

XAVIER UNIVERSITY

SCHOTT HALL

ADMISSIONS OFFICE RENOVATION

PHASE II

ISSUE FOR BID & PERMIT

1496 DANA AVE CINCINNATI, OH 45207
(PREVIOUS ADDRESS 1511 HERALD AVENUE)



Schott Hall Admissions Office
Renovation Phase II
1496 Dana Ave Cincinnati, Ohio 45207

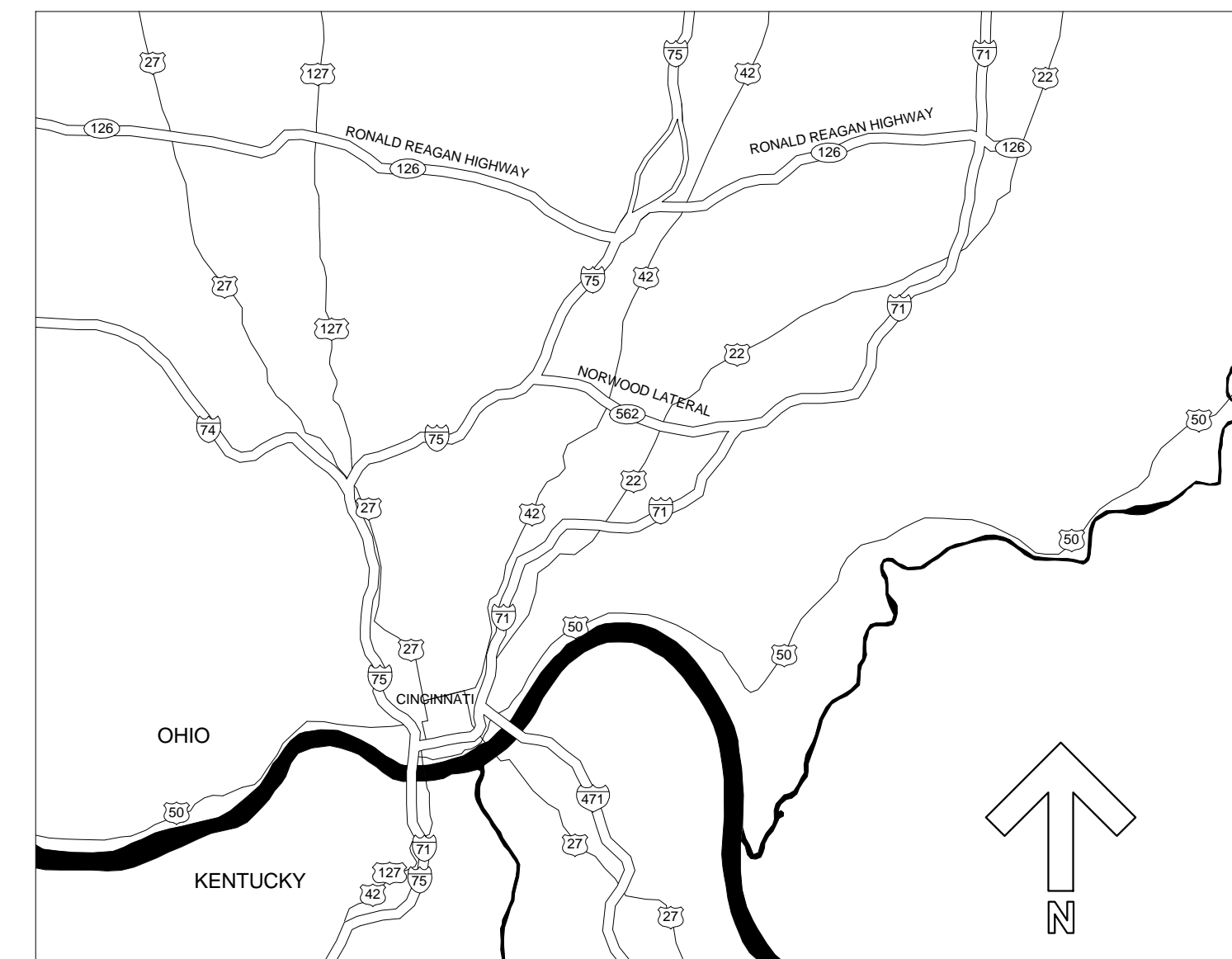


OFFICE OF PHYSICAL PLANT
XAVIER UNIVERSITY
3800 VICTORY PARKWAY
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VICINITY MAP

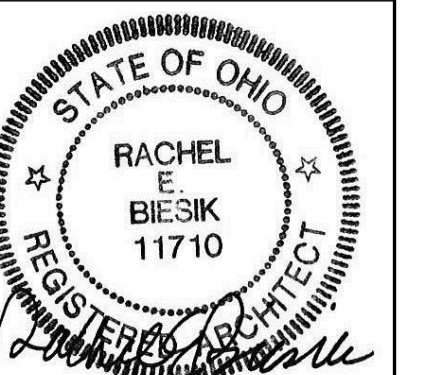


LOCATION MAP

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No.	Description	Date
1	BID & PERMIT	07/14/17

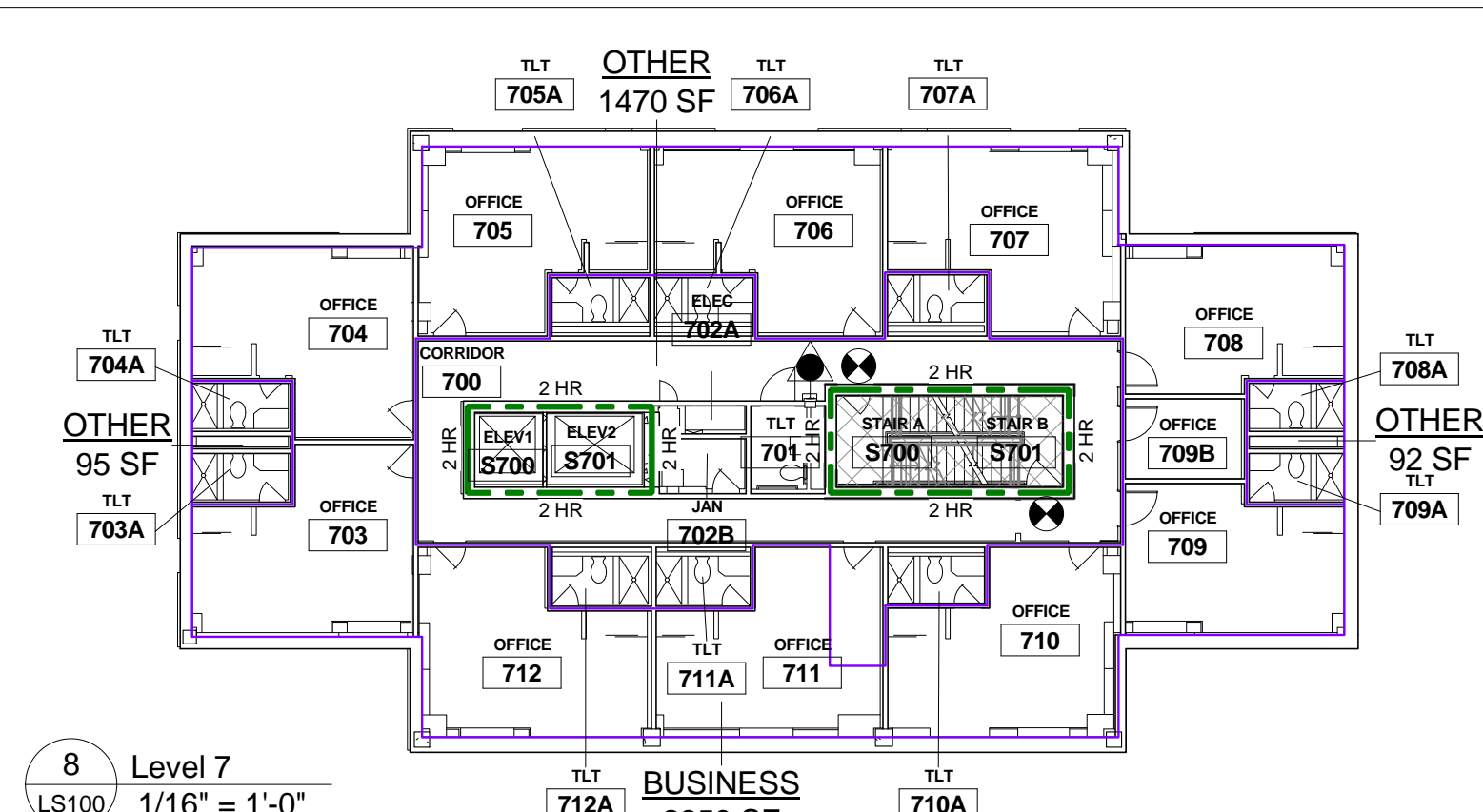
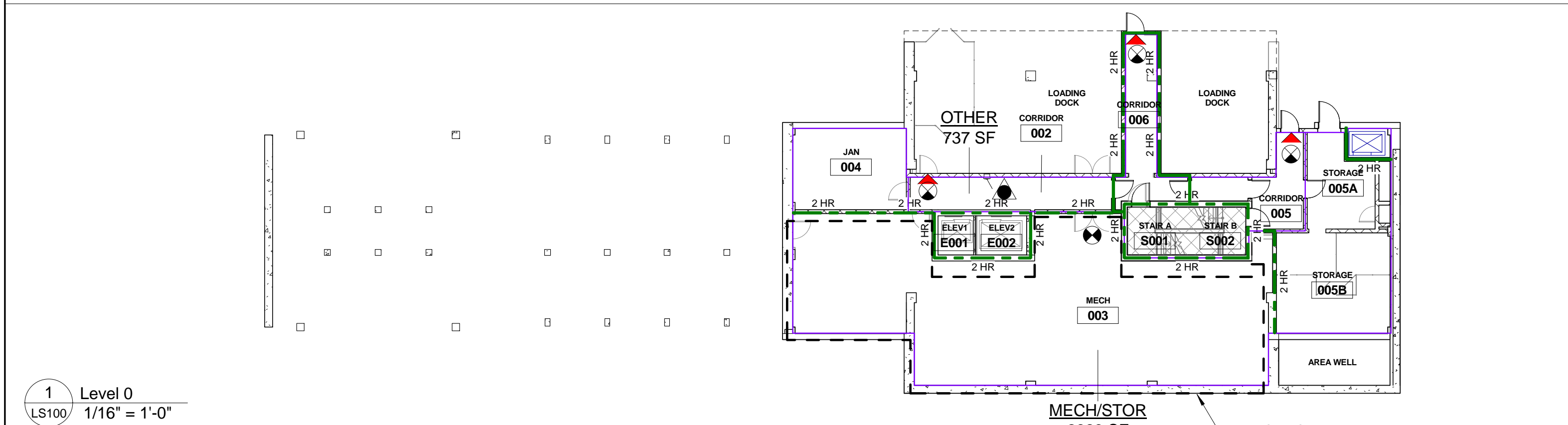
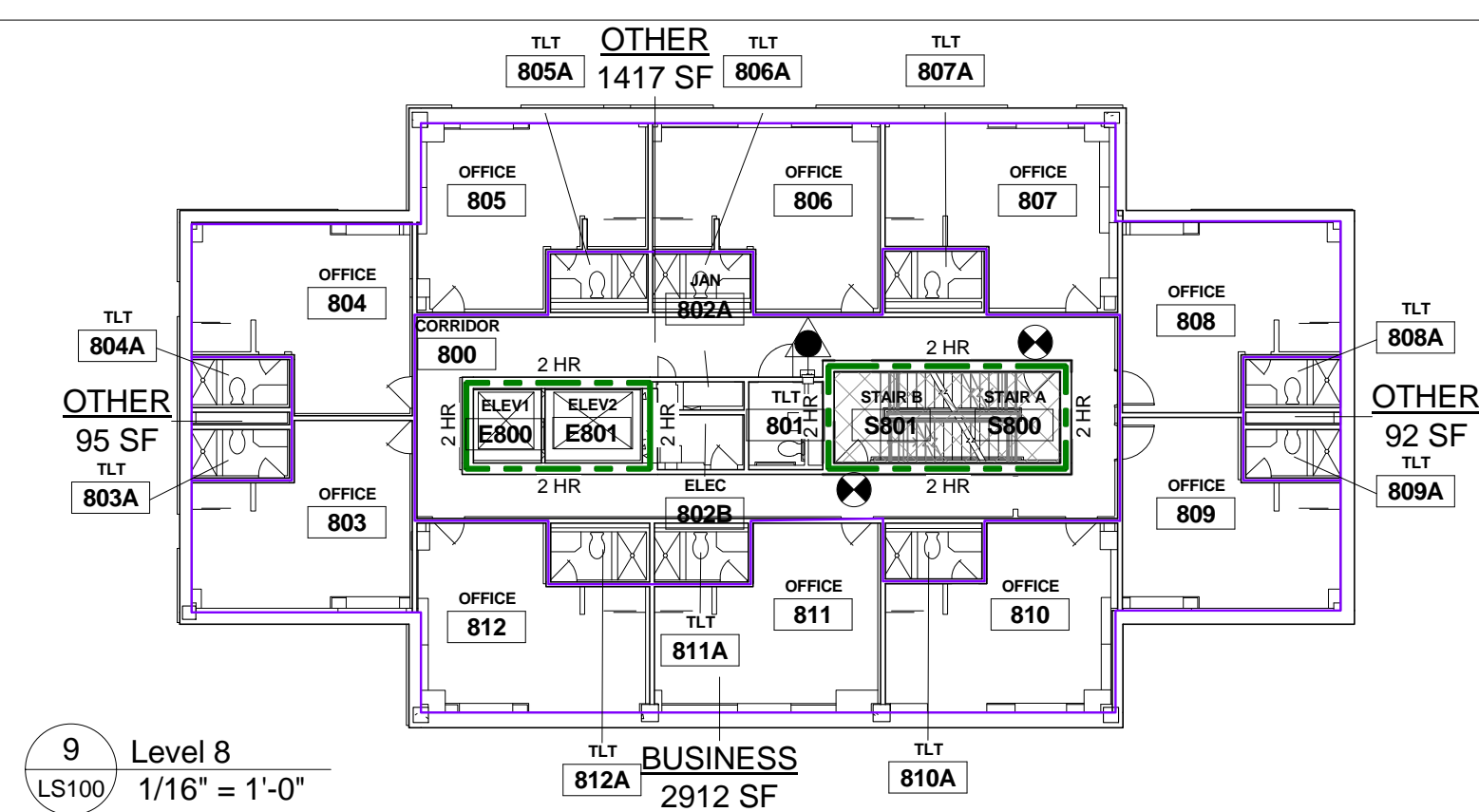
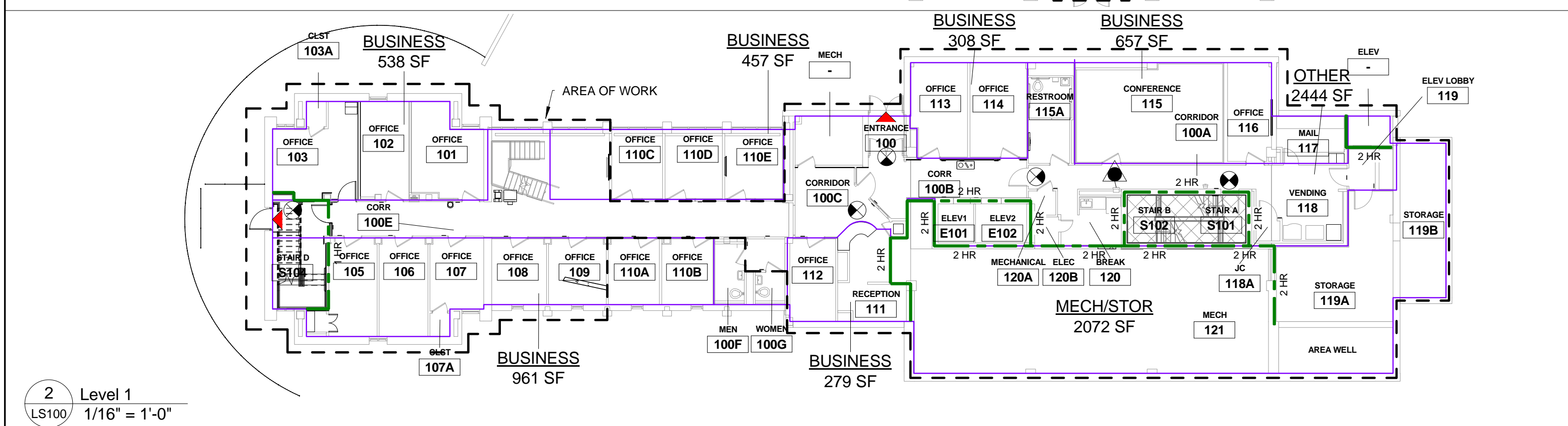
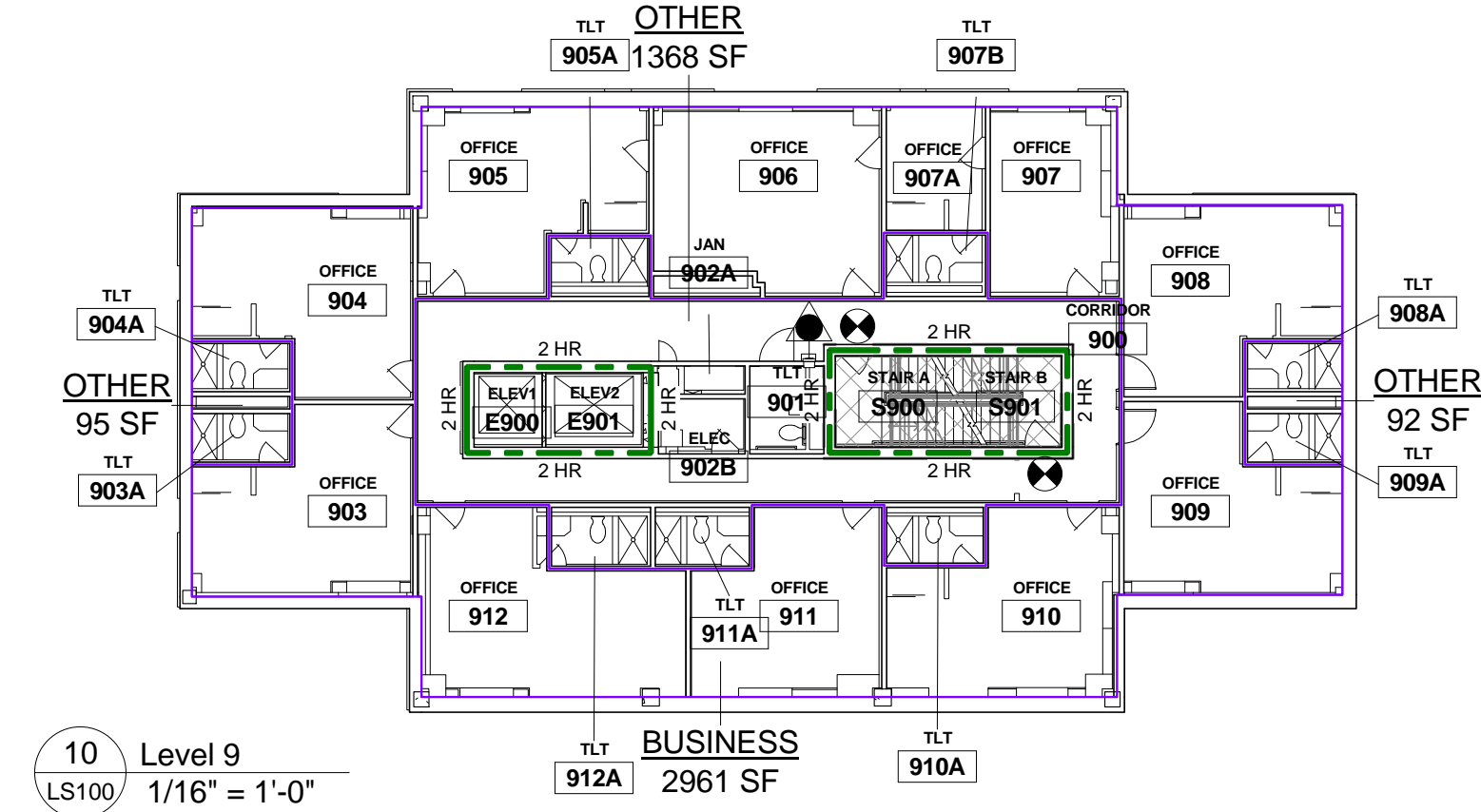
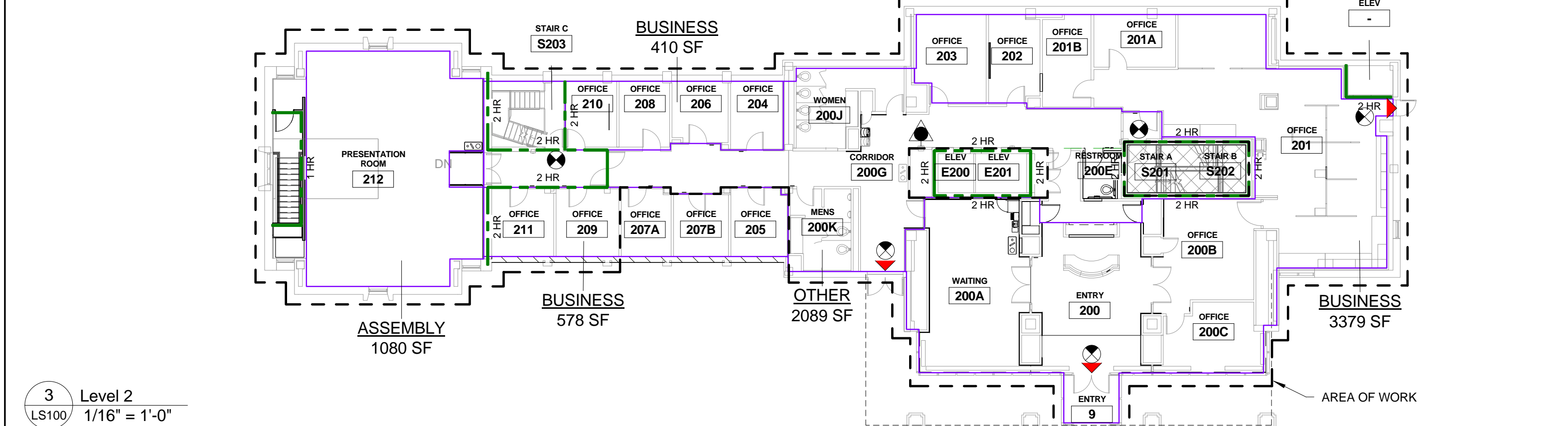
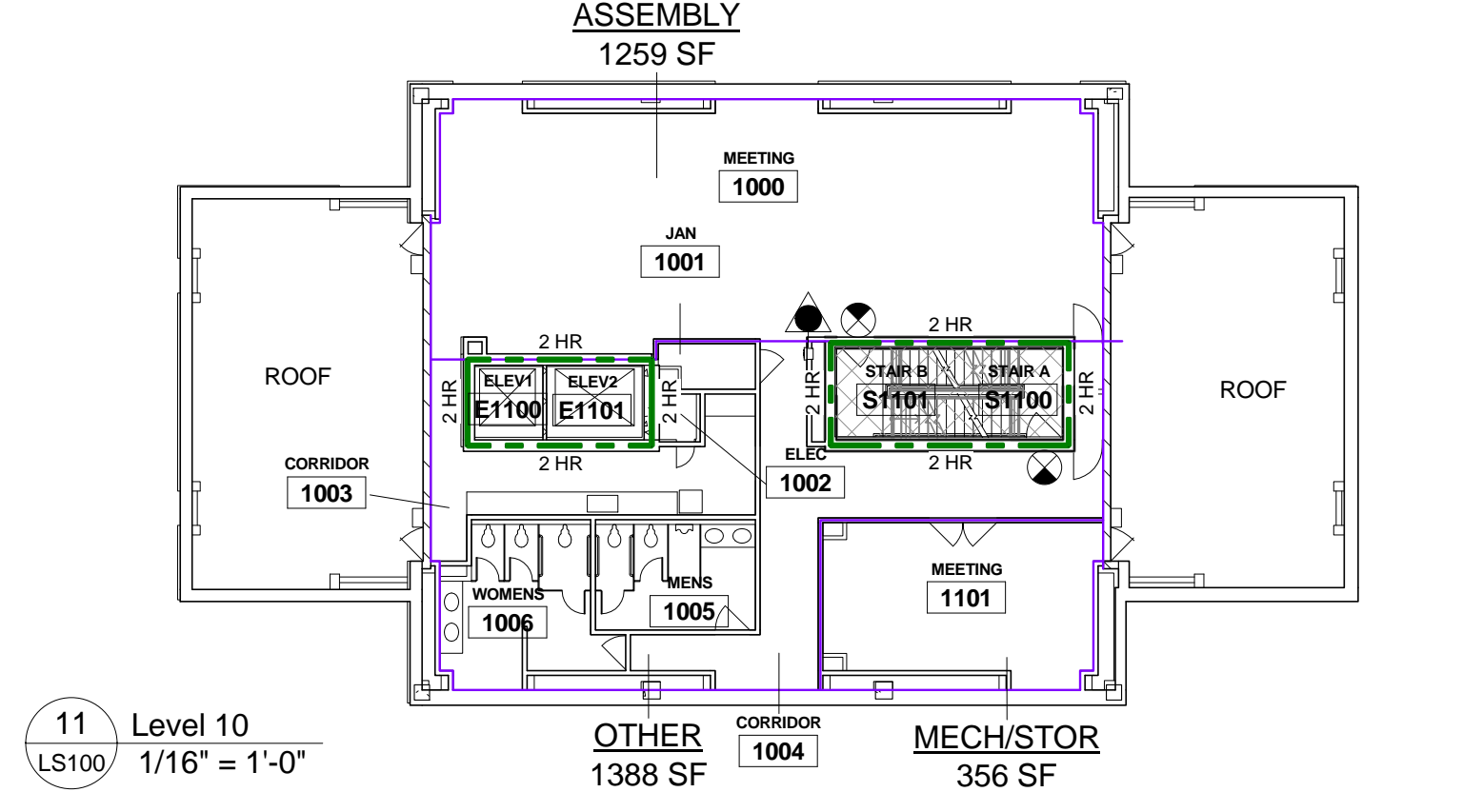
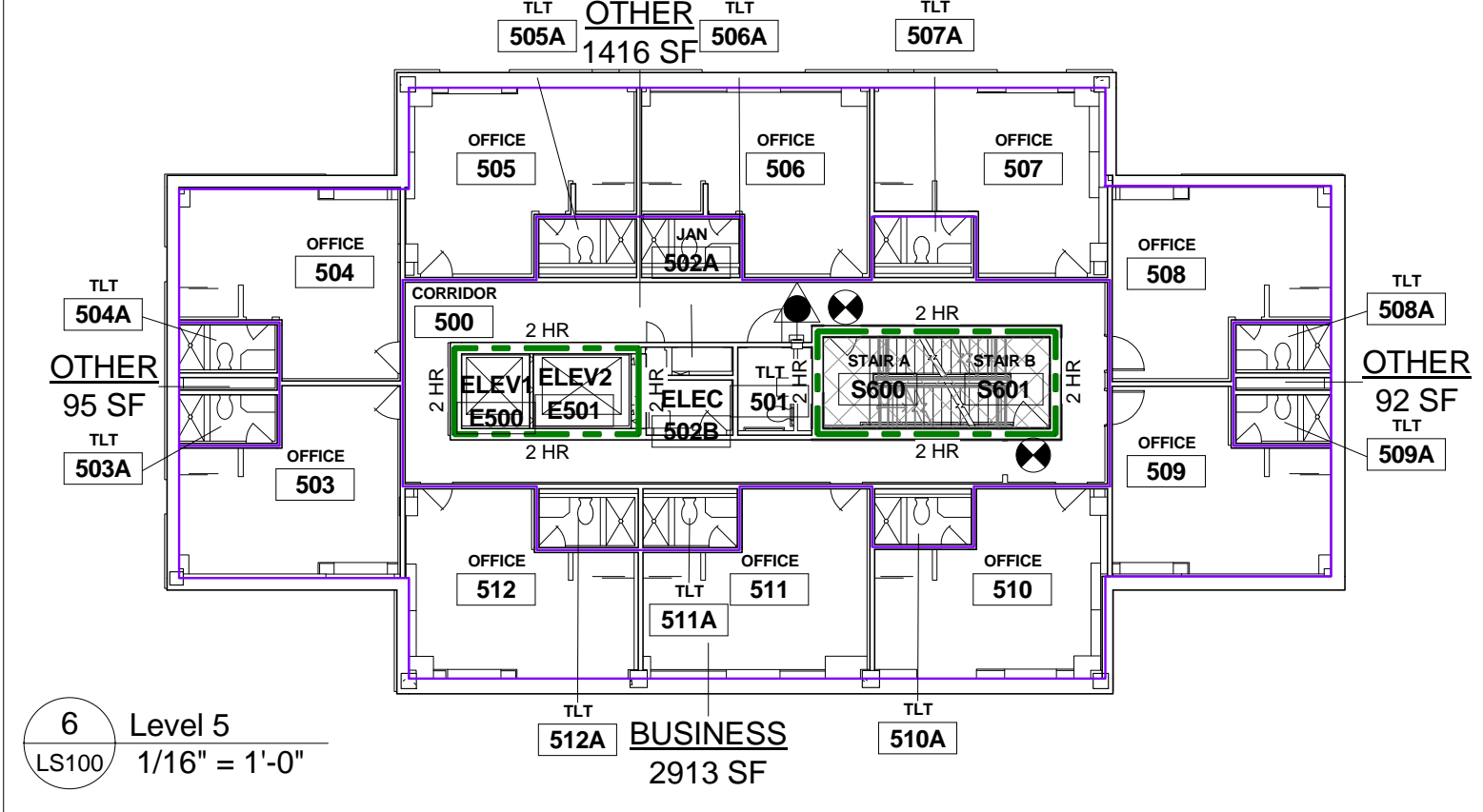
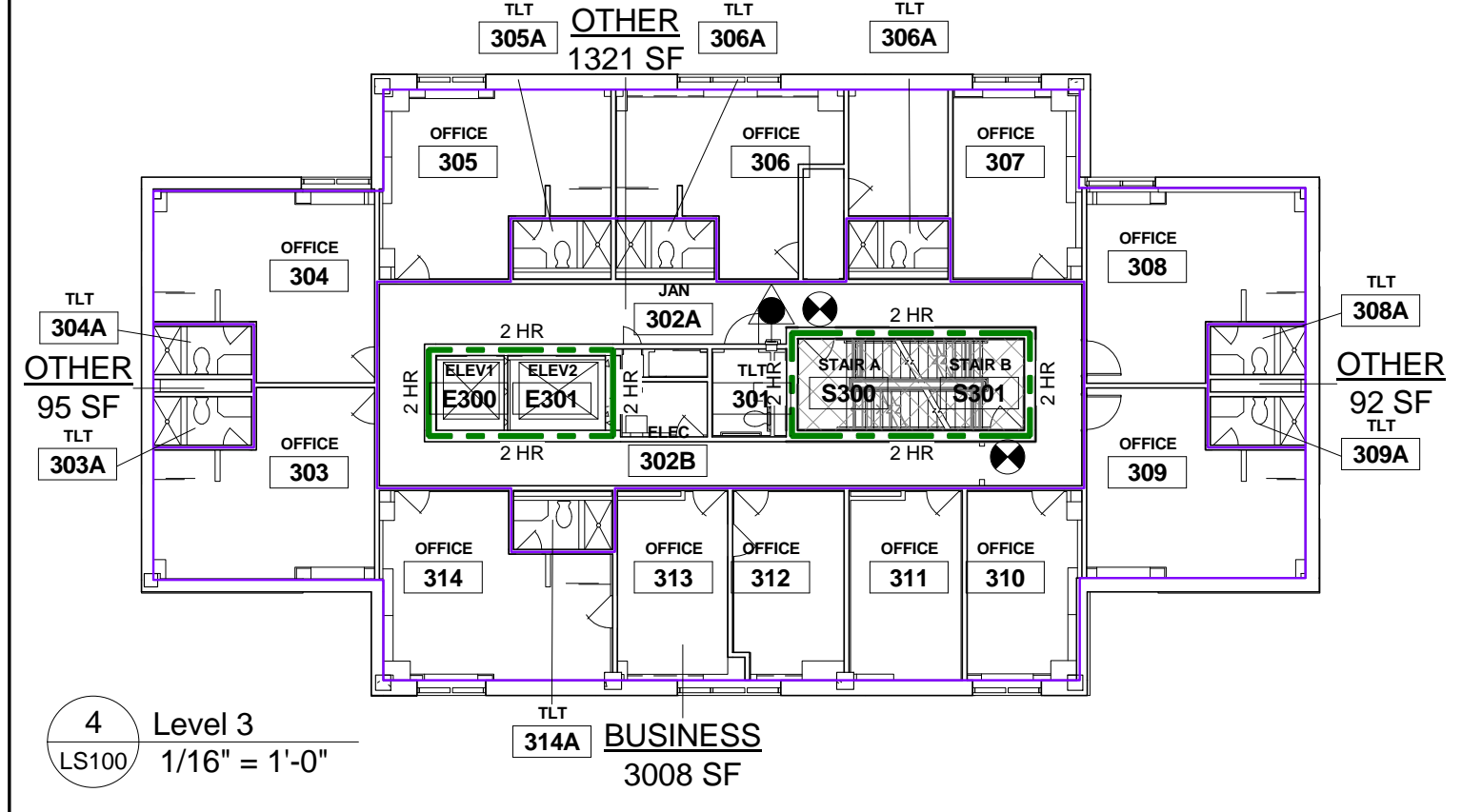
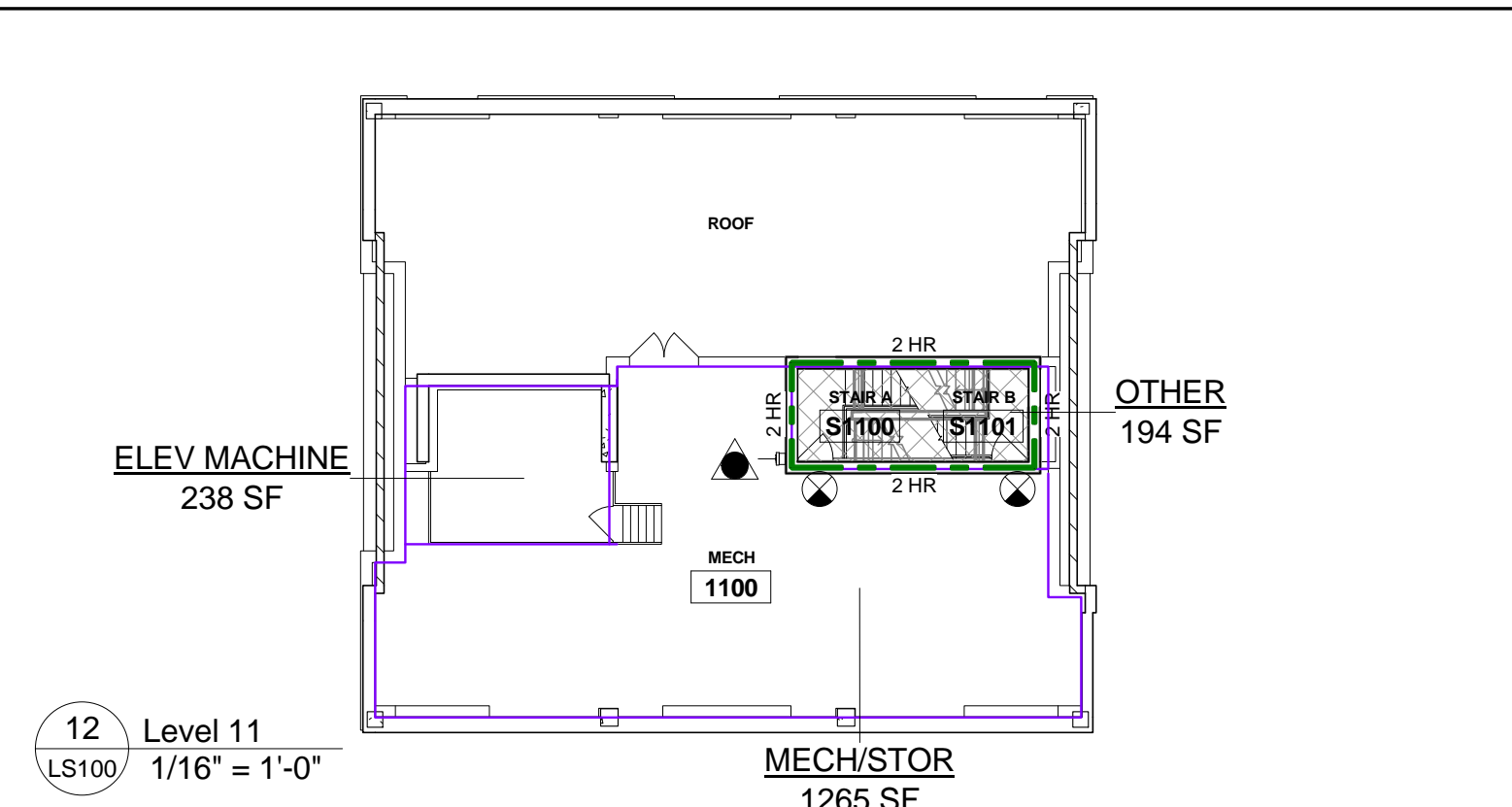
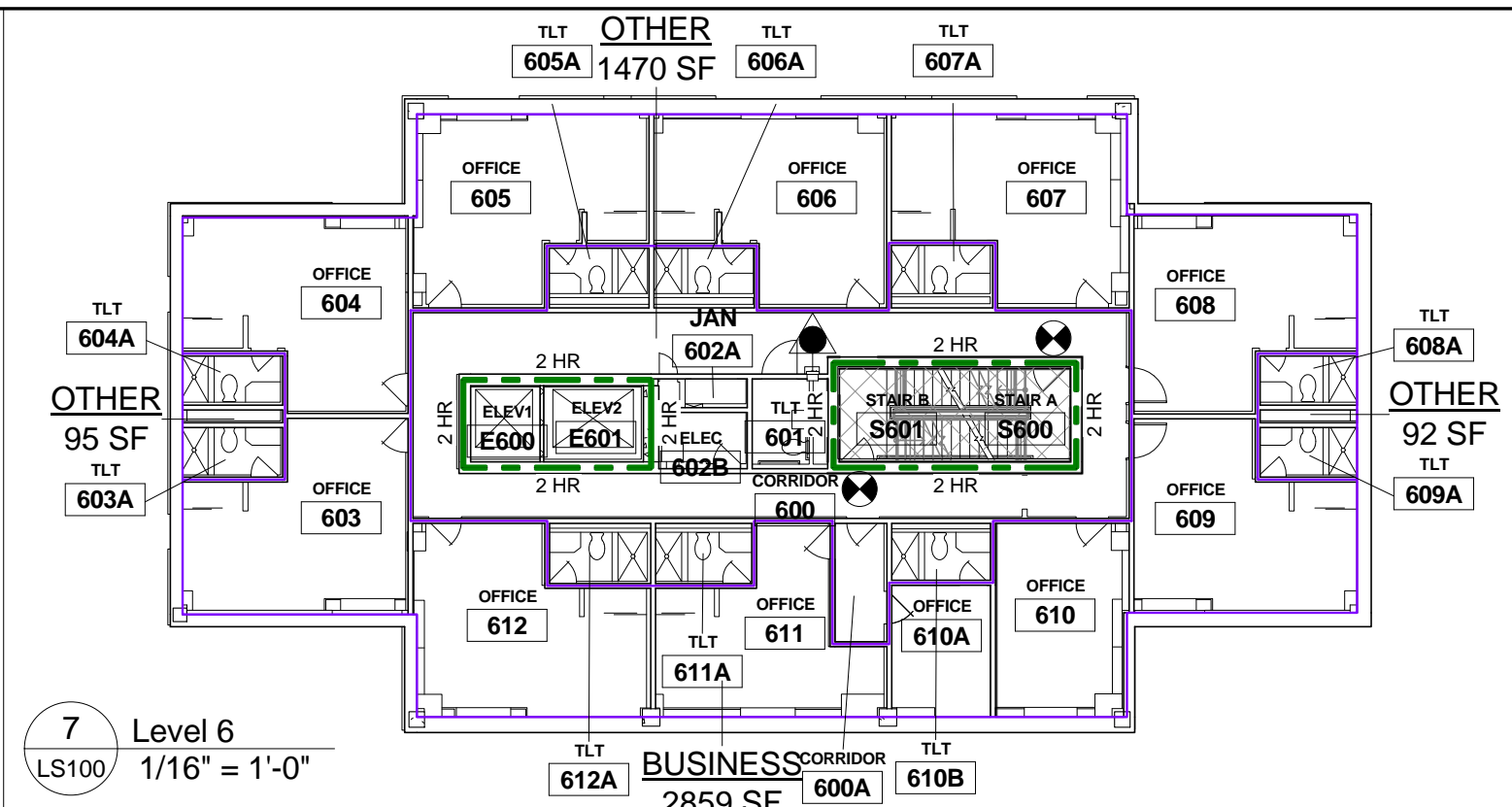
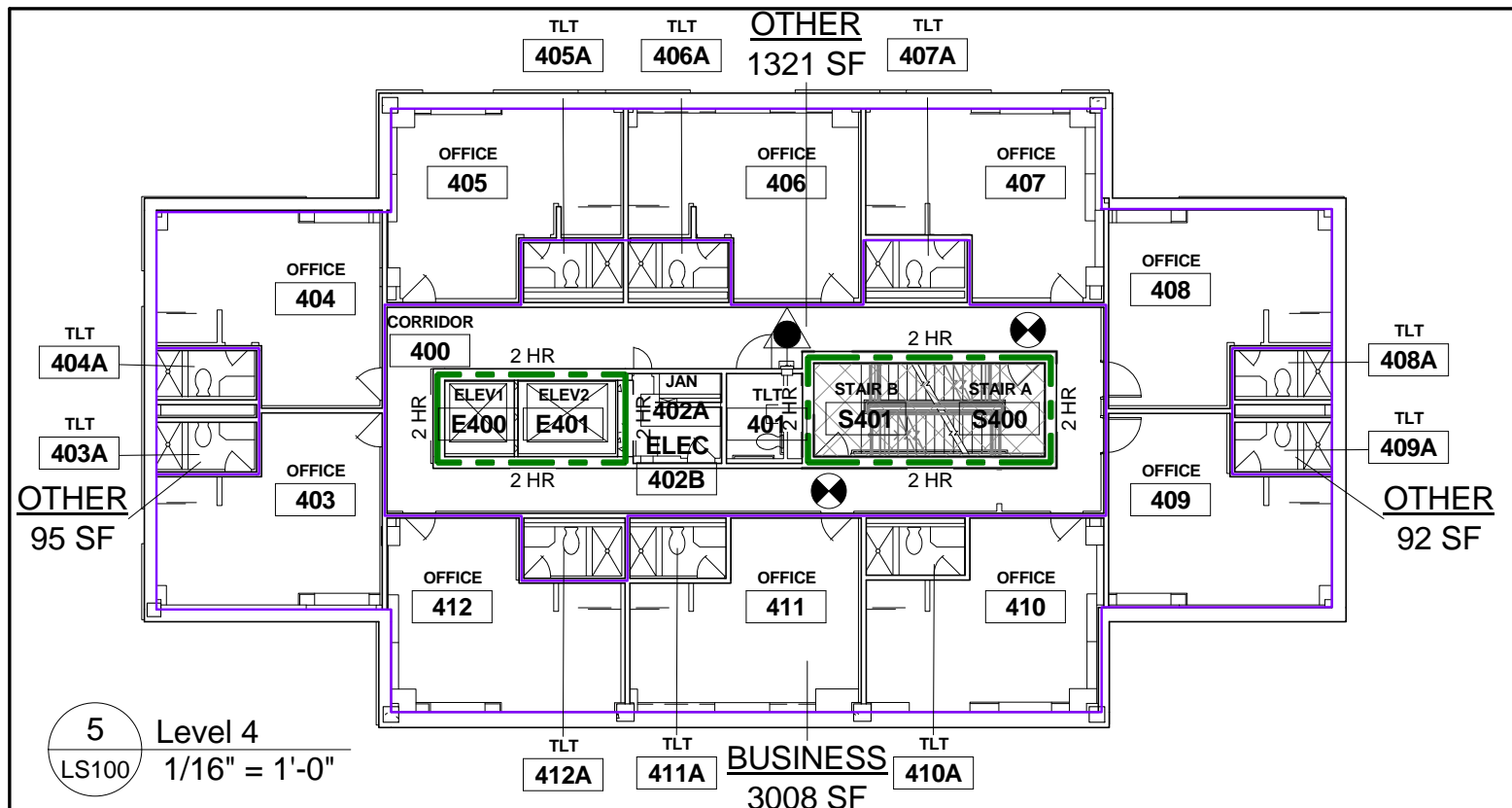


RACHEL E. BIESIK, LICENSE #11710
EXPIRATION DATE: 12/31/2017
DRAWN BY: EC CHECKED BY: RB

COVER SHEET

DATE
July 14, 2017

G100



CODE SUMMARY

APPLICABLE CODE:
2011 OHIO BUILDING CODE
ICC A117.1 - 2009

EXISTING CONDITIONS:
SCHOTT HALL WAS BUILT IN 1988. SCHOTT HALL HAS ELEVEN (11) STORIES ABOVE GRADE. THE EXISTING STRUCTURE OF THE BUILDING IS REINFORCED CONCRETE COLUMNS, BEAMS AND FLOOR SLABS. CHAPEL WING EXTERIOR WALLS ARE SOLID MASONRY LOAD BEARING WALLS.

CHANGE OF USE HISTORY:
IN 1991 THE BUILDING WAS CHANGED FROM R2 (RESIDENTIAL) TO B (BUSINESS) AND A-3 (ASSEMBLY)

PROJECT SCOPE OF WORK:

- PHASE II WORK IS LIMITED TO BASEMENT, 1ST, AND 2ND FLOORS.
- REPLACE AIR HANDLERS AND LIGHT FIXTURES
- ADD INTERIOR EGRESS STAIR FOR 2ND FLR PRESENTATION ROOM.
- MINOR DEMOLITION AND NEW WORK AT THREE OFFICES.
- CONVERT KITCHENETTE TO ACCESSIBLE RESTROOM
- RELOCATE OF STANDING HT DRINKING FOUNTAIN
- REPLACE INTERIOR FINISHES, SIGNAGE AND FURNITURE.

NO NEW AREA IS BEING ADDED TO THE BUILDING.

USE AND OCCUPANCY CLASSIFICATION:

USE GROUP: MIXED USE
B (BUSINESS)
A-3 (ASSEMBLY)

NO CHANGE OF OCCUPANCY

AREA OF MODIFICATIONS:
FIRST FLOOR: 530 SF
SECOND FLOOR: 450 SF
TOTAL: 980 SF

CALCULATION OF OCCUPANT LOAD (OBC 1004.1.1) OTHER=TOILETS AND CORRIDORS:

FLOOR	AREA	FACTOR	OCCUPANT LOAD
BASEMENT:			
MECH/STOR	2,823 SF	/300 GROSS	10
OTHER	737 SF		
TOTAL =	3,560 SF		
FIRST FLOOR:			
BUSINESS	3,200 SF	/100 GROSS	32
MECH/STOR	2,072 SF	/300 GROSS	7
OTHER	2,444 SF		
TOTAL =	7,716 SF		
SECOND FLOOR:			
BUSINESS	4,367 SF	/100 GROSS	44
ASSEMBLY	1,080 SF	/7 NET	155
OTHER	2,089 SF		
TOTAL =	7,742 SF		
THIRD FLOOR:			
BUSINESS	3,008 SF	/100 GROSS	31
OTHER	1,508 SF		
TOTAL =	4,516 SF		
FOURTH FLOOR:			
BUSINESS	3,008 SF	/100 GROSS	31
OTHER	1,508 SF		
TOTAL =	4,516 SF		
FIFTH FLOOR:			
BUSINESS	2,913 SF	/100 GROSS	30
OTHER	1,603 SF		
TOTAL =	4,516 SF		
SIXTH FLOOR:			
BUSINESS	2,859 SF	/100 GROSS	29
OTHER	1,657 SF		
TOTAL =	4,516 SF		
SEVENTH FLOOR:			
BUSINESS	2,859 SF	/100 GROSS	29
OTHER	1,657 SF		
TOTAL =	4,516 SF		
EIGHTH FLOOR:			
BUSINESS	2,912 SF	/100 GROSS	30
OTHER	1,604 SF		
TOTAL =	4,516 SF		
NINTH FLOOR:			
BUSINESS	2,961 SF	/100 GROSS	30
OTHER	1,555 SF		
TOTAL =	4,516 SF		
TENTH FLOOR:			
ASSEMBLY	1,259 SF	/7 NET	180
MECH/STOR	356 SF	/300 GROSS	2
OTHER	1,389 SF		
TOTAL =	3,003 SF		
ELEVENTH FLOOR:			
MECH/STOR	1,503 SF	/300 GROSS	6
OTHER	194 SF		
TOTAL =	1,697 SF		
TOTAL AREA:	55,316 SF	TOTAL OCCUP.	646

CONSTRUCTION TYPE (OBC TABLE 503):
1B
TOTAL BUILDING FOOTPRINT: 8,185 SF (SECOND FLOOR)

BUILDING HEIGHT (OBC 503):
ALLOWABLE HEIGHT: 11 STORIES, 160'-0"
ACTUAL HEIGHT: 11 STORIES, 131'-0"
ALLOWABLE AREA: UNLIMITED

RATED CONSTRUCTION ASSEMBLIES (OBC 601):

DESCRIPTION	RATING	EXISTING
STRUCTURAL FRAME:	2	EXISTING
BEARING WALLS:		
EXTERIOR:	2	EXISTING
INTERIOR:	2	EXISTING
NONBEARING WALLS AND PARTITIONS:		
EXTERIOR:	0	EXISTING
INTERIOR:	AS PER SECTION 802	EXISTING
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOIST:	2	EXISTING
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS:	1	EXISTING

FINISH REQUIREMENTS (OBC 803.9)

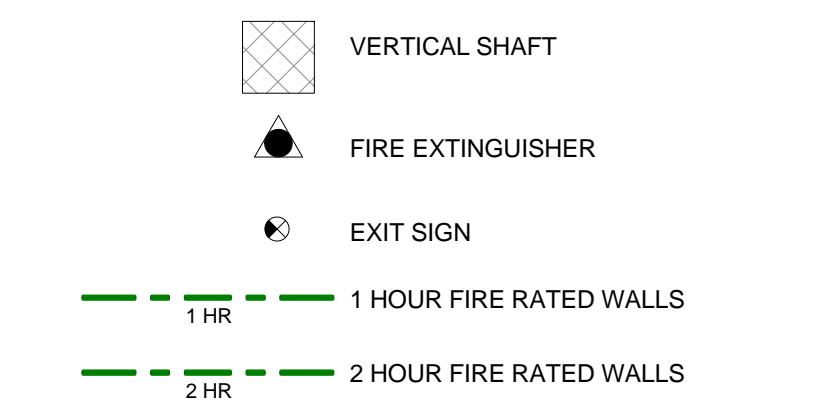
INTERIOR WALL AND CEILING:	CLASS
EXIT ENCLOSURES, EXIT PASSAGEWAYS	CLASS B
CORRIDORS	CLASS B
ROOMS & ENCLOSED SPACES	CLASS C

INTERIOR FLOOR:

EXIT ENCLOSURES, EXIT PASSAGEWAYS	CLASS
CORRIDORS	CLASS II
ALL FLOOR FINISHES	DOCCF-1 "PILL TEST"

FIRE PROTECTION (OBC 903.2):
BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC FIRE PROTECTION SYSTEM. FIRE ALARM AND DETECTION SYSTEMS HAS BEEN PROVIDED IN ACCORDANCE WITH OBC SECTION 907. SPRINKLER DISTRIBUTION DESIGN, FIRE ALARM/DETECTION DESIGN, AND INSTALLATION TO BE PROVIDED BY GENERAL CONTRACTOR ON A DESIGN BUILD BASIS. SPRINKLER DISTRIBUTION AND FIRE ALARM/DETECTION WORK SHALL BE SUBMITTED SEPARATELY FOR REVIEW AND ISSUANCE OF A PERMIT

LIFE SAFETY DRAWING LEGEND



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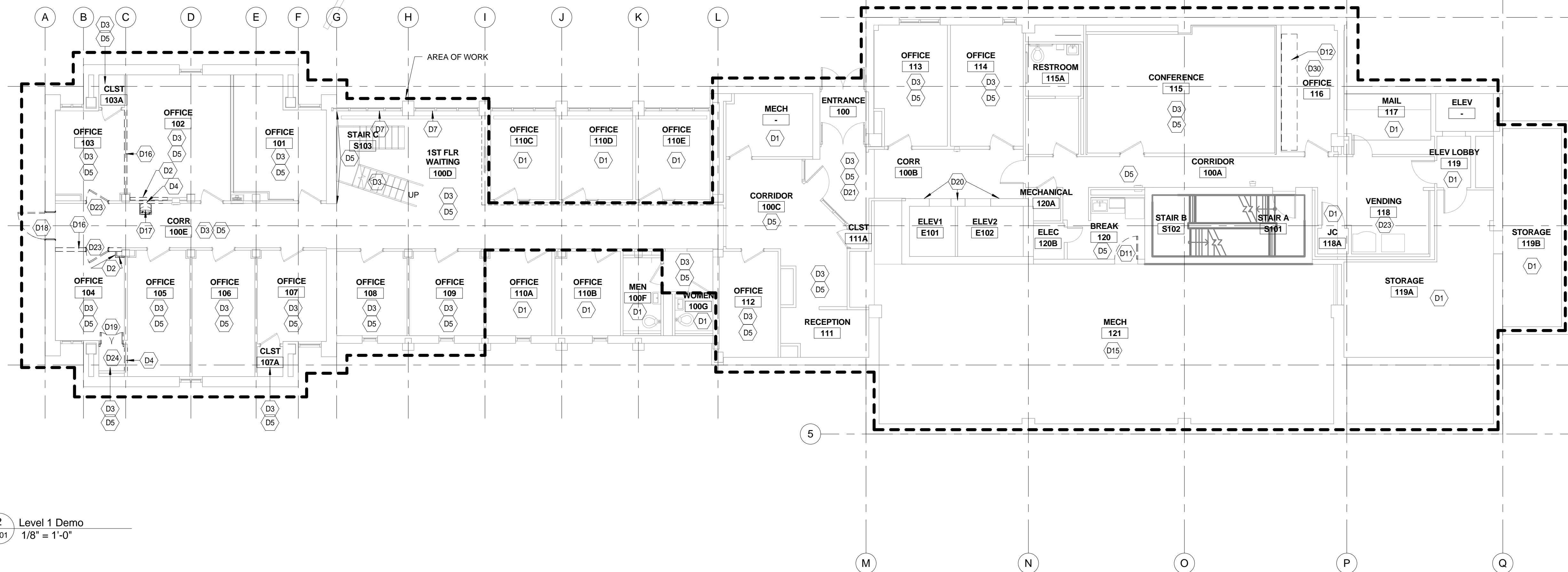
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LIFE SAFETY

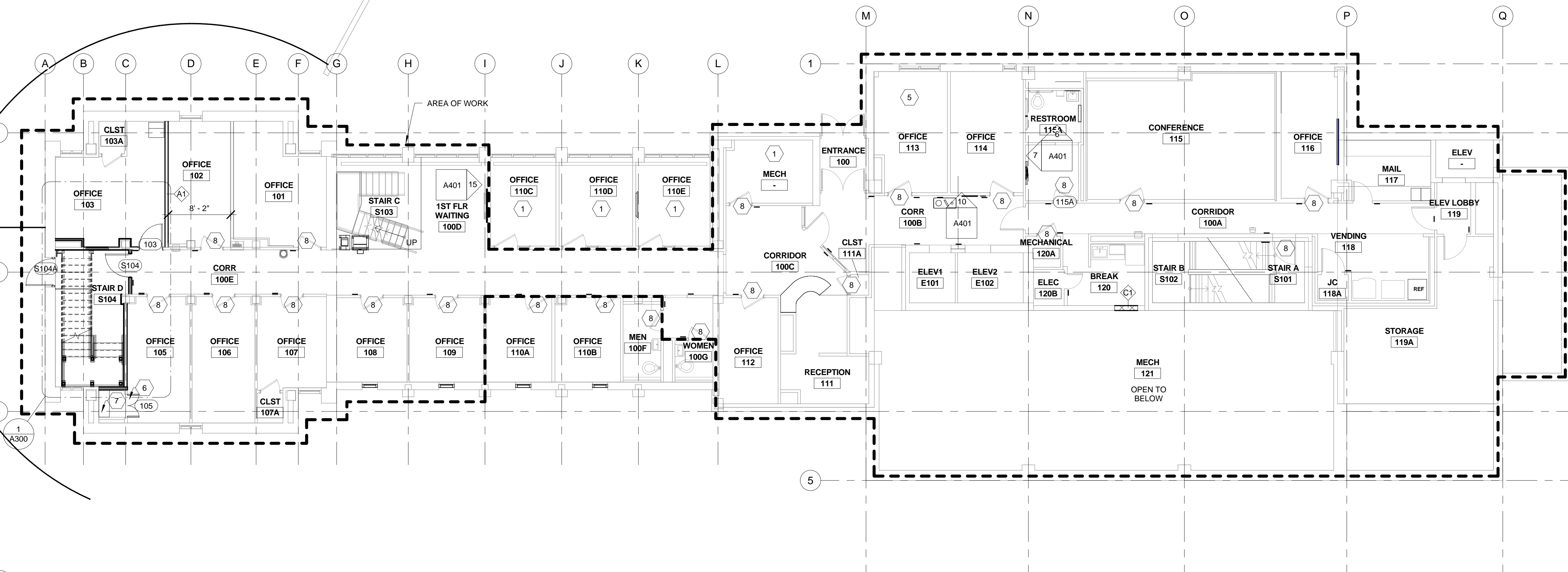
DATE
July 14, 2017

LS100

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2 Level 1 Demo
A101
1/8" = 1'-0"



1 Level 1 New
A101
1/8" = 1'-0"

GENERAL DEMO FLOOR PLAN NOTES

- A. ALL ELEMENTS SHOWN DASHED ARE TO BE DEMOLISHED.
- B. COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- C. IF CONTRACTOR SHOULD DISCOVER ANY UNFORESEEN PROBLEMS DURING THE REMOVAL OF ANY EXISTING CONSTRUCTION OR THE CONSTRUCTION OF ANY NEW WORK, THE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY AND THAT PARTICULAR WORK SHOULD BE DISCONTINUED UNTIL NECESSARY REVISIONS CAN BE DECIDED UPON.
- D. DOORS SHOWN DASHED INDICATE DOORS AND/OR FRAMES TO BE REMOVED OR RELOCATED. ASSOCIATED DOOR TAG NUMBERS INDICATE NEW DOOR/FRAME LOCATION ON NEW FLOOR PLANS. SEE DOOR SCHEDULE A601 FOR ADDITIONAL DOOR SCHEDULE NOTES. RETURN ALL ADDITIONAL DEMOLISHED DOORS TO OWNER FOR RECYCLING.
- E. DEMO EXISTING FLOORING FINISHES AND WALL BASE IN PREPARATION FOR NEW FINISHES. SEE FINISH SCHEDULE A701 FOR LOCATIONS AND TYPES OF NEW FINISHES.
- F. ALL FURNITURE AND EQUIPMENT IN DEMOLISHED SPACES TO BE RETURNED TO OWNER PRIOR TO DEMOLITION, UNLESS OTHERWISE NOTED.
- G. PROTECT EXISTING FLOORING TO REMAIN DURING CONSTRUCTION.

DEMO KEYNOTES

- D1 EXISTING TO REMAIN
- D2 REMOVE EXISTING DRYWALL PARTITION
- D3 REMOVE EXISTING CARPET AND ADHESIVE, PREP EXISTING SLAB FOR NEW FLOOR FINISH
- D4 REMOVE EXISTING WALL FOR NEW OPENING OR DOOR. SEE NEW WORK.
- D5 REMOVE EXISTING WALL BASE.
- D6 REMOVE EXISTING WOOD WALL BASE. SAVE FOR REUSE.
- D7 EXISTING WINDOW TREATMENTS TO REMAIN. PROTECT DURING CONSTRUCTION, OR REMOVE AND REINSTALL.
- D8 REMOVE EXISTING CONCRETE SLAB. SHORE AS REQUIRED TO INSTALL NEW WORK. SEE STRUCTURAL DRAWINGS FOR NEW SUPPORTS.
- D9 REMOVE EXISTING METAL STORAGE CABINETS AND SAVE FOR REUSE. RELOCATE FACING CORRIDOR 200D. REMOVE EXISTING THINSET MARBLE TILE FLOOR, PREPARE SUBFLOOR FOR NEW FINISH.
- D10 REMOVE EXISTING RETURN GRILL AND DUCTWORK. SEE MEP DRAWINGS FOR NEW WORK
- D11 REMOVE EXISTING DOOR AND FRAME. DONATE TO 'BUILDING VALUE'.
- D12 REMOVE EXISTING COUNTERTOP AND BRACKETS. PATCH WALL.
- D13 DEMO EXISTING SLAB FOR NEW DUCT PENETRATION. CUT ONLY ONE REBAR PARALLEL TO THE LONG DIMENSION OF THE PENETRATION.
- D14 REMOVE EXISTING VHS AUDIO SYSTEM AND SUPPORTING STRUCTURE.
- D15 EXISTING STEEL GRATE MEZZANINE AND STEEL SUPPORT STRUCTURE TO BE REMOVED BY MECH.
- D16 REMOVE EXISTING WALL (MASONRY WITH GWB)
- D17 EXISTING DRINKING FOUNTAIN TO BE RELOCATED. SEE PLUMBING
- D18 REMOVE EXISTING EXTERIOR DOOR, FRAME, AND HARDWARE
- D19 REMOVE AND SALVAGE EXISTING DOOR, FRAME, AND HARDWARE FOR REUSE
- D20 REMOVE WOOD TRIM AROUND ELEVATOR DOORS. PATCH AND PREPARE WALL FOR NEW WALL COVERING
- D21 REMOVE EXISTING WALL COVERING. PREPARE WALL FOR NEW WALLCOVERING
- D22 REMOVE PLYWOOD AND METAL STUD LID IN EXISTING PLANTER
- D23 REMOVE EXISTING DOOR AND FRAME. RETURN TO OWNER.
- D24 REMOVE EXISTING SHELVES AND STDS
- D25 REMOVE EXISTING BASE AND WALL CABINETS AND COUNTERTOP. RETURN REFRIGERATOR TO OWNER.
- D26 REMOVE EXISTING PODIUM AND RETURN TO OWNER
- D27 REMOVE EXISTING VINYL DECAL / APPLIED LETTERING. PREPARE WALL FOR PAINT OR NEW VINYL
- D28 REMOVE EXISTING FIREPLACE, PATCH WALL.
- D29 REMOVE DECAL FROM GLASS TRANSOM
- D30 REMOVE EXISTING VCT. PREP FOR NEW FLOOR FINISH.
- D31 REMOVE EXISTING GLASS TRANSOM ABOVE WALL. PATCH EXISTING WALL AND TRIM

GENERAL NEW FLOOR PLAN NOTES

- A. ITEMS TAGGED OR NOTED ARE NEW UNLESS NOTED 'EXISTING.'
- B. IN ROOMS RECEIVING NEW PAINT, PATCH AND REPAIR EXISTING GYP BOARD, PAINT ALL WALLS, HM TRIM AND GYP CEILING & SOFFITS PER FINISH SCHEDULE.
- C. SEE A601 FOR PARTITION TYPES

NEW CONSTRUCTION KEYNOTES

- 1 EXISTING TO REMAIN
- 2 AUTO DOOR OPERATOR PUSH-BUTTON
- 3 ADD OPENING IN EXISTING WALL. RETURN DRYWALL AT OPENING.
- 4 NEW RETURN GRILL. SEE MECH DRAWINGS. SAW CUT EXISTING CONCRETE FLOOR. CUT ONLY ONE REBAR PARALLEL TO THE LONG DIMENSION OF THE PENETRATION.
- 5 REMOVE AND REPLACE WATER DAMAGED GWB AT BOTTOM PERIMETER OF ROOM.
- 6 REINSTALL EXISTING SALVAGED DOORS, DOORFRAME & HARDWARE
- 7 ADJUSTABLE SHELVES (16" DEEP). SEE SPEC SECTION 06 40 00. PROVIDE 5 SHELVES PER EACH SHOWN. PROVIDE STDS AT 16" O.C. MAX. PROVIDE WOOD BLOCKING.
- 8 CLEAN AND PROVIDE TOUCH UP STAIN ON KNOTS AND SCRATCHES AT EXISTING WOOD VENEER DOORS

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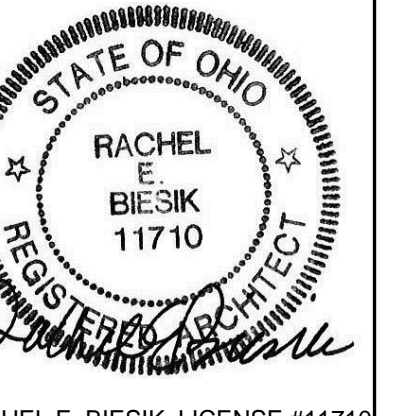


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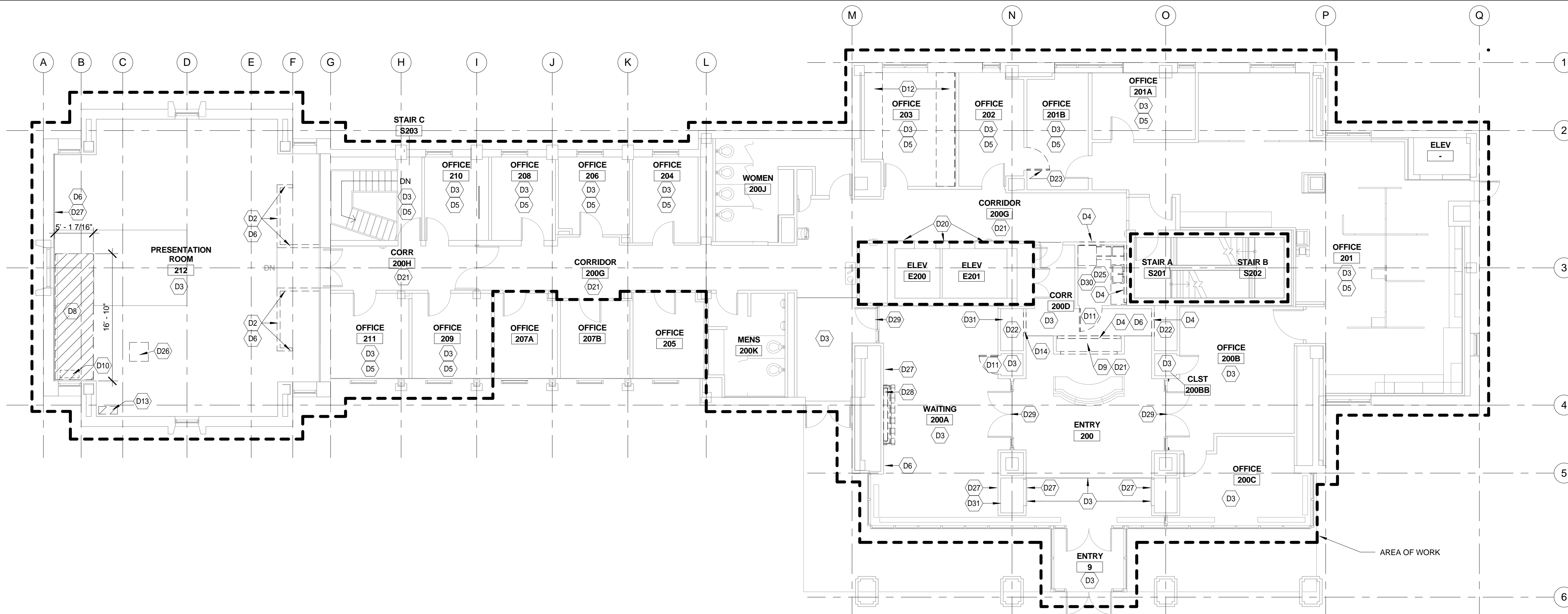
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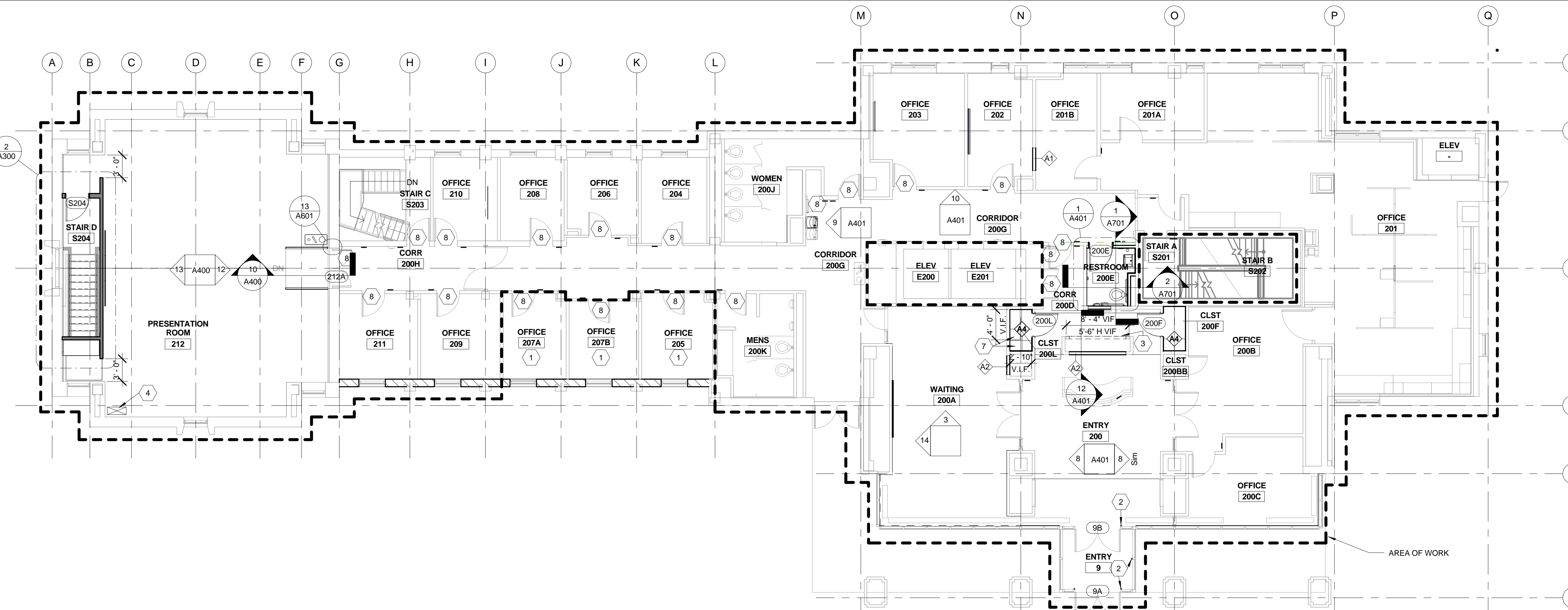
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**1ST FLR-
DEMO &
NEW**

DATE
July 14, 2017
A101



1 Level 2 Demo P1
A102
1/8" = 1'-0"



2 Level 2 New P1
A102
1/8" = 1'-0"

GENERAL DEMO FLOOR PLAN NOTES

- A. ALL ELEMENTS SHOWN DASHED ARE TO BE DEMOLISHED.
- B. COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- C. IF CONTRACTOR SHOULD DISCOVER ANY UNFORESEEN PROBLEMS DURING THE REMOVAL OF ANY EXISTING CONSTRUCTION OR THE CONSTRUCTION OF ANY NEW WORK, THE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY AND THAT PARTICULAR WORK SHOULD BE DISCONTINUED UNTIL NECESSARY REVISIONS CAN BE DECIDED UPON.
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- D29 REMOVE DECAL FROM GLASS TRANSOM
- D30 REMOVE EXISTING VCT. PREP FOR NEW FLOOR FINISH.
- D31 REMOVE EXISTING GLASS TRANSOM ABOVE WALL. PATCH EXISTING WALL AND TRIM

GENERAL NEW FLOOR PLAN NOTES

- A. ITEMS TAGGED OR NOTED ARE NEW UNLESS NOTED 'EXISTING.'
- B. IN ROOMS RECEIVING NEW PAINT, PATCH AND REPAIR EXISTING GYP BOARD. PAINT ALL WALLS, HM TRIM AND GYP CEILING & SOFFITS PER FINISH SCHEDULE.
- C. SEE A601 FOR PARTITION TYPES

NEW CONSTRUCTION KEYNOTES

- 1 EXISTING TO REMAIN
- 2 AUTO DOOR OPERATOR PUSH-BUTTON
- 3 ADD OPENING IN EXISTING WALL. RETURN DRYWALL AT OPENING.
- 4 NEW RETURN GRILL. SEE MECH DRAWINGS. SAW CUT EXISTING CONCRETE FLOOR. CUT ONLY ONE REBAR PARALLEL TO THE LONG DIMENSION OF THE PENETRATION.
- 5 REMOVE AND REPLACE WATER DAMAGED GWB AT BOTTOM PERIMETER OF ROOM.
- 6 REINSTALL EXISTING SALVAGED DOORS, DOORFRAME & HARDWARE
- 7 ADJUSTABLE SHELVES (16" DEEP). SEE SPEC SECTION 06 40 00. PROVIDE 5 SHELVES PER EACH SHOWN. PROVIDE STD'S AT 16" O.C. MAX. PROVIDE WOOD BLOCKING.
- 8 CLEAN AND PROVIDE TOUCH UP STAIN ON KNOCKS AND SCRATCHES AT EXISTING WOOD VENEER DOORS

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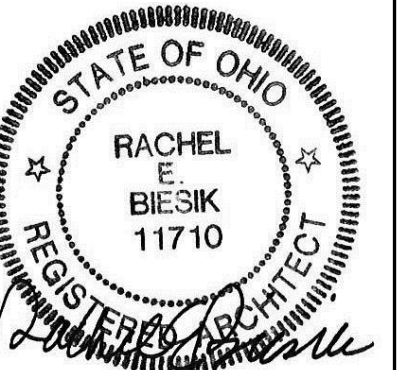


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No.	Description	Date
1	BID & PERMIT	07/14/17



RACHEL E. BIESIK, LICENSE #11710
EXPIRATION DATE: 12/31/2017
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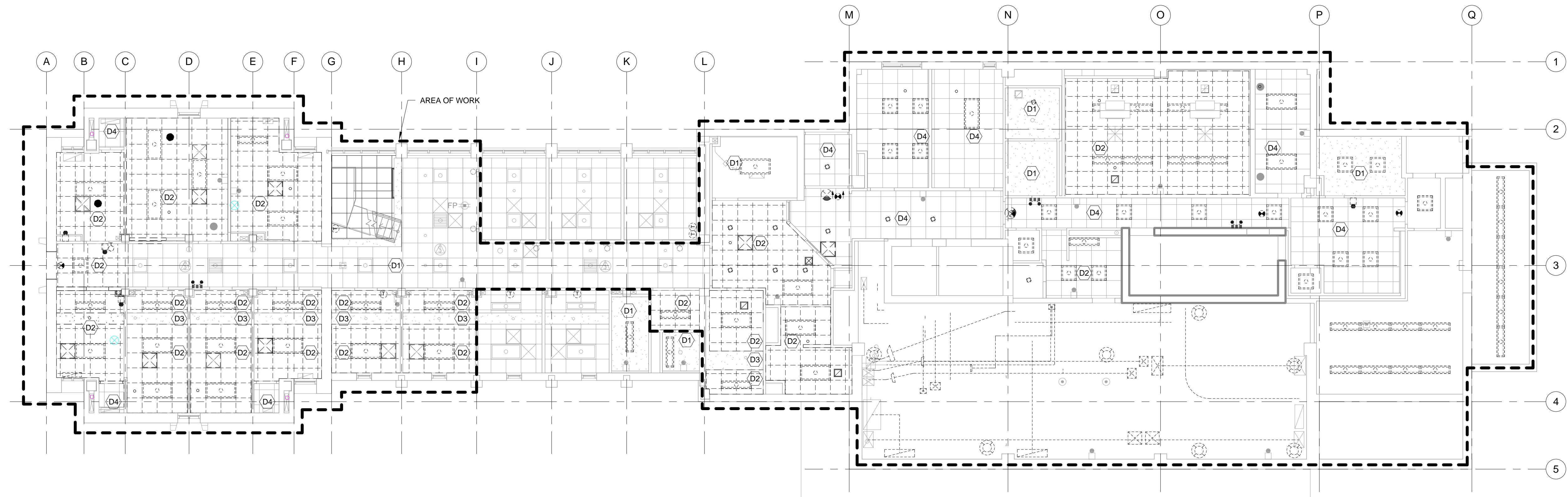
**2ND FLR -
DEMO &
NEW**

DATE
July 14, 2017

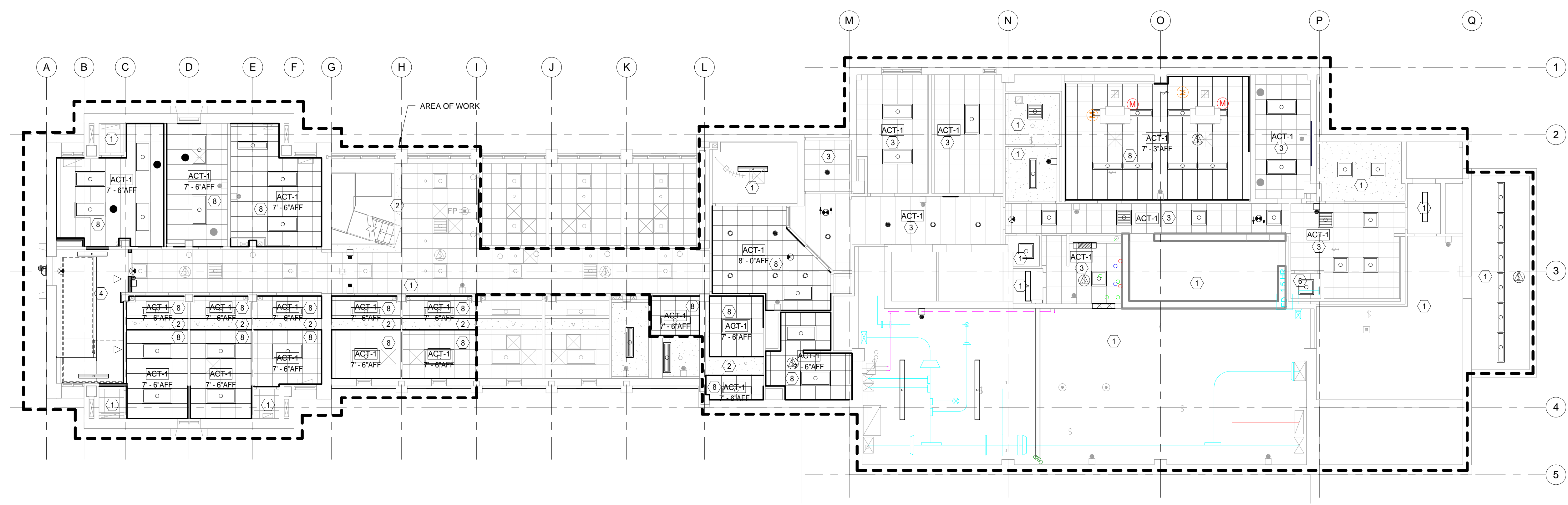
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2 Level 1 - DEMO RCP
A201 1/8" = 1'-0"



1 Level 1 - NEW RCP
A201 1/8" = 1'-0"

GENERAL DEMO CEILING PLAN NOTES

- A. ALL ELEMENTS SHOWN DASHED ARE TO BE DEMOLISHED. DEMO EXISTING CEILING GRID AND BULKHEADS SHOWN DASHED IN PREPARATION FOR NEW FINISHES. SEE FINISH SCHEDULE A701 FOR LOCATIONS AND TYPES OF NEW FINISHES.
- B. COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- C. IF CONTRACTOR SHOULD DISCOVER ANY UNFORESEEN PROBLEMS DURING THE REMOVAL OF ANY EXISTING CONSTRUCTION OR THE CONSTRUCTION OF ANY NEW WORK, THE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY AND THAT PARTICULAR WORK SHOULD BE DISCONTINUED UNTIL NECESSARY REVISIONS CAN BE DECIDED UPON.

DEMO RCP KEYNOTES

- D1 EXISTING CEILING TO REMAIN.
- D2 REMOVE EXISTING CEILING TILE, GRID DEVICES, AND ALL ASSOCIATED SUPPORTS. SEE MEP DRAWINGS FOR SCOPE OF WORK.
- D3 EXISTING SOFFIT TO REMAIN
- D4 REMOVE EXISTING CEILING TILES, CLEAN EXISTING GRID. SEE NEW RCP FOR NEW TILES
- D5 REMOVE EXISTING PLYWOOD LID AND METAL FRAMING AT PART-HT WALLS.

CEILING LEGEND

	CEILING HEIGHT		2x2 LIGHT FIXTURE
	EXISTING CEILING GRID		2x4 LIGHT FIXTURE
	DEMO CEILING GRID		1x4 LIGHT FIXTURE
	NEW CEILING GRID		1/2 GLOBE
			1/2 GLOBE
			1/4 GLOBE SCONCE
			SURFACE MOUNTED FLUORESCENT
			WALL MOUNTED FLUORESCENT
	EXIT SIGN		4\" WALL WASH
	RETURN DIFFUSER		8\" WALL WASH
	SUPPLY DIFFUSER		8\" CAN
	WIRELESS ACCESS POINT (WAP)		
	SPRINKLER HEAD		

GENERAL NEW CEILING PLAN NOTES

- A. EXISTING CEILING TILE TO REMAIN TYP. MODIFY EXISTING CEILING TILES TO RECEIVE NEW LIGHTS NEEDED.
- B. ALL ELEMENTS SHOWN DARK ARE NEW CONSTRUCTION.
- C. COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- D. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SPECIFIC INFORMATION ON PRODUCTS USED.
- E. REMOVE AND REINSTALL EXISTING CEILING DEVICES AS NEEDED TO INSTALL NEW WORK.
- F. NEW PARTITION TYPE INFORMATION IS LOCATED ON A601.
- G. SEE FINISH SCHEDULE A701 FOR LOCATIONS AND TYPES OF NEW FINISHES.

NEW RCP KEYNOTES

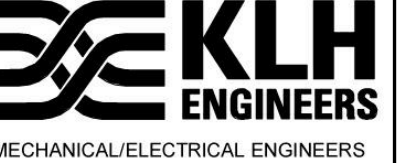
- 1 EXISTING CEILING OR EXPOSED STRUCTURE TO REMAIN.
- 2 PAINT EXISTING SOFFIT P-2
- 3 EXISTING GRID TO REMAIN, CLEAN GRID, INSTALL NEW ACT-1 TILES
- 4 PAINT EXISTING CONCRETE EXPOSED STRUCTURE AND PIPING
- 5 NEW WALL WASH LIGHT FIXTURE. SEE ELEC DRAWINGS. LIGHTING SHOULD BE INSTALLED BEFORE WALL TILE TO REDUCE WALL SHADOWS.
- 6 REMOVE AND REINSTALL EXISTING CEILING AS NEEDED TO INSTALL NEW WORK. SEE MEP DRAWINGS
- 7 PROVIDE NEW GWB CEILING ABOVE LAY-IN-TILE FOR ACOUSTIC SEPARATION. SEE PARTITION NOTES ON A701 FOR MORE INFORMATION
- 8 PROVIDE NEW CEILING GRID AND TILE IN ENTIRE ROOM. SEE MEP DRAWINGS FOR NEW DEVICES
- 9 REMOVE AND REINSTALL EXISTING GRID AND ACT-2 AS NEEDED WHERE NEW WALLS ARE INSTALLED.
- 10 NEW 1 HOUR RATED GYP HORIZ SHAFTWALL CEILING. SEE A300.

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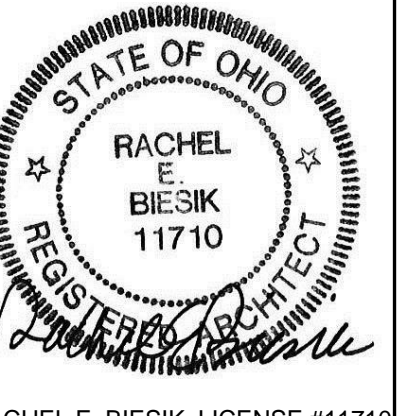
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No.	Description	Date
1	BID & PERMIT	07/14/17



RACHEL E. BIESIK, LICENSE #11710
EXPIRATION DATE: 12/31/2017
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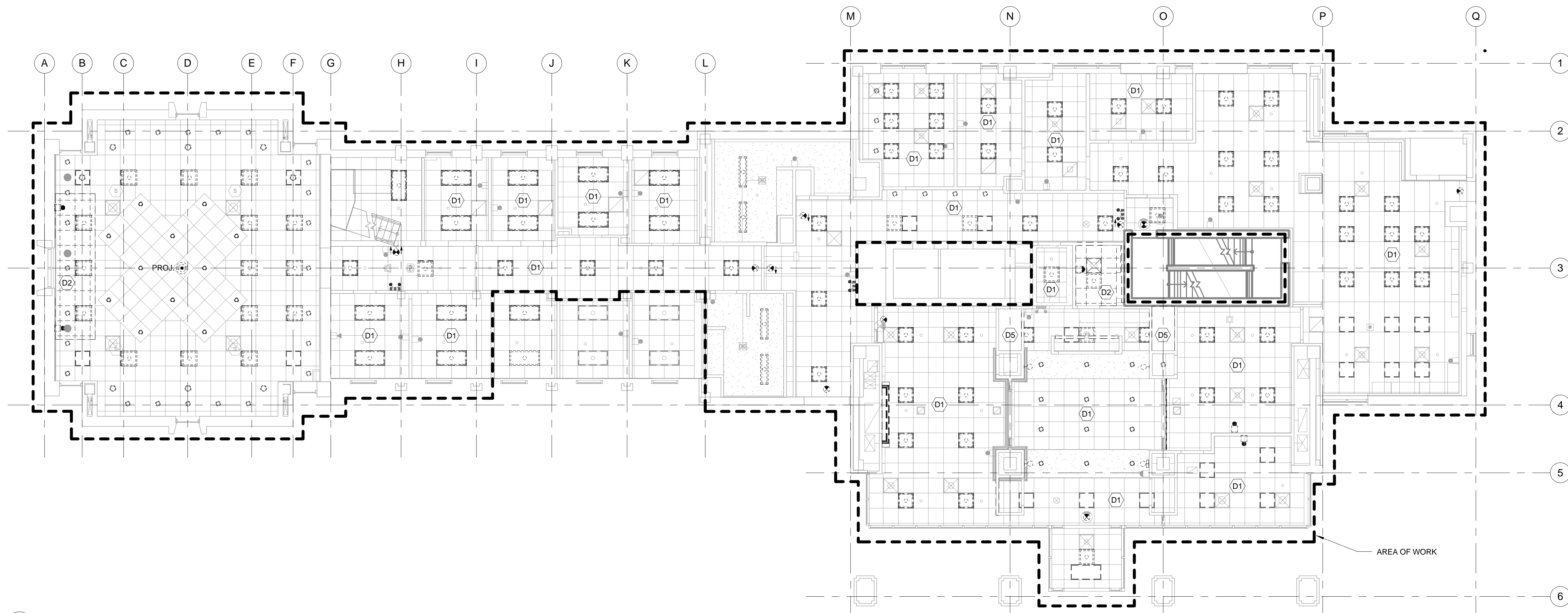
**1ST RCP -
DEMO &
NEW**

DATE
July 14, 2017

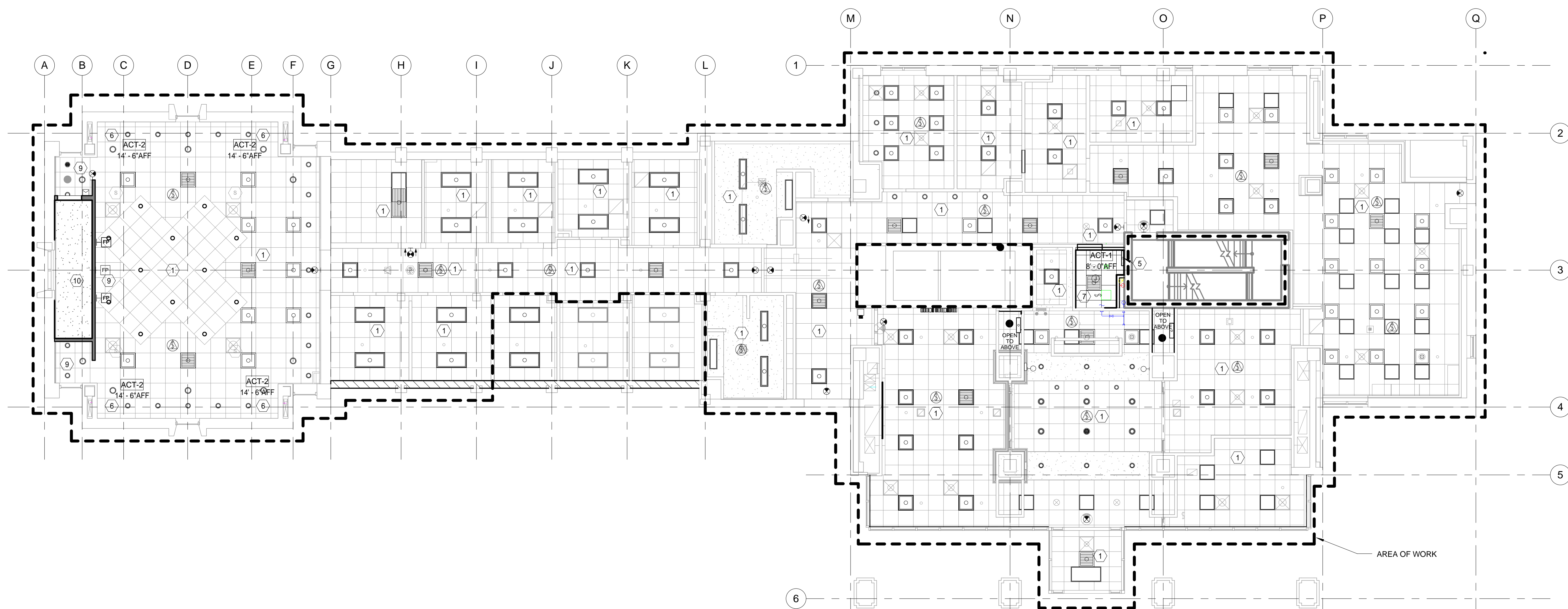
A201

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2 Level 2 - DEMO RCP
A202 1/8" = 1'-0"



1 Level 2 - NEW RCP
A202 1/8" = 1'-0"

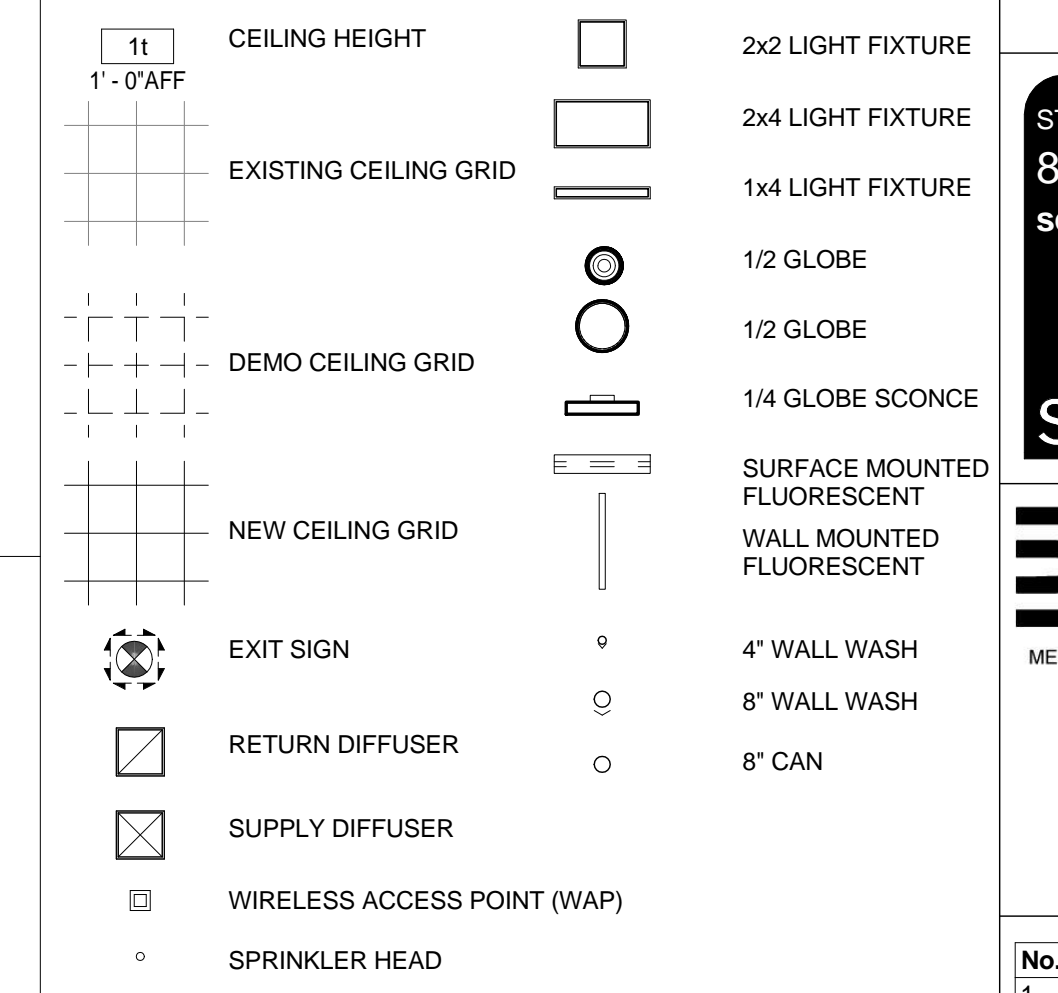
GENERAL DEMO CEILING PLAN NOTES

- ALL ELEMENTS SHOWN DASHED ARE TO BE DEMOLISHED. DEMO EXISTING CEILING GRID AND BULKHEADS SHOWN DASHED IN PREPARATION FOR NEW FINISHES. SEE FINISH SCHEDULE A701 FOR LOCATIONS AND TYPES OF NEW FINISHES.
- COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- IF CONTRACTOR SHOULD DISCOVER ANY UNFORESEEN PROBLEMS DURING THE REMOVAL OF ANY EXISTING CONSTRUCTION OR THE CONSTRUCTION OF ANY NEW WORK, THE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY AND THAT PARTICULAR WORK SHOULD BE DISCONTINUED UNTIL NECESSARY REVISIONS CAN BE DECIDED UPON.

DEMO RCP KEYNOTES

- EXISTING CEILING TO REMAIN
- REMOVE EXISTING CEILING TILE, GRID, DEVICES, AND ALL ASSOCIATED SUPPORTS. SEE MEP DRAWINGS FOR SCOPE OF WORK
- EXISTING SOFFIT TO REMAIN
- REMOVE EXISTING CEILING TILES, CLEAN EXISTING GRID. SEE NEW RCP FOR NEW TILES
- REMOVE EXISTING PLYWOOD LID AND METAL FRAMING AT PART-HT WALLS.

CEILING LEGEND



GENERAL NEW CEILING PLAN NOTES

- EXISTING CEILING TILE TO REMAIN TYP. MODIFY EXISTING CEILING TILES TO RECEIVE NEW LIGHTS NEEDED.
- ALL ELEMENTS SHOWN DARK ARE NEW CONSTRUCTION.
- COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SPECIFIC INFORMATION ON PRODUCTS USED.
- REMOVE AND REINSTALL EXISTING CEILING DEVICES AS NEEDED TO INSTALL NEW WORK.
- NEW PARTITION TYPE INFORMATION IS LOCATED ON A601.
- SEE FINISH SCHEDULE A701 FOR LOCATIONS AND TYPES OF NEW FINISHES.

NEW RCP KEYNOTES

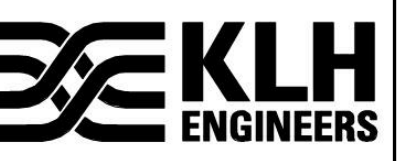
- EXISTING CEILING OR EXPOSED STRUCTURE TO REMAIN.
- PAINT EXISTING SOFFIT P-2
- EXISTING GRID TO REMAIN, CLEAN GRID, INSTALL NEW ACT-1 TILES
- PAINT EXISTING CONCRETE EXPOSED STRUCTURE AND PIPING
- NEW WALL WASH LIGHT FIXTURE, SEE ELEC DRAWINGS, LIGHTING SHOULD BE INSTALLED BEFORE WALL TILE TO REDUCE WALL SHADOWS.
- REMOVE AND REINSTALL EXISTING CEILING AS NEEDED TO INSTALL NEW WORK. SEE MEP DRAWINGS
- PROVIDE NEW GWB CEILING ABOVE LAY-IN-TILE FOR ACOUSTIC SEPARATION, SEE PARTITION NOTES ON A701 FOR MORE INFORMATION
- PROVIDE NEW CEILING GRID AND TILE IN ENTIRE ROOM, SEE MEP DRAWINGS FOR NEW DEVICES
- REMOVE AND REINSTALL EXISTING GRID AND ACT-2 AS NEEDED WHERE NEW WALLS ARE INSTALLED.
- NEW 1 HOUR RATED GYP HORIZ SHAFTWALL CEILING. SEE A300.

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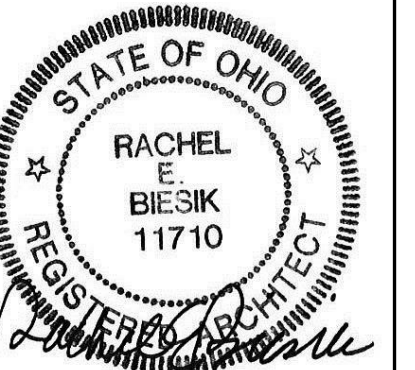
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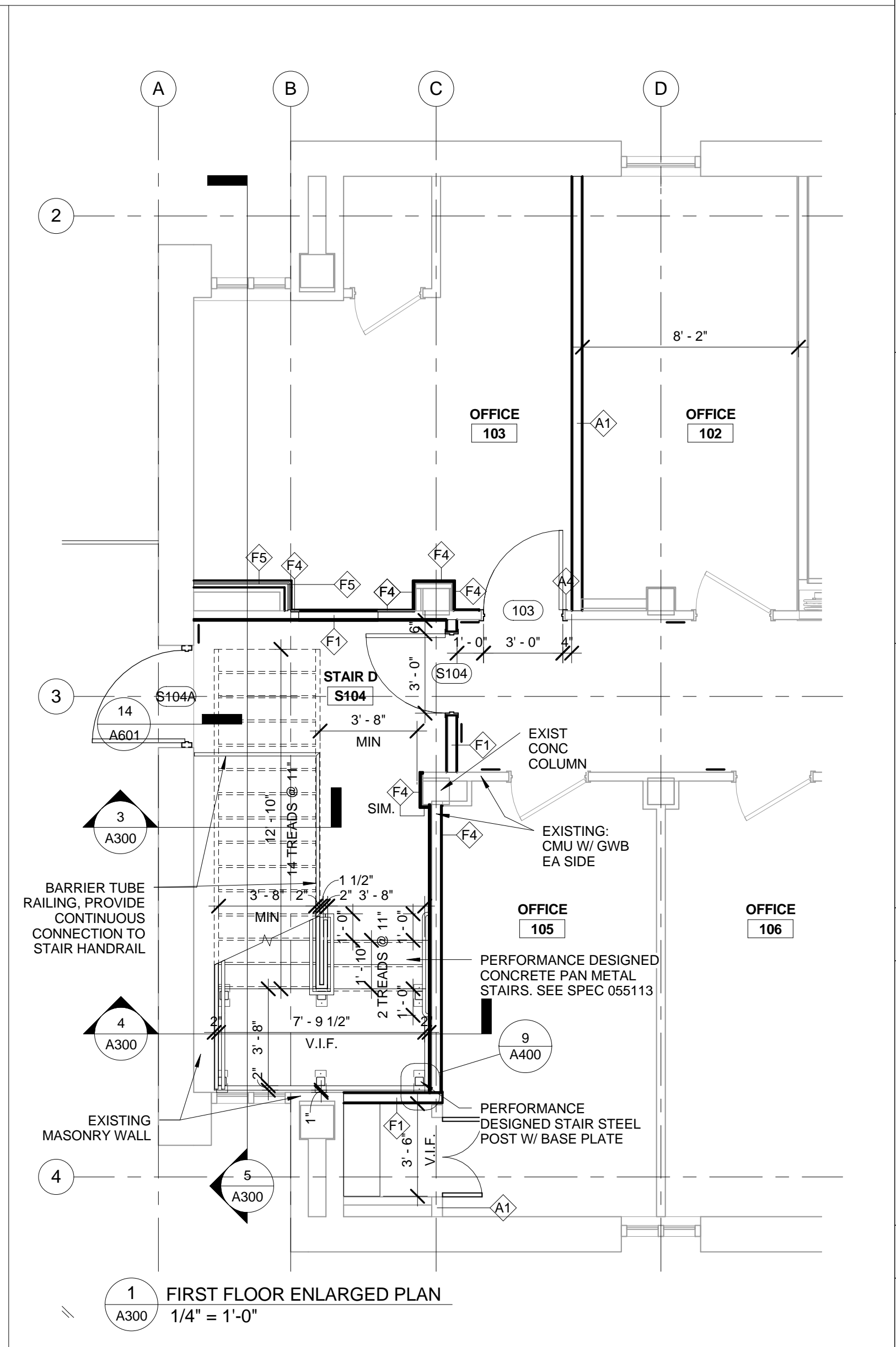
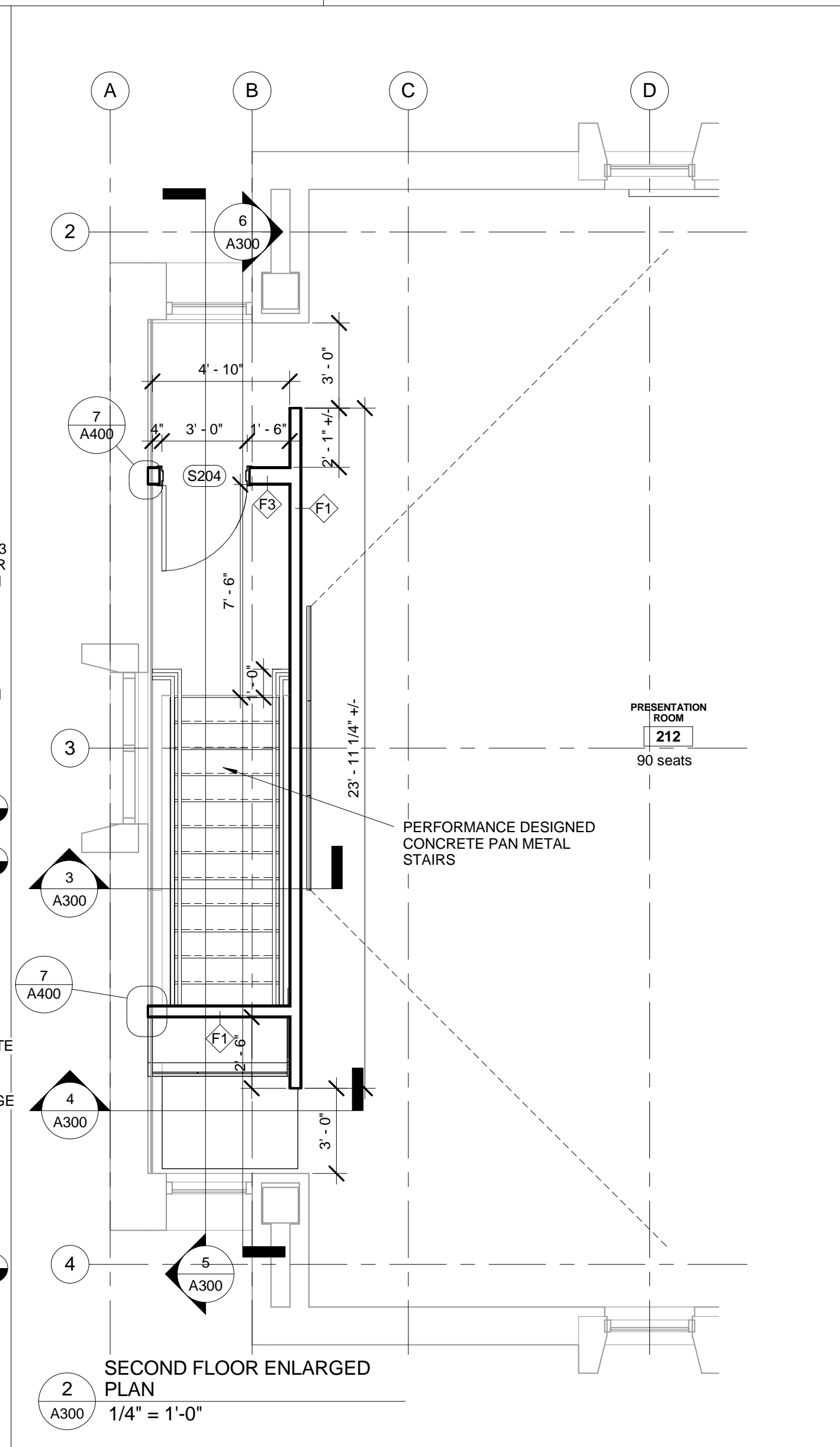
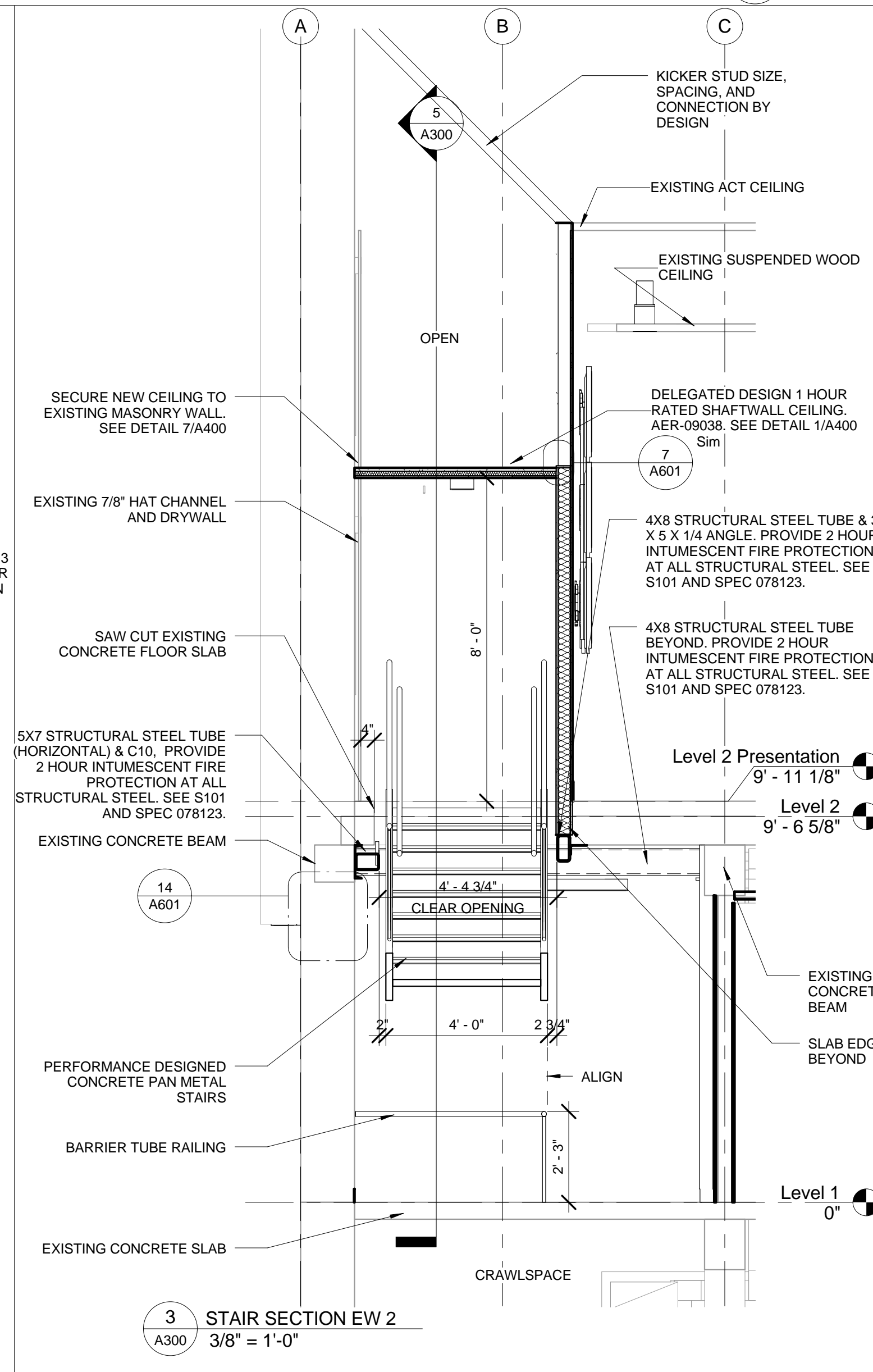
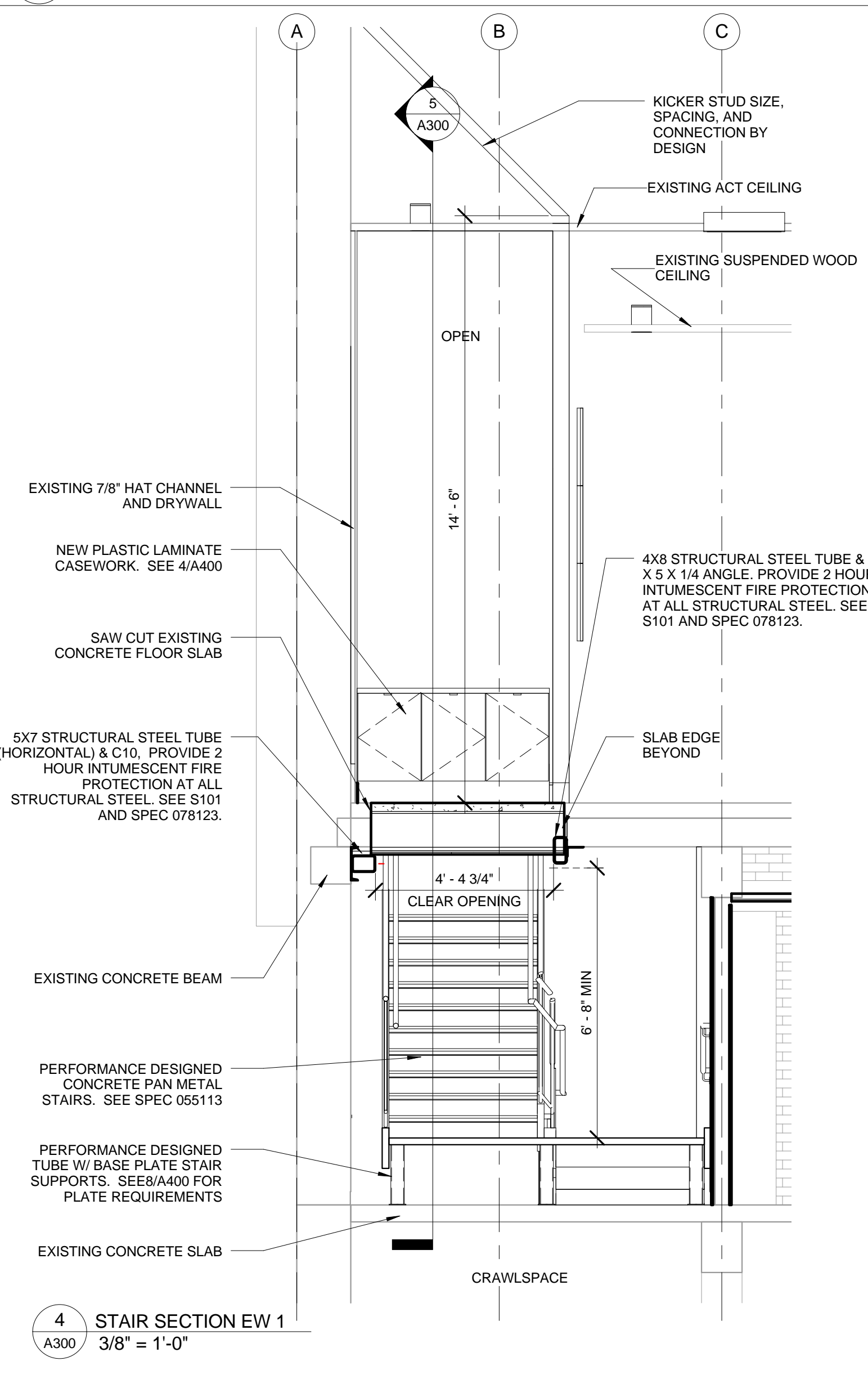
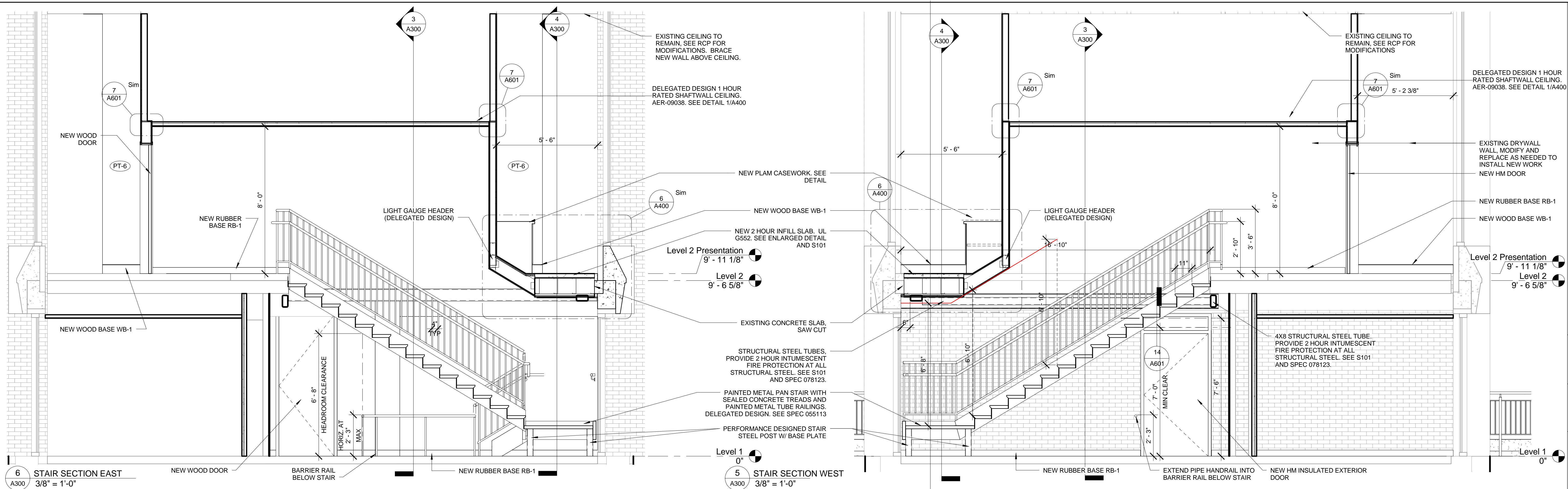
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**2ND RCP -
DEMO &
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DATE
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A202

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No.	Description	Date
1	BID & PERMIT	07/14/17

STATE OF OHIO
REGISTERED PROFESSIONAL ENGINEER
RACHEL E. BIESIK
11710

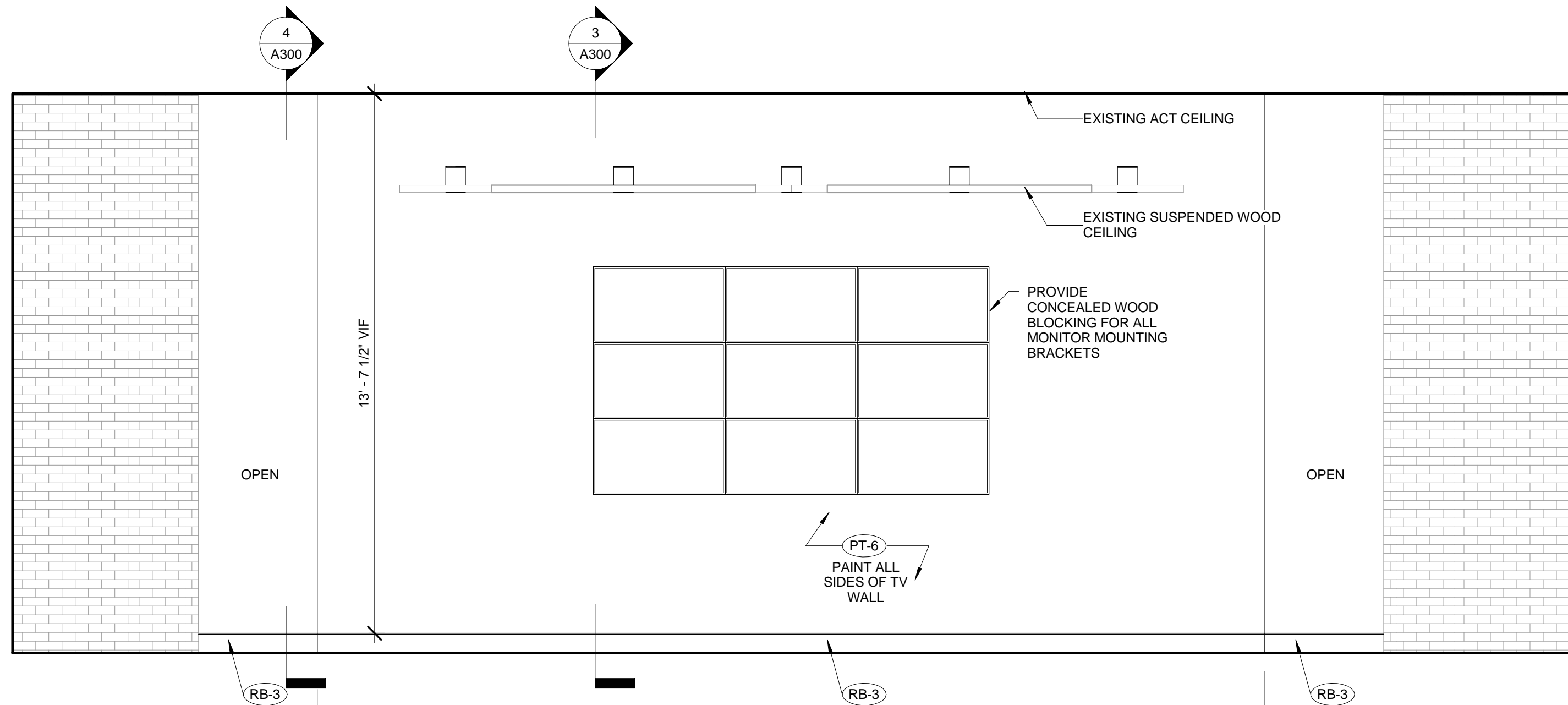
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EXPIRATION DATE: 12/31/2017
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ENLARGED STAIR PLANS AND ELEVATIONS

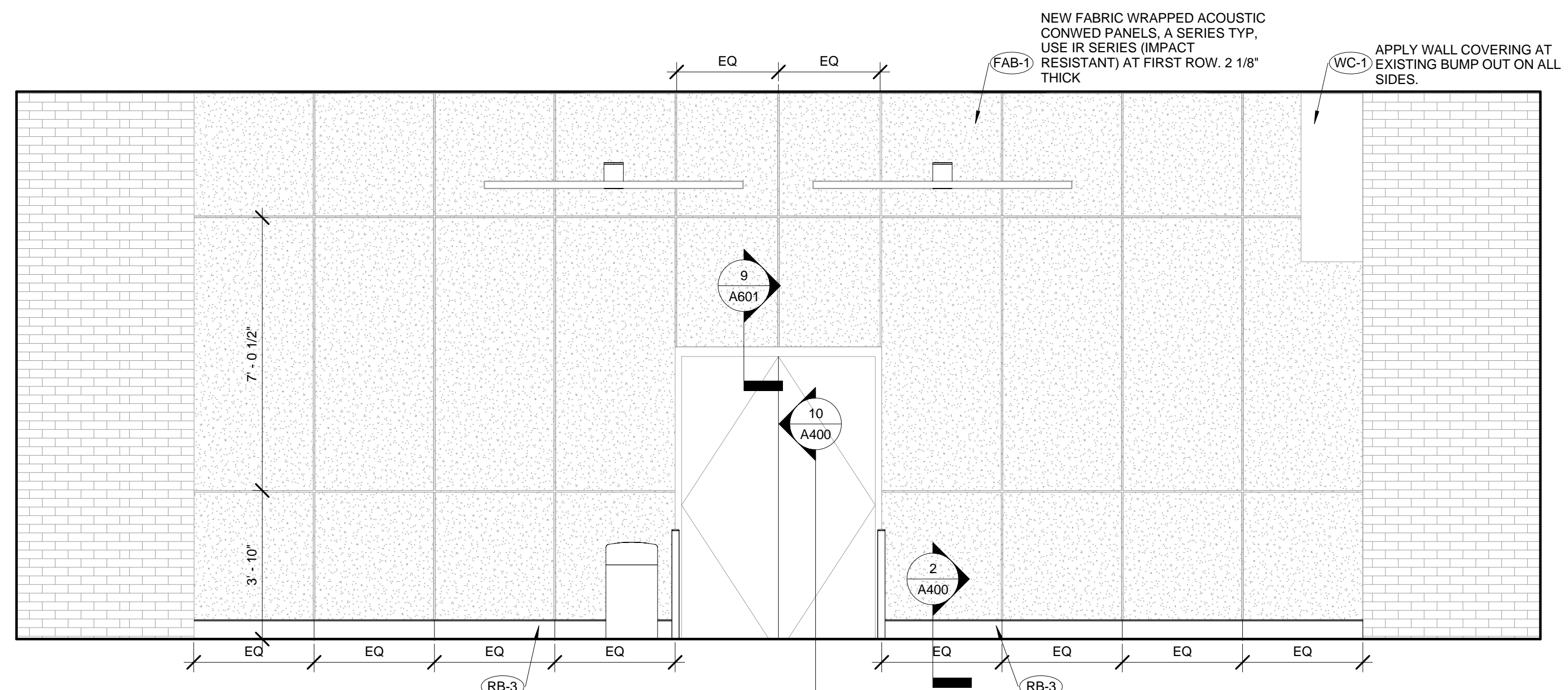
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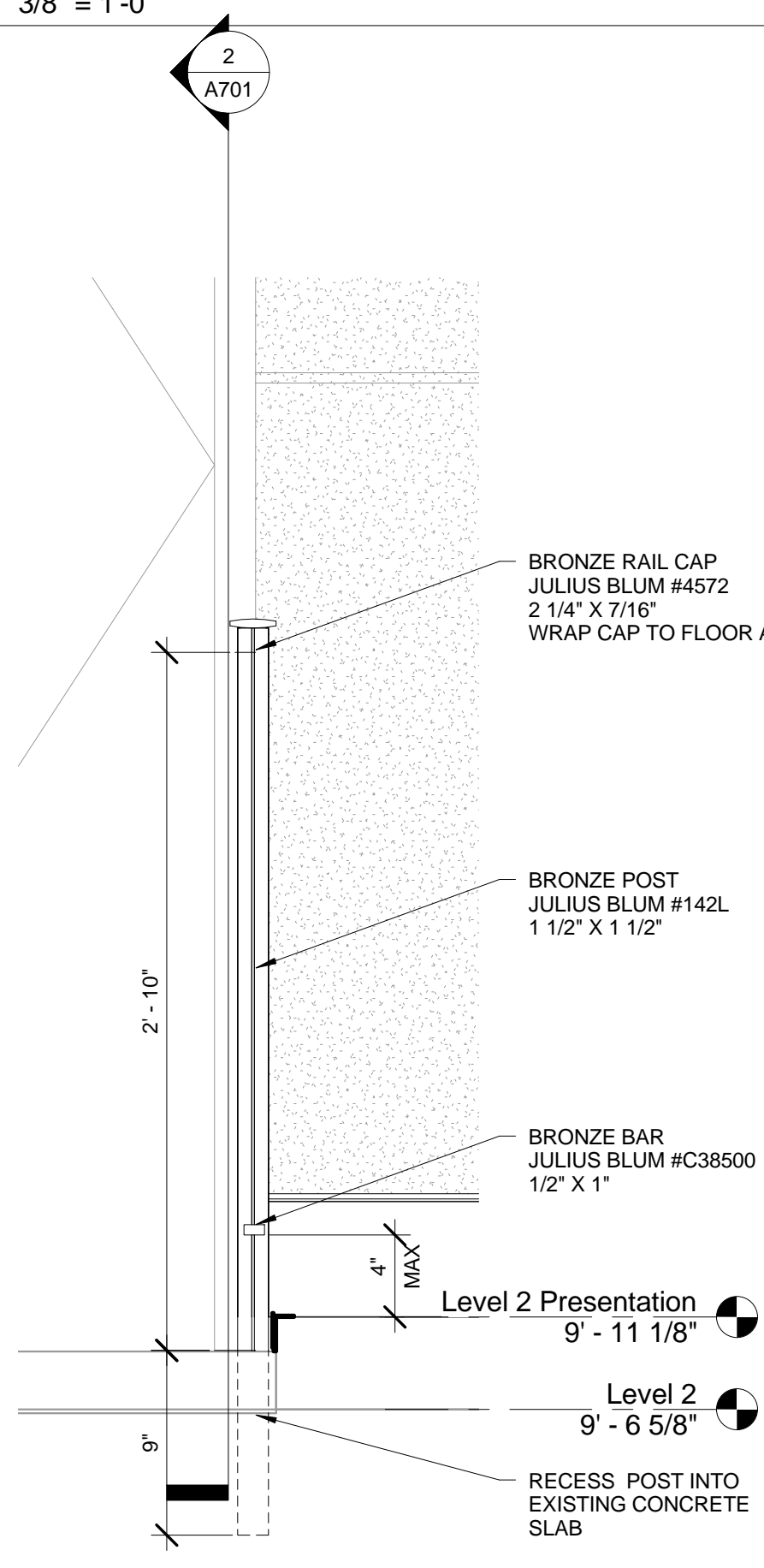
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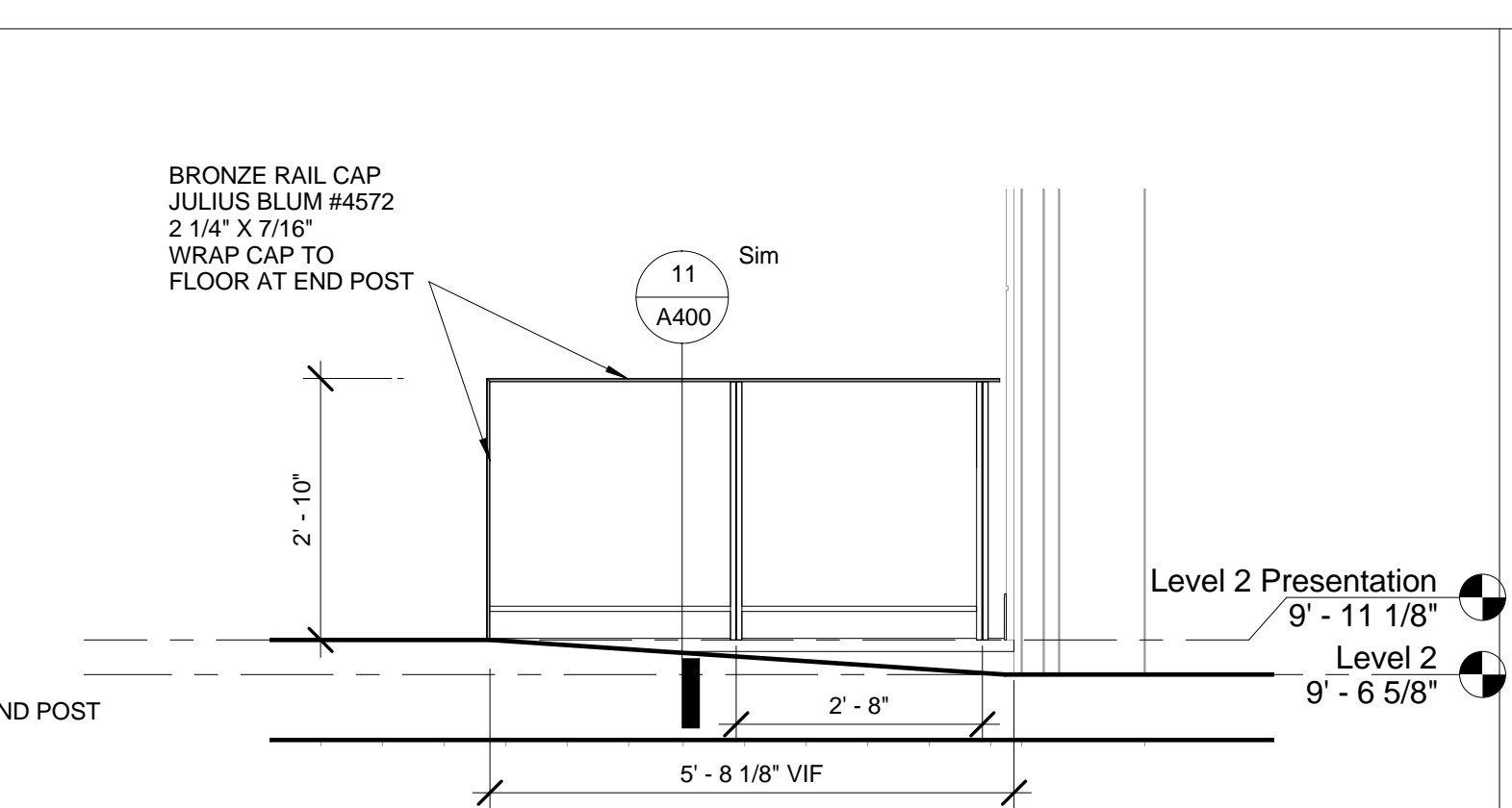
13 PRESENTATION ROOM WEST ELEVATION
3/8" = 1'-0"



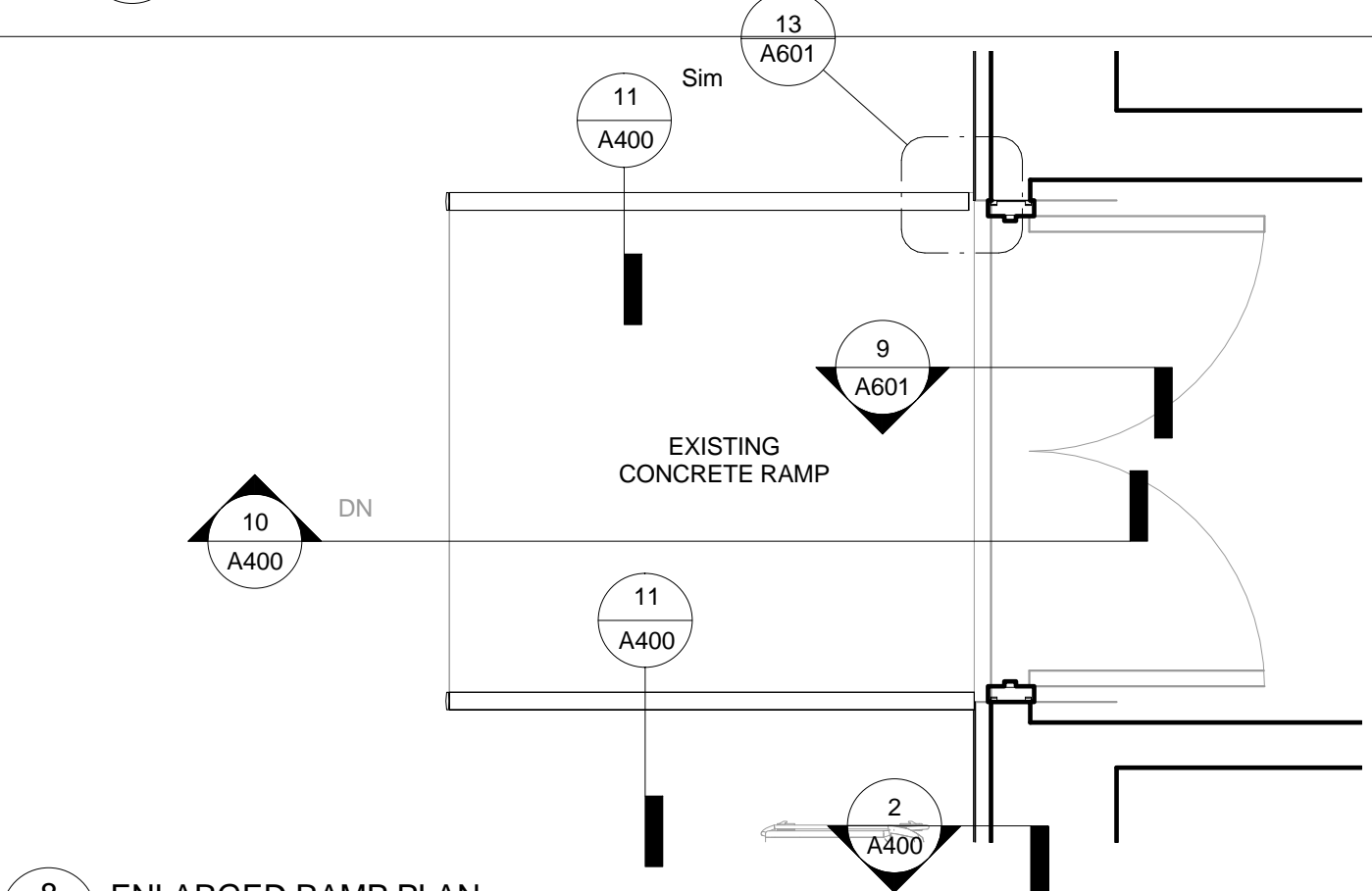
12 PRESENTATION ROOM EAST ELEVATION
3/8" = 1'-0"



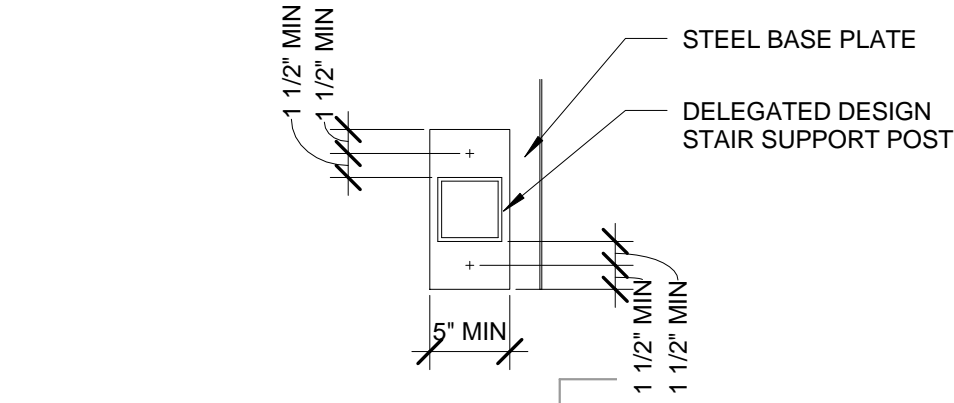
11 RAMP RAILING DETAIL
1 1/2" = 1'-0"



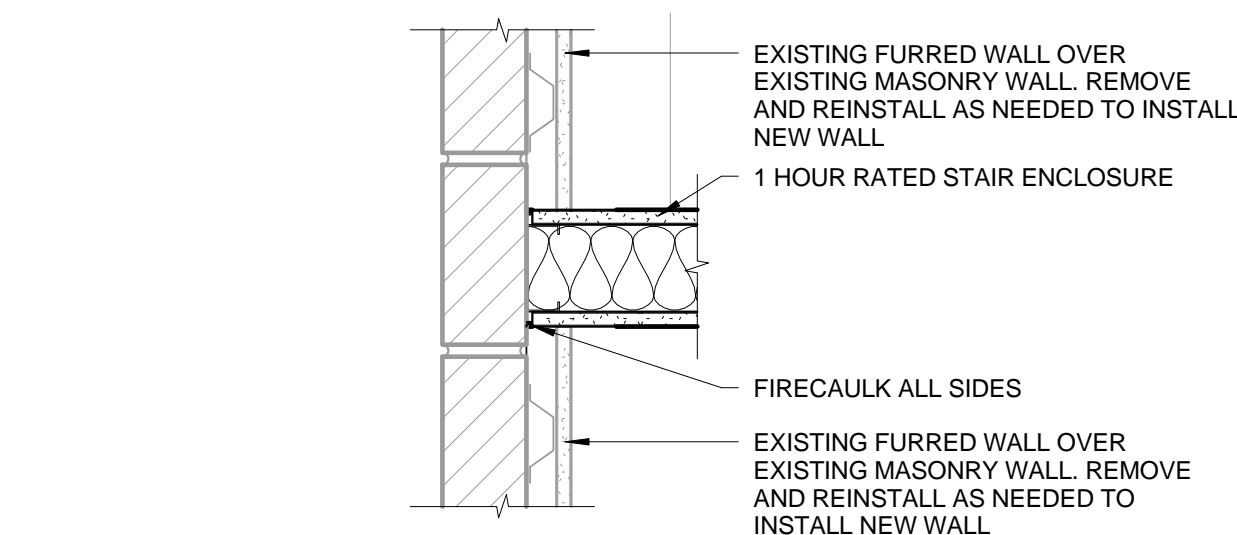
10 SECTION THROUGH EXISTING RAMP (RISE LESS THAN 6\")
1/2" = 1'-0"



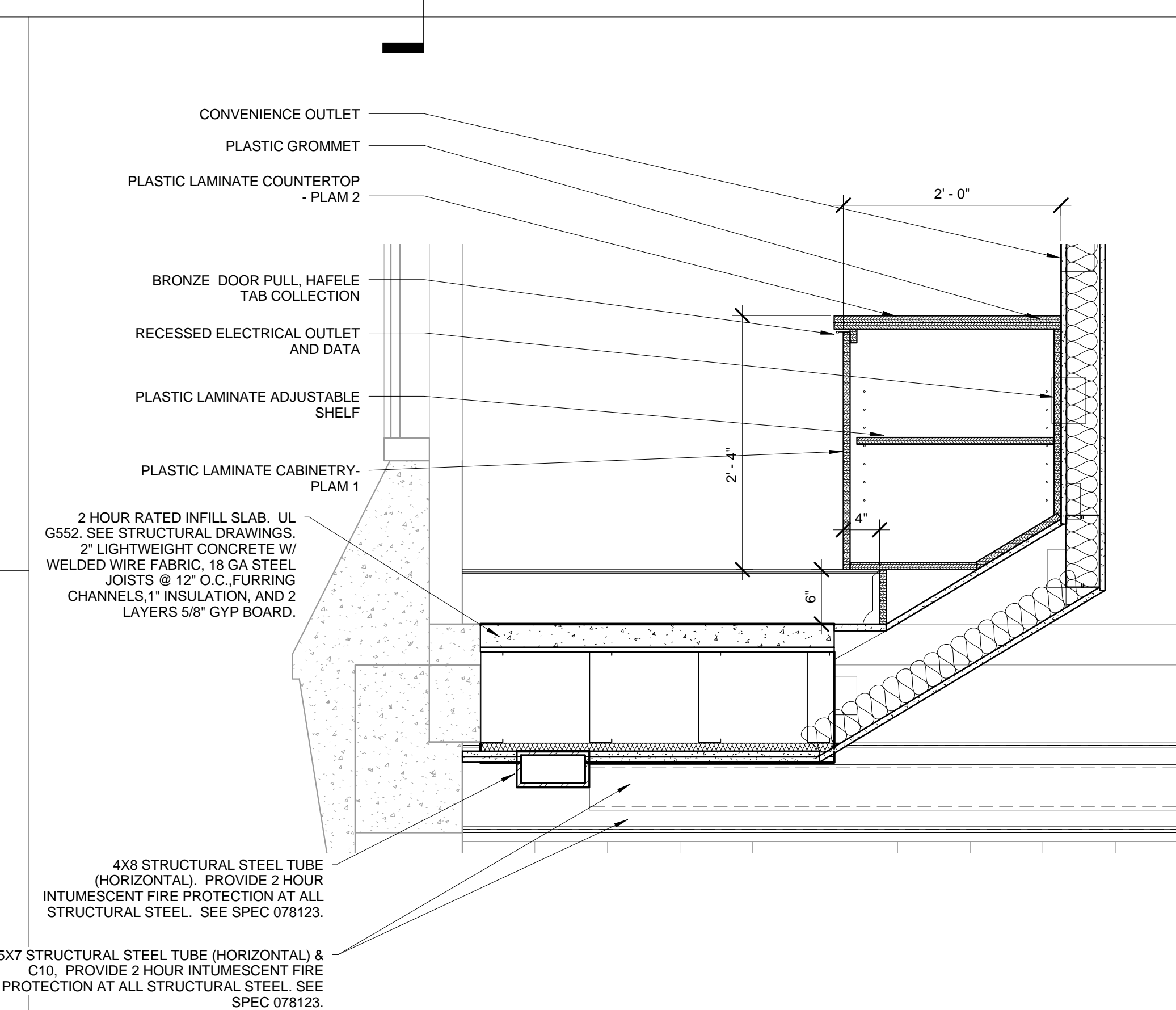
8 ENLARGED RAMP PLAN
1/2" = 1'-0"



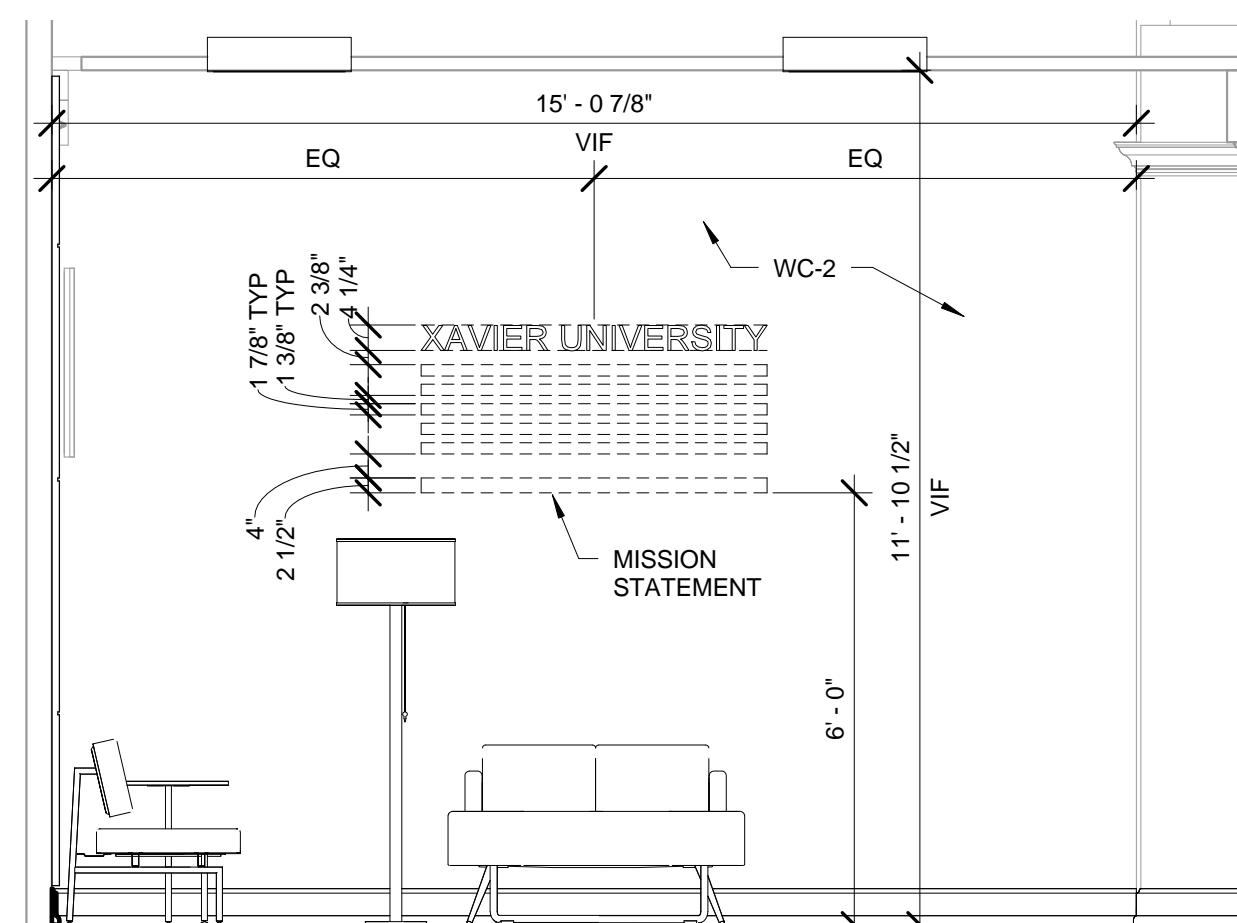
9 BASE PLATE DETAIL
1" = 1'-0"



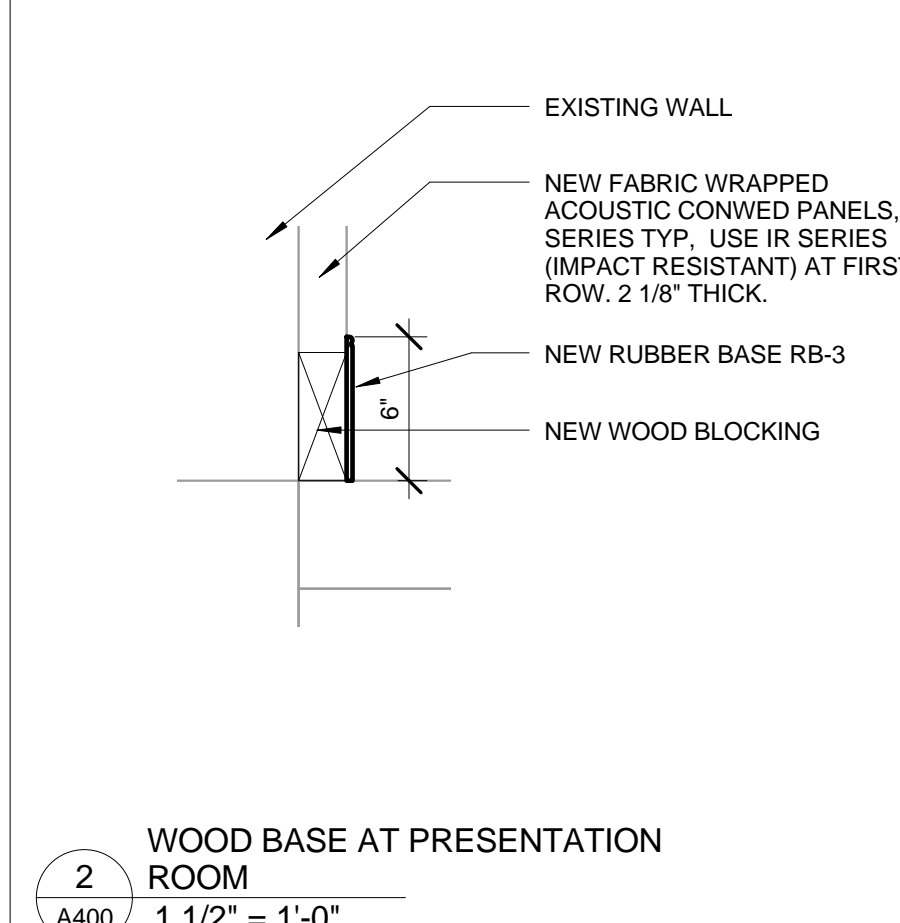
7 +RATED WALL TERMINATION DETAIL
1 1/2" = 1'-0"



6 PRESENTATION ROOM SLAB INFILL DETAIL
1" = 1'-0"



3 WAITING NORTH ELEVATION
3/8" = 1'-0"



2 WOOD BASE AT PRESENTATION ROOM
1 1/2" = 1'-0"

**Schott Hall Admissions Office
Renovation Phase II**

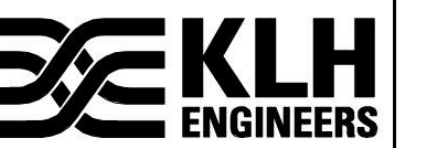
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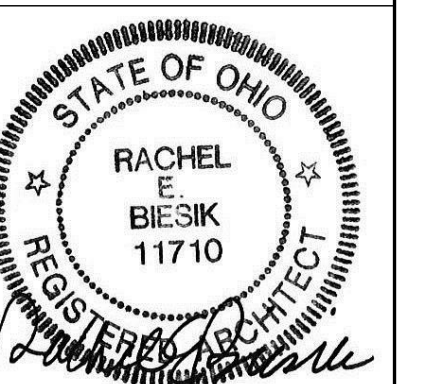
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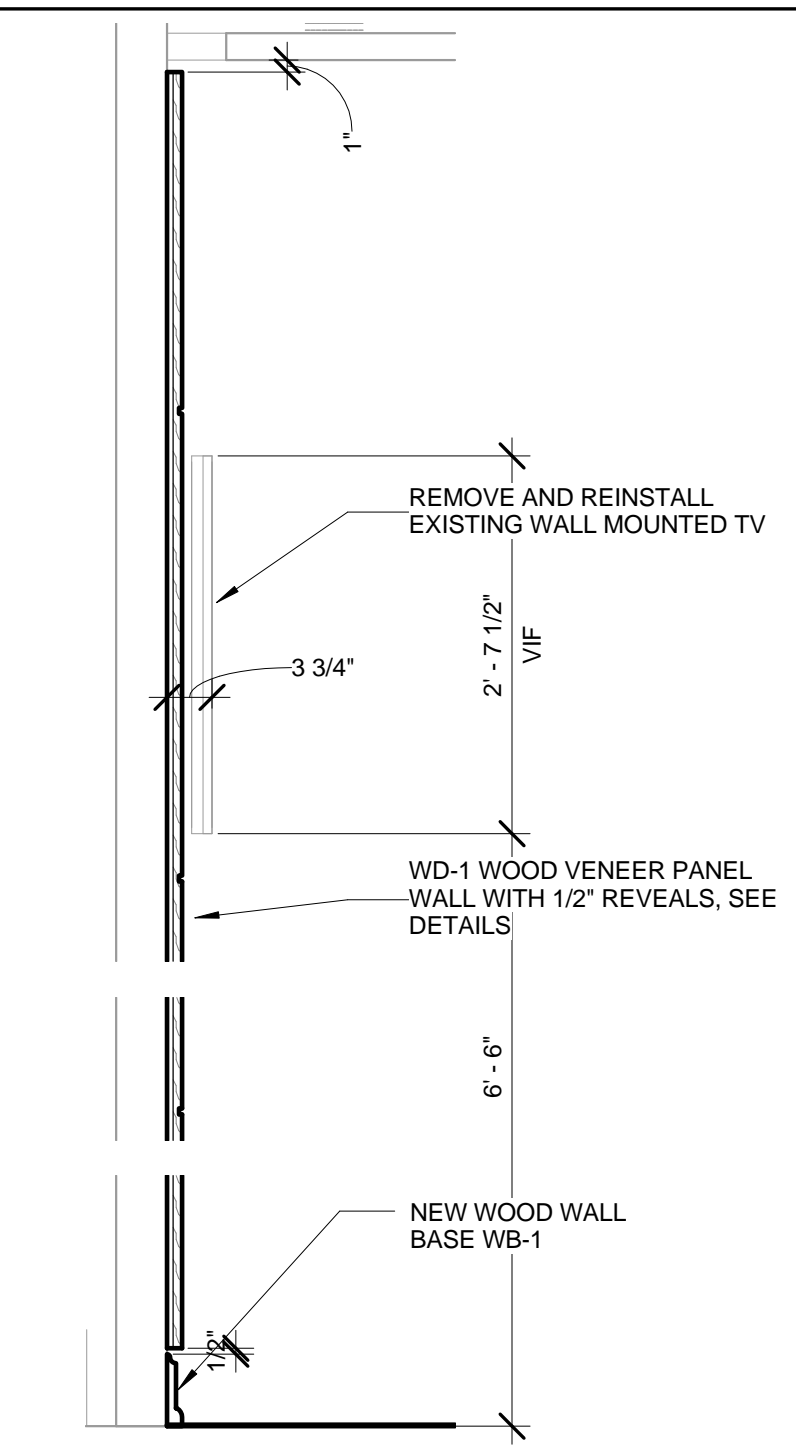
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INTERIOR ELEVATIONS & DETAILS

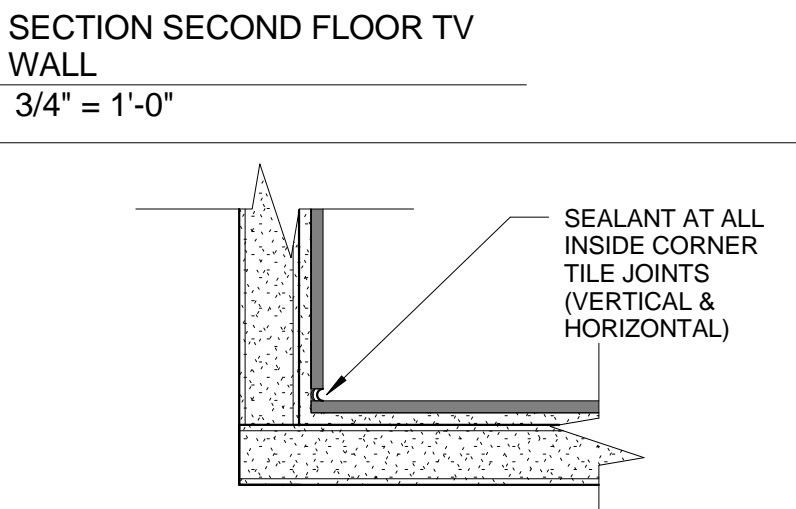
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July 14, 2017

