucio

SIGNATURE: _____
DATE: _____

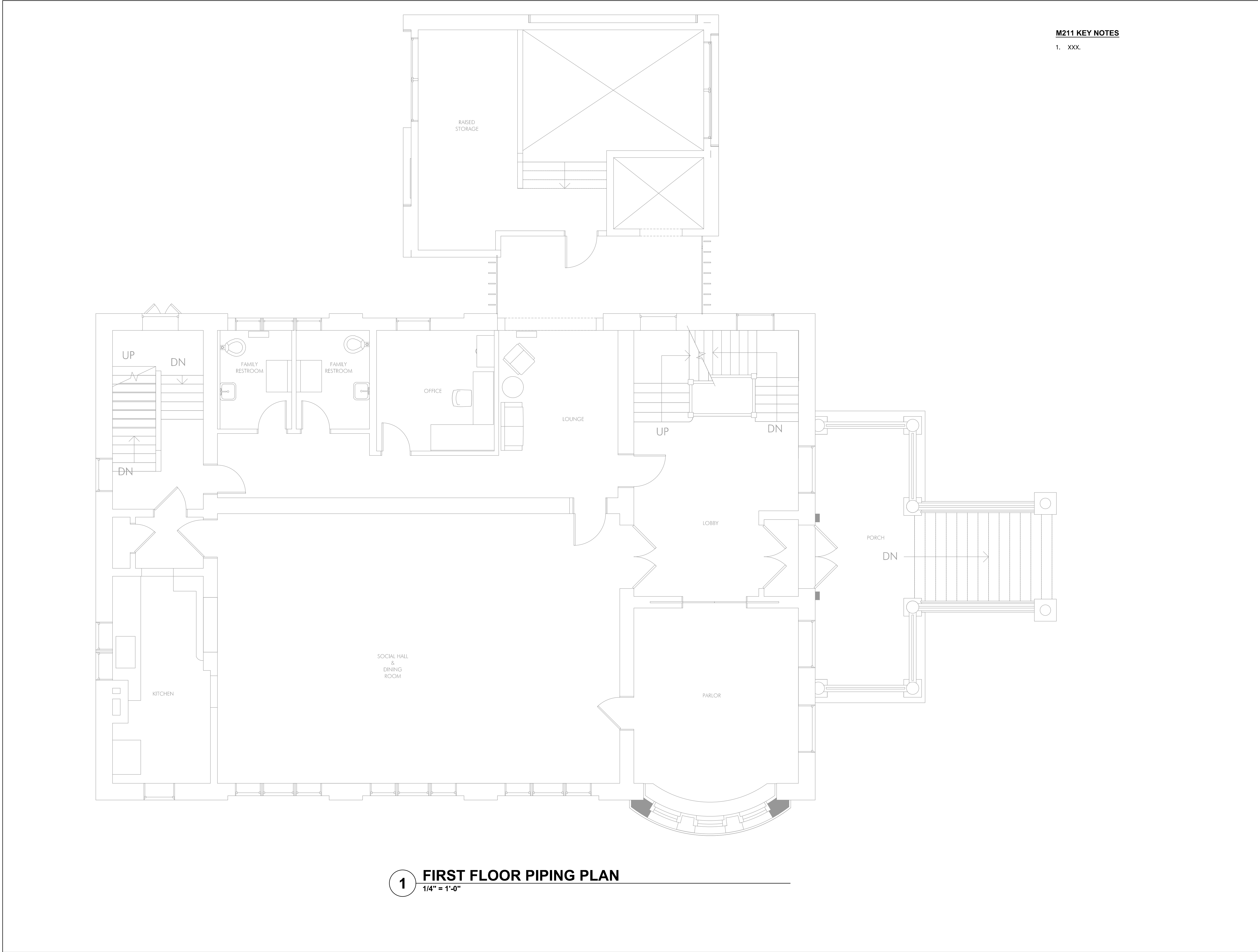
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY TMS CHECKED BY CDS/RLL
DATE 11/08/20 REVISIONS

LOWER LEVEL
PIPING PLAN

M201



M211 KEY NOTES
 1. XXX.

1 FIRST FLOOR PIPING PLAN
 1/4" = 1'-0"

**60%
 SUBMITTAL
 01-25-2021**



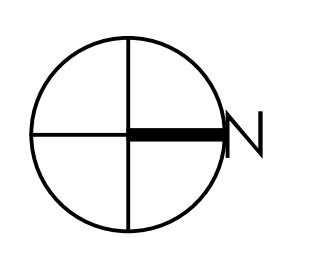
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Richard L. Lurie

SIGNATURE: _____
 DATE: _____

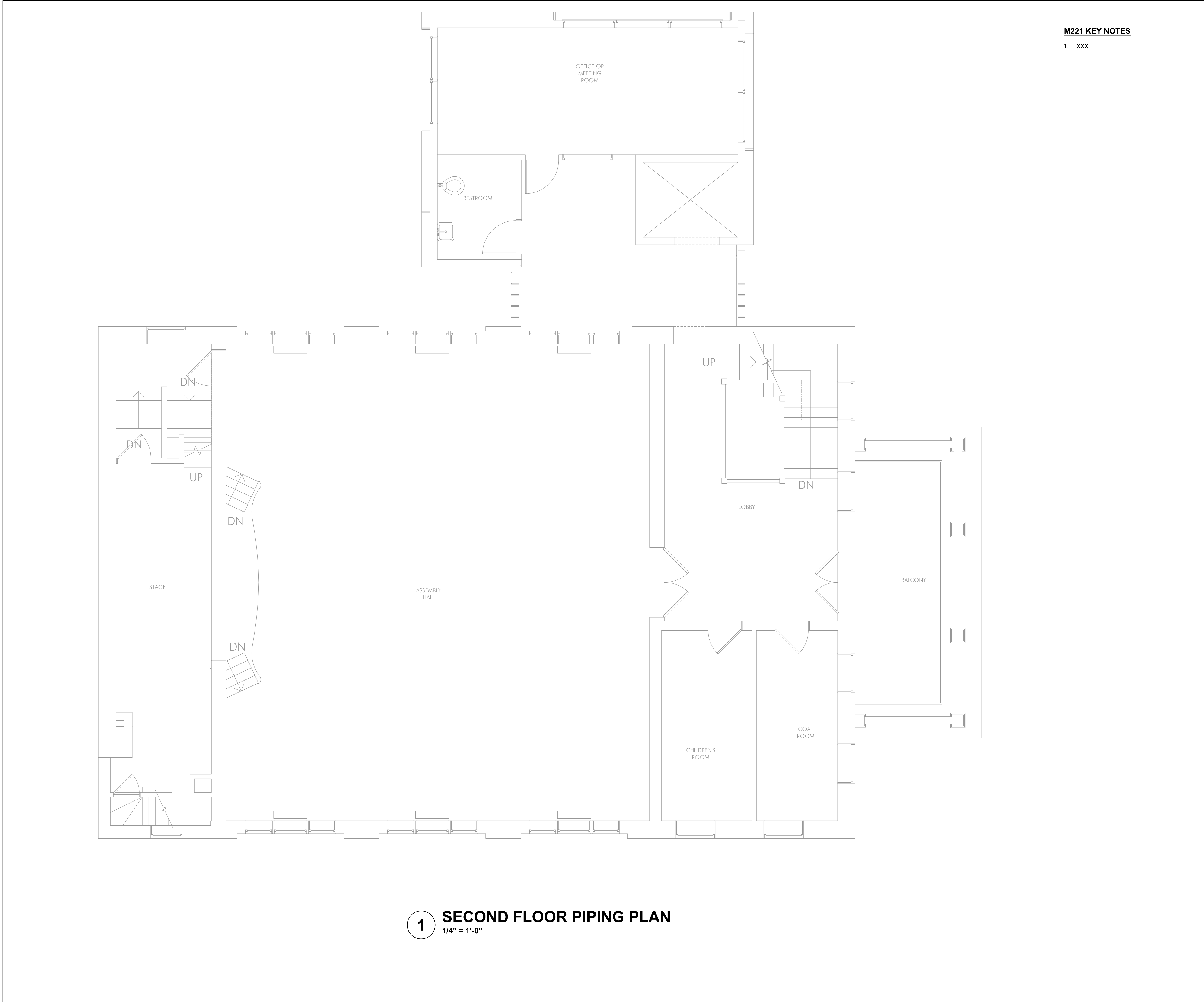
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY TMS CHECKED BY CDS/RLL
 DATE 11/08/20 REVISIONS

FIRST FLOOR
 PIPING PLAN

M211



M221 KEY NOTES
1. XXX

60%
SUBMITTAL
01-25-2021



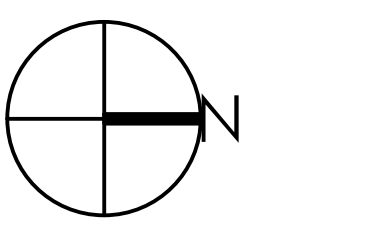
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Richard L. Lurie

