

BRIGHAM YOUNG UNIVERSITY

CONTINUING EDUCATION OFFICE REMODEL LEVELS 1&4 CONTINUING EDUCATION

HARMAN CONTINUING EDUCATION BUILDING - LEVEL 1 - 111 & LEVEL 4 - 403

ABBREVIATIONS

&	And	FIN.	Finish
L	Angle	FLR.	Floor
@	At Centerline	FLUOR.	Fluorescent
.	Diameter or Round	FURN.	Furnish, Furnished
	Square Feet	GA.	Guage
	Perpendicular	GYP.	Gypsum
#	Pound, Number	HDWD.	Hardwood
(E)	Existing	HDWR.	Hardware
AC	Air Conditioning	HORIZ.	Horizontal
ACC.	Access	HT.	Height
ACOUS.	Acoustical	HVAC	Heating Ventilating & A/C
ADD.	Addendum	INSUL.	Insulation
ADDL.	Additional	L	Length
A.F.F.	Above Finished Floor	MATL.	Material
ALUM.	Aluminum	MAX.	Maximum
ALT.	Alternate	MECH.	Mechanical
APPROX.	Approximate	MANUF.	Manufacturer
ARCH.	Architect(ural)	MIR.	Mirror
AVG.	Average	MISC.	Miscellaneous
BD.	Board	MTL.	Metal
BET.	Between	N.I.C.	Not In Contract
BF.	Board Feet	NO.	Number
BITUM.	Bituminous	N.T.S.	Not To Scale
BLDG.	Building	O.C.	On Center(s)
BLKG.	Blocking	OPNG	Opening
CAB.	Cabinet	OPP.	Opposite
CHAM.	Chamfer	O.T.S.	Open To Structure
CL.	Centerline	P.LAM.	Plastic Laminate
CLG.	Ceiling	PLBG.	Plumbing
CLR.	Clear(ance)	PLYWD.	Plywood
CMU	Concrete Masonry Unit	PREFAB.	Prefabricate
COL.	Column	PREFIN.	Prefinished
CONC.	Concrete	P.S.F.	Pounds per Square Foot
CONSTR.	Construction	P.S.I.	Pounds per Square Inch
CONT.	Continuous	QTY.	Quantity
CONTR.	Contractor	RAD.	Radius
DBL.	Double	REQD.	Required
DEMO.	Demolish, Demolition	RESIL.	Resilient
DIA.	Diameter	SPECS.	Specifications
DIM.	Dimension	SQ.	Square
DN.	Down	S.S.	Stainless Steel
DR.	Door	STD.	Standard
DET.	Detail	STL.	Steel
DWG.	Drawing	TYP.	Typical
EA	Each	T.O.	Top of
ELEC.	Electric(al)	VAT.	Vinyl Asbestos Tile
ELEV.	Elevation	VCT.	Vinyl Composition Tile
EQ.	Equipment	VERT.	Vertical
EQUIP.	Equipment	W/O	Without
EST.	Estimate	SCHED.	Schedule
EXIST.	Existing	SIM.	Similar

NOTE: SEE OTHER CONSULTANT DRAWINGS FOR ADDITIONAL ABBREVIATION INFORMATION

APPROVALS

Ole M. Smith, Assistant Administrative Vice Pres. -- Physical Facilities
Richard Nelson, Managing Director -- Physical Facilities Planning Department

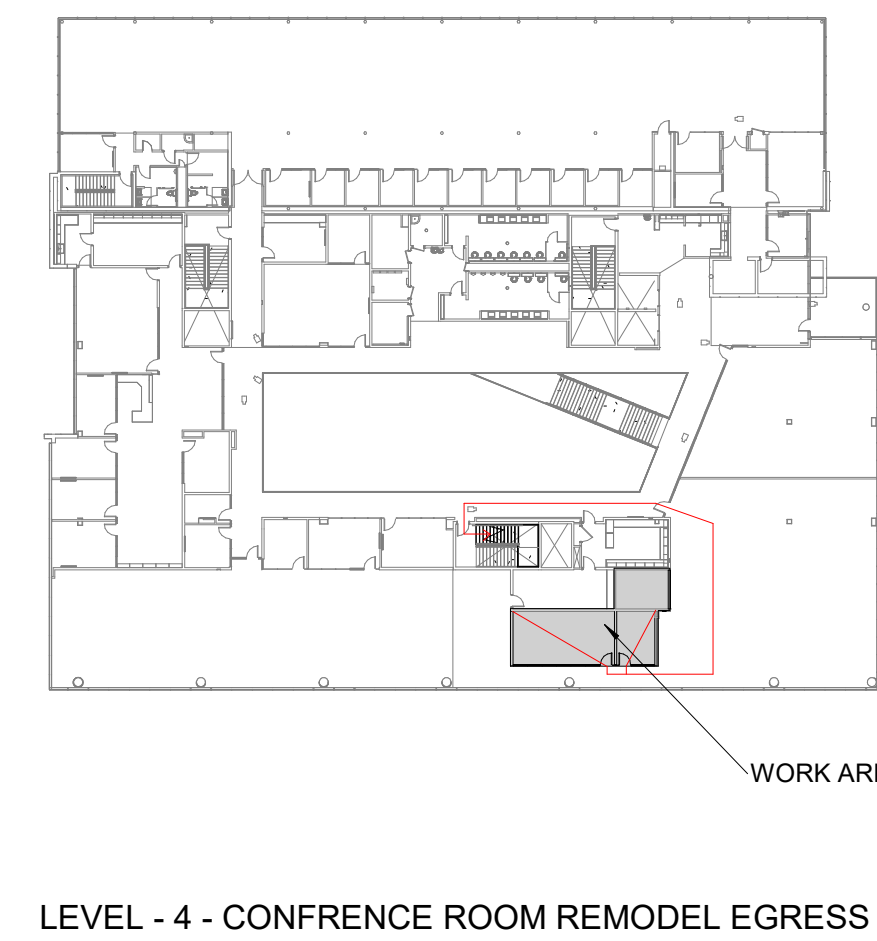
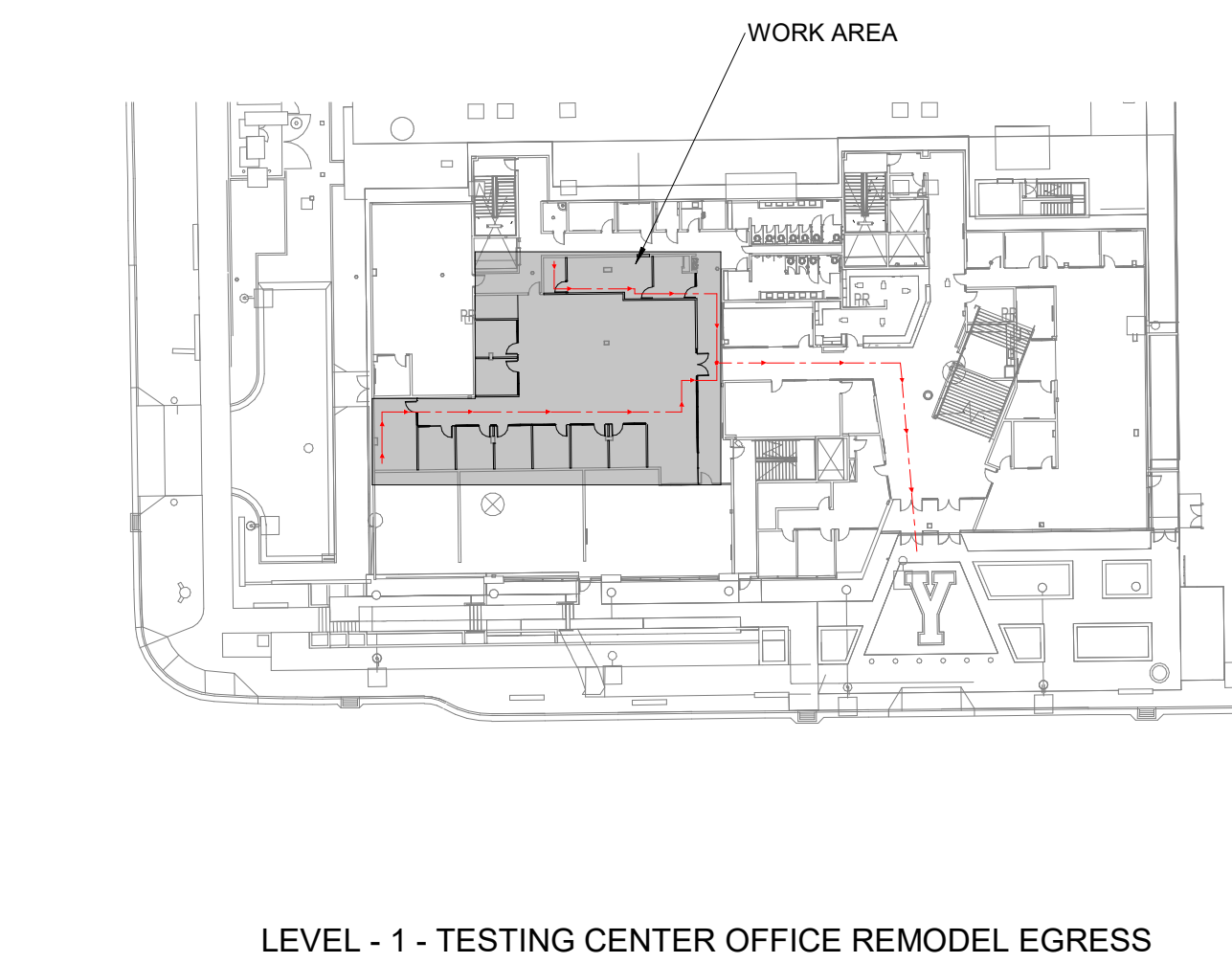
SYMBOLS LEGEND

DRAWING TITLE	NEW FLOOR PLAN	2
DRAWING REFERENCE	SCALE: 1/4" = 1'-0"	
DETAIL REFERENCE		
SHEET REFERENCE		
ELEVATION MARKER		
REFERENCE NOTE TAG		
ROOM TITLE	OFFICE	
ROOM NUMBER	100	
ROOM FINISHES	F1 B1 W1	
ROOM TITLE	OFFICE	
ROOM NUMBER	100	
CEILING HT. & FINISH	10'-0" C1	
ELEVATION REFERENCE		
SHEET REFERENCE		
NORTH SYMBOL		
BRAKE LINE		
SECTION REFERENCE		
SHEET REFERENCE		

DRAWING INDEX

M1864 - LEVEL 1	M3482 - LEVEL 4
A0.0 - COVER SHEET/ EGRESS PLAN	A0.0 - COVER SHEET/ EGRESS PLAN
A1.0 - DEMOLITION FLOOR PLANS	A1.0 - DEMOLITION AND NEW FLOOR PLANS
A1.1 - NEW FLOOR PLANS	A2.0 - DEMOLITION AND NEW CEILING PLAN
A2.0 - DEMOLITION AND NEW CEILING PLAN	A3.0 - ELEVATIONS
A3.0 - ELEVATIONS	A4.0 - DOOR SCHEDULE, STORE FRONT DETAILS
A4.0 - DOOR SCHEDULE	A5.0 - CEILING DETAILS
A4.1 - STORE FRONT DETAILS	
A4.2 - CEILING DETAILS	
M0 - MECHANICAL NOTES & SCHEDULES	M0 - MECHANICAL NOTES & SCHEDULES
M1 - MECHANICAL PLANS	M1 - MECHANICAL PLANS
M2 - MECHANICAL PIPING PLAN	M2 - MECHANICAL DETAILS
M3 - MECHANICAL REFLECTED CEILING PLAN	E1.1 - DEMOLITION AND NEW POWER PLAN
M3 - MECHANICAL DETAILS	E2.1 - DEMOLITION AND NEW LIGHTING PLAN
E1.0 - DEMOLITION AND NEW ELECTRICAL PLAN	E5.0 - ELECTRICAL DETAILS, NOTES, LEGENDS
E2.0 - DEMOLITION AND NEW LIGHTING PLAN	E5.1 - ELECTRICAL DETAILS
E5.0 - ELECTRICAL DETAILS, NOTES, LEGENDS	F1 - EXISTING FURNITURE PLAN
E5.1 - ELECTRICAL DETAILS	F2 - NEW FURNITURE PLAN
E5.2 - ELECTRICAL SCHEDULES AND DETAILS	OIT - OIT PLAN
F1 - EXISTING FURNITURE PLAN	
F2 - NEW FURNITURE PLAN	
OIT - OIT PLAN	

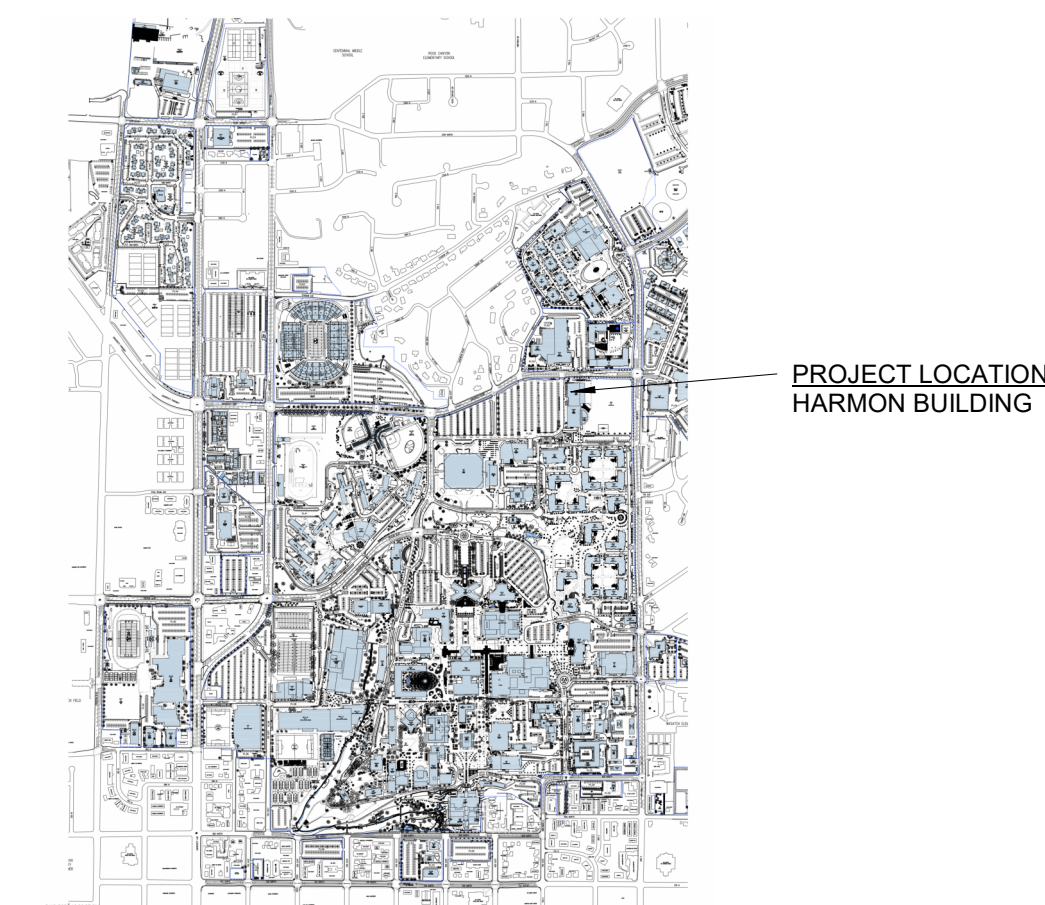
EGRESS PLAN



NIC

Not-In-Contract (NIC) Coordination List	Furnished by BYU	Installed by WU (WU) Vendor	Installed by General Contractor	Furnished by General Contractor	Notes
All Change Fees	x				
All Permitting Costs (Use established B.Y.U. permitting contracts)	x				
As-Built, Operational, Permit, Grading, Permit, Building Permit, Sign/Permit, Engineering Permit, Connections, and Impact Fees	x				
Event and Seismic Closure Permit, Hazard Mitigation, etc.	x				
Permits, Deliverables, and Material Supply	x				
Relocation and Reassembly Materials Management	x				
Testing and Special Inspection Fees	x				
Testing and Special Inspection Scheduling	x				
Site Work					
Disruptors and Recycle Bins	x	x			
General					
Signage - Interior and Exterior	x	x	x	x	
Sign Hardware	x	x	x	x	
Removal of Old Columns and Knaping	x	x	x	x	
Post-Installation Cleanup and Organization	x	x	x	x	
Cost Final Displays and Digital Signage with mounting hardware (check owner and rough electrical in contract)	x	x			
Building Directory (owner, edit, and rough electrical in contract)	x	x			
All or systems (owner and rough electrical in contract)	x	x			
All Core Pathways, Termination Boxes, Cabling, Terminations to Wall Plates and Patch Panels, Warranty	x	x	x	x	
All Core Work	x	x	x	x	
Cable Tray Systems (complete, Terminations, Wall Bends, Cable Hangers, Wall Shells, Unconstrained Bays (1) per cable tray government)	x	x	x	x	
Interiors					
Systems Furniture in Offices, etc.	x	x			
Movable Furniture and Seating	x	x			
Control and Control Room, OIT - Hardware	x	x			
Mechanical Controls Hardware (both system and terminal units) by Manufacturer or Johnson Controls	x	x	x	x	
Mechanical Controls Hardware	x	x	x	x	
Mechanical Controls Engineering Software - both system and terminal units by Manufacturer or Johnson Controls	x	x	x	x	
Moving Existing Equipment	x				
Project Specific					

PROJECT LOCATION PLAN



GENERAL NOTES

- GENERAL CONTRACTOR SHALL TAKE NECESSARY ACTIONS TO PROTECT EXISTING WALLS, DOORS, WINDOWS, FLOORS, SIGNAGE, BELLS, ALARMS, FIRE EXTINGUISHER CABINETS, DRINKING FOUNTAINS, WALL-MOUNTED HEATERS, AND ANY OTHER PERMANENT COMPONENTS OF THE EXISTING BUILDING TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE TO FIX, PATCH, REPAIR AND/OR REPLACE ANY & ALL EXISTING ITEMS WHICH ARE DAMAGED DURING CONSTRUCTION
- GENERAL CONTRACTOR SHALL TAKE NECESSARY ACTIONS TO PROTECT ALL EXISTING FIRE SPRINKLER PIPING! DO NOT PLACE OR POSITION ANYTHING OF ANY KIND OR ANYONE ON, AGAINST OR HANGING FROM EXISTING PIPING!
- IMMEDIATELY FOLLOWING DEMOLITION OF EXISTING WALLS, FLOORS & CEILINGS, CONTRACTOR SHALL EVALUATE EXISTING CONDITIONS TO IDENTIFY ANY AND ALL CONFLICTS W/ NEW LAYOUTS/PLANS. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF CONFLICTS ARE DISCOVERED
- CONTRACTOR SHALL BE AWARE THAT OWNER WILL OCCUPY PORTIONS OF BUILDING DURING CONSTRUCTION
- CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AS NECESSARY DURING CONSTRUCTION



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FAX: (801) 422-0566

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CLIENT APPROVAL DATE

REVISIONS

CODE COMPLIANCE

THIS PROJECT SHALL BE COMPLETED ACCORDING TO THE EDITION OF THE FOLLOWING STANDARDS AND AMENDMENTS AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION:

- 2021 IBC (International Building Code)
- 2021 IEBC (International Existing Building Code)
- 2021 IFCC (International Fire Code)
- 2020 NEC (National Electrical Code)
- 2021 IECC (International Energy Conservation Code)
- 2021 IFGC (International Fuel Gas Code)
- NEMA (National Electrical Manufacturer's Assoc.)
- 2021 IMC (International Mechanical Code)
- 2021 IPC (International Plumbing Code)
- 1997 Uniform Code for Building Conservation
- NFPA (National Fire Protection Association)
- UL (Underwriters Laboratories, Inc.)
- State & Local Building Authority & Codes

OCCUPANCY CLASS.: IBC Chapter 3
Exist. Class: IIB
New Class: IIB

EXIST. USE: Level 1 Testing Center
Level 4 Open office

NEW USE: Level 1 Office space
Level 4 Office Space/ Conference room

CONSTRUCTION TYPE: Section 601
Exist. Type: I-B
New Type: I-B

IEBC ALTERATION LEVEL: 2

OCCUPANT LOAD (Work Area):
(1) occupant per 150 sqft. Exist. Load: 32
(1) occupant per 150 sqft. New Load: 32

BUILDING LEVEL 1 SQFT: 21,149 sqft.
BUILDING LEVEL 4 SQFT: 33,422 sqft.

WORK AREA SQFT: Level 1 4900 sqft.
Level 4 780 sqft.

FIRE PROTECTION: Section 903
Fully sprinkled

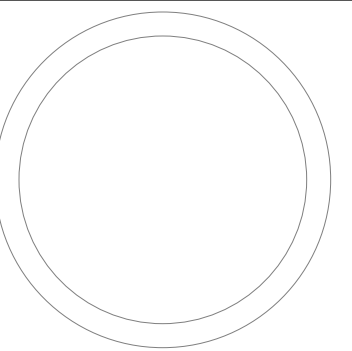
EGRESS: Changed

REQUIRED PLBG. FIXTURES: Unchanged

PROJECT DIRECTORY

- BYU Planning PM: Shelby King
801 319-1983
shelby_king@byu.edu
- BYU Building Code Analyst: Keith Martin
801 422-5571
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- Please CC project correspondence to the following:
Bart Smith bart_smith@byu.edu
Bob Coleman robert_coleman@byu.edu

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COVER SHEET

WORK ORDER & SHEET NO.

N1864
A0.0

CONSTRUCTION DOCS. - CONTRACT.



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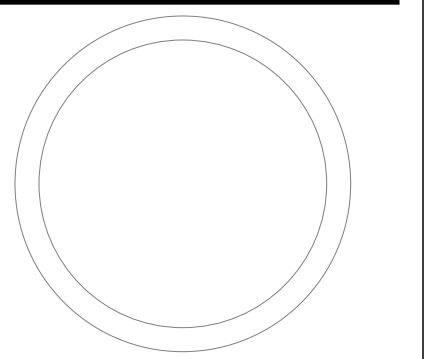
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REVISIONS

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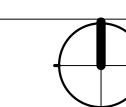
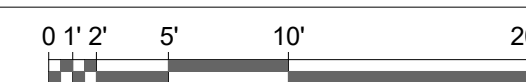
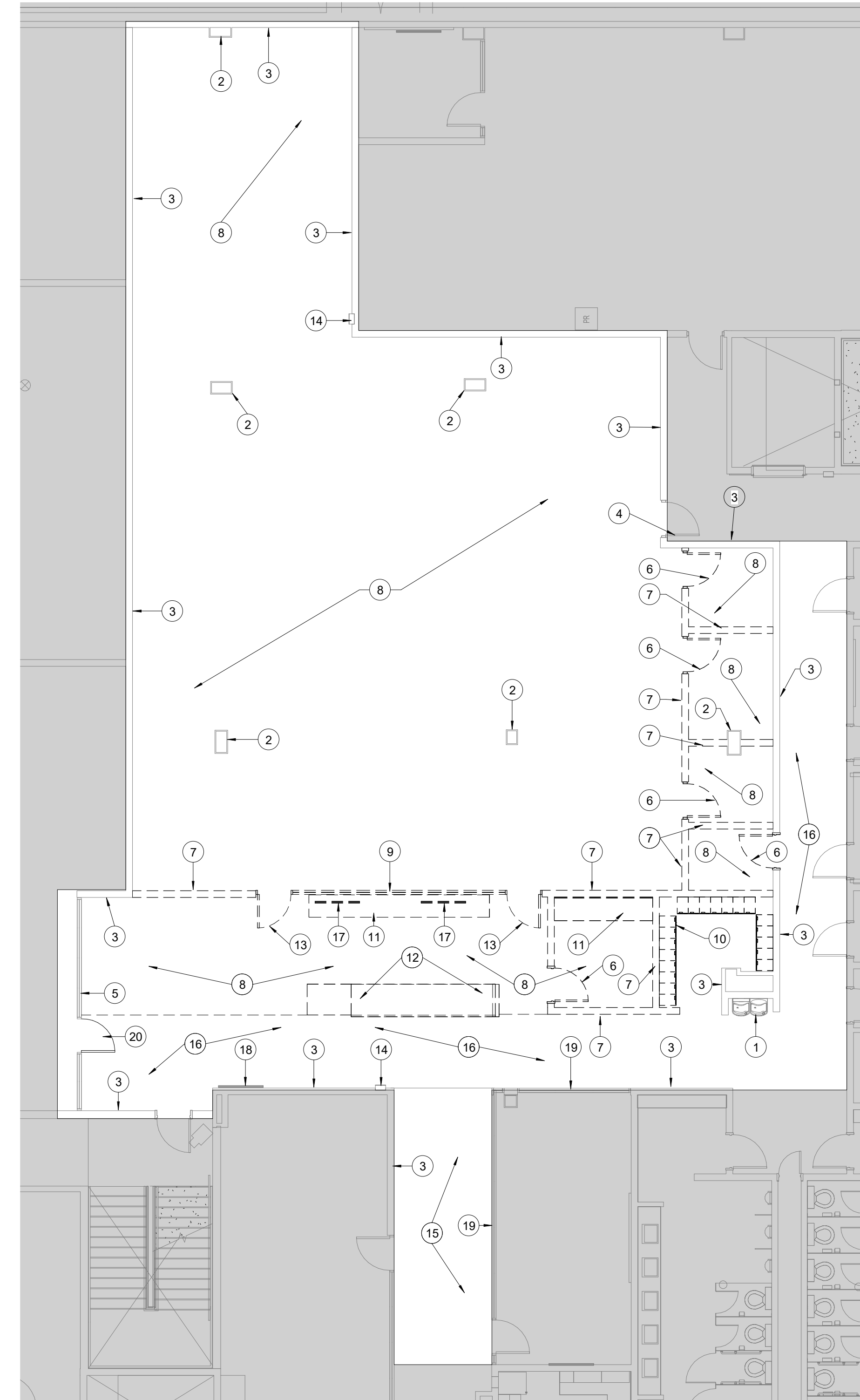
DEMOLITION FLOOR PLAN

WORK ORDER & SHEET NO.

N1864
A1.0

REFERENCE NOTES

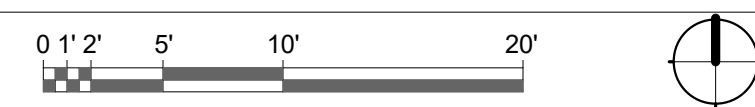
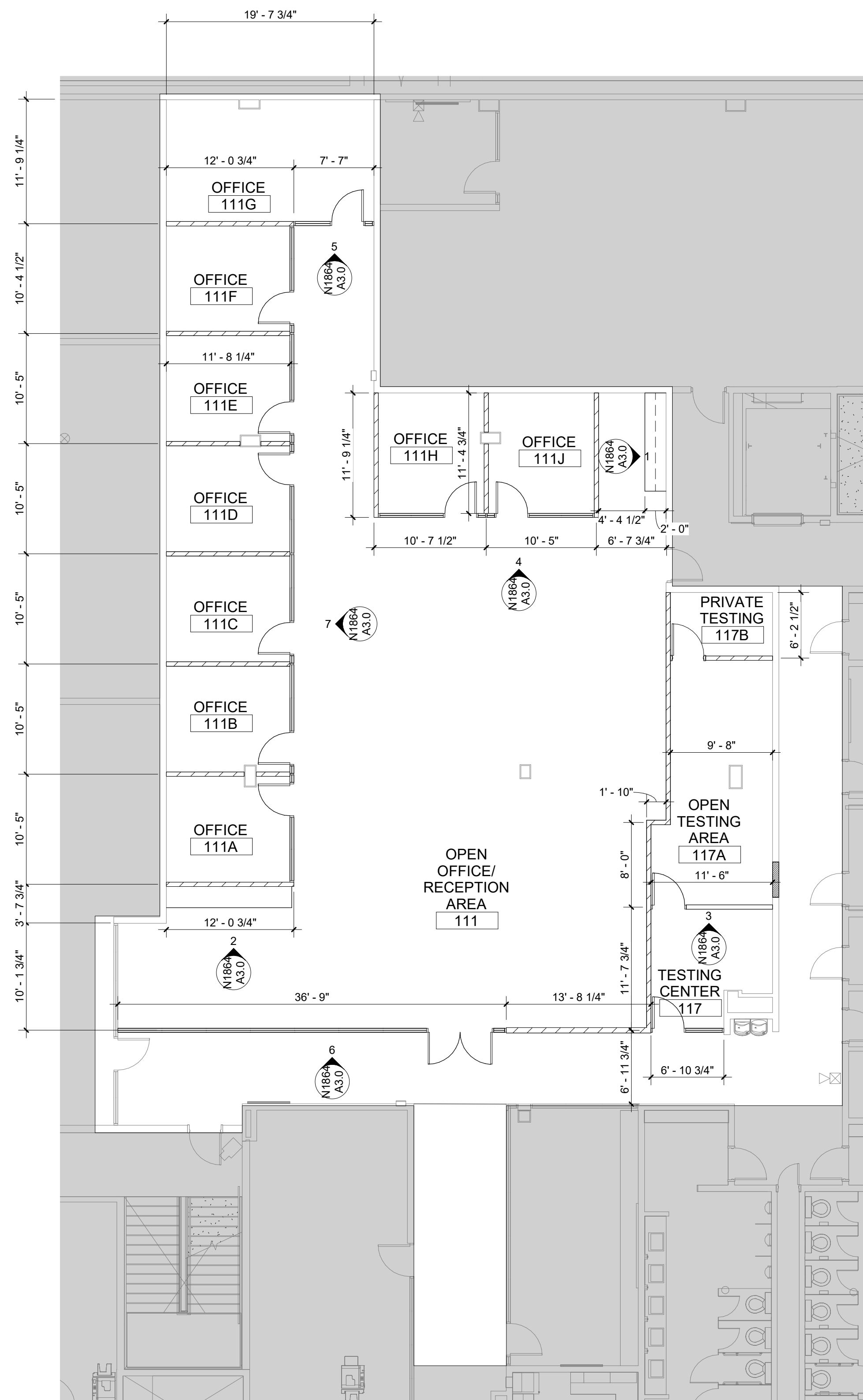
- 1 EXISTING DRINKING FOUNTAIN TO REMAIN, PROTECT AS REQUIRED
- 2 EXISTING COLUMNS TO REMAIN, PROTECT AS REQUIRED
- 3 EXISTING WALLS TO REMAIN, PROTECT AS REQUIRED
- 4 EXISTING DOOR TO REMAIN, PROTECT AS REQUIRED
- 5 EXISTING GLASS STOREFRONT SYSTEM TO BE MODIFIED, PROTECT AS REQUIRED, COORDINATE WITH CONSULTANT
- 6 REMOVE AND DISPOSE OF EXISTING HARD WD. DOOR, AND ALUMINUM FRAME
- 7 REMOVE AND DISPOSE OF EXISTING 3 5/8 METAL STUD GYP. WALL, COORDINATE W/ ELECTRICAL AND OIT FOR POWER AND NETWORKING TO BE REMOVED
- 8 REMOVE AND DISPOSE OF EXISTING CARPET FLOORING, COORDINATE W/ OWNER
- 9 REMOVE AND DISPOSE OF EXISTING ALUM. STORE FRONT WINDOWS, AND 3 5/8" METAL STUD GYP. WALL ABOVE AND BELOW STORE FRONT GLASS
- 10 REMOVE AND COORDINATE W/ OWNER ON SURPLUS OF EXISTING LOCKERS
- 11 REMOVE AND DISPOSE OF EXISTING MILLWORK AND COUNTERTOP
- 12 REMOVE AND DISPOSE OF EXISTING RECEPTION DESK AND MILLWORK, COORDINATE WITH OIT AND ELECTRICAL TO REMOVE POWER AND NETWORKING
- 13 REMOVE AND DISPOSE OF EXISTING ALUMINUM STORE FRONT GLASS SYSTEM
- 14 EXISTING FIRE EXTINGUISHER TO REMAIN, PROTECT AS REQUIRED
- 15 EXISTING TERRAZZO FLOORING TO BE PROTECTED AS REQUIRED
- 16 EXISTING CARPET TO REMAIN, PROTECT AS REQUIRED
- 17 EXISTING FLAT PANEL SCREENS TO BE REMOVED, SEE OIT PLANS, ELECTRICAL PLANS
- 18 EXISTING FLAT PANEL SCREENS TO REMAIN, PROTECT AS REQUIRED
- 19 EXISTING GLASS STORE FRONT TO REMAIN, PROTECT AS REQUIRED
- 20 MODIFY EXISTING STORE FRONT SYSTEM TO CHANGE DOOR SWING, REUSE EXISTING SYSTEM WHERE POSSIBLE