A400

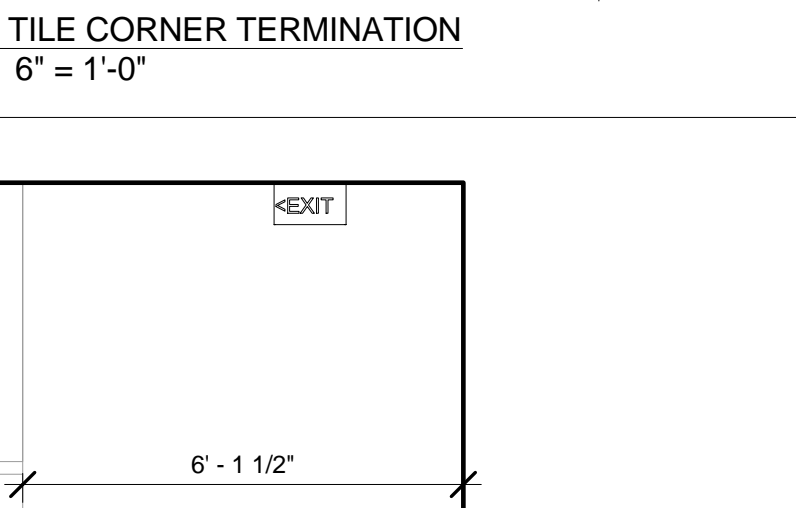
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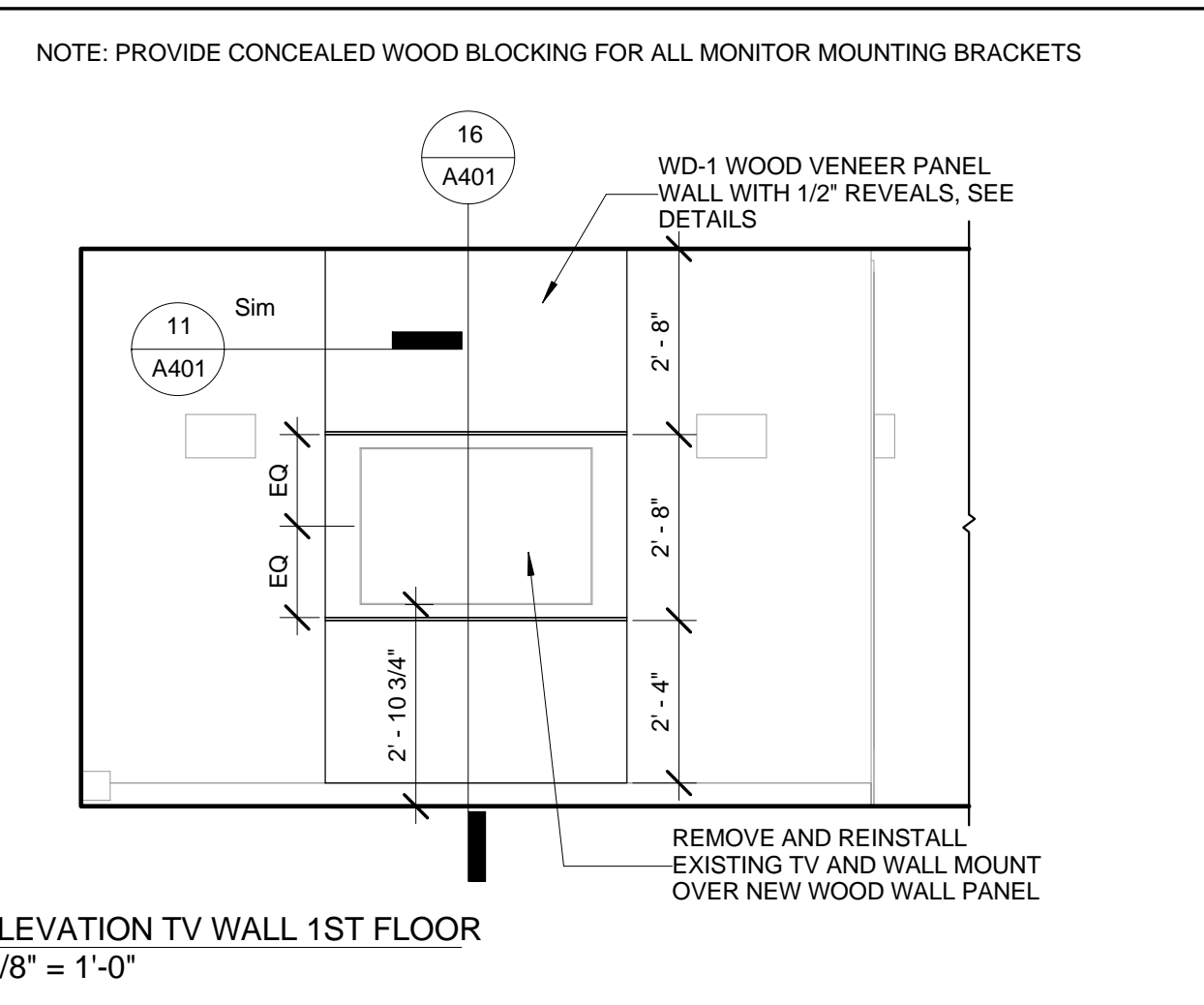
16 SECTION FIRST FLOOR TV WALL
A401 3/8" = 1'-0"



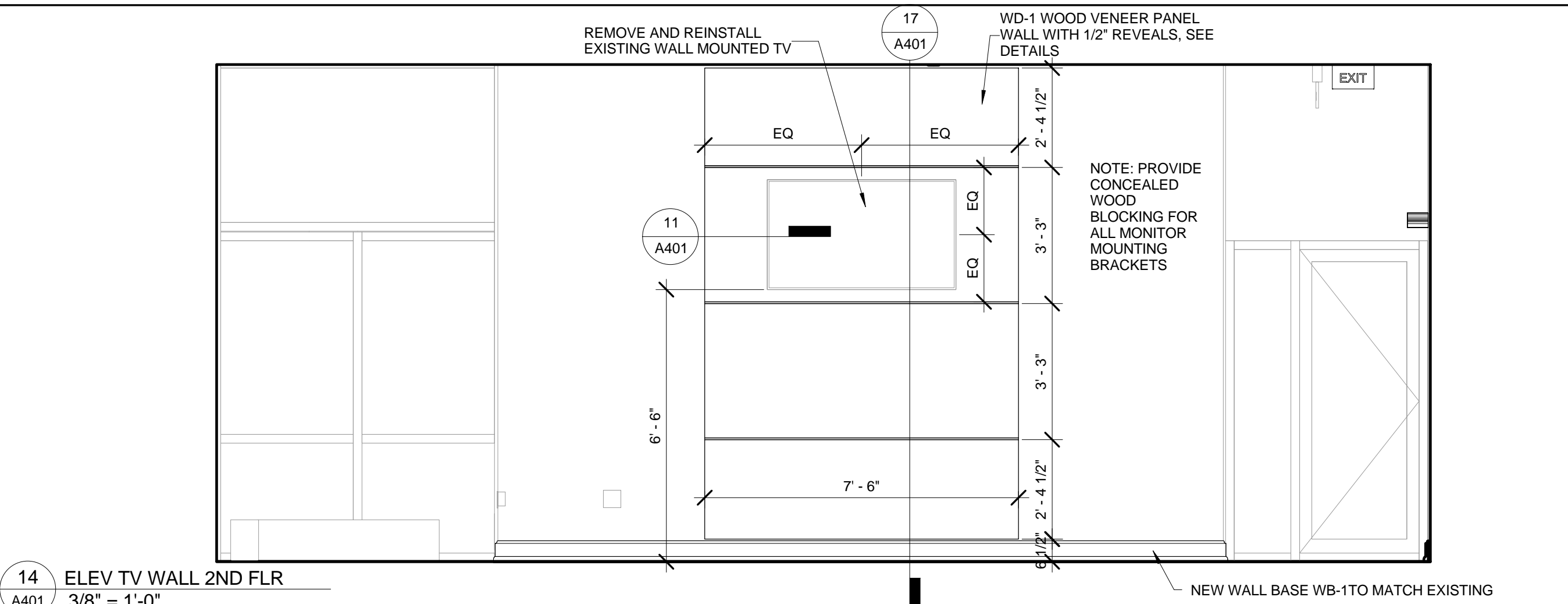
17 SECTION SECOND FLOOR TV WALL
A401 3/4" = 1'-0"



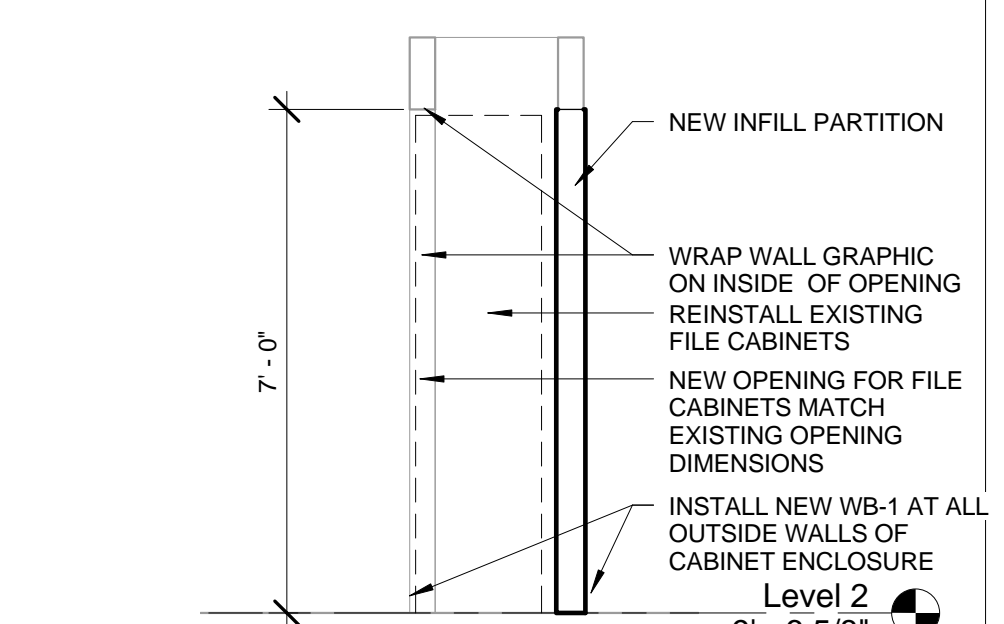
13 TILE CORNER TERMINATION
A401 6" = 1'-0"



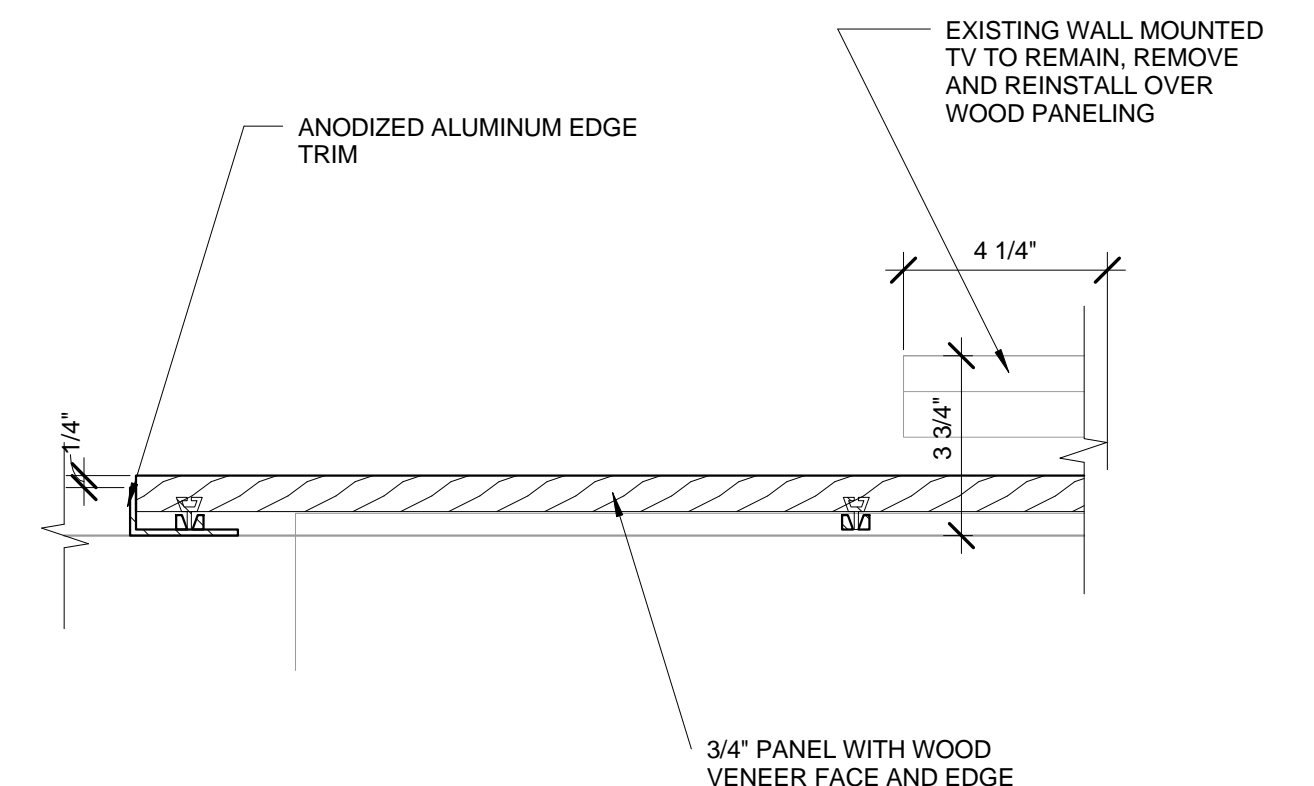
15 ELEVATION TV WALL 1ST FLOOR
A401 3/8" = 1'-0"



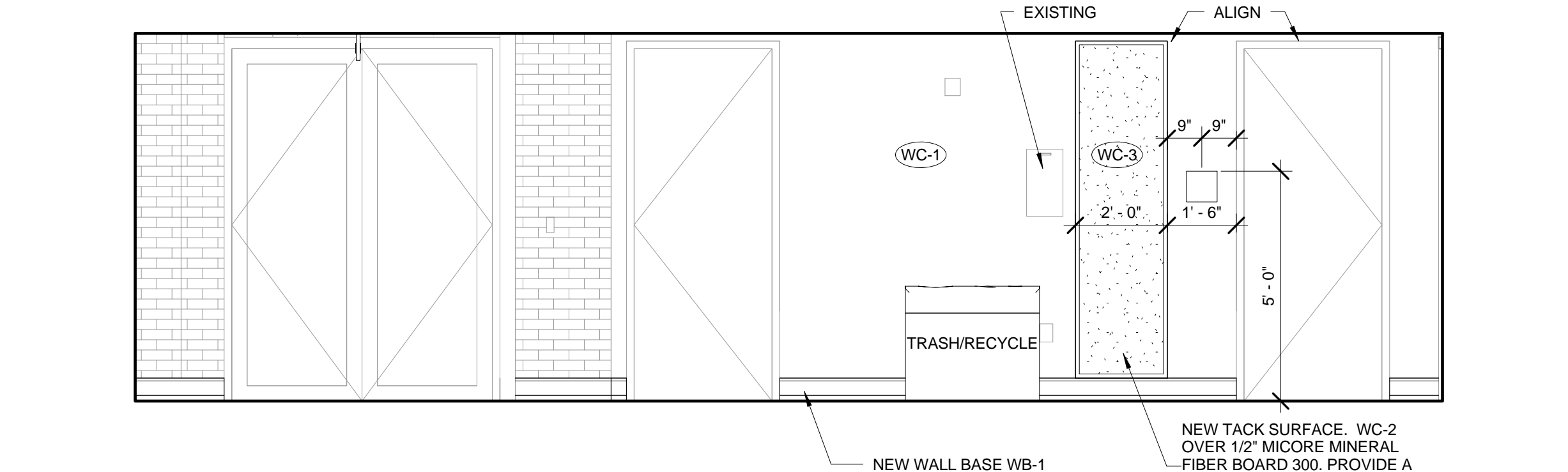
14 ELEV TV WALL 2ND FLR
A401 3/8" = 1'-0"



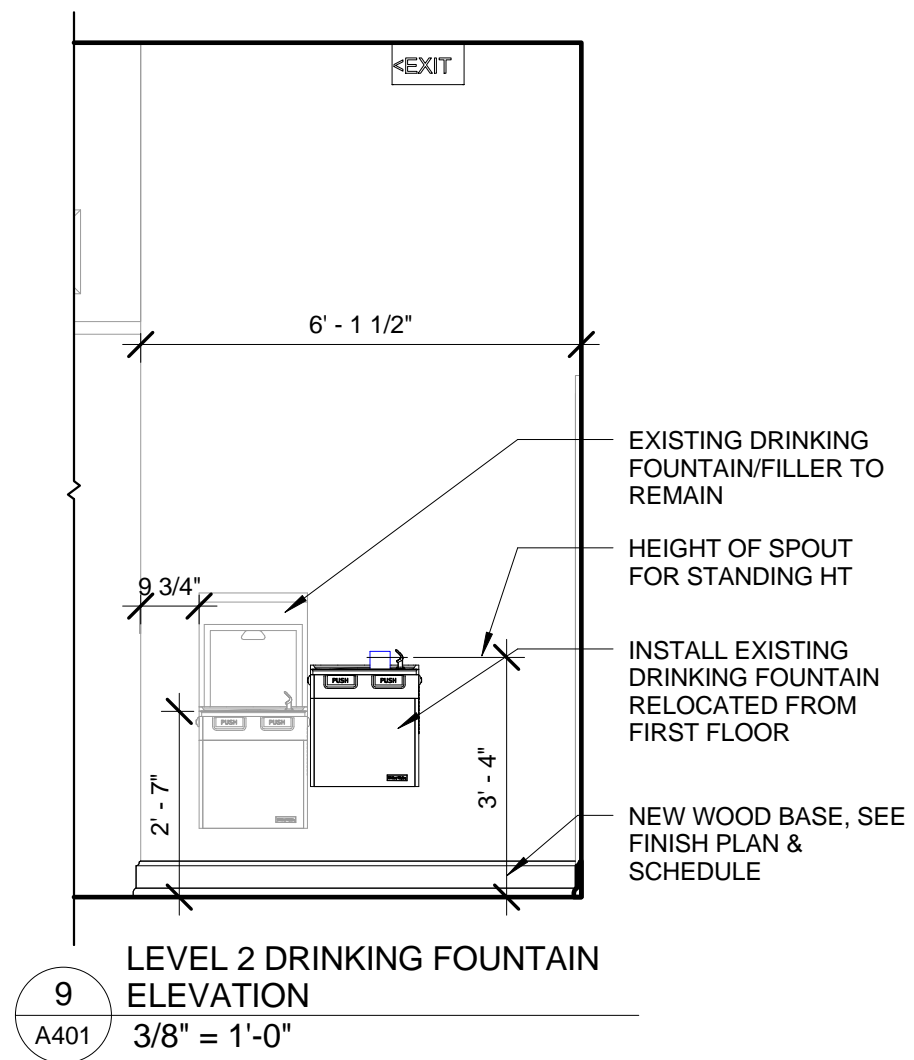
12 FILE CABINET ENCLOSURE
A401 3/8" = 1'-0"



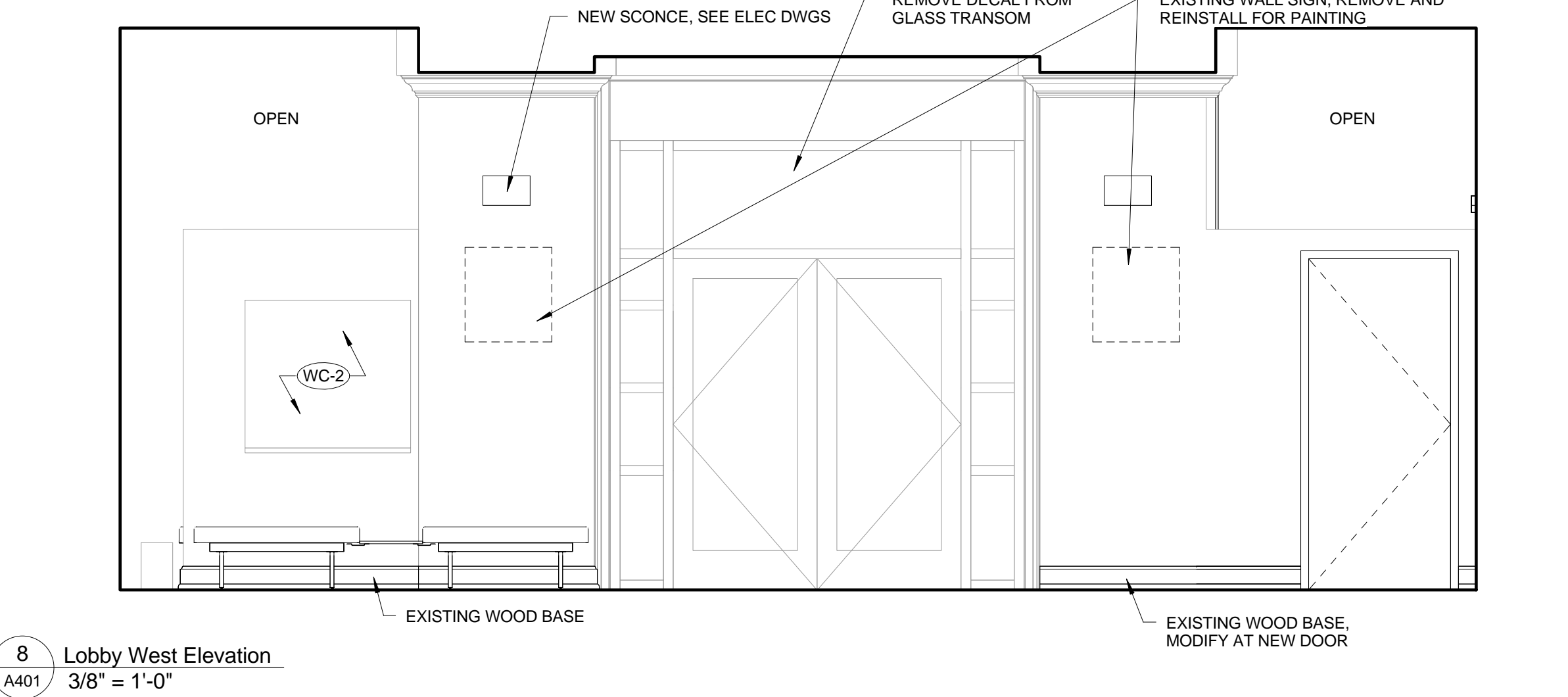
11 WOOD WALL DETAIL
A401 3" = 1'-0"



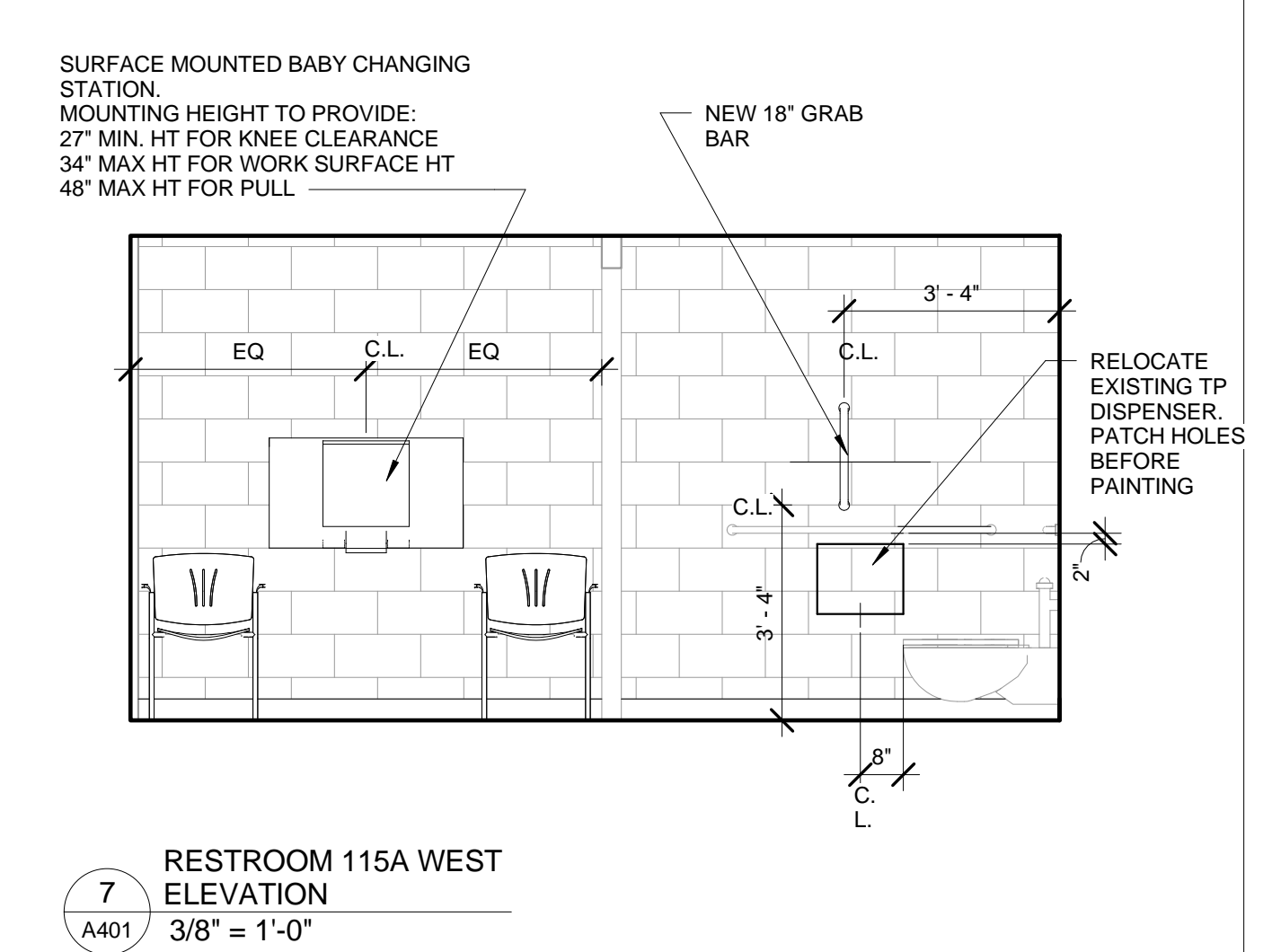
10 FIRST FLOOR ELEVATOR LOBBY
A401 3/8" = 1'-0"



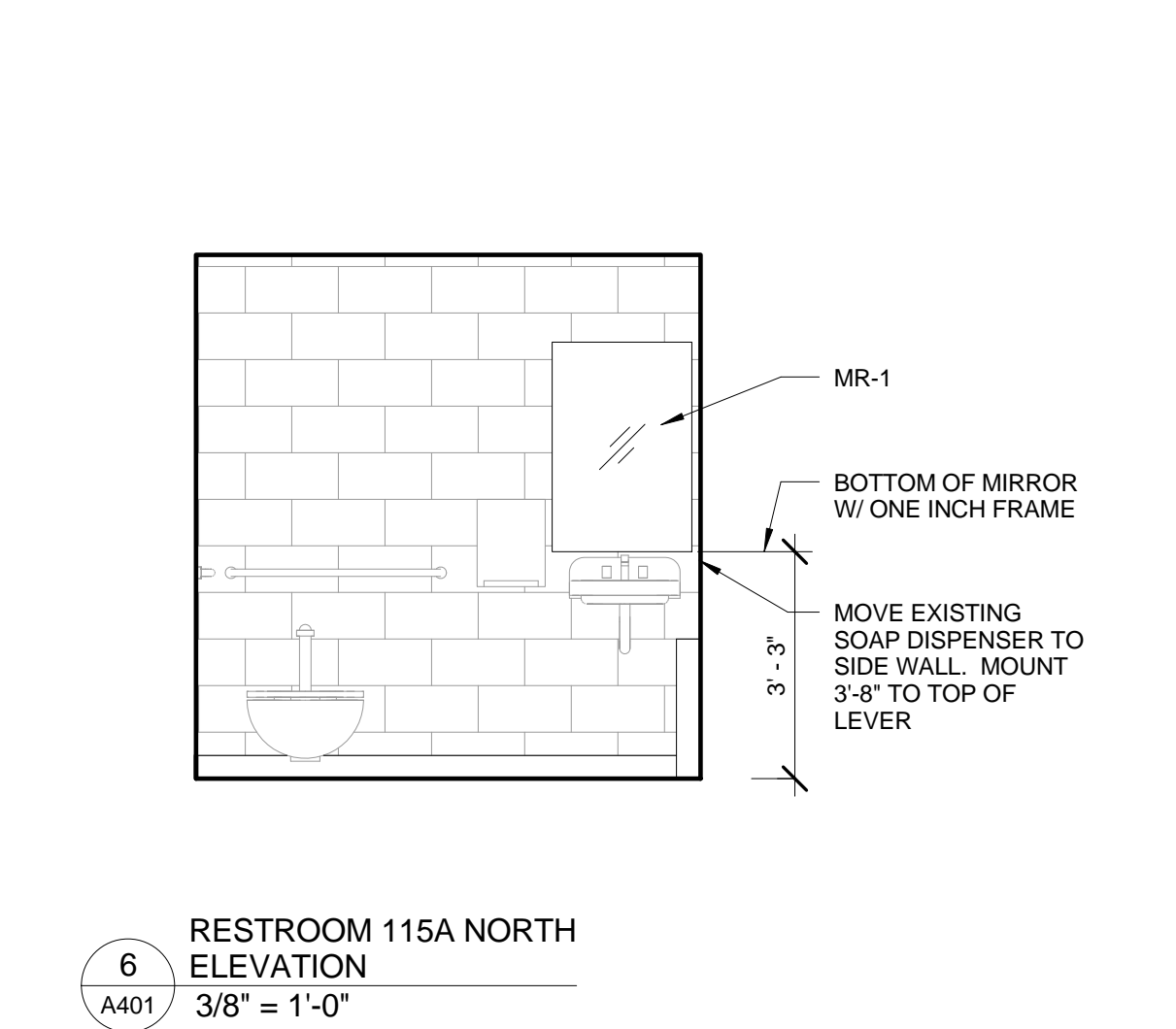
9 LEVEL 2 DRINKING FOUNTAIN ELEVATION
A401 3/8" = 1'-0"



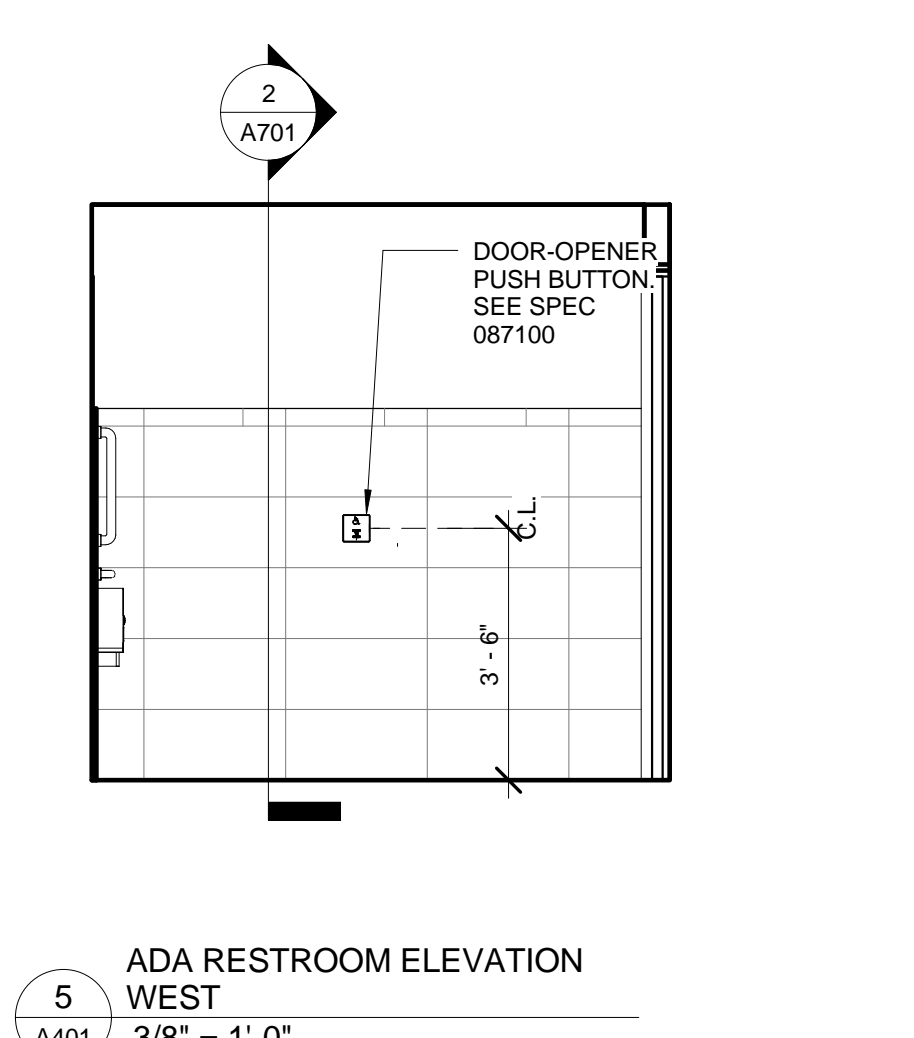
8 Lobby West Elevation
A401 3/8" = 1'-0"



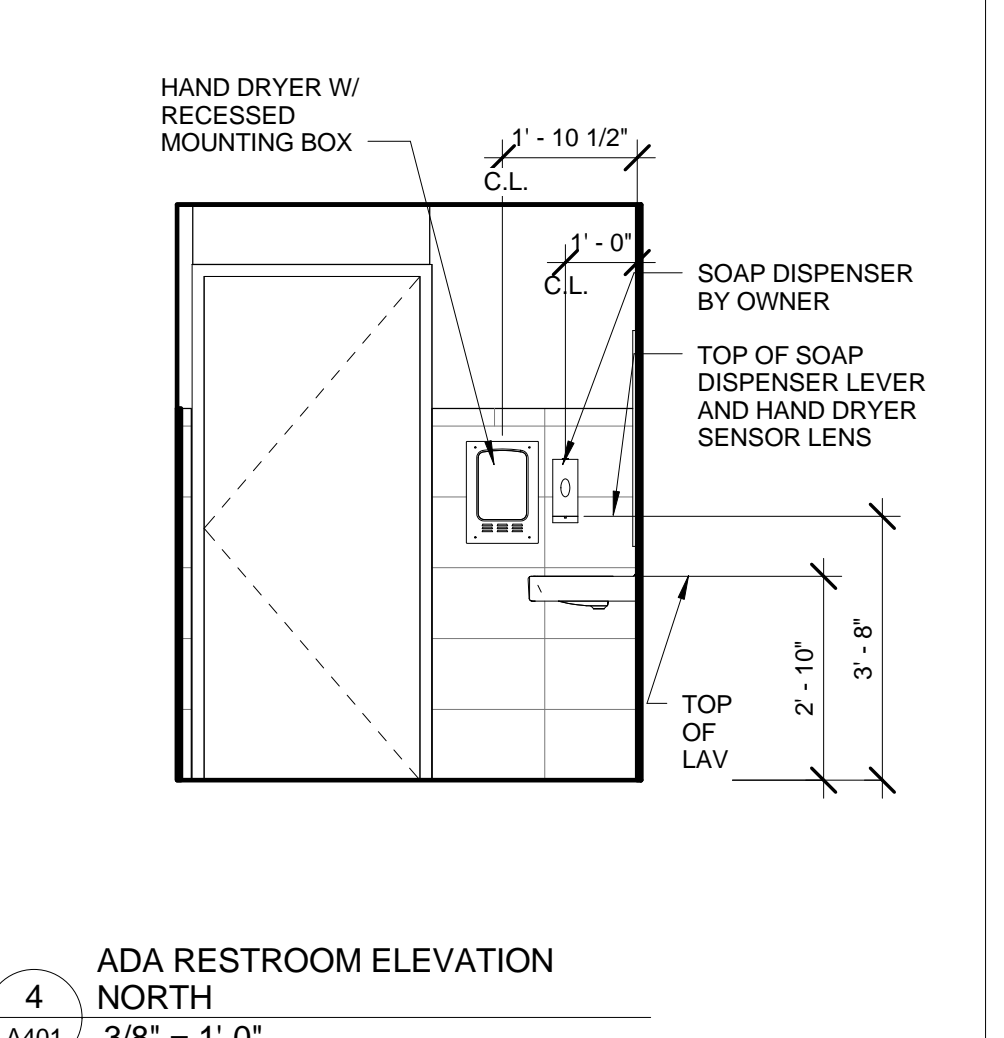
7 RESTROOM 115A WEST ELEVATION
A401 3/8" = 1'-0"



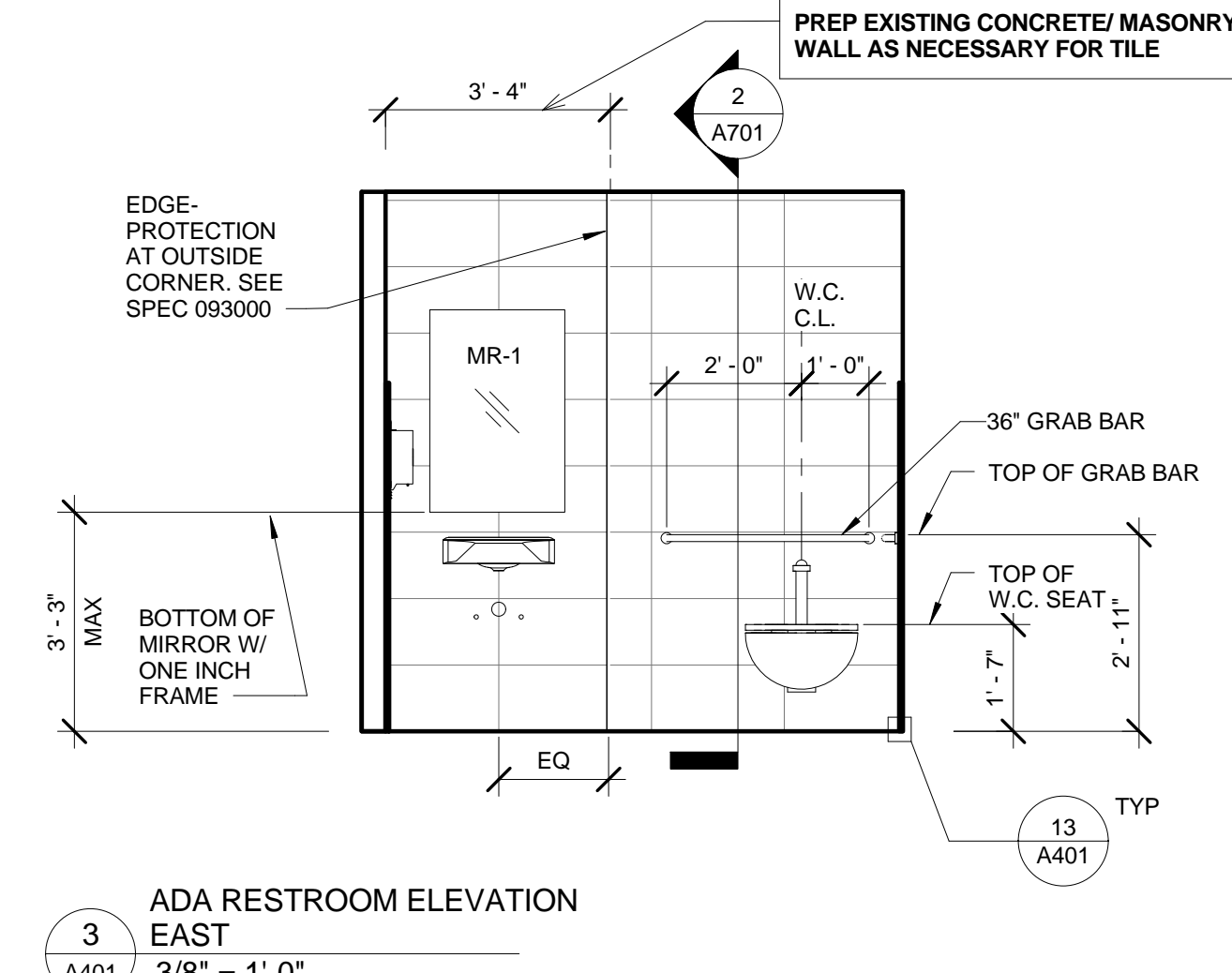
6 RESTROOM 115A NORTH ELEVATION
A401 3/8" = 1'-0"



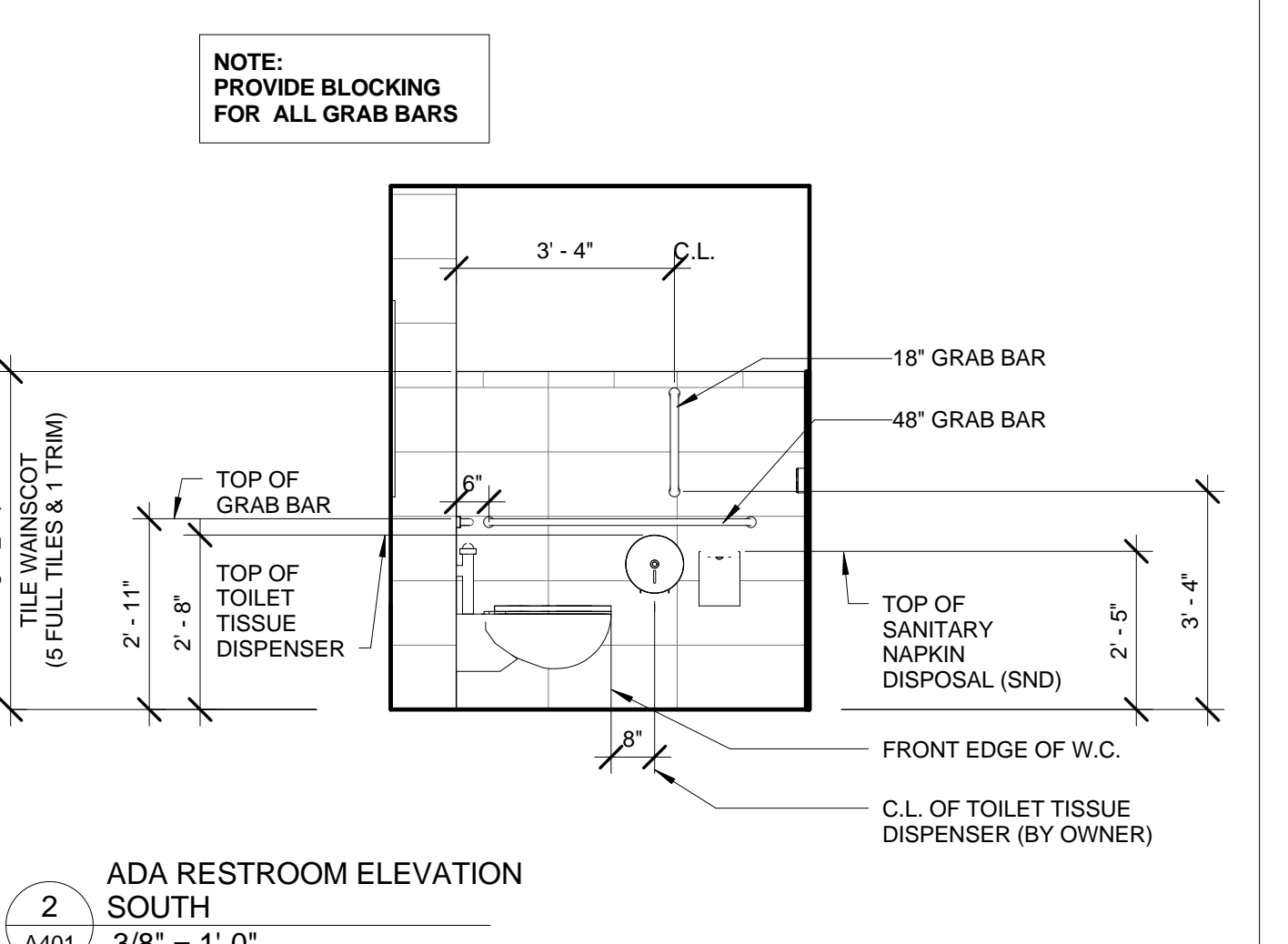
5 ADA RESTROOM ELEVATION WEST
A401 3/8" = 1'-0"



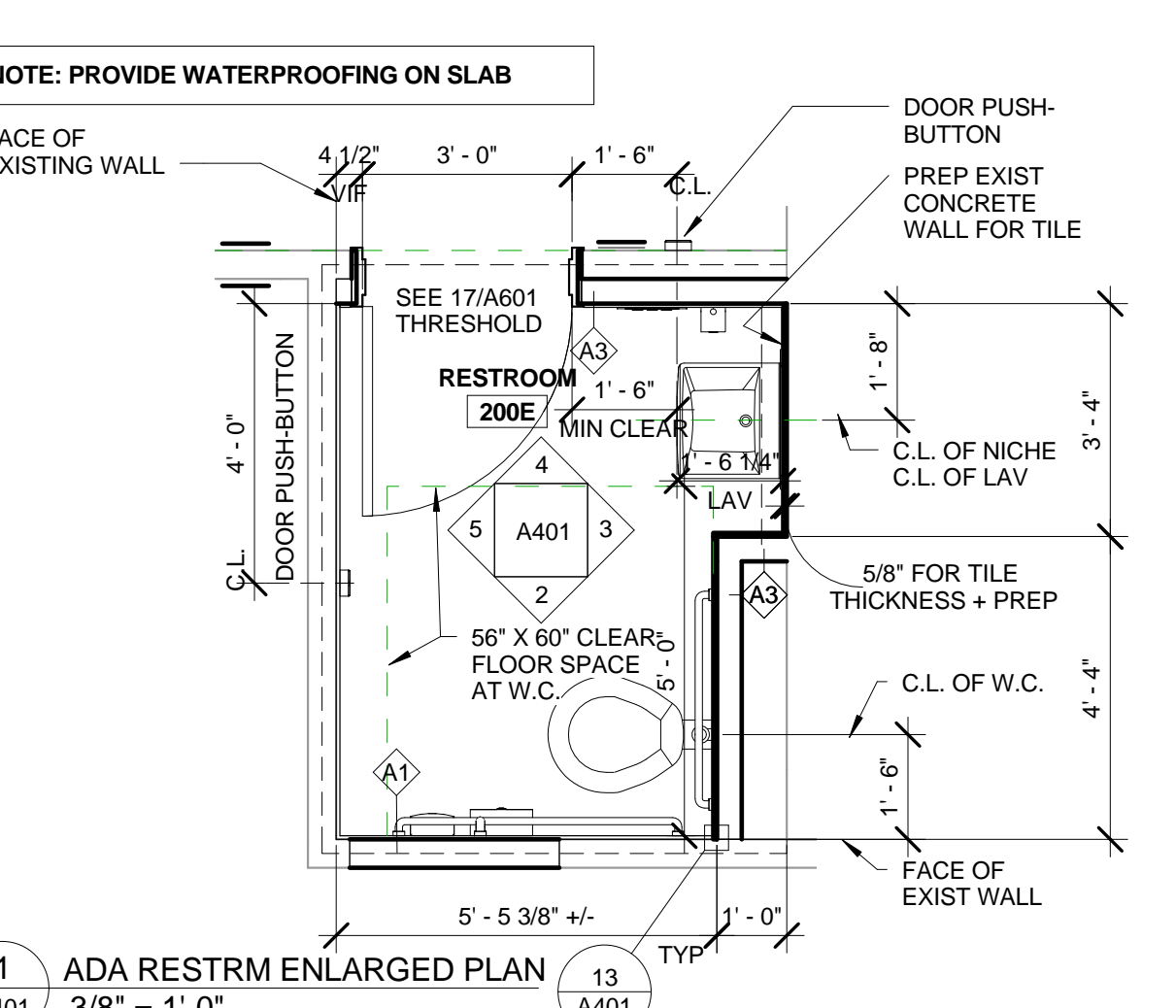
4 ADA RESTROOM ELEVATION NORTH
A401 3/8" = 1'-0"



3 ADA RESTROOM ELEVATION EAST
A401 3/8" = 1'-0"



2 ADA RESTROOM ELEVATION SOUTH
A401 3/8" = 1'-0"



1 ADA RESTROOM ENLARGED PLAN
A401 3/8" = 1'-0"

Schott Hall Admissions Office Renovation Phase II

1496 Dana Ave Cincinnati, Ohio 45207



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XAVIER UNIVERSITY
3800 VICTORY PARKWAY
CINCINNATI, OH 45207
513-745-1967

STRUCTURAL ENGINEERS
800.542.3302
schaefer-inc.com



MECHANICAL/ELECTRICAL ENGINEERS
WWW.KLHENGRS.COM
1538 ALEXANDRIA PIKE, SUITE 111 FT. THOMAS, KENTUCKY
41076.800.584.9783
859.442.8995
859.442.2688 FAX
LEXINGTON, KENTUCKY
COLUMBUS, OHIO
NEW YORK, NEW YORK

No.	Description	Date
1	BID & PERMIT	07/14/17



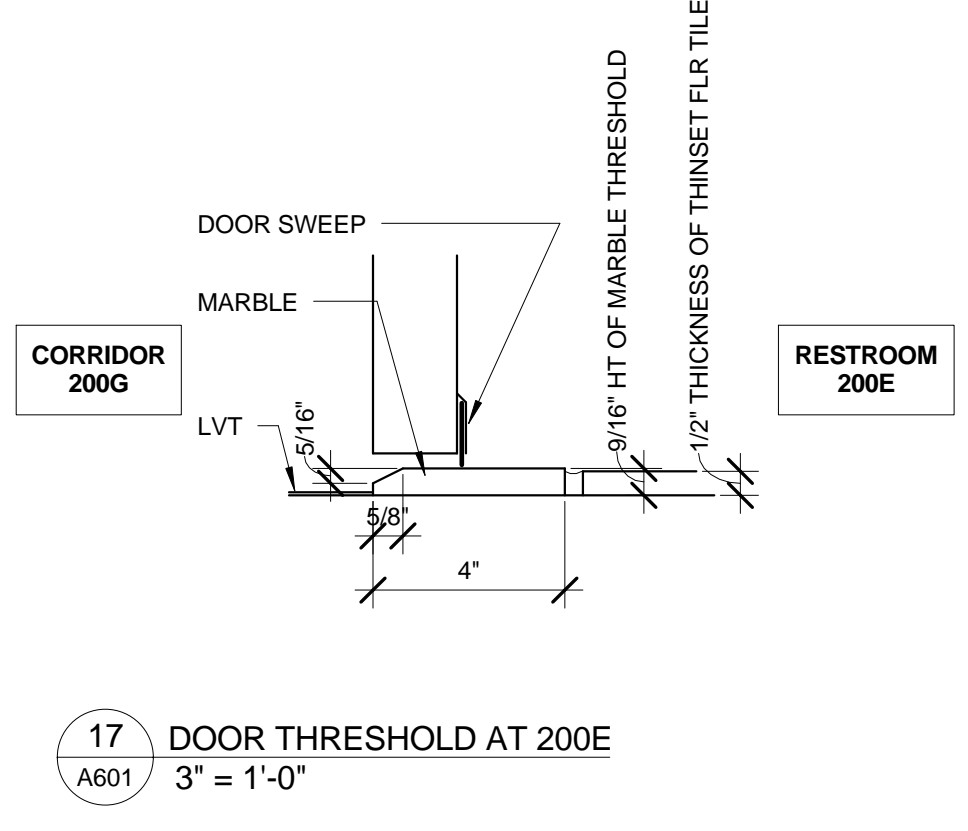
RACHEL E. BIESIK, LICENSE #11710
EXPIRATION DATE: 12/31/2017
DRAWN BY: EC
CHECKED BY: RB

INTERIOR ELEVATIONS & DETAILS

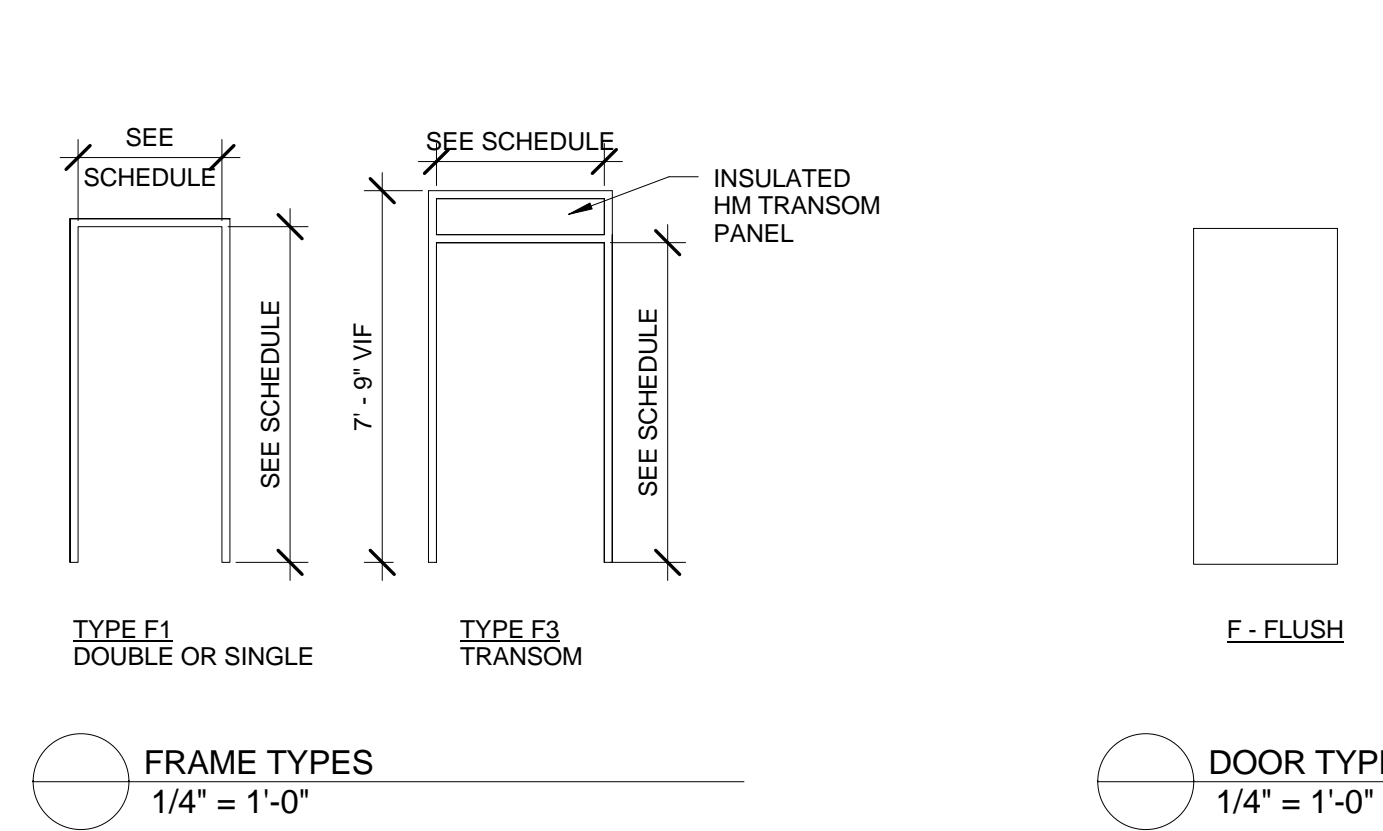
DATE
July 14, 2017

A401

7/25/2017 12:07:34 PM C:\Users\campbellr\Documents\Revit\Schott Hall 2017 Admissions Office Renovation Phase 2\2015\CENTRAL CAMPBELL.rvt



17 DOOR THRESHOLD AT 200E
3" = 1'-0"



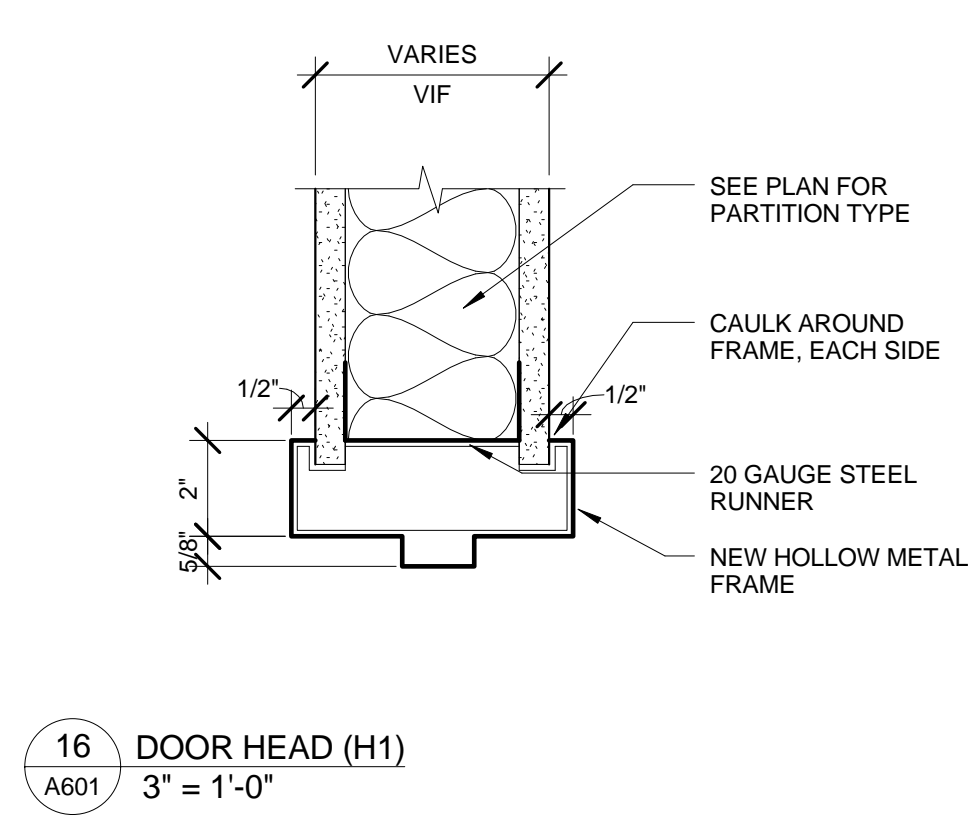
14 DOOR HEAD (H3)
1 1/2" = 1'-0"

13 WOOD TRIM JAMB
1 1/2" = 1'-0"

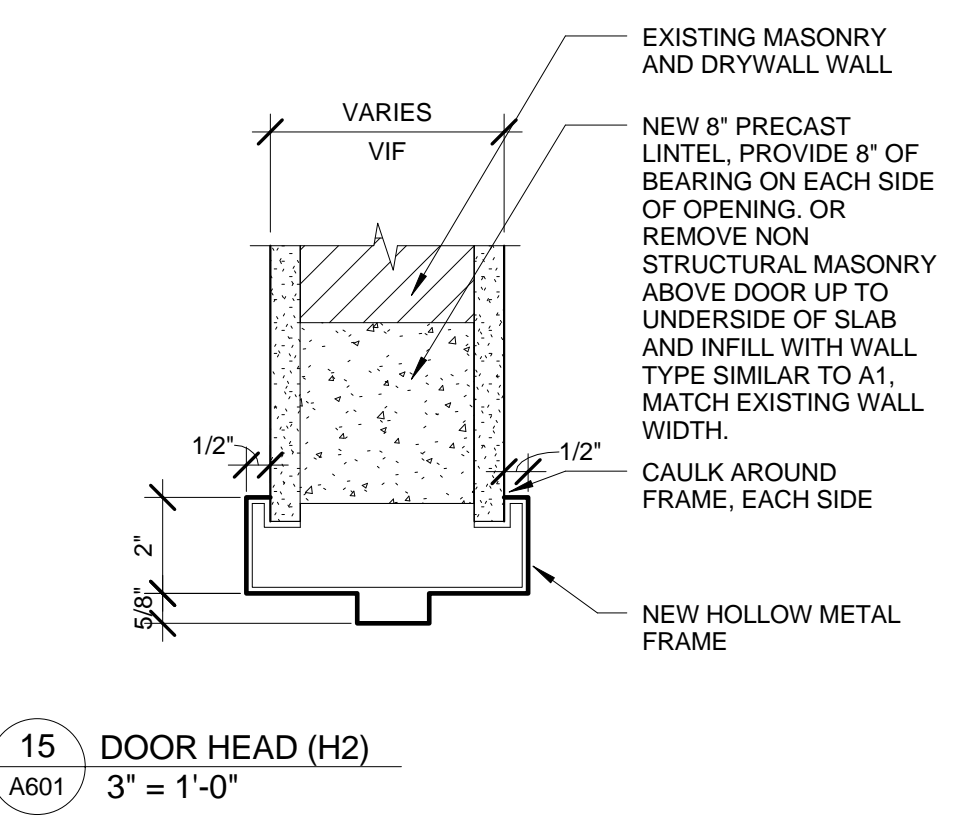
12 WOOD TRIM AT DOOR
1 1/2" = 1'-0"

DOOR SCHEDULE											
Door Number	DOOR			FRAME				Throat	Hardware Set	FIRE RATING	Comments
	Width	Height	Door Type	Thickness	Frame Type	Head Detail	Jamb Detail				
103	3'-0"	7'-8"	F	1 3/4"	F1	H2	J2	5 7/8" VIF	01		MANUF: VT, FINISH: RED OAK CH15 CHOCOLATE VENEER, PLAIN SLICED, BOOKMATCHED & BALANCED
105	3'-0"	7'-8"		1 3/4"				5 7/8" VIF			REINSTALL EXISTING DOUBLE CLOSET DOOR AND FRAME FROM ROOM 104
200E	3'-0"	7'-0"	F	1 3/4"	F1	H1	J1	9 1/8" VIF	03		MANUF: GRAHAM, FINISH: CHERRY 325 VENEER, PLAIN SLICED, BOOKMATCHED & BALANCED
200F	3'-0"	7'-0"	F	1 3/4"	F1	H1	J1	4 7/8" VIF	02		MANUF: GRAHAM, FINISH: CHERRY 325 VENEER, PLAIN SLICED, BOOKMATCHED & BALANCED
200L	3'-0"	7'-0"	F	1 3/4"	F1	H1	J1	4 7/8" VIF	04		MANUF: GRAHAM, FINISH: CHERRY 325 VENEER, PLAIN SLICED, BOOKMATCHED & BALANCED
S104	3'-0"	7'-8"	F	1 3/4"	F1	H1	J1	4 7/8" VIF	09	1 HR	MANUF: VT, FINISH: RED OAK CH15 CHOCOLATE VENEER, PLAIN SLICED, BOOKMATCHED & BALANCED
S104A	3'-6"	6'-8"	F	1 3/4"	F3	H3	J3	N/A	08		PAINTED GALVANIZED INSULATED EXTERIOR DOOR
S204	3'-0"	7'-0"	F	1 3/4"	F1	H1	J1	7 1/4" VIF	09	1 HR	MANUF: GRAHAM, FINISH: CHERRY 325 VENEER, PLAIN SLICED, BOOKMATCHED & BALANCED

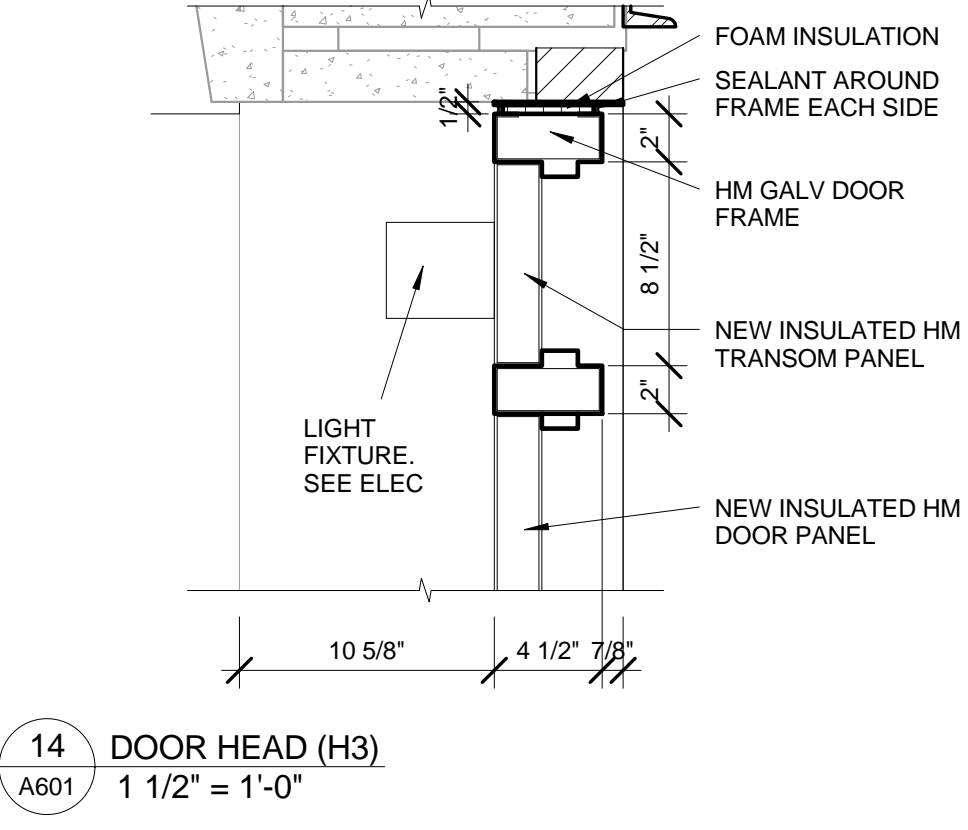
NOTE: REPLACE ALL EXISTING WALL/FLOOR STOPS ON 1ST AND 2ND FLRS.
1ST FLR = QUANTITY OF 24 WALL STOPS
2ND FLR = QUANTITY OF 23 WALL STOPS + 2 FLOOR STOPS



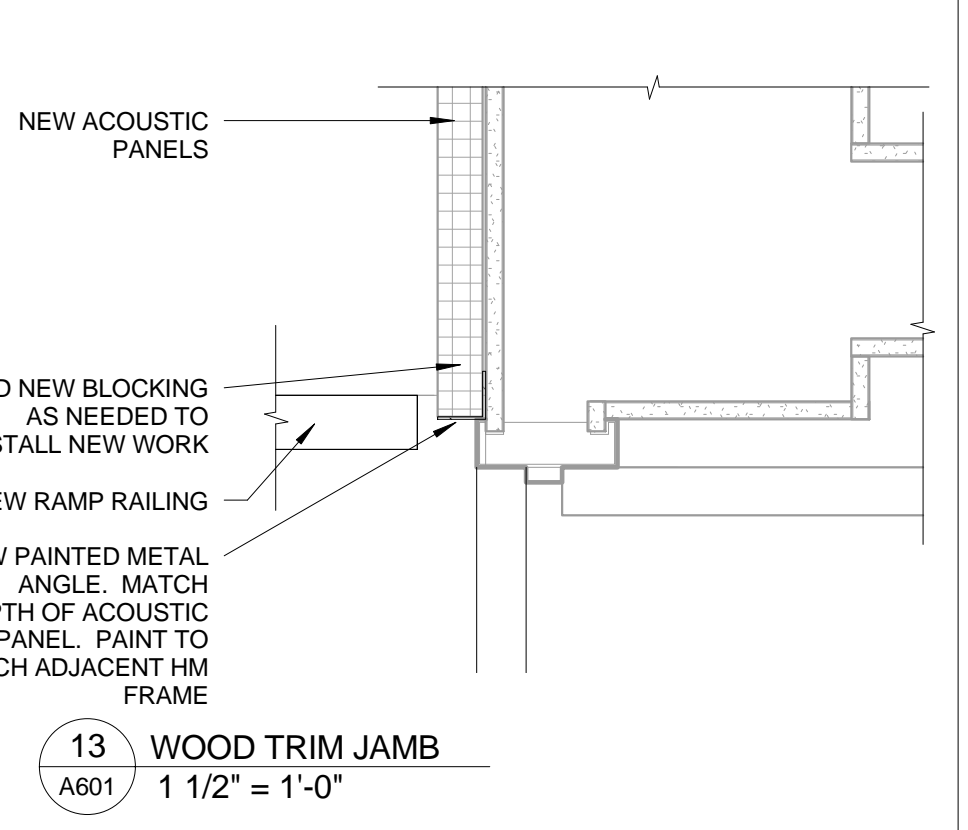
16 DOOR HEAD (H1)
3" = 1'-0"



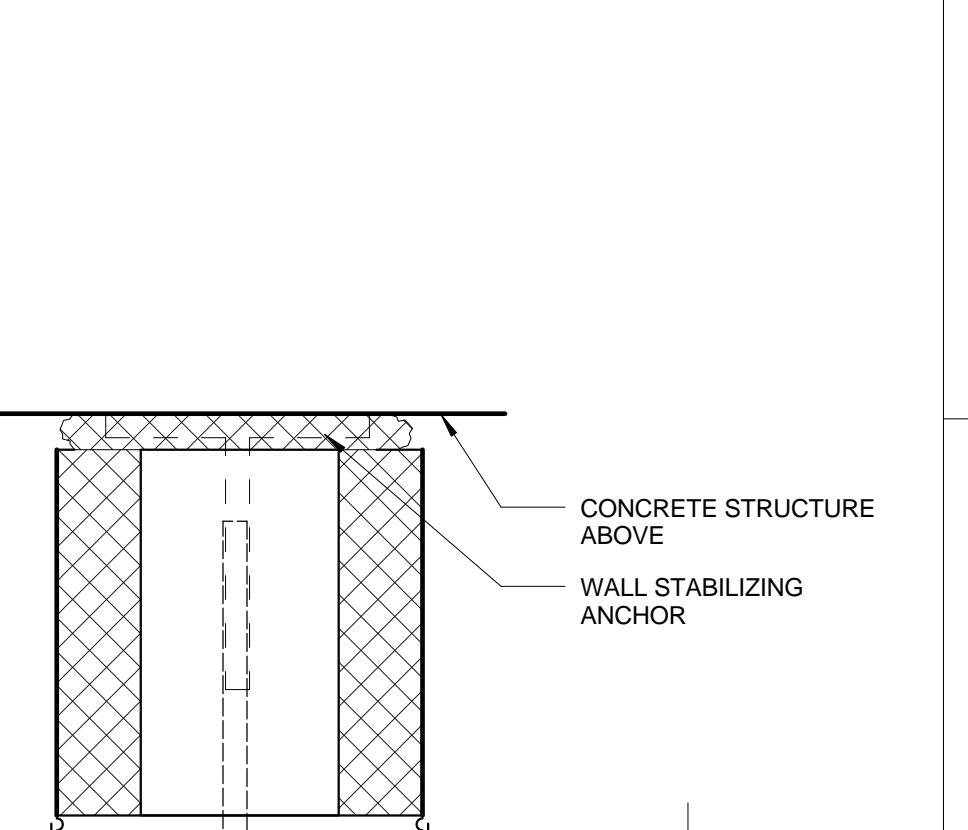
15 DOOR HEAD (H2)
3" = 1'-0"



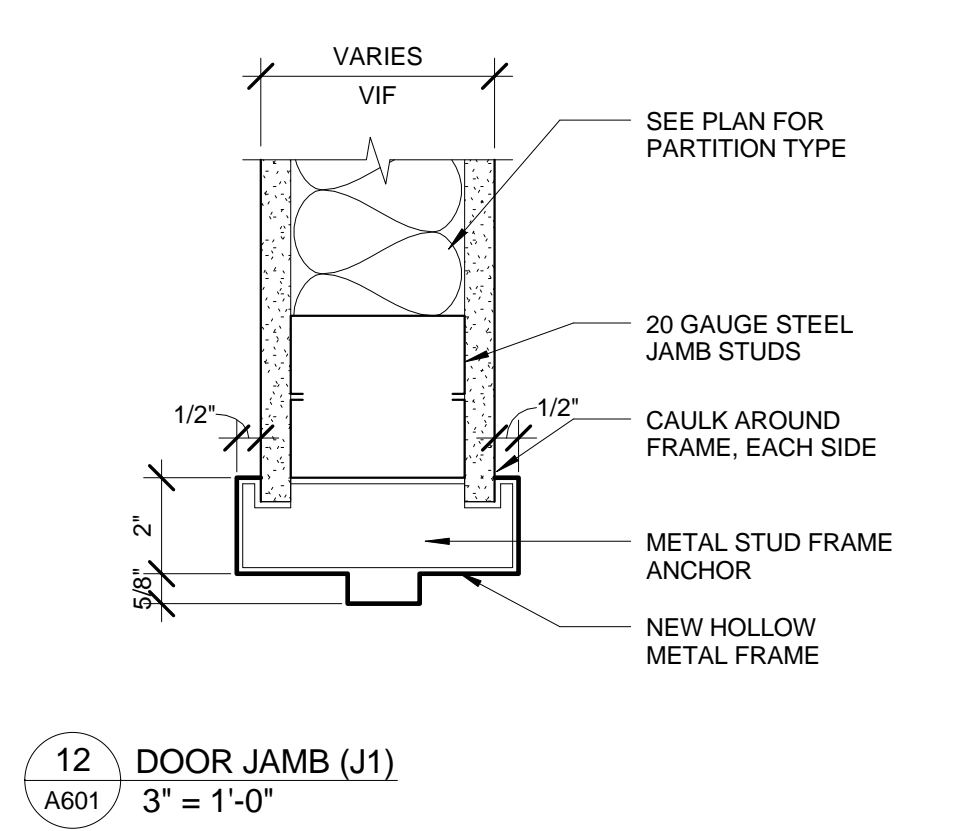
14 DOOR HEAD (H3)
1 1/2" = 1'-0"



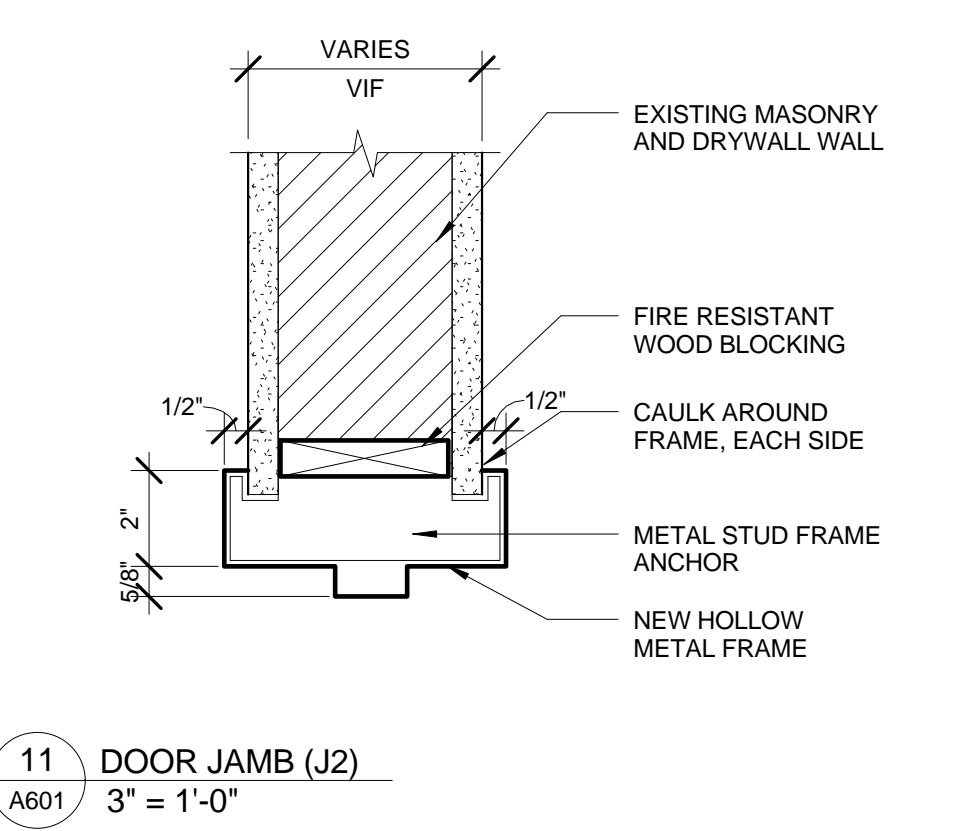
13 WOOD TRIM JAMB
1 1/2" = 1'-0"



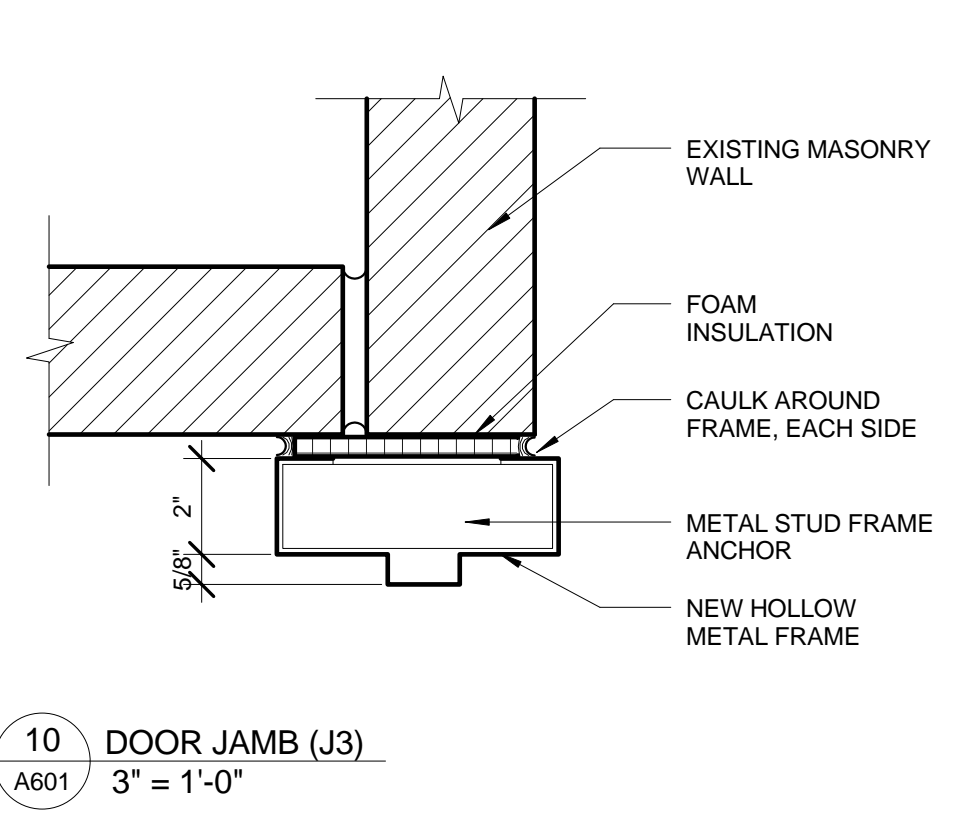
12 WOOD TRIM AT DOOR
1 1/2" = 1'-0"



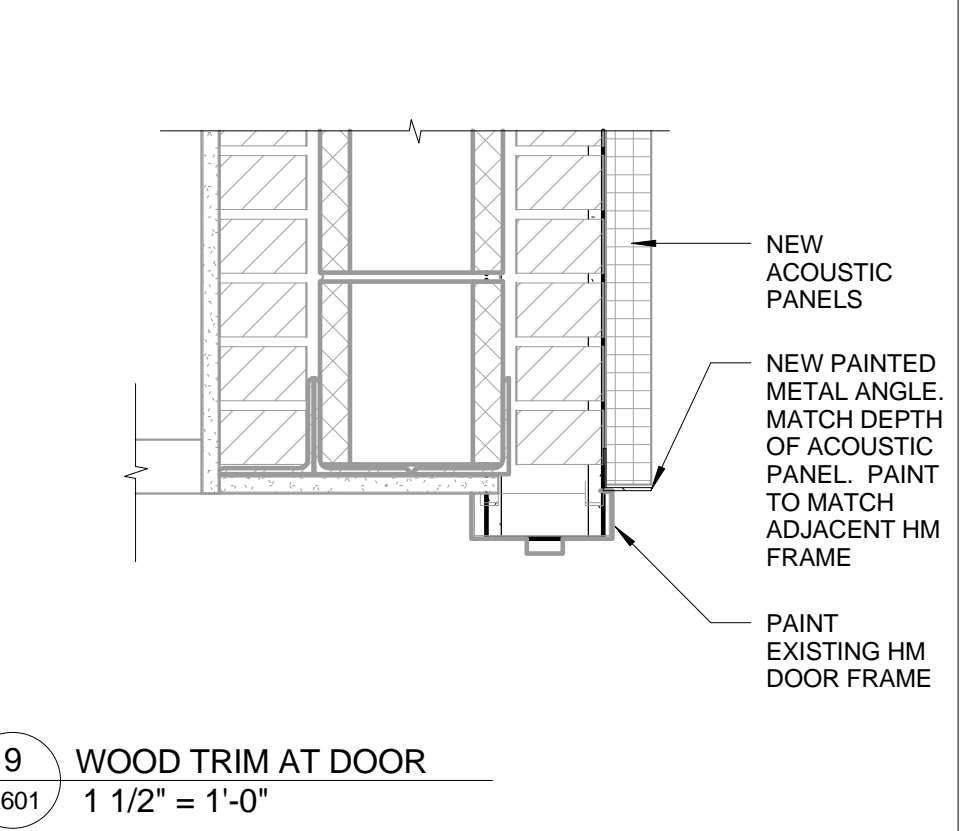
12 DOOR JAMB (J1)
3" = 1'-0"



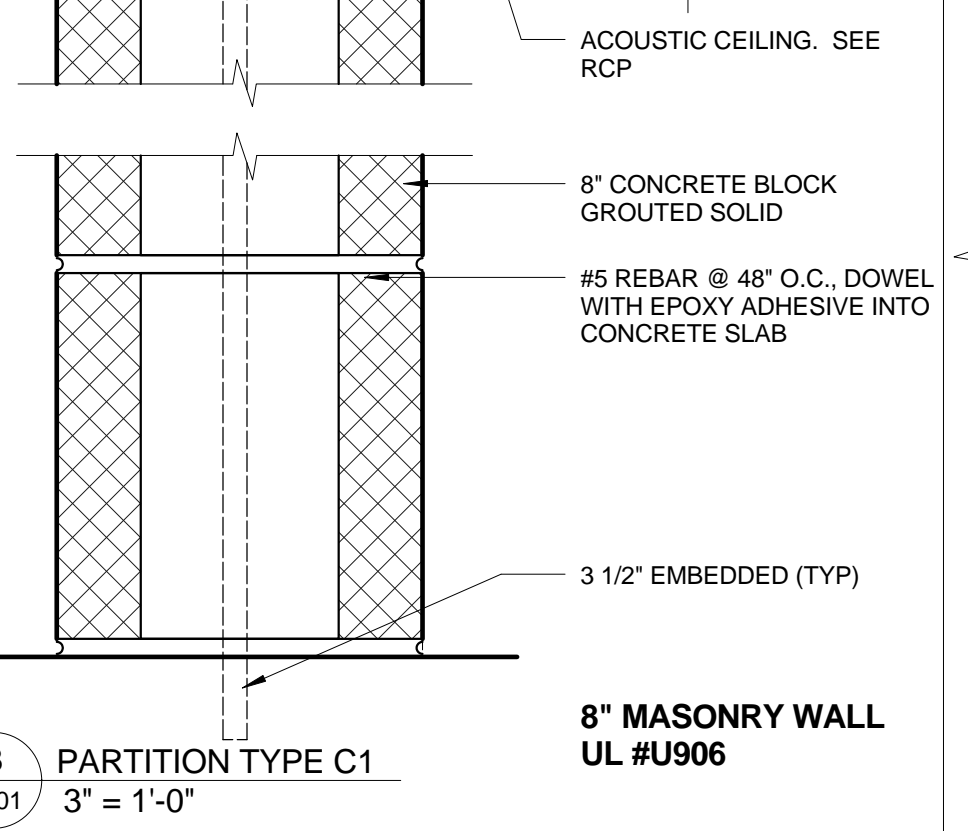
11 DOOR JAMB (J2)
3" = 1'-0"



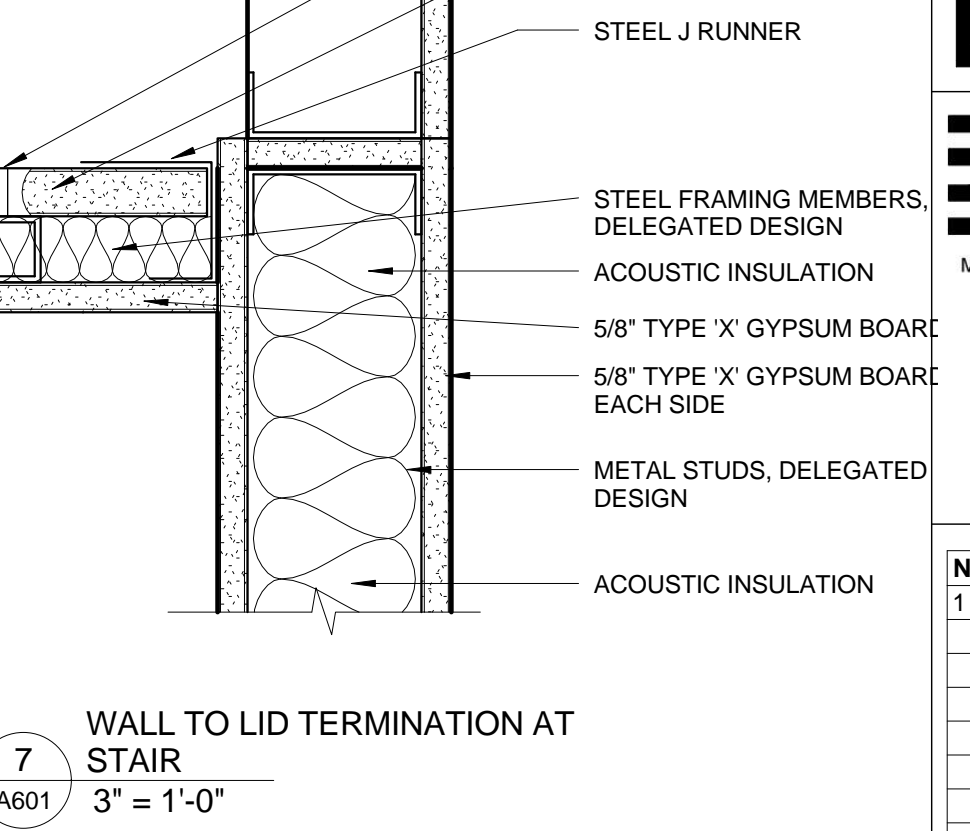
10 DOOR JAMB (J3)
3" = 1'-0"



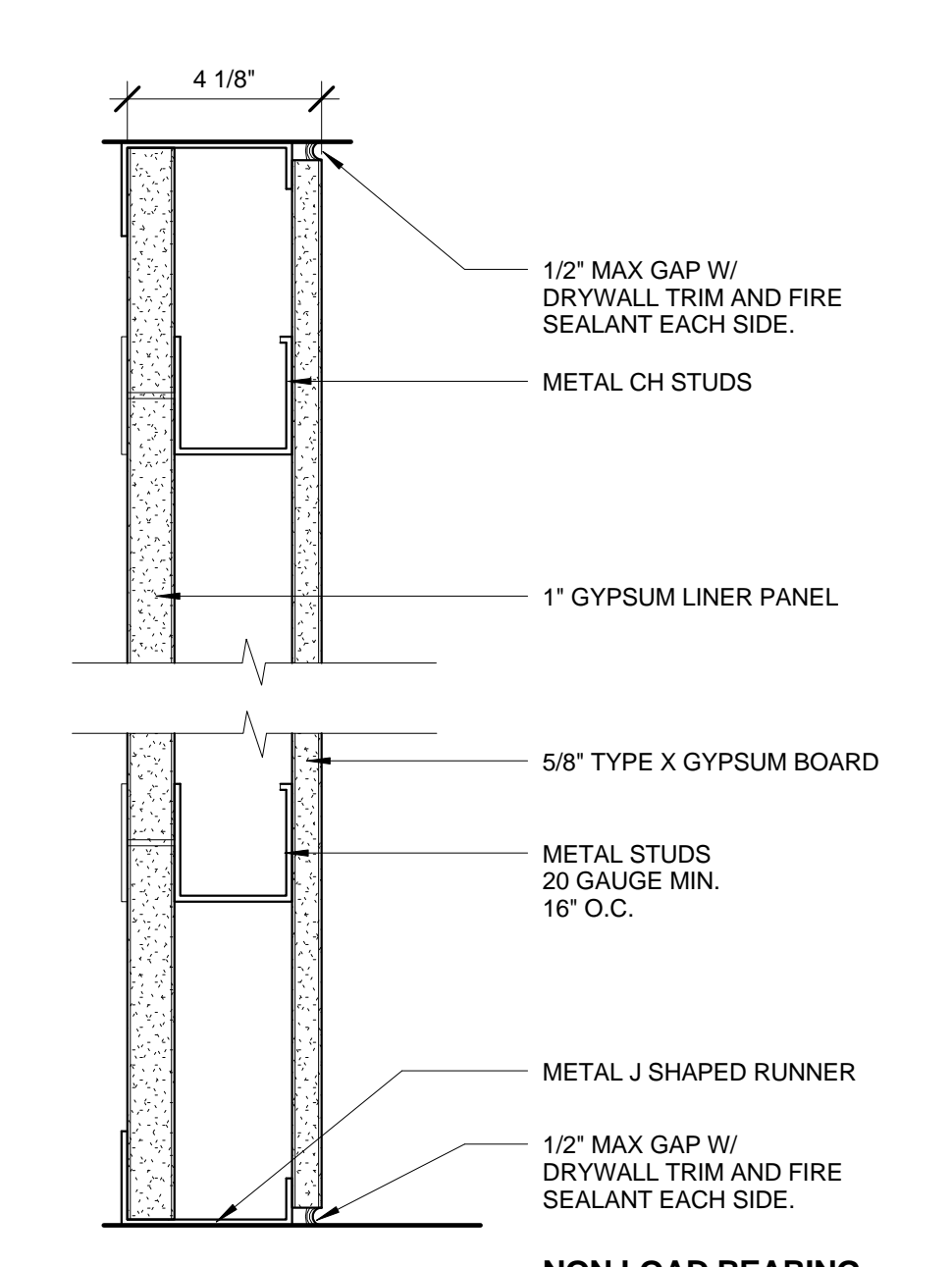
9 WOOD TRIM AT DOOR
1 1/2" = 1'-0"



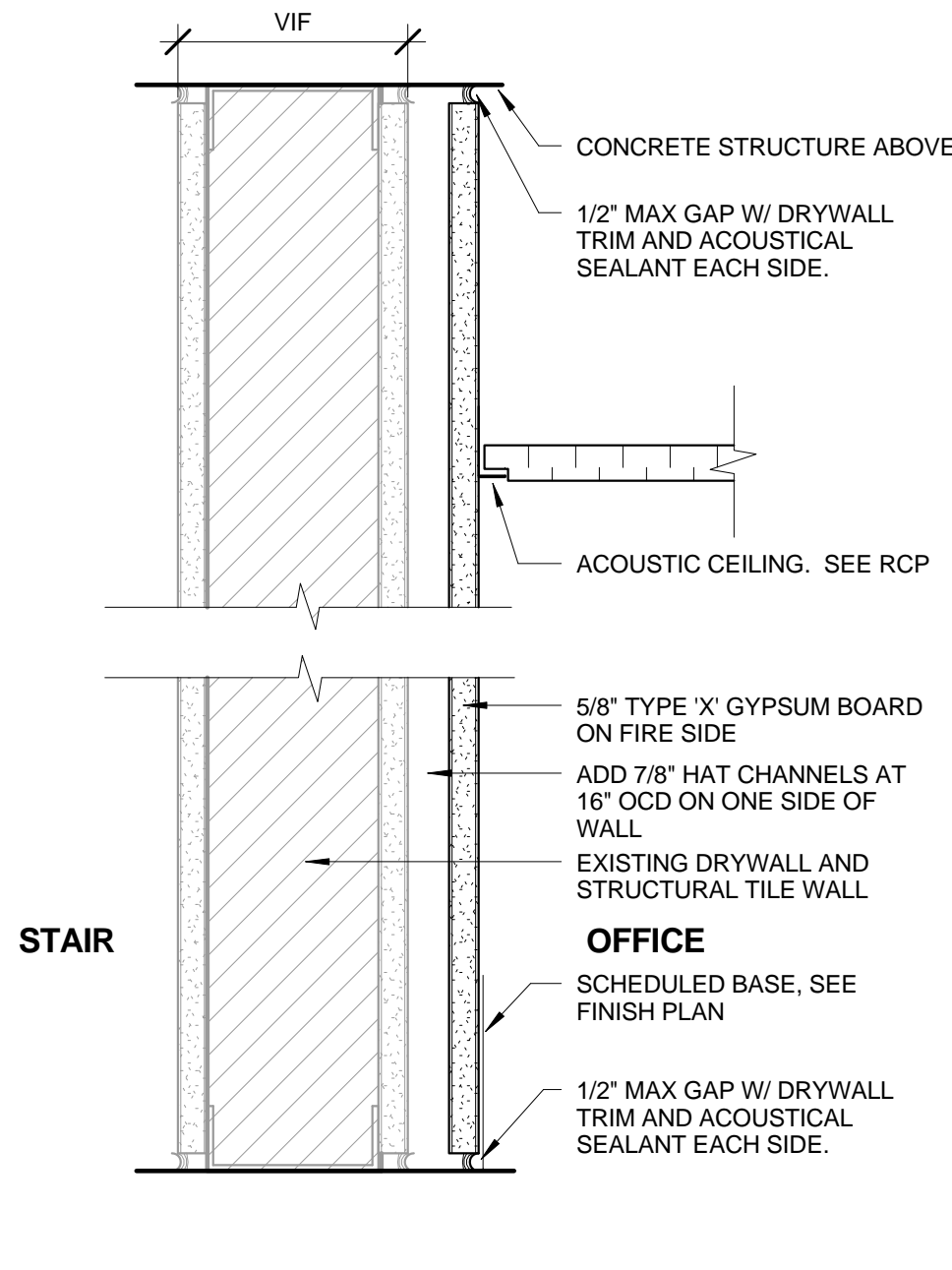
8 PARTITION TYPE C1
3" = 1'-0"



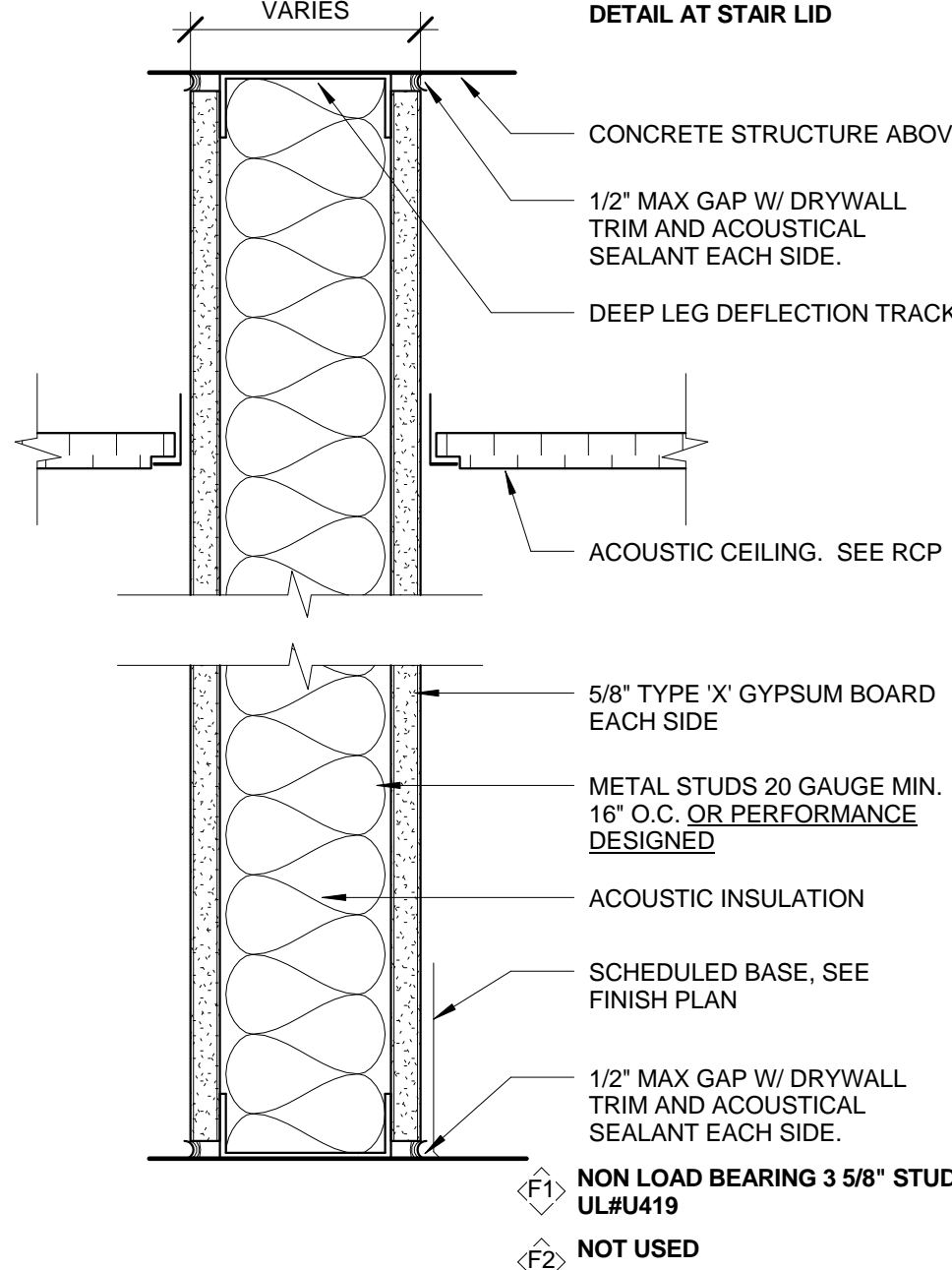
7 WALL TO LID TERMINATION AT STAIR
3" = 1'-0"



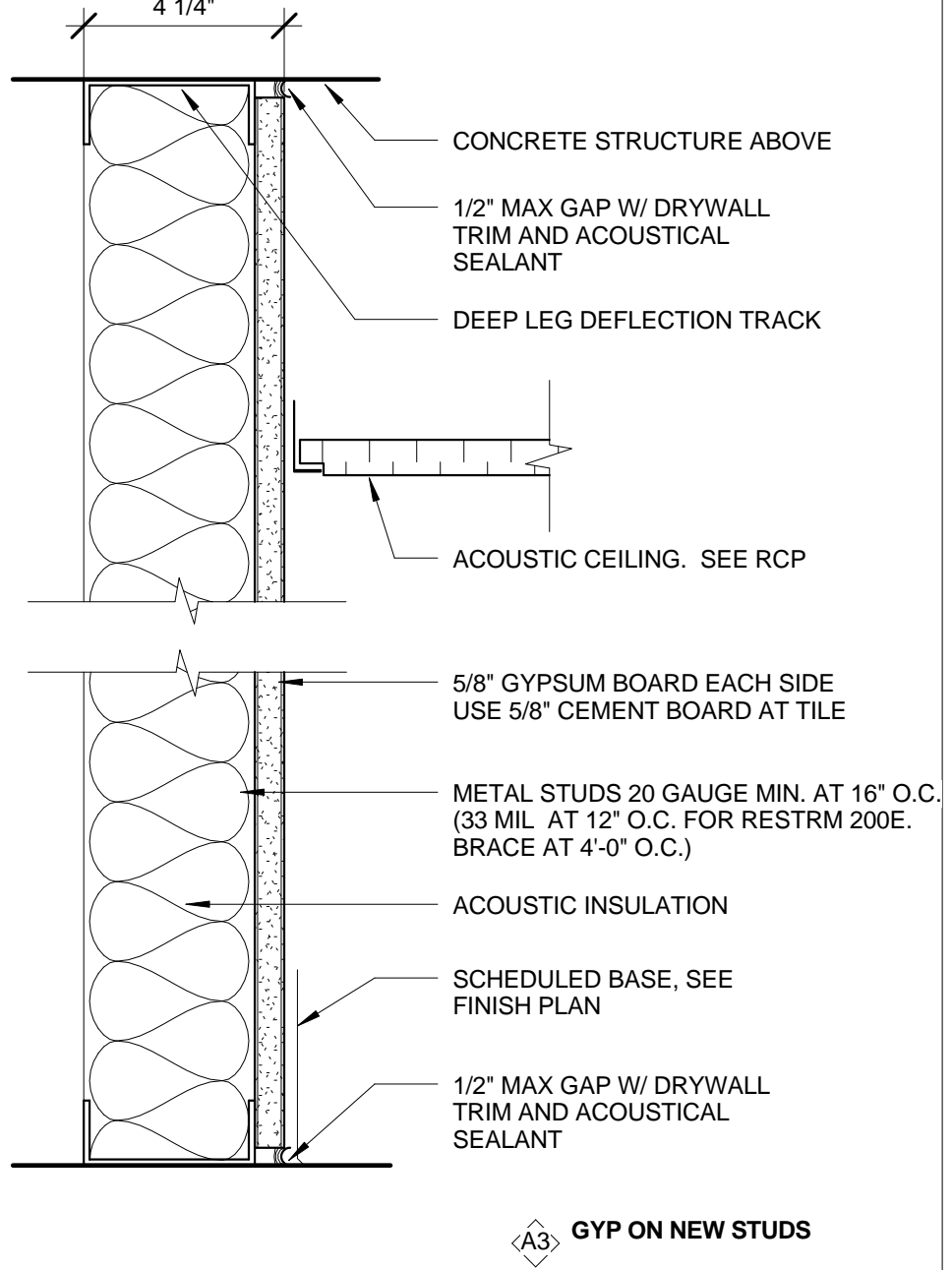
6 PARTITION TYPE F5
3" = 1'-0"



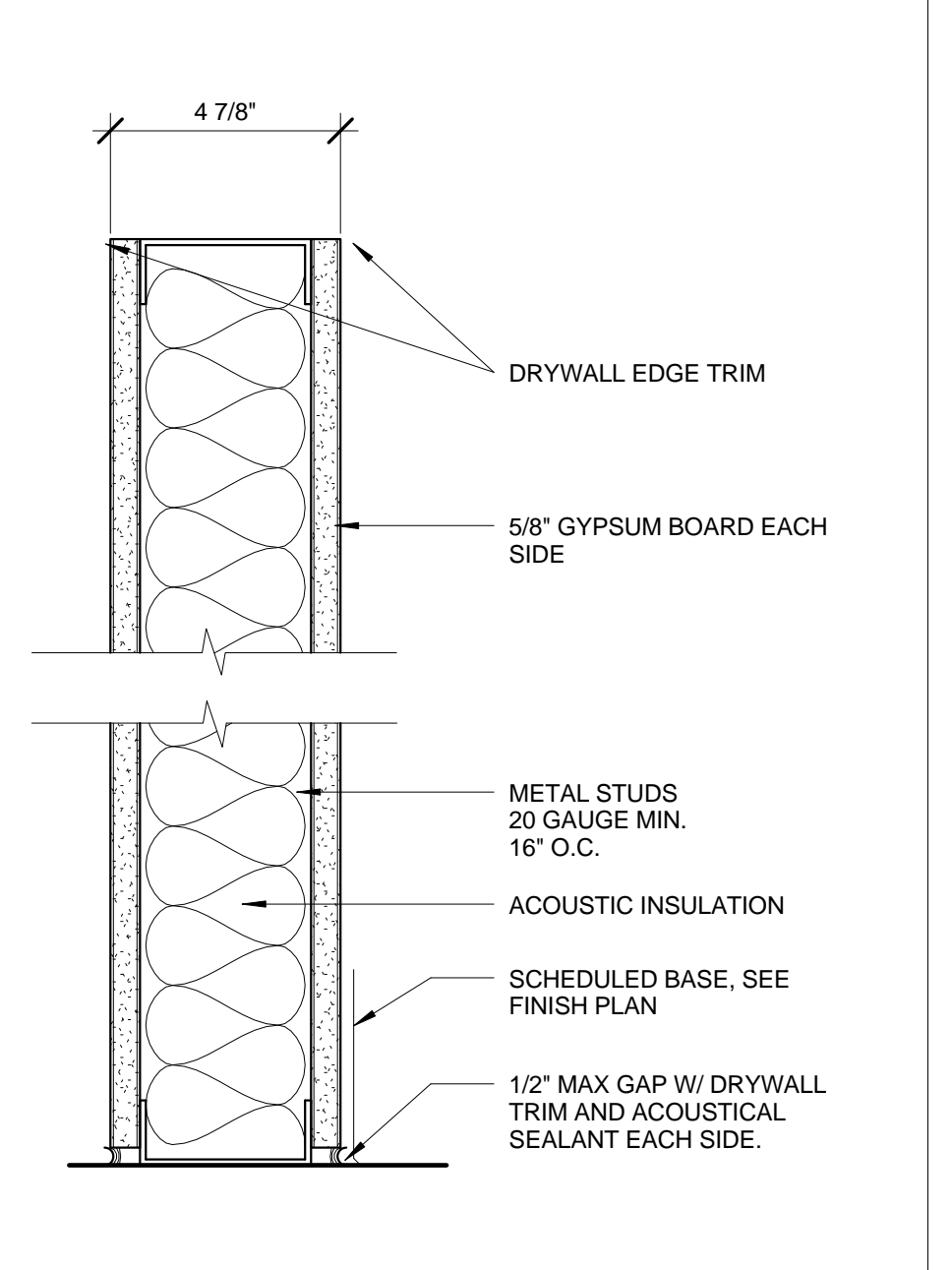
5 F4 PARTITION TYPE
3" = 1'-0"



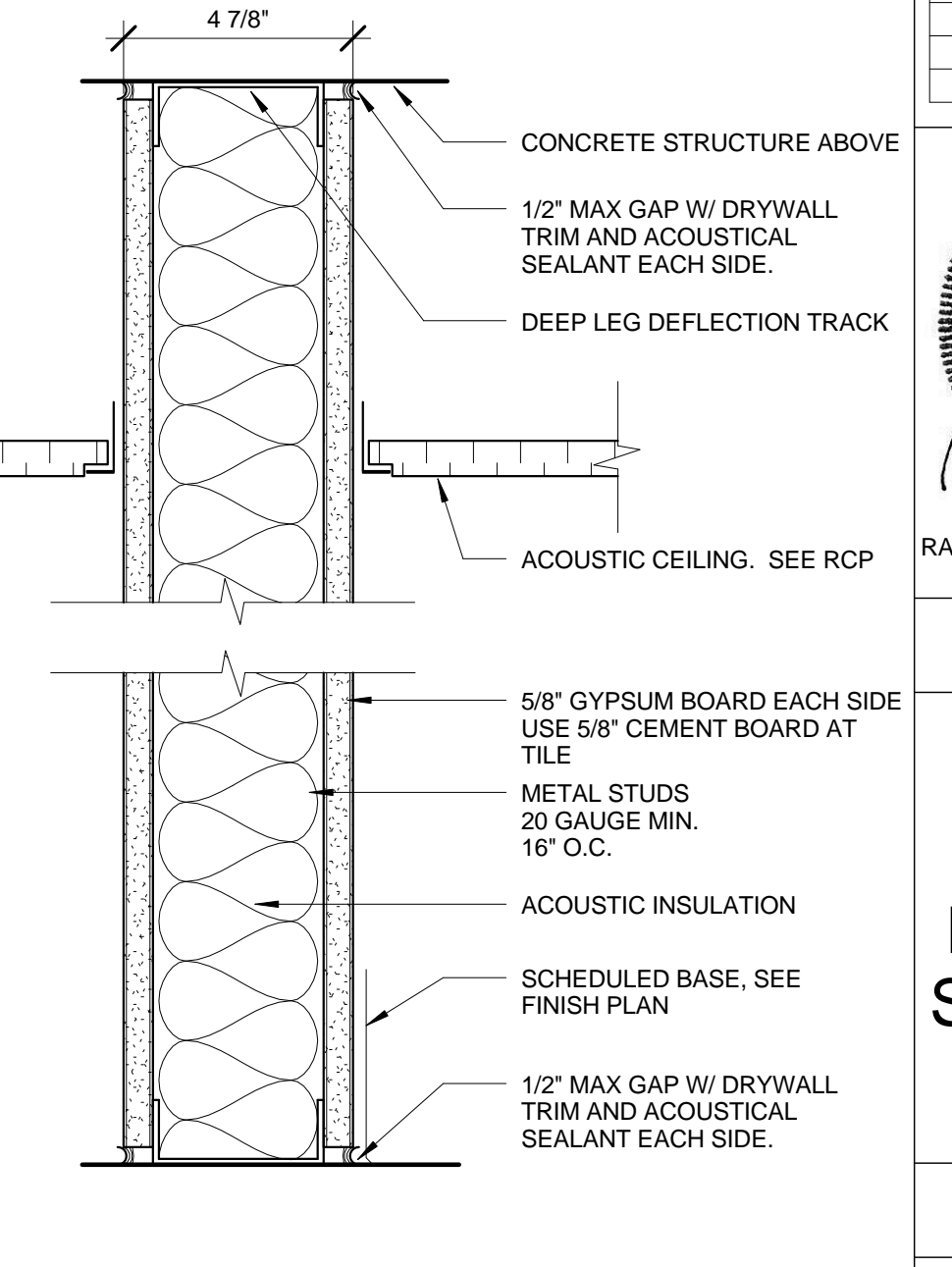
4 PARTITION TYPE F1 / F2
3" = 1'-0"



3 PARTITION TYPE A3 / A4
3" = 1'-0"



2 PARTITION TYPE A2
3" = 1'-0"



1 PARTITION TYPE A1 (UNO)
3" = 1'-0"

PARTITION NOTES

- A. SEE PLAN KEYNOTES FOR ROOMS TO RECEIVE GWB ON EXISTING METAL STUD WALLS
- B. SEE A-701 FOR DELEGATED DESIGN OF GWB ASSEMBLIES

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WWW.KLHENGRS.COM
1538 ALEXANDRIA PIKE, SUITE 111
FT. THOMAS, KENTUCKY 41076-8003-584793
859-442-8995
859-442-2658 FAX
LEXINGTON, KENTUCKY
COLUMBUS, OHIO
NEW YORK, NEW YORK

No.	Description	Date
1	BID & PERMIT	07/14/17

STATE OF OHIO
REGISTERED ARCHITECT
RACHEL E. BIESIK
11710

RACHEL E. BIESIK, LICENSE #11710
EXPIRATION DATE: 12/31/2017
DRAWN BY: EC
CHECKED BY: RB

DOOR, PARTITION, SCHEDULES

DATE
July 14, 2017

A601

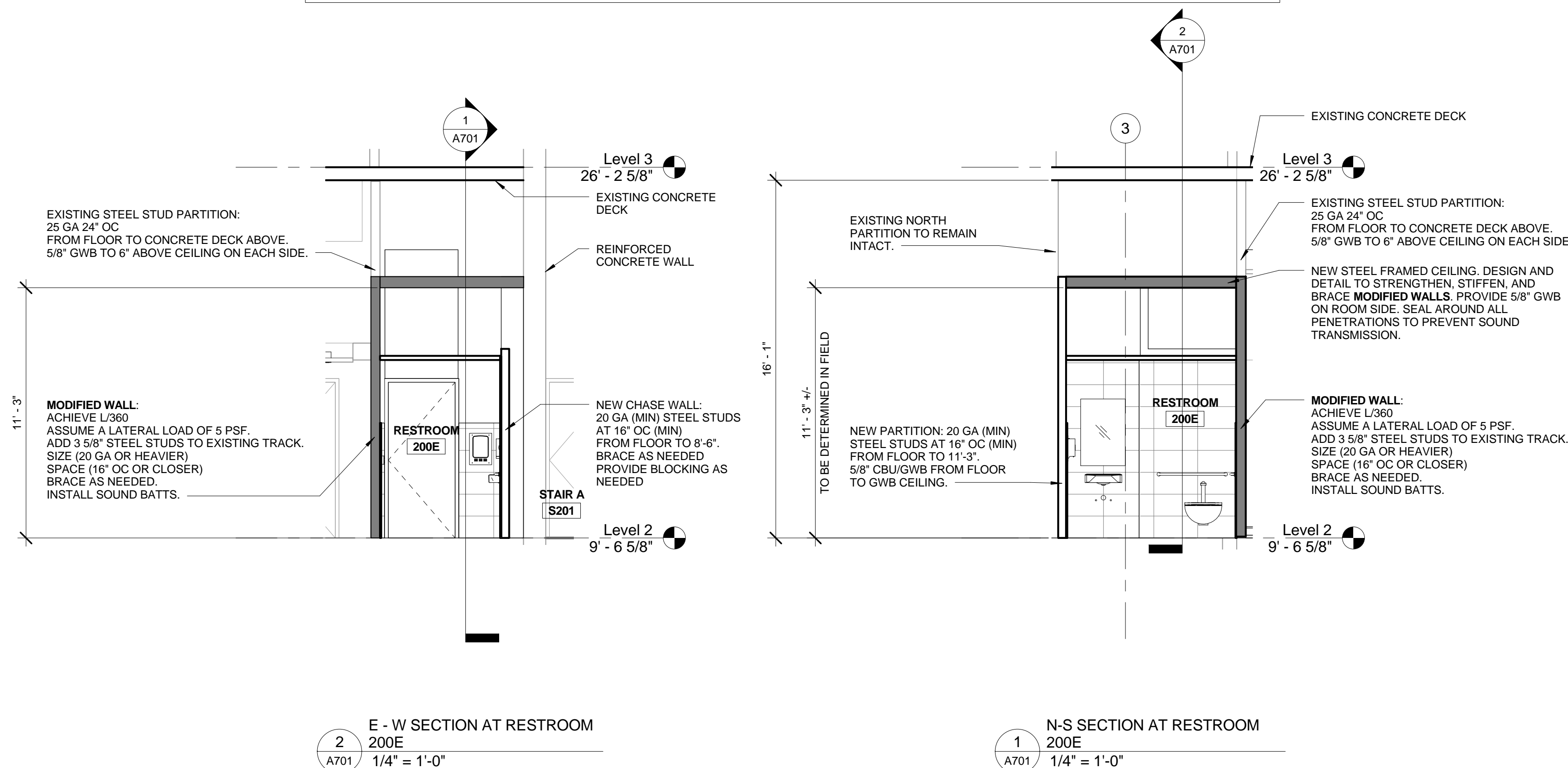
Furniture Legend				
Type Mark	MFR	FABRIC/ FINISHES	Description	
B-1	ALLERMUIR Jaks JA1	Arc-Com Omega AC-61176 Color: Blueberry #17	X shaped Bench seat	
B-2	Izzy Plus 'Sylvi' SYLBENCH42	Ultrafabrics Promessa Style 363. Color: 5818 Ash	Sylvi Lounge Bench 42" W	
B-3	Izzy Plus 'Sylvi' SYLLOUNGE66	Seat=Ultrafabrics Promessa Style 363 Color: 5818 Ash. Back= Arc-Com Sherlock AC-61949 Color:Ice Blue #10 Frame= P07 White	Sylvi Lounge Seat 66" W	
B-4	Izzy Plus 'Sylvi' SYLLOUNGE96	Seat=Ultrafabrics Promessa Style 363 Color: 5818 Ash. Back= Arc-Com Sherlock AC-61949 Color:Ice Blue #10 Frame= P07 White	Sylvi Lounge Seat 96" W	
BK-1	JSI 'Vision' VENEER bookcase VV3054BC CH1 BBN	Wood Veneer: Cherry Stain: Bourbon (Natural Cherry) Edge: Eased	4 SHELF BOOKCASE. VENEER = CHERRY STAIN=BOURBON (NATURAL CHERRY)	
C-1	STEELCASE 'Reply' Multi-Use chair with legs and no arms	Back=: Air Black mesh. Seat= Remix Night Blue RE13 Frame: Platinum Metallic	chrome sled base	
C-2	KIMBALL 'Poly' mesh stacking chair	Mesh = Black Tie	chrome sled base	
CR-1	Izzy Plus 'Audrey' Storage Credenza AUD ASY A6A 247229	P Lam top and P Lam case= LDQ Platinum. Edge Finish= Match Top. P Lam Door= LNT Neutral Twill	24"D X 72"W X 29"H with locking option - keyed alike	
CR-2	Izzy Plus 'Audrey' Storage Credenza AUD ASY B4E 184835	P Lam top and P Lam case= LDQ Platinum. Edge Finish= Match Top. P Lam Door= LNT Neutral Twill	18"D X 48"W X 35.5"H	
D-1	JSI VISION VENEER desk VV3066HDF CH1 BBN	Wood Veneer: Cherry Stain: Bourbon (Natural Cherry) Edge: Eased	30 x 66 SHELL DESK w/ recessed modesty	
L-1	ADESSO CORP OSLO FLOOR LAMP	MFR ID: 6237-02 ITEM #: ADS369013	Floor Lamp	
L-2	ADESSO CORP OSLO TABLE LAMP	MFR ID: 6236-02 ITEM #: ADS369012 ITEM #: ADS369012	Table lamp	
S-1	ALLERMUIR Fifty Series FIFT01	Arc-Com Sherlock AC-61949 COLOR: Ice Blue #10 Legs: Chrome	Armchair	
S-2	ALLERMUIR Fifty Series FIFT02	Arc-Com Sherlock AC-61949 COLOR: Ice Blue #10 Legs: Chrome	Two Seater	
T-1	JSI VISION 'Veneer' VV42CTD CH1 BBN	Wood Veneer: Cherry Stain: Bourbon (Natural Cherry) Edge: Eased	42" DIA. WOOD TABLE WITH CYLINDER BASE. EDGE=EASED	
T-2	Izzy Plus 'Sylvi' SYLRECT16EGANG	LBT Dover White E30 White Edgeband Frame= P07 White	Sylvi Rectangle Ganging end-of-run Table 16"	
T-3	Izzy Plus 'Sylvi' SYLSQ24IGANG	LBT Dover White E30 White Edgeband Frame= P07 White	Sylvi Square Ganging in-line Table 24"	
T-4	Izzy Plus 'Sylvi' SYLSQ24CGANG	LBT Dover White E30 White Edgeband Frame= P07 White	Sylvi Square Ganging corner Table 24"	
T-5	Izzy Plus 'Sylvi' SYLRECT16IGANG	LBT Dover White E30 White Edgeband Frame= P07 White	Sylvi Rectangle Ganging In-line Table 16" Table"	
T-6	Izzy Plus 'Sylvi' SYLLOLLI	LBT Dover White E30 White Edgeband Frame= P07 White	Lolli-top	

Specialty Equipment Schedule			
Type Mark	Type Comments	Manufacturer	Description
HW-1	HOT COLD WATER DISPENSER	ATLANTIS POU COOLER MODEL: POU1SHS COLOR: BLACK	
TR-1	TRASH/RECYCLE	VENDOR: UNITED, 9040.99 TRASH RECYCLE, FGR RECEPTACLE, LIGHT GRAY.	DISTRIBUTER: MURPHY SUPPLY (HAMILTON OHIO)

COLD FORMED FRAMING - DELEGATED/PERFORMANCE DESIGN

GAUGE, SPACING AND DETAILS OR FRAMING FOR NEW FIRESTAIR AND RESTROOM 200E WALLS AND CEILINGS TO BE ENGINEERED BY CONTRACTOR. SEE SHEET A-300 FOR NEW FIRESTAIR.

NOTE: EXISTING STUD WALLS OF RESTROOM 200E ARE NOT STIFF/STRONG ENOUGH TO SUPPORT CEMENTITIOUS BACKER BOARD AND TILE. DESIGN AND DETAIL A MODIFIED STEEL STUD WALL AND NEW STEEL FRAMED CEILING TO SUPPORT NEW MATERIALS, PLUMBING FIXTURES AND ACCESSORIES. REMOVE GWB FROM INSIDE OF ROOM TO HT REQ'D TO INSTALL ADDITIONAL FRAMING AS SHOWN BELOW. SEE SHEET A-401 FOR GRAB BARS REQUIRING BLOCKING



FINISH LEGEND

CARPET (CPT)

CPT-1 (TILE)
MANUFACTURER: SHAW
STYLE: FINE POINT
COLOR: SLATE
LAYOUT: ASHLAR
LOCATION: SEE PLAN
CONTACT: AMY CLARK @ 513.375.7429 (EMAIL) amy.clark@shawinc.com

CPT-2 (BROADLOOM)
MANUFACTURER: SHAW
STYLE: CONTE ULTRALOC
COLOR: SLATE
LAYOUT: BROADLOOM
LOCATION: SEE PLAN
CONTACT: AMY CLARK @ 513.375.7429 (EMAIL) amy.clark@shawinc.com

CPT-3 (WALK OFF)
MANUFACTURER: J&J
STYLE: RUNWAY MODULAR
COLOR: FRESH FACE
LAYOUT: TILE
LOCATION: SEE PLAN
CONTACT: AMY CLARK @ 513.375.7429 (EMAIL) amy.clark@shawinc.com

PORCELAIN TILE (T)

T-1 (FLOOR)
MANUFACTURER: FLORIDA TILE
STYLE: SPAN 12" X 24" X 9MM
COLOR: 34513T SILVER TEXTURED (PRESSED)
LAYOUT: ASHLAR
GROUT & SEALANT = LATICRETE (78) STERLING SILVER
LOCATION: RESTROOM 200E

T-2 (WALL)

MANUFACTURER: FLORIDA TILE
STYLE: RHYME 12" X 24" X 9MM
RHYME 3" X 12" X 9MM BULLNOSE
COLOR: 28513 SILVER MELODY
LAYOUT: STACKED
GROUT & SEALANT = LATICRETE (89) SMOKE GREY
LOCATION: RESTROOM 200E

TRANSITION STRIP TYPES (TS)

NOTE:
- ALIGN TRANSITION STRIPS UNDER CENTERLINE OF CLOSED DOOR.
- FIELD VERIFY AND COORDINATE TS SIZES & TYPES WITH INSTALLED FINISHES

TS-1
(CARPET TO VINYL OR LINOLEUM)
STYLE: ROPPE #50 TILE CARPET JOINER (VINYL)
COLOR: MATCH WALL BASE

TS-2
(CARPET TO CONCRETE)
STYLE: ROPPE #42 CUSTOM CARPET EDGING 3/16" (RUBBER)
COLOR: MATCH WALL BASE

TS-3
(PORCELAIN TILE TO LVT)
MARBLE (SEE 17/A801)

LUXURY VINYL TILE (LVT)

LVT-1 (FOR PATCHING AT NEW OPENINGS IN CORRIDORS)
MANUFACTURER: MANNINGTON COMMERCIAL
STYLE: AMTICO SIGNATURE
COLOR: AROW7000 CHERRY
LAYOUT: MATCH EXISTING
LOCATION: SEE PLAN

RUBBER/VINYL BASE (RB)

RB-1
MANUFACTURER: ROPPE
TYPE: PINNACLE TS RUBBER WALL BASE STANDARD TOE
STYLE: WALL BASE 1/8"
SIZE: 4"H
COLOR: 193 BLACK BROWN
LOCATION: OFFICES TYP. SEE PLAN

RB-2
MANUFACTURER: ROPPE
TYPE: PINNACLE PLUS TS RUBBER WALL BASE #85
STYLE: WALL BASE 1/8"
SIZE: 4 1/4"H
COLOR: 193 BLACK BROWN
LOCATION: FIRST FLOOR CORRIDOR, TYP. SEE PLAN

RB-3
MANUFACTURER: ROPPE
TYPE: PINNACLE PLUS TS RUBBER WALL BASE #85
STYLE: WALL BASE 1/4"
SIZE: 6"H
COLOR: 193 BLACK BROWN
LOCATION: PRESENTATION ROOM. SEE PLAN

RB-4
MANUFACTURER: ROPPE
TYPE: PINNACLE PLUS TS RUBBER WALL BASE #85
STYLE: WALL BASE 1/4"
SIZE: 4"H
COLOR: 150 DARK GRAY
LOCATION: SECOND FLOOR CORRIDOR

WOOD PANELING (WD-1)

MANUFACTURER:
TYPE: WOOD VENEER
STYLE: CHERRY, DARK STAIN, MATCH ARCHITECT'S SAMPLE
SIZE: SEE ELEVATIONS
COLOR: TBD
LOCATION: 1ST & 2ND FLOOR WAITING

WD-2 (REUSE EXISTING WOOD BASE & USE NEW AS NEEDED)
MANUFACTURER: SPECTRIM
TYPE: TRADITIONAL SERIES PANEL MOLDING TCB-411
STYLE: MEDIUM BASE
SIZE: 3/4" X 5 1/2"
COLOR: #17 MEDIUM CHERRY
LOCATION: SEE PLANS

WD-3 (REUSE EXISTING WOOD BASE & USE NEW AS NEEDED)
MANUFACTURER: SPECTRIM
TYPE: TRADITIONAL SERIES PANEL MOLDING TCS-511
STYLE: CASING LARGE
SIZE: 1" X 3 3/4"
COLOR: #17 MEDIUM CHERRY
LOCATION: SEE PLANS

FABRIC WRAPPED ACOUSTIC PANELS (FAB-1)
MANUFACTURER: CARNEGIE XOREL
TYPE: 52" WIDE, CLASS A (ASTM E-84)
STYLE: DASH
COLOR: 36
LOCATION: PRESENTATION ROOM
BACKING: CONVEX PANELS, A SERIES.

PLASTIC LAMINATE

PLAM-1
MANUFACTURER: FORMICA
STYLE: MATTE FINISH
COLOR: NEUTRAL TWILL
LOCATION: PRESENTATION ROOM VERTICAL SURFACES

PLAM-2
MANUFACTURER: WILSONART
STYLE: MATTE FINISH
COLOR: DOD PLATINUM
LOCATION: PRESENTATION ROOM COUNTERTOP

PAINTS (PT)

NOTE: PROVIDE 4" X 8" PAINT SAMPLE AT SITE FOR FINAL APPROVAL WITH FINAL LIGHTING IN PLACE
NOTE: U.O.N. SEE PAINT FINISH TYPE LISTED BELOW:
*FLAT/MATTE AT CEILING LOCATIONS
*EGGSHELL AT WALL LOCATIONS
*SEMGLOSS AT TRIM / DOOR LOCATIONS
*ELECTROSTATIC PAINT AT CONVECTOR COVERS, LOUVERS, ETC.
*FOLLOW ALL MANUFACTURERS SUGGESTED GUIDELINES

PT-1
(TYPICAL WALL PAINT)
MANUFACTURER: SHERWIN WILLIAMS
COLOR: 7015 REPOSE GRAY
FINISH: EGGSHELL

PT-2
(GYP CEILINGS & SOFFITS)
MANUFACTURER: SHERWIN WILLIAMS
COLOR: PURE WHITE
FINISH: FLAT (TYP)

PT-3
(HOLLOW METAL DOOR FRAMES)
MANUFACTURER: SHERWIN WILLIAMS
COLOR: 7015 REPOSE GRAY
FINISH: SEMI-GLOSS

PT-4
(RESTROOMS)
MANUFACTURER: SHERWIN WILLIAMS
COLOR: TBD
FINISH: EGGSHELL

PT-5
(ELEVATOR JAMBS, HEAD & DOORS)
MANUFACTURER: ZOLATONE
COLOR: METAL ZML-5360

PT-6
(ACCENT WALL)
MANUFACTURER: SHERWIN WILLIAMS
COLOR: TBD
FINISH: EGGSHELL

WALL COVERING (WC)

WC-1
MANUFACTURER: CARNEGIE XOREL
TYPE: 52" WIDE, CLASS A (ASTM E-84)
STYLE: DASH
COLOR: 36
LOCATION: PRESENTATION ROOM, CORRIDOR, ELEV LOBBY

WC-2
MANUFACTURER: TBD
PRODUCT: CUSTOM GRAPHIC
COLOR:
LOCATION: SEE FINISH PLAN

CEILINGS (ACT)

ACT-1
MANUFACTURER: ARMSTRONG
PRODUCT: DUNE ANGLED TEGULAR
GRID: 15/16 PRELUDE XL
SIZE: 2'X2'
COLOR: WHITE
LOCATION: SEE RCP

ACT-2
MANUFACTURER: ARMSTRONG
PRODUCT: DUNE ANGLED TEGULAR
GRID: 15/16 PRELUDE XL (BLACK)
SIZE: 2'X2'
COLOR: BLACK
LOCATION: SEE RCP

- Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items in place that are not to be painted, or provide surface-applied protection prior to surface preparation and painting. Remove these items if necessary for complete painting of the items and adjacent surfaces. Following completion of painting operations in each space or area, have items reinstalled by workers skilled in the trades involved.
- Clean corridor walls with a de-greaser before painting. De-gloss by lightly abrading w/ approved mechanical means. Wipe away the sanding dust with a damp cloth.
- Schedule cleaning and painting so that dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.
- Before painting the following existing previously painted metal items, Scrape away all loose paint, De-gloss by lightly abrading w/ approved mechanical means, Wipe away the sanding dust with a damp cloth:
 - Wall mounted access panel & frame.
 - Fire extinguisher cabinet frame, door and hinges (with door open) Remove paint from hinges.
 - Hollow metal door and frames
 - Hollow metal frames of interior windows

No.	Description	Date
1	BID & PERMIT	07/14/17



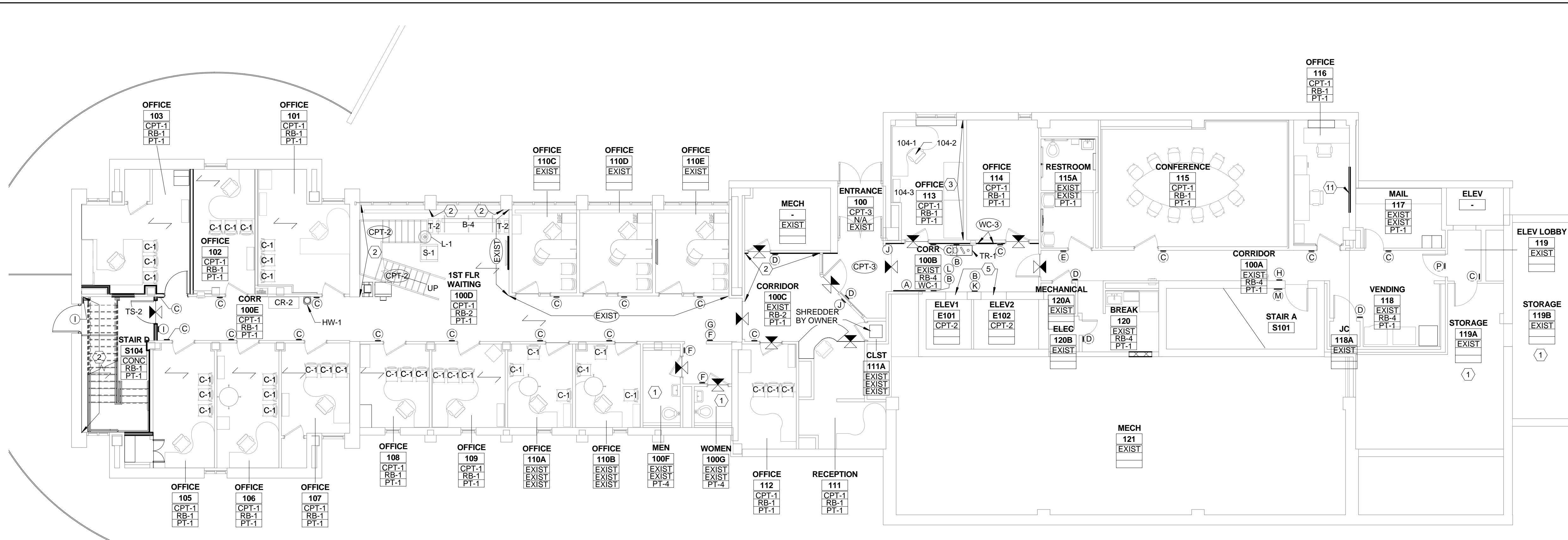
RACHEL E. BIESIK, LICENSE #11710
EXPIRATION DATE: 12/31/2017

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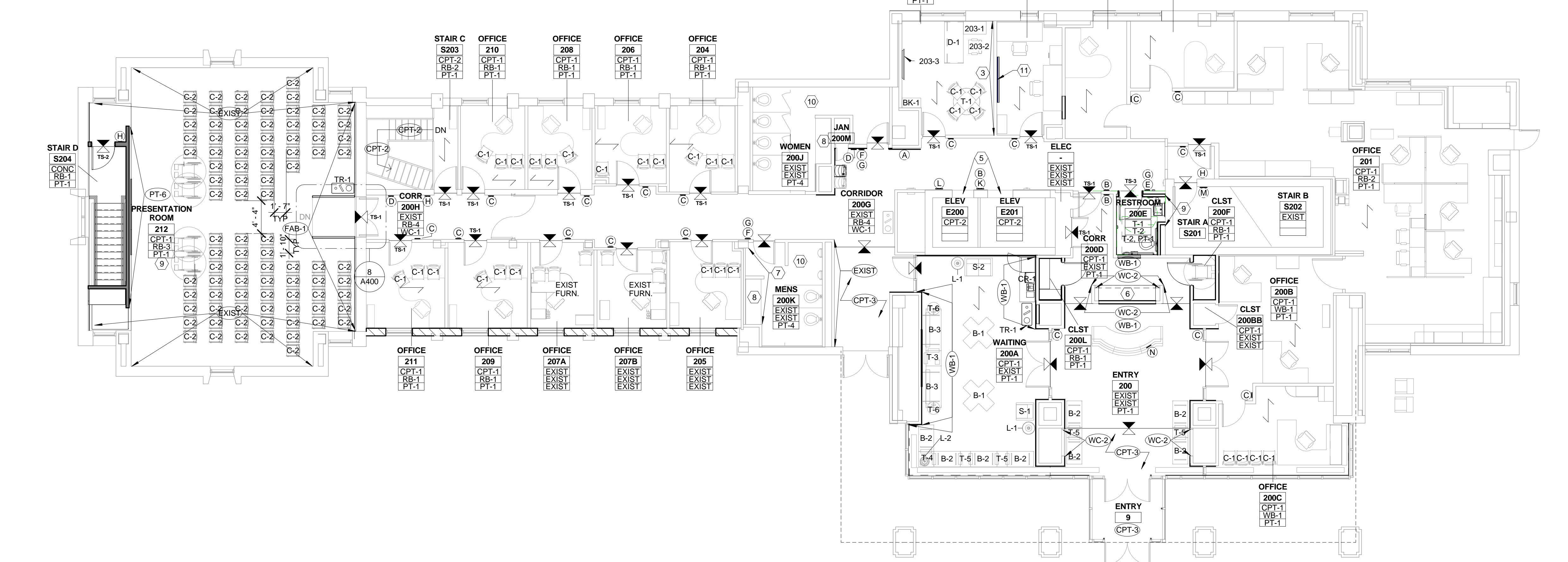
FF&E LEGENDS, COLD FORMED FRAMING

DATE
July 14, 2017

A701



2 Level 1 FINISH/FURNITURE PLAN
A702 1/8" = 1'-0"



1 Level 2 FINISH/FURNITURE PLAN
A702 1/8" = 1'-0"

FINISH PLAN NOTES

- A. SEE A-701 FOR FINISH SCHEDULE
- B. EXISTING WOOD TRIM SHOULD NOT BE PAINTED
- C. IN ROOMS RECEIVING NEW PAINT, PATCH AND REPAIR EXISTING GYP BOARD, PAINT ALL WALLS, HM DOOR TRIM (BOTH SIDES) AND GYP CEILING & SOFFITS PER FINISH SCHEDULE.
- D. PAINT EXISTING PAINTED FAN COIL UNITS, FIRE EXTINGUISHERS AND HOSE CABINETS IN ROOMS RECEIVING NEW PAINT. MATCH HM TRIM.
- E. IN CORRIDORS WITH EXISTING FRAMED ARTWORK, TACK BOARDS, AND WALL MOUNTED EQUIPMENT, REMOVE AND REINSTALL AFTER WALLS ARE PAINTED.

FINISH KEYNOTES

- 1. EXISTING TO REMAIN
- 2. EXISTING MASONRY WALL TO REMAIN. NO BASE AT LIMESTONE. INSTALL BASE AT EXPOSED BRICK WALLS.
- 3. NEW WHITE BOARD PAINT FROM FLOOR TO 8'AFF. SEE SPECIFICATIONS
- 4. APPLY NEW PT-5 FINISH TO ELEVATOR CAB, JAMBS AND DOORS
- 5. WRAP WALL COVERING TO INSIDE OF OPENING ON ALL SIDES. PAINT INTERIOR P-1
- 6. PATCH EXISTING CERAMIC WALL TILE TRIM. 4 1/4 X 4 1/4 (S-4449) DAL-TILE BULLNOSE 100 WHITE. MATCH EXISTING WHITE GROUT.
- 7. REPLACE CAULK AT EXISTING COUNTERTOP, BACK & SIDE SPLASHES. SILICONE @ COUNTER & LAV BOWLS. LATEX AT WALL.
- 8. NO WOOD BASE AT BRICK WALLS
- 9. IN 200J AND 200K. REMOVE EXISTING WALL MTD PAPER TOWEL DISPENSERS AND WASTE RECEPTACLES. REMOVE DAMAGED TILE AND REPLACE.
- 11. INSTALL OWNER SUPPLIED 4' X 8' MARKERBOARD

FURNITURE

- A. FURNITURE W/OUT TAGS = EXISTING TO REMAIN.
- B. SEE SHEET A701 FOR FURNITURE SCHEDULE.

FINISH LEGEND

- FLOORING TRANSITION. PROVIDE TRANSITION STRIP BETWEEN DISSIMILAR MATERIALS
- FLOORING PATTERN DIRECTION
- FINISH SYMBOL
- ROOM TAG FINISH DESIGNATIONS
- ROOM SIGN TYPE, SEE A800

**Schott Hall Admissions Office
Renovation Phase II**
 1496 Dana Ave Cincinnati, Ohio 45207



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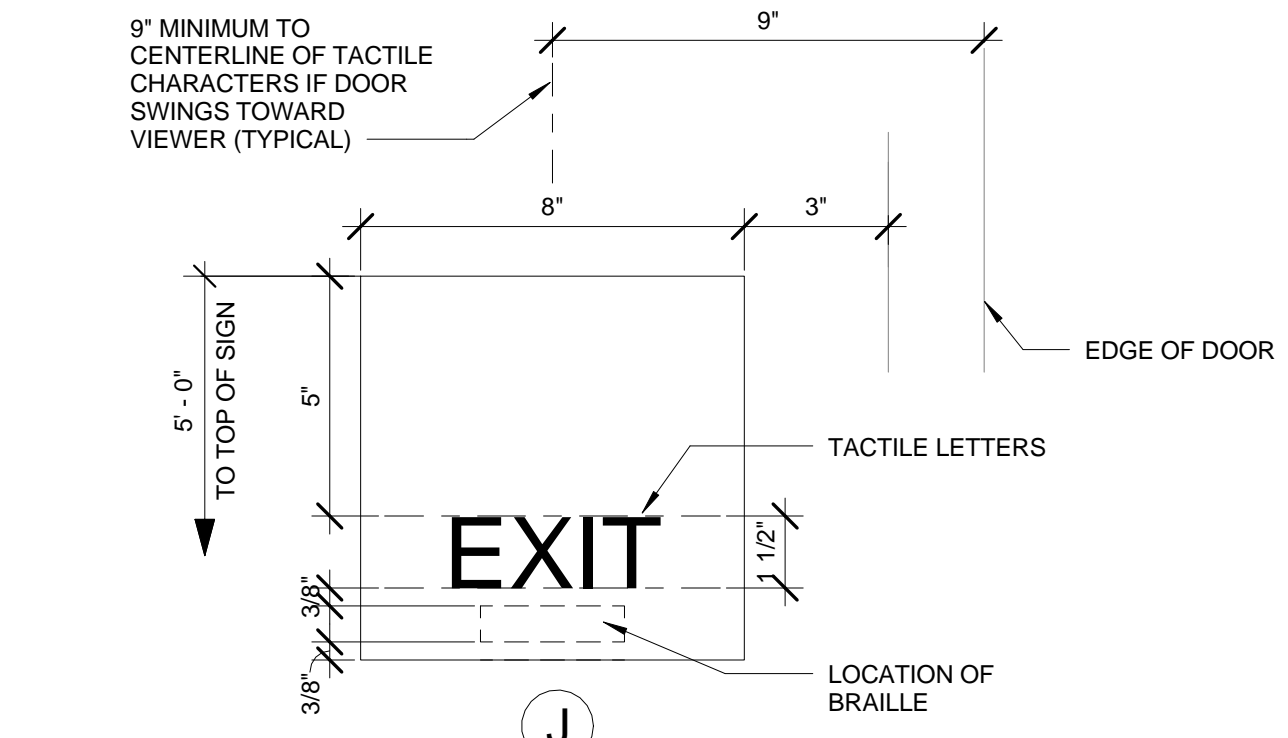
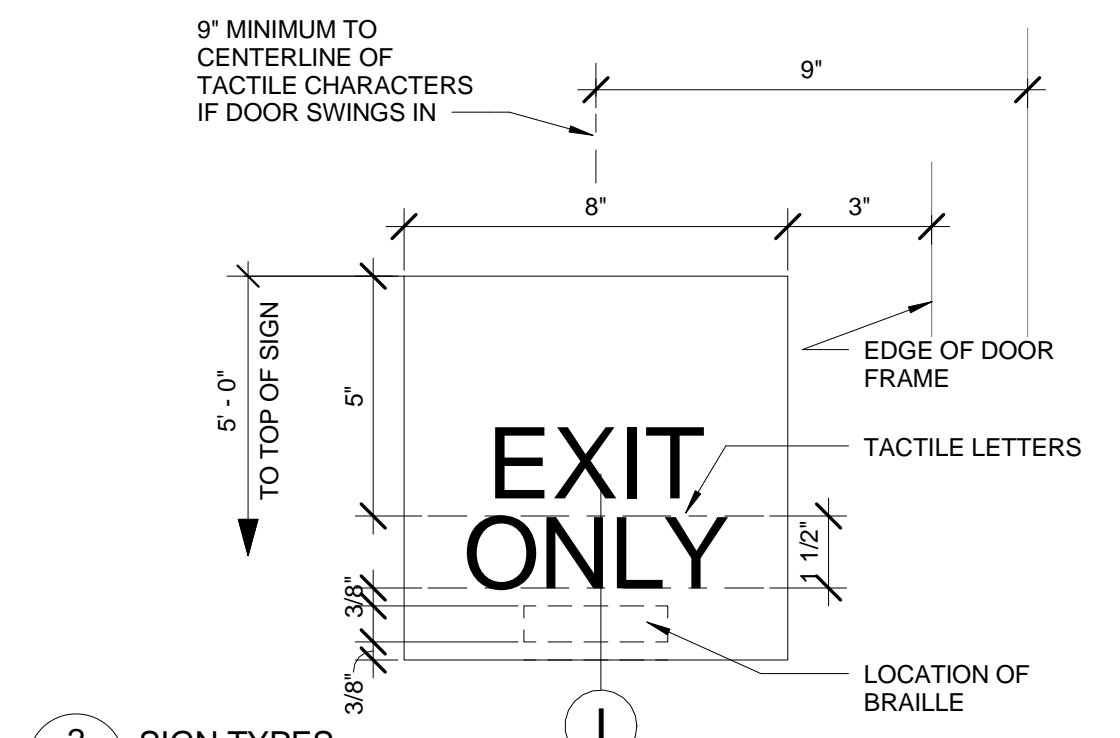
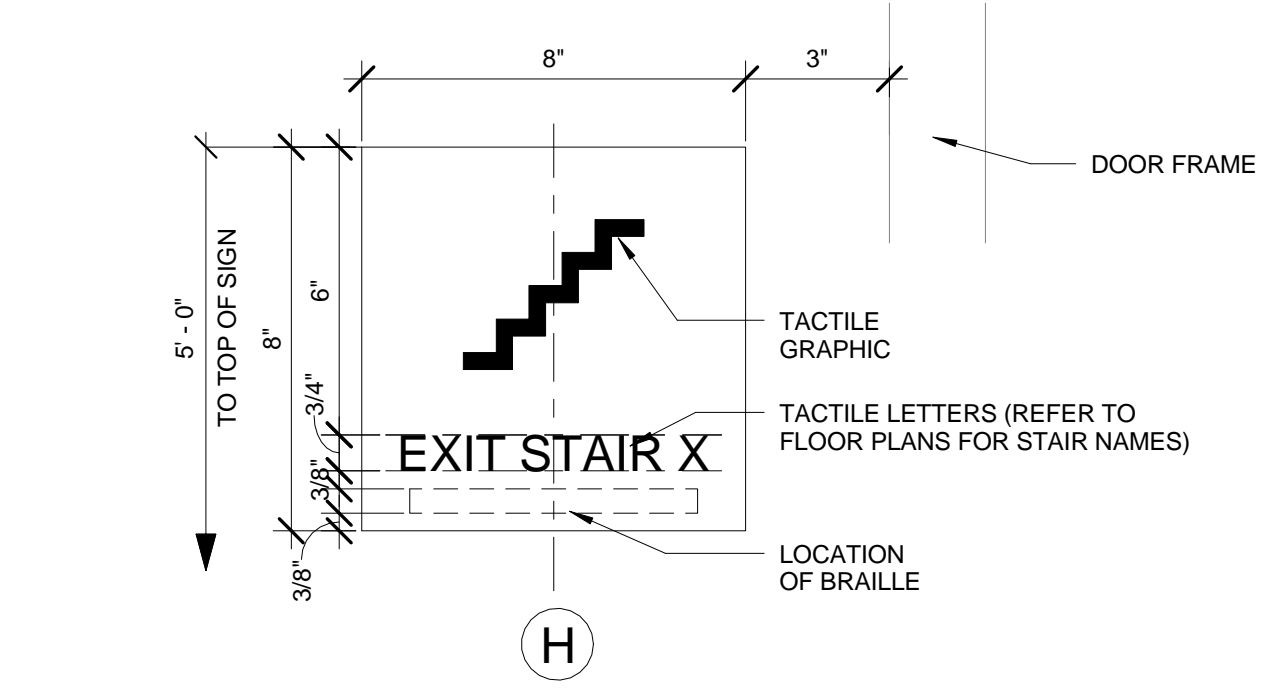
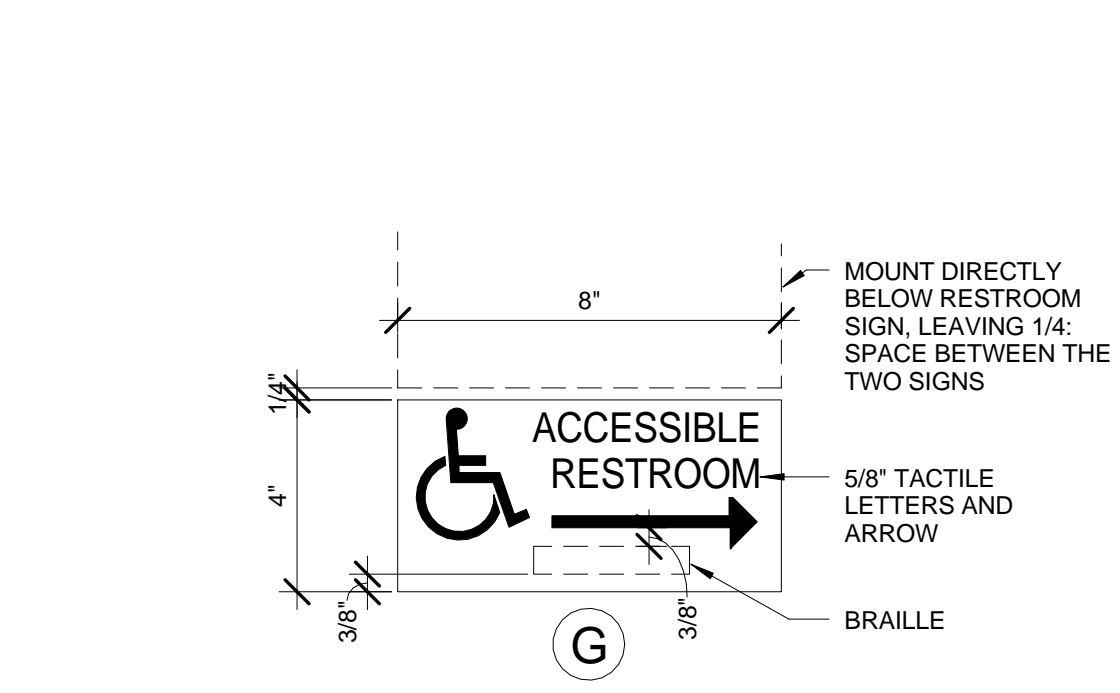
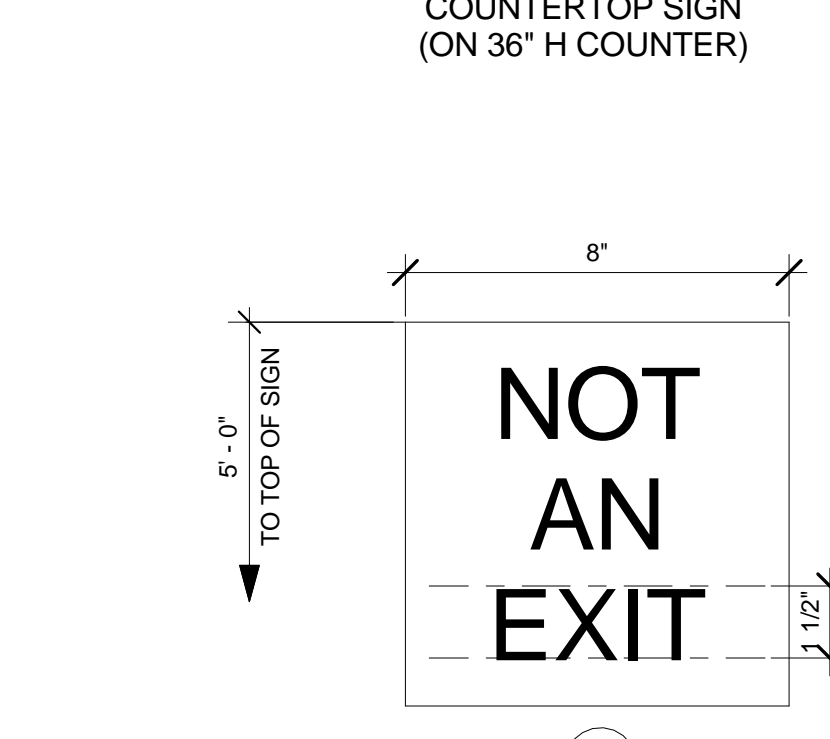
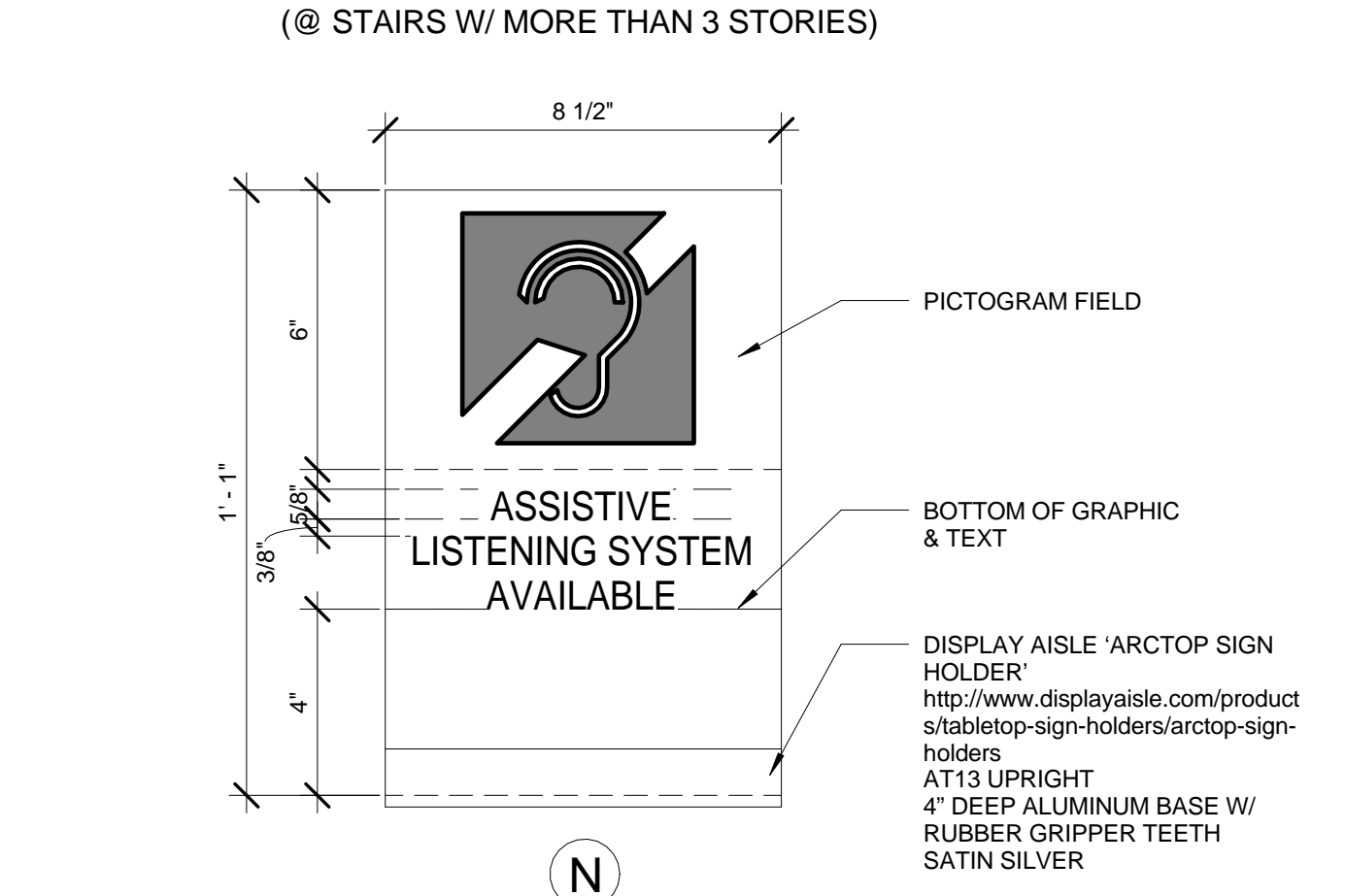
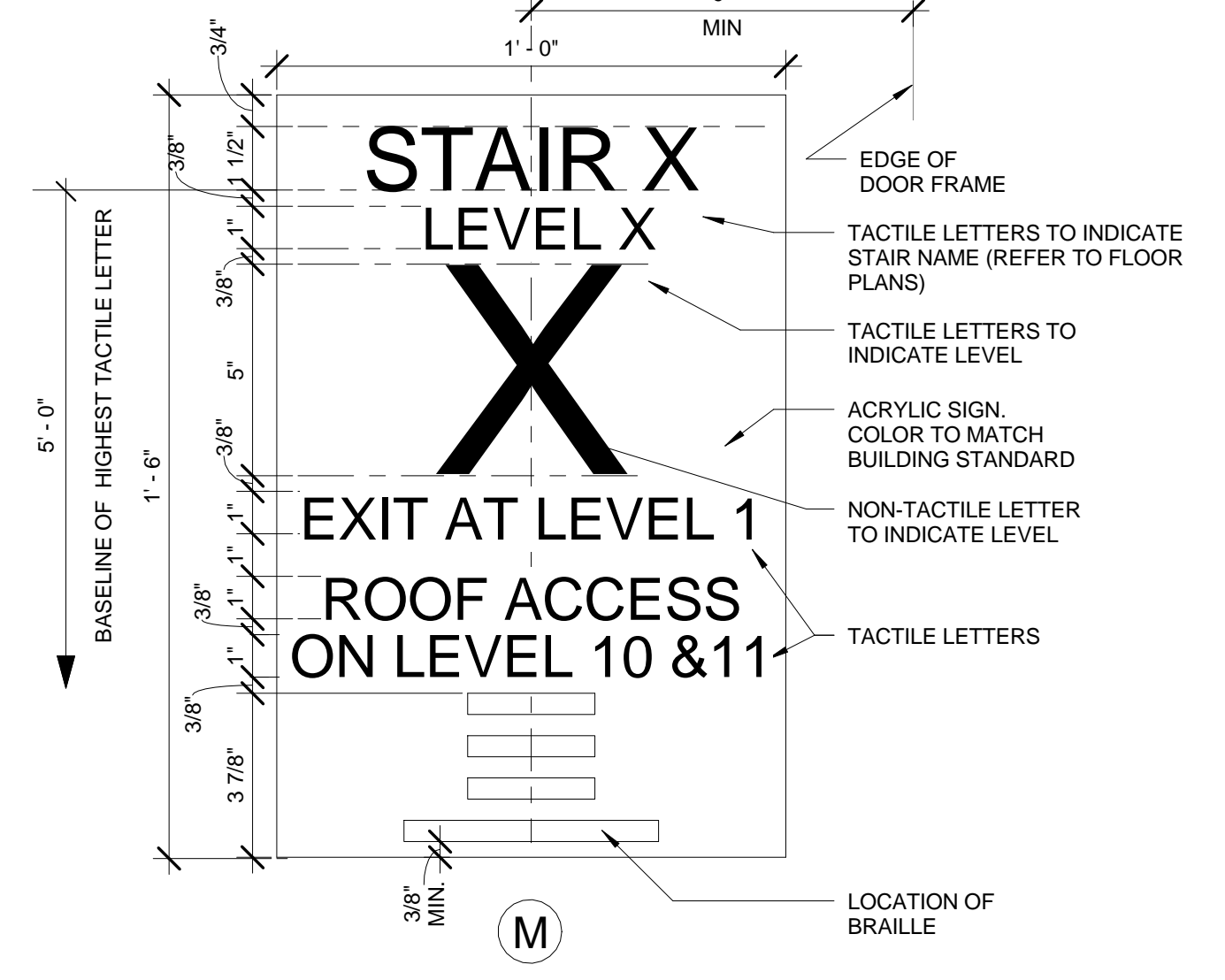
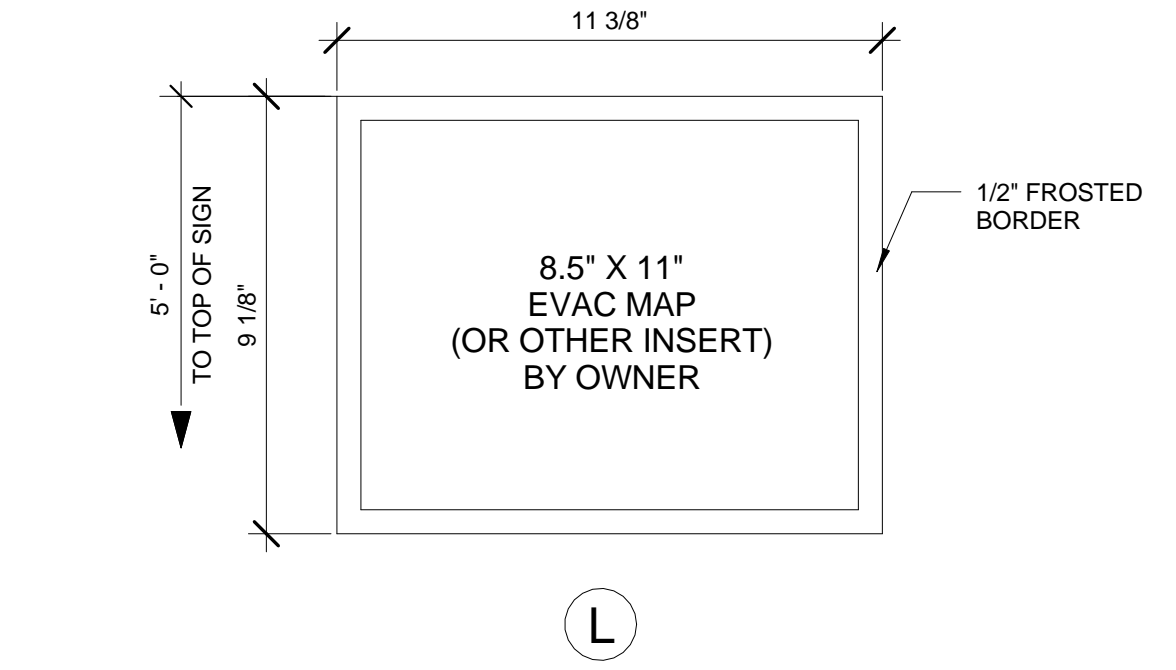
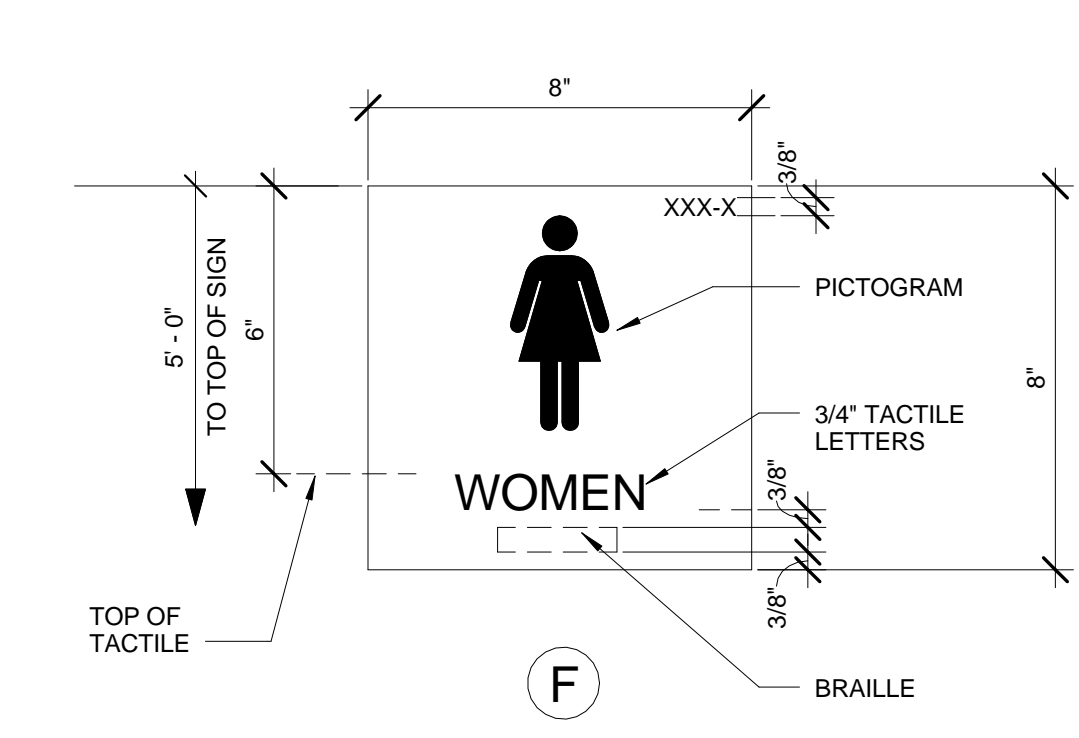
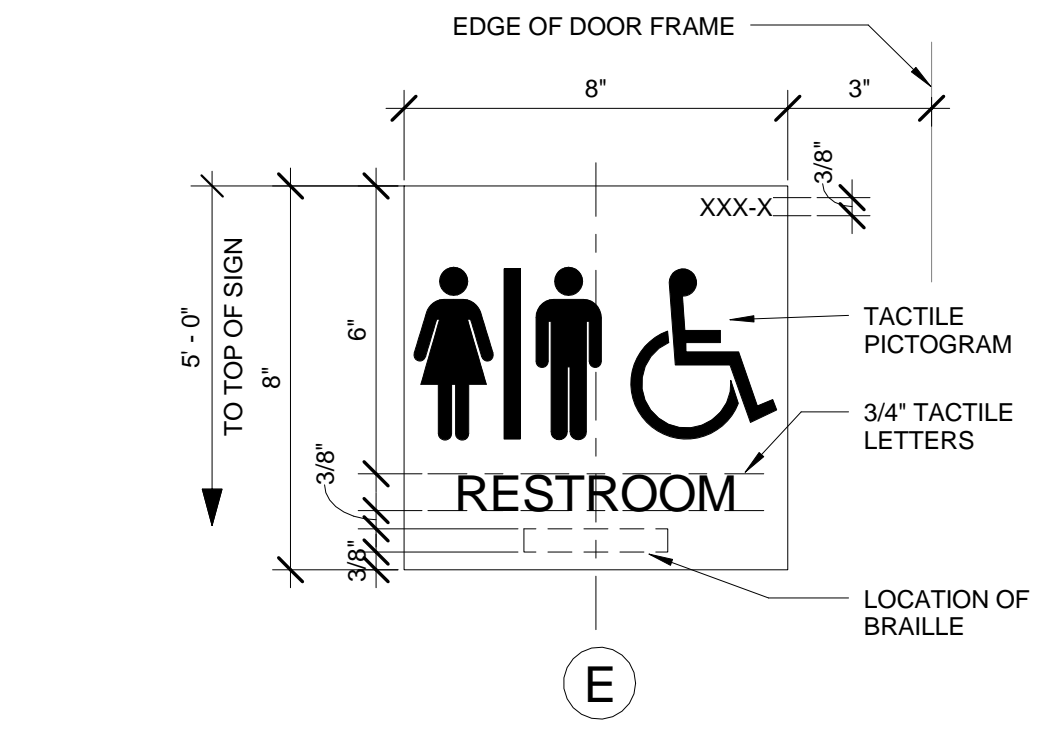
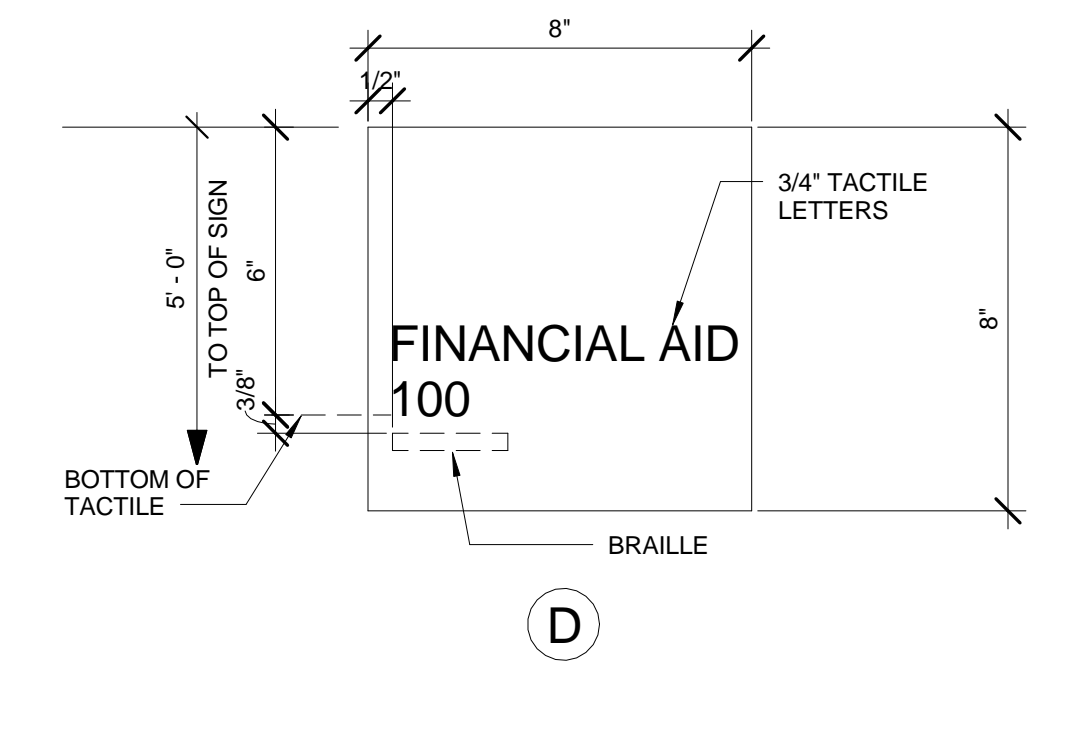
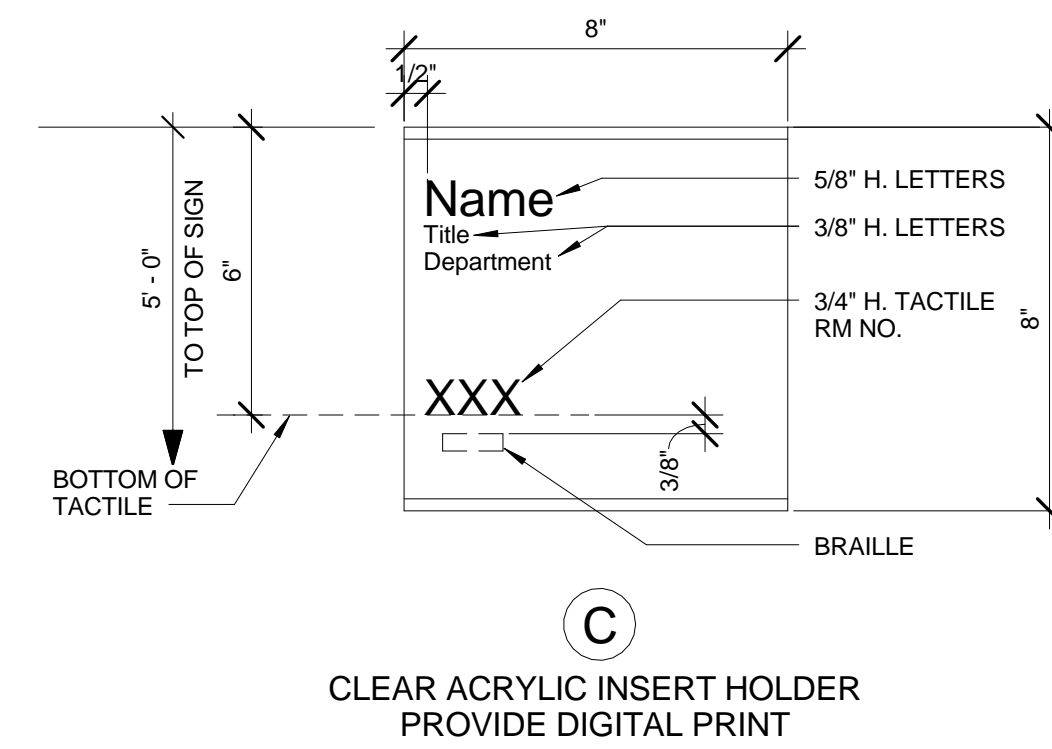
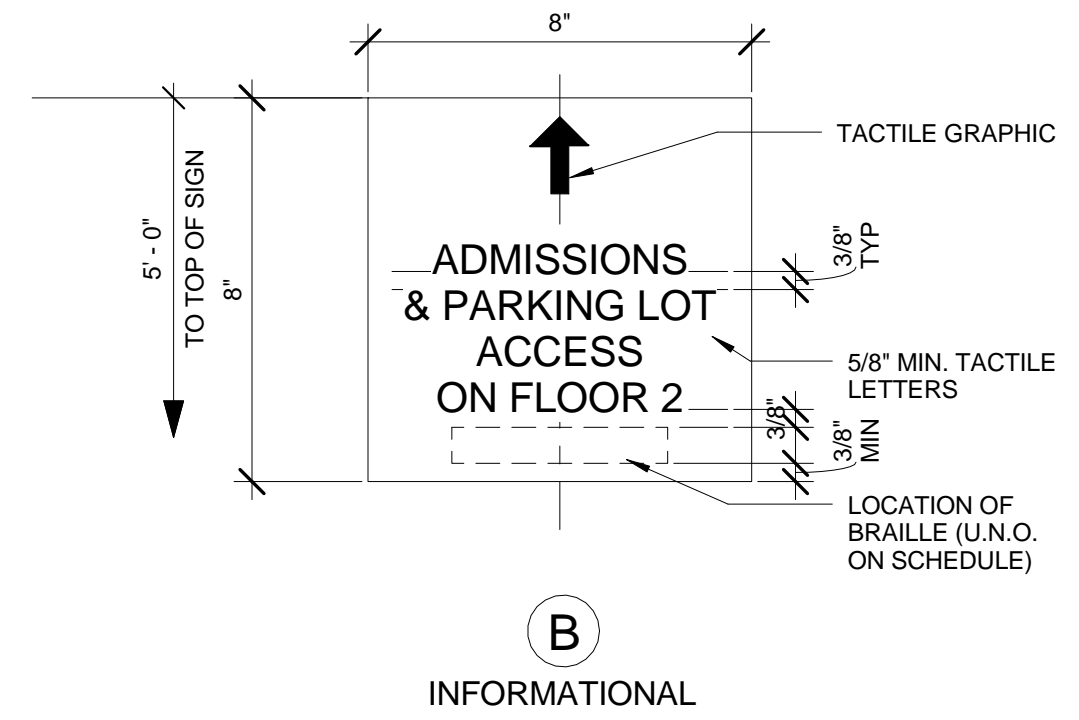
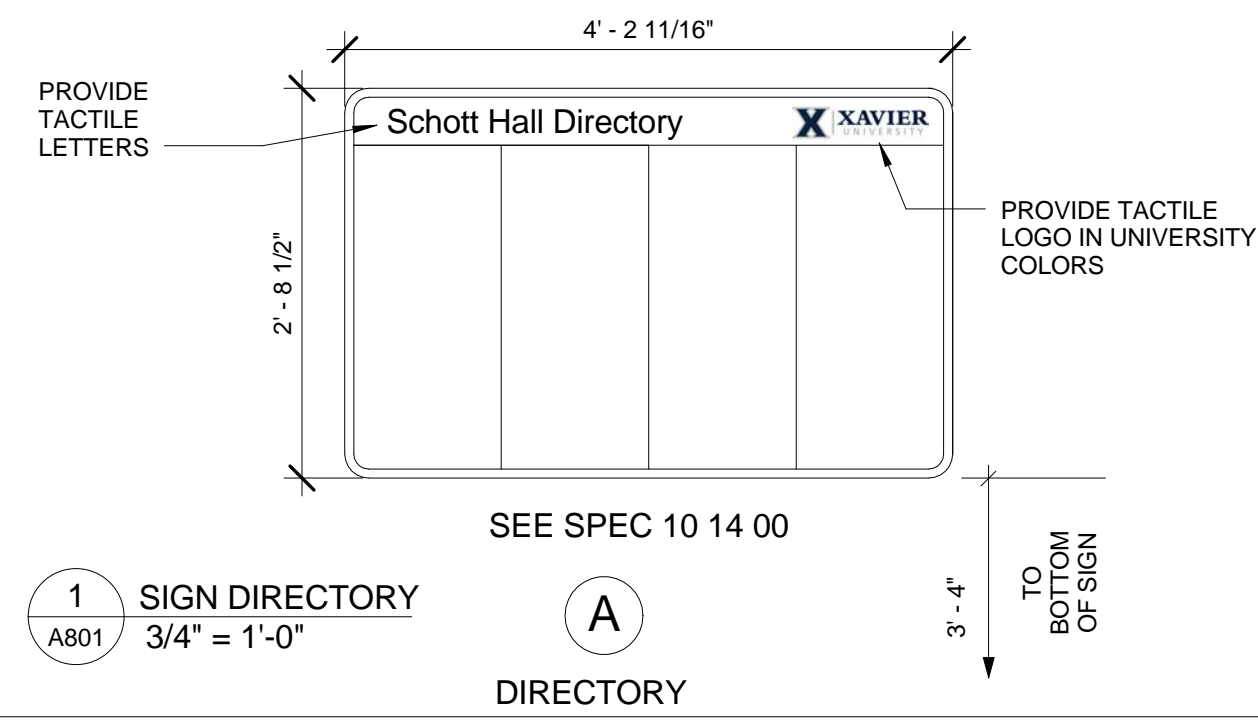
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FINISH AND FURNITURE PLANS

DATE
July 14, 2017

A702

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2 SIGN TYPES
3" = 1'-0"

ROOM SIGNAGE SCHEDULE					
SIGN TYPE	FLR PLAN NO.	FLR PLAN NAME	ROOM SIGN NO.	TEXT	INSERT
D	-	MECH	101	FIRE COMMAND CENTER	
J	100	ENTRANCE	-	EXIT	
P	100A	CORRIDOR	-	NO EXIT	
B	100B	CORR	-	ACCESSIBLE RESTROOM AND BABY CHANGING TABLE (ARROW POINTING TOWARD THE RIGHT)	
D, J	100C	CORRIDOR	101	FINANCIAL AID, EXIT	
F, G	100D	1ST FLR WAITING	-	PICTOGRAM MAN / PICTOGRAM WOMAN	
F	100F	MEN	102-M	MEN	
F	100G	WOMEN	102-W	WOMEN	
C	101	OFFICE	112		Lauren Cobble
C	102	OFFICE	111		Krista Warner
C	103	OFFICE	110		Donna Salak
C	105	OFFICE	109		Christi Gibbs
C	106	OFFICE	108		Emily Augustin
C	107	OFFICE	107		Kris Killen
C	108	OFFICE	106		Christine Sisson
C	109	OFFICE	105		Mary Beth Asbach
C	110A	OFFICE	104		Chloe Storm
C	110B	OFFICE	103		Tim Wilmes
C	110C	OFFICE	113		Sarah Barchick
C	110D	OFFICE	114		Brian Gipson
C	110E	OFFICE	115		Spencer Rumley Veterans' Admissions Coordinator
C	112	OFFICE	102		Lindsey Steller
C	113	OFFICE	117		?
C	114	OFFICE	118		Fr. Benjamin Urmston, S.J., Ph.D. Director Emeritus Peace & Justice Programs
C	115	CONFERENCE	119		STUDENT WORKROOM
E	115A	RESTROOM	118-U	RESTROOM	
C	116	OFFICE	120		?
C	117	MAIL	121		MAIL
D	118A	JC	123	CUSTODIAL	
C	119A	STORAGE	122		STORAGE
D	120A	MECHANICAL	124	ELEC	
D	120B	ELEC	125	ELEC	
N	200	ENTRY			
C	200A	WAITING	201		WAITING ROOM
C	200B	OFFICE	202A		ADMISSION
C	200C	OFFICE	202B		Aaron Meis
B X 2	200D	CORR			FACULTY: PLEASE USE SIDE EXTERIOR ENTRANCE
E, B	200E	RESTROOM	202-U		
A	200G	CORRIDOR			
F, G	200J	WOMEN	206-W		
F, G	200K	MENS	216-M		
D	200M	JAN	206	CUSTODIAL	
C	201	OFFICE	202		Enrollment Management Admission Operations
C	201A	OFFICE	203A		Morgan Thompson
C	201B	OFFICE	203B		Robbie Kessler
C	202	OFFICE	204		?
C	203	OFFICE	205		Kelly Pokrywka
C	204	OFFICE	207		Erica Krasienko
C	205	OFFICE	216		Angela Sims
C	206	OFFICE	208		Chris Jordan
C	207A	OFFICE	214		Celeste Goodloe
C	207B	OFFICE	215		Mike Garcia Admission Counselor
C	208	OFFICE	209		Evan Herbert
C	209	OFFICE	213		Lauren Parcell Director of Graduate Recruiting
C	210	OFFICE	210		David Donnelly
C	211	OFFICE	212		David Justice
D	212	PRESENTATION ROOM	211		
B, L	E101	ELEV1			
B, K	E102	ELEV2			LARGE CAB (arrow left) SMALL CAB (arrow right) NO BRAILLE
L	E200	ELEV			
B, K	E201	ELEV			LARGE CAB (arrow left) SMALL CAB (arrow right) NO BRAILLE
H, M	S101	STAIR A			
I X 2	S104	STAIR D			
H, M	S201	STAIR A			
H	S203	STAIR C			EXIT STAIR C LEVEL 2
H	S204	STAIR D			EXIT STAIR D LEVEL 2

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SIGNAGE
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A801



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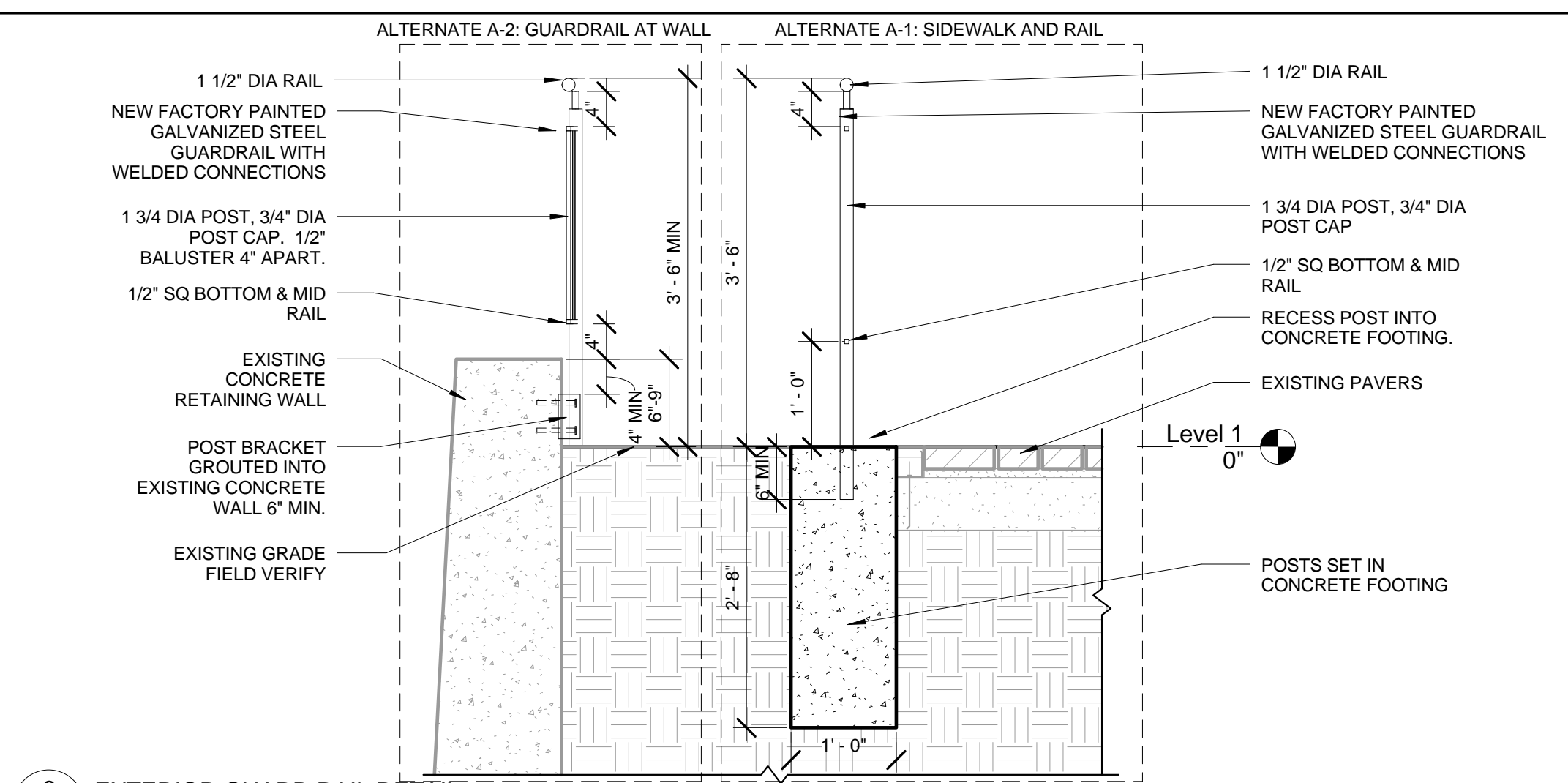
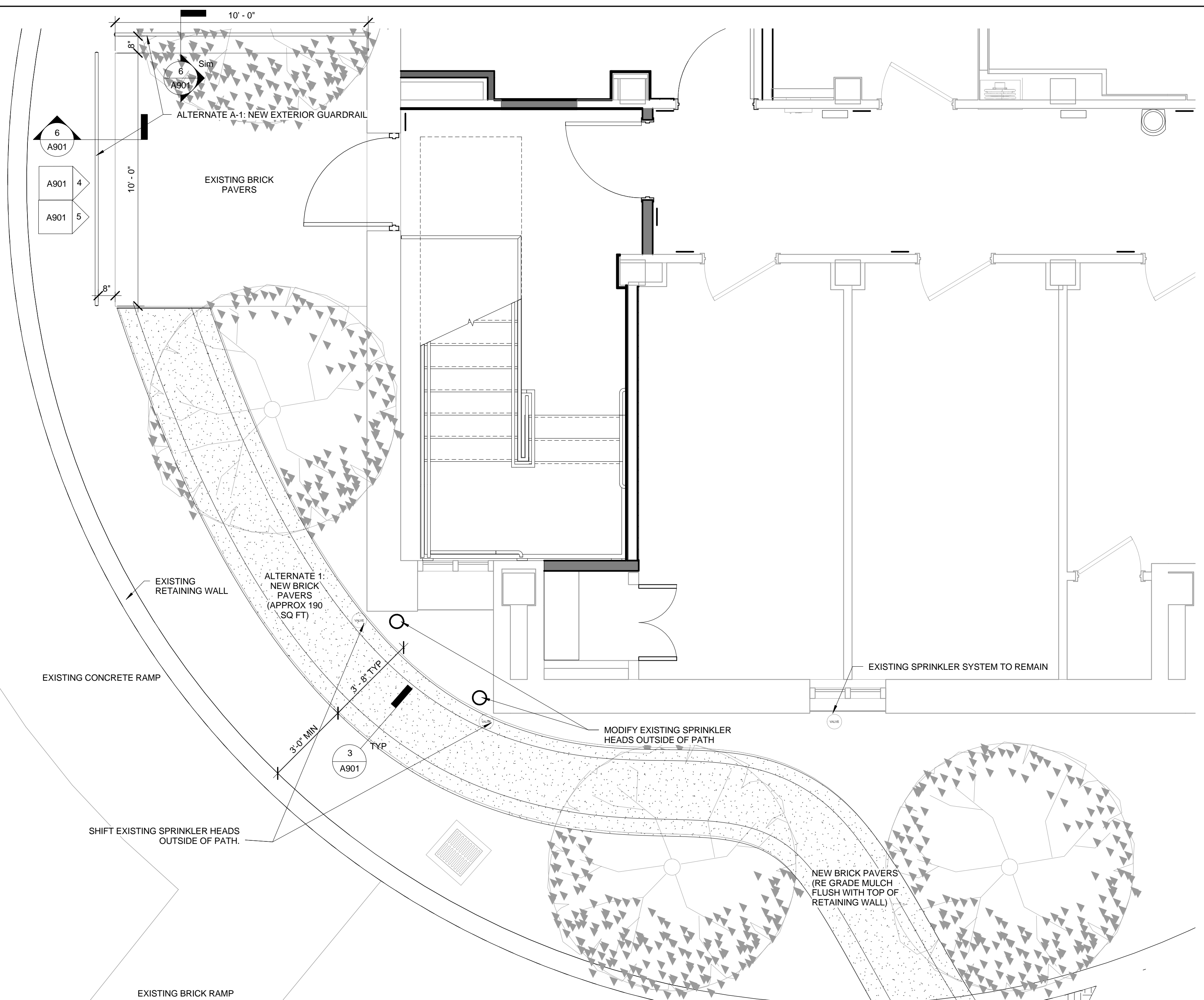


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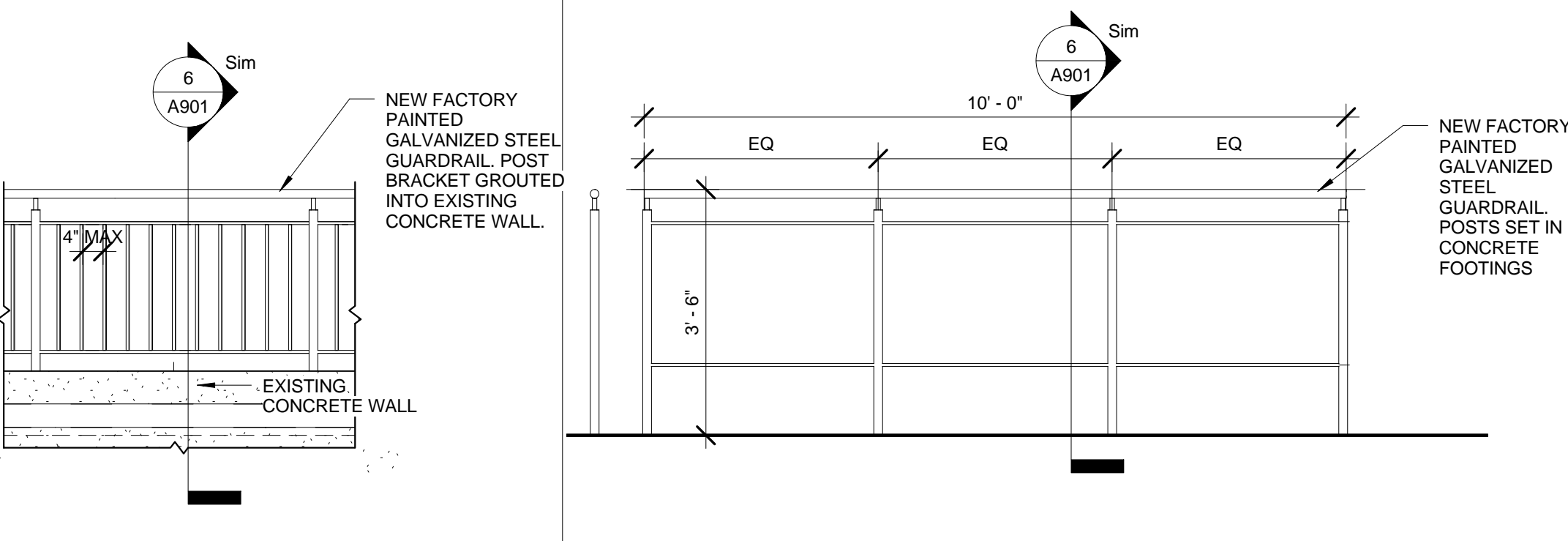
SITE PLAN

DATE
July 14, 2017

A901

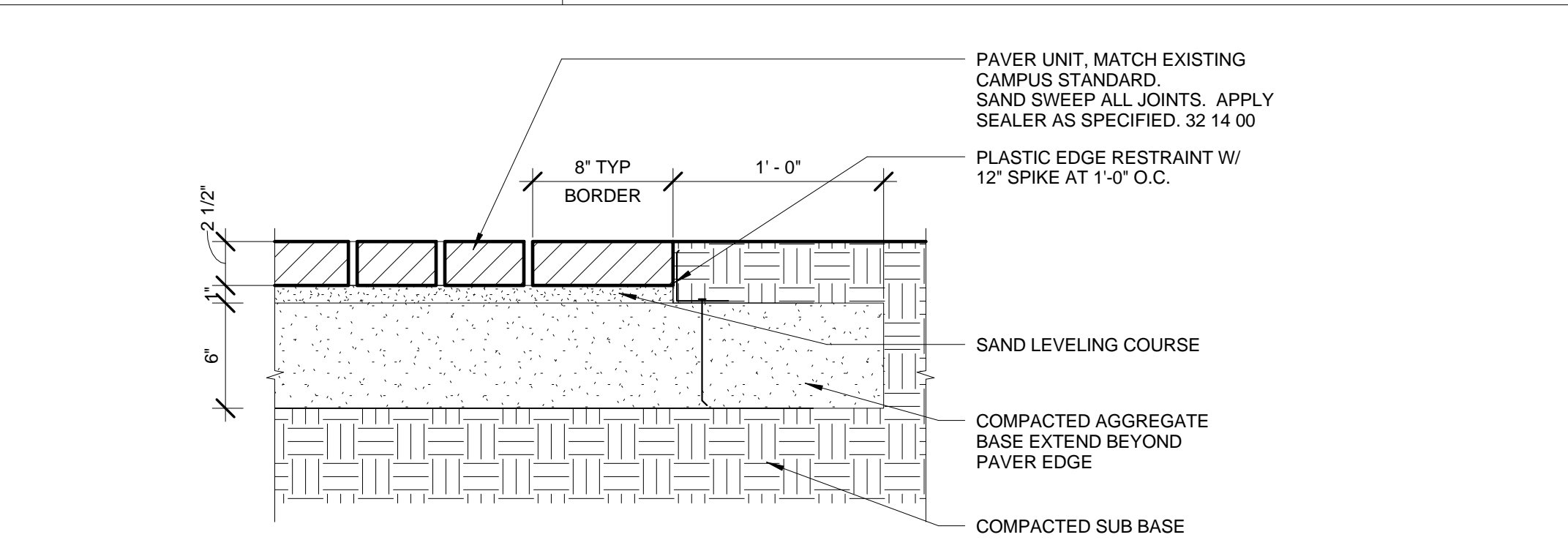


6 EXTERIOR GUARD RAIL DETAIL
A901 3/4" = 1'-0"



5 ALTERNATE A-2 - ELEVATION
A901 1/2" = 1'-0"

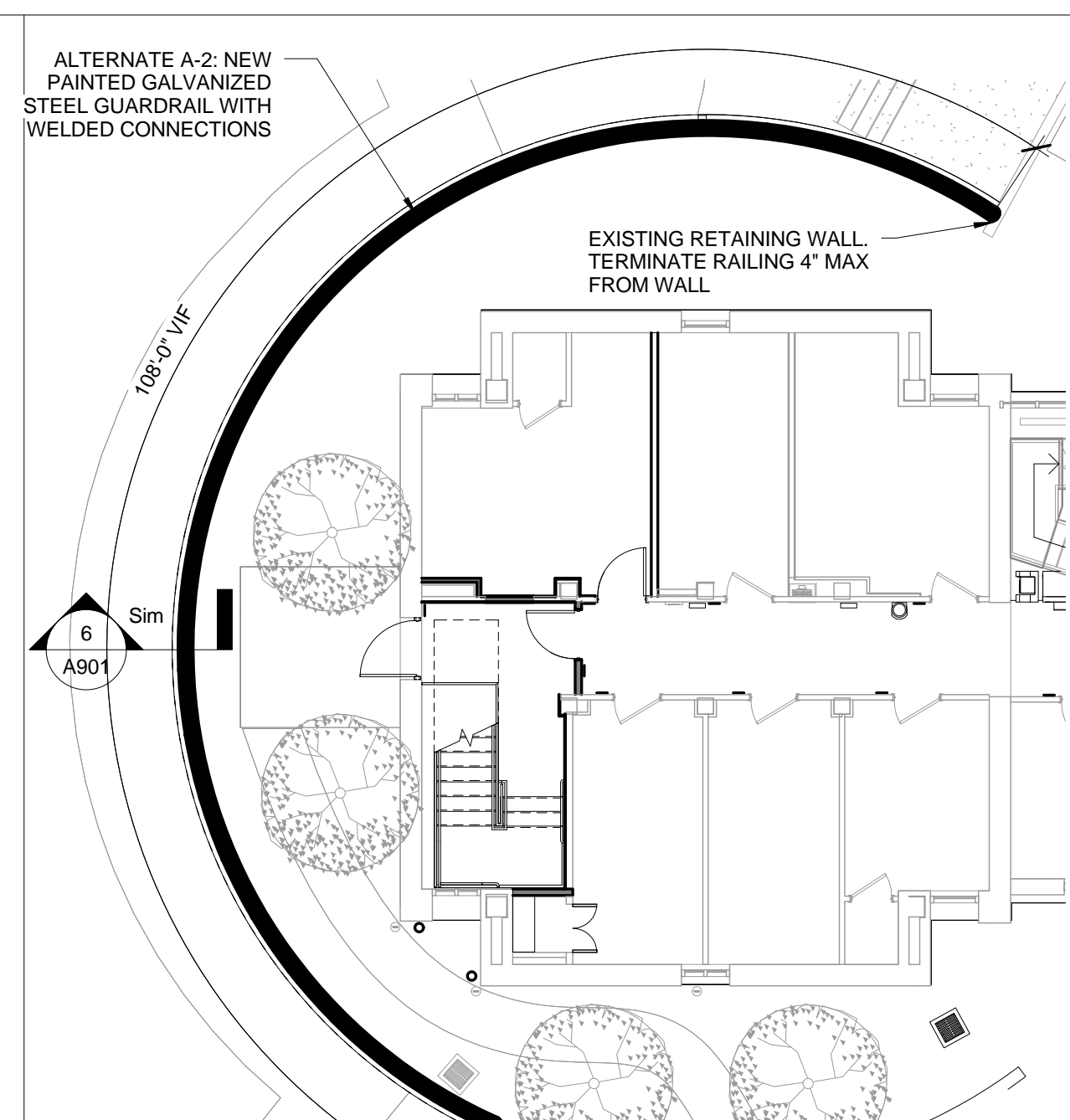
4 ALTERNATE A-1 - ELEVATION
A901 1/2" = 1'-0"



3 ALTERNATE A-1 - PAVER DETAIL
A901 1 1/2" = 1'-0"



ALTERNATE 1 - TYPICAL PAVER PATTERN



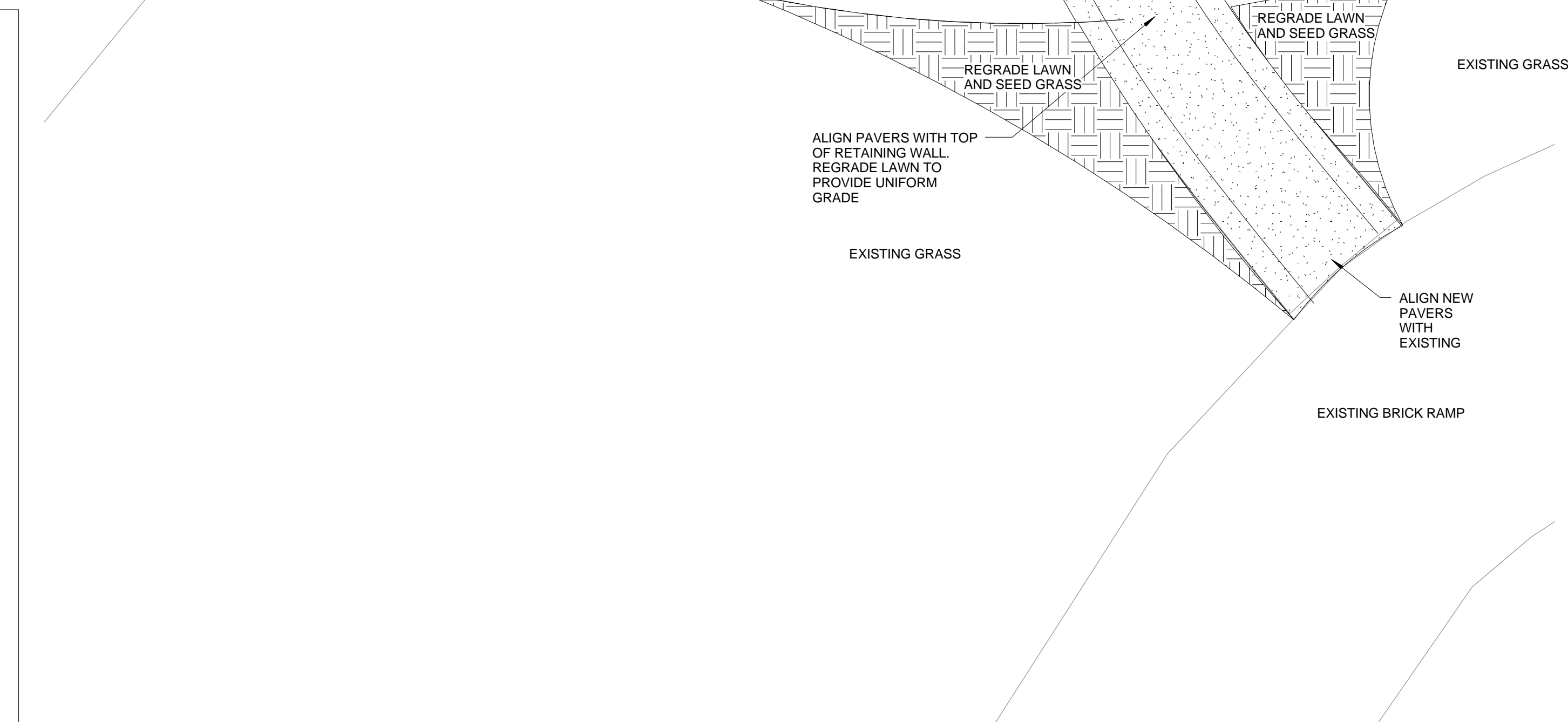
2 ALTERNATE A-2 - SITE PLAN
A901 1" = 10'-0"

EXTERIOR ALTERNATES

BASE BID:
- NO WORK

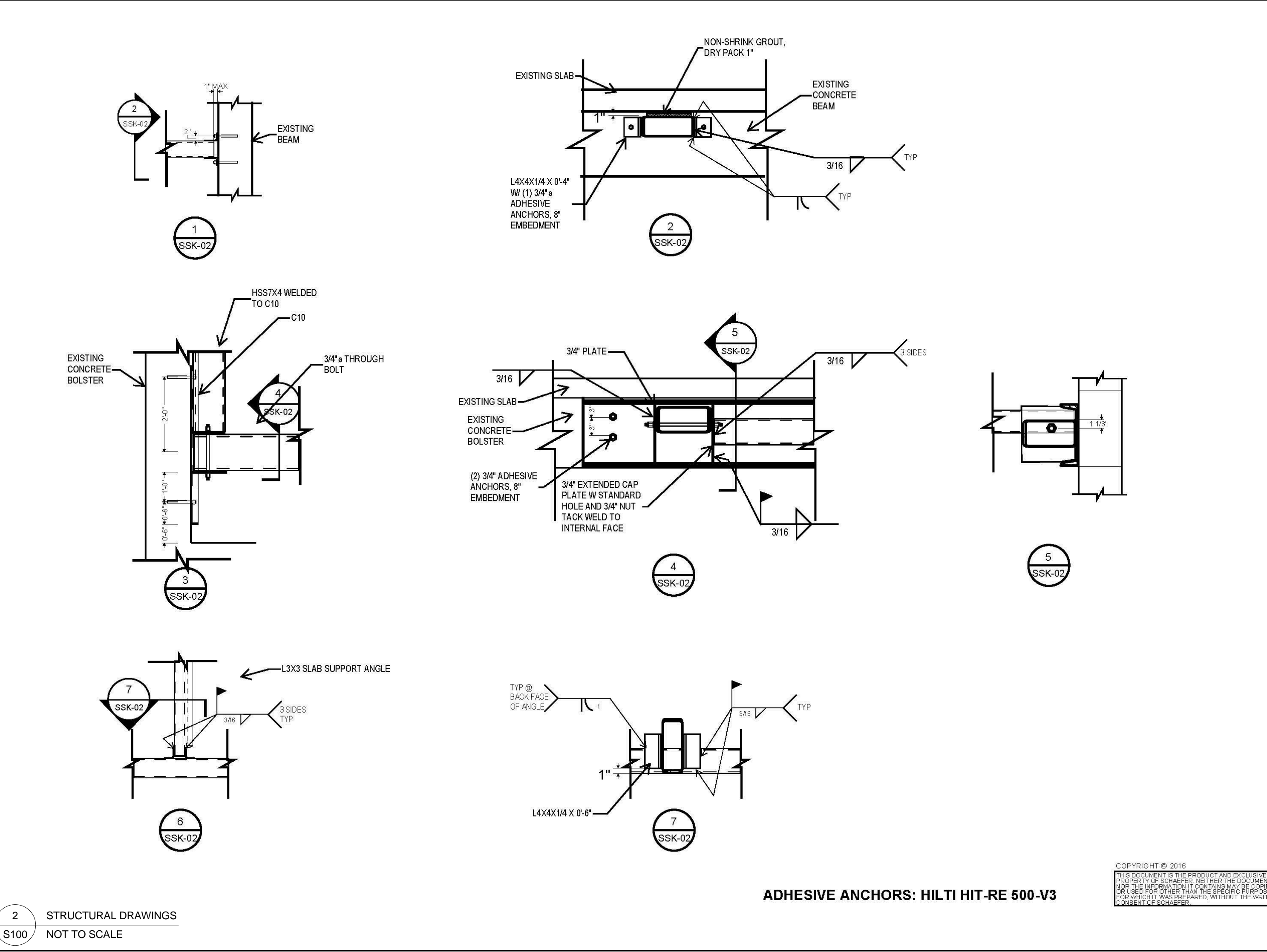
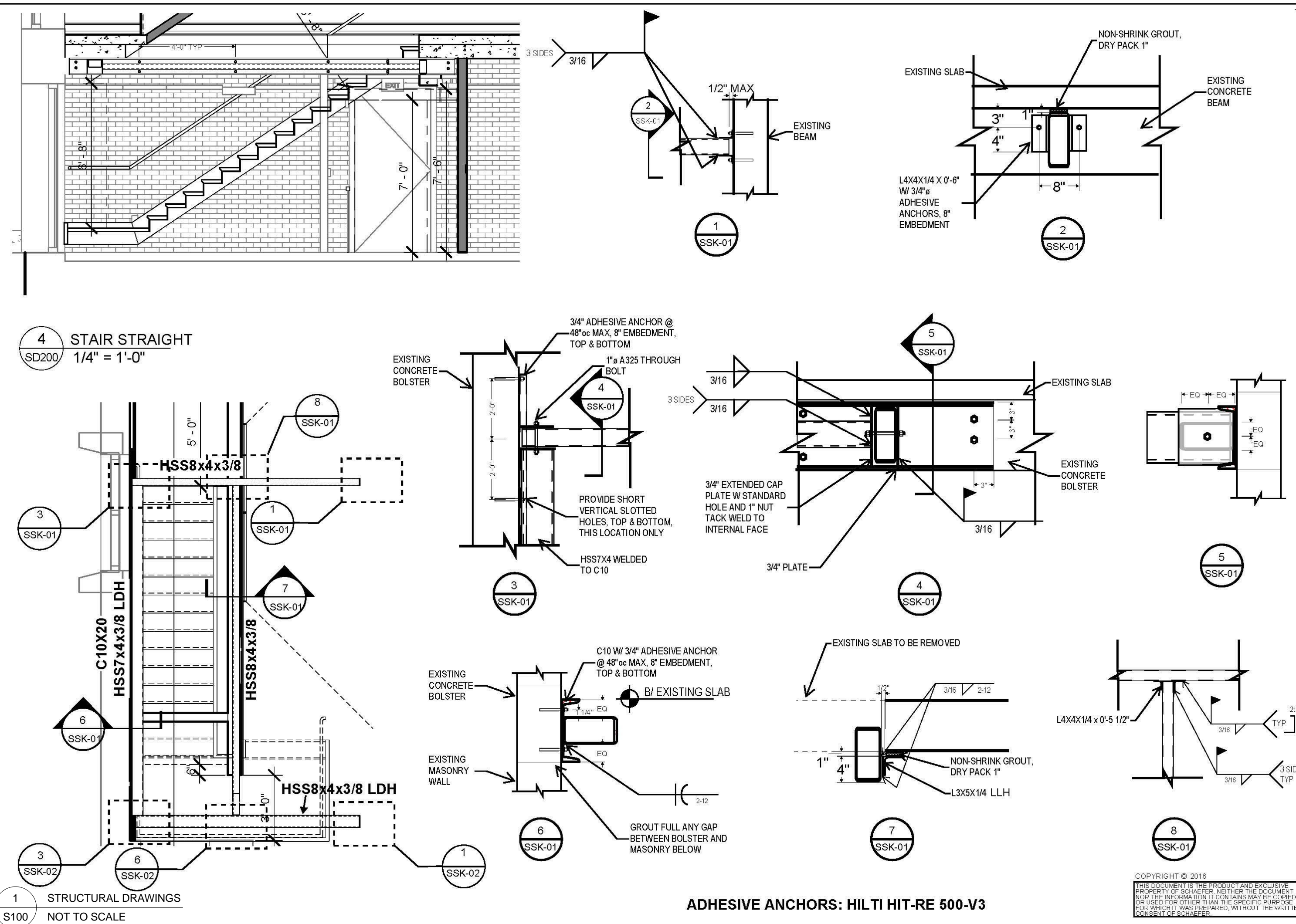
ALTERNATE A-1:
(ADD ALTERNATE)
- NEW PAINTED GALVANIZED STEEL GUARDRAILS WITH WELDED CONNECTION AT EXISTING CONCRETE PAD
- NEW BRICK PAVER SIDEWALK
- MODIFY EXISTING SPRINKLER SYSTEM

ALTERNATE A-2:
(ADD ALTERNATE)
- APPROX 108'-0" OF NEW PAINTED GALVANIZED STEEL GUARDRAILS WITH WELDED CONNECTIONS AT EXISTING CONCRETE SITE WALL



1 ALTERNATE 1 - SITE PLAN
A901 3/8" = 1'-0"

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STRUCTURAL NOTES

ADHESIVE ANCHORS

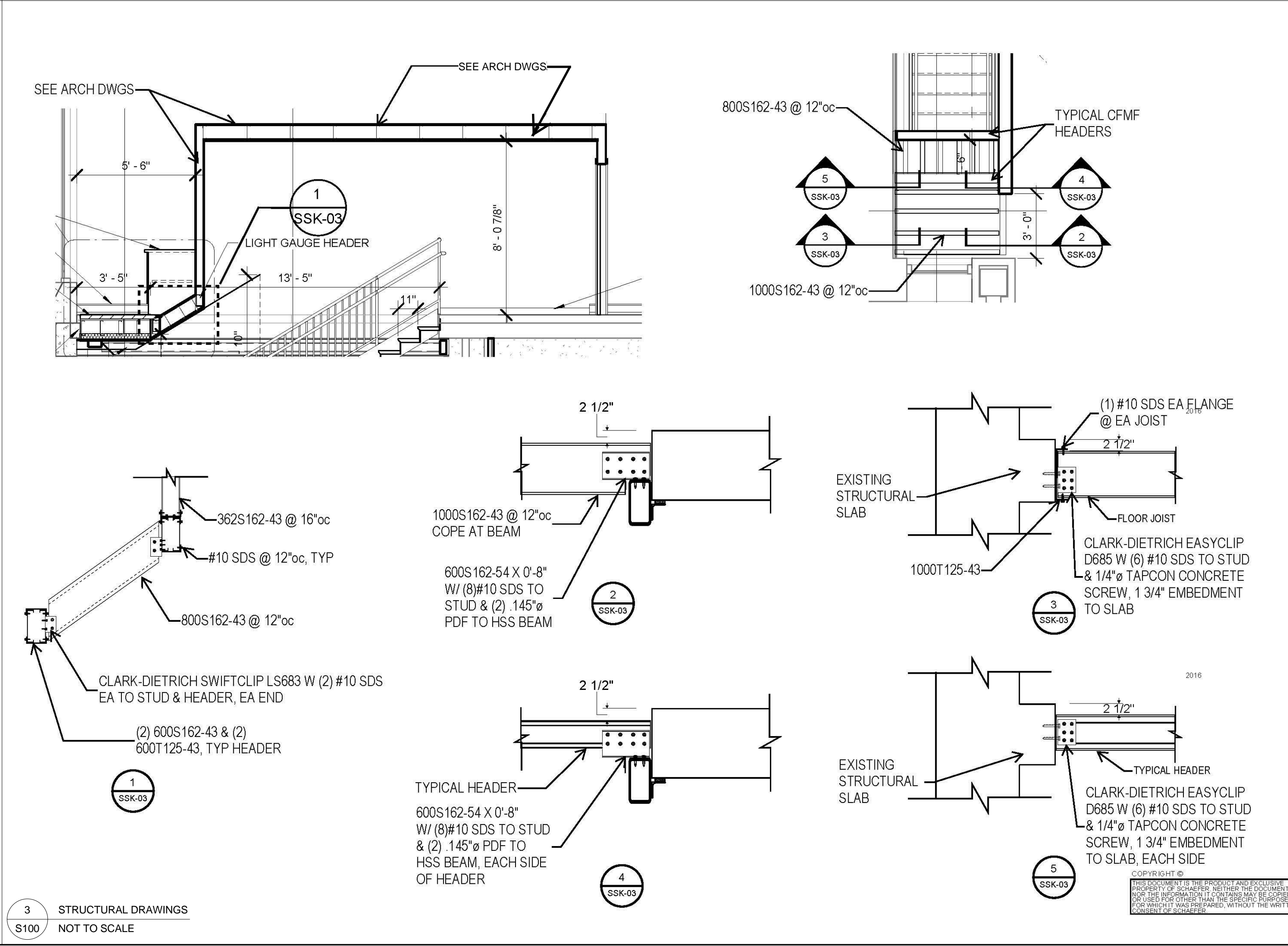
- ANCHORAGE TO CONCRETE: HILTI "HIT-RE 500-V3" EPOXY (ICC ESR-3814). INSTALL PER ICC REPORT AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA AC 308 FOR USE IN CRACKED CONCRETE MAY BE CONSIDERED; SUBMIT EVALUATION REPORT DEMONSTRATING COMPLIANCE WITH GOVERNING CODE PRIOR TO INSTALLATION.
 - STEEL THREADED ROD ANCHORS SHALL BE HILTI "HAS-E" STANDARD RODS. SIZE AND EMBEDMENT SHALL BE AS INDICATED ON DRAWINGS.
- CONTRACTOR SHALL VERIFY THAT THE SHELF LIFE OF THE ADHESIVE HAS NOT BEEN EXCEEDED ON THE DATE OF INSTALLATION.
- TESTING AND INSPECTION: REFER TO ICC REPORT(S) AND SPECIAL INSPECTION TABLE FOR TESTING AND INSPECTION REQUIREMENTS. WHERE TESTING IS REQUIRED, ANCHORS SHALL BE TESTED TO THE FOLLOWING LOADS UNLESS OTHERWISE INDICATED.
- FOR CONNECTIONS TO EXISTING REINFORCED CONCRETE OR MASONRY, VERIFY THE LOCATIONS OF THE EXISTING REINFORCING BARS USING A REBAR DETECTOR, PRIOR TO DRILLING. NOTIFY THE ENGINEER PRIOR TO INSTALLATION IF ANCHOR LOCATIONS CONFLICT WITH EXISTING REINFORCING BARS. DO NOT DRILL THROUGH EXISTING REINFORCING BARS.

STRUCTURAL STEEL

- ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS FOR "DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION.
- STRUCTURAL STEEL FABRICATOR SHALL PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM, AND SHALL BE DESIGNATED AN AISC-CERTIFIED PLANT.
- WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS D1.1:2010).
- MATERIALS:
 - PLATES AND ROLLED SHAPES OTHER THAN W-SHAPES, UNLESS NOTED: ASTM A36.
 - TUBULAR SHAPES (HSS SQUARE AND RECTANGULAR): ASTM A500, GRADE B.
 - BOLTS: ASTM A325-N, 3/4" DIAMETER UNLESS NOTED.
 - ANCHOR RODS: ASTM A36 OR ASTM F1554, GRADE 36.
 - FIELD WELDS: AWS E70XX, LOW HYDROGEN ELECTRODES.
 - COLD FORMED STRUCTURAL SHAPES: ASTM A1011 Fy = 50 KSI MINIMUM SECTION PROPERTIES BASED ON SECTIONS MANUFACTURED BY MCCI METAL ROOF AND WALL SYSTEMS.
 - NON-SHRINK NON-METALLIC GROUT: CRD-C-621 AND ASTM C1107 FOR INTERIOR AND EXTERIOR APPLICATIONS, FLUID TYPE.
 - FOR GROUT IN EXTERIOR APPLICATIONS, SUCH AS GUARDRAIL ANCHORAGE, LIMIT GYPSUM CONTENT TO 1.5% MAXIMUM.
- PAINT AND PROTECTION:
 - STRUCTURAL STEEL UNLESS NOTED: PREPARE STEEL SURFACES PER SSPC-SP3 "POWER TOOL CLEANING" AND PAINT WITH FABRICATOR'S STANDARD PRIME COAT, SUCH AS TNEMEC 10-1009. TOUCH UP AFTER ERECTION.
 - MEMBERS TO RECEIVE SPRAY-ON FIREPROOFING: NO PAINT.
- CONTRACTOR SHALL SUBMIT ERECTION AND SHOP DRAWINGS FOR REVIEW BY ENGINEER. FABRICATION SHALL NOT BEGIN PRIOR TO SHOP DRAWING APPROVAL BY ENGINEER.

SPECIAL INSPECTIONS FOR STRUCTURAL WORK

- THE SCHEDULE OF SPECIAL INSPECTIONS FOR STRUCTURAL WORK HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 106.1 AND 1704 OF THE REFERENCED BUILDING CODE, AND IS AVAILABLE UPON REQUEST. SEE OTHERS FOR SPECIAL INSPECTION REQUIREMENTS FOR NON-STRUCTURAL WORK. THE SPECIAL INSPECTOR(S) SHALL COORDINATE WITH THE OWNER, CONTRACTORS, AND DESIGN PROFESSIONALS AND SCHEDULE ALL INSPECTIONS ACCORDINGLY.



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No.	Description	Date
1	BID & PERMIT	07/14/17

STATE OF OHIO
ROBERT C. ROGERS
E-56226
REGISTERED PROFESSIONAL ENGINEER
07/14/17

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CHECKED BY: RR

STRUCTURAL DRAWINGS

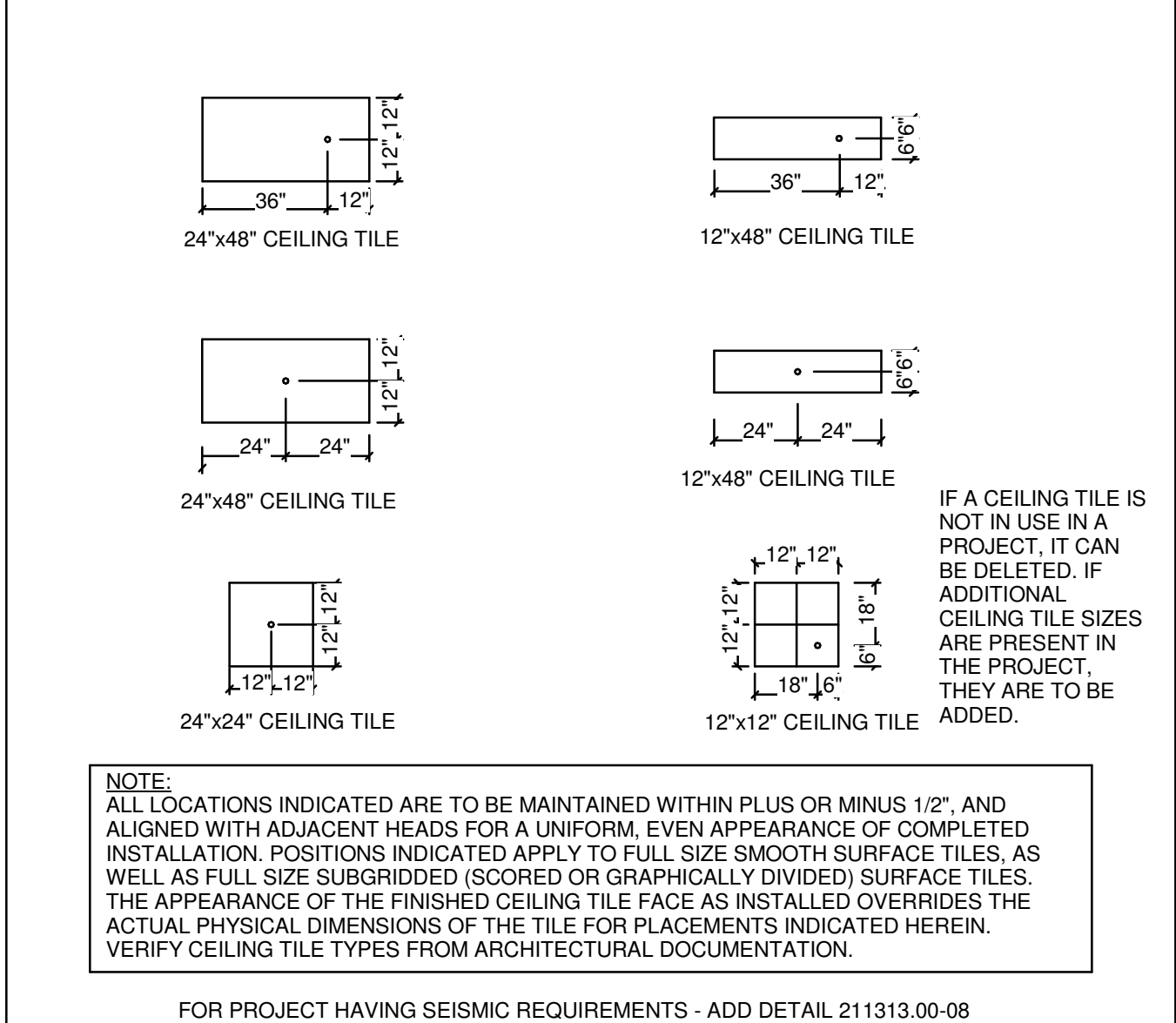
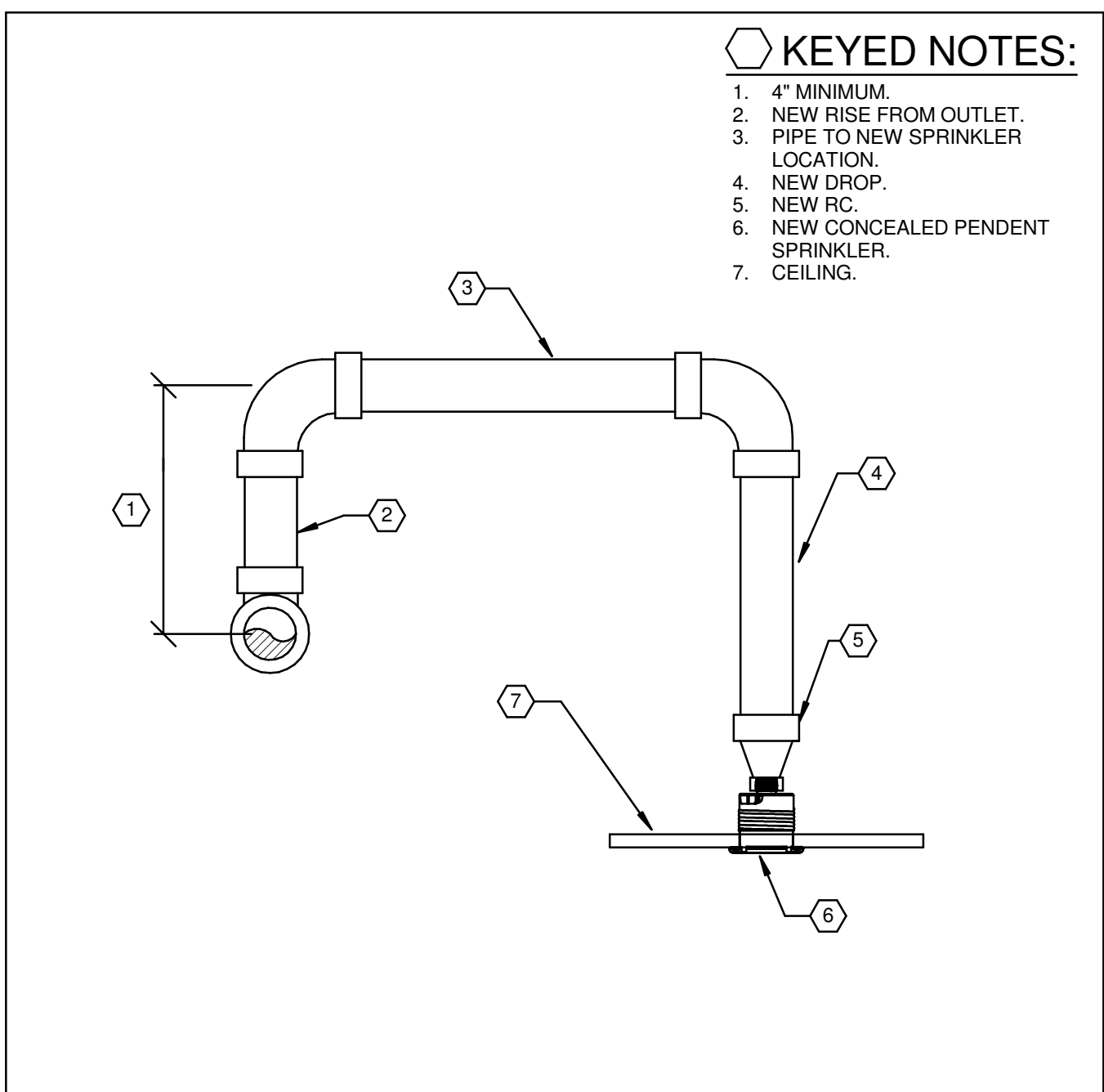
DATE
July 14, 2017

S100

MARK	Description	Volts	Phase	HP	MC INST	MC TYPE	MC WIRE
AC1	RISER MOUNTED AIR COMPRESSOR	120	1	1/2	EC	EC	EC

GENERAL FIRE PROTECTION NOTES

A. RENOVATED AREAS SHALL BE 100% SPRINKLERED.
 B. COORDINATE CLOSELY WITH OTHER TRADES. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
 C. ALL SPRINKLER WORK SHALL BE INSTALLED PER NFPA 13, BUILDING CODE, AND OWNERS INSURANCE CARRIER REQUIREMENTS.
 D. MAKE PROVISIONS FOR DRAINING AND PROVIDE INSPECTOR TESTS AS REQUIRED. ALL DRAIN PIPING SHALL BE PIPED TO OUTSIDE OR INDIRECTLY TO SINK OR FLOOR DRAIN.
 E. COORDINATE EXACT LOCATION OF PIPING AND HEADS WITH REFLECTED CEILING PLANS, MECHANICAL AND ELECTRICAL DRAWINGS.
 F. ALL HOSE VALVES AND FIRE DEPARTMENT CONNECTIONS SHALL MATCH LOCAL FIRE DEPARTMENT THREADS.
 G. ALL FIRE SUPPRESSION WORK SHALL BE PERFORMED BY A FIRE PROTECTION CONTRACTOR LICENSED IN THE STATE OF OHIO.
 H. ALL SPRINKLER HEADS SHALL BE LOCATED IN CENTER OF CEILING TILE. PLUS OR MINUS ONE HALF INCH.
 I. SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING FOR SPRINKLER WORK IN ALL AREAS OF BUILDING. REFER TO SPECIFICATIONS.
 J. ALL ARMORER PIPING RELATED TO SPRINKLERS TO BE DEMOLISHED, SHALL HAVE ALL PIPING REMOVED BACK TO THE OUTLET ON THE BRANCHLINE.
 K. WHEN MODIFYING EXISTING SPRINKLER SYSTEMS, SPRINKLER CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE EXISTING SPRINKLER ZONES. COORDINATE WITH NEW FIRE RATING PLANS AS NEEDED.
 L. FIRE PROTECTION CONTRACTOR IS REQUIRED TO RAISE/REWORK ALL EXISTING PIPING AS NEEDED TO ACCOMMODATE NEW CEILING TYPES AND HIGHER CEILING HEIGHTS AS APPLICABLE.



FIRE PROTECTION LEGEND	
SYMBOL	DESCRIPTION
PIPING LINE TYPES	
	WORK SHOWN FADED INDICATES EXISTING WORK TO REMAIN OR NEW WORK BY OTHERS AS APPLICABLE
	WORK SHOWN BOLD-DASHED INDICATES SELECTIVE DEMOLITION WORK
	WORK SHOWN BOLD-CONTINUOUS INDICATES NEW WORK
	WET FIRE PROTECTION PIPING
	DRY FIRE PROTECTION PIPING
	PRE-ACTION FIRE PROTECTION PIPING
	PIPING WITH ELECTRICAL HEAT TRACE
SPRINKLER HEAD TYPES	
N, X, D	SPRINKLER TAG (NEW, EXISTING TO REMAIN, DEMOLITION)
	CONCEALED WHITE PLATE SPRINKLER
	RECESSED PENDANT SPRINKLER
	BRASS UPRIGHT SPRINKLER
	SIDEWALL SPRINKLER
	SIDEWALL CONCEALED SPRINKLER
	MISCELLANEOUS SPRINKLER
	ATTIC SPRINKLER HEAD
PIPING ACCESSORIES	
	FIRE PROTECTION SYSTEM STANDPIPE WITH HOSE VALVES
	CONTROL VALVE WITH TAMPER SWITCH
	FLOW SWITCH
	AUTOMATIC PRESSURE SWITCH
	SUPERVISORY PRESSURE SWITCH
	ALARM CHECK VALVE WITH FLOW SWITCH
	POST-INDICATOR VALVE
	DOUBLE CHECK DETECTOR ASSEMBLY
	CHECK VALVE
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	FIRE DEPARTMENT VALVE
HAZARD OCCUPANCY	
	LIGHT HAZARD OCCUPANCY
	ORDINARY HAZARD OCCUPANCY GROUP 1
	ORDINARY HAZARD OCCUPANCY GROUP 2
	EXTRA HAZARD OCCUPANCY GROUP 1
	EXTRA HAZARD OCCUPANCY GROUP 2
MISCELLANEOUS	
	CONNECT TO EXISTING (FIELD VERIFY EXISTING UTILITY SERVICE TYPE, PRIOR TO MAKING CONNECTION)
	FIRE EXTINGUISHER CABINET WITH HOSE VALVE
	ELECTRIC ALARM BELL
	WATER MOTOR GONG
PUMPS	
FP	FIRE PUMP
JP	JOCKEY PUMP
FPC	FIRE PUMP CONTROLLER
JPC	JOCKEY PUMP CONTROLLER
RP	RELEASING PANEL

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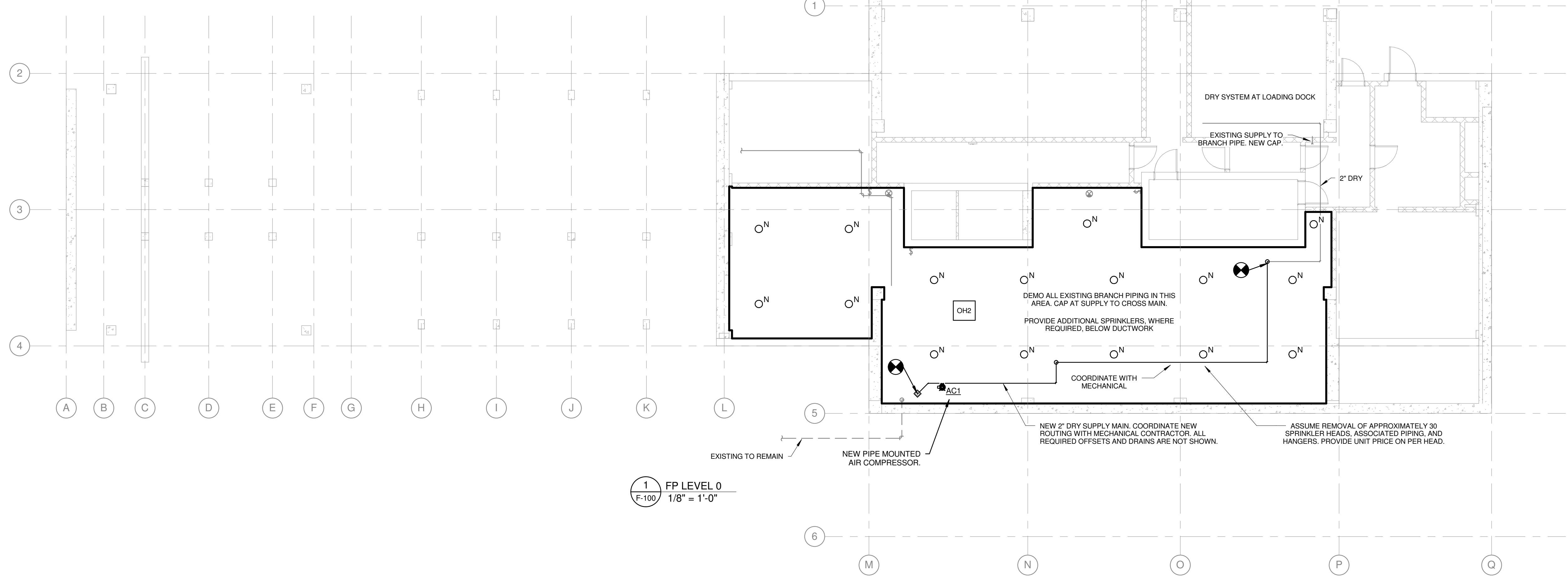
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**FIRE PROTECTION
 - LEGEND
 AND
 DETAILS**

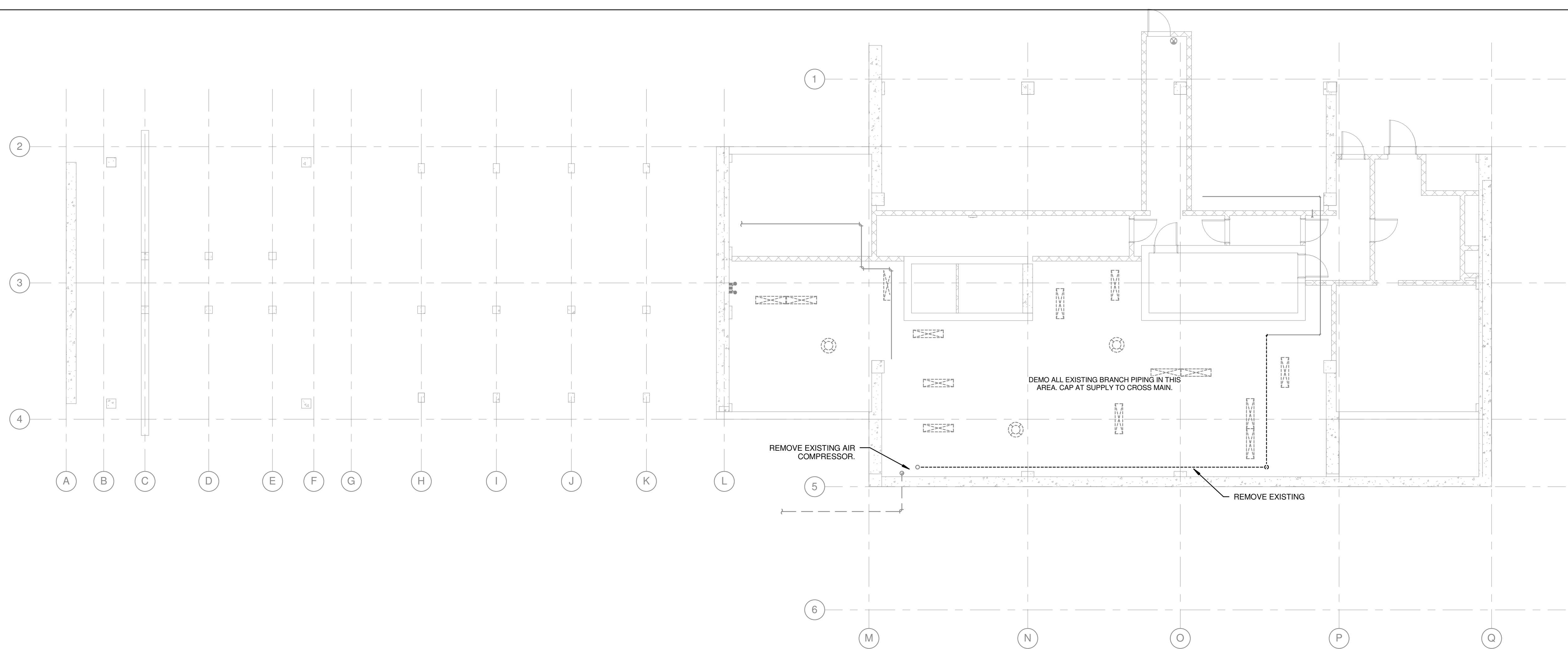
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F-001

2 FP LEVEL 0 Copy 1
F-100 1/8" = 1'-0"



1 FP LEVEL 0
F-100 1/8" = 1'-0"



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FIRE PROTECTION - DEMO & NEW - BASEMENT

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F-100

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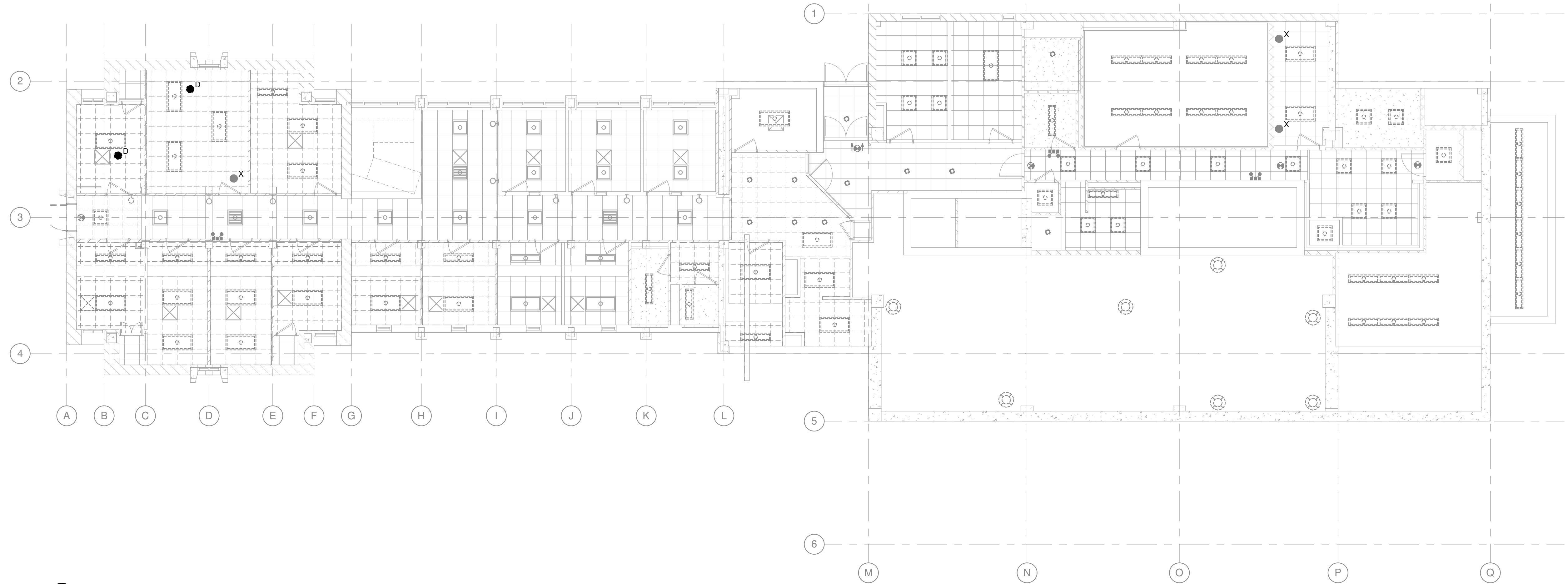


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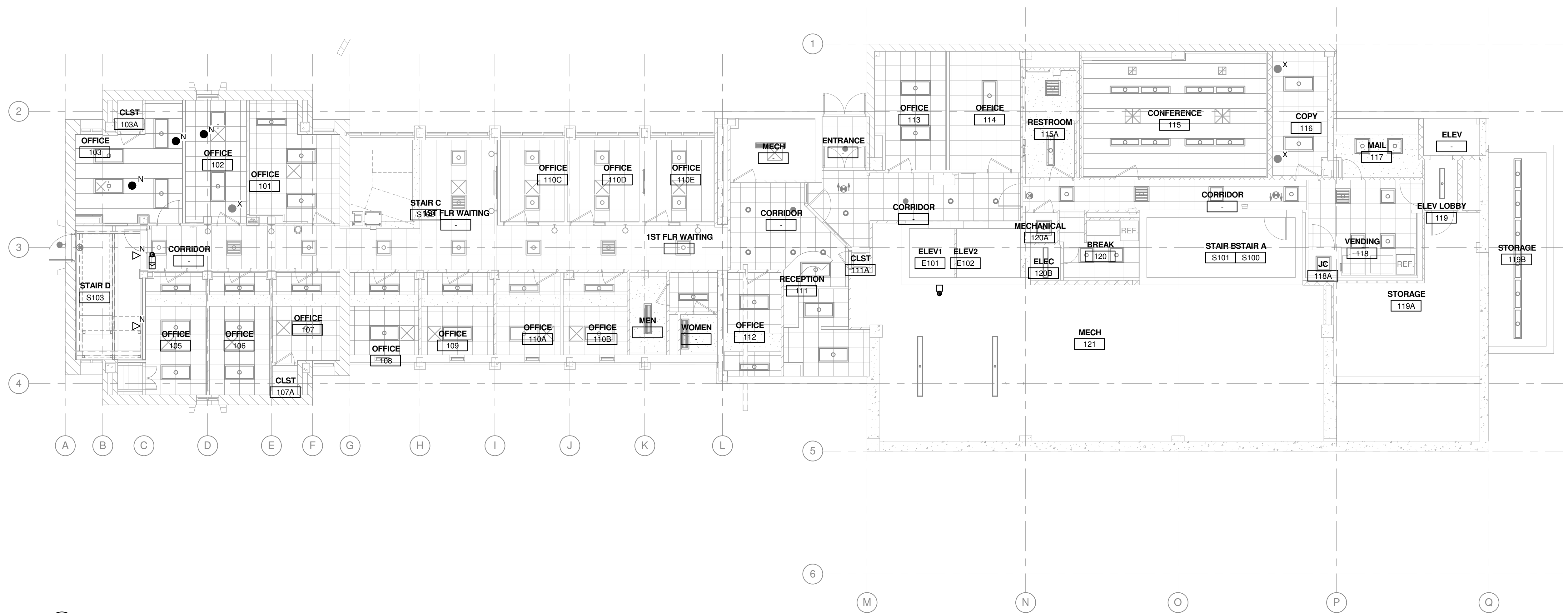
FIRE PROTECTION - DEMO & NEW - 1ST FLR

DATE
July 14, 2017

F-101



2 FIRE PROTECTION - LEVEL 1 - DEMO
F-101 1/8" = 1'-0"



1 FIRE PROTECTION - LEVEL 1 - NEW
F-101 1/8" = 1'-0"



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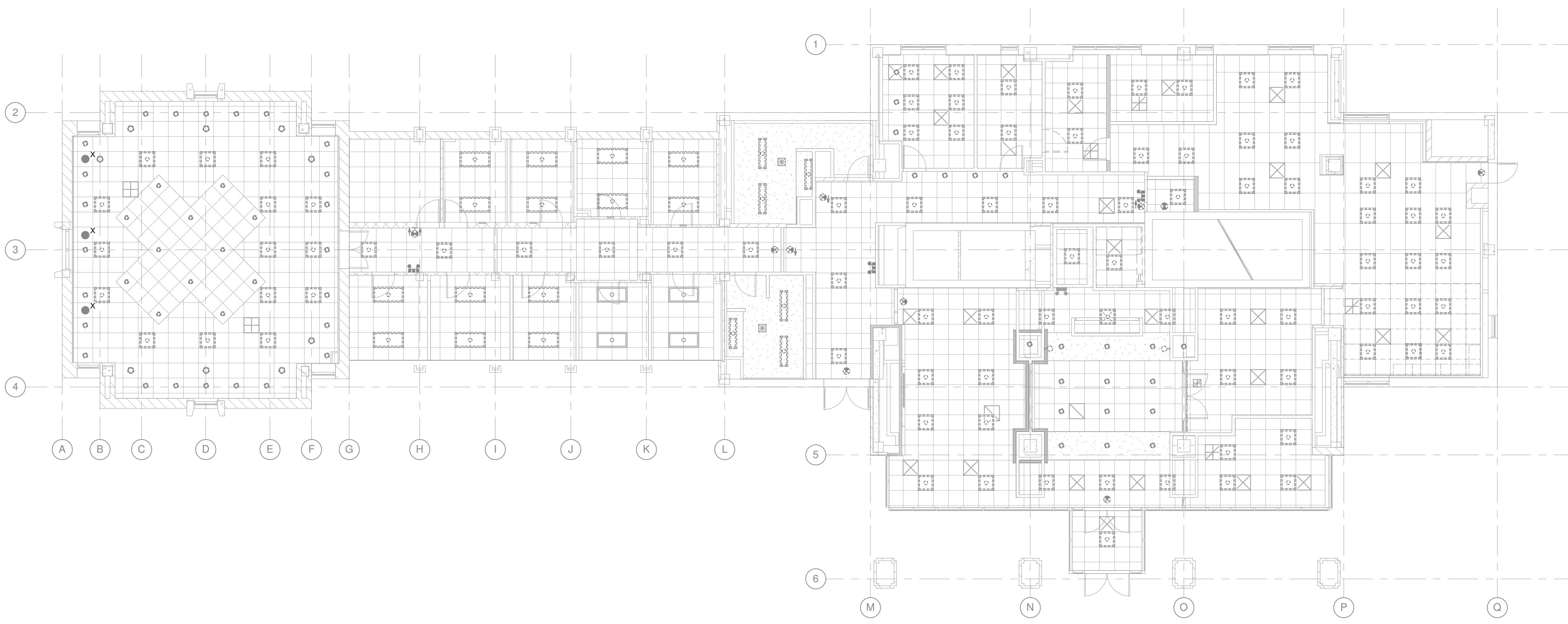
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**FIRE PROTECTION
- DEMO &
NEW - 2ND
FLR**

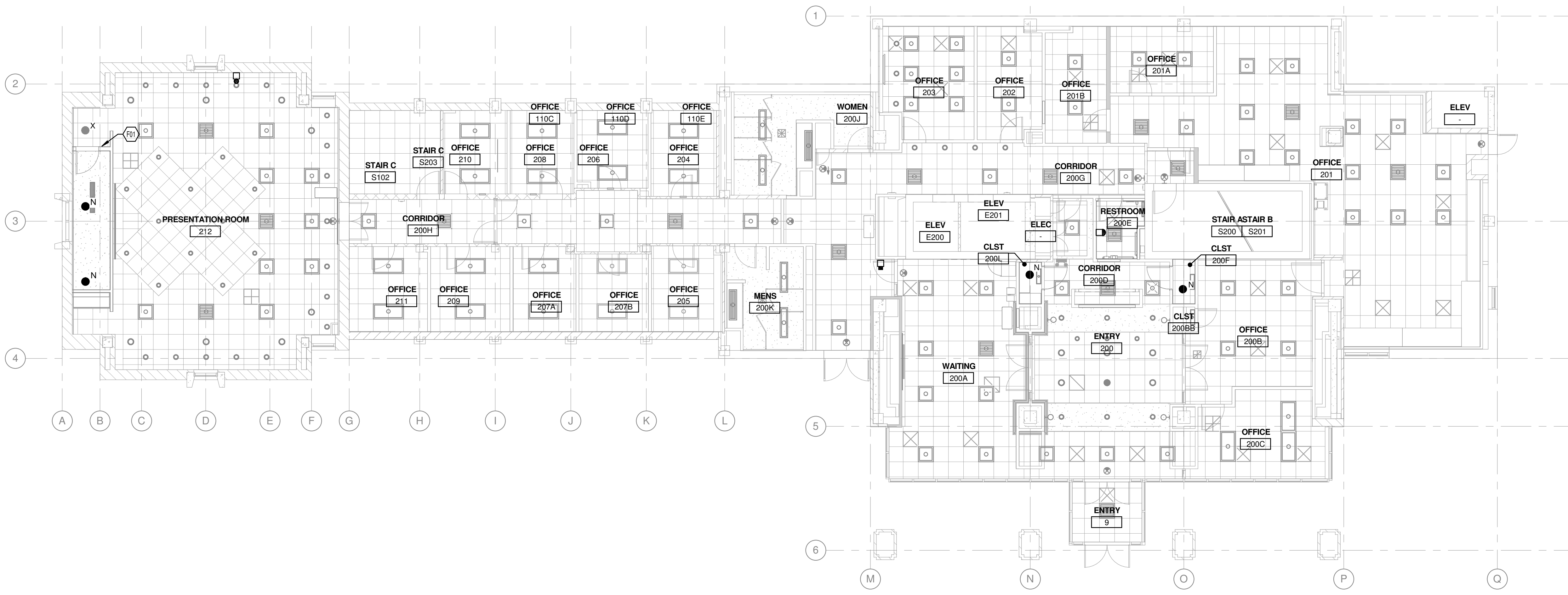
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F-102

KEYED NOTES
F01 ROUTE FIRE PROTECTION BRANCH UP FROM FLOOR BELOW IN THE 6" STUDWALL TO GAIN ACCESS TO THE TWO NEW HEADS IN THE EGRESS STAIRWELL CEILING CAP.

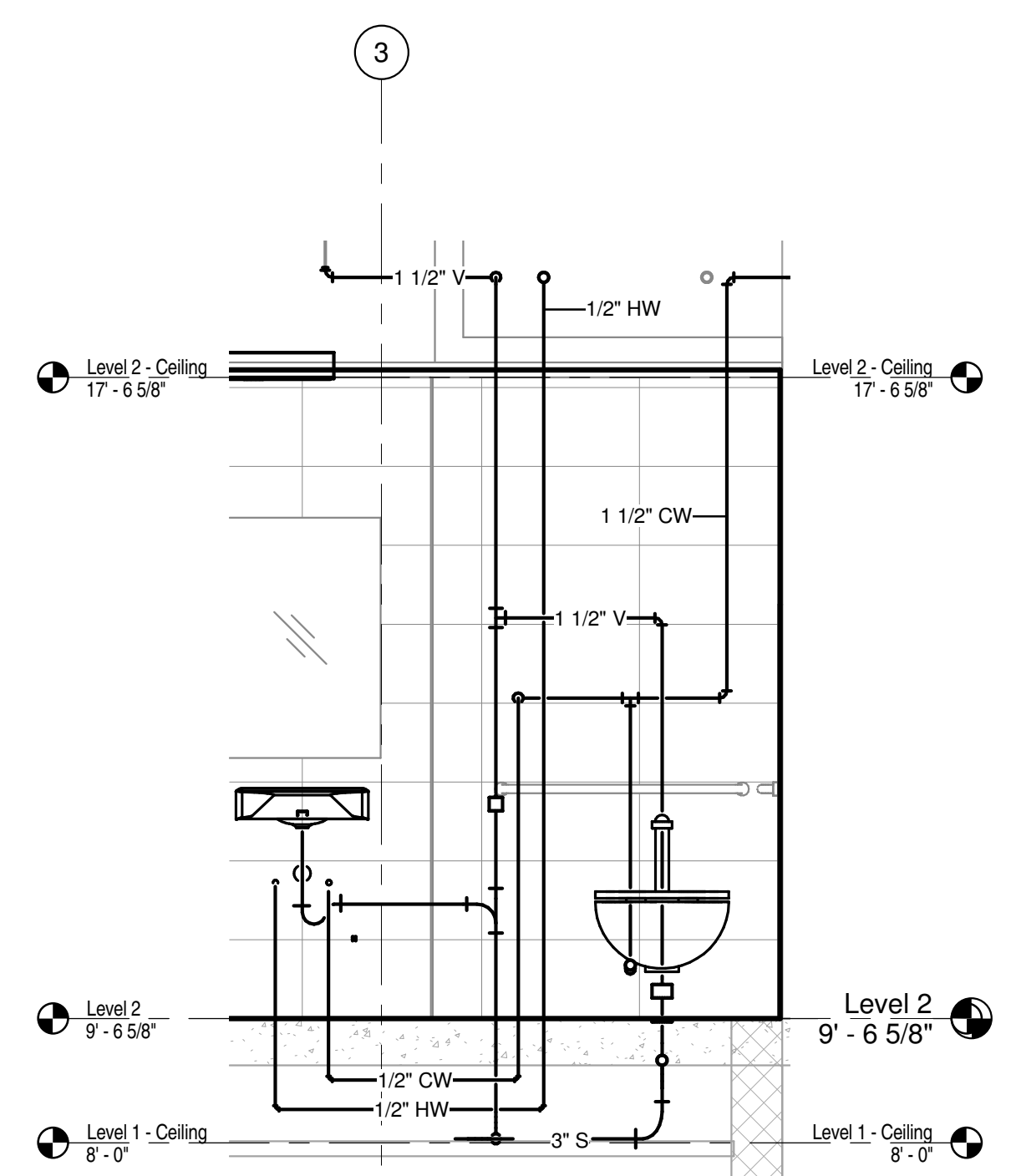


2 FIRE PROTECTION DEMO - LEVEL 2
F-102
1/8" = 1'-0"

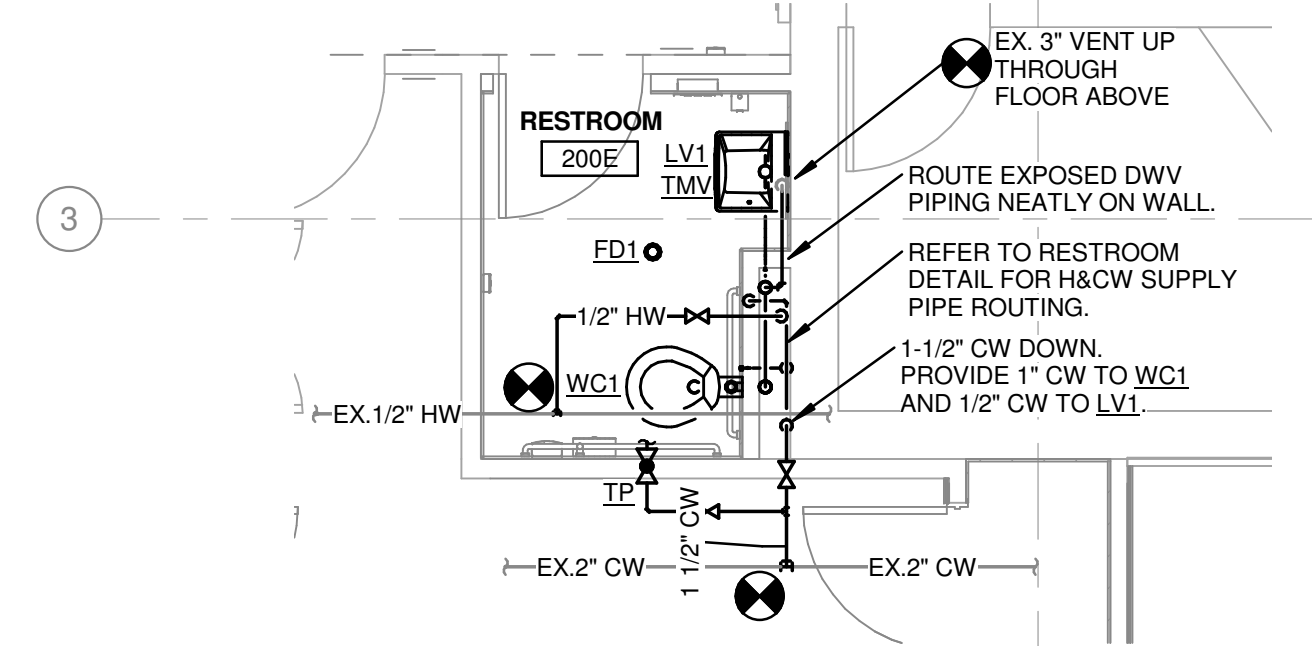


1 FIRE PROTECTION - LEVEL 2
F-102
1/8" = 1'-0"

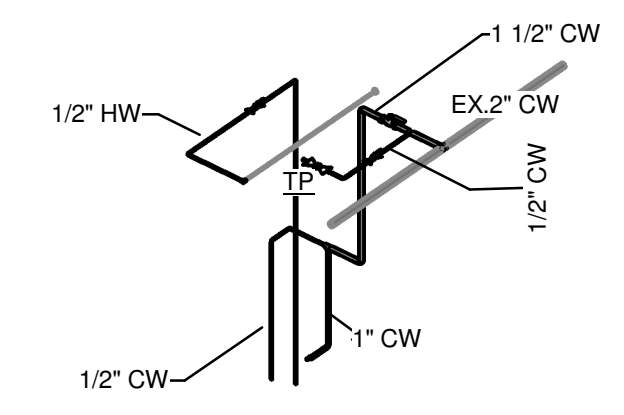
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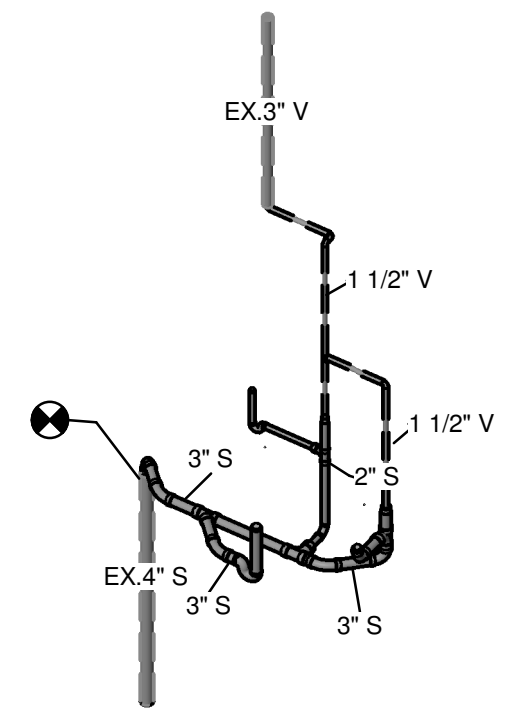
6 RESTROOM 200E
P-000 1/2" = 1'-0"



5 PLUMBING - DOMESTIC WATER - LEVEL 2 - ENLARGED VIEW
P-000 1/4" = 1'-0"



1 DOMESTIC WATER ISOMETRIC
P-000



2 SANITARY WASTE AND VENT ISOMETRIC
P-000

PLUMBING LEGEND

SYMBOL	DESCRIPTION
PLAN-VIEW LINE TYPES	
— — — — —	WORK SHOWN FADED INDICATES EXISTING WORK TO REMAIN OR NEW WORK BY OTHERS AS APPLICABLE
- - - - -	WORK SHOWN BOLD-DASHED INDICATES SELECTIVE DEMOLITION WORK
— — — — —	WORK SHOWN BOLD-CONTINUOUS INDICATES NEW WORK
→	DIRECTION OF FLOW
PIPING LINE TYPES	
—S—	SANITARY WASTE PIPING
—V—	SANITARY VENT PIPING
—CW—	DOMESTIC COLD WATER PIPING
—HW—	DOMESTIC HOT WATER PIPING (120°F)
PLUMBING SYMBOLS	
— —	PIPE UP
— —	PIPE DOWN
— —	PIPE TEE DOWN
— —	PIPE TEE UP
— —	PIPE CONTINUATION

STANDARD PLUMBING ABBREVIATIONS

1 COMP	1 COMPARTMENT SINK	L	LITER
3 COMP	3 COMPARTMENT SINK	LAV	LAVATORY
A	COMPRESSED AIR	LAS	LIMITED AREA SPRINKLER
A/E	ARCHITECT / ENGINEER	L/H	LITERS PER HOUR (OR LITERS/HOUR)
AAV	AIR ADMITTANCE VALVE	LM	LITERS PER MINUTE (OR LITERS/MINUTE)
ACCESS	ACCESSORIES	L/S	LITERS PER SECOND (OR LITERS/SECOND)
AD	AREA DRAIN	LBS/HR	POUNDS PER HOUR
AFF	ABOVE FINISHED FLOOR	LF	LINEAR FOOT (FEET)
AFG	ABOVE FINISHED GRADE	LIQ	LIQUID
AMP	AMPERE	LPG	LIQUID PROPANE GAS
ANG	ANGLE	LVG	LEAVING
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	M	METER, SI UNIT
AP	ACCESS PANEL	M/S	METERS PER SECOND (OR METERS/SECOND)
APPROX	APPROXIMATE	MAU	MAKE-UP AIR UNIT
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	MAX	MAXIMUM
AV	ACID VENT	MBH	1000 BTUH
AW	ACID WASTE	MGAP	MED GAS ALARM PANEL
BAS	BUILDING AUTOMATION SYSTEM	MGZV	MED GAS ZONE VALVE
BFP	BACKFLOW PREVENTER	MHP	MOTOR HORSEPOWER
BIM	BILL OF MATERIALS	MIN	MINIMUM
BMT	BLOWOFF TANK	MM	MILLIMETER
BTC	BLOWOFF TANK CONTROL VALVE	MOCP	MAXIMUM OVERCURRENT PROTECTION
BTU	BRITISH THERMAL UNIT	MS	MIXING VALVE
BV	BALANCING VALVE	N	NITROGEN
BT	BATH TUB	NA	NOT APPLICABLE
BTUH	BRITISH THERMAL UNIT PER HOUR	NC	NORMALLY CLOSED
BVV	BACK WATER VALVE	NFC	NOT FOR CONSTRUCTION
C	CENTIGRADE (CELCIUS)	NG	NATURAL GAS
CA	COMPRESSED AIR	NIC	NOT IN CONTRACT
CB	CATCH BASIN	NO	NITROUS OXIDE
CD-1	CONSTRUCTION DOCUMENTS (SUBMISSION1)	NOA	NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION
CD-2	CONSTRUCTION DOCUMENTS (SUBMISSION2)	NOM	NOMINAL
CFH	CUBIC FEET PER HOUR	NTS	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE	NUM	NUMBER
CFM	CUBIC FEET PER MINUTE	O2	OXYGEN
CFM	CUBIC FEET PER MINUTE	OC	OVER CURRENT PROTECTION
CI	CAST IRON	OD	OUTSIDE DIAMETER
CMS	CUBIC METER PER SECOND	OD	OVERFLOW DRAIN
CO	CLEAN OUT	OI	OIL INTERCEPTOR
CO2	CARBON DIOXIDE	OR	OPERATING ROOM
COMP	COMPRESSOR UNIT	OUT	OUTPUT
CP	CIRCULATION PUMP	PA	PASCAL
CPVC	CHLORINATED POLYVINYL CHLORIDE	PC	PLUMBING CONTRACTOR
CW	COLD WATER (POTABLE)	PCF	POUNDS PER CUBIC FOOT (FEET)
DD-1	DESIGN DEVELOPMENT (SUBMISSION1)	PG	PRESSURE GAGE
DD-2	DESIGN DEVELOPMENT (SUBMISSION2)	PV	POST INDICATOR VALVE
DEG	DEGREE	PMA	PARTS PER MILLION
DELTA	CHANGE IN TEMPERATURE	PRV	PRESSURE REGULATING VALVE
DF	DRINKING FOUNTAIN	PSI	POUNDS PER SQUARE INCH
DI	DIIONIZED WATER	PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
DIA	DIAMETER	PSIG	POUNDS PER SQUARE INCH - GAGE
DN	DOWN	PVC	POLYVINYL CHLORIDE
DS	DOWNSPOUT	QUAN	QUANTITY
EC	ELECTRICAL CONTRACTOR	RAD	RADIUS
EGS	EMERGENCY GAS SHUTOFF	RD	ROOF DRAIN
EJ	EXPANSION JOINT	RH	ROOF HYDRANT
EL	ELEVATION	RL	ROOF LEADER
EL	ELEVATION	RO	REVERSE OSMOSIS
EXP	EXPANSION	RPBF	REDUCED PRESSURE BACKFLOW PREVENTER
EWC	ELECTRIC WATER COOLER	RPM	REVOLUTIONS PER MINUTE
EWH	ELECTRIC WATER HEATER	RPZ	REDUCED PRESSURE ZONE VALVE
EX	EXISTING	RTU	ROOF TOP UNIT
F	FAHRENHEIT	RV	RELIEF VALVE
FOO	FLOOR CLEAN OUT	S	SANITARY
FD	FLOOR DRAIN	SAN	SANITARY
FDC	FIRE DEPARTMENT CONNECTION	SC	SPRINKLER CONTRACTOR
FFE	FINISHED FLOOR ELEVATION	SD	SHOWER DRAIN
FLA	FULL LOAD AMPERES	SD-2	SCHEMATIC DESIGN (SUBMISSION2)
FLO	FUEL OIL PUMP	SE	SEWAGE EJECTOR
FOT	FUEL OIL TANK	SH	SHOWER
FP	FIRE PUMP	SI	SOLIDS INTERCEPTOR
FS	FLOOR SINK	SK	SINK
FSTAT	FREEZESTAT	SOFT	SOFT WATER
FT	FEET	SOL	SOLENOID
FT-LB	FEET-POUND	SPEC	SPECIFICATION
FURN	FURNISHED	SP	STAND PIPE
FW	FILTERED WATER	SP GR	SPECIFIC GRAVITY
G	GAS	SQ	SQUARE
GA	GAUGE	SO FT	SQUARE FOOT (FEET)
GAL	GALLONS	SS	STAINLESS STEEL
GAS	NATURAL GAS	ST	STORM PIPING
GOO	GRADE CLEAN OUT	STD	STANDARD
GEN	GENERAL	SYS	SYSTEM
GPWH	GAS FIRED WATER HEATER	TAB	TESTING, ADJUSTING, BALANCE
GI	GREASE INTERCEPTOR	TD	TRENCH DRAIN
GPD	GALLONS PER DAY	TDH	TOTAL DYNAMIC HEAD
GPH	GALLONS PER HOUR	TEMP	TEMPERATURE
GPM	GALLONS PER MINUTE	TMV	THERMOSTATIC MIXING VALVE
GPR	GAS PRESSURE REGULATOR	TP	TRAP
GR	GRAINS	TS	TAMPER SWITCH
GT	GREASE TRAP	TSTAT	THERMOSTAT
GW	GREASE WASTE	TU	TERMINAL UNIT
H&C	HOT & COLD WATER	UH	UNIT HEATER
HB	HOSE BIBB	UL	UNDERWRITERS LABORATORY
HC	HVAC CONTRACTOR	UN	UNION
HD	HUB DRAIN	URN	URNAL
HDPE	HIGH DENSITY POLYETHYLENE	V	VALVE
HT	HOT TAP	VAC	VACUUM
HT	HOT WATER	VAL	VALVE
HWR	HOT WATER RETURN	VFD	VARIABLE FREQUENCY DRIVE
I/O	INPUT/OUTPUT	VP	VACUUM PUMP
ICU	INTENSIVE CARE UNIT	VTR	VENT THRU ROOF
ID	INSIDE DIAMETER	W	WATER
IE	INVERT ELEVATION	WAG	WASTE ANESTHESIA GAS
IN	INCHES	WB	WASHER BOX
IND	INDIRECT	WC	WATER CLOSET
IN WC	INCH WATER COLUMN	WCO	WALL CLEAN OUT
IN LB	INCH POUND	WH	WALL HYDRANT
INST	INSTALLED	WF	WATER FILTER
JP	JOCKEY PUMP	WTR	WATER
KG	KILOGRAM	YH	YARD HYDRANT
KG/HR	KILOGRAM PER HOUR	YR	YEAR
KH	KITCHEN HOOD		
KW	KILOWATT		
KWH	KILOWATT HOUR		

MARK	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL FINISH	CONNECTIONS (BY PLUMBING CONTRACTOR)			ACCESSORIES-REMARKS	
					TRAP PRIMER	TRAP SIZE (in)	SAN SIZE (in)		
FD1	FLOOR DRAIN	ZURN	415B		YES	3	3	1-1/2	PROVIDE PPP P2-500 TRAP PRIMER VALVE

MARK	DESCRIPTION	LOCATION	STATUS	MANUFACTURER	MODEL	VALVE/FAUCET MFG	VALVE/FAUCET MODEL	WATTS (Watts)	VOLTS	PHASE	EMERGENCY	FLA (amps)	MCA (amps)	OC (amps)	CW SIZE (in)	HW SIZE (in)	SAN SIZE (in)	VENT SIZE (in)	TRAP SIZE (in)	INT TRAP	ACCESSORIES	
LV1	LAVATORY	RESTROOM		KOHLER	K-2054	SLOAN	EFT-600		0	0					1/2	1/2	1-1/2	1-1/2	1-1/2	NO	MOUNT AT ADA HEIGHT, PROVIDE ACCSTN ST70-12 POINT-OF-USE MIXING VALVE	
SB1	SUPPLY BOX			GUY GRAY	FRIB12ABS				0	0					1/2							PROVIDE WATTS SD2 DUAL CHECK ON SUPPLY TO WATER COOLER
WC1	FLUSH VALVE WATER CLOSET	RESTROOM		AMERICAN STANDARD	2234.001	SLOAN	111-1.28 ES-S TMO		0	0					1		3	1-1/2		YES	ADA, PROVIDE FLUSH VALVE HANDLE ON THE OPEN SIDE OF WATER CLOSET.	

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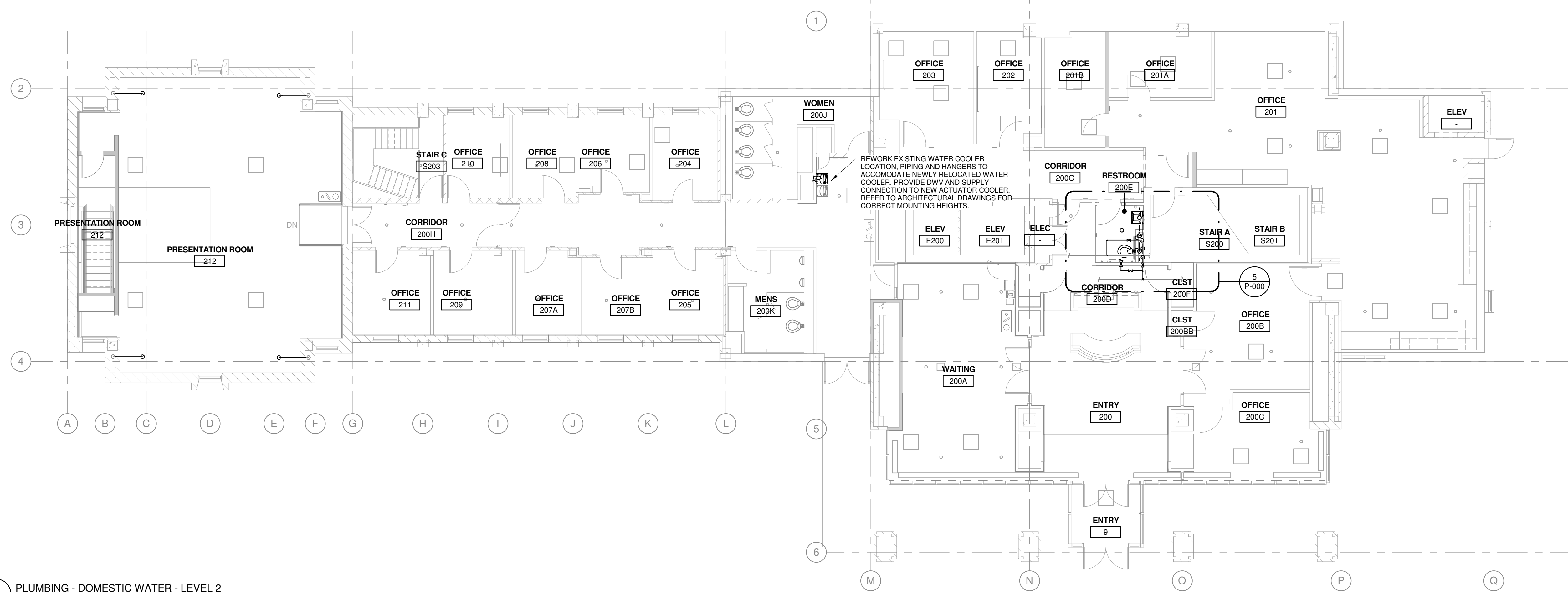
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PLUMBING - LEGEND AND DETAILS

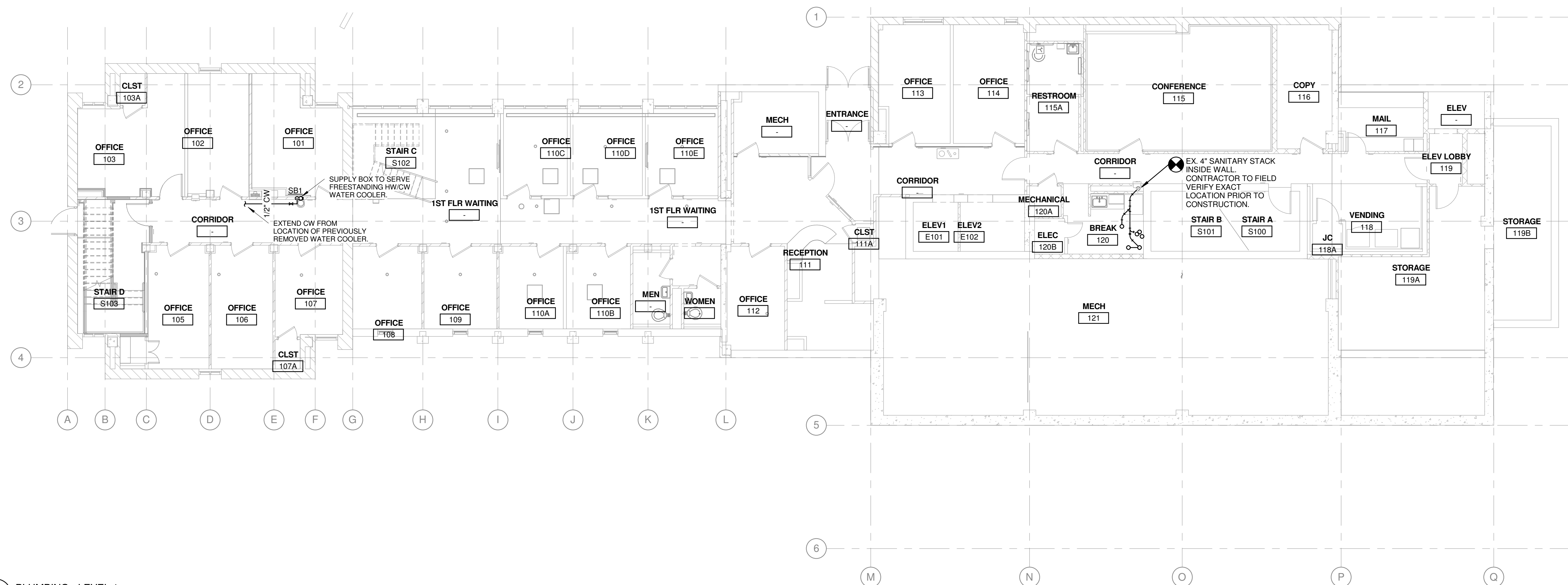
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P-000

GENERAL NOTES
A. REPLACE ALL TOILET SEATS IN MENS AND WOMENS RESTROOMS ON 1ST AND 2ND FLOORS.



2 PLUMBING - DOMESTIC WATER - LEVEL 2
P-101 1/8" = 1'-0"



1 PLUMBING - LEVEL 1
P-101 1/8" = 1'-0"

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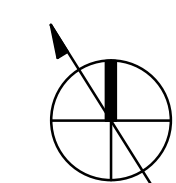
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**PLUMBING -
NEW - 1ST &
2ND FLR**

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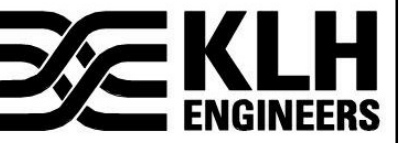
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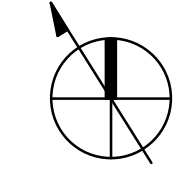
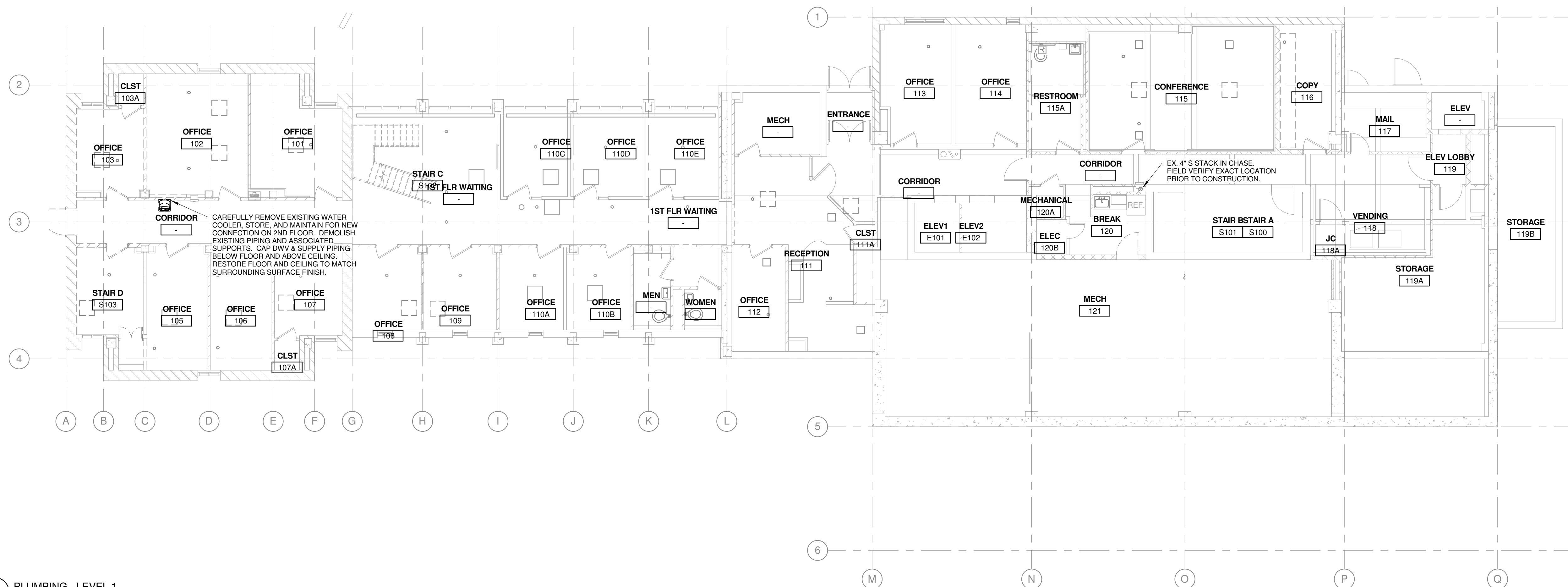
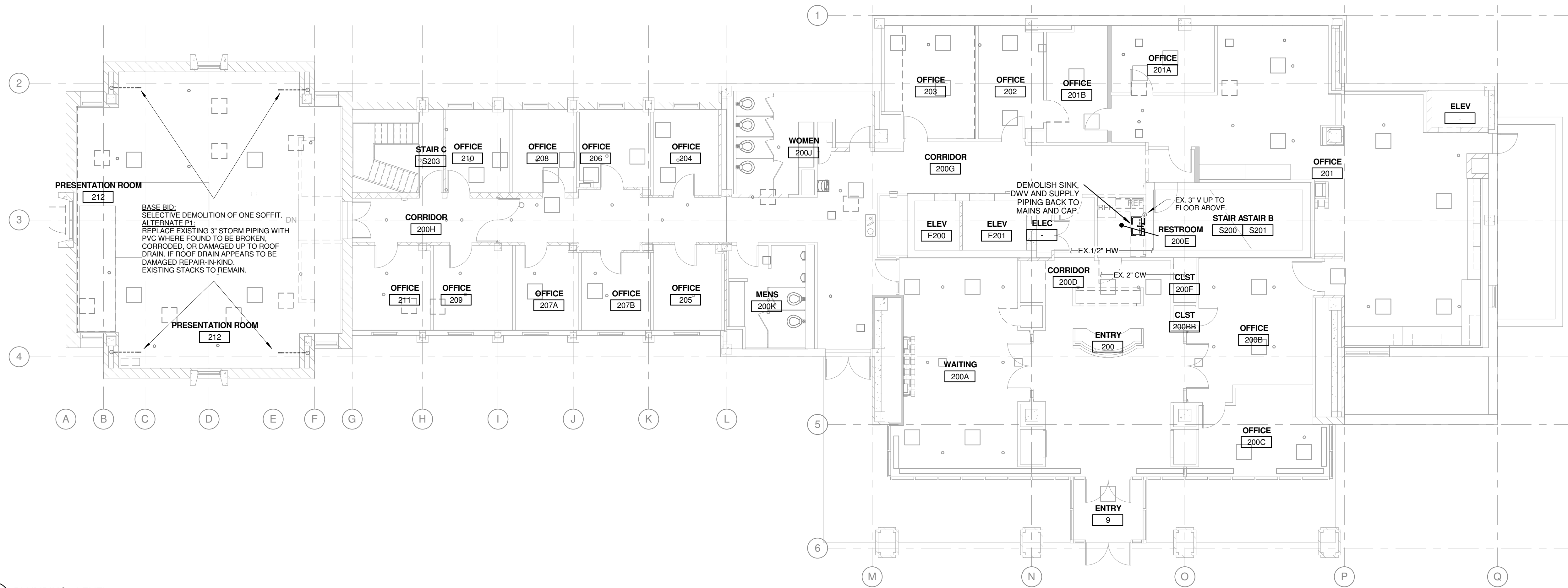


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PLUMBING - DEMO - 1ST FLR & 2ND FLR

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**MECHANICAL
- DEMO -
BASEMENT
& 1ST FLR**

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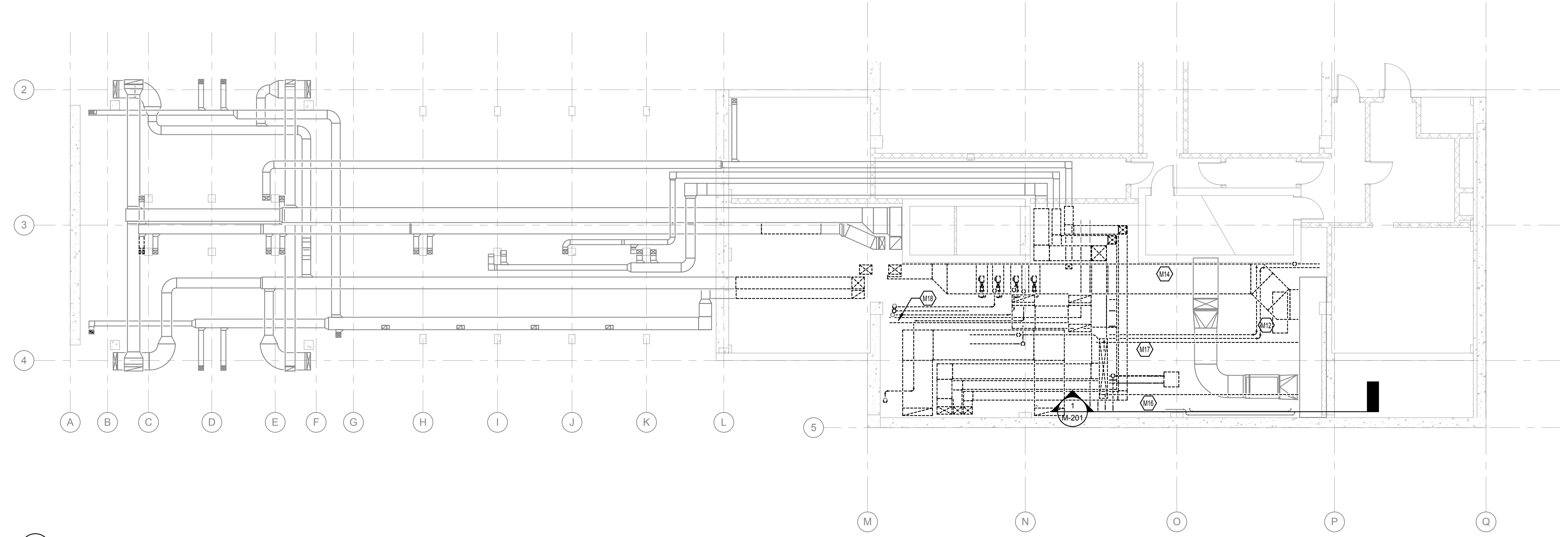
MD100

KEYED NOTES

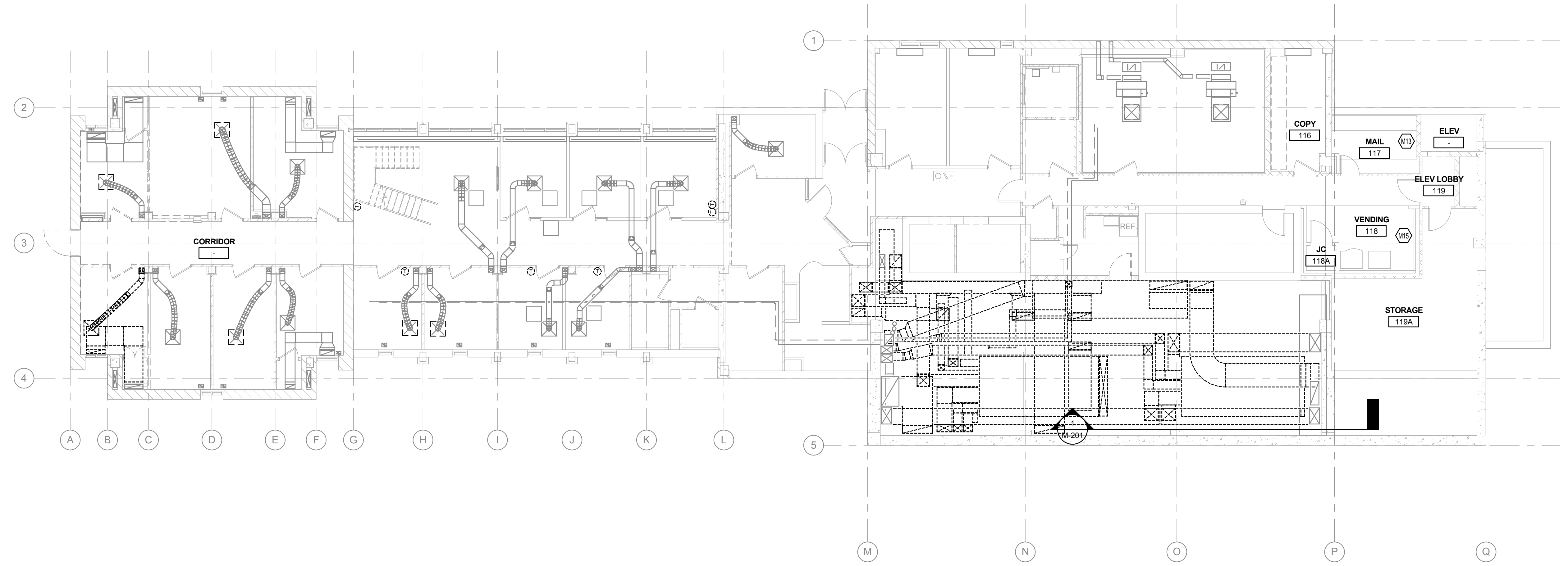
- M12 REMOVE EXISTING AIR COMPRESSOR, AIR DRYER, AND AUTOMATIC DRAIN VALVE AND TURN OVER TO OWNER.
- M13 REMOVE EXISTING CHILLING UNIT AND CAP EXISTING PIPING AT THE FLOOR.
- M14 EXISTING R-22 DUCTLESS SPLIT CONDENSER TO BE REMOVED BY XAVIER STAFF. MECHANICAL CONTRACTOR TO COORDINATE INDOOR UNIT REMOVAL WITH XAVIER ACCORDINGLY.
- M16 REMOVE EXISTING VFD'S A TURN OVER TO OWNER.
- M17 REMOVE EXISTING HOT WATER EXCHANGER AND TURN OVER TO OWNER.
- M18 DYER TO RELOCATE EXISTING DOMESTIC LINE TO PROVIDE CLEARANCE FOR THE NEW AIR HANDLER. THE EXISTING LINES APPEARS TO BE TWO 3/4" DOMESTIC CW AND HW, HOWEVER SIZE VERIFICATION WILL BE REQUIRED ONCE THE INSULATION IS REMOVED. THE NEW LINE SHALL CONNECT TO THE EXISTING TWO TIE IN POINTS AND SHALL ROUTE UP AND OVER THE AIR HANDLER TO PROVIDE NECESSARY CLEARANCE.

DEMOLITION GENERAL NOTES

- A. REMOVE EXISTING DUCTWORK, CONTROLS, AND MISCELLANEOUS HVAC EQUIPMENT NOT INTENDED FOR REUSE. FIELD VERIFY THE EXACT SCOPE OF WORK PRIOR TO BID. COORDINATE ALL DEMOLITION WORK WITH THE LANDLORD AND GENERAL CONTRACTOR.
- B. ALL EXISTING PNEUMATICS WITHIN THE ENTIRE BUILDING ARE TO BE COMPLETELY REMOVED.



1 HV DEMOLITION - LEVEL 0
MD100 1/8" = 1'-0"



2 MECHANICAL DEMOLITION - LEVEL 1
MD100 1/8" = 1'-0"

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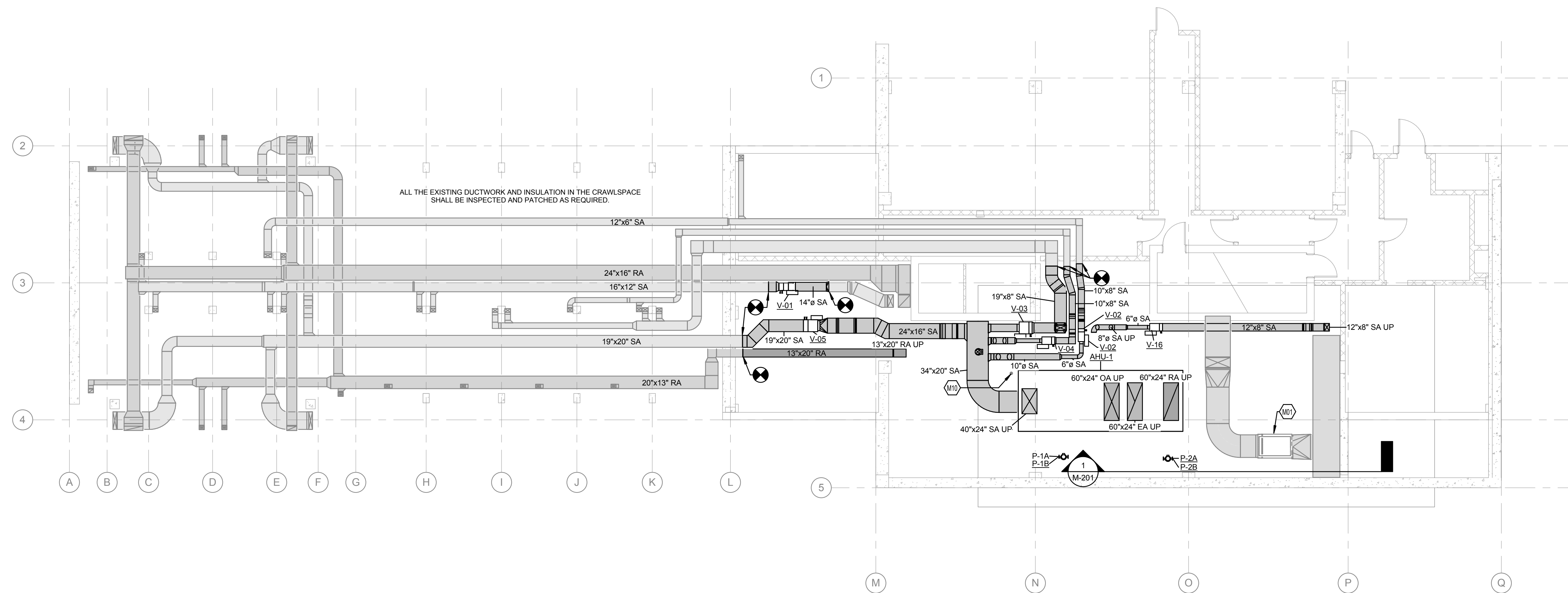
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KEYED NOTES

- M01 EXISTING STAIRWAY PRESSURIZATION FAN AND DUCTWORK TO REMAIN AS IS.
- M10 RELOCATE THE EXISTING FLOOR DRAIN IN MECHANICAL ROOM TO MISS THE BOUNDARIES OF THE NEW EQUIPMENT PAD. FLOOR SHALL BE SAWCUT AND EXISTING SANITARY SHALL BE EXTENDED AS REQUIRED TO ACCOMMODATE NEW CONDENSATE DRAIN LINE. WORK IS TO BE PERFORMED BY T.J. DYER

GENERAL NOTES

- A. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETELY FURNISH, INSTALL, AND PLACE INTO OPERATION, ALL SYSTEMS SHOWN ON THE DRAWINGS AND DELINEATED IN THE SPECIFICATIONS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES. REPORT ANY KNOWN DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
- B. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS AND GRILLES.
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- I. REMOVAL AND REPLACEMENT OF MECHANICAL MEZZANINE GRATING IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. REUSE EXISTING GRATING WHERE FEASIBLE.
- J. REMOVE, CLEAN AND RE-INSTALL ALL AIR DEVICES THROUGHOUT BASEMENT, FIRST AND SECOND FLOORS.



1 HV LEVEL 0
M-100 1/8" = 1'-0"

**Schott Hall Admissions Office
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1496 Dana Ave Cincinnati, Ohio 45207



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No.	Description	Date
1	BID & PERMIT	07/14/17



DRAWN BY: MAS
CHECKED BY: KTW

**MECHANICAL
-
DUCTWORK
- NEW -
BASEMENT**

DATE
July 14, 2017

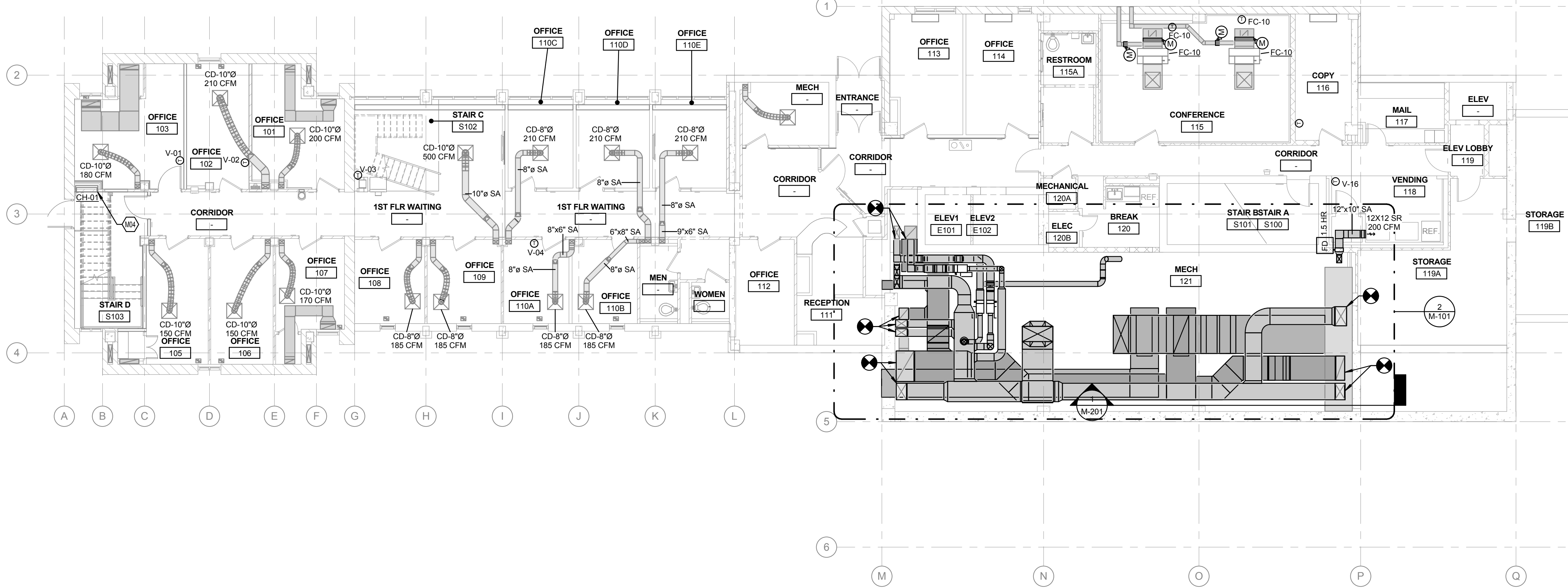
M-100

GENERAL NOTES

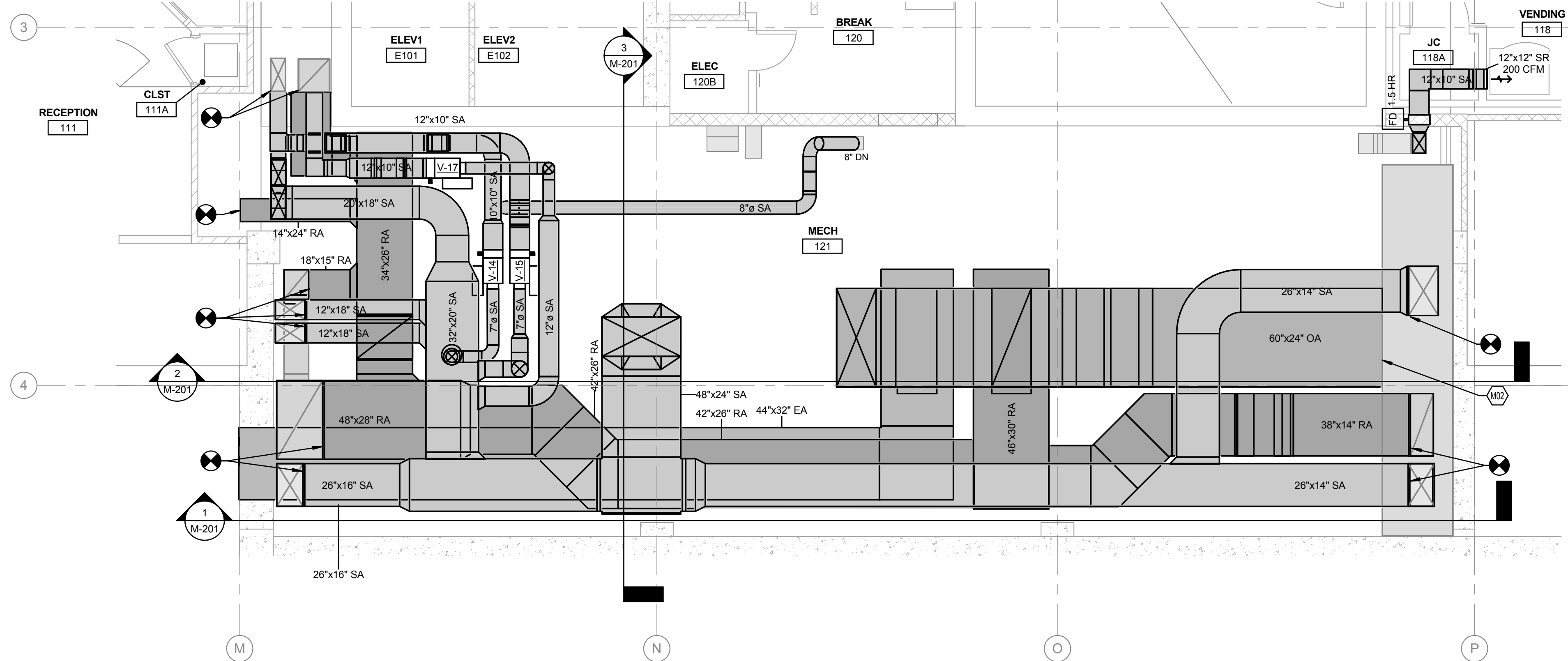
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- J. REMOVE, CLEAN AND RE-INSTALL ALL AIR DEVICES THROUGHOUT BASEMENT, FIRST AND SECOND FLOORS.

KEYED NOTES

- M02 EXTEND OUTSIDE AIR DUCTWORK FROM EXISTING PLENUM.
- M04 EXISTING CABINET HEATER TO REMAIN.



1 MECHANICAL NEW WORK - LEVEL 1
1/8" = 1'-0"



2 HV LEVEL 1 - MECHANICAL ROOM
1/4" = 1'-0"



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No.	Description	Date
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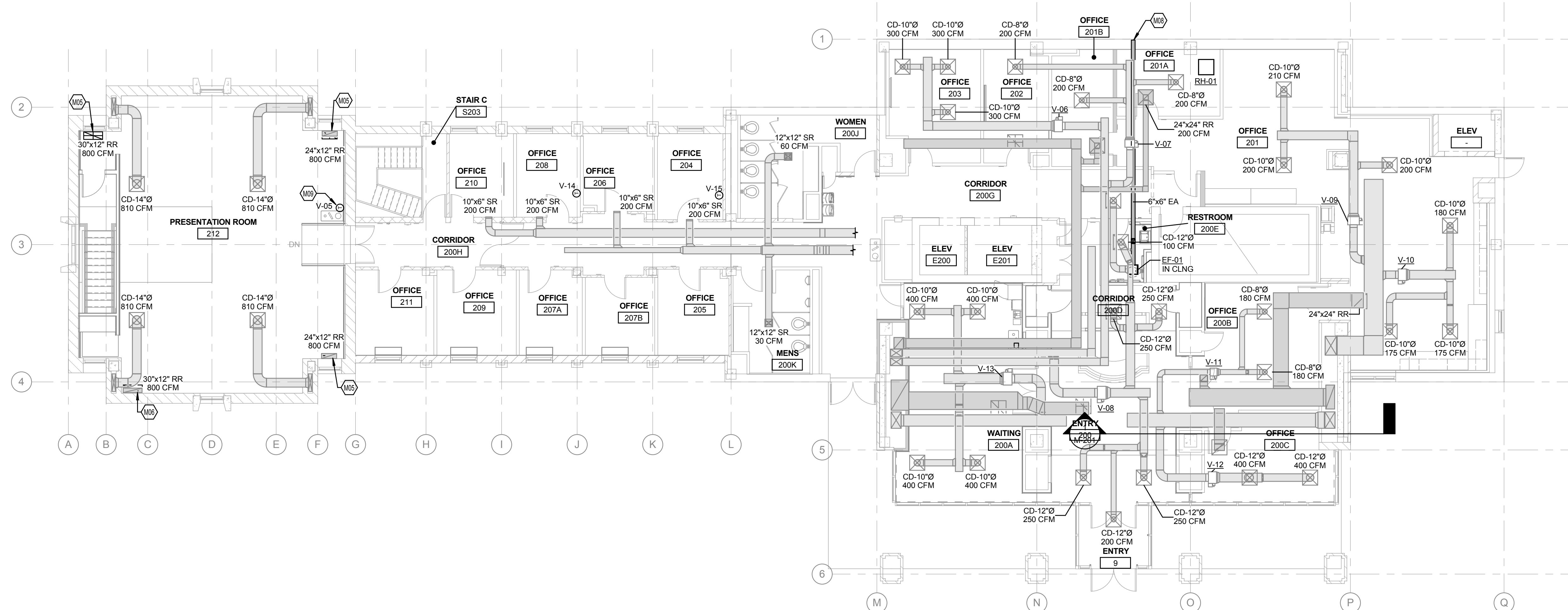


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MECHANICAL
-
DUCTWORK
- NEW - 1ST
FLR

DATE
July 14, 2017

M-101



1 MECHANICAL NEW WORK - LEVEL 2
M-102 1/8" = 1'-0"

GENERAL NOTES

- A. PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETELY FURNISH, INSTALL, AND PLACE INTO OPERATION, ALL SYSTEMS SHOWN ON THE DRAWINGS AND DELINEATED IN THE SPECIFICATIONS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND ORDINANCES. REPORT ANY KNOWN DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
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KEYED NOTES

- M05 REPLACE EXISTING FLOOR REGISTER WITH NEW.
- M06 EXTEND EXISTING RETURN AIR DUCTWORK THROUGH FLOOR TO NEW RETURN REGISTER. CUT AND PATCH FLOOR TO MAINTAIN EXISTING FINISH.
- M08 PROVIDE 8X8 BRICK VENT THROUGH EXTERIOR WALL. CUT AND PATCH WALL TO MAINTAIN EXISTING FINISH.
- M09 VAV BOX FOR PRESENTATION ROOM SHALL BE TIED TO THE NEW LIGHTING OCCUPANCY SENSOR SUCH THAT WHEN THE ROOM IS UNOCCUPIED, THE MINIMUMS ON THE VAV BOX ARE RESET TO 10% OF THE VAV CFM.

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**MECHANICAL
-
DUCTWORK
- NEW - 2ND
FLR**

DATE
July 14, 2017

M-102

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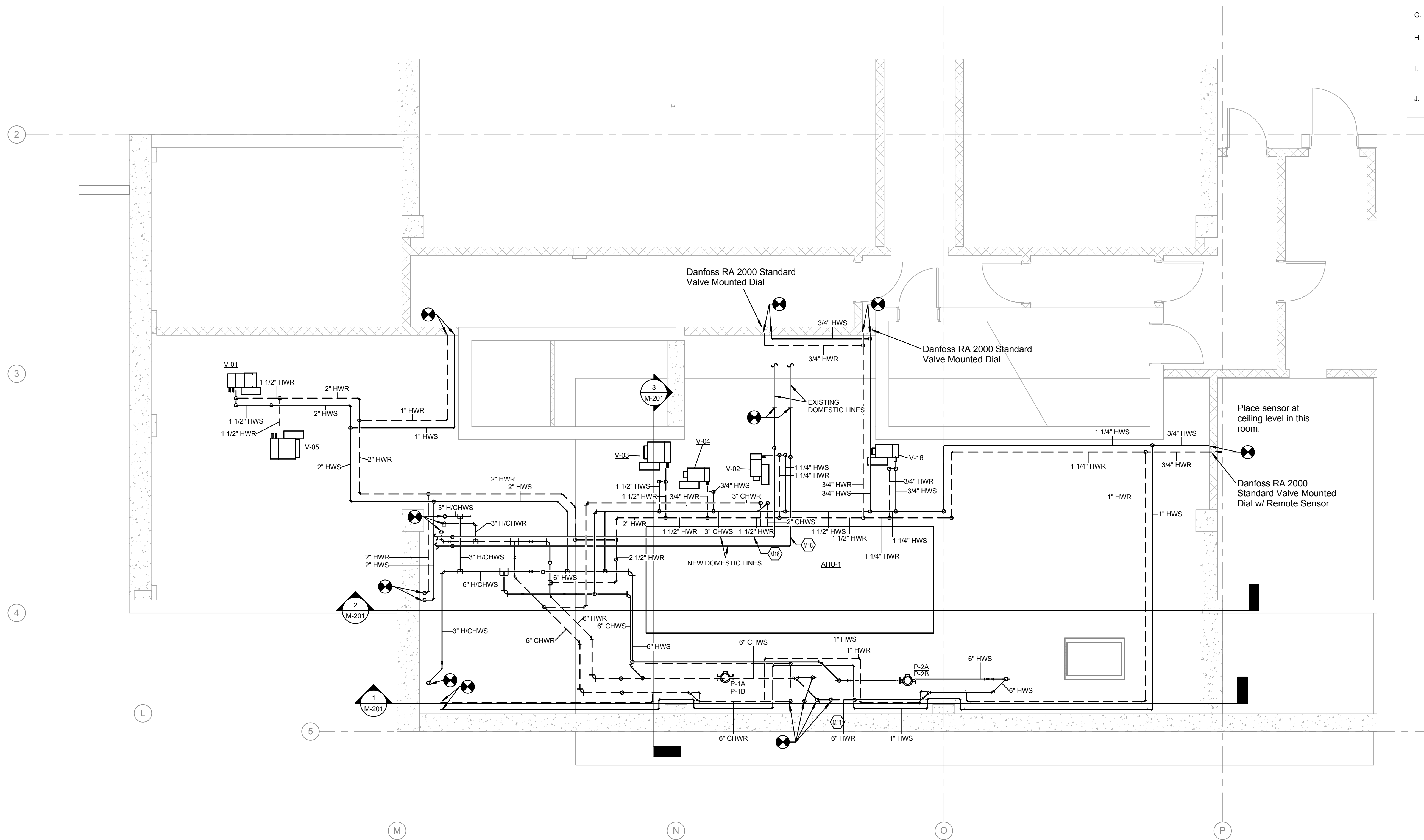
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KEYED NOTES

- M11 PROVIDE NEW HOT WATER 3 WAY VALVE AS DETAILED ON SHEET M-501 ON HOT WATER ENTRANCE TO THE BUILDING TO TEMPER THE INCOMING HOT WATER. TEMPERATURE RESET WILL BE BASED ON OUTSIDE AIR TEMPERATURE. ABOVE 60 DEG F, HWS SHALL BE 100 DEG F. FROM 59-30 DEG F, HWS SHALL BE 120 DEG F. FROM 29 - 0 DEG F, HWS SHALL BE 140 DEG F, AND BELOW 0 DEG F, HWS SHALL BE 160+ DEG F.
- M18 DYER TO RELOCATE EXISTING DOMESTIC LINE TO PROVIDE CLEARANCE FOR THE NEW AIR HANDLER. THE EXISTING LINES APPEARS TO BE TWO 3/4" DOMESTIC CW AND HW, HOWEVER SIZE VERIFICATION WILL BE REQUIRED ONCE THE INSULATION IS REMOVED. THE NEW LINE SHALL CONNECT TO THE EXISTING TWO TIE IN POINTS AND SHALL ROUTE UP AND OVER THE AIR HANDLER TO PROVIDE NECESSARY CLEARANCE.

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1 HP LEVEL 0 - ENLARGED
1/4" = 1'-0"

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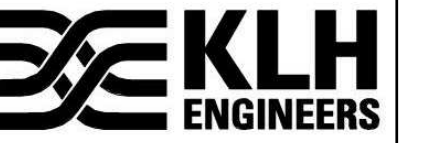
**MECHANICAL
- PIPING -
NEW -
BASEMENT
PLAN**

DATE
July 14, 2017

MP100



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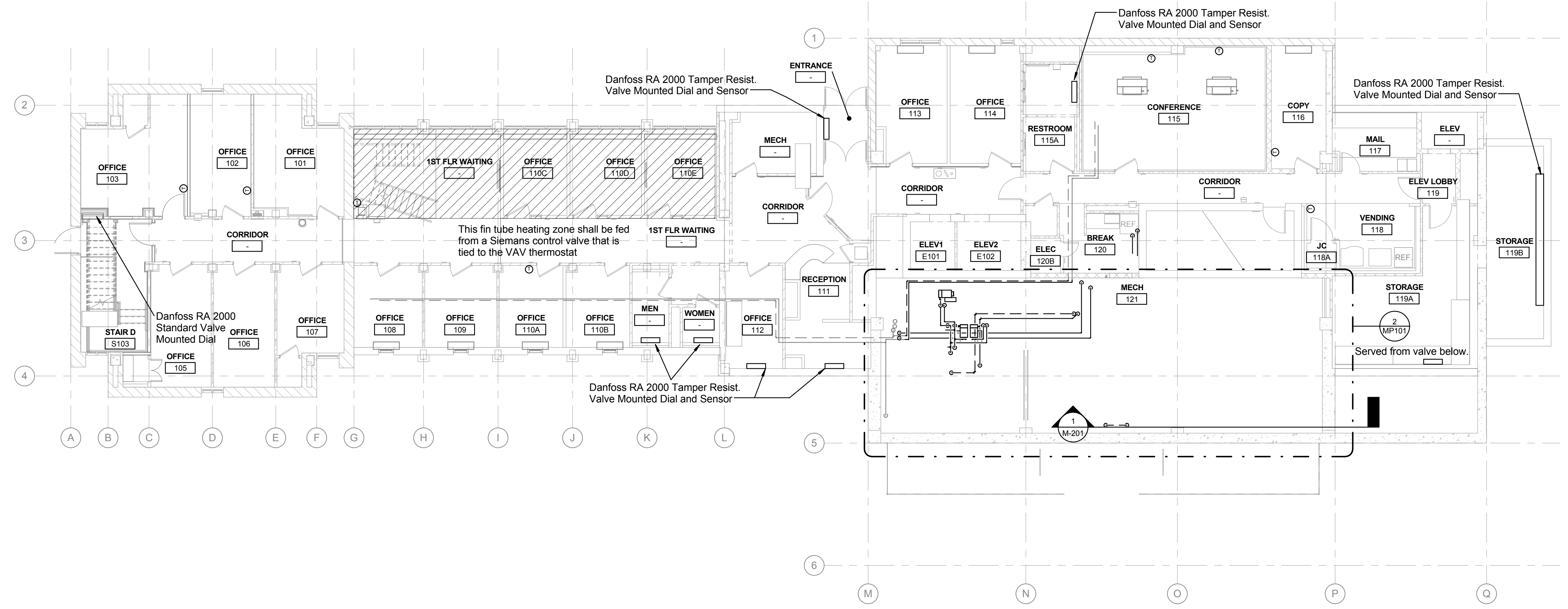
**MECHANICAL
- PIPING -
NEW - 1ST
FLR**

DATE
July 14, 2017

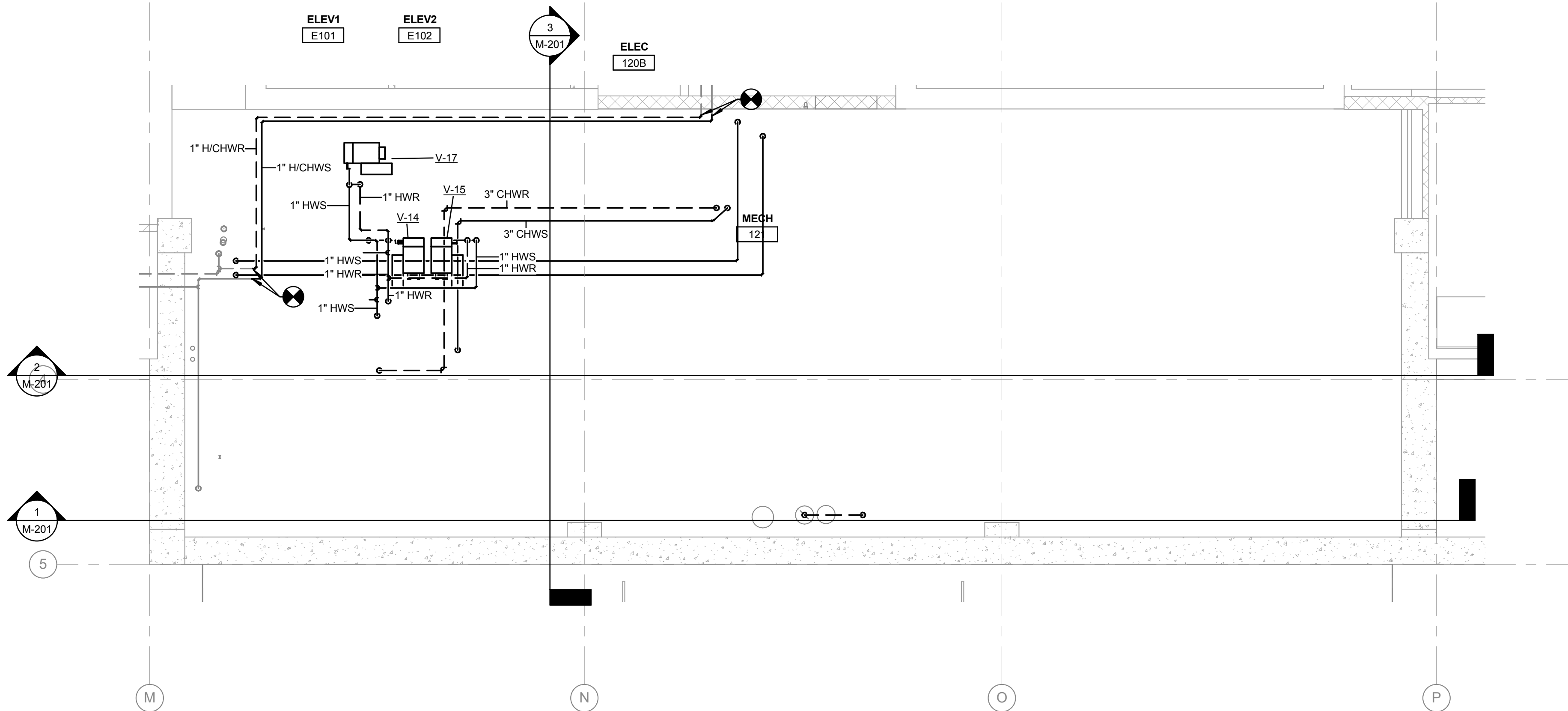
MP101

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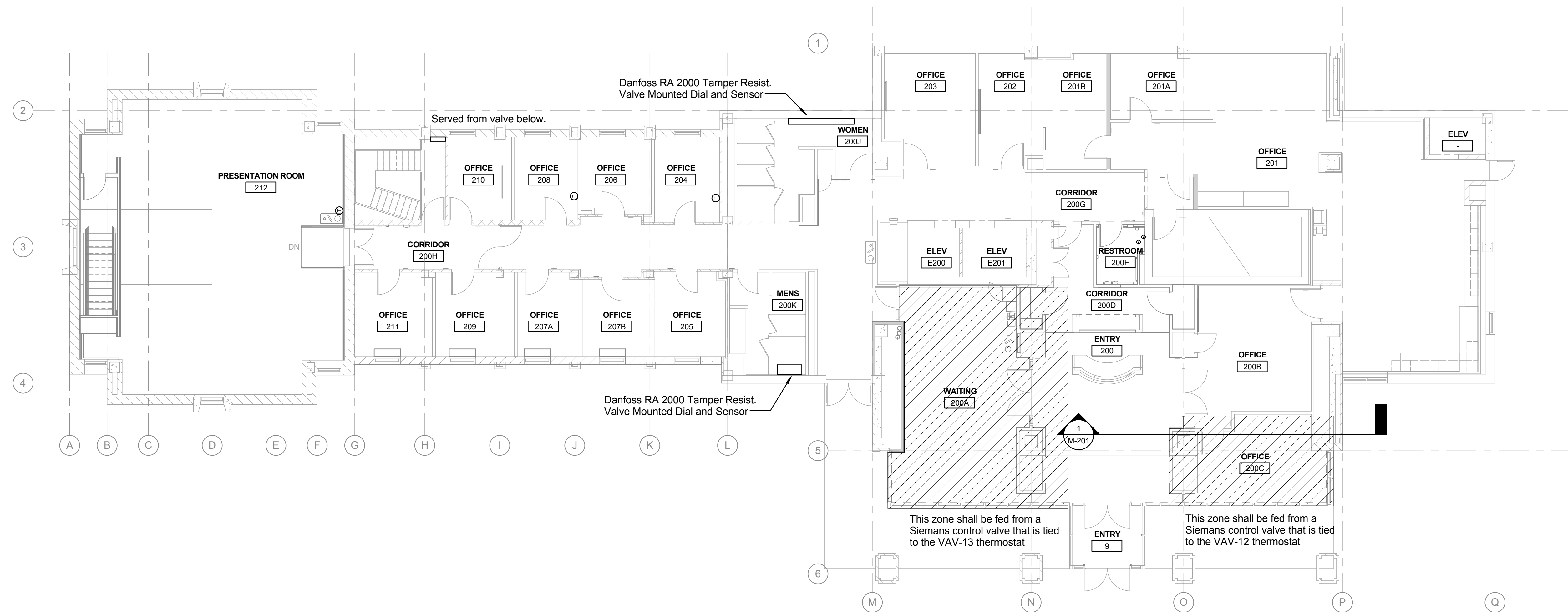
1 MECHANICAL PIPING - LEVEL 1
1/8" = 1'-0"



2 HP LEVEL 1 - Callout 1
1/4" = 1'-0"

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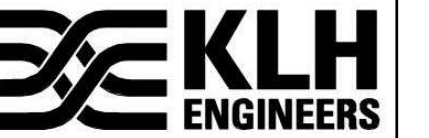


1 MECHANICAL PIPING - LEVEL 2
MP-102
1/8" = 1'-0"

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No.	Description	Date
1	BID & PERMIT	07/14/17



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**MECHANICAL
- PIPING -
NEW - 2ND
FLOOR**

DATE
July 14, 2017

MP-102

No.	Description	Date
1	BID & PERMIT	07/14/17



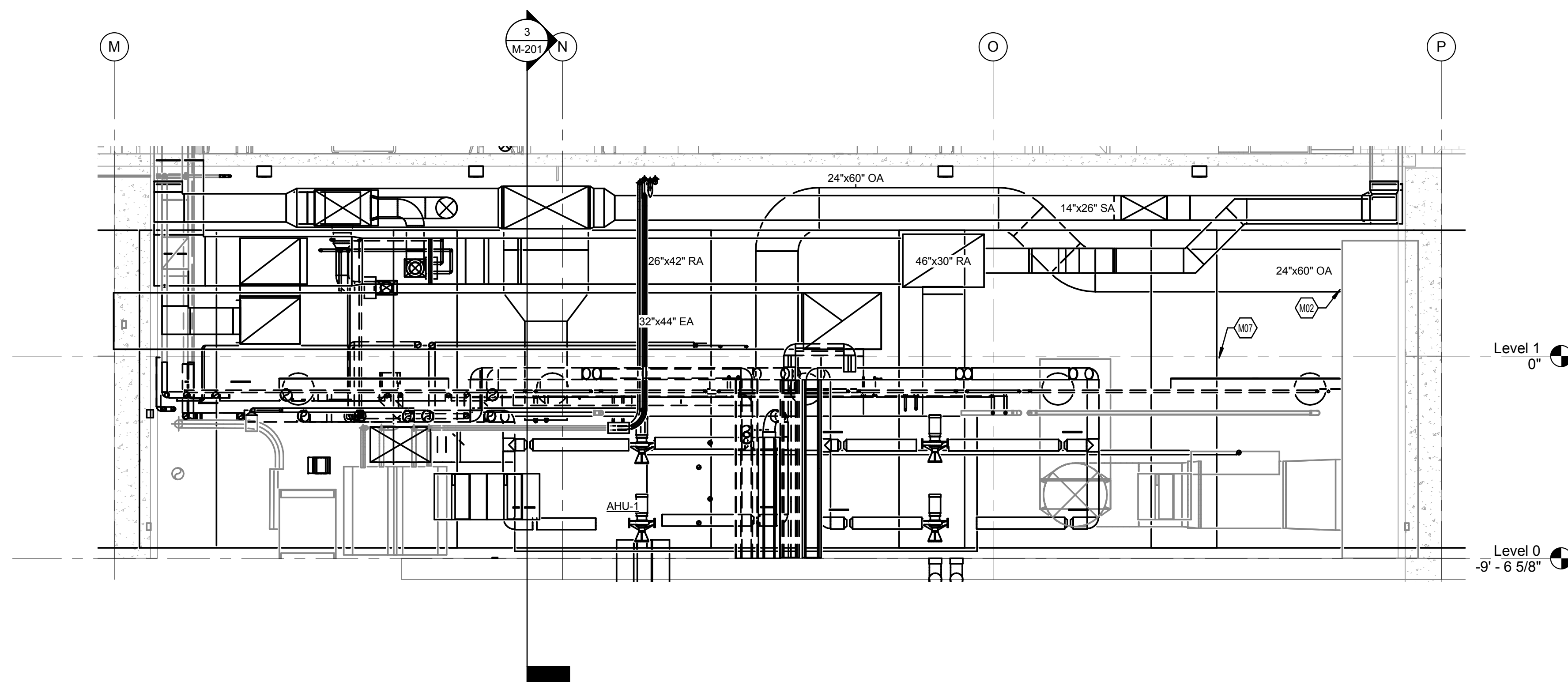
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MECHANICAL - SECTIONS

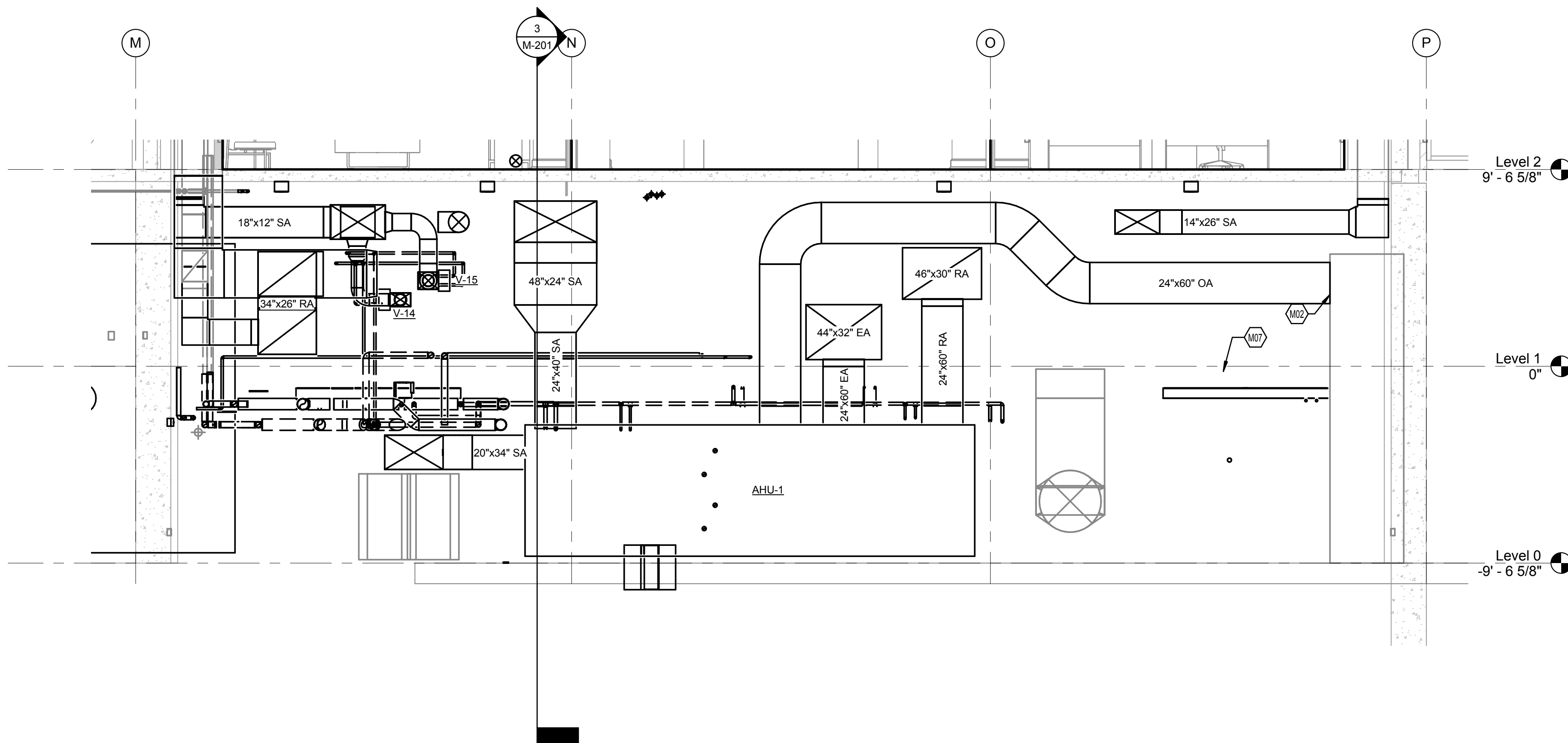
DATE
July 14, 2017
M-201

KEYED NOTES

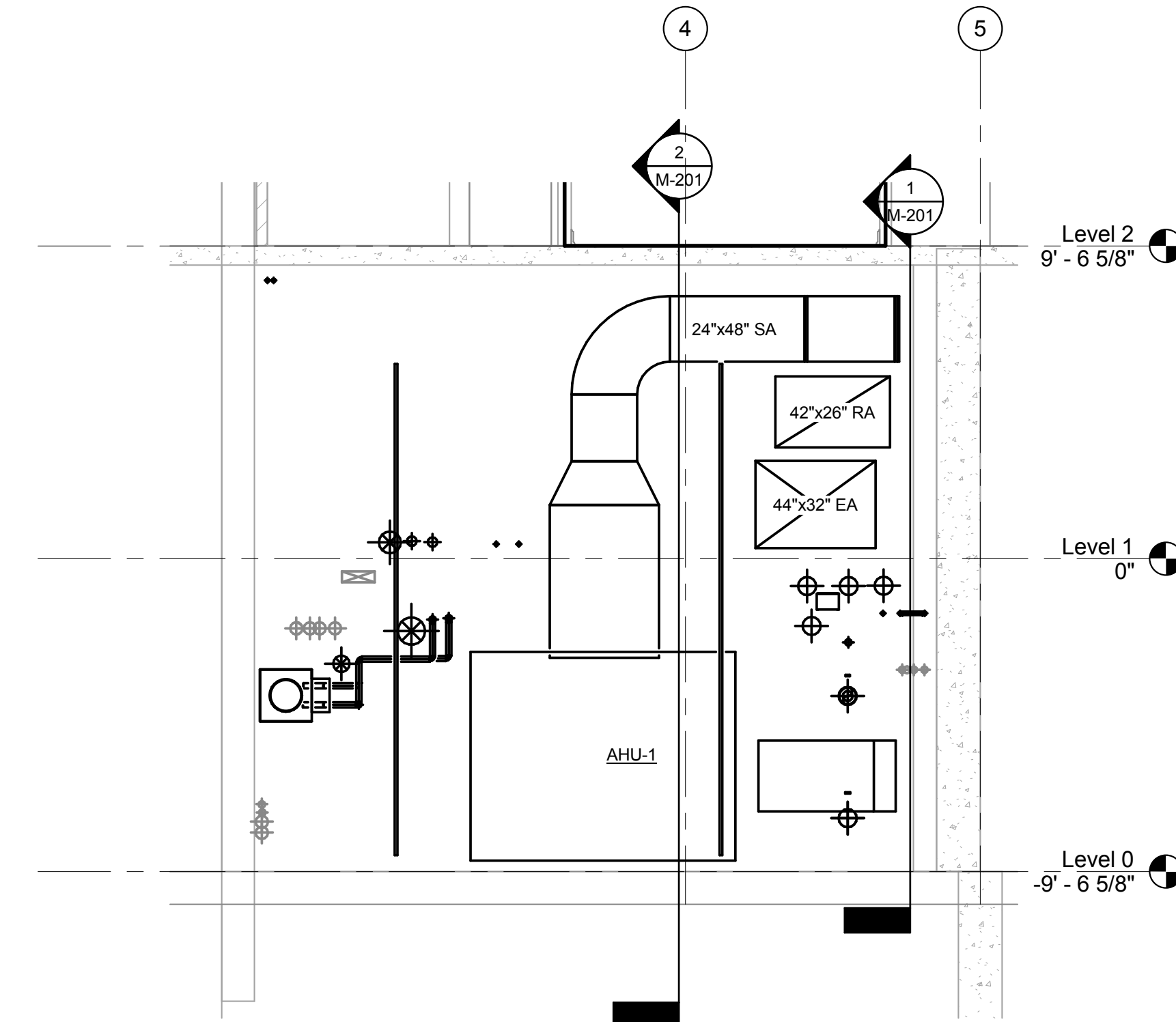
- M02 EXTEND OUTSIDE AIR DUCTWORK FROM EXISTING PLENUM.
- M07 REMOVAL AND REPLACEMENT OF MECHANICAL MEZZANINE GRATING IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. REUSE EXISTING GRATING WHERE FEASIBLE.



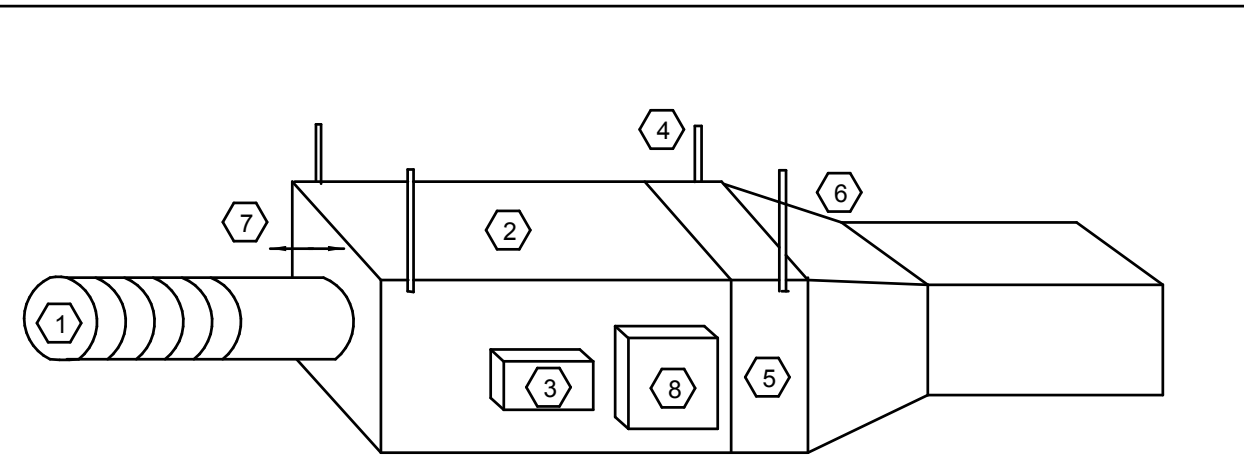
1 MECHANICAL ROOM SECTION - 1
1/4" = 1'-0"



2 MECHANICAL ROOM SECTION - 2
1/4" = 1'-0"



3 MECHANICAL ROOM SECTION - 3
1/4" = 1'-0"



KEYED NOTES:

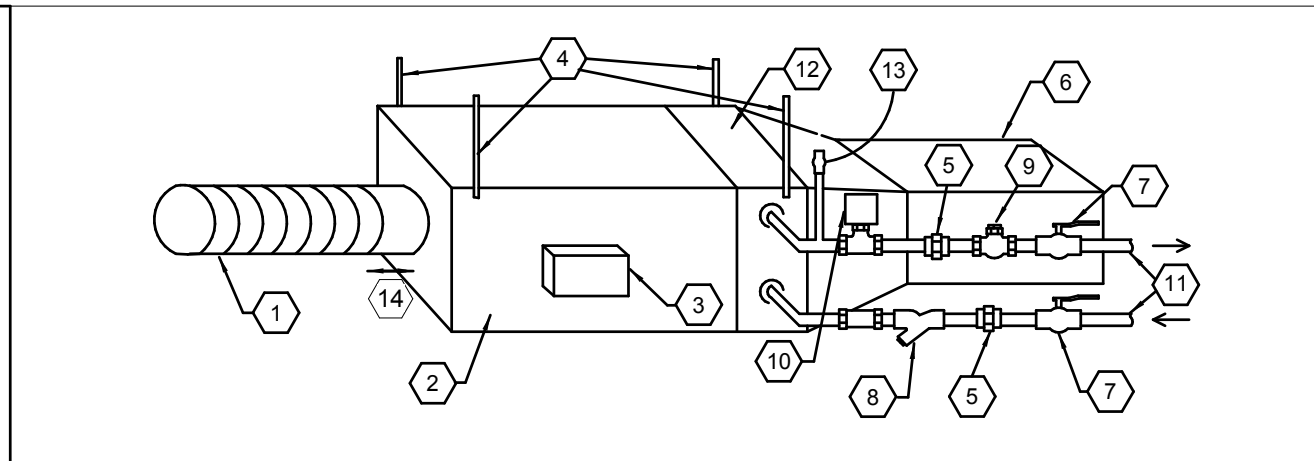
1. INSULATED INLET DUCT MAXIMUM FLEX DUCT LENGTH OF 24" TO HARD DUCT CONNECTION TO VAV BOX
2. VAV BOX
3. ACTUATOR
4. GALVANIZED THREADED ROD (CONNECT TO STRUCTURE)
5. ELECTRIC HEATING COIL SECTION
6. OUTLET CONNECTION, PROVIDE SUFFICIENT STRAIGHT LENGTH TO ASSURE EVEN AIR FLOW OVER HEATING COIL
7. SHEET METAL DUCT VAV BOX, MINIMUM LENGTH OF 3 TIMES INLET DUCT DIAMETER
8. DISCONNECT SWITCH, FACTORY PROVIDED, WIRED, AND MOUNTED TO VAV BOX. PROVIDE 3" CLEARANCE. INSTALL ABOVE ACCESSIBLE CEILING OR PROVIDE ACCESS PANEL.

GENERAL NOTES:

A. MAINTAIN 36" CLEARANCE MINIMUM TO DISCONNECT AND CONTROL PANEL. MAINTAIN ALL MANUFACTURER RECOMMENDED CLEARANCES.

B. OMIT FLEX DUCT ON DISTRIBUTION SYSTEMS THAT PENETRATE 1-HR FIRE BARRIERS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE BARRIERS.

233613.00-04 - VAV BOX WITH ELECTRIC HEAT
SCALE: NONE



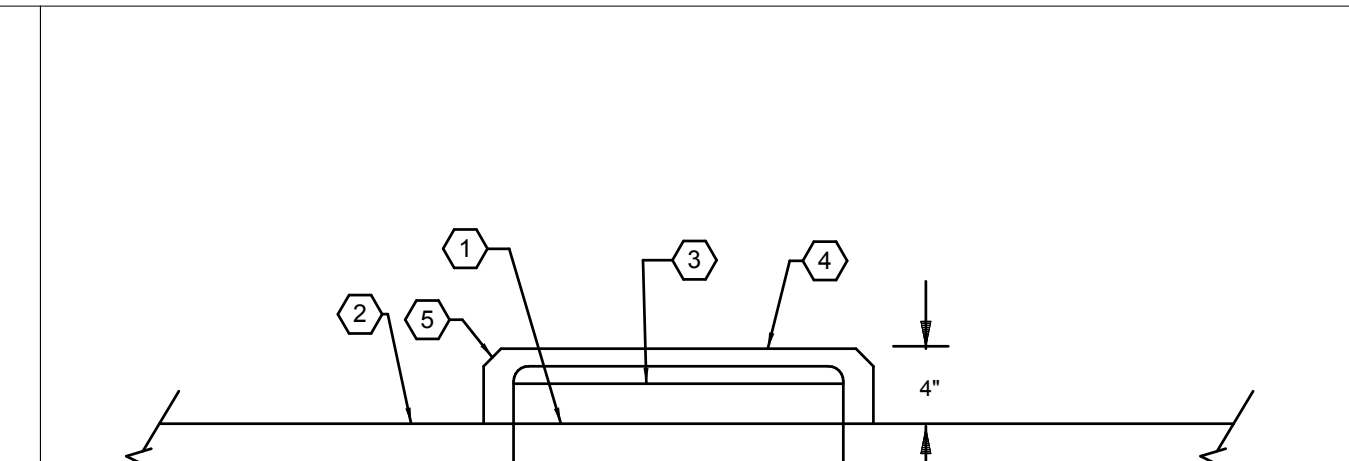
KEYED NOTES:

1. INSULATED FLEXIBLE INLET DUCT WITH MAXIMUM LENGTH OF 24". PROVIDE TIE-WRAPPS ON INNER & OUTER JACKET OF FLEXIBLE DUCT MATERIAL. IN ADDITION TO SHEETMETAL SCREWS & FENDER WASHERS ON EACH SIDE OF DUCT CONNECTION.
2. VAV BOX
3. DAMPER ACTUATOR - PROVIDE 3" CLEARANCE. LOCATE ABOVE ACCESSIBLE CEILING OR PROVIDE ACCESS PANEL.
4. GALVANIZED THREADED ROD (CONNECT TO STRUCTURE)
5. UNION
6. OUTLET CONNECTION, PROVIDE SUFFICIENT STRAIGHT LENGTH TO ASSURE EVEN AIR FLOW OVER HEATING COIL.
7. ISOLATION VALVE WITH HANDLE EXTENSION - PROVIDE DI-ELECTRIC UNION IF DISSIMILAR PIPING MATERIAL USED.
8. STRAINER
9. AUTOMATIC BALANCING VALVE WITH PRESSURE TEST PORT AND MEMORY STOP CONTROL VALVE (2 WAY OR 3 WAY W/ BYPASS, SEE TEMPERATURE CONTROL SPECIFICATION)
10. INSULATION
11. SUPPLY AND RETURN LINES, COPPER, WITH REHEAT COIL SECTION
12. REHEAT COIL SECTION
13. MANUAL AIR BLEEDER VALVE AT HIGHEST POINT OF PIPING TO BOX. INCLUDE 1/2" SOFT COPPER TUBING FROM BLEEDER VALVE IN A U SHAPE WITH THE DISCHARGE DIRECTED DOWNWARD.
14. STRAIGHT SHEET METAL DUCT INTO VAV BOX, MINIMUM LENGTH OF 3 TIMES INLET DUCT DIAMETER

GENERAL NOTES:

A. OMIT FLEX DUCT ON DISTRIBUTION SYSTEMS THAT PENETRATE 1-HR FIRE BARRIERS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE BARRIERS.

233613.00-05 - VAV BOX W HOT WATER HEAT
SCALE: NONE



KEYED NOTES:

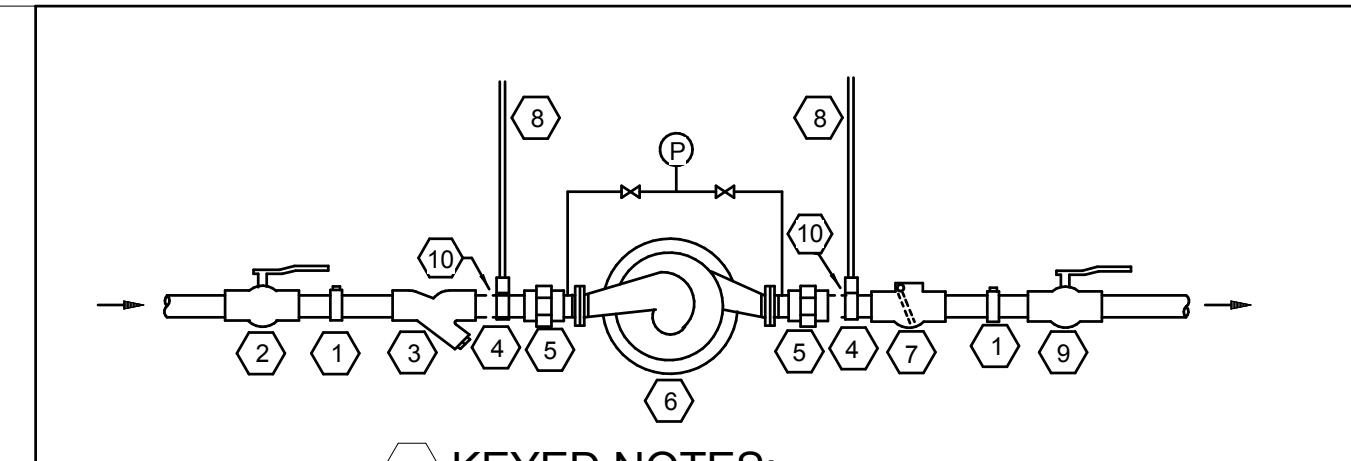
1. ROUGHEN FLOOR
2. FINISHED FLOOR
3. REBAR
4. CONCRETE BASE
5. 45° CHAMFER ALL FOUR SIDES
6. SECURE PAD TO FLOOR

GENERAL NOTES:

A. CONCRETE BASE SHALL BE 4" LARGER ALL AROUND THAN THE BASE OF THE EQUIPMENT BEING SUPPORTED.

B. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL CONCRETE FASDS WITH GENERAL CONTRACTOR.

233113.00-01 - 4 INCH CONCRETE BASE
SCALE: NONE



KEYED NOTES:

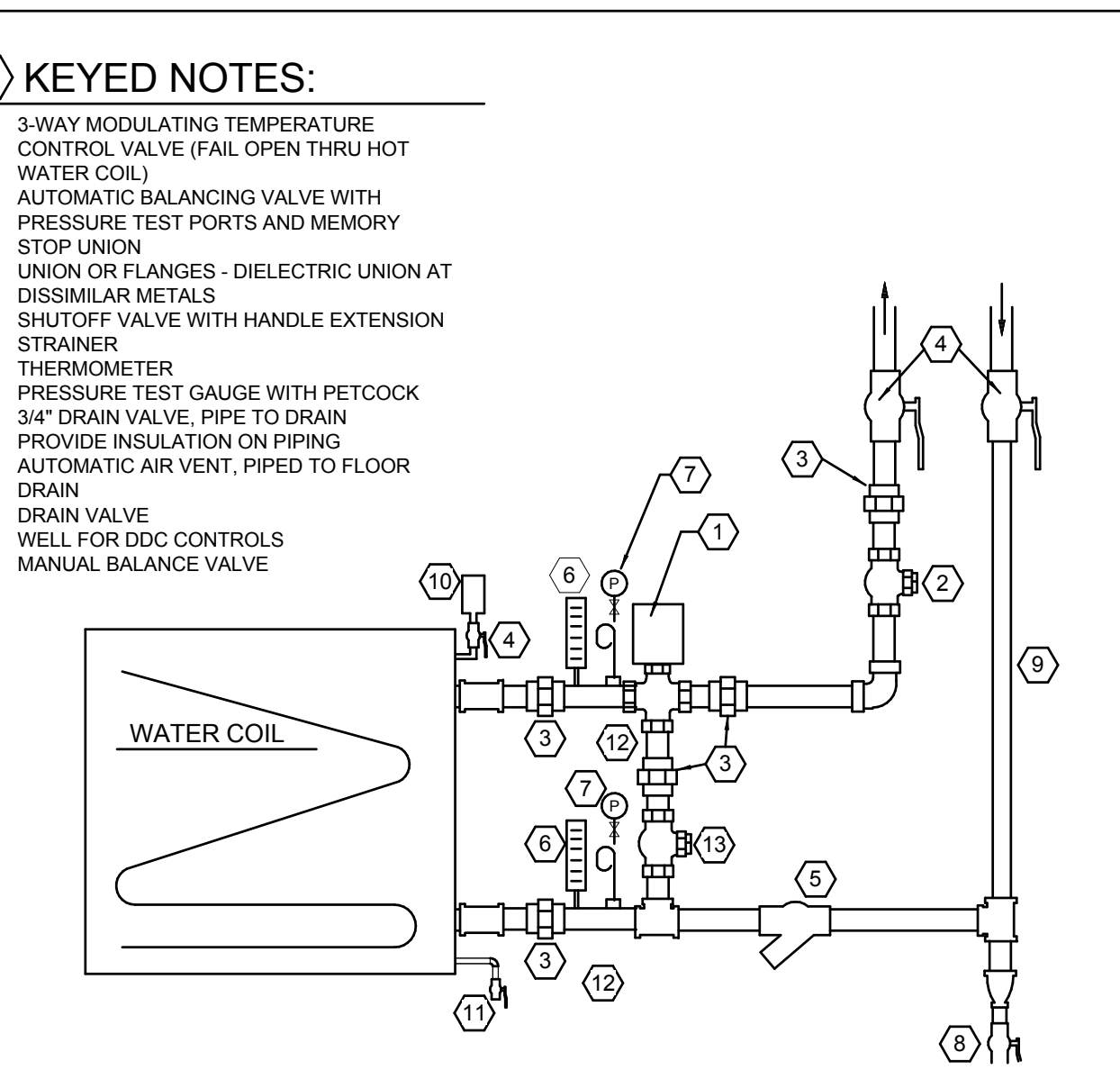
1. COMBINATION PRESSURE/TEMPERATURE TEST PLUG
2. SHUTOFF VALVE WITH HANDLE EXTENSION AND VALVE TAGS
3. STRAINER
4. CLEVIS HANGER
5. UNION
6. PUMP AND MOTOR WITH EQUIPMENT LABEL
7. CHECK VALVE
8. CLEVIS HANGER AND ROD. SECURE TO BUILDING STRUCTURE. DOUBLE NUT WITH PRESSURE/THERMOMETER TEST PORT
9. SHUTOFF/AUTOMATIC BALANCING VALVE
10. REDUCER, IF REQUIRED

GENERAL NOTES:

A. INSULATE PIPING

B. INSULATE CHILLED WATER IMPELLER HOUSING

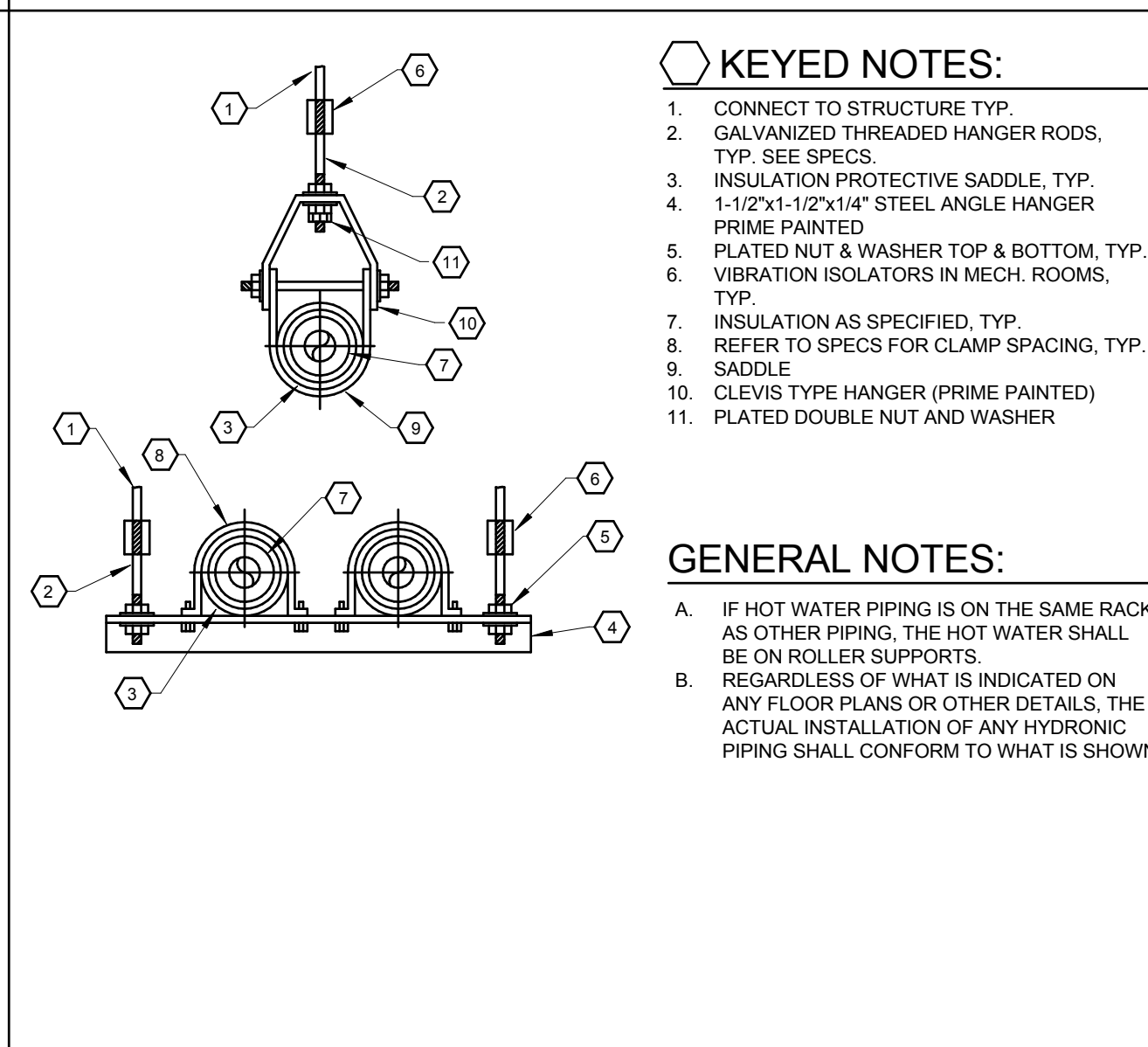
232123.13-01 - INLINE PUMP A
SCALE: NONE



KEYED NOTES:

1. 3-WAY MODULATING TEMPERATURE CONTROL VALVE (FAIL OPEN THRU HOT WATER COIL)
2. AUTOMATIC BALANCING VALVE WITH PRESSURE TEST PORTS AND MEMORY STOP UNION
3. UNION OR FLANGES - DIELECTRIC UNION AT DISSIMILAR METALS
4. SHUTOFF VALVE WITH HANDLE EXTENSION
5. STRAINER
6. THERMOMETER
7. PRESSURE TEST GAUGE WITH PETCOCK
8. 3/4" DRAIN VALVE, PIPE TO DRAIN
9. PROVIDE INSULATION ON PIPING
10. AUTOMATIC AIR VENT, PIPED TO FLOOR DRAIN
11. DRAIN VALVE
12. WELL FOR DDC CONTROLS
13. MANUAL BALANCE VALVE

232113.23-18 - WATER COIL PIPING DIAGRAM 3-WAY
SCALE: NONE



KEYED NOTES:

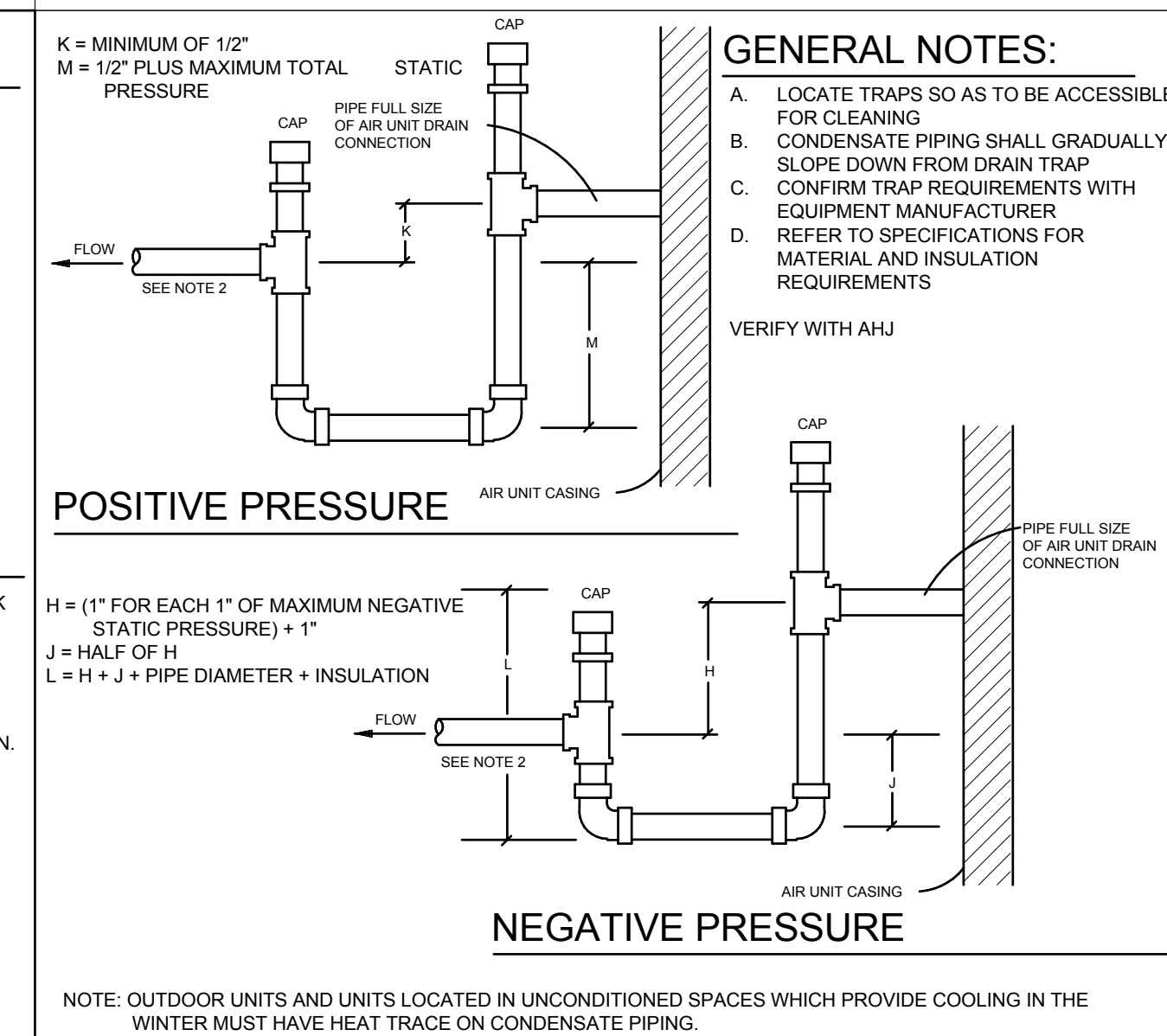
1. CONNECT TO STRUCTURE TYP.
2. GALVANIZED THREADED HANGER RODS, TYP. SEE SPECS
3. INSULATION PROTECTIVE SADDLE, TYP.
4. 1-1/2"x1-1/2"x1/4" STEEL ANGLE HANGER PRIME PAINTED
5. PLATED NUT & WASHER TOP & BOTTOM, TYP.
6. VIBRATION ISOLATORS IN MECH. ROOMS, TYP.
7. INSULATION AS SPECIFIED, TYP.
8. REFER TO SPECS FOR CLAMP SPACING, TYP.
9. SADDLE
10. CLEVIS TYPE HANGER (PRIME PAINTED)
11. PLATED DOUBLE NUT AND WASHER

GENERAL NOTES:

A. IF HOT WATER PIPING IS ON THE SAME RACK AS OTHER PIPING, THE HOT WATER SHALL BE ON ROLLER SUPPORTS.

B. REGARDLESS OF WHAT IS INDICATED ON ANY FLOOR PLANS OR OTHER DETAILS, THE ACTUAL INSTALLATION OF ANY HYDRONIC PIPING SHALL CONFORM TO WHAT IS SHOWN.

232113.23-14 - PIPE HANGERS (TYPICAL)
SCALE: NONE



GENERAL NOTES:

A. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING

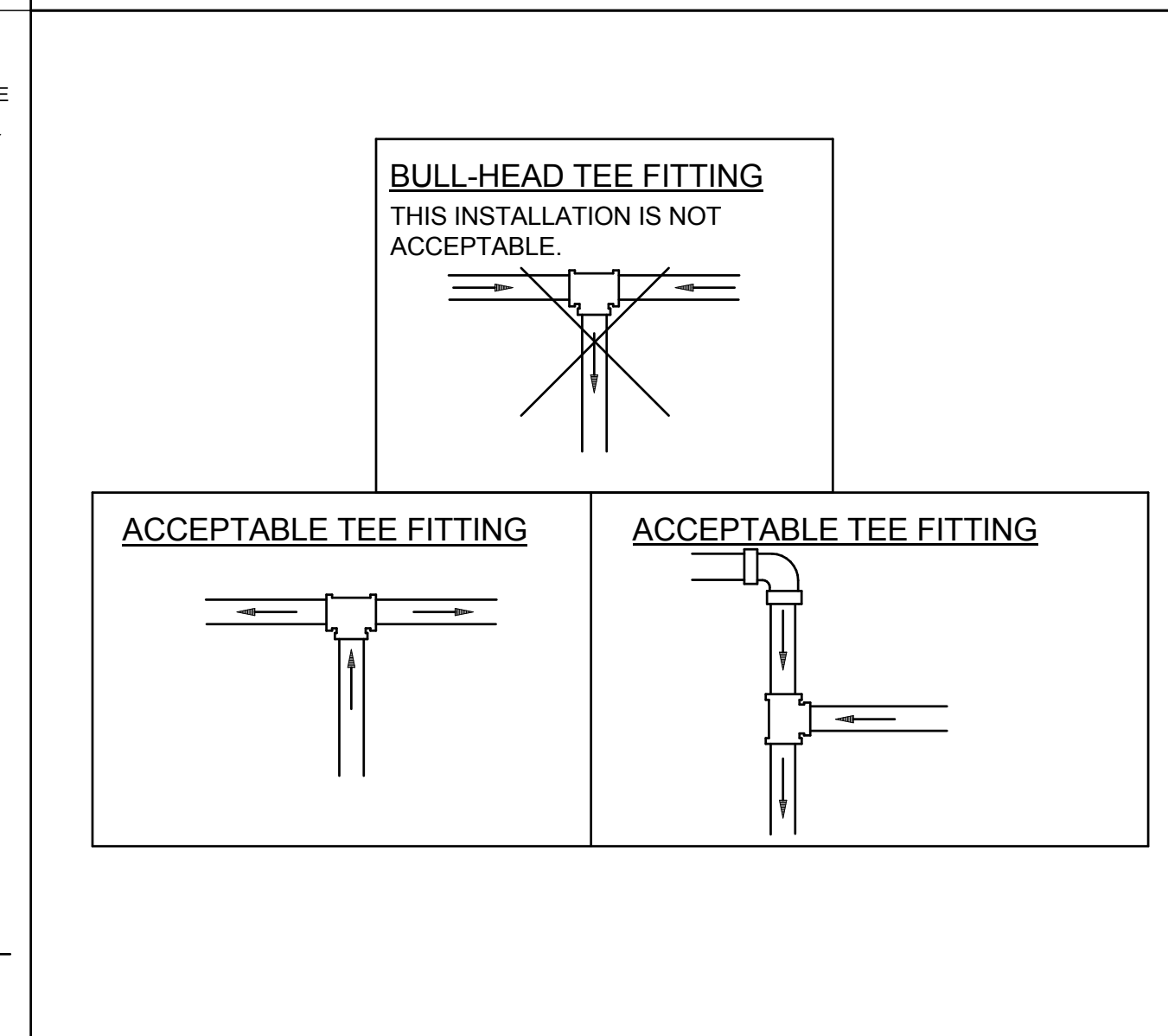
B. CONDENSATE PIPING SHALL GRADUALLY SLOPE DOWN FROM DRAIN TRAP

C. CONFIRM TRAP REQUIREMENTS WITH EQUIPMENT MANUFACTURER

D. REFER TO SPECIFICATIONS FOR MATERIAL AND INSULATION REQUIREMENTS

VERIFY WITH AHJ

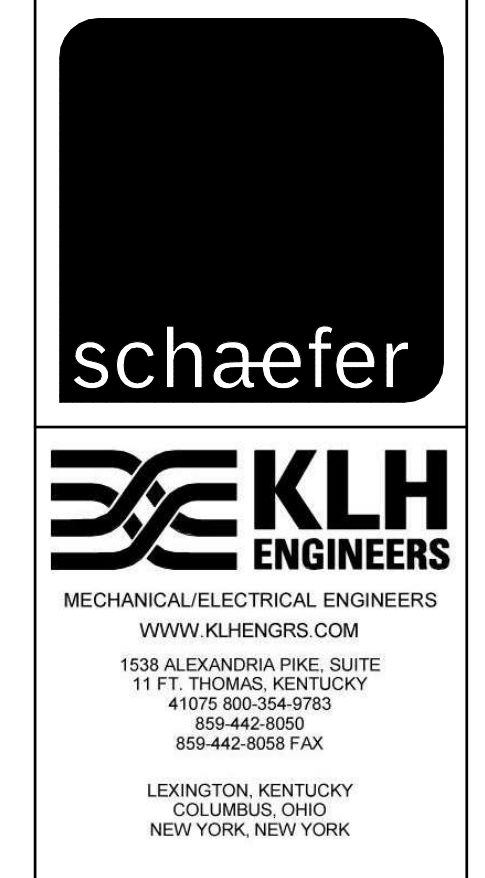
232113.23-05 - CONDENSATE DRAIN TRAP POSITIVE & NEGATIVE
SCALE: NONE



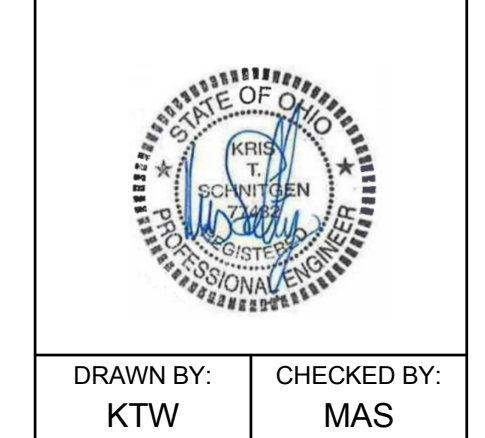
BULL-HEAD TEE FITTING
THIS INSTALLATION IS NOT ACCEPTABLE.

ACCEPTABLE TEE FITTING

232113.23-01 - ACCEPTABLE TEE FITTINGS
SCALE: NONE



No.	Description	Date
1	BID & PERMIT	07/14/17



DRAWN BY: KTW
CHECKED BY: MAS

MECHANICAL - DETAILS
DATE: July 14, 2017

M-501

Unit construction - exterior details

Customer tag number : AHU-1
Job number : 017534

General

Unit type : Indoor
Unit configuration : Modular

Floor construction

Supporting structure : A level and flat surface
Perimeter material : Galvanized G90
Perimeter finish : Texture bone white (PT311W564)
Floor underliner material : Galvanized G90
Insulation : HeatLok Soy Polyurethane
Floor R-Value : R-19.5

Cabinet construction

Panel type : No Thru-Metal
Panel thickness : 3"
External liner : Galvanized G90 18 ga
External liner finish : Texture bone white (PT311W564)
Insulation : HeatLok Soy Polyurethane
Wall R-Value : R-19.5
External hardware : Stainless steel



Unit construction - interior details

Customer tag number : AHU-1
Job number : 017534

General internal construction

Internal wall liner : Galvanized G90 22 ga
Internal finish : Solid
Internal paint : White anti-microbial (PS241W460AM)
Internal floor liner : Alum. checkered plate 10 ga
Internal seal : White silaprene
Internal hardware : Stainless steel

Atypical sections

Section E: Chilled water coil section
Internal wall liner : **Stainless steel 304-2B 22 ga**
Internal finish : Solid
Internal paint : **Not painted**
Internal floor liner : **Stainless steel 304-2B 16 ga**
Internal seal : **Grey silaprene**
Internal hardware : **Stainless steel**

Internal construction details

Section B: Return fan section
Blanking wall : Galvanized G90
Blank paint : White anti-microbial (PS241W460AM)
Section D: Front loading filter section
Filter frame : Galvanized G90
Blank paint : White anti-microbial (PS241W460AM)
Section E: Chilled water coil section
Rack : Stainless steel 304-2B
Rack Paint : Not painted ()
Coil Blank : Stainless steel 304-2B
Blank paint : Not painted ()
Section G: Supply fan section
Blanking wall : Galvanized G90
Blank paint : White anti-microbial (PS241W460AM)



Electrical equipment summary

Customer tag number : AHU-1
Job number : 017534

General electrical specifications

Conduit type : EMT galvanized
Minimum conduit size : 1/2 inch
Minimum wire size : #14 AWG

Electrical and controls equipment summary

Equipment	Model	Quantity	Amp	V/Ph/Hz	Supplied by	Installed by	Wired by
Breaker panel	Q024L70TS 240V 70A 2 space load center (NEMA 1) - Q024L70TS	1	70	120/1/60	Ingenia	Ingenia at the factory	Ingenia
Light fixture kit	Marine light fixture / LED 10 watts, 120VAC	5	0.11	120/1/60	Ingenia	Ingenia at the factory	Ingenia
Light switch kit	Indoor single pole switch with pilot light 15A, 120VAC - 1/2" conduit	1	15	120/1/60	Ingenia	Ingenia at the factory	Ingenia
Main electrical panel	Fan Electrical Panel	1	--	460/3/60	Ingenia	Ingenia at the factory	Ingenia
Motor	Motor - Ziehl Abegg EC - 2.4 KW	4	3.10	460/3/60	Ingenia	Ingenia at the factory	Ingenia
Motor	Motor - Ziehl Abegg EC - 5.6 KW	4	7.10	460/3/60	Ingenia	Ingenia at the factory	Ingenia
Receptacle kit	Indoor GFCI Duplex 15A, 120VAC - 1/2" Conduit	1	15	120/1/60	Ingenia	Ingenia at the factory	Ingenia



Schott Hall Admissions Office
Renovation Phase II
1496 Dana Ave Cincinnati, Ohio 45207



OFFICE OF PHYSICAL PLANT
XAVIER UNIVERSITY
3800 VICTORY PARKWAY
CINCINNATI, OH 45207
513-745-1967



MECHANICAL/ELECTRICAL ENGINEERS
WWW.KLHENGRS.COM
1538 ALEXANDRIA PIKE, SUITE 11 FT. THOMAS, KENTUCKY 41075 800-354-9783 859-442-8999 859-442-8058 FAX
LEXINGTON, KENTUCKY COLUMBUS, OHIO NEW YORK, NEW YORK

No.	Description	Date
1	BID & PERMIT	07/14/17



DRAWN BY: MAS
CHECKED BY: KTW

MECHANICAL - DETAILS

DATE
July 14, 2017

M-502

compact edition

FANselect

fan data

version: FANselect V.1.01 (170602), AMCA V.1.01 May, 2015 / 1.17.06.02 | 20110 | (user: ZAF310110) 02.06.2017

GR40C-ZID DC CR

type: GR40C-ZID DC CR
article no.: 115514/A01 | Portfolio STD-WW

technical data

motor	ECblue
mains supply	3-460V 60Hz
ambient temperature, max. limit (t _a)	40 °C
efficiency η _{total}	68.3 %
efficiency η _{motor} η _{system}	74.9 62 %
IEP-conformity	2015 EC controller integrated
grille influence	no no

fan data

SFP-class SFP-value (P _{SPF})	- Ws/m³	3 877
airflow volume (q _v)	m³/min	3750.0
pressure, stat. (p _{st}) tot. (p _t)	in.wg.	2.000 2.321
electrical power input (P _{el})	W	1553
system eff., stat. (η _{stat}) tot. (η _{tot})	%	56.8 65.9
fan speed (n) max. (n _{max})	rpm	2170 2400
fan speed, set value (%n _{max})	%	90
frequency (f _{sp}) (f _{max})	Hz	60 60
voltage (U _{sp})	V	460
current (I _{sp})	A	2.15
acoustics, suction side (L _{WA,S}) (L _{WA,S})	dB	79 83
acoustics, pressure side (L _{WA,P}) (L _{WA,P})	dB	85 87
dimensions (w x h x d)	mm	550 x 550 x 355
product weight (m _p)	kg	24
x-factor nozzle pres. (k)	-	154
differential pres. nozzle (p _{diff-nozzle})	Pa	1712

nominal values

3-380-480V 60Hz PT 2.40kW
3.90-3.10A 2400MIN 40°C
3-380-480V 60Hz PT 2.40kW
3.90-3.10A 2400MIN 40°C
IP54 THCL155

compact edition

FANselect

performance curve / acoustics

version: FANselect V.1.01 (170602), AMCA V.1.01 May, 2015 / 1.17.06.02 | 20110 | (user: ZAF310110) 02.06.2017

GR40C-ZID DC CR measured in standard nozzle in installation type A according to ISO 5801 measurement density 0.072 (lbs/ft³)

air performance p_F

acoustics (L_{WA,S})

acoustics (L_{WA,P})

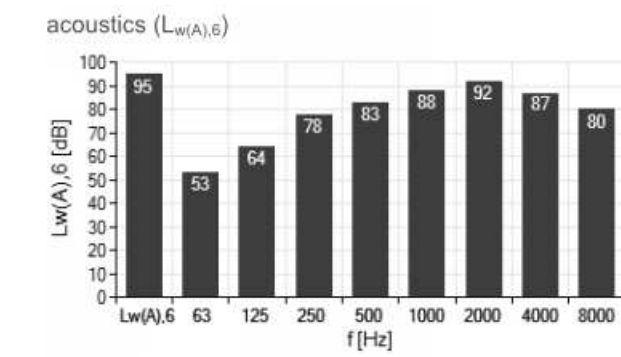
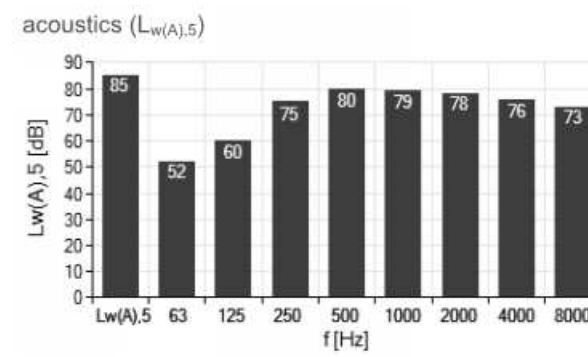
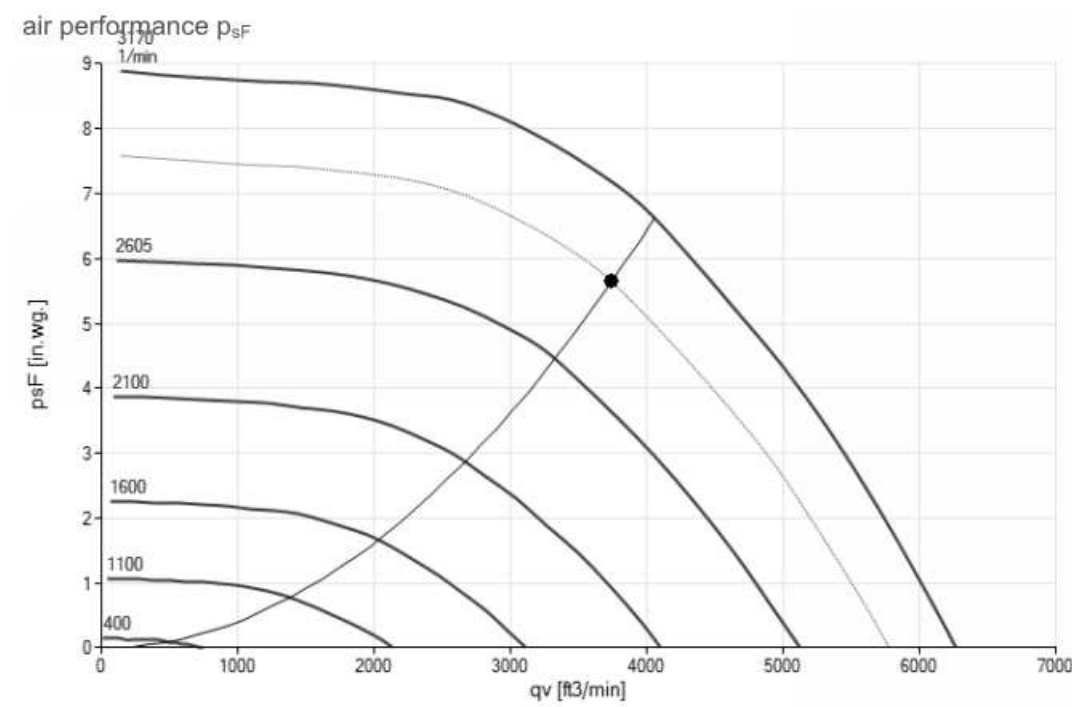
f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
L _{WA,S}	79	45	54	70	71	70	71	69	75
L _{WA,P}	85	46	57	74	76	81	78	74	77

C:\Users\ghansing\Documents\18815-15-MEP-Schott Hall Renovations Phase II_kwaymeyer.rvt 7/21/2017 2:24:19 PM



Technical data table for fan model GR40C-ZID.GG.CR, including motor, supply, efficiency, fan data, and dimensions.

GR40C-ZID.GG.CR measured in standard nozzle in installation type A according to ISO 5801 measurement density 0.072 [lbs/ft³]



Acoustics data table for model GR40C-ZID.GG.CR at various frequencies.

CHILLED WATER COIL REPORT



Contact information for Direct Coil, including address and phone numbers.

Company, Contact, Tel, Fax or Email, Date, Reference, Prepared By, Project Name.

Coil Tag: 017534_CC_E, Coil Model Number: SW-06-27.0-09-80.0-13

Physical Data and Air Data tables detailing coil specifications and performance metrics.

Capacity table showing total and sensible capacity.

Notes section regarding AHRI certification and testing standards.



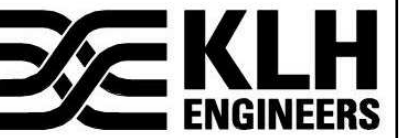
Software version: 0.99.8075

Schott Hall Admissions Office Renovation Phase II

1496 Dana Ave Cincinnati, Ohio 45207



Office of Physical Plant, Xavier University, Cincinnati, OH 45207



Mechanical/Electrical Engineers, KLH Engineers, Lexington, Kentucky

Revision table with columns for No., Description, and Date.

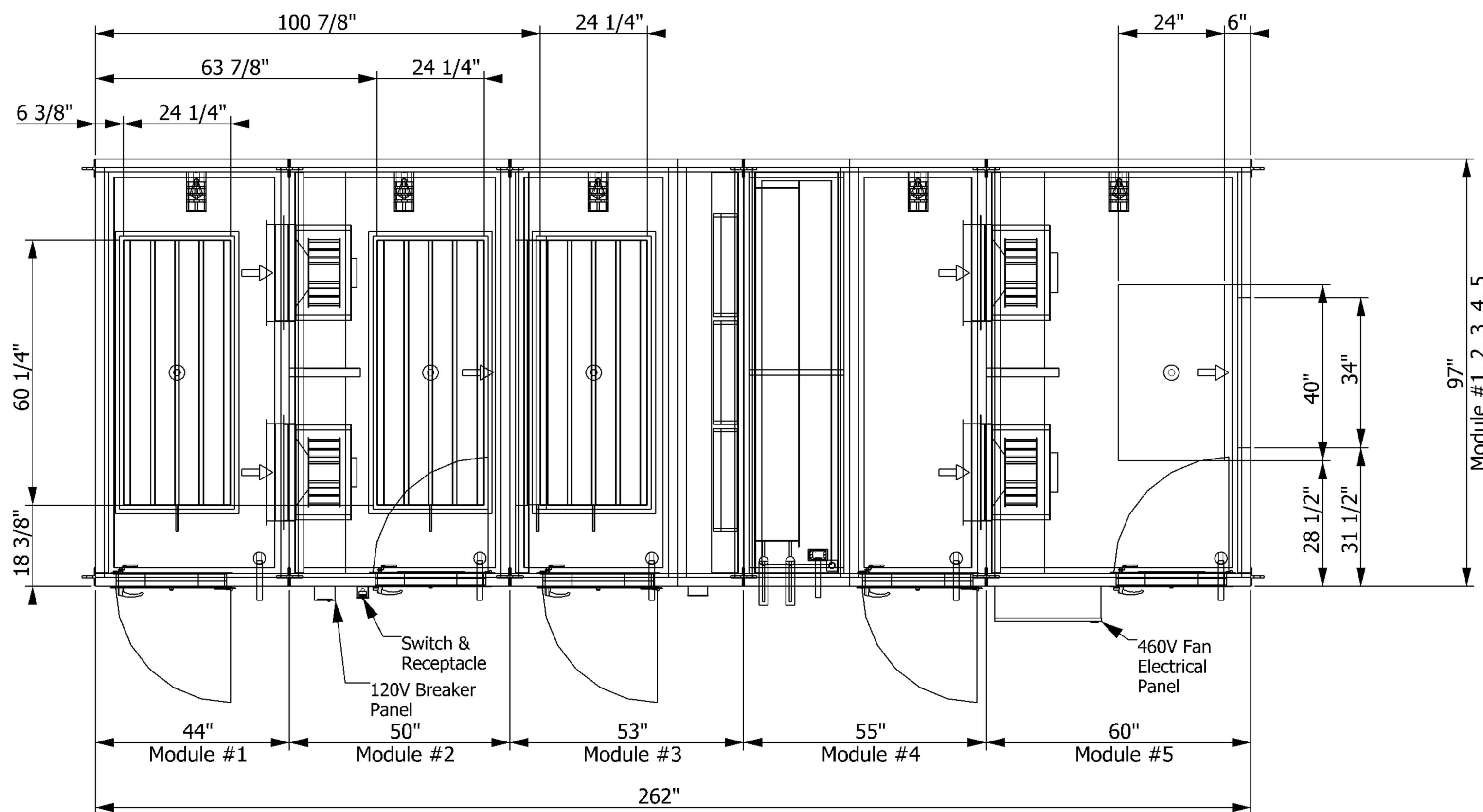
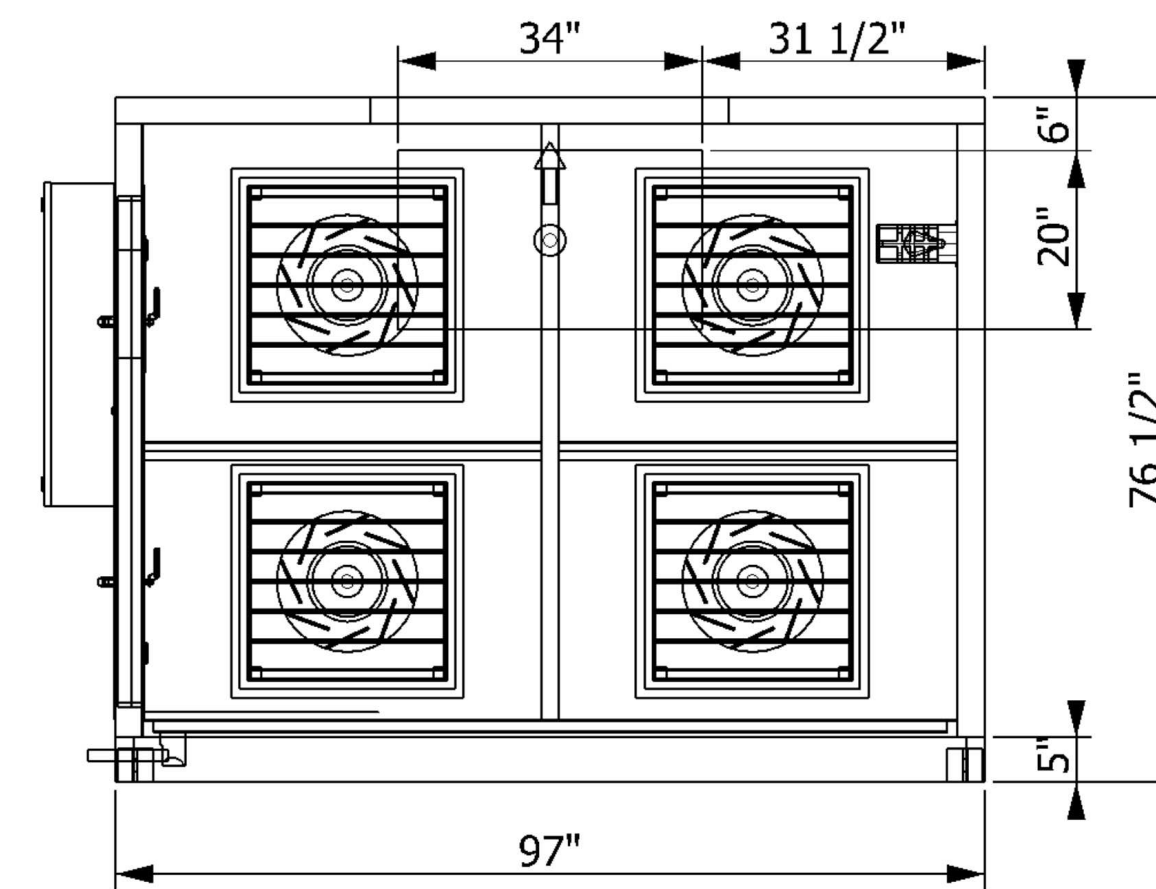
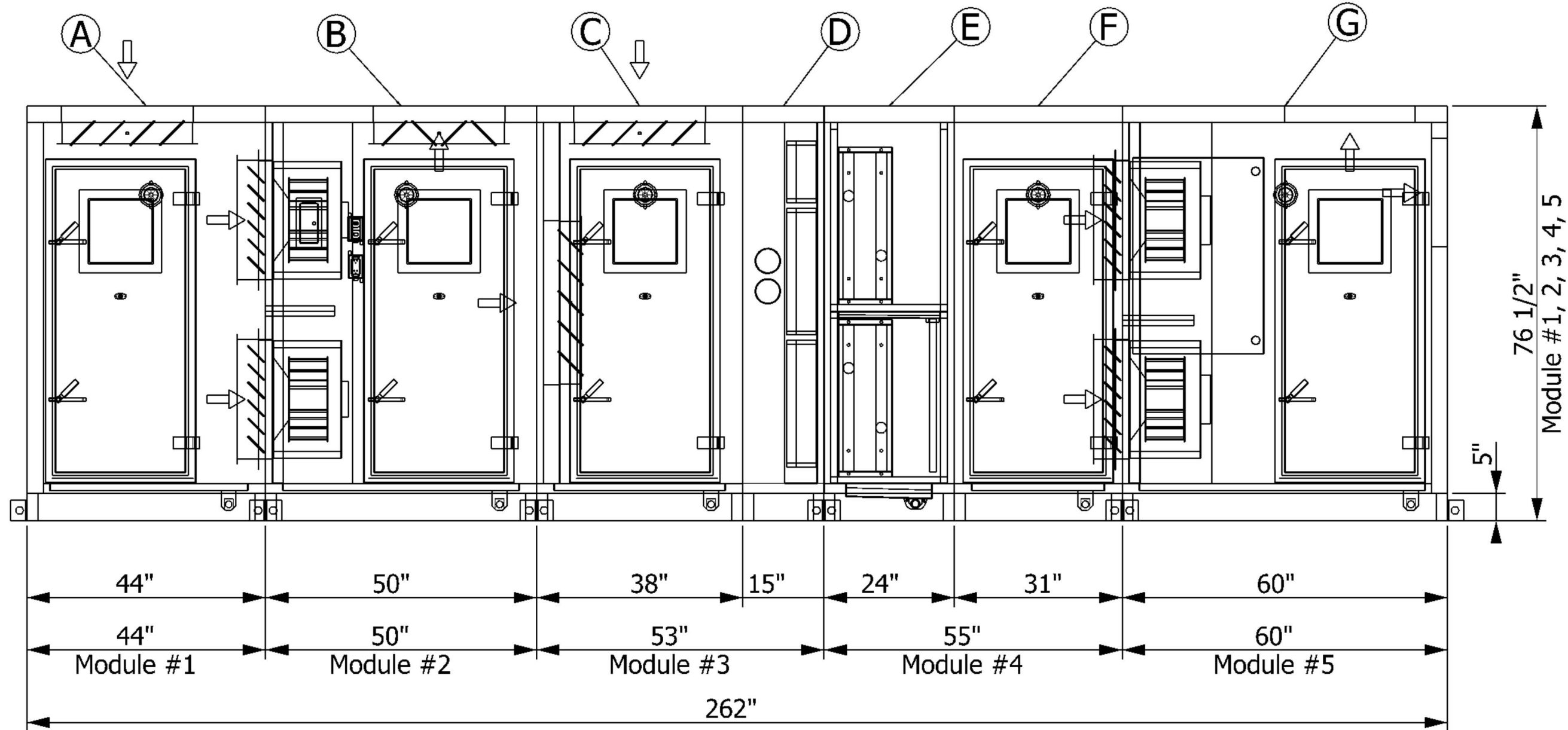


Drawn by: MAS, Checked by: KTW

MECHANICAL - DETAILS

DATE: July 14, 2017

M-503



UNIT SHALL BEAR ETL LABEL
 THIS UNIT WILL BE SHIPPED IN 5 MODULE(S)
 THIS UNIT WILL BE INSTALLED ON A LEVEL AND FLAT SURFACE.
 THE CABINET DESIGN PRESSURE IS 8 S.P.
 UNIT SUPPORTING SURFACE MUST BE LEVELED BEFORE INSTALLATION.
 LIFTING LUGS ARE REMOVABLE AND EXTEND PAST THE BASE BY 3"

#	Date	By	Revision no
0	22 Jun 2017	nbe	

Description

A : Return air plenum section
 DAMP1_A : Control damper Model : 1000
 Manufacturer : Tamco Dims (H x W) : (24x60)"
 Door op. dim (W x H) : (24x56)"
 Door handles : Allegis (glass reinforced nylon) - non-lockable
 Test port : PTP-1

B : Return fan section
 Manufacturer : Ziehl Abegg (GR-EC) Size : GR40C
 Quantity of blowers : 4 Wheel width (%) : 100%
 Arr. : A04 Wheel diameter (%) : 100%
 DAMP1_B : Backdraft damper Dims (H x W) : (22x22)"
 Manufacturer : Tamco Quantity : 4
 Model : 7600

DAMP1_B : Control damper Model : 9000
 Manufacturer : Tamco Dims (H x W) : (24x60)"
 Door op. dim (W x H) : (24x56)"
 Door handles : Allegis (glass reinforced nylon) - non-lockable
 Test port : PTP-1

C : Mixing box section
 DAMP1_C : Control damper Model : 9000
 Manufacturer : Tamco Dims (H x W) : (24x60)"
 DAMP2_C : Control damper Model : 1000
 Manufacturer : Tamco Dims (H x W) : (30x60)"
 Door op. dim (W x H) : (24x56)"
 Door handles : Allegis (glass reinforced nylon) - non-lockable
 Test port : PTP-1

D : Front loading filter section
 Pre-filter : AAF Perfect Pleat, MERV 7
 Qty/Dim (WxHxD) : 6x(24x24x2)", 3x(24x12x2)"
 Filter : AAF PREpleat M13, MERV 13
 Qty/Dim (WxHxD) : 6x(24x24x4)", 3x(24x12x4)"
 Loading : Front loading
 Face velocity : 500 FPM
 Manufacturer : Dwyer Quantity : 2
 Model : Dwyer 2002

E : Chilled water coil section
 Type : Chilled water coil Connections : Ø 2" M.P.T.
 Manufacturer : Direct Coil Con. Material : Steel
 Quantity : 2 Dims (H x L x D) : (27x80x10)"
 Number of rows : 6 Downspout material : PVC
 Model : 5W-06-27.0-09-80.0-13

F : Access Section
 Door op. dim (W x H) : (24x56)"
 Door handles : Allegis (glass reinforced nylon) - non-lockable
 Test port : PTP-1

G : Supply fan section
 Manufacturer : Ziehl Abegg (GR-EC) Size : GR40C
 Quantity of blowers : 4 Wheel width (%) : 100%
 Arr. : A04 Wheel diameter (%) : 100%
 DAMP1_G : Backdraft damper Dims (H x W) : (22x22)"
 Manufacturer : Tamco Quantity : 4
 Model : 7600
 Door op. dim (W x H) : (24x56)"
 Door handles : Allegis (glass reinforced nylon) - non-lockable
 Test port : PTP-1

Unit Layout	
Project :	XU Schott Hall
Project Location :	Cincinnati, OH
Consulting Engineer :	
Sales Office :	ElitAire CFM : 15000
Model :	CAH-3-NTM-PU-76.5x97.0-I Unit Tag : AHU-1
Ingenia SO # :	102201 Drawn by : emessore
Ingenia Job # :	017534 Dwg No. : IN0249
Sales Representative :	Erica Messore Type : Indoor
Date :	Scale : N.T.S. Version : 79.1 Sheet : 1 / 1 Rev : 1



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No.	Description	Date
1	BID & PERMIT	07/14/17



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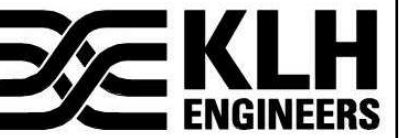
MECHANICAL - DETAILS

DATE July 14, 2017

M-504



OFFICE OF PHYSICAL PLANT
XAVIER UNIVERSITY
3800 VICTORY PARKWAY
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MECHANICALELECTRICAL ENGINEERS
WWW.KUHENGERS.COM
1538 ALEXANDRA PIKE, SUITE 11
11 FT. THOMAS, KENTUCKY
41075 800-354-9783
859-442-8995
859-442-8058 FAX
LEXINGTON, KENTUCKY
COLUMBUS, OHIO
NEW YORK, NEW YORK

No.	Description	Date
1	BID & PERMIT	07/14/17

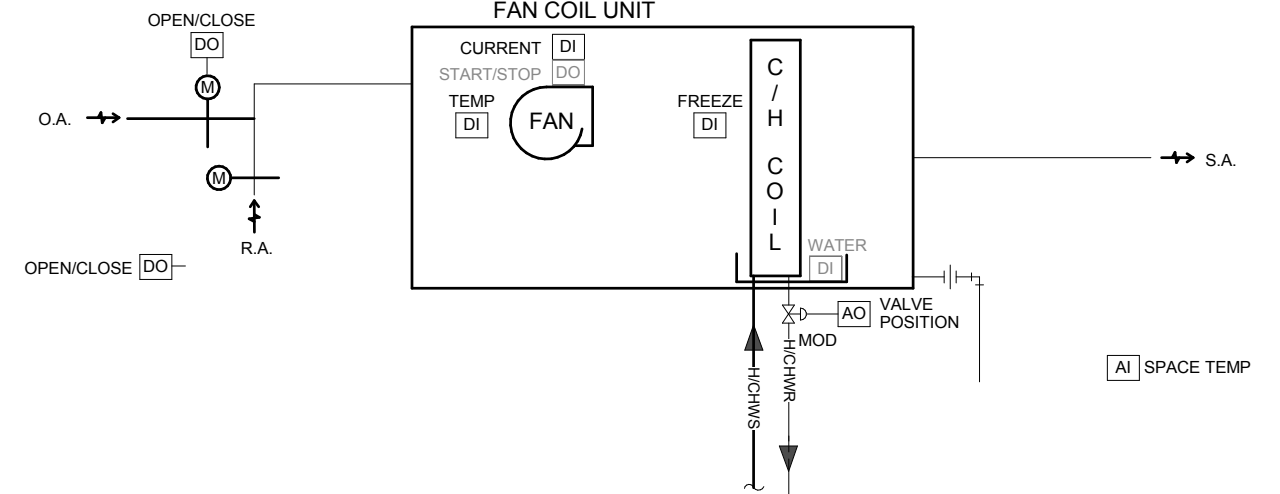


DRAWN BY: MAS
CHECKED BY: KTW

MECHANICAL - DETAILS

DATE
July 14, 2017

M-505



GENERAL NOTES:

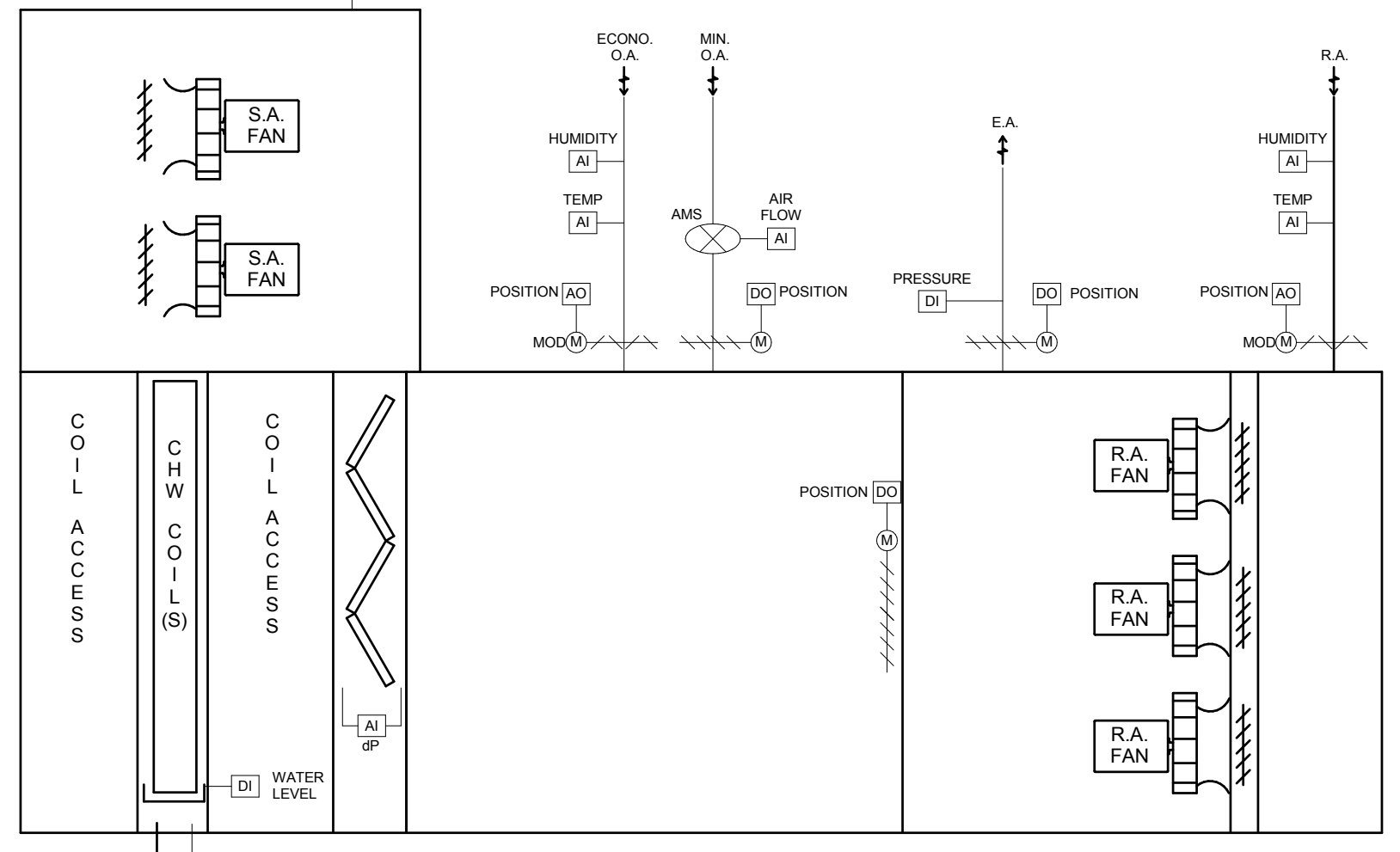
- ALL ANALOG INPUTS (AI) SHALL BE CONFIGURED BY USER FOR HIGH AND LOW LIMITS.
 - ALL DIGITAL OUTPUTS (DO) FOR ELECTRIC MOTOR LOADS SHALL INCORPORATE RUN TIME TOTALIZATION.
- [AI] GRAY SENSOR INDICATES DEVICE IS PROVIDED BY EQUIPMENT MANUFACTURER
 - [AI] BLACK SENSOR INDICATES DEVICE IS PROVIDED BY TEMPERATURE CONTROLS CONTRACTOR

- #### SEQUENCE OF OPERATION
- A. 1.1 CV Fan Coil Unit (HW/CW, Supply Fan only)
- General
 - a. Provide two-way, failsafe closed, modulating control valve for chilled water coils. Provide two-way, failsafe open, modulating control valve for hot water coils. All setpoints listed in this section are adjustable through the BAS.
 2. Startup
 - a. During the "start-up" cycle the fan shall run with the dampers in the full recirculation position. Provide morning warm-up sequence with optimum start function. When the return air temperature reaches setpoint (86 deg F adjustable), the minimum outside air damper shall open to the controlled minimum outside air position.
 3. Supply Fan Control
 - a. The supply fan shall run continuously at constant speed. Provide a high limit static pressure sensor in the supply fan discharge that will alarm the system and fail safe the fan coil unit with manual reset on a high limit of 4.0" (adjustable). Provide a current transducer to prove fan operation. Provide a high limit current cutoff for the transducer that will alarm the system.
 - b. Control and monitoring points shall include but not be limited to the following:
 - Supply Fan motor start/stop (DO)
 - Supply Fan motor current status (DI)
 - Supply Fan static pressure (DI)
 4. Minimum Outside Air Control
 - a. Provide a modulating motor operated damper on the outside air duct. During occupied mode, the outside air damper shall open. During unoccupied mode, the outside air damper shall close.
 - b. Control and monitoring points shall include but not be limited to the following:
 - Outside air damper position (% open) (AO)
 5. Economizer Control
 - a. Provide dual enthalpy economizer control. Economizer control shall be enabled whenever the outside air enthalpy is lower than the return air enthalpy. Enthalpy shall be calculated from sensors which are tied to the same controller for accuracy. During economizer mode, the economizer damper shall be set at 100% (open). The economizer damper shall modulate open on a call for cooling and modulate closed on a call for heating. The return damper shall modulate inversely with the economizer damper.
 - b. Control and monitoring points shall include but not be limited to the following:
 - Outside air temperature (AI)
 - Outside air humidity (AI)
 - Return air temperature (AI)
 - Return air humidity (AI)
 - Return air damper position (% open) (AO)
 - Economizer damper position (% open) (AO)
 6. Cooling Control
 - a. Cooling shall be controlled to maintain space temperature setpoint. When chilled water is available, on a call for cooling the dual temperature water valve shall modulate open. When chilled water is not available, the dual temperature water valve shall be closed and economizer mode shall be active.
 - b. Control and monitoring points shall include but not be limited to the following:
 - Dual temp water valve position (% open) (AO)
 7. Heating Control
 - a. Heating shall be controlled to maintain space temperature setpoint. When hot water is available, on a call for heating the dual temperature water valve shall modulate open. When hot water is not available, the dual temperature water valve shall be closed.
 - b. Control and monitoring points shall include but not be limited to the following:
 - Dual temp water valve position (% open) (AO)
 8. Mixed Air Low Limit Control
 - a. Provide a mixed air low limit whenever the mixed air temperature drops below 40 deg. F dry bulb that will alarm the system, close the outside air damper.
 - b. Control and monitoring points shall include but not be limited to the following:
 - Mixed air temperature (DI)
 9. Freeze Stat Control
 - a. A low temperature cutoff thermostat located in the discharge of the cooling coil, will alarm the system and put the air handler in fail safe position when the temperature falls below 37 degrees. Provide an adjustable time delay of 5 minutes for start-up. The low temperature cutoff thermostat shall require manual reset.
 - b. Control and monitoring points shall include but not be limited to the following:
 - Freeze-stat status (GA)
 10. Unoccupied Mode
 - a. During the unoccupied mode of operation, the outdoor air damper shall be closed. The Supply Fan shall be cycled to maintain the space temperature setback at a setpoint range of 55-60 deg. F (adjustable) during the heating season and 80 deg. F (adjustable) during the cooling season. Occupancy shall be predetermined by the Owner and programmed into the BAS.
 11. Shut Down
 - a. At shutdown the air handler shall go to fail safe position. Fail safe position is defined by the following: The supply fan is off, the minimum outside air damper is closed, the heating valve is open and the cooling valve is closed.

23T-015 - FAN COIL UNIT
SCALE: NONE

GENERAL NOTES:

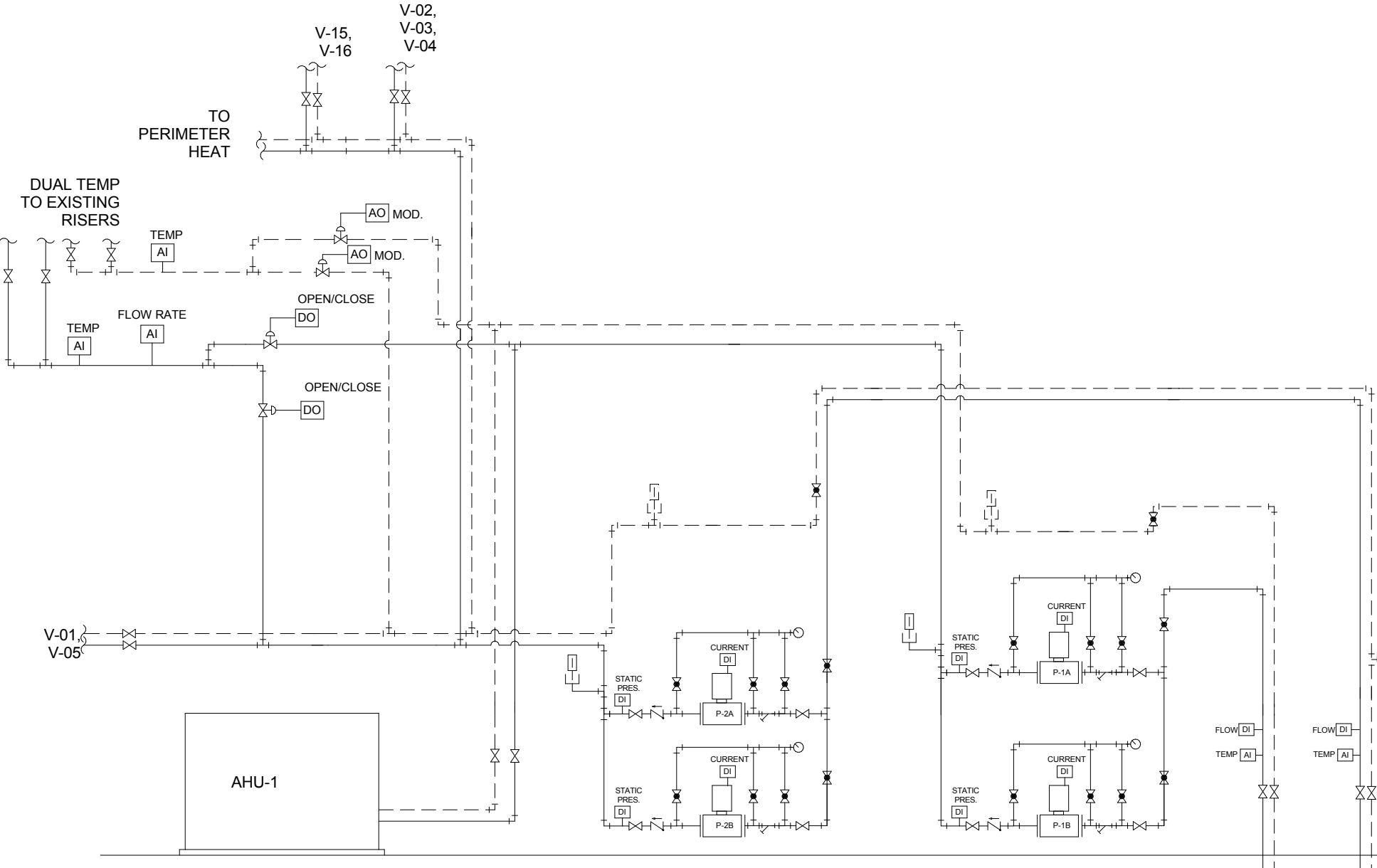
- ALL ANALOG INPUTS (AI) SHALL BE CONFIGURED BY USER FOR HIGH AND LOW LIMITS.
 - ALL DIGITAL OUTPUTS (DO) FOR ELECTRIC MOTOR LOADS SHALL INCORPORATE RUN TIME TOTALIZATION.
- [AI] GRAY SENSOR INDICATES DEVICE IS PROVIDED BY EQUIPMENT MANUFACTURER
 - [AI] BLACK SENSOR INDICATES DEVICE IS PROVIDED BY TEMPERATURE CONTROLS CONTRACTOR



SEQUENCE OF OPERATIONS VAV AIR HANDLING UNIT

- General
 - a. Provide three-way, fail close, modulating control valve for chilled water coil. All setpoints listed in this section are adjustable through the BAS. Control and monitoring points shall include but not be limited to the following:
2. Shutdown / Startup
 - a. At shutdown the air handler shall be at fail safe position. Fail safe position is defined by the following: The supply and relief/exhaust fans are off, the return air damper is fully open, the outside air damper and relief/exhaust air dampers are closed, the heating valve is open to the heating coil, and the cooling valve is closed. At startup, the supply and relief/exhaust fans shall be ramped up to operational speed. After a 5 minute time delay the minimum outside air control shall be enabled.
3. Supply Fan Control
 - a. The supply fan VFD speed shall be controlled from a duct static pressure sensor located 2/3 downstream in ductwork. Where this results in sensor being located downstream of major ductwork splits, multiple sensors shall be installed in each major branch to maintain minimum setpoint in each branch.
 - b. The supply fan shall be modulated to operational speed to maintain static pressure setpoint of 1.0" (adjustable). When the sensor measures low pressure, the supply fan shall be ramped up to maintain setpoint. When the sensor measures high pressure, the supply fan shall be ramped down to maintain setpoint.
 - c. For systems with DDC control of individual zone boxes reporting to a central control system, static pressure setpoint shall be reset based on the zone requiring the most pressure. In this way the setpoint is reset lower until one zone damper is nearly wide open to save fan energy.
 - d. Provide a high limit static pressure sensor in the supply fan discharge that will alarm the system and fail safe the air handler with manual reset on a high limit of 4.0" (adjustable). Provide a current transducer to prove fan operation. Provide a high limit current cutoff for the transducer that will alarm the system.
 - Supply Fan motor enable/disable (CO)
 - Supply Fan motor current (AI)
 - Supply Fan VFD Speed controller (% max. speed) (AO)
 - Supply air discharge high pressure limit (DI)
 - Supply air duct static pressure - 2/3 (AI)
4. Relief/Exhaust Fan Control
 - a. The relief/exhaust fan VFD speed shall be modulated to maintain the desired space pressure as dictated by a remote space pressure sensor. When the sensor measures low pressure, the relief/exhaust fan shall be ramped up to maintain space pressure setpoint (0.5" adjustable). As space pressure increases, the relief/exhaust fan shall ramp down to maintain space pressure setpoint. Interlock relief/exhaust fan operation with supply fan operation, so that the return/relief fan is off if supply fan is off. Provide a current transducer to prove fan operation.
 - Relief/Exhaust Fan motor start/stop (DO)
 - Relief/Exhaust Fan motor current (AI)
 - Relief/Exhaust Fan VFD Speed controller (% max. speed) (AO)
 - Space Pressure (AI)
5. Minimum Outside Air Control
 - a. Provide a two position outside air damper which will open to maintain a constant minimum outside airflow from the HRU as scheduled.
 - b. Provide an airflow measuring station to monitor minimum outside air
 - Outside air damper open/close (DO)
 - Airflow measuring station (AI)
6. Economizer Control
 - a. Provide dual enthalpy economizer control. Economizer control shall be enabled whenever the outside air enthalpy is lower than the return air enthalpy. Enthalpy shall be calculated from sensors which are tied to the same controller for accuracy. During economizer mode, the minimum outside air damper shall be open and the economizer damper shall be set at 100% (open). The economizer damper shall modulate open on a call for cooling and modulate closed on a call for heating. The return damper shall modulate inversely with the outside air damper.
 - b. Control and monitoring points shall include but not be limited to the following:
 - Outside air temperature (AI)
 - Outside air Humidity (AI)
 - Return air temperature (AI)
 - Return air Humidity (AI)
 - Return air damper position (% open) (AO)
 - Economizer damper position (% open) (AO)
7. Supply Air Temperature Setpoint
 - a. The supply air temperature setpoint shall be reset based on outside air temperature. Whenever the outside air temperature is above 55 degrees F (adj.), the supply air temperature setpoint shall be 55 degrees. Whenever the outside air temperature is 30 degrees or below, the supply air temperature setpoint shall be 80 degrees. Provide a supply air temperature high limit of 90 degrees and low limit of 40 degrees that will alarm the system and place the air handler in fail safe mode with manual reset.
 - Supply air temperature (AI)
 - Outside air temperature (AI)
8. Cooling Control
 - a. Cooling shall be controlled to maintain supply air temperature setpoint. On a call for cooling the economizer damper shall be modulated to closed position and the 3-way chilled water valve shall be modulated open.
 - Chilled water valve position (% open) (AO)
 - Supply air temperature (AI)
9. Mixed Air Low Limit Control
 - a. Provide a mixed air low limit whenever the mixed air temperature drops below 40 deg. F dry bulb, that will alarm the system and modulate the outside air damper below minimum to maintain mixed air setpoint equal to supply air setpoint.
 - Mixed air temperature (DI)
10. Smoke Detector
 - a. When the smoke detector is alarmed, the system shall be alarmed and the air handler shall fail safe with manual reset. Electrical contractor shall furnish, HVAC Contractor shall mount, Electrical contractor shall wire a UL listed photoelectric smoke detector per local code authority having jurisdiction.
 - Fan Shutdown - Hard Wired

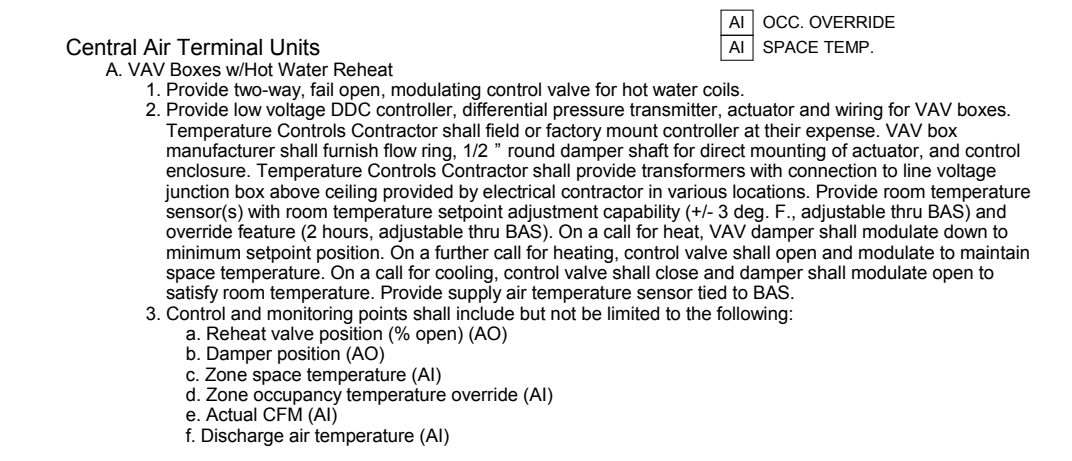
23T-042 - VAV AIR HANDLING UNIT - SA & RF FAN, CHW/HW
SCALE: NONE



SEQUENCE OF OPERATION

- Secondary Chilled Water Pumps (P-1A and P-1B)
 - a. The secondary pumps shall be enabled via the BAS and shall modulate to maintain pressure differential setpoint in the piping system.
 - b. The DDC controller shall alarm the system and automatically activate the stand-by pump when the lead pump fails after a 30 second time delay. Provide current sensors with a time delay function that, if flow is interrupted for more than thirty seconds, shall de-energize the lead pump and energize the stand-by pump. Provide lead/lag capability with BAS software to alternate the pump sequence.
 - c. Control and monitoring points shall include but not be limited to the following:
 - P-1A motor start/stop (DI)
 - P-1A motor current status (DI)
 - P-1A chilled water flow (DI)
 - P-1B motor start/stop (DI)
 - P-1B motor current status (DI)
 - P-1B chilled water flow (DI)
 - Secondary Hot Water Pumps (P-2A and P-2B)
 - a. The secondary pumps shall be enabled via the BAS and shall modulate to maintain pressure differential setpoint in the piping system.
 - b. The DDC controller shall alarm the system and automatically activate the stand-by pump when the lead pump fails after a 30 second time delay. Provide current sensors with a time delay function that, if flow is interrupted for more than thirty seconds, shall de-energize the lead pump and energize the stand-by pump. Provide lead/lag capability with BAS software to alternate the pump sequence.
 - c. Control and monitoring points shall include but not be limited to the following:
 - P-2A motor start/stop (DI)
 - P-2A motor current status (DI)
 - P-2A hot water flow (DI)
 - P-2B motor start/stop (DI)
 - P-2B motor current status (DI)
 - P-2B hot water flow (DI)
 - Dual Temperature Change Over
 - Temperature controls contractor shall provide an outside air temperature sensor.
 - When dual temperature loop in lower riser calls for chilled water, and chilled is available, the system shall commence chilled water changeover sequence. The change over sequence shall involve closing the hot water supply and return control valves, and once those valves have completely shut, opening the chilled water supply control valve and modulating the chilled water return valve to 10% flow until dual temperature return loop temperature is below 70 deg. F (adj.) Once that temperature is achieved, open return water valve to 100%.
 - When dual temperature loop in lower riser calls for hot water, the system shall commence hot water changeover sequence. The change over sequence shall involve closing the chilled water supply and return control valves, and once those valves have completely shut, opening the hot water supply control valve and modulating the hot water return valve to 10% flow until dual temperature return loop temperature is above 85 deg. F (adj.) Once that temperature is achieved, open return water valve to 100%.
- Control and monitoring points shall include but not be limited to the following:
 - Outside air temperature (DI)
 - Chilled Water Supply Valve position (DO)
 - Chilled Water Return Valve position (AO)
 - Hot Water Supply Valve position (DO)
 - Hot Water Return Valve position (AO)

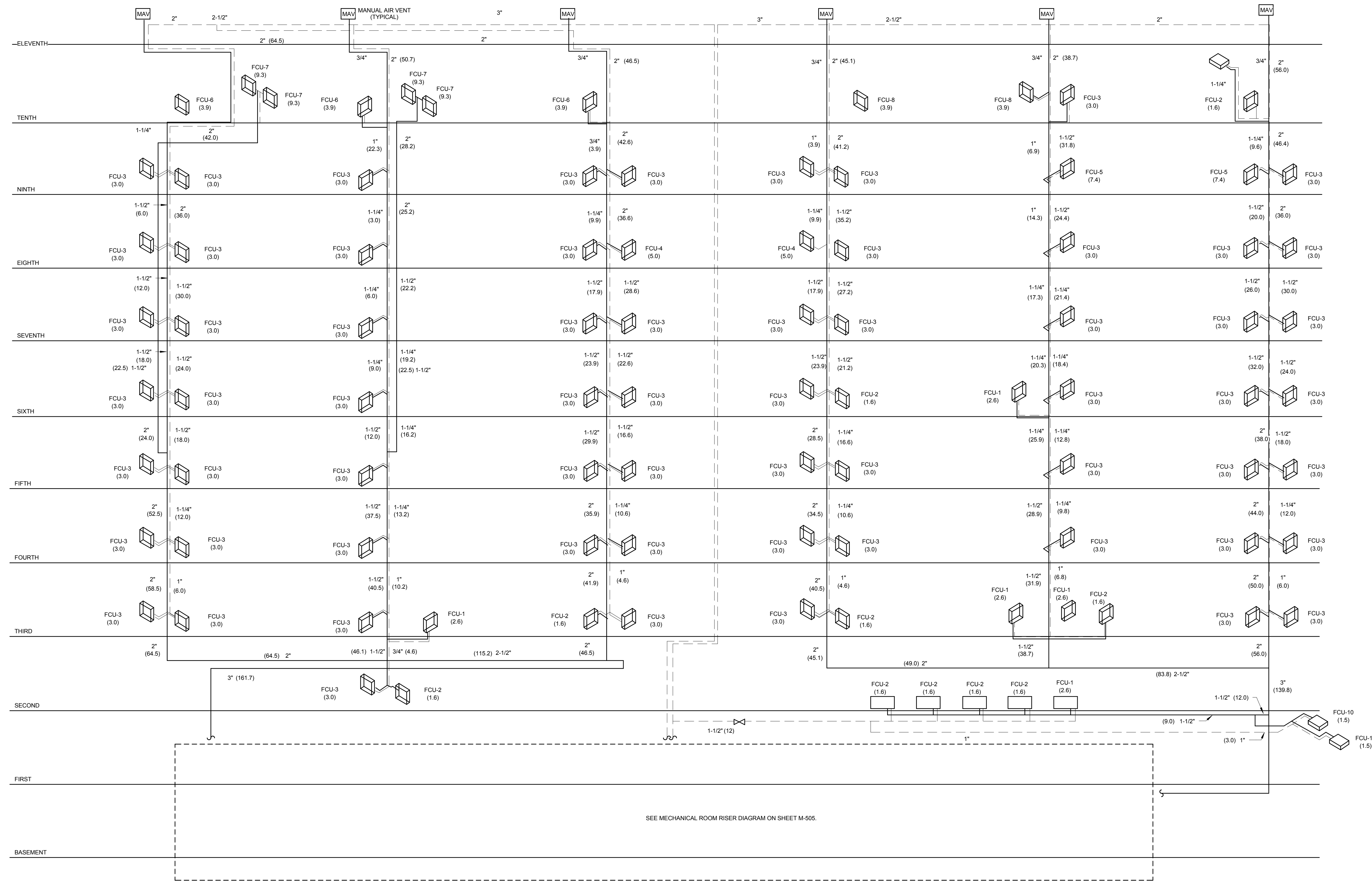
HYDRONIC RISER DIAGRAM
SCALE: NONE



23T-033 - SINGLE DUCT VAV BOX W/ HOT WATER REHEAT
SCALE: NONE

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1 PIPING RISER
M-506
1/8" = 1'-0"

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MAS

CHECKED BY:
KTW

MECHANICAL - DETAILS

DATE
July 14, 2017

M-506



COMcheck Software Version 4.0.6.0
Mechanical Compliance Certificate

Project Information

Energy Code: 2012 IECC
 Project Title: Xavier University - Schott Hall
 Location: Cincinnati, Ohio
 Climate Zone: 4a
 Project Type: Alteration

Construction Site: 1511 Herald Ave, Cincinnati, OH 45207
 Owner/Agent: _____
 Designer/Contractor: _____

Mechanical Systems List

Quantity System Type & Description

- 1 AHU-1 (Multiple-Zone):
 Cooling: 1 each - Hydronic Coil, Capacity = 486 kBtu/h, Air Economizer
 No minimum efficiency requirement applies
 Fan System: FAN SYSTEM 1 | AHU-1 -- Compliance (Brake HP method) : Passes

 Fans:
 FAN 1 Supply, Multi-Zone VAV, 15010 CFM, 20.0 motor nameplate hp, 14.8 design brake hp (14.8 max. BHP)
 FAN 2 Return, Multi-Zone VAV, 15010 CFM, 9.0 motor nameplate hp, 5.8 design brake hp (5.8 max. BHP)
 Pressure Drop Credits:
 Fully ducted return and/or exhaust air systems, 1.8168 credit

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.6.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

 Name - Title Signature Date

Project Title: Xavier University - Schott Hall Report date: 04/26/17
 Data filename: G:\18000-18999\18800-18899\18842\Project Data\Energy\Compliance\Mechanical Report\1884 Page 1 of 8
 Mech Comcheck.cck



COMcheck Software Version 4.0.6.0
Inspection Checklist

Energy Code: 2012 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Project Title: Xavier University - Schott Hall Report date: 04/26/17
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MECHANICAL - ENERGY COMPLIANCE

DATE
 July 14, 2017

M-701

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.2.4.5 [FO9] ³	Freeze protection and snow/ice melting system sensors for future connection to controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)

Project Title: Xavier University - Schott Hall Report date: 04/26/17
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 Mech Comcheck.cck

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.2.3 [ME55] ²	HVAC equipment efficiency verified.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
C403.2.5.1 [ME59] ¹	Demand control ventilation provided for spaces >500 sq.ft. and >25 people/1000 sq.ft. occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.4.2 [ME75] ²	VAV fan >= 7.5 hp are driven by mechanical or electrical variable speed drive, or driven by vane-axial with variable speed blades, or operate with motor demand <=30% design kW at 50% design flow - calculations required	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
C403.2.7 [ME60] ²	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.8 [ME61] ²	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.8.1 [ME7] ³	Piping Insulation exposed to weather is protected from damage (due to sun, moisture, wind, etc.).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.8 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.7 [ME10] ²	Ducts and plenums sealed based on static pressure and location.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.4.3.1 [ME50] ²	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.2.1 [ME53] ³	Air outlets and zone terminal devices have means for air balancing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.2.2 [ME54] ³	HVAC hydronic heating and cooling coils have means to balance and have pressure test connections.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.10.1 [ME65] ³	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.

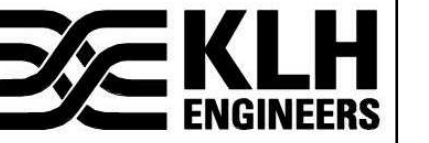
1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)

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DATE
July 14, 2017

M-702

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.2.10.2 [ME21] ²	HVAC fan motors not oversized beyond allowable limits.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.4.2 [ME66] ²	VAV fan motors ≥ 7.5 hp to be driven by variable speed drive, have a vane-axial fan with variable pitch blades, or have controls to limit fan motor demand.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.4.2.1 [ME67] ²	VAV fans have static pressure sensors positioned so setpoint $\leq 1/3$ total design pressure.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.4.2.2 [ME24] ²	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.4.3.5 [ME26] ³	Reduce flow in pumping systems > 10 hp to multiple chillers or boilers when others are shut down.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.6 [ME57] ¹	Exhaust air energy recovery on systems meeting Table C403.2.6	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.4.6 [ME31] ³	Condenser heat recovery system that can heat water to 85 °F or provide 60% of peak heat rejection is installed for preheating of service hot water.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.11 [ME71] ²	Unenclosed spaces that are heated use only radiant heat.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.4.1 [F147] ³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.2 [F138] ³	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.2 [F120] ³	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.3 [F139] ³	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.3 [F140] ³	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.3.3 [F141] ³	Systems include optimum start controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.1 [F17] ³	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C303.3, C408.2.5.3 [F18] ³	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.3 [F143] ¹	An air and/or hydronic system balancing report is provided for HVAC systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.3.2 [F110] ¹	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.2 [F127] ³	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.1 [F128] ¹	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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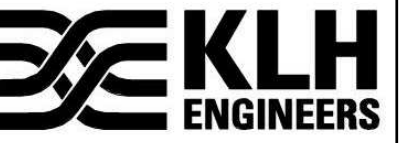
Project Title: Xavier University - Schott Hall Report date: 04/26/17
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M-703

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.4 [F129] ¹	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.4 [F130] ¹	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.3.1 [F131] ¹	HVAC equipment has been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Xavier University - Schott Hall Report date: 04/26/17
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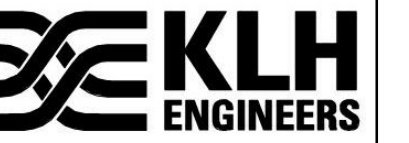
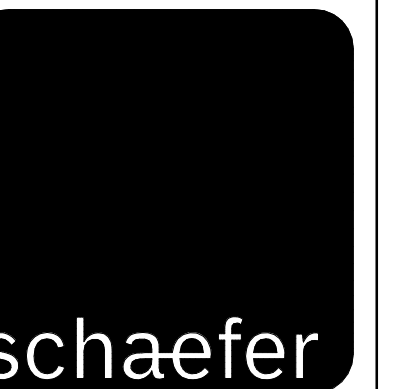
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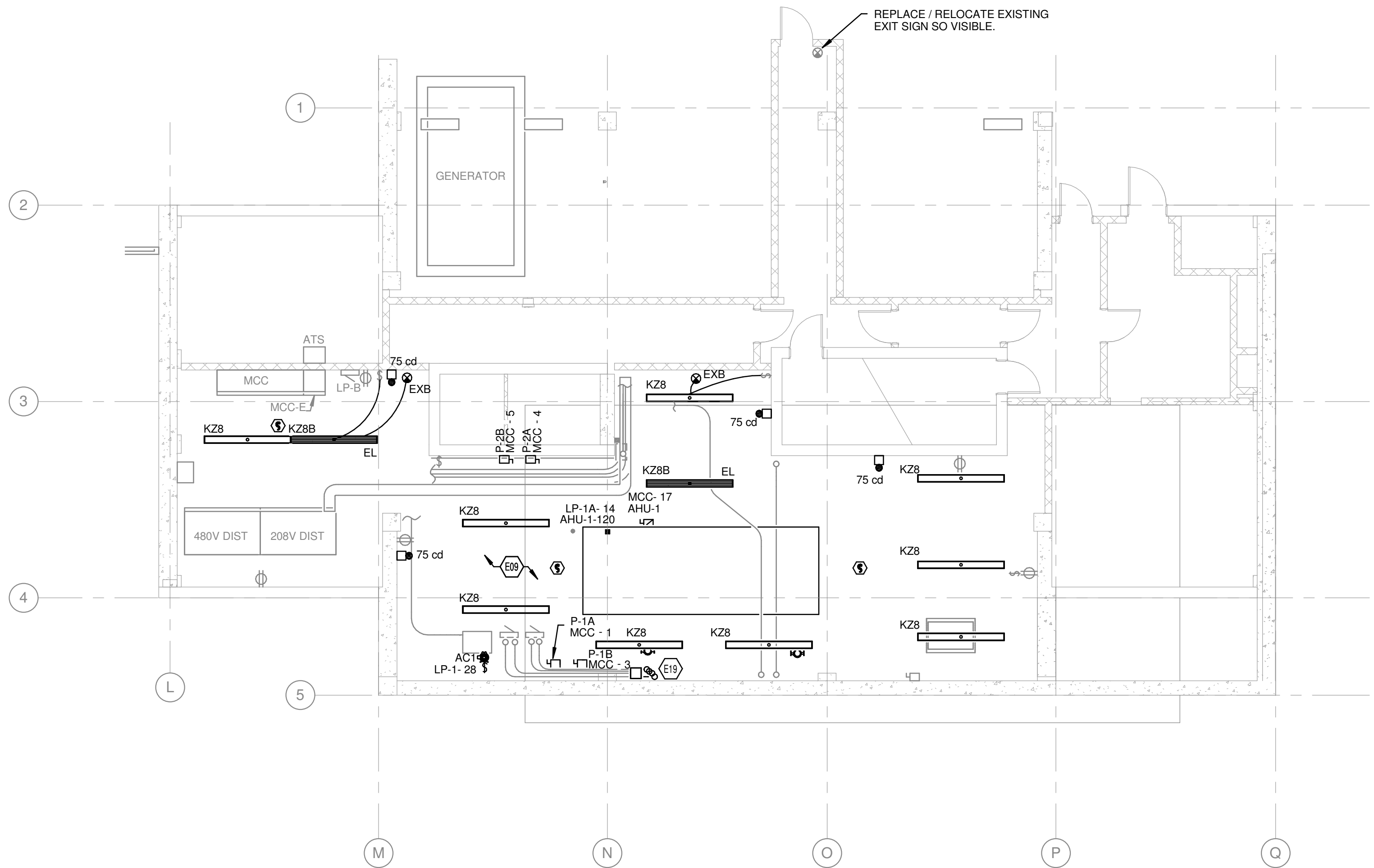
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**ELECTRIC -
DEMO &
NEW -
BASEMENT**

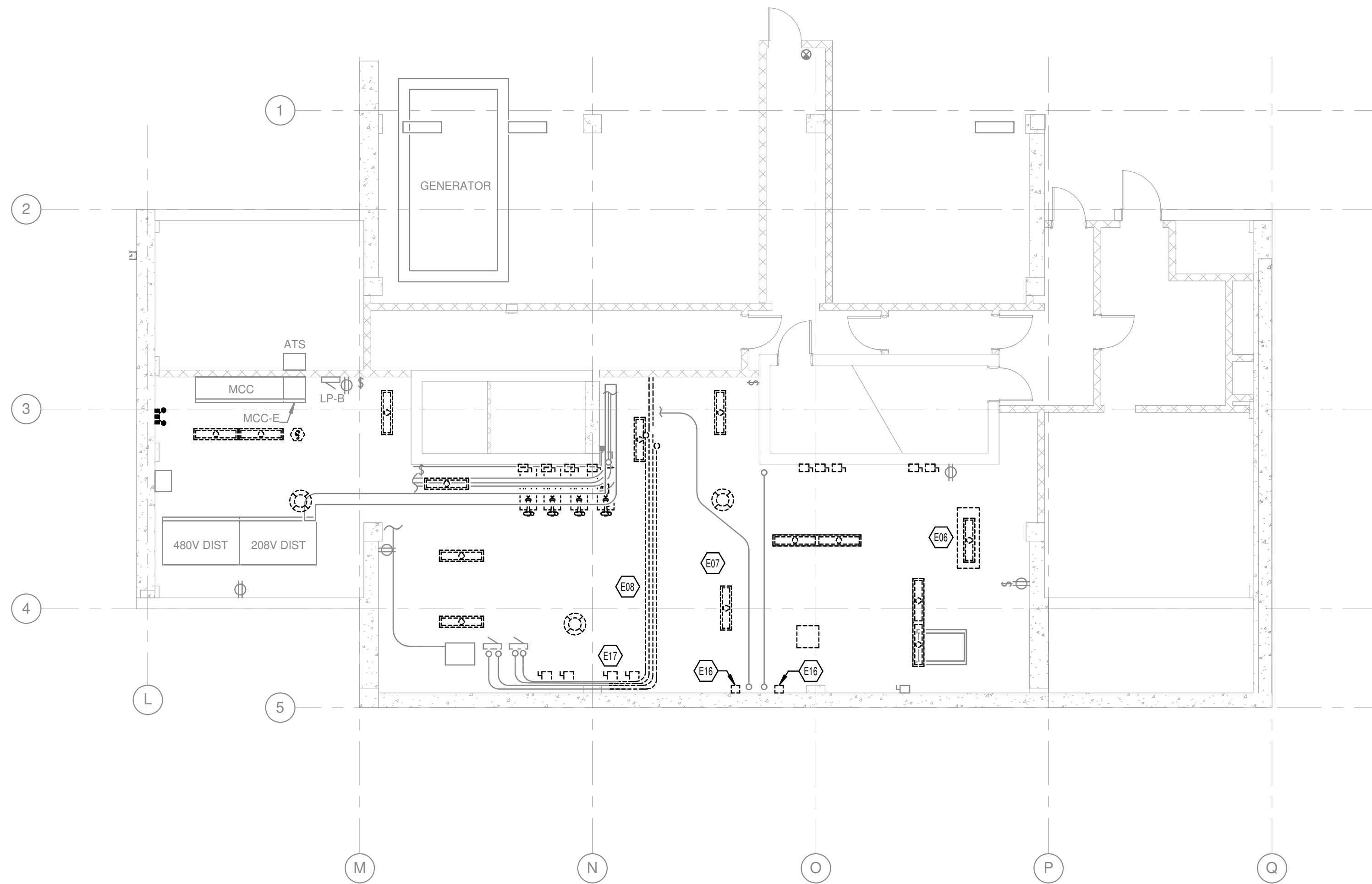
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E-100

- GENERAL NOTES**
- A. SWAP OUT DEMOLISHED LUMINAIRES WITH NEW ENERGY EFFICIENT REPLACEMENTS AS SPECIFIED ON THE DRAWINGS. NEW TOTAL LUMINAIRE CIRCUIT LOADS MUST BE LESS THAN OR EQUAL TO THE EXISTING LUMINAIRE CIRCUIT LOADS. VERIFY CIRCUIT LOAD AND VOLTAGE IN FIELD PRIOR TO INSTALLATION. EXTEND / MODIFY EXISTING LIGHTING CIRCUITING WITHIN EACH ROOM / AREA TO ACCOMMODATE NEW LUMINAIRE LOCATIONS, ADDED LUMINAIRES, AND NEW CONTROLS AS SHOWN (NOT ALL NEW WIRING IS SHOWN ON THESE PLANS).
 - B. PROTECT ALL EXISTING FEEDERS TO REMAIN DURING ALL PHASES OF CONSTRUCTION.
 - C. PROVIDE 500' OF 3/4" CONDUIT DEMOLITION IN THE AREA OF THE NEW AHU.
- KEYED NOTES**
- E06 REMOVE AIR COMPRESSOR AND TURN OVER TO OWNER.
 - E07 ALL CONDUITS CURRENTLY ROUTED THROUGH PROPOSED POSITION OF NEW AIR HANDLER SHALL BE RE-ROUTED, INCLUDING THOSE FOR BRANCH CIRCUITS, FEEDERS, AND CONTROLS. VERIFY IN FIELD PRIOR TO BIDDING.
 - E08 CONDUITS FEEDING VERIZON EQUIPMENT SHALL BE REROUTED BY VERIZON. COORDINATE WITH VERIZON.
 - E09 COORDINATE FINAL LOCATIONS OF NEW LUMINAIRES IN THIS ROOM WITH NEW/EXISTING MECHANICAL EQUIPMENT. REGARDLESS OF FINAL POSITIONING, PROVIDE NUMBER OF LUMINAIRES SHOWN ON PLAN. UTILIZE EXISTING LIGHTING CIRCUIT IN THE SPACE. EXTEND/MODIFY CIRCUITING AS NECESSARY.
 - E16 TURN OVER REMOVED VFD CONTROLLER IN THIS LOCATION TO OWNER. PUMP 6 MUST STAY TEMPORARILY ACTIVE. COORDINATE WITH THE GENERAL CONTRACTOR TO PROTECT POWER AND CONTROLS TO THIS EQUIPMENT.
 - E19 PROPOSED PATH FOR REROUTING OF VERIZON CONDUITS. REROUTING OF CONDUITS SHALL BE THE RESPONSIBILITY OF VERIZON. INTERCEPT EXISTING FEEDER WITH NEW JUNCTION BOXES. SPLICE INTO EXISTING FEEDER WITH NEW CONDUCTORS TO MATCH EXISTING. WORK SHOWN FOR REFERENCE ONLY.

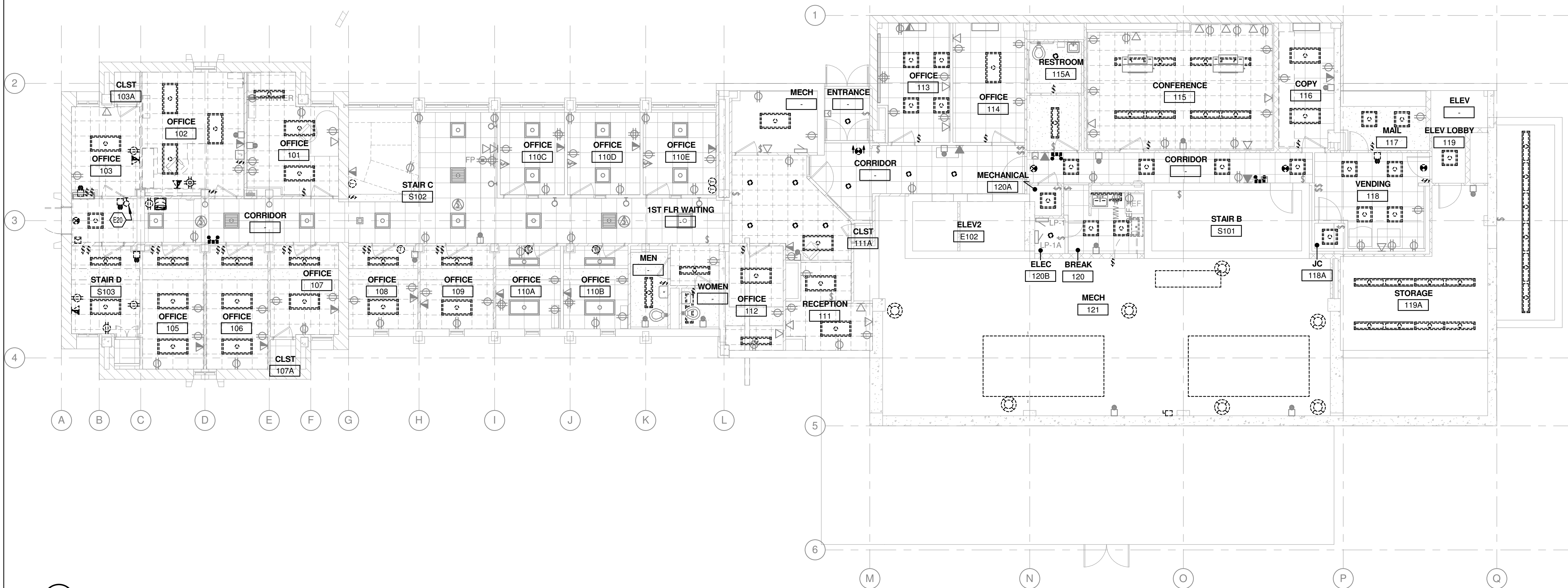


2 ELECTRIC NEW WORK - BASEMENT LEVEL
1/8" = 1'-0"

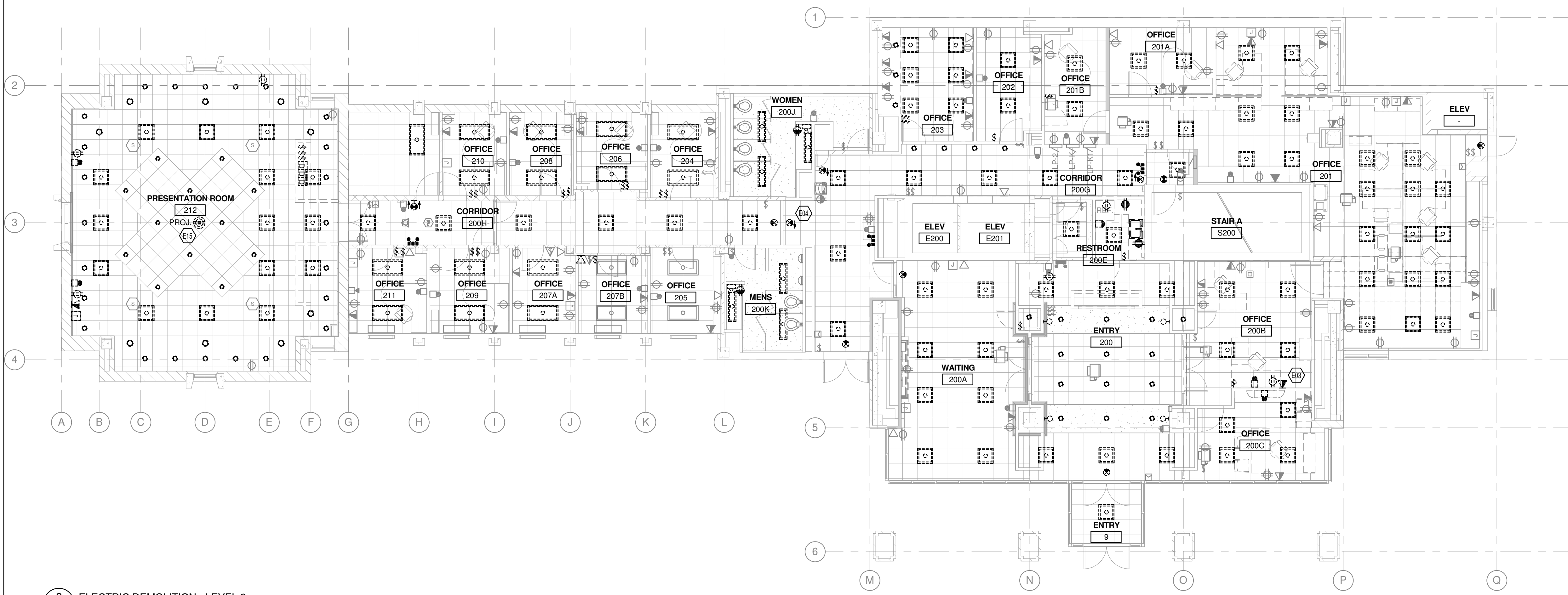


1 ELECTRIC DEMOLITION - BASEMENT LEVEL
1/8" = 1'-0"

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1 ELECTRIC DEMOLITION - LEVEL 1
E-101 1/8" = 1'-0"



2 ELECTRIC DEMOLITION - LEVEL 2
E-101 1/8" = 1'-0"

- GENERAL NOTES**
- A. ALL EXISTING LUMINAIRES SHOWN TO BE REMOVED (BOLD AND DASHED) SHALL BE REMOVED. DISCONNECT POWER TO LUMINAIRE AND KEEP EXISTING CIRCUITING / JUNCTION BOXES FOR RE-USE. PROPERLY DISPOSE OF/RECYCLE FLUORESCENT FIXTURES AND LAMPS.
 - B. REPLACE CONVENIENCE RECEPTACLE COVER PLATES IN UPSTAIRS MEN'S AND WOMEN'S RESTROOMS WITH STAINLESS STEEL COVER PLATES.
- KEYED NOTES**
- E03 LOCATION OF TELEPHONE, FIBER, DATA, COAX, TERMINATIONS, AND RACKS FOR THIS FLOOR / WING. ALL UNUSED NON-PLENUM RATED TELEPHONE WIRING (GREY) AND UNUSED TERMINAL BLOCKS SHALL BE DEMOLISHED. ALL DATA, FIBER, COAX, AND USED PLENUM RATED TELEPHONE WIRING SHALL REMAIN. PROVIDE BLANK COVER PLATES OVER ALL ABANDONED TELEPHONE BOXES.
 - E04 DEMOLISH EXISTING EXIT DOOR SECURITY SYSTEM AND TEMPORARY DOOR HORNS. PROVIDE NEW DOOR HORNS AND SECURITY SYSTEM PER XAVIER STANDARDS AND TIE BACK TO THE XAVIER SECURITY NETWORK FOR MONITORING.
 - E15 REMOVE EXISTING PROJECTOR AND RETURN TO OWNER (XAVIER I.T. DEPT). REMOVE EXISTING PROJECTION SCREEN AND TRANSPORT TO BUILDING VALUE FOR RECYCLING.
 - E20 RELOCATE LUMINAIRE TO NEW LOCATION SHOWN ON SHEET E-103.

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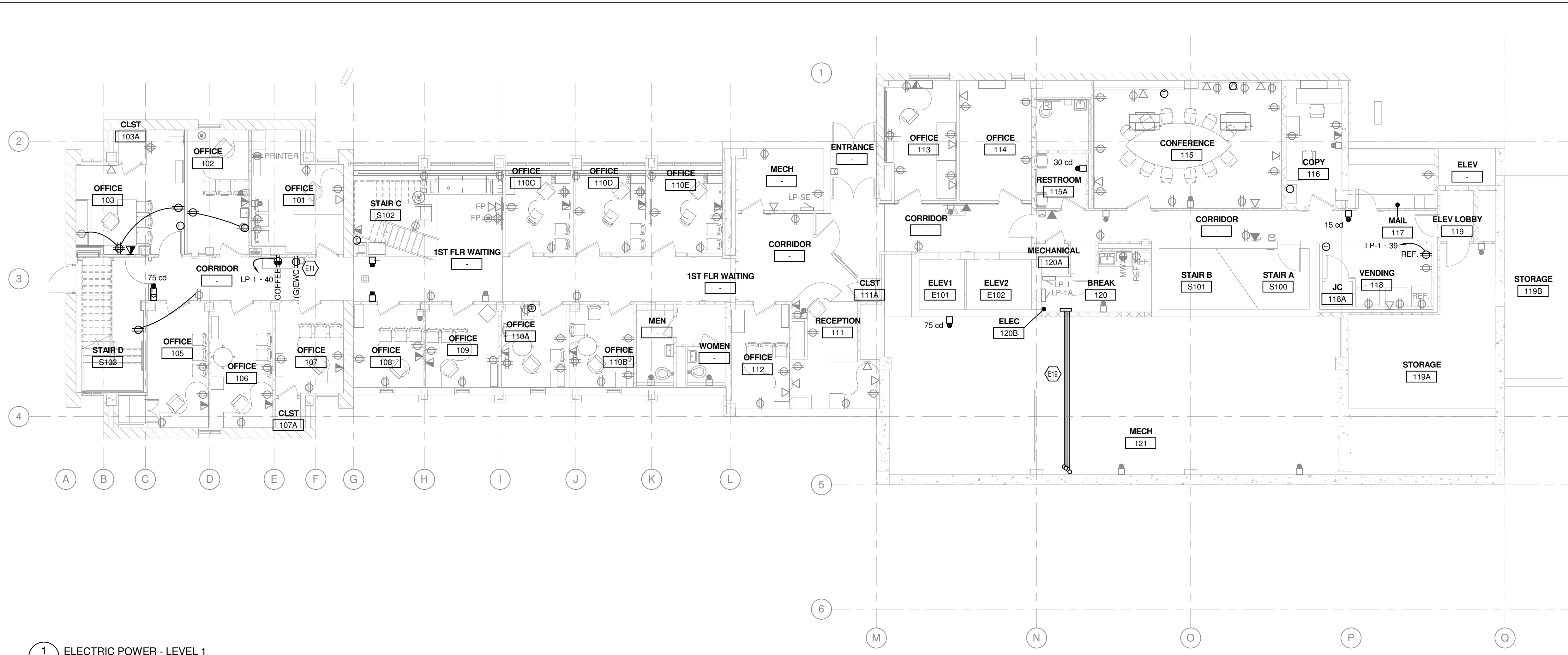


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**ELECTRIC -
DEMO - 1ST
& 2ND FLR**

DATE
July 14, 2017

E-101



KEYED NOTES

E02 CONNECT RECEPTACLE TO EXISTING RECEPTACLE CIRCUIT MADE AVAILABLE UPON DEMOLITION. CONNECT HAND DRYER TO EXISTING HAND DRYER CIRCUIT MADE AVAILABLE UPON DEMOLITION. HAND DRYERS SHALL BE AMERICAN SPECIALTY MODEL NUMBER 0197. INTENDED TO MATCH ALTER HALL. EXTEND/MODIFY CIRCUITING AS NECESSARY.

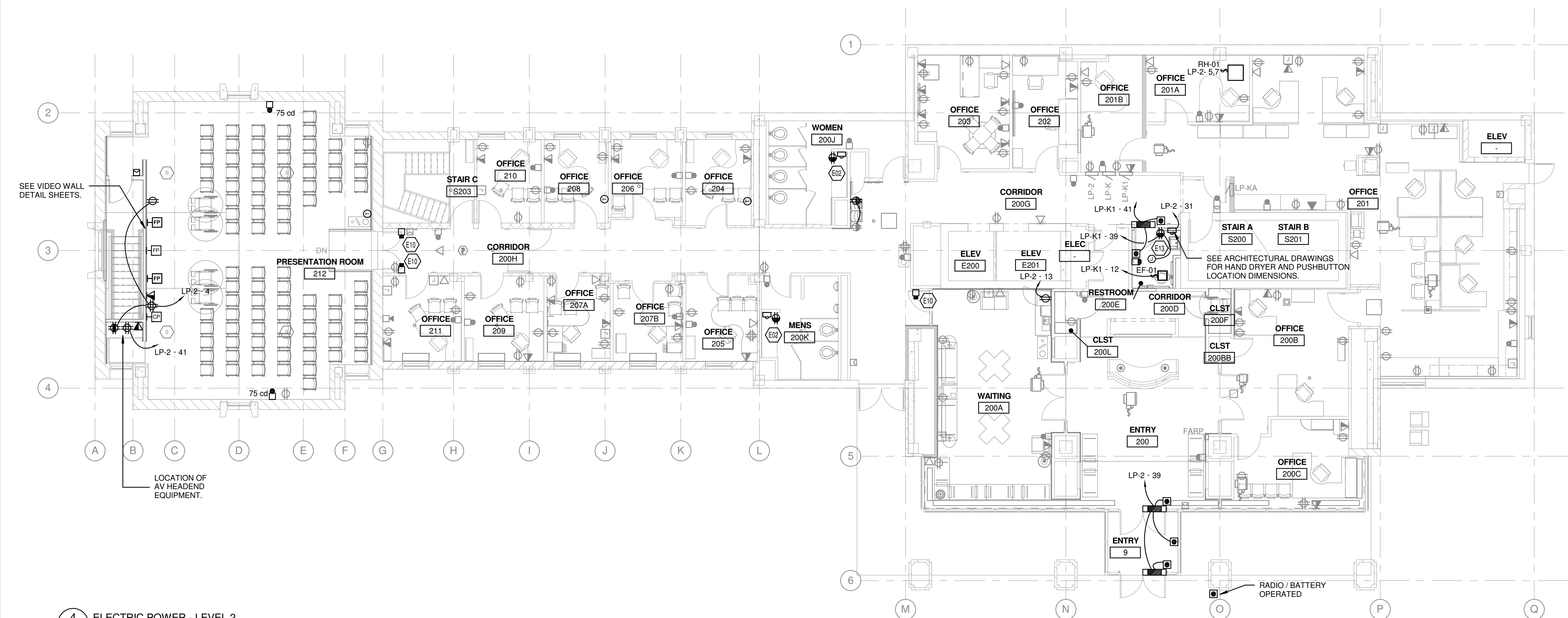
E10 PROVIDE MAGNETIC DOOR HOLDER WITH MAGNET ONLY. DO NOT TIE INTO BUILDING FIRE ALARM SYSTEM.

E11 REWORK EXISTING CIRCUIT TO FEED TO ELECTRIC WATER COOLER LOCATION.

E13 PROVIDE 120V POWER TO ELECTRONIC VALVE TRANSFORMERS AND LOW VOLTAGE CABLING FROM THE TRANSFORMER TO EACH VALVE. INSTALL LOW VOLTAGE TRANSFORMERS ABOVE ACCESSIBLE CEILING. PROVIDE LOCAL DISCONNECT (TOGGLE SWITCH) AHEAD OF TRANSFORMER. REFER TO TYPICAL SCHEMATIC HARD-WIRED ELECTRONIC FLUSH VALVE DETAIL FOR ADDITIONAL INFORMATION.

E19 PROPOSED PATH FOR REROUTING OF VERIZON CONDUITS. REROUTING OF CONDUITS SHALL BE THE RESPONSIBILITY OF VERIZON. INTERCEPT EXISTING FEEDER WITH NEW JUNCTION BOXES. SPLICE INTO EXISTING FEEDER WITH NEW CONDUCTORS TO MATCH EXISTING. WORK SHOWN FOR REFERENCE ONLY.

1 ELECTRIC POWER - LEVEL 1
E-102 1/8" = 1'-0"



4 ELECTRIC POWER - LEVEL 2
E-102 1/8" = 1'-0"

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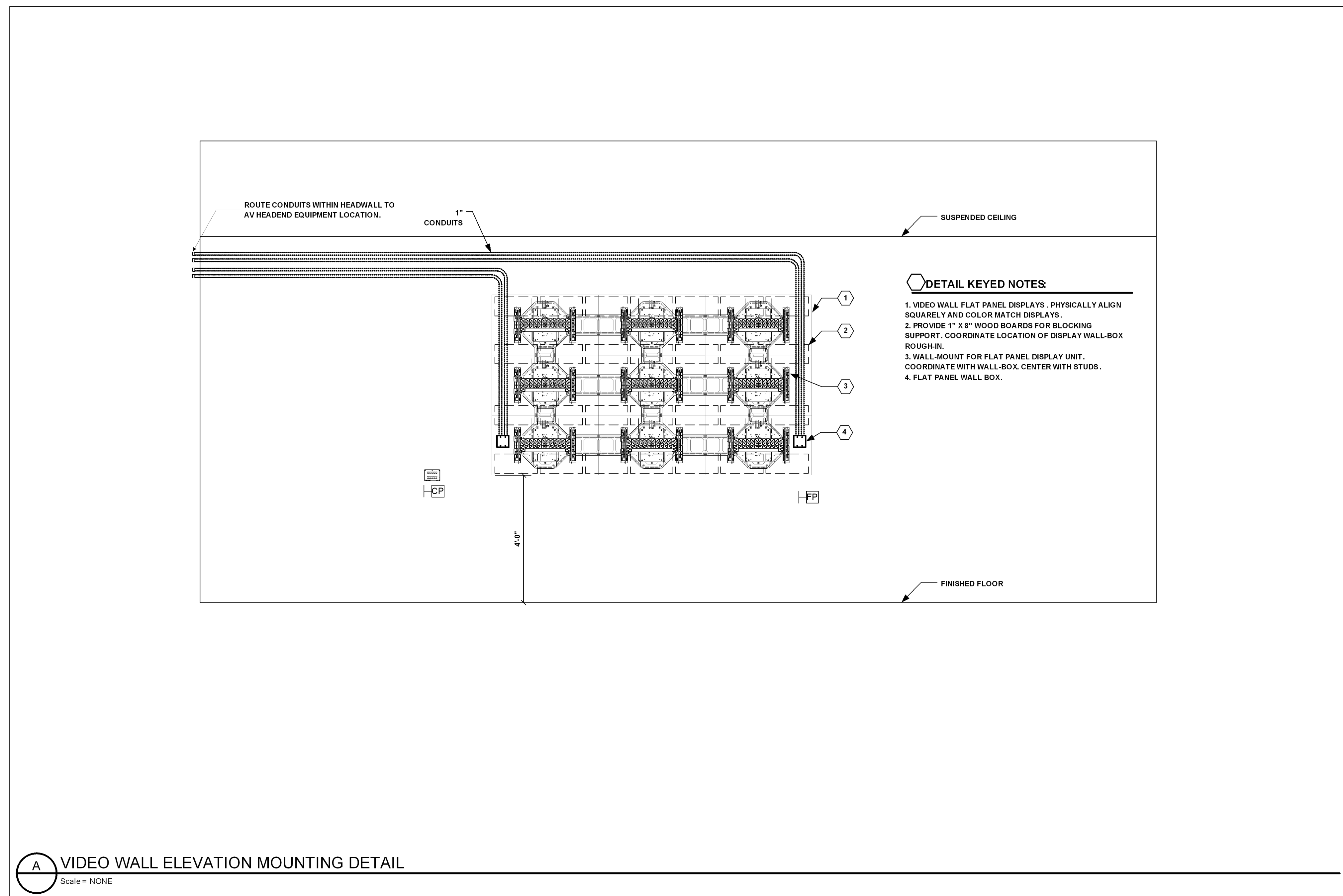
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ELECTRIC -
POWER -
NEW - 1ST &
2ND FLR

DATE
July 14, 2017

E-102

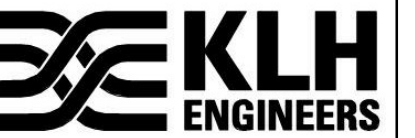
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A VIDEO WALL ELEVATION MOUNTING DETAIL
Scale = NONE



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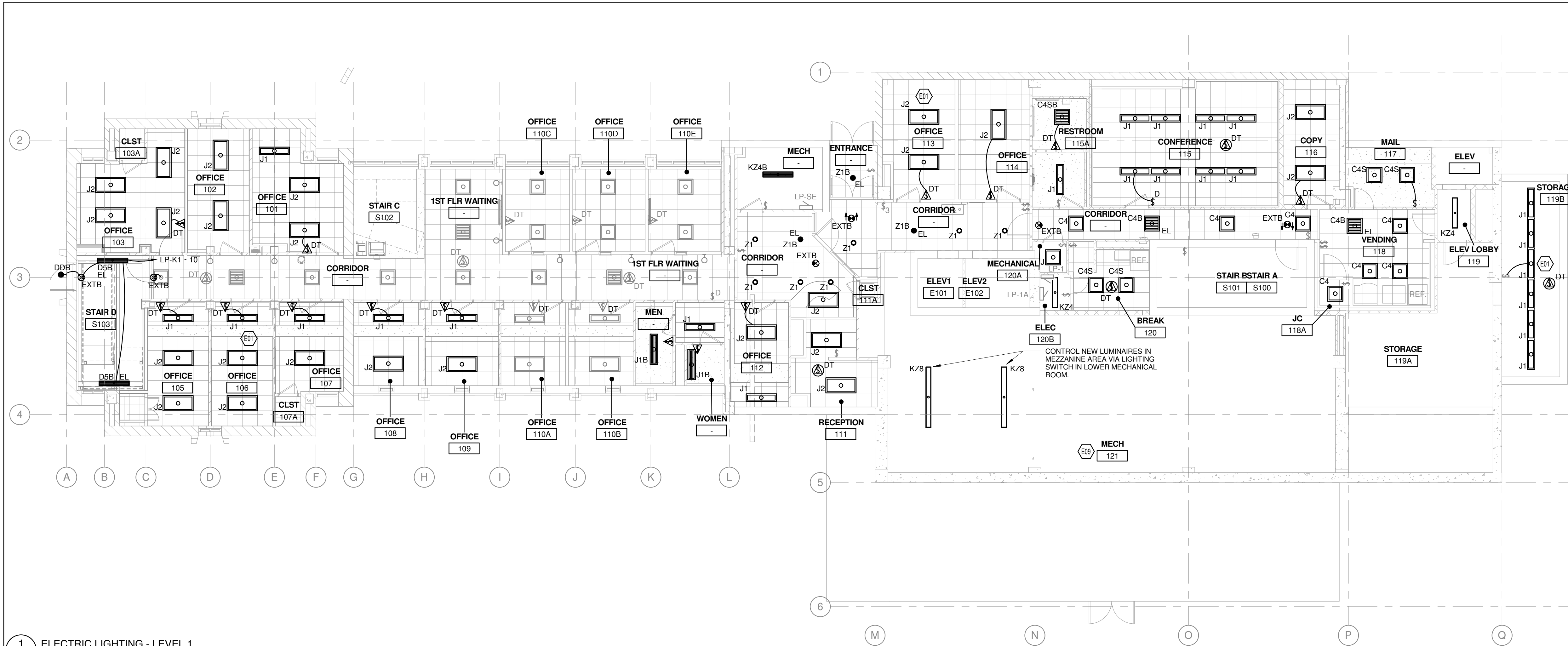


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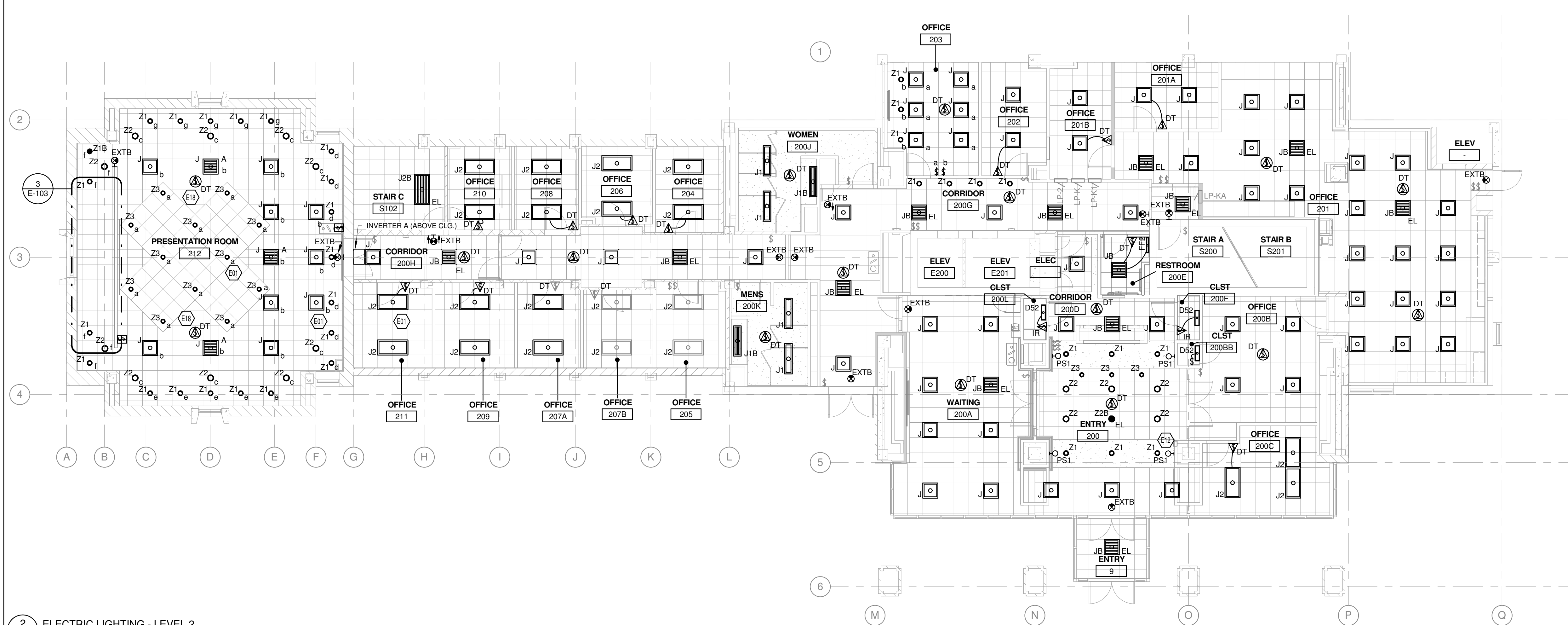
**ELECTRIC -
VIDEO WALL
DETAILS**

DATE
July 14, 2017

E-642



1 ELECTRIC LIGHTING - LEVEL 1
E-103 1/8" = 1'-0"



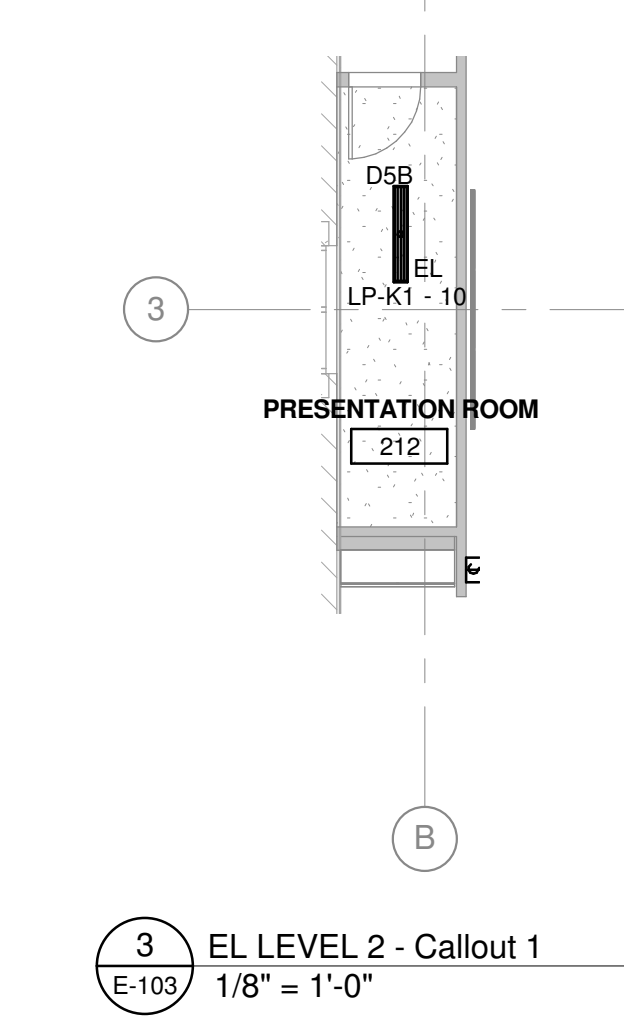
2 ELECTRIC LIGHTING - LEVEL 2
E-103 1/8" = 1'-0"

GENERAL NOTES

- ALL EGRESS LIGHTS AND BATTERIES SHALL BE WIRED AHEAD OF SWITCHING.
- SWAP OUT DEMOLISHED LUMINAIRES WITH NEW ENERGY EFFICIENT EQUIVALENTS AS SPECIFIED ON THE DRAWINGS AND BELOW. NEW TOTAL LUMINAIRE CIRCUIT LOADS MUST BE LESS THAN OR EQUAL TO THE EXISTING LUMINAIRE CIRCUIT LOADS. VERIFY CIRCUIT LOAD AND VOLTAGE IN FIELD PRIOR TO INSTALLATION. EXTEND / MODIFY EXISTING LIGHTING CIRCUITING WITHIN EACH ROOM / AREA TO ACCOMMODATE NEW LUMINAIRE LOCATIONS, ADDED LUMINAIRES, AND NEW CONTROLS AS SHOWN (NOT ALL NEW WIRING IS SHOWN ON THESE PLANS).
- OCCUPANCY SENSORS IN CORRIDORS SHALL FUNCTION IN OCCUPANCY MODE (AUTO ON). OCCUPANCY SENSORS IN LOUNGES, OFFICES, RESTROOMS, AND OTHER SIMILAR SPACES WITH MANUAL SWITCHES SHALL OPERATE IN VACANCY MODE (MANUAL ON - AUTO OFF). OCCUPANCY SENSORS SHALL BE PROVIDED TO OBTAIN 100% COVERAGE IN EACH SPACE (ENGINEER SHALL APPROVE FINAL LAYOUT DURING SUBMITTALS).

KEYED NOTES

- E01 CONNECT NEW LUMINAIRES TO EXISTING CIRCUIT MADE AVAILABLE UPON DEMOLITION. EXTEND/MODIFY CIRCUITING AS NECESSARY.
- E09 COORDINATE FINAL LOCATIONS OF NEW LUMINAIRES IN THIS ROOM WITH NEW/EXISTING MECHANICAL EQUIPMENT. REGARDLESS OF FINAL POSITIONING, PROVIDE NUMBER OF LUMINAIRES SHOWN ON PLAN. UTILIZE EXISTING LIGHTING CIRCUIT IN THE SPACE. EXTEND/MODIFY CIRCUITING AS NECESSARY.
- E12 (1) TYPE PS1 LUMINAIRE RELOCATED FROM LOCATION SHOWN ON SHEET E-101.
- E18 PROVIDE ADDITIONAL AUXILIARY RELAY PACKS FOR OCCUPANCY SENSOR CONTROL TO BE TIED INTO HVAC CONTROLS IN THIS ROOM.



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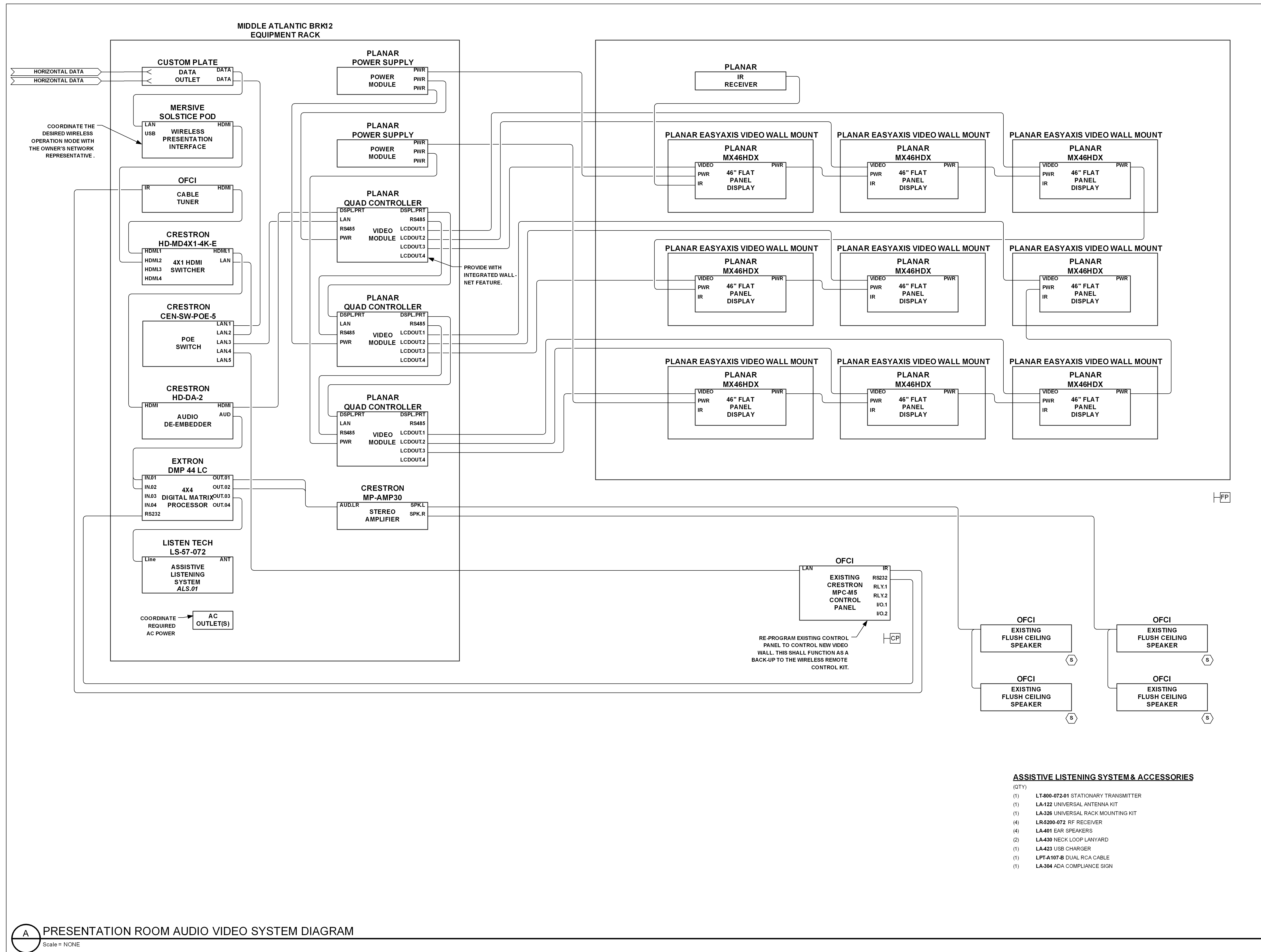
**ELECTRIC -
LIGHTING -
NEW - 1ST &
2ND FLR**

DATE
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E-103

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A PRESENTATION ROOM AUDIO VIDEO SYSTEM DIAGRAM
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E-641