SIGNATURE: _____
DATE: _____

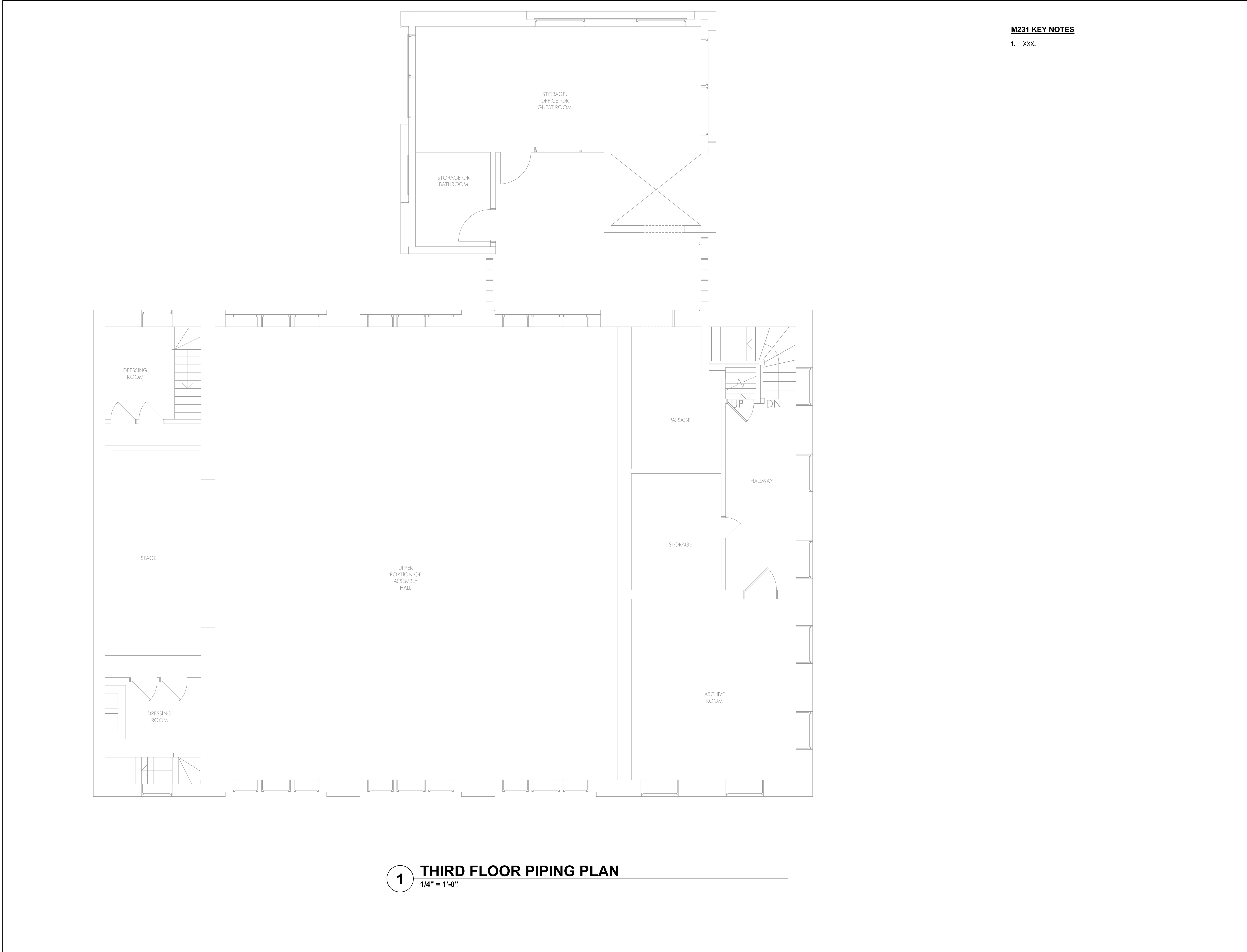
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY TMS CHECKED BY CDS/RLL
DATE 11/08/20 REVISIONS

SECOND FLOOR
PIPING PLAN

M221



60%
SUBMITTAL
01-25-2021



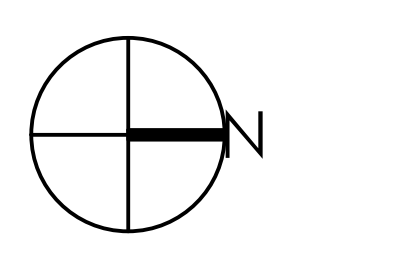
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Richard L. Lurie

SIGNATURE: _____
DATE: _____

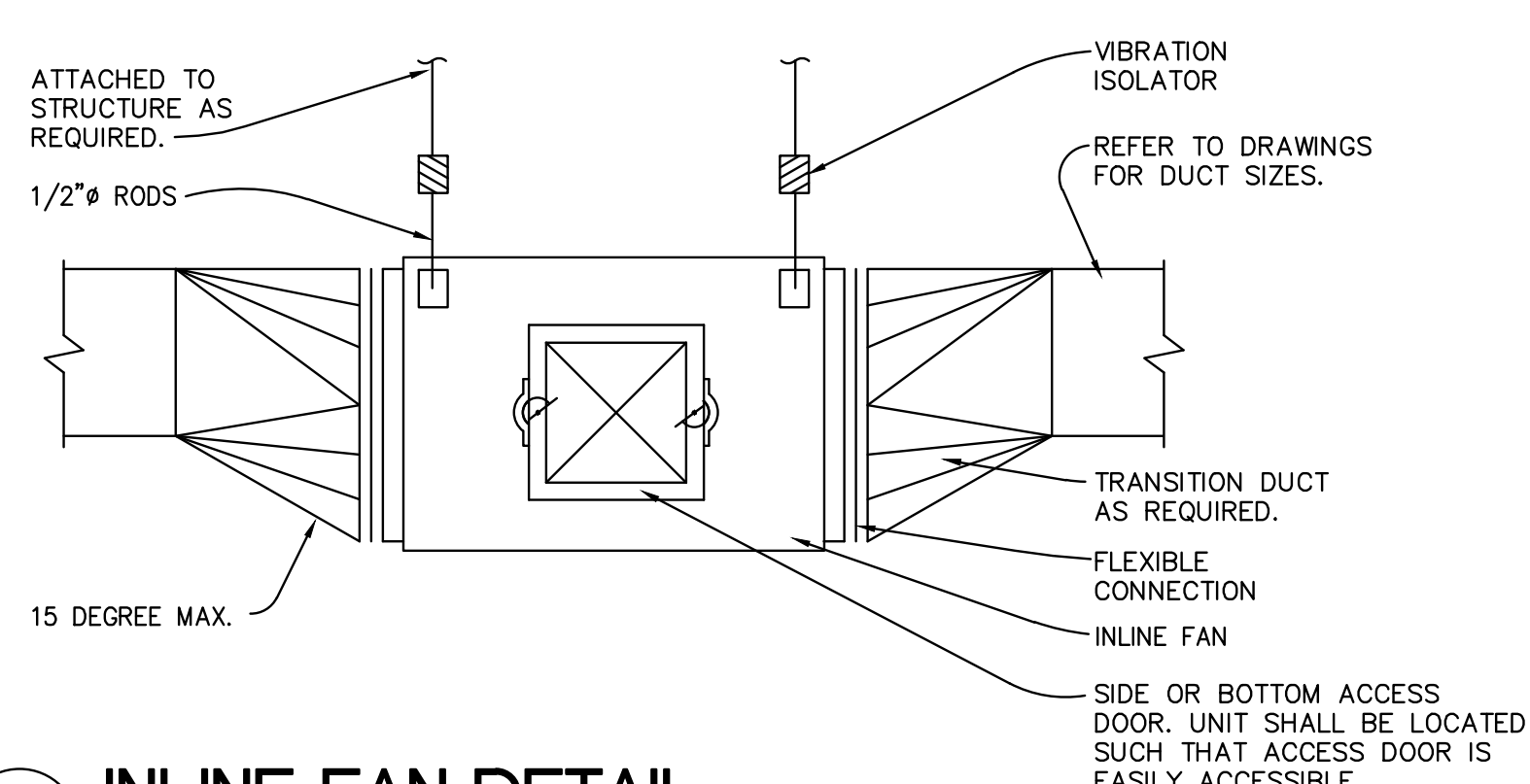
REVISIONS		
No.	Description	Date



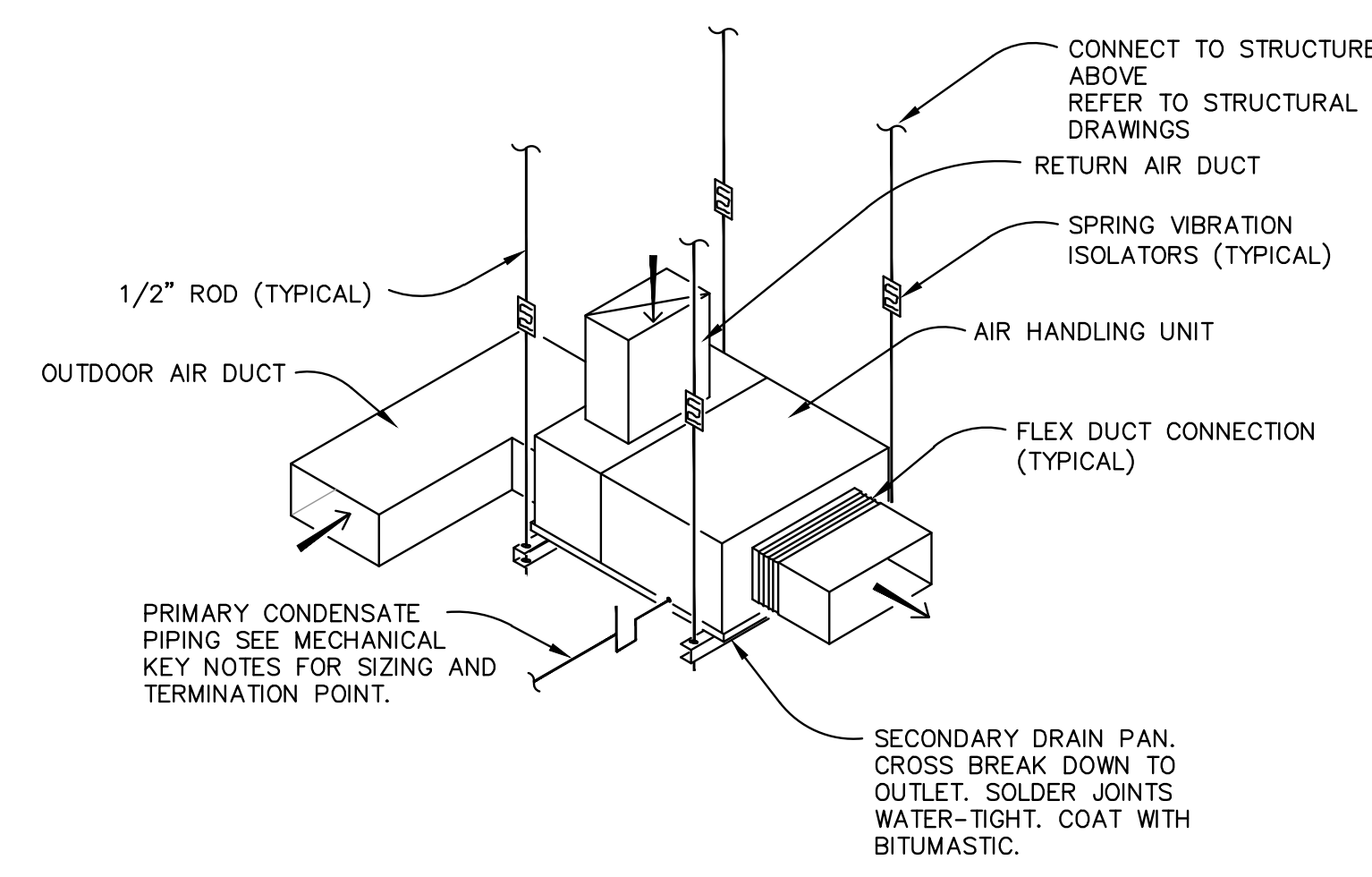
CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY TMS CHECKED BY CDS/RLL
DATE 11/08/20 REVISIONS

THIRD FLOOR
PIPING PLAN

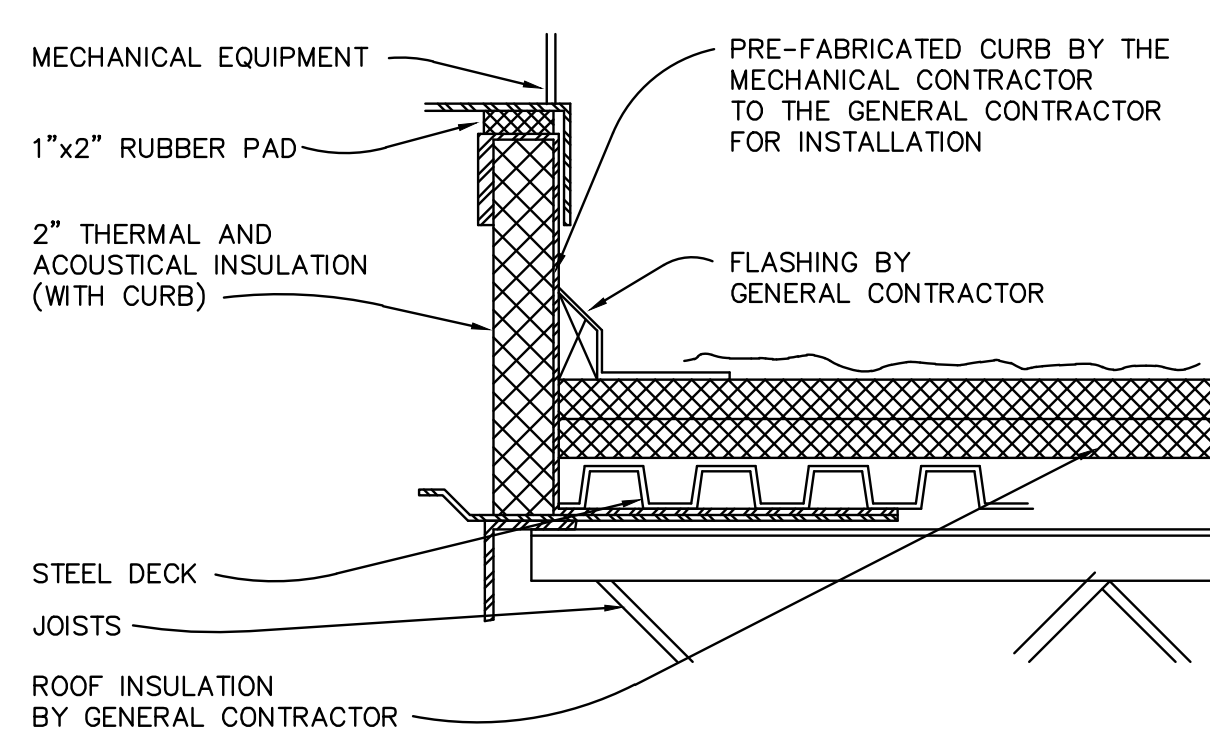
M231



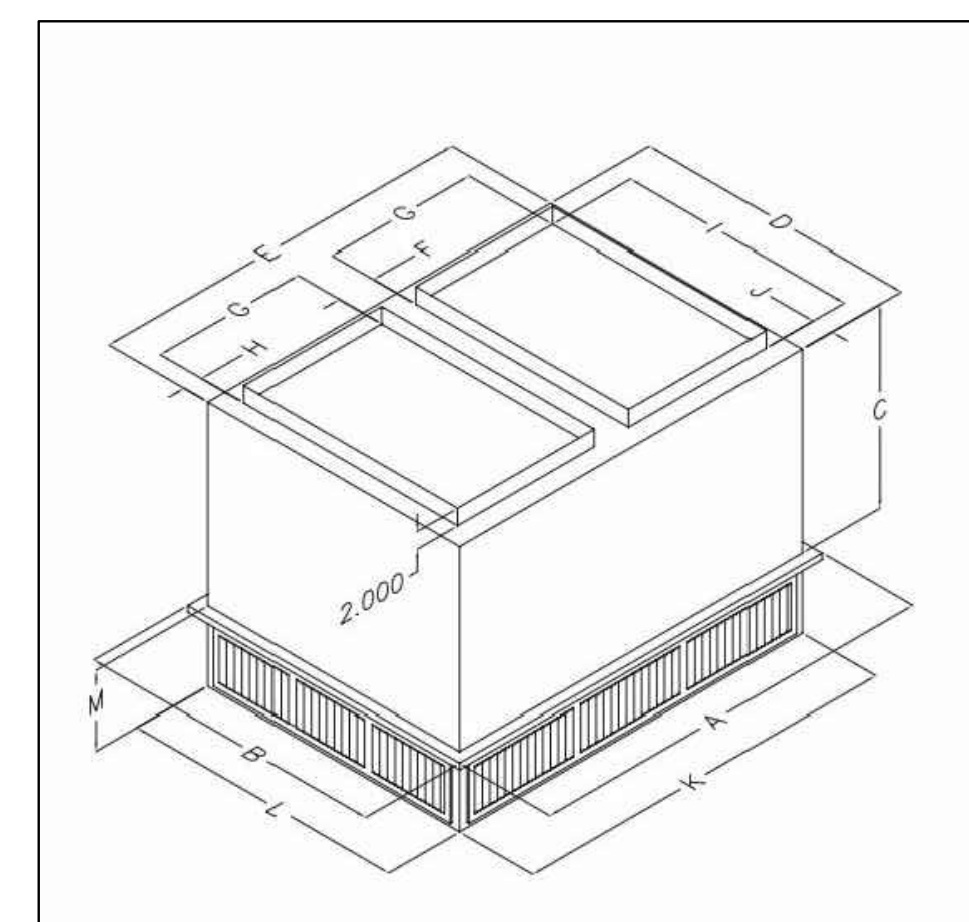
4 **INLINE FAN DETAIL**
SCALE: NO SCALE



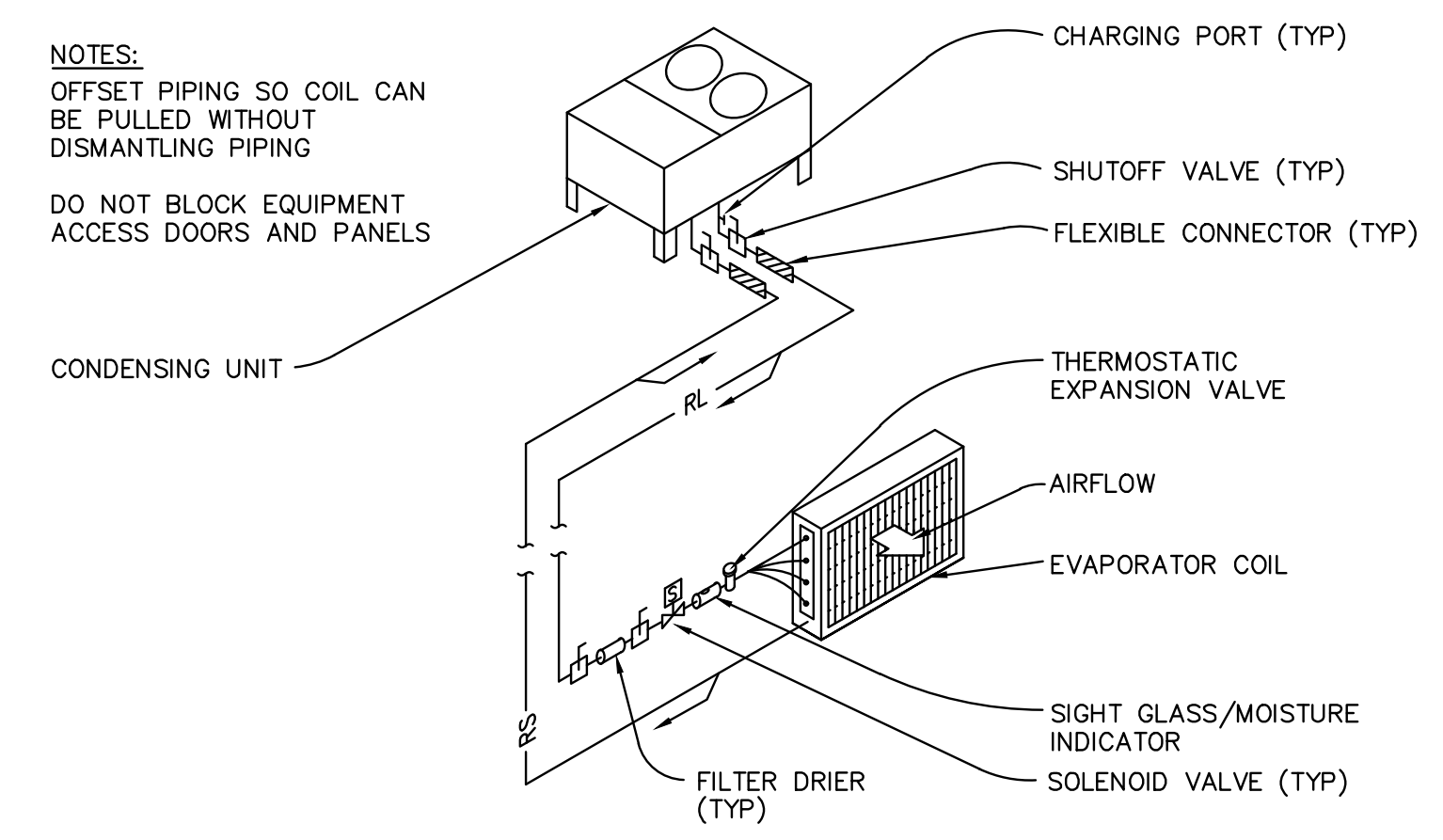
3 **AIR HANDLING UNIT MOUNTING DETAIL**
SCALE: NO SCALE