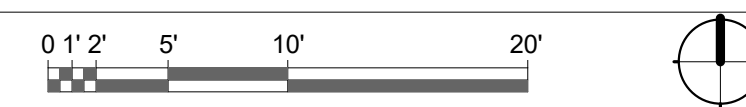
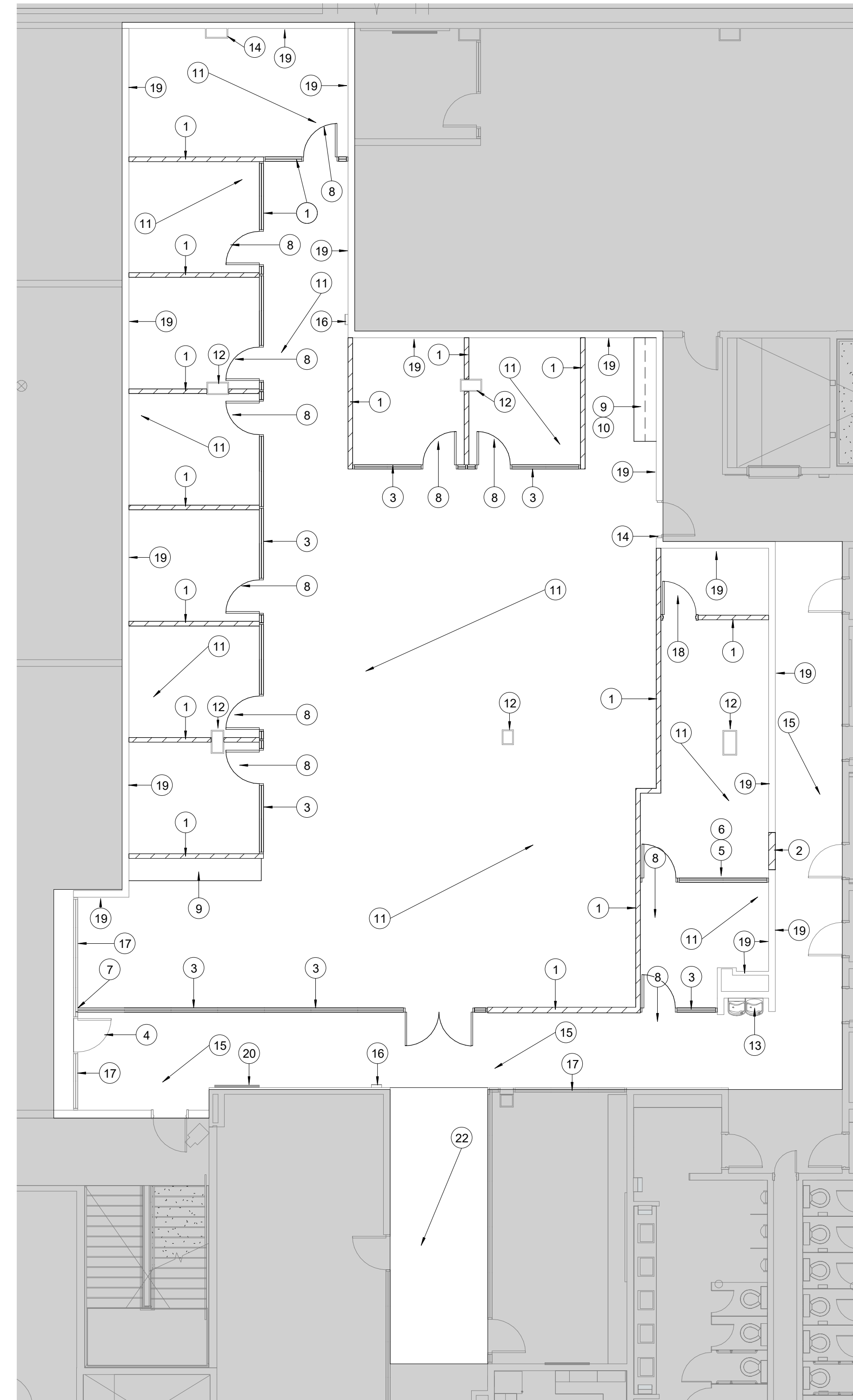
DEMOLITION FLOOR PLAN

SCALE: 1/8" = 1'-0"

1



N1864 NEW FLOOR PLAN DIMENSIONS
SCALE: 1/8" = 1'-0"



NEW FLOOR PLAN NOTES
SCALE: 1/8" = 1'-0"

REFERENCE NOTES

- 1 NEW 3 5/8" METAL STUD WALL W/ 5/8" GYP. BD. EACH SIDE W/ SOUND BATT FILLING, PAINTED BOTH SIDES, TO GO 6" ABOVE CEILING GRID, SEE FINISH SCHEDULE
- 2 FILL EXISTING 3070 DOOR OPENING TO MATCH EXISTING WALL, W/ SOUND BATT AND GYP. BD. EACH SIDE, PATCH AND PAINT ENTIRETY OF EXISTING WALL TO MATCH
- 3 PROVIDE AND INSTALL STORE FRONT GLASS SYSTEM - KAWNEER TRIFAB VG 450 4'-1/2" DEEP WITH A 1-3/4" SIGHT LINE - CENTER, CLEAR ANODIZED FINISH, SEE ELEVATIONS
- 4 MODIFY EXISTING STORE FRONT SYSTEM TO CHANGE DOOR SWING, REUSE EXISTING SYSTEM WHERE POSSIBLE
- 5 NEW 3 5/8" METAL STUD PONY WALL W/ 5/8" GYP. BD. EACH SIDE W/ SOUND BATT FILLING, PAINTED BOTH SIDES, SEE FINISH SCHEDULE/ELEVATIONS
- 6 PROVIDE AND INSTALL STORE FRONT GLASS SYSTEM ON TOP OF PONY WALL - KAWNEER TRIFAB VG 450 4'-1/2" DEEP WITH A 1-3/4" SIGHT LINE - CENTER, CLEAR ANODIZED FINISH, SEE ELEVATIONS
- 7 NEW ALUM. STORE FRONT GLASS SYSTEM TO BUTT DIRECTLY INTO EXISTING STORE FRONT SYSTEM, SEE STORE FRONT DETAIL
- 8 PROVIDE AND INSTALL NEW 3070 NATURAL WALNUT SLAB DOOR TO MATCH EXISTING BUILDING DOORS IN FIT AND FINISH, SEE FINISH SCHEDULE
- 9 PROVIDE AND INSTALL BASE CABINET MILLWORK PER OWNER SPECS, W/ SOLID SURFACE COUNTERTOP & BACK SPLASH, SEE ELEVATION FOR DIMENSIONS, SEE FINISH SCHEDULE
- 10 PROVIDE AND INSTALL UPPER CABINET MILLWORK PER OWNER SPECS, FINISH TO BE WOOD VENEER NATURAL WALNUT, SEE ELEVATION FOR DIMENSIONS, SEE FINISH SCHEDULE
- 11 NEW CARPET TO BE INSTALLED BY OWNER THROUGHOUT, COORDINATE WITH OWNER FOR INSTALLATION TIME
- 12 EXISTING COLUMNS TO REMAIN, PROTECT AS REQUIRED
- 13 EXISTING DRINKING FOUNTAIN TO REMAIN, PROTECT AS REQUIRED
- 14 EXISTING DOOR TO REMAIN, PROTECT AS REQUIRED
- 15 EXISTING CARPET TO REMAIN, PROTECT AS REQUIRED
- 16 EXISTING FIRE EXTINGUISHER TO REMAIN, PROTECT AS REQUIRED
- 17 EXISTING GLASS STORE FRONT TO REMAIN, PROTECT AS REQUIRED
- 18 PROVIDE AND INSTALL NEW 3070 NATURAL WALNUT SLAB DOOR W/ HALF-LITE KIT, FINISH TO MATCH EXISTING BUILDING DOORS IN FIT AND FINISH, SEE FINISH SCHEDULE
- 19 PATCH AND PAINT THE ENTIRETY OF THE EXISTING WALL, SEE FINISH SCHEDULE
- 20 EXISTING FLAT PANEL SCREENS TO REMAIN, PROTECT AS REQUIRED
- 22 EXISTING TERRAZZO FLOORING TO BE PROTECTED AS REQUIRED

FINISH SCHEDULE:

WALL PAINT

MAIN COLOR: GREEK VILLA SW 67551L
ACCENT COLOR: MAREA BAJA SW 9185

DOOR

NATURAL WALNUT

MILLWORK

NATURAL WALNUT

SOLID SURFACE

Formica Classics - Luna Concrete 781

STORE FRONT SYSTEM

KAWNEER TRIFAB VG 450 4'-1/2" DEEP WITH A 1-3/4" SIGHT LINE - CENTER, CLEAR ANODIZED FINISH

GRID/TILE SYSTEM

TILE: USG FROST 490
GRID: BYU SPEC - WHITE



FACILITIES PLANNING

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CODE CHECK:

STRUCTURAL:

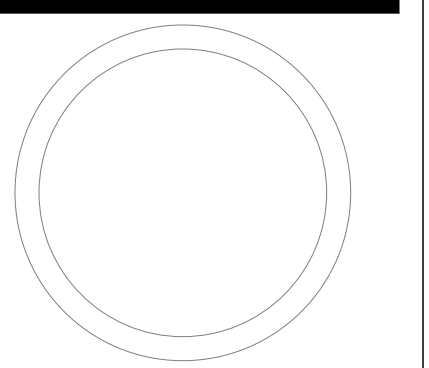
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REVISIONS

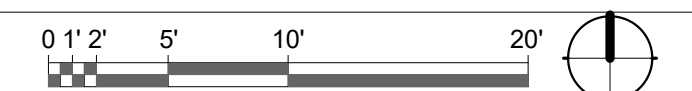
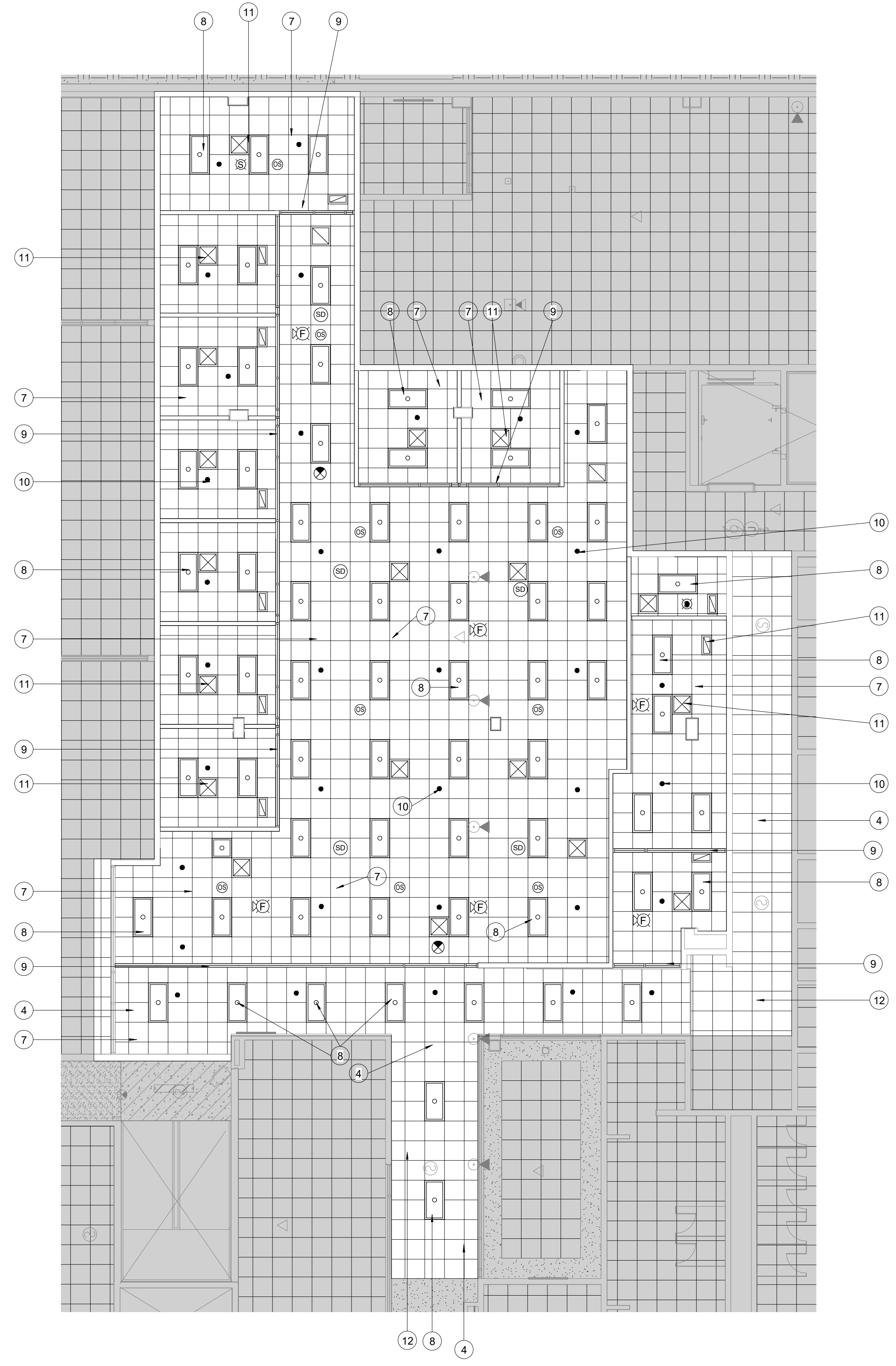
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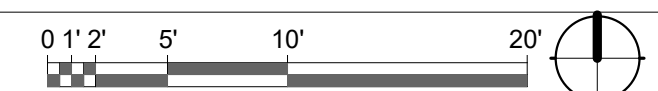
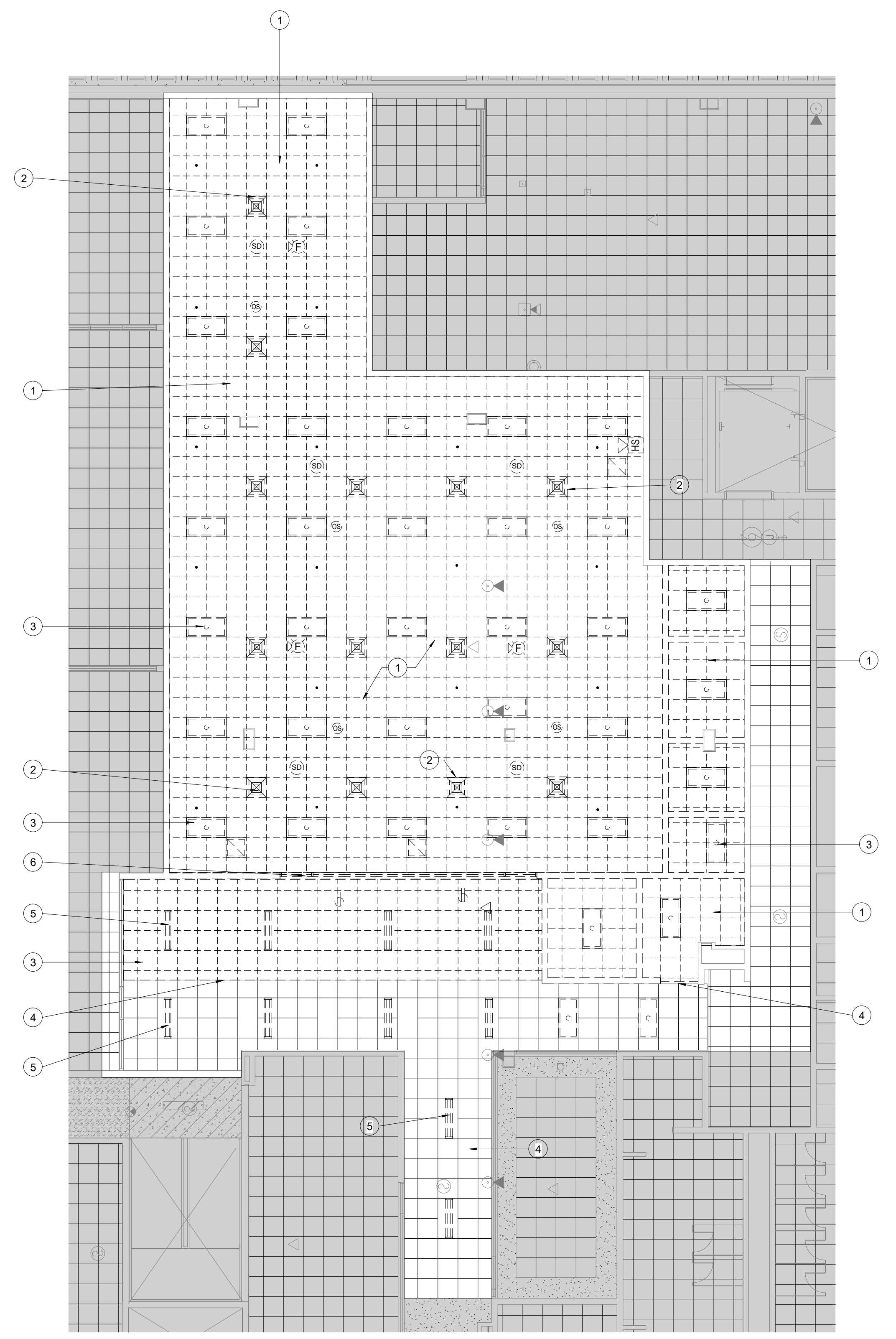
NEW FLOOR PLAN

WORK ORDER & SHEET NO.

N1864
A1.1



NEW CEILING PLAN
SCALE: 1/8" = 1'-0" **2**



DEMOLITION CEILING PLAN
SCALE: 1/8" = 1'-0" **1**

REFERENCE NOTES

- 1 REMOVE AND KEEP A SMALL PORTION OF TILES TO REPLACE DAMAGED TILES IN HALLS WHERE NOTED. DISPOSE OF THE REST OF 2X2 GRID CEILING AND CEILING TILES
- 2 EXISTING SUPPLY AND RETURN SYSTEM TO BE MODIFIED FOR NEW LAYOUT, SEE MECHANICAL PLANS
- 3 REMOVE AND DISPOSE 2X4 LIGHTS, SEE ELECTRICAL PLANS
- 4 EXISTING 2X2 GRID CEILING AND CEILING TILES TO REMAIN AND BUTT TO NEW WALL HEADER, REPLACE DAMAGED TILES WITH ONES FROM DEMOLITION PORTION OF PROJECT
- 5 REMOVE AND DISPOSE OF EXISTING PENDENT LIGHTS, SEE ELECTRICAL PLANS
- 6 REMOVE AND DISPOSE OF EXISTING GYP. HEADER ABOVE STORE FRONT DOOR
- 7 PROVIDE AND INSTALL 2X2 CEILING GRID AND TILES TYPICAL THROUGHOUT PROJECT, SEE FINISH SCHEDULE
- 8 PROVIDE AND INSTALL NEW 2X4 LED FLAT PANEL LIGHTS AND ASSOCIATED MOTION SENSORS TO BE INSTALLED TYPICAL THROUGHOUT PROJECT, SEE ELECTRICAL PLANS
- 9 NEW 3 5/8" METAL STUD HEADER W/ 5/8" GYP. BD. EACH SIDE W/ SOUND BATT FILLING. PAINTED BOTH SIDES. TO GO 6" ABOVE CEILING GRID. SEE FINISH SCHEDULE/ ELEVATIONS
- 10 MODIFY FIRE SPRINKLER SYSTEM PER MECHANICAL PLANS AND TYPICAL THROUGHOUT PROJECT
- 11 PROVIDE AND INSTALL NEW SUPPLY AND RETURN AIR GRILLS PER MECHANICAL PLANS AND TYPICAL THROUGHOUT PROJECT
- 12 EXISTING SUPPLY AND RETURN SYSTEM TO REMAIN, SEE MECHANICAL PLANS

- FINISH SCHEDULE:**
- WALL PAINT**
MAIN COLOR: GREEK VILLA SW 67551L
ACCENT COLOR: MAREA BAJA SW 9185
- DOOR**
NATURAL WALNUT
- MILLWORK**
NATURAL WALNUT
- SOLID SURFACE**
Formica Classics - Luna Concrete 781
- STORE FRONT SYSTEM**
KAWNEER TRIFAB VG 450 4-1/2" DEEP WITH A 1-3/4" SIGHT LINE - CENTER. CLEAR ANODIZED FINISH
- GRID/TILE SYSTEM**
TILE: USG FROST 490
GRID: BYU SPEC - WHITE



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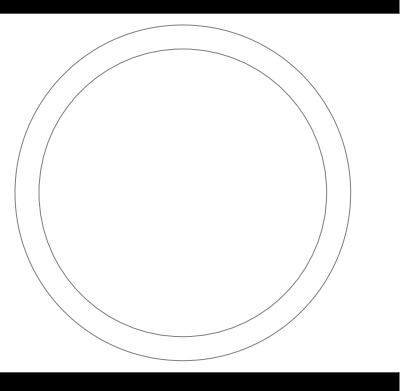
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CODE CHECK: _____
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CLIENT APPROVAL _____ DATE _____

REVISIONS

NO.	DESCRIPTION

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HARMAN CONTINUING EDUCATION BUILDING - LEVEL 1 - 111 & LEVEL 4 - 403



DEMOLITION AND NEW CEILING PLAN

WORK ORDER & SHEET NO.

N1864
A2.0



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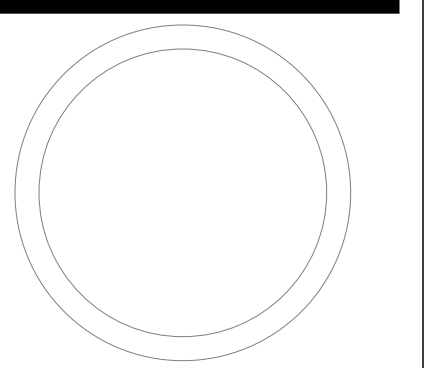
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ELEVATIONS

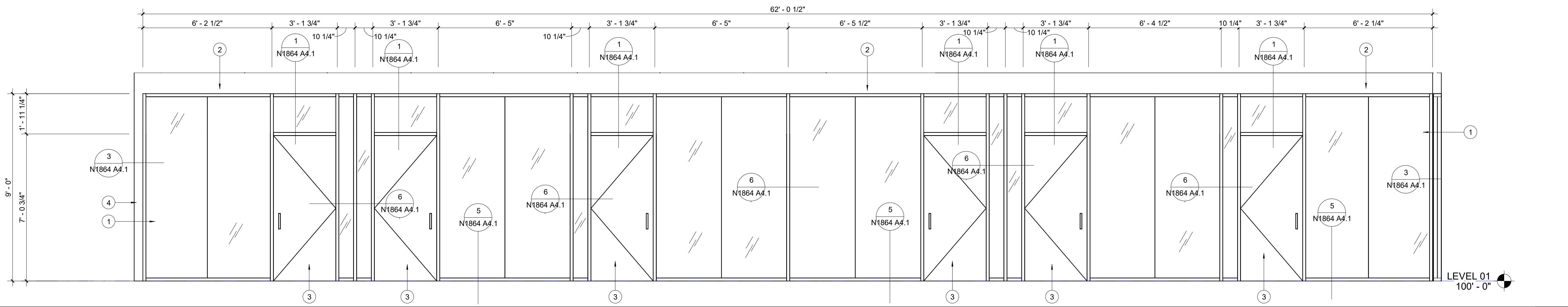
WORK ORDER & SHEET NO.

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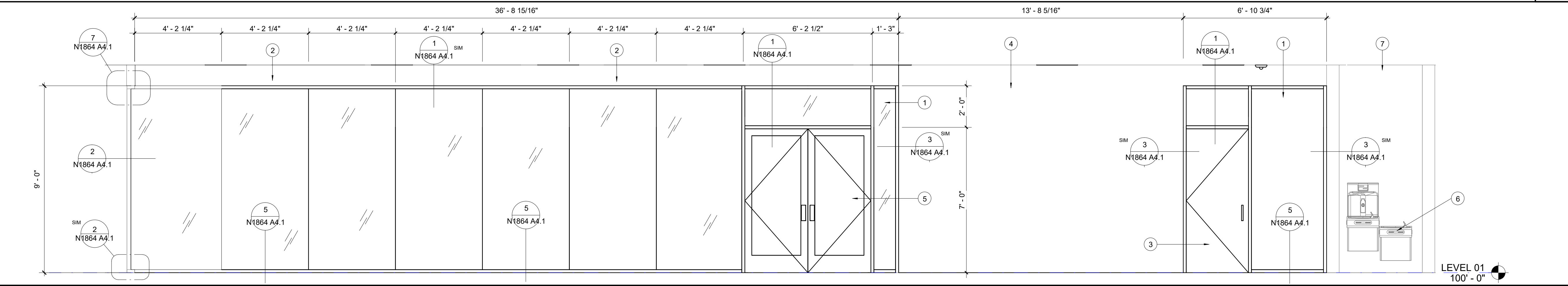
REFERENCE NOTES

- 1 PROVIDE AND INSTALL STORE FRONT GLASS SYSTEM - KAWNEER TRIFAB VG 450 4-1/2" DEEP WITH A 1-3/4" SIGHT LINE - CENTER. CLEAR ANODIZED FINISH. SEE ELEVATIONS
- 2 NEW 3 5/8" METAL STUD HEADER W/ 5/8" GYP. BD. EACH SIDE W/ SOUND BATT FILLING. PAINTED BOTH SIDES. TO GO 6" ABOVE CEILING GRID. SEE FINISH SCHEDULE/ ELEVATIONS
- 3 PROVIDE AND INSTALL NEW 3070 NATURAL WALNUT SLAB DOOR TO MATCH EXISTING BUILDING DOORS IN FIT AND FINISH. SEE FINISH SCHEDULE
- 4 NEW 3 5/8" METAL STUD WALL W/ 5/8" GYP. BD. EACH SIDE W/ SOUND BATT FILLING. PAINTED BOTH SIDES. TO GO 6" ABOVE CEILING GRID. SEE FINISH SCHEDULE
- 5
- 6 EXISTING DRINKING FOUNTAIN TO REMAIN. PROTECT AS REQUIRED
- 7 EXISTING WALLS TO REMAIN. PROTECT AS REQUIRED
- 8 PROVIDE AND INSTALL UPPER CABINET MILLWORK PER OWNER SPECS. FINISH TO BE WOOD VENEER NATURAL WALNUT. SEE ELEVATION FOR DIMENSIONS. SEE FINISH SCHEDULE
- 9 PROVIDE AND INSTALL BASE CABINET MILLWORK PER OWNER SPECS. W/ SOLID SURFACE COUNTERTOP & BACK SPLASH. SEE ELEVATION FOR DIMENSIONS. SEE FINISH SCHEDULE
- 10 OWNER TO PROVIDE PRINTER
- 11 EXISTING DOOR TO REMAIN. PROTECT AS REQUIRED
- 12 PATCH AND PAINT THE ENTIRETY OF THE EXISTING WALL. SEE FINISH SCHEDULE
- 13 OWNER TO PROVIDE AND INSTALL NEW FLAT PANEL DISPLAY. SEE OIT PLANS
- 14 PROVIDE AND INSTALL STORE FRONT GLASS SYSTEM ON TOP OF PONY WALL - KAWNEER TRIFAB VG 450 4-1/2" DEEP WITH A 1-3/4" SIGHT LINE - CENTER. CLEAR ANODIZED FINISH. SEE ELEVATIONS

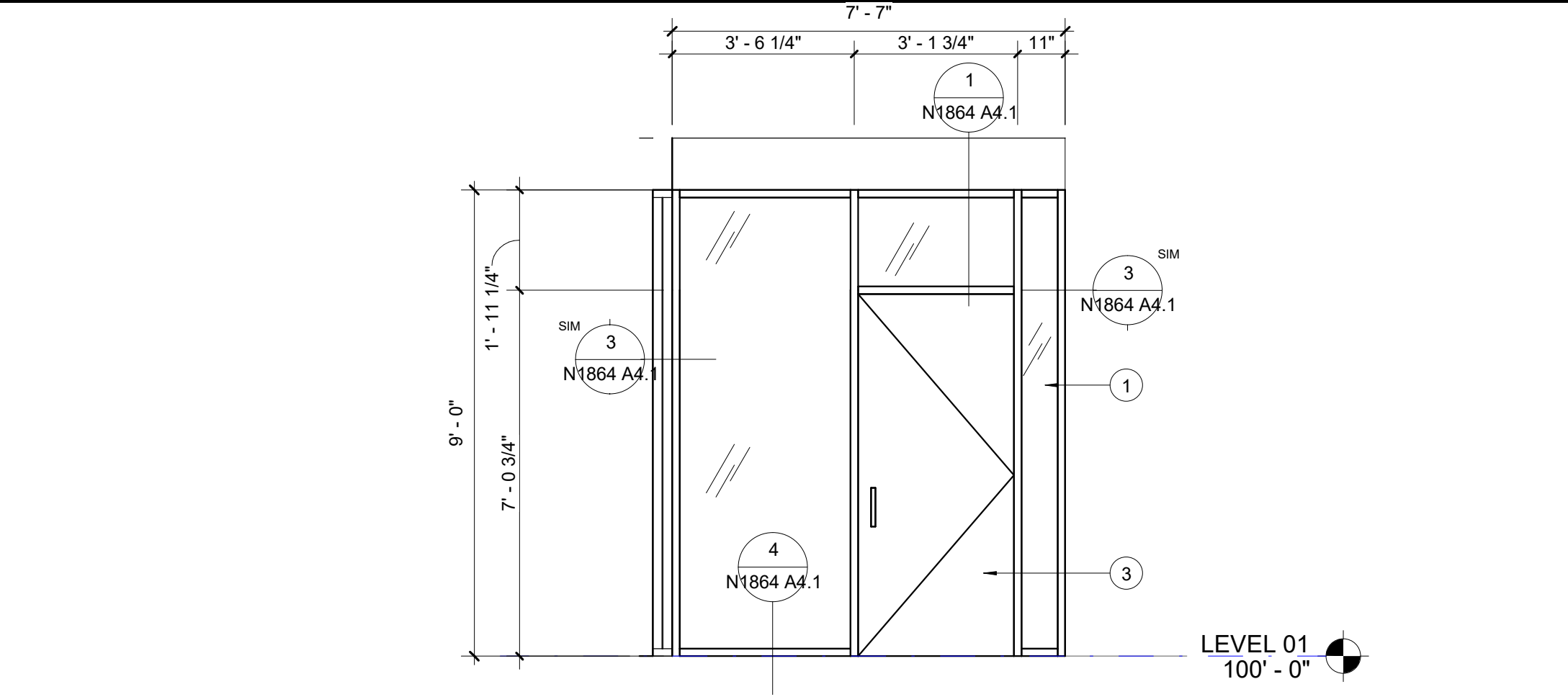
- FINISH SCHEDULE:**
- WALL PAINT**
 MAIN COLOR: GREEK VILLA SW 67551L
 ACCENT COLOR: MAREA BAJA SW 9185
- DOOR**
 NATURAL WALNUT
- MILLWORK**
 NATURAL WALNUT
- SOLID SURFACE**
 Formica Classics - Luna Concrete 781
- STORE FRONT SYSTEM**
 KAWNEER TRIFAB VG 450 4-1/2" DEEP WITH A 1-3/4" SIGHT LINE - CENTER. CLEAR ANODIZED FINISH
- GRID/TILE SYSTEM**
 TILE: USG FROST 490
 GRID: BYU SPEC - WHITE



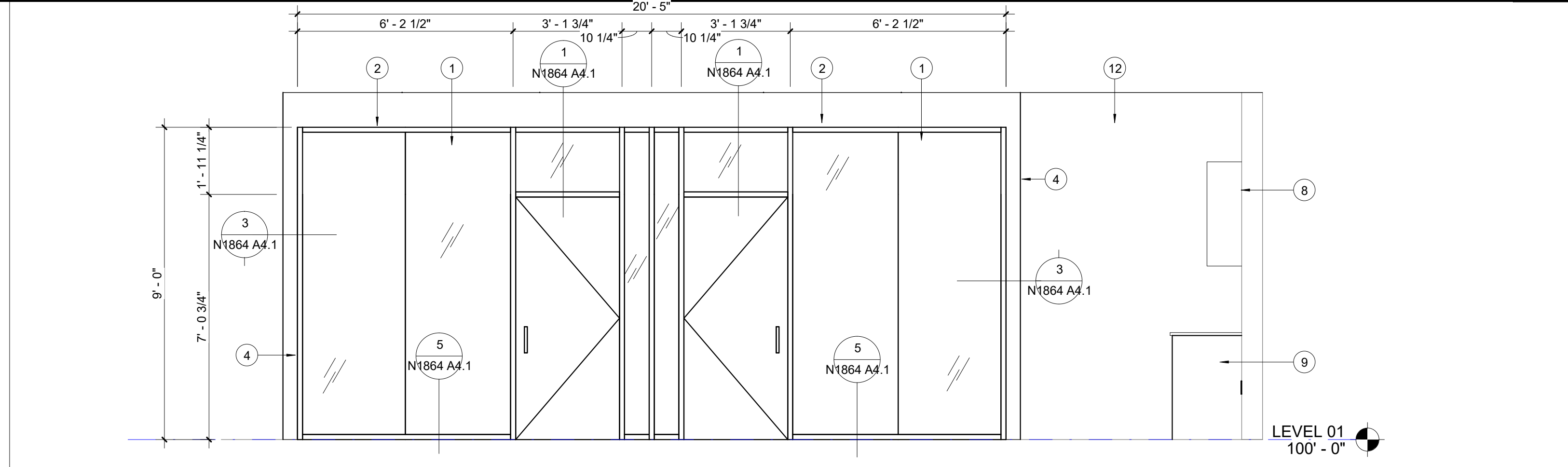
WEST ELEVATION VIEW 7
 SCALE: 3/8" = 1'-0"



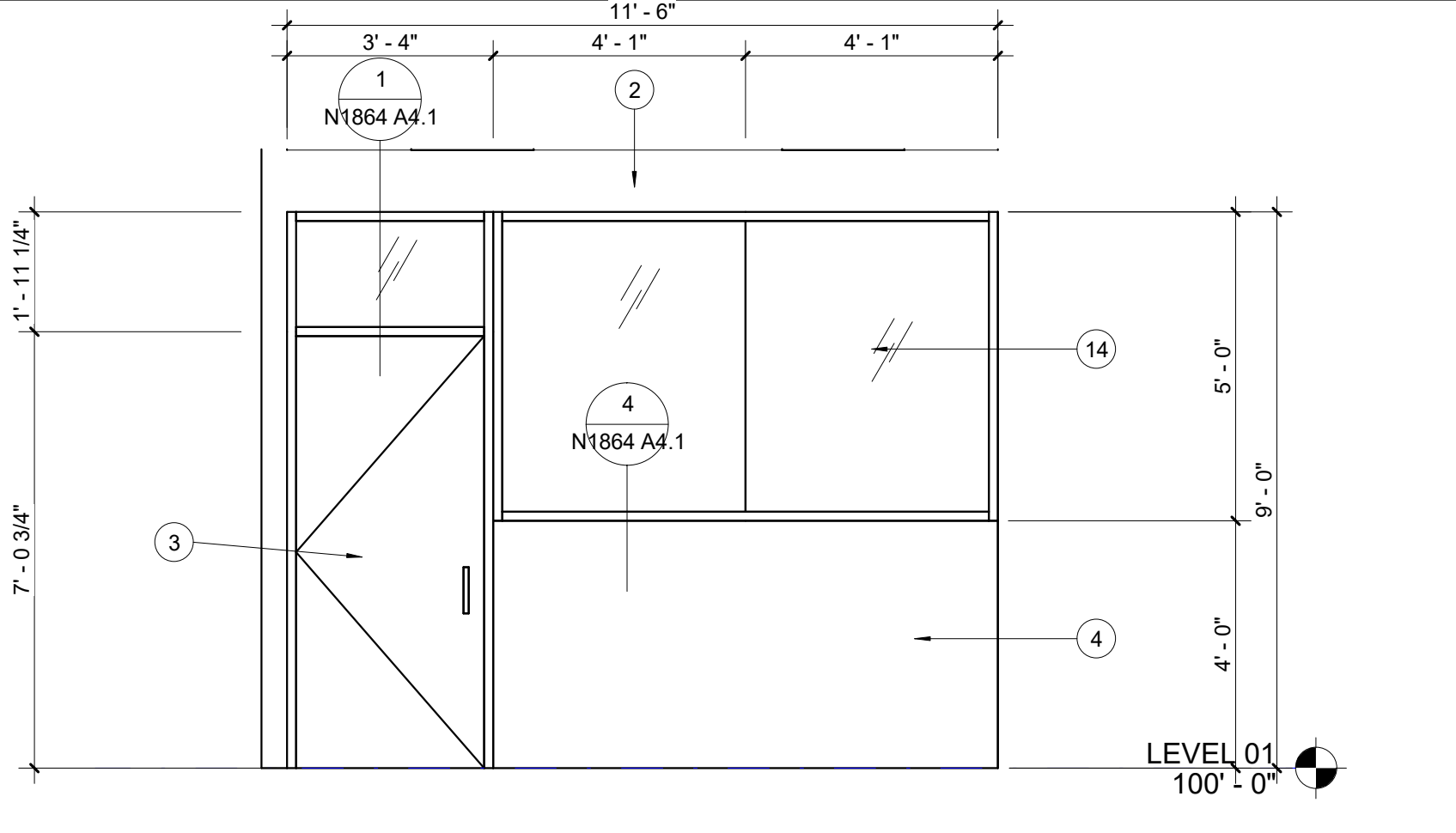
FRONT DOOR ELEVATION 6
 SCALE: 3/8" = 1'-0"



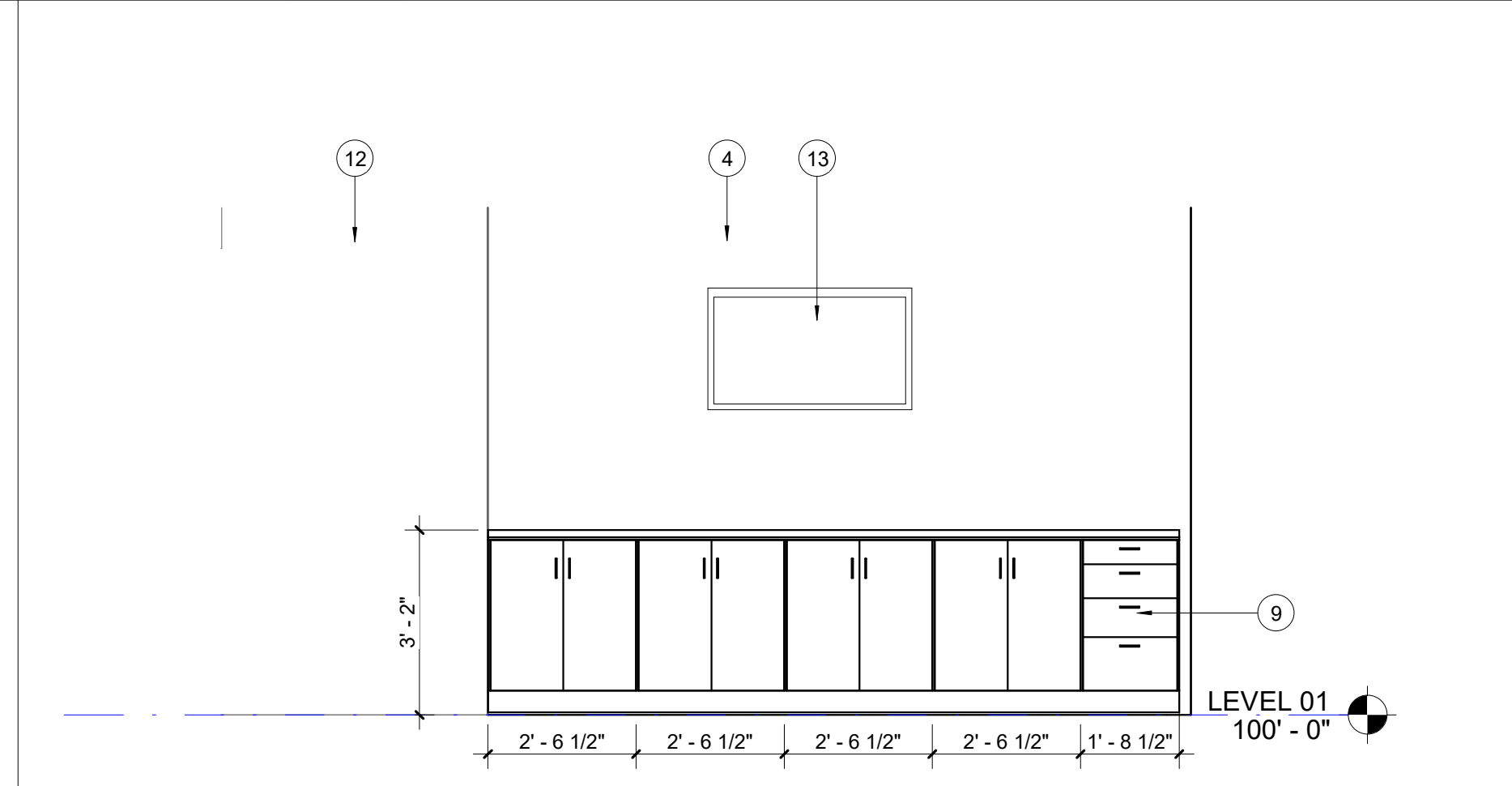
NORTH ROOM ELEVATION VIEW 5
 SCALE: 3/8" = 1'-0"



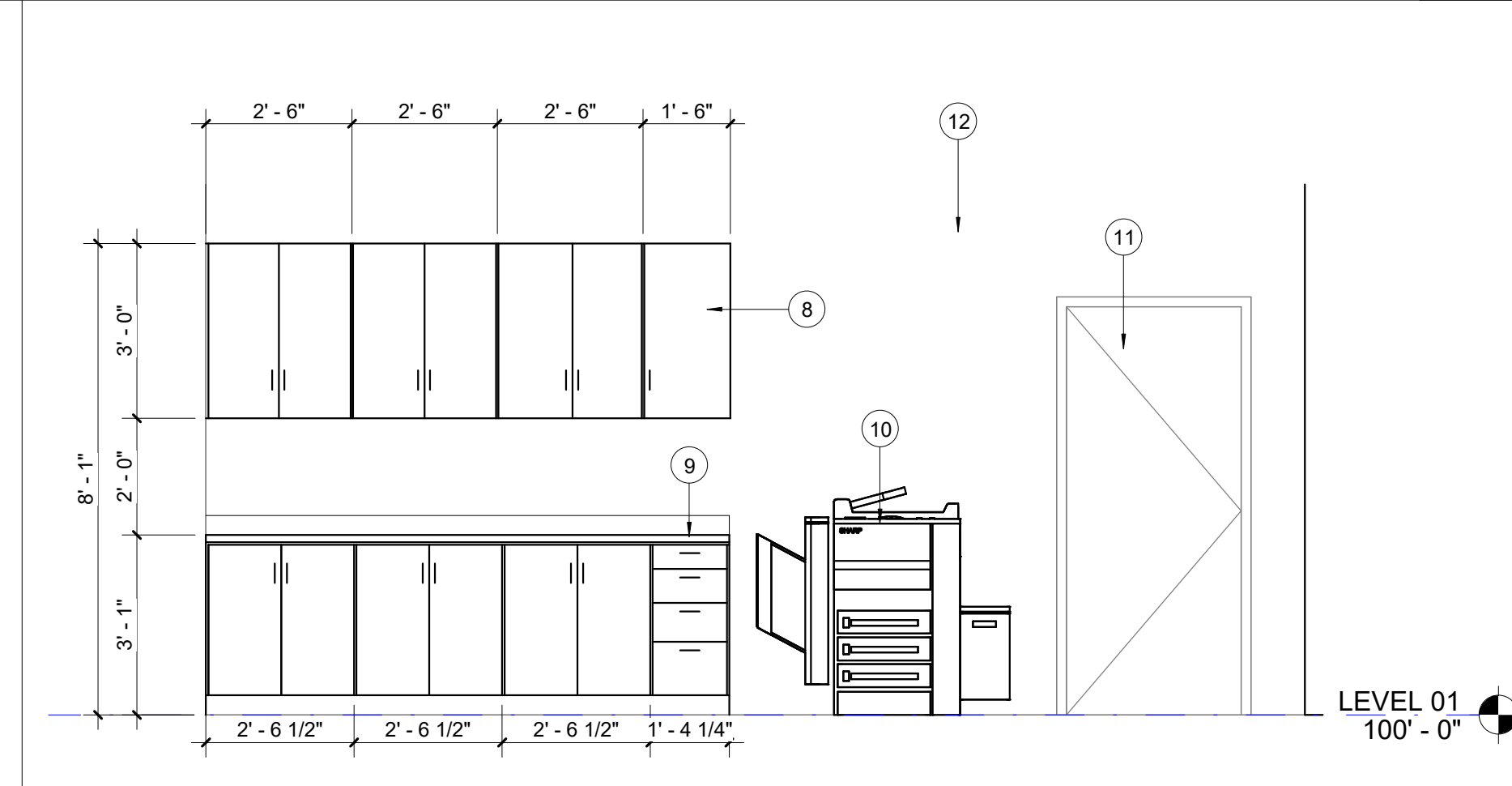
NORTH ROOMS ELEVATION VIEW 4
 SCALE: 3/8" = 1'-0"



TESTING CENTER INTERIOR GLASS 3
 SCALE: 3/8" = 1'-0"



NORTH WALL ELEVATION VIEW 2
 SCALE: 3/8" = 1'-0"



COPY ROOM CASEWORK ELEVATION 1
 SCALE: 3/8" = 1'-0"

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DOOR SCHEDULE

MARK	DR TYPE	FRM TYPE	LOCATION	DOOR SIZE	DOOR MATL	FRAME MATL	HARDWR GROUP	REMARKS
111	D3	-	OPEN OFFICE/RECEPTION 111	DBL 3'-0" x 7'-0" x 1 3/4"	ALUM./GLASS	ALUM.	H1	ALUMINUM STORE FRONT DOOR SYSTEM
111A	D1	-	OFFICE 111A	3'-0" x 7'-0" x 1 3/4"	WOOD	ALUM.	H2	
111B	D1	-	OFFICE 111B	3'-0" x 7'-0" x 1 3/4"	WOOD	ALUM.	H2	
111C	D1	-	OFFICE 111C	3'-0" x 7'-0" x 1 3/4"	WOOD	ALUM.	H2	
111D	D1	-	OFFICE 111D	3'-0" x 7'-0" x 1 3/4"	WOOD	ALUM.	H2	
111E	D1	-	OFFICE 111E	3'-0" x 7'-0" x 1 3/4"	WOOD	ALUM.	H2	
111F	D1	-	OFFICE 111F	3'-0" x 7'-0" x 1 3/4"	WOOD	ALUM.	H2	
111G	D1	-	OFFICE 111G	3'-0" x 7'-0" x 1 3/4"	WOOD	ALUM.	H2	
111H	D1	-	OFFICE 111H	3'-0" x 7'-0" x 1 3/4"	WOOD	ALUM.	H2	
111J	D1	-	OFFICE 111J	3'-0" x 7'-0" x 1 3/4"	WOOD	ALUM.	H2	
117	D1	-	TESTING CENTER RECEPTION 117	3'-0" x 7'-0" x 1 3/4"	WOOD	ALUM.	H2	
117A	D1	-	OPEN TESTING 117A	3'-0" x 7'-0" x 1 3/4"	WOOD	ALUM.	H2	
117B	D2	F1	PRIVATE TESTING 117B	3'-0" x 7'-0" x 1 3/4"	WOOD/GLASS	ALUM.	H2	WOOD FRAMED HALF LITE KIT INSTALLED

HARDWARE GROUPS (LOCKSET CYLINDERS BY OWNER - NIC)

GROUP H1: STORE FRONT DOOR			
(3) EA.	FULL MORTISE - 5 KNUCKLE HINGE	MCKINNEY	TA2714 4 1/2" x 4 1/2" 26D
(1) EA.	LEVER PULL	SCHLAGE	ND92LD RHO 626
(1) EA.	CONCAVE WALL STOP (AS NEEDED)	ROCKWOOD	409 26D
GROUP H2: HALL DOOR			
(6) EA.	FULL MORTISE - 5 KNUCKLE HINGE	MCKINNEY	TA2714 4 1/2" x 4 1/2" 26D
(2) EA.	FLUSH BOLTS	ROCKWOOD	555 26D
(1) EA.	LEVER PULL	SCHLAGE	ND92LD RHO 626
(1) EA.	CONCAVE WALL STOP (AS NEEDED)	ROCKWOOD	409 26D

REFERENCE NOTES

FINISH SCHEDULE:
WALL PAINT
 MAIN COLOR: GREEK VILLA SW 67551L
 ACCENT COLOR: MAREA BAJA SW 9185

DOOR
 NATURAL WALNUT

MILLWORK
 NATURAL WALNUT

SOLID SURFACE
 Formica Classics - Luna Concrete 781

STORE FRONT SYSTEM
 KAWNEER TRIFAB VG 450 4-1/2" DEEP WITH A 1-3/4" SIGHT LINE - CENTER. CLEAR ANODIZED FINISH

GRID/TILE SYSTEM
 TILE: USG FROST 490
 GRID: BYU SPEC - WHITE



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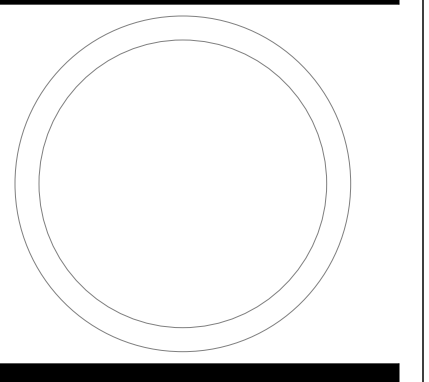
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REVISIONS

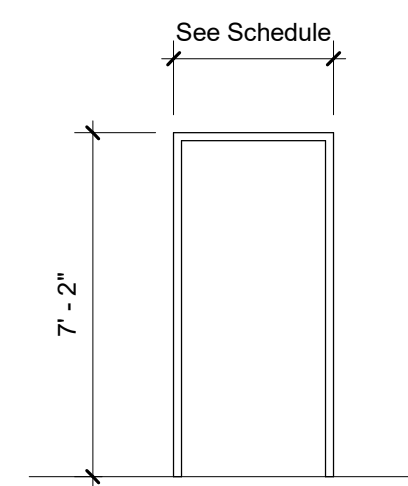
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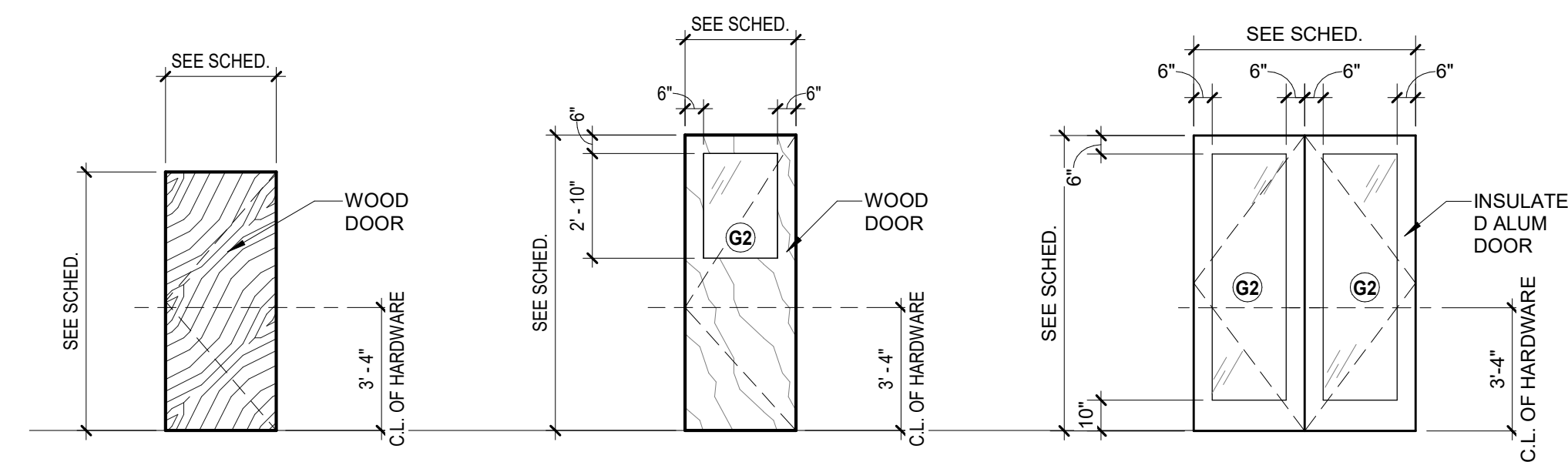
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ALL FRAMES NOT LISTED HERE WILL BE IN REPRESENTED IN STOREFRONT ELEVATIONS



F1
ALUMINUM



D1
WOOD

D2
WOOD - HALF LITE

D3
ALUMINUM

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

DOOR TYP.
SCALE: 1/4" = 1'-0" **1**



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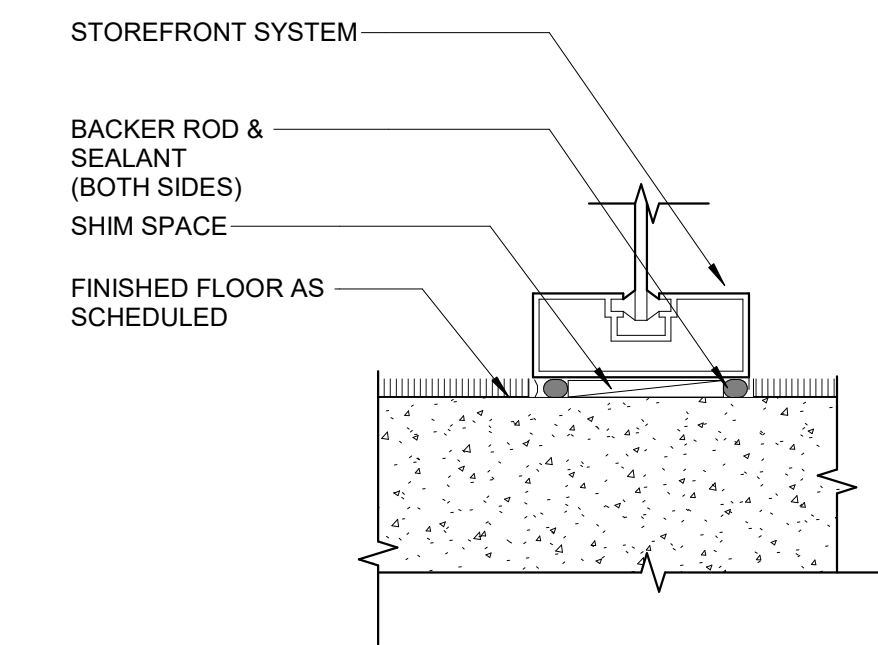
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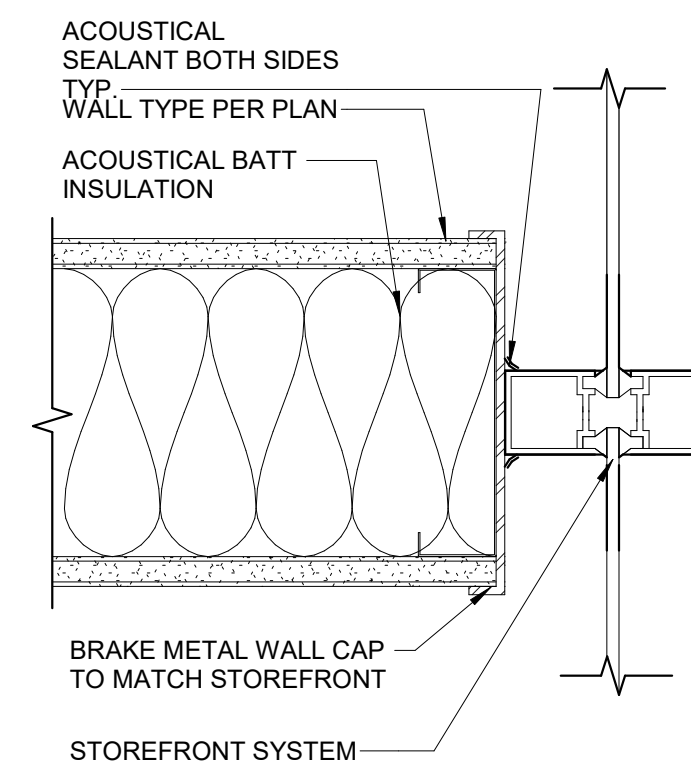
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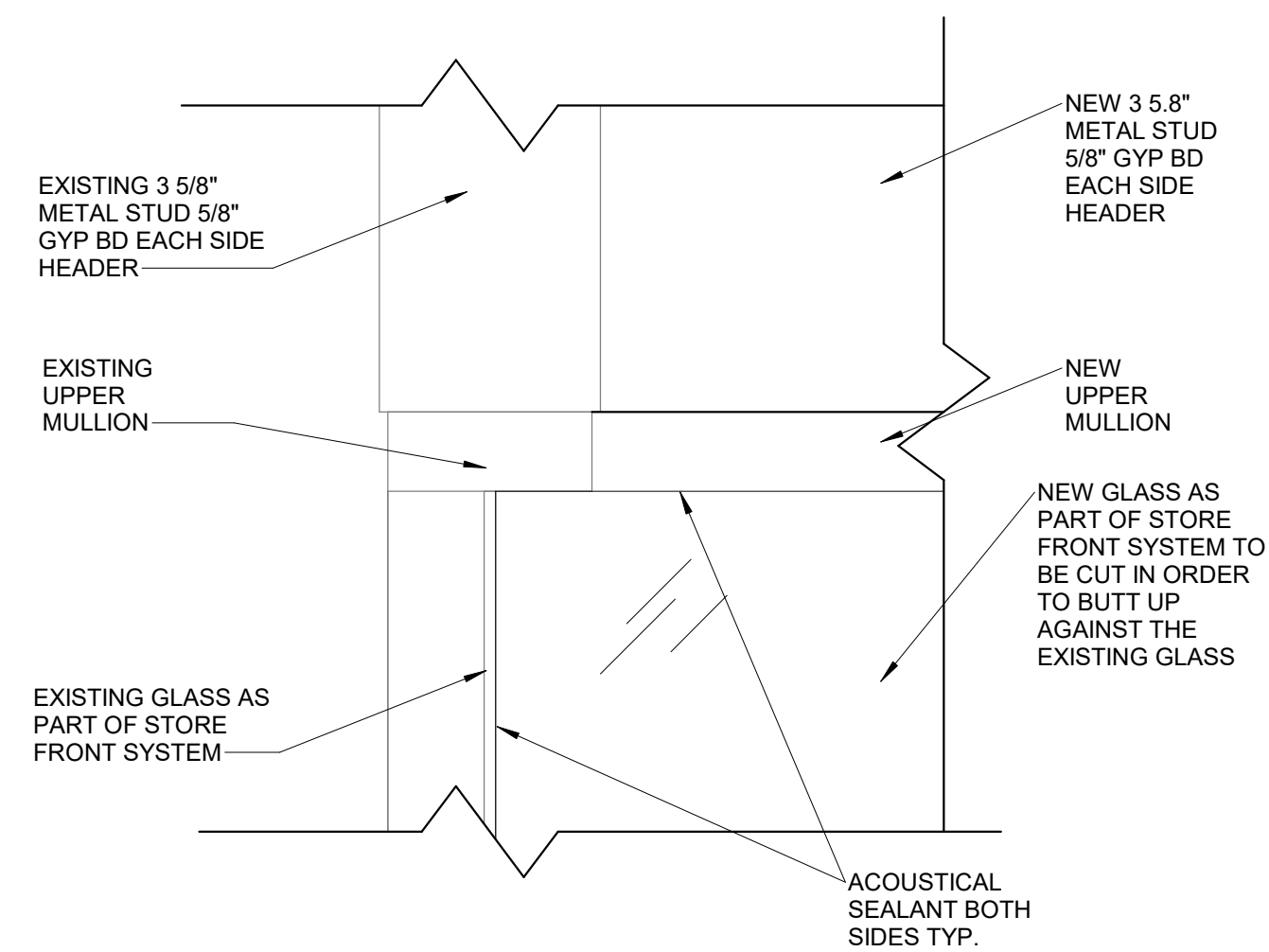
REFERENCE NOTES



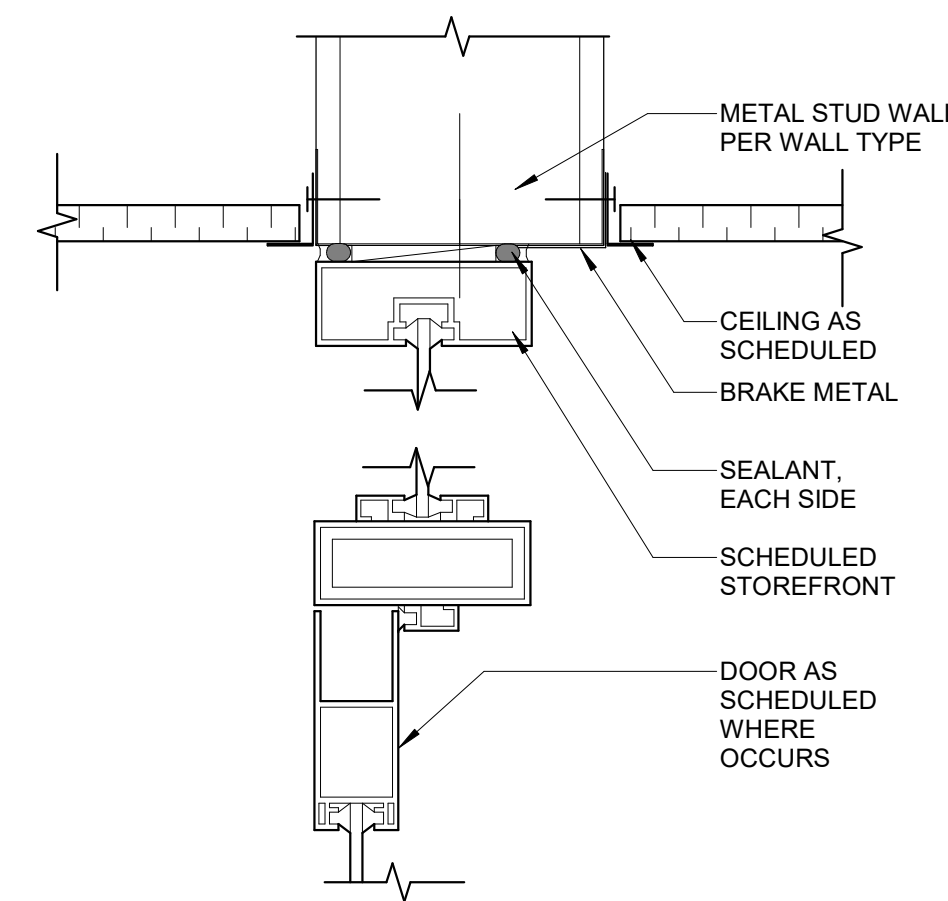
TYP. INTERIOR STOREFRONT SILL DETAIL 5
 SCALE: 3" = 1'-0"



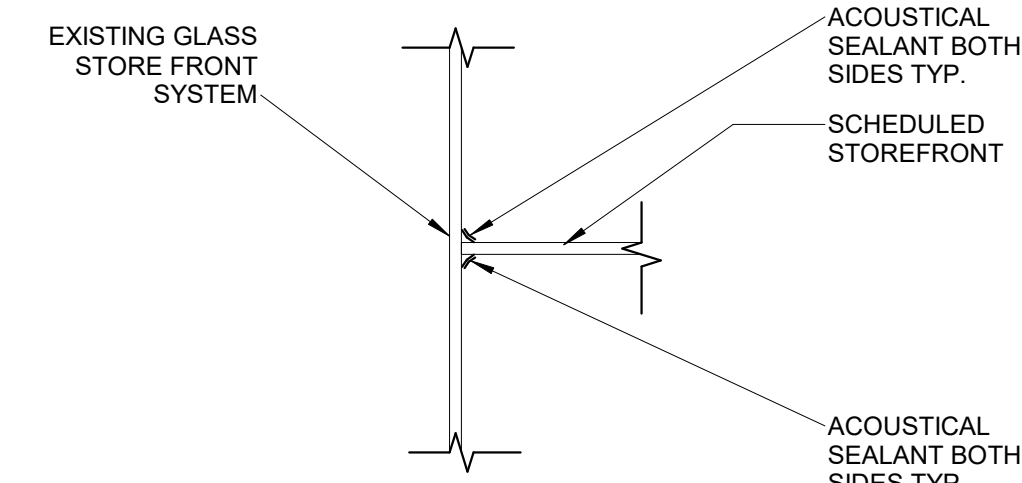
WALL TO MULLION DETAIL 6
 SCALE: 3" = 1'-0"



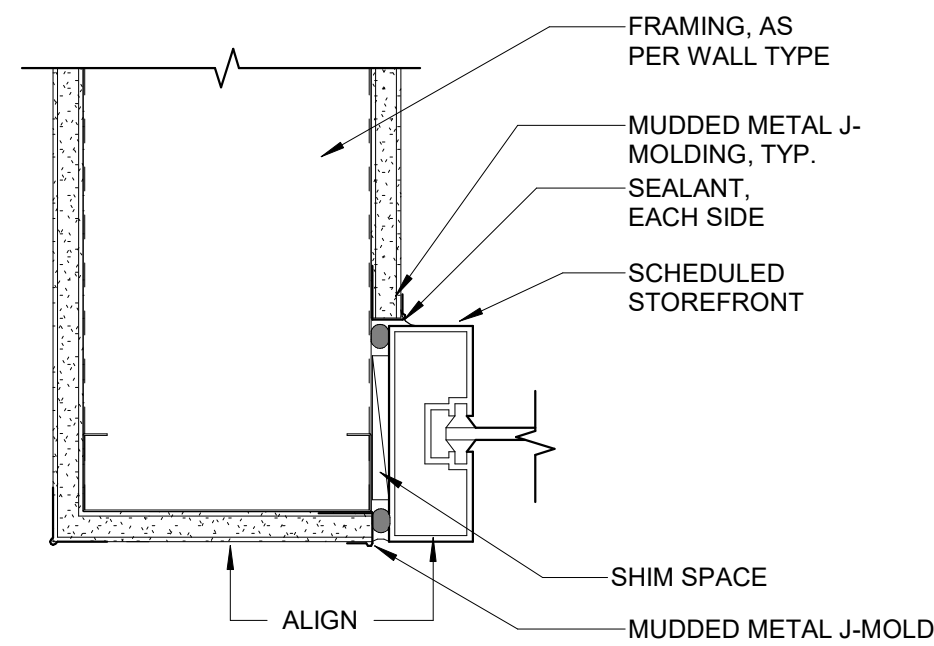
BUTT JOINT GLASS DETAIL 7
 SCALE: 3" = 1'-0"



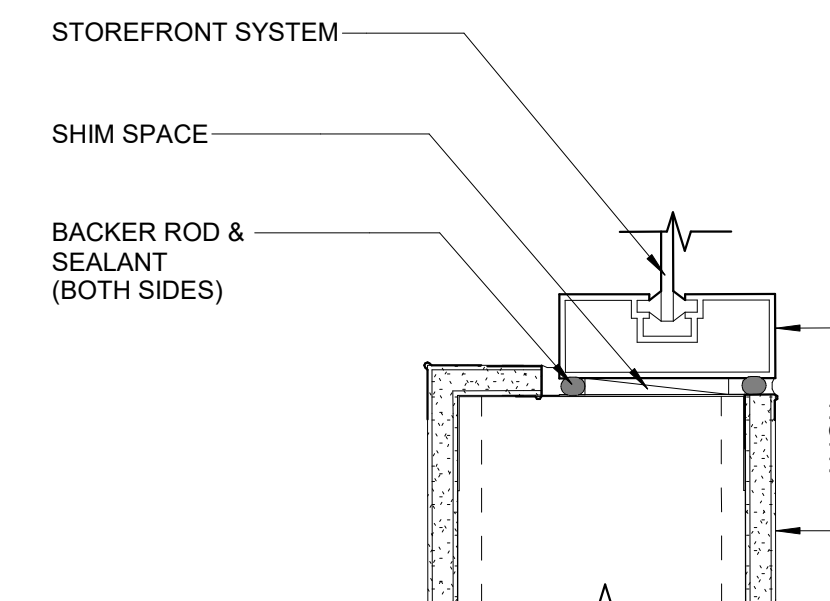
HEADER DETAIL 1
 SCALE: 3" = 1'-0"



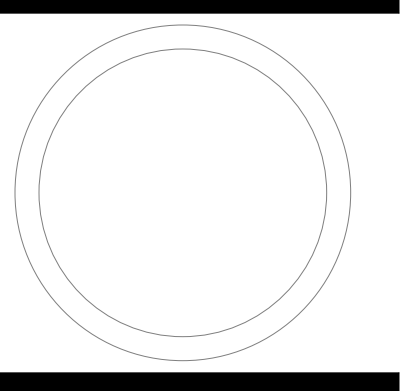
BUTT GLASS DETAIL 2
 SCALE: 3" = 1'-0"



JAMB DETAIL AT WALL 3
 SCALE: 3" = 1'-0"



SILL DETAIL 4
 SCALE: 3" = 1'-0"



STORE FRONT DETAILS

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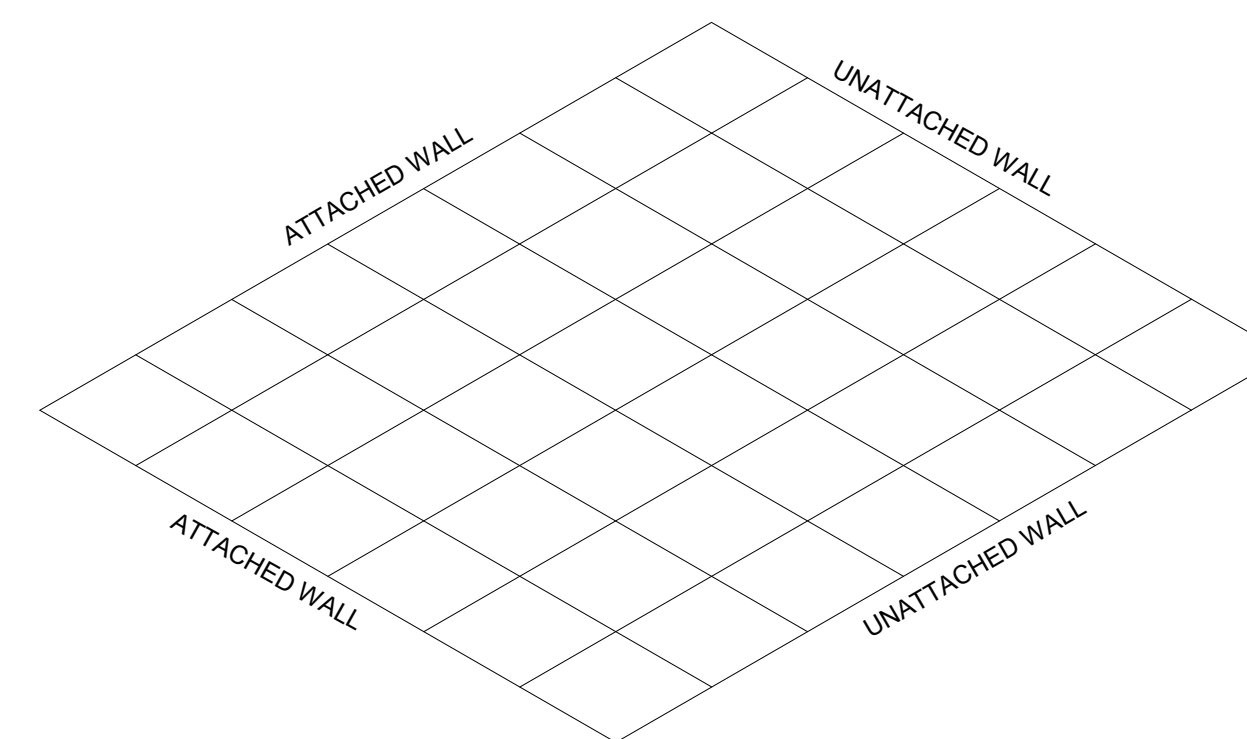
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2.1.0 SUSPENSION SYSTEMS

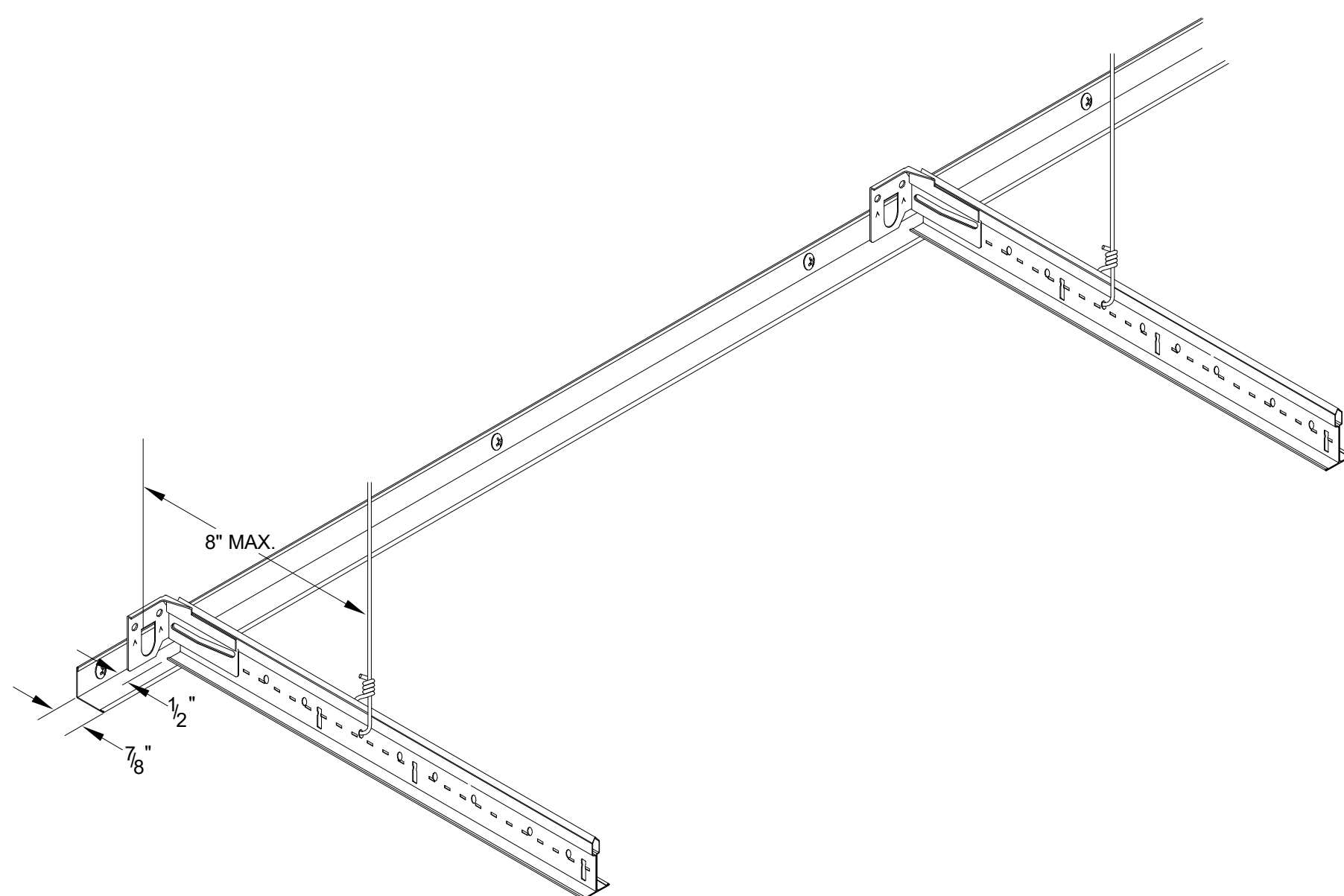
- A. Components:** All main beams and cross tees shall be commercial quality hot-dipped galvanized (galvanized steel, aluminum, or stainless steel) as per ASTM A 653. Main beams and cross tees are double-web steel construction with type exposed flange design. Exposed surfaces chemically cleansed, capping pre-finished galvanized steel (aluminum or stainless steel) in baked polyester paint. Main beams and cross tees shall have rotary stitching (exception: extruded aluminum or stainless steel).
- Structural Classification: ASTM C 635 Heavy Duty.
 - Color: White and match the actual color of the selected ceiling tile.
- B. Attachment Devices:** Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.
- C. Wire for Hangers and Ties:** ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least three design load, but not less than 12 gauge.
- D. Edge Moldings and Trim:** Metal or extruded aluminum of types and profiles indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations, including light fixtures, that fit type of edge detail and suspension system indicated.

2.2 INSTALLATION

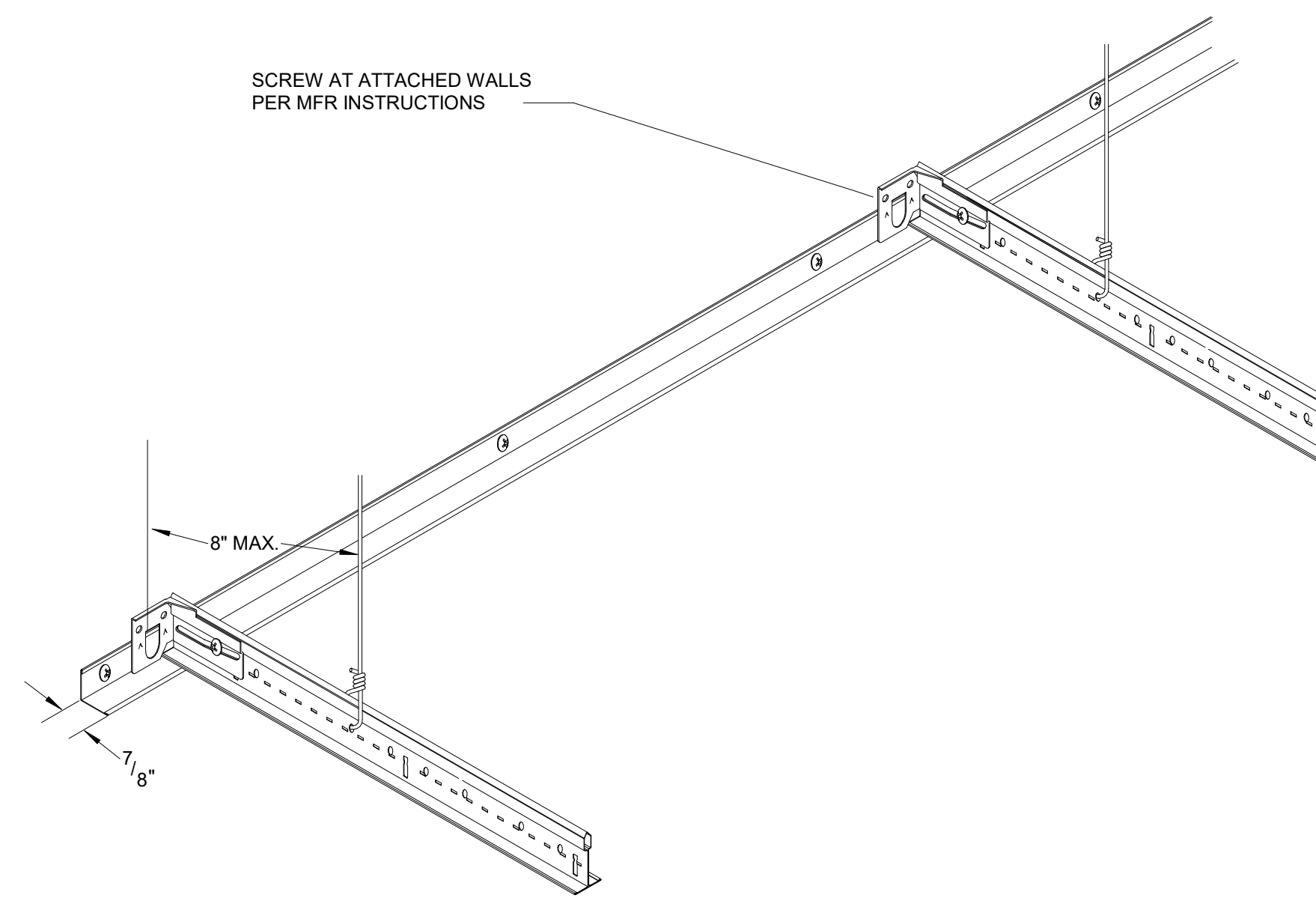
- Install suspension system and panels in accordance with the manufacturer's instructions, and in compliance with ASTM C 636 and with the authorities having jurisdiction.
- Suspend main beam from overhead construction with hanger wires spaced 4'-0" on center along the length of the main runner. Install hanger wires plumb and straight.
- Install wall moldings at intersection of suspended ceiling and vertical surfaces. Miter corners where wall moldings intersect or install corner caps.
- For reveal edge panels: Cut and reveal or rabbet edges of ceiling panels at border areas and vertical surfaces.
- Install acoustical panels in coordination with suspended system, with edges resting on flanges of main runner and cross tees. Cut and fit panels neatly against abutting surfaces. Support edges by wall moldings.



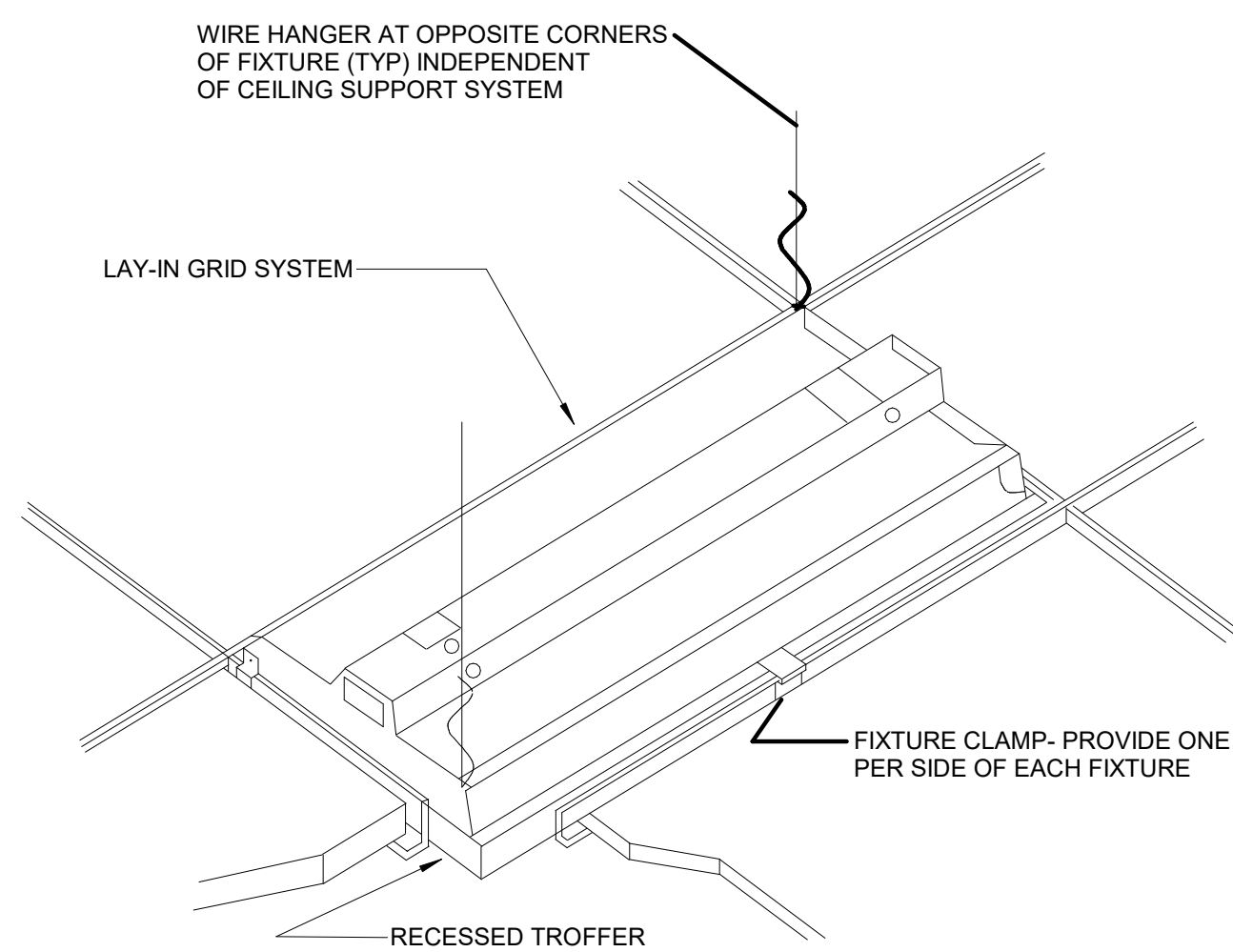
PERIMETER CLIP LAYOUT 6
SCALE: 1" = 1'-0"



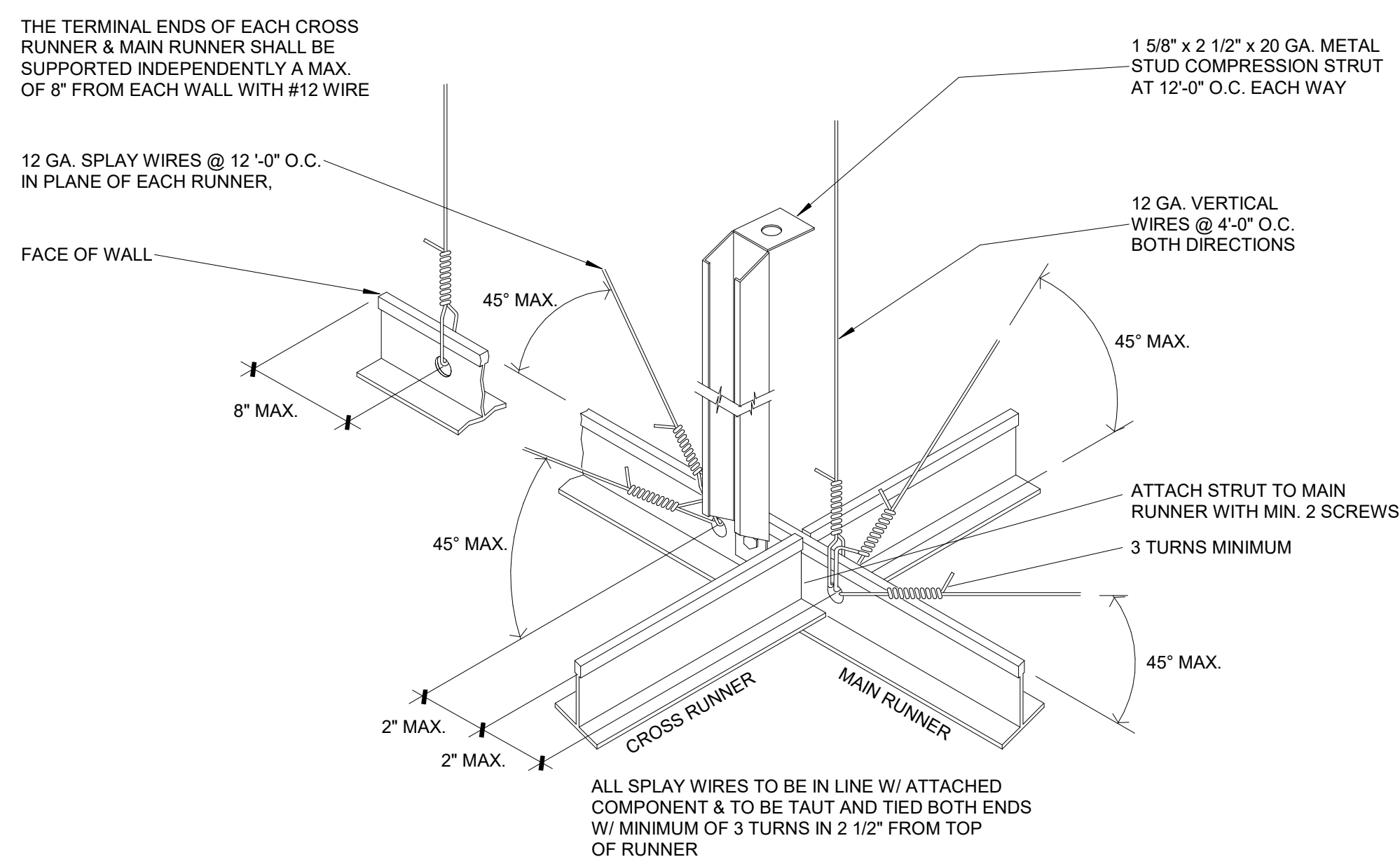
PERIMETER CLIP DETAIL @ UNATTACHED WALL 5
SCALE: 1" = 1'-0"



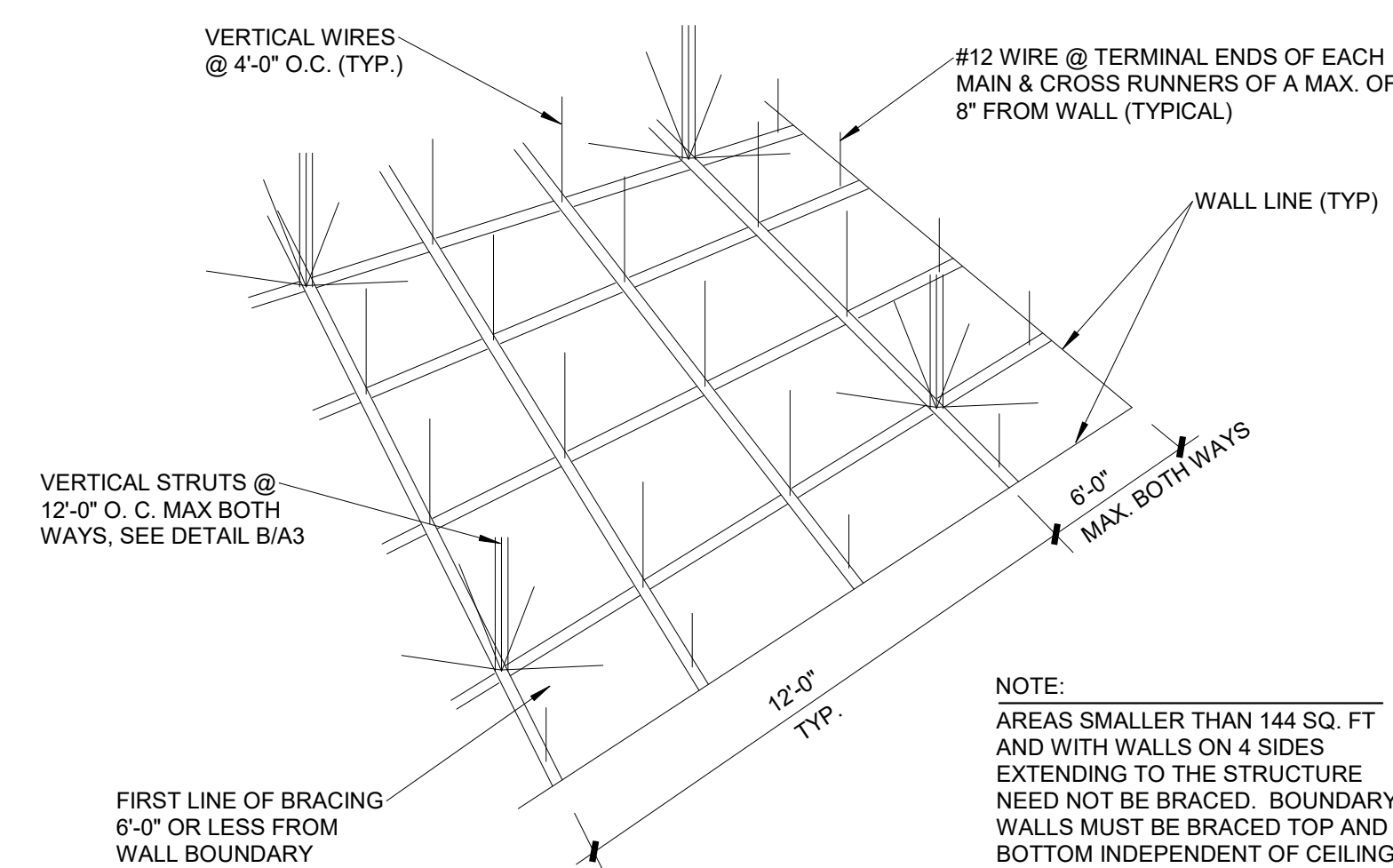
PERIMETER CLIP DETAIL @ ATTACHED WALL 4
SCALE: 1" = 1'-0"



RECESSED LIGHT FIXTURE MOUNTING DETAIL 3
SCALE: 1" = 1'-0"



SEISMIC BRACING 2
SCALE: 1" = 1'-0"



SEISMIC BRACING LAYOUT 1
SCALE: 1" = 1'-0"

REFERENCE NOTES

- FINISH SCHEDULE:**
- WALL PAINT**
MAIN COLOR: GREEK VILLA SW 67551L
ACCENT COLOR: MAREA BAJA SW 9185
- DOOR**
NATURAL WALNUT
- MILLWORK**
NATURAL WALNUT
- SOLID SURFACE**
Formica Classics - Luna Concrete 781
- STORE FRONT SYSTEM**
KAWNEER TRIFAB VG 450 4-1/2" DEEP WITH A 1-3/4" SIGHT LINE - CENTER. CLEAR ANODIZED FINISH
- GRID/TILE SYSTEM**
TILE: USG FROST 490
GRID: BYU SPEC - FLAT WHITE



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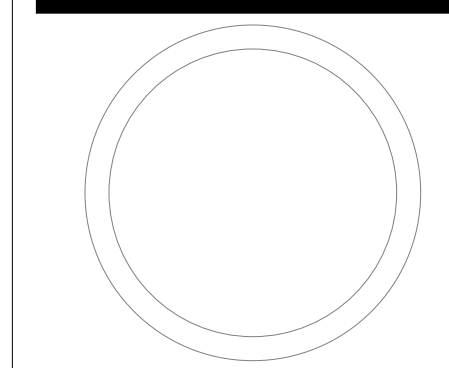
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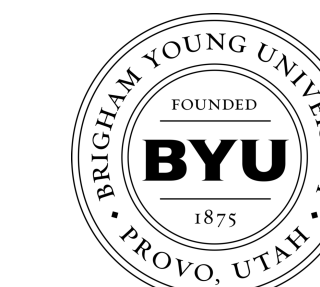


CEILING DETAILS

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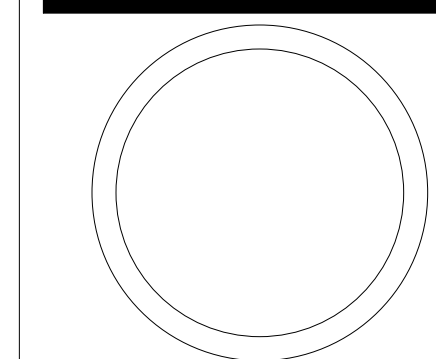
DATE: February 2024
DESIGNER: J. Jensen
DRAWN BY: J. Jensen

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MECHANICAL NOTES & SCHEDULES

WORK ORDER & SHEET NO.

**M0
N1864**

CONSTRUCTION DOCS — CONTRACT

AIR HANDLING SYMBOLS	
SYMBOL	DESCRIPTION
	AIR FLOW DIRECTION
	OPPOSED BLADE DAMPER
	PARALLEL BLADE DAMPER
	SUPPLY DUCT (CROSS SECTION)
	RETURN AIR or EXHAUST (CROSS SECTION)
	DUCT SIZE, INSIDE CLEAR DIMENSION
	DUCT w/ACOUSTIC LINING, INSIDE CLEAR DIMENSION
	DUCT RISE
	DROP or RISE IN SUPPLY DUCT
	SLOT SUPPLY DIFFUSER or REGISTER
	CEILING SUPPLY DIFFUSER or REGISTER
	CEILING RETURN/EXHAUST AIR REGISTER or GRILLE
	SIDEWALL SUPPLY DIFFUSER or REGISTER
	SIDEWALL RETURN/EXHAUST AIR REGISTER or GRILLE
	AIR TURNING VANES
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT
	FIRE DAMPER
	HAND DAMPER
	45° SQUARE to SQUARE TAKE-OFF
	45° SQUARE to ROUND TAKE-OFF
	MITCO TYPE VARIABLE AIR VALVE
	VARIABLE VOLUME AIR VALVE
	THERMOSTAT
	SENSOR
	DOOR GRILLE
	UNDER CUT DOOR

MECHANICAL GENERAL NOTES

- PROVIDE BALANCING DAMPER AT EACH BRANCH TAKE-OFF TO SERVE DIFFUSER OR GRILLE AS WELL AS WHERE INDICATED.
- COORDINATE EXACT LOCATION OF DUCTS WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING, CABLE TRAY, PLUMBING, MECHANICAL PIPING, FIRE PROTECTION, ETC.
- BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK SIZE OF THE DIFFUSER, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE, TYPICAL.
- SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL REGISTERS, DIFFUSERS AND GRILLES.
- DETAILS REFERENCE ALL SHEETS.
- INSTALL ALL HARD ELBOWS AS SHOWN. HARD ELBOWS ARE REQUIRED FOR SOUND ATTENUATION.
- INSTALL EQUIPMENT WITH CLEARANCE PER MANUFACTURERS RECOMMENDATIONS. MAINTAIN PROPER SPACE FOR COIL PULL, CONTROLS, AND MAINTENANCE ACCESS.
- ALL BRANCH TAKE-OFFS TO HAVE A HIGH EFFICIENCY FITTING. SEE DETAIL.
- INSTALL TURNING VANES IN ALL SQUARE LOW PRESSURE DUCTWORK.

MECHANICAL PIPING GENERAL NOTES

- PIPING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY ALL ROUTING AND COORDINATE WITH ALL OTHER TRADES.
- NO PIPING TO RUN DIRECTLY OVER ELECTRICAL PANELS, MCCS OF VFDS. ROUTE AROUND AS REQUIRED.
- INSTALL A MANUAL AIR VENT AT ALL HYDRONIC SYSTEM HIGH POINTS.
- INSTALL ALL EQUIPMENT WITH SUFFICIENT CLEARANCE FOR MAINTENANCE PER MANUFACTURERS RECOMMENDATION. PROVIDE A 24"x 24" ACCESS DOOR BELOW EQUIPMENT BOX AND CONTROL VALVE WHERE INSTALLED OVER NON LAY-IN CEILING AREAS.
- COORDINATE EXACT LOCATION OF THERMOSTATS WITH ARCHITECTURAL FURNISHINGS.
- INSTALL A 24"x 24" ACCESS PANEL BELOW ALL VALVES, CIRCUIT SETTERS, & CONTROL VALVES OVER NON-LAY-IN CEILINGS.
- MECHANICAL PIPING TO BE INSTALLED ABOVE DUCTWORK AND EQUIPMENT EXCEPT WHERE SHOWN.
- FIELD VERIFY ALL EQUIPMENT LOCATIONS.

FIRE PROTECTION GENERAL NOTES

- DRAWING SHOULD NOT BE CONSIDERED AS A SHOP DRAWING. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND COORDINATE ALL PIPING WITH STRUCTURAL, MECHANICAL AND ELECTRICAL. SUBMIT SHOP DRAWINGS FOR FINAL REVIEW.
- OFFSETS ARE TO BE ANTICIPATED IN BRANCH LINES AND ARE TO BE COORDINATED BY THE CONTRACTOR WITH EXISTING CONDITIONS AND OTHER TRADES. MAKE ADDITIONAL OFFSETS AS REQUIRED.
- HANGERS AND BRACING ARE NOT SHOWN ON THIS DRAWING. REFER TO THE SPECIFICATION REQUIREMENTS AND INSTALL ACCORDINGLY.
- ALL HEADS ARE TO BE CONCEALED TYPE, APPROVED SPRINKLERS.
- CONTRACTOR IS TO DEVELOP SHOP DRAWINGS AND HYDRAULIC CALCULATIONS CONFORMING TO NFPA 13. ADDITIONAL HEADS AND/OR PIPING REQUIRED TO MEET SAID STANDARDS IS THE RESPONSIBILITY OF THE CONTRACTOR. LOCATION OF ADDITIONAL HEADS ARE TO BE COORDINATED WITH ARCHITECT AND ENGINEER AND SUBMITTED FOR THEIR REVIEW.
- NO FIRE PROTECTION LINE IS TO BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES: DUCTWORK, MECHANICAL PIPING, AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION PIPING. FAILURE TO COMPLY WILL RESULT IN FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.

HYDRONIC CONTROL VALVE SCHEDULE							
MARK	Cv	SIZE	FLOW RANGE (GPM)	TYPE	ACT.	USE	QTY
CB1	< 1.6	1/2"	0.5 - 3.5	BALL	A3	RH	5
CB2	1.6 - 2.5	1/2"	3.6 - 5.6	BALL	-	-	
CB3	2.5 - 4	1/2"	5.7 - 8.9	BALL	-	-	
CB4	5 - 10	1/2"	9.0 - 22	BALL	-	-	
CB5		3/4"		BALL	-	-	

ACTUATORS:

- A1- NORMALLY OPEN, SPRING RETURN (AHU HW COILS)
- A2- NORMALLY CLOSED, SPRING RETURN (AHU CHW COILS)
- A3- ON/OFF, FLOATING POINT, NON-SPRING RETURN (RE-HEAT COILS)

USE:

- CHW CHILLED WATER
- HW HOT WATER
- PH PRE-HEAT
- RH REHEAT COILS

BALANCE VALVE SCHEDULE			
MARK	SIZE	GPM for 1-5 ft. HD	QTY
BV1	1/2"	0.5 - 2.5	5
BV2	3/4"	2 - 5	-
BV3	1"	4 - 9.5	-

NIC (NOT-IN-CONTRACT) COORDINATION LIST					
Item	Furnished by BYU	Installed by BYU / BYU Vendor	Installed by General Contractor	Furnished by General Contractor	Notes
Mechanical Controls Hardware (both system and terminal units) by Atkinson or Johnson Controls	x		x		
Mechanical Controls Raceway			x	x	
Mechanical Controls Programming (Software - both system and terminal units) by Atkinson or Johnson Controls	x	x			

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE				
ID	MANUFACTURER	MODEL	DESCRIPTION	
CD	EH PRICE	SPD	FACE STYLE: SQUARE PLAQUE DIFFUSER FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING SPACE AVAILABLE MATERIAL: STEEL FINISH: B12 WHITE POWDERCOAT	MOUNTING-FRAME: SURFACE OR LAY-IN, (C/W CEILING TYPE.) PATTERN: 360° RADIAL HORIZONTAL AIR PATTERN DAMPER: OPPOSED BLADE MAX NC - 30 DAMPER: NONE REMOVABLE FACE
RG	EH PRICE	PDDR	FACE STYLE: PERFORATED RETURN AIR UNIT FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING SPACE AVAILABLE. APPLICATION: AIR RETURN / EXHAUST MATERIAL: STEEL FINISH: B12 WHITE POWDERCOAT	MOUNTING-FRAME: SURFACE OR LAY-IN, (C/W CEILING TYPE.) DAMPER: NONE MAX NC - 30 REMOVABLE FACE & CORE

VAV BOX SCHEDULE															
NAME	MANUF. AND MODEL NO.	UNIT / INLET SIZE (IN)	COOLING AIR FLOW RATE (CFM)	HEATING AIR FLOW RATE (CFM)	MINIMUM AIR FLOW RATE (CFM)	ENTERING AIR TEMP DB (DEG. F)	S.P. LOSS AT MAX CFM (INWG)	NC AT 1.25 INWG	FLUID			NUMBER OF COIL ROWS	PIPE SIZE (IN)	REMARKS	
									HEAT LOAD (MBH)	FLOW RATE (GPM)	EWT (DEG. F)				
VR1	PRICE SDV	6	250	150	85	52	0.11	26	7.9	0.5	180	1	2	3/4	1, 2
VR2	PRICE SDV	6	250	150	85	52	0.11	26	7.9	0.5	180	1	2	3/4	1, 2
VR3	PRICE SDV	6	250	150	85	52	0.11	26	7.9	0.5	180	1	2	3/4	1, 2
VR4	PRICE SDV	6	250	150	85	52	0.11	26	7.9	0.5	180	1	2	3/4	1, 2
VR5	PRICE SDV	8	860	520	175	52	0.64	30	27.1	2	180	1	2	3/4	1, 2
VR6	PRICE SDV	6	265	155	90	52	0.15	26	7.9	0.5	180	1	2	3/4	1, 2

- PROVIDE WITH REHEAT COILS AS SEPARATE ITEM MOUNTED 12" DOWNSTREAM FROM VAV BOX WITH ACCESS PANEL. SEE DETAIL.
- HEATING IS BASED ON 100 DEGREES F LEAVING AIR TEMPERATURE.

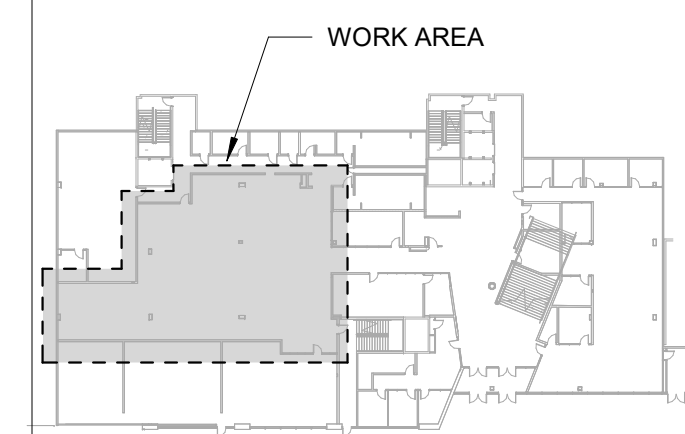
REFERENCE NOTES

1. REMOVE EXISTING DUCTWORK AS SHOWN BACK TO ACTIVE MAINS AND CAP. FIELD VERIFY EXISTING CONDITIONS.
2. CONNECT TO EXISTING. FIELD VERIFY EXISTING CONDITIONS.
3. INSTALL EXISTING TRANSFER AIR DUCTS IN NEW LOCATION.
4. SALVAGE EXISTING TRANSFER AIR DUCTS AND RELOCATE TO NEW WALL. SEE NEW PLAN.

GENERAL NOTES

1. ALL SUPPLY DIFFUSERS SHALL BE CD AS SCHEDULED. ALL RETURN AIR GRILLES SHALL BE RG AS SCHEDULED.
2. ALL RETURN TRANSFER DUCT BRANCHES ARE 6"x6" UNLESS OTHERWISE NOTED. CONTROL VALVES AND BALANCE VALVES FOR VAV BOXES WILL BE CB1 AND BV1. SEE SCHEDULES.
3. INSULATE ALL NEW OR REPAIRED AND UNLINED SUPPLY AIR DUCTWORK WITH 1" THICK FIBERGLASS INSULATION WITH ALUMINUM FOIL SCRIM KRAFT FACING AND A DENSITY OF 1.5 LB/FT³. COORDINATE ALL DIFFUSER LOCATIONS WITH LIGHTING LAYOUT.
4. LAY OUT ALL DUCTWORK SUCH THAT DUCT RUN-OUTS OR DROPS TO DIFFUSERS ARE ALIGNED TO AVOID UNNECESSARY OFFSETS. USE FLEXIBLE DUCT ONLY WHERE HARD DUCTING IS NOT POSSIBLE. FLEXIBLE DUCT SHALL BE INSTALLED SUCH THAT THE CENTER LINE OF THE DIFFUSER NECK SHALL NOT BE OFFSET FROM THE CENTER LINE OF THE DUCT ELBOW BY MORE THAN ONE DUCT RADIUS. NO MORE THAN 24" MAXIMUM LENGTH OF FLEX DUCT AND NO FLEX DUCT ELBOWS ALLOWED.
5. THE JOINTS AND SEAMS OF ALL SUPPLY AIR DUCTWORK SHALL BE SEALED. MASTIC SEALING COMPOUND SHALL BE DUDODYNE S-2, 3M EC-750, IRON GRIP 601 OR HARDCAST TWO-PART SYSTEM II.
6. AIR BALANCE ALL DIFFUSERS AND VAV BOXES TO AIR VOLUMES NOTED IN SCHEDULE OR ON PLANS.
7. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL DIFFUSERS, GRILLES, FIRE SPRINKLERS, ETC.
8. ALL NEW FIRE SPRINKLER HEADS IN OFFICES WITH LAY-IN CEILINGS SHALL BE CONCEALED TYPE WITH A FRANGIBLE GLASS BULB AND A WHITE COVER PLATE ASSEMBLY.

LOCATION PLAN



HCEB — LEVEL 1



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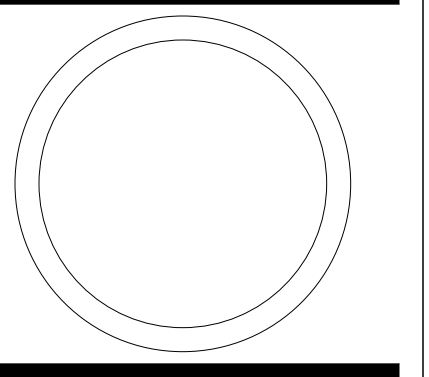
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DESIGNER: Designer
DRAWN BY: Author

ADA CHECK: _____
CODE CHECK: _____
STRUCTURAL: _____
UTILITIES DIR: _____
PLANNING DIR: _____

CLIENT APPROVAL _____ DATE _____

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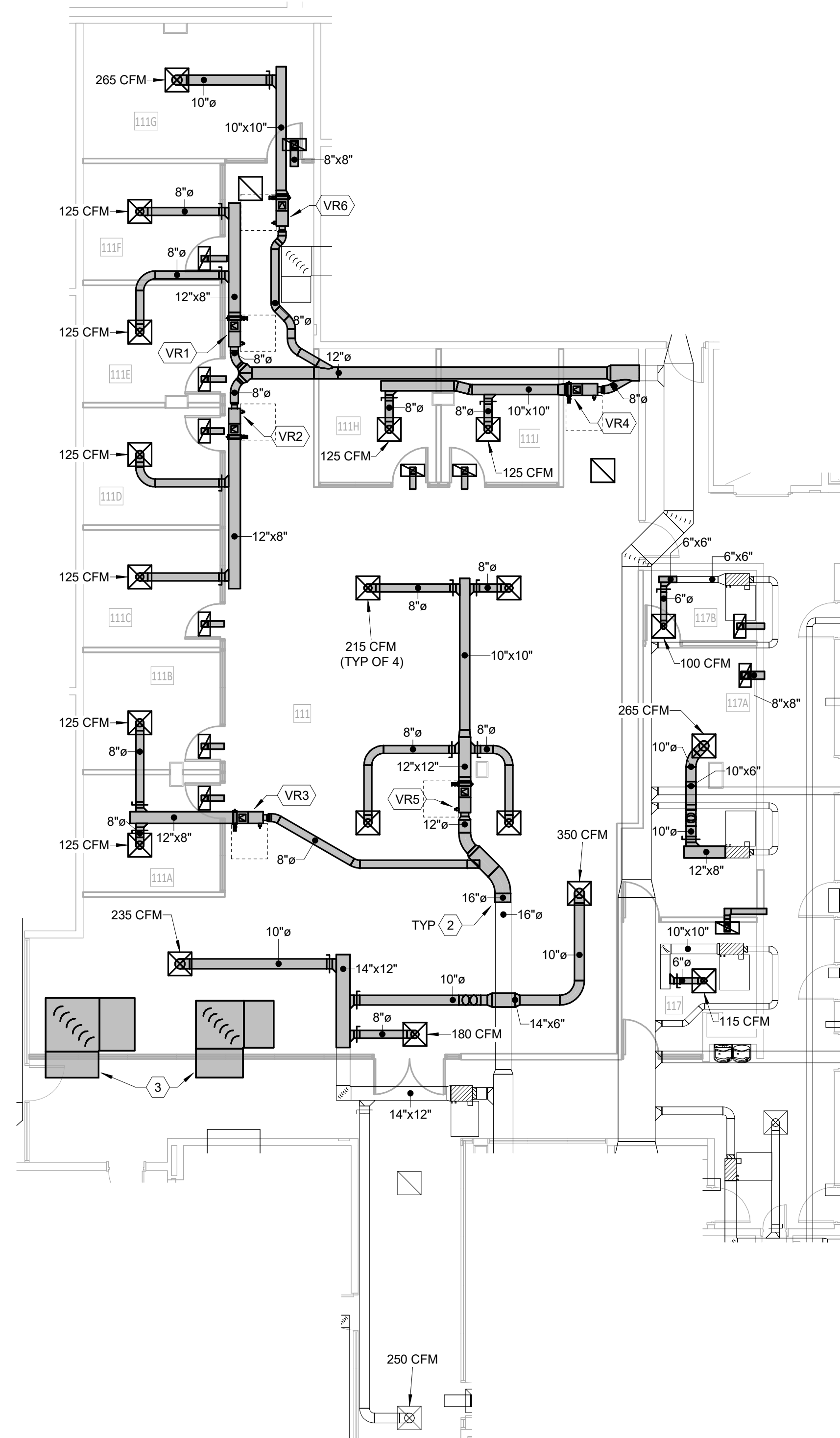


MECHANICAL PLAN

WORK ORDER & SHEET NO.

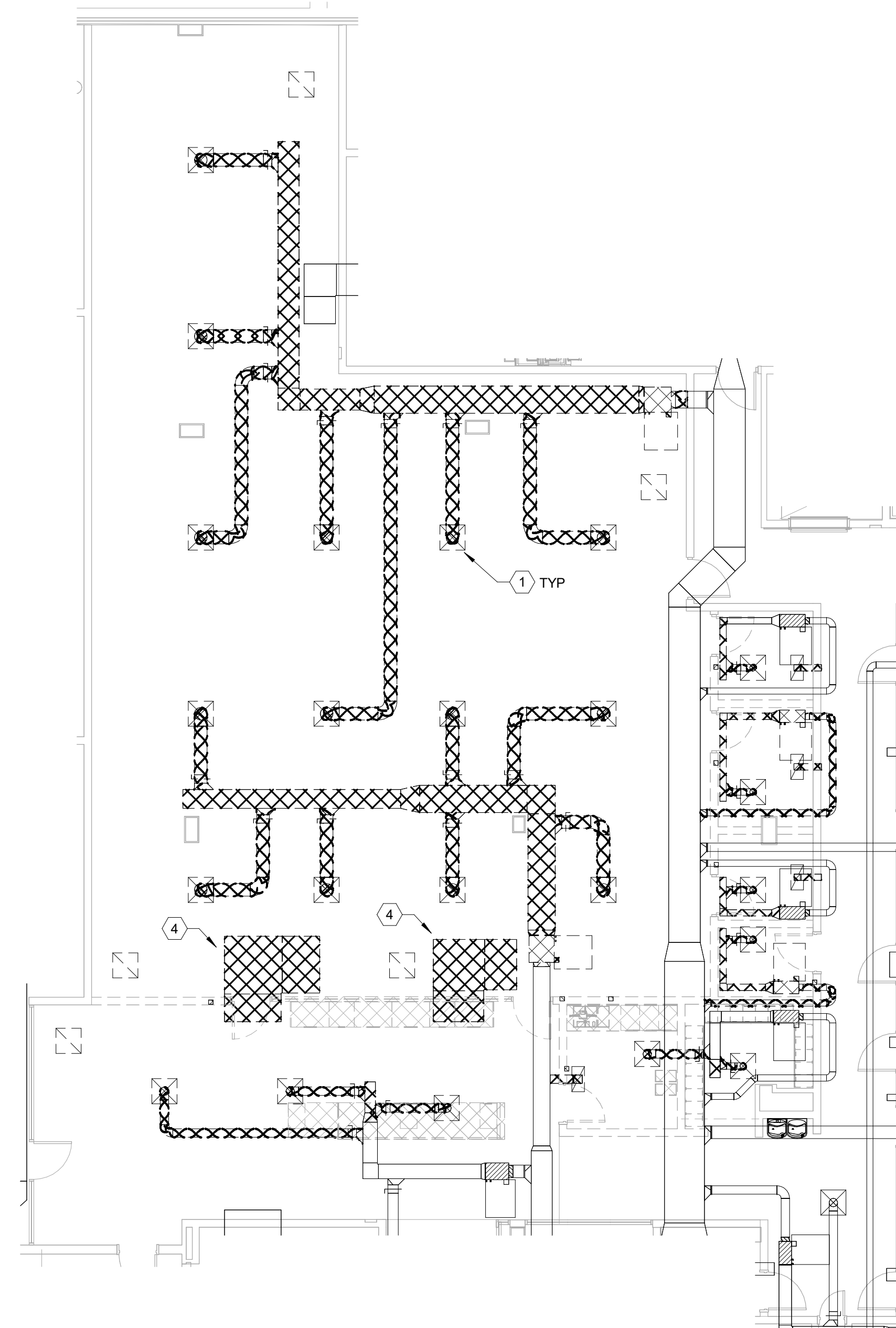
M1
N1864

CONSTRUCTION DOCS — CONTRACT



N1864 MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

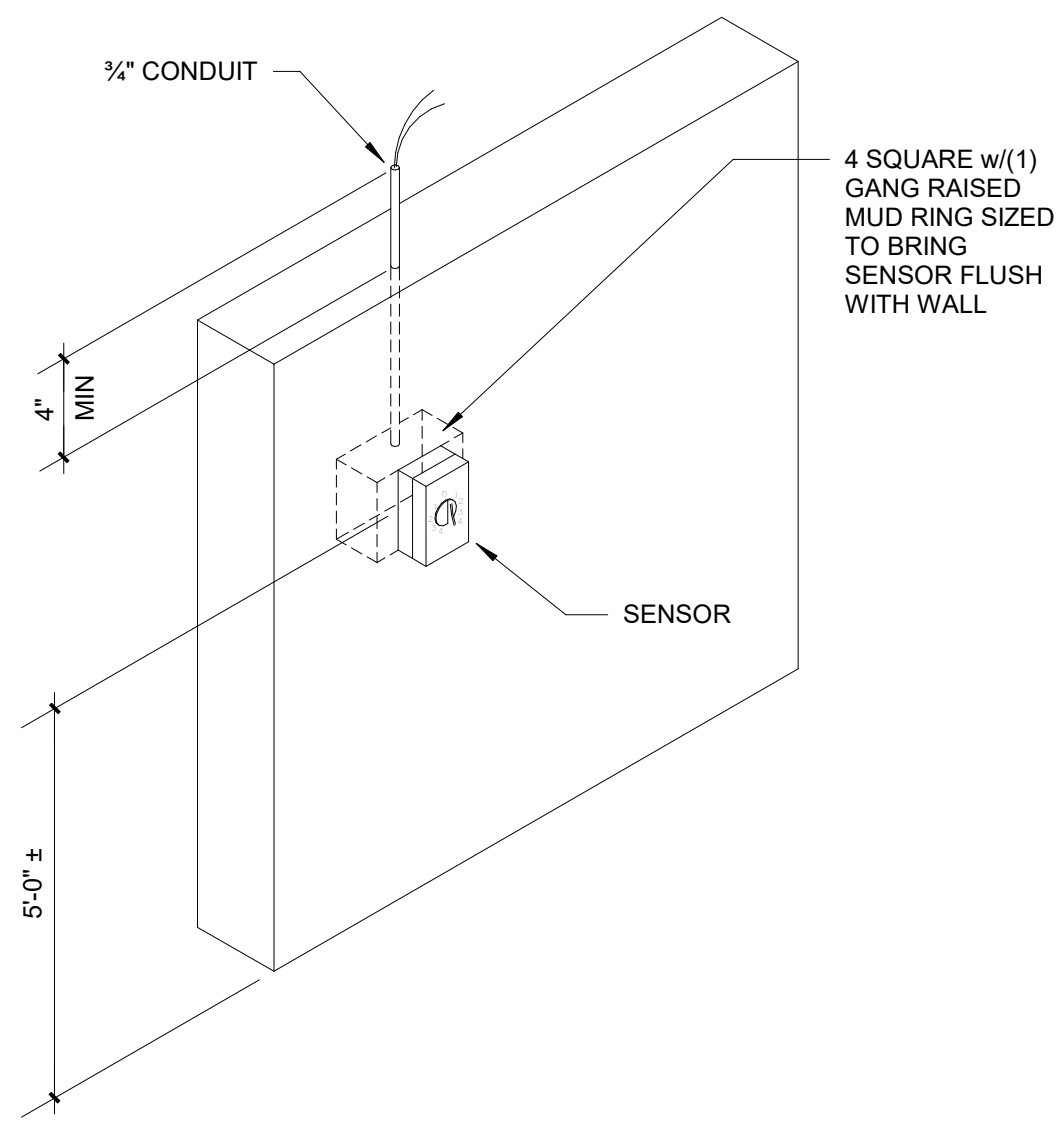
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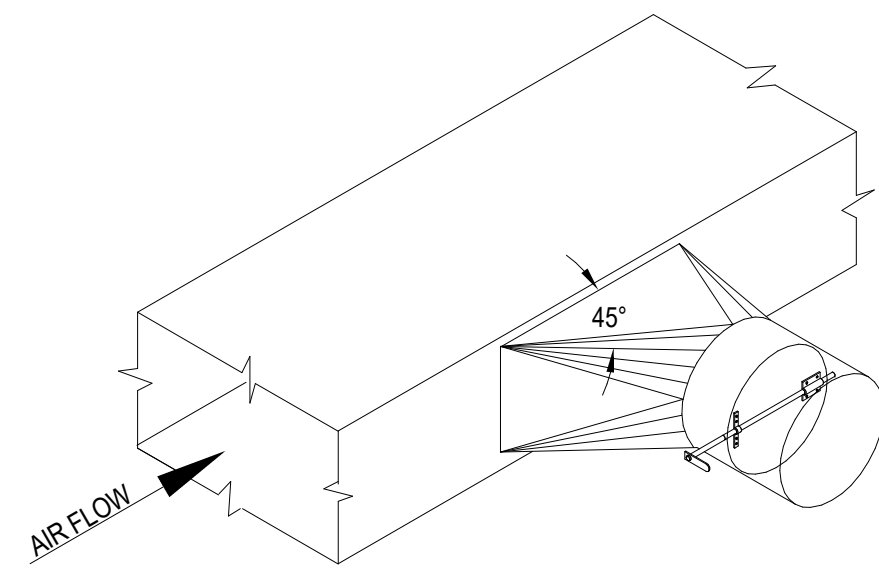
N1864 MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

1

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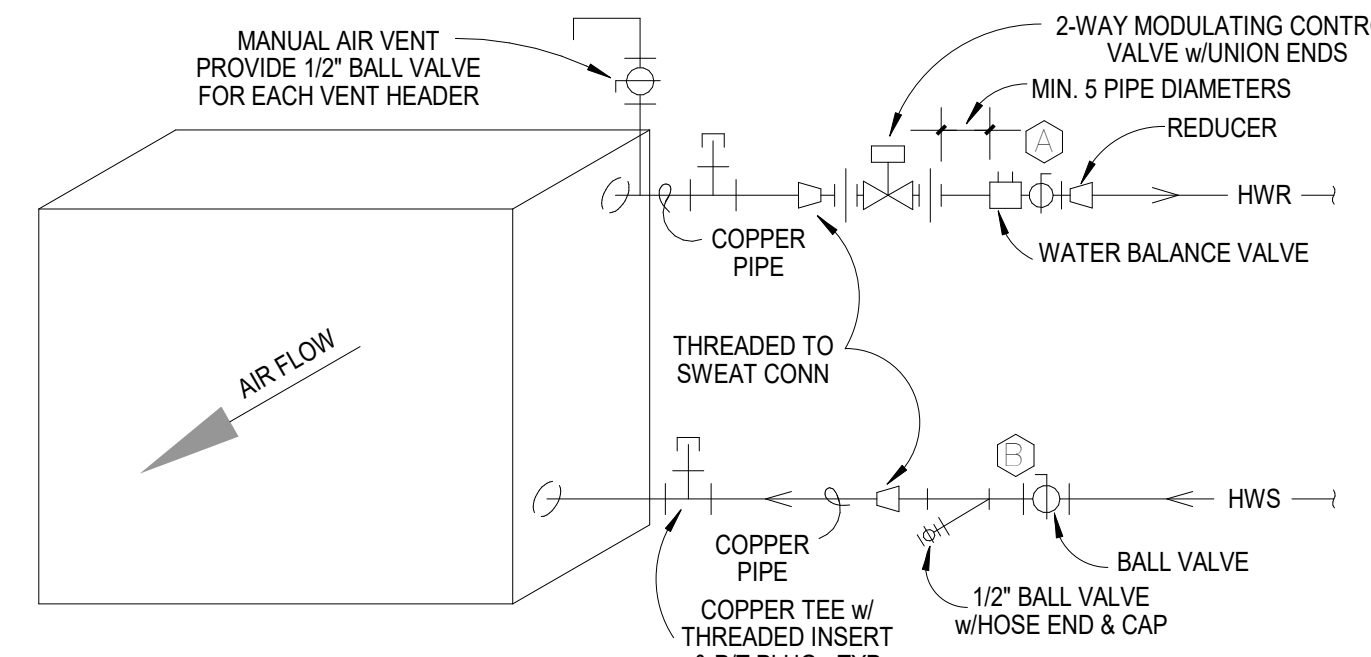
SENSOR/CONDUIT INSTALLATION DETAIL
SCALE — NTS



MANUFACTURED HIGH EFFICIENCY TAKE-OFF w/FLANGE AND 2" DAMPER HANDLE EXTENSION. HET SHALL HAVE AN ADJUSTABLE VOLUME DAMPER AND POSITIVE LOCKING HARDWARE. HET FLANGE SHALL BE SUPPLIED WITH AN ADHESIVE COATED DOUBLE FACED GASKET TO ASSURE A TIGHT SEAL. HET SHALL BE BUILT IN ACCORDANCE WITH SMOCA STANDARDS & SHALL BE TESTED BY ETL TESTING LABS. AS MANUFACTURED BY SHEET METAL CONNECTORS INC., OR EQUAL.

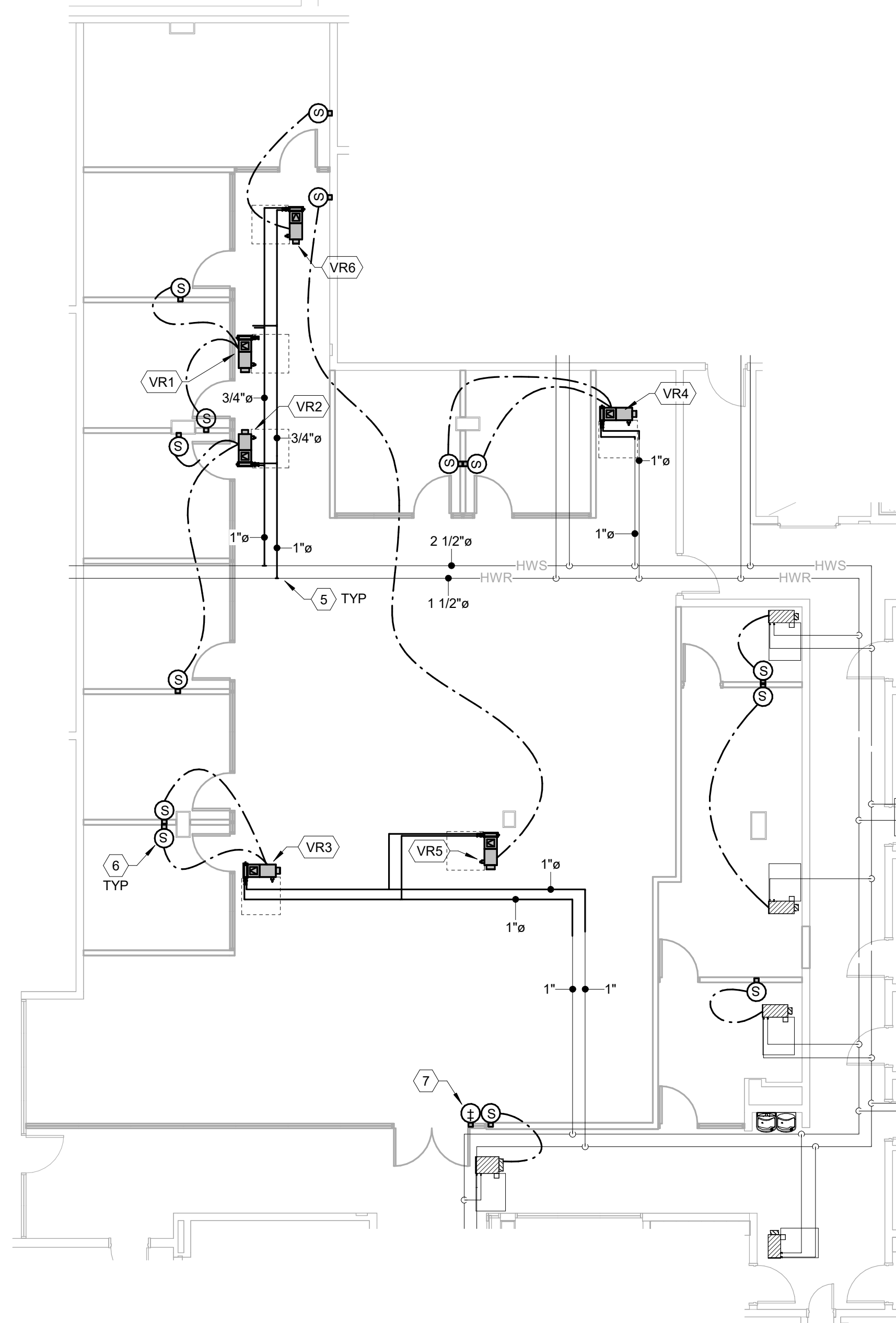
HIGH EFFICIENCY TAKE-OFF w/DAMPER DETAIL
SCALE — NTS

NOTE: TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO DUCT WIDTHS TO ELBOWS or INTERSECTIONS

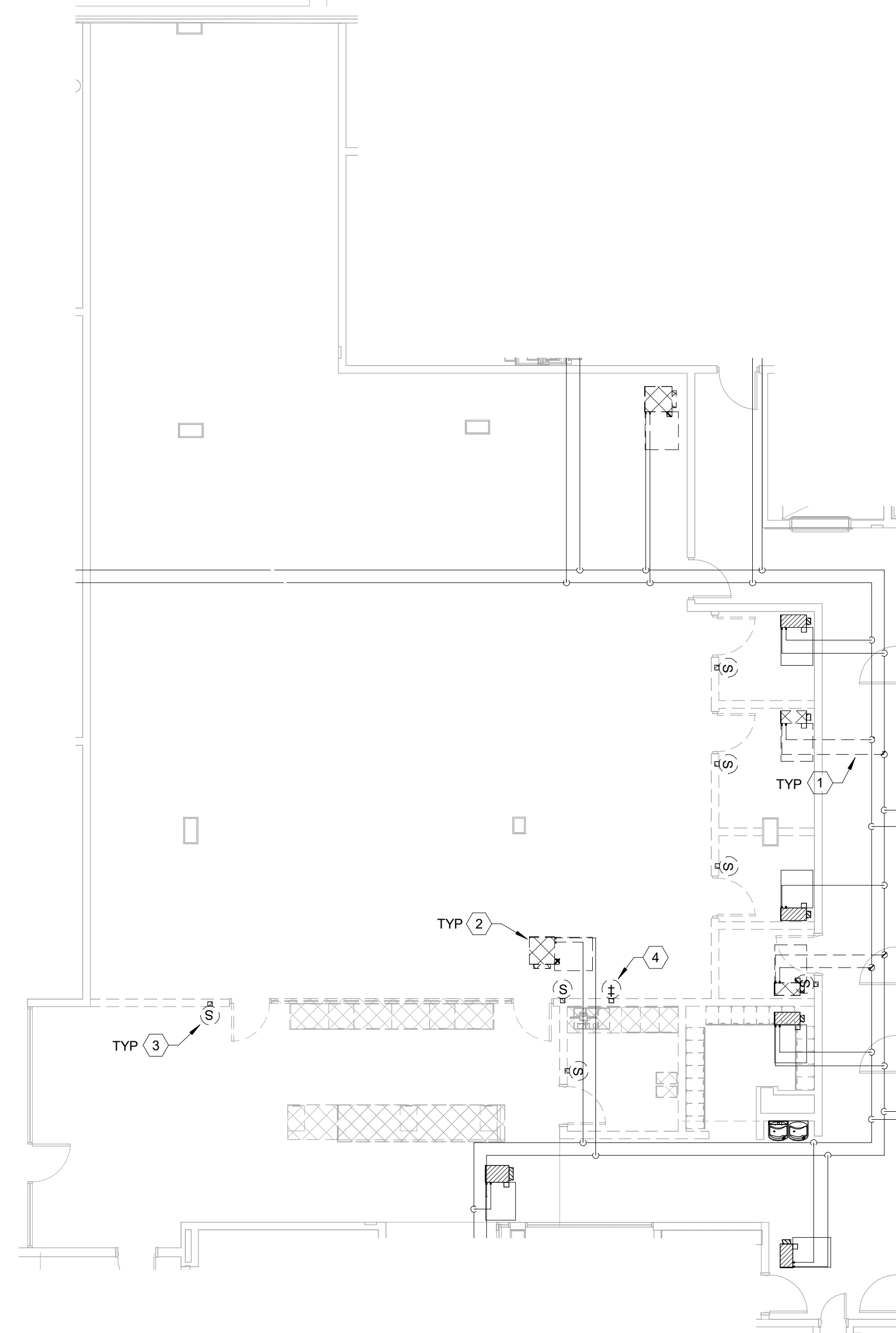


NOTES:
1. INSTALL VALVES AS CLOSE TO COIL AS POSSIBLE.
2. VALVE SHALL BE INSTALLED WITHIN 2'-0" OF VALVE .

2 WAY REHEAT COIL PIPING DIAGRAM
SCALE — NTS



N1864 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0" **2**



N1864 MECHANICAL PIPING DEMOLITION PLAN
SCALE: 1/8" = 1'-0" **1**

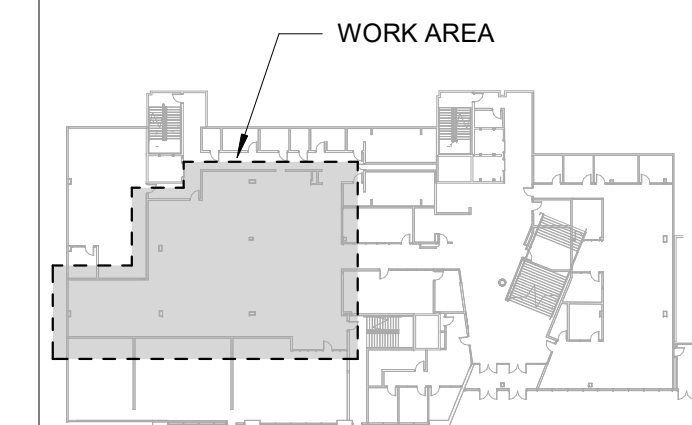
REFERENCE NOTES

- REMOVE EXISTING PIPING AS SHOWN. BACK TO ACTIVE MAINS AND CAP. FIELD VERIFY EXISTING CONDITIONS.
- REMOVE EXISTING VAV BOX, SALVAGE, AND RETURN TO BYU AC SHOP.
- REMOVE EXISTING THERMOSTAT, SALVAGE AND RETURN TO BYU AC SHOP.
- REMOVE EXISTING CO2 SENSOR, SALVAGE AND RETURN TO BYU AC SHOP.
- CONNECT TO EXISTING PIPING. FIELD VERIFY EXISTING CONDITIONS.
- INSTALL THERMOSTAT. COORDINATE EXACT PLACEMENT WITH ARCHITECTURAL.
- INSTALL CO2 SENSOR. COORDINATE EXACT PLACEMENT WITH ARCHITECTURAL.

GENERAL NOTES

- ALL NEW OR REPAIRED PIPING SHALL BE INSULATED WITH 1" THICK, SNAP-ON PIPE INSULATION WITH A PVC VAPOR JACKET. FURNISH & INSTALL A PVC JACKET ON ALL FITTINGS.
- INSTALL DIELECTRIC UNIONS AT ALL NEW CONNECTIONS BETWEEN NEW COPPER PIPES AND EXISTING GALVANIZED STEEL PIPING.
- PROVIDE AVERAGING THERMOSTATS WHERE A SINGLE VAV BOX IS CONNECTED TO MULTIPLE SENSORS.

LOCATION PLAN



HCEB — LEVEL 1



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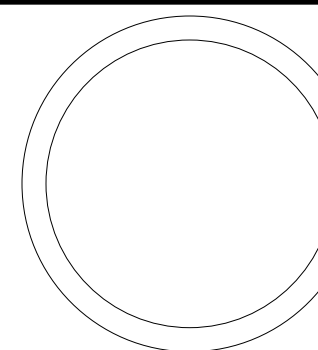
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DRAWN BY: Author

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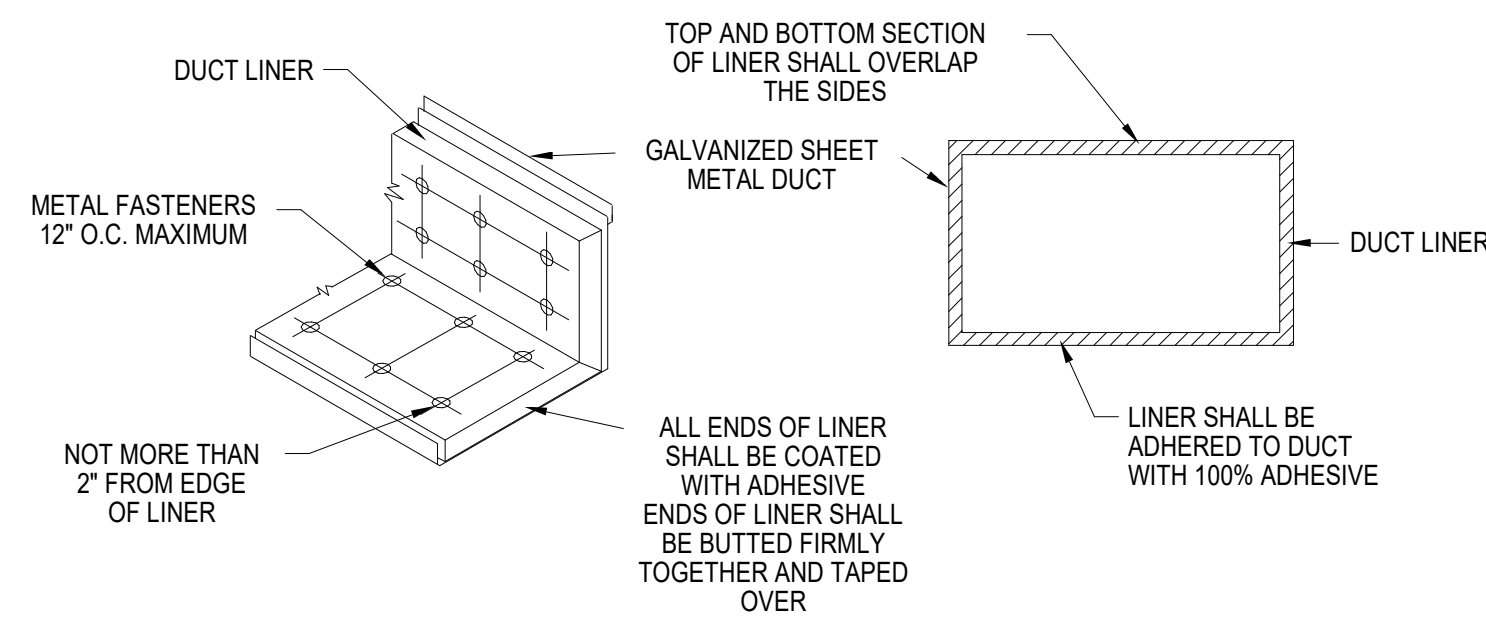


MECHANICAL PIPING PLAN

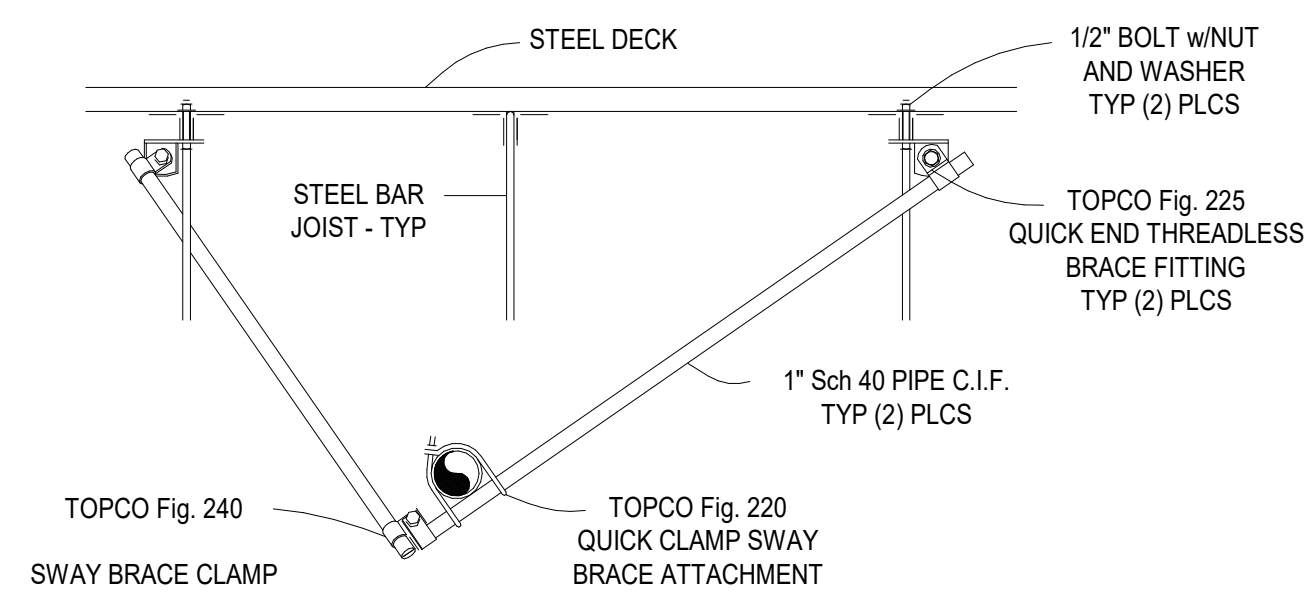
WORK ORDER & SHEET NO.

M2
N1864

CONSTRUCTION DOCS — CONTRACT

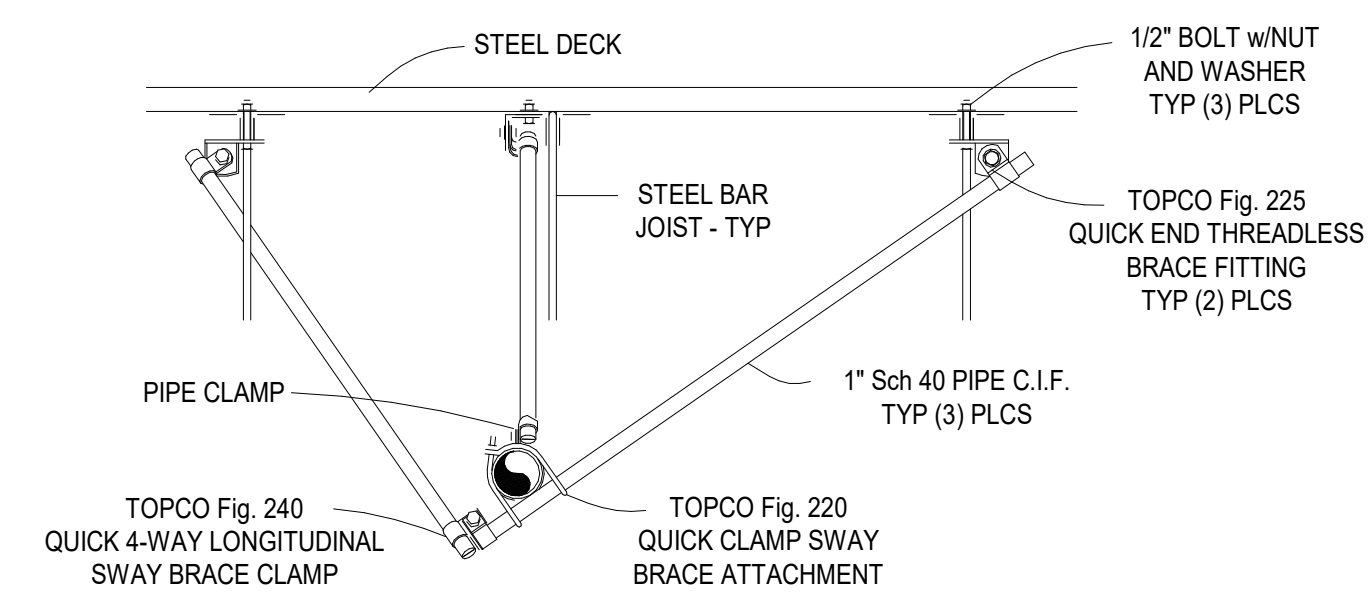


DUCT LINER INSTALLATION DETAIL
SCALE: NTS



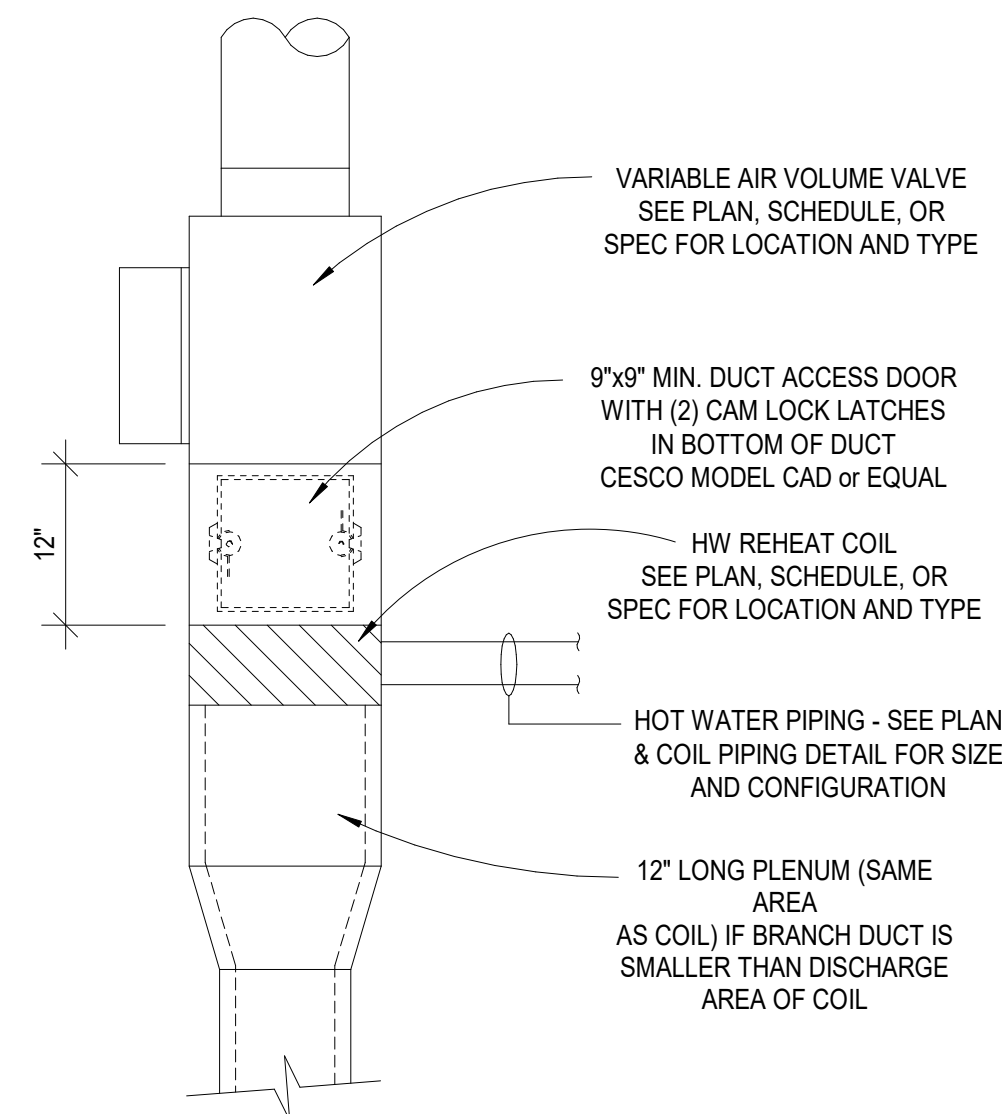
2-WAY SWAY BRACING DETAIL
SCALE: NTS

NOTE: DETAIL SHOWN IS FOR STEEL BAR JOIST CEILING SUPPORT SYSTEM. FOR OTHER TYPES OF CEILING SUPPORT SYSTEMS, USE APPROPRIATE ANCHORS AND BRACE FITTINGS.

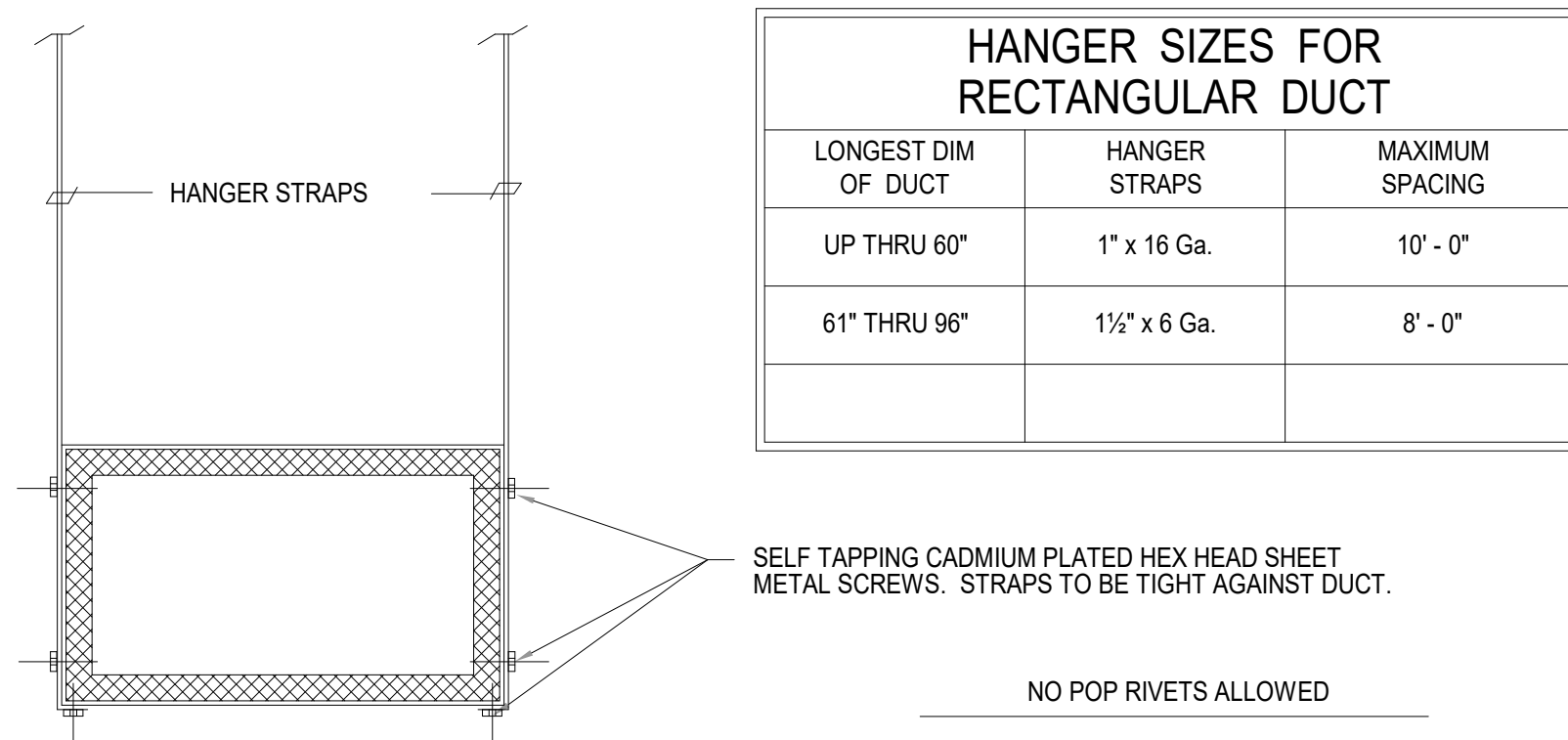


4-WAY SWAY BRACING DETAIL
SCALE: NTS

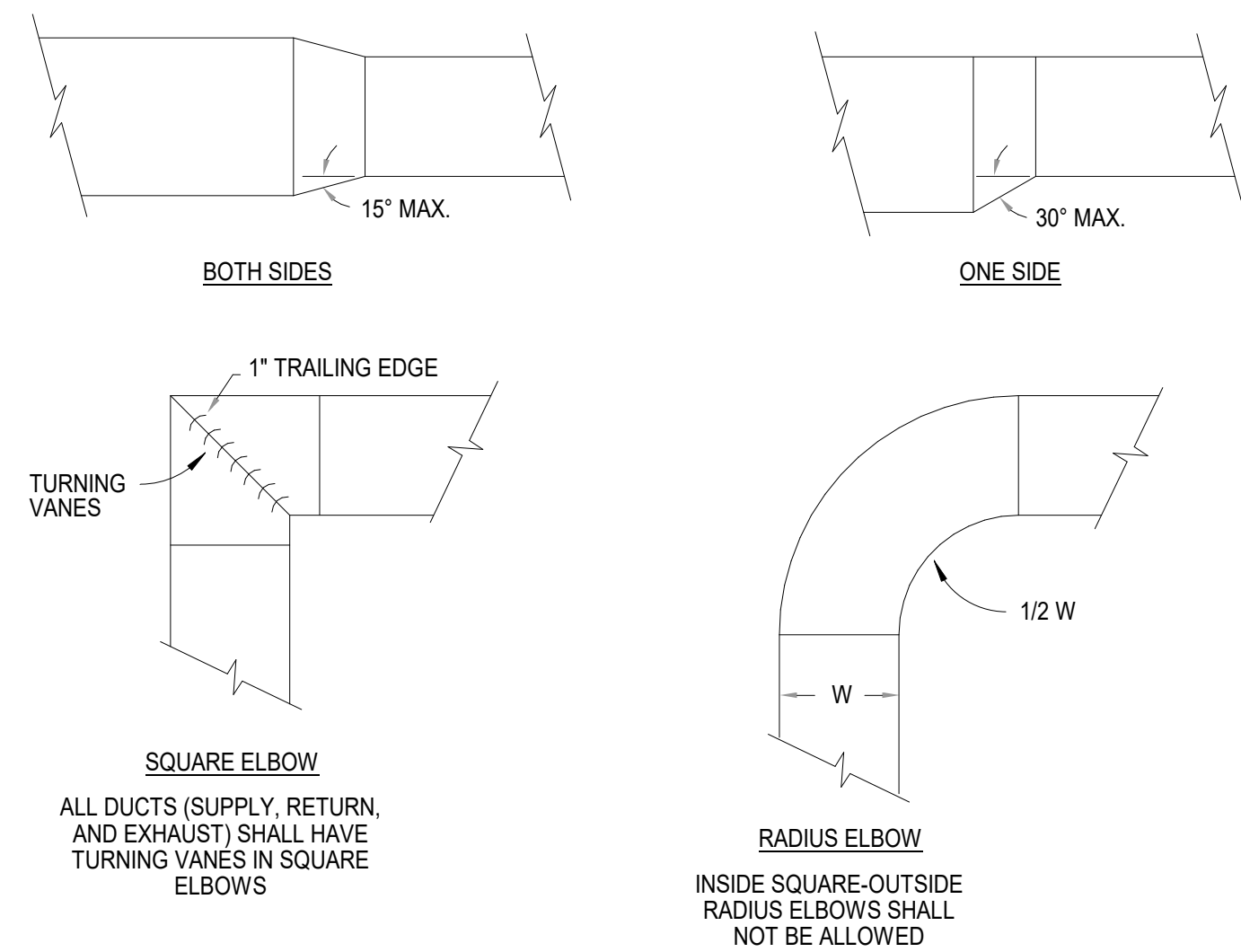
NOTE: DETAIL SHOWN IS FOR STEEL BAR JOIST CEILING SUPPORT SYSTEM. FOR OTHER TYPES OF CEILING SUPPORT SYSTEMS, USE APPROPRIATE ANCHORS AND BRACE FITTINGS.



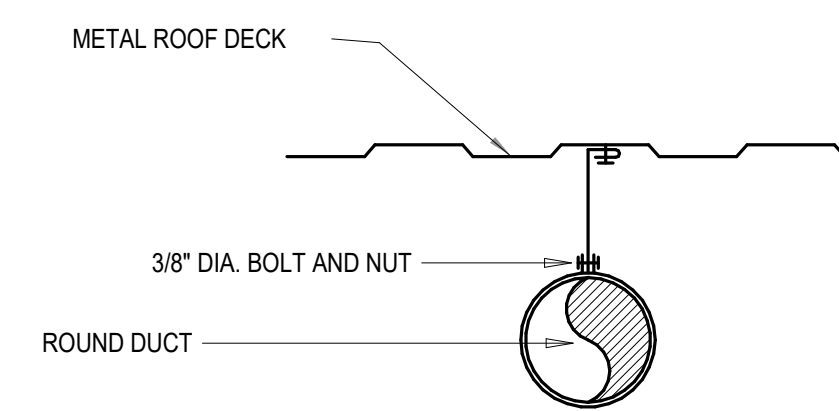
VAV BOX w/REHEAT COIL DETAIL
SCALE: NTS



DUCT STRAP HANGER DETAIL
SCALE: NTS

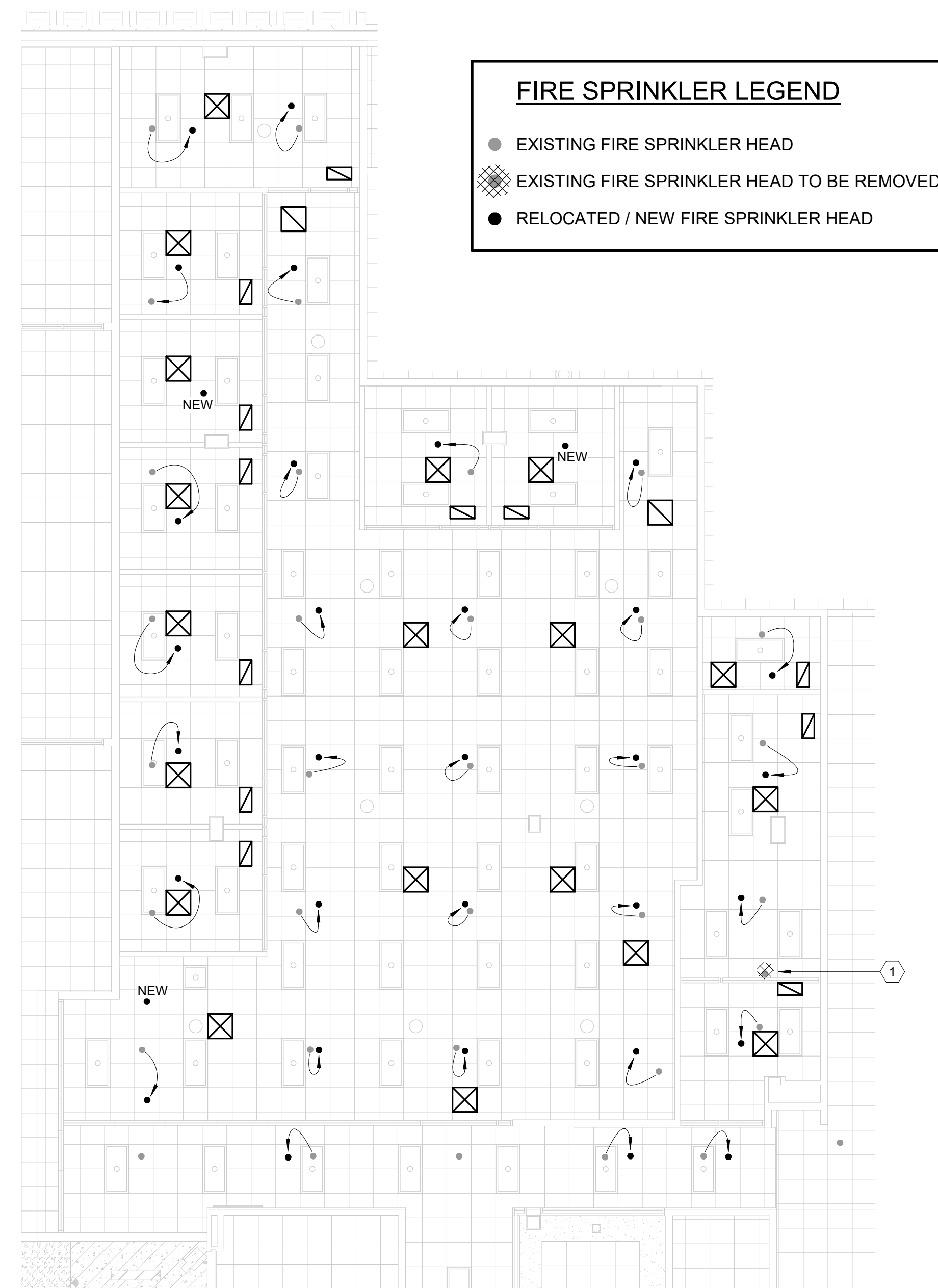


RECTANGULAR DUCT FITTINGS
SCALE: NTS



NOTE:
USE SPECIFIED SPACING AND NOT LESS THAN ONE SUPPORT PER BRANCH.

ROUND DUCT SUPPORT DETAIL
SCALE: NTS



REFERENCE NOTES

- REMOVE EXISTING FIRE SPRINKLER HEAD.

GENERAL NOTES

- COORDINATE ALL DIFFUSER LOCATIONS WITH LIGHTING LAYOUT.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL DIFFUSERS, GRILLES, FIRE SPRINKLERS, ETC.
- ALL NEW FIRE SPRINKLER HEADS IN OFFICES WITH LAY-IN CEILINGS SHALL BE CONCEALED TYPE WITH A FRANGIBLE GLASS BULB AND A WHITE COVER PLATE ASSEMBLY.
- INSTALL DIELECTRIC UNIONS AT ALL NEW CONNECTIONS BETWEEN NEW COPPER PIPES AND EXISTING GALVANIZED STEEL PIPING.



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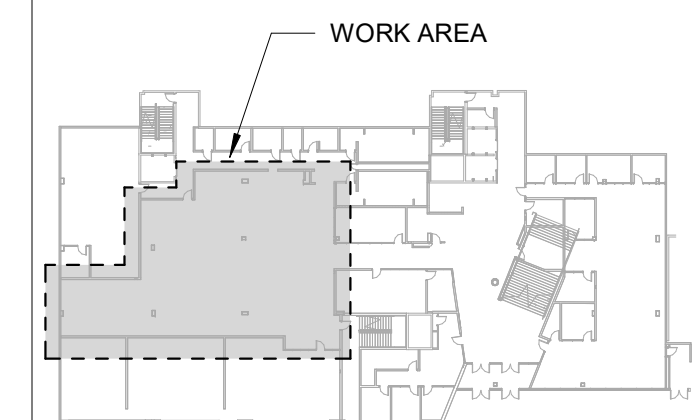
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LOCATION PLAN

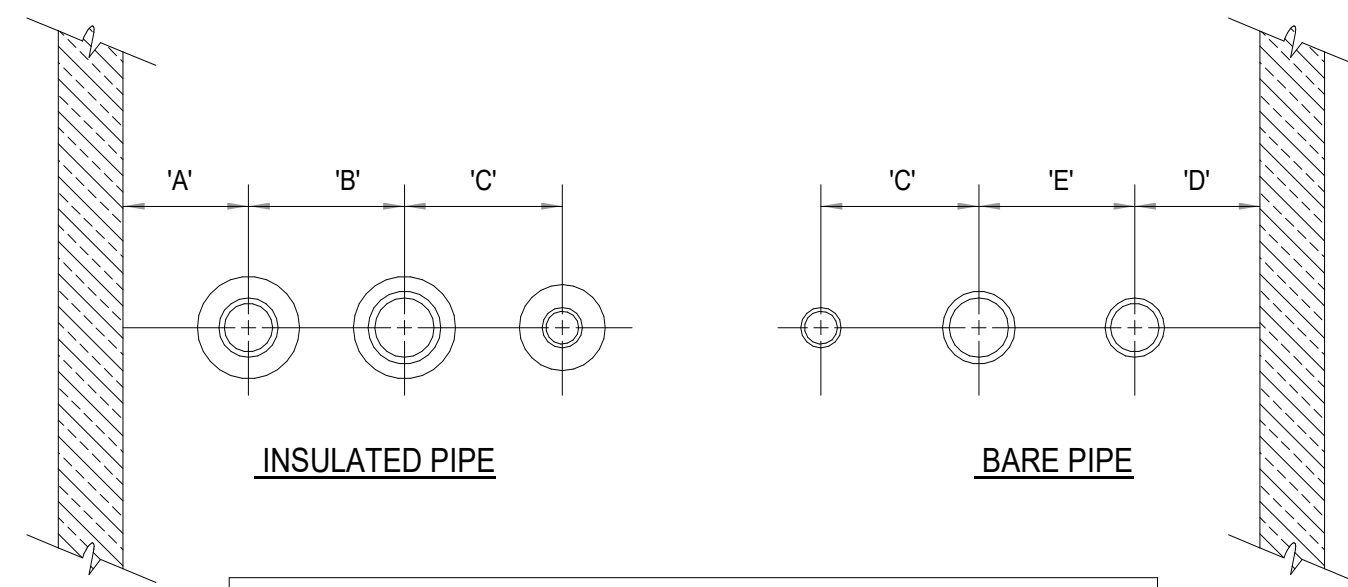
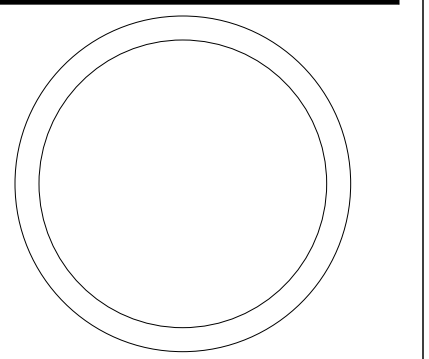


MECHANICAL REFLECTED CEILING PLAN

WORK ORDER & SHEET NO.

**M3
N1864**

CONSTRUCTION DOCS - CONTRACT

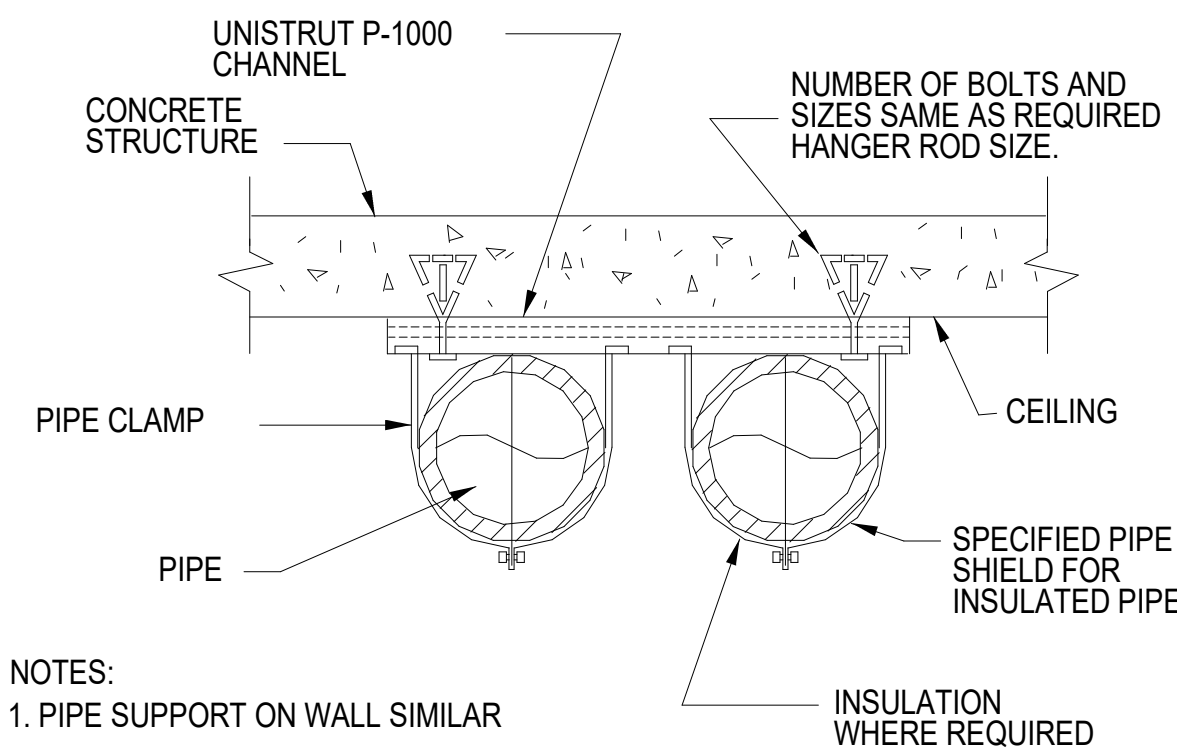


MINIMUM CENTERLINE SPACING				
NOMINAL PIPE SIZE	DIMENSION 'A'	DIMENSION 'B'	DIMENSION 'C'	DIMENSION 'D'
1/2" - 3/4"	5"	6"	3-1/2"	3"
1", 1-1/4", 1-1/2"	6"	8"	4"	4"
2", 2-1/2"	7"	10"	4-1/2"	5"
3", 3-1/2"	7-1/2"	11"	5"	6"
4"	8"	12"	5-1/2"	7"
5"	8-1/2"	13"	6"	8"
6"	9"	14"	6-1/2"	9"
8"	10"	16"	7-1/2"	11"

- NOTES:**
- DIM "C": WHERE PIPES OF DIFFERENT SIZE ARE RUN PARALLEL, USE ONE-HALF OF THE DIMENSION TABULATED FOR THE LARGER PIPE, PLUS ONE-HALF OF THE DIMENSION TABULATED FOR THE SMALLER PIPE, TO DETERMINE THE MINIMUM CENTER LINE SPACING BETWEEN ADJACENT RUNS.
 - TABLE APPLIES ONLY TO PIPING RUNS WHICH ARE NOT DIMENSIONED ON THE PIPING PLANS.

PIPE SPACING DETAIL

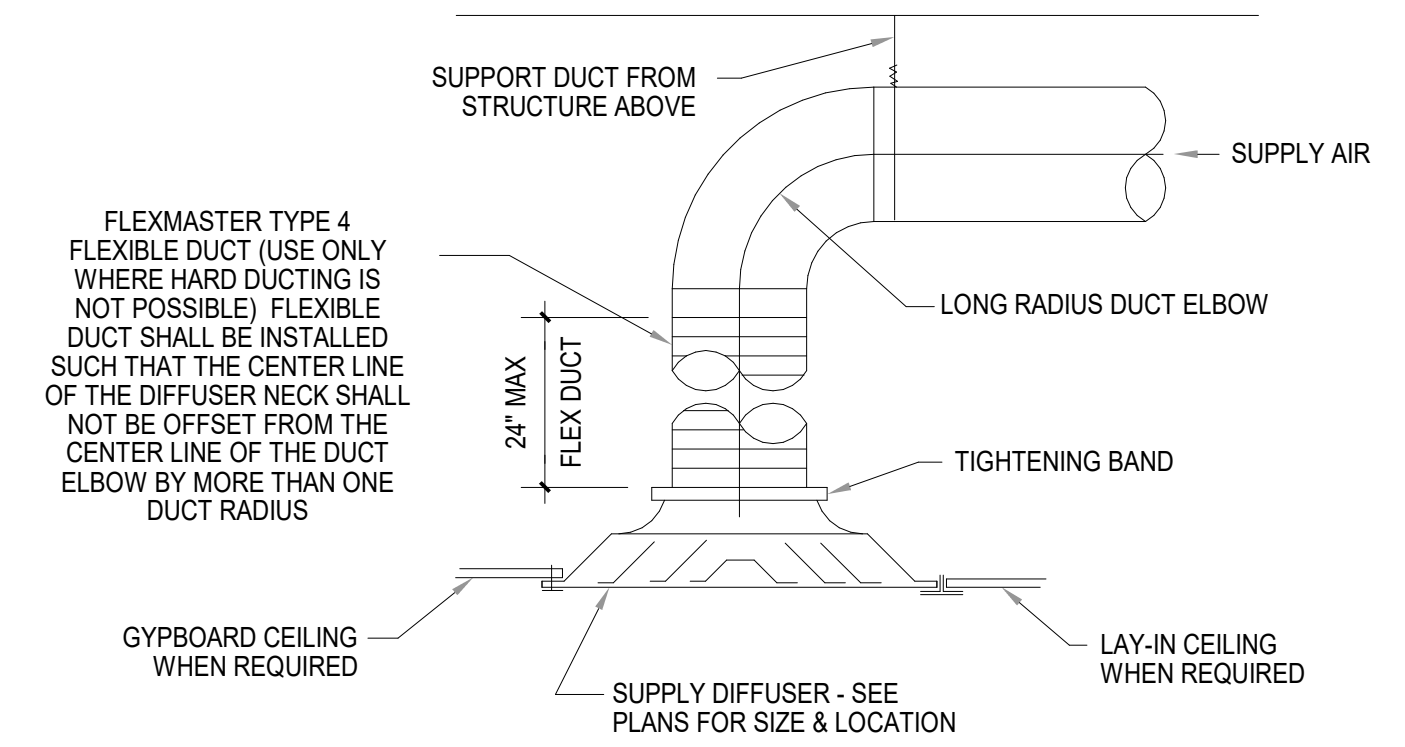
SCALE _____ NTS



- NOTES:**
- PIPE SUPPORT ON WALL SIMILAR

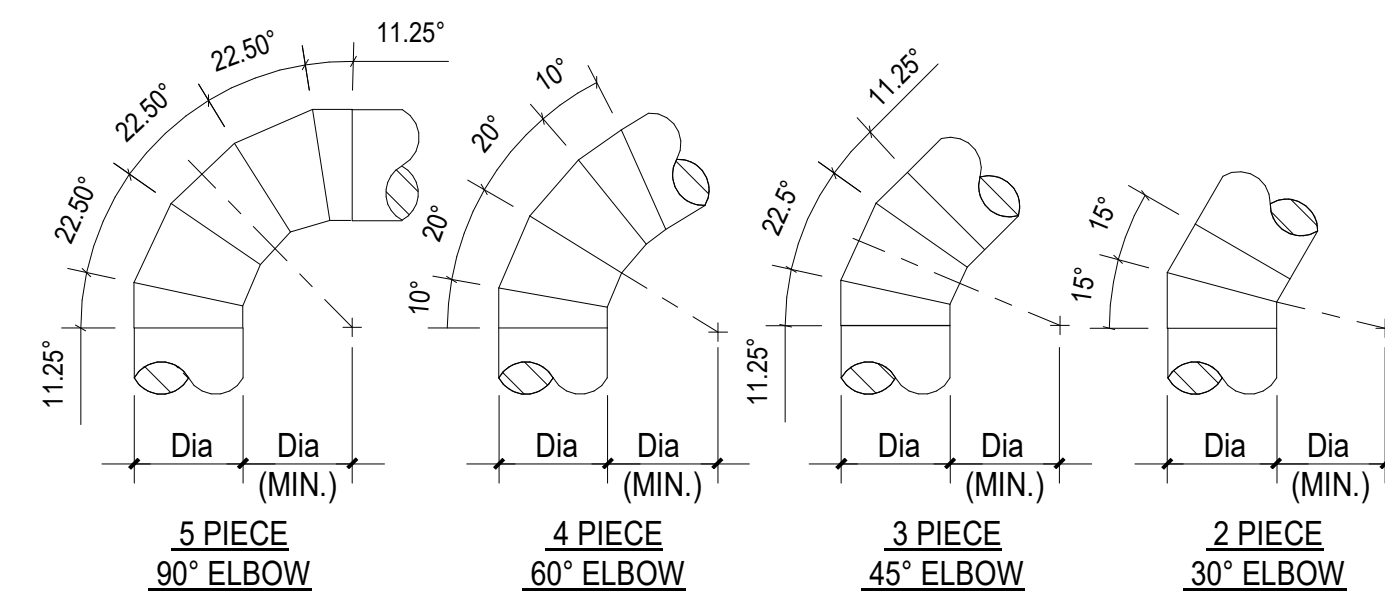
CEILING PIPE SUPPORT DETAIL

SCALE _____ NTS



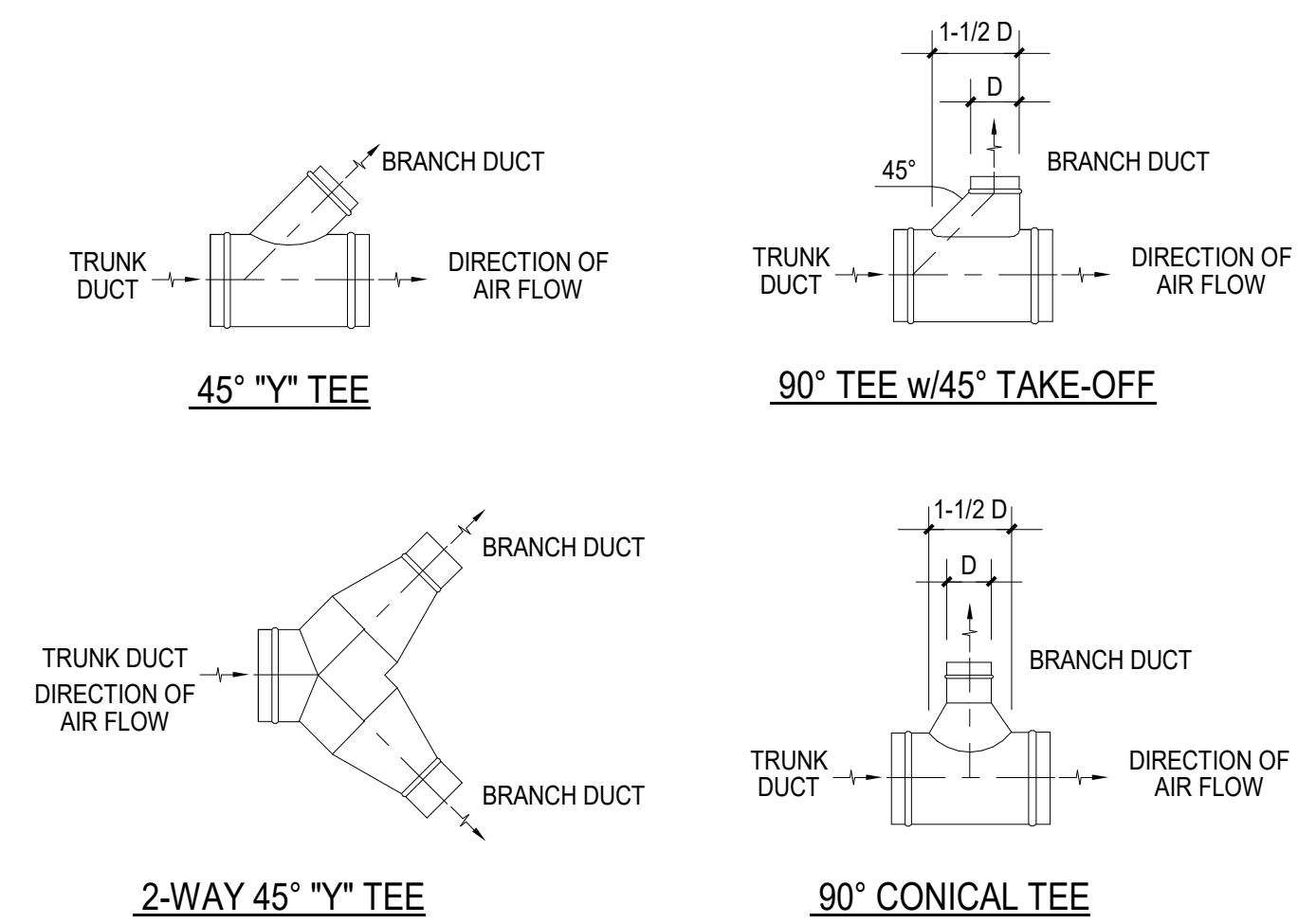
ROUND NECK DIFFUSER CONN. DETAIL

SCALE _____ NTS



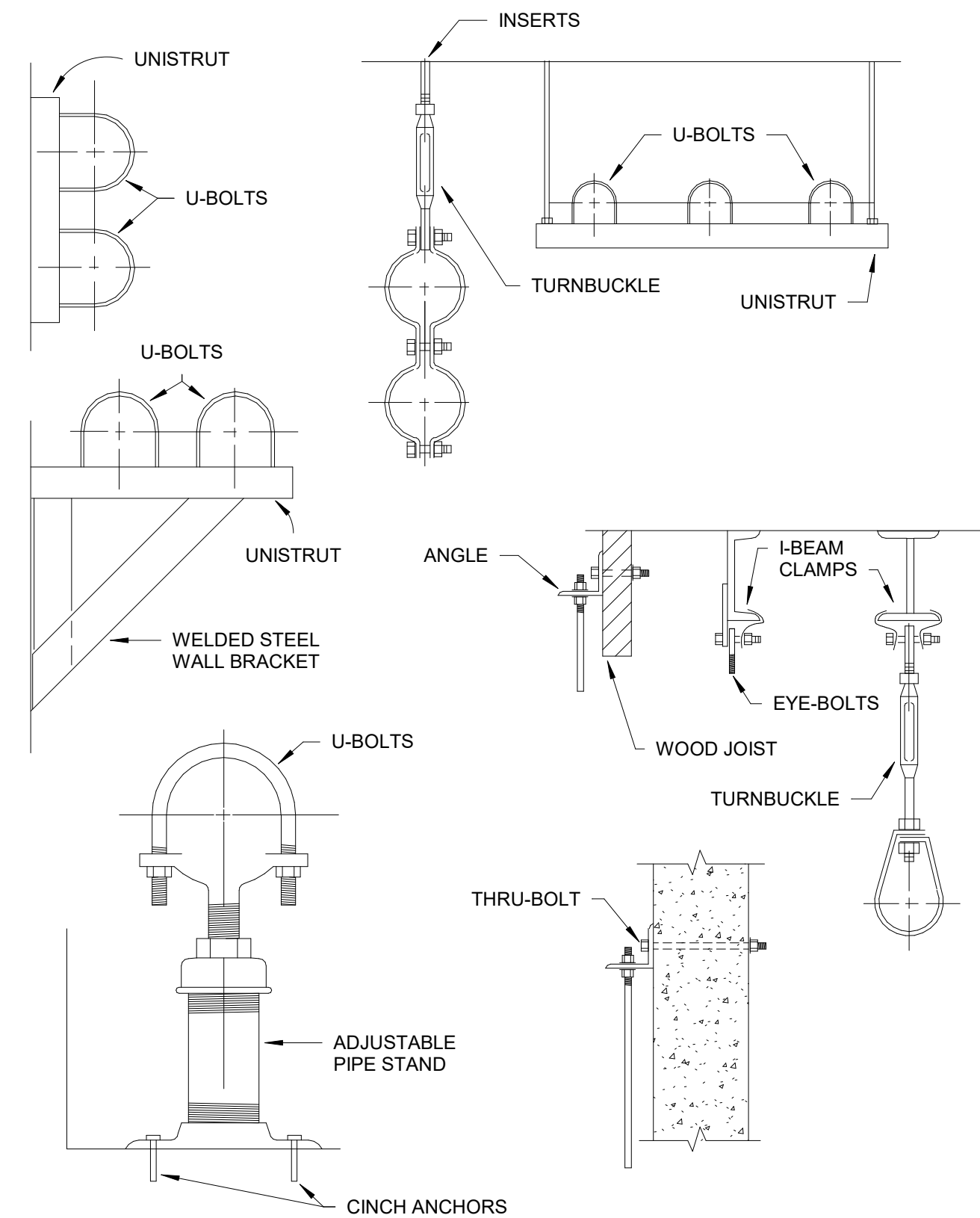
ROUND DUCT ELBOW DETAILS

SCALE: NTS



ROUND DUCT BRANCH TAKE-OFF DETAILS

SCALE: NTS



TYPICAL PIPE SUPPORT DETAILS

SCALE _____ NTS



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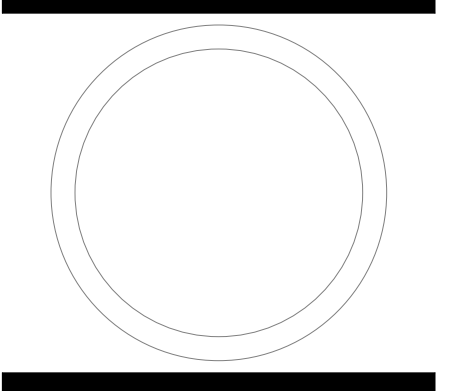
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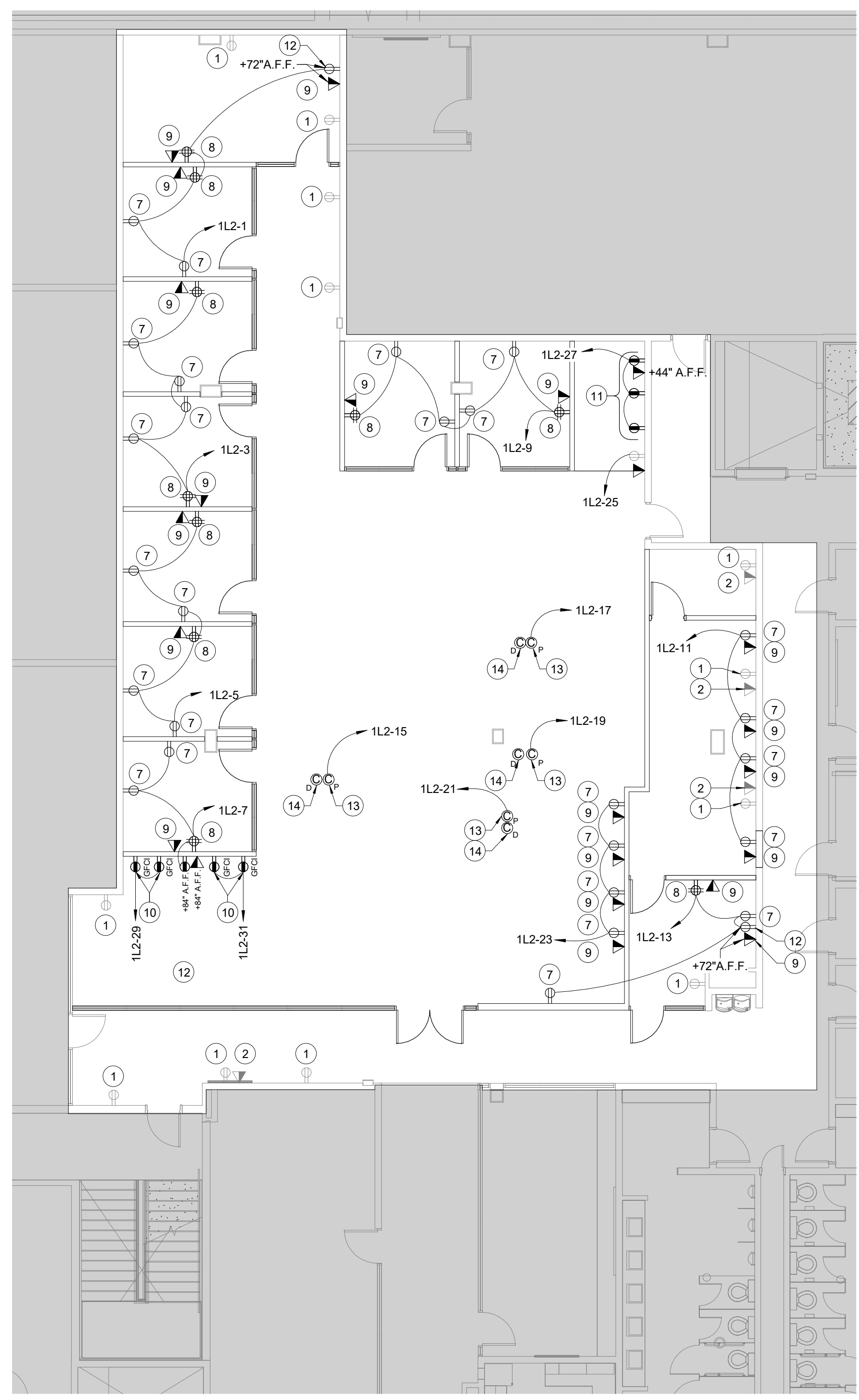
DEMOLITION AND
 NEW ELECTRICAL
 PLAN

WORK ORDER & SHEET NO.

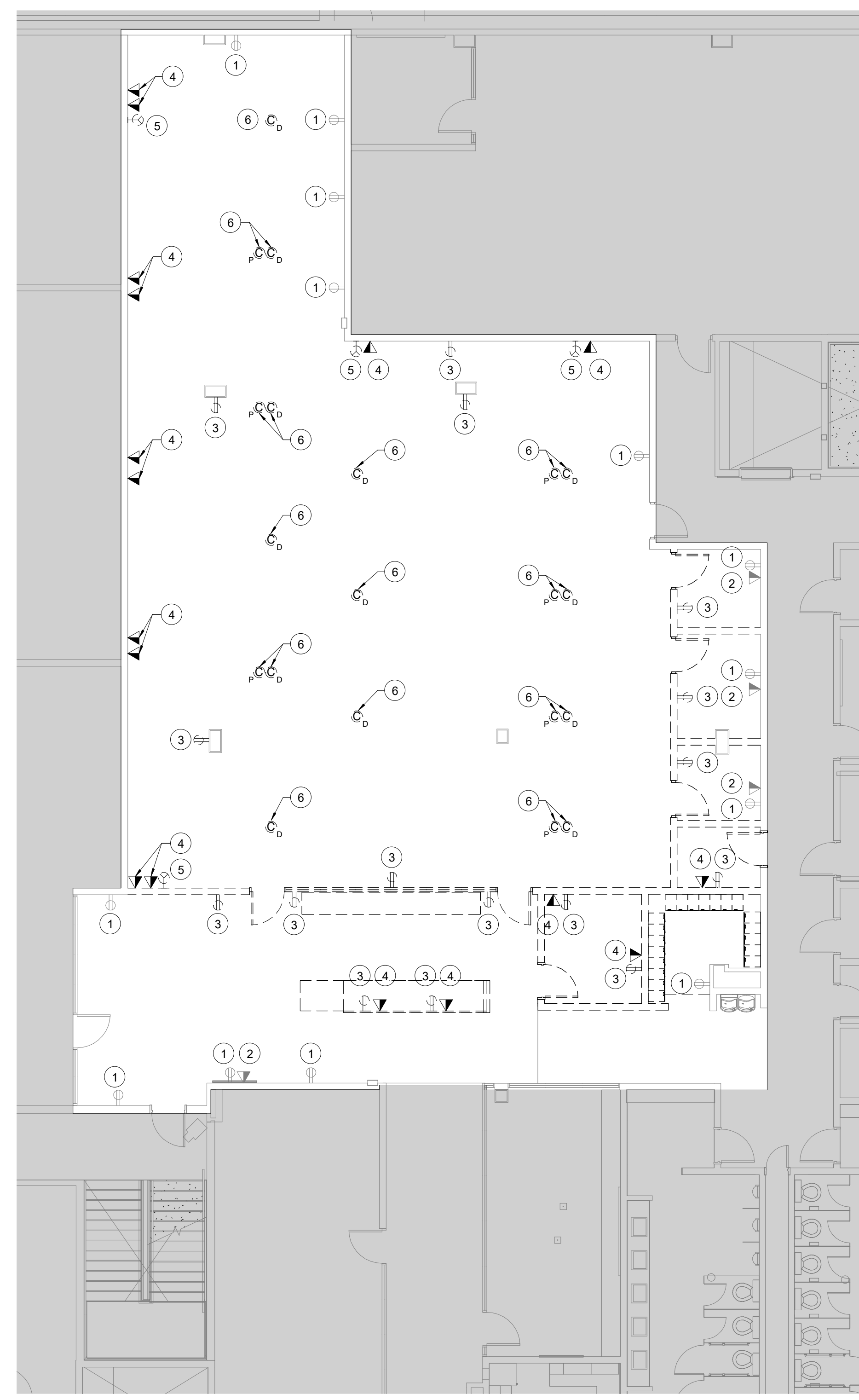
**N1864
 E1.0**

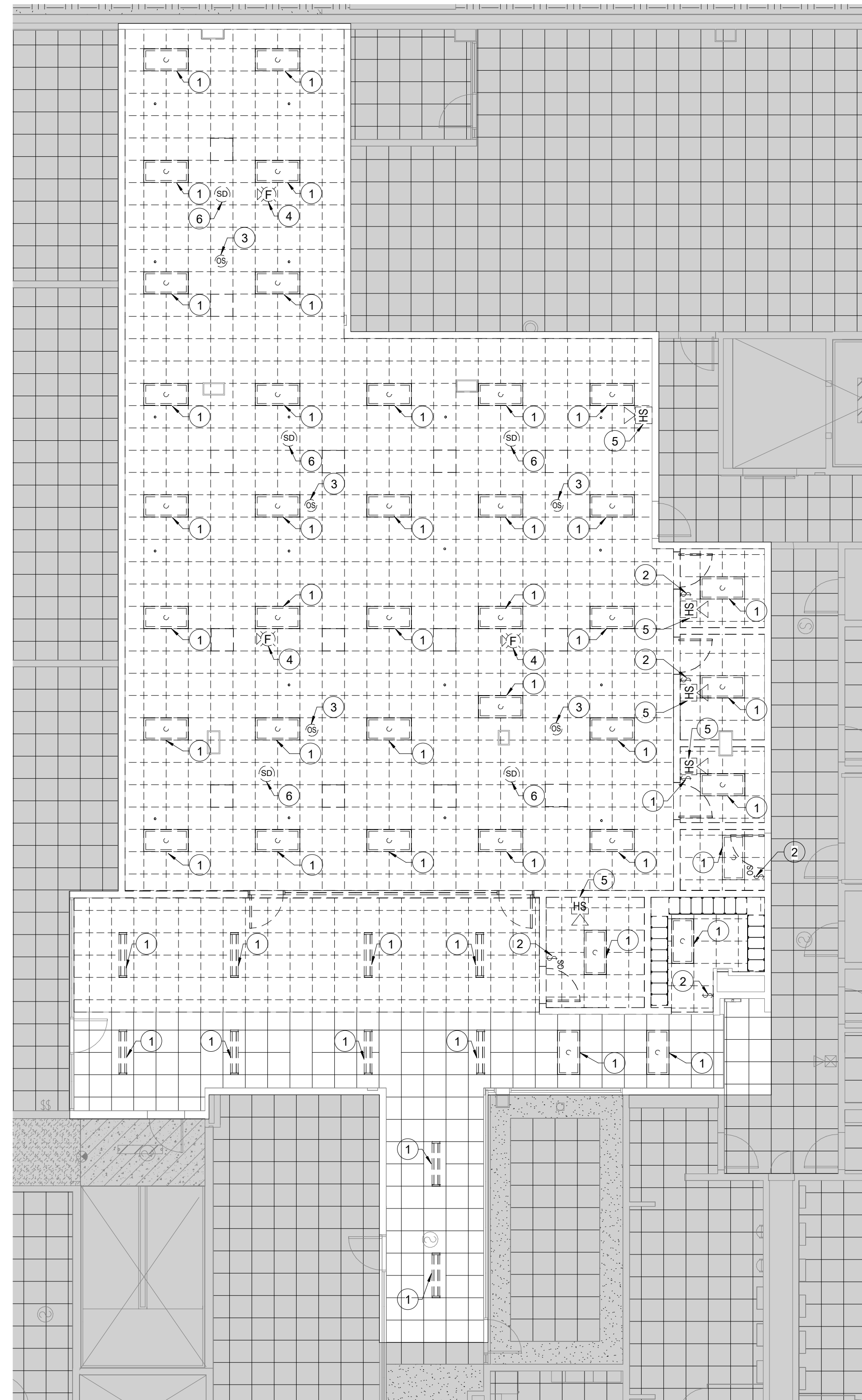
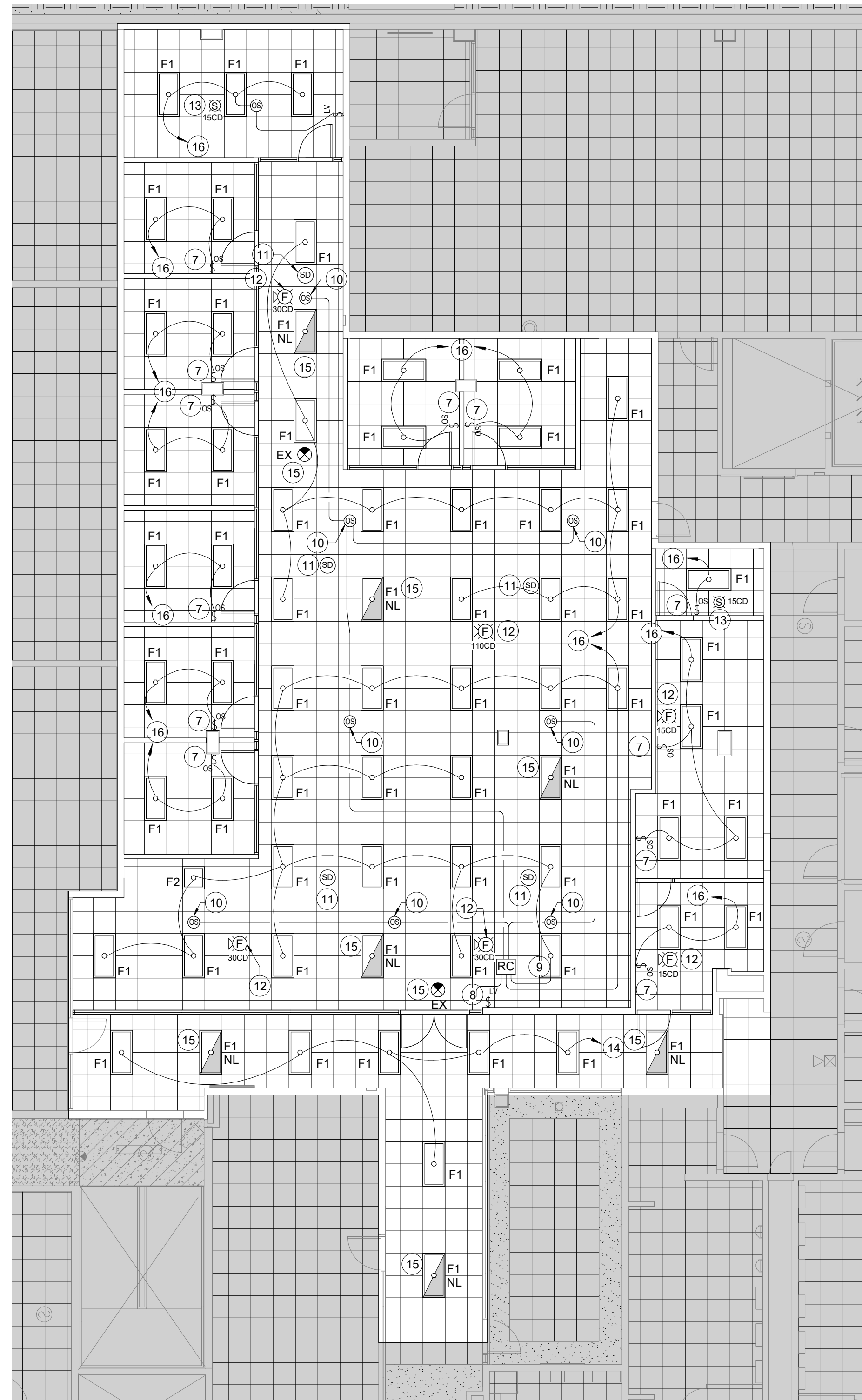
REFERENCE NOTES

- EXISTING RECEPTACLE TO REMAIN. SHOWN FOR REFERENCE PURPOSES ONLY.
- EXISTING DATA JACK TO REMAIN. SHOWN FOR REFERENCE PURPOSES ONLY.
- REMOVE EXISTING RECEPTACLE AND ALL ASSOCIATED ABANDONED CIRCUITING BACK TO SOURCE COMPLETE OR NEAREST ELECTRICAL DEVICE TO REMAIN. MAINTAIN CIRCUIT INTEGRITY TO ANY DOWN STREAM ELECTRICAL DEVICES TO REMAIN.
- REMOVE EXISTING DATA JACK AND ASSOCIATED J-BOX AND CONDUIT BACK TO TO SOURCE COMPLETE.
- REMOVE EXISTING WALL MOUNTED FURNITURE CONNECTION AND ALL ASSOCIATED CIRCUITING BACK TO SOURCE COMPLETE.
- REMOVE EXISTING CIRCUITING OR DATA CABLING FORM FLOOR CONDUIT BACK TO SOURCE COMPLETE. CAP EXISTING POWER AND DATA FLOOR CONDUITS WITH THREADED KNOCK OUT CAP.
- INSTALL NEW RECEPTACLE. EXTEND A 3/4" W/ (2)#12, (1)#12 GND., THHN, CU. FROM RECEPTACLE TO CIRCUIT INDICATED ON DRAWING.
- INSTALL NEW QUAD RECEPTACLE. EXTEND A 3/4" W/ (2)#12, (1)#12 GND., THHN, CU., FROM RECEPTACLE TO CIRCUIT INDICATED ON DRAWING.
- INSTALL NEW DATA LOCATION. SEE DETAIL 2 ON SHEET E5.2 FOR INSTALLATION DETAIL.
- INSTALL NEW GFCI RECEPTACLE AT 6" TO CENTER OF RECEPTACLE ABOVE COUNTER TOP OR BACK SPLASH. EXTEND A 3/4" C WITH (2)#12, (1)#12 GND., THHN, CU. FROM THE RECEPTACLE TO A 20A CIRCUIT IN NEAREST PANEL.
- INSTALL NEW RECEPTACLE AT 6" TO CENTER OF RECEPTACLE ABOVE COUNTER TOP OR BACK SPLASH. EXTEND A 3/4" C WITH (2)#12, (1)#12 GND., THHN, CU. FROM THE RECEPTACLE TO A 20A CIRCUIT IN NEAREST PANEL.
- INSTALL NEW TVSS RECEPTACLE AT HEIGHT INDICATED ON DRAWING. PROVIDE 3/4" WITH (2)#12, (1)#12 GND., THHN, CU. FROM RECEPTACLE TO CIRCUIT INDICATED ON DRAWINGS
- INSTALL NEW POWER CONDUIT THROUGH FLOOR FOR FURNITURE CONNECTION. SEE DETAIL 1 ON SHEET E5.2 FOR INSTALLATION DIAGRAM. VERIFY EXACT LOCATION WITH FURNITURE INSTALLER PRIOR TO CORE DRILL.
- INSTALL NEW DATA CONDUIT THROUGH FLOOR. SEE DETAIL 3 ON SHEET E5.2 FOR INSTALLATION DIAGRAM. VERIFY EXACT LOCATION WITH FURNITURE INSTALLER PRIOR TO CORE DRILL.



N1864 NEW ELECTRICAL PLAN
 SCALE: 1/8" = 1'-0" **2**





REFERENCE NOTES

- 1 REMOVE EXISTING LIGHT FIXTURE. PREPARE EXISTING LIGHTING CIRCUIT FOR CONNECTION TO NEW LIGHT FIXTURE AND CONTROLS.
- 2 REMOVE EXISTING LIGHT SWITCH AND ALL ASSOCIATED CIRCUITING BACK TO SOURCE COMPLETE.
- 3 REMOVE EXISTING CEILING MOUNTED OCCUPANCY SENSOR AND ALL ASSOCIATED CIRCUITING BACK TO SOURCE COMPLETE.
- 4 REMOVE EXISTING CEILING MOUNTED FIRE ALARM HORN/STROBE DEVICE AND ALL ASSOCIATED CIRCUITING BACK TO FIRE ALARM LOOP.
- 5 REMOVE EXISTING WALL MOUNTED FIRE ALARM HORN/STROBE DEVICE AND ALL ASSOCIATED CIRCUITING BACK TO FIRE ALARM LOOP.
- 6 REMOVE EXISTING CEILING MOUNTED SMOKE DETECTOR AND ALL ASSOCIATED CIRCUITING BACK TO FIRE ALARM LOOP.
- 7 INSTALL NEW WALL MOUNTED OCCUPANCY SENSOR LIGHT SWITCH. SEE DETAIL 9 ON SHEET E5.0 FOR WIRING DIAGRAM AND SWITCH TYPE.
- 8 INSTALL NEW LOW VOLTAGE LIGHT SWITCH. SEE DETAIL 8 ON SHEET E5.0 FOR WIRING DIAGRAM AND SWITCH TYPE.
- 9 INSTALL NEW ROOM CONTROLLER ABOVE ACCESSIBLE CEILING. SEE DETAIL 8 ON SHEET E5.0 FOR WIRING DIAGRAM AND ROOM CONTROLLER TYPE.
- 10 INSTALL NEW CEILING MOUNTED OCCUPANCY SENSOR. SEE DETAIL 8 ON SHEET E5.0 FOR WIRING DIAGRAM AND SENSOR TYPE.
- 11 INSTALL NEW CEILING MOUNTED SMOKE DETECTOR. CONNECT TO EXISTING FIRE ALARM LOOP. PROVIDE ALL NECESSARY WIRE AND CONDUIT AS REQUIRED FOR A COMPLETE INSTALLATION.
- 12 INSTALL NEW ADA COMPLIANT CEILING MOUNTED FIRE ALARM HORN/STROBE DEVICE. CONNECT TO EXISTING FIRE ALARM LOOP. PROVIDE ALL NECESSARY WIRE AND CONDUIT AS REQUIRED FOR A COMPLETE INSTALLATION.
- 13 INSTALL ADA COMPLIANT CEILING MOUNTED FIRE ALARM STROBE LIGHT. 15CD. CONNECT TO EXISTING FIRE ALARM LOOP. PROVIDE ALL NECESSARY WIRE AND CONDUIT AS REQUIRED FOR A COMPLETE INSTALLATION.
- 14 CONNECT TO CORRIDOR LIGHTING CIRCUIT AND CONTROLS.
- 15 CONNECT EMERGENCY LIGHT FIXTURE AND EXIT SIGN TO NEAREST UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
- 16 CONNECT TO EXISTING UNSWITCHED LIGHTING CIRCUIT SERVING THIS SPACE. EXTEND A 3/4" W/ (2) #12, (1) #12, GND., THHN, CU, FROM THE LIGHT FIXTURE TO THE EXISTING UNSWITCHED LIGHTING CIRCUIT. AS REQUIRED FOR A COMPLETE INSTALLATION.

GENERAL NOTES

1. IF THERE ARE ANY DESIGN OR BUDGET PROBLEMS WITH THIS PROJECT, CONTACT THE DESIGNER ABOVE AS SOON AS POSSIBLE.
2. FOLLOW THE DESIGN AS PER THESE STANDARD PLANS. ANY CHANGES, ADDITIONS, OR ADJUSTMENTS SHALL BE REVIEWED WITH THE PERSON WHOSE ENGINEERING STAMP IS HERE ATTACHED.
3. ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS SHALL BE FIRE CAULKED AS REQUIRED BY CODE.

LIGHTING FIXTURE SCHEDULE									
FIXTURE NUMBER	MANUFACTURER	FIXTURE CATALOG NUMBER	LAMPS		FIXTURE		FIXTURE DESCRIPTION	REMARKS	
			TYPE	QTY.	VOLTS	WATTS			MOUNTING
F1	LITHONIA SLG BLG SYLVANIA COOPER	CPX 2X4 AL08 SWW7 TPS2435/45/55G2FSK LPX-24-CP4 PANELF385045UNV8699 24CGTS-L3C3	LED	1	UNV	50	CEILING TROFFER	2X4 LED FLAT PANEL TROFFER	SELECTABLE FIXTURE SETTINGS: OUTPUT - MEDIUM COLOR TEMP. - 4000K
F2	PHILIPS LITHONIA METALUX SLG	25BP3040L8CS-2-UN3-DIM CPX 2X2 AL07 SWW7 M4 22CTGS-L3C3 TPS 22 35 G1 FSK	LED	1	UNIV	37.3W	RECESSED GRID	2X2 LED FLAT PANEL RECESSED GRID TROFFER	SELECTABLE FIXTURE SETTINGS: OUTPUT - MEDIUM COLOR TEMP. - 4000K
EX	DUAL LITE	SESGW (SINGLE FACE) SESGW (DOUBLE FACE)	LED	2	UNIV	2.1	WALL / CEILING	WALL OR CEILING MOUNTED EXIT SIGN WITH SINGLE OR DOUBLE FACE LETTERING AND BREAK OUT CHEVRONS FOR DIRECTION ARROWS.	

N1864 NEW LIGHTING PLAN
SCALE: 1/8" = 1'-0" **2**

N1864 DEMOLITION LIGHTING PLAN
SCALE: 1/8" = 1'-0" **1**



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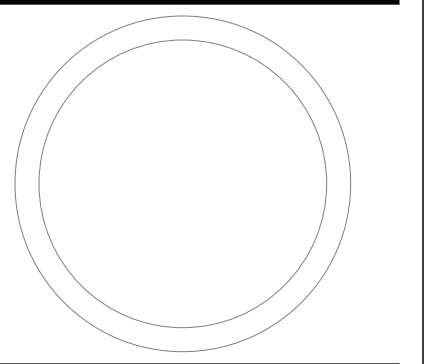
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CODE CHECK:
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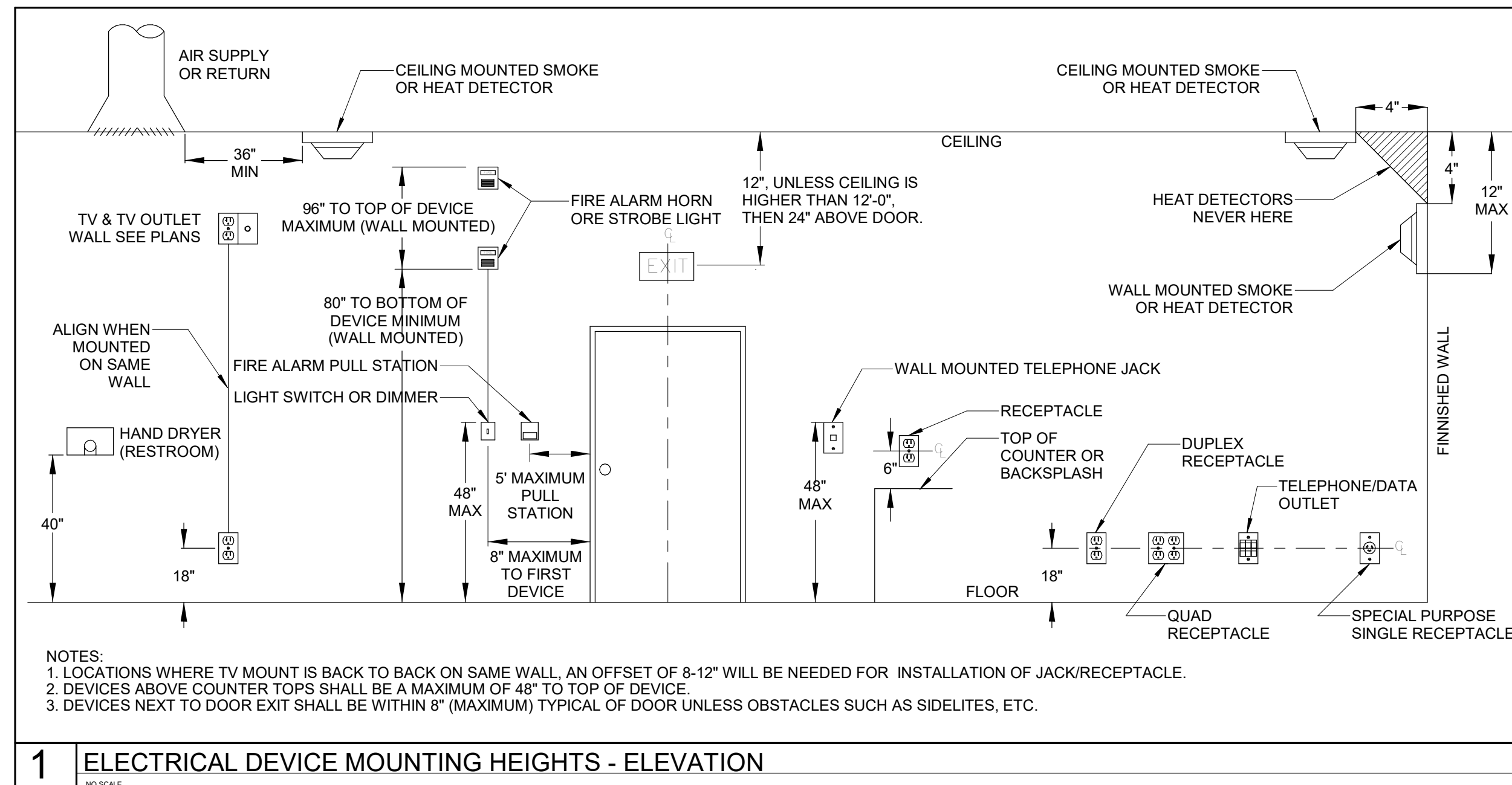
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CONTINUING EDUCATION



**DEMOLITION AND
NEW LIGHTING
PLAN**

WORK ORDER & SHEET NO.

**N1864
E2.0**



1 ELECTRICAL DEVICE MOUNTING HEIGHTS - ELEVATION

DEVICES AND PATHWAYS

	WIRING SYSTEM CONCEALED IN WALL OR CEILING.
	BRANCH CIRCUIT HOMERUN TO PANEL.
	JUNCTION BOX WITH CONNECTION TO EQUIPMENT SERVED. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.
	DUPLEX RECEPTACLE, 20 AMP, 120 VOLT (USE 20 AMP FOR SINGLE RECEPTACLE ON A CIRCUIT).
	DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER BACKSPASH, OR AT HEIGHT NOTED.
	QUAD RECEPTACLE. TWO NEMA 5-20R DUPLEX RECEPTACLES.
	GROUND FAULT RECEPTACLE. NEMA 5-20R DUPLEX. ALL RECEPTACLES INSTALLED OUTSIDE, WITHIN 6' OF A SINK OR IN A KITCHEN SHALL BE GFCI.
	DUPLEX RECEPTACLE, 20 AMP, 120 VOLT (USE 20 AMP FOR SINGLE RECEPTACLE ON A CIRCUIT). T.V. RECEPTACLE MOUNTED AT 72" A.F.F. OR AT HEIGHT NOTED ON DRAWING.
	TELEVISION RECEPTACLE, 20 AMP, 120 VOLT (USE 20 AMP FOR SINGLE RECEPTACLE ON A CIRCUIT). MOUNTED AT HEIGHT SPECIFIED BY OIT.
	MODULAR FURNITURE CONNECTION. PROVIDE DOUBLE-GANG BARRIERED J-BOX FOR POWER & TELE/DATA. EXTEND 1-1/4" EC TO ABOVE ACCESSIBLE CEILING FOR TELE/DATA. CONNECT POWER AS INDICATED.
	3/4" CONDUIT PENETRATION THROUGH FLOOR FOR FURNITURE CONNECTION. SEE DETAIL 1 IN SHEET E5.2 FOR DETAILS.
	1" CONDUIT PENETRATION THROUGH FLOOR FOR FURNITURE CONNECTION. SEE DETAIL 1 IN SHEET E5.2 FOR DETAILS.

PANELS, DISCONNECTS

	PANELBOARD. SEE SCHEDULE FOR MOUNTING. TOP OF PANEL AT 6'-6" AFF.
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TELECOMMUNICATIONS

	TELE/DATA OUTLET. 1" EC TO ABOVE NEAREST ACCESSIBLE CEILING FOR J-HOOK SYSTEM OR TO LOCAL CABLE TRAY (WITHIN 6") AS APPLICABLE WITH PULL STRING. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

LIGHTING (SEE FIXTURE SCH.)

	LED GRID TROFFER LIGHT FIXTURE. SEE FIXTURE SCHEDULE. SUSPEND TWO CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.
	LED LINEAR PENDANT LIGHT FIXTURE.
	LED RECESSED DOWN LIGHT FIXTURE.
	LED FIXTURE CONNECTED TO EMERGENCY LIGHTING CIRCUIT. SEE FIXTURE SCHEDULE FOR FIXTURE TYPE. EXIT LIGHT WITH ARROWS AND NUMBERS OF FACES AS INDICATED ON PLANS. CONNECTED TO EMERGENCY LIGHTING CIRCUIT. SEE LIGHTING FIXTURE SCHEDULE.
	SINGLE POLE SWITCH, 20 AMP, 120/277 VOLT.
	THREE WAY SWITCH, 20 AMP, 120/277 VOLT.
	WALL MOUNTED OCCUPANCY SENSOR AND SWITCH WITH DUAL TECHNOLOGY.
	LOW VOLTAGE LIGHT SWITCH.
	CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY.
	CEILING MOUNTED OCCUPANCY SENSOR POWER PACK.
	LIGHTING ROOM CONTROLLER.
	EMERGENCY LIGHTING CONTROLLER MODULE.

FIRE ALARM

	CEILING MOUNTED SMOKE DETECTOR. FA VENDOR PROVIDED.
	ADA COMPLIANT CEILING MOUNTED FIRE ALARM HORN STROBE LIGHT, 15cd, UNLESS OTHERWISE NOTED. WHITE FINISH.**
	ADA COMPLIANT CEILING MOUNTED FIRE ALARM STROBE LIGHT, 15cd, UNLESS OTHERWISE NOTED. WHITE FINISH.
	ADA COMPLIANT WALL MOