

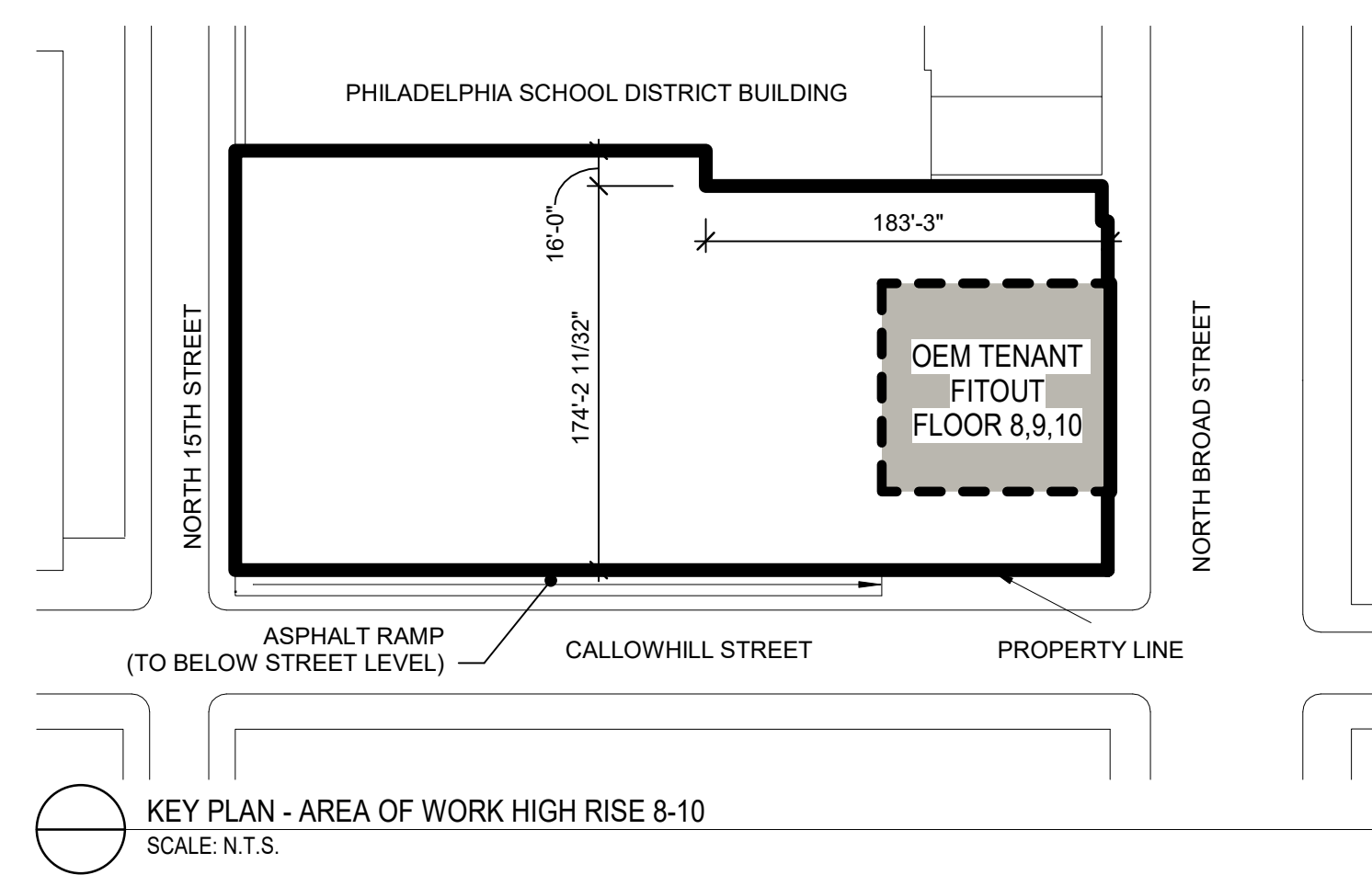
### SYMBOLS LEGEND

NOTE: ALL SYMBOLS NOT NECESSARILY SHOWN ON PLAN.

SYMBOL	DESCRIPTION
[FE] (x)	FIRE EXTINGUISHER CABINET, SEMI RECESSED
[CR] (x)	(x) INDICATES EXISTING TO REMAIN
[---]	EXISTING WALL
[---]	NEW WALL
[---]	EXISTING DOOR
[---]	NEW DOOR
[---]	1 HOUR FIRE RATED WALL
[---]	CMU WALL
[1001]	DOOR IDENTIFICATION
[#]	KEY NOTE
[#]	EQUIPMENT IDENTIFICATION/FIXTURE TAG
[Name]	ROOM IDENTIFICATION
[Name]	PARTITION IDENTIFICATION. SEE A-701 FOR PARTITION TYPES.
[ELEV 0'-0"]	ELEVATION MARKERS INDICATE LEVEL ABOVE FLOOR SLAB.
[---]	BASE BUILDING CONSTRUCTION (N.I.C.) SEE GENERAL NOTE 1.
[---]	ADA CLEARANCES (W/ DIRECTION OF APPROACH ARROW PER APPLICABLE ACCESSIBILITY CODES)
[---]	WALL MOUNTED MONITOR ABOVE. PROVIDE FULL DATA CONFERRING CAPABILITIES AT ALL LOCATION. I.J.A.O. SEE MONITOR SCHEDULE ON A-700.
[---]	24" x 24" LOW-PROFILE RAISED ACCESS PANEL FLOOR. SEE SPECS.

- ### GENERAL NOTES
- ROOMS NOTED ON PLANS AS "NOT IN SCOPE" ARE EXISTING. PART OF THE BASE BUILDING CONSTRUCTION. HOWEVER, WORK UNDER THIS CONTRACT IS INCLUDED IN SOME OF THESE ROOMS, AS INDICATED ON PP. M, E & SS SERIES DRAWINGS. CUT & PATCH AS REQUIRED TO ACCOMMODATE THE WORK OF THIS CONTRACT. REPAIR AND DAMAGE TO MATCH EXISTING CONDITIONS.
  - CLEAN, PATCH, PREPARE AND REPAIR ALL FLOOR & WALLS SUBSTRATES TO A CONTINUOUS LEVEL SURFACE AND TO ACCOMMODATE NEW WORK.
  - ALL DIMENSIONS ARE TO THE FACE OF G.W.B. UNLESS NOTED OTHERWISE.
  - PATCH WALLS WHERE EXISTING ELECTRICAL OR MECHANICAL DEVICES SHALL BE REMOVED OR REPLACED WITH A DIFFERENT CONFIGURATION.
  - PATCH, REPAIR AND REFINISH EXISTING G.W.B. SURFACES WHERE DEMOLITION CAUSED OPEN OR OTHERWISE DAMAGED CONDITIONS. WHERE DAMAGED DURING CONSTRUCTION OR WHERE EXISTING LOCATIONS ARE DAMAGED.
  - WHERE NEW PARTITIONS ARE IN LINE WITH EXISTING PARTITIONS, NEW PARTITION SHALL MATCH EXISTING PARTITION. BOTH SIDES OF NEW PARTITION SHALL BE ALIGNED WITH EXISTING UNLESS NOTED OTHERWISE.
  - ALL PARTITIONS SHALL BE TYPE "A1" UNLESS NOTED OTHERWISE. REFER TO PARTITION SCHEDULE ON A-700 FOR TYPES.
  - ALL EXISTING FLOOR SLAB EXPANSION JOINTS SHALL BE MADE SMOOTH BY THE CONTRACTOR IN ORDER TO RECEIVE FLOOR FINISH.
  - THE CONTRACT DOCUMENTS DO NOT SHOW ALL WORK IN THE "SCOPE OF WORK" AREA.
  - DOOR OPENING NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALLS AS SHOWN OR LOCATED 4" FROM FINISH WALL TO FINISH JAMB UNLESS OTHERWISE NOTED. REFER TO DOOR SCHEDULE, DETAILS, AND SPECIFICATIONS FOR DOOR, DOOR FRAME, AND DOOR HARDWARE REQUIREMENTS.
  - PROVIDE BALLISTIC GLAZING FILM AT ALL EXTERIOR WINDOWS AT FLOORS 8, 9 & 10. PROVIDE GSA RATING "3B" ASTM F1642 "LOW HAZARD" WINDOW FILM. BASIS OF DESIGN: CLEAR 3M 8800 FILM.

- ### KEYNOTES - NEW CONSTRUCTION
- OFFSET CABLE ROUTE TO 7TH FLOOR AT SLAB ABOVE
  - FINISH CABLE / CONDUIT AND EXPOSED STRUCTURAL STEEL TO MATCH EXISTING STRUCTURE. PROVIDE 2 HR FIRE RATED FIRE STOP AT SLAB OPENING.
  - FACETED STOREFRONT IN CURVED WALL.
  - PROVIDE 2 HR FIRE RATED FIRESTOP AT ELEC CABLES PENETRATING SLAB
  - MILLWORK - SEE ELEVATION
  - ACOUSTIC GLAZING SYSTEM - SEE PLAN FOR STC RATINGS
  - RAISED FLOOR SYSTEM. PROVIDE ACCESS TO CABLES AT 4" RAISED FLOOR - SEE ELEC DRAWINGS FOR GROUNDING
  - 1:12 SLOPE RAMP BY RAISED FLOOR MANUFACTURER
  - FIREARM LOCKERS
  - FURR OUT COLUMN - SEE RCP
  - REFRIGERANT LINE SETS - SEE MPE + STRUCTURAL DRAWINGS
  - ELECTRICAL / SPECIAL SYSTEMS EQUIPMENT - SEE ELEC. DRAWINGS



**IEI GROUP, LTD.**  
**IEI ARCHITECTS, INC.**  
 428 North 2nd Street  
 Philadelphia, PA 19123  
 Telephone: 215 413 3700

CONSULTANTS:  
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 61 Wilmington-West Chester Pike  
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PROJECT TITLE:  
**THE CITY OF PHILADELPHIA**  
**OFFICE OF EMERGENCY MANAGEMENT**  
**PHILADELPHIA PUBLIC SERVICES BUILDING**  
**400 NORTH BROAD STREET, PHILADELPHIA, PA 19130**  
**FLOORS 8, 9 AND 10**

**ISSUED FOR BIDS**  
**09/18/2020**  
 (NOT FOR CONSTRUCTION)

ISSUES/REVISIONS:  
 1 9/18/2020 ISSUED FOR BIDS  
 2 10/15/2020 ADDENDUM NO. 1  
 3 11/02/2020 ADDENDUM NO. 3

PROJECT NUMBER: 304103-120  
 SCALE: As indicated  
 DATE: 10/06/2020  
 DRAWN BY: SM  
 CHECKED BY: PT

DRAWING TITLE:  
**8TH FLOOR PLAN**

SHEET NO:  
**A-108**

BIM 360://PPSB - Office of Emergency Management/304103-120\_PPSB-DEM - ARCH-DOCUMENTATION - 08-10 - 8th-Floor-Floors-INT

1 8TH FLOOR PLAN  
 A-108 SCALE: 1/4" = 1'-0"





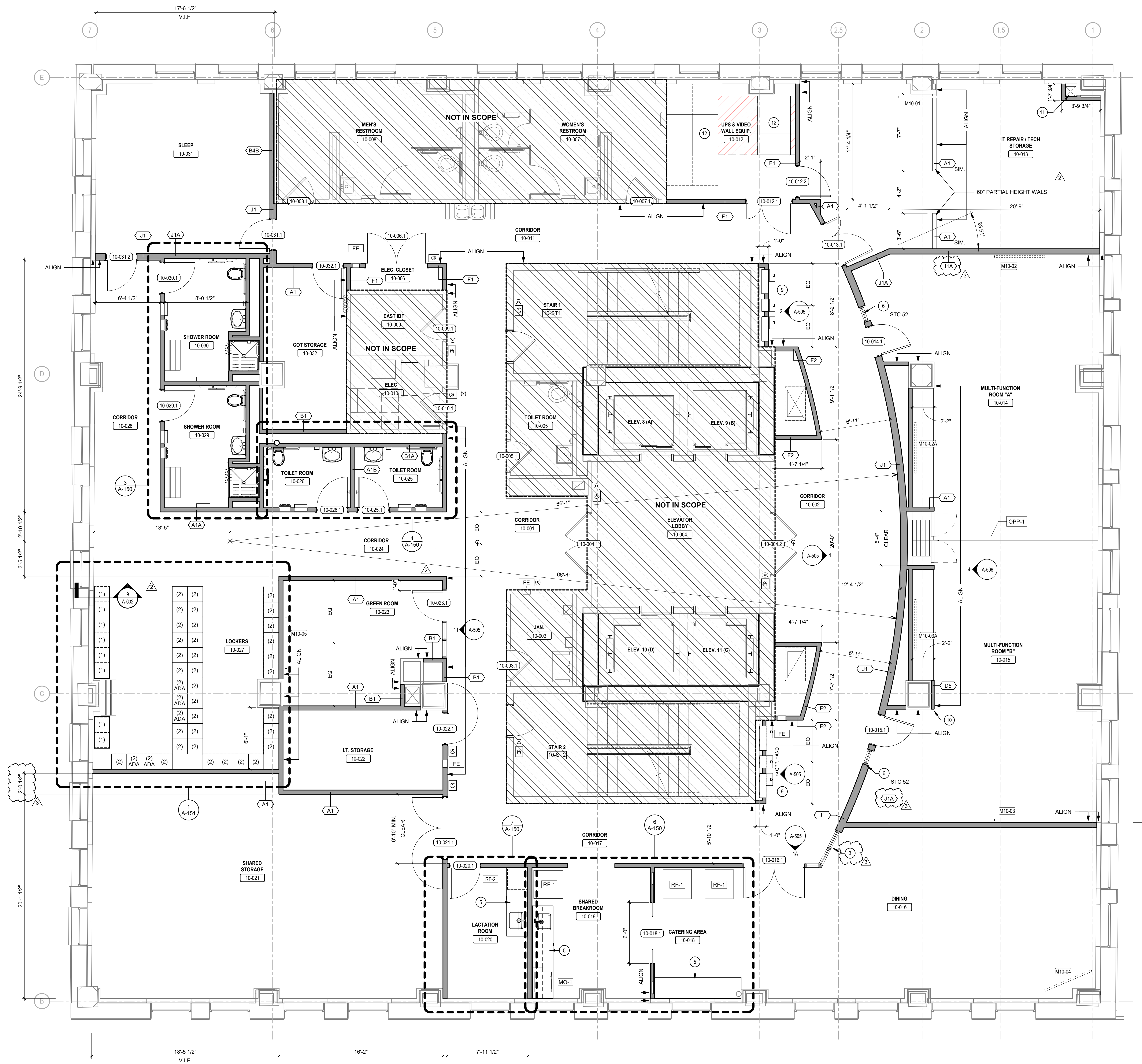


**GENERAL NOTES**

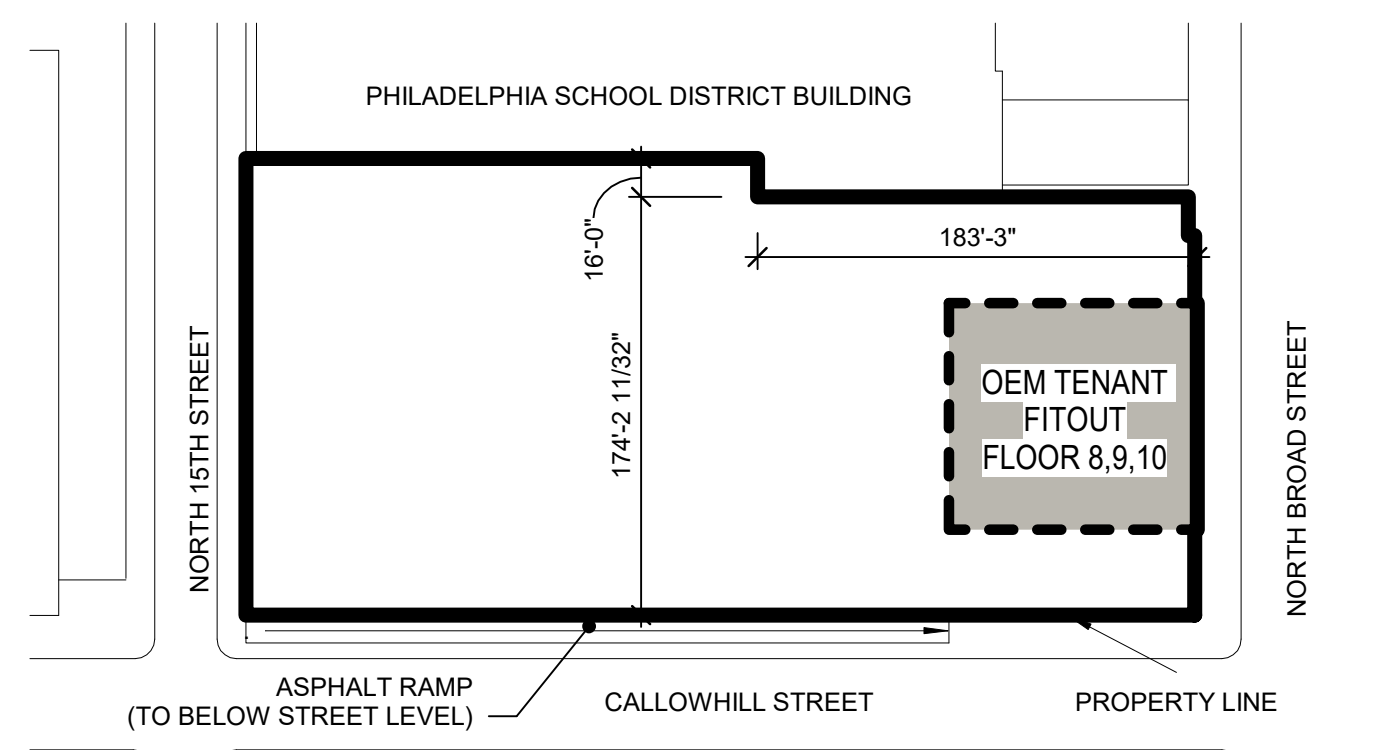
1. SEE A-108 FOR SYMBOLS LEGEND & GENERAL NOTES.
2. SEE A-700 FOR PARTITION TYPES.

**KEYNOTES - NEW CONSTRUCTION**

1. OFFSET CABLE ROUTE TO 7TH FLOOR AT SLAB ABOVE
2. FINISH CABLE / CONDUIT AND EXPOSED STRUCTURAL STEEL TO MATCH EXISTING STRUCTURE. PROVIDE 2 HR FIRE RATED FIRE STOP AT SLAB OPENING.
3. FACETED STOREFRONT IN CURVED WALL.
4. PROVIDE 2 HR FRERATED FIRESTOP AT ELEC CABLES PENETRATING SLAB
5. MILLWORK - SEE ELEVATION
6. ACOUSTIC GLAZING SYSTEM - SEE PLAN FOR STC RATING
7. RAISED FLOOR SYSTEM. PROVIDE ACCESS TO CABLES AT 4" RAISED FLOOR. - SEE ELEC DRAWINGS FOR GROUNDING
8. 1:12 SLOPE RAMP BY RAISED FLOOR MANUFACTURER
9. FIREARM LOCKERS
10. FURR OUT COLUMN - SEE RCP
11. REFRIGERANT LINE SETS - SEE MPE + STRUCTURAL DRAWINGS
12. ELECTRICAL / SPECIAL SYSTEMS EQUIPMENT - SEE ELEC. DRAWINGS



1 10TH FLOOR PLAN  
SCALE: 1/4" = 1'-0"



KEY PLAN - AREA OF WORK HIGH RISE 8-10  
SCALE: N.T.S.



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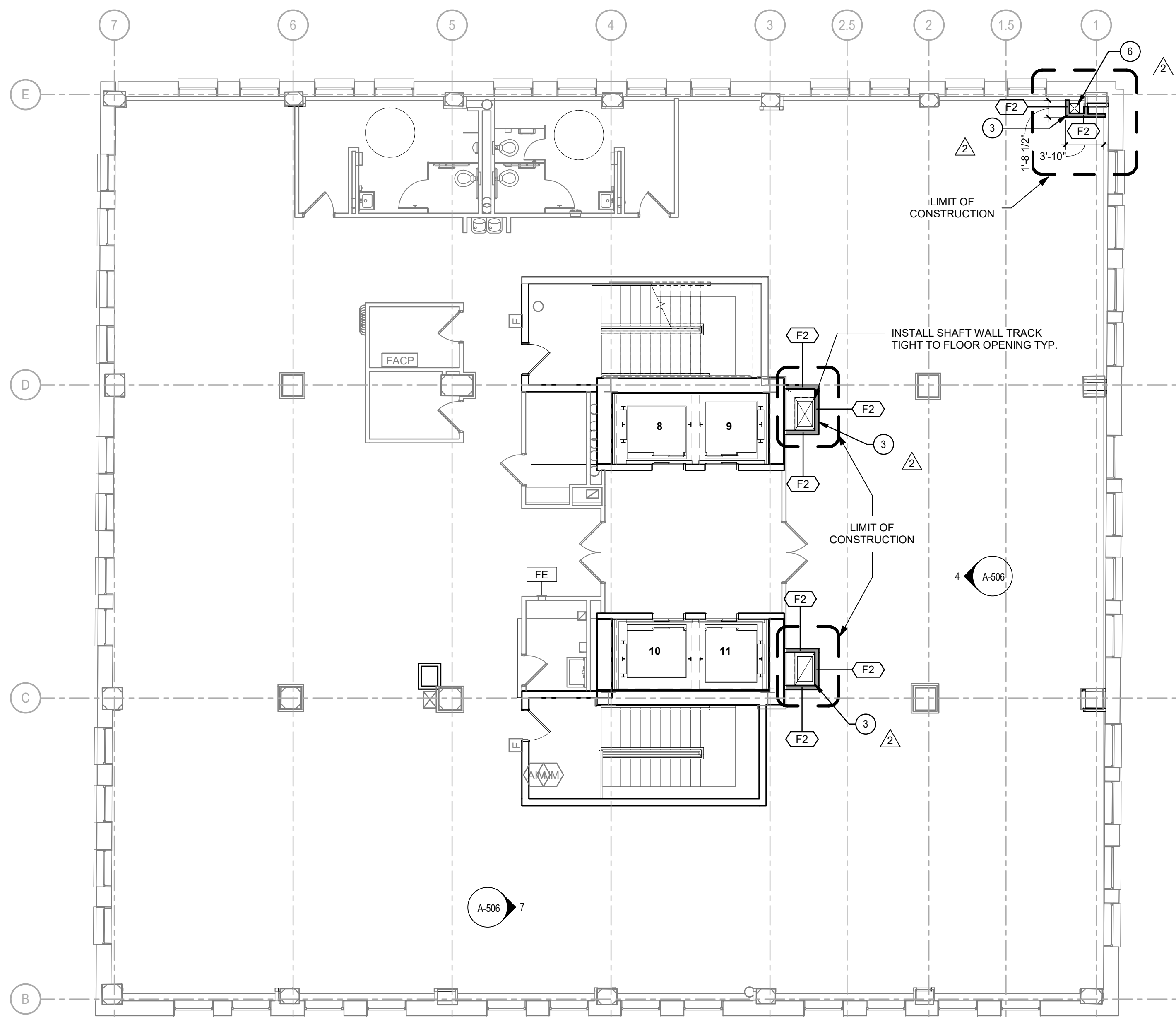
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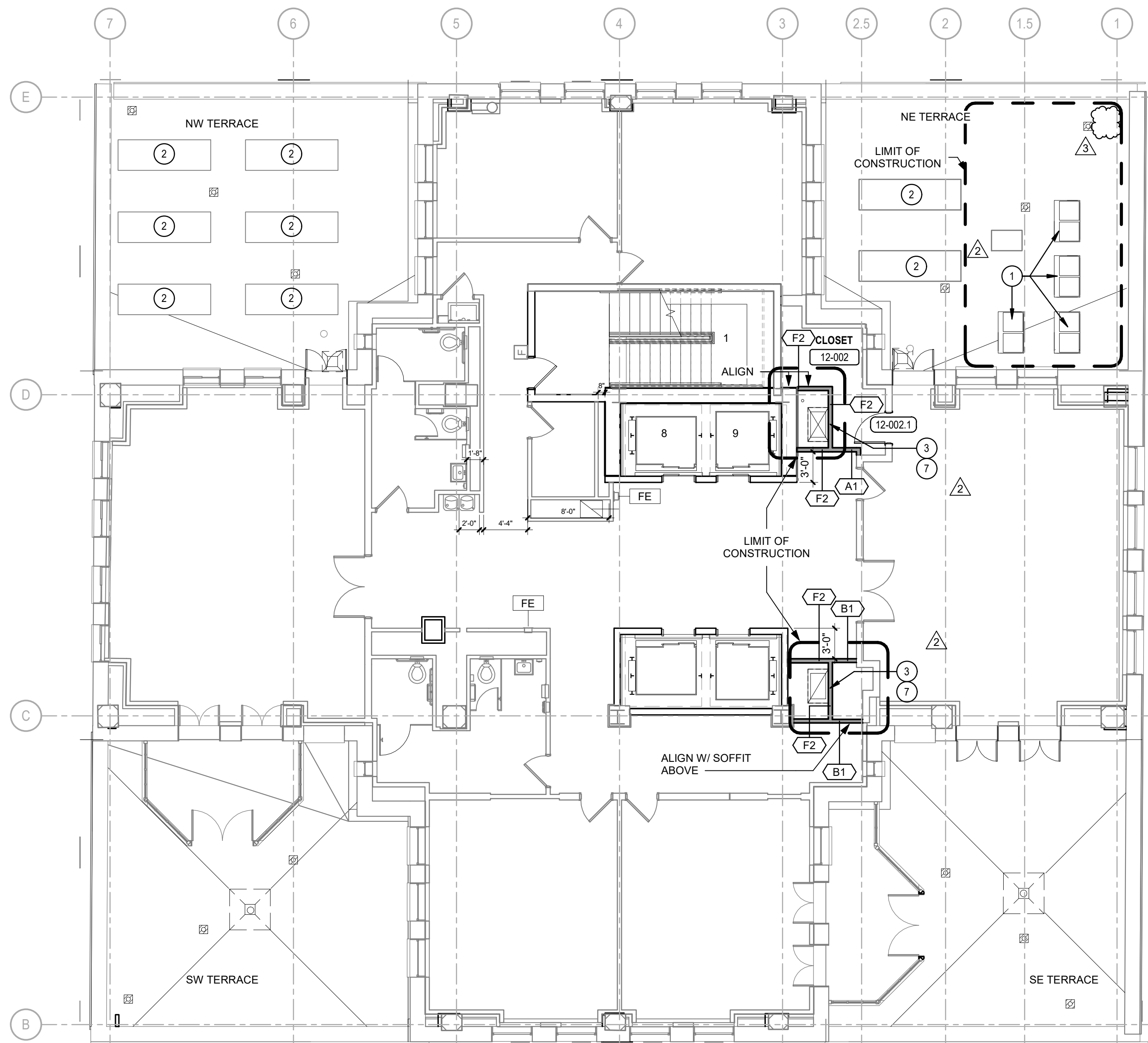
DRAWING TITLE:  
**10TH FLOOR PLAN**

SHEET NO.:  
**A-110**

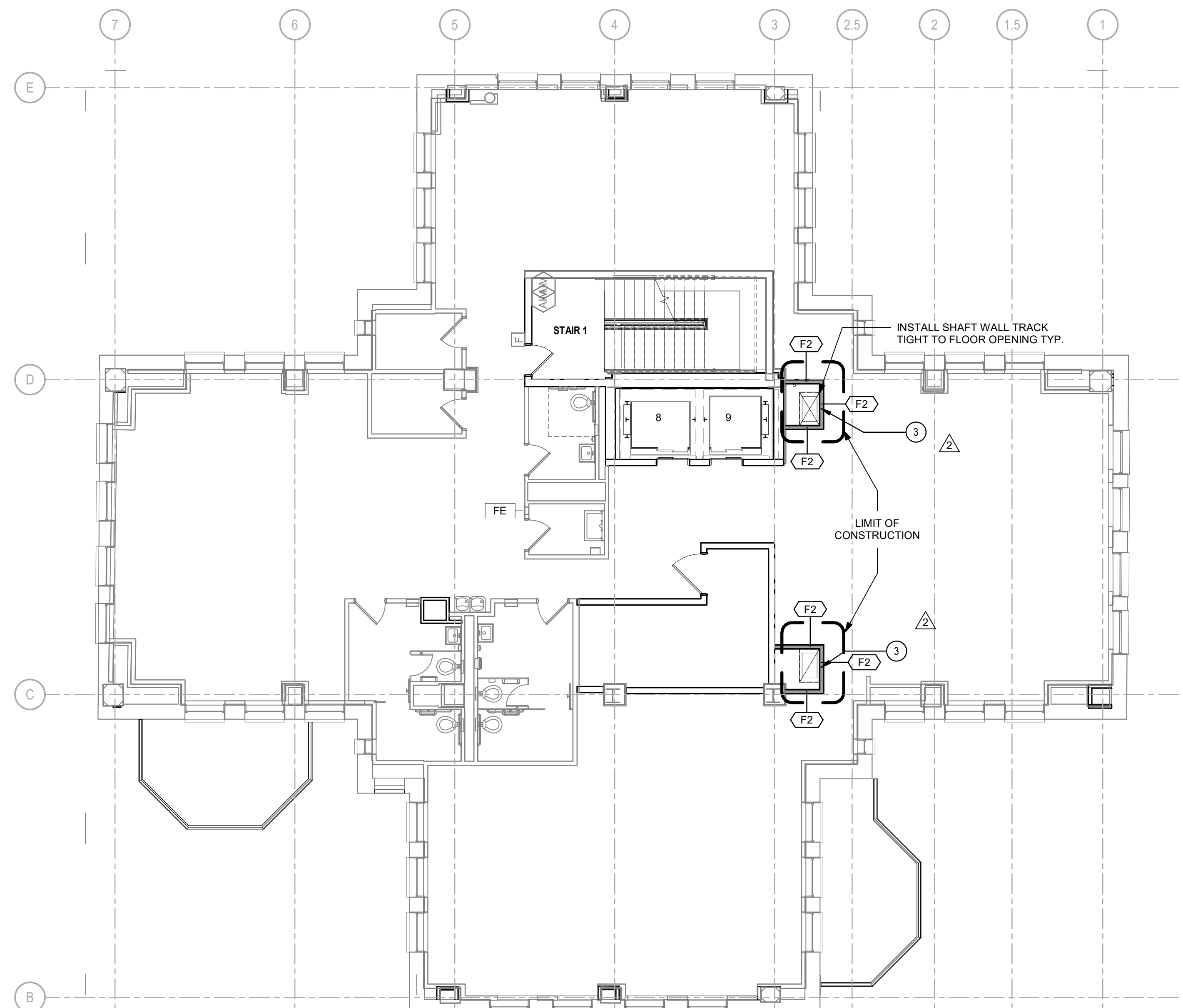




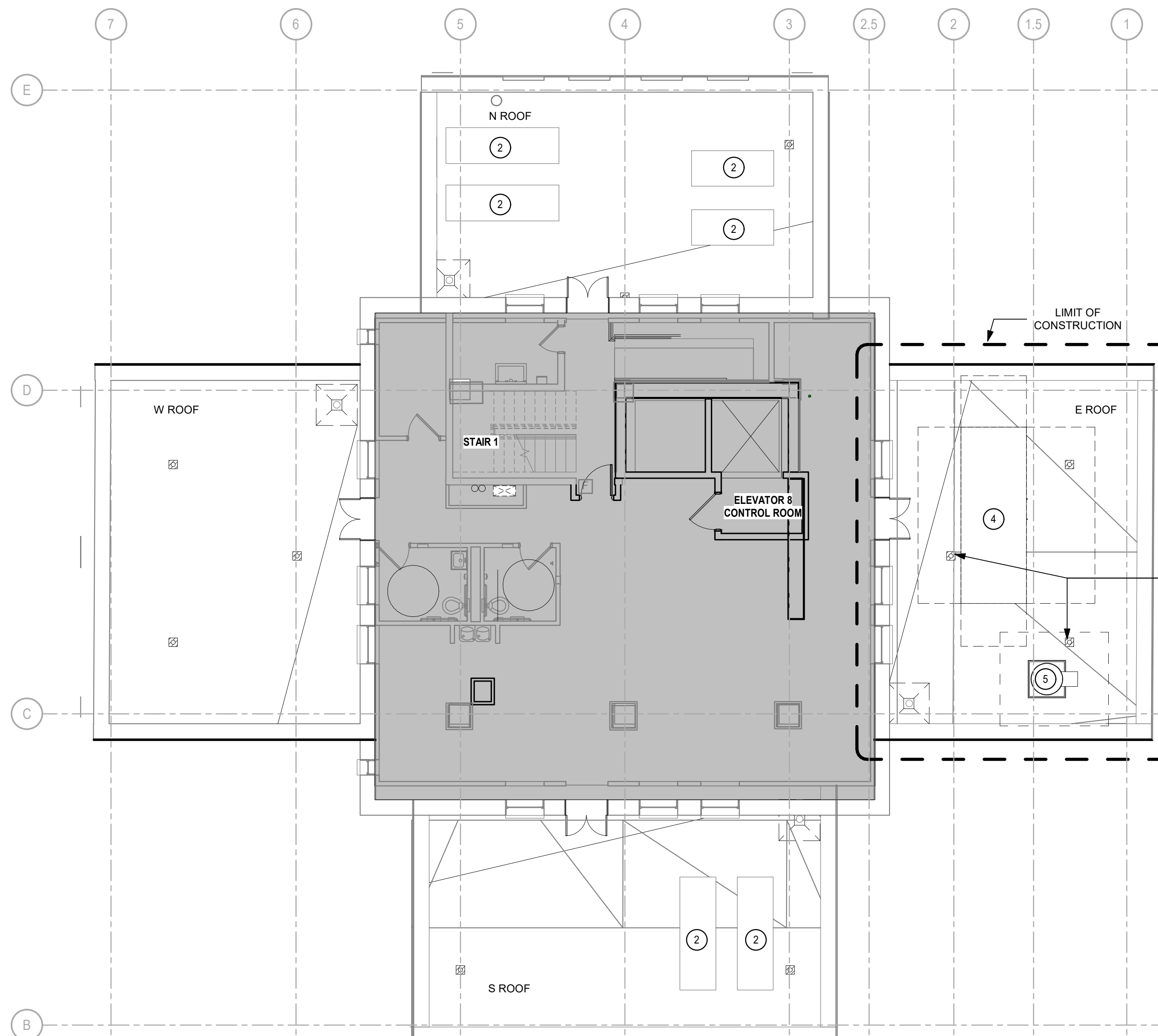
1 11TH FLOOR PLAN  
SCALE: 1/8" = 1'-0"



2 12TH FLOOR PLAN  
SCALE: 1/8" = 1'-0"



3 13TH FLOOR PLAN  
SCALE: 1/8" = 1'-0"



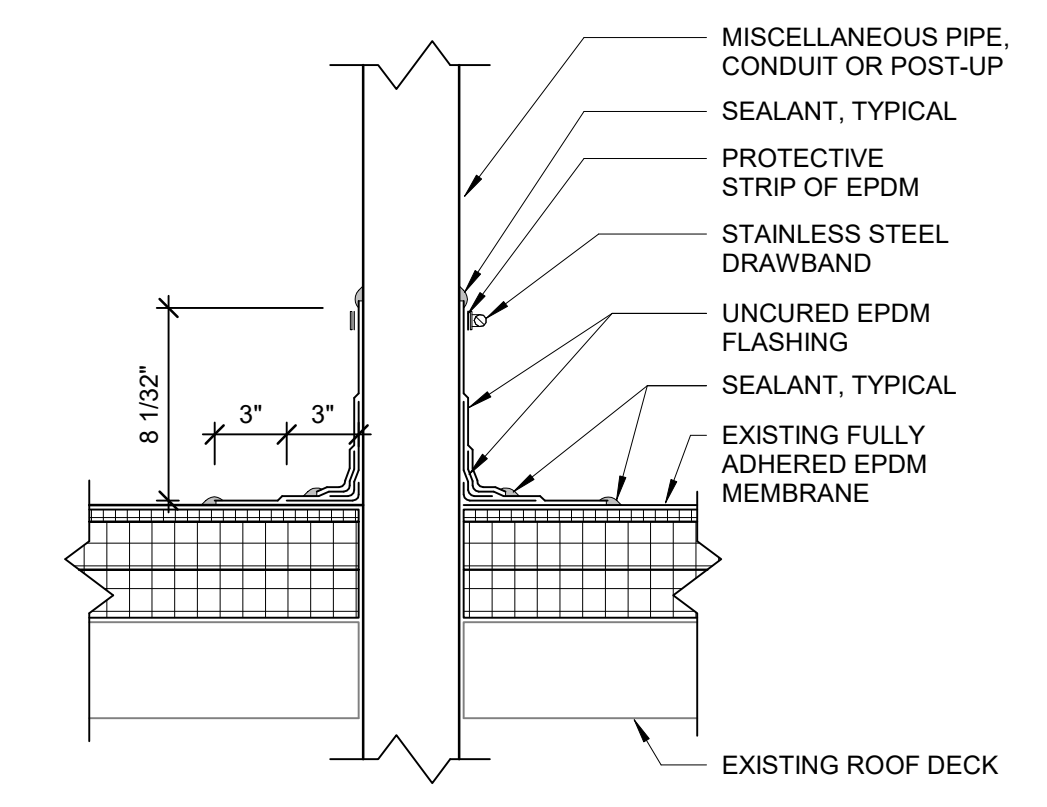
4 14TH FLOOR PLAN  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

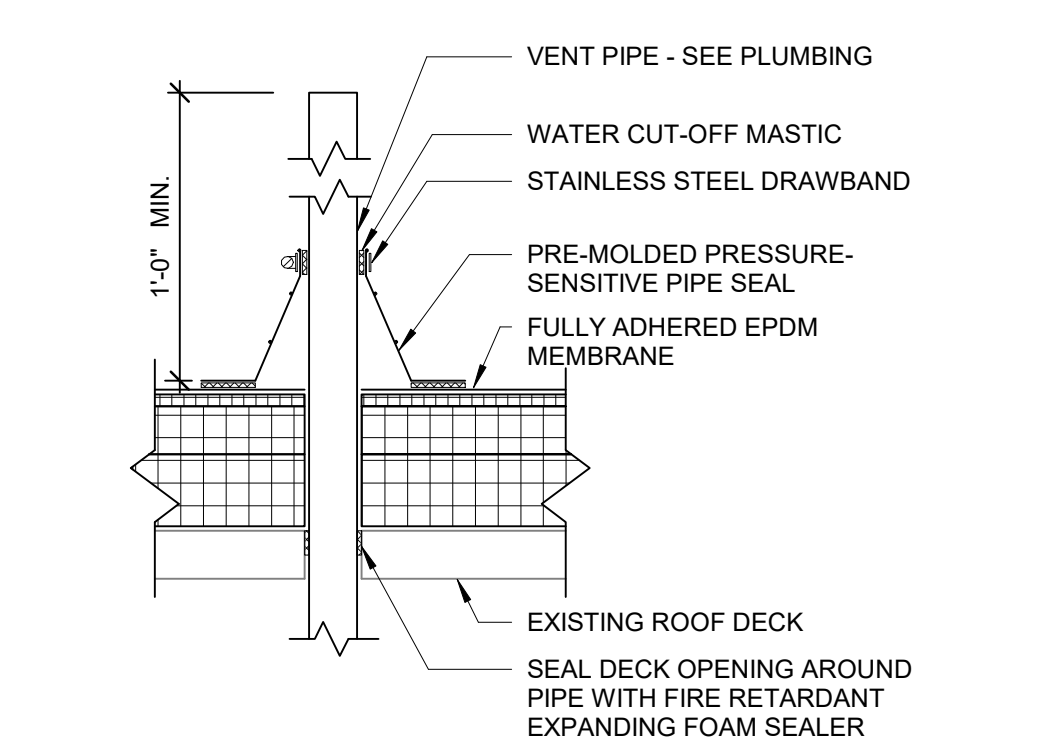
1. SEE G-101.1 & A-108 FOR GENERAL NOTES

**KEYNOTES - 11TH TO 14TH FLOORS**

- 1 CONDENSING UNITS - SEE MEP. PAINT ALL SURFACES OF UNITS THAT EXTEND ABOVE TOP OF PARAPET. APPROX TOP 3'-0" OF UNITS
- 2 EXISTING CONDENSING UNITS
- 3 LOCATE PARTITIONS TIGHT TO DUCT / CONDUIT U.L.D. - PROVIDE PAINT & BASE
- 4 DOAS UNIT - SEE MEP. SEE STRUCTURAL FOR SUPPORTS. PAINT ALL SURFACES OF DOAS THAT EXTEND ABOVE TOP OF PARAPET. APPROX TOP 3'-0" OF DOAS
- 5 SMOKE PURGE FAN - SEE MEP. SEE STRUCTURAL FOR SUPPORTS. PAINT ALL SURFACES OF FAN ENCLOSURE THAT EXTEND ABOVE TOP OF PARAPET. APPROX TOP 3'-0" OF ENCLOSURE
- 6 REFRIGERANT LINE SETS - SEE MEP + STRUCTURAL. PROVIDE 2 HR FIRE RATED FIRE STOP AT SLAB OPENING.
- 7 CUT & PATCH EXIST. CEILING AS REQ'D TO ACCOMMODATE THE WORK. DEMO EXIST LIGHT FIXTURE & TURN OVER TO OWNER.



5 TYPICAL FIELD WRAP  
SCALE: 1 1/2" = 1'-0"



- DETAIL NOTES:**
1. PRE-MOLDED PRESSURE-SENSITIVE PIPE SEAL MUST HAVE INTACT RIB AT THE TOP EDGE REGARDLESS OF PIPE DIAMETER
  2. EPDM PRIMER MUST BE APPLIED TO MEMBRANE SURFACE PRIOR TO APPLYING PRESSURE-SENSITIVE PIPE SEAL
  3. PROVIDE SIMILAR DETAIL FOR ALL MISCELLANEOUS PIPE AND CONDUITS ROOF PENETRATION. AT LOCATIONS WHERE THE USE OF PRE-MOLDED PRESSURE-SENSITIVE PIPE SEAL IS NOT POSSIBLE, PROVIDE FIELD WRAP AS SHOWN ON DETAILS

6 TYPICAL VENT PIPE FLASHING  
SCALE: 1 1/2" = 1'-0"



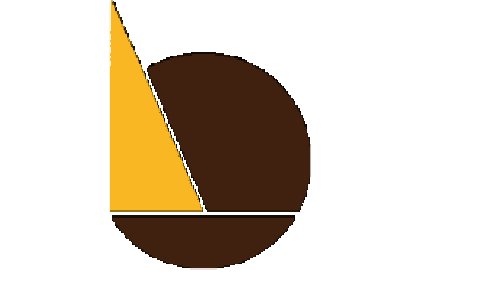
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428 North 2nd Street  
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FLOORS 8, 9 AND 10**

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SUBMISSION  
10/22/2020  
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PROJECT NUMBER: 304103-120  
SCALE: As indicated  
DATE: 10/06/2020  
DRAWN BY: SM  
CHECKED BY: PT

DRAWING TITLE:  
**11TH-13TH FLOOR  
PLAN & 14TH  
FLOOR ROOF PLAN**

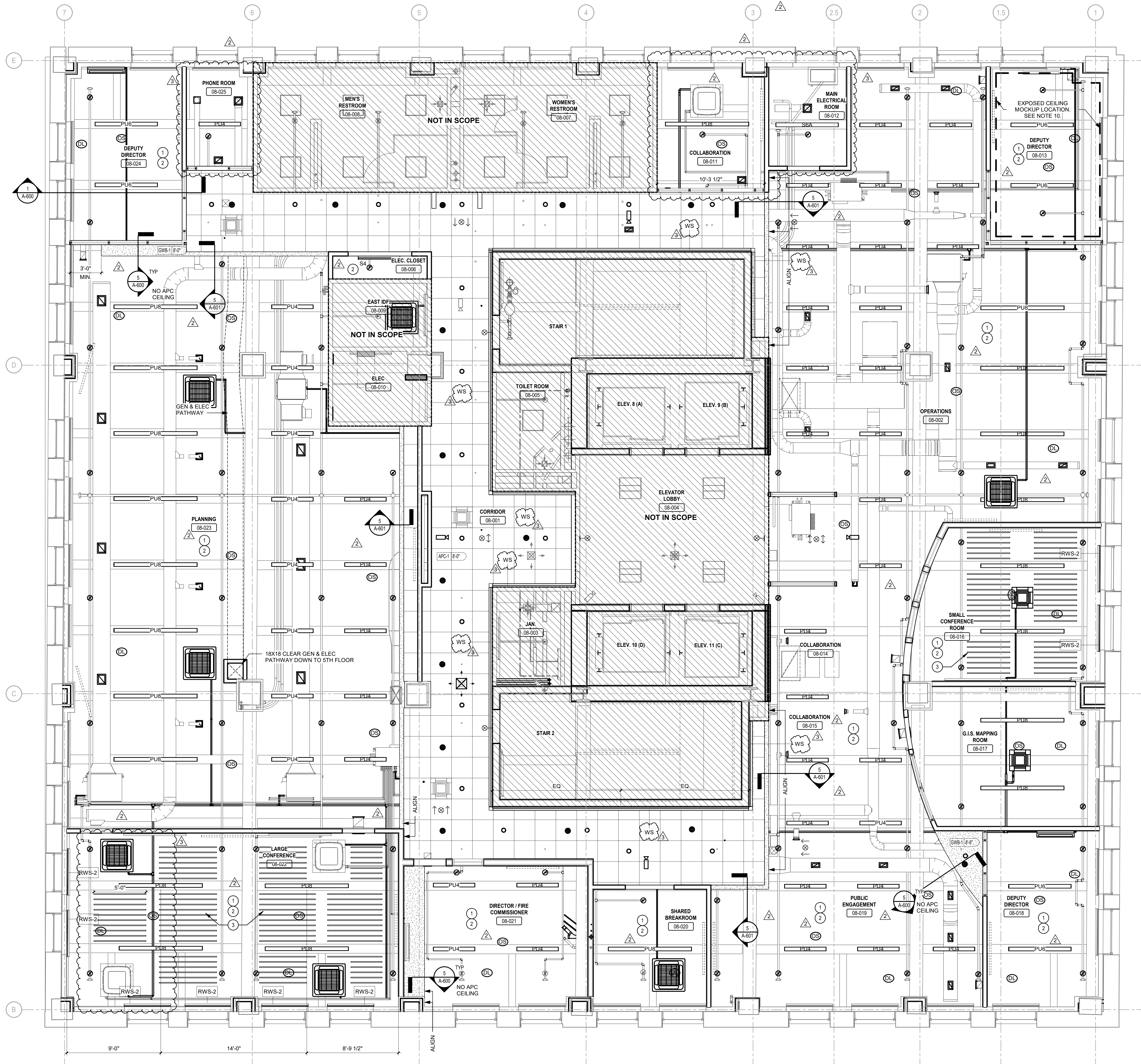
SHEET NO.:

**A-111**









1 8TH FLOOR REFLECTED CEILING PLAN  
SCALE: 1/4" = 1'-0"

**SYMBOLS LEGEND - RCP**

NOTE: ALL SYMBOLS NOT NECESSARILY SHOWN ON PLAN.

SYMBOL	DESCRIPTION
XXX# T'-0"	CEILING HEIGHT TAG
[Symbol]	CEILING FINISH KEY. SEE FINISH SCHEDULE
[Symbol]	NEW ACOUSTICAL CEILING TILE & GRID
[Symbol]	NEW GWB & SOFFIT
[Symbol]	24" x 24" RECESSED TROFFER LIGHT FIXTURE
[Symbol]	24" x 48" RECESSED TROFFER LIGHT FIXTURE
[Symbol]	RECESSED DOWN LIGHT FIXTURE
[Symbol]	LED EXIT SIGN (WALL/CEILING)
[Symbol]	SPRINKLER HEAD
[Symbol]	24" x 24" RECESSED CEILING HVAC SUPPLY DIFFUSER
[Symbol]	24" x 24" RECESSED CEILING HVAC RETURN DIFFUSER
[Symbol]	LINEAR LIGHT FIXTURE
[Symbol]	THERMOSTAT
[Symbol]	RWS-2 BLACKOUT SHADES - SEE SPEC

**GENERAL NOTES - RCP**

- ROOMS NOTED ON PLANS AS "NOT IN SCOPE" ARE EXISTING, PART OF THE BASE BUILDING CONSTRUCTION. HOWEVER, WORK UNDER THIS CONTRACT IS INCLUDED IN SOME OF THESE ROOMS, AS INDICATED ON FP, P. M. E. & SS SERIES DRAWINGS. CUT & PATCH AS REQUIRED TO ACCOMMODATE THE WORK OF THIS CONTRACT. REPAIR ANY DAMAGE TO MATCH EXISTING CONDITIONS.
- ALL NEW CEILING HEIGHT TO BE (8'-0") UNLESS OTHERWISE NOTED.
- ALL PENDANT FIXTURES TO BE 8'-0" AFF MAX OR MATCH ADJACENT CEILING HEIGHT AS NOTED ON PLANS LOWER THAN 8'-0" AFF. UNLESS NOTES OTHERWISE.
- ALL WALL MOUNTED DEVICES (IE. THERMOSTATS, LIGHT SWITCHES, ELEC. OUTLETS, ETC.) TO BE ALIGNED VERTICALLY ON BOTTOM EDGE AND HORIZONTALLY ON CENTER. GANGED IN ONE PLATE.
- ALL LIGHT FIXTURES SHALL BE NEW AND PROVIDED & INSTALLED BY ELECTRICAL CONTRACTOR. UNLESS OTHERWISE NOTED.
- ALL EXISTING NEW AND REUSED LIGHT FIXTURES, CEILING TILE, CEILING GRID, REGISTERS, GRILLES & DIFFUSERS THAT ARE DAMAGED AND/OR STAINED AND/OR DENTED SHALL BE REPLACED BY NEW ONES.
- ALL DOWN LIGHTS FIXTURES WITHIN A 2'x2' OR 2'x4' CEILING TILE SHALL BE CENTERED WITHIN SUCH TILE. UNLESS OTHERWISE NOTED.
- ALL NEW AND RELOCATED SPRINKLER HEADS WITHIN A 2'x2' OR 2'x4' CEILING TILE SHALL BE CENTERED WITHIN SUCH TILE. UNLESS OTHERWISE NOTED.
- SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
- REMOVE EXIST. MANUAL SHADES AT NEW RWS-2 LOCATIONS & TURN OVER TO OWNER. PROTECT EXIST. MANUAL ROLLER SHADES AT ALL OTHER WINDOW LOCATIONS.
- EXPOSED CONCRETE STRUCTURE CEILING CRACKS.
  - REMOVE LOOSE OR FLAKING PAINT.
  - FOR EXPOSED CEILING CONCRETE SLAB, MAJOR & MINOR BEAMS, PATCH CRACKS, HOLES, MISSING MATERIAL OR OTHER DEFECTS GREATER THAN 2" IN ANY DIMENSION, FLUSH WITH ADJACENT MATERIALS.
  - PAINT EXPOSED STRUCTURE PER FINISH SCHEDULE.
  - PREPARE MOCKUP FOR REVIEW AND APPROVAL. SEE PLAN FOR LOCATION.

**KEYNOTES**

- EXPOSED STRUCTURE & DECK TO BE PAINTED P-1 UNLESS NOTED OTHERWISE. SEE FINISH SCHEDULE.
- EXPOSED DUCTWORK, PIPING AND CONDUIT SHALL BE PAINTED TO MATCH STRUCTURE ABOVE UNLESS NOTED OTHERWISE. SEE SPECS.
- SBP-1 1'-0" TALL ACOUSTIC Baffles, B.O. Baffles 9'-0" AFF. SEE SPECS.
- APC-2 APC CLOUD SYSTEM, B.O. CLOUD 8'-0" AFF. SEE SPECS.
- APC-4 DIRECT ATTACHED 2'x4' PANELS MOUNTED TO DECK. SEE DETAIL 3/A-600.



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DATE: 10/06/2020  
DRAWN BY: SM  
CHECKED BY: PT

DRAWING TITLE:  
**8TH FLOOR REFLECTED CEILING PLAN**

SHEET NO.:  
**A-208**



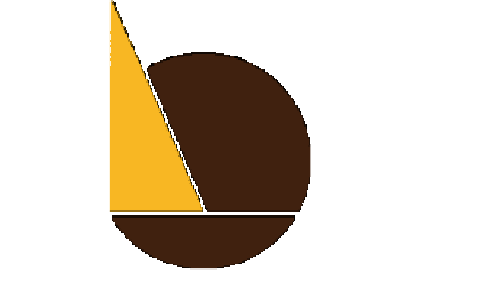


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 CHECKED BY: PT

DRAWING TITLE:  
**9TH FLOOR  
 REFLECTED  
 CEILING PLAN**

SHEET NO.:

**A-209**

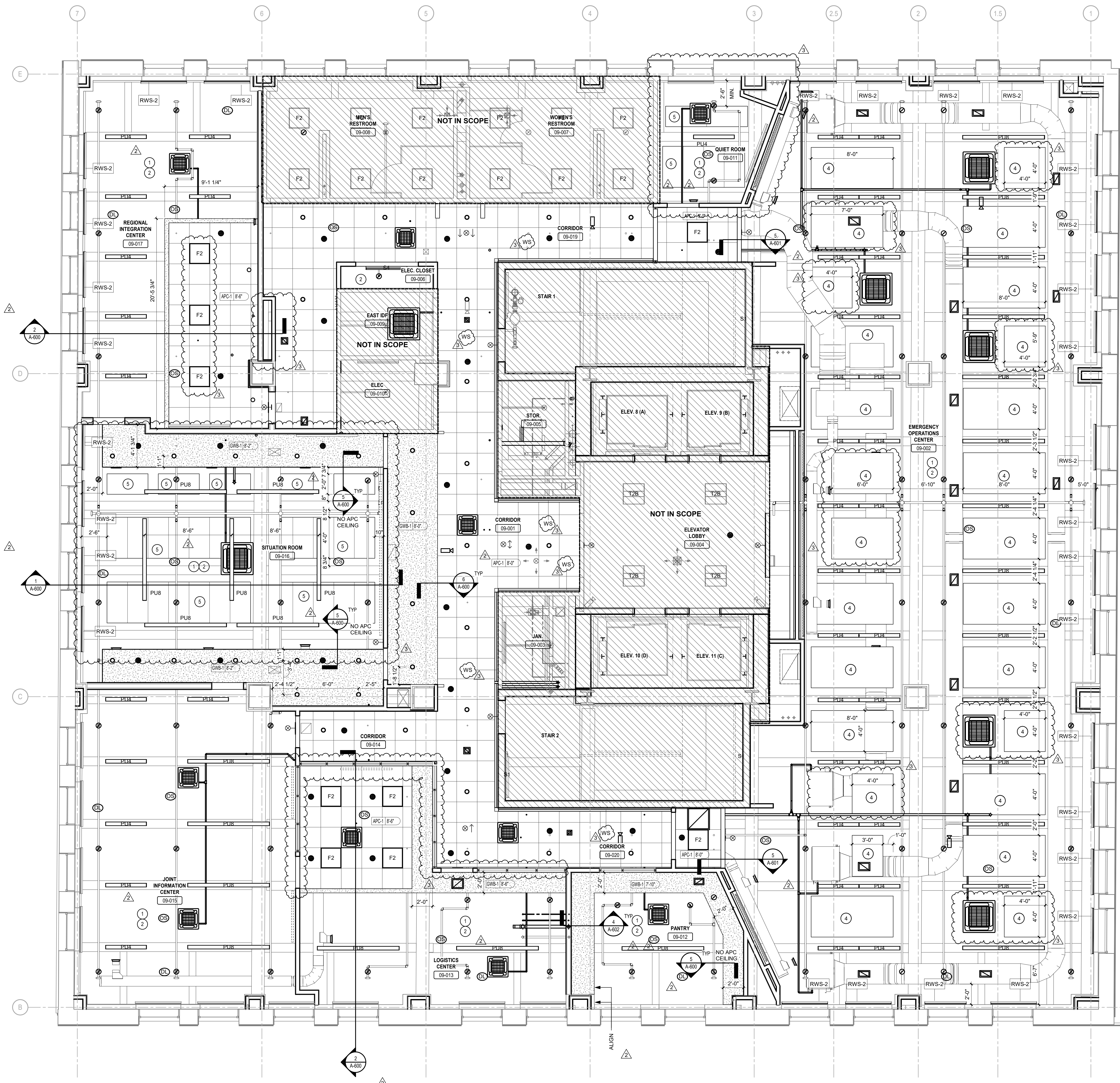
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**GENERAL NOTES - RCP**

1. SEE A-208 FOR SYMBOLS LEGEND - RCP & GENERAL NOTES - RCP.

**KEYNOTES**

- 1 EXPOSED STRUCTURE & DECK TO BE PAINTED P-1 UNLESS NOTED OTHERWISE. SEE FINISH SCHEDULE.
- 2 EXPOSED DUCTWORK, PIPING AND CONDUIT SHALL BE PAINTED TO MATCH STRUCTURE ABOVE UNLESS NOTED OTHERWISE. SEE SPECS.
- 3 SSP-1 1'-0" TALL ACOUSTIC BAFFLES. B.O. BAFFLE = 9'-5" AFF. SEE SPECS.
- 4 APC-2 APC CLOUD SYSTEM. B.O. CLOUD = 9'-5" AFF. SEE SPECS.
- 5 APC-4 DIRECT ATTACHED 2 X 4 PANELS MOUNTED TO DECK. SEE DETAIL 304-600.



**9TH FLOOR REFLECTED CEILING PLAN**  
 SCALE: 1/4" = 1'-0"

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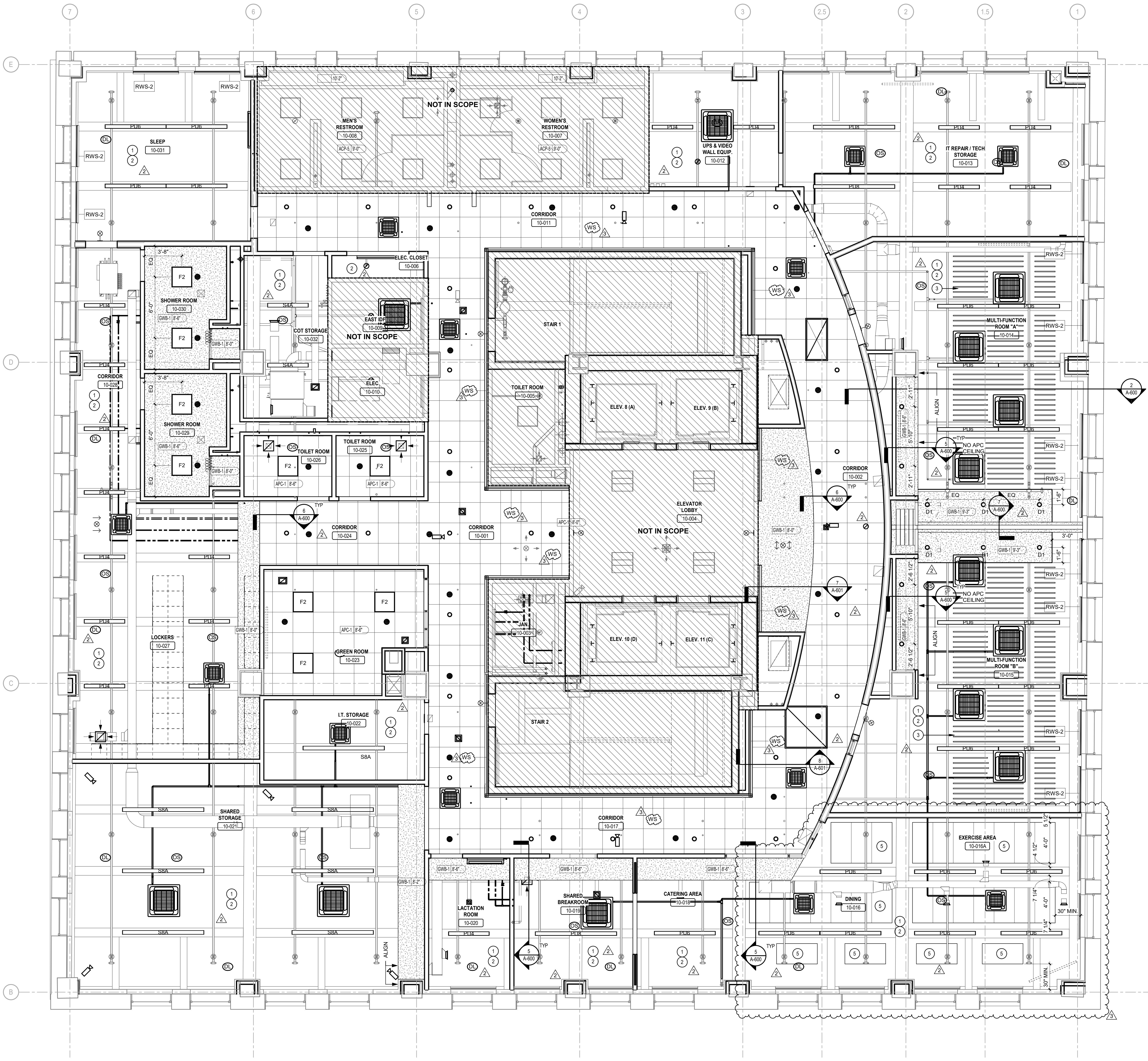


**GENERAL NOTES - RCP**

1. SEE A-208 FOR SYMBOLS LEGEND - RCP & GENERAL NOTES - RCP.

**KEYNOTES**

- 1 EXPOSED STRUCTURE & DECK TO BE PAINTED P-1 UNLESS NOTED OTHERWISE. SEE FINISH SCHEDULE
- 2 EXPOSED DUCTWORK, PIPING AND CONDUIT SHALL BE PAINTED TO MATCH STRUCTURE ABOVE UNLESS NOTED OTHERWISE. SEE SPECS.
- 3 SBP-1 1'-0" TALL ACOUSTIC Baffles. B.O. BAFFLE = 9'-5" AFF. SEE SPECS
- 4 APC-2 APC CLOUD SYSTEM. B.O. CLOUD = 9'-5" AFF. SEE SPECS
- 5 APC-4 DIRECT ATTACHED 2 X 4 PANELS MOUNTED TO DECK SEE DETAIL 3/A-600



1 10TH FLOOR REFLECTED CEILING PLAN  
SCALE: 1/4" = 1'-0"



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428 North 2nd Street  
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Telephone: 215 413 3700

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Arora Engineers, Inc.  
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Chadds Ford, PA 19317  
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PHILADELPHIA PUBLIC SERVICES BUILDING  
400 NORTH BROAD STREET, PHILADELPHIA, PA 19130  
FLOORS 8, 9 AND 10**

- PROGRESS SET
- CLIENT REVIEW
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- CODE REVIEW SET
- ISSUED FOR CONSTRUCTION

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**09/18/2020**  
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3 11/02/2020 ADDENDUM NO. 3

PROJECT NUMBER: 304103-120  
SCALE: As indicated  
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DRAWING TITLE:  
**10TH FLOOR  
REFLECTED  
CEILING PLAN**

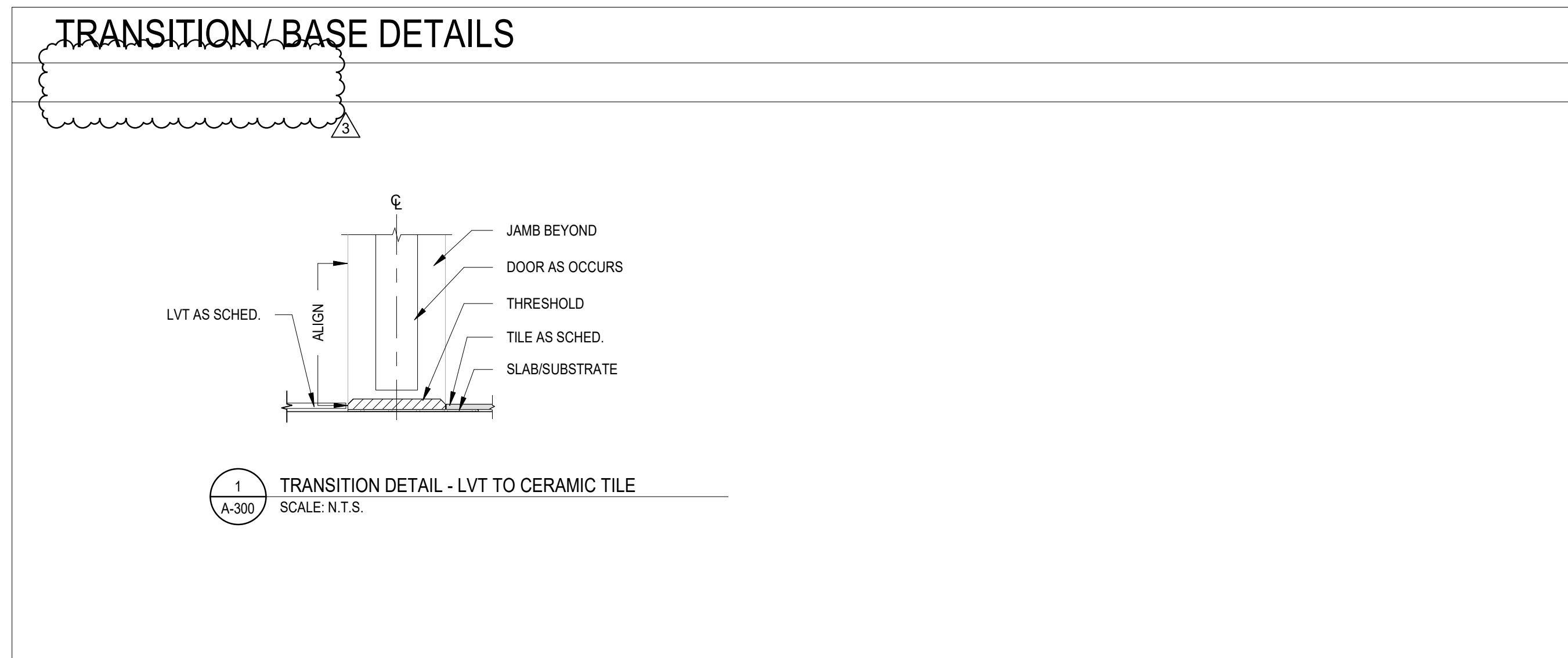
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FINISH GROUP SCHEDULE						
FINISH GROUP	DESCRIPTION	FLOOR	BASE	WALL	WALL ACCENT	CEILING
FG-1	LOCKERS, DINING, PANTRY, CATERING	LVT-1	B-1	P-1	NONE	SEE RCP
FG-1A	CORRIDORS	LVT-1	B-1	P-1	P-2	SEE RCP
FG-1B	CORRIDORS	LVT-1	B-1	P-1	P-3	SEE RCP
FG-1C	CORRIDORS	LVT-1	B-1	P-1	P-4	SEE RCP
FG-1D	BREAKROOM, PANTRY, EXERCISE	LVT-1	B-1	P-1	P-6	SEE RCP
FG-2	PLANNING	CPT-1	B-1	P-1	NONE	SEE RCP
FG-2A	OPERATIONS, COLLAB., ENGAGEMENT	CPT-1	B-1	P-1	P-2	SEE RCP
FG-2B	LACTATION	CPT-1	B-1	P-1	P-5	SEE RCP
FG-3	DIRECTORS, PHONE, SLEEP	CPT-3	B-1	P-1	NONE	SEE RCP
FG-3A	CONFERENCE, COLLAB., C MULTI-FUNCT., GREEN	CPT-3	B-1	P-1	P-5	SEE RCP
FG-4	SITUATION, JCP, CORRIDORS	CPT-2	B-1	P-1	NONE	SEE RCP
FG-4A	EQC, CORRIDORS	CPT-2	B-1	P-1	P-3	SEE RCP
FG-4B	LOGISTICS, JIC, RIC	CPT-2	B-1	P-1	P-5	SEE RCP
FG-5	STORAGE, ELECTRICAL	VCT-1	B-1	P-1	NONE	SEE RCP
FG-5A	IT/TECH STORAGE	VCT-1	B-1	P-1	P-5	SEE RCP
FG-5B	COT STORAGE	VCT-1	B-1	P-1	WC-1	SEE RCP
FG-6	SHOWER, TOILET	CT-1	CT-1	P-1	CT-2	SEE RCP

FINISH SCHEDULE							
TAG	MATERIAL	MANUFACTURER	PRODUCT	COLOR	SIZE	INSTALLATION METHOD	REMARKS
<b>FLOOR</b>							
CPT-1	CARPET TILE	ATLAS	HANGOUT, T7996 SETTLE IN	99602 STORMY NIGHT	12"x36"	PLANK	
CPT-2	CARPET TILE	STATICWORX	SHADOWFX CHENILE	100216 RETROSPECTIVE	2'x2'	TILE	
CPT-3	CARPET TILE	ATLAS	HANGOUT, T7995 STAY AWHILE	99602 STORMY NIGHT	12"x36"	PLANK	
CT-1	CERAMIC TILE	DALTILE	LINDEN POINT	LP21 GRIGIO	12"x24"	TILE	
LVT-1	LUXURY VINYL TILE	INTERFACE	VINYL FLOORING	A00308 LIGHT CONCRETE	2'x2'	TILE	
VCT-1	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON, IMPERIAL TEXTURE	51915 CHARCOAL	12"x12"	TILE	
<b>WALL</b>							
CT-2	CERAMIC TILE	DALTILE	MODERN DIMENSION	0190 ARTIC WHITE	4.25"x8"	TILE	
MPP-1	MINERAL PROFILE PANNELLING	MODULAR ARTS	ACCENT WALL	SANDSTONE F01			PAINT WITH GENERAL WALL PAINT COLOR P-1
P-1	PAINT	BENJAMIN MOORE	GENERAL WALL PAINT	OC-68 DISTANT GREY		PAINT	EGGSHELL FINISH, GENERAL WALL PAINT COLOR U/I/O
P-2	PAINT	BENJAMIN MOORE	ACCENT WALL PAINT	2066-10 BLUE		PAINT	EGGSHELL FINISH, ACCENT PAINT COLOR
P-3	PAINT	BENJAMIN MOORE	ACCENT WALL PAINT	2067-40 BLUE LAPIS		PAINT	EGGSHELL FINISH, ACCENT PAINT COLOR
P-4	PAINT	BENJAMIN MOORE	ACCENT WALL PAINT	2067-50 SUMMER BLUE		PAINT	EGGSHELL FINISH, ACCENT PAINT COLOR
P-5	PAINT	BENJAMIN MOORE	ACCENT WALL PAINT	HC-178 CHARCOAL SLATE		PAINT	EGGSHELL FINISH, ACCENT PAINT COLOR
P-6	PAINT	BENJAMIN MOORE	ACCENT WALL PAINT	TBD		PAINT	EGGSHELL FINISH, ACCENT PAINT COLOR
WA-1	DECORATIVE WALL PANELS	3FORM	ECORESIN 38", ASTRO	LID-1007269			ASTRO, SCALE B, MYTHICAL B60, OPACITY IV
<b>CEILING</b>							
APC-1	ACOUSTIC PANEL CEILING	USG	ACOUSTICAL CEILING TILES		2'x2'	TILE	
APC-2	ACOUSTIC PANEL CEILING	ARMSTRONG	CLOUD SYSTEM				
P-7	PAINTED CEILING	BENJAMIN MOORE	CEILING PAINT	2132-10 BLACK		PAINT	FLAT FINISH, CEILING PAINT COLOR
SBP-1	ACOUSTIC BAFFLE CEILING	DECOUSTICS	ACOUSTICAL FABRIC BAFFLES		2" WIDTH		
<b>BASE</b>							
B-1	RUBBER BASE	ROPPE	4" RUBBER COVE BASE	123 CHARCOAL	4"		
B-2	RUBBER BASE	ROPPE	4" RUBBER STRAIGHT BASE	123 CHARCOAL	4"		
CT-1	PORCELAIN BASE TILE	DALTILE	LINDEN POINT	LP21 GRIGIO	6"x12"	TILE	CUT TILE WITH RONDEC-RB SCHLUDER STRIP ON TOP
T-1	TRANSITION STRIP	SCHLUDER	SCHLUDER-RONDEC-RB	SATIN ANODIZED			TOP CUT BASE TILE
T-2	TRANSITION STRIP	SCHLUDER	SCHLUDER-RENG-U	STAINLESS STEEL V2A			BETWEEN LVT-1 AND CT-1
T-3	TRANSITION STRIP	ROPPE	TRANSITION	123 CHARCOAL			USE APPROPRIATE SIZE BETWEEN LVT-1 AND VCT-1
<b>MISCELLANEOUS</b>							
FRP	FIBRE REINFORCED PLASTIC						SEE SPEC
N-1	RUBBER NOSING						SEE SPEC
PL-1	PLASTIC LAMINATE	NEVAMAR	PLASTIC LAMINATE	RECON OAK W20005N HI-LUSTER			
RWS-2	ROLLING WINDOW SHADES						ELEC. BLACK OUT SHADES SEE ELEC DWGS.
SS-1	SOLID SURFACE	CORIAN	CORIAN SOLID SURFACE	EVEREST			
WC-1	WALL SHEET PROTECTION	ACROVYN	ABUSE RESISTANT WC	GALVESTON GRAY #315	0.06"		



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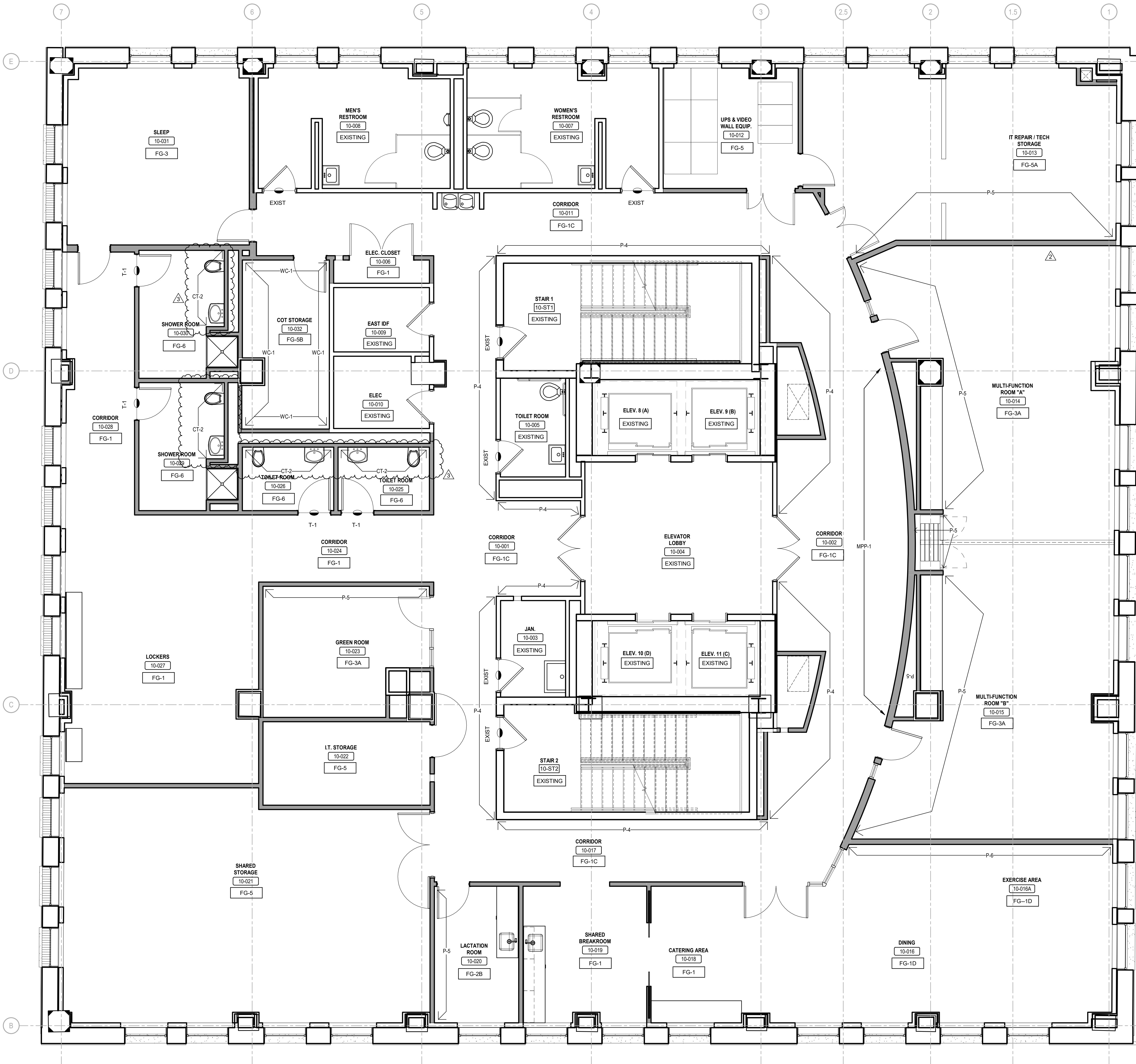
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**FINISH SCHEDULE**

SHEET NO:  
**A-300**



GENERAL NOTES - FINISH

1. SEE A-308 FOR TYPICAL FINISH NOTES.



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DRAWING TITLE:  
**10TH FLOOR  
FINISH PLAN**