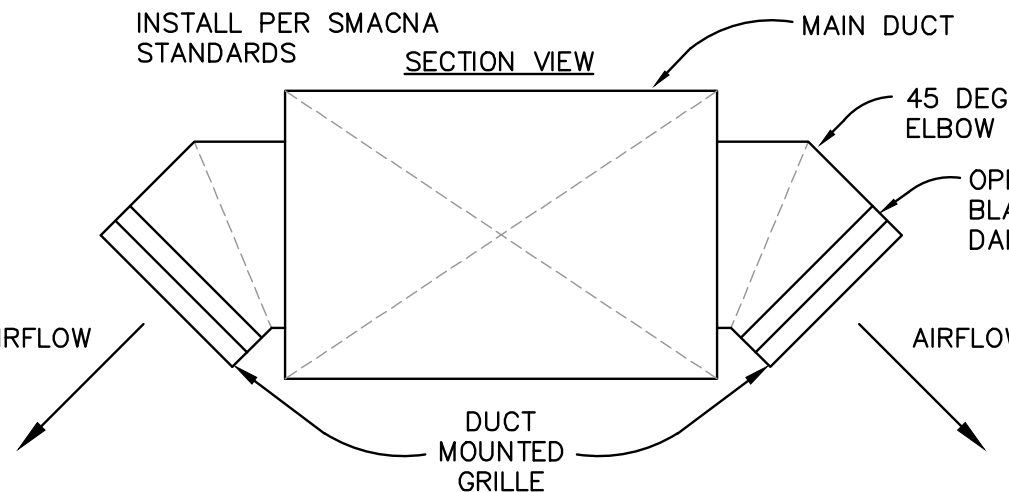
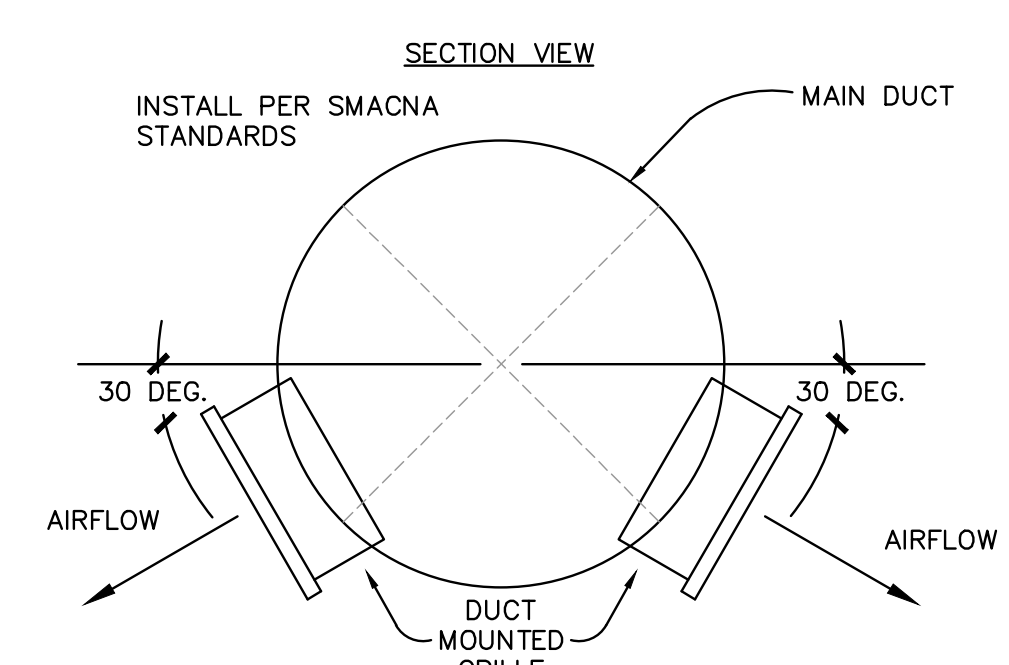
2 **MECHANICAL EQUIPMENT CURB DETAIL**
NO SCALE



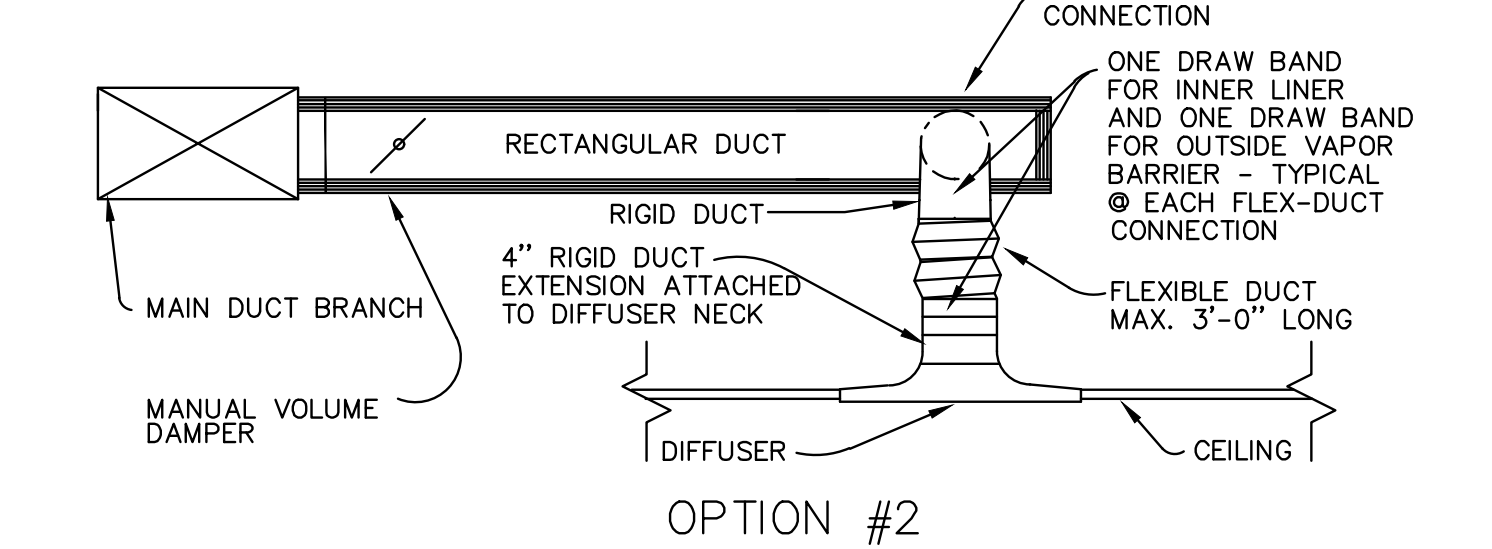
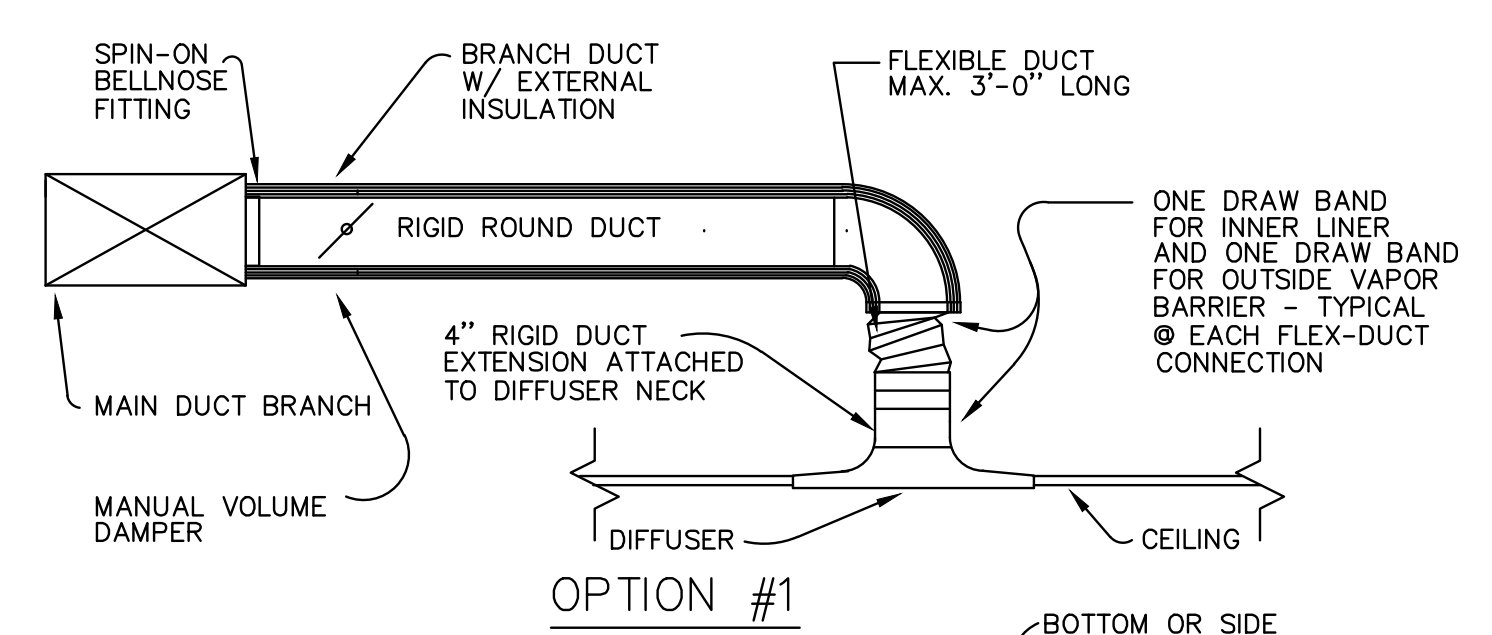
1 **CONCENTRIC DIFFUSER DETAIL**
NO SCALE



7 **REFRIGERANT PIPING**
NO SCALE VERTICAL RISE OF LESS THAN 25'



6 **DUCT MOUNTED GRILLE DETAIL**
SCALE: NO SCALE



5 **TYPICAL DIFFUSER/DUCT CONNECTIONS**
SCALE: NO SCALE

60%
SUBMITTAL
01-25-2021

HALLBERG ENGINEERING
Mechanical/Architect Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax: (651) 748-9370

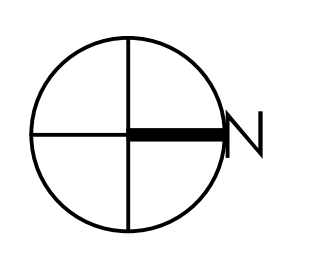
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Richard L. Lucio