SHEET NO.:  
**A-310**

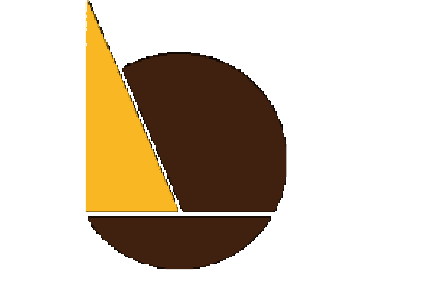




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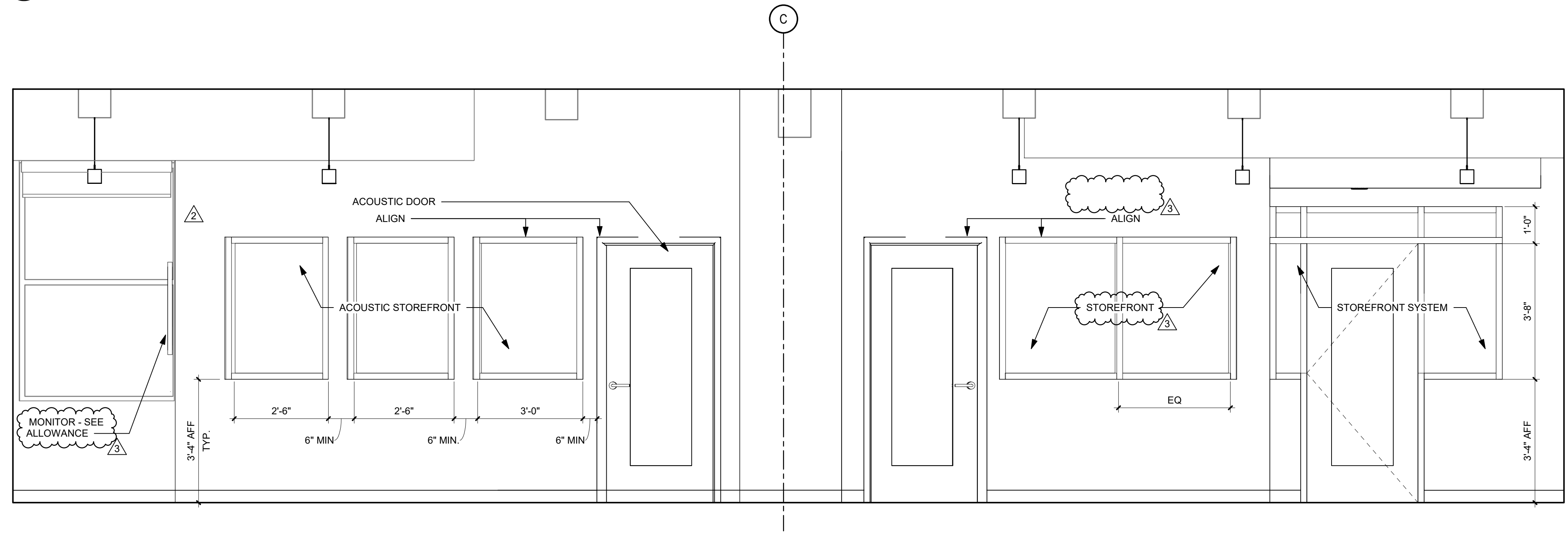
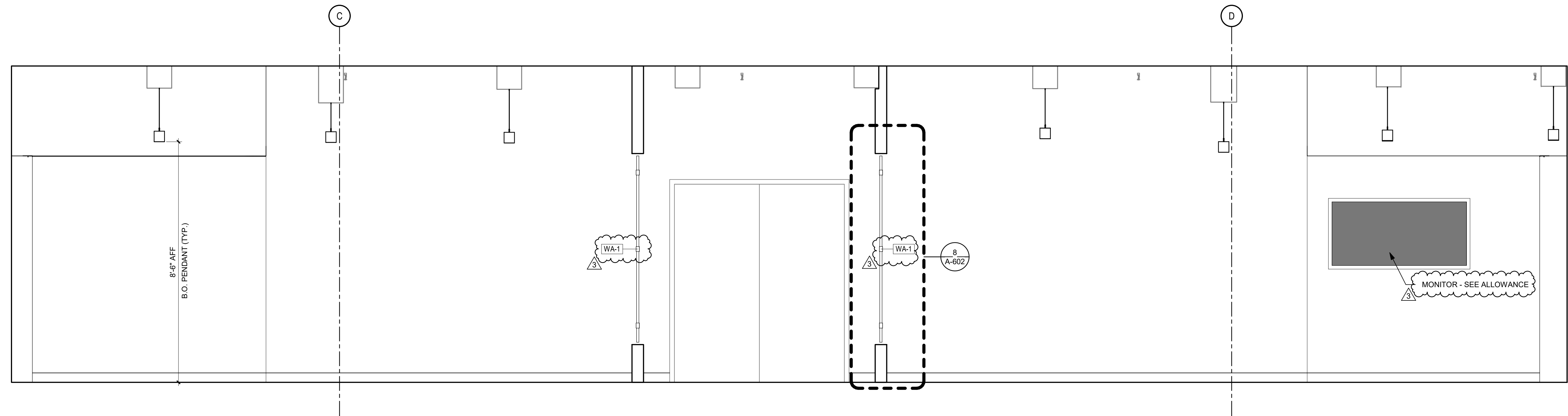
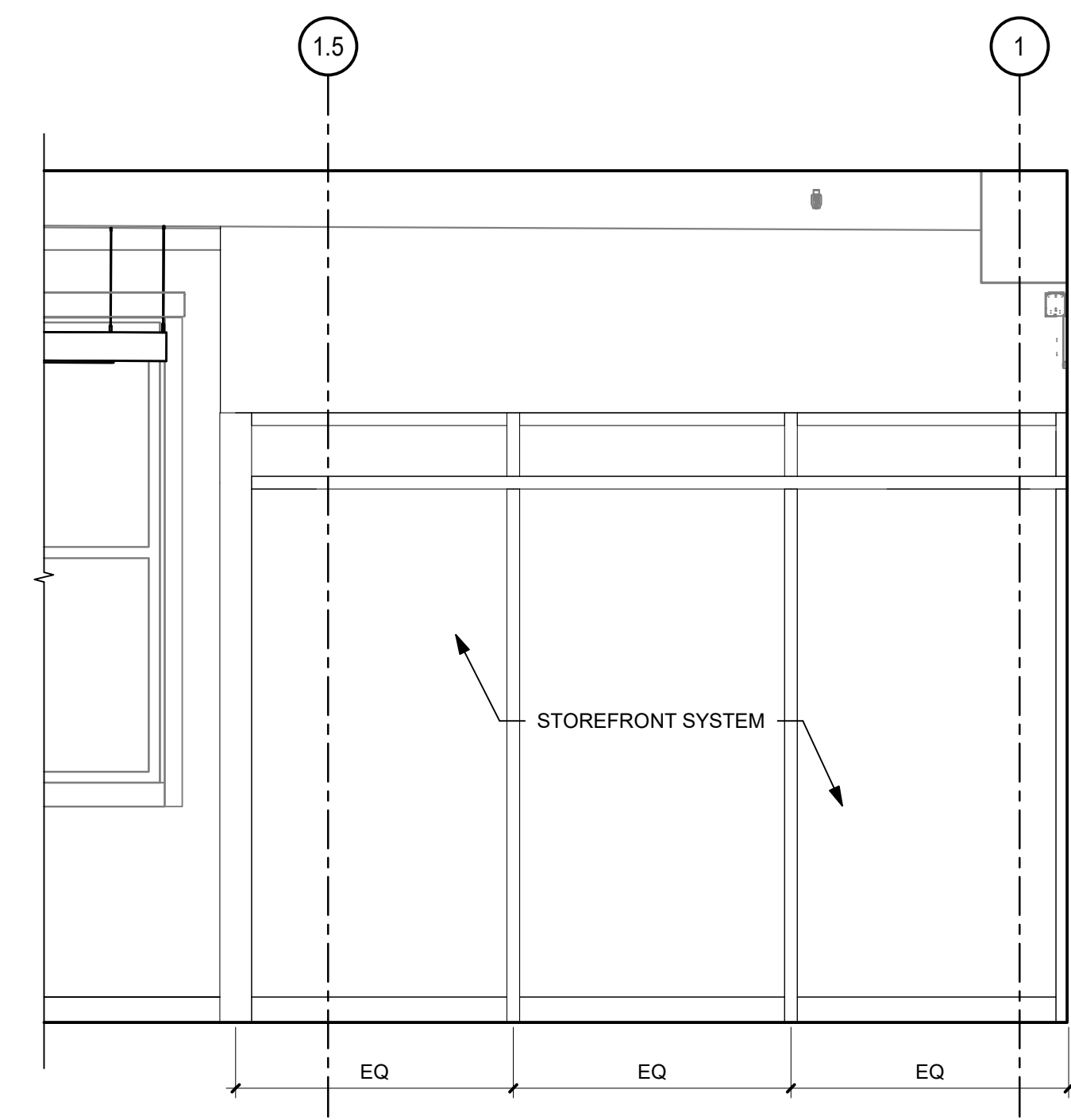
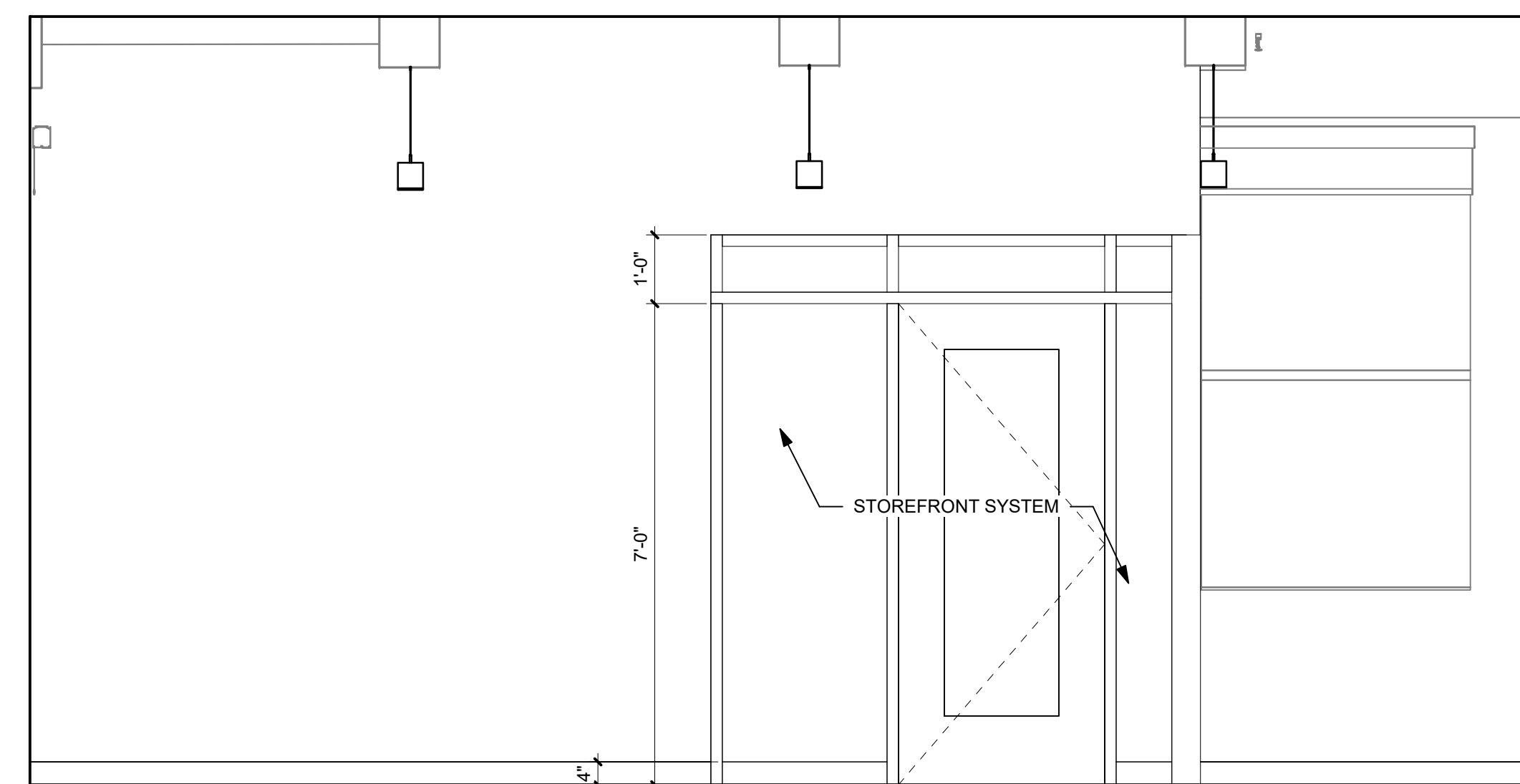
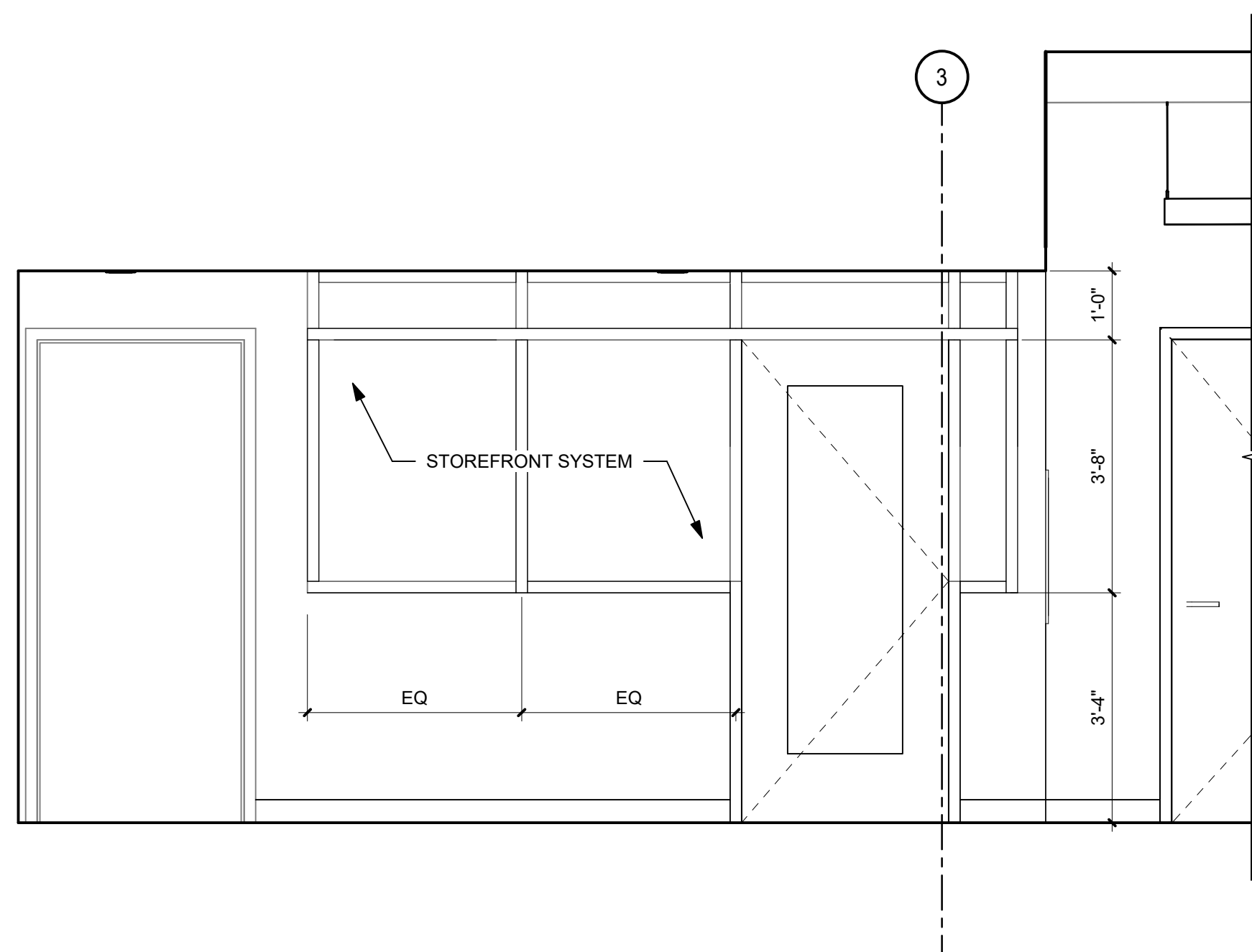
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INTERIOR  
ELEVATIONS

SHEET NO.:

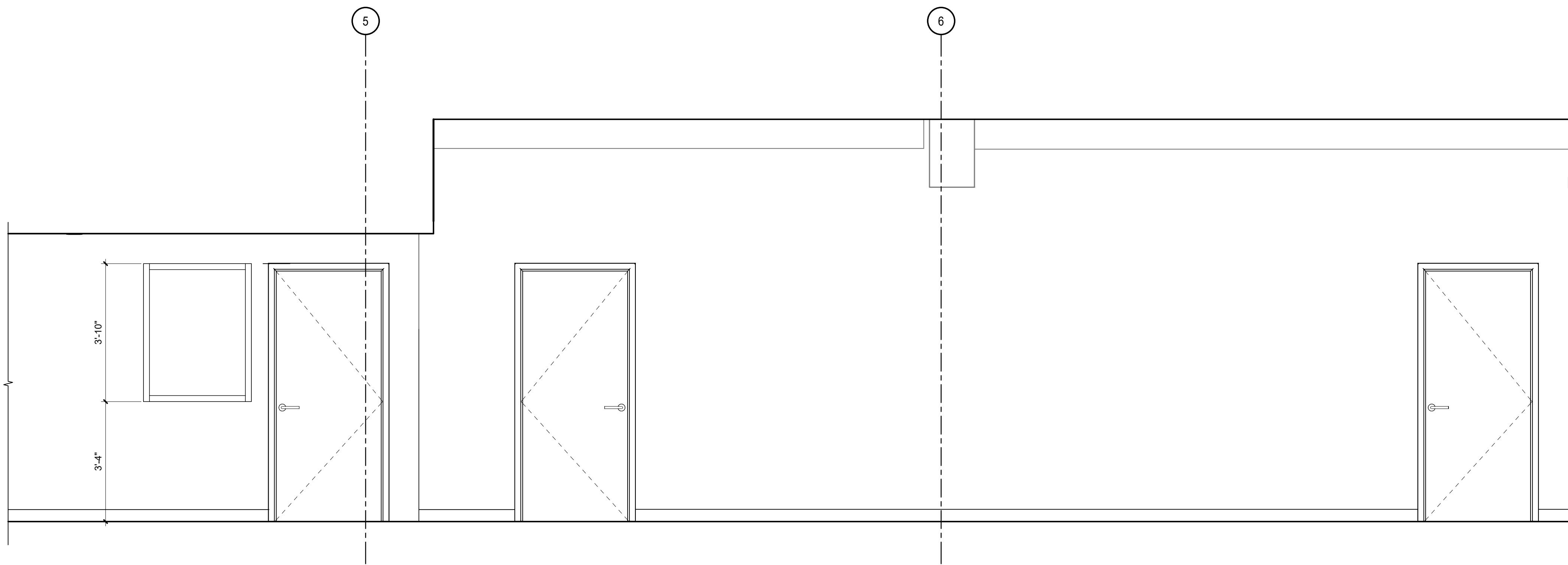
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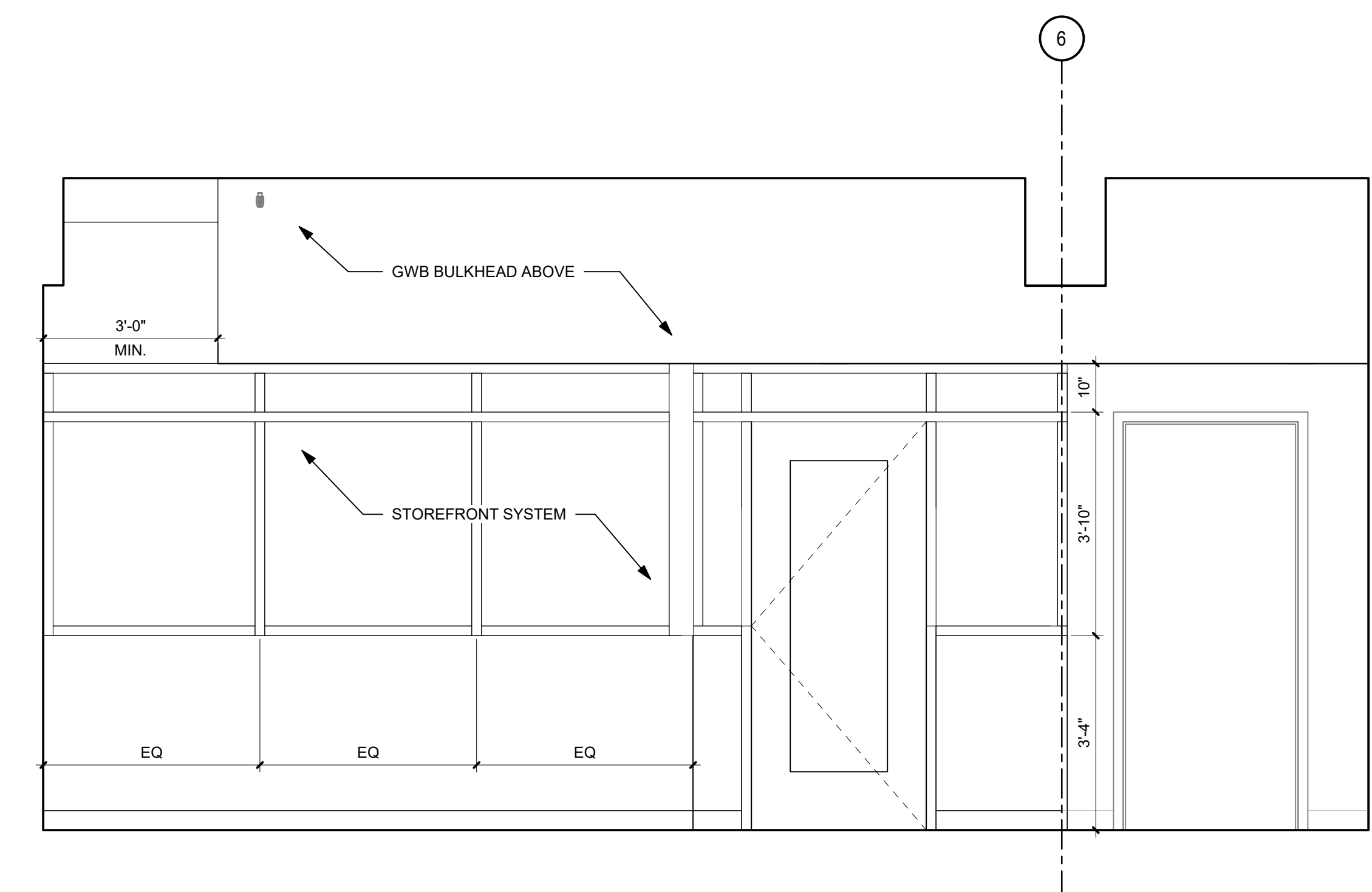


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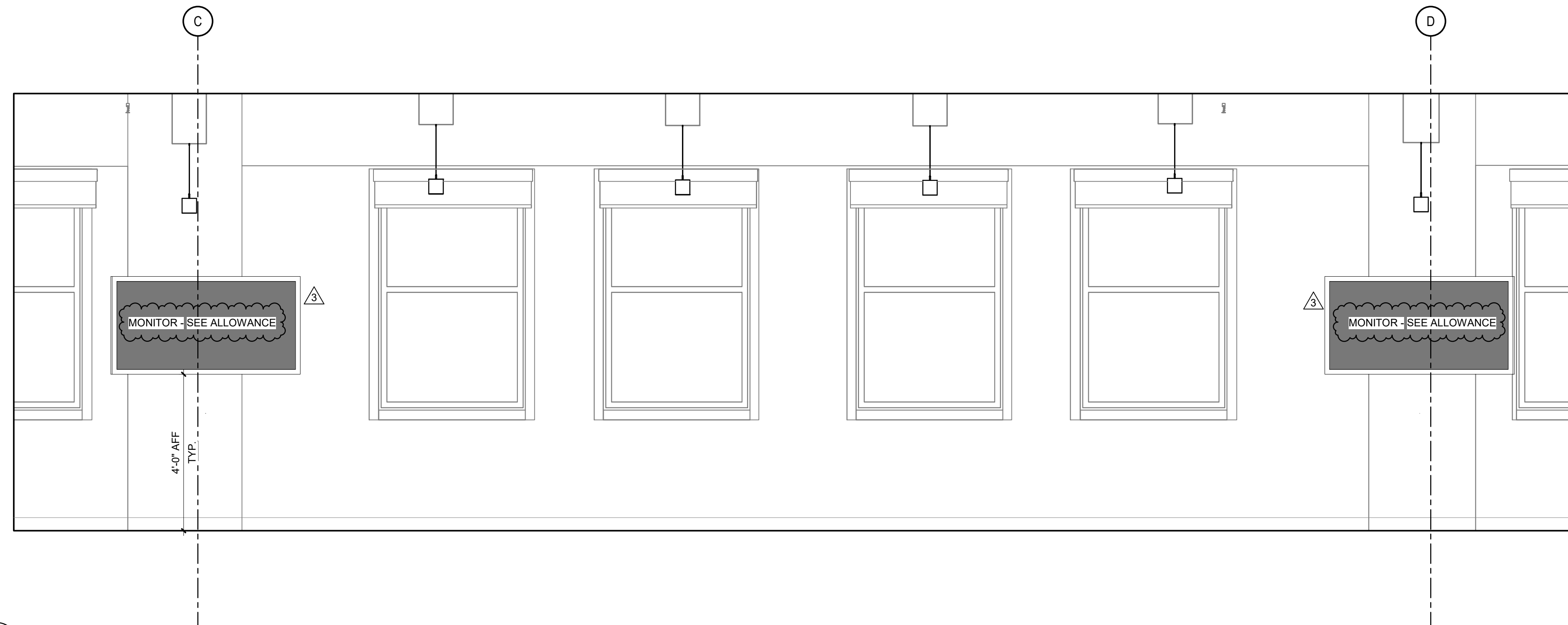




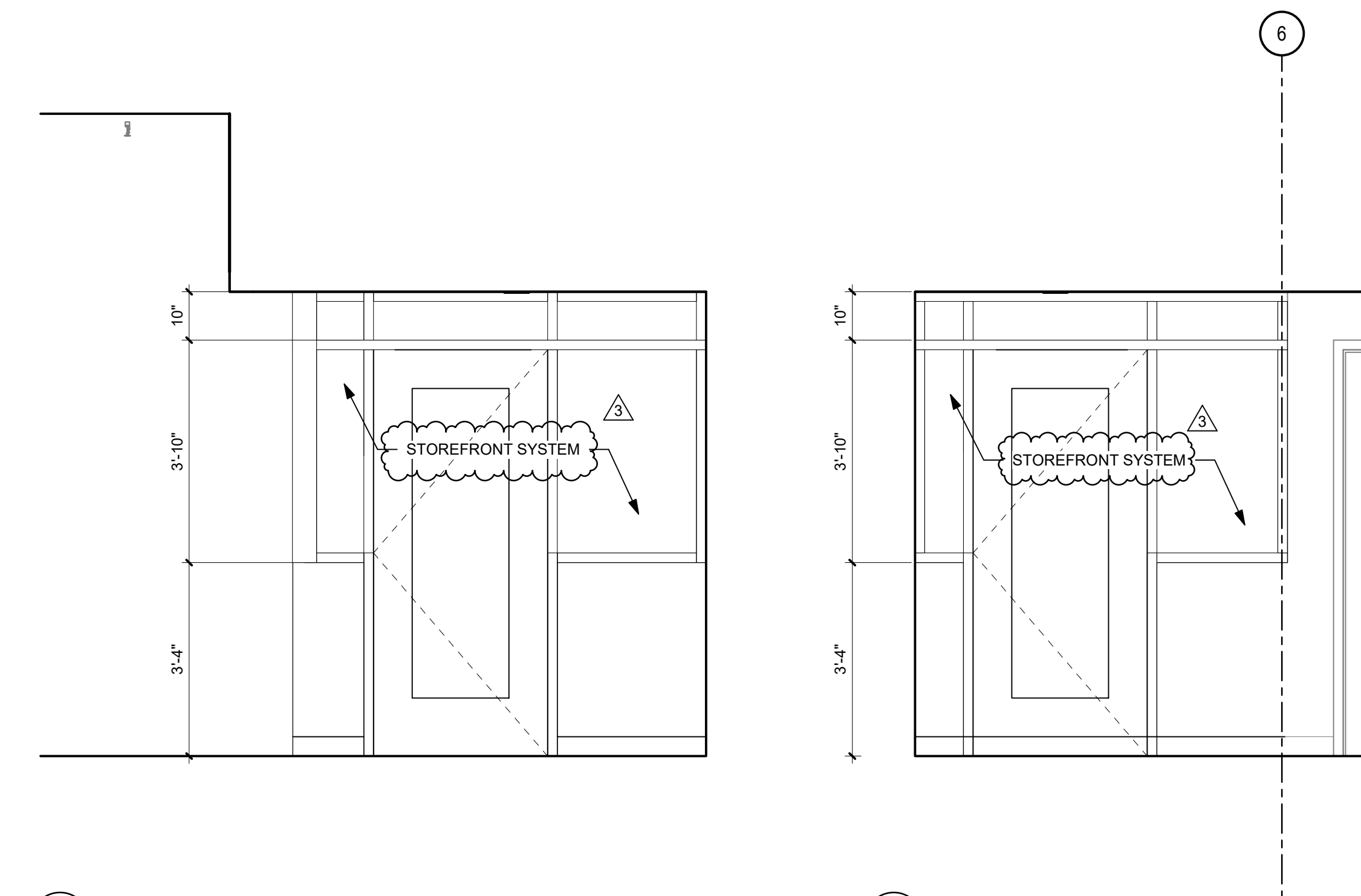
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2 DEPUTY DIRECTOR 08-024  
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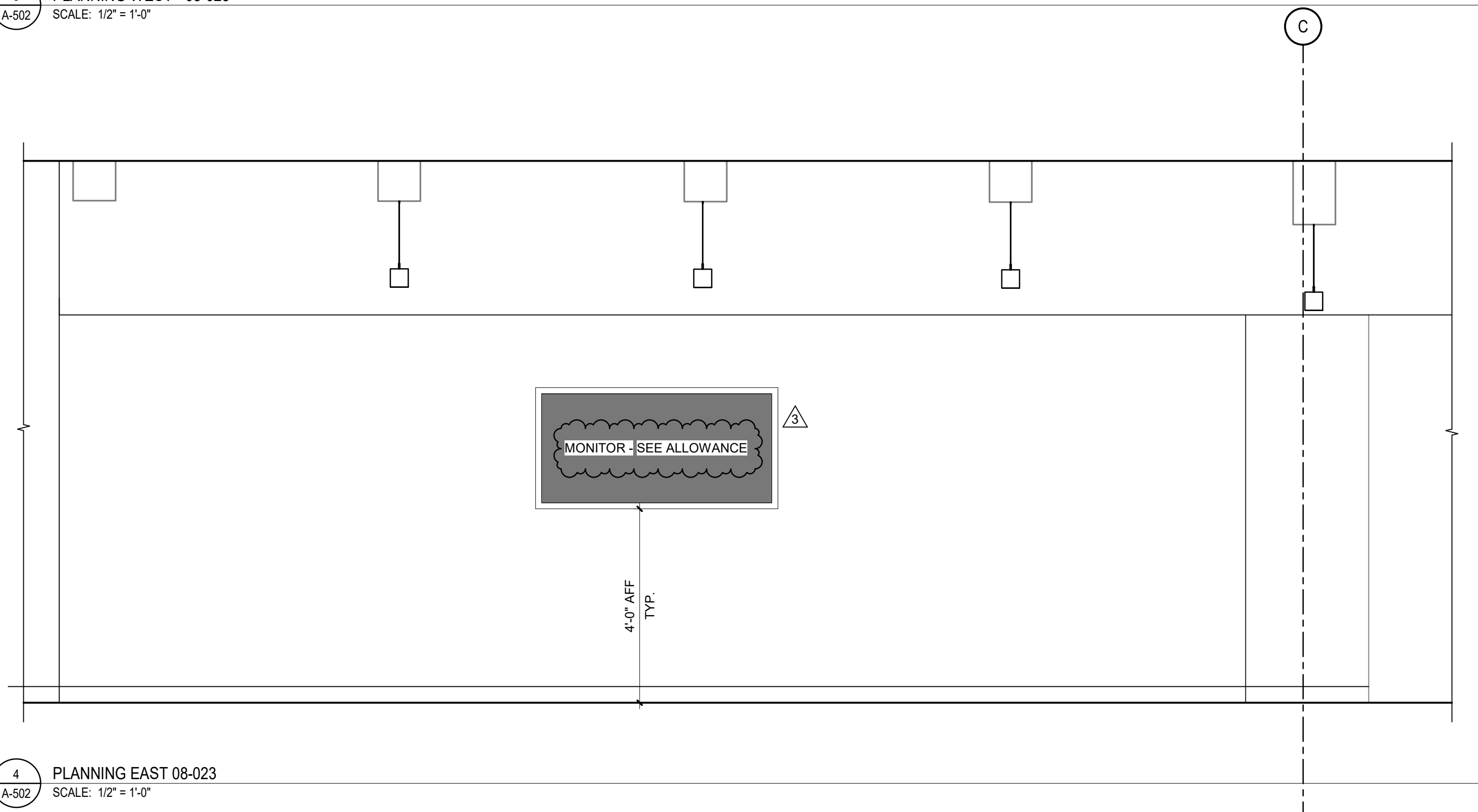


3 PLANNING WEST - 08-023  
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5 DEPUTY DIRECTOR 08-024  
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6 PHONE ROOM 08-025  
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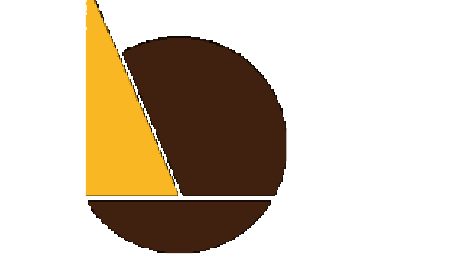
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**INTERIOR  
ELEVATIONS**

SHEET NO:  
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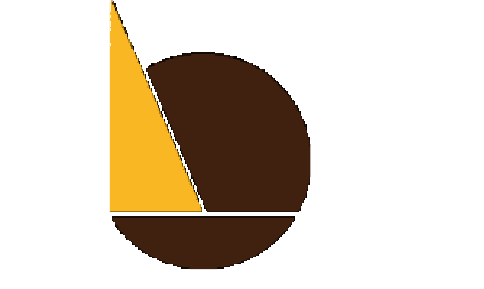




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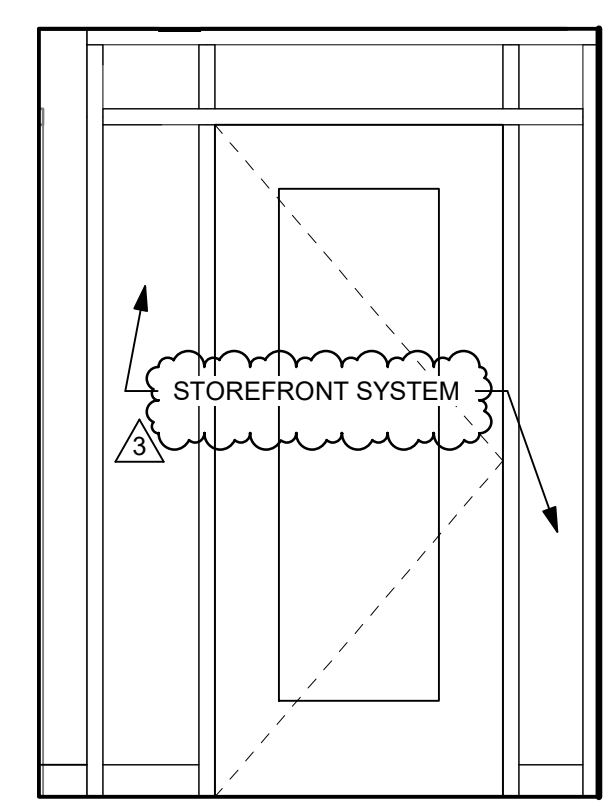
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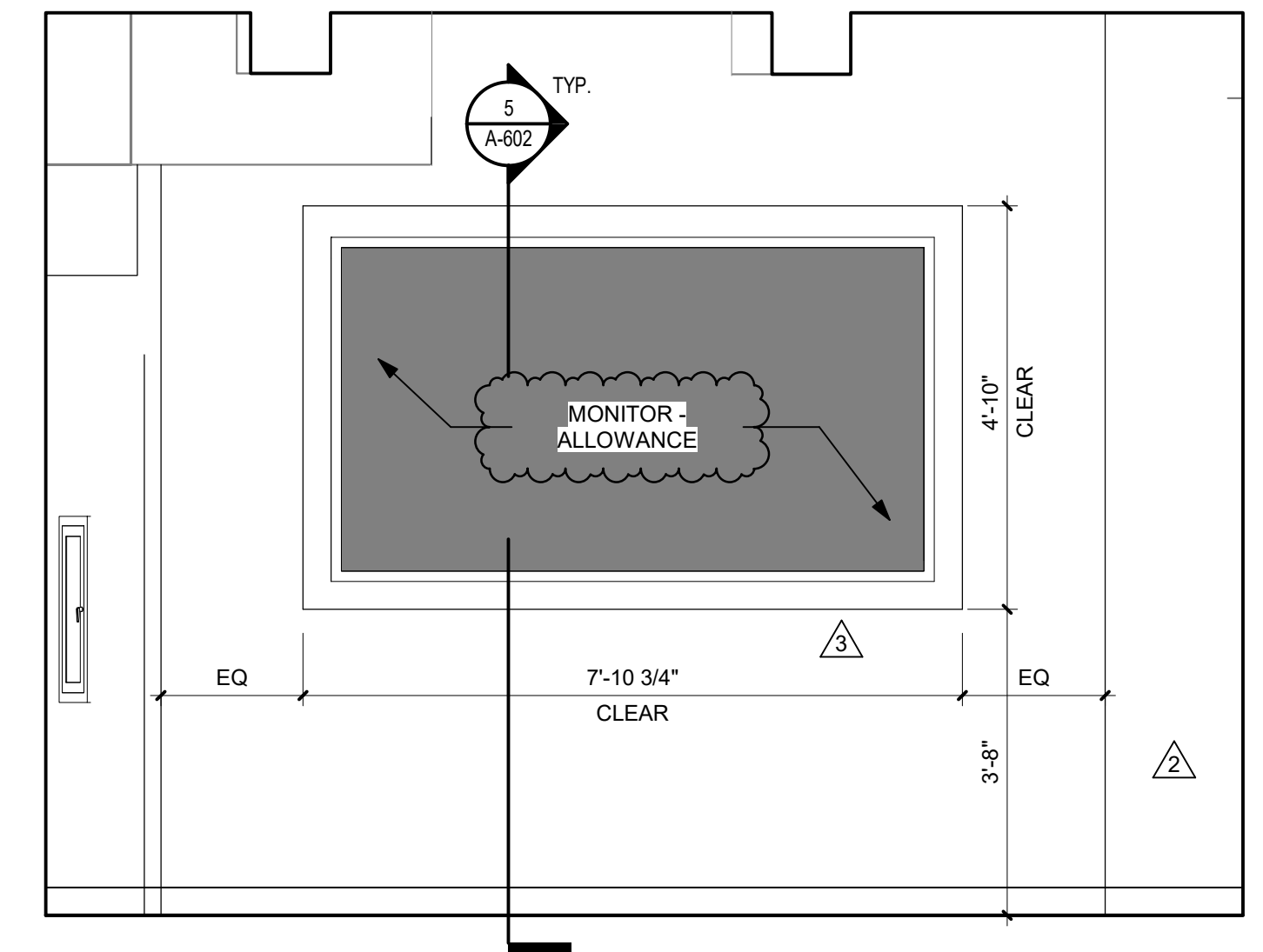
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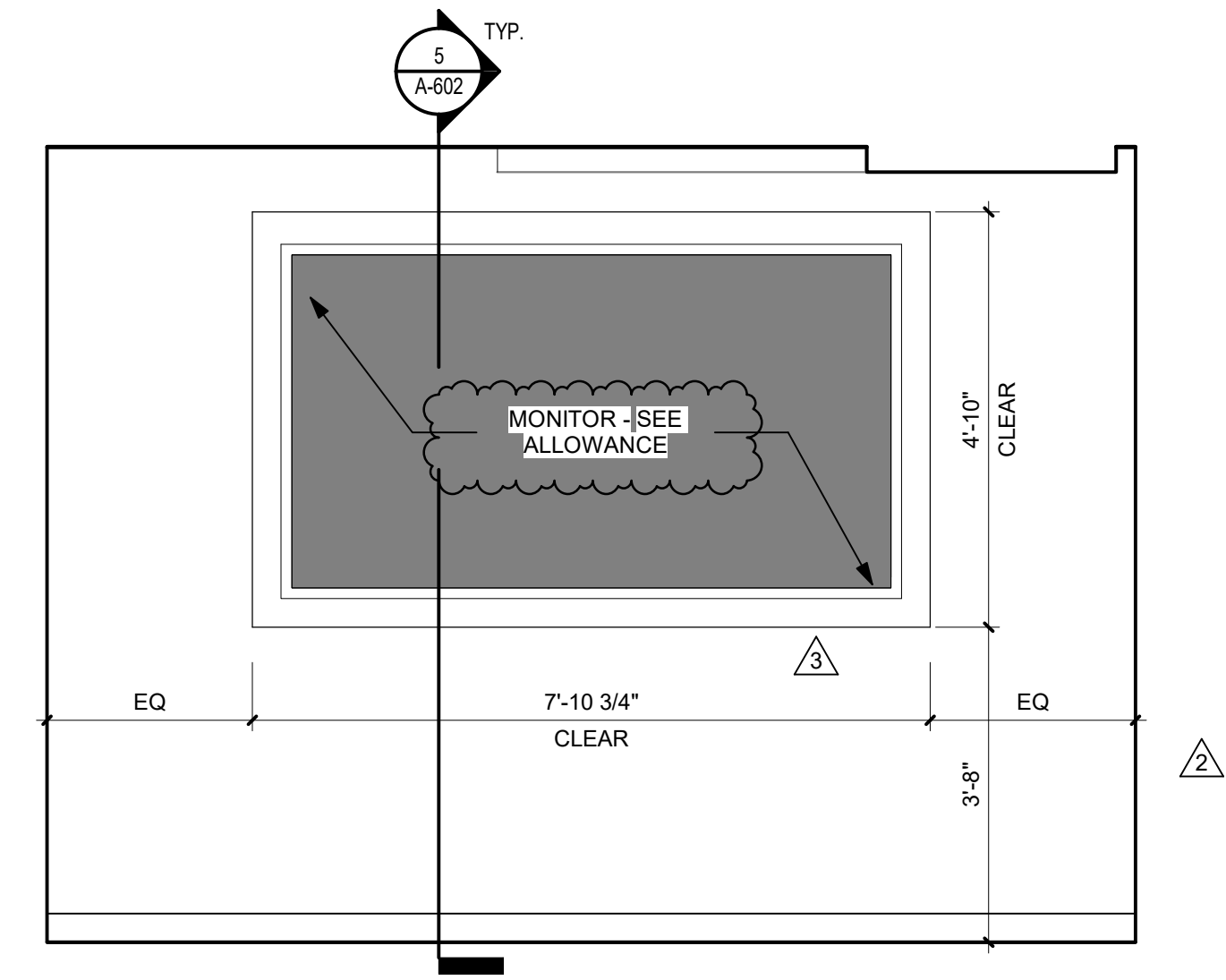
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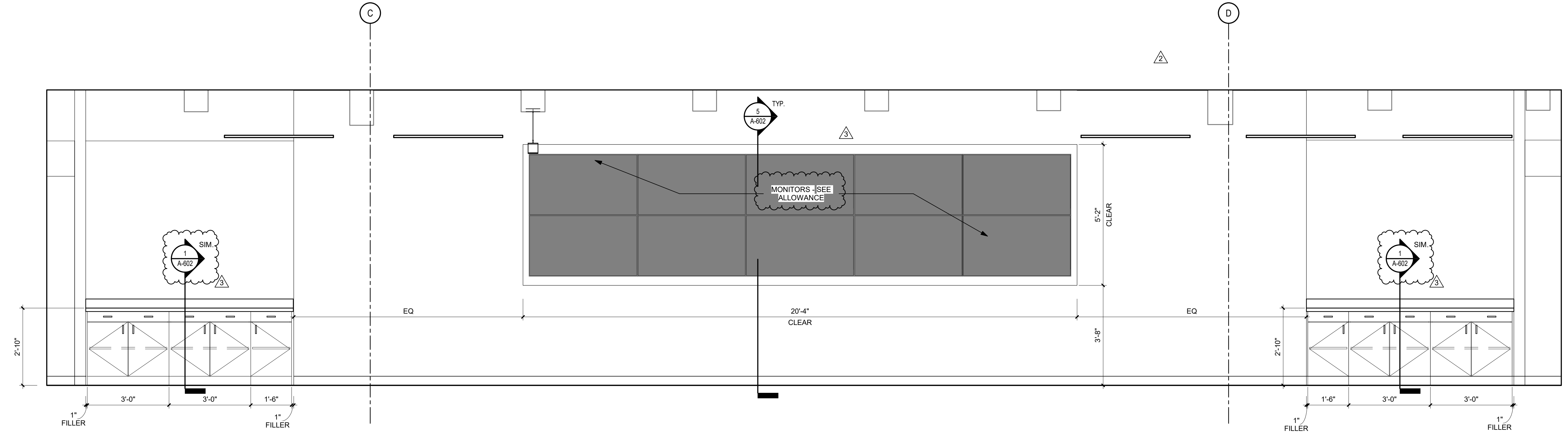
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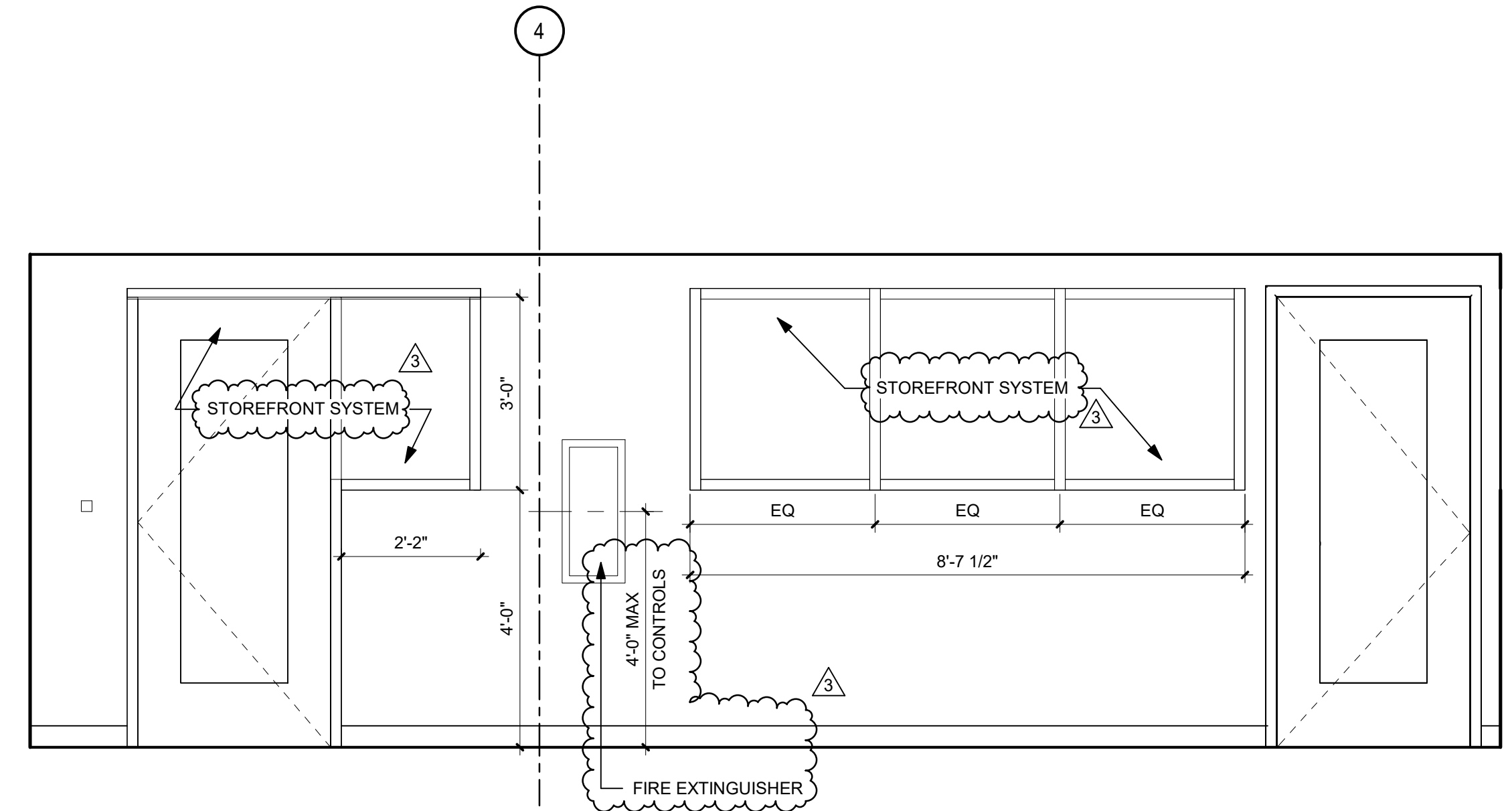
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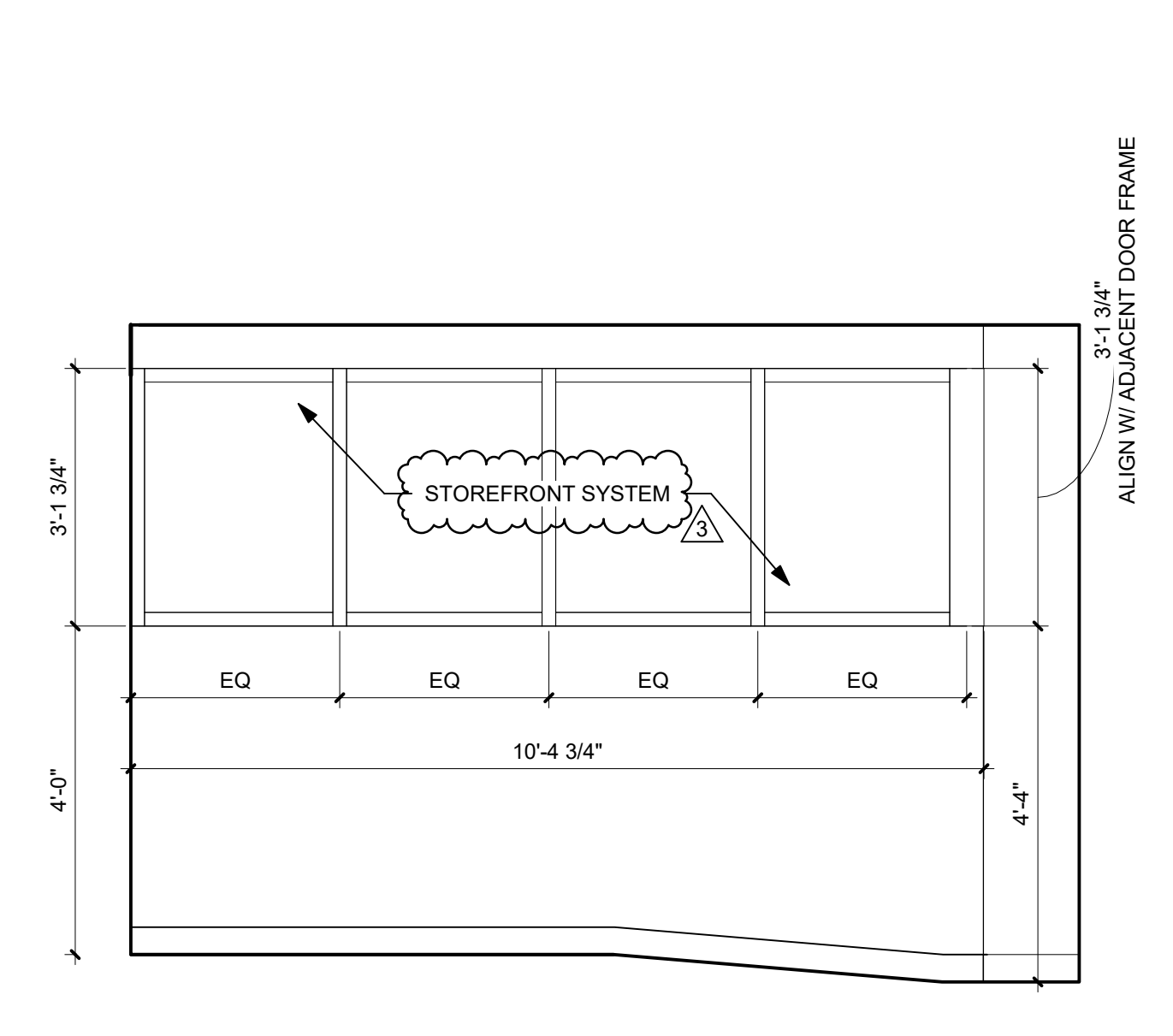
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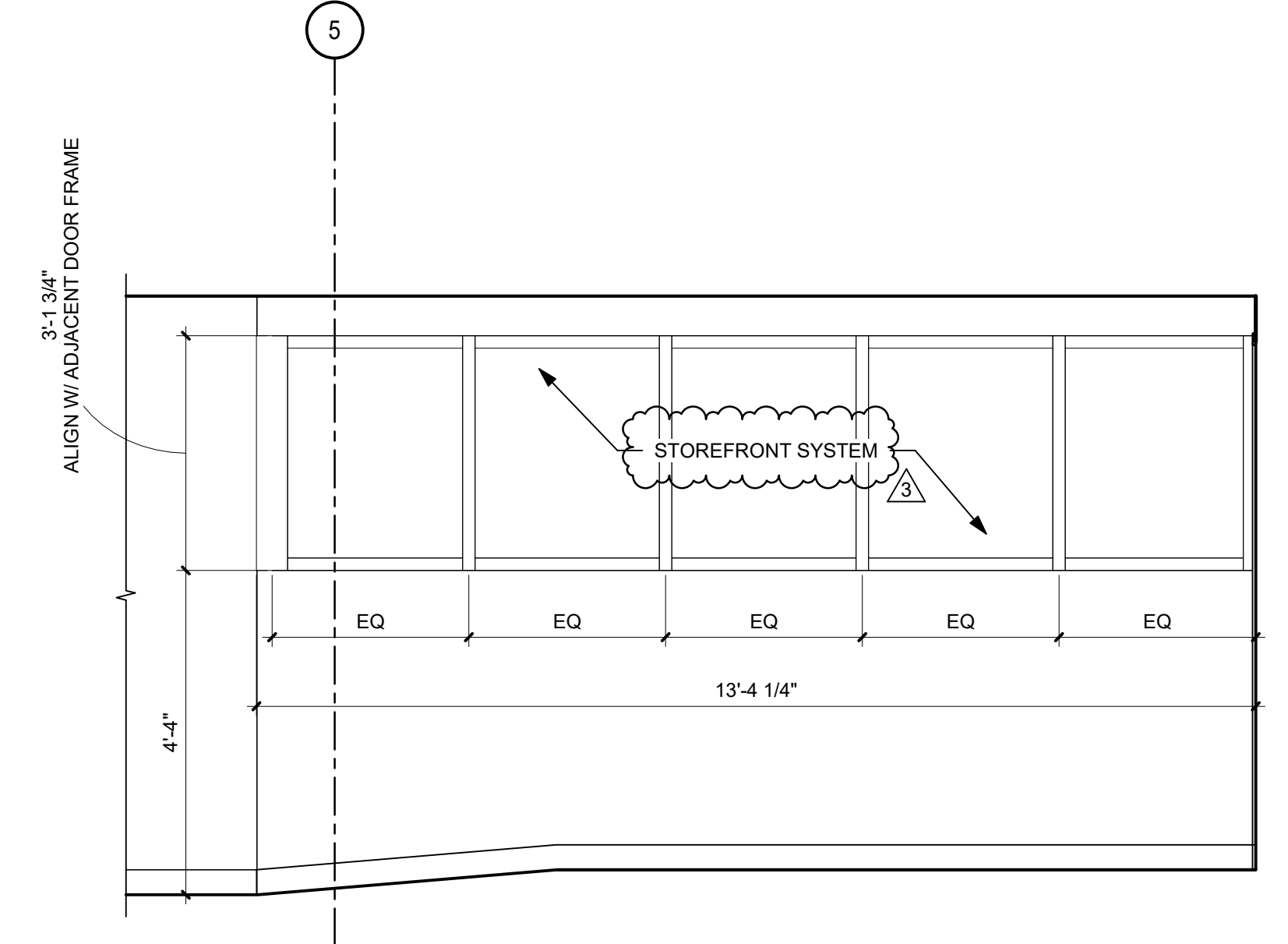
3 VIDEO WALL EOC WEST 09-002  
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5 PANTRY 09-012 & LOGISTICS CENTER 09-013  
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6 LOGISTICS CENTER 09-013  
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7 LOGISTICS CENTER 09-013  
SCALE: 1/2" = 1'-0"

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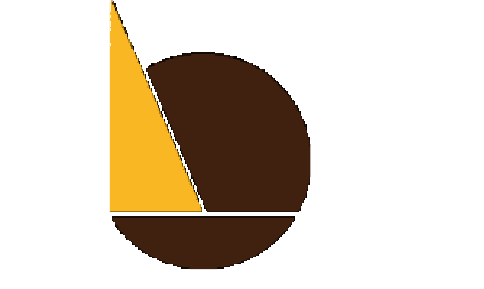




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 PHILADELPHIA PUBLIC SERVICES BUILDING  
 400 NORTH BROAD STREET, PHILADELPHIA, PA 19130  
 FLOORS 8, 9 AND 10**

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- CLIENT REVIEW
- BID SET
- CODE REVIEW SET
- ISSUED FOR CONSTRUCTION

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 FOR BIDS  
 09/18/2020  
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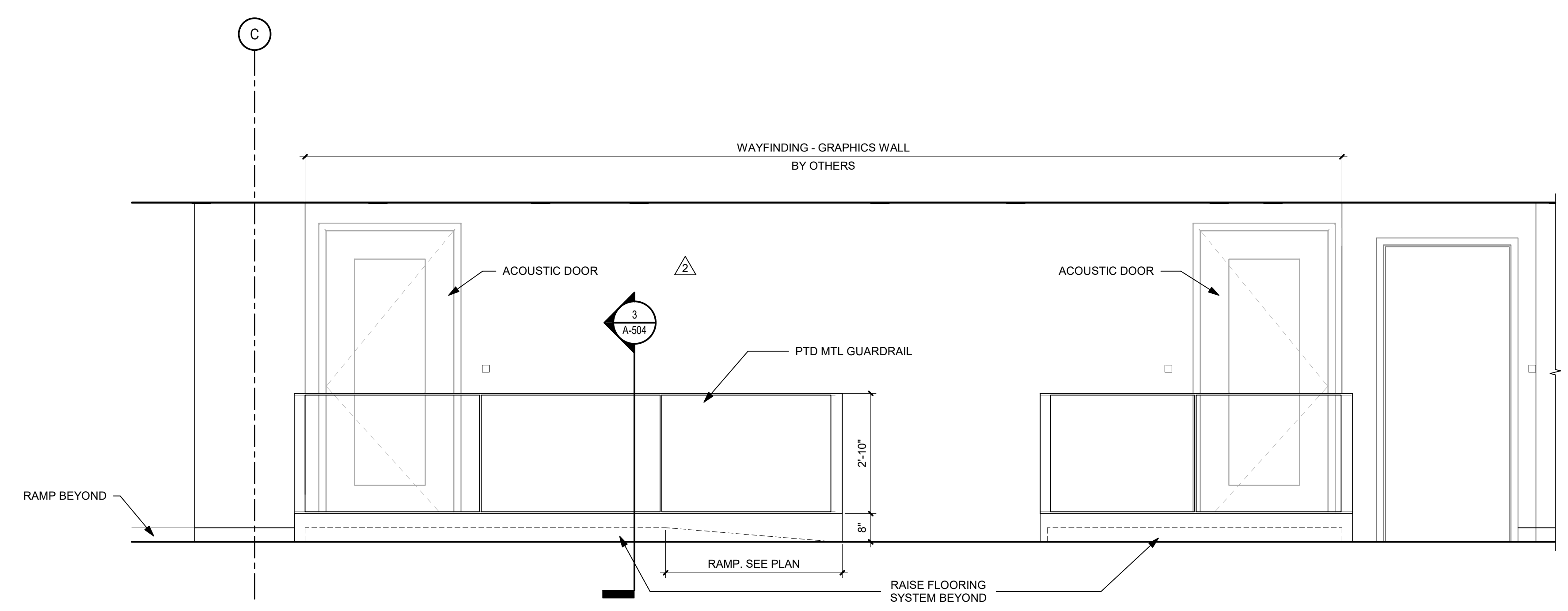
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 2 10/15/2020 ADDENDUM NO. 1  
 3 11/02/2020 ADDENDUM NO. 3

PROJECT NUMBER: 304103-120  
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 DATE: 10/06/2020  
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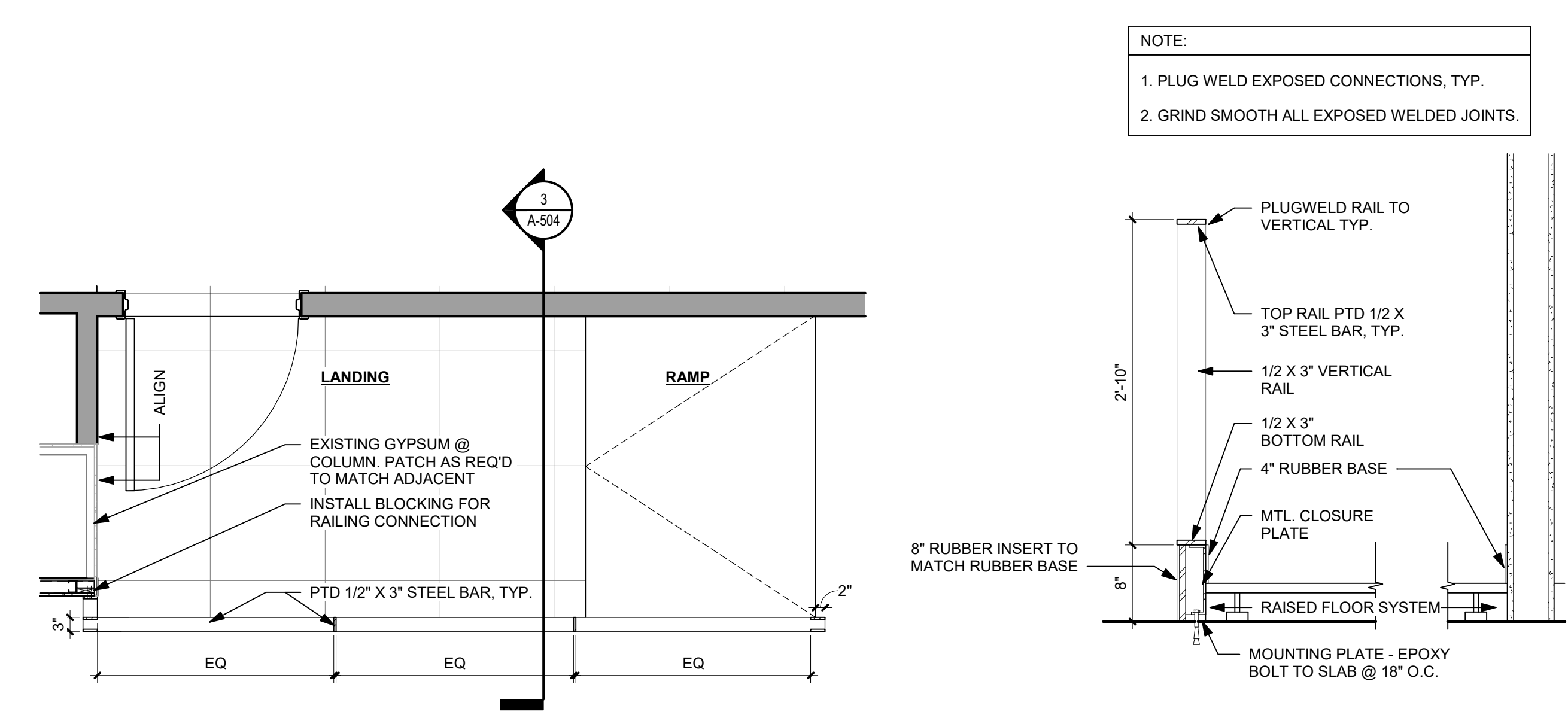
DRAWING TITLE:  
**INTERIOR  
 ELEVATIONS**

SHEET NO.:  
**A-504**

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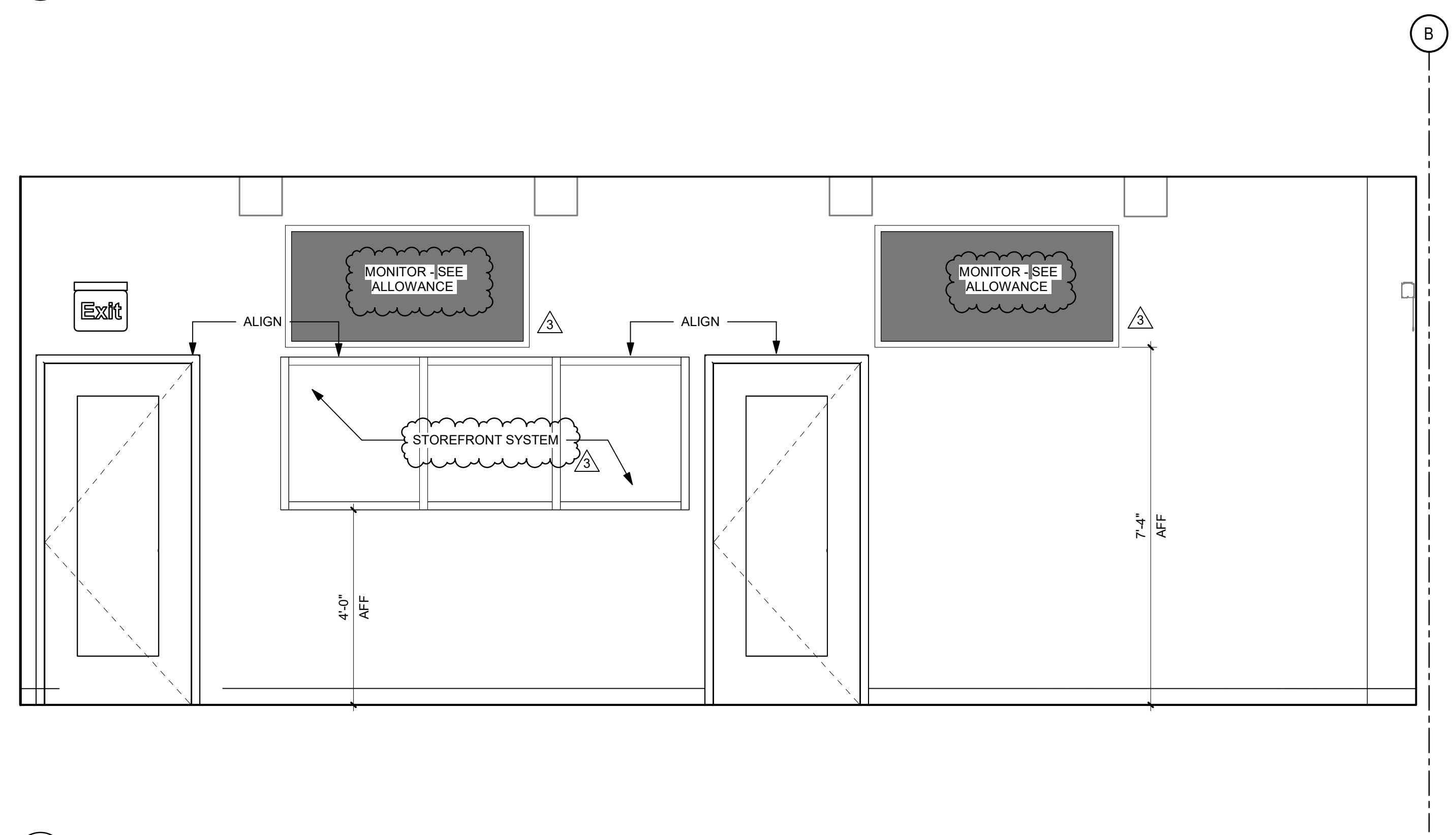


1 CORRIDOR 09-001 @ SITUATION ROOM 09-016  
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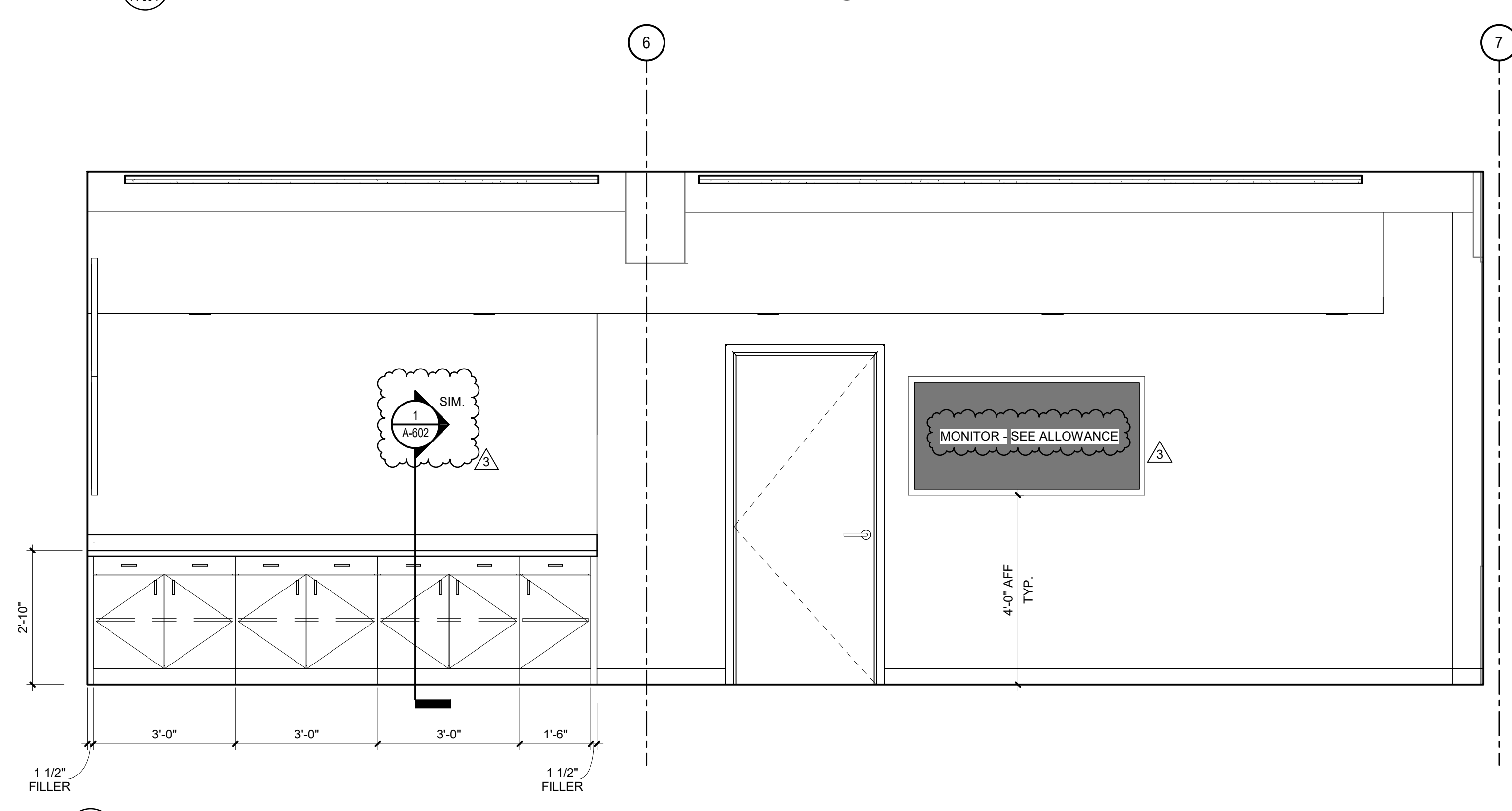


2 ENLARGED PLAN - SITUATION ROOM RAMP & RAIL  
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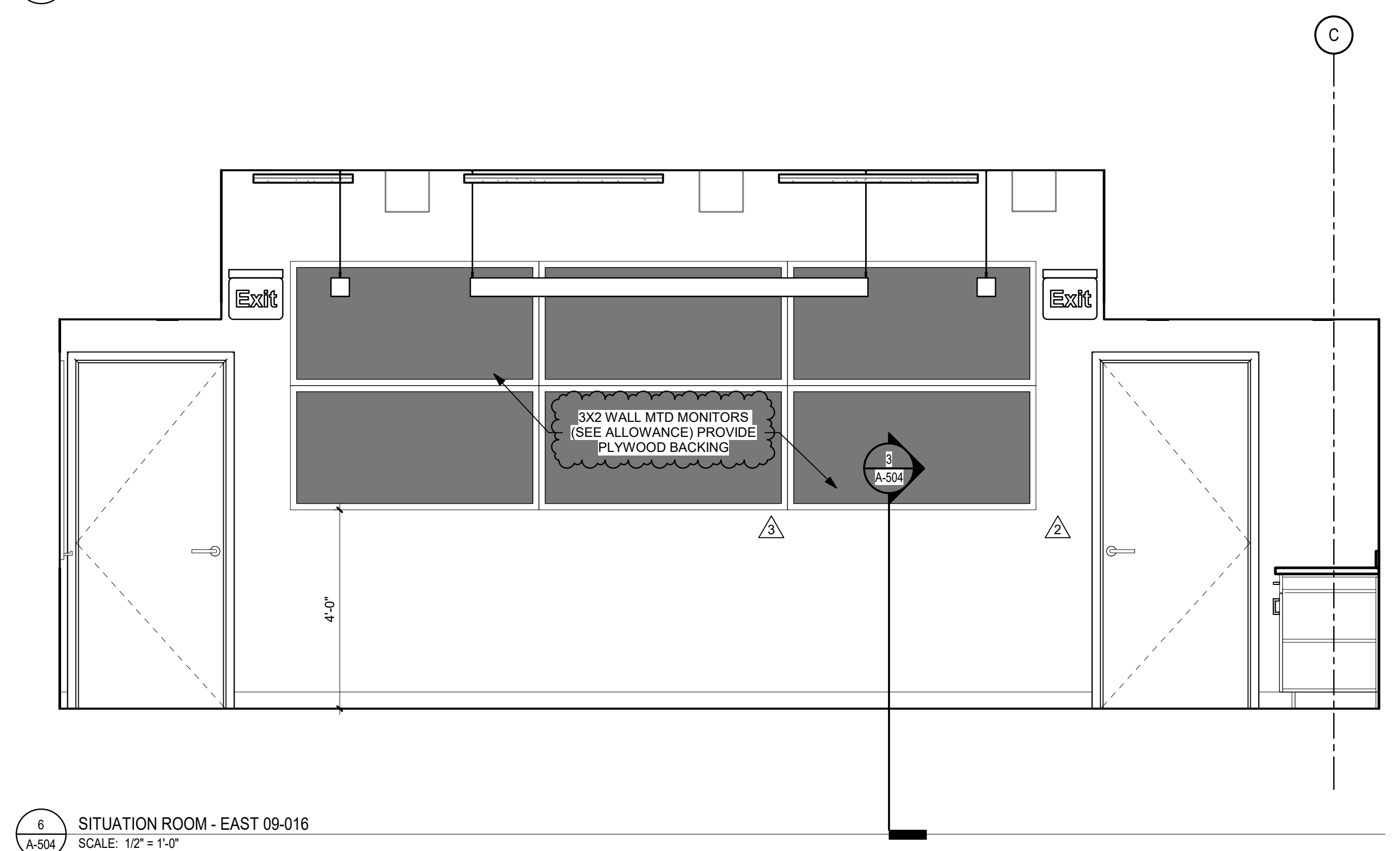
3 ENLARGED DETAIL - CUSTOM RAIL  
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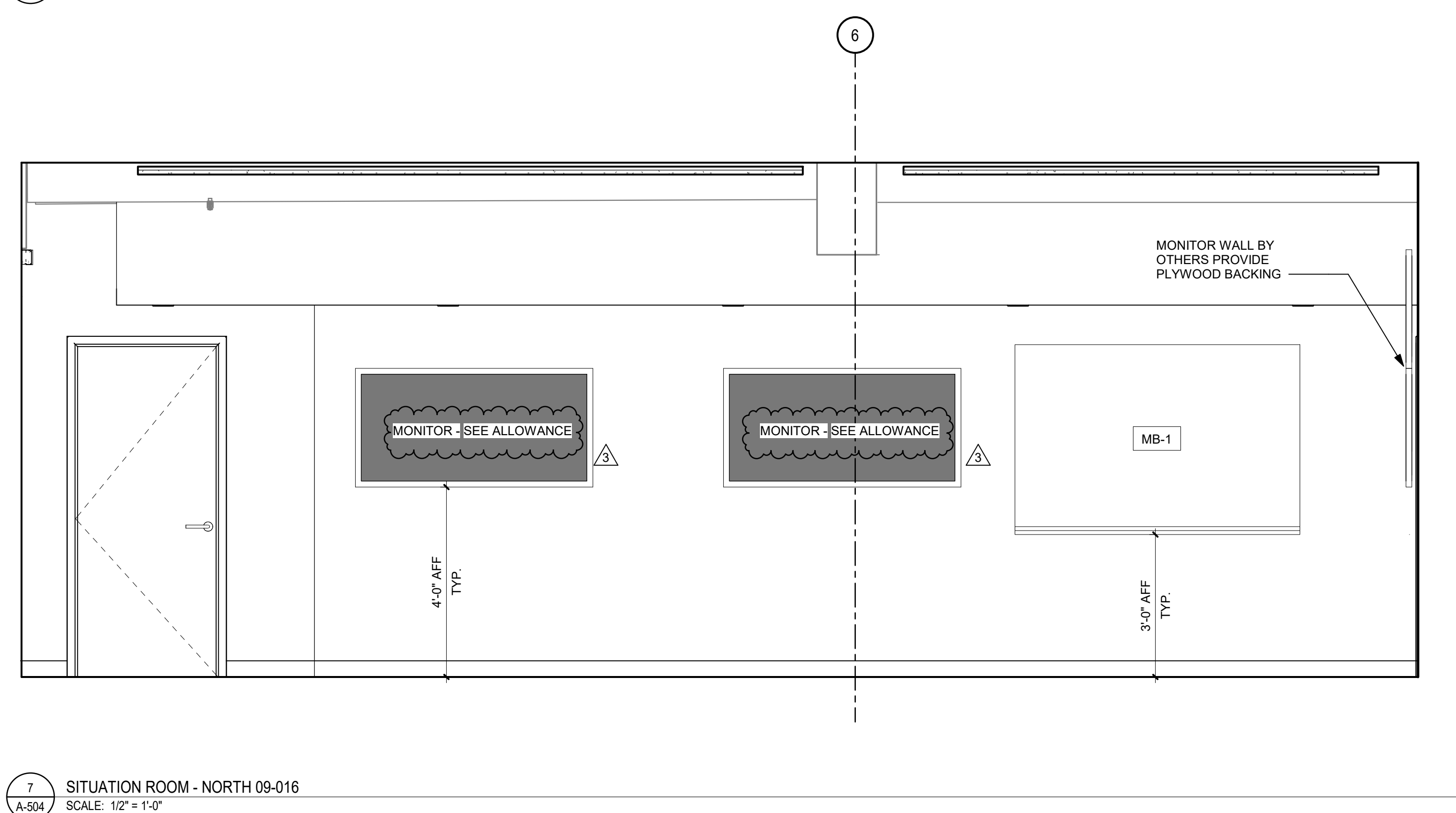
4 JOINT INFORMATION CENTER - EAST 09-015  
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5 SITUATION ROOM - SOUTH 09-016  
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6 SITUATION ROOM - EAST 09-016  
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7 SITUATION ROOM - NORTH 09-016  
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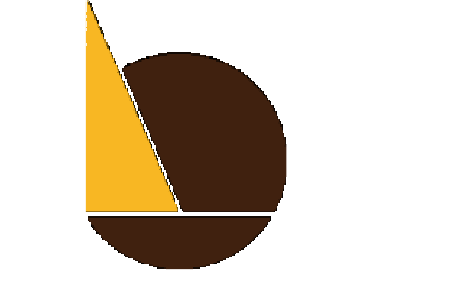




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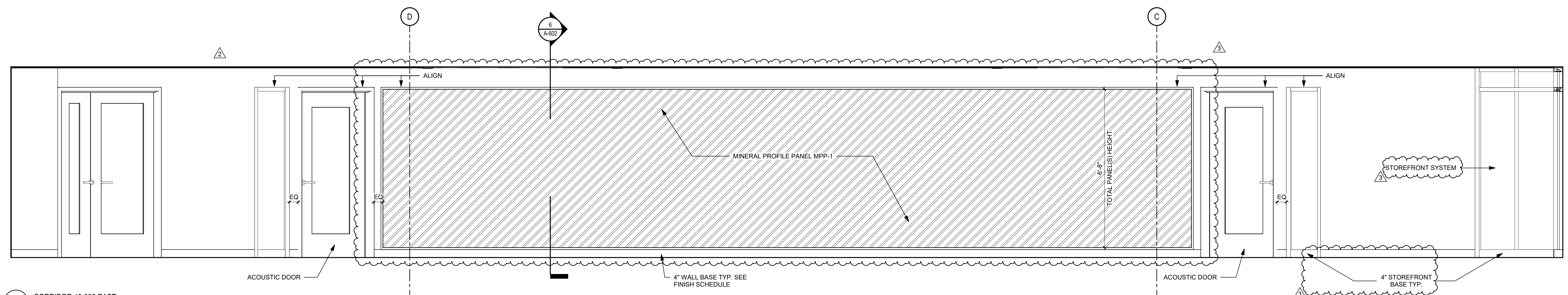
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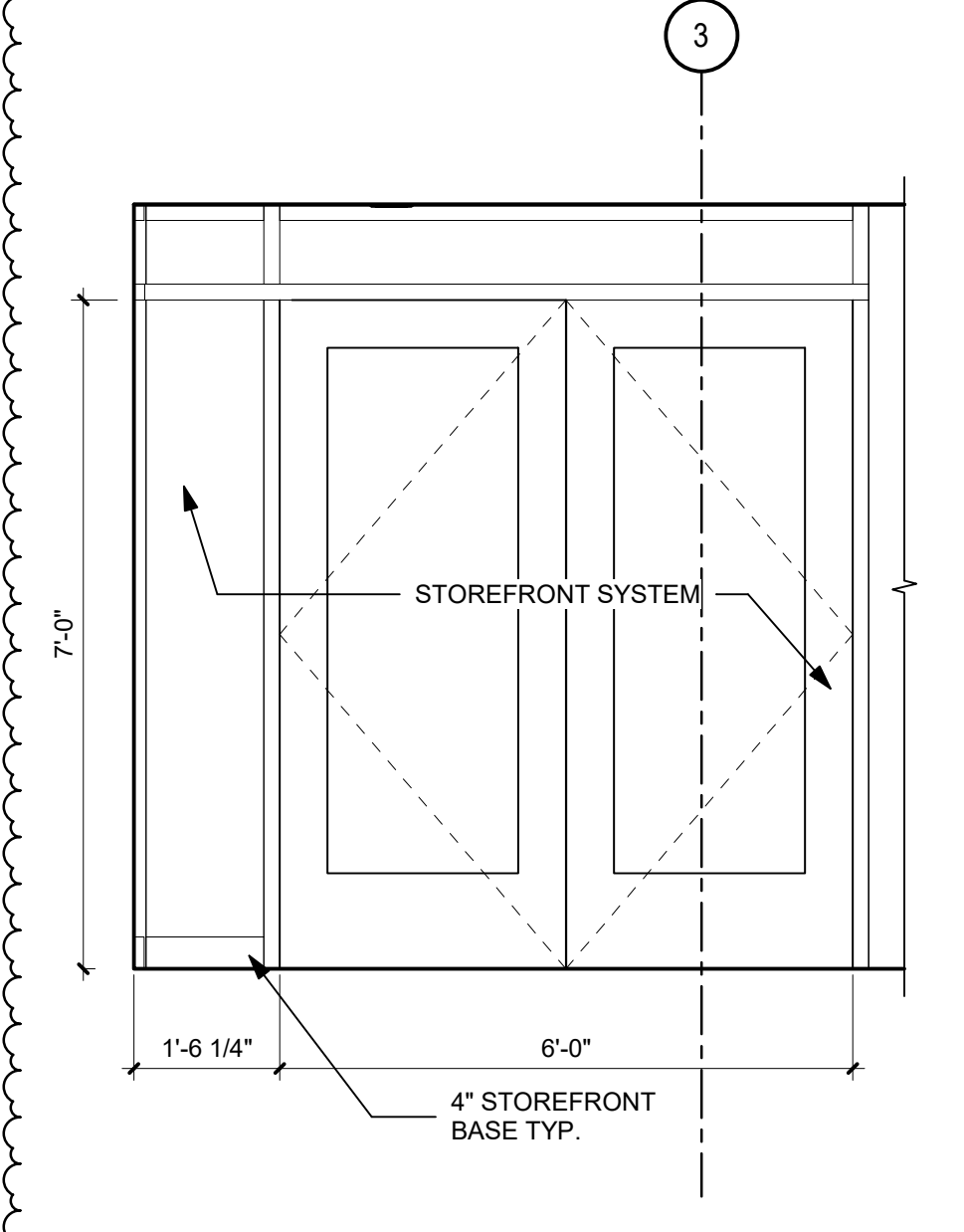
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**INTERIOR ELEVATIONS**

SHEET NO:  
**A-505**

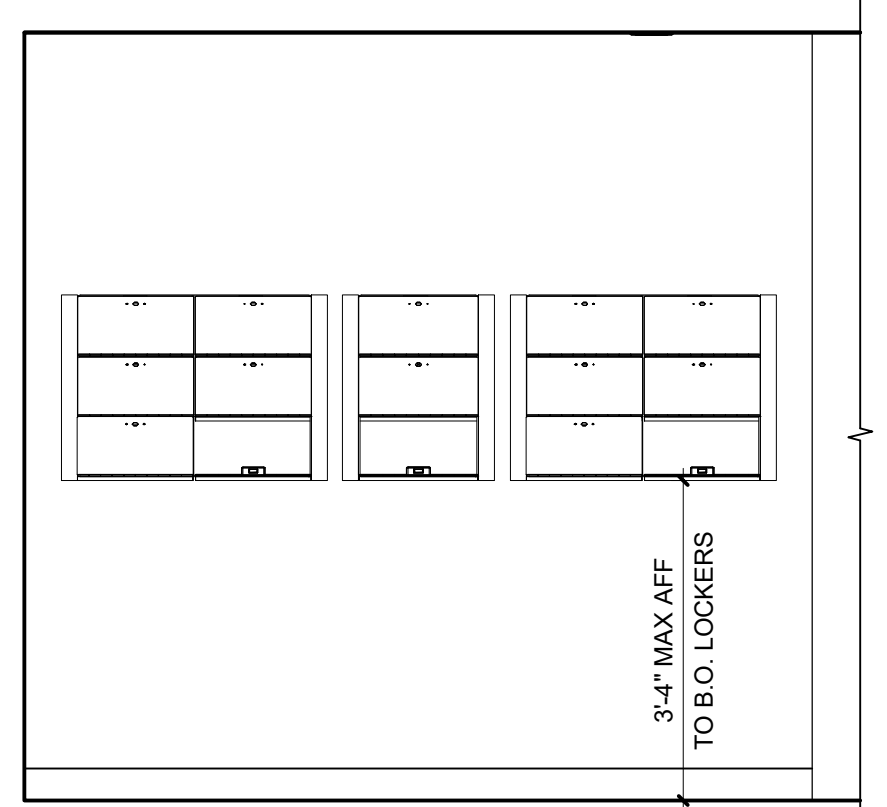
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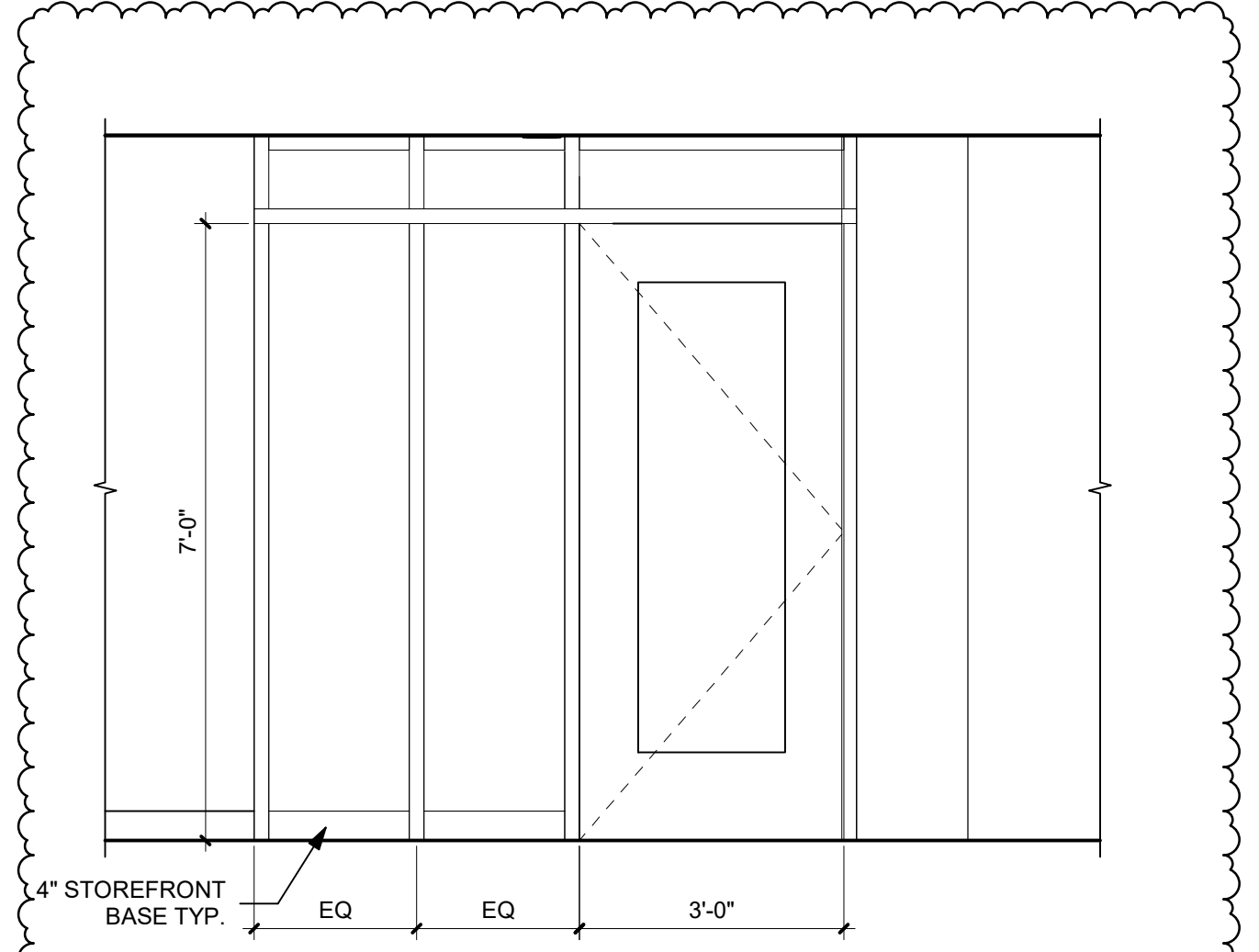
1 CORRIDOR 10-002 EAST  
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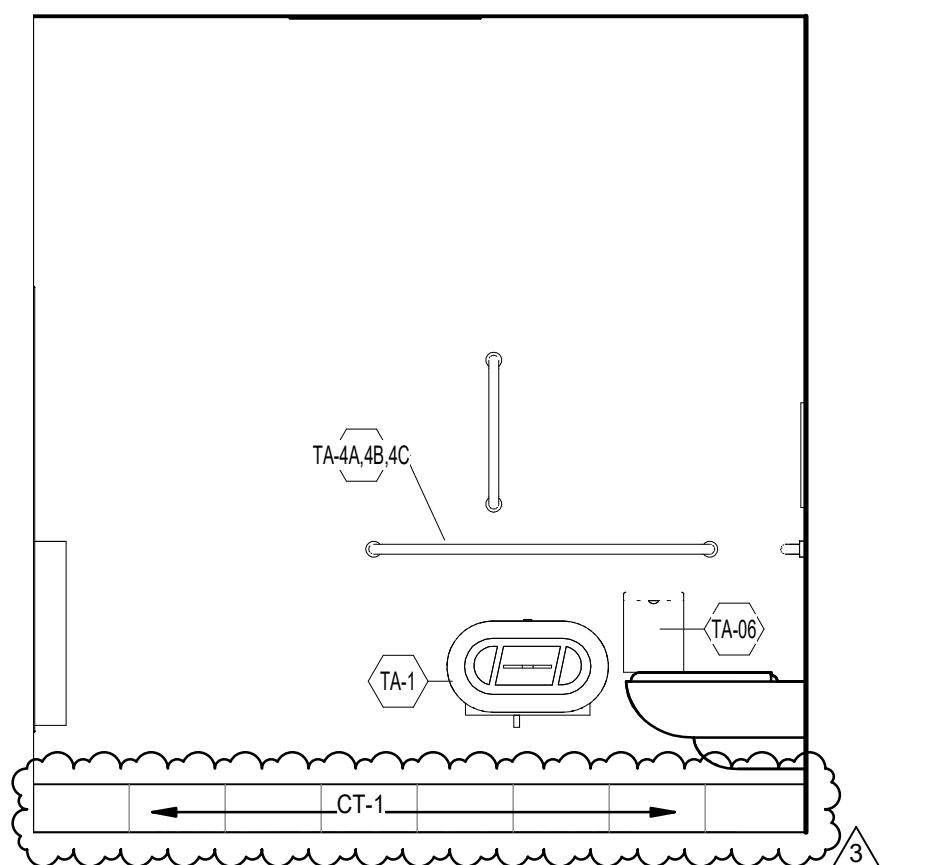
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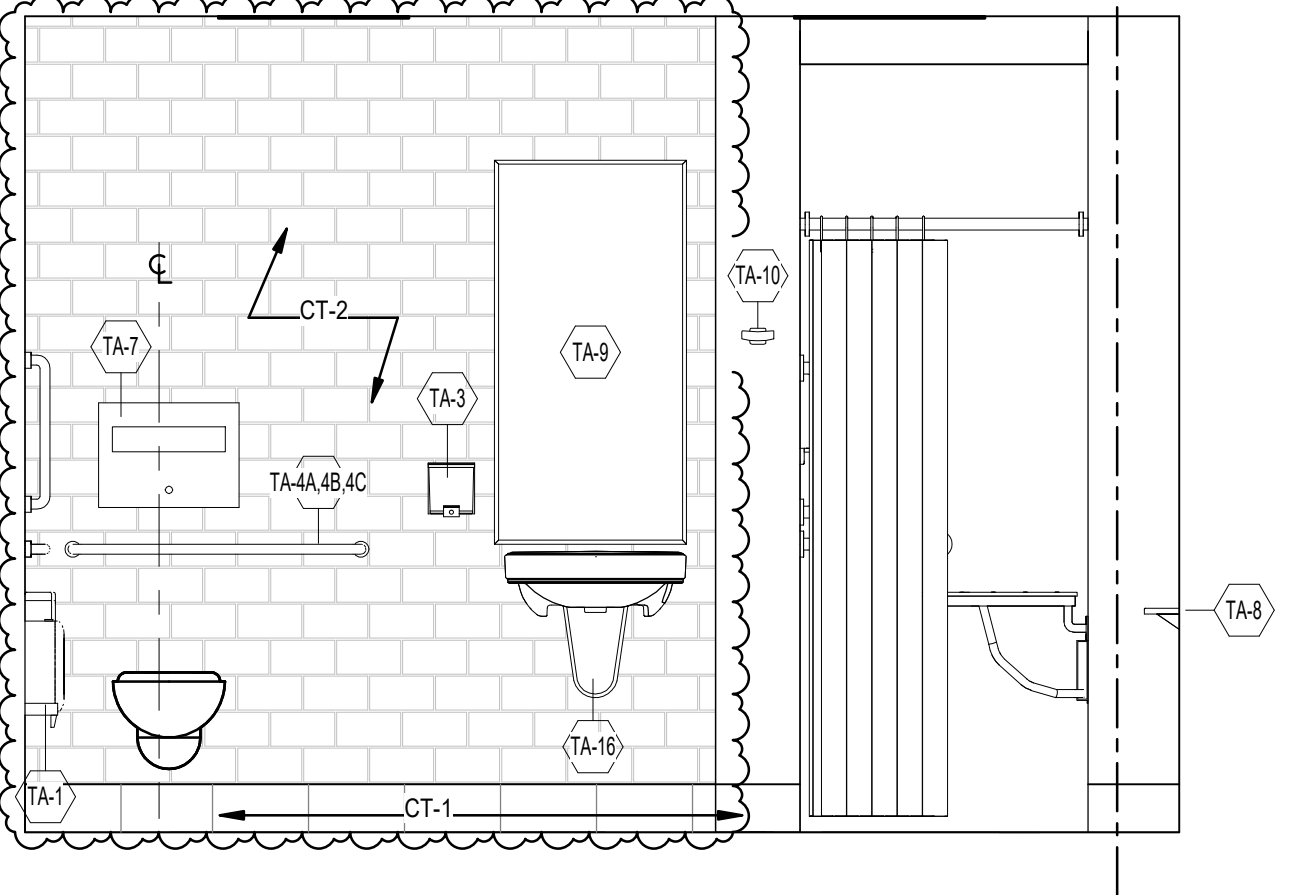
2 CORRIDOR 10-002 WEST - GUN LOCKERS  
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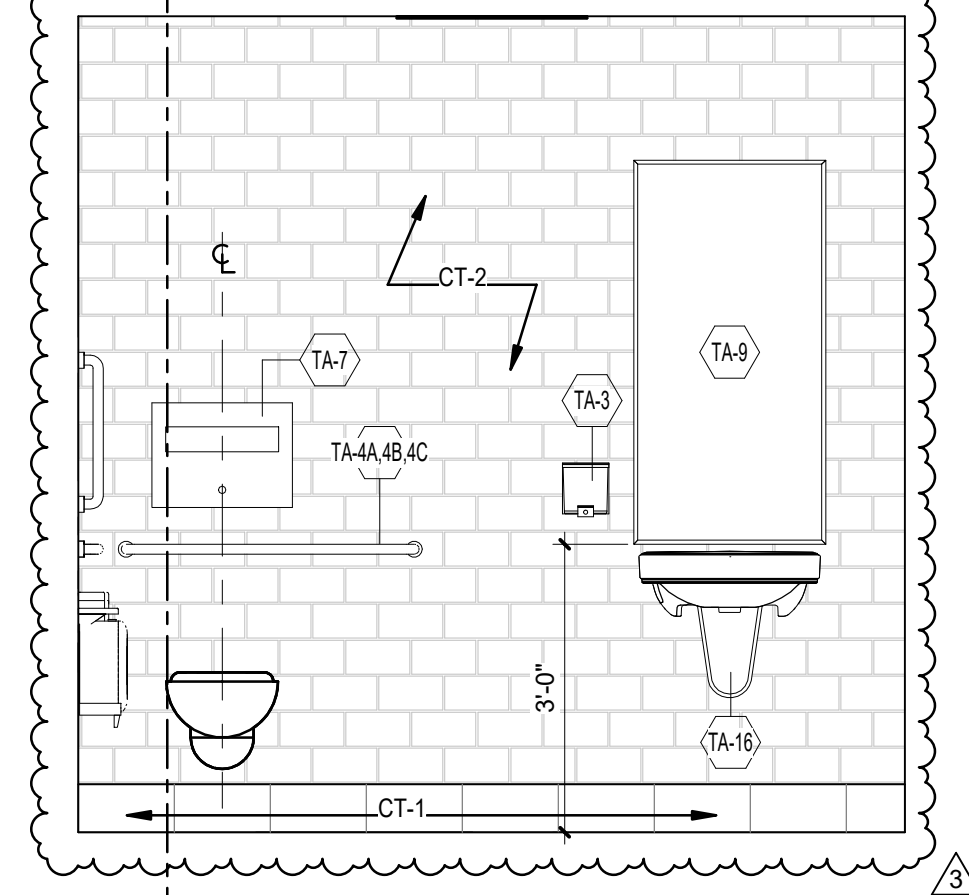
11 INTERIOR ELEVATION - GREEN ROOM 10-023  
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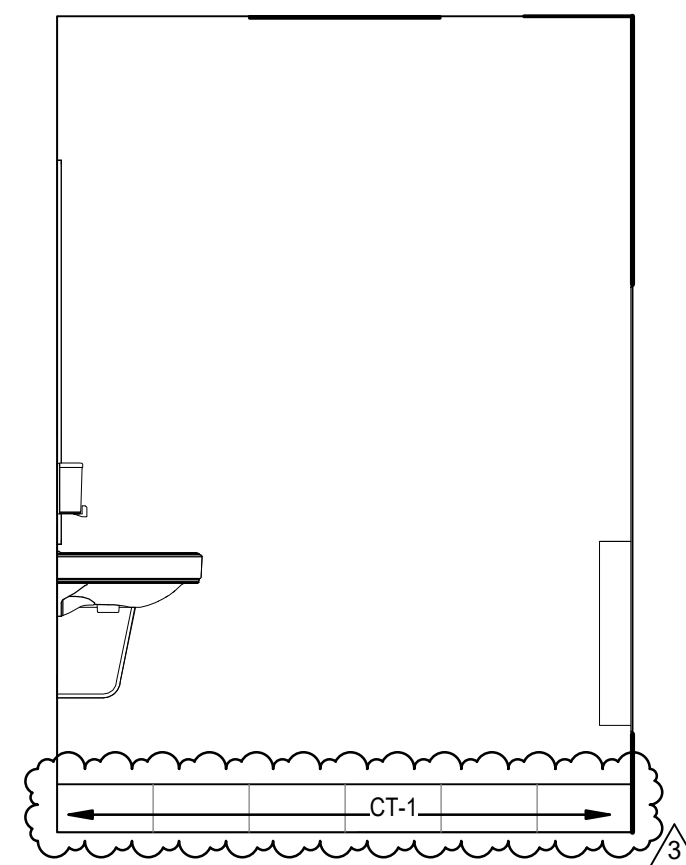
3 TYPICAL SHOWER ROOM - 10-029 & 10-030  
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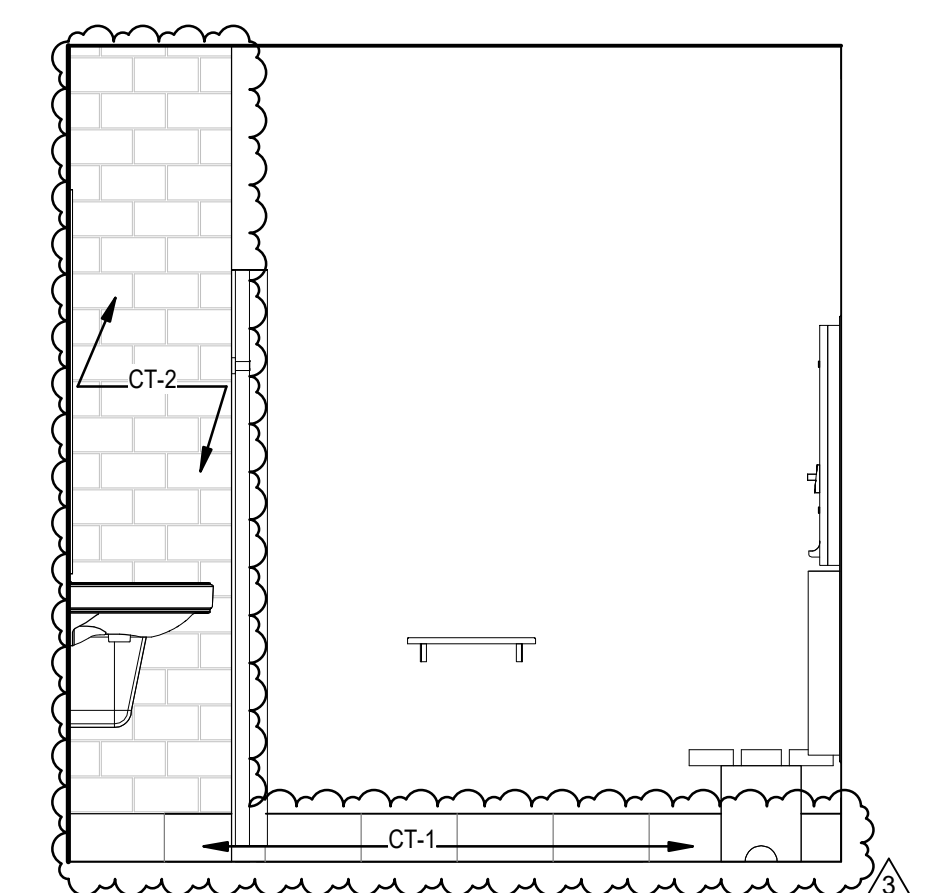
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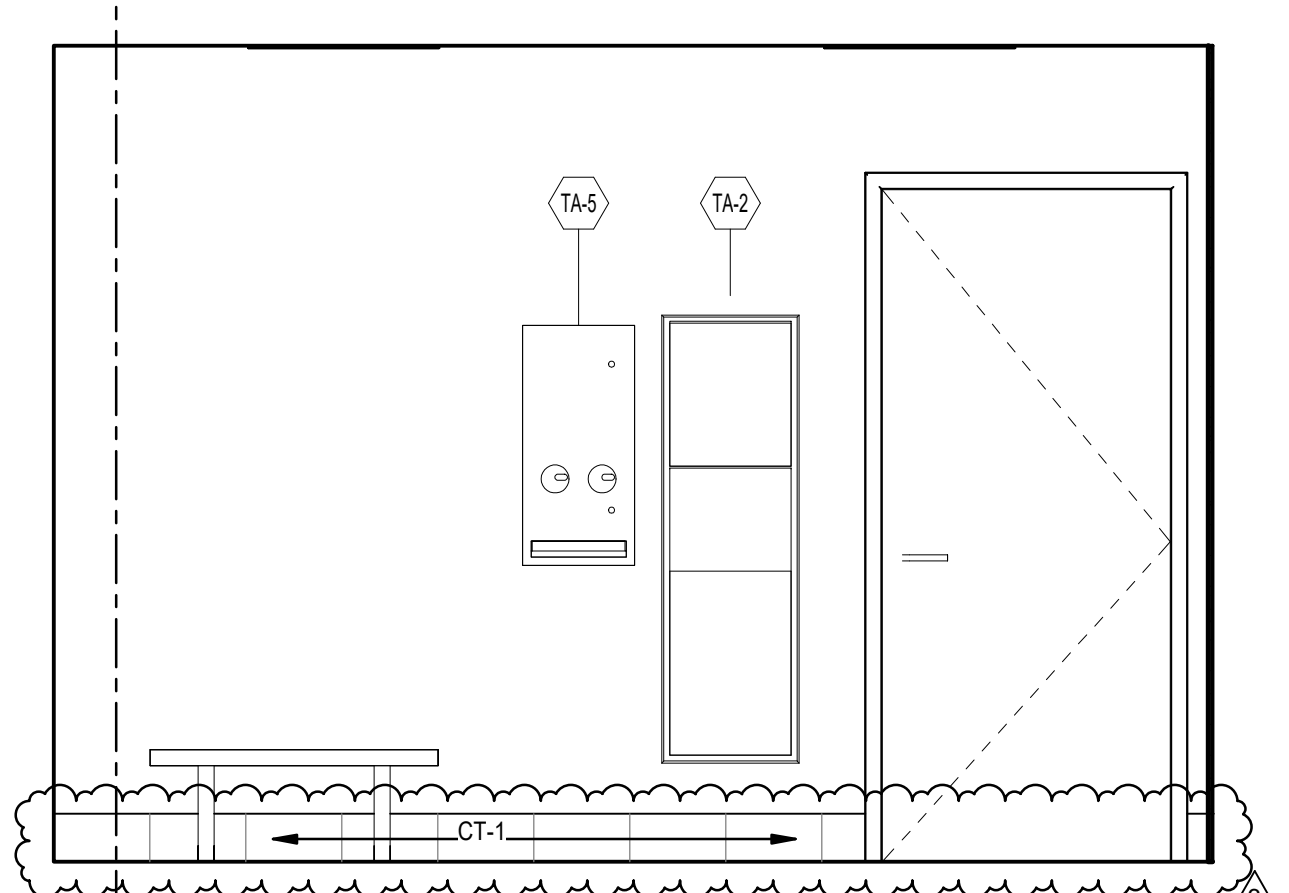
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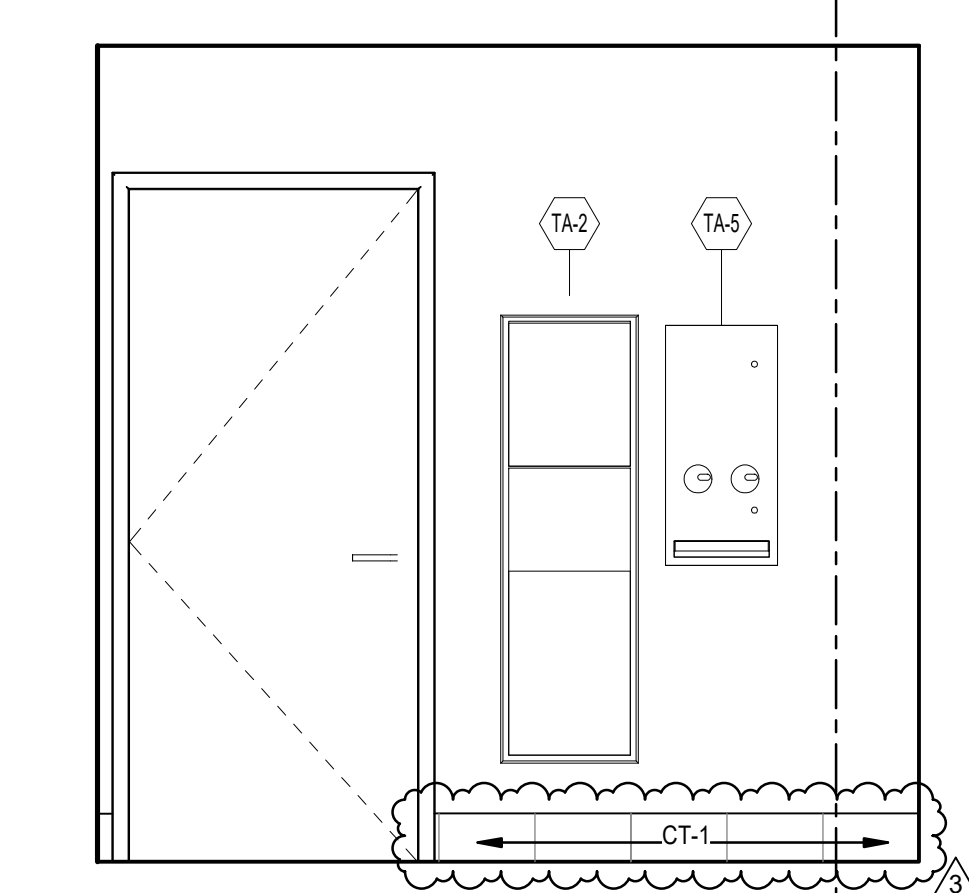
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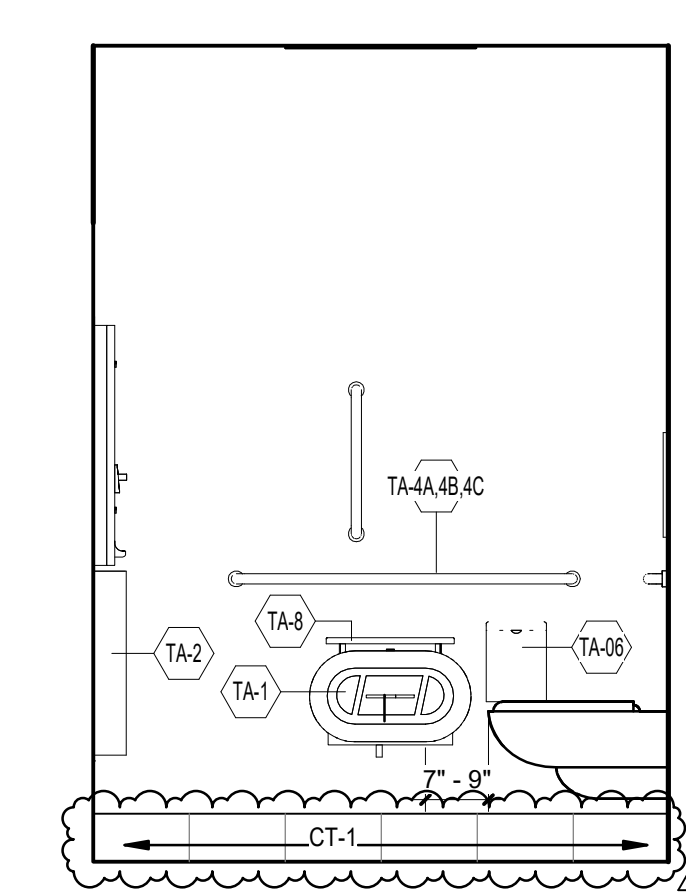
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6 TYPICAL SHOWER ROOM - 10-029 & 10-030  
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9 TYPICAL TOILET ROOM - 10-025 & 10-026  
SCALE: 1/2" = 1'-0"



10 TYPICAL TOILET ROOM - 10-025 & 10-026  
SCALE: 1/2" = 1'-0"

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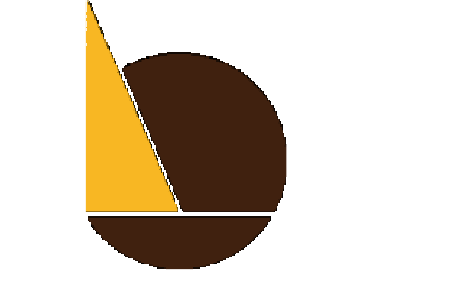




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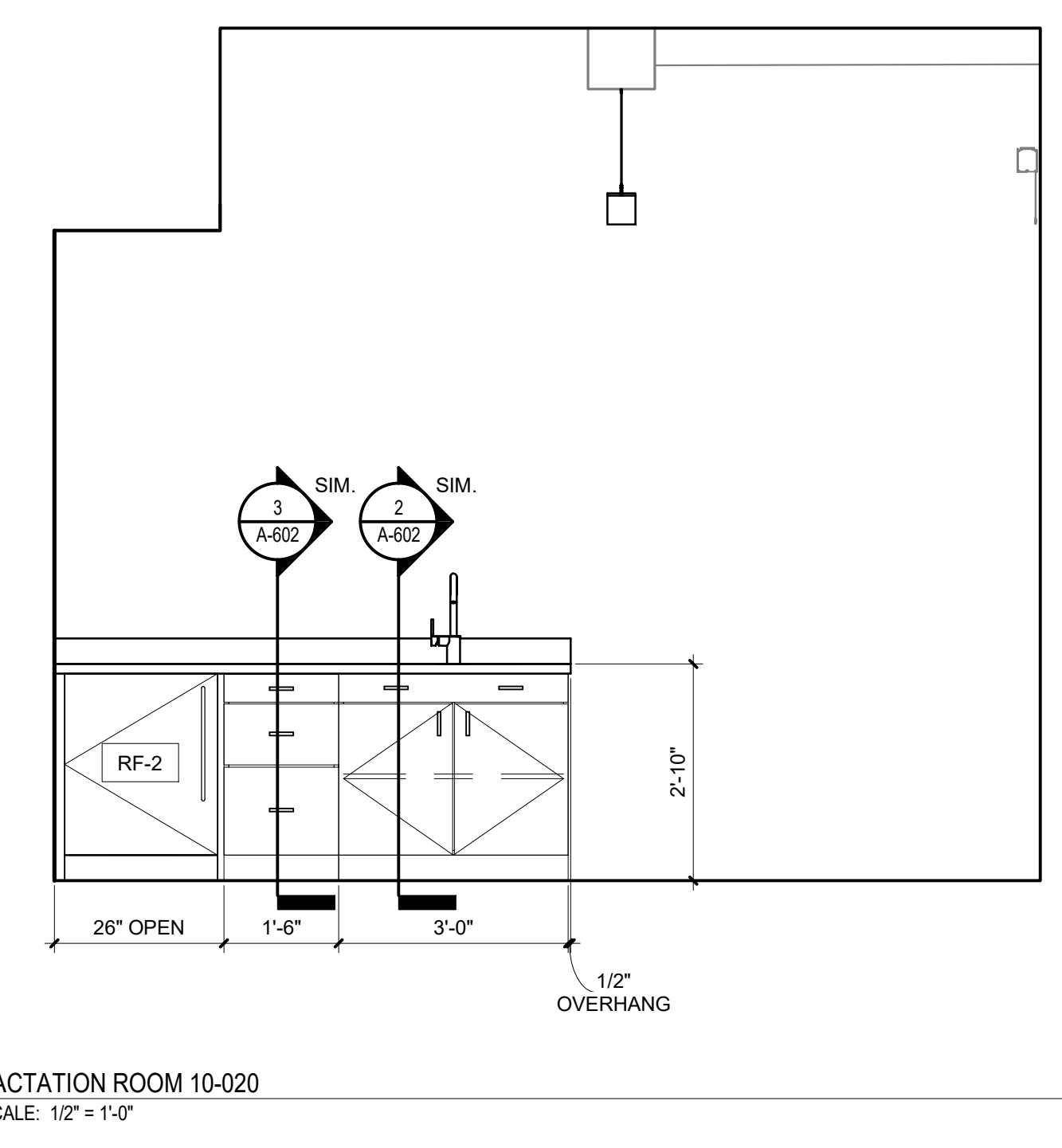
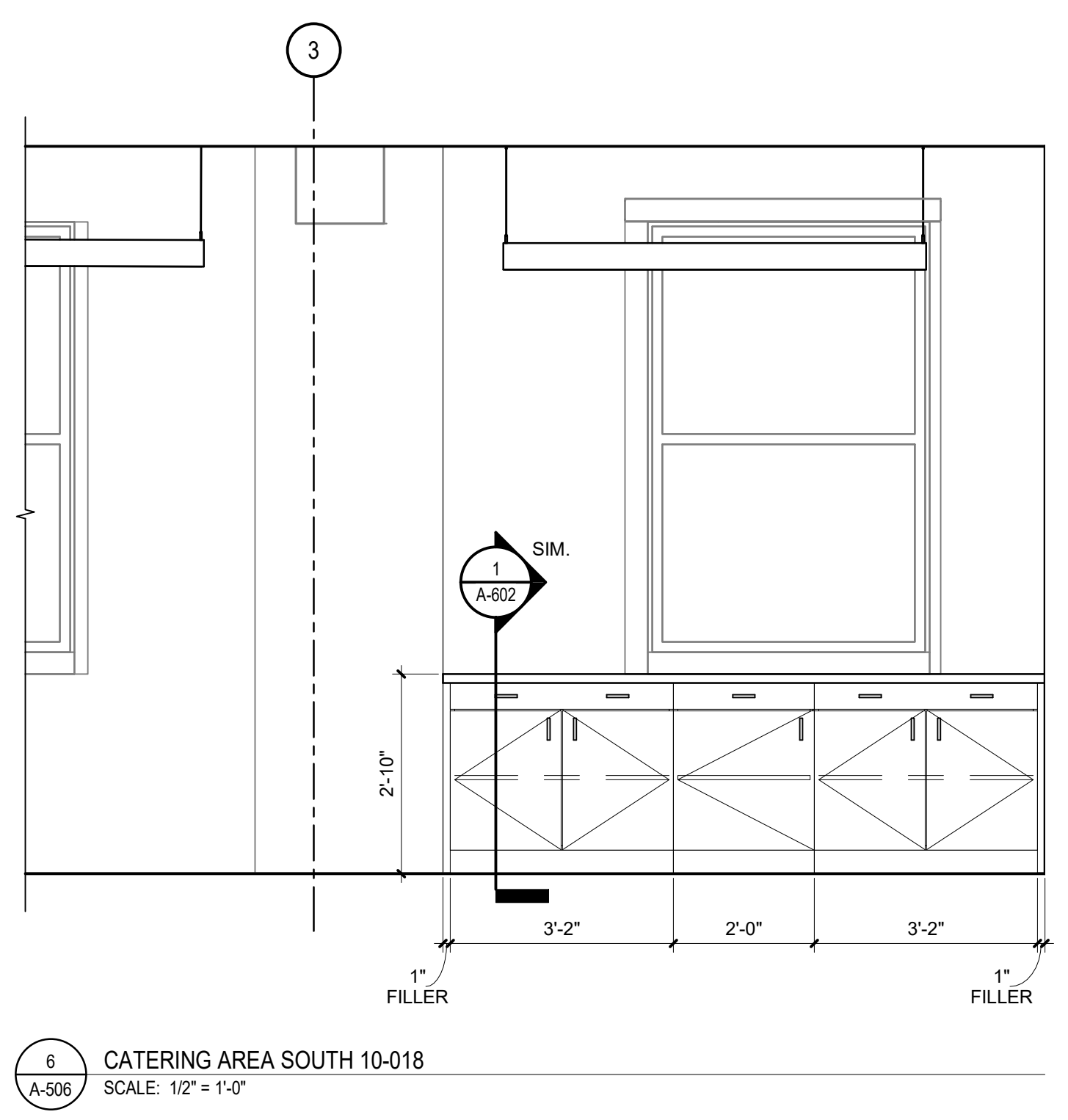
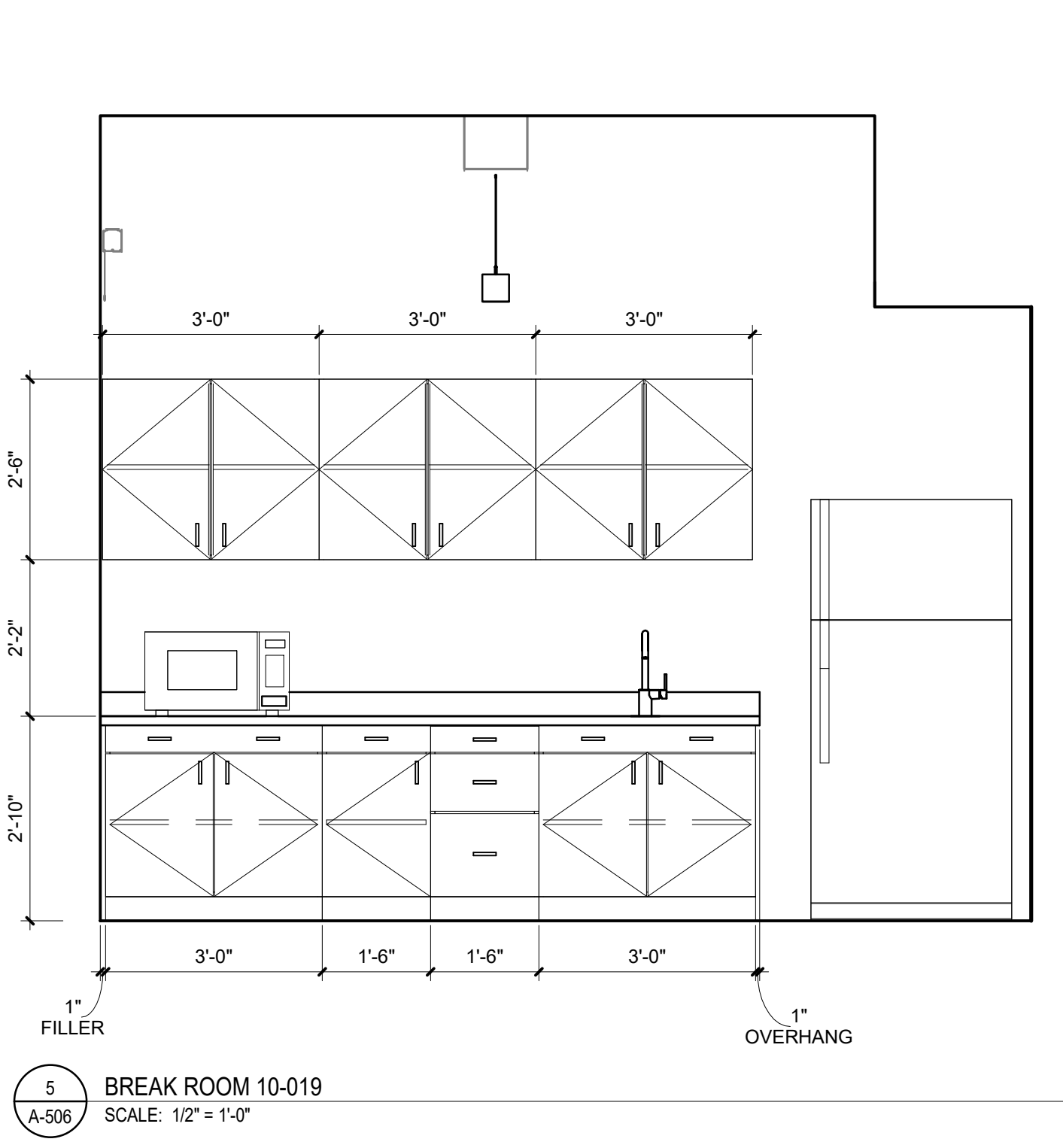
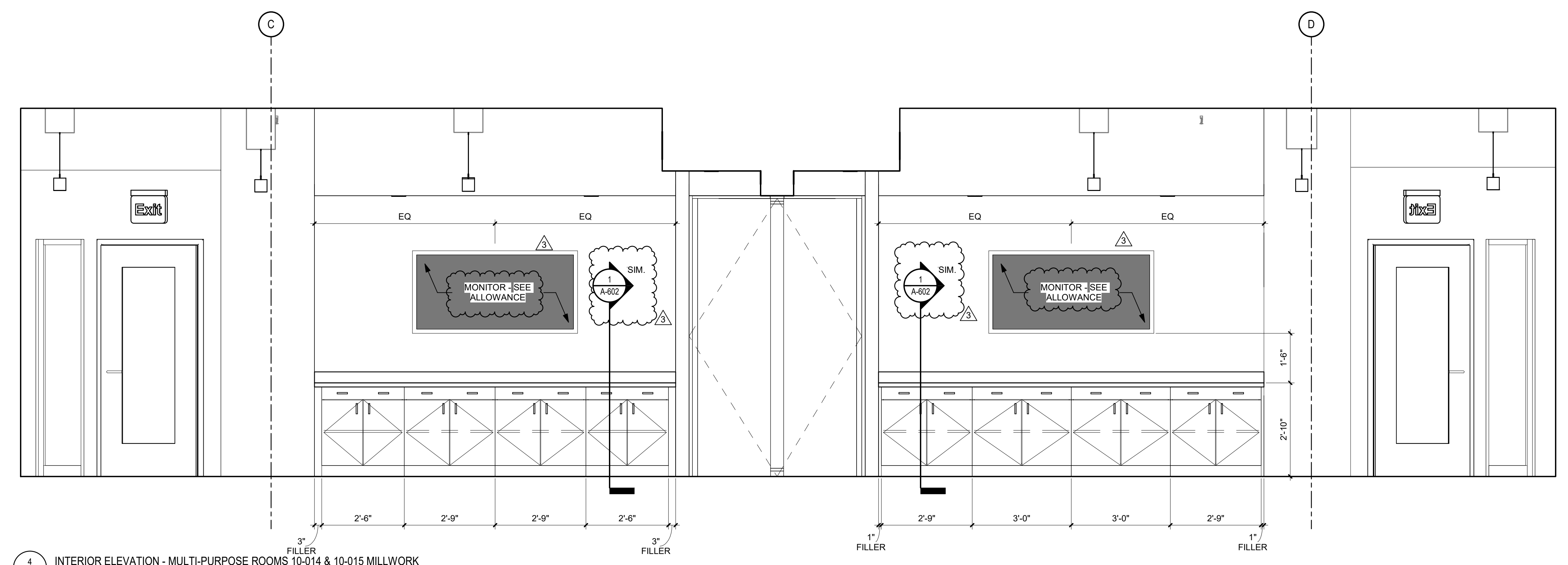
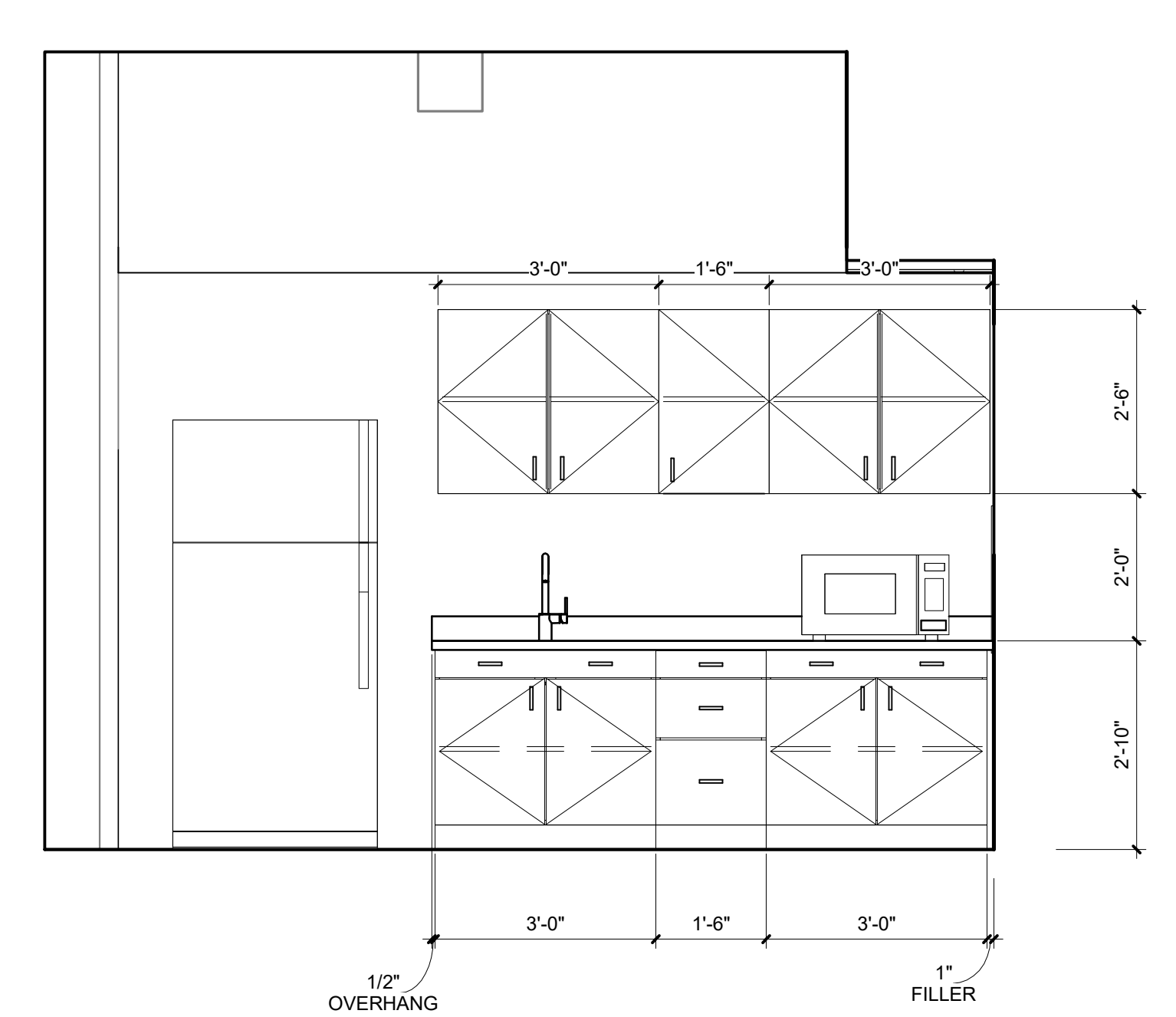
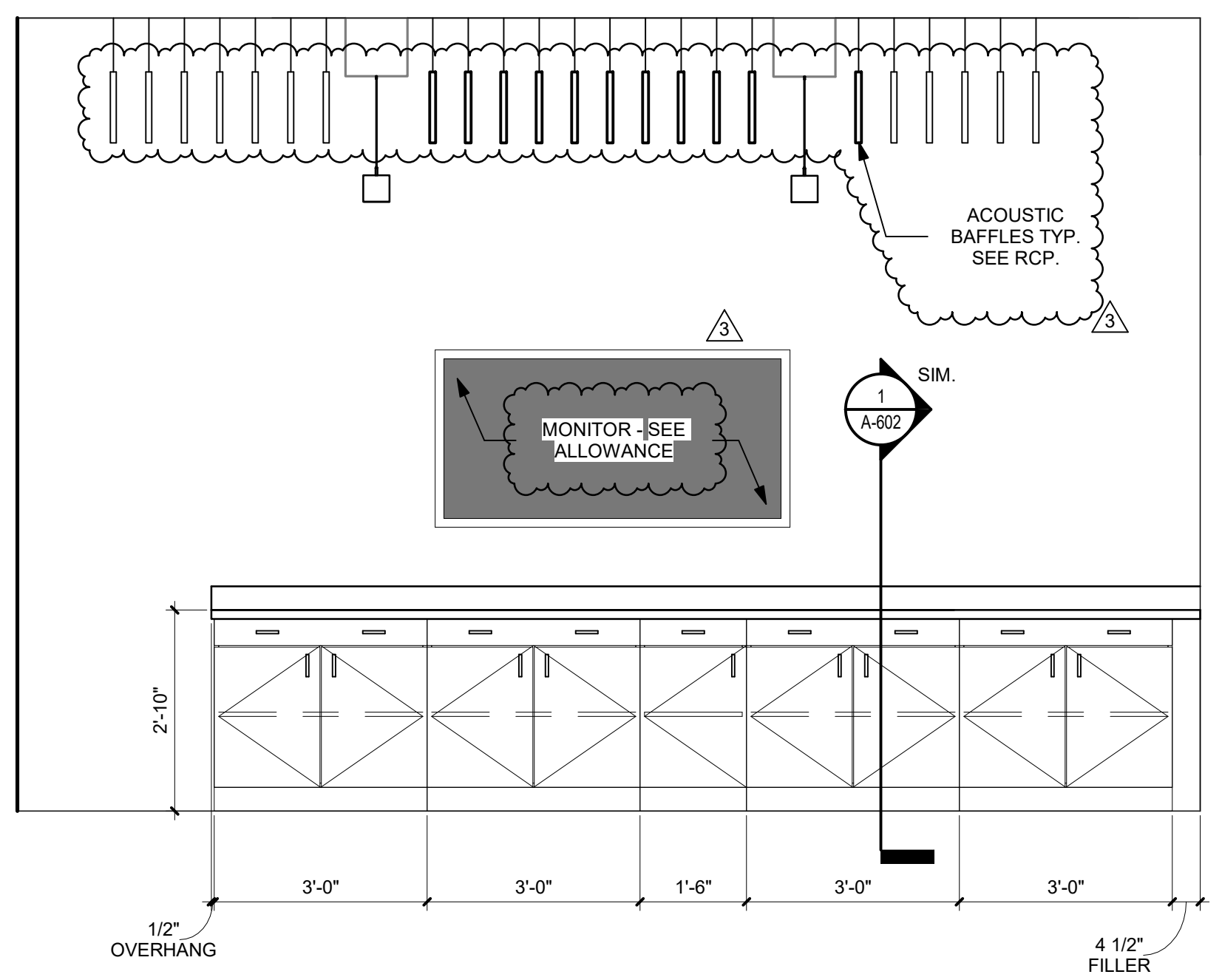
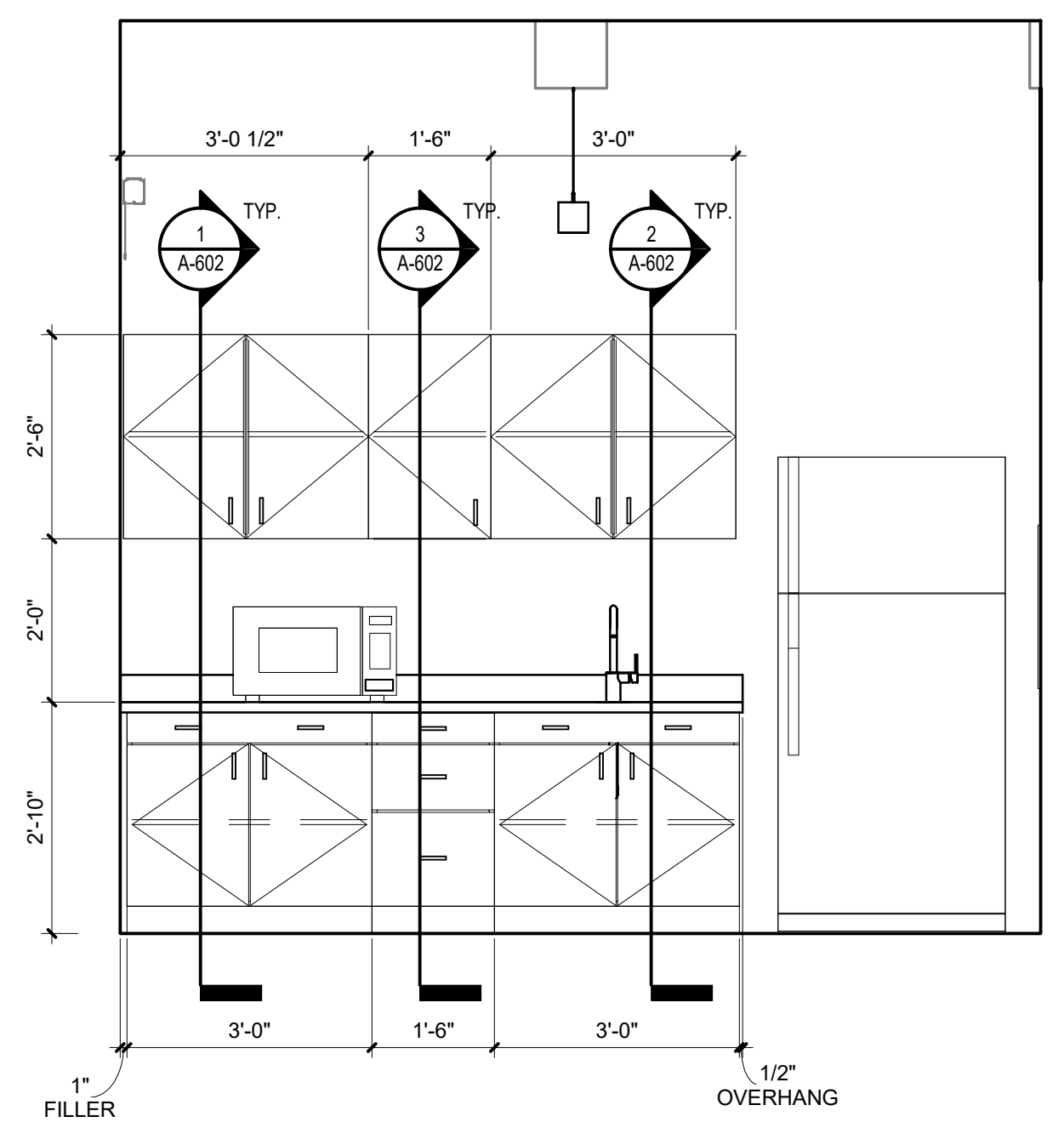
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DRAWING TITLE:  
**MILLWORK ELEVATIONS**

SHEET NO:  
**A-506**

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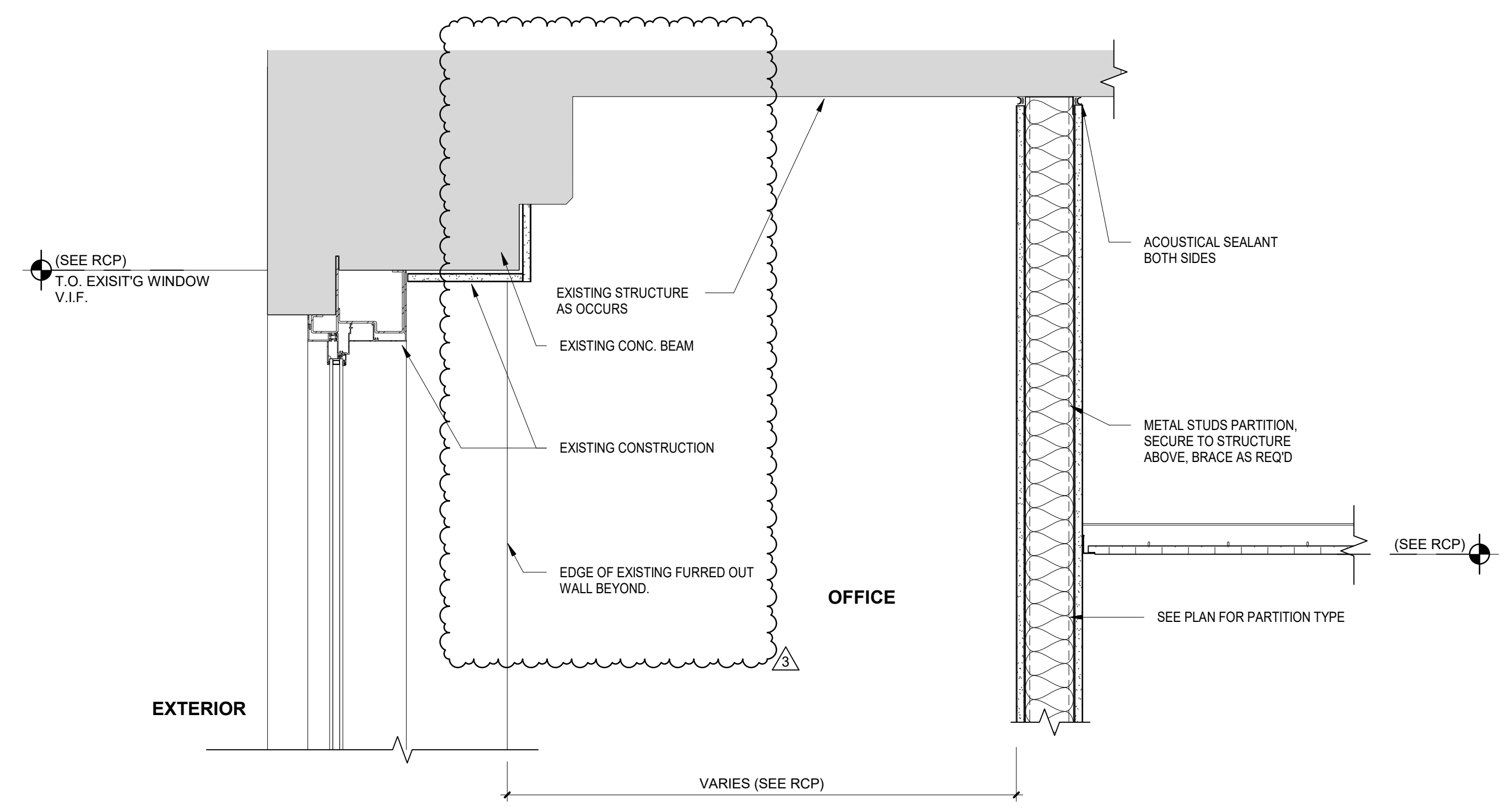
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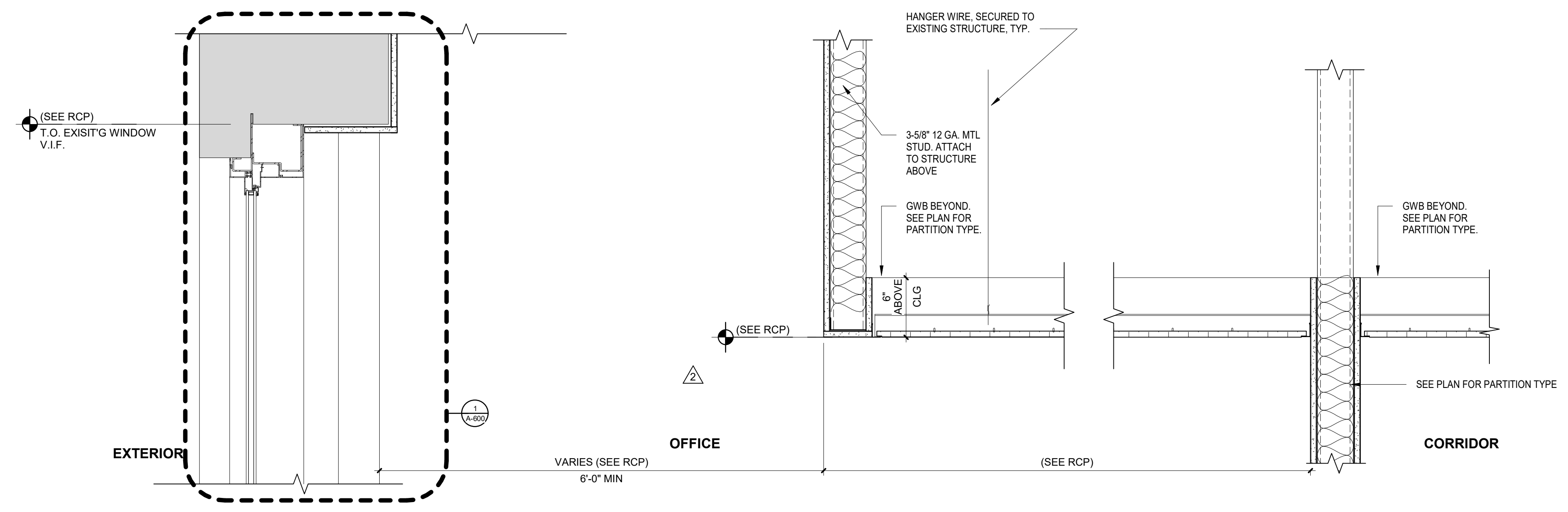
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**CEILING DETAILS**

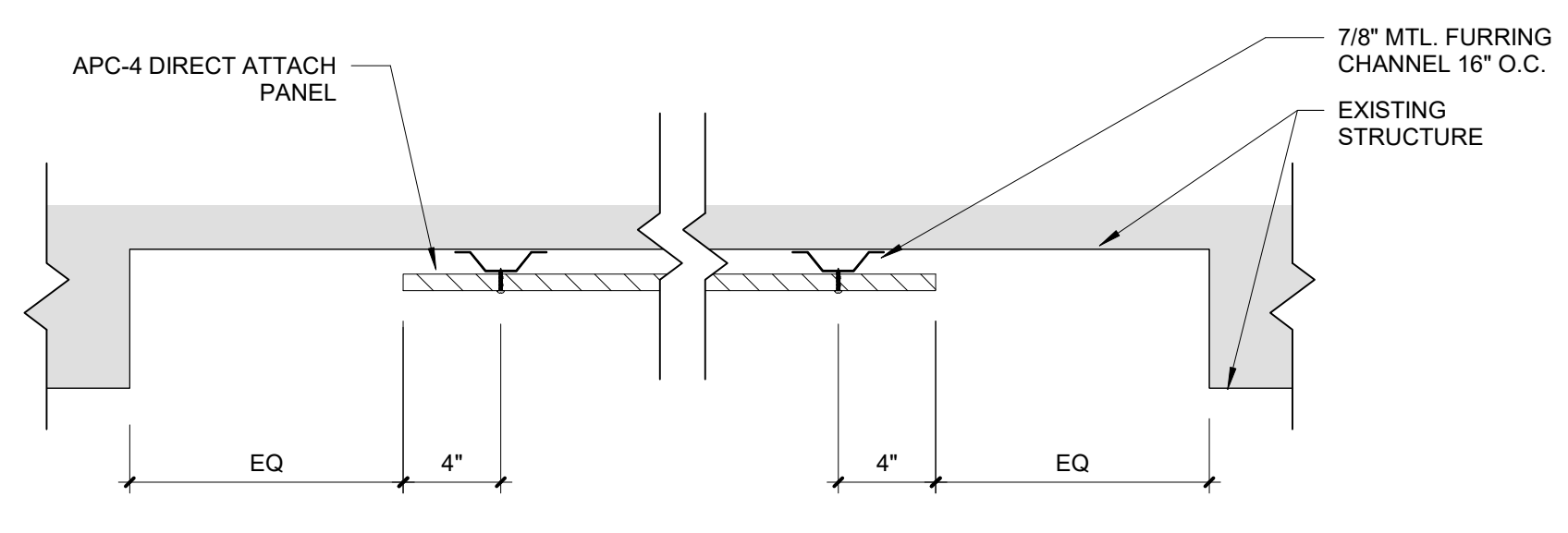
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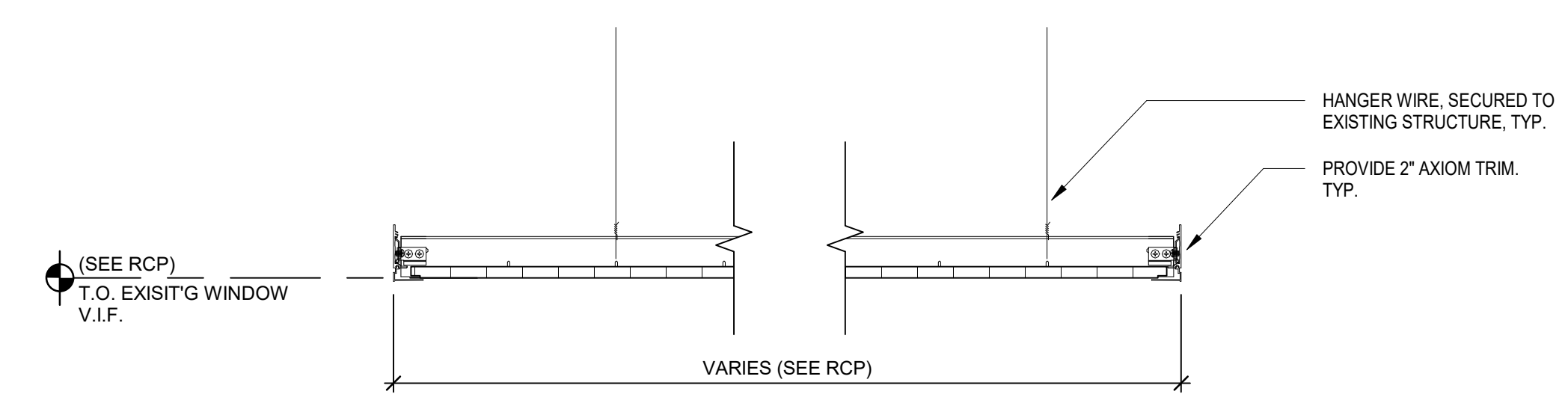
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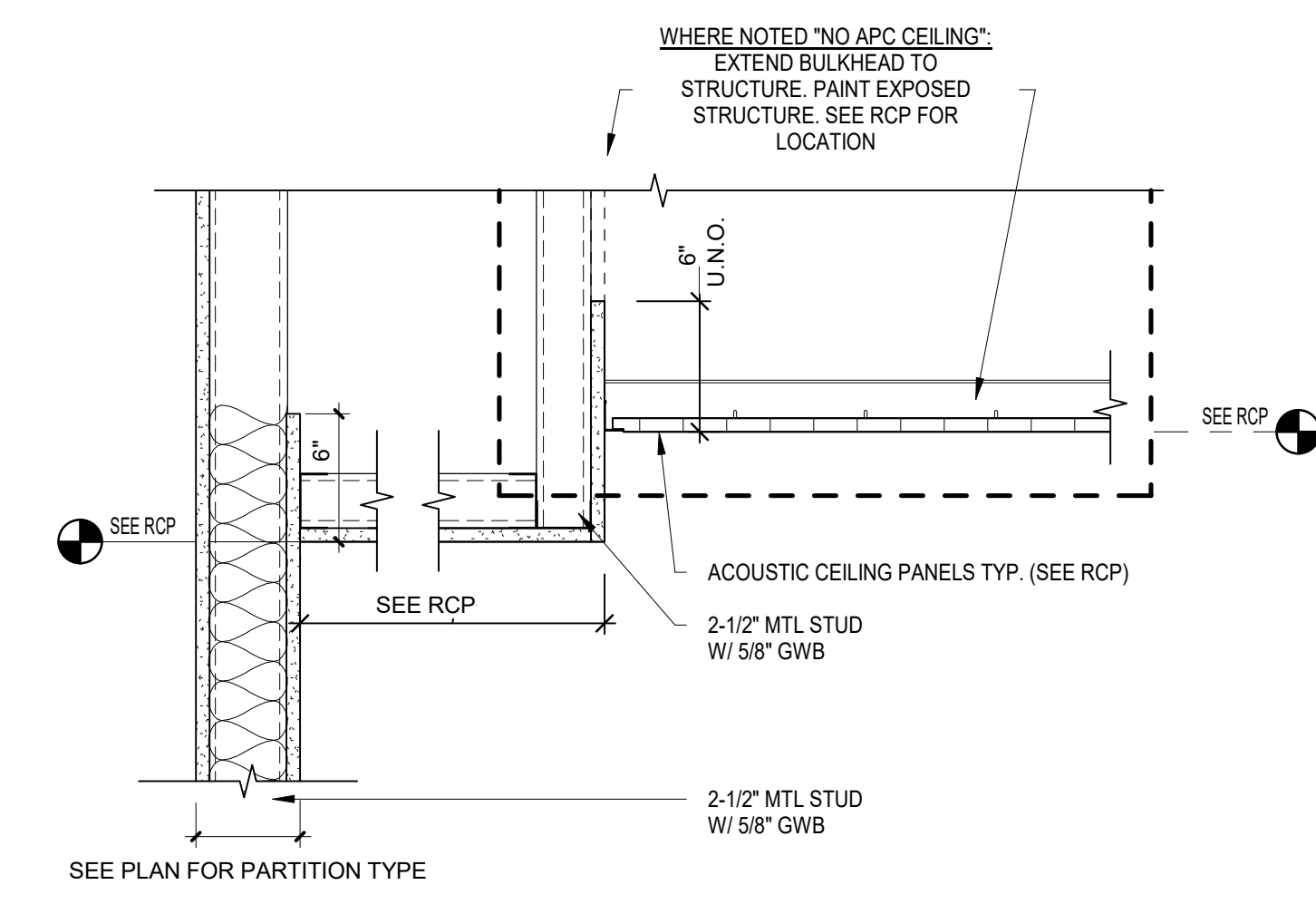
2 APC TO EXPOSED CEILING BULKHEAD @ EXTERIOR WINDOW - TYP.  
 SCALE: 1 1/2" = 1'-0"



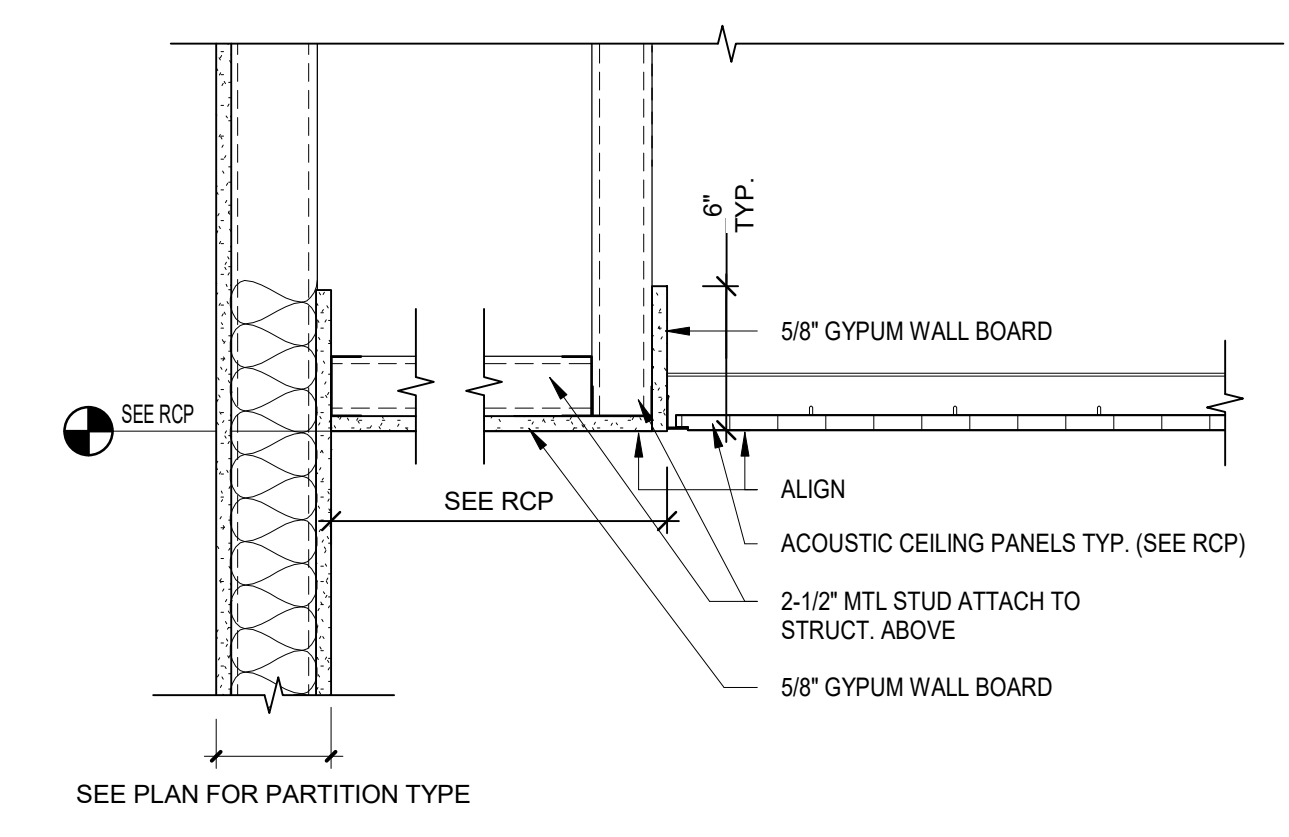
3 DIRECT ATTACH ACOUSTIC PANEL - APC-4  
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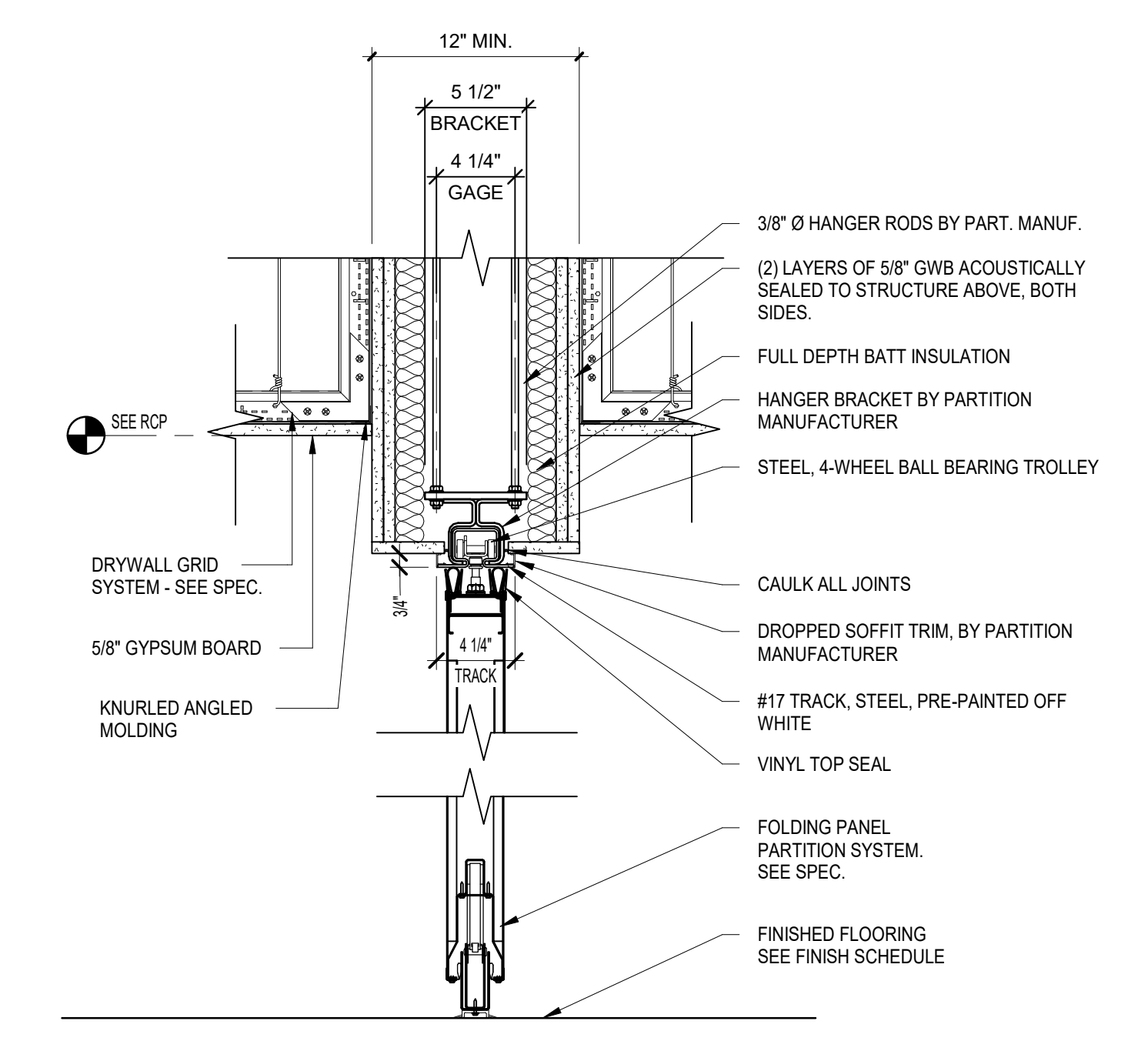
4 APC CLOUD CEILING W/ FLOAT EDGE AXIOM TRIM  
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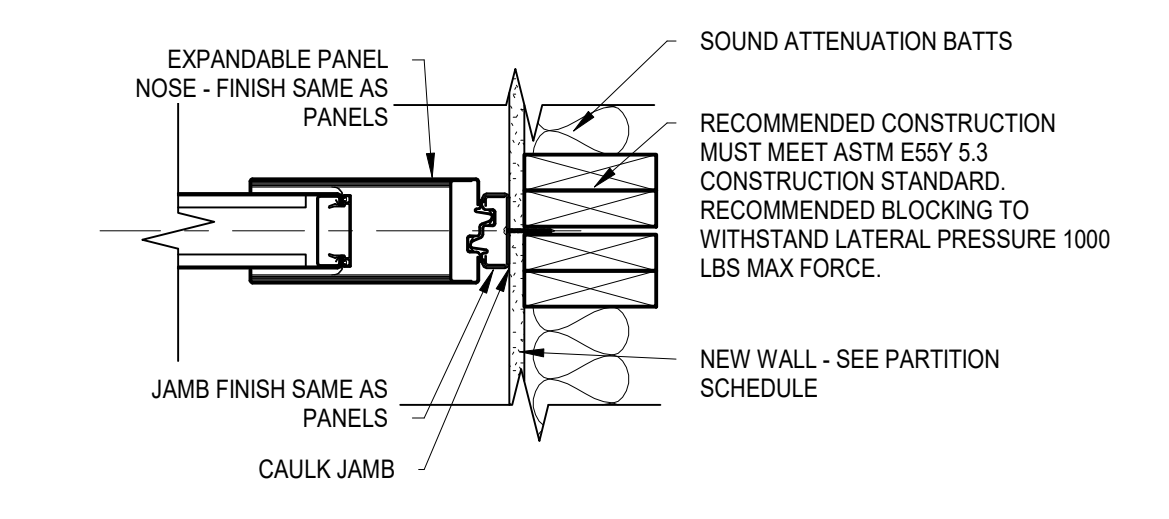
5 GYP SOFFIT TO APC - TYP.  
 SCALE: 1 1/2" = 1'-0"



6 GYP SOFFIT TO APC - SIM.  
 SCALE: 1 1/2" = 1'-0"



7 CEILING DETAIL @ OPERABLE PARTITION  
 SCALE: 1 1/2" = 1'-0"



8 JAMB DETAIL @ OPERABLE PARTITION  
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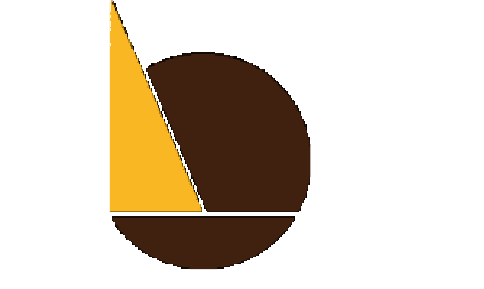




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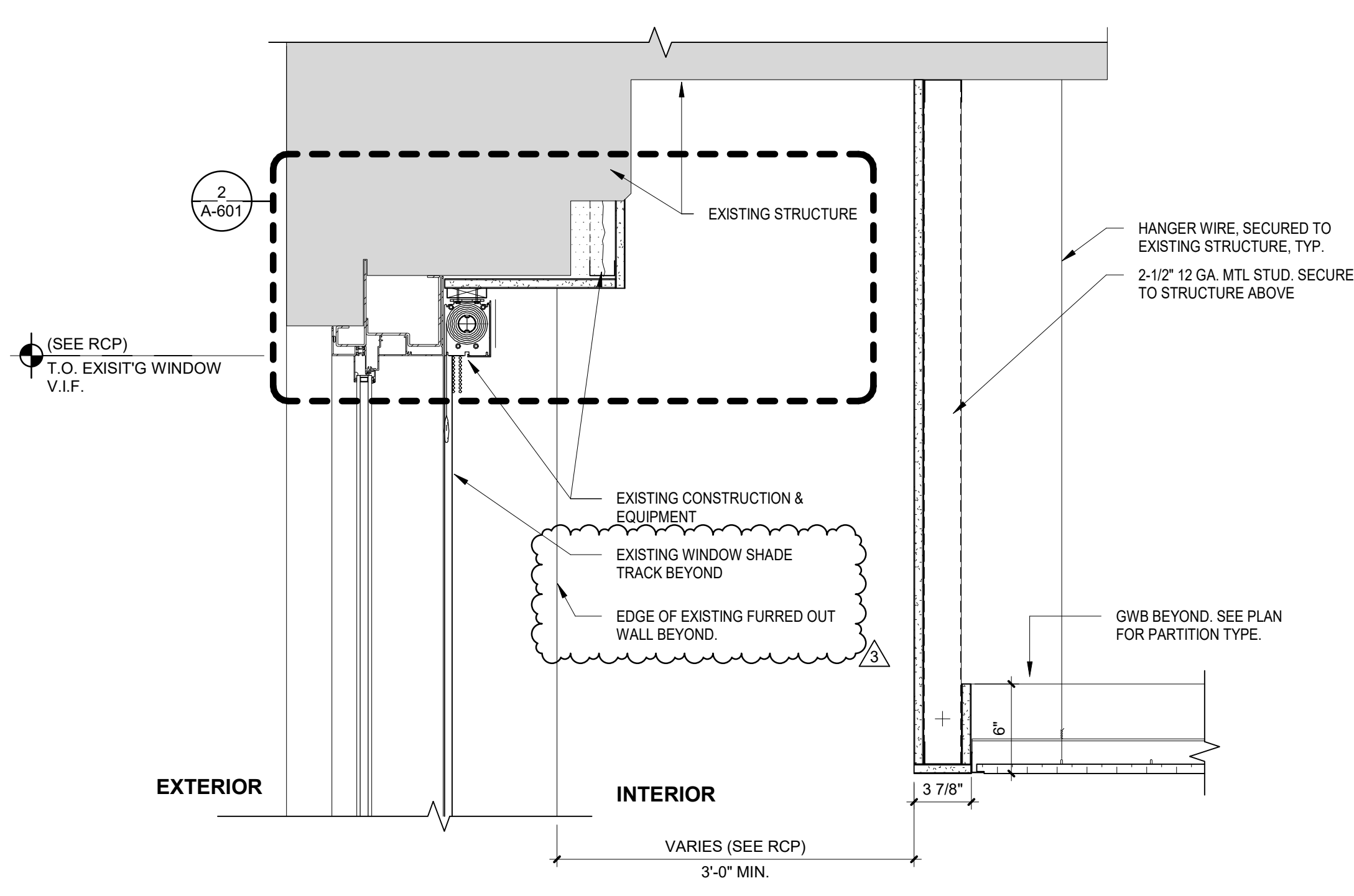
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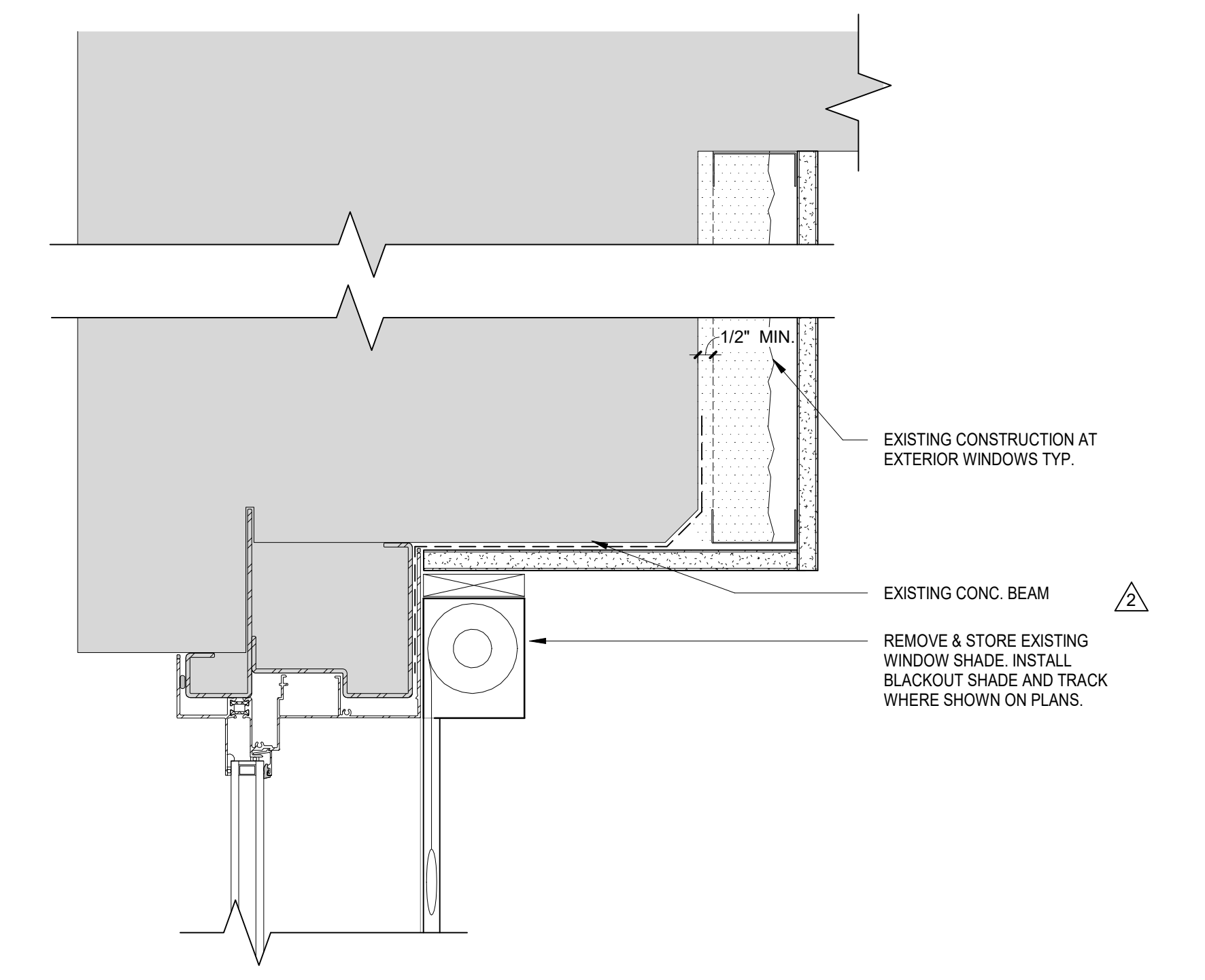
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DRAWING TITLE:  
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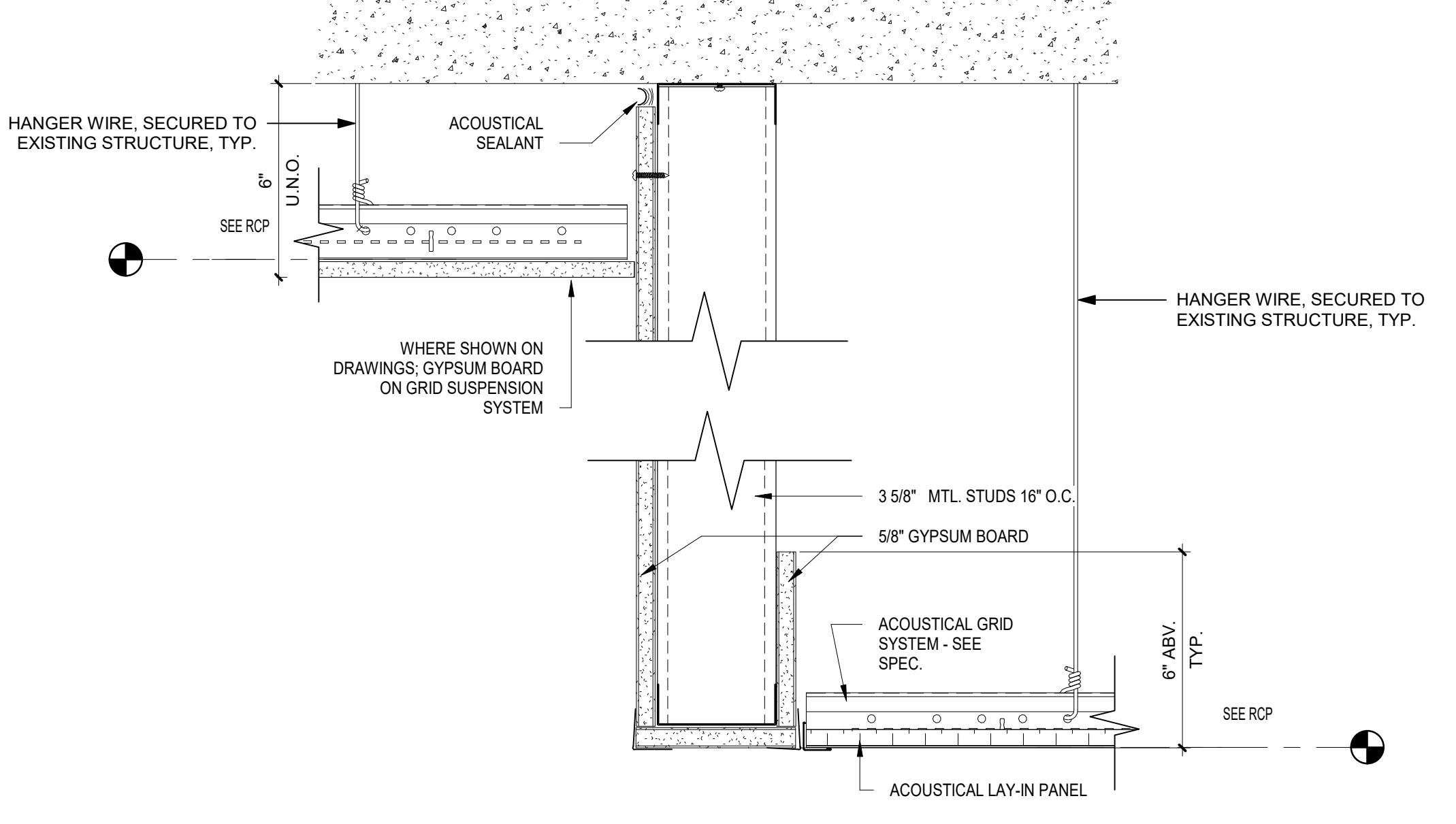
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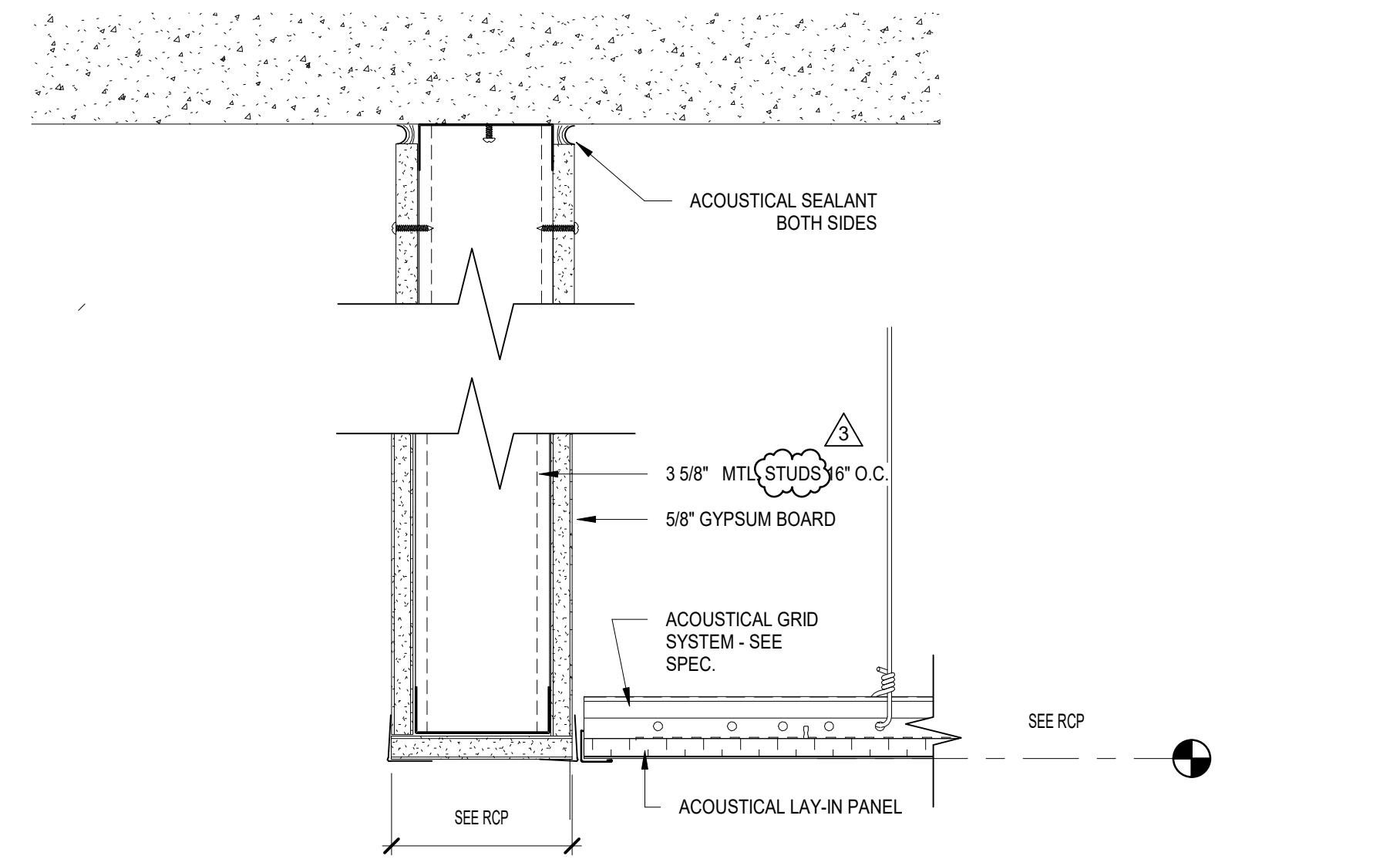
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 A-601  
 EXPOSED CEILING POCKET @ EXTERIOR WINDOWS  
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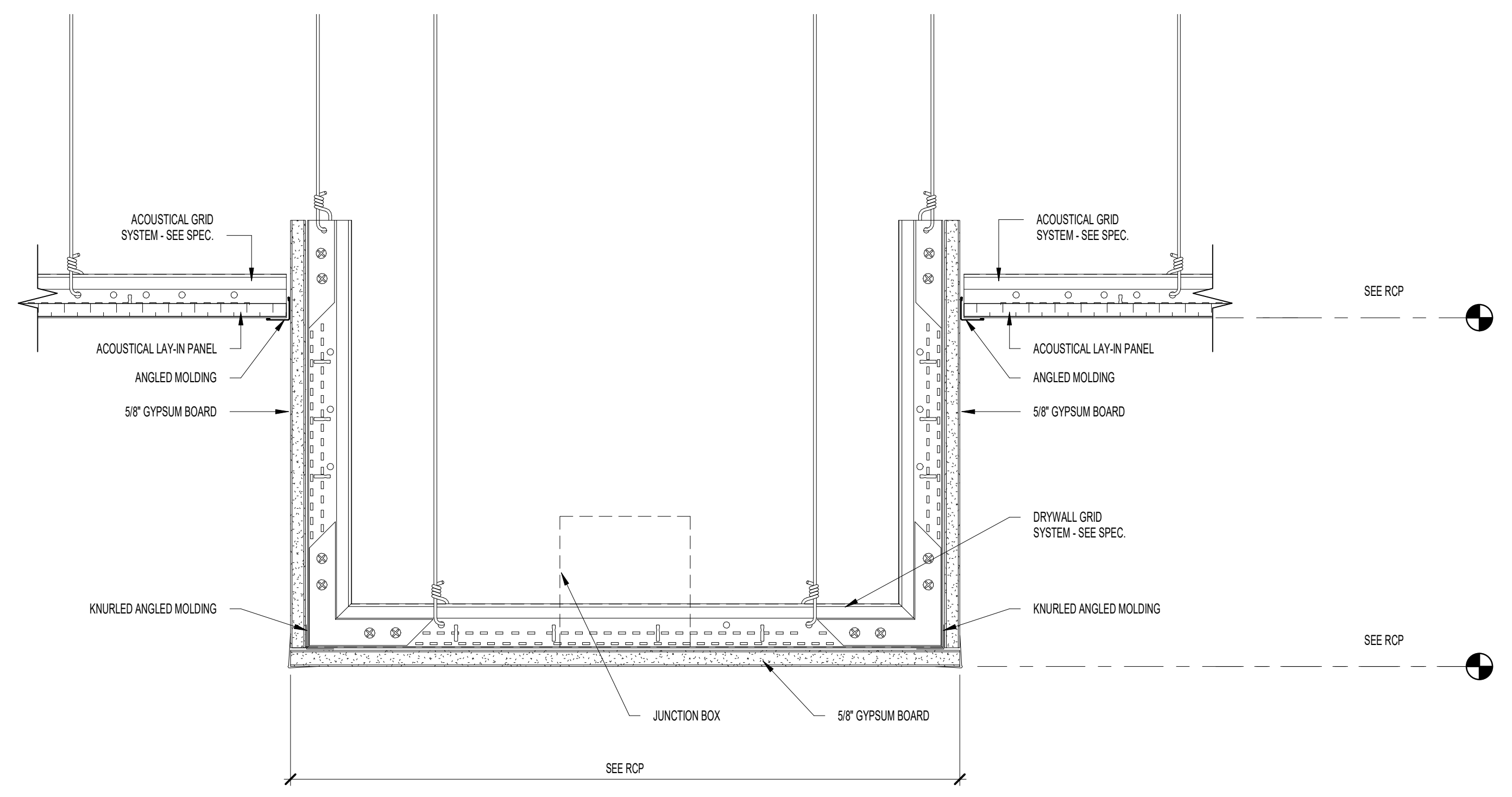
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 WINDOW HEAD DETAIL  
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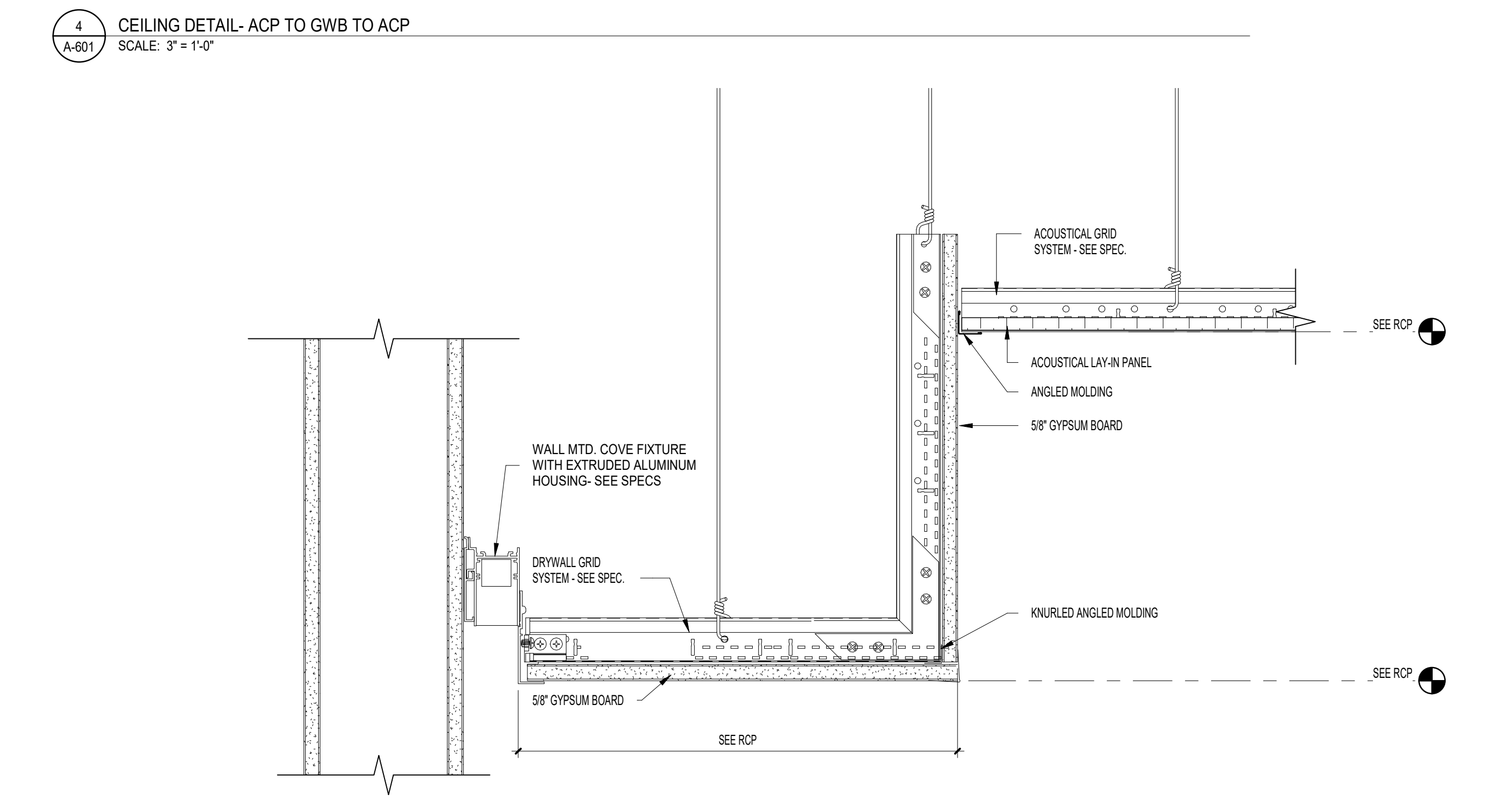
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 BULKHEAD - GWB CEILING TO ACP  
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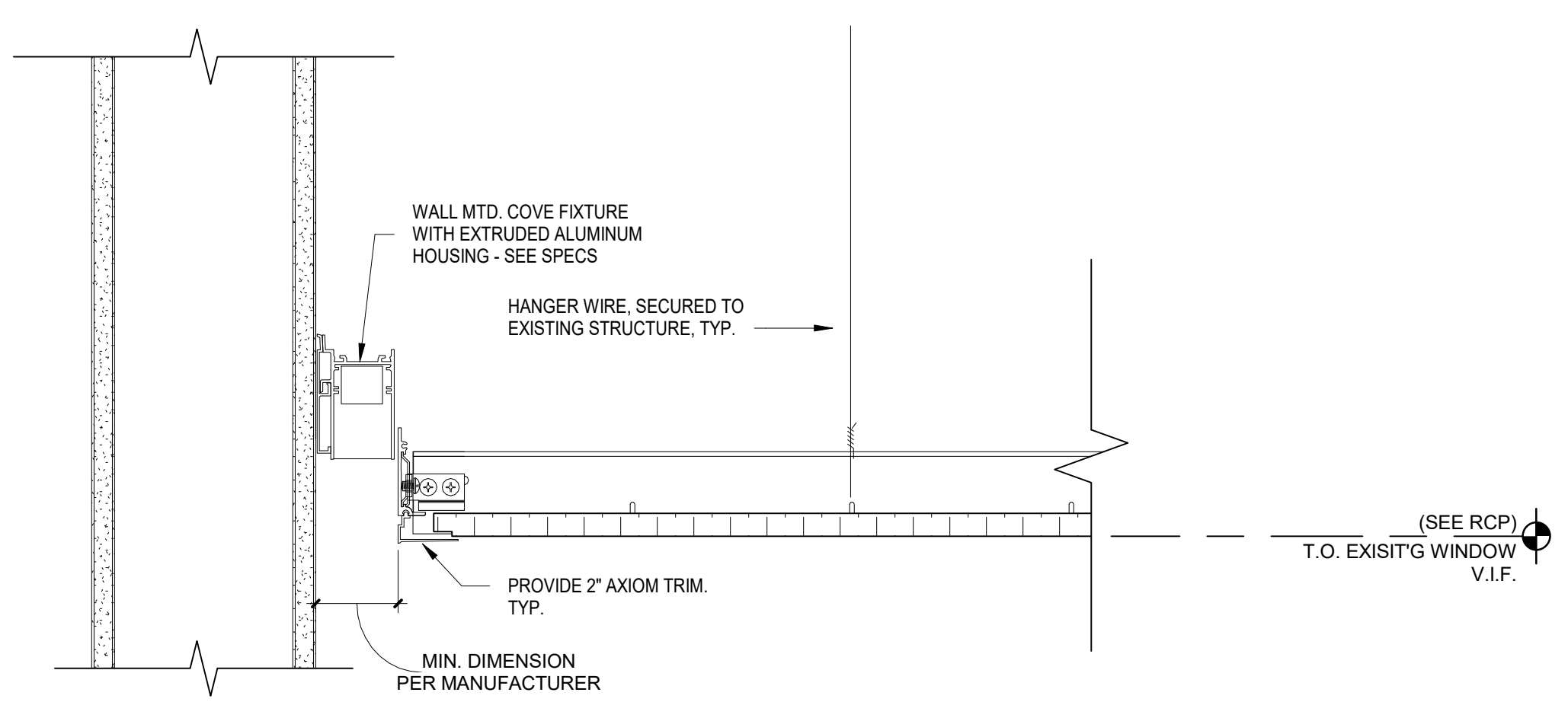
**4**  
 A-601  
 CEILING DETAIL - ACP TO GWB TO ACP  
 SCALE: 3/4" = 1'-0"



**5**  
 A-601  
 TRANSITION / BULKHEAD DETAIL (TYP.)  
 SCALE: 3/4" = 1'-0"



**6**  
 A-601  
 CEILING DETAIL - ACP TO GWB TO ACP  
 SCALE: 3/4" = 1'-0"



**7**  
 A-601  
 DIRECT LIGHT COVE DETAIL @ GWB SOFFIT  
 SCALE: 3/4" = 1'-0"

**8**  
 A-601  
 DIRECT LIGHT COVE DETAIL @ APC CEILING  
 SCALE: 3/4" = 1'-0"

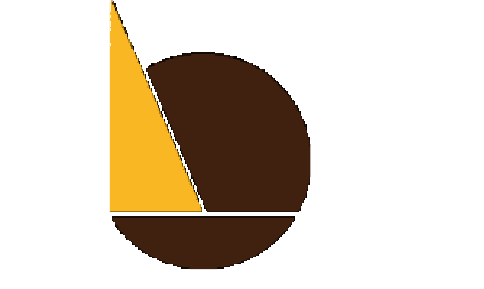




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 Chadds Ford, PA 19317  
 P (610) 459-7900  
 F (610) 459-7950  
 aroraengineers.com



**O'Donnell & Naccarato**  
 701 Market Street, Suite 6000  
 Philadelphia, PA 19106  
 PH: 215.925.3788  
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PROJECT TITLE:  
**THE CITY OF PHILADELPHIA  
 OFFICE OF EMERGENCY MANAGEMENT  
 PHILADELPHIA PUBLIC SERVICES BUILDING  
 400 NORTH BROAD STREET, PHILADELPHIA, PA 19130  
 FLOORS 8, 9 AND 10**

- PROGRESS SET
- CLIENT REVIEW
- BID SET
- CODE REVIEW SET
- ISSUED FOR CONSTRUCTION

**ISSUED FOR BIDS**  
**09/18/2020**  
 (NOT FOR CONSTRUCTION)

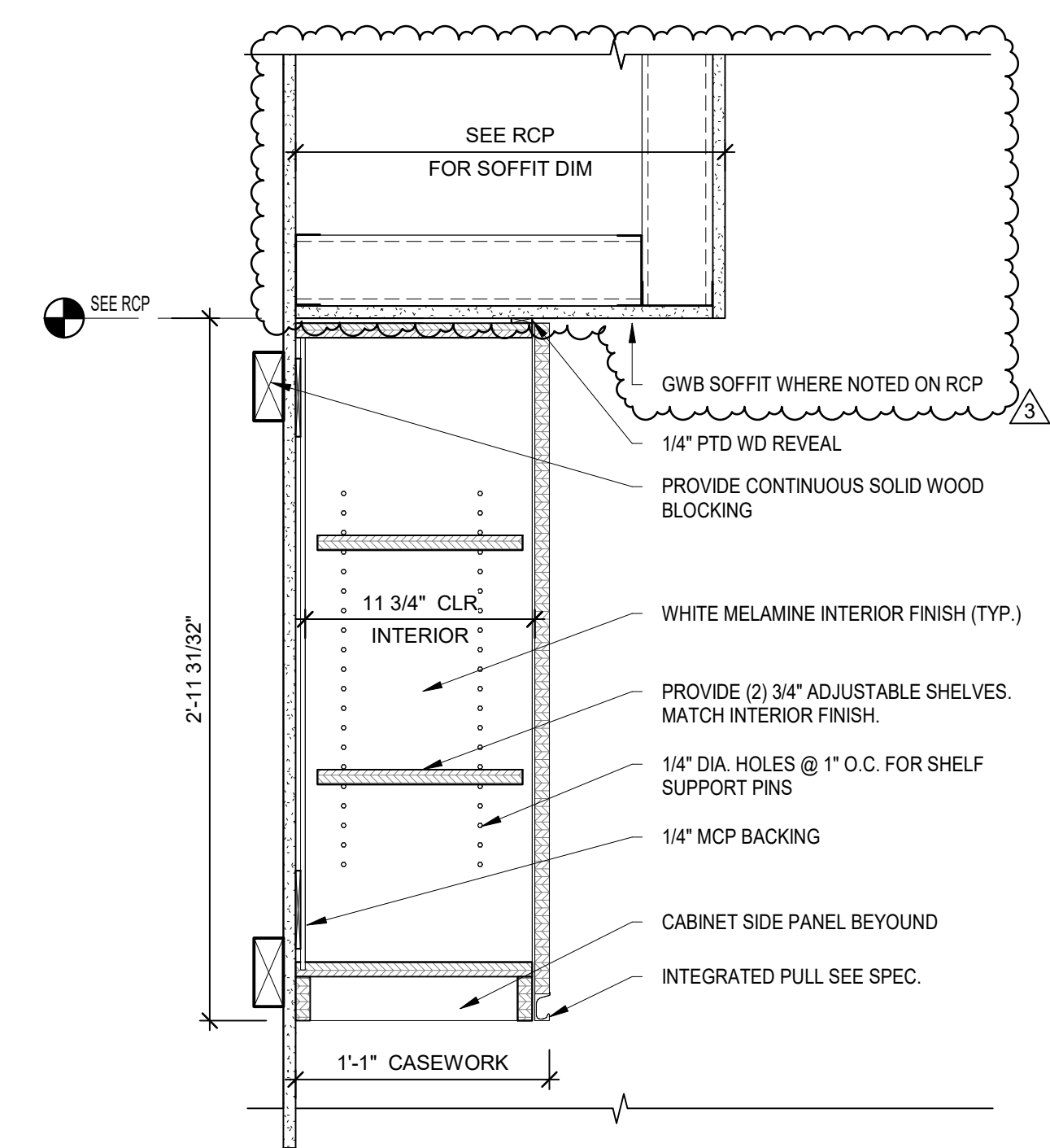
- ISSUES/REVISIONS:
- 1 9/18/2020 ISSUED FOR BIDS
  - 2 10/15/2020 ADDENDUM NO. 1
  - 3 11/02/2020 ADDENDUM NO. 3

PROJECT NUMBER: 304103-120  
 SCALE: As indicated  
 DATE: 10/06/2020  
 DRAWN BY: SM  
 CHECKED BY: PT

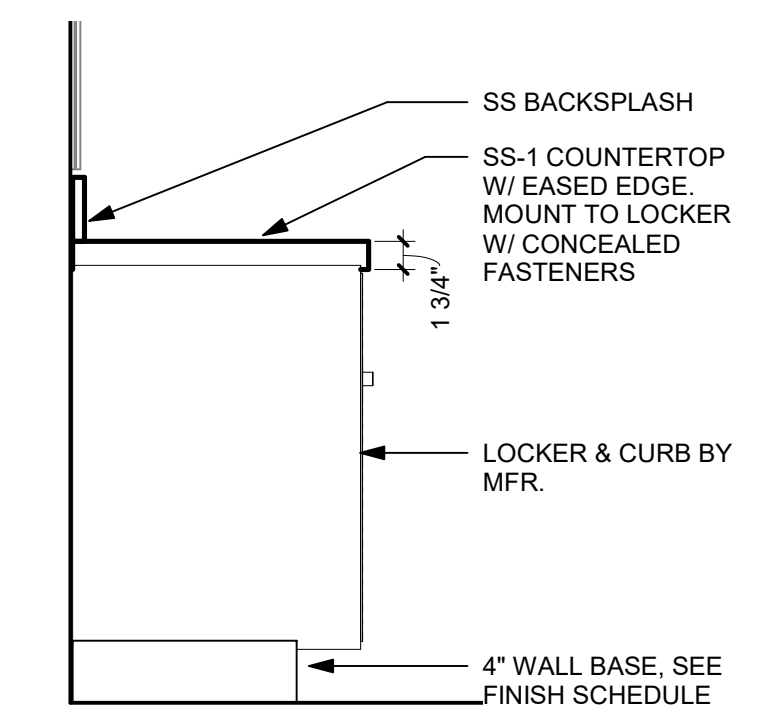
DRAWING TITLE:  
**MILLWORK  
 DETAILS**

SHEET NO.:

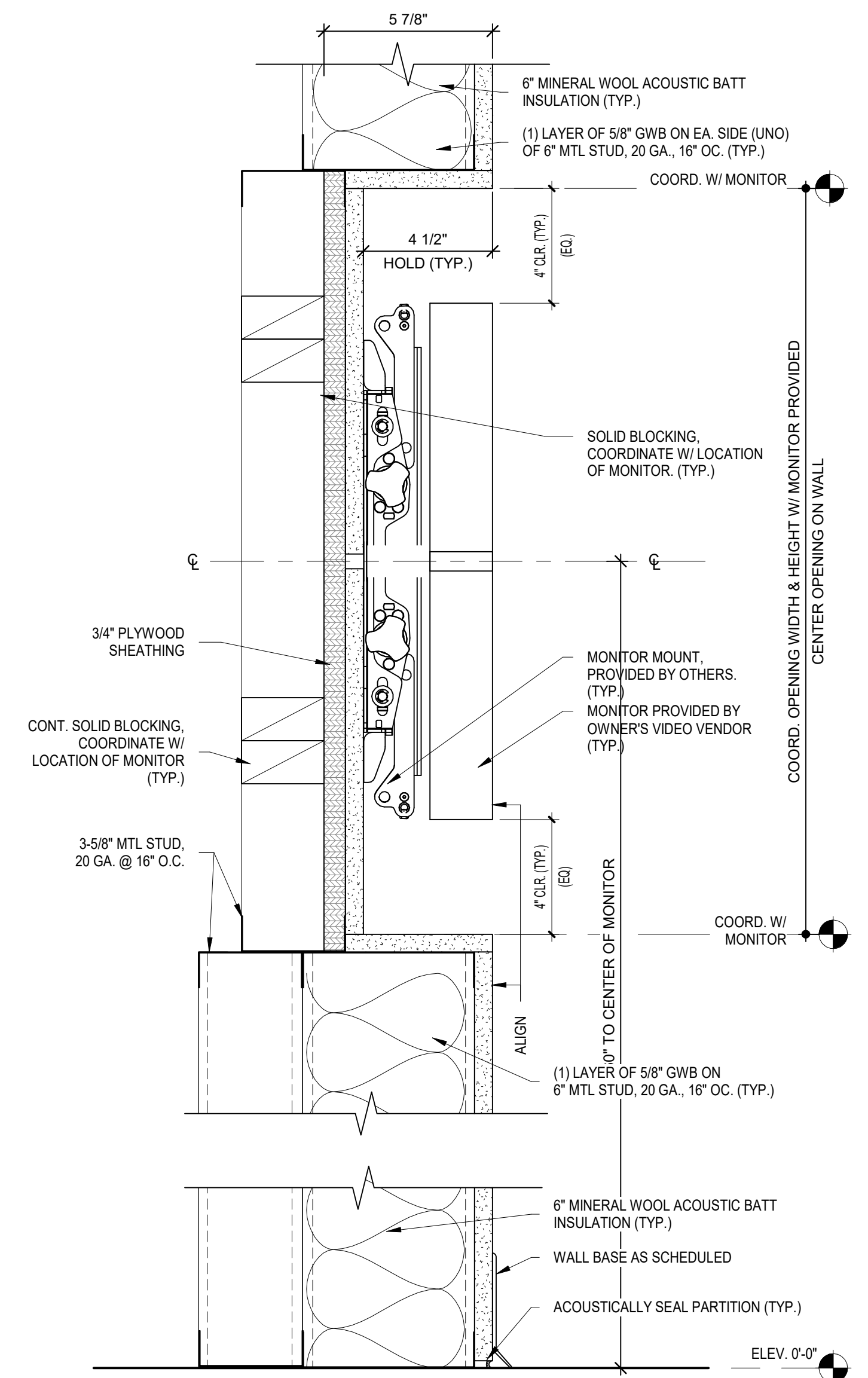
**A-602**



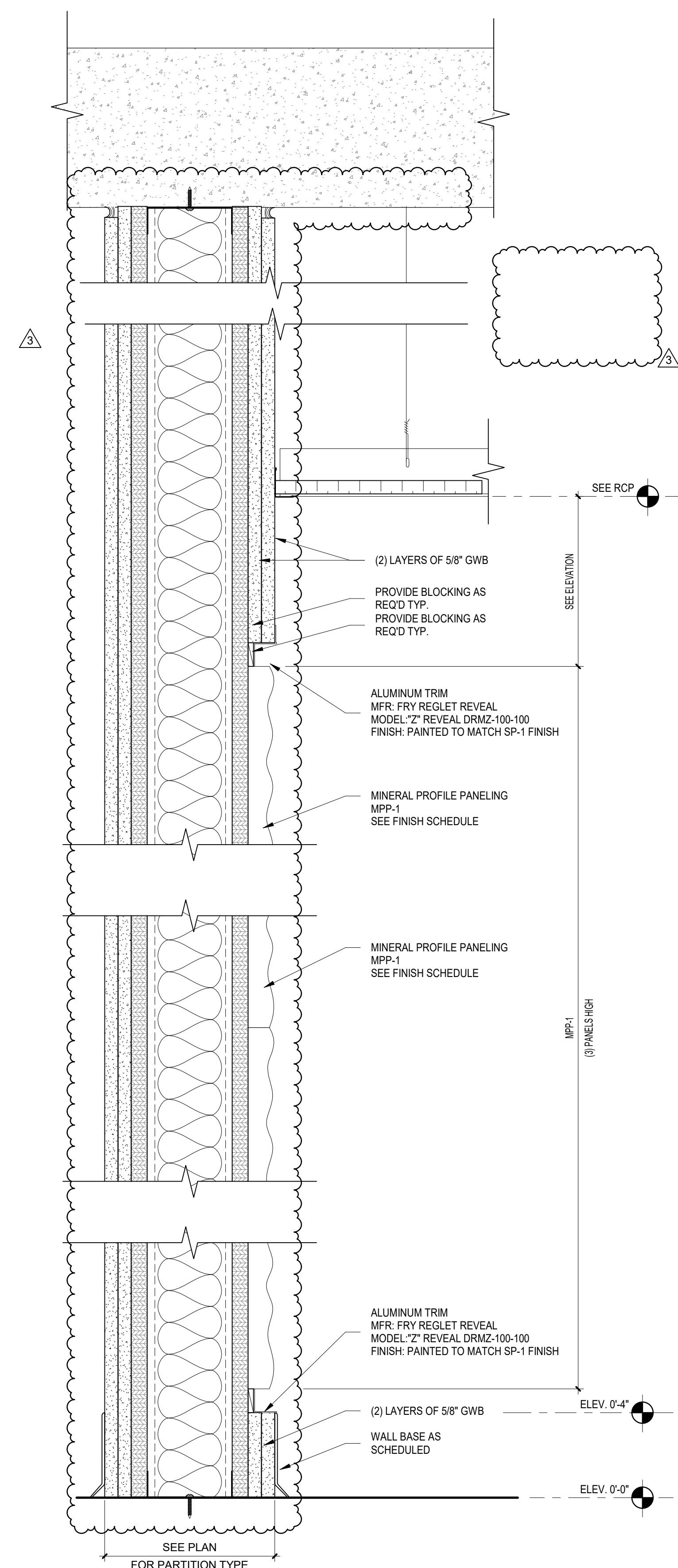
**4 WALL HUNG CABINET W/ SOFFIT**  
 SCALE: 1 1/2" = 1'-0"



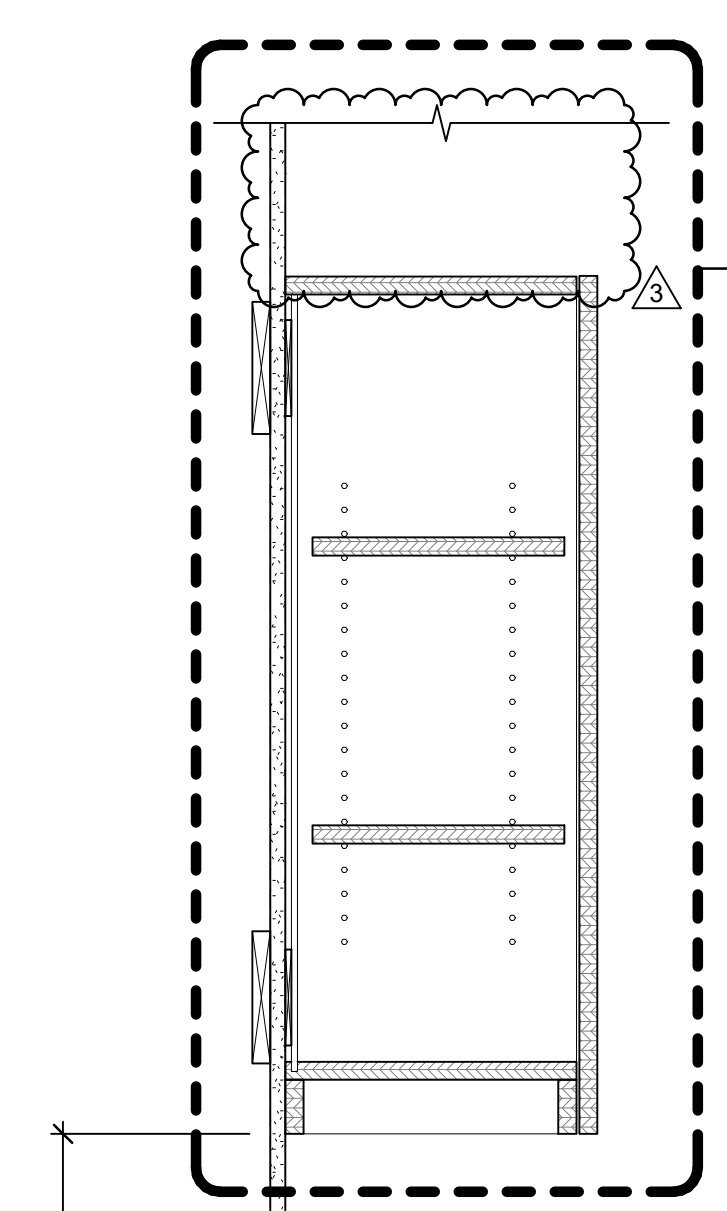
**9 1-TIER LOCKER DETAIL**  
 SCALE: 1" = 1'-0"



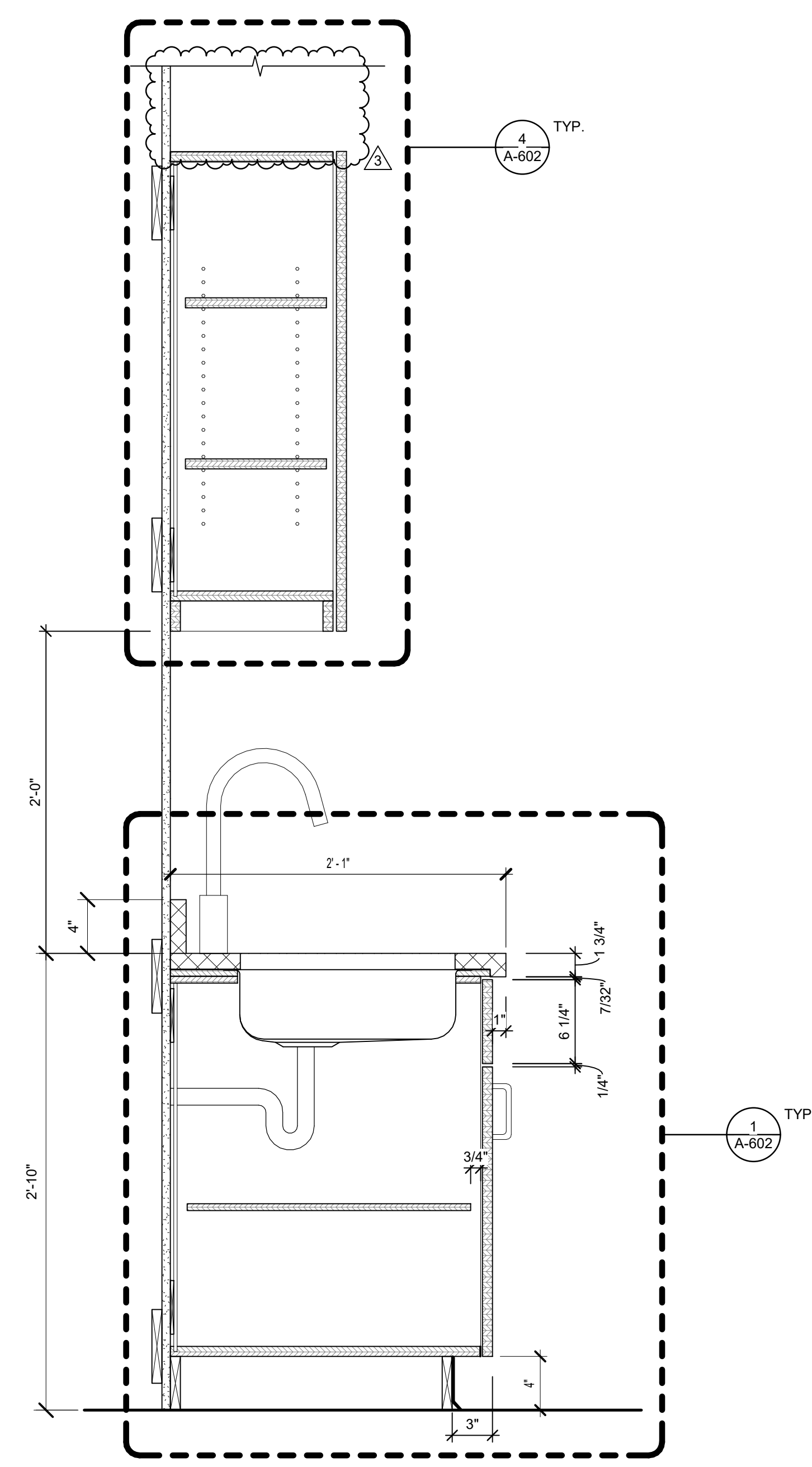
**5 FRAMING @ VIDEO WALL**  
 SCALE: 3" = 1'-0"



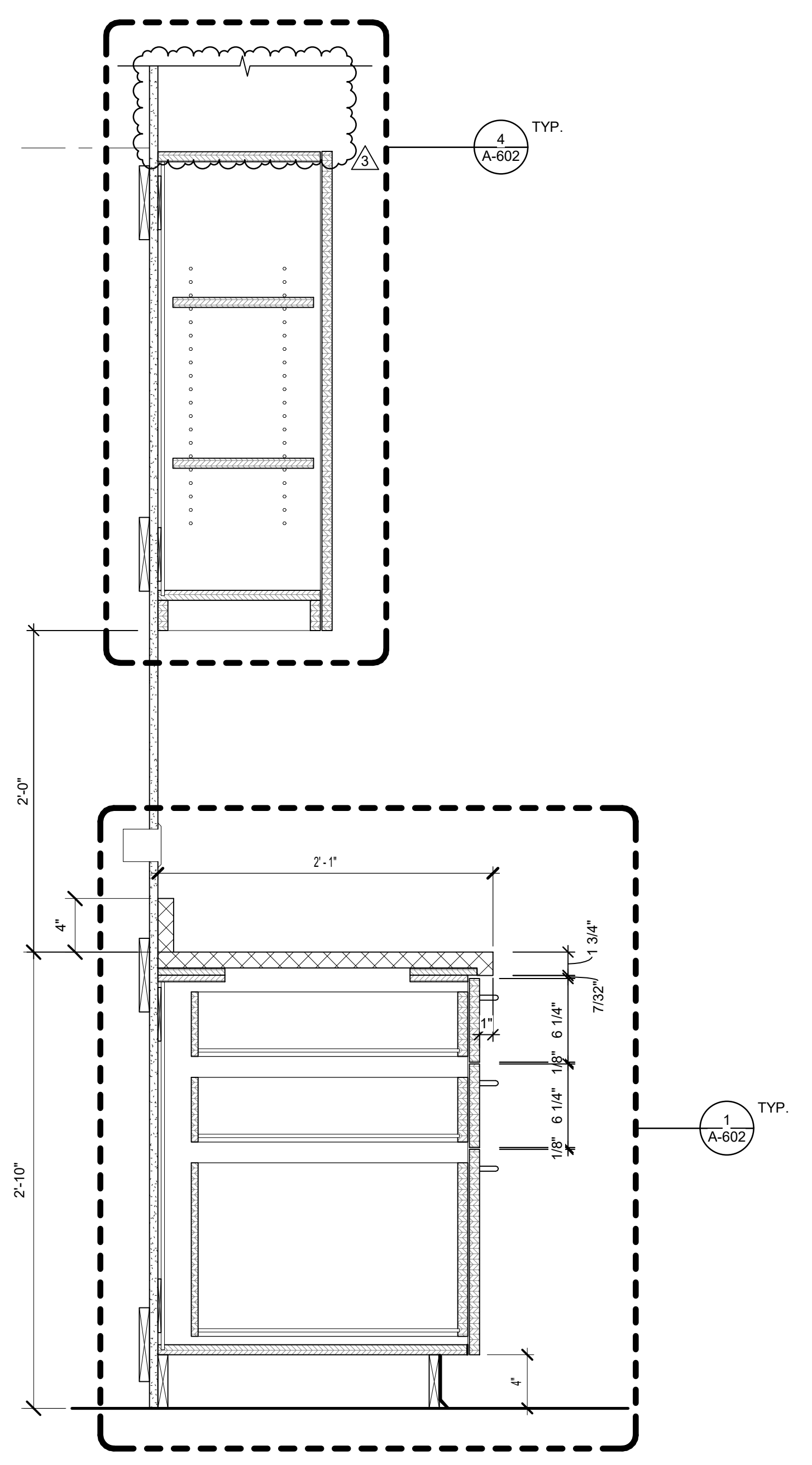
**6 SCULPTURAL WALL PANEL - SECTION DETAIL**  
 SCALE: 3" = 1'-0"



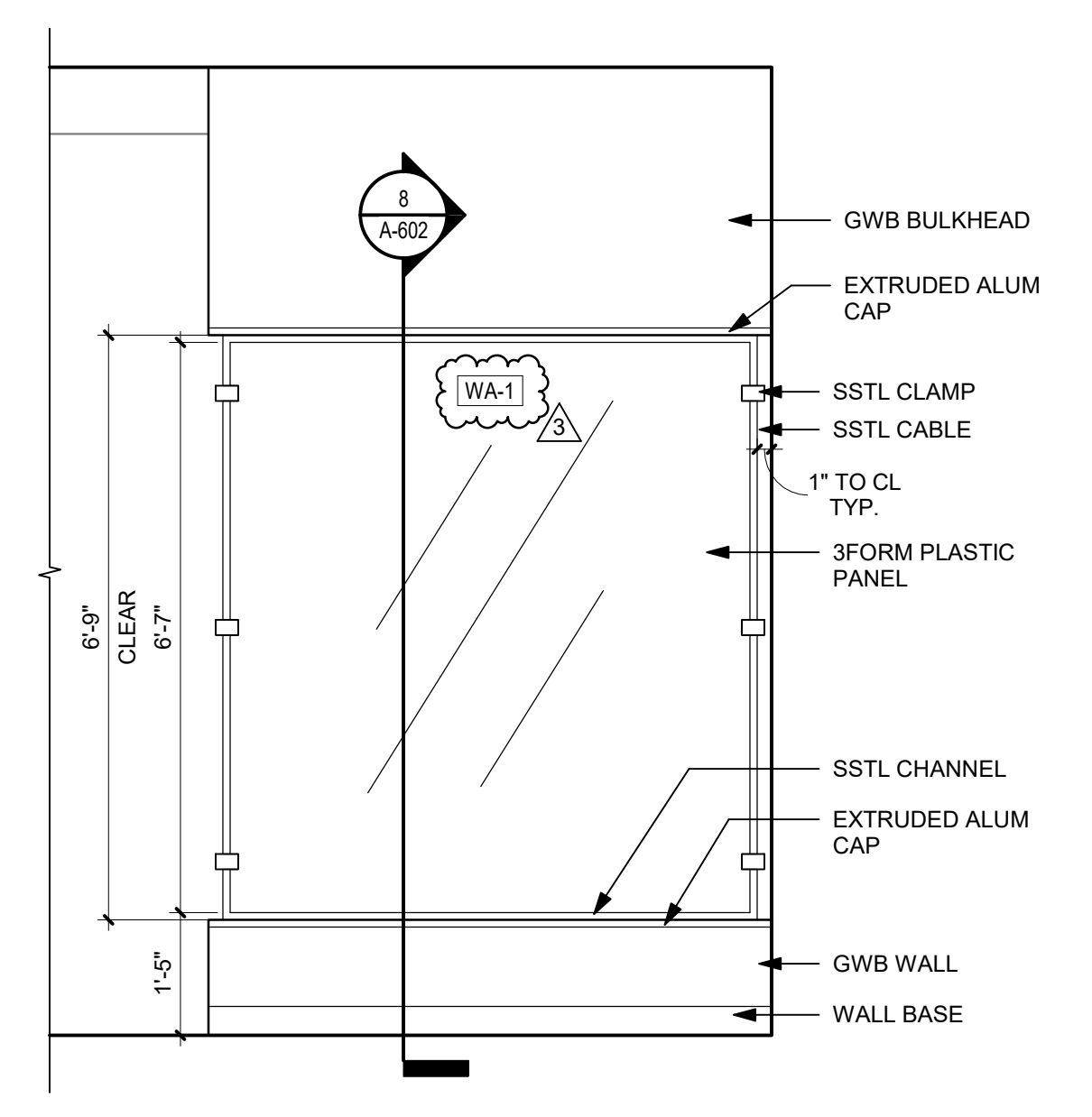
**1 BASE CABINET W/ DRAWER**  
 SCALE: 1 1/2" = 1'-0"



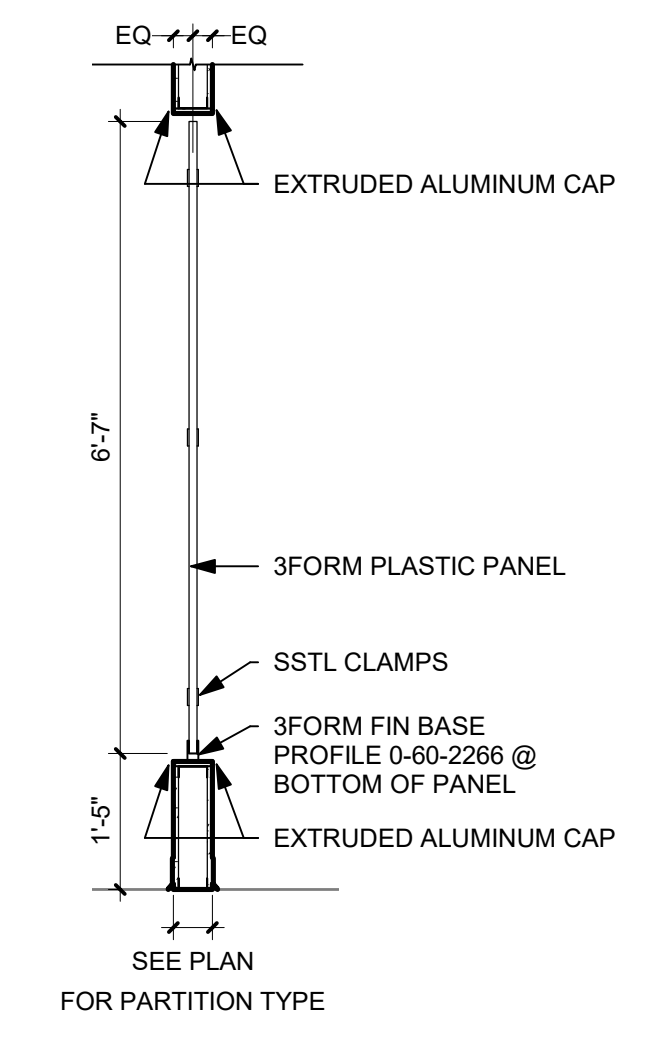
**2 BASE CABINET W/ SINK**  
 SCALE: 1 1/2" = 1'-0"



**3 BASE CABINET W/ 3 DRAWERS**  
 SCALE: 1 1/2" = 1'-0"



**7 3FORM PANEL ELEVATION**  
 SCALE: 1/2" = 1'-0"



**8 3FORM PANEL SECTION**  
 SCALE: 1/2" = 1'-0"



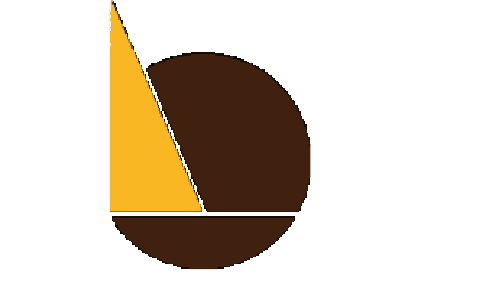


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IEI ARCHITECTS, INC.

428 North 2nd Street  
Philadelphia, PA 19123  
Telephone: 215.413.3700

CONSULTANTS:  
**ARORA**

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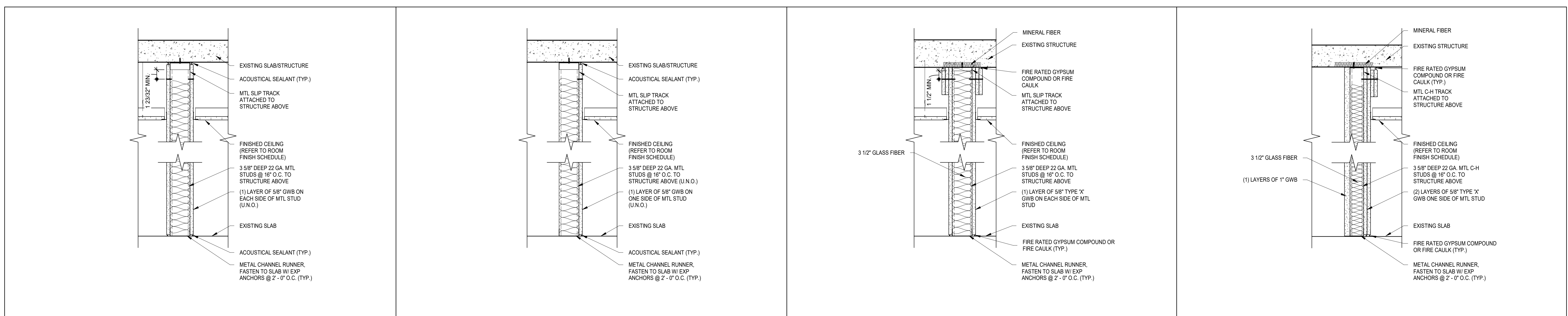
**ISSUED FOR BIDS**  
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ISSUES/REVISIONS:  
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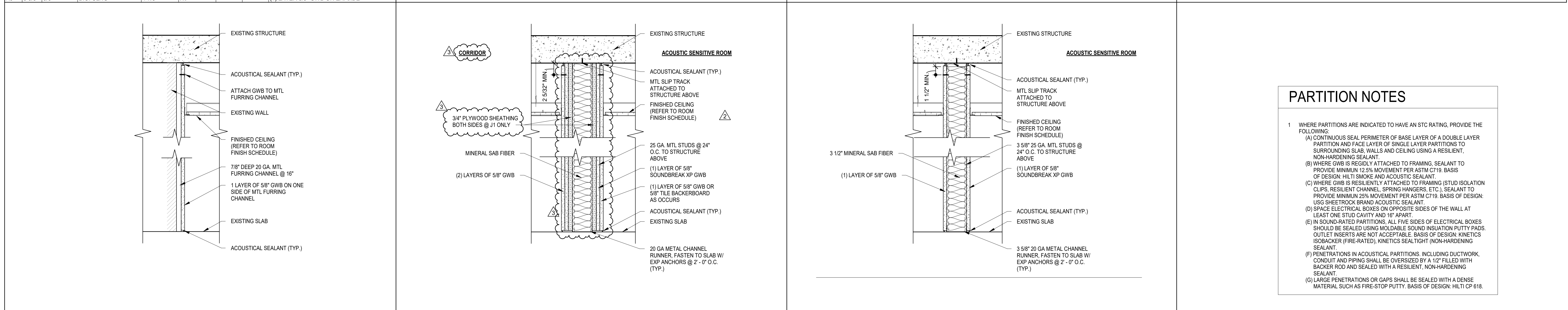
PROJECT NUMBER: 304103-120  
SCALE: As indicated  
DATE: 10/06/2020  
DRAWN BY: SM  
CHECKED BY: PT

DRAWING TITLE:  
**PARTITION & EQUIPMENT SCHEDULES**

SHEET NO.:  
**A-700**



TAG	STUD SIZE	GYP. BD. THICKNESS	GYP. BD. HEIGHT	TOTAL PARTITION THICKNESS	ACOUSTIC INSULATION	Fire Rating	UL DESIGN NO.	COMMENTS
A1	3 5/8"	5/8"	B.O. DECK	4 7/8"	Yes			(1) LAYER 5/8" GWB ON EA. SIDE
A1A	3 5/8"	5/8"	B.O. DECK	4 7/8"	Yes			(1) LAYER 5/8" GWB ONE SIDE; (1) LAYER 5/8" TILE BACKER BOARD OPP. SIDE
A1B	3 5/8"	5/8"	B.O. DECK	4 7/8"	Yes			(1) LAYER 5/8" TILE BACKER BOARD ON EA. SIDE
A4	3 5/8"	5/8"	B.O. DECK	4 7/8"	No			(1) LAYER 5/8" GWB ON EA. SIDE
A5	3 5/8"	5/8"	6" ABV CLNG	4 7/8"	No			(1) LAYER 5/8" GWB ON EA. SIDE
A6	3 5/8"	5/8"	B.O. CLNG	4 7/8"	No			(1) LAYER 5/8" GWB ON EA. SIDE



TAG	STUD SIZE	GYP. BD. THICKNESS	GYP. BD. HEIGHT	TOTAL PARTITION THICKNESS	ACOUSTIC INSULATION	Fire Rating	UL DESIGN NO.	COMMENTS
H1	7/8"	5/8"	B.O. DECK	1 1/2"	No			(1) LAYER 5/8" GWB ONE SIDE
H1A	7/8"	5/8"	B.O. DECK	1 1/2"	No			(1) LAYER 5/8" SOUNDBREAK XP GWB ONE SIDE

**PARTITION NOTES**

- 1 WHERE PARTITIONS ARE INDICATED TO HAVE AN STC RATING, PROVIDE THE FOLLOWING:
  - (A) CONTINUOUS SEAL PERIMETER OF BASE LAYER OF A DOUBLE LAYER PARTITION AND FACE LAYER OF SINGLE LAYER PARTITIONS TO SURROUNDING SLAB, WALLS AND CEILING USING A RESILIENT, NON-HARDENING SEALANT.
  - (B) WHERE GWB IS REGULARLY ATTACHED TO FRAMING, SEALANT TO PROVIDE MINIMUM 12% MOVEMENT PER ASTM C719. BASIS OF DESIGN: HILTI SMOKE AND ACOUSTIC SEALANT.
  - (C) WHERE GWB IS RESILIENTLY ATTACHED TO FRAMING (STUD ISOLATION CLIPS, RESILIENT CHANNEL, SPRING HANGERS, ETC.) SEALANT TO PROVIDE MINIMUM 25% MOVEMENT PER ASTM C719. BASIS OF DESIGN: USG SHEETROCK BRAND ACOUSTIC SEALANT.
  - (D) SPACE ELECTRICAL BOXES ON OPPOSITE SIDES OF THE WALL AT LEAST ONE STUD CAVITY AND 18" APART.
  - (E) IN SOUND-RATED PARTITIONS, ALL FIVE SIDES OF ELECTRICAL BOXES SHOULD BE SEALED USING MOLDABLE SOUND INSULATION PUTTY PADS. OUTLET INSERTS ARE NOT ACCEPTABLE. BASIS OF DESIGN: KINETICS ISOBACKER (FIRE-RATED), KINETICS SEALTIGHT (NON-HARDENING SEALANT).
  - (F) PENETRATIONS IN ACOUSTICAL PARTITIONS, INCLUDING DUCTWORK, CONDUIT AND PIPING SHALL BE OVERSIZED BY 1/2" FILLED WITH BACKER ROD AND SEALED WITH A RESILIENT, NON-HARDENING SEALANT.
  - (G) LARGE PENETRATIONS OR GAPS SHALL BE SEALED WITH A DENSE MATERIAL SUCH AS FIRE-STOP PUTTY. BASIS OF DESIGN: HILTI CP 618.

**MONITOR SCHEDULE**

MARK	ROOM NO.	Room Name	TYPE
M8-01	08-013	DEPUTY DIRECTOR	WALL MTD DISPLAY
M8-02	08-002	OPERATIONS	WALL MTD DISPLAY
M8-03	08-002	OPERATIONS	WALL MTD DISPLAY
M8-04	08-016	SMALL CONFERENCE ROOM	WALL MTD DISPLAY
M8-05	08-017	G.I.S. MAPPING ROOM	WALL MTD DISPLAY
M8-06	08-018	DEPUTY DIRECTOR	WALL MTD DISPLAY
M8-07	08-019	PUBLIC ENGAGEMENT	WALL MTD DISPLAY
M8-08	08-020	SHARED BREAKROOM	WALL MTD DISPLAY
M8-09	08-021	DIRECTOR / FIRE COMMISSIONER	WALL MTD DISPLAY
M8-10	08-022	LARGE CONFERENCE	WALL MTD DISPLAY
M8-11	08-022	LARGE CONFERENCE	WALL MTD DISPLAY
M8-12	08-023	PLANNING	WALL MTD DISPLAY
M8-13	08-023	PLANNING	WALL MTD DISPLAY
M8-14	08-023	PLANNING	WALL MTD DISPLAY
M8-15	08-024	DEPUTY DIRECTOR	WALL MTD DISPLAY
M8-16	08-011	COLLABORATION	WALL MTD DISPLAY
M8-01	09-002	EMERGENCY OPERATIONS CENTER	SMALL CINEMASSIVE DISPLAY
M8-02	09-002	EMERGENCY OPERATIONS CENTER	LARGE CINEMASSIVE DISPLAY
M8-03	09-002	EMERGENCY OPERATIONS CENTER	SMALL CINEMASSIVE DISPLAY
M8-04	09-012	PANTRY	WALL MTD DISPLAY
M8-05	09-013	LOGISTICS CENTER	WALL MTD DISPLAY
M8-06	09-013	LOGISTICS CENTER	WALL MTD DISPLAY
M8-07	09-015	JOINT INFORMATION CENTER	WALL MTD DISPLAY
M8-08	09-015	JOINT INFORMATION CENTER	WALL MTD DISPLAY
M8-09	09-015	JOINT INFORMATION CENTER	WALL MTD DISPLAY
M8-10	09-016	SITUATION ROOM	WALL MTD DISPLAY
M8-11	09-016	SITUATION ROOM	WALL MTD DISPLAY
M8-12	09-016	SITUATION ROOM	WALL MTD DISPLAY
M8-13	09-016	SITUATION ROOM	WALL MTD DISPLAY
M8-14	09-017	REGIONAL INTEGRATION CENTER	WALL MTD DISPLAY
M8-15	09-011	QUIET ROOM	WALL MTD DISPLAY
M10-01	10-013	IT REPAIR / TECH STORAGE	WALL MTD DISPLAY
M10-02	10-014	MULTI-FUNCTION ROOM "A"	WALL MTD DISPLAY
M10-02A	10-014	MULTI-FUNCTION ROOM "A"	WALL MTD DISPLAY
M10-03	10-015	MULTI-FUNCTION ROOM "B"	WALL MTD DISPLAY
M10-03A	10-015	MULTI-FUNCTION ROOM "B"	WALL MTD DISPLAY
M10-04	10-016	DINING	WALL MTD DISPLAY
M10-05	10-023	GREEN ROOM	WALL MTD DISPLAY



DOOR SCHEDULE - 08

NUMBER	WIDTH	HEIGHT	DOOR		MATERIAL	FINISH	GLAZING	FRAME			DETAILS			FIRE RATING	HARDWARE	REMARKS
			TYPE	TYPE				MATERIAL	FINISH	HEAD	JAMB	SILL				
08-006.1	(2) 3'-0"	7'-0"	FF	WD	WD	FACT	-	A	HM	PT	H1	J1	-	45 MIN	0001	SEE NOTE #4
08-011.1	3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	-	0005	
08-012.1	3'-0"	7'-0"	F	WD	WD	FACT	-	A	HM	PT	H1	J1	-	0006		
08-013.1	3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0002		
08-016.1	3'-0"	7'-0"	A	HM	WD	FACT	GL-2	A	HM	PT	H2	J2	-	0035	SEE NOTE #6	
08-017.1	3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0004		
08-018.1	3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0032		
08-021.1	3'-0"	7'-0"	A	HM	WD	FACT	GL-2	A	HM	PT	H2	J2	-	0003	SEE NOTE #7	
08-022.1	3'-0"	7'-0"	A	HM	WD	FACT	GL-2	A	HM	PT	H2	J2	-	0033	SEE NOTE #7	
08-024.1	3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0002		
08-025.1	3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0006		

DOOR SCHEDULE - 09

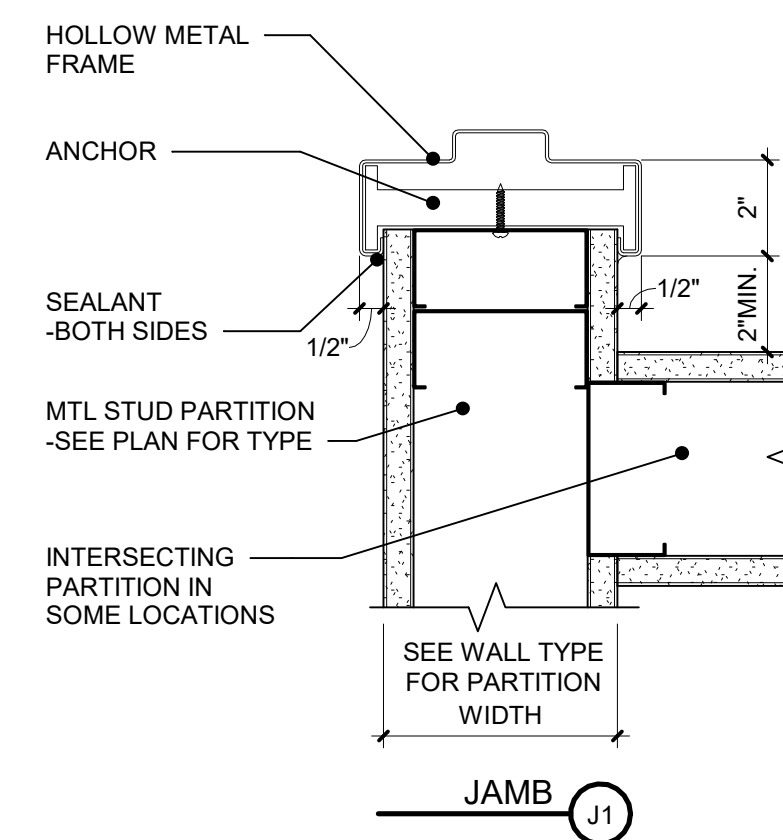
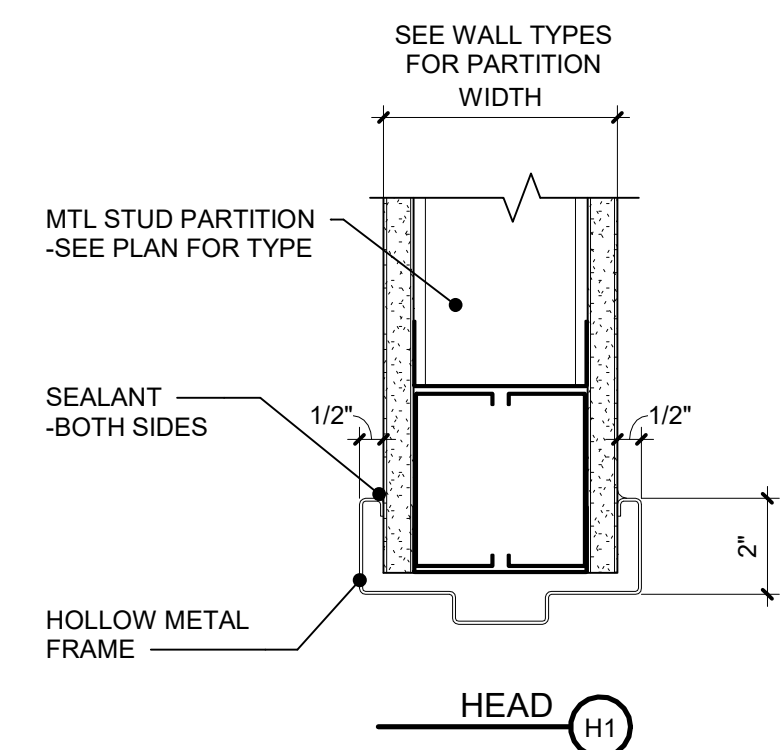
NUMBER	WIDTH	HEIGHT	DOOR		MATERIAL	FINISH	GLAZING	FRAME			DETAILS			FIRE RATING	HARDWARE	REMARKS
			TYPE	TYPE				MATERIAL	FINISH	HEAD	JAMB	SILL				
09-002.1	3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0007	SEE NOTE #4	
09-002.2	1'-6" & 3'-0"	7'-0"	AA	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0008	SEE NOTE #4	
09-006.1	(2) 3'-0"	7'-0"	FF	WD	WD	FACT	-	A	HM	PT	H1	J1	-	45 MIN	0001	SEE NOTE #4
09-011.1	3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0005		
09-012.1	3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0016		
09-013.1	3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0009	SEE NOTE #4	
09-013.2	3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0010		
09-015.1	3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0011	SEE NOTE #4	
09-015.2	3'-0"	7'-0"	A	HM	WD	FACT	GL-2	A	HM	PT	H2	J2	-	0014	SEE NOTE #8	
09-016.1	3'-0"	7'-0"	A	HM	WD	FACT	GL-2	A	HM	PT	H2	J2	-	0012	SEE NOTE #4 & #7	
09-016.2	3'-0"	7'-0"	A	HM	WD	FACT	GL-2	A	HM	PT	H2	J2	-	0012	SEE NOTE #4 & #7	
09-017.1	3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0013	SEE NOTE #4	
09-017.2	3'-0"	7'-0"	A	HM	WD	FACT	GL-2	A	HM	PT	H2	J2	-	0015	SEE NOTE #8	

DOOR SCHEDULE - 10

NUMBER	WIDTH	HEIGHT	DOOR		MATERIAL	FINISH	GLAZING	FRAME			DETAILS			FIRE RATING	HARDWARE	REMARKS
			TYPE	TYPE				MATERIAL	FINISH	HEAD	JAMB	SILL				
10-008.1	(2) 3'-0"	7'-0"	FF	WD	WD	FACT	-	A	HM	PT	H1	J1	-	45 MIN	0001	SEE NOTE #4
10-012.1	1'-6" & 3'-0"	7'-0"	FF	WD	WD	FACT	-	A	HM	PT	H1	J1	-	-	0017	SEE NOTE #4
10-012.2	3'-0"	7'-0"	F	WD	WD	FACT	-	A	HM	PT	H1	J1	-	-	0034	
10-013.1	1'-6" & 3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	HM	PT	H1	J1	-	-	0018	SEE NOTE #4
10-014.1	3'-0"	7'-0"	A	HM	WD	FACT	GL-2	A	HM	PT	H2	J2	-	-	0019	SEE NOTE #8
10-015.1	3'-0"	7'-0"	A	HM	WD	FACT	GL-2	A	HM	PT	H2	J2	-	-	0023	SEE NOTE #8
10-016.1	(2) 3'-0"	7'-0"	AA	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0023		
10-018.1	(2) 3'-0"	7'-0"	AA	WD	WD	FACT	GL-1	-	WD	PT	-	-	-	0020	POCKET DOORS	
10-020.1	3'-0"	7'-0"	F	WD	WD	FACT	-	A	HM	PT	H1	J1	-	-	0021	
10-021.1	(2) 3'-0"	7'-0"	FF	WD	WD	FACT	-	A	HM	PT	H1	J1	-	-	0022	SEE NOTE #4
10-022.1	3'-0"	7'-0"	F	WD	WD	FACT	-	A	HM	PT	H1	J1	-	-	0030	
10-023.1	3'-0"	7'-0"	A	WD	WD	FACT	GL-1	A	ALUM	FACT	-	-	-	0024		
10-025.1	3'-0"	7'-0"	F	WD	WD	FACT	-	A	HM	PT	H1	J1	-	-	0025	
10-026.1	3'-0"	7'-0"	F	WD	WD	FACT	-	A	HM	PT	H1	J1	-	-	0025	
10-029.1	3'-0"	7'-0"	F	WD	WD	FACT	-	A	HM	PT	H1	J1	-	-	0026	
10-030.1	3'-0"	7'-0"	F	WD	WD	FACT	-	A	HM	PT	H1	J1	-	-	0026	
10-031.1	3'-0"	7'-0"	F	HM	WD	FACT	-	A	HM	PT	H1	J2	-	-	0027	SEE NOTE #8
10-031.2	3'-0"	7'-0"	F	HM	WD	FACT	-	A	HM	PT	H1	J2	-	-	0028	SEE NOTE #8
10-032.1	3'-0"	7'-0"	F	WD	WD	FACT	-	A	HM	PT	H1	J1	-	-	0029	

DOOR SCHEDULE - 12

NUMBER	WIDTH	HEIGHT	DOOR		MATERIAL	FINISH	GLAZING	FRAME			DETAILS			FIRE RATING	HARDWARE	REMARKS
			TYPE	TYPE				MATERIAL	FINISH	HEAD	JAMB	SILL				
12-002.1	3'-0"	7'-0"	F	WD	WD	FACT	-	A	HM	PT	H1	J1	-	-	0031	



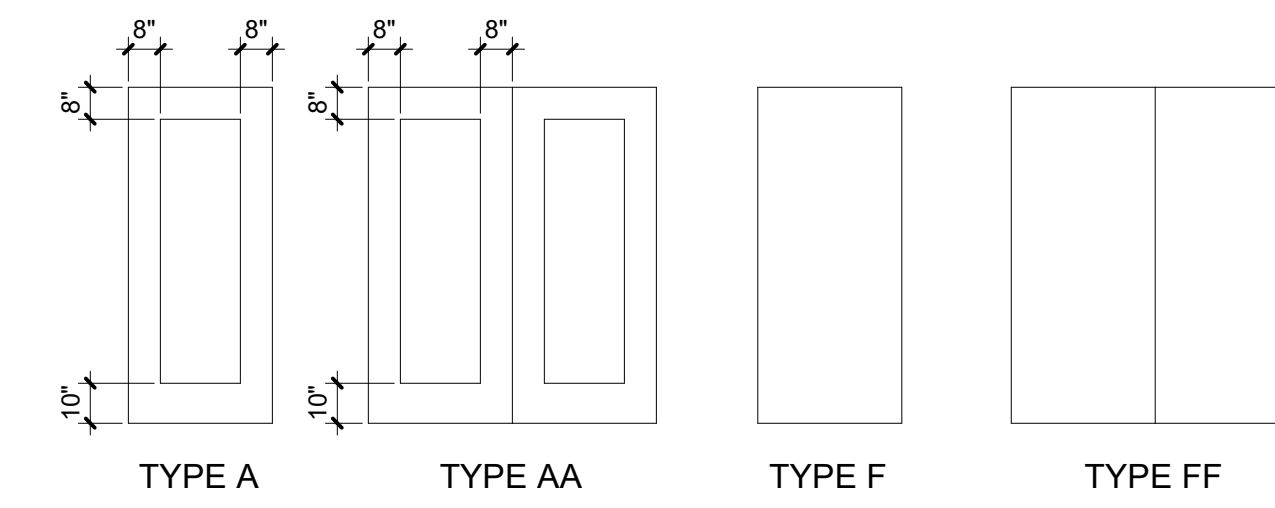
3 DOOR HEAD/JAMB DETAIL  
SCALE: 3" = 1'-0"

DOOR SCHEDULE NOTES

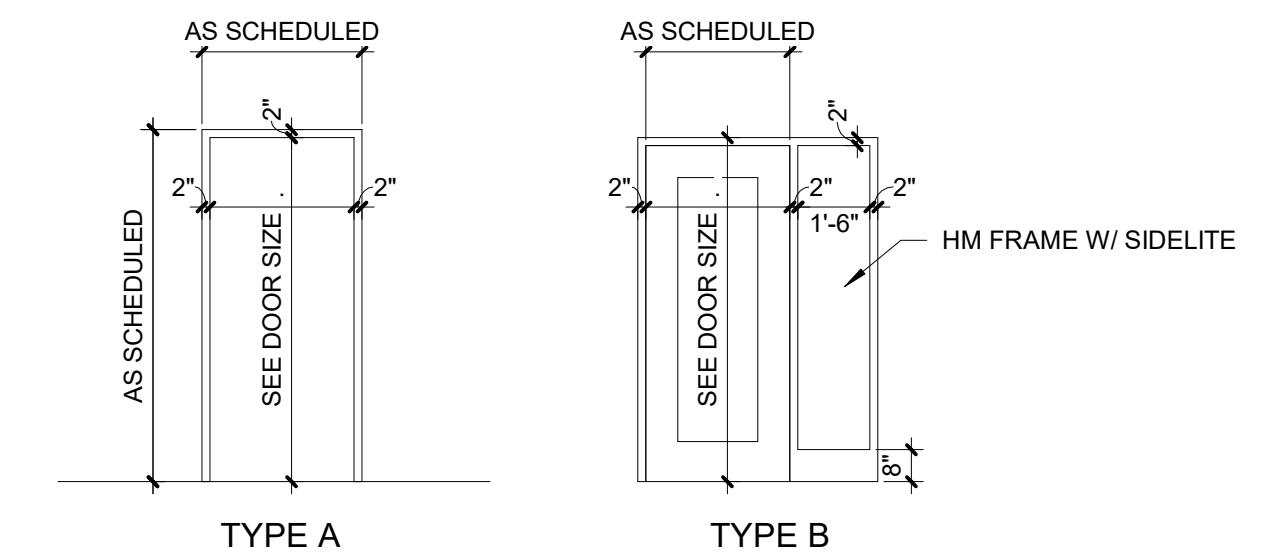
- 1 ALL NEW DOORS AND FRAMES TO MATCH BUILDING STANDARD UNLESS NOTED OTHERWISE.
- 2 ALL HARDWARE TO BE ADA COMPLIANT PER APPLICABLE CODES.
- 3 EACH DOOR TO RECEIVE THREE (3) SILENCERS EACH.
- 4 PROVIDE CARD READER WHERE NOTED ON PLANS.
- 5 (NOT USED)
- 6 STC 45 ACOUSTIC RATED DOOR.
- 7 STC 52 ACOUSTIC RATED DOOR - MATCH ACOUSTIC WINDOW FRAME THICKNESS.
- 8 STC 52 ACOUSTIC RATED DOOR - MATCH ACOUSTIC WINDOW FRAME THICKNESS.
- 9 SEE SPEC SECTION 08 34 73 FOR ADDITIONAL ACOUSTIC RATED DOOR, FRAME & HARDWARE INFO.