SIGNATURE: _____
DATE: _____

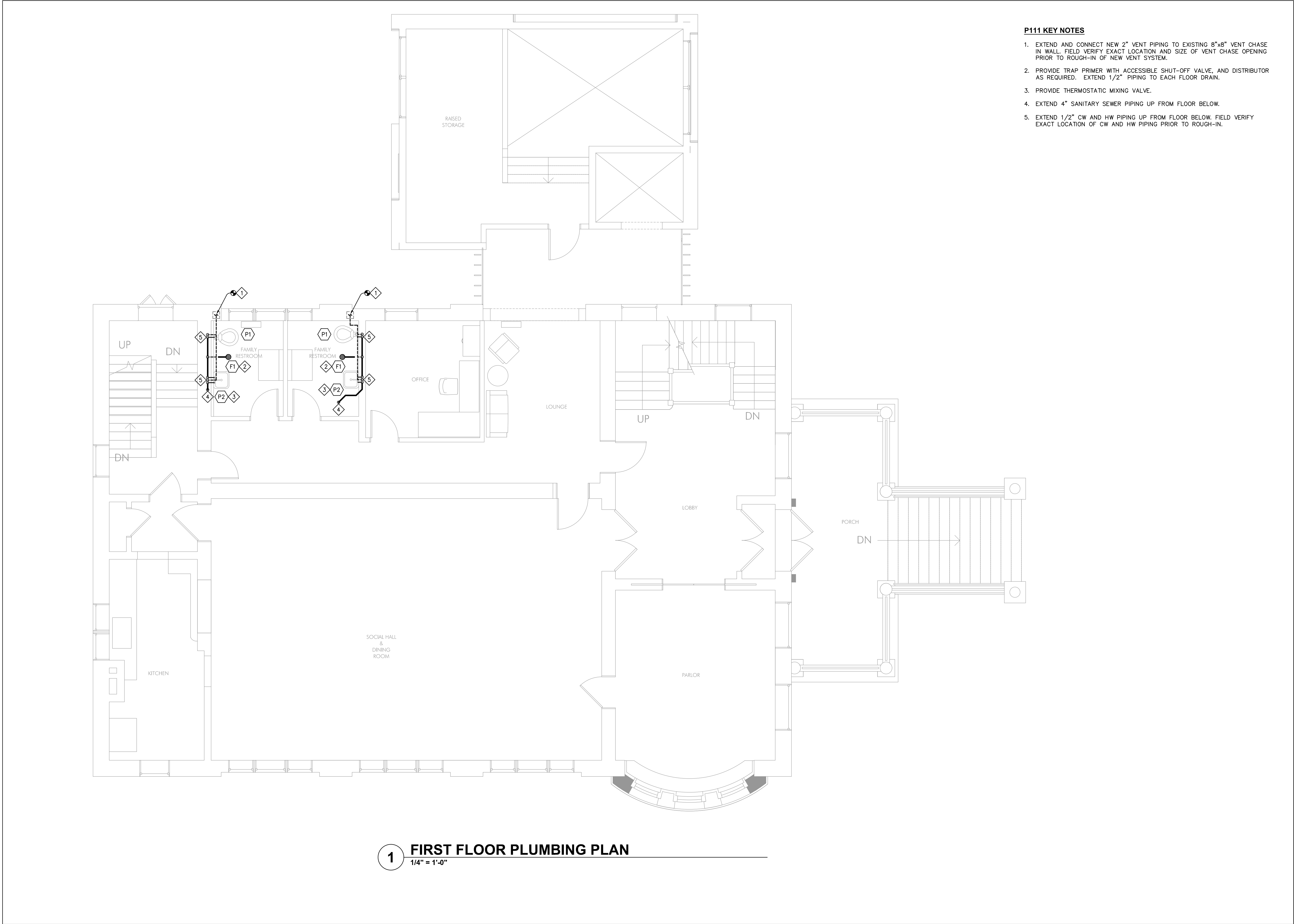
REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY TMS CHECKED BY CDS/RLL
DATE 11/08/20 REVISIONS

MECHANICAL
DETAILS

M700



- P111 KEY NOTES**
1. EXTEND AND CONNECT NEW 2" VENT PIPING TO EXISTING 8"x8" VENT CHASE IN WALL. FIELD VERIFY EXACT LOCATION AND SIZE OF VENT CHASE OPENING PRIOR TO ROUGH-IN OF NEW VENT SYSTEM.
 2. PROVIDE TRAP PRIMER WITH ACCESSIBLE SHUT-OFF VALVE, AND DISTRIBUTOR AS REQUIRED. EXTEND 1/2" PIPING TO EACH FLOOR DRAIN.
 3. PROVIDE THERMOSTATIC MIXING VALVE.
 4. EXTEND 4" SANITARY SEWER PIPING UP FROM FLOOR BELOW.
 5. EXTEND 1/2" CW AND HW PIPING UP FROM FLOOR BELOW. FIELD VERIFY EXACT LOCATION OF CW AND HW PIPING PRIOR TO ROUGH-IN.

1 FIRST FLOOR PLUMBING PLAN
 1/4" = 1'-0"

60%
 SUBMITTAL
 01-25-2021



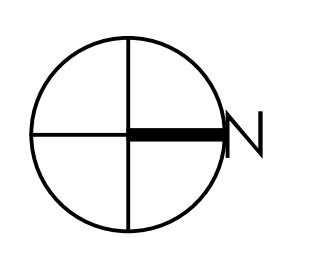
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Railroad Engineer

SIGNATURE: _____
 DATE: _____

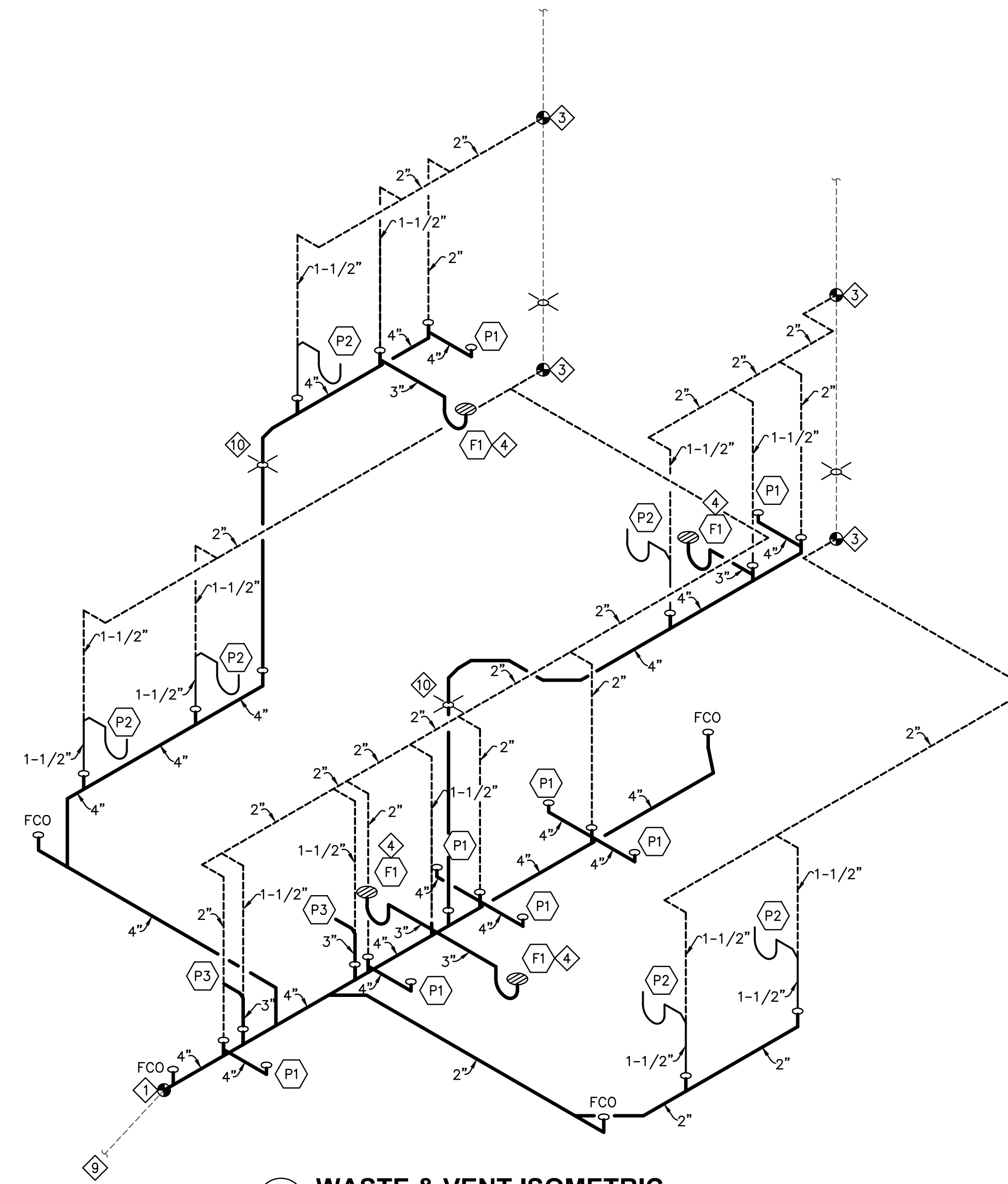
REVISIONS		
No.	Description	Date



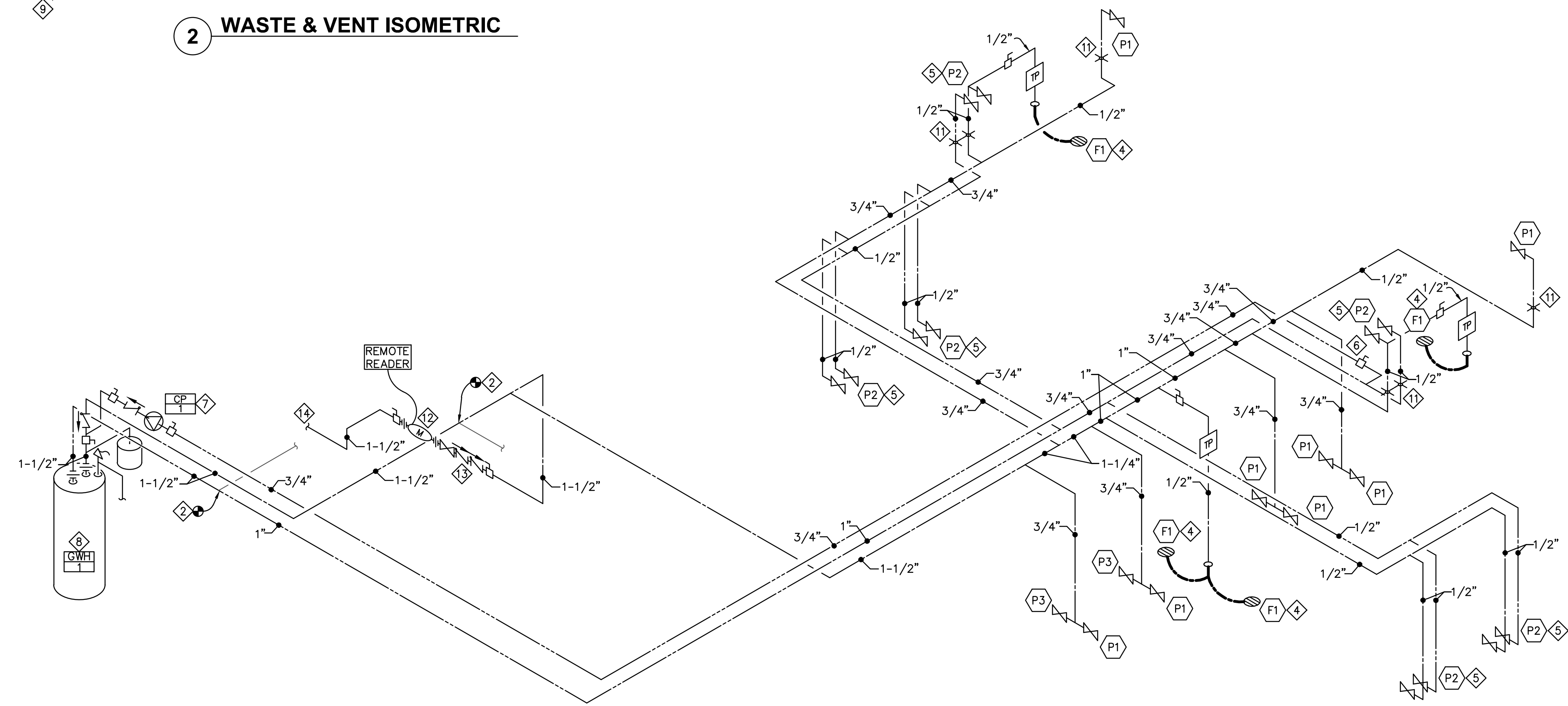
CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY: TMS
 CHECKED BY: EBS/RLL
 DATE: 11/08/20
 REVISIONS

FIRST FLOOR
 PLUMBING
 PLAN

P111



2 WASTE & VENT ISOMETRIC



1 WATER ISOMETRIC
N.T.S.

P601 KEY NOTES

1. EXTEND AND CONNECT NEW 4" SANITARY SEWER TO EXISTING 4" (MIN) SANITARY SEWER PIPING. FIELD VERIFY EXACT LOCATION, SIZE, FLOW DIRECTION, AND INVERT ELEVATION OF CONNECTION POINT PRIOR TO ROUGH-IN OF NEW SANITARY SEWER. PROVIDE FCO AT POINT OF CONNECTION TO EXISTING.
2. EXTEND AND CONNECT EXISTING COLD WATER AND HOT WATER PIPING TO NEW 1-1/2" COLD WATER AND HOT WATER PIPING. FIELD VERIFY EXACT LOCATION OF EXISTING CW & HW PIPING PRIOR TO ROUGH-IN. PROVIDE SHUTOFF VALVE AT POINT OF CONNECTION TO NEW PIPING.
3. EXTEND AND CONNECT NEW 2" VENT PIPING TO EXISTING 8"x8" VENT CHASE IN WALL. FIELD VERIFY EXACT LOCATION AND SIZE OF VENT CHASE OPENING PRIOR TO ROUGH-IN OF NEW VENT SYSTEM.
4. PROVIDE TRAP PRIMER ABOVE WITH ACCESSIBLE SHUT-OFF VALVE, AND DISTRIBUTOR AS REQUIRED. EXTEND 1/2" PIPING TO EACH FLOOR DRAIN.
5. PROVIDE THERMOSTATIC MIXING VALVE.
6. HOT WATER RECIRCULATION BALANCING VALVE WITH FLOW MEASUREMENT ORIFICES. SET FOR 1.0 GPM. MOUNT VALVE 1' ABOVE THE CEILING.
7. COORDINATE THE INSTALLATION OF THE INLINE HOT WATER RECIRCULATION PUMP CP-1, EXPANSION TANK AND CHECK VALVE ASSEMBLY.
8. REPLACE EXISTING GAS WATER HEATER WITH NEW A.O. SMITH BTR-154 GAS WATER HEATER. CONNECT NEW GAS PIPING TO EXISTING GAS PIPING AND NEW 6" Ø FLUE TO EXISTING CHIMNEY STACK.
9. EXISTING SANITARY SEWER MAIN TO REMAIN. SNAKE ALL EXISTING SANITARY SEWER PIPING OUT TO STREET.
10. EXTEND 4" SANITARY SEWER PIPING UP TO 1ST FLOOR LEVEL, SEE SHEET P111 FOR CONTINUATION.
11. EXTEND 1/2" CW AND HW PIPING UP TO 1ST FLOOR LEVEL, SEE SHEET P111 FOR CONTINUATION. FIELD VERIFY EXACT LOCATION OF CW AND HW PIPING PRIOR TO ROUGH-IN.
12. PROVIDE UTILITY-GRADE WATER METER WITH REMOTE READER TO READ IN GALLONS. INSTALL REMOTE READER IN BOILER ROOM.
13. PROVIDE DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTER (BFP-1) WITH ISOLATION VALVES AT 36" AFF.
14. UPGRADE EXISTING WATER SERVICE TO THE BUILDING WITH A NEW 1-1/2" WATER SERVICE MAIN.

**60%
SUBMITTAL
01-25-2021**



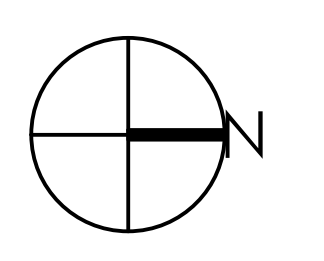
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Richard L. Lucio

SIGNATURE: _____
DATE: _____

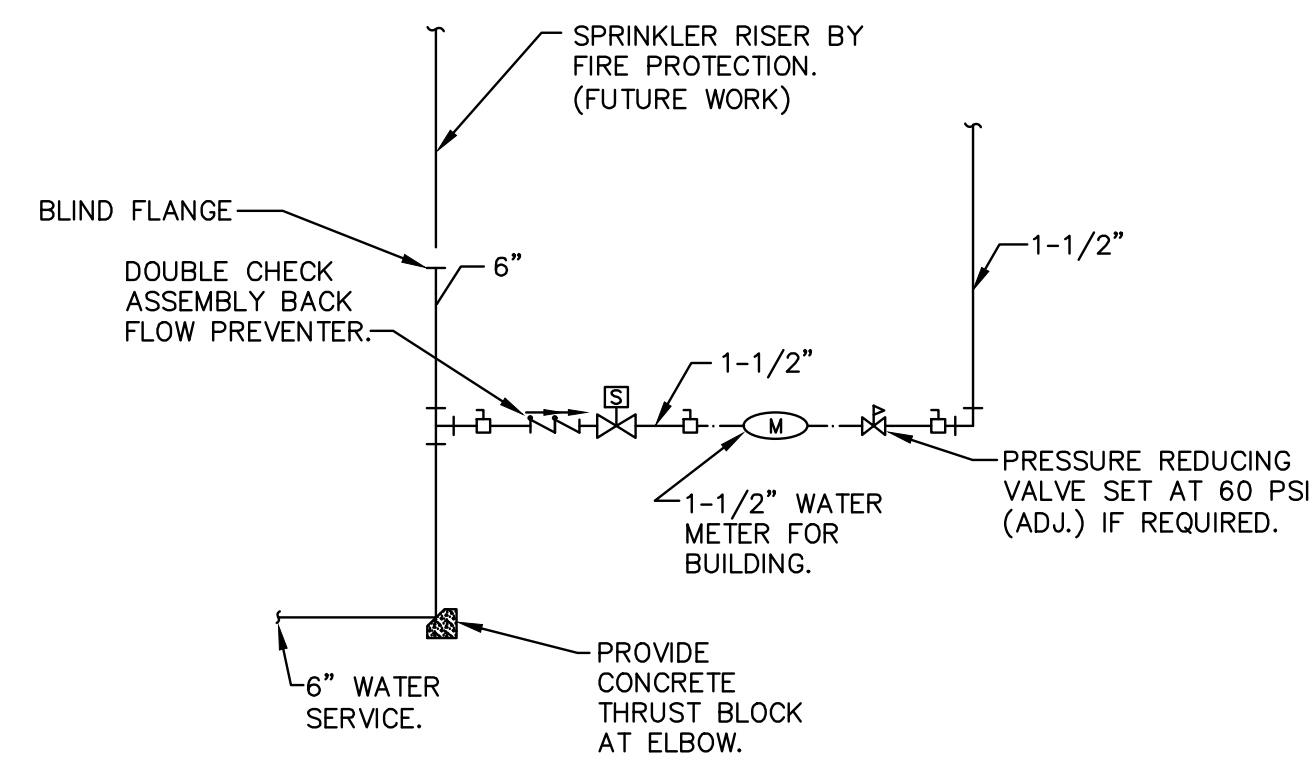
REVISIONS		
No.	Description	Date



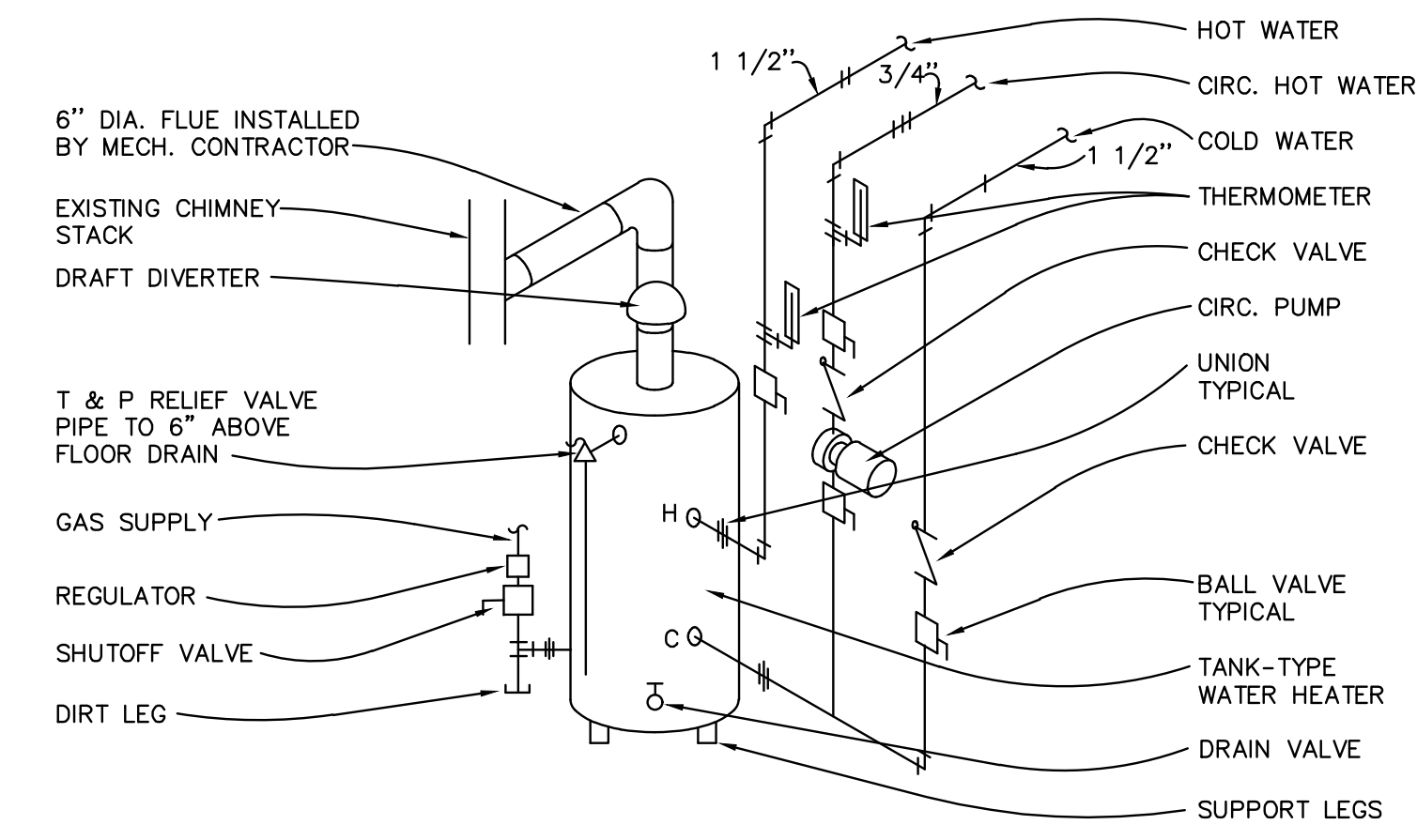
CHARLES THOMPSON MEMORIAL HALL
 Rehabilitation, HVAC Upgrade, and Addition
 1824 Marshall Avenue, Saint Paul, MN 55104
 DRAWN BY TMS CHECKED BY CDS/RLL
 DATE 11/08/20 REVISIONS

PLUMBING
RISER DIAGRAMS

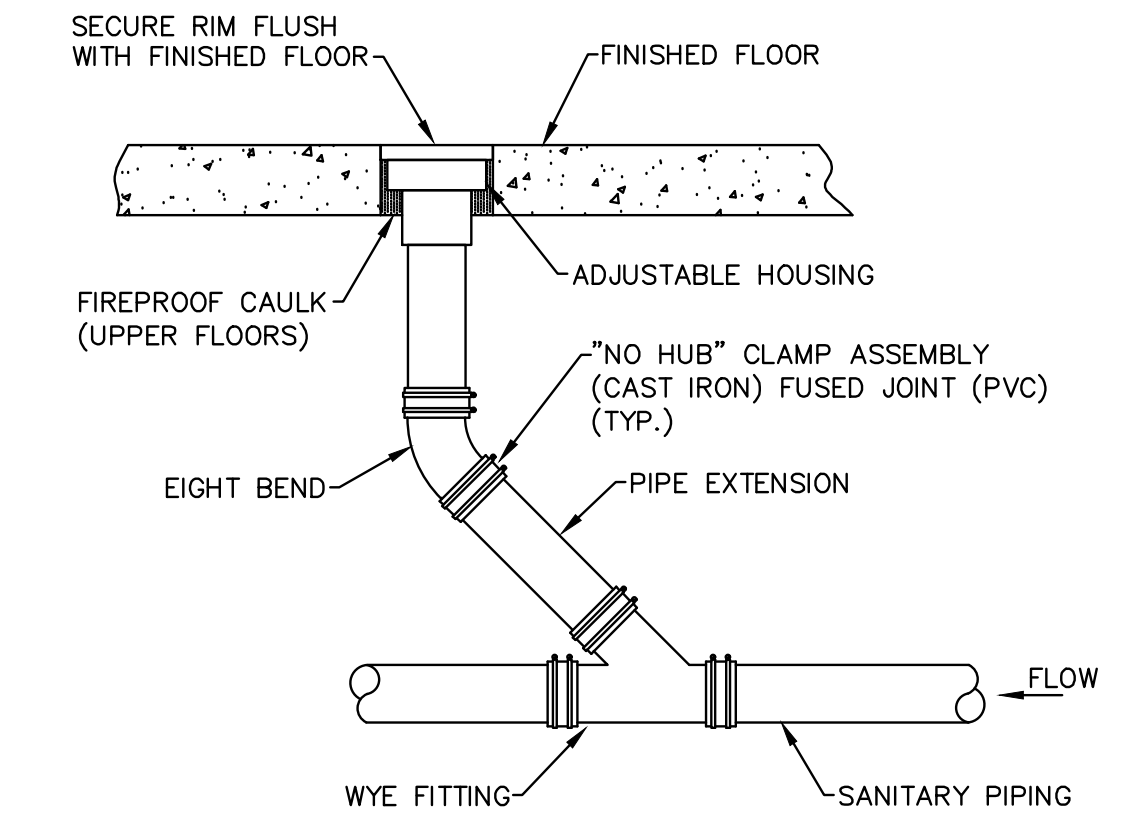
P601



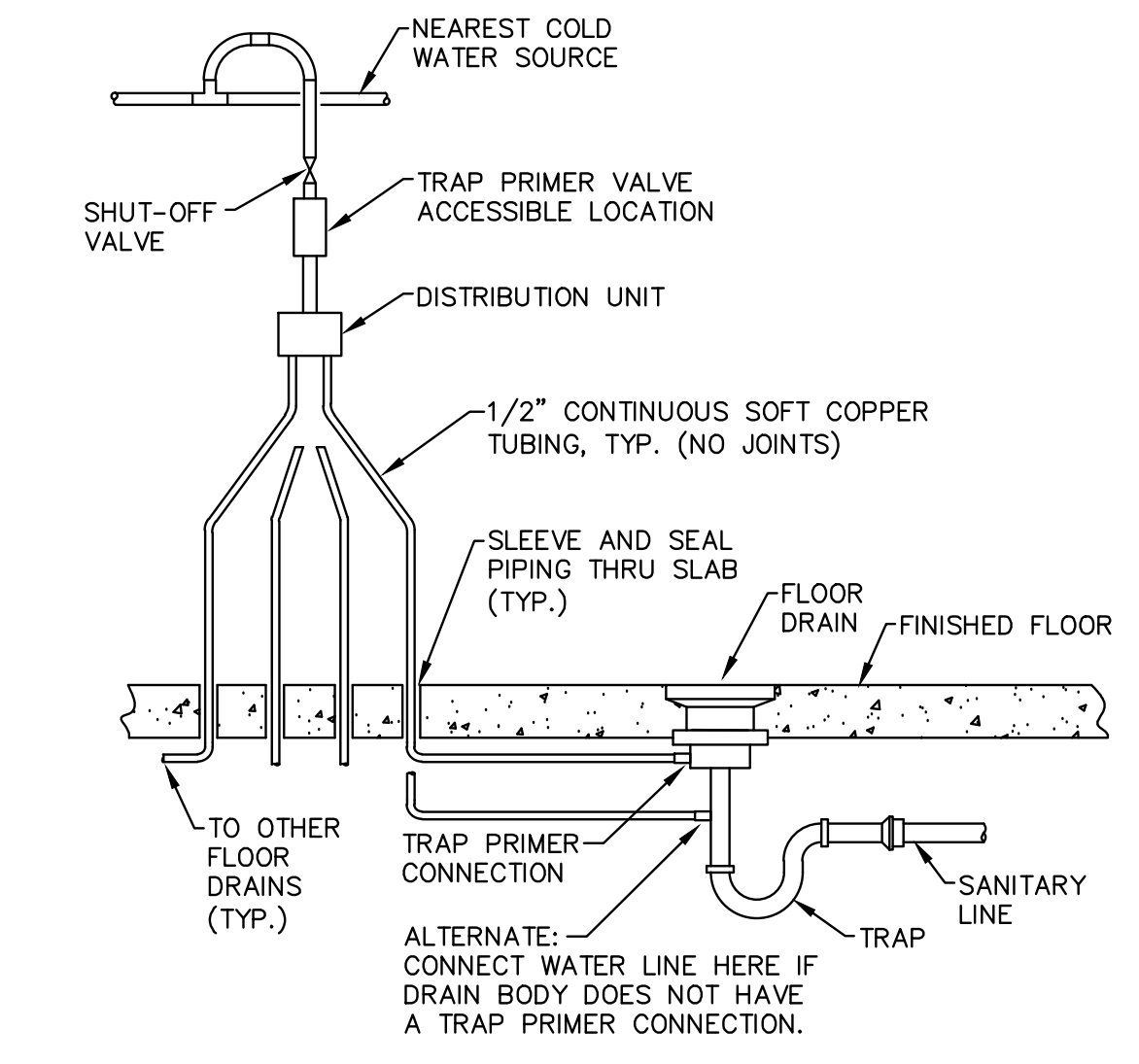
4 WATER METER
SCALE: NO SCALE



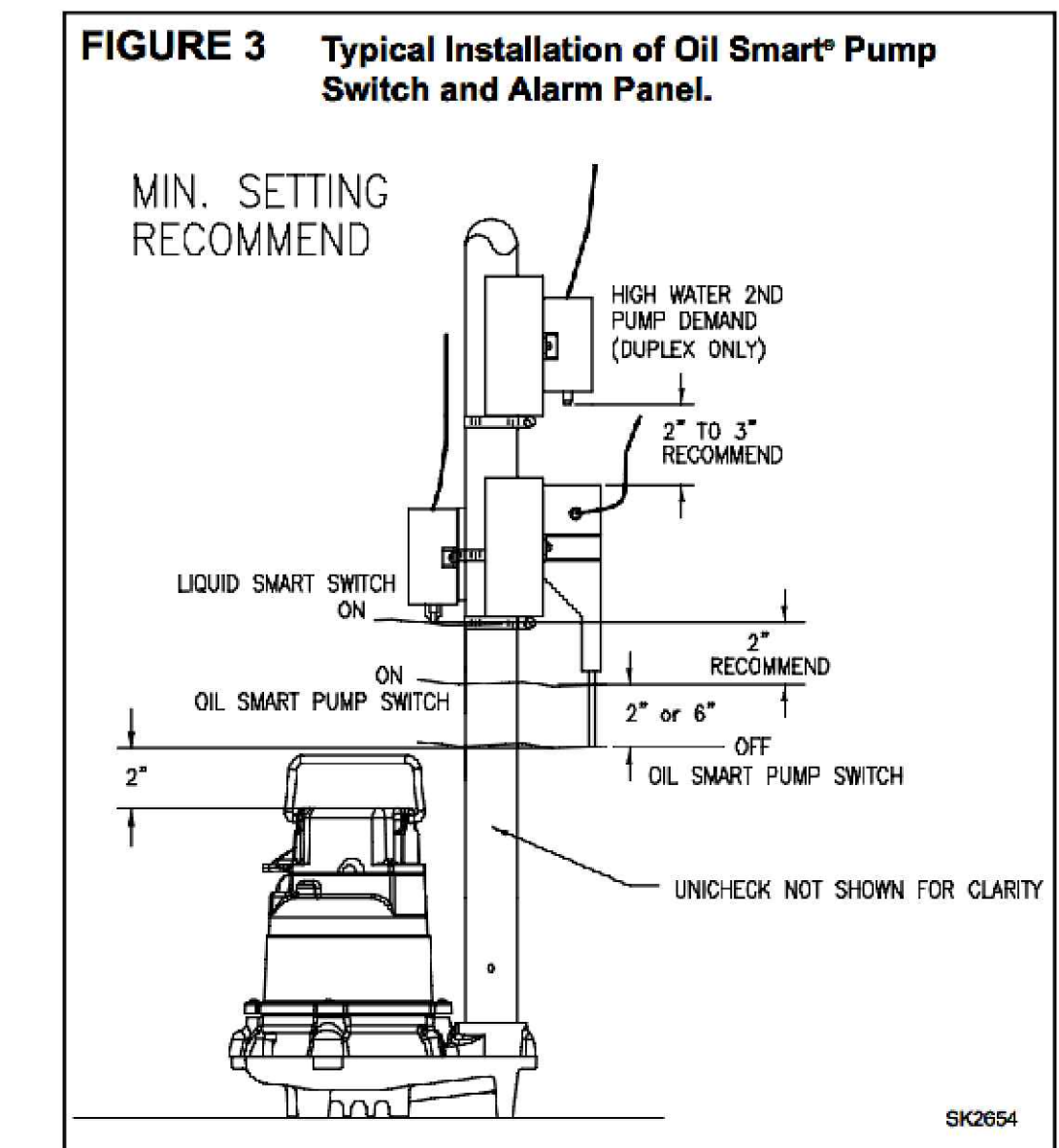
3 WATER HEATER DETAIL
SCALE: NO SCALE



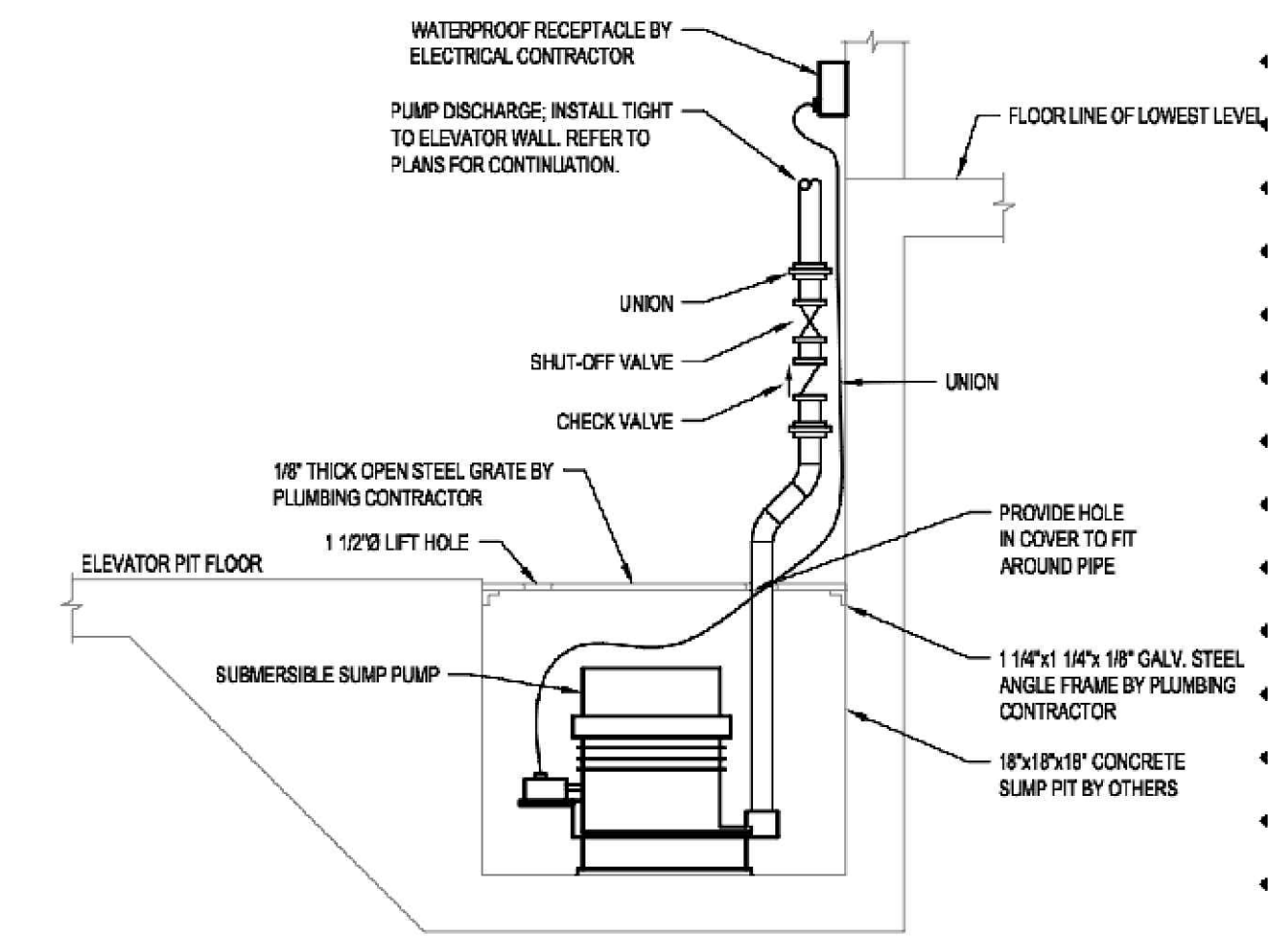
2 FLOOR CLEANOUT DETAIL
SCALE: NO SCALE



1 TRAP PRIMER DETAIL
SCALE: NO SCALE



5 SUMP PUMP DETAILS
SCALE: NO SCALE



60%
SUBMITTAL
01-25-2021

HALLBERG ENGINEERING
Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax: (651) 748-9370

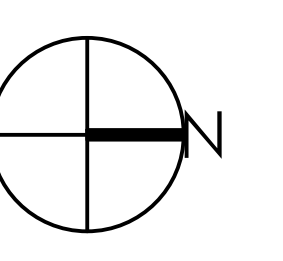
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Richard L. Lucio

SIGNATURE: _____
DATE: _____

REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY TMS CHECKED BY CDS/RLL
DATE 11/08/20 REVISIONS

PLUMBING
DETAILS

P700

PLUMBING FIXTURE SCHEDULE											
FIXTURE NO.	FIXTURE TYPE	MANUFACTURER	TYPE & MODEL NO.	TRIM/FAUCET NO.	SUPPORT	PIPE SIZES					REMARKS
						TRAP	WASTE	VENT	CW	HW	
P1	WATER CLOSET	AMERICAN STANDARD	CADET NO. (WHITE) 2467.016	CHICAGO FAUCET 1016	FLOOR MOUNT	-	4"	2"	1/2"	-	VITREOUS CHINA, ADA COMPLIANT, 1.6 GPF, PRESSURE ASSISTED, WITH OPEN FRONT COMMERCIAL GRADE SEAT WITH CHECK HINGE AND CHROME TRIP LEVER.
P2	LAVATORY	AMERICAN STANDARD	LUCERNE (WHITE) 0355.012	CHICAGO FAUCET 802-A317CP	WALL HUNG	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	PROVIDE INSULATED CHROME P-TRAP, PROVIDE HANDICAP INSULATION KIT, (2) CHICAGO FAUCET 1016 ANGLE VALVES, PROVIDE CHICAGO NO. E2605.5 AERATOR, AND WALL CARRIER.
P3	URINAL	AMERICAN STANDARD	WASHBROOK (WHITE) 6501.511	MANUAL FLUSH VALVE	WALL MOUNT	-	3"	1-1/2"	3/4"	-	VITREOUS CHINA, ADA COMPLIANT, 1.0 GPF, MANUAL FLUSH VALVE.
P4	DRINKING FOUNTAIN	--	--	-	FLOOR MOUNT	1-1/2"	1-1/2"	1-1/2"	1/2"	-	EXISTING DRINKING FOUNTAIN TO REMAIN, REFURBISHED/RETRO-FIT UNIT TO WORKING ORDER.
TP	TRAP PRIMER VALVE	PRECISION PLUMBING	OREGON NO. 1	-	-	-	-	-	1/2"	-	PROVIDE DISTRIBUTION UNIT FOR MULTIPLE DRAIN CONNECTIONS.
F1	FLOOR DRAIN	J.R. SMITH	SERIES 2005	-	-	3"	3"	1-1/2"	-	-	FLAT STRAINER WITH POLISHED NICKEL BRONZE TOP, PROVIDE 1/2" TRAP PRIMER CONNECTION WHERE INDICATED ON PLANS, POLISHED NICKEL BRONZE TOP.
FCO	FLOOR CLEAN OUT	J.R. SMITH	SERIES 4020	-	-	-	4"	-	-	-	POLISHED NICKEL BRONZE COVER.

GAS WATER HEATER SCHEDULE								GWH #	
UNIT NO.	MANUFACTURER	MODEL	BTU/HR	CAPACITY (GAL.)	STAGES	VOLTAGE	OUTPUT (GPH @ 100' RISE)	REMARKS	
GWH-1	A.O. SMITH	BTR-154	154,000	81	1	120/1/60	149.0	NEW GAS WATER HEATER.	

CIRCULATION / SUMP PUMP SCHEDULE								SP # CP #	
ITEM NO.	MANUFACTURER	MODEL	VOLTAGE	HP	GPM	FT. HD.	REMARKS		
CP-1	BELL & GOSSETT	NBF-22U/LW	115/1/60	1/12	1.0	10	PROVIDE AQUASTAT FOR PUMP CONTROL		
SP-1	ZOELLER	153-0027	115/1/60	1/2	52.0	20	940-0013 PREPACKAGED SYSTEM		

REMARKS:
1. ACCEPTABLE MANUFACTURERS; BELL AND GOSSETT, LIBERTY, WEIL AND ARMSTRONG.

BACKFLOW PREVENTER SCHEDULE	
UNIT TAG	BFP-1
MANUFACTURER	WATTS
MODEL NUMBER	007
SERVICE TYPE	DOMESTIC WATER
TYPE	DOUBLE CHECK
SIZE	1"
REMARKS	1

REMARKS:
1. ACCEPTABLE MANUFACTURERS; FEBCO, ZURN, AMES, CONBRACO.

60%
SUBMITTAL
01-25-2021



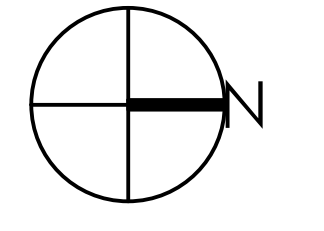
PROJECT NO.: R20-3835.002

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME: Richard L. Lucio

SIGNATURE: _____
DATE: _____

REVISIONS		
No.	Description	Date



CHARLES THOMPSON MEMORIAL HALL
Rehabilitation, HVAC Upgrade, and Addition
1824 Marshall Avenue, Saint Paul, MN 55104
DRAWN BY TMS CHECKED BY CDS/RLL
DATE 11/08/20 REVISIONS

PLUMBING SCHEDULES

P800