DOOR SCHEDULE LEGEND

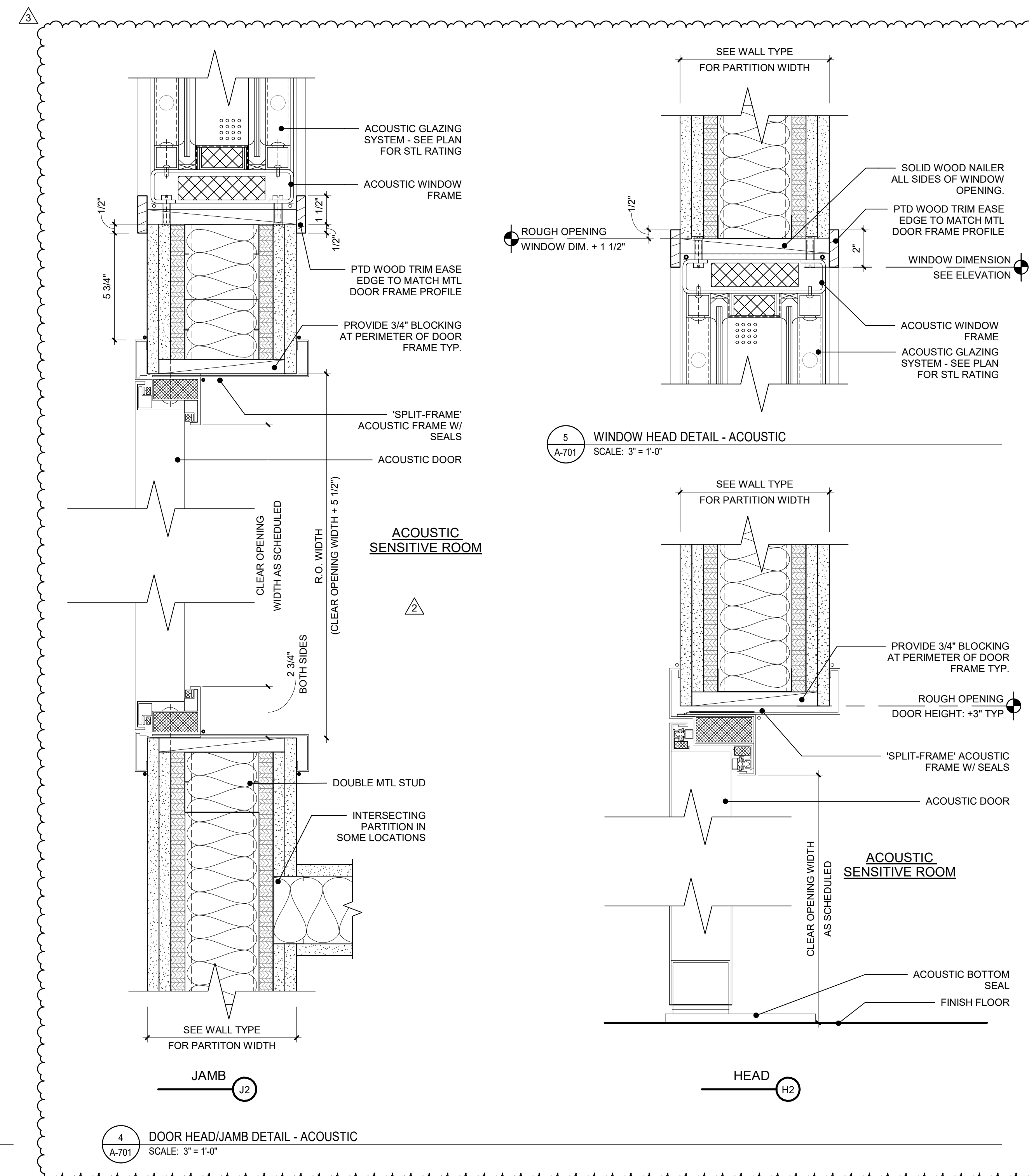
- MATERIAL**
- HM HOLLOW METAL
  - WD WOOD VENEER
  - TEMP TEMPERED GLASS
  - ALUM ALUMINUM
- FINISH**
- FACT FACTORY FINISH
  - PAINT PAINT
- GLAZING**
- GL-1 1/4" TEMPERED GLASS
  - GL-2 ACOUSTICAL GLASS, SEE SPEC SECTION 08 34 73



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



2 FRAME ELEVATIONS  
SCALE: 1/4" = 1'-0"



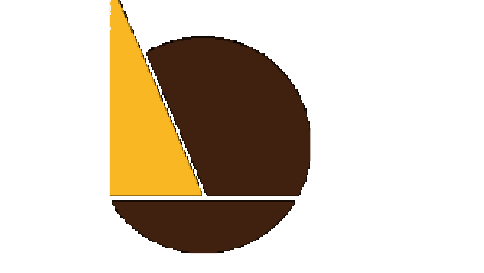
4 DOOR HEAD/JAMB DETAIL - ACOUSTIC  
SCALE: 3" = 1'-0"



IEI GROUP, LTD.  
IEI ARCHITECTS, INC.  
428 North 2nd Street  
Philadelphia, PA 19123  
Telephone: 215 413 3700



Arora Engineers, Inc.  
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PROJECT TITLE  
THE CITY OF PHILADELPHIA  
OFFICE OF EMERGENCY MANAGEMENT  
PHILADELPHIA PUBLIC SERVICES BUILDING  
400 NORTH BROAD STREET, PHILADELPHIA, PA 19130  
FLOORS 8, 9 AND 10

- PROGRESS SET
- CLIENT REVIEW
- BID SET
- CODE REVIEW SET
- ISSUED FOR CONSTRUCTION

ISSUED FOR BIDS  
09/18/2020  
(NOT FOR CONSTRUCTION)

- ISSUES/REVISIONS:
- 1 9/18/2020 ISSUED FOR BIDS
  - 2 10/15/2020 ADDENDUM NO. 1
  - 3 11/02/2020 ADDENDUM NO. 3

PROJECT NUMBER: 304103-120  
SCALE: As indicated  
DATE: 10/06/2020  
DRAWN BY: SM  
CHECKED BY: PT

DRAWING TITLE:  
DOOR SCHEDULE

SHEET NO:  
A-701



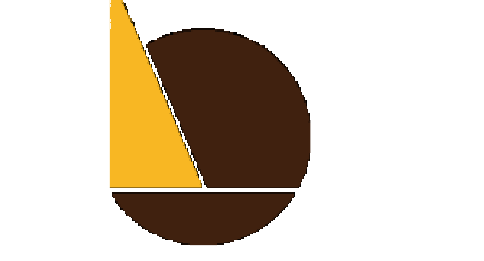


IEI GROUP, LTD.  
IEI ARCHITECTS, INC.

428 North 2nd Street  
Philadelphia, PA 19123  
Telephone: 215 413 3700

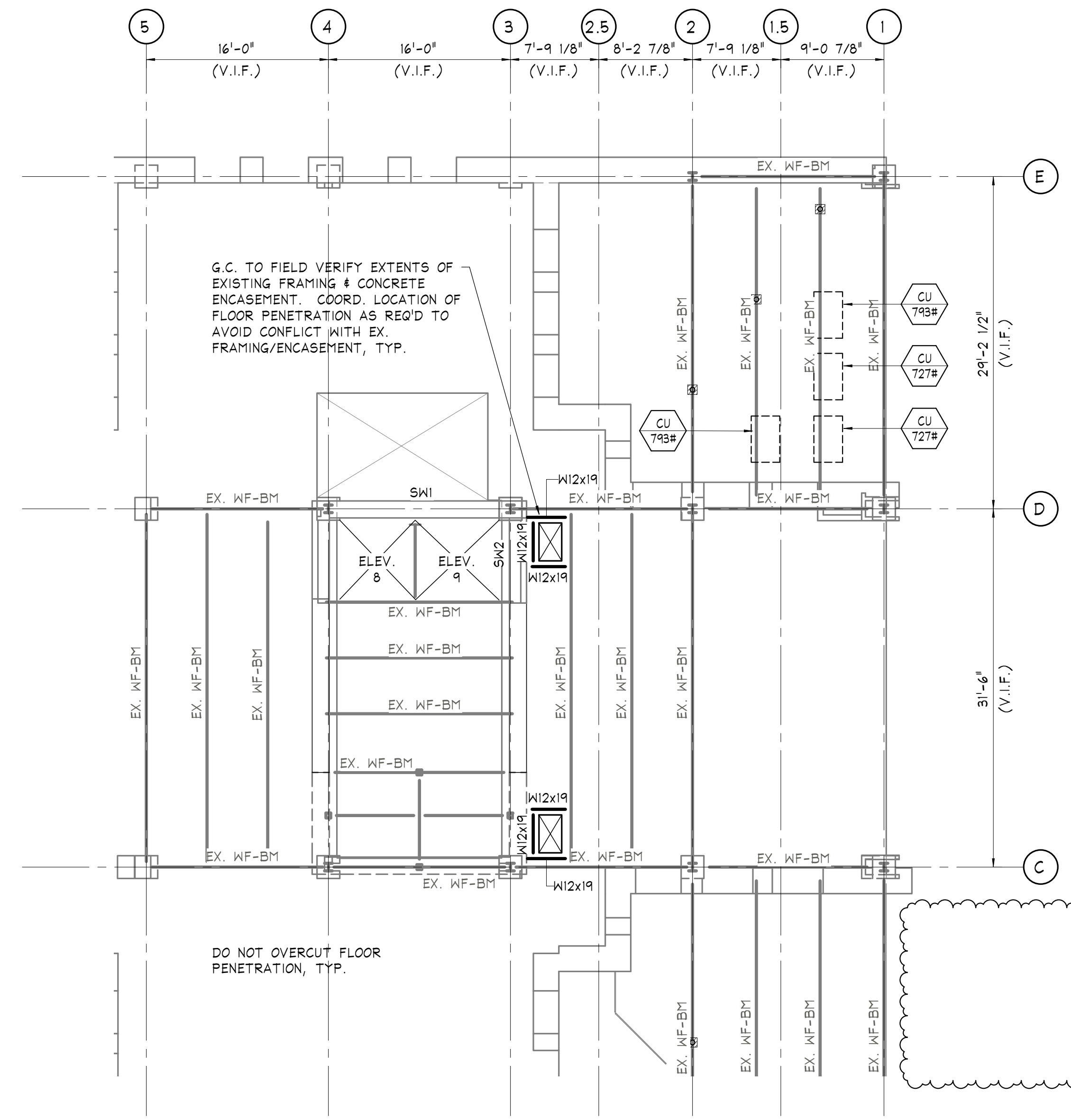


Arora Engineers, Inc.  
61 Wilmington-West Chester Pike  
Chadds Ford, PA 19317  
P (610) 459-7900  
F (610) 459-7950  
aroraengineers.com



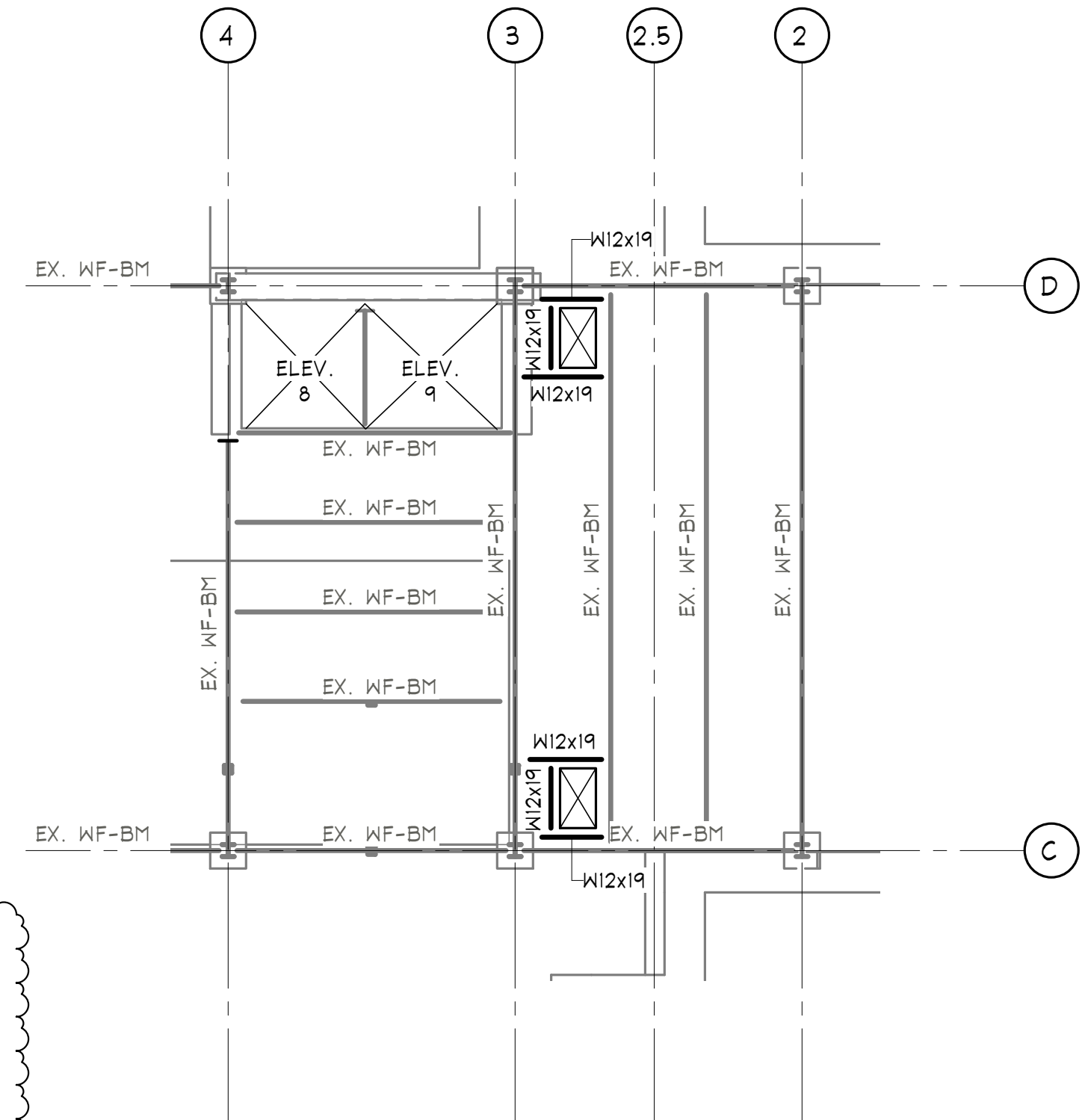
O'Donnell & Naccarato  
701 Market Street, Suite 6000  
Philadelphia, PA 19106  
PH: 215.925.3788  
www.o-n.com  
3005.0009.00

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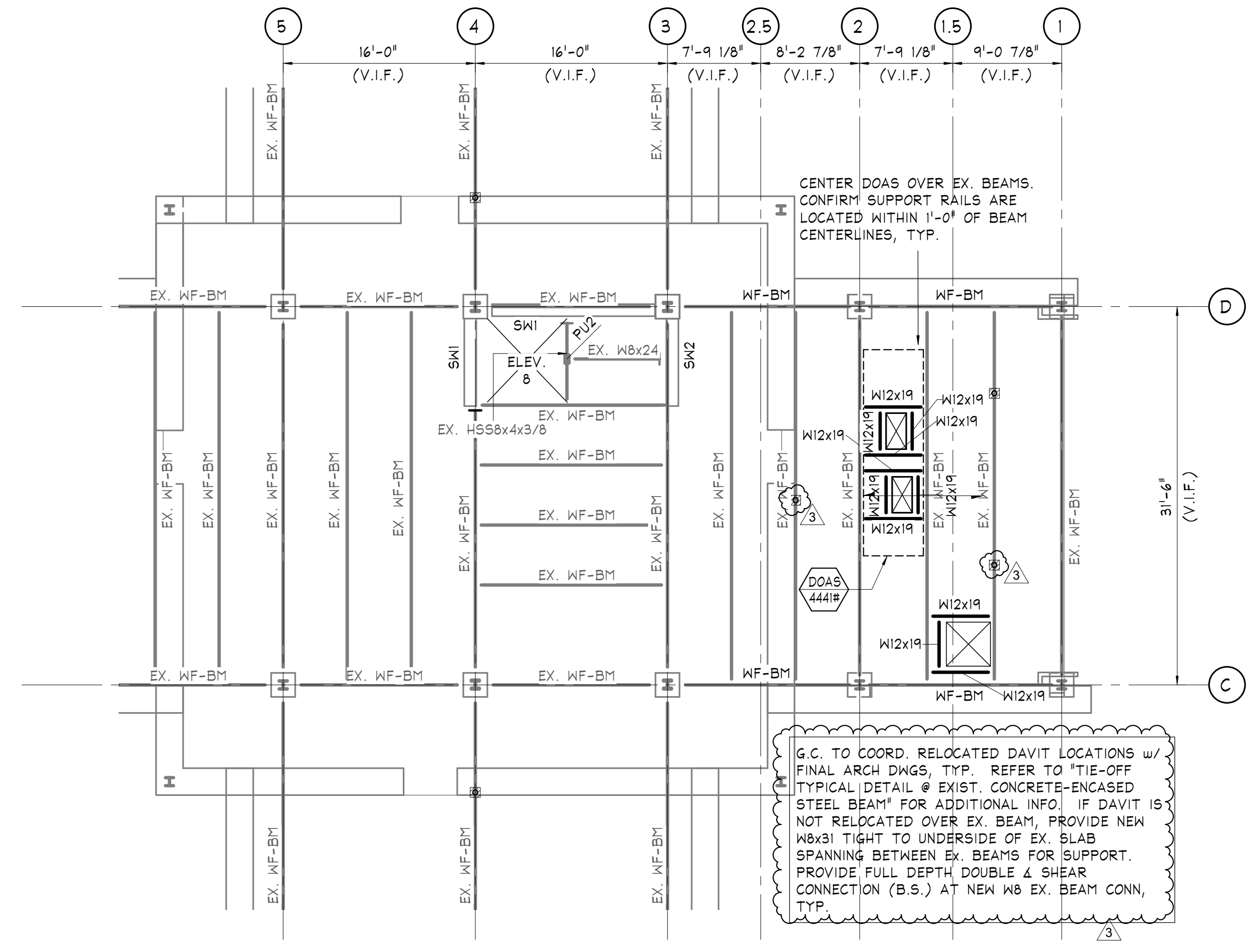
**TWELFTH FLOOR FRAMING PLAN EAST**

- SCALE: 1/8" = 1'-0"  
NOTES:
- 1) TOP OF SLAB ELEVATION +150'-7" (V.I.F.), FROM DATUM ELEVATION 0'-0", UNLESS NOTED OTHERWISE.
  - 2) TOP OF STEEL (DECK BEARING) EL.; REFER TO TYPICAL DETAILS ON S-400, UNLESS NOTED OTHERWISE.
  - 3) REFER TO ARCH. DWGS FOR ALL FLOOR PENETRATION LOCATIONS & DIMENSIONS, TYP. DO NOT OVERCUT NEW OPENINGS IN EXISTING SLABS.
  - 4) ALL BEAM/GIRDER CONNECTIONS NOT CONNECTED TO COLUMNS SHALL BE DESIGNED FOR A MINIMUM UNFACTORED VERTICAL REACTION OF 15 KIIPS, UNLESS NOTED GREATER. CONNECTIONS TO COLUMNS TO BE PER GENERAL NOTES. ALL REACTIONS SHOWN ON PLAN ARE SERVICE LOADS.
  - 5) G.C. TO PROVIDE SHORING AS REQUIRED.



**THIRTEENTH FLOOR FRAMING PLAN EAST**

- SCALE: 1/8" = 1'-0"  
NOTES:
- 1) TOP OF SLAB ELEVATION +163'-1" (V.I.F.), FROM DATUM ELEVATION 0'-0", UNLESS NOTED OTHERWISE.
  - 2) TOP OF STEEL (DECK BEARING) EL.; REFER TO TYPICAL DETAILS ON S-400, UNLESS NOTED OTHERWISE.
  - 3) REFER TO ARCH. DWGS FOR ALL FLOOR PENETRATION LOCATIONS & DIMENSIONS, TYP. DO NOT OVERCUT NEW OPENINGS IN EXISTING SLABS.
  - 4) ALL BEAM/GIRDER CONNECTIONS NOT CONNECTED TO COLUMNS SHALL BE DESIGNED FOR A MINIMUM UNFACTORED VERTICAL REACTION OF 15 KIIPS, UNLESS NOTED GREATER. CONNECTIONS TO COLUMNS TO BE PER GENERAL NOTES. ALL REACTIONS SHOWN ON PLAN ARE SERVICE LOADS.
  - 5) G.C. TO PROVIDE SHORING AS REQUIRED.



**FOURTEENTH FLOOR FRAMING PLAN EAST**

- SCALE: 1/8" = 1'-0"  
NOTES:
- 1) TOP OF SLAB ELEVATION +175'-7" (V.I.F.), FROM DATUM ELEVATION 0'-0", UNLESS NOTED OTHERWISE.
  - 2) TOP OF STEEL (DECK BEARING) EL.; REFER TO TYPICAL DETAILS ON S-400, UNLESS NOTED OTHERWISE.
  - 3) REFER TO ARCH. DWGS FOR ALL FLOOR PENETRATION LOCATIONS & DIMENSIONS, TYP. DO NOT OVERCUT NEW OPENINGS IN EXISTING SLABS.
  - 4) ALL BEAM/GIRDER CONNECTIONS NOT CONNECTED TO COLUMNS SHALL BE DESIGNED FOR A MINIMUM UNFACTORED VERTICAL REACTION OF 15 KIIPS, UNLESS NOTED GREATER. CONNECTIONS TO COLUMNS TO BE PER GENERAL NOTES. ALL REACTIONS SHOWN ON PLAN ARE SERVICE LOADS.
  - 5) G.C. TO PROVIDE SHORING AS REQUIRED.
- 6) G.C. TO COORDINATE FINAL DAVIT LOCATIONS w/ ARCH. & DAVIT ENGINEER. SUBMIT PROPOSED DAVIT LOCATIONS TO E.O.R. FOR FINAL REVIEW. PROVIDE ALLOWANCE FOR SUPPLEMENTAL FRAMING AS REQUIRED PER STRUCTURAL DETAILS.

PROJECT TITLE:  
**400 N. BROAD PARTNERS, L.P.**  
**400 NORTH BROAD STREET PHILADELPHIA, PA**

- PROGRESS SET
- CLIENT REVIEW
- BID SET
- CODE REVIEW SET
- ISSUED FOR CONSTRUCTION

**ISSUED FOR BIDS**  
**9/18/2020**  
(NOT FOR CONSTRUCTION)

ISSUES/REVISIONS:  
1 09/18/20 ISSUED FOR BID  
2 10/15/20 ADDENDUM NO. 1  
3 11/02/20 ADDENDUM NO. 3

PROJECT NUMBER: 304103-120  
SCALE: As indicated  
DATE: 09/18/2020  
DRAWN BY: CH  
CHECKED BY: JJD

DRAWING TITLE:  
**PARTIAL FRAMING PLANS**

SHEET NO.:  
**S-102**









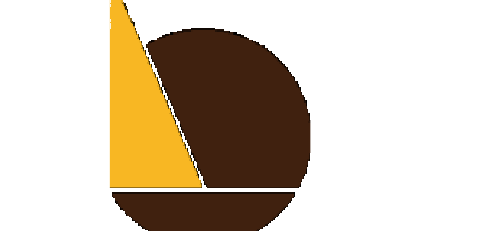
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CONSULTANTS:



Arora Engineers, Inc.  
61 Wilmington-West Chester Pike  
Chadds Ford, PA 19317  
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F (610) 459-7950  
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PROJECT TITLE:  
400 N. BROAD PARTNERS, L.P.  
400 NORTH BROAD STREET PHILADELPHIA, PA

- PROGRESS SET
- CLIENT REVIEW
- BID SET
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PROJECT NUMBER: 304103-120  
SCALE: As indicated  
DATE: 09/18/2020  
DRAWN BY: CH  
CHECKED BY: JDD

DRAWING TITLE:  
GENERAL NOTES &  
SCHEDULES

SHEET NO.

S-201

TYPICAL ABBREVIATIONS

A.B.	ANCHOR BOLT	L.P.	LOW POINT
A.F.F.	ABOVE FINISH FLOOR	L.W.	LIGHT WEIGHT
ADDL.	ADDITIONAL	LLH	LONG LEG HORIZONTAL
ALT.	ALTERNATE	LLV	LONG LEG VERTICAL
ARCH.	ARCHITECT	LWB	LONG WAY BOTTOM
B.C.E.	BOTTOM CHORD EXTENSION	M.E.P.	MECHANICAL ELECTRICAL PLUMBING
B.O.	BOTTOM OF	M.S.T.	METAL STUD TRUSS
BLDG.	BUILDING	MAX.	MAXIMUM
BM.	BEAM	MECH.	MECHANICAL
BOTT.	BOTTOM	MEZZ.	MEZZANINE
BRG.	BEARING	MFR.	MANUFACTURER
BSMT.	BASEMENT	MIN	MINIMUM
BP_	BEARING PLATE	MISC.	MISCELLANEOUS
BWN.	BETWEEN	MP_	MASONRY PIER
C	CENTERLINE	NBL	NON BEARING LINTEL
CANT.	CANTILEVER	N.T.S.	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	N.W.	NORMAL WEIGHT
COL.	COLUMN	o/c	ON CENTER
CONC.	CONCRETE	P.A.F.	POWDER ACTUATED FASTENER
CONN.	CONNECTION	P	PLATE
CONT.	CONTINUOUS	PC	PILE CAP
CTRD.	CENTERED	P/C	PRECAST
D	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DWG.	DRAWING	PSI	POUNDS PER SQUARE INCH
E.F.	EACH FACE	PTN.	PARTITION
E.O.D.	EDGE OF DECK	REIN.	REINFORCEMENT
E.O.S.	EDGE OF SLAB	REQ'D.	REQUIRED
E.W.	EACH WAY	RET.G.	RETAINING
EA.	EACH	S.F.	STEP FOOTING
EL.	ELEVATION	S.O.G.	SLAB ON GRADE
ELEV.	ELEVATOR	SCHED.	SCHEDULE
EMBED.	EMBEDMENT	SECT.	SECTION
EQ.	EQUAL	SIM.	SIMILAR
EQUIP.	EQUIPMENT	SPECS.	SPECIFICATIONS
EWB	EACH WAY BOTTOM	STIFF.	STIFFENER
ENT	EACH WAY TOP	STRUCT.	STRUCTURAL
EX.	EXISTING	SWB	SHORT WAY BOTTOM
EXIST.	EXISTING	TWB	TOP AND BOTTOM
EXP.	EXPANSION	T.	TOP
EXT.	EXTERIOR	T.O.	TOP OF
FDN.	FOUNDATION	T.O.C.	TOP OF CONCRETE
FIN.	FINISH	T.O.S.	TOP OF STEEL
FLR.	FLOOR	T.S.	THICKENED SLAB
FT.	FEET	TCELE	TOP CHORD EXTENSION LEFT END
FTG.	FOOTING	TCERE	TOP CHORD EXTENSION RIGHT END
G.A.	GAGE	TDS	TURN DOWN SLAB
GALV.	GALVANIZED	THK.	THICK OR THICKENED
GBL_	GRADE BEAM	TYP.	TYPICAL
H.P.	HIGH POINT	U.N.O.	UNLESS NOTED OTHERWISE
HORIZ.	HORIZONTAL	V.I.F.	VERIFY IN FIELD
I.F.	INSIDE FACE	VERT.	VERTICAL
IN.	INCHES	W.R.T.	WOOD ROOF TRUSS
INFO.	INFORMATION	w/	WITH
INT.	INTERIOR	WC	WET COLUMN
JT.	JOINT	WP	WALL PLATE
k	KIP	WKF	WELDED WIRE FABRIC
k-ft	KIP-FEET		

LATERAL LOAD DESIGN SCHEDULE  
INTERNATIONAL BUILDING CODE 2018/ASCE 7-16

ITEM	WIND LOAD		
	SYMBOL	VALUE	REFERENCE
BASIC WIND SPEED (3 SEC GUST)	V	90	FIGURE 1609
WIND LOAD IMPORTANCE FACTOR	I <sub>w</sub>	1.15	TABLE B-1
WIND EXPOSURE CATEGORY	-	B	SECTION 1609.4.3
ITEM	SEISMIC LOAD		
	SYMBOL	VALUE	REFERENCE
IMPORTANCE FACTOR	I <sub>e</sub>	1.50	TABLE 11.5-1
SHORT PERIOD SPECTRAL ACCELERATION	S <sub>DS</sub>	0.180g	SECTION 1013.2.4
(1) SECOND PERIOD SPECTRAL ACCELERATION	S <sub>D1</sub>	0.040g	SECTION 1013.2.4
OCCUPANCY CATEGORY	-	IV	TABLE 1604.5
SEISMIC DESIGN CATEGORY	-	C	TABLE 1613.2.6
SITE CLASSIFICATION	-	B	TABLE 1613.2.2
SEISMIC FORCE-RESISTING SYSTEM	-	**	TABLE 1621.2
RESPONSE MODIFICATION COEFFICIENT	R	3	TABLE 12.2-1
DEFLECTION AMPLIFICATION FACTOR	C <sub>d</sub>	3	TABLE 12.2-1

- (1) SECOND PERIOD SPECTRAL ACCELERATION
- \*\* INDICATES ORDINARY REINFORCED CONCRETE SHEAR WALLS & STEEL SYSTEM NOT SPECIFICALLY DETAILED

GENERAL CONSTRUCTION

- NOTES, TYPICAL DETAILS, AND SCHEDULES APPLY TO ALL STRUCTURAL WORK UNLESS NOTED OTHERWISE. TYPICAL DETAILS ARE TO BE USED FOR ALL CONDITIONS UNLESS THE DETAILS ARE APPLICABLE. WHEN EITHER IS NOTED OR SHOWN, TYPICAL DETAILS MAY BE SLIGHTLY ALTERED IF REQUIRED DUE TO PROJECT CONDITIONS, ONLY WHEN SUBMITTED AND THE ENGINEER'S APPROVAL IS OBTAINED PERFORMING THE WORK.
- ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS, WITH THE EXCEPTION OF STRUCTURAL MEMBER SIZES, ARE GENERATED BY OTHER DISCIPLINES. ANY DIMENSIONS OR ELEVATIONS OMITTED OR NOT SHOWN ON THE STRUCTURAL DRAWINGS SHOULD BE OBTAINED FROM THE DRAWINGS OF THE OTHER DISCIPLINES. STRUCTURAL DRAWINGS ARE NOT "STAND ALONE" DOCUMENTS AND SHOULD BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE SPECIFICATIONS, ARCHITECTURAL DRAWINGS AND ALL OTHER DISCIPLINE'S DRAWINGS. THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER AND ARCHITECT PRIOR TO PERFORMING THE WORK.
- IF DIFFERENCES OCCUR WITHIN OR BETWEEN DRAWINGS AND SPECIFICATIONS REGARDING MATERIALS, STRENGTHS OR QUANTITIES, THE BETTER MATERIAL, HIGHER STRENGTH, AND GREATER QUANTITY INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED.
- REPRODUCTIONS OF STRUCTURAL DRAWINGS FOR SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED, UNLESS WRITTEN APPROVAL IS REQUESTED BY THE CONTRACTOR AND IT IS GRANTED BY O'DONNELL & NACCARATO, INC.
- DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION.
- THESE DRAWINGS DO NOT DEFINE SCOPE OF CONTRACTOR OR SUBCONTRACTOR CONTRACTS.
- AT ALL TIMES, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING MEANS AND METHODS OF CONSTRUCTION AND SAFETY OF PERSONS AND PROPERTY. THE ENGINEER'S REVIEW OR REVIEW OF WORK IS FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT ONLY AND IS NOT INTENDED TO BE CONSTRUED AS A REVIEW OF MEANS AND METHODS OF CONSTRUCTION AND SAFETY METHODS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ALLOWABLE CONSTRUCTION LOADS AND FOR PROTECTING THE COMPLETED OR INCOMPLETE STRUCTURAL FRAMING FROM DAMAGE DUE TO TEMPORARY CONSTRUCTION LOADINGS.
- COSTS OF INVESTIGATION AND/OR REDESIGN DUE TO CONTRACTOR ERRORS WILL BE AT THE CONTRACTOR'S EXPENSE.
- ANY APPROVED CONTRACTOR REQUESTED CHANGES TO THESE DRAWINGS WILL BE DONE AT NO COST TO THE OWNER. APPROVAL OF CONTRACTOR REQUESTED CHANGES IN NO WAY STATES OR IMPLIES APPROVAL OF A CHANGE IN SCOPE OR CHANGE IN CONTRACT COST.
- UNLESS EXPLICITLY NOTED AS "ISSUED FOR BID", THESE DRAWINGS ARE NOT SUITABLE FOR OBTAINING BIDS FROM GENERAL OR SUBCONTRACTORS. BIDDING OR DRAWINGS PRIOR TO DESIGN COMPLETION AND "ISSUED FOR BID" IS DONE AT THE SOLE RISK OF THE BIDDING CONTRACTOR. ADDITIONS OR CORRECTIONS TO DRAWINGS THAT ARE BID PRIOR TO DESIGN COMPLETION AND "ISSUED FOR BID" WILL NOT BE CONSIDERED AS DESIGN ERRORS OR OMISSIONS. STRUCTURAL DESIGN BY NATURE, CANNOT BE COMPLETE PRIOR TO COMPLETION OF ARCHITECTURAL AND MECHANICAL DRAWINGS.
- ALL REFERENCES TO WATERDAMP-PROOFING, FIRE-PROOFING, AND UTILITIES ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS FOR ALL WATERDAMP-PROOFING, FIRE-PROOFING AND UTILITY DETAILS AND REQUIREMENTS. COORDINATE ALL UNDERGROUND UTILITY REQUIREMENTS WITH THE CIVIL/MEP DRAWINGS. ALL UTILITIES SHALL BE ABOVE-GROUND FOOTINGS AND NOT LOCATED WITHIN THE FOOTINGS. NOTIFY ENGINEER OF RECORD IF OTHERWISE.
- IF THE EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY. THE CONTRACTOR MUST PROVIDE A SCHEDULE OF THE CONDITION WITH HIS PROPOSED MODIFICATION OF THE DETAILS SHOWN ON THE CONTRACT DOCUMENTS. THIS SCHEDULE MUST BE SUBMITTED TO AND APPROVAL MUST BE GRANTED BY THE ENGINEER PRIOR TO PERFORMING THE WORK.
- SUBMIT SHOP DRAWINGS SUCH THAT BY THE TIME THEY ARE RECEIVED BY O'DONNELL & NACCARATO, INC., THERE WILL BE AT LEAST 14 DAYS BEFORE REVIEW SHALL BE REQUIRED. ANY REVIEW THAT IS REQUIRED MORE THAN 14 DAYS PRIOR TO THE REVIEW DATE WILL BE AT THE CONTRACTOR'S EXPENSE. SHOP DRAWINGS SHALL BEAR THE CONTRACTORS STAMP OF APPROVAL CERTIFYING THAT HE HAS VERIFIED ALL FIELD MEASUREMENTS. CONSTRUCTION CRITICAL MATERIALS AND SMALLER BEAM CONFIGURATIONS, GUIDE RAIL, SUPPORT POSTS, ETC. AS APPROPRIATE UNTIL FINAL SITE SPECIFIC ELEVATOR SHOP DRAWINGS ARE RECEIVED.
- IN NO CASE SHALL HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8' FROM ANY FOUNDATION/BASEMENT WALL, IF THE CONTRACTOR DESIRES AN APPROVAL FOR CONSTRUCTION OF SUCH EQUIPMENT, THE CONTRACTOR IS SOLELY RESPONSIBLE TO COORDINATE ALL CONTRACTOR EXPENSE, PROVIDE ADEQUATE SUPPORTS OR WALL BRACES TO WITHSTAND THE ADDITIONAL LOADS SUPERIMPOSED FROM SUCH EQUIPMENT.
- SIZE AND/OR LOCATION OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, DEPRESSIONS, ETC. SHOWN ON THE STRUCTURAL DOCUMENTS ARE FOR CONSTRUCTION CONVENIENCE ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE TO COORDINATE ALL CONTRACTOR EXPENSE TO DETERMINE THE SIZE AND/OR LOCATION OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, DEPRESSIONS, ETC.
- SIZE AND/OR LOCATION OF EXISTING STRUCTURES AND UTILITIES SHOWN ON THE STRUCTURAL DOCUMENTS ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY BY FIELD MEASUREMENTS/INVESTIGATION THE SIZE AND/OR LOCATION OF ALL EXISTING STRUCTURES AND UTILITIES.
- THE CONTRACTOR SHALL SUBMIT SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. DESIGNATIONS OF METAL STAIRS, METAL RAILINGS AND CONNECTIONS TO STRUCTURE TAKING INTO ACCOUNT THE VERTICAL AND LATERAL LOADS STATED IN THE GOVERNING CODES. WHERE HEADERS OR OTHER TYPES OF STRUCTURAL MEMBERS HAVE BEEN DESIGNED ON THE STRUCTURAL CONTRACT DOCUMENTS TO SUPPORT THE STAIRS, THE CONNECTIONS FROM THE STAIRS SHALL BE DESIGNED SO THAT NO EXCESSIVE TORSIONAL FORCES ARE IMPOSED ON THESE STRUCTURAL MEMBERS. IF ECCENTRIC CONNECTIONS ARE USED, CONTRACTOR SHALL PROVIDE BRACING ELEMENTS FOR ALL SUPPORTING STEEL TO ELIMINATE THE TORSIONAL EFFECTS OF THE ECCENTRIC CONNECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINISHING AND INSTALLING ALL EMBEDDED ITEMS AND HARDWARE AS REQUIRED PER THE STAIR DESIGN.
- STRUCTURAL COMPONENTS ARE NOT DESIGNED FOR VIBRATING EQUIPMENT. MOUNT VIBRATING EQUIPMENT ON VIBRATION ISOLATORS, BERTHA PADS, ETC.
- EXACT LOCATIONS OF ROOF PENETRATIONS TO BE COORDINATED BY THE GENERAL CONTRACTOR BETWEEN STEEL/JOIST/DECK/HVAC SUBCONTRACTORS. SEE DETAIL FOR ROOF FRAME REQUIREMENTS.
- ALL MISCELLANEOUS ELEVATOR COMPONENTS, SUCH AS GUARDING OF COUNTERWEIGHTS, SHAFT WALL MOUNTED EQUIPMENT/TRACK SUPPORTS, CONNECTION TO GUIDE RAILS TO PRIMARY STRUCTURE, ETC. ARE TO BE PROVIDED BY COORDINATION WITH THE ELEVATOR MANUFACTURER. PROVIDED ALLOWANCE FOR ADDITIONAL SUPPLEMENTAL STEEL SUPPORTS, SUCH AS LOW BEAMS FOR BRACING OF ELEVATOR DOOR HEADERS, FINAL HOIST BEAM MACHINE BEAM CONFIGURATIONS, GUIDE RAIL, SUPPORT POSTS, ETC. AS APPROPRIATE UNTIL FINAL SITE SPECIFIC ELEVATOR SHOP DRAWINGS ARE RECEIVED.

EXISTING CONDITIONS/DEMOLITION

- SHORING, BRACING, PROTECTION, AND UNDERPINNING OF EXISTING AND ADJACENT STRUCTURES DURING CONSTRUCTION, INCLUDING ALL DESIGN RESPONSIBILITIES OF THE CONTRACTOR, PROVIDE SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS TO THE ARCHITECT AND OWNER. PROTECT AND MAINTAIN THE INTEGRITY OF EXISTING AND ADJACENT STRUCTURES, BUILDINGS AND STREETS.
- ALL EXISTING DIMENSIONS, ELEVATIONS, AND LOCATIONS OF EXISTING STRUCTURES, OR RELATIVE TO EXISTING STRUCTURES, THAT ARE SHOWN ON THE STRUCTURAL DOCUMENTS SHALL BE VERIFIED BY FIELD MEASUREMENTS PERFORMED BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER.
- THE STRUCTURAL DOCUMENTS HAVE BEEN PREPARED BASED ON AVAILABLE KNOWLEDGE OF EXISTING CONDITIONS. IF, DURING DEMOLITION, EDUCATION OR CONSTRUCTION, ACTUAL CONDITIONS ARE DISCOVERED TO DIFFER FROM THOSE INDICATED ON THE DOCUMENTS, THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED.
- ALL STRUCTURAL DEMOLITION MUST BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- SELECTIVELY DEMOLISH STRUCTURAL COMPONENTS AS REQUIRED TO CONSTRUCT NEW WORK. PRIOR TO ANY DEMOLITION WORK, AN ENGINEERING SURVEY REPORT OF THE STRUCTURE SHALL BE PREPARED BY THE CONTRACTOR TO DOCUMENT THE CONDITION OF THE FRAMING, FLOORS, AND WALLS. ANY ADJACENT STRUCTURE WHERE OCCUPANTS MAY BE EXPOSED SHALL BE CAREFULLY REVIEWED.
- WHERE NEW FRAMING IS TO BE CONNECTED TO AN EXISTING STRUCTURE WITH BRICK OR CMU VENEER, THE VENEER SHALL BE REMOVED SUFFICIENTLY TO PERMIT CONNECTION OF THE NEW FRAMING DIRECTLY TO THE BUILDING SUPERSTRUCTURE. NEW BRICK OR CMU SHALL BE INSTALLED TO MATCH THE EXISTING ADJACENT SURFACES. MAINTAIN A 1/2" SEPARATION BETWEEN THE BRICK OR CMU AND THE NEW FRAMING, UNLESS NOTED OTHERWISE ON DRAWINGS. FILL GAPS WITH BACKER RODS AND SEALANTS.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING FINISHED FLOOR ELEVATIONS PRIOR TO FABRICATION OF STEEL BEAMS. PROVIDE ALL ALLOWANCE FOR ADDITIONAL LEVELING MATERIAL IN AREAS OF BREAK THROUGH TO THE EXISTING STRUCTURE TO ENSURE FINISHED FLOOR ELEVATION OF NEW MATCHES EXISTING.
- CONTRACTOR SHALL RETAIN INDIVIDUAL TO PERFORM SITE SAFETY DEMOLITION PLAN, ENGINEERING STUDY AND ALL OTHER SERVICES RELATED TO DEMOLITION WITH LOCAL JURISDICTION REQUIREMENTS.

STRUCTURAL SPECIAL INSPECTIONS

- THE QUALIFIED AGENCY RETAINED BY THE OWNER FOR THESE SPECIAL INSPECTION SERVICES SHALL BE APPROVED BY THE OWNER, THE ARCHITECT, AND THE ENGINEER OF RECORD PRIOR TO START OF CONSTRUCTION. AN OUTLINE OF THE SCOPE OF SERVICES TO BE PERFORMED BY THE INSPECTION AGENCY IS TO BE SUBMITTED PRIOR TO THE START OF CONSTRUCTION.
- IN ACCORDANCE WITH SECTION 1704 OF THE INTERNATIONAL BUILDING CODE AND ALL APPLICABLE STATE AND LOCAL REQUIREMENTS, AN INDEPENDENT APPROVED AGENCY SHALL MAKE PERIODIC AND/OR CONTINUOUS INSPECTIONS OF THE CONSTRUCTION PROGRESS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

STEEL CONSTRUCTION	SECTION 1704.3, TABLE 1704.3
CONCRETE CONSTRUCTION	SECTION 1704.4, TABLE 1704.4
MASONRY CONSTRUCTION	SECTION 1704.5, TABLE 1704.5
SOILS	SECTION 1704.7, TABLE 1704.7
PILE FOUNDATIONS	SECTION 1704.8, TABLE 1704.8

FOUNDATIONS

- NO GEOTECHNICAL REPORT IS PROVIDED. BOTTOM OF FOOTINGS IS ASSUMED TO BEAR ON SOIL CAPABLE OF SAFELY SUPPORTING 2,500 PSF. PRIOR TO CONSTRUCTION, THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER SHALL BE RETAINED. THE GENERAL CONTRACTOR IS HEREIN RESPONSIBLE FOR PERFORMING ALL EARTHWORK OPERATIONS IN STRICT ACCORDANCE WITH GEOTECHNICAL ENGINEERING REQUIREMENTS. IF THE FOUNDATION RECOMMENDATIONS AND/OR DESIGN VALUES DIFFER FROM THAT ASSUMED, MODIFICATION TO THE DESIGN/DRAWINGS MAY BE REQUIRED.
- SUBGRADE OF ALL FOOTINGS MUST BE INSPECTED UNDER THE SUPERVISION OF AND APPROVED BY A REGISTERED SOILS ENGINEER BEFORE PLACING ANY CONCRETE. APPROVAL IN WRITING MUST INDICATE THE SOIL IS ADEQUATE TO SAFELY SUSTAIN SPECIFIED SOIL BEARING PRESSURE.
- BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF THREE FEET BELOW EXTERIOR FINISH GRADE. ALL FOOTING ELEVATIONS SHOWN ON PLAN ARE THE BEST APPROXIMATIONS BASED ON AVAILABLE DATA. GENERAL CONTRACTOR MAY ALTER FOOTING ELEVATIONS FOR REASONS INCLUDING, BUT NOT LIMITED TO, REVISED GEOTECHNICAL OR CIVIL INFORMATION, UNFORESEEN CONDITIONS, ACTUAL INVERT ELEVATIONS, CONSTRUCTABILITY, ETC. CONTRACTOR SHALL NOTIFY ARCHITECT AND OBTAIN WRITTEN APPROVAL PRIOR TO ANY MODIFICATIONS.
- DO NOT BACKFILL ANY BASEMENT WALLS WITH AN UNBALANCED HEIGHT OF SOIL GREATER THAN THREE FEET UNTIL ELEVATED FLOOR IS IN PLACE AND THE WALL HAS REACHED ITS DESIGN STRENGTH OR THE WALLS ARE ADEQUATELY BRACED.
- EXPOSED CONCRETE/CMU WALLS SHALL HAVE CONTROL JOINTS AT 30 FEET MAXIMUM ON CENTER UNLESS NOTED OTHERWISE. WALLS WITH INTEGRAL COLUMN PIERS OR PLASTERS SHALL BE POURED MONOLITHICALLY AND SHALL HAVE A FORMED CONTROL JOINT ON ONE SIDE OF EACH PIER ON THE EXPOSED FACE OF THE WALL. JOINTS SHALL BE FILLED WITH AN APPROVED SEALANT.

LIGHTGAGE METAL FRAMING

- LIGHTGAGE METAL STUD DESIGNATION SHOWN ON STRUCTURAL DRAWINGS ASSUME MARINOWARE AS A DESIGN BASIS. MANUFACTURER MUST SUBMIT LITERATURE INDICATING THAT THE MEMBERS SUPPLIED PROVIDE EQUIVALENT STRENGTH AND STIFFNESS. MANUFACTURER AND/OR SUPPLIER TO PREPARE INFORMATION INDICATING CAPACITY OF MEMBERS, FRAMING DETAILS, CONNECTIONS, BRACING, BIDDING AND ALL OTHER APPEARANCES OF MEMBERS TO CONFORM TO LOAD CRITERIA AS DIRECTED BY CONTRACTOR/CONSTRUCTION MANAGER.
- ALL LINTELS INDICATED ON DRAWINGS AS METAL STUD LINTELS ARE TO BE PROVIDED BY STUD MANUFACTURER/SUPPLIER.
- ALL STEEL STUDS SHALL BE HOT-DIPPED GALVANIZED (G 60) IN ACCORDANCE WITH ASTM A924. STEEL STUDS SHALL BE DESIGNED, MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE LATEST ASCE SPECIFICATIONS AND SHALL COMPLY WITH ASTM A953 & C895. ALL STUDS, JOISTS, AND ACCESSORIES SHALL HAVE THE FOLLOWING MATERIAL STRENGTHS:  
54 MLS (16 GAGE) AND HEAVIER - F<sub>y</sub> = 50KSI  
33 MLS, 42 MLS (20 GAGE, 18 GAGE RESPECTIVELY) - F<sub>y</sub> = 33KSI
- ALL WELDING OF LIGHT GAGE STEEL FRAMING MUST BE DONE BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS D1.3, SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES.
- MAKE CONNECTIONS WITH SELF-TAPPING SCREWS OR WELDING SO THAT THE CONNECTIONS MEET OR EXCEED THE DESIGN LOADS. ALWAYS USE WELDS WHERE SHOWN ON DRAWINGS.
- CUT ALL LIGHT GAGE STEEL FRAMING MEMBERS WITH SAWS OR SHEARS. FLAME CUTTING IS NOT PERMITTED.
- THE LIGHT GAGE STEEL FRAMING SUPPLIER AND ERECTOR SHALL HAVE A MINIMUM 5 YEARS EXPERIENCE IN THE FABRICATION AND ERECTION OF LIGHT GAGE STEEL FRAMING SYSTEMS.
- THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, AT THE END OF THE JOB, ONE (1) ELECTRONIC VERSION OF THE FINAL FIELD COPIES OF ALL TRUSS LAYOUT SHOP DRAWINGS.

DESIGN LOAD SCHEDULE  
(ALL LOADS SHOWN ARE IN POUNDS PER SQ. FT.)

COMPONENT	AREA	TYP. FLOOR + 6" PAD		
		TYP. FLOOR	TYP. FLOOR + 6" PAD	ROOF
ROOF # INSULATION				8
6" NK CONC.		75		
4 1/4" NK CONC. ON 2" DECK		68		
STEEL		8	8	7
COLLATERAL		5	5	5
CEILING		2	2	2
MEP		2	2	3
TOTAL DEAD LOAD		85	160	25
TOTAL LIVE LOAD		100	100	30
TOTAL LOAD		185	260	55





**IEI GROUP, LTD.**  
**IEI ARCHITECTS, INC.**  
 428 North 2nd Street  
 Philadelphia, PA 19123  
 Telephone: 215 413 3700

CONSULTANTS:  
**ARORA**  
 Arora Engineers, Inc.  
 61 Wilmington-West Chester Pike  
 Chadds Ford, PA 19317  
 P (610) 459-7900  
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PROJECT TITLE:  
**THE CITY OF PHILADELPHIA  
 OFFICE OF EMERGENCY MANAGEMENT  
 PHILADELPHIA PUBLIC SERVICES BUILDING  
 400 NORTH BROAD STREET, PHILADELPHIA, PA 19130  
 FLOORS 8, 9 AND 10**

- PROGRESS SET
- CLIENT REVIEW
- BID SET
- CODE REVIEW SET
- ISSUED FOR CONSTRUCTION

**ISSUED FOR BIDS**  
**9/18/20**  
 (NOT FOR CONSTRUCTION)

ISSUES/REVISIONS:  
 1 2020-09-18 ISSUED FOR BIDS  
 2 2020-10-15 ADDENDUM NO.1  
 3 2020-11-02 ADDENDUM NO.3

PROJECT NUMBER: 304103-120 OC  
 SCALE: As indicated  
 DATE: 07/07/2020  
 DRAWN BY: WAB  
 CHECKED BY: SMF

DRAWING TITLE:  
**FIRE PROTECTION  
 8TH FLOOR NEW  
 WORK PLAN**

SHEET NO.:  
**FP-108**

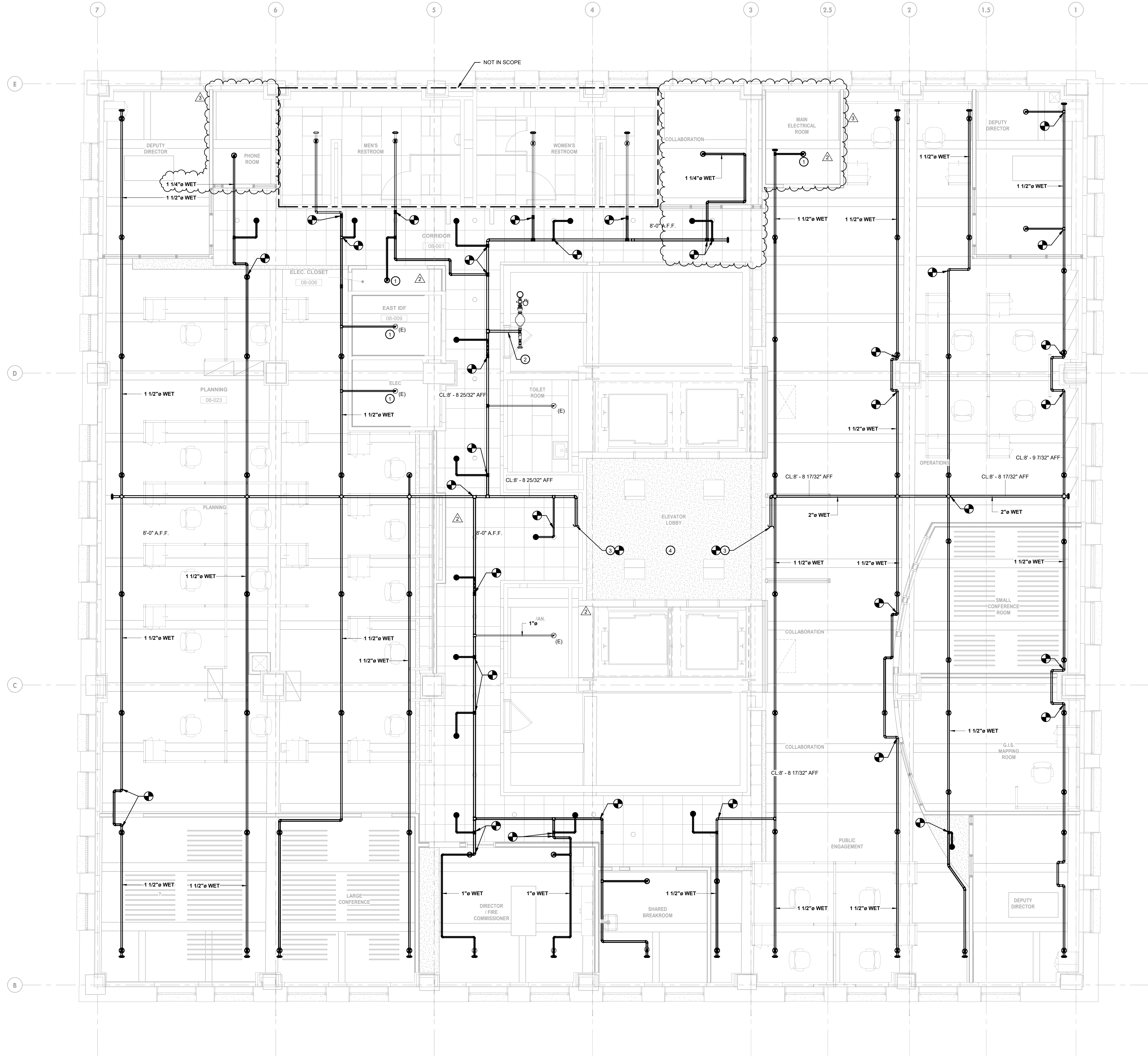
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**GENERAL NOTES:**

1. REFER TO FP-001 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. EXISTING FITTINGS AND ARMOR/RISE NIPPLE PIPING SHALL BE REMOVED BACK TO THE NEAREST BRANCHLINE OR MAIN PIPE FITTING TO REMAIN.
3. ALL SPRINKLER HEADS WITHIN FINISHED CEILINGS ARE TO BE NEW WHITE CONCEALED PENDENT TYPE SPRINKLER HEADS, UNLESS OTHERWISE NOTED. ALL NEW SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF TILE AND COORDINATED WITH LIGHTS, DIFFUSERS AND ANY ARCHITECTURAL CEILING ELEMENTS.
4. FIRE SPRINKLER PIPING AND SPRINKLERS SHALL NOT BE ROUTED OR LOCATED OVER ELECTRICAL EQUIPMENT AND RACKS, TO PREVENT DAMAGE CAUSED BY POTENTIAL LEAKS.

**KEYED NOTES:**

- ① PROVIDE SPRINKLER HEAD GUARD PROTECTION.
- ② EXISTING SPRINKLER MAIN TO REMAIN.
- ③ SPRINKLER MAIN TIE-IN TO EXISTING.
- ④ ELEVATOR LOBBY NOT IN SCOPE.



① FIRE PROTECTION NEW WORK PLAN - EIGHTH FLOOR  
 1/4" = 1'-0"

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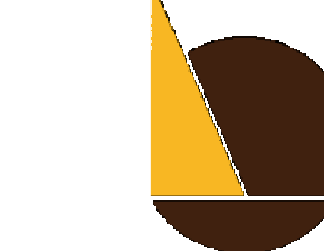


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**IEI ARCHITECTS, INC.**  
 428 North 2nd Street  
 Philadelphia, PA 19123  
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**Arora Engineers, Inc.**  
 61 Wilmington-West Chester Pike  
 Chadds Ford, PA 19317  
 P (610) 459-7900  
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 2 2020-11-02 ADDENDUM NO. 3

PROJECT NUMBER: 304103-120 OC  
 SCALE: As Indicated  
 DATE: 07/07/2020  
 DRAWN BY: JKM  
 CHECKED BY: DJM

DRAWING TITLE:  
**MECHANICAL 8TH FLOOR  
 DEMOLITION PLAN**

SHEET NO.:  
**MD-108**

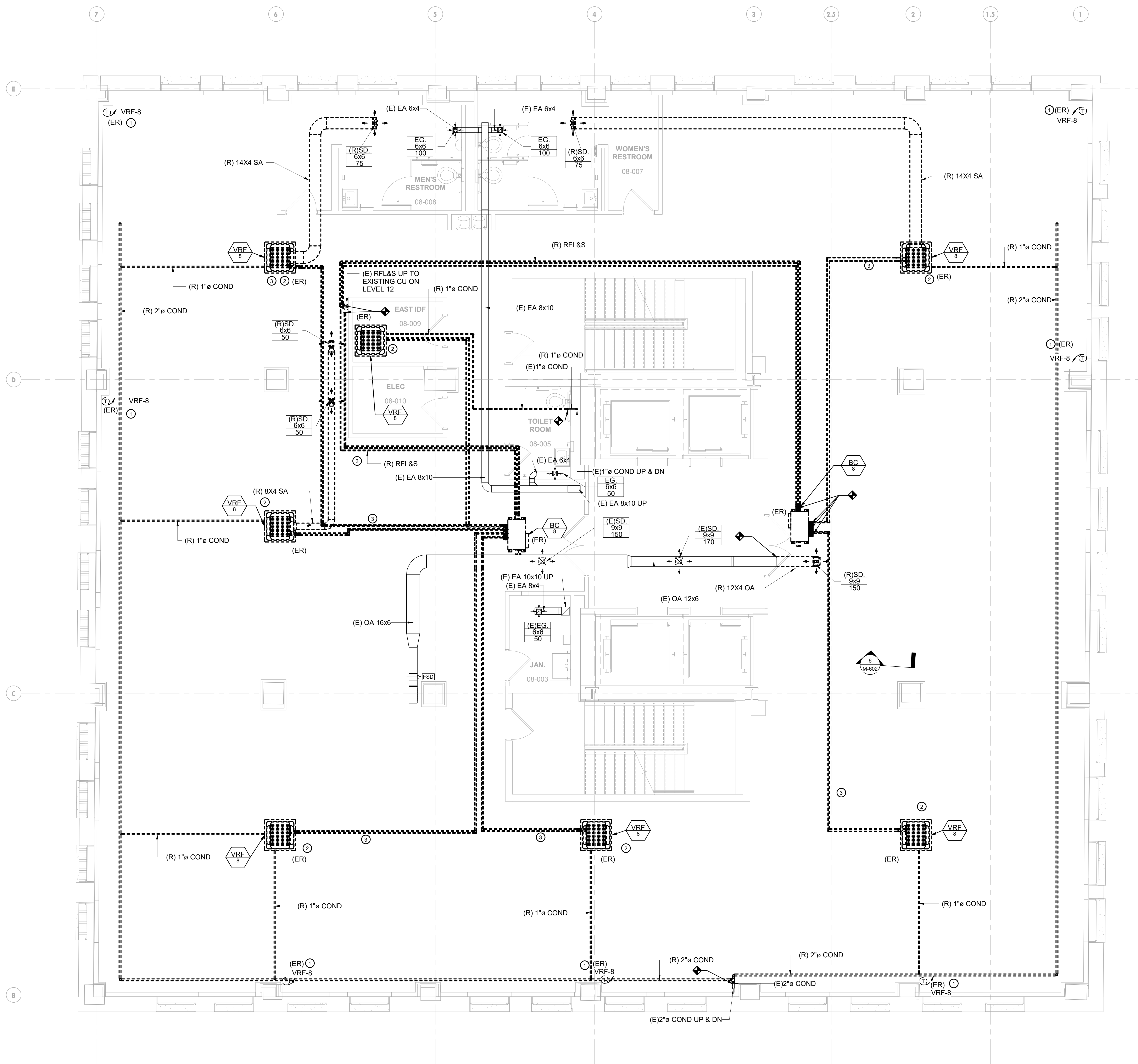
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**GENERAL NOTES:**

1. REFER TO DRAWING M-001 & M-002 FOR MECHANICAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. THE EXISTING CONDITIONS INDICATED ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS. SLIGHT VARIATIONS IN ACTUAL INSTALLED CONDITIONS MAY BE ENCOUNTERED DURING CONSTRUCTION.
3. REFER TO NEW WORK PLANS FOR NEW LOCATION OF RELOCATED EQUIPMENT.
4. REMOVED EQUIPMENT/COMPONENTS TO BE REUSED SHALL BE PROPERLY DISASSEMBLED PER MANUFACTURER'S RECOMMENDATIONS AND STORED IN A PROTECTIVE ENVIRONMENT TO PREVENT POTENTIAL DAMAGE OR CONSTRUCTION DEBRIS FROM ENTERING THE EQUIPMENT OR COMPONENTS.

**KEYED NOTES:**

- 1 REMOVE AND RELOCATE THERMOSTATS ALONG WITH CONTROL WIRING, ETC. REFER TO NEW WORK PLANS REGARDING NEW LOCATION OF THERMOSTATS.
- 2 REMOVE AND RELOCATE CEILING CASSETTES ALONG WITH ASSOCIATED ELECTRICAL WIRING, CONTROL WIRING, DUCTS, CONDENSATE PIPING, ETC. REFER TO NEW WORK PLANS REGARDING NEW LOCATION OF CEILING CASSETTES.
- 3 REMOVE EXISTING RFL&S PIPING WITH INSULATION, PIPE HANGERS, ETC.



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





**IEI GROUP, LTD.**  
**IEI ARCHITECTS, INC.**  
 428 North 2nd Street  
 Philadelphia, PA 19123  
 Telephone: 215.413.3700

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 61 Wilmington-West Chester Pike  
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 2 2020-11-02 ADDENDUM NO. 3

PROJECT NUMBER: 304103-120 OC  
 SCALE: As indicated  
 DATE: 07/07/2020  
 DRAWN BY: JKM  
 CHECKED BY: DJM

DRAWING TITLE:  
**MECHANICAL 9TH FLOOR  
 DEMOLITION PLAN**

SHEET NO.:  
**MD-109**

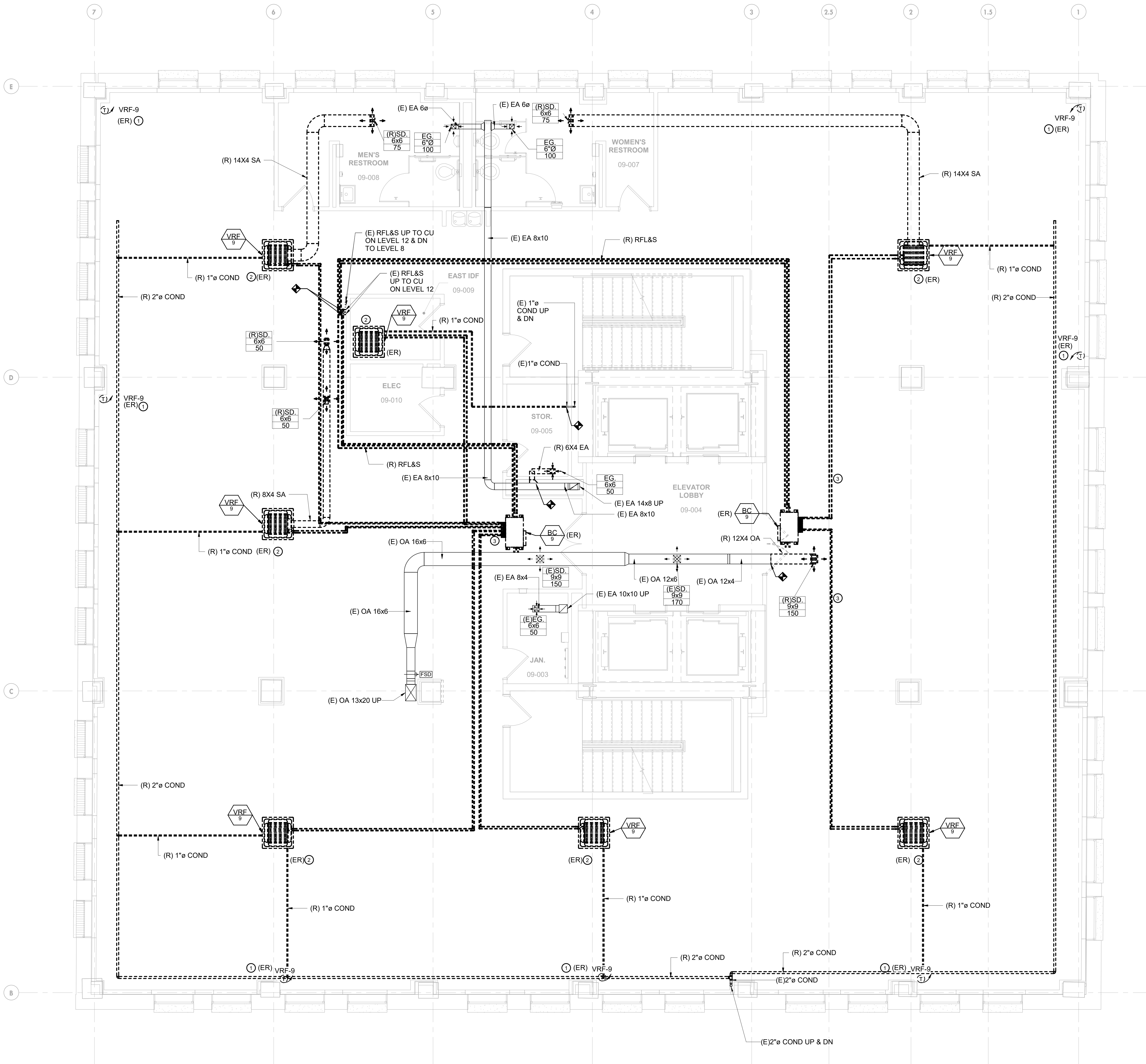
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**GENERAL NOTES:**

1. REFER TO DRAWING M-001 & M-002 FOR MECHANICAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. THE EXISTING CONDITIONS INDICATED ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS. SLIGHT VARIATIONS IN ACTUAL INSTALLED CONDITIONS MAY BE ENCOUNTERED DURING CONSTRUCTION.
3. REFER TO NEW WORK PLANS FOR NEW LOCATION OF RELOCATED EQUIPMENT.
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**KEYED NOTES:**

- ① REMOVE AND RELOCATE THERMOSTATS ALONG WITH CONTROL WIRING, ETC. REFER TO NEW WORK PLANS REGARDING NEW LOCATION OF THERMOSTATS.
- ② REMOVE AND RELOCATE CEILING CASSETTES ALONG WITH ASSOCIATED ELECTRICAL WIRING, CONTROL WIRING, DUCTS, CONDENSATE PIPING, ETC. REFER TO NEW WORK PLANS REGARDING NEW LOCATION OF CEILING CASSETTES.
- ③ REMOVE EXISTING RFL&S PIPING WITH INSULATION, PIPE HANGERS, ETC.



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



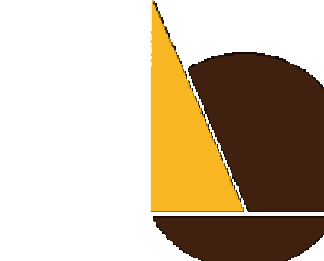


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Chadds Ford, PA 19317  
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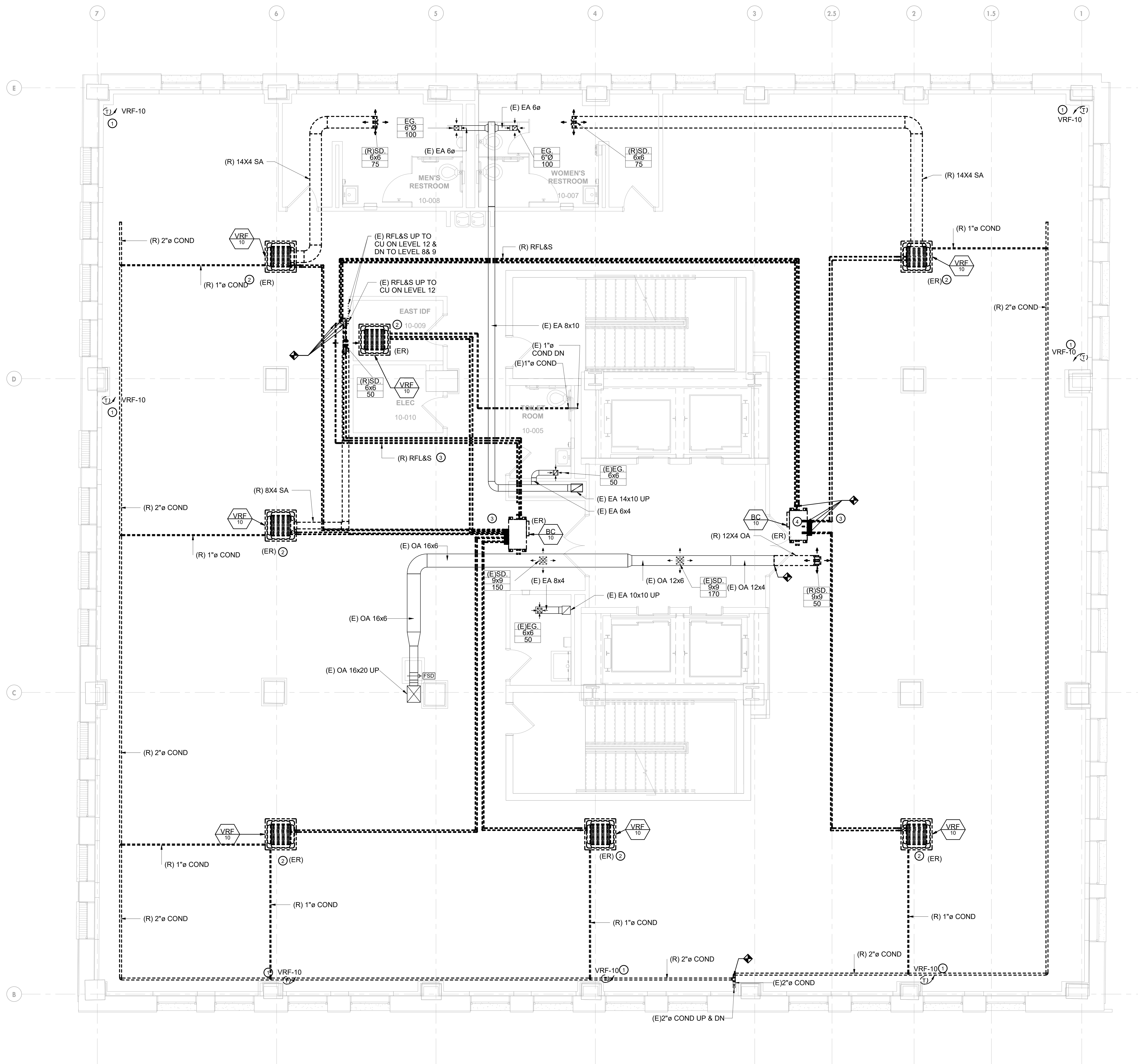
PROJECT NUMBER: 304103-120 OC  
SCALE: As Indicated  
DATE: 07/07/2020  
DRAWN BY: DJM  
CHECKED BY: DJM

DRAWING TITLE:  
MECHANICAL 10TH FLOOR  
DEMOLITION PLAN

SHEET NO.:

MD-110

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**GENERAL NOTES:**

1. REFER TO DRAWING M-001 & M-002 FOR MECHANICAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. THE EXISTING CONDITIONS INDICATED ON PLANS ARE BASED ON AVAILABLE EXISTING DRAWINGS. SLIGHT VARIATIONS IN ACTUAL INSTALLED CONDITIONS MAY BE ENCOUNTERED DURING CONSTRUCTION.
3. REFER TO NEW WORK PLANS FOR NEW LOCATION OF RELOCATED EQUIPMENT.
4. REMOVED EQUIPMENT/COMPONENTS TO BE REUSED SHALL BE PROPERLY DISASSEMBLED PER MANUFACTURER'S RECOMMENDATIONS AND STORED IN A PROTECTIVE ENVIRONMENT TO PREVENT POTENTIAL DAMAGE OR CONSTRUCTION DEBRIS FROM ENTERING THE EQUIPMENT OR COMPONENTS.

**KEYED NOTES:**

- ① REMOVE AND RELOCATE THERMOSTATS ALONG WITH CONTROL WIRING, ETC. REFER TO NEW WORK PLANS REGARDING NEW LOCATION OF THERMOSTATS.
- ② REMOVE AND RELOCATE CEILING CASSETTES ALONG WITH ASSOCIATED ELECTRICAL WIRING, CONTROL WIRING, DUCTS, CONDENSATE PIPING, ETC. REFER TO NEW WORK PLANS REGARDING NEW LOCATION OF CEILING CASSETTES.
- ③ REMOVE EXISTING RFL&S PIPING WITH INSULATION, PIPE HANGERS, ETC.
- ④ REMOVE AND RELOCATE EXISTING BRANCH BOX ALONG WITH ASSOCIATED ELECTRICAL WIRING, CONTROL WIRING, ETC. REFER TO NEW WORK PLANS REGARDING NEW LOCATION OF THE BRANCH BOXES.

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

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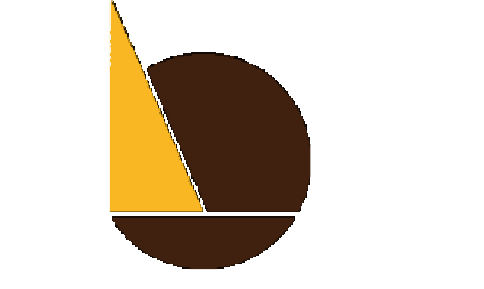




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**IEI ARCHITECTS, INC.**  
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 DATE: 07/07/2020  
 DRAWN BY: JKM  
 CHECKED BY: DJM

DRAWING TITLE:  
**MECHANICAL 10TH  
 FLOOR NEW WORK  
 PLAN**

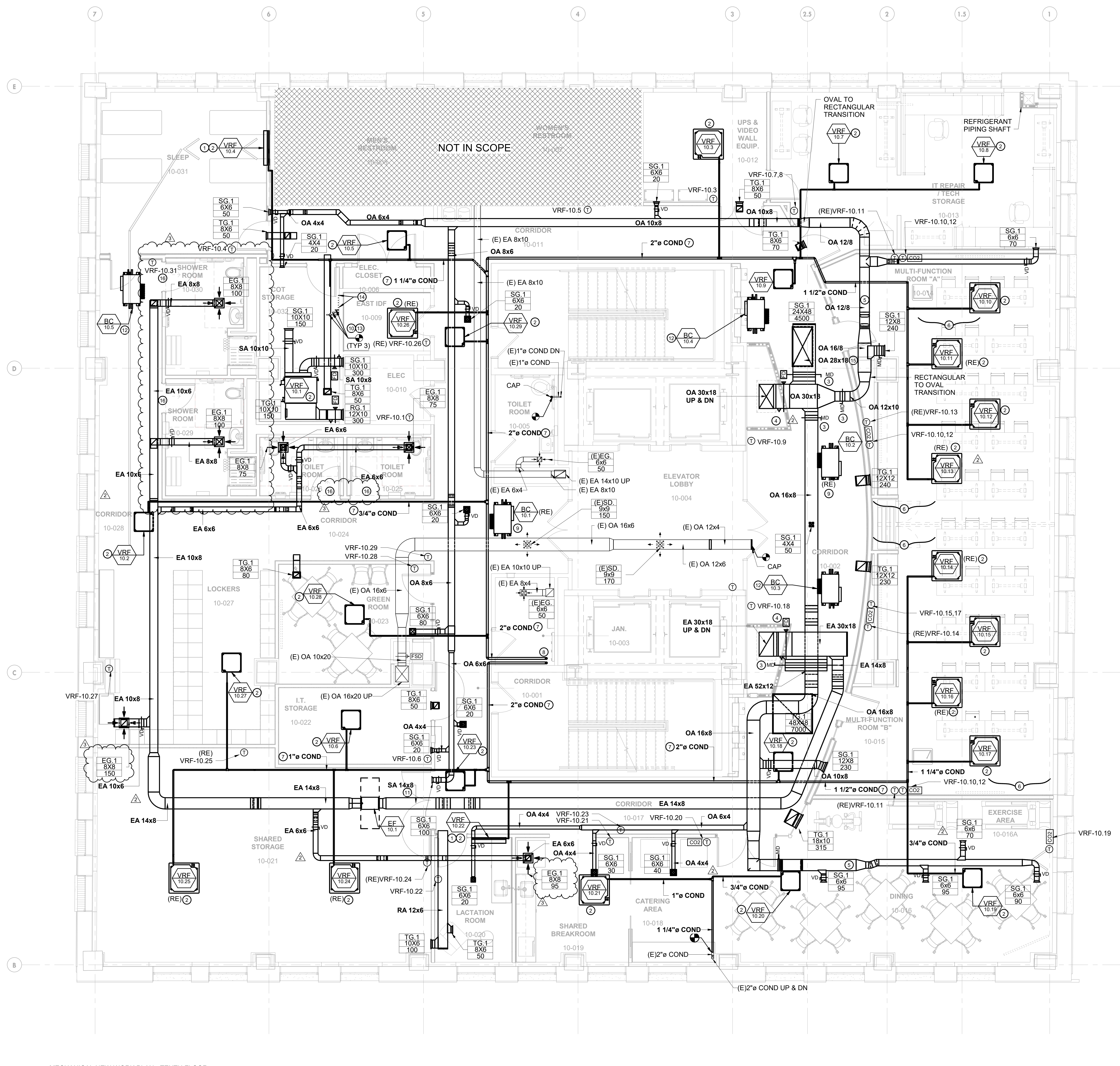
SHEET NO:  
**M-110**

**GENERAL NOTES:**

1. REFER TO DRAWING M-001 & M-002 FOR MECHANICAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. REFER TO DRAWING M-501 AND M-503 FOR MECHANICAL CONTROL DIAGRAMS.
3. REFER TO DRAWING M-601 AND M-602 FOR MECHANICAL DETAILS.
4. REFER TO DRAWING M-701 THRU M-704 FOR MECHANICAL SCHEDULES.
5. FOR REFRIGERANT PIPING SERVING VRF SYSTEMS, REFER TO REFRIGERANT PIPING RISER DIAGRAMS. CONTRACTOR SHALL CAREFULLY ROUTE REFRIGERANT PIPING IN AREAS WITHOUT CEILINGS. ALL REFRIGERANT PIPE ROUTING SHALL BE SUBMITTED TO AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
6. PROVIDE VOLUME DAMPERS ON ALL BRANCH DUCTS WHETHER SHOWN ON FLOOR PLAN OR NOT. SEE DETAILS SHOWN ON DRAWING M-601.
7. CONTRACTOR TO COORDINATE FINAL LOCATION OF SUPPLY AND RETURN RISER BASED ON EXISTING CONDITION (TYPICAL).
8. TRANSFER DUCT TO BE PROVIDED ABOVE CEILING WITH 1" ACOUSTICAL SOUND LINING WITH 1/2" X 1/2" SCREEN GUARD ON OPEN END. (TYPICAL).
9. REFER TO DRAWING M-501 FOR MECHANICAL DUCTWORK RISER FOR OUTSIDE AND RELIEF/EXHAUST AIR.
10. DUCTWORK PENETRATIONS SHOULD BE OVER-SIZED BY A 1/2" FILLED WITH BACKER ROD AND SEALED WITH A RESILIENT, NON-HARDENING SEALANT.
11. ALL MECHANICAL EQUIPMENT ABOVE CEILING SHALL BE PROVIDED WITH ACCESS PANELS NO LESS THAN 24"X24" FOR MAINTENANCE.
12. ALL DUCTED VRF UNITS ON THIS FLOOR SHALL BE DOUBLE WALL CONSTRUCTION AND PROVIDED WITH ACOUSTICAL 1" INTERNAL DUCT LINER.
13. INTERNAL DUCT LINER SHALL BE PROVIDED FOR A MINIMUM OF 10 FEET DOWNSTREAM OF UNITS BEFORE ANY BRANCHING TO DIFFUSERS. IF BRANCHING OCCURS PRIOR TO THE FIRST TAKE-OFF, THE LINER SHALL CONTINUE DOWN THE BRANCH UNTIL THE 10 FEET LINER LENGTH IS ACHIEVED.

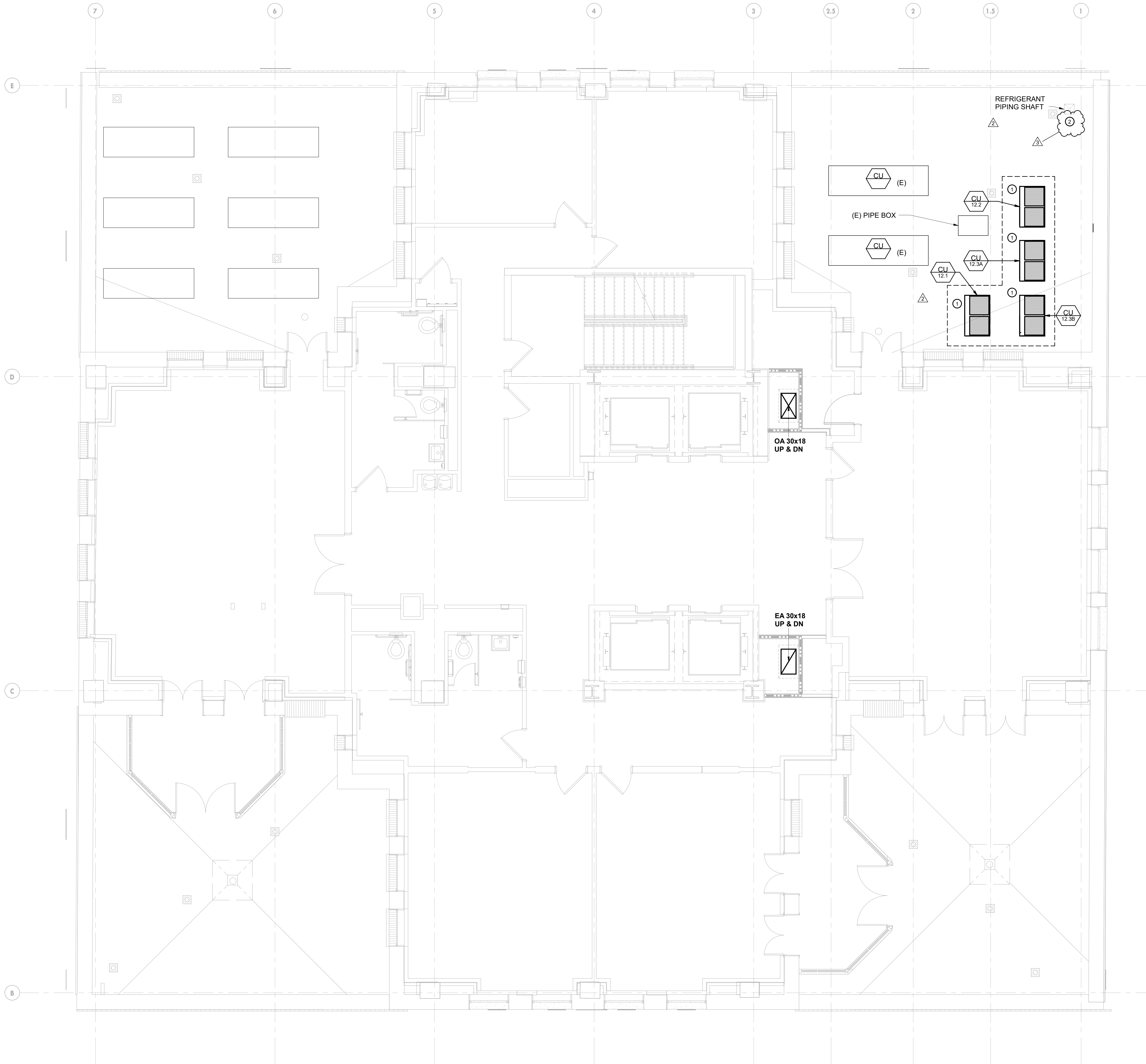
**KEYED NOTES:**

- ① PROVIDE WITH MANUFACTURER PROVIDED CONDENSATE PUMP.
- ② RUN, SIZE, TRAP AND CONNECT REFRIGERANT PIPING PER MANUFACTURER'S GUIDELINES.
- ③ PROVIDE MOTORIZED DAMPER AS SHOWN IN THE MECHANICAL VENTILATION (OUTDOOR) AND EXHAUST AIR DUCTWORK RISER ON SHEET M-501.
- ④ PROVIDE FIRE DAMPERS FOR DUCT PENETRATING THE SHAFT.
- ⑤ PROVIDE SPIRAL FLAT OVAL DUCT. REFER TO PLANS FOR SIZES.
- ⑥ THIS IS CONSIDERED CRITICAL SPACE. SPACE HAS BEEN PROVIDED WITH A REDUNDANT SYSTEM.
- ⑦ ALL CONDENSATE PIPING LOCATED IN CORRIDOR AND OTHERS NOTED SHALL BE SLOPED 1/8" PER LINEAR FOOT TOWARDS JANITOR CLOSET.
- ⑧ 2" CONDENSATE PIPE DN TO MOP SINK.
- ⑨ RUN, SIZE, TRAP AND CONNECT REFRIGERANT PIPING PER MANUFACTURER'S GUIDELINES TO EXISTING OR RELOCATED EXISTING BLOCK CONTROLLER'S.
- ⑩ RUN, SIZE, TRAP AND CONNECT REFRIGERANT PIPING PER MANUFACTURER'S GUIDELINES TO EXISTING OR RELOCATED EXISTING BLOCK CONTROLLER'S.
- ⑪ EA DUCT TO BE ROUTED TO CONNECT NEW EXHAUST AIR RISER.
- ⑫ RUN, SIZE, TRAP AND CONNECT REFRIGERANT PIPING PER MANUFACTURER'S GUIDELINES TO VRF EQUIPMENT SHOWN ON MECHANICAL REFRIGERANT RISER ON DWG. M-502.
- ⑬ EXISTING RFL&S PIPES UP TO CU ON LEVEL 12
- ⑭ EXISTING RFL&S PIPES UP TO CU ON LEVEL 12 AND DN TO LEVEL-8 & LEVEL 9.
- ⑮ PROVIDE LINED 28X18 SUPPLY AIR DUCTWORK FROM MAIN TO THE SUPPLY GRILLE.
- ⑯ PROVIDE 1" UNDERCUT FOR TOILET DOOR.



① MECHANICAL NEW WORK PLAN - TENTH FLOOR  
 1/4" = 1'-0"





**GENERAL NOTES:**

1. REFER TO DRAWING M-001 & M-002 FOR MECHANICAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. REFER TO DRAWING M-501 AND M-503 FOR MECHANICAL CONTROL DIAGRAMS.
3. REFER TO DRAWING M-601 AND M-602 FOR MECHANICAL DETAILS.
4. REFER TO DRAWING M-701 THRU M-704 FOR MECHANICAL SCHEDULES.

**KEYED NOTES:**

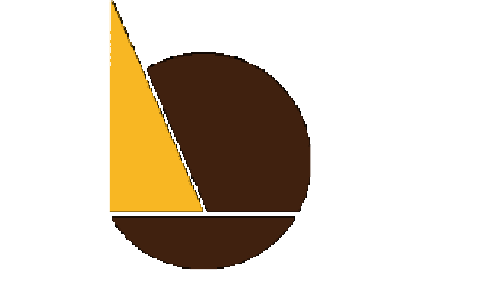
- ① PROVIDE EQUIPMENT SUPPORT PER MANUFACTURER'S RECOMMENDATION OR AS SHOWN ON DETAIL SHEET M-602.
- ② RUN REFRIGERANT PIPING BELOW THE ROOF OF THE 12TH FLOOR AND THEN UP TO EACH CONDENSING UNIT INDIVIDUALLY FOLLOWING MANUFACTURER'S INSTRUCTIONS.



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**IEI ARCHITECTS, INC.**  
 428 North 2nd Street  
 Philadelphia, PA 19123  
 Telephone: 215 413 3700



**Arora Engineers, Inc.**  
 61 Wilmington-West Chester Pike  
 Chadds Ford, PA 19317  
 P (610) 459-7900  
 F (610) 459-7950  
 aroraengineers.com



**O'Donnell & Nasciarato**  
 701 Market Street, Suite 6000  
 Philadelphia, PA 19106  
 PH: 215.925.3788  
 www.o-n.com

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**THE CITY OF PHILADELPHIA  
 OFFICE OF EMERGENCY MANAGEMENT  
 PHILADELPHIA PUBLIC SERVICES BUILDING  
 400 NORTH BROAD STREET, PHILADELPHIA, PA 19130  
 FLOORS 8, 9 AND 10**

- PROGRESS SET
- CLIENT REVIEW
- BID SET
- CODE REVIEW SET
- ISSUED FOR CONSTRUCTION

**ISSUED FOR BIDS**  
**9/18/20**  
 (NOT FOR CONSTRUCTION)

ISSUES/REVISIONS:  
 1 2020-09-18 ISSUED FOR BIDS  
 2 2020-10-15 ADDENDUM NO. 1  
 3 2020-11-02 ADDENDUM NO. 3

PROJECT NUMBER: 304103-120 OC  
 SCALE: As indicated  
 DATE: 07/07/2020  
 DRAWN BY: JKM  
 CHECKED BY: DJM

DRAWING TITLE:  
**MECHANICAL 12TH  
 FLOOR NEW WORK  
 PLAN**

SHEET NO:  
**M-112**

PRINTED ON: 11/2/2020 11:55:55 AM

BIM 360/PPSS - Office of Emergency Management/122320.001\_PPSS\_OEM\_MECH.rvt

① MECHANICAL NEW WORK PLAN - TWELFTH FLOOR  
 1/4" = 1'-0"

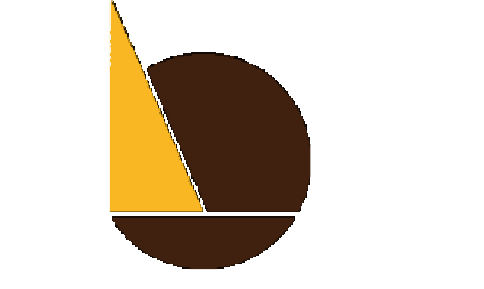




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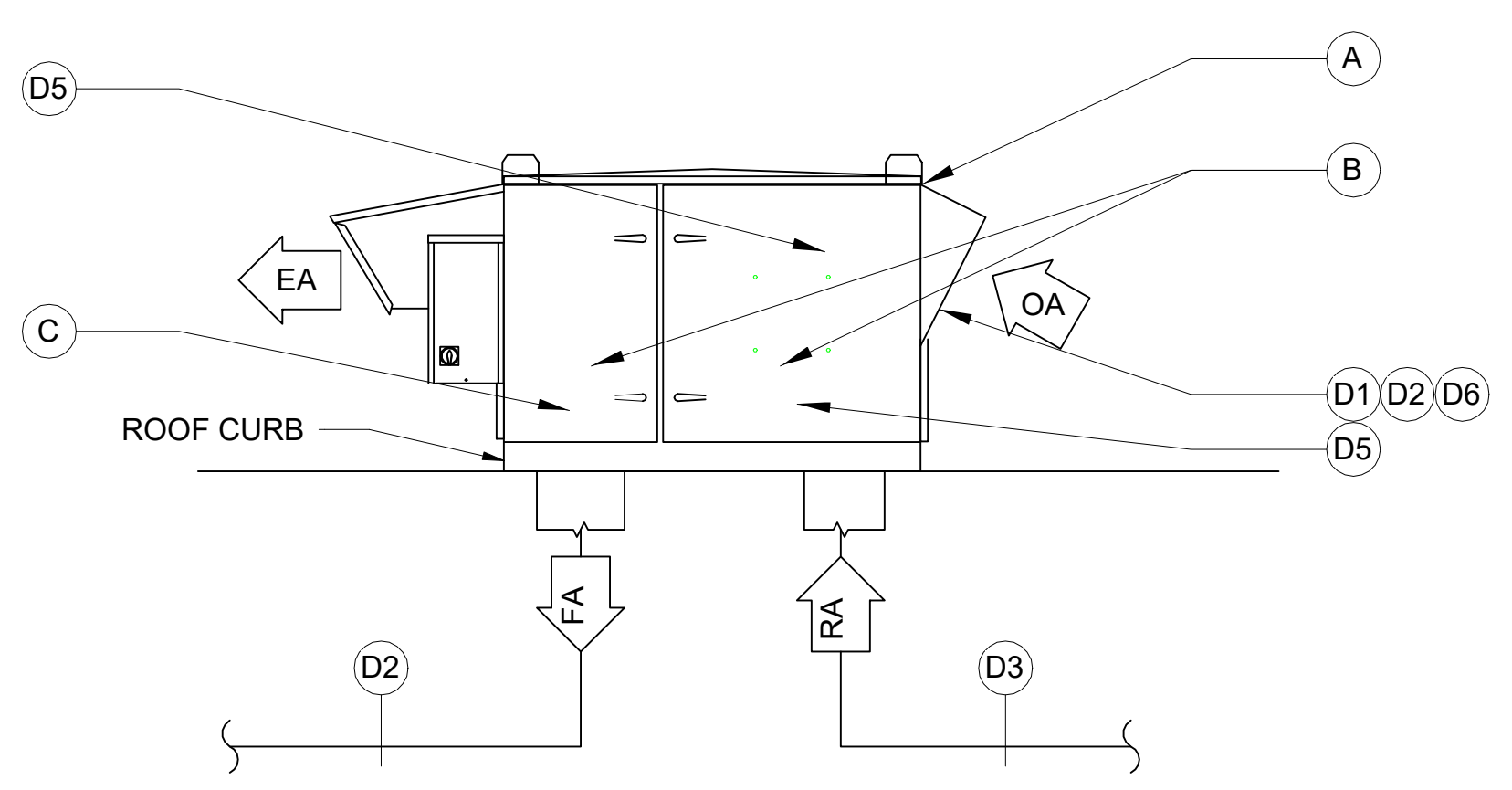
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 SCALE: As indicated  
 DATE: 07/07/2020  
 DRAWN BY: Author  
 CHECKED BY: Checker

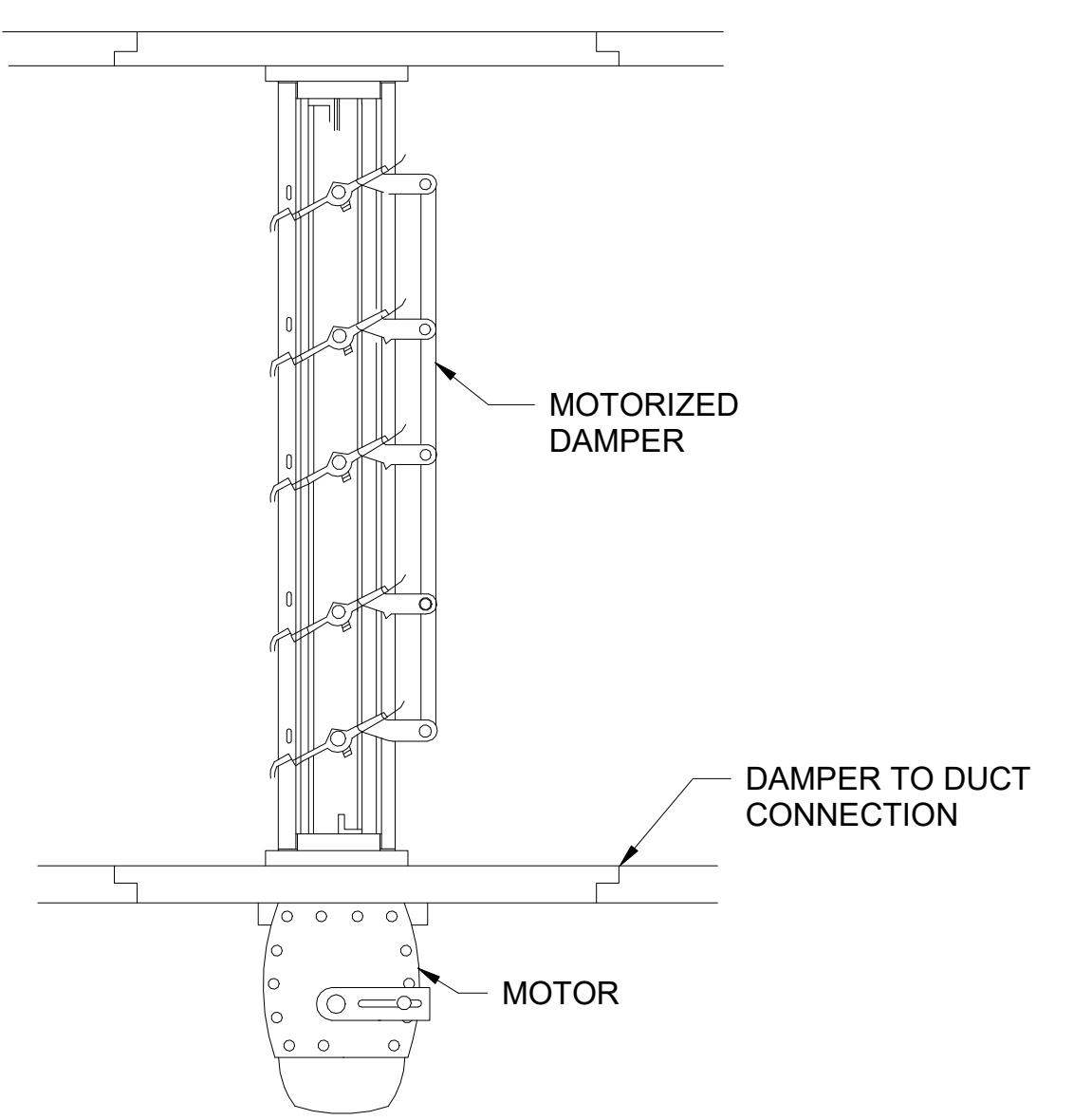
DRAWING TITLE:  
**MECHANICAL  
 DETAILS**

SHEET NO.:  
**M-602**

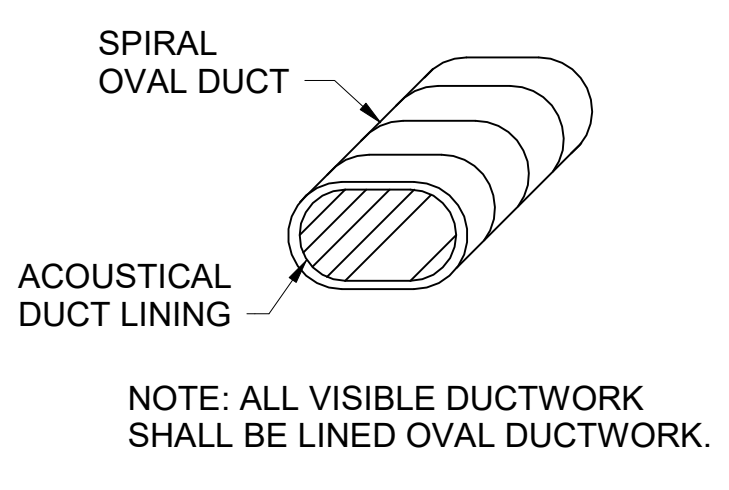


- DEDICATED OUTDOOR AIR UNIT:**
- A. THE DOAS SHALL OPERATE CONTINUOUSLY
  - B. THE DDC SYSTEM SHALL MONITOR THE SUPPLY AND EXHAUST FANS PROOF OF FLOW AND ALARM ON FAN FAILURE.
  - C. THE DDC SYSTEM SHALL MEASURE OUTSIDE AIR FLOW AT THE INLET OF THE BUILDING SUPPLY FAN.
    - 1) SUPPLY AIR FROM DOAS IS OUTSIDE AIR TO THE BUILDING. ALARM TO DDC WORKSTATION ON A DROP IN SUPPLY AIR BELOW 90% OF DESIGN AIRFLOW.
  - D. THE DDC SYSTEM SHALL MONITOR THE FOLLOWING:
    - 1) OUTSIDE AIR TEMPERATURE
    - 2) OUTSIDE AIR ENTHALPY/SPECIFIC HUMIDITY
    - 3) BUILDING SUPPLY DISCHARGE AIR TEMPERATURE, AND ENTHALPY
    - 4) BUILDING EXHAUST INTAKE AIR TEMPERATURE, AND ENTHALPY
    - 5) FILTER PRESSURE DROP ACROSS THE INTAKE FILTER BANK AND DISCHARGE FILTER BANK, ALARM AT 0.75" W.G.
    - 6) MONITOR OUTDOOR CO<sub>2</sub>

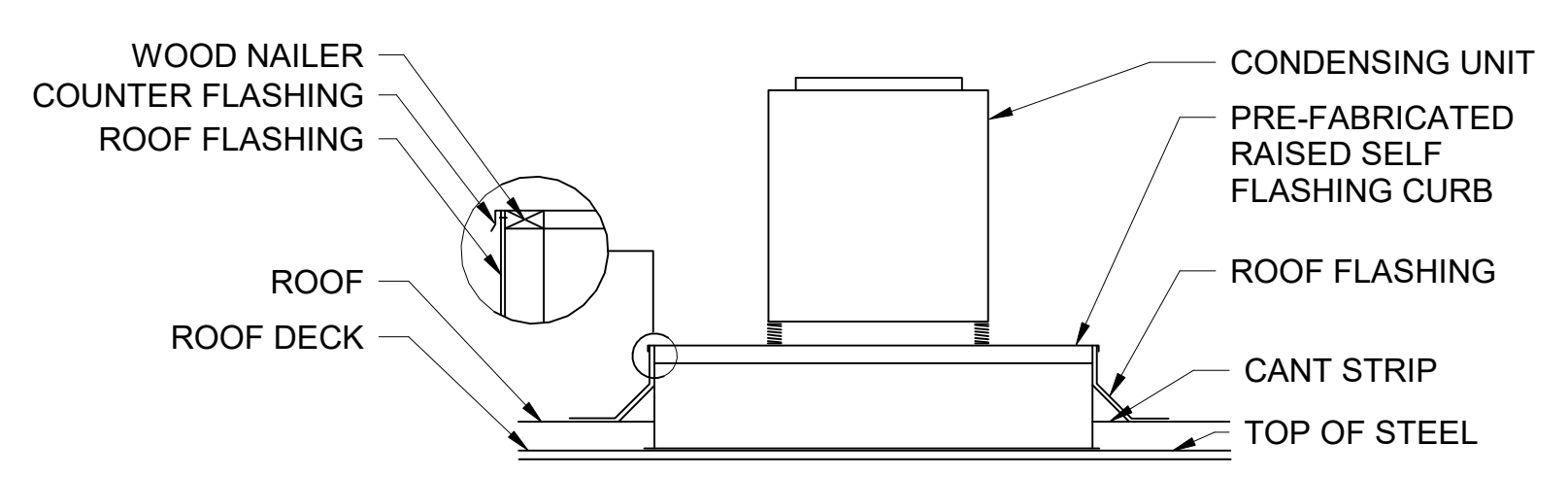
① DEDICATED OUTDOOR AIR SYSTEM (DOAS) DETAIL  
 N.T.S.



④ MOTOR OPERATED DAMPER DETAIL  
 N.T.S.

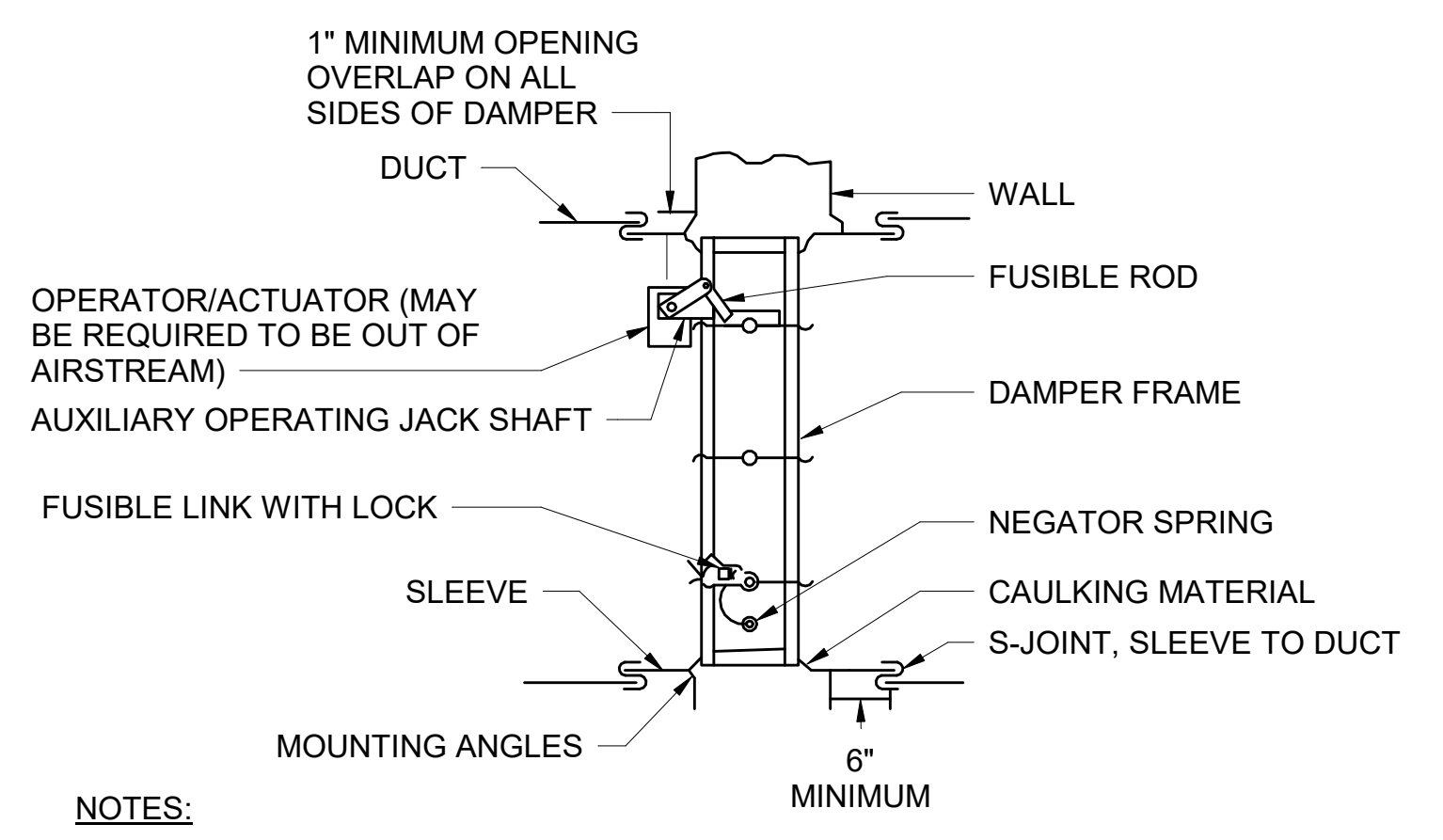


⑦ SPIRAL OVAL DUCT AND LINING DETAIL  
 N.T.S.



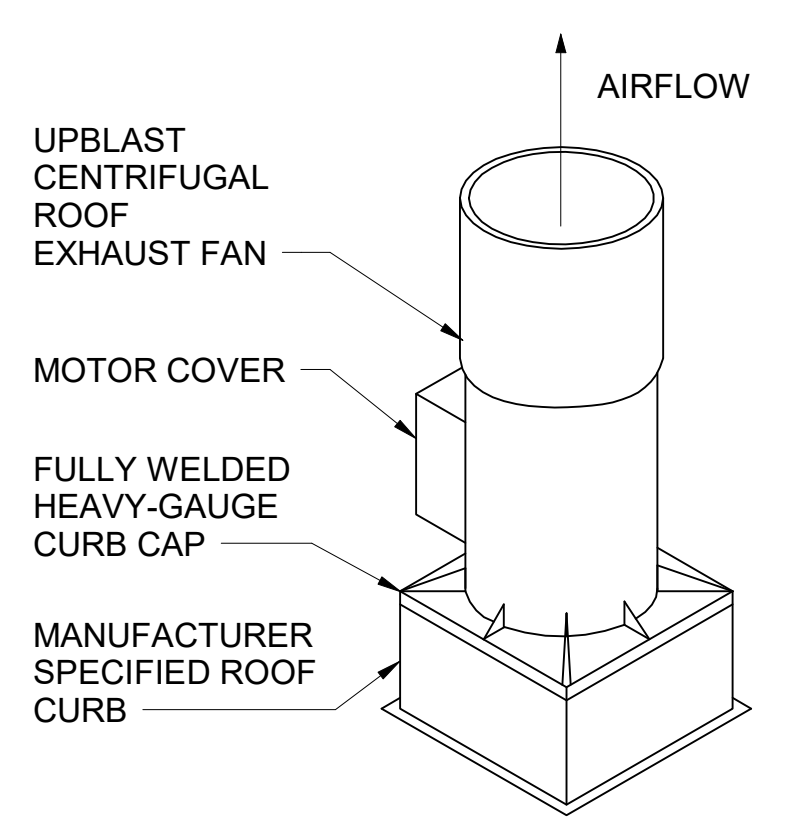
- NOTES:**
1. ROOF CURB SHALL BE MOUNTED ON TOP OF STEEL
  2. ROOF CONDITIONS AND STRUCTURAL DECK VARY. CONTRACTOR TO VERIFY EXISTING CONDITIONS.
  3. ALL ROOFING, ROOFING REPAIR AND FLASHING MATERIALS, DETAILS AND METHODS OF INSTALLATION AT EXISTING WARRANTED ROOFING SURFACES SHALL BE APPROVED BY THE WARRANTOR OF SUCH ROOFING TO ASSURE THE CONTINUITY OF EXISTING WARRANTIES.
  4. CONTRACTOR SHALL UTILIZE A ROOFING CONTRACTOR CERTIFIED TO WORK ON THE EXISTING ROOF AND MAINTAIN ALL EXISTING WARRANTIES

② VRF CONDENSING UNIT MOUNTING DETAIL  
 N.T.S.

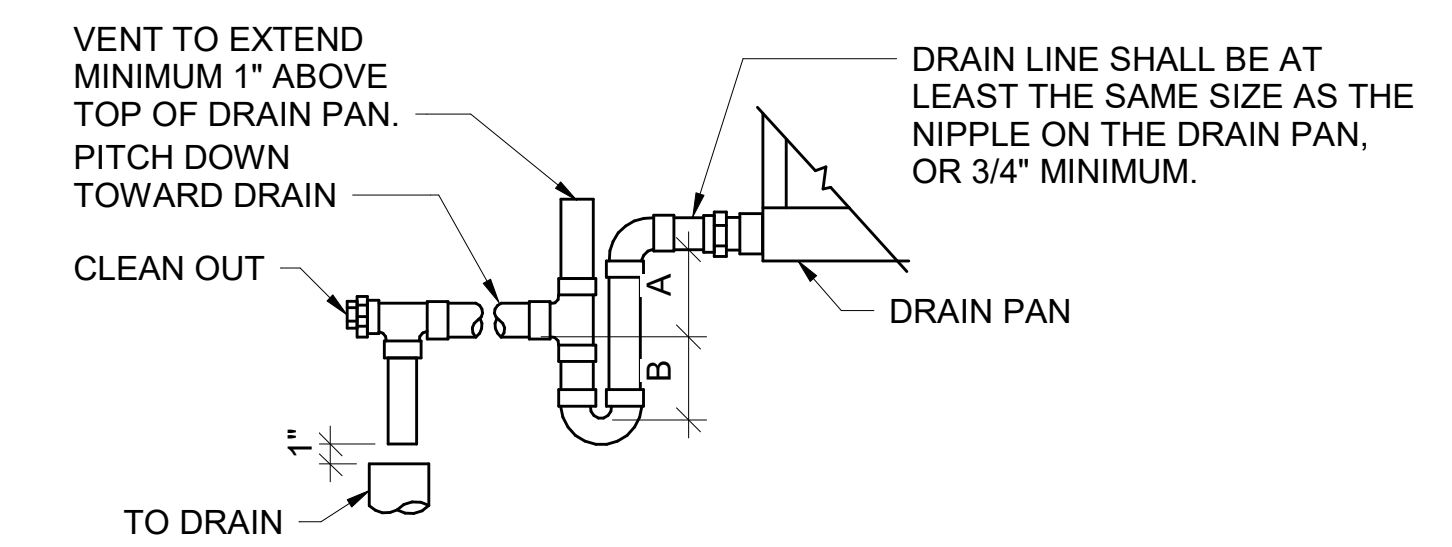


- NOTES:**
1. ENTIRE INSTALLATION SHALL COMFORM TO SMACNA STANDARDS.
  2. FIRE DAMPER MODE OPERATION: HIGH TEMPERATURE MELTS FUSIBLE LINK, CLOSING DAMPER.

⑤ FIRE DAMPER  
 N.T.S.



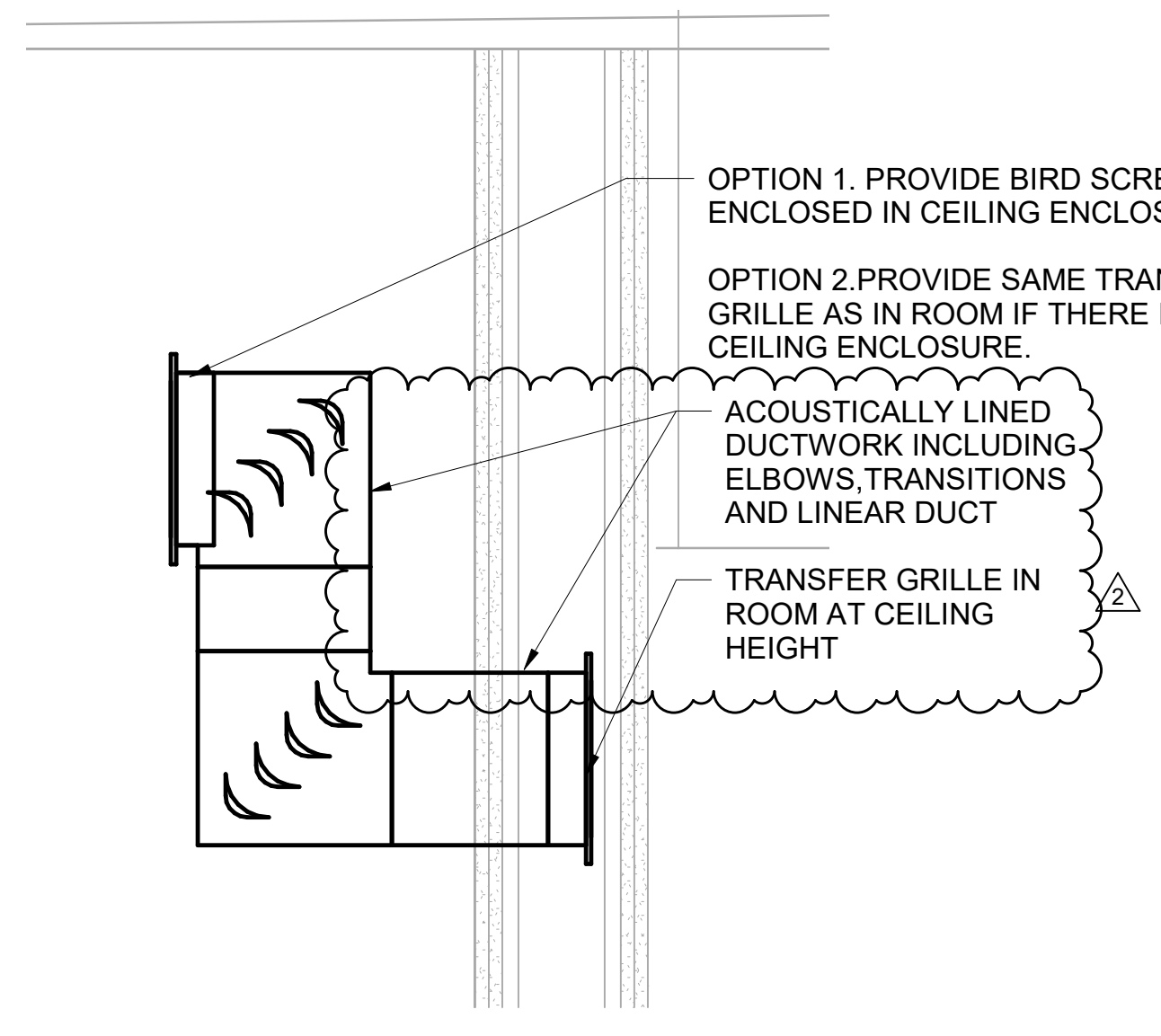
⑧ UPBLAST ROOF EXHAUST FAN DETAIL  
 N.T.S.



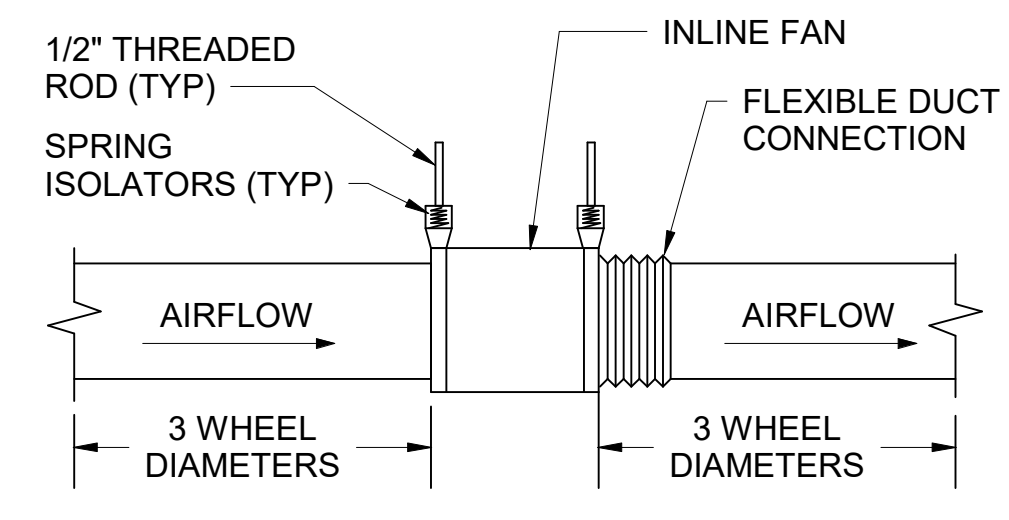
UNIT TYPE	A	B
DRAW THRU	2" PLUS X	X
BLOW THRU	1" MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

③ CONDENSATE DRAIN AND TRAP DETAIL  
 N.T.S.



⑥ TRANSFER DUCT WITH ACOUSTICALLY LINED ELBOW  
 N.T.S.



⑨ INLINE EXHAUST FAN DETAIL  
 N.T.S.



GAS FIRED HEAT RECOVERY VAV ROOFTOP UNIT SCHEDULE																					
TAG	LOCATION	AREA SERVED	SUPPLY	OUTSIDE	EXHAUST	RELIEF	SUPPLY FANS			EXHAUST FANS			ENTHALPY WHEEL-SUMMER				ENTHALPY WHEEL-WINTER				WHEEL MOTOR (HP)
			CFM	CFM	CFM	CFM	NUMBER	MOTOR (HP) EACH	MAX ESP (IN WC)	NUMBER	MOTOR (HP) EACH	MAX ESP (IN WC)	EAT DB (F)	EAT WB (F)	LAT DB (F)	LAT WB (F)	EAT DB (F)	EAT WB (F)	LAT DB (F)	LAT WB (F)	
DOAS 14-1	LEVEL 14 ROOF	LEVEL 8, 9, 10	5,000	5,000	4,000	4,000	1	10	3.5	1	8.0	3.5	95.0	78.0	84.0	70.2	10.0	8.0	44.3	35.0	0.17

GAS FIRED HEAT RECOVERY VAV ROOFTOP UNIT SCHEDULE CONTINUED																												
COOLING DATA								HEATING DATA						HOT GAS REHEAT COIL				ELECTRICAL				DIMENSIONS (IN)			WEIGHT (LBS)	BASIS OF DESIGN MANUFACTURER/MODEL	REMARKS	
NOMINAL TONS	CAP TOTAL (BTUH)	CAP SENS (BTUH)	OAT (F)	EAT DB (F)	EAT WB (F)	LAT DB (F)	LAT WB (F)	GAS PRESS MIN (IN WC)	GAS PRESS MAX (IN WC)	STAGES	INPUT (BTUH)	OUTPUT (BTUH)	EAT (F)	LAT (F)	FACE AREA (SQFT)	TOTAL CAP. (BTUH)	LAT DB (F)	LAT WB (F)	MOCP	FLA	MCA	V/PH	L	W				H
24	291,065	177,026	95.0	84.0	70.2	51.6	51.6	7	14	4	300	240.0	44.3	88.6	21.6	99598	70.0	58.7	90	63.5	69.3	460/3	206	77	71	4,441	DAIKIN - DPS025A	1-2
NOTES:																				1. PROVIDE PLENUM ROOF CURB, ENTHALPY WHEEL WITH FROST CONTROL AND BYPASS DAMPERS, INTERNAL VIBRATION ISOLATION WITH 2" DEFLECTION, MERV 13 FILTERS, DISCHARGE AIR CONTROL, BACNET, SINGLE POINT CONNECTION AND DISCONNECT.								
2. ALUMINUM TUBE MICRO-CHANNEL HOT GAS REHEAT COIL.																												
3. PROVIDE INVERTER COMPRESSOR(S), MODULATING HOT GAS REHEAT, NON-FUSED DISCONNECT SWITCH, DDC CONTROL WITH FACTORY INSTALLED BACnet COMMUNICATION MODULE, FIELD POWERED 115V GFI OUTLET, STAINLESS STEEL DRIP PAN, DIRECT DRIVE SUPPLY FAN WITH VFD, DIRECT DRIVE EXHAUST FAN WITH EC MOTOR, ECM CONDENSER FANS, ENERGY RECOVERY WHEEL, STAINLESS STEEL GAS HEAT EXCHANGER, DUCT MOUNTED CO2 SENSOR AND OUTSIDE AIR MONITORING STATION.																												
4. PROVIDE DOUBLE WALL CONSTRUCTION WITH 2" INJECTED FOAM, R13, 10 YEAR HEAT EXCHANGER WARRANTY AND 5 YEAR COMPRESSOR WARRANTY.																												

AIR COOLED CONDENSING UNIT SCHEDULE															
MARK	SERVICE	LOCATION	NOMINAL COOLING TONS	EER	COOLING MBH	HEATING MBH	HEATING KW	ELECTRICAL		V/PH/Hz	MANUFACTURER	MODEL	MAXIMUM DIMENSIONS (L"XW"XH")	MAXIMUM WEIGHT (LBS)	REMARKS
								MCA	MOCP						
CU-12.1	LEVEL 8	LEVEL 12	12	11.6	168	188	55.1	31.1	40	460/3/60	DAIKIN	REYQ168XAYDA	49X31X67	795	SEE NOTES
CU-12.2	LEVEL 10	LEVEL 12	12	11.6	168	188	55.1	31.1	40	460/3/60	DAIKIN	REYQ168XAYDA	49X31X67	795	
CU-12.3A	LEVEL 9	LEVEL 12	8	12.5	96	108	31.7	21.1	25	460/3/60	DAIKIN	REYQ96XAYDA	49X31X67	730	
CU-12.3B	LEVEL 9	LEVEL 12	10	12.3	120	135	36.6	21.1	25	460/3/60	DAIKIN	REYQ120XAYDA	49X31X67	730	
NOTES:															1. MANUFACTURER MUST BE CERTIFIED, LISTED, AND LABELED PER AHRI 1230.
2. PROVIDE WITH FULLY MODULATING COMPRESSORS.															
3. INSTALL MANUFACTURER SUPPLIED REFNET BRANCH PIPING KIT PER MANUFACTURER.															
4. PROVIDE WITH ALL PARTS, COMPONENTS, ACCESSORIES AND PIPING SPECIALTIES AS REQUIRED AND/OR RECOMMENDED BY THE UNIT MANUFACTURER GUIDELINES AND APPROVED LOCATIONS.															
5. PROVIDE COMPLETE CONTROL SYSTEM, I-TOUCH MANAGER CONTROLLER FOR INDOOR AND OUTDOOR UNITS.															
6. PROVIDE WITH 5 YEAR COMPRESSOR AND PARTS WARRANTY.															
7. PROVIDE REQUIRED SOFTWARE/HARDWARE FOR BUILDING CONTROL SYSTEM INTERFACE.															
8. PROVIDE REFRIGERANT CHARGE PER MANUFACTURER'S REQUIREMENTS.															
9. PROVIDE WITH INTEGRAL GROUND FAULT CIRCUIT BREAKER.															
10. PROVIDE WITH DISCONNECT SWITCH FOR EACH MODULE.															
11. PERFORMANCE MUST BE DE-RATED FOR ALL COMPONENTS AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO LINE LENGTH, VERTICAL SEPARATION, DESIGN CONDITIONS, AND CONDENSER COIL COATING.															
12. PROVIDE WITH R410A.															
13. SYSTEM MUST PROVIDE CONTINUOUS HEATING DURING DEFROST AND OIL RETURN.															
14. DESIGN CONDITIONS ARE BASED ON 93°F DB AND 78° WB FOR SUMMER AND 10°F DB FOR WINTER FOR OUTSIDE AIR.															
15. PROVIDE SHOP DRAWING SUBMITTAL FOR LAYOUT OF REFRIGERANT PIPING, INTERLOCK WIRING AND ALL DEVICES.															

EXHAUST FAN SCHEDULE															
TAG	FAN TYPE	SERVICE	DRIVE	AIRFLOW (CFM)	E.S.P. (IN. WG)	FAN RPM	VOLUME CONTROL	MOTOR				EMERGENCY POWER (Y/N)	BASIS OF DESIGN		REMARKS
								HP	RPM	VOLT	PH		MANUFACTURER	MODEL	
EF-14.1	INLINE CENTRIFUGAL	LEVEL 8, 9, 10	DIRECT	7,000	4.37	2998	-	10	3,600	460	3	Y	GREENHECK	QEI-16	1-3
EF-10.1	INLINE CENTRIFUGAL	TOILETS AND SHOWER ROOMS	DIRECT	595	1.00	1810	-	3/4	-	120	1	Y	GREENHECK	SQ-99-VG	1-2
NOTES:															1. FAN STATUS SHALL BE MONITORED AND REPORTED AT THE BAS SYSTEM VIA CT IN THE FAN MOTOR LEADS.
2. PROVIDE NON-FUSED DISCONNECT SWITCH WITH EACH FAN, WIRED BY ELECTRICAL CONTRACTOR.															
3. PROVIDE MANUFACTURER SPECIFIED ROOF CURB															

BLOCK CONTROLLER SCHEDULE																	
DESIGNATION	LOCATION	ELECTRICAL DATA								POWER TYPE			BASIS OF DESIGN		REMARKS		
		V	PH	Hz	MOCP	MCA	DISCONNECT	STARTER	DISCONNECT / STARTER BY:	EM PWR	STDBY PWR	NM POWER	MANUFACTURER	MODEL			
BC.8.1	LEVEL 8	-	-	-	-	-	-	-	-	-	-	YES	-	-	-	-	1
BC.8.2	LEVEL 8	208	1	60	15	0.8	YES	N/A	MANUFACTURER	-	-	YES	DAIKIN	BS8Q54TVJ	-	1	
BC.8.3	LEVEL 8	208	1	60	15	0.6	YES	N/A	MANUFACTURER	-	-	YES	DAIKIN	BS6Q54TVJ	-	1	
BC.8.4	LEVEL 8	208	1	60	15	0.6	YES	N/A	MANUFACTURER	-	-	YES	DAIKIN	BS6Q54TVJ	-	1	
BC.9.1	LEVEL 9	-	-	-	-	-	-	-	-	YES	-	-	-	-	-	1	
BC.9.2	LEVEL 9	-	-	-	-	-	-	-	-	YES	-	-	-	-	-	1	
BC.9.3	LEVEL 9	-	-	-	-	-	-	-	-	YES	-	-	-	-	-	1	
BC.9.4	LEVEL 9	208	1	60	15	0.8	YES	N/A	MANUFACTURER	-	-	YES	DAIKIN	BS8Q54TVJ	-	1	
BC.9.5	LEVEL 9	208	1	60	15	0.4	YES	N/A	MANUFACTURER	-	-	YES	DAIKIN	BS4Q54TVJ	-	1	
BC.9.6	LEVEL 9	208	1	60	15	0.8	YES	N/A	MANUFACTURER	-	-	YES	DAIKIN	BS8Q54TVJ	-	1	
BC.10.1	LEVEL 10	-	-	-	-	-	-	-	-	YES	-	-	-	-	-	1	
BC.10.2	LEVEL 10	-	-	-	-	-	-	-	-	YES	-	-	-	-	-	1	
BC.10.3	LEVEL 10	208	1	60	15	0.8	YES	YES	YES	-	-	YES	DAIKIN	BS8Q54TVJ	-	1	
BC.10.4	LEVEL 10	208	1	60	15	0.8	YES	YES	YES	-	-	YES	DAIKIN	BS8Q54TVJ	-	1	
BC.10.5	LEVEL 10	208	1	60	15	0.8	YES	N/A	MANUFACTURER	-	-	YES	DAIKIN	BS8Q54TVJ	-	1	
NOTES:															1. EXISTING BLOCK CONTROLLER TO BE RE-USED AND CONNECTED TO INDOOR VRF UNITS AS SHOWN ON PLANS.		
2. SIZE TRAP AND CONNECT REFRIGERANT PIPING FOR THE BLOCK CONTROLLERS PER MANUFACTURER'S GUIDELINES.																	
3. BLOCK CONTROLLERS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.																	
4. ENGAGE MANUFACTURER'S FIELD SERVICE TECHNICIAN TO PROVIDE WARRANTY START-UP SUPERVISION AND ASSIST IN PROGRAMMING OF CONTROLS.																	
5. COORDINATE WITH THE ELECTRICAL ENGINEER REGARDING ELECTRICAL REQUIREMENTS.																	



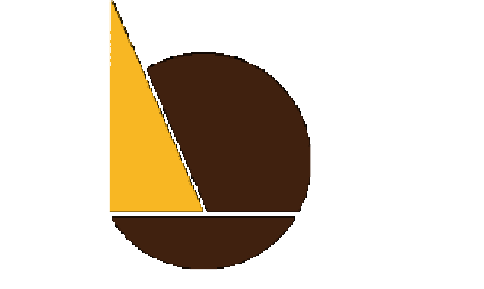
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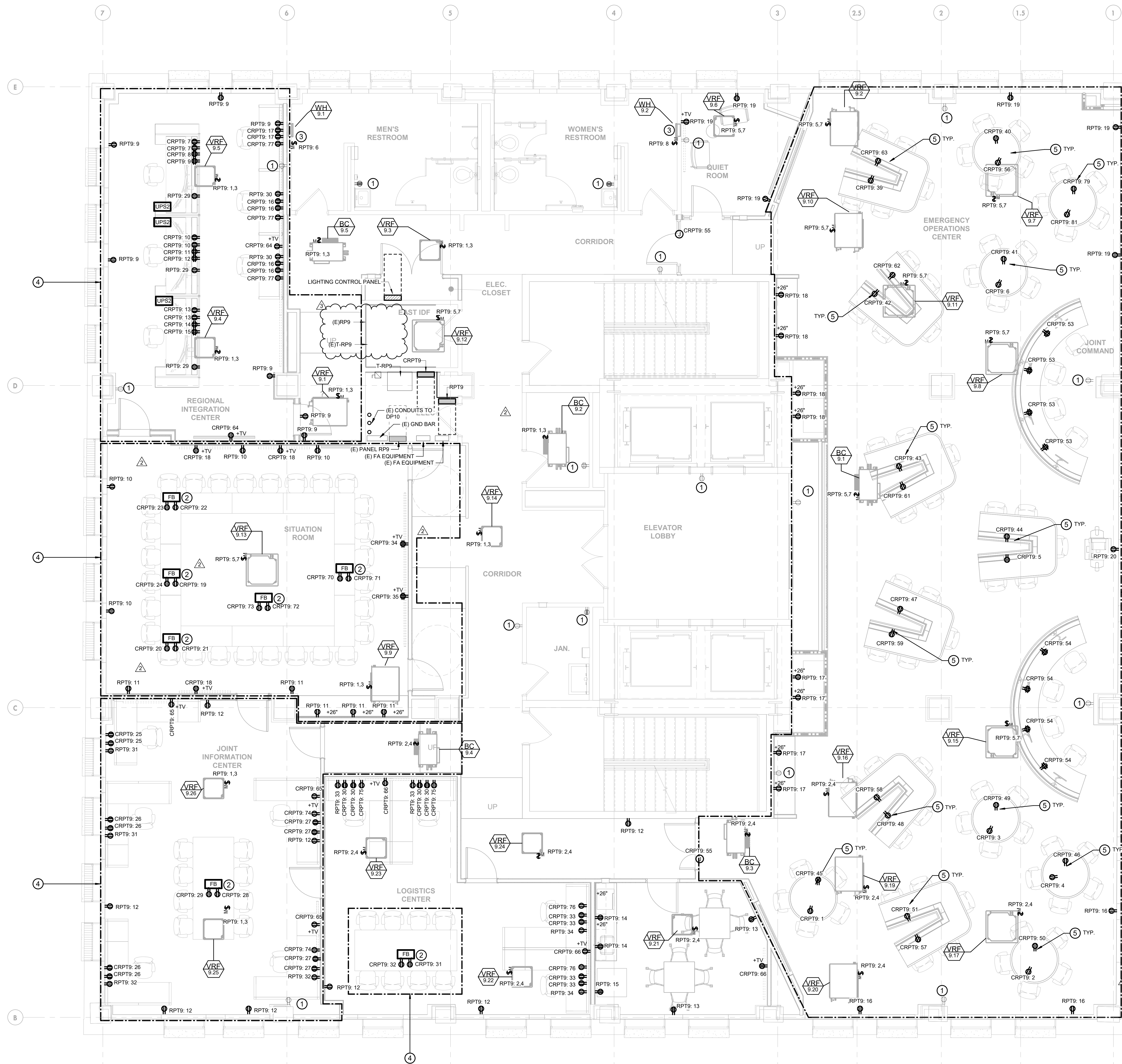
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CHECKED BY: DJM

DRAWING TITLE:  
MECHANICAL SCHEDULES

SHEET NO:  
M-701





**GENERAL NOTES:**

- REFER TO SHEET E-002 FOR GENERAL NOTES AND SHEET E-001 FOR SYMBOLS AND ABBREVIATIONS.
- COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.
- THIS PROJECT SHALL COMPLY WITH NEC SECTION 708 FOR CRITICAL OPERATIONS POWER SYSTEMS WHERE APPLICABLE. ALL NEW WORK TO BE FURNISHED AND INSTALLED BY THE EC SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF NEC 708.
- THE ENTIRETY OF LEVELS 8, 9, AND 10 OF THE PPSB IS THE DESIGNATED CRITICAL OPERATIONS AREA (COA) AS DEFINED BY NEC 708.2.
- ALL ELECTRICAL EQUIPMENT AND RECEPTACLES SHALL BE LABELED WITH BRANCH CIRCUIT INFORMATION (PANEL AND CIRCUIT NUMBER). IN ADDITION, PER NEC 708.10.A, ALL COPS FED EQUIPMENT SHALL BE MARKED TO READILY IDENTIFY THEM AS COPS FED EQUIPMENT. BOXES AND ENCLOSURES SHALL BE MARKED "COPS SYSTEM COMPONENT". RECEPTACLE COVER PLATES SHALL BE MARKED WITH "COPS".
- EC SHALL FURNISH ALL RECEPTACLE SELECTIONS IN ACCORDANCE WITH NEC 708.10.2 WHICH REQUIRES NONLOCKING-TYPE, 125-VOLT, 15- AND 20-AMPERE RECEPTACLES SUPPLIED FROM THE COPS SHALL HAVE AN ILLUMINATED FACE OR INDICATOR LIGHT TO INDICATE THAT THERE IS POWER TO THE RECEPTACLE.
- EC TO COORDINATE FINAL LOCATION OF ALL DISTRIBUTION EQUIPMENT IN FIELD PRIOR TO INSTALLATION.
- EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION. ALL GIVEN LOADS HAVE BEEN ACCOUNTED FOR IN LOAD CALCULATIONS. SEE CALCULATIONS FOR ADDITIONAL DETAILS.
- EC SHALL REFER TO ARCHITECTURAL PLANS TO COORDINATE ROUTING IN AREAS WITH RAISED FLOOR ASSEMBLIES. IN THESE SPACES, THE INTENT IS TO ROUTE RACEWAY BENEATH RAISED FLOOR AND STUB UP CONDUITS AT POWER CONNECTION LOCATIONS THROUGH THE RAISED FLOOR, WHERE POWER CONNECTION EQUIPMENT (IE RECEPTACLES, JUNCTION BOXES, SWITCHES, ETC.) IS SHOWN ON OR WITHIN A PIECE OF FURNITURE. THE INTENT IS FOR IT TO BE MOUNTED TO THE INTERIOR STRUCTURE OF THE FURNITURE THEY ARE SHOWN TO BE INSTALLED AT. COORDINATE MOUNTING LOCATIONS WITH ARCHITECT AND FURNITURE SELECTIONS.
- RACEWAYS ON LEVEL 9 SHALL BE CONCEALED AS MUCH AS POSSIBLE. WHERE RACEWAY MUST TRANSITION FROM OVERHEAD TO GRADE TO TRANSITION INTO RAISED FLOOR, THE VERTICAL TRANSITIONS SHALL BE CONCEALED WITHIN WALLS.

**KEYED NOTES: (#)**

- EC SHALL FURNISH AND INSTALL A NEW RECEPTACLE IN COMPLIANCE WITH NEC 708.10.2. EC SHALL ENSURE THAT NEW RECEPTACLE MATCHES ALL OTHER FEATURES OF EXISTING RECEPTACLE THAT WAS REPLACED (IE, GFI, WP, ETC.).
- EC SHALL FURNISH AND INSTALL WIRING AND CONDUIT TO SHARE-USE FLOOR BOX AND PROVIDE (2) DUPLEX RECEPTACLES MOUNTED WITHIN FLOOR BOX. FLOOR BOX AND RECESSED COVER TO BE FURNISHED AND INSTALLED BY THE RAISED FLOOR INSTALLER. COORDINATE WORK WITH DATACOMMS CONTRACTOR FOR INSTALLATION OF THEIR DATA EQUIPMENT TO ENSURE PHYSICAL SEPARATION IS PROVIDED BETWEEN POWER AND DATA WIRING PER NEC REQUIREMENTS. COORDINATE FINAL INSTALLATION LOCATION IN FIELD WITH RAISED FLOOR INSTALLER.
- EC SHALL FURNISH AND INSTALL 20A, 120V, SINGLE POLE MOTOR RATED TOGGLE FOR POWER SUPPLY AND LOCAL DISCONNECT OF WALL HEATER. COORDINATE INSTALLATION LOCATION.
- AREA TO BE FIT-OUT WITH RAISED FLOOR. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION. ALL RACEWAY FROM POWER PANEL TO WORKSTATION FURNITURE IN THIS AREA SHALL BE ROUTED BENEATH RAISED FLOOR AND STUB UP AT FURNITURE. MC CABLE IS ACCEPTABLE FOR FINAL CONNECTIONS, WHERE APPLICABLE. COORDINATE INSTALLATION IN FURNITURE WITH MILLWORK TO BE DONE BY OTHERS.
- FURNISH AND INSTALL THE RECEPTACLES MOUNTED TO FURNITURE FOR PLUG CONNECTIONS AND POWER SUPPLY TO THE INTEGRAL FURNITURE MOUNTED POWER STRIPS SUPPLIED WITH THE WORKSTATION FURNITURE. COORDINATE FINAL INSTALLATION LOCATION WITH FURNITURE INSTALLATION.
- NOT USED.
- NOT USED.
- NOT USED.



**IEI ARCHITECTS, INC.**  
 428 North 2nd Street  
 Philadelphia, PA 19123  
 Telephone: 215.413.3700

**ARORA**  
 Arora Engineers, Inc.  
 61 Wilmington-West Chester Pike  
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 FLOORS 8, 9 AND 10**

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**ISSUED FOR BIDS**  
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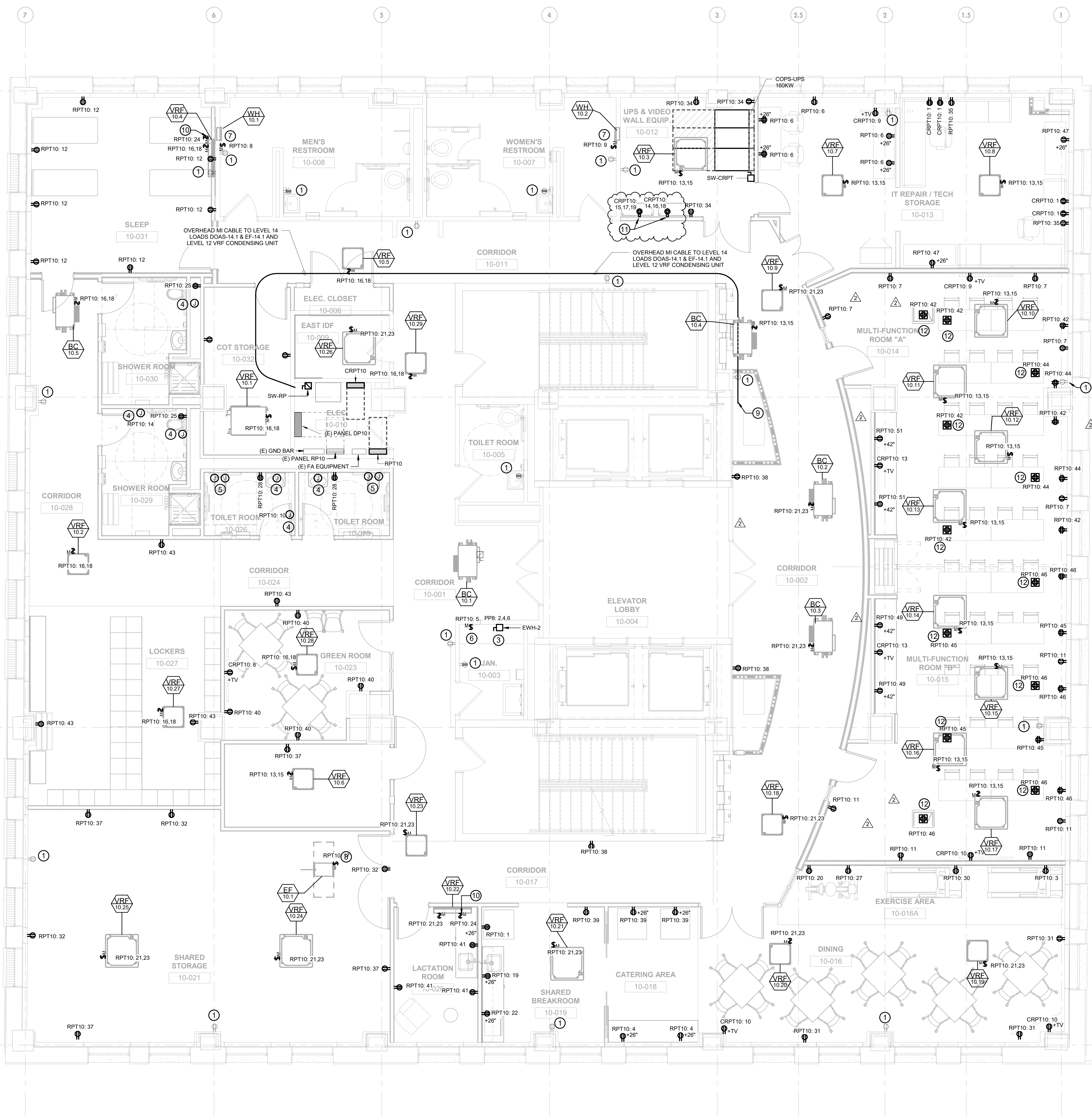
PROJECT NUMBER: 304103-120 OC  
 SCALE: 1/4" = 1'-0"  
 DATE: 07/07/2020  
 DRAWN BY: MM  
 CHECKED BY: VDM

DRAWING TITLE:  
**ELECTRICAL 9TH FLOOR NEW WORK PLAN**

SHEET NO:  
**E-109**

1 ELECTRICAL NEW WORK PLAN - NINTH FLOOR  
 1/4" = 1'-0"





**GENERAL NOTES:**

- REFER TO SHEET E-002 FOR GENERAL NOTES AND SHEET E-001 FOR SYMBOLS AND ABBREVIATIONS.
- COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.
- THIS PROJECT SHALL COMPLY WITH NEC SECTION 708 FOR CRITICAL OPERATIONS POWER SYSTEMS WHERE APPLICABLE. ALL NEW WORK TO BE FURNISHED AND INSTALLED BY THE EC SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF NEC 708.
- THE ENTIRETY OF LEVELS 8, 9, AND 10 OF THE PPSB IS THE DESIGNATED CRITICAL OPERATIONS AREA (COA) AS DEFINED BY NEC 708.2.
- ALL ELECTRICAL EQUIPMENT AND RECEPTACLES SHALL BE LABELED WITH BRANCH CIRCUIT INFORMATION (PANEL AND CIRCUIT NUMBER) IN ADDITION, PER NEC 708.10.A, ALL COPS FED EQUIPMENT SHALL BE MARKED TO READILY IDENTIFY THEM AS COPS FED EQUIPMENT. BOXES AND ENCLOSURES SHALL BE MARKED "COPS SYSTEM COMPONENT". RECEPTACLE COVER PLATES SHALL BE MARKED WITH "COPS".
- EC SHALL FURNISH ALL RECEPTACLE SELECTIONS IN ACCORDANCE WITH NEC 708.10.2 WHICH REQUIRES NONLOCKING-TYPE, 125-VOLT, 15- AND 20-AMPERE RECEPTACLES SUPPLIED FROM THE COPS SHALL HAVE AN ILLUMINATED FACE OR AN INDICATOR LIGHT TO INDICATE THAT THERE IS POWER TO THE RECEPTACLE.
- EC TO COORDINATE FINAL LOCATION OF ALL DISTRIBUTION EQUIPMENT IN FIELD PRIOR TO INSTALLATION.
- EC TO COORDINATE ALL HVAC AND PLUMBING EQUIPMENT LOCATIONS IN FIELD PRIOR TO CIRCUIT INSTALLATION. ALL GIVEN LOADS HAVE BEEN ACCOUNTED FOR IN LOAD CALCULATIONS. SEE CALCULATIONS FOR ADDITIONAL DETAILS.

**KEYED NOTES: (#)**

- EC SHALL FURNISH AND INSTALL A NEW RECEPTACLE IN COMPLIANCE WITH NEC 708.10.2. EC SHALL ENSURE THAT NEW RECEPTACLE MATCHES ALL OTHER FEATURES OF EXISTING RECEPTACLE THAT WAS REPLACED (IE. GFI, WP, ETC.).
- NOT USED.
- EC SHALL FURNISH AND INSTALL 30A, 480V, 3 POLE DISCONNECT SWITCH FOR POWER SUPPLY TO EWH-2.
- POWER CONNECTION TO LV TRANSFORMER FOR RESTROOM AUTOMATIC EQUIPMENT. SEE WIRING DETAIL ON E-601 FOR MORE INFORMATION. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR AND MANUFACTURER'S INSTALLATION REQUIREMENTS.
- SEE FLUSH VALVE WIRING DIAGRAM AND RESTROOM WIRING DIAGRAM FOR INSTALLATION INFORMATION.
- EC SHALL FURNISH AND INSTALL 15A, 120V, SINGLE POLE MOTOR RATED TOGGLE SWITCH NEXT FOR POWER SUPPLY TO RECIRCULATION PUMP RP-1.
- EC SHALL FURNISH AND INSTALL 20A, 120V, SINGLE POLE MOTOR RATED TOGGLE SWITCH FOR POWER SUPPLY AND LOCAL DISCONNECT OF WALL HEATER. COORDINATE INSTALLATION LOCATION.
- EC SHALL FURNISH AND INSTALL 30A, 120V, SINGLE POLE MOTOR RATED TOGGLE SWITCH ON EF-10.1 FOR POWER SUPPLY AND LOCAL DISCONNECT.
- CONDUITS SHALL ROUTE UP THROUGH LEVELS 11 THROUGH 13 VERTICALLY. COORDINATE INSTALLATION IN LEVEL 11 TO 13 SPACES WITH BUILDING OWNER AND TENANTS. CONDUITS TO MECHANICAL EQUIPMENT SHALL TRANSITION HORIZONTALLY ON THE CEILING OF THE LEVELS BELOW THE MECHANICAL EQUIPMENT INSTALLATION AND STUB UP DIRECTLY BENEATH THE LOCATION OF THE LOCAL DISCONNECT SWITCH FOR THE RESPECTIVE EQUIPMENT.
- EC SHALL FURNISH AND INSTALL 20A, 120V, SINGLE POLE MOTOR RATED TOGGLE FOR POWER SUPPLY AND LOCAL DISCONNECT OF WALL MOUNTED VRF UNIT CONDENSATE PUMP.
- NEMA L21-20R RECEPTACLE FOR CONNECTIONS TO VIDEO WALL RACKS.
- EC SHALL PROVIDE FLOOR CORE PENETRATION. COORDINATE LOCATION IN FIELD WITH ARCHITECT'S FURNITURE LAYOUT.



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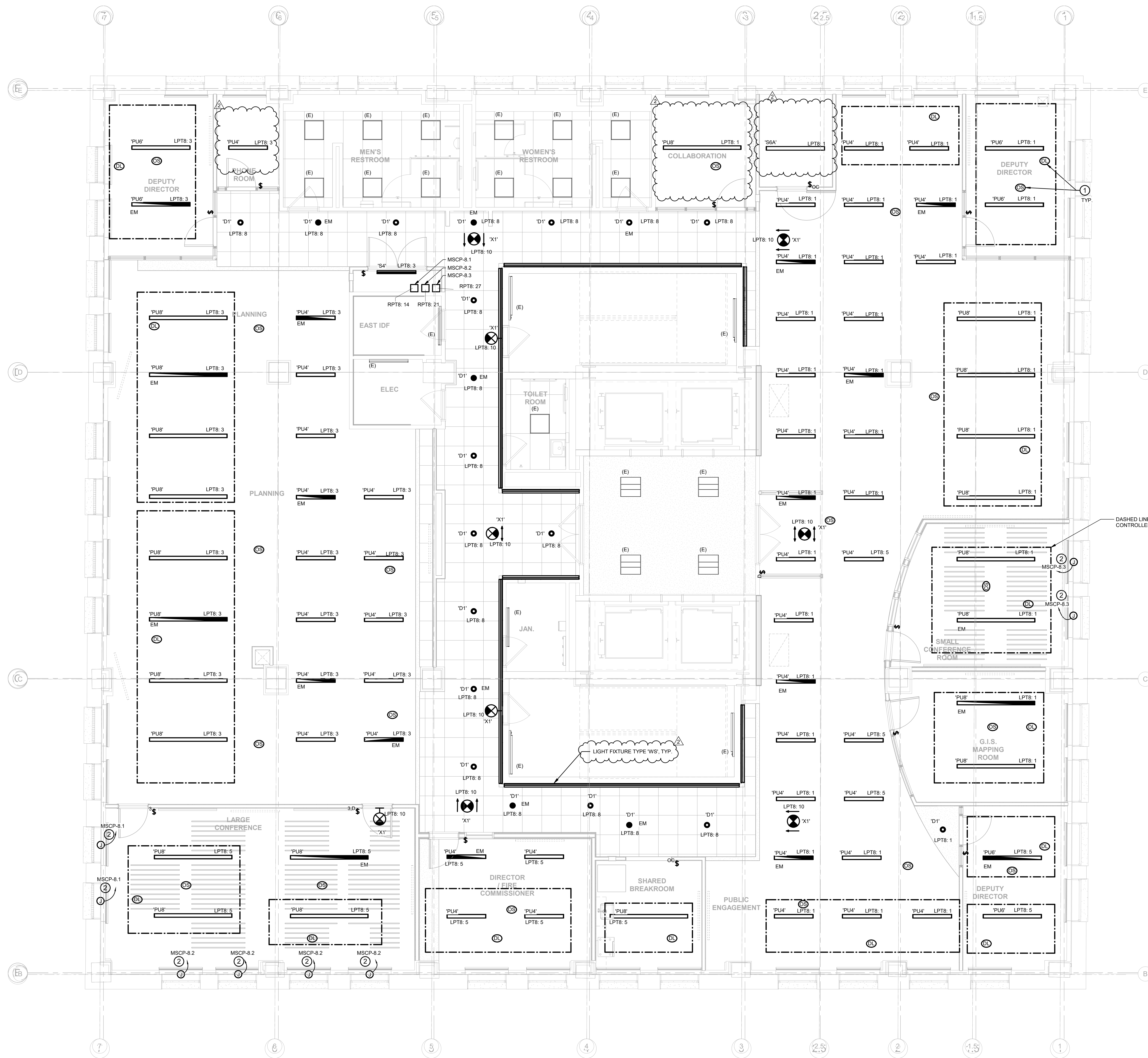
PROJECT NUMBER: 304103-120-CC  
 SCALE: 1/4" = 1'-0"  
 DATE: 07/07/2020  
 DRAWN BY: VM  
 CHECKED BY: VDM

DRAWING TITLE:  
**ELECTRICAL 10TH  
 FLOOR NEW WORK  
 PLAN**

SHEET NO.:  
**E-110**

1 ELECTRICAL NEW WORK PLAN - TENTH FLOOR  
 1/4" = 1'-0"





1 LIGHTING NEW WORK PLAN - EIGHTH FLOOR  
1/4" = 1'-0"

**GENERAL NOTES:**

- REFER TO SHEET E-002 FOR GENERAL NOTES AND SHEET E-001 FOR SYMBOLS AND ABBREVIATIONS.
- COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.
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- ALL LIGHT FIXTURE WITH "EM" TAG SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.
- REFER TO SHEET E-700 FOR LUMINAIRE SCHEDULE.

**KEYED NOTES: (#)**

- OCCUPANCY SENSOR AND DAY LIGHT SENSOR SHALL BE PENDANT MOUNTED AND MOUNTED AT HEIGHT BELOW CEILING COLUMNS TO MAINTAIN LINE OF SIGHT FOR COVERAGE AREA.
- FURNISH AND INSTALL MOTORIZED SHADE FOR WINDOW. PROVIDE (3) 1/2" & (1) 1/4" IN 3/4" TO MOTORIZED SHADE CONTROL PANEL (MSCP) FOR UPDOWN OPERATION.



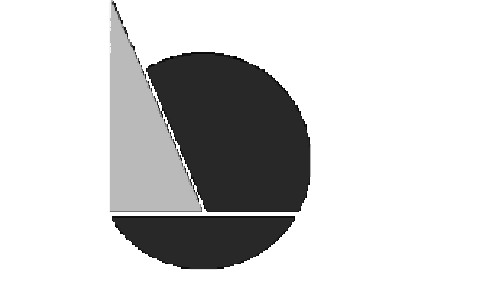
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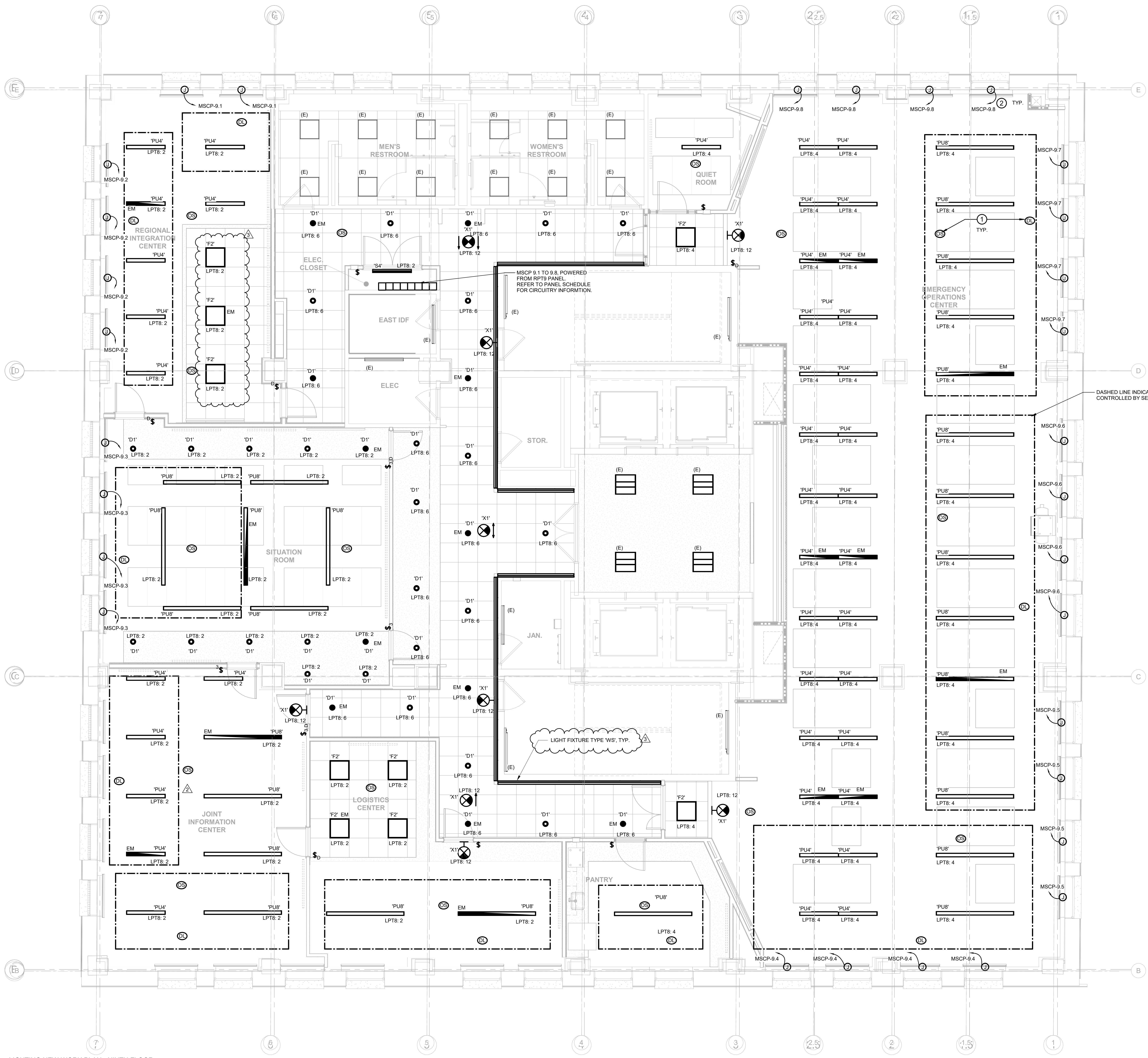
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PROJECT NUMBER: 304103-120 OC  
SCALE: 1/4" = 1'-0"  
DATE: 07/07/2020  
DRAWN BY: MM  
CHECKED BY: VDM

DRAWING TITLE:  
**LIGHTING 8TH FLOOR NEW WORK PLAN**

SHEET NO.:  
**EL-108**





1 LIGHTING NEW WORK PLAN - NINTH FLOOR  
1/4" = 1'-0"

**GENERAL NOTES:**

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- ALL LIGHT FIXTURE WITH "EM" TAG SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.
- REFER TO SHEET E-700 FOR LUMINAIRE SCHEDULE.

**KEYED NOTES:** (K)

- OCCUPANCY SENSOR AND DAY LIGHT SENSOR SHALL BE PENDANT MOUNTED AND MOUNTED AT HEIGHT BELOW CEILING COLUMNS TO MAINTAIN LINE OF SIGHT FOR COVERAGE AREA.
- FURNISH AND INSTALL MOTORIZED SHADE FOR WINDOW. PROVIDE (3) 12 & (1) 12G IN 3/4" TO MOTORIZED SHADE CONTROL PANEL (MSCP) FOR UP/DOWN OPERATION.

DASHED LINE INDICATES LIGHTS CONTROLLED BY SENSOR, TYP.



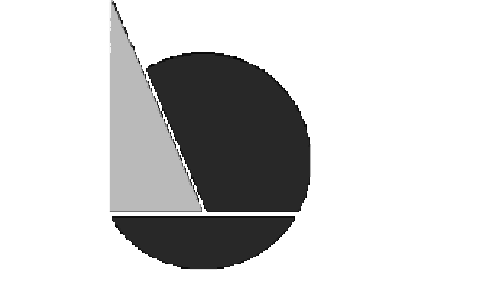
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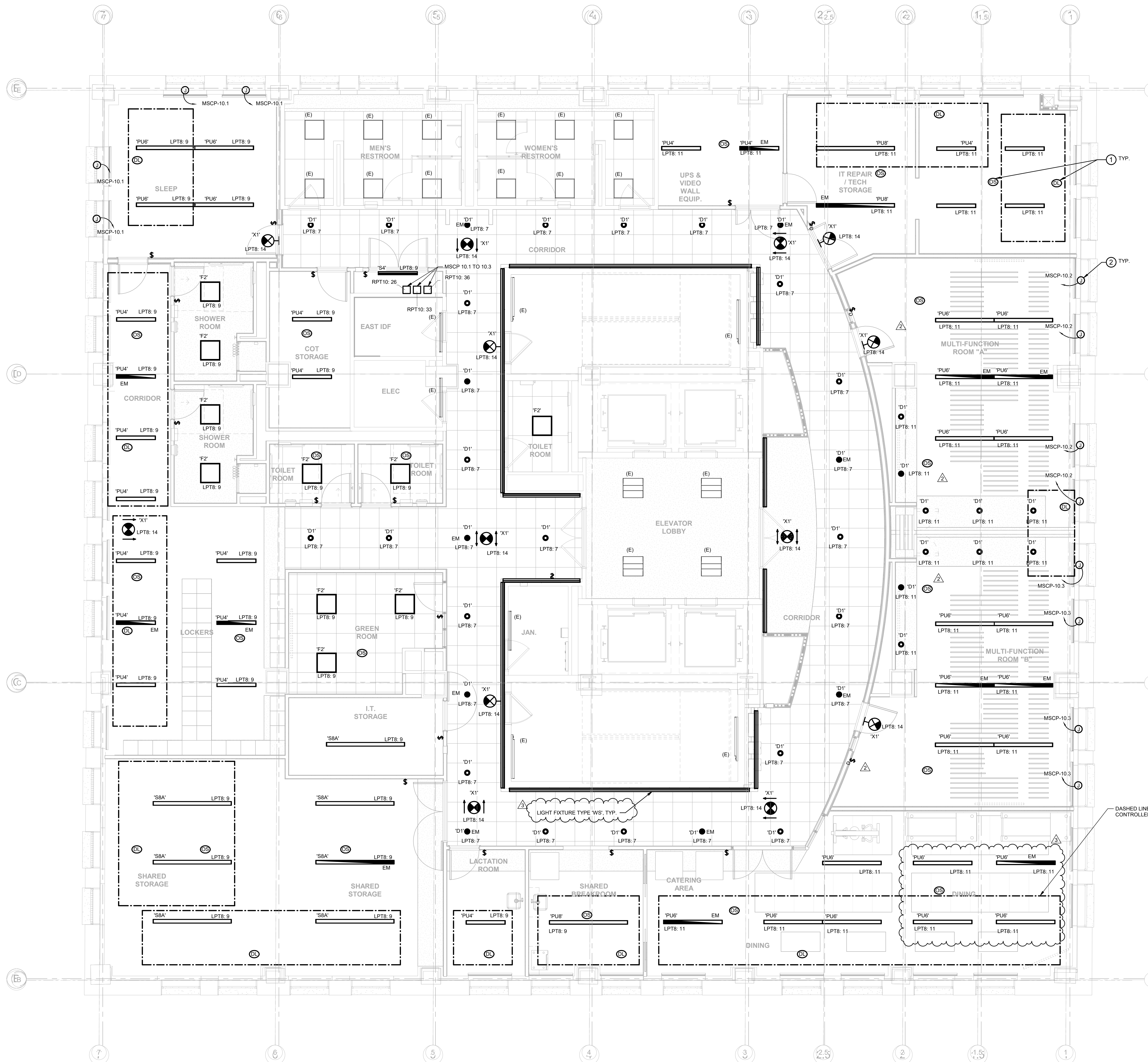
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SCALE: 1/4" = 1'-0"  
DATE: 07/07/2020  
DRAWN BY: MM  
CHECKED BY: VDM

DRAWING TITLE:  
**LIGHTING 9TH FLOOR NEW WORK PLAN**

SHEET NO:  
**EL-109**





**GENERAL NOTES:**

1. REFER TO SHEET E-002 FOR GENERAL NOTES AND SHEET E-001 FOR SYMBOLS AND ABBREVIATIONS.
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7. ALL LIGHT FIXTURE WITH "EM" TAG SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.
8. REFER TO SHEET E-700 FOR LUMINAIRE SCHEDULE.

**KEYED NOTES: (#)**

1. OCCUPANCY SENSOR AND DAY LIGHT SENSOR SHALL BE PENDANT MOUNTED AND MOUNTED AT HEIGHT BELOW CEILING COLUMNS TO MAINTAIN LINE OF SIGHT FOR COVERAGE AREA.
2. FURNISH AND INSTALL MOTORIZED SHADE FOR WINDOW. PROVIDE (3)W 12 & (1)W 25 IN 3/4" TO MOTORIZED SHADE CONTROL PANEL(MSCP) FOR UPDOWN OPERATION.



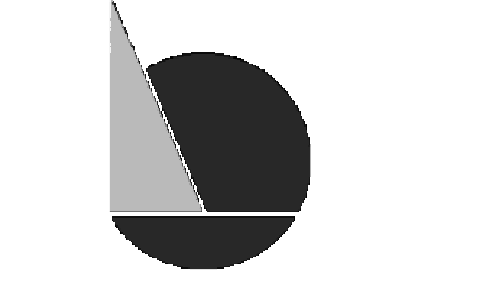
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DRAWING TITLE:  
**LIGHTING 10TH FLOOR NEW WORK PLAN**

SHEET NO.:

**EL-110**

PRINTED ON: 11/2/2020 11:17:48 AM

BIM 360/PPSSB - Office of Emergency Management/122320\_001\_PPSB-OEM\_ELEC.rvt

**1 LIGHTING NEW WORK PLAN - TENTH FLOOR**  
 1/4" = 1'-0"









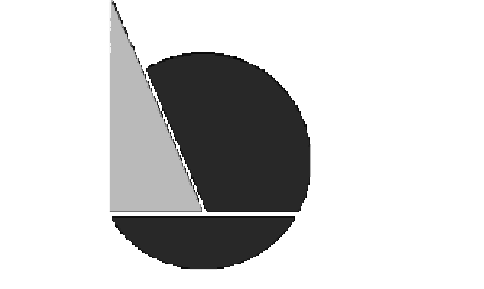
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CHECKED BY: VDM

DRAWING TITLE:  
ELECTRICAL  
SCHEDULES

SHEET NO.:

E-702

PRINTED ON: 11/2/2020 11:16:41 AM

Branch Panel: RP10 - EXISTING...												
Location: ELEC 10-010			Volts: 120/208 Wye			Main Type: MCB			K.A.I.C. Rating: 10000			
Supply From:			Phases: 3			Bus Amps: 400 A			Wires: 4			
Mounting: SURFACE			Wires: 4			Bus Amps: 400 A			MCB Rating: 250 A			
Enclosure: TYPE 1												
CKT	Description	Wiring Info	Trip	Poles	A	B	C	Poles	Trip	Wiring Info	Description	CKT
1	RECEPT - RESTROOM	--	20 A	1	0	0		1	20 A	--	RECEPT - TBD	2
3	RECEPT - TBD	--	20 A	1		0	0	1	20 A	--	RECEPT - ELEC. 009	4
5	(R) VRFI - NW	--	15 A	2	0	0	0	2	15 A	--	(R) VRFI - CW	6
7	LAV/TOILET 10-007.005	--	20 A	1		0	0	1	20 A	--	(R) PANEL RP11	8
9	LIGHTING - WEST SIDE	--	20 A	1	0	0	0	3	100 A	--	(R) PANEL RP11	10
11	LIGHTING - EAST SIDE	--	20 A	1	0	0	0	1	20 A	--	LIGHTING	12
13	LIGHTING - LOBBY, RESTROOMS, JAN...	--	20 A	1		0	0	1	20 A	--	LIGHTING	14
15	HW-1 RESTROOM 10-008	--	30 A	2	0	0	0	2	30 A	--	HW-1 RESTROOM 10-007	16
17	HW-1 TOILET 10-005	--	30 A	2		0	0	2	15 A	--	(R) VRFI - SW	18
19	(R) VRFI - SC	--	15 A	2	0	0	0	2	15 A	--	(R) VRFI - SE	20
21	(R) VRFI - CE	--	15 A	2	0	0	0	2	15 A	--	(R) VRFI - NE	22
23	(R) HW-2 JANITOR 10-003	--	20 A	1		0	0	1	20 A	--	BAS POWER 10TH FL	24
25	WATER COOLER	--	20 A	1			0	1	20 A	--		26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
55												56
57												58
59												60
Total Load:					0 VA	0 VA	0 VA					
Total Amps:					0 A	0 A	0 A					
Panel Totals												
Total Conn. Load: 0 VA												
Total Est. Demand: 0 VA												
Total Conn.: 0 A												
Total Est. Demand: 0 A												
Notes:												

Branch Panel: RP10 - PROPOSED...												
Location: ELEC 10-010			Volts: 120/208 Wye			Main Type: MCB			K.A.I.C. Rating: 10000			
Supply From:			Phases: 3			Bus Amps: 400 A			Wires: 4			
Mounting: SURFACE			Wires: 4			Bus Amps: 400 A			MCB Rating: 250 A			
Enclosure: TYPE 1												
CKT	Description	Wiring Info	Trip	Poles	A	B	C	Poles	Trip	Wiring Info	Description	CKT
1	RECEPT - RESTROOM	--	20 A	1	0	0		1	20 A	--	RECEPT - TBD	2
3	RECEPT - TBD	--	20 A	1		0	0	1	20 A	--	RECEPT - ELEC. 009	4
5	SPARE	--	15 A	2	0	0	0	2	15 A	--	SPARE	6
7	LAV/TOILET 10-007.008	--	20 A	1		0	0	1	20 A	--	(R) PANEL RP11	8
9	LIGHTING - WEST SIDE	--	20 A	1	0	0	0	3	100 A	--	SPARE	10
11	LIGHTING - EAST SIDE	--	20 A	1	0	0	0	1	20 A	--	LIGHTING	12
13	LIGHTING - LOBBY, RESTROOMS, JAN...	--	20 A	1		0	0	1	20 A	--	LIGHTING	14
15	HW-1 RESTROOM 10-008	--	30 A	2	0	0	0	2	30 A	--	HW-1 RESTROOM 10-007	16
17	HW-1 TOILET 10-005	--	30 A	2		0	0	2	15 A	--	SPARE	18
19	(R) VRFI - SW	--	15 A	2	0	0	0	2	15 A	--	SPARE	20
21	(R) VRFI - SE	--	15 A	2	0	0	0	2	15 A	--	SPARE	22
23	(R) VRFI - NE	--	15 A	2	0	0	0	2	15 A	--	SPARE	24
25	BAS POWER 10TH FL	--	20 A	1		0	0	1	20 A	--		26
27	WATER COOLER	--	20 A	1			0	1	20 A	--		28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
43												44
45												46
47												48
49												50
51												52
53												54
55												56
57												58
59												60
Total Load:					0 VA	0 VA	0 VA					
Total Amps:					0 A	0 A	0 A					
Panel Totals												
Total Conn. Load: 0 VA												
Total Est. Demand: 0 VA												
Total Conn.: 0 A												
Total Est. Demand: 0 A												
Notes:												

Branch Panel: LPT8													
Location: MAIN ELECTRICAL ROOM 08-012			Volts: 480/277 Wye			Main Type: MCB			K.A.I.C. Rating: 42				
Supply From: MDS			Phases: 3			Bus Amps: 100 A			Wires: 4				
Mounting: SURFACE			Wires: 4			Bus Amps: 100 A			MCB Rating: 100 A				
Enclosure: Type 1													
CKT	Description	Wiring Info	Trip	Poles	A	B	C	Poles	Trip	Wiring Info	Description	CKT	
1	Lighting - Level 8	2#12 & 1#12G, 3/4"C	20 A	1	2196	2307		1	20 A	2#12 & 1#12G, 3/4"C	Lighting - Level 9	2	
3	Lighting - Level 8	2#12 & 1#12G, 3/4"C	20 A	1		1428	2770	1	20 A	2#12 & 1#12G, 3/4"C	Lighting - Level 9	4	
5	Lighting - Level 8	2#12 & 1#12G, 3/4"C	20 A	1			784	960	1	20 A	2#12 & 1#12G, 3/4"C	Lighting - Level 9	6
7	Other	2#12 & 1#12G, 3/4"C	20 A	1	1160	760		1	20 A	2#12 & 1#12G, 3/4"C	Other	8	
9	Lighting - Level 10	2#12 & 1#12G, 3/4"C	20 A	1		2049	34	1	20 A	2#12 & 1#12G, 3/4"C	Exit Signs - Level 8	10	
11	Lighting - Level 10	2#12 & 1#12G, 3/4"C	20 A	1			1968	34	1	20 A	2#12 & 1#12G, 3/4"C	Exit Signs - Level 9	12
13	SPARE	--	20 A	1	0	53		1	20 A	2#12 & 1#12G, 3/4"C	Exit Signs - Level 10	14	
15	SPARE	--	20 A	1		0	0	1	20 A	--	SPARE	16	
17	SPARE	--	20 A	1			0	0	1	20 A	--	SPARE	18
19	SPARE	--	20 A	1	0	0		1	20 A	--	SPARE	20	
21	SPARE	--	20 A	1		0	0	1	20 A	--	SPARE	22	
23	SPARE	--	20 A	1			0	0	1	20 A	--	SPARE	24
25	SPARE	--	--	--	0	0		--	--	--	SPARE	26	
27	SPARE	--	--	--	0	0		--	--	--	SPARE	28	
29	SPARE	--	--	--			0	0	--	--	SPARE	30	
Total Load:					6476 VA	6281 VA	3746 VA						
Total Amps:					25 A	24 A	14 A						
Panel Totals													
Total Conn. Load: 16504 VA													
Total Est. Demand: 16504 VA													
Total Conn.: 20 A													
Total Est. Demand: 20 A													
Notes:													

Branch Panel: CRPT10													
Location: ELEC 10-010			Volts: 120/208 Wye			Main Type: MCB			K.A.I.C. Rating: 22				
Supply From:			Phases: 3			Bus Amps: 400 A			Wires: 4				
Mounting: SURFACE			Wires: 4			Bus Amps: 400 A			MCB Rating: 400 A				
Enclosure: TYPE 1													
CKT	Description	Wiring Info	Trip	Poles	A	B	C	Poles	Trip	Wiring Info	Description	CKT	
1	WORKSTATION - IT REPAIR/ITG	2#12 & 1#12G, 3/4"C	20 A	1	360	8920		3	225 A	SEE SINGLE LINE	CRPT9	2	
3	CRPT8	SEE SINGLE LINE	100 A	3		12470	10260	11500	13860	1	20 A	2#12 & 1#12G, 3/4"C	4
5	MONITOR - GREEN RM	2#12 & 1#12G, 3/4"C	20 A	1	9900	300		1	20 A	2#12 & 1#12G, 3/4"C	MONITOR - GREEN RM	6	
7	MONITOR - MULTIMEDIA RM	2#12 & 1#12G, 3/4"C	20 A	1	480	900		1	20 A	2#12 & 1#12G, 3/4"C	MONITOR - MULTIMEDIA RM	8	
9	MONITOR - MULTIMEDIA RM	2#12 & 1#12G, 3/4"C	20 A	1	360	1666		3	20 A	2#12 & 1#12G, 3/4"C	MONITOR - MULTIMEDIA RM	10	
11	SPARE	--	20 A	1		1666	1666	1666	1666	3	20 A	DISPLAY MONITOR RACK RECEIPT	12
13	MONITOR - MULTIMEDIA RM	2#12 & 1#12G, 3/4"C	20 A	1	1666	0		1	20 A	2#12 & 1#12G, 3/4"C	SPARE	14	
15	DISPLAY MONITOR RACK RECEIPT	2#12 & 1#12G, 3/4"C	20 A	3			1666	1666			SPARE	16	
17	SPARE	--	20 A	1		0	0						



**ABBREVIATIONS:**

(E)	EXISTING WORK/EQUIPMENT TO REMAIN
(ER)	EXISTING WORK/EQUIPMENT TO BE RELOCATED
(N)	NEW WORK/EQUIPMENT TO BE PROVIDED UNDER THIS CONTRACT
(R)	EXISTING WORK/EQUIPMENT TO BE REMOVED UNDER THIS CONTRACT
(RE)	RELOCATED EXISTING WORK/EQUIPMENT
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALU	ALUMINUM
AV	AUDIBLE/VISUAL ALARM
AWG	AMERICAN WIRE GAUGE
BMS	BALANCED MAGNETIC SWITCH
BO	BOTTOM OF
BOM	BILL OF MATERIALS
BW	BLACK AND WHITE
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING, EQUIPMENT MOUNTED EITHER ON OR IN CEILING AREA
CLR	CLEAR
CM	CONSTRUCTION MANAGER
COL	COLUMN
CONC	CONCRETE
CR	CARD READER
CU	COPPER
DC	DIRECT CURRENT
DEG	DEGREE
DIM	DIMENSION
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE
EPT	ELECTRIC POWER TRANSFER HINGE
ES	ELECTRIC STRIKE
EXIST	EXISTING
FMC	FLEXIBLE METAL CONDUIT
FO	FIBER OPTIC
FOPP	FIBER OPTIC PATCH PANEL
FS	SINGLE MODE FIBER
G	GROUND
G.C.	GENERAL CONTRACTOR
GRND	GROUND
GRS	GALVANIZED RIGID STEEL
GWB	GYPSON WALL BOARD
HORIZ	HORIZONTAL(LY)
ID	IDENTIFICATION
IDC	INSULATION DISPLACEMENT CONNECTION
IDF	INTERMEDIATE DISTRIBUTION FRAME
IT	INFORMATION TECHNOLOGY
JB	JUNCTION BOX
KP	KEY PAD
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MIN	MINIMUM
ML	ELECTROMAGNETIC LOCK
NEC	NATIONAL ELECTRIC CODE
N.I.C	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
OPNG	OPENING
PIR	PASSIVE INFRARED DEVICE
RDR	READER
REX	REQUEST TO EXIT
RX	RECEIVER
SCS	STRUCTURED CABLING SYSTEM
SH	SHIELDS
SM	SINGLE MODE FIBER
ST	STRAND
SUSP	SUSPENDED
TBD	TO BE DETERMINED
TCOM	TELECOMMUNICATIONS
TDR	TIME DELAY RELEASE
TELECOM	TELECOMMUNICATIONS ROOM
TELEC	TELECOMMUNICATIONS
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TO	TOP OF
TSP	TWISTED SHIELDED PAIR
TV	TELEVISION
TX	TRANSMITTER
TYP	TYPICAL
UTP	UNSHIELDED TWISTED PAIR
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VAC	VOLTS VOLTS ALTERNATION CURRENT
VERT	VERTICAL(LY)
VIF	VERIFY IN FIELD
W	WITH
W/O	WITHOUT
WAP	WIRELESS ACCESS POINT
WCR	WITHSTAND CURRENT RATING
WP	WEATHERPROOF

**VOICE AND DATA SYMBOLS:**

- # DATA OUTLET, CAT 6 UTP CABLE TYPE, MOUNTED 18" AFF UNLESS NOTED OTHERWISE. "# INDICATES NUMBER OF CABLES.
- A AUDIO FLOOR BOX. CABLES, TERMINATIONS, AND A/V EQUIPMENT TO BE PROVIDED BY A/V VENDOR. COORDINATE FINAL LOCATIONS WITH A/V VENDOR.
- AV A/V DUAL GANG JUNCTION BOX. CABLES, TERMINATIONS, AND A/V EQUIPMENT TO BE PROVIDED BY A/V VENDOR. COORDINATE FINAL LOCATIONS WITH A/V VENDOR.
- IM INTERCOMM MASTER STATION OUTLET, (1) CAT 6 UTP CABLE TYPE, MOUNTED AT DESK HEIGHT
- IC INTERCOMM MASTER STATION OUTLET, (1) CAT 6 UTP CABLE TYPE, MOUNTED AT 48" AFF
- # VOICE/DATA OUTLET, CAT 6 UTP CABLE TYPE, MOUNTED 18" AFF UON. "# INDICATES NUMBER OF CABLES.
- # FLOOR BOX DATA OUTLET, CAT 6 UTP CABLE TYPE, "# INDICATES NUMBER OF CABLES. COORDINATE FINAL LOCATION WITH FURNITURE.
- # FLOOR BOX VOICE/DATA OUTLET, CAT 6 UTP CABLE TYPE, "# INDICATES NUMBER OF CABLES. COORDINATE FINAL LOCATION WITH FURNITURE.
- # POKE THRU DATA OUTLET, CAT 6 UTP CABLE TYPE, "# INDICATES NUMBER OF CABLES.
- # POKE THRU VOICE/DATA OUTLET, CAT 6 UTP CABLE TYPE, "# INDICATES NUMBER OF CABLES.
- W CEILING MOUNTED WIRELESS ACCESS POINT. PROVIDE TWO (2) CAT 6A CABLES TERMINATED AS MENTIONED IN SPECS AND DETAILS. WIRELESS ACCESS POINT TO BE FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.
- C COMMUNICATIONS PULLBOX, SIZE AND TYPE AS INDICATED
- SECURITY SURVEILLANCE CAMERA, PROVIDE (2) CAT 6 UTP CABLES 180 INDICATES 180 DEG PANORAMIC

**SECURITY ANNOTATION LEGEND:**

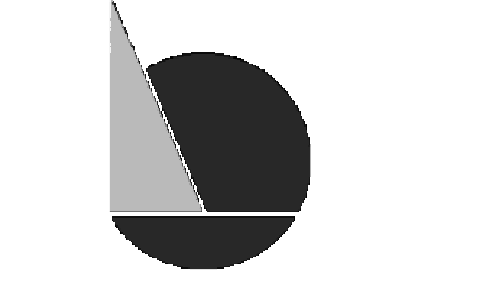
	NEW CCTV SURVEILLANCE CAMERA: X - DETAIL NUMBER Y - SHEET NUMBER Z - CAMERA NUMBER
	NEW ACCESS CONTROLLED DOOR: X - DETAIL NUMBER Y - SHEET NUMBER Z - DOOR NUMBER



**IEI GROUP, LTD.**  
**IEI ARCHITECTS, INC.**  
428 North 2nd Street  
Philadelphia, PA 19123  
Telephone: 215 413 3700



Arora Engineers, Inc.  
61 Wilmington-West Chester Pike  
Chadds Ford, PA 19317  
P (610) 459-7900  
F (610) 459-7950  
aroraengineers.com



**O'Donnell & Naccarato**  
701 Market Street, Suite 6000  
Philadelphia, PA 19106  
PH: 215.925.3788  
www.o-n.com

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PROJECT TITLE:  
**THE CITY OF PHILADELPHIA  
OFFICE OF EMERGENCY MANAGEMENT  
PHILADELPHIA PUBLIC SERVICES BUILDING  
400 NORTH BROAD STREET, PHILADELPHIA, PA 19130  
FLOORS 8, 9 AND 10**

- PROGRESS SET
- CLIENT REVIEW
- BID SET
- CODE REVIEW SET
- ISSUED FOR CONSTRUCTION

**ISSUED FOR BIDS**  
**9/18/20**  
(NOT FOR CONSTRUCTION)

- ISSUES/REVISIONS:
- 2020-09-18 ISSUED FOR BIDS
  - 2020-10-15 ADDENDUM NO. 1
  - 2020-11-02 ADDENDUM NO. 3

PROJECT NUMBER: 304103-120 OC  
SCALE: NOT TO SCALE  
DATE: 07/07/2020  
DRAWN BY: SM  
CHECKED BY: JS

DRAWING TITLE:  
**SPECIAL SYSTEMS  
ABBREVIATIONS  
AND SYMBOLS**

SHEET NO:  
**SS-001**



**GENERAL NOTES**

1. THESE DRAWINGS DESCRIBE THE GENERAL REQUIREMENTS FOR THE INSTALLATION OF STRUCTURED CABLING SYSTEM FOR SPECIAL SYSTEMS ELECTRONICS FOR OFFICE OF EMERGENCY MANAGEMENT WITHIN THE PHILADELPHIA PUBLIC SERVICE BUILDING. THE PROJECT INCLUDES FURNISHING, INSTALLATION AND TESTING OF THE COMPONENTS FOR THE SPECIAL SYSTEMS INSTALLATION AS DESCRIBED HEREIN AND IN THE SPECIFICATIONS.
2. PRIOR TO ACCEPTANCE OF THE INSTALLATION, ALL SYSTEMS SHALL BE TESTED, AND OPERATED TO DEMONSTRATE TO THE OWNER, OR THEIR DESIGNATED REPRESENTATIVE, THAT THE INSTALLATION AND PERFORMANCE OF THESE SYSTEMS AND/OR PARTS THEREOF CONFORM TO THE DESIGN INTENT.
3. CONTRACTOR DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE, DESIGN INTENT, AND GENERAL ARRANGEMENT ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES INCLUDING RESOLUTION OF FIELD CONFLICTS THAT MAY ARISE. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE TO DETERMINE ACTUAL PHYSICAL SIZE, CAPACITIES, AND LOCATIONS OF EXISTING EQUIPMENT TO BE REMOVED.
4. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE AND IDENTIFY ALL EXISTING UTILITIES AND EXISTING CONDITIONS IN THE CONSTRUCTION AREA, WHETHER INDICATED ON DRAWINGS OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO EXISTING UTILITIES, CABLES AND/OR FACILITIES DAMAGED DURING CONSTRUCTION. NO REIMBURSEMENT WILL BE ALLOWED FOR REPAIR AND/OR REPLACEMENT OF DAMAGED FACILITIES/UTILITIES.
5. IN CONSTRUCTION AREAS THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING CABLES DURING CONSTRUCTION. THE CONTRACTOR WILL PAY FOR ALL REASONABLE COSTS ASSOCIATED WITH THE REPAIR OF ANY DAMAGED CABLES.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF EXISTING CABLES WHICH PASS THROUGH THE CONSTRUCTION AREA BUT ARE NOT PART OF THE CONSTRUCTION SCOPE OF WORK. THE CONTRACTOR SHALL ENSURE THESE CABLES ARE PROTECTED AND THE SYSTEMS STAY FUNCTIONAL TO WHICH THEY ARE CONNECTED.
7. FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND LOCATIONS OF FINISHED CONSTRUCTION PRIOR TO FABRICATION AND INSTALLATION OF FIXTURES AND EQUIPMENT. NOTIFY THE ENGINEER AT ONCE IF THERE ARE ANY DISCREPANCIES.
8. THE ALTERATION OF THE EXISTING BUILDING IS WORK OF A COMPLEX NATURE WHICH WILL REQUIRE ACCURATE PLANNING, CAREFUL PREPARATION AND EXECUTION. ATTENTION TO DETAIL AND CLOSE SUPERVISION BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO DO THIS WORK IN FULL COOPERATION WITH ALL CONSTRUCTION TRADES AND SUBJECT TO SCHEDULING ARRANGED TO MINIMIZE DISRUPTION OF NORMAL ACTIVITIES OF THE BUILDING. PHASING OF ALL WORK SHALL BE DONE IN COORDINATION WITH THE CONSTRUCTION PHASING PLAN.
9. ALL DEVICES AND BOXES INSTALLED SHALL BE TAGGED AND/OR MARKED AS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
10. ALL PENETRATIONS, BOTH NEW AND EXISTING, THROUGH DESIGNATED FIRE RATED WALLS, CEILINGS AND FLOOR SLABS (WHICH ARE 2-HOUR RATED) SHALL BE PROPERLY SEALED WITH AN APPROVED RATED FIRE STOPPING MATERIAL. CONTRACTOR SHALL SUBMIT PDF COPIES OF MANUFACTURER'S CATALOG DATA AND INSTALLATION DETAILS FOR FIRE STOPPING TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. EACH TRADE CONTRACTOR SHALL PROVIDE AND INSTALL AN APPROVED FIRE STOP SEALANT, TOTALLY ENCLOSING ALL PENETRATIONS THROUGH RATED CEILINGS, WALLS, ROOFS AND FLOORS.
11. WHERE AN OUTLET BOX IS TO BE LOCATED IN A FIRE RATED PARTITION THE FOLLOWING SHALL BE MET:
  - A. THE OUTLET BOX SHALL BE METALLIC
  - B. THE OUTLET BOX SHALL NOT EXCEED 4"x4" OR 16 SQUARE INCHES
  - C. ALL SPACES BETWEEN THE OUTLET BOX AND THE RATED ASSEMBLY SHALL BE SEALED WITH APPROVED FIRESTOP MATERIALS
  - D. THE OUTLET BOX SHALL BE SEPARATED FROM OPENINGS ON THE OPPOSITE SIDE OF THE ASSEMBLY BY A MINIMUM OF 24" HORIZONTALLY.
12. WHERE UTILITIES, SYSTEMS, SWITCHES, PANELS, POWER SUPPLIES, ROUTERS AND/OR SERVICES REQUIRE SHUTDOWN FOR THE WORK TO BE PERFORMED, NOTIFY THE ENGINEER AND OWNER. REQUESTS FOR SYSTEMS SHUTDOWNS SHALL BE SUBMITTED TO THE OWNER, IN WRITING, A MIN. OF 1 WEEK PRIOR TO THE SCHEDULED SHUTDOWN. THE REQUEST MUST INCLUDE ALL SYSTEMS TO BE AFFECTED AND THE EXPECTED DISRUPTION DURATIONS.
13. ALL MATERIALS SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS.
14. ALL CEILING MOUNTED EQUIPMENT SHALL BE COORDINATED WITH THE REFLECTED CEILING PLANS. EQUIPMENT NOT SHOWN ON THE REFLECTED CEILING PLANS SHALL BE COORDINATED WITH OTHER TRADE CONTRACTORS. CEILING COORDINATION SHOULD BE COMPLETE BEFORE ANY ROUGH IN TAKES PLACE.
15. PATCH, REPAIR OR REPLACE EXISTING WORK/CABLES/EQUIPMENT DISTURBED BY THIS CONTRACT WITH MATERIAL AND WORKMANSHIP MATCHING OR EQUAL TO THE CONDITION PRIOR TO THE NEW WORK, UNLESS OTHERWISE NOTED. ANY PATCHING/REPAIRING SHALL BE PERFORMED BY THE CONTRACTOR AT NO COST TO THE PROJECT.
16. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, INCIDENTALS, METHODS AND SERVICES REQUIRED TO INSTALL ALL WORK INDICATED COMPLETELY AND IN FULL OPERATION.
17. ALL WORK SHALL BE IN CONFORMANCE WITH THE LATEST AND ALL APPLICABLE LAWS, CODES, AND REGULATIONS ADOPTED BY MUNICIPAL, COUNTY, STATE, FEDERAL, AUTHORITIES, UTILITY COMPANIES, INSURANCE AGENCIES AND OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK, INCLUDING CURRENT ENVIRONMENTAL REGULATIONS, AND SHALL COMPLY WITH THE APPLICABLE LOCAL ELECTRICAL CODES, NEC 2014 OR LATEST ADOPTED EDITION AND ANY APPLICABLE INDUSTRIAL CODES: NECA, NEC, NESC, NFPA, IEEE, ANS/ITIA/EIA.
18. THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION FOR A PERIOD OF ONE YEAR (EXCEPT WHERE EXTENSIONS OF THIS ONE YEAR PERIOD ARE NOTED) FROM THE DATE OF ACCEPTANCE OF THE SYSTEM(S) AS A WHOLE. ANY DEFECTS IN WORKMANSHIP, MATERIALS, MALFUNCTION OF EQUIPMENT OR UNSATISFACTORY PERFORMANCE, AND ALL OTHER WORK OR PARTS OF THE BUILDING DAMAGED THEREBY AS A RESULT OF WORK OF THE PROJECT BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PAY ALL REPAIR COSTS ACCORDINGLY WITHOUT ADDITIONAL COSTS TO THE OWNER.
19. IN ADDITION TO SPECIFICS, AS MAY BE DEFINED HEREAFTER, THE CONTRACTOR SHALL PROTECT THE WORK SITE AND ALL HIS OR HER WORK AGAINST DAMAGE FROM ANY SURFACE (INCLUDING BUT NOT LIMITED TO WATER, DUST, HEAT, FREEZING ETC.) UNTIL FINAL COMPLETION AND ACCEPTANCE BY THE OWNER.
20. UNLESS OTHERWISE NOTED, ALL PARTS, EQUIPMENT, AND MATERIALS SHALL BE NEW AND SHALL BE SAME AND/OR UL APPROVED.
21. COMPLETE ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THE WORK. CUTTING AND PATCHING SHALL BE COMPLETED IN A NEAT AND WORKMANLIKE MANNER. PATCHING MATERIALS SHALL MATCH EXISTING MATERIALS TO THE GREATEST EXTENT POSSIBLE. PROVIDE TOUCH UP PAINT AS REQUIRED MATCHING PAINT FINISH & COLOR OF EXISTING ADJACENT AREAS.

22. CORE DRILL OPENINGS THROUGH FLOORS FOR NEW CONDUIT PENETRATIONS AS REQUIRED. CORE DRILL OPENINGS SHALL BE SLEEVED AND SEALED WITH FIREPROOF FIRE RATED MATERIAL. CORE DRILL 1/4" DIAMETER PLOT HOLE PRIOR TO CORE DRILLING IN ORDER TO LOCATE WHERE HOLE WILL FALL. CONTRACTOR SHALL NOT CORE DRILL THROUGH ANY STRUCTURAL BUILDING ELEMENTS SUCH AS COLUMNS OR BEAMS. TAKE PRECAUTIONS AS TO PROTECT AREAS BENEATH CORE DRILL AREA AND HAVE PERSONNEL AT THIS AREA IN ORDER TO CATCH CORE AND WATER THAT MAY ENTER AREAS BELOW. REPLACE ANY/ALL CEILING TILES THAT ARE DAMAGED DUE TO THIS WORK. THOROUGHLY CLEAN AREAS AFTER CORE DRILL WORK HAS BEEN COMPLETED.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING CABLING. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR FURNISHING AND INSTALLING CONDUIT FROM ALL EQUIPMENT DEVICE LOCATIONS TO DESIGNATED TERMINATION ROOMS. ALL NEW CABLING SHALL BE INSTALLED IN CONDUIT UNLESS OTHERWISE NOTED.
24. ALL NEW CONDUIT ROUTES SHALL BE A MINIMUM OF 3/4" EMT CONDUIT AND NO MORE THAN 40% FILLED.
25. CONDUIT ROUTES, IF SHOWN, ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL SELECT ACTUAL ROUTES FOR APPROVAL BY ENGINEER ON SHOP DRAWINGS, PRIOR TO INSTALLATION.
26. THESE DRAWINGS MAY NOT SHOW ALL REQUIRED CONNECTIONS, PATCH CORDS, INTERCONNECTING CABLES, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE IN HIS BID PRICE ALL APPURTENANCES FOR A COMPLETE AND OPERATIONAL SYSTEM THAT MEETS THE SYSTEM DESIGN REQUIREMENTS, WHETHER OR NOT SHOWN ON THE DRAWINGS OR CALLED OUT IN THE SPECIFICATIONS.
27. DIMENSIONS TAKE PRECEDENCE OVER SCALE.
28. ALL NEW SPEAKERS SHALL BE CENTERED IN CEILING TILES AND CENTERED BETWEEN OTHER TRADES EQUIPMENT, I.E., CENTERED BETWEEN LIGHT FIXTURES AND OR SPRINKLER HEADS.
29. CONTRACTOR SHALL SUBMIT AS PART OF SUBMITTAL PACKAGE, ALL SPEAKER SUPPORT DETAILS AS PART OF SHOP DRAWINGS FOR ALL SPEAKER TYPES.
30. PRIOR TO CORE DRILLING CONTRACTOR SHALL OBTAIN THE SERVICES OF A UTILITY LOCATOR FIRM WITH ABILITY TO LOCATE CONDUIT IN CONCRETE SLABS. CONTRACTOR SHALL IDENTIFY THE LOCATION OF CONDUITS IN SLAB, THEN PRESENT THE FINDINGS TO THE ENGINEER FOR REVIEW PRIOR TO CORE DRILLING. ALL PENETRATIONS, BOTH NEW AND EXISTING, THROUGH DESIGNATED FIRE RATED WALLS, CEILINGS AND FLOOR SLABS (WHICH ARE 2-HOUR RATED) SHALL BE PROPERLY SEALED WITH AN APPROVED RATED FIRE STOPPING MATERIAL. ALL FIRE STOPPING MATERIAL SHALL BE SUPPLIED AND WORK PERFORMED AS PER PROJECT SPECIFICATIONS. CONTRACTOR SHALL SUBMIT PDF COPIES OF MANUFACTURER'S CATALOG DATA AND INSTALLATION DETAILS FOR FIRESTOPPING TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
31. CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT AS INDICATED ON THE PLANS.
32. INSTALLATION OF CATEGORY 6 UTP CABLE SHALL BE IN ACCORDANCE WITH EIA/ITIA GUIDELINES. CABLE INSTALLATION AND TERMINATIONS THAT DO NOT COMPLY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
  - A. THE MAXIMUM PULLING TENSION FOR A SINGLE CABLE SHALL NOT EXCEED 25 POUNDS.
  - B. THE MINIMUM BENDING RADIUS OF THE CABLE SHALL NOT BE LESS THAN 4X THE OUTSIDE DIAMETER OF THE CABLE.
  - C. THE CABLE SHALL BE INSTALLED WITHOUT KINKS OR TWISTS AND THE APPLICATION OF CABLE TIES SHALL NOT DEFORM THE CABLE BUNDLE. CONDUITS SHALL TRANSITION INTO CABLE TRAYS USING CONDUIT END BELLS, NO CABLE SHALL BE INSTALLED OVER ROUGH CONDUIT EDGES IN ANY TRANSITION. STRIP BACK ONLY AS MUCH CABLE JACKET AS IS REQUIRED TO TERMINATE THE CABLE. CABLE PAIRS SHALL NOT BE UNTWISTED MORE THAN 1/2 INCH.
  - D. CABLES SHALL BE TESTED PER THE SPECIFICATIONS, CABLES WHICH DO NOT PASS TESTS SHALL BE REPLACED, OR RECTIFIED BY THE CONTRACTOR AT NO ADDITIONAL COST.
  - F. THE CONTRACTOR SHALL NOT INSTALL ANY NEW CATEGORY 6 CABLE AT LENGTHS GREATER THAN 90 METERS FROM PATCH PANEL TO OUTLET BOX. THE CONTRACTOR SHALL BEING ANY CONDITIONS EXCEEDING THE CABLE LIMIT DISTANCE TO THE ENGINEER.
33. INSTALLATION OF FIBER OPTIC CABLES SHALL BE IN ACCORDANCE WITH EIA/ITIA GUIDELINES. CABLE INSTALLATION AND TERMINATIONS THAT DO NOT COMPLY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
  - A. THE BEND RADIUS FOR HORIZONTAL OPTICAL FIBER CABLE SHALL NOT BE LESS THAN 1 INCH UNDER NO-LOAD CONDITIONS, WHEN UNDER A MAXIMUM TENSILE LOAD OF 50 LBF, THE BEND RADIUS SHALL NOT BE LESS THAN 2 INCHES.
  - B. THE BEND RADIUS FOR FIBER BACKBONE SHALL NOT BE LESS THAN THAT RECOMMENDED BY THE MANUFACTURER IF NO RECOMMENDATION IS KNOWN, THEN THE APPLIED BEND RADIUS SHALL NOT BE LESS THAN 12 TIMES THE CABLE OUTSIDE DIAMETER WHEN THE CABLE IS UNDER TENSILE LOAD.
  - C. THE BEND RADIUS FOR OUTSIDE PLANT OPTICAL FIBER BACKBONE CABLE SHALL NOT BE LESS THAN THAT RECOMMENDED BY THE MANUFACTURER IF NO RECOMMENDATION IS KNOWN, THEN THE APPLIED BEND RADIUS SHALL NOT BE LESS THAN 10 TIMES THE CABLE OUTSIDE DIAMETER NO-LOAD CONDITIONS AND NOT LESS THAN 20 TIMES THE CABLE OUTSIDE DIAMETER WHEN THE CABLE IS UNDER A TENSILE LOAD.
34. ALL HORIZONTAL CABLES SHALL BE INSTALLED WITH A 9' SERVICE LOOP IN THE TELECOMMUNICATIONS ROOM.
35. ALL FIBER OPTIC CABLE SHALL BE INSTALLED WITHIN INNERDUCT WHEN INSTALLED IN CABLE TRAY OR CONDUITS LARGER THEN 2" UNLESS OTHERWISE NOTED.
36. ALL FIBER OPTIC CABLES SHALL BE INSTALLED WITH A 10' SERVICE LOOP IN THE TELECOMMUNICATIONS ROOM.
37. SPECIFY TESTING REQUIREMENTS FOR BOTH COPPER AND FIBER OPTIC SYSTEMS, AND PROVIDE HARD AND ELECTRONIC COPIES TO THE OWNER. NO "PASS" TEST RESULT ACCEPTABLE. LIMIT CAT 6 UTP CABLE BUNDLE SIZE TO 24 CABLES TO MINIMIZE HEAT BUILDUP ON POE CHANNELS.
38. ALL CABLING TO BE IN EMT CONDUIT WHERE CEILING SPACES ARE OPEN TO EXPOSED CONCRETE DECK ABOVE. PAINT CONDUIT TO MATCH THE EXPOSED CONCRETE CEILING DECK.
39. WHERE ACCESSIBLE CEILING IS INSTALLED, RUN CONDUIT STUB-UP W/ BUSHINGS TO THE CEILING. ALL CABLING TO BE INSTALLED USING J-HOOKS ABOVE THE CEILING. PROVIDE DIFFERENT COLOR J-HOOKS FOR EACH TYPE OF CABLING SYSTEM AS INDICATED BELOW.
  - A. TELECOMMUNICATIONS CABLING: BLUE J-HOOKS
  - B. CCTV SYSTEM CABLING: GREEN J-HOOKS
  - C. ACCESS CONTROL SYSTEM CABLING: ORANGE J-HOOKS
  - D. BACKBONE COPPER AND FIBER OPTIC CABLING: YELLOW J-HOOKS

**GENERAL DEMOLITION NOTES**

1. NOTES AND GRAPHIC REPRESENTATIONS SHALL NOT LIMIT THE EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT THE SITE, CAREFULLY EXAMINE EXISTING CONDITIONS AND SHALL PERFORM ALL DEMOLITION REQUIRED TO ACHIEVE THE FINAL DESIGN INTENT AS REQUIRED BY THE CONTRACT DOCUMENTS. EXTENT OF ALL DEMOLITION WORK SHALL BE COORDINATED WITH THE ENGINEER.
2. ALL WORK REQUIRED REMAINING IN SERVICE BUT INTERFERING WITH THE ALTERATIONS SHALL BE RELOCATED AND RECONNECTED USING MATERIALS AND STANDARDS OF THIS CONTRACT.
3. EQUIPMENT AND WIRING TO BE REMOVED SHALL BE DE-ENERGIZED PRIOR TO ANY DEMOLITION WORK.
4. THE OWNER RESERVES THE RIGHT TO CLAIM ALL OF THE MATERIALS REMOVED AS PART OF DEMOLITION AFTER RECEIPT OF NOTIFICATION FROM CONTRACTOR THAT REMOVED MATERIALS ARE READY FOR INSPECTION.
5. DELIVER ANY/ALL OWNER SALVAGED EQUIPMENT TO A LOCATION DETERMINED BY THE OWNER. REMOVED/DEMOLISHED EQUIPMENT NOT REQUIRED BY THE OWNER SHALL BE PROPERLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
6. EQUIPMENT INDICATED TO BE REMOVED SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS. EQUIPMENT REQUIRED TO BE TURNED OVER TO THE OWNER SHALL BE DELIVERED TO A LOCATION AS DIRECTED BY THE AIRPORT AUTHORITY ON AIRPORT PROPERTY.
7. THE CONTRACTOR SHALL PROVIDE CAPS, COVERS, AND PLUGS FOR ALL EXISTING PULL BOXES, JUNCTION BOXES, AND PANELS WITHIN THE PROJECT BOUNDARIES.
8. ALL CABLE MADE ABANDONED BY THIS PROJECT SHALL BE REMOVED BACK TO ITS SOURCE. ANY PATCH PANEL LABELING OR EQUIPMENT LABELING SHALL BE UPDATED PER THE CONTRACTOR'S CABLE REMOVAL.
9. ALL CONDUIT MADE ABANDONED BY THIS WORK SHALL BE REMOVED BACK TO ITS SOURCE, OR OCCUPIED JUNCTION BOX UNLESS OTHERWISE NOTED. ALL CONDUIT LEFT IN PLACE WHICH IS MADE ABANDONED BY THIS WORK SHALL BE LABELED AS SPARE AT A MINIMUM OF EVERY 25' IN EXPOSED LOCATIONS AND EVERY 15' IN CONCEALED LOCATIONS.



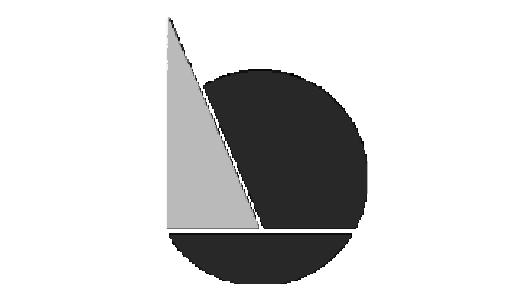
**IEI GROUP, LTD.**  
**IEI ARCHITECTS, INC.**

428 North 2nd Street  
 Philadelphia, PA 19123  
 Telephone: 215 413 3700

CONSULTANTS:



Arora Engineers, Inc.  
 61 Wilmington-West Chester Pike  
 Chadwick, PA 19317  
 P (610) 459-7900  
 F (610) 459-7950  
 aroraengineers.com



O'Donnell & Naccarato  
 701 Market Street, Suite 5000  
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**THE CITY OF PHILADELPHIA  
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 PHILADELPHIA PUBLIC SERVICES BUILDING  
 400 NORTH BROAD STREET, PHILADELPHIA, PA 19130  
 FLOORS 8, 9 AND 10**

- PROGRESS SET
- CLIENT REVIEW
- BID SET
- CODE REVIEW SET
- ISSUED FOR CONSTRUCTION

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**9/18/20**  
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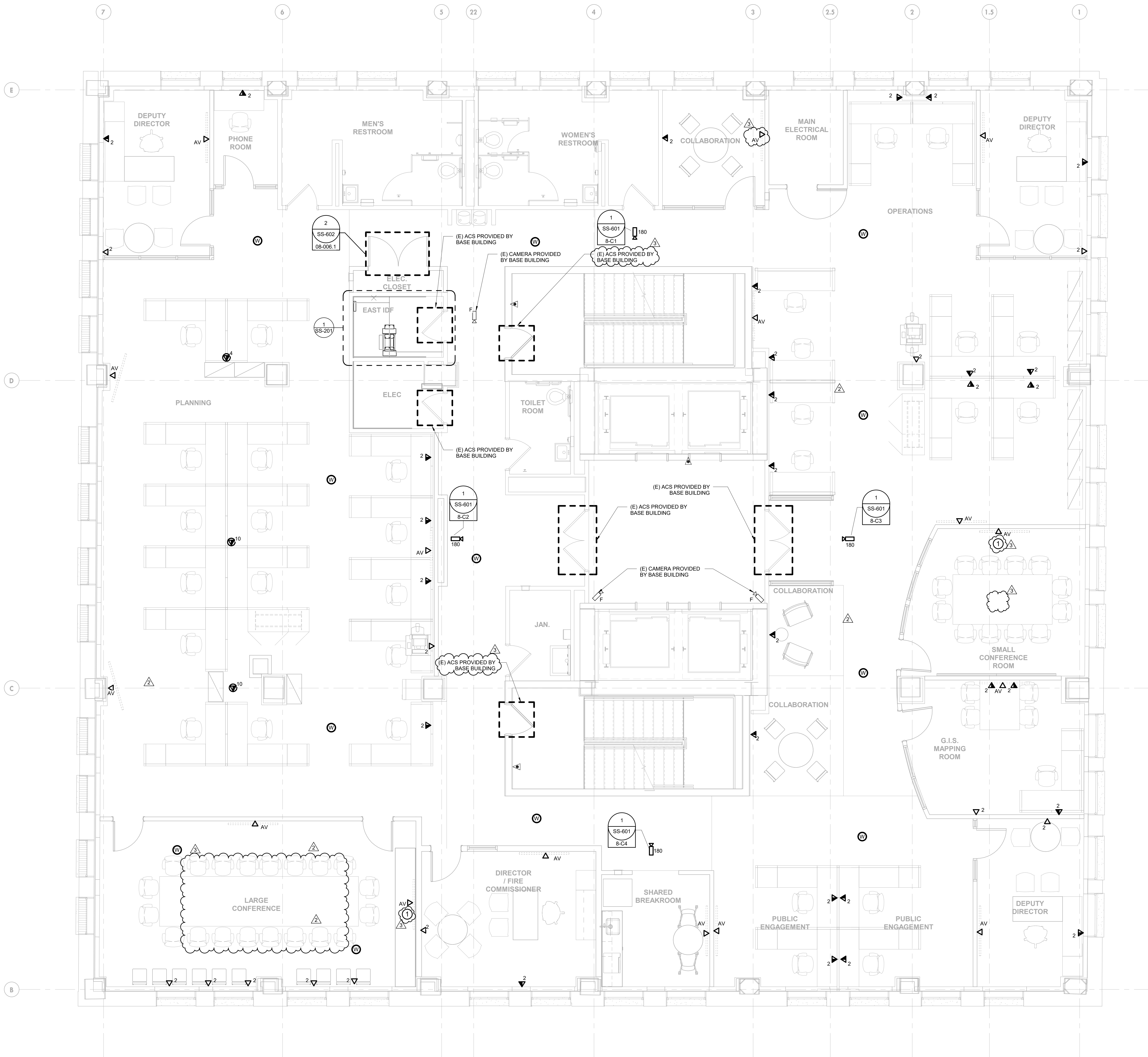
ISSUES/REVISIONS:  
 1 2020-09-18 ISSUED FOR BIDS  
 2 2020-10-15 ADDENDUM NO. 1  
 3 2020-11-02 ADDENDUM NO. 3

PROJECT NUMBER: 304103-120 OC  
 SCALE: NOT TO SCALE  
 DATE: 07/07/2020  
 DRAWN BY: SM  
 CHECKED BY: JS

DRAWING TITLE:  
**SPECIAL SYSTEMS  
 GENERAL NOTES**

SHEET NO:  
**SS-002**





**GENERAL NOTES:**

1. REFER TO SHEET SS-002 FOR GENERAL NOTES AND SHEET SS-001 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO SHEET SS-501 FOR SINGLE LINE DIAGRAM.
3. REFER TO SHEET SS-601 AND SS-602 DETAILS.
4. REFER TO SHEET SS-701 FOR SCHEDULES.
5. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

**KEYED NOTES: (#)**

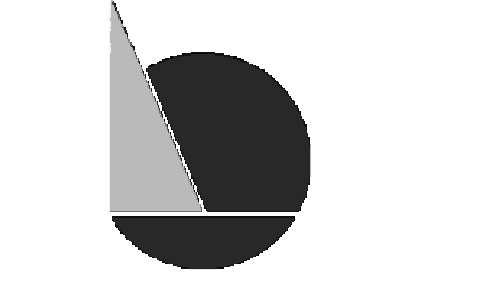
1. REFER TO DETAIL 8/SS-001 FOR AV PATHWAY DETAIL.



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 428 North 2nd Street  
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**PROJECT NUMBER:** 304103-120 OCC  
**SCALE:** 1/4" = 1'-0"  
**DATE:** 07/07/2020  
**DRAWN BY:** SM  
**CHECKED BY:** JS

**DRAWING TITLE:**  
**SPECIAL SYSTEMS**  
**8TH FLOOR NEW**  
**WORK PLAN**

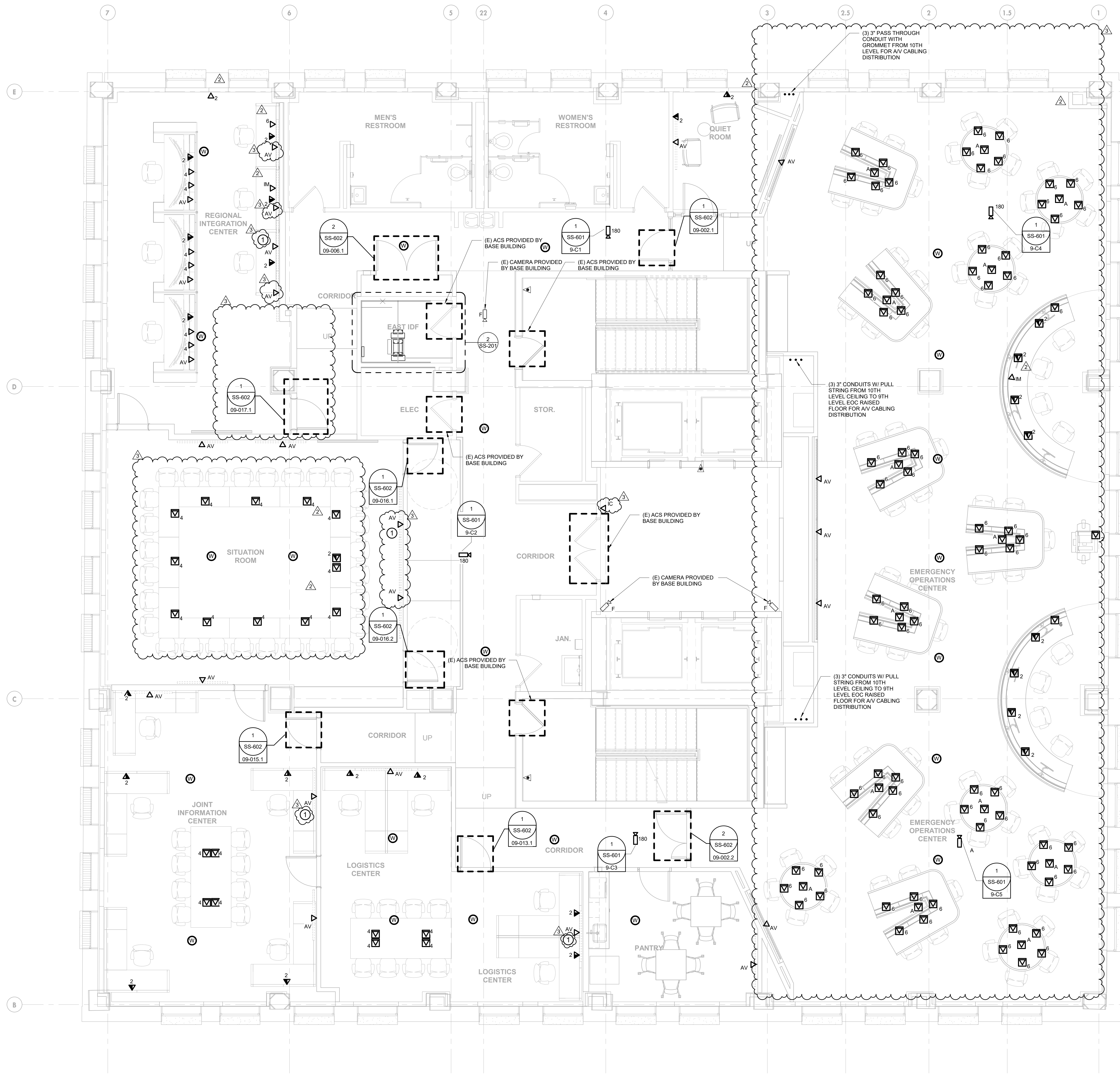
**SHEET NO.:**  
**SS-108**

PRINTED ON: 11/2/2020 3:48:49 PM

1 SPECIAL SYSTEMS NEW WORK PLAN - EIGHTH FLOOR  
 1/4" = 1'-0"

BIM 360://PPSB - Office of Emergency Management/122320\_001\_PPSB-DEM\_SS.rvt





**GENERAL NOTES:**

1. REFER TO SHEET SS-002 FOR GENERAL NOTES AND SHEET SS-001 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO SHEET SS-001 FOR SINGLE LINE DIAGRAM.
3. REFER TO SHEET SS-601 AND SS-602 DETAILS.
4. REFER TO SHEET SS-701 FOR SCHEDULES.
5. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.
6. ALL DATA OUTLETS, J-BOX, AND WIRING TO THE NEAREST IDF TO BE PROVIDED BY CONTRACTOR.

**KEYED NOTES: (#)**

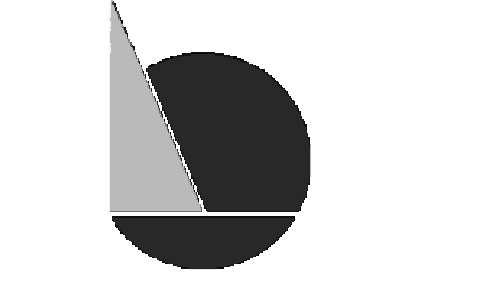
1. REFER TO DETAIL 8/SS-801 FOR AV PATHWAY DETAIL.



**IEI GROUP, LTD.**  
**IEI ARCHITECTS, INC.**  
 428 North 2nd Street  
 Philadelphia, PA 19123  
 Telephone: 215.413.3700



**ARORA**  
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 61 Wilmington-West Chester Pike  
 Chadds Ford, PA 19317  
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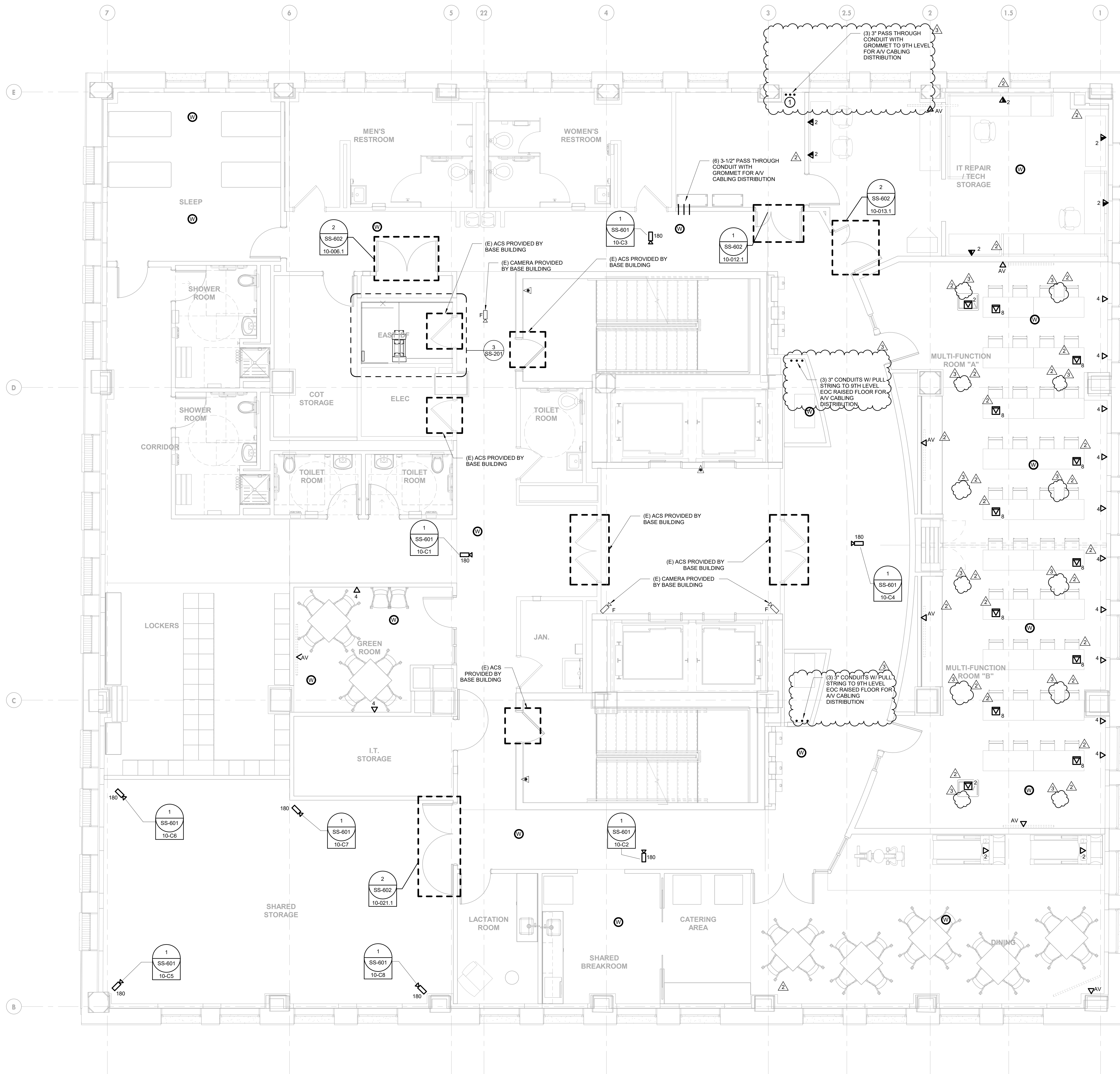
**PROJECT NUMBER:** 304103-120 OC  
**SCALE:** 1/4" = 1'-0"  
**DATE:** 07/07/2020  
**DRAWN BY:** SM  
**CHECKED BY:** JS

**DRAWING TITLE:**  
**SPECIAL SYSTEMS**  
**9TH FLOOR NEW**  
**WORK PLAN**

**SHEET NO.:**  
**SS-109**

**1** SPECIAL SYSTEMS NEW WORK PLAN - NINTH FLOOR  
 1/4" = 1'-0"





**GENERAL NOTES:**

1. REFER TO SHEET SS-002 FOR GENERAL NOTES AND SHEET SS-001 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO SHEET SS-501 FOR SINGLE LINE DIAGRAM.
3. REFER TO SHEET SS-601 AND SS-602 DETAILS.
4. REFER TO SHEET SS-701 FOR SCHEDULES.
5. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.
6. ALL DATA OUTLETS, J-BOX, AND WIRING TO THE NEAREST IDF TO BE PROVIDED BY CONTRACTOR.

**KEYED NOTES: (#)**

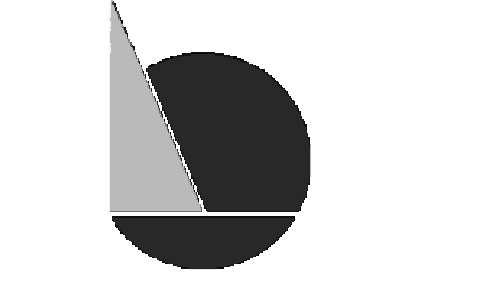
1. PROVIDE A SINGLE GROUPED OPENING FOR THE (3) PASS THROUGH CONDUITS. THE LONGER SIDE OF THE GROUPED OPENING MUST BE ORIENTED PARALLEL TO THE SPAN OF THE CONCRETE SLAB (PERPENDICULAR TO THE INFLR BEAMS BELOW). DO NOT OVERCUT THE OPENING. DO NOT CUT ANY PRIMARY STEEL FRAMING MEMBERS. COORDINATE WITH STRUCTURAL DRAWINGS.



**IEI GROUP, LTD.**  
**IEI ARCHITECTS, INC.**  
 428 North 2nd Street  
 Philadelphia, PA 19123  
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**ARORA**  
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 61 Wilmington-West Chester Pike  
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 FLOORS 8, 9 AND 10

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**9/18/20**  
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**ISSUES/REVISIONS:**  
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 2 2020-10-15 ADDENDUM NO. 1  
 3 2020-11-02 ADDENDUM NO. 3

**PROJECT NUMBER:** 304103-120 OC  
**SCALE:** 1/4" = 1'-0"  
**DATE:** 07/07/2020  
**DRAWN BY:** SM  
**CHECKED BY:** JS

**DRAWING TITLE:**  
**SPECIAL SYSTEMS**  
**10TH FLOOR NEW**  
**WORK PLAN**

**SHEET NO.:**  
**SS-110**

PRINTED ON: 11/2/2020 3:48:54 PM

1 SPECIAL SYSTEMS NEW WORK PLAN - TENTH FLOOR  
 1/4" = 1'-0"

BIM 360/PPSB - Office of Emergency Management/122320\_001\_PPSB-OEM\_SS.rvt



**GENERAL NOTES:**

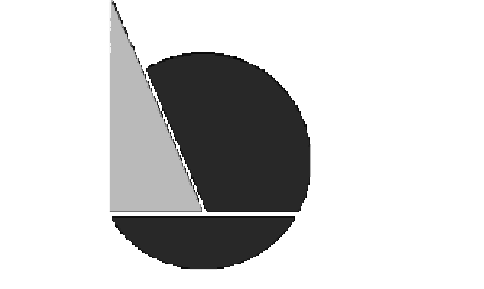
1. CONTRACTOR TO COORDINATE THEIR WORK AND DATA REQUIREMENTS WITH ALL OWNER FURNISHED EQUIPMENT AND MATERIAL FOR A COMPLETE AND OPERABLE SYSTEM. VERIFY EXACT LOCATIONS, ALL DIMENSIONS AND FIELD CONDITIONS. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WITH WORK.



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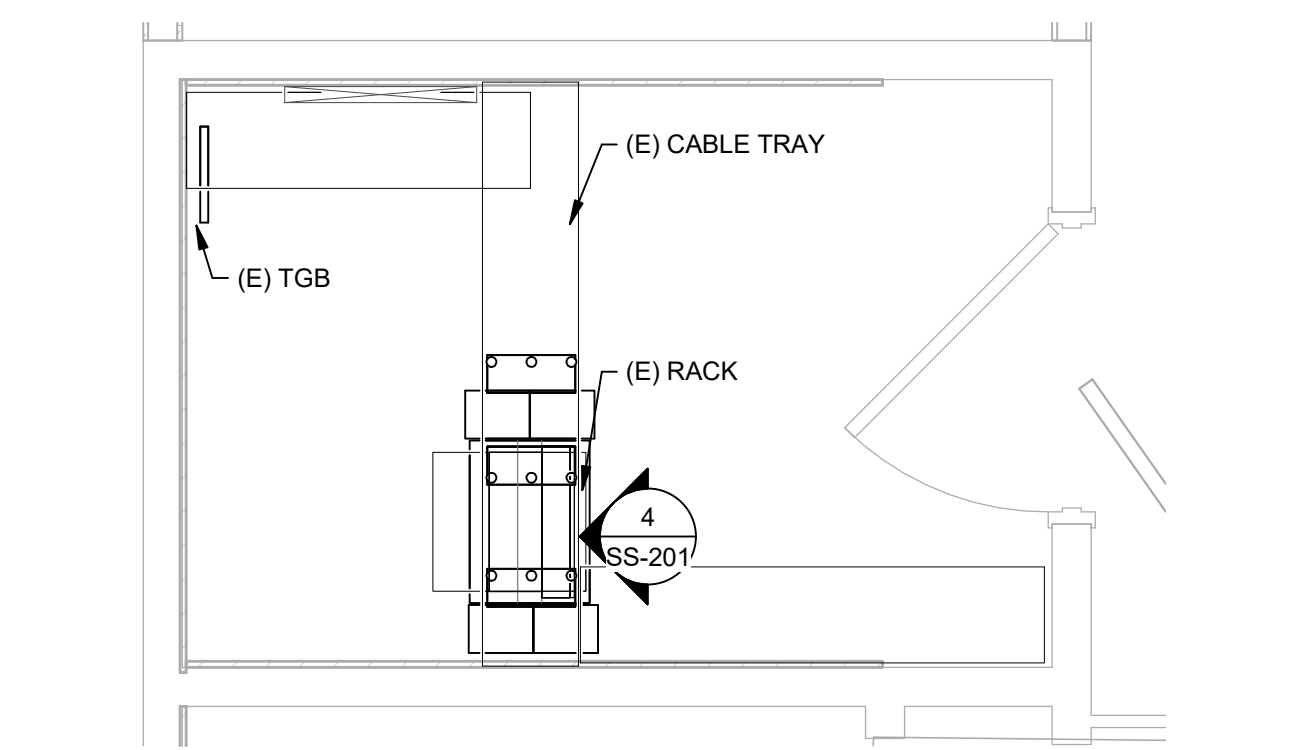
ISSUES/REVISIONS:  
 1 2020-09-18 ISSUED FOR BIDS  
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 3 2020-11-02 ADDENDUM NO. 3

PROJECT NUMBER: 304103-120 OCC  
 SCALE: NTS  
 DATE: 07/07/2020  
 DRAWN BY: Author  
 CHECKED BY: Checker

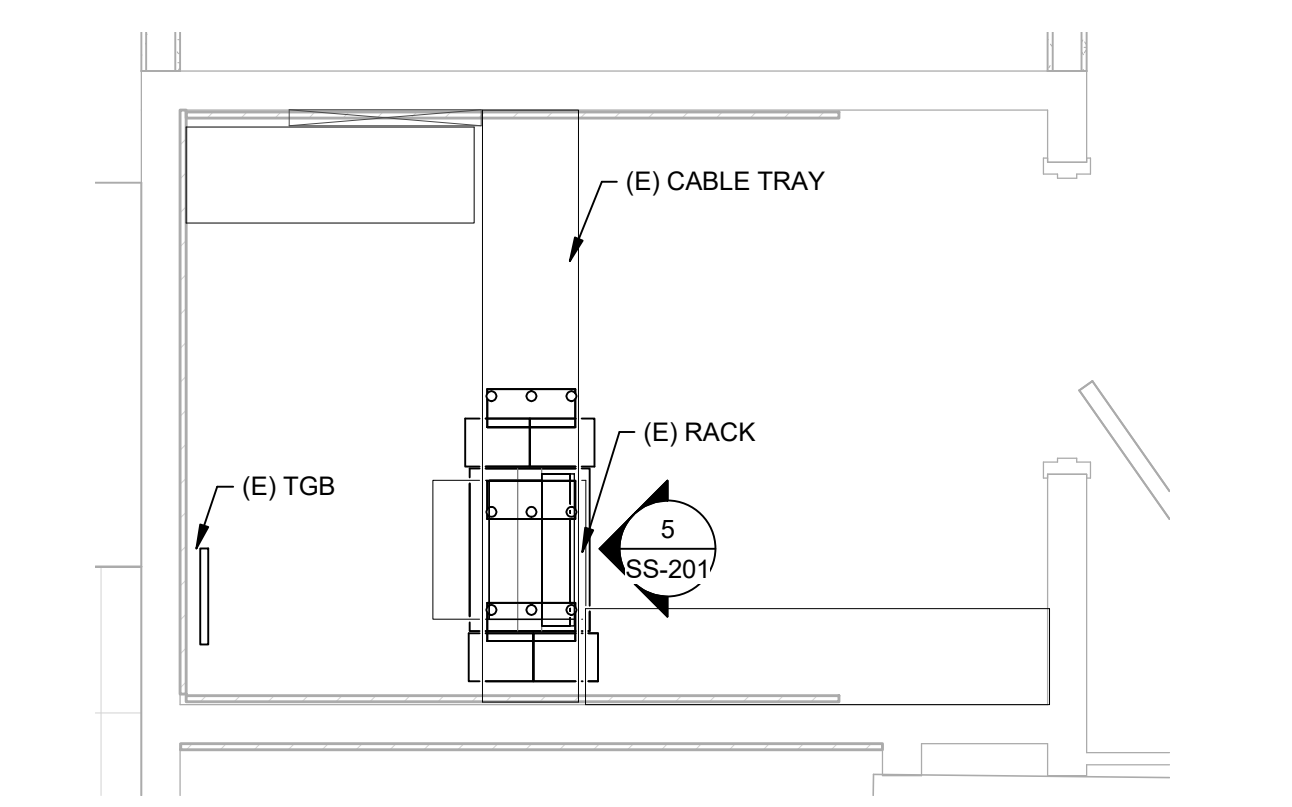
DRAWING TITLE:  
**SPECIAL SYSTEMS  
 ENLARGED PLAN**

SHEET NO.:  
**SS-201**

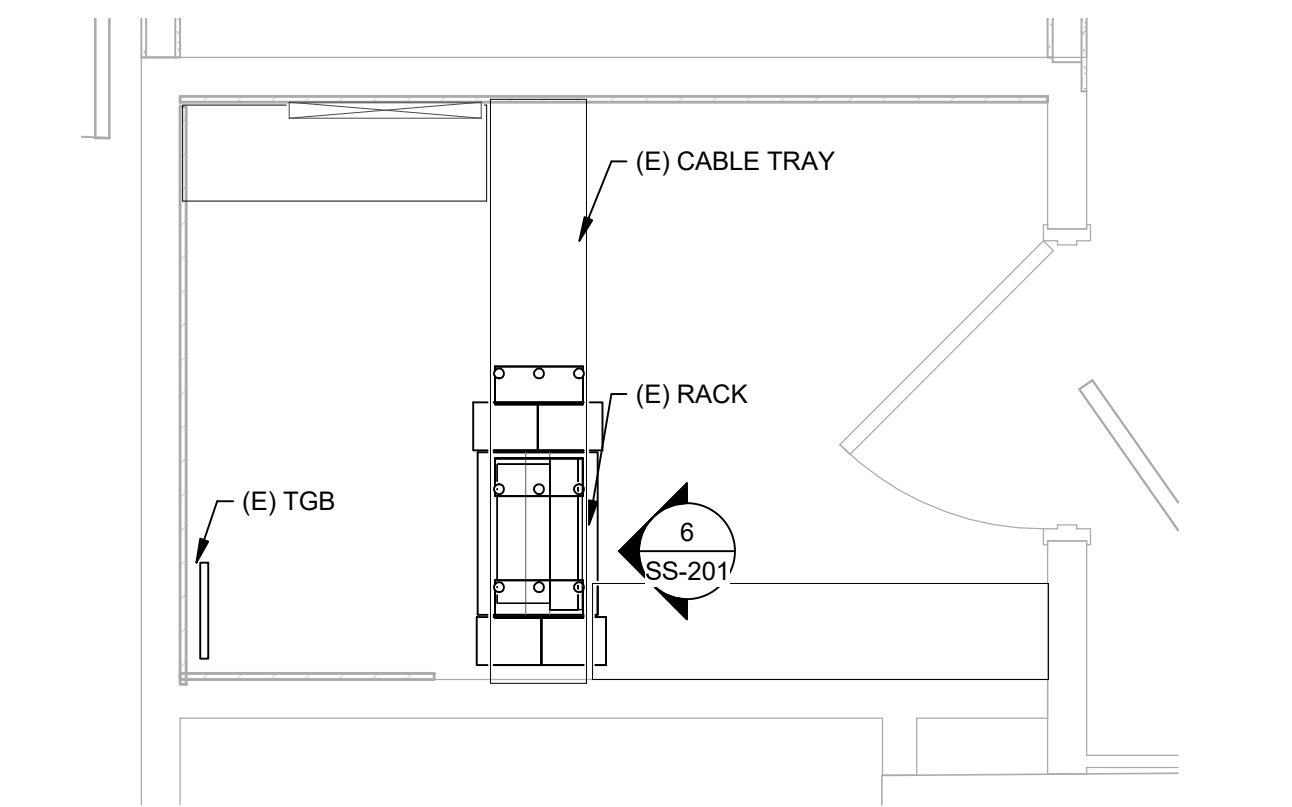
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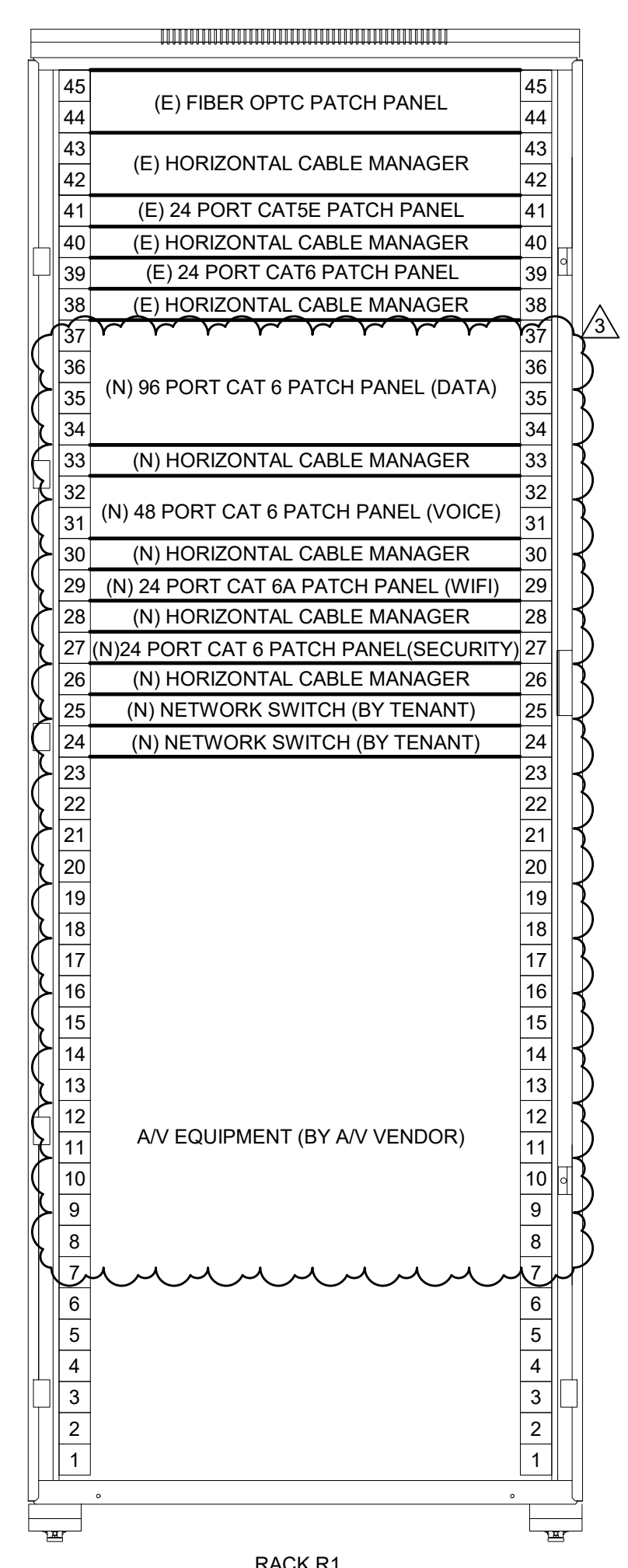
1 SPECIAL SYSTEMS ENLARGED PLAN - EIGHTH FLOOR - EAST IDF ROOM  
 1/2" = 1'-0"



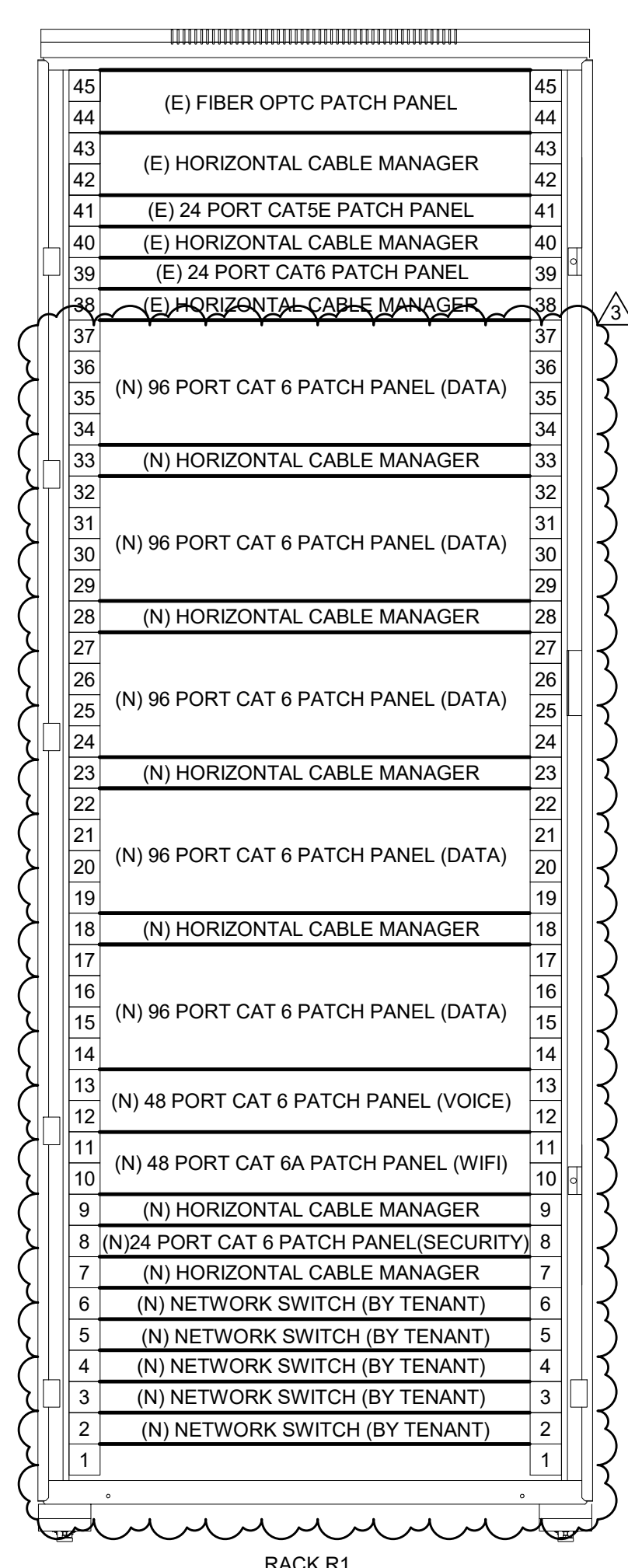
2 SPECIAL SYSTEMS ENLARGED PLAN - NINTH FLOOR - EAST IDF ROOM  
 1/2" = 1'-0"



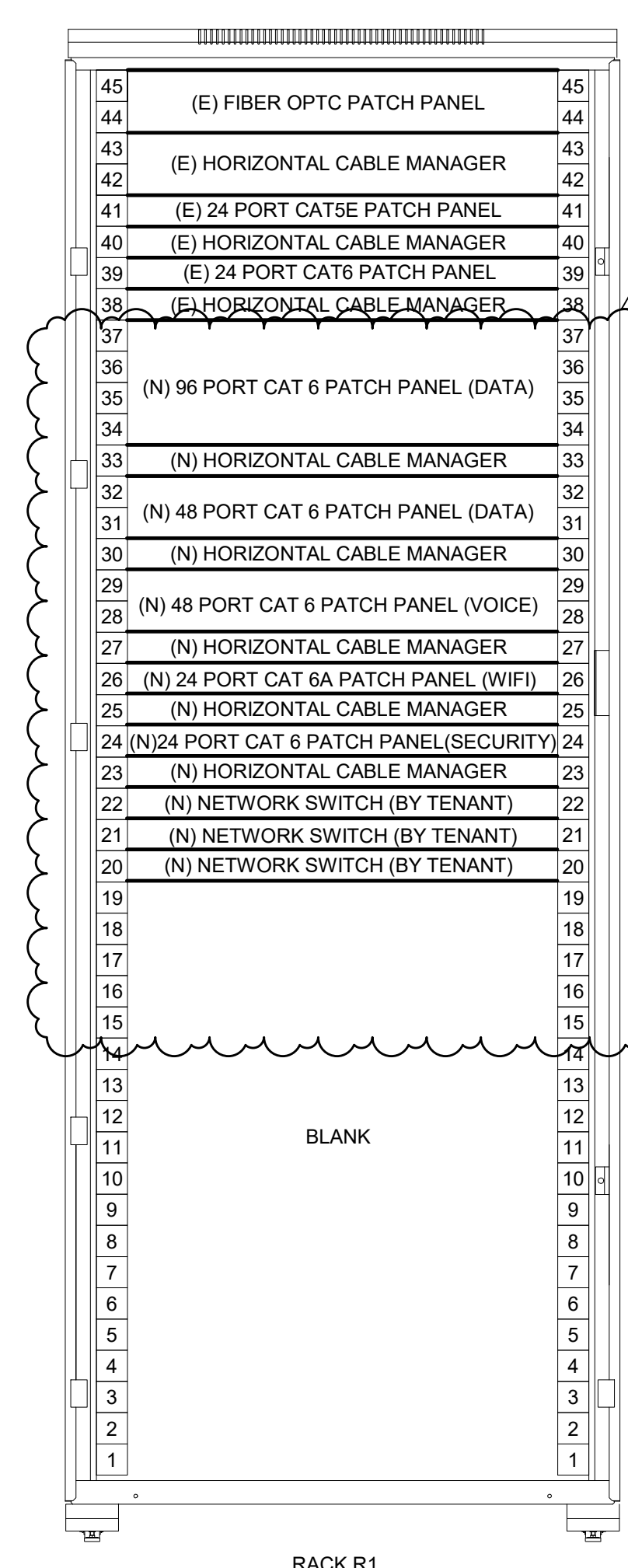
3 SPECIAL SYSTEMS ENLARGED PLAN - TENTH FLOOR - EAST IDF ROOM  
 1/2" = 1'-0"



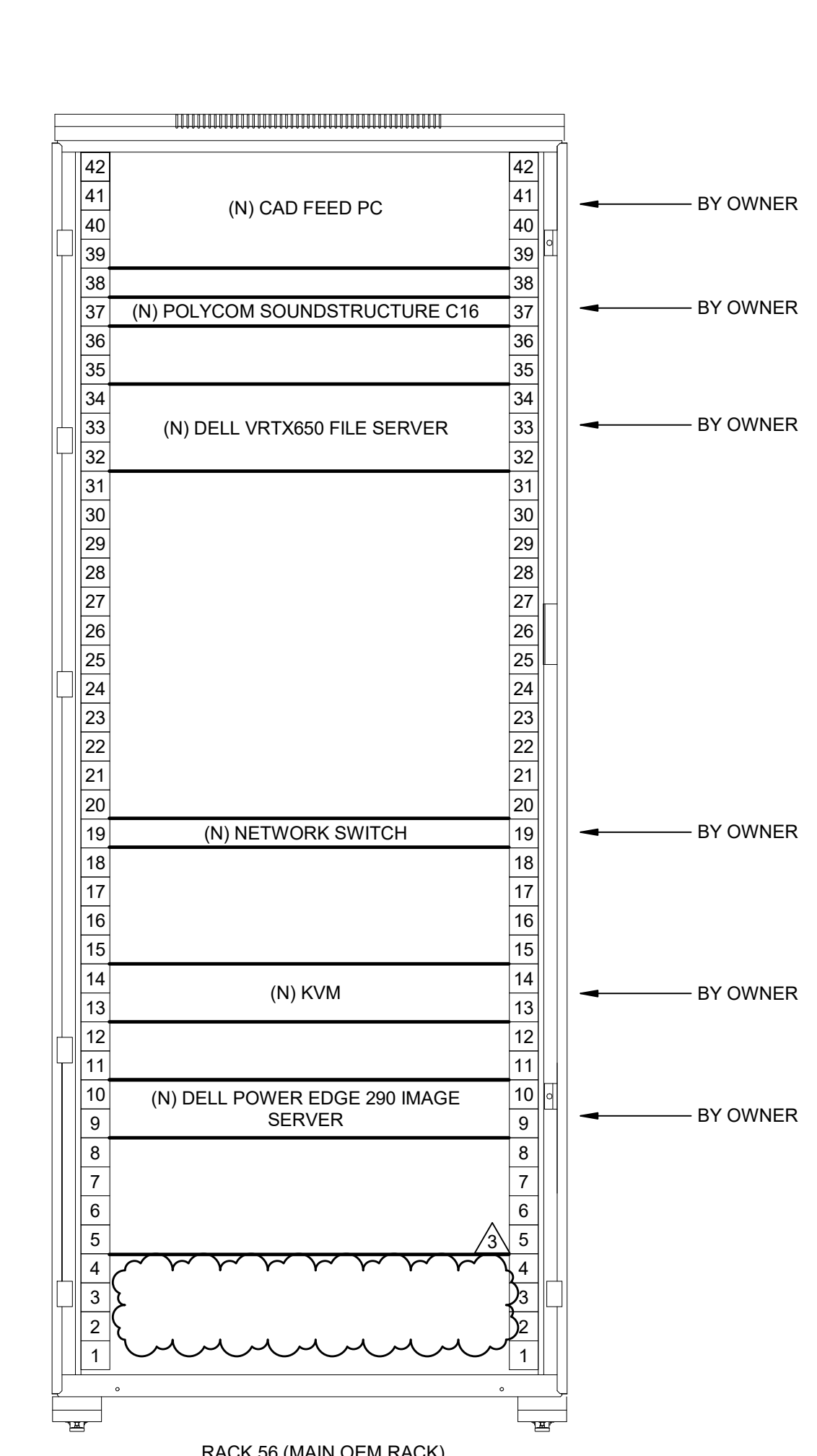
4 8TH FLOOR EAST IDF ROOM RACK ELEVATION  
 NTS



5 9TH FLOOR EAST IDF ROOM RACK ELEVATION  
 NTS



6 10TH FLOOR EAST IDF ROOM RACK ELEVATION  
 NTS



7 2ND FLOOR DATA CENTER RACK #56 ELEVATION  
 NTS





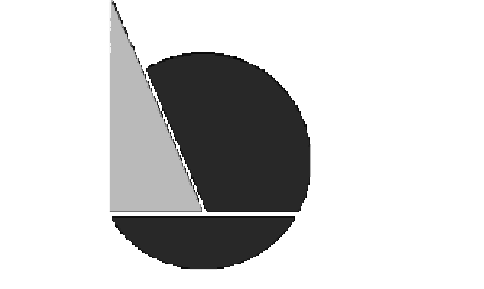
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PROJECT NUMBER: 304103-120 OCC  
SCALE: 1/4" = 1'-0"  
DATE: 07/07/2020  
DRAWN BY: Author  
CHECKED BY: Checker

DRAWING TITLE:  
**SPECIAL SYSTEMS  
GROUNDING 9TH  
FLOOR NEW WORK  
PLAN**

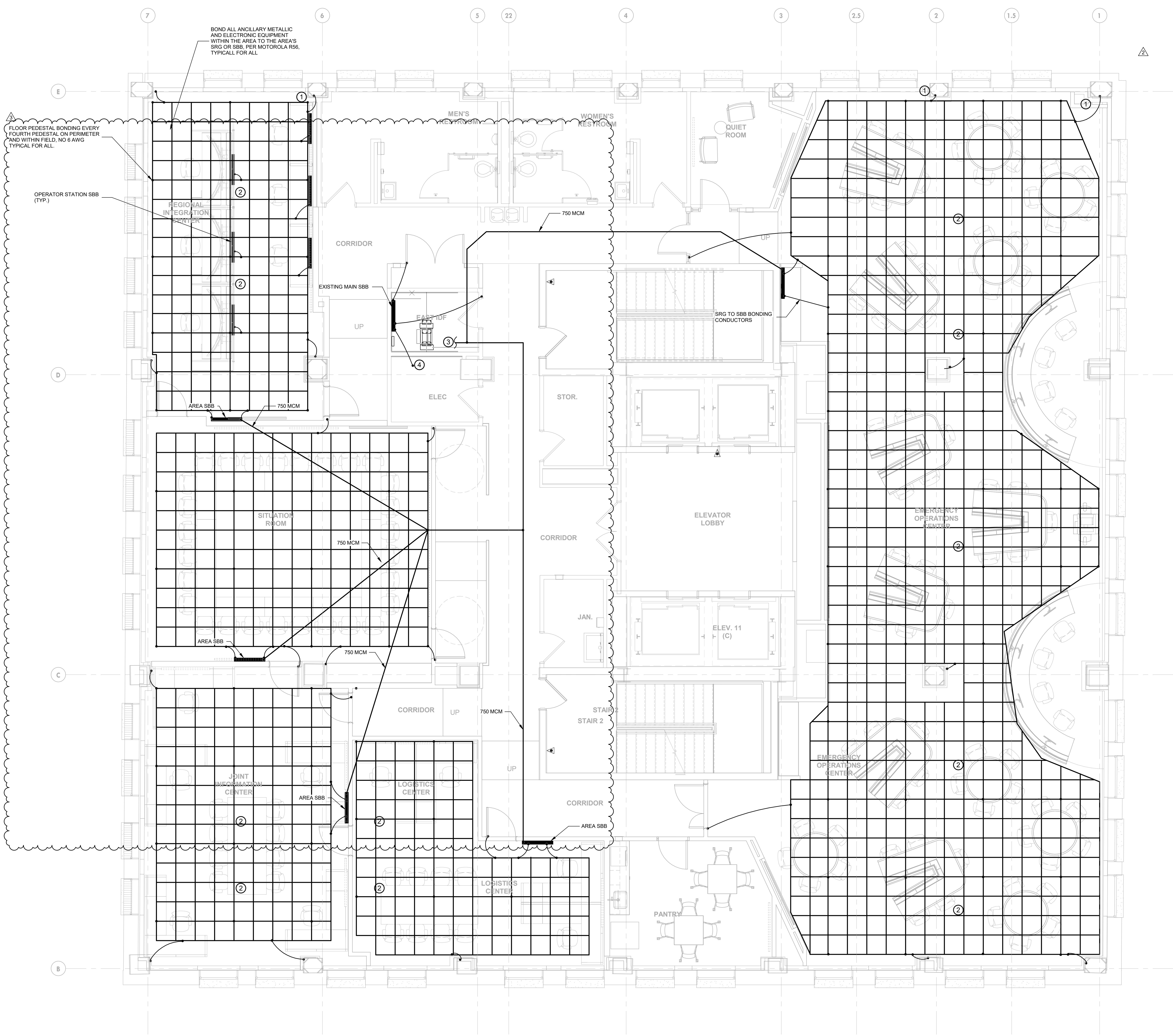
SHEET NO.:  
**SS-409**

**GENERAL NOTES:**

1. REFER TO SHEET SS-002 FOR GENERAL NOTES AND SHEET SS-001 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO SHEET SS-501 FOR SINGLE LINE DIAGRAM.
3. REFER TO SHEET SS-601 AND SS-602 DETAILS.
4. REFER TO SHEET SS-701 FOR SCHEDULES.
5. COORDINATE WORK WITH OTHER DISCIPLINES AS REQUIRED.

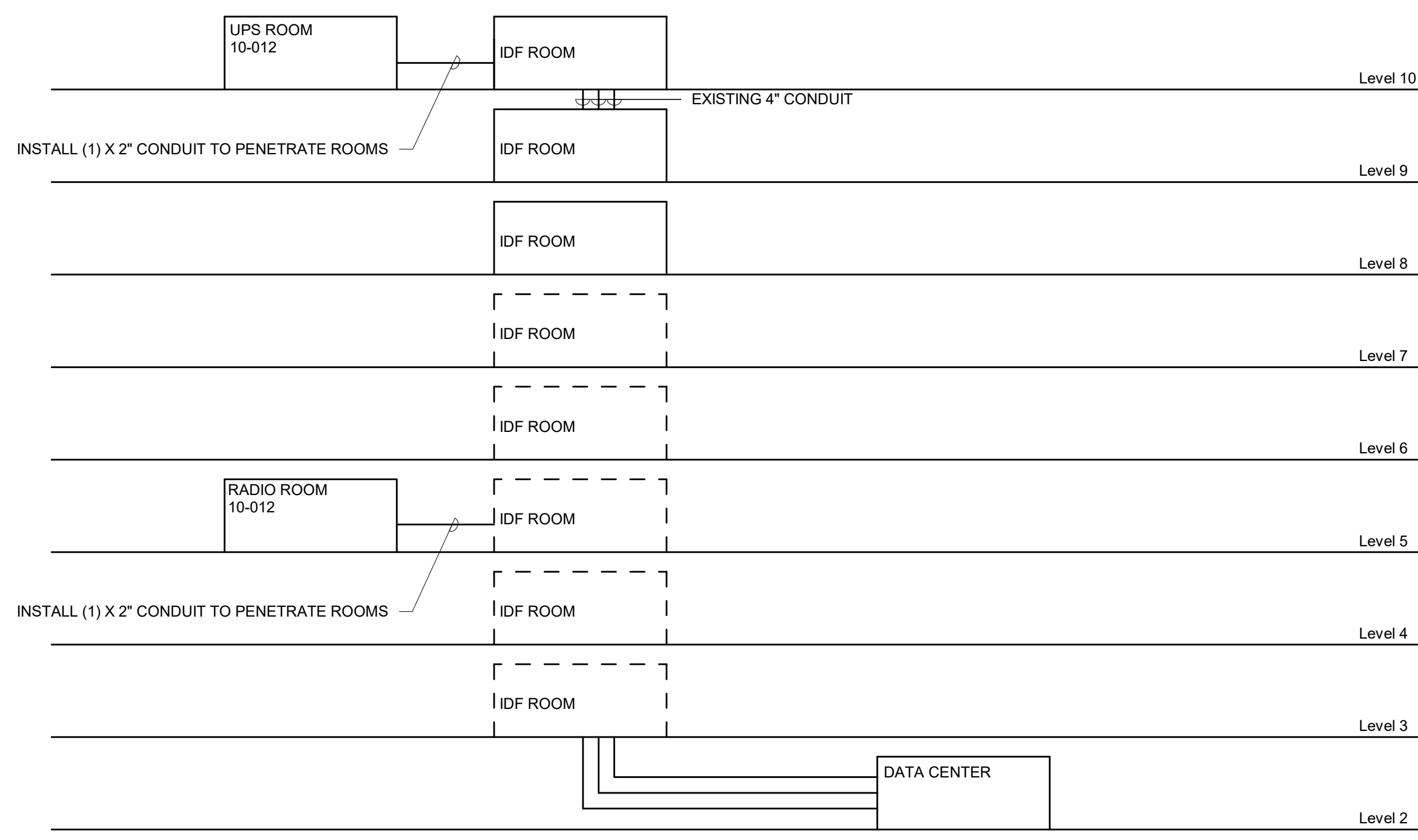
**KEYED NOTES:**

- ① ALL COLUMNS EXOTHERMALLY BONDED TO THE SIGNAL REFERENCE GRID (SRG). USE #6 STRANDED COPPER.
- ② BOND ALL ANCILLARY METALLIC AND ELECTRONIC EQUIPMENT WITHIN THE AREA TO THE AREA'S SRG OR SBB, PER MOTOROLA R56, TYPICAL FOR ALL.
- ③ EXTEND EXISTING BONDING BACKBONE CONDUCTOR TO CONNECT TO AREA SBB'S.
- ④ BOND TO 9TH LEVEL DISTRIBUTION ELECTRICAL PANEL PER R56.

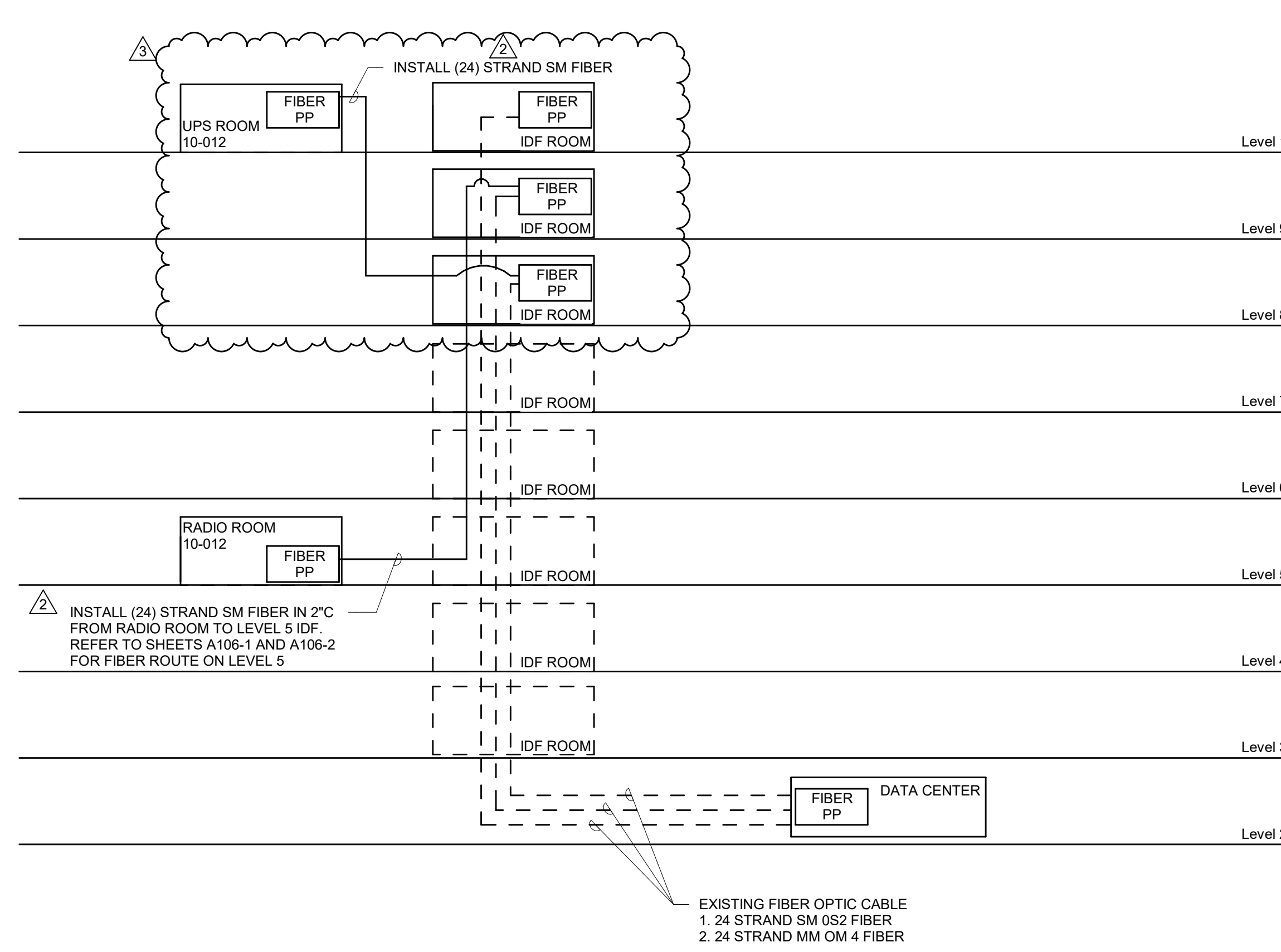


① SPECIAL SYSTEMS GROUNDING NEW WORK PLAN - NINTH FLOOR  
1/4" = 1'-0"

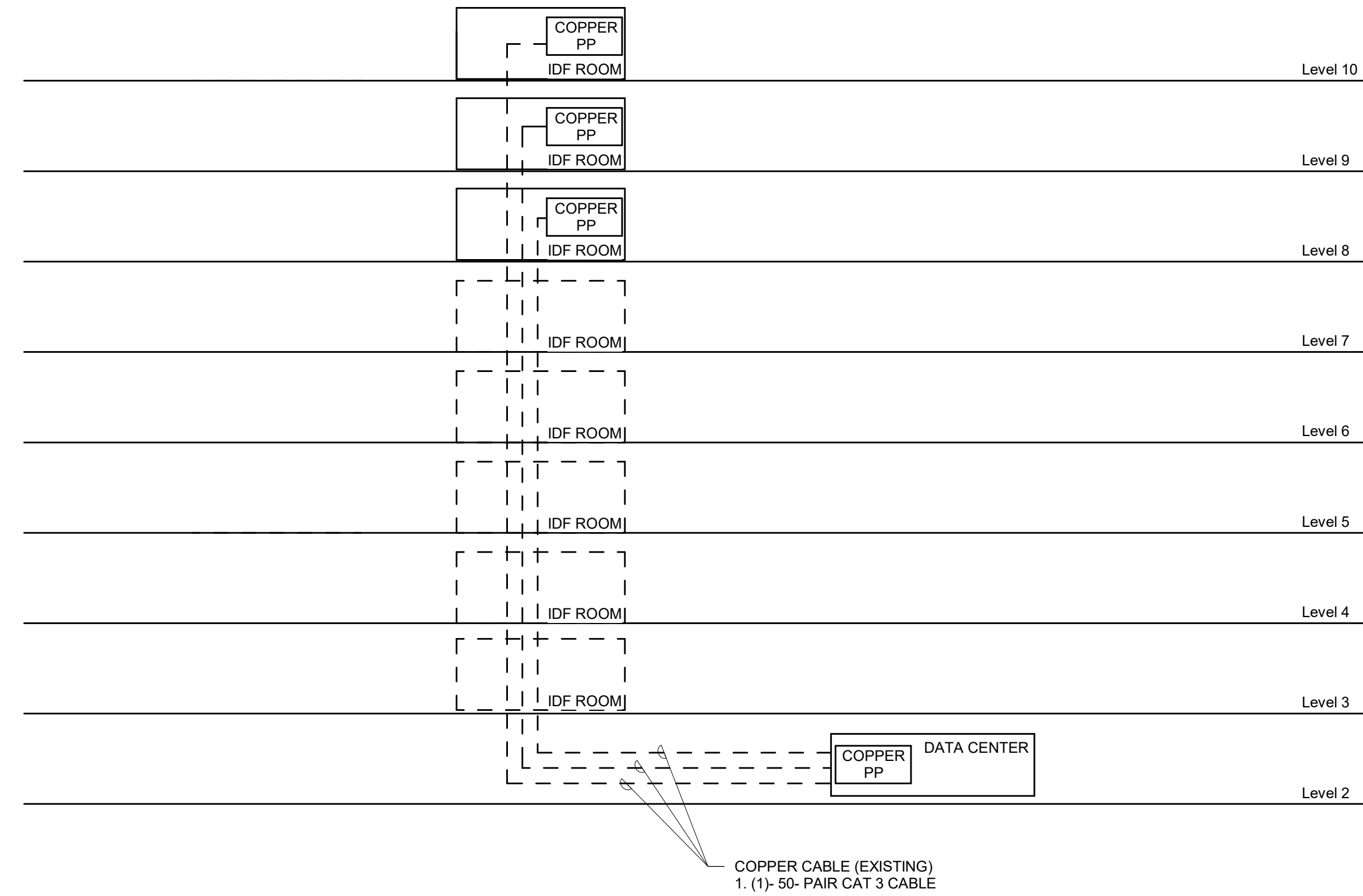




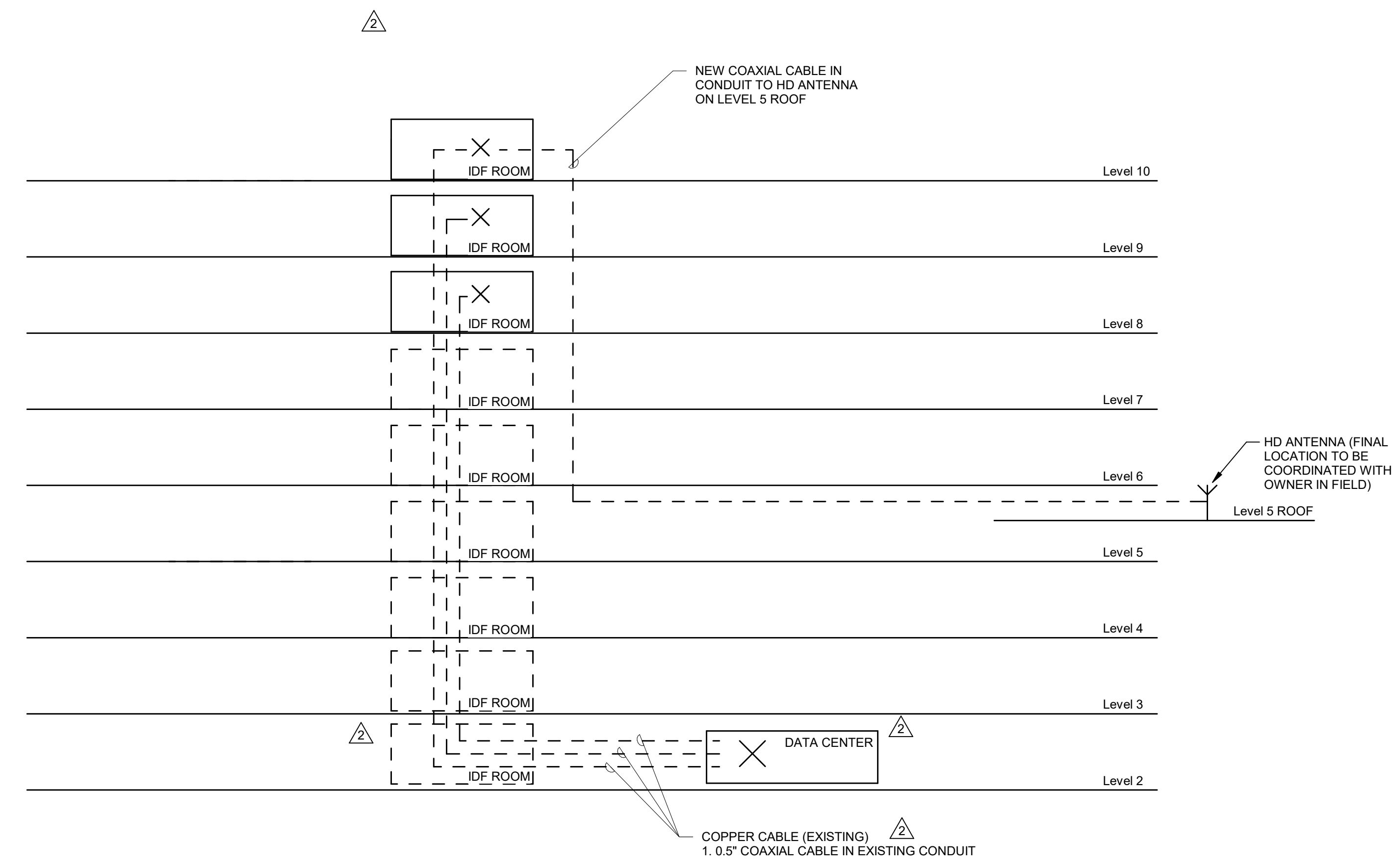
1 CONDUIT SINGLE LINE DIAGRAM  
NOT TO SCALE



2 FIBER SINGLE LINE DIAGRAM  
NOT TO SCALE



3 COPPER SINGLE LINE DIAGRAM  
NOT TO SCALE



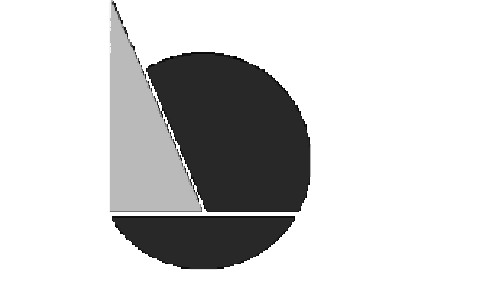
4 COAXIAL SINGLE LINE DIAGRAM  
NOT TO SCALE



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428 North 2nd Street  
Philadelphia, PA 19123  
Telephone: 215 413 3700



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61 Wilmington-West Chester Pike  
Chadds Ford, PA 19317  
P (610) 459-7900  
F (610) 459-7950  
aroraengineers.com



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9/18/20  
(NOT FOR CONSTRUCTION)

- ISSUES/REVISIONS:
- 1 2020-09-18 ISSUED FOR BIDS
  - 2 2020-10-15 ADDENDUM NO. 1
  - 3 2020-11-02 ADDENDUM NO. 3

PROJECT NUMBER: 304103-120-OC  
SCALE: NOT TO SCALE  
DATE: 07/07/2020  
DRAWN BY: Author  
CHECKED BY: Checker

DRAWING TITLE:  
SPECIAL SYSTEMS  
SINGLE LINE  
DIAGRAM 2

SHEET NO:  
SS-502





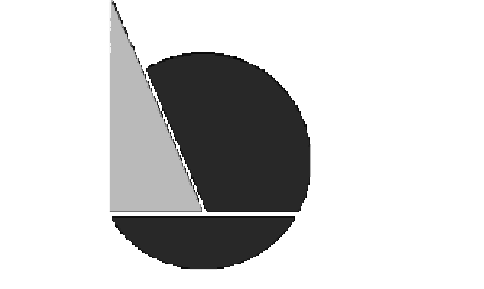
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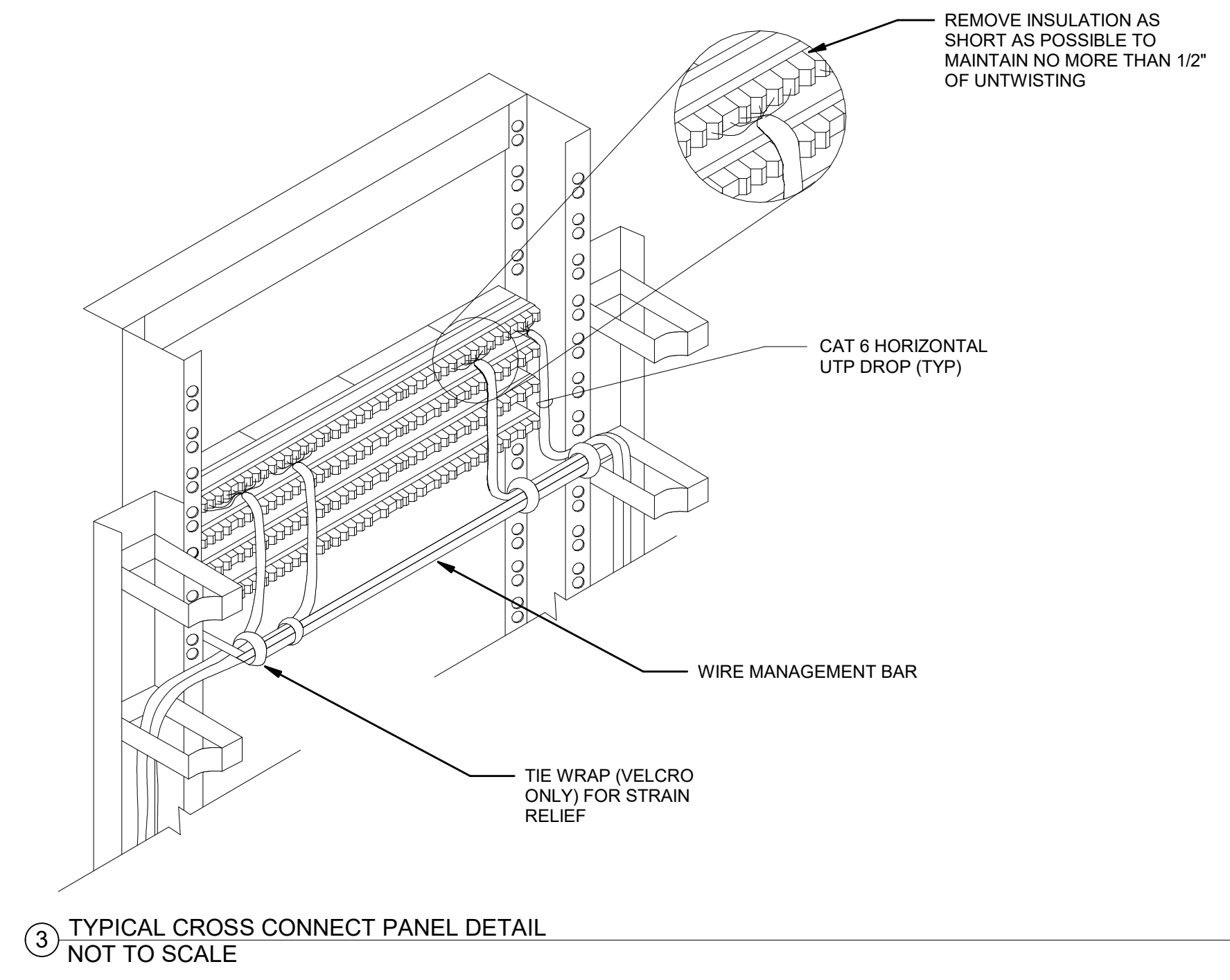
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SCALE: NOT TO SCALE  
DATE: 07/07/2020  
DRAWN BY: SM  
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DRAWING TITLE:  
**SPECIAL SYSTEMS  
DETAILS**

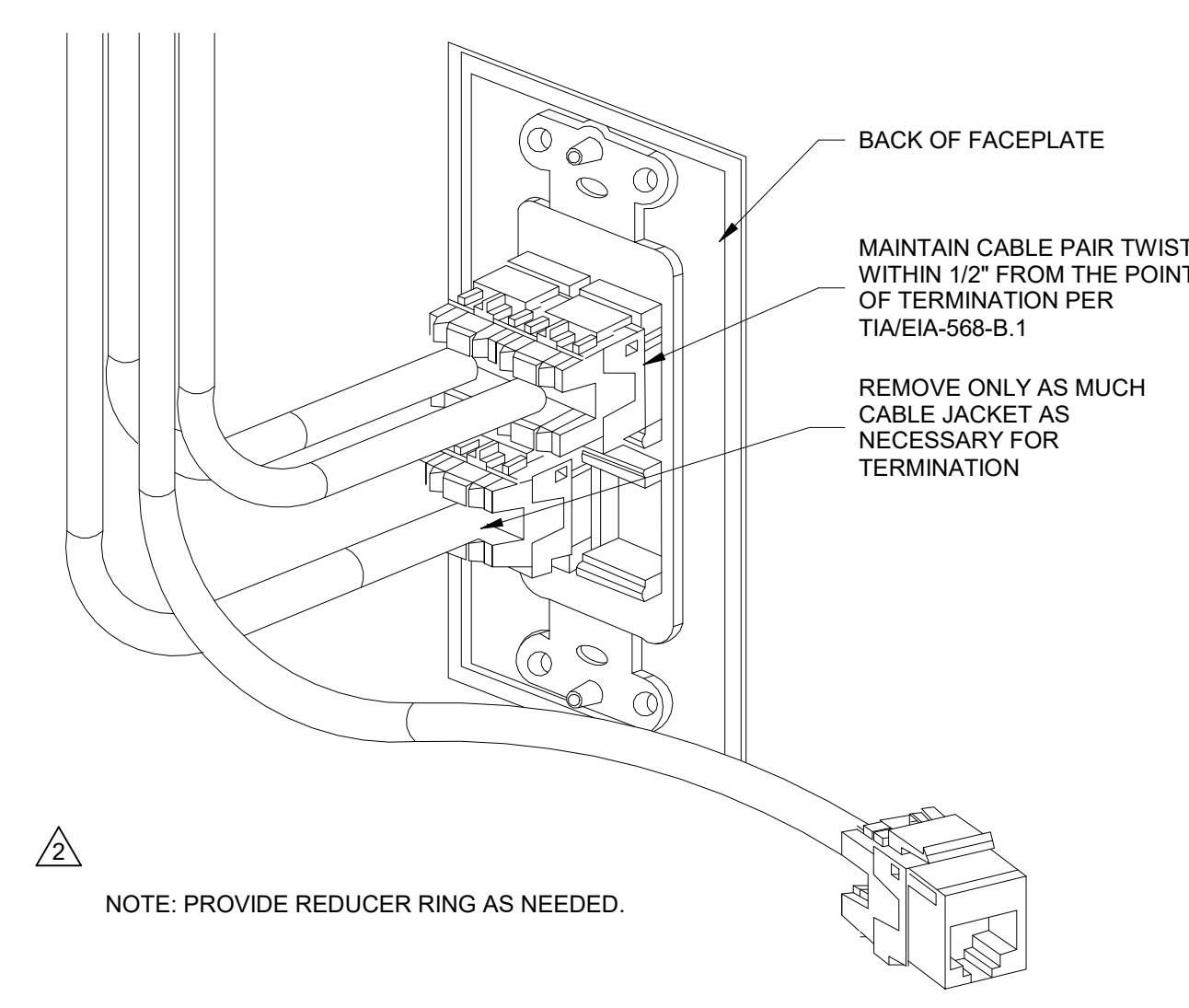
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**SS-601**

PRINTED ON: 11/2/2020 3:48:59 PM

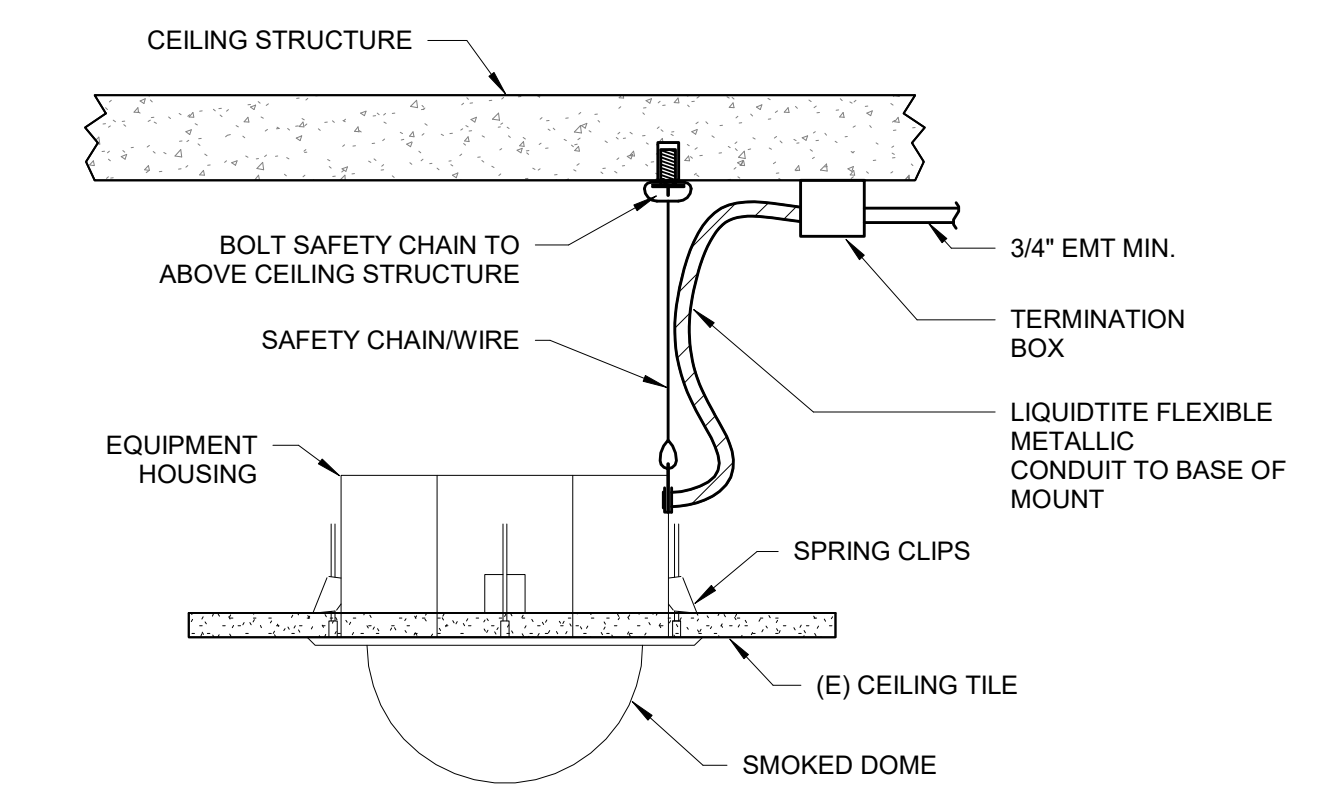


3 TYPICAL CROSS CONNECT PANEL DETAIL  
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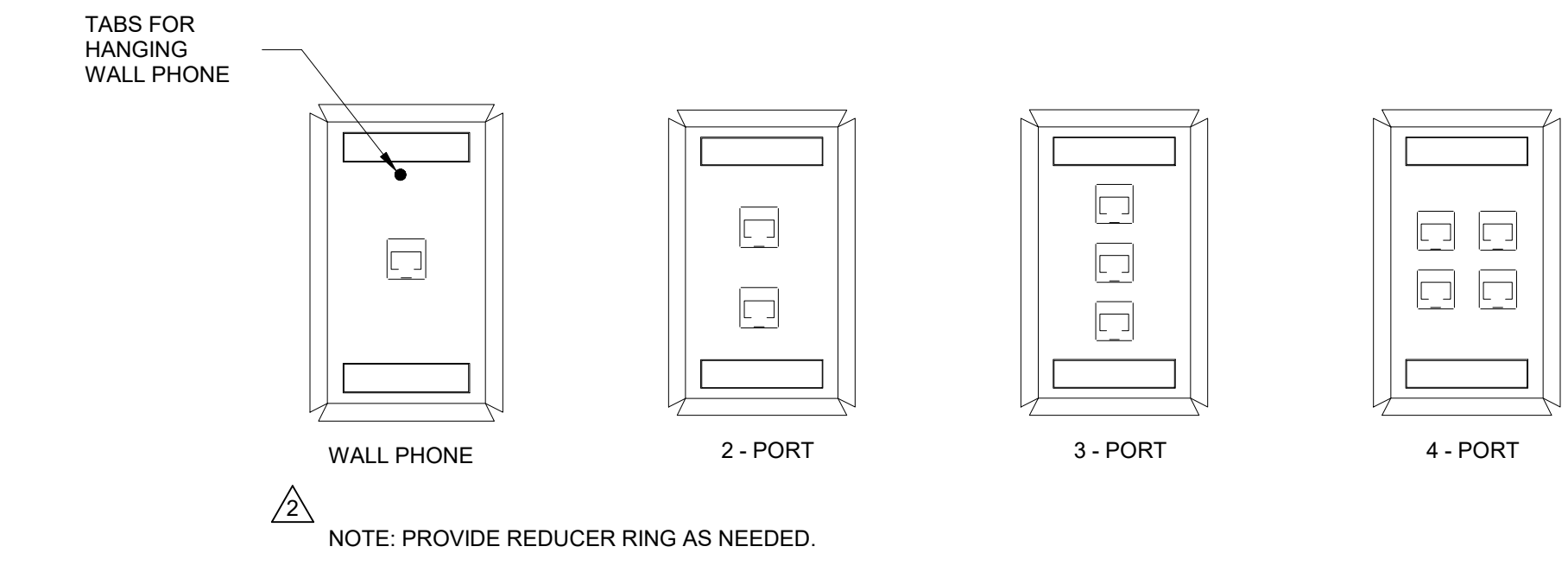


2 FACEPLATE TERMINATION  
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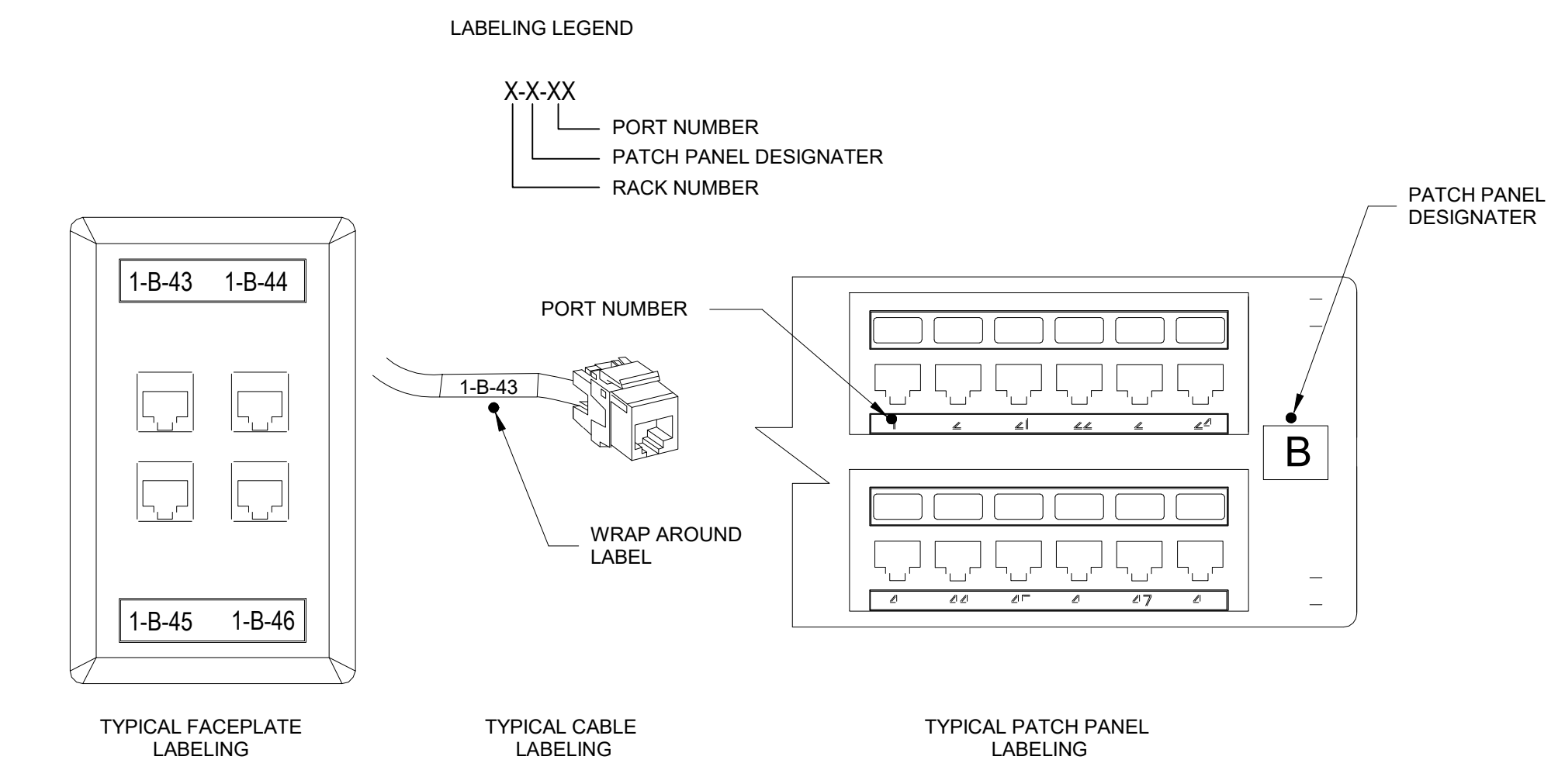
NOTE: PROVIDE REDUCER RING AS NEEDED.



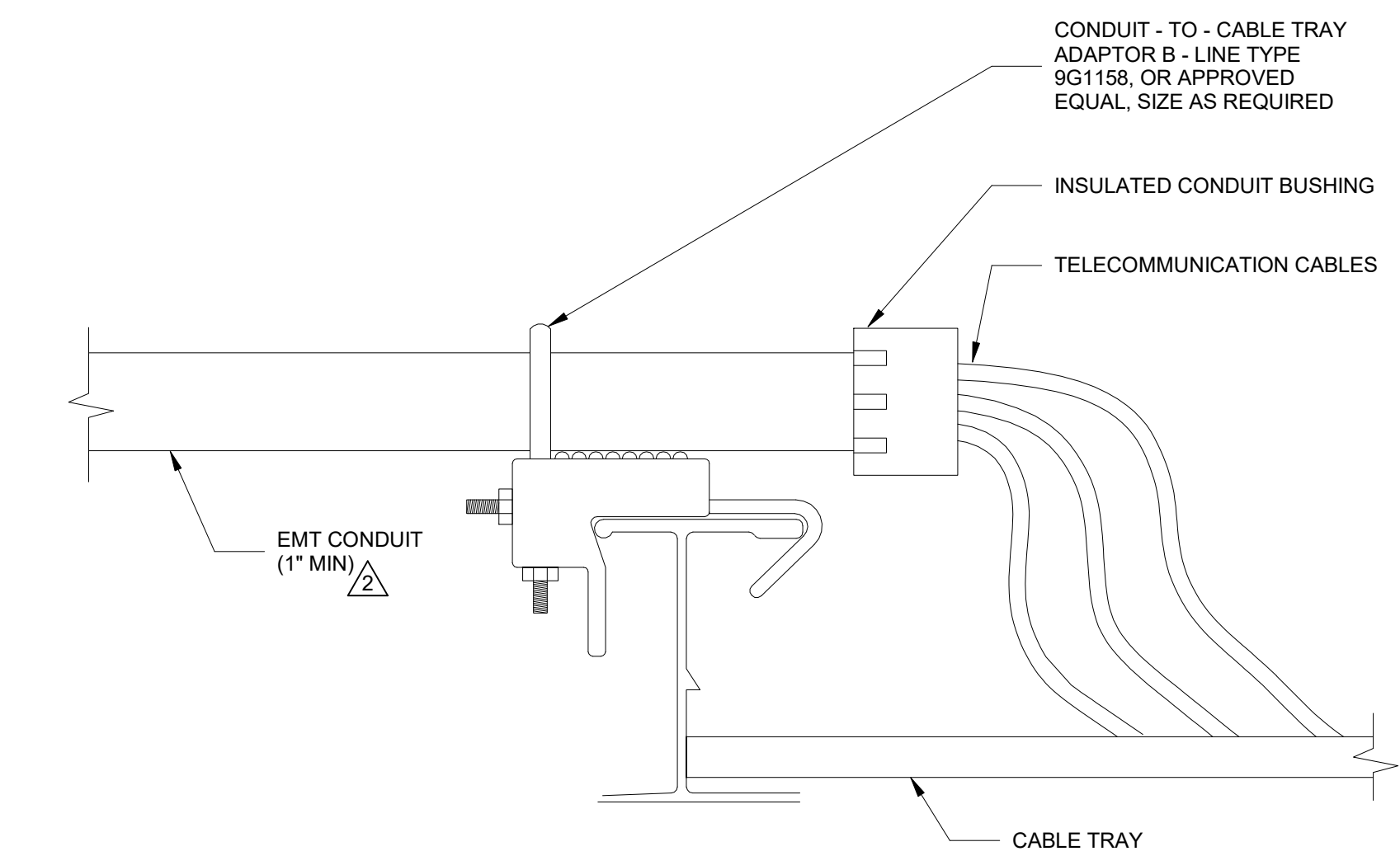
1 TYPICAL IN-CEILING DOME CAMERA  
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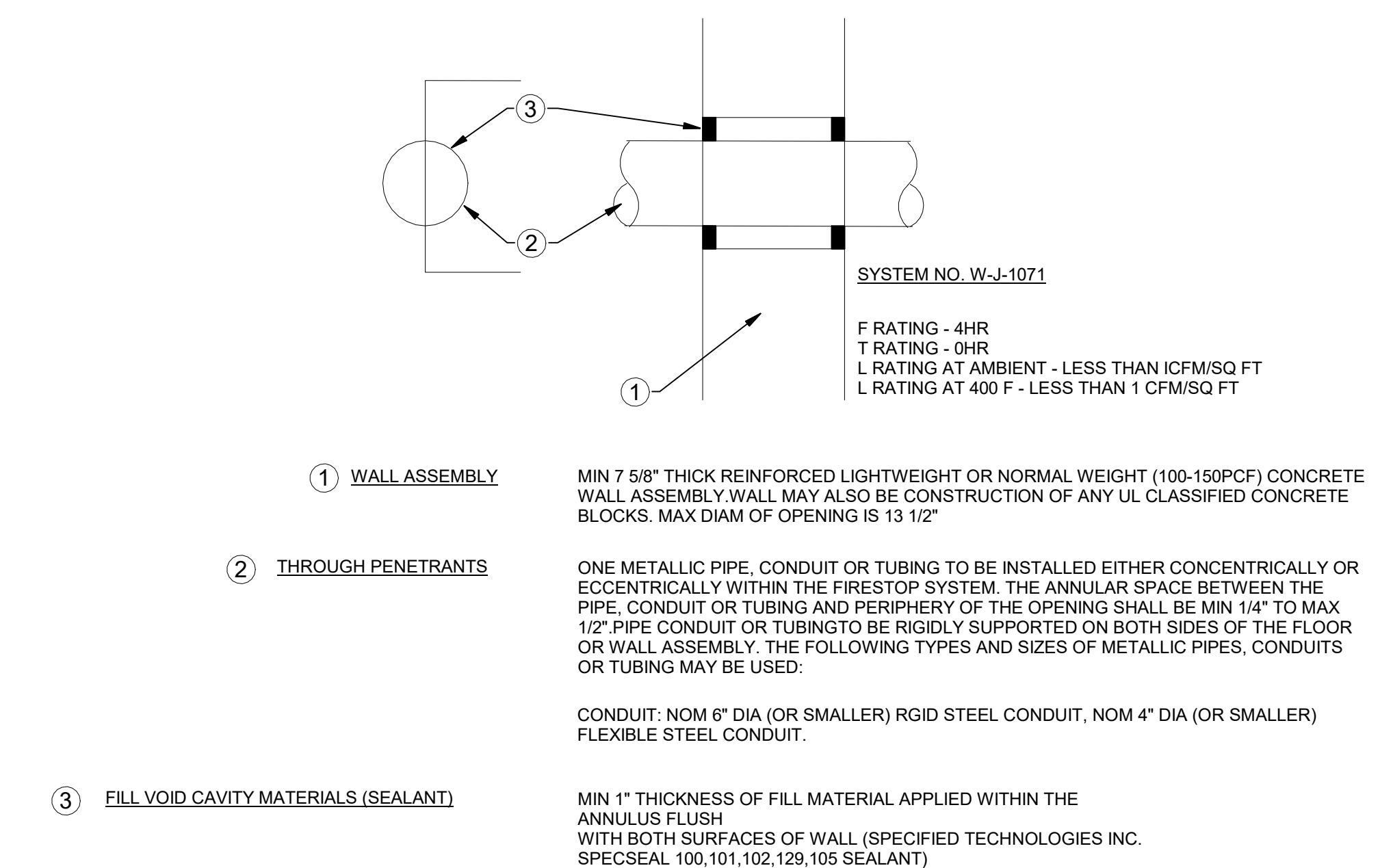
4 TYPICAL FACEPLATES - DETAIL  
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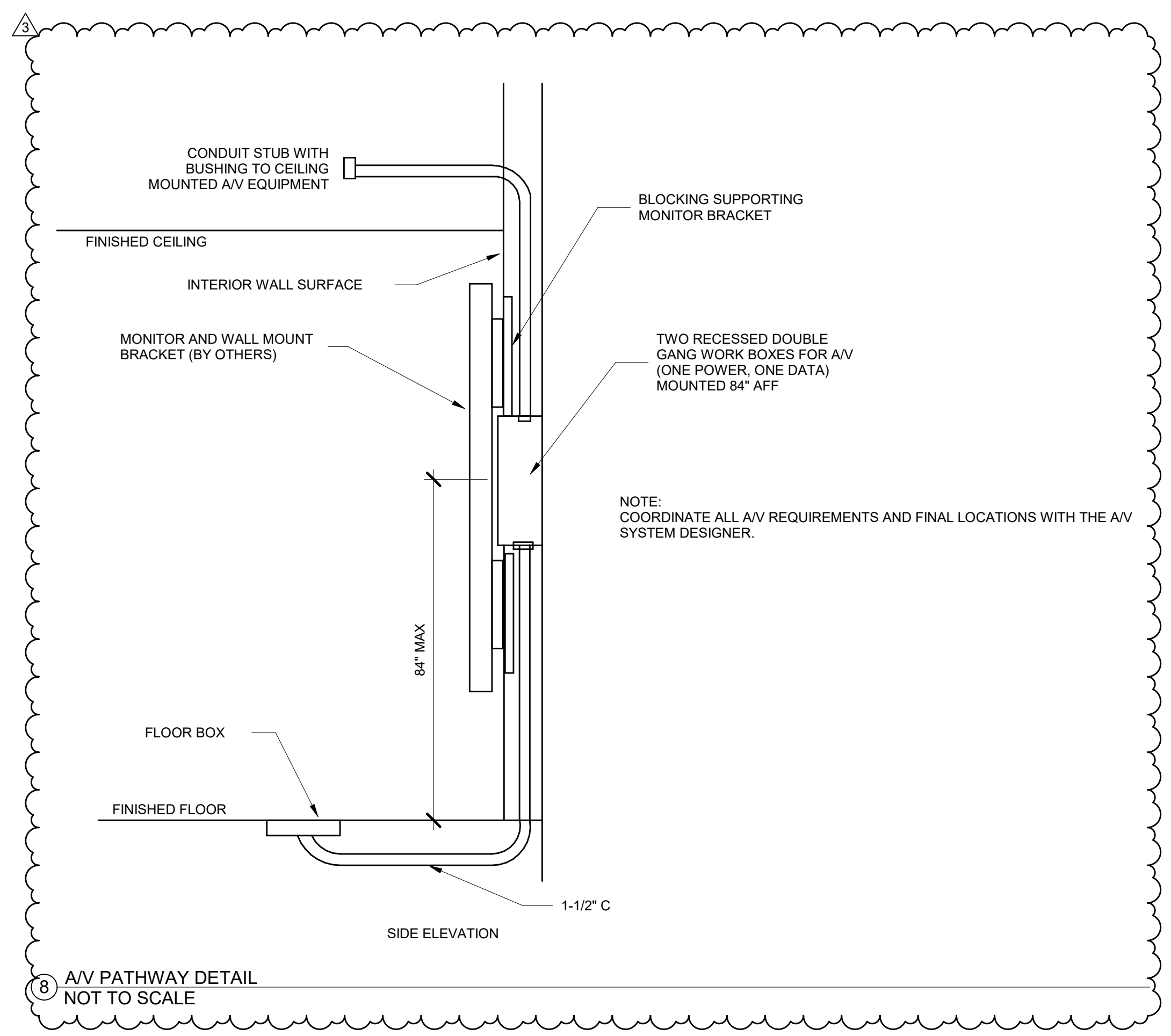
5 LABELING - DETAIL  
NOT TO SCALE



6 CONDUIT TO CABLE TRANSITION  
NOT TO SCALE

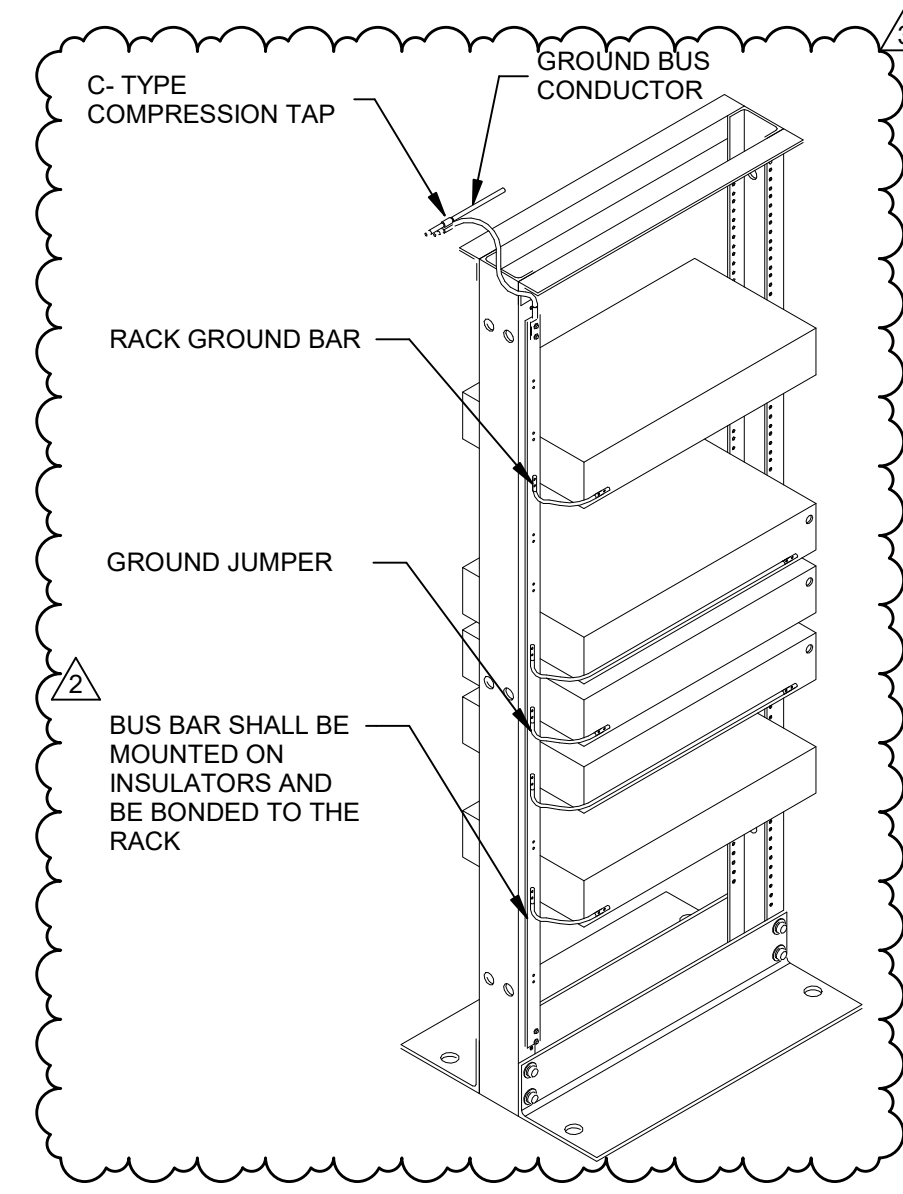


7 TYPICAL FIRE RATED WALL PENETRATION  
NOT TO SCALE

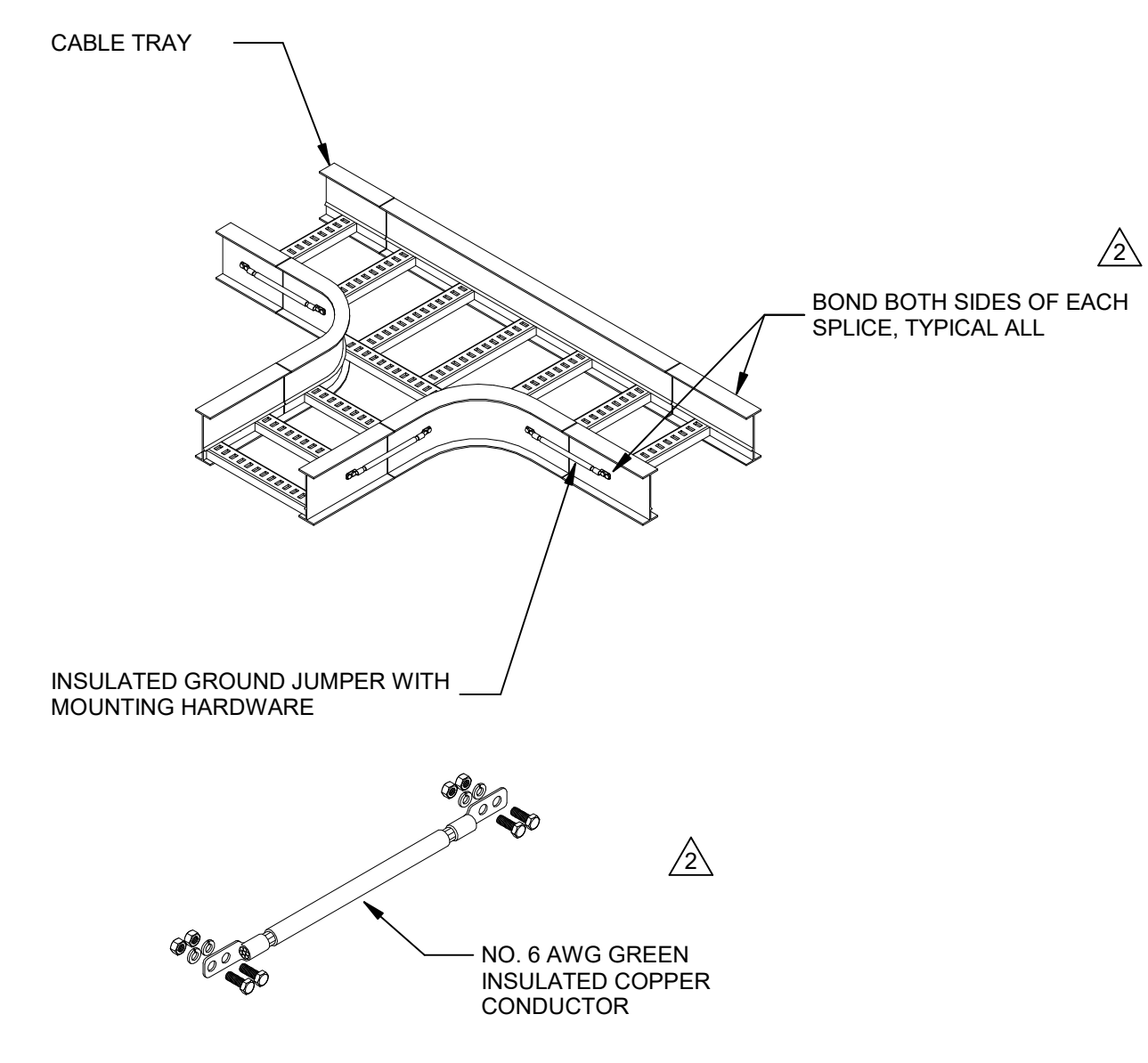


8 AV PATHWAY DETAIL  
NOT TO SCALE

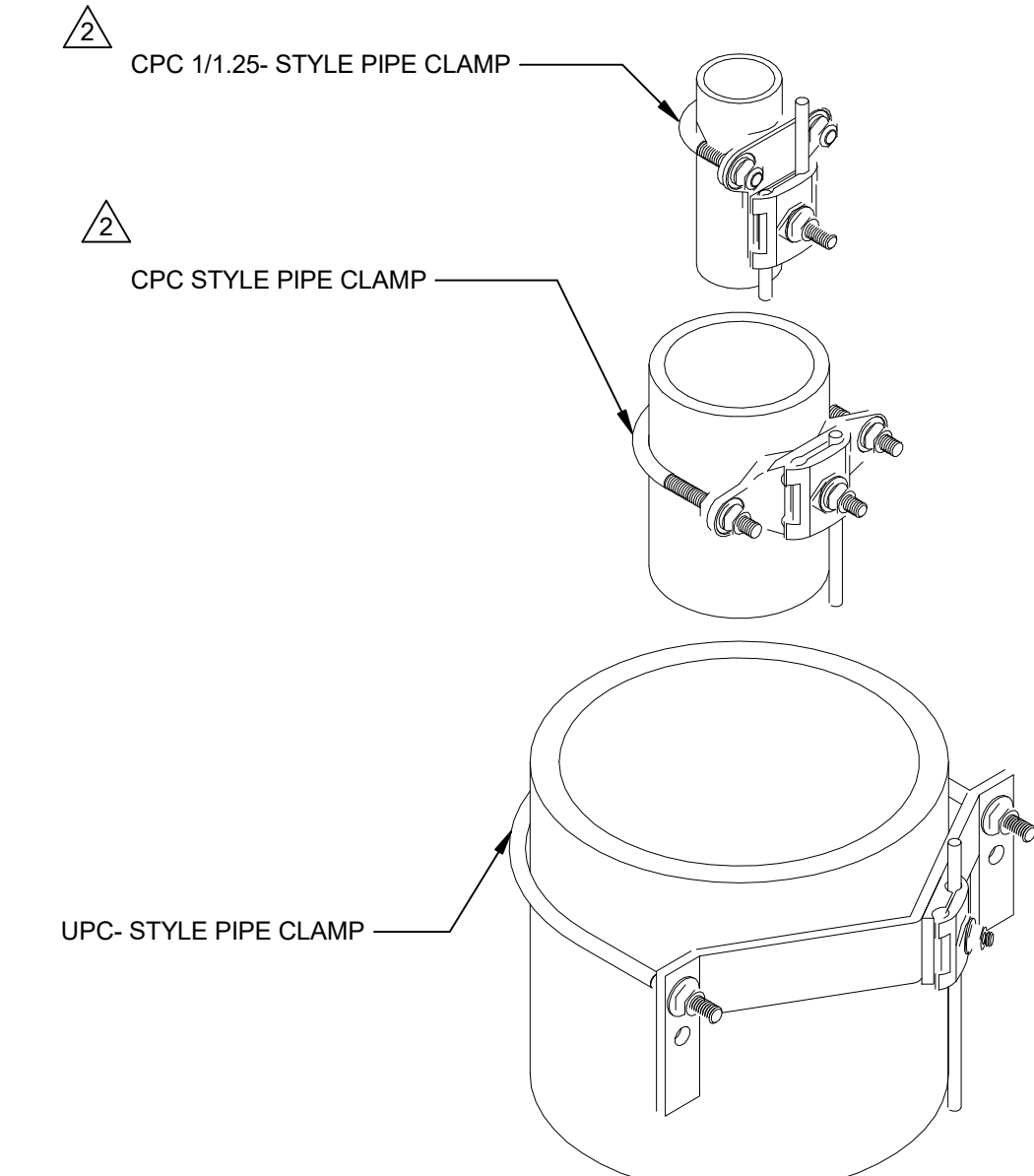




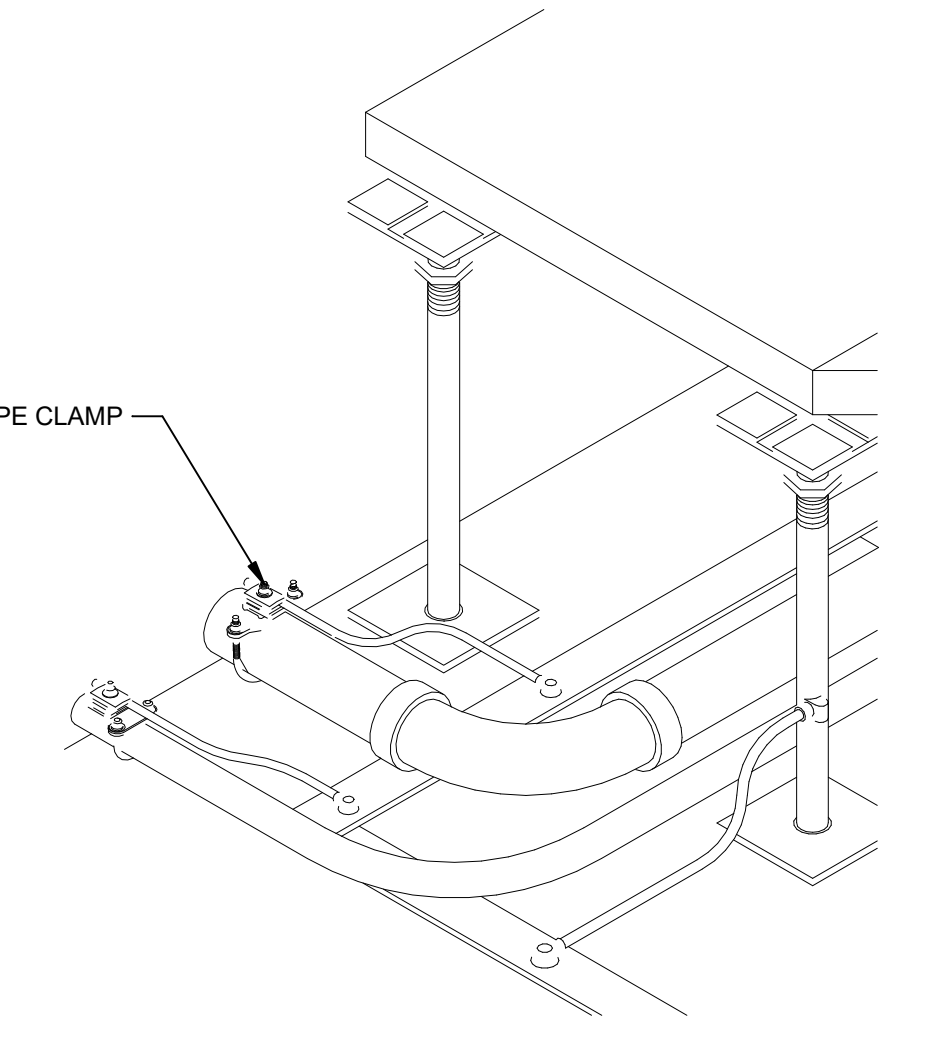
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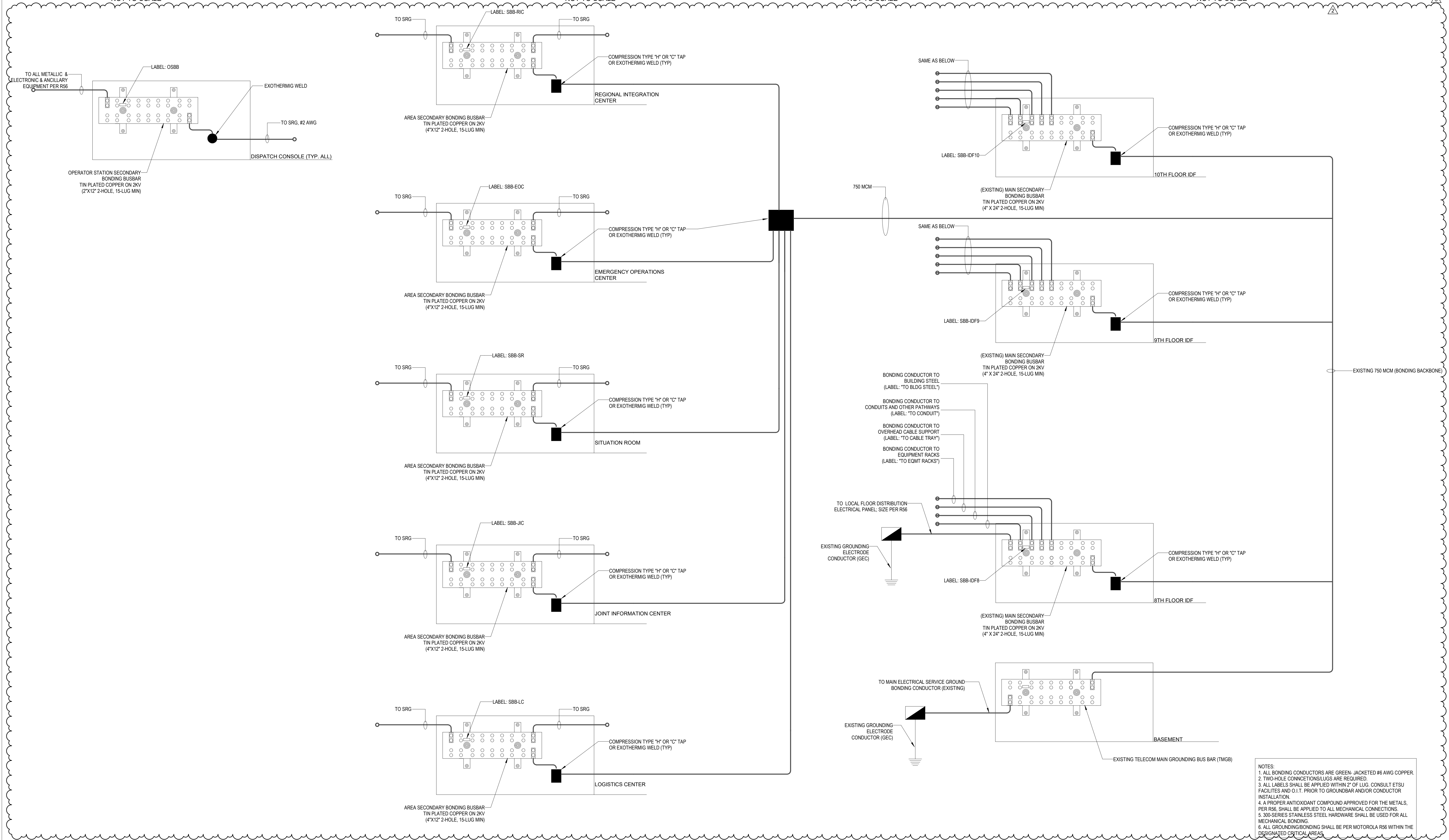
2 BONDING DETAIL SERIES PIPE CLAMPS  
NOT TO SCALE



3 CONDUIT TO SIGNAL REFERENCE GRID BONDING DETAIL  
NOT TO SCALE



4 RAISED FLOOR PEDESTAL TO SIGNAL REFERENCED GRID  
NOT TO SCALE



5 TELECOMMUNICATIONS GROUNDING DETAILS  
1" = 1'-0"

NOTES:  
1. ALL BONDING CONDUCTORS ARE GREEN-JACKETED #6 AWG COPPER.  
2. TWO-HOLE CONNECTIONS LUGS ARE REQUIRED.  
3. ALL LABELS SHALL BE APPLIED WITHIN 2" OF LUG. CONSULT ETSU FACILITIES AND O.I.T. PRIOR TO GROUNDING AND/OR CONDUCTOR INSTALLATION.  
4. A PROPER ANTIOXIDANT COMPOUND APPROVED FOR THE METALS PER R56 SHALL BE APPLIED TO ALL MECHANICAL CONNECTIONS.  
5. 300-SERIES STAINLESS STEEL HARDWARE SHALL BE USED FOR ALL MECHANICAL BONDING.  
6. ALL GROUNDING/BONDING SHALL BE PER MOTOROLA R56 WITHIN THE DESIGNATED CRITICAL AREAS.



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3 2020-11-02 ADDENDUM NO. 3

PROJECT NUMBER: 304103-120 OC  
SCALE: As indicated  
DATE: 07/07/2020  
DRAWN BY: Author  
CHECKED BY: Checker

DRAWING TITLE:  
**SPECIAL SYSTEMS  
DETAILS**

SHEET NO.:

**SS-603**

PRINTED ON: 11/2/2020 3:49:00 PM



SECURITY SURVEILLANCE CAMERA SCHEDULE					
CAMERA NUMBER	CAMERA TYPE	FIELD OF VIEW	MOUNT TYPE	SHEET NUMBER	TERMINATION ROOM
8-C1	180 DEG	CORRIDOR	CEILING	SS-108	EAST IDF ON 8TH FLOOR
8-C2	180 DEG	CORRIDOR	CEILING	SS-108	EAST IDF ON 8TH FLOOR
8-C3	180 DEG	CORRIDOR	CEILING	SS-108	EAST IDF ON 8TH FLOOR
8-C4	180 DEG	CORRIDOR	CEILING	SS-108	EAST IDF ON 8TH FLOOR
9-C1	180 DEG	CORRIDOR	CEILING	SS-109	EAST IDF ON 9TH FLOOR
9-C2	180 DEG	CORRIDOR	CEILING	SS-109	EAST IDF ON 9TH FLOOR
9-C3	180 DEG	CORRIDOR	CEILING	SS-109	EAST IDF ON 9TH FLOOR
9-C4	180 DEG	CORRIDOR	CEILING	SS-109	EAST IDF ON 9TH FLOOR
9-C5	180 DEG	CORRIDOR	CEILING	SS-109	EAST IDF ON 9TH FLOOR
10-C1	180 DEG	CORRIDOR	CEILING	SS-110	EAST IDF ON 10TH FLOOR
10-C2	180 DEG	CORRIDOR	CEILING	SS-110	EAST IDF ON 10TH FLOOR
10-C3	180 DEG	CORRIDOR	CEILING	SS-110	EAST IDF ON 10TH FLOOR
10-C4	180 DEG	CORRIDOR	CEILING	SS-110	EAST IDF ON 10TH FLOOR
10-C5	180 DEG	CORRIDOR	CEILING	SS-110	EAST IDF ON 10TH FLOOR
10-C6	180 DEG	CORRIDOR	CEILING	SS-110	EAST IDF ON 10TH FLOOR
10-C7	180 DEG	CORRIDOR	CEILING	SS-110	EAST IDF ON 10TH FLOOR
10-C8	180 DEG	CORRIDOR	CEILING	SS-110	EAST IDF ON 10TH FLOOR

ACS DOOR SCHEDULE									
DOOR NUMBER	LOCATION IN PLAN	DETAIL	CR	REX (BUILT-IN DOOR HANDLE)	REX (BUILT-IN PANIC BAR)	BMS	ES	AV	FIRE INTERFACE
08-006.1	SS-108	ACS TYPE 2 DOUBLE DOOR	1	0	2	2	2	1	Y
09-006.1	SS-109	ACS TYPE 2 DOUBLE DOOR	1	0	2	2	2	1	Y
09-017.1	SS-109	ACS TYPE 1 SINGLE DOOR	1	1	0	1	1	1	Y
09-016.1	SS-109	ACS TYPE 1 SINGLE DOOR	1	1	0	1	1	1	Y
09-016.2	SS-109	ACS TYPE 1 SINGLE DOOR	1	1	0	1	1	1	Y
09-002.1	SS-109	ACS TYPE 1 SINGLE DOOR	1	1	0	1	1	1	Y
09-015.1	SS-109	ACS TYPE 1 SINGLE DOOR	1	1	0	1	1	1	Y
09-013.1	SS-109	ACS TYPE 1 SINGLE DOOR	1	1	0	1	1	1	Y
09-002.2	SS-109	ACS TYPE 2 DOUBLE DOOR	1	0	2	2	2	1	Y
10-006.1	SS-110	ACS TYPE 2 DOUBLE DOOR	1	0	2	2	2	1	Y
10-012.1	SS-110	ACS TYPE 1 SINGLE DOOR	1	1	0	1	1	1	Y
10-013.1	SS-110	ACS TYPE 2 DOUBLE DOOR	1	0	2	2	2	1	Y
10-021.1	SS-110	ACS TYPE 2 DOUBLE DOOR	1	0	2	2	2	1	Y

BIM\_380/PPSB - Office of Emergency Management/122320\_001\_PPSB-DEM\_SS.rvt

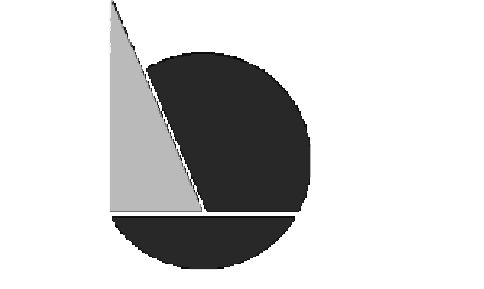


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DRAWING TITLE:  
**SPECIAL SYSTEMS  
SCHEDULES**

SHEET NO.:  
**SS-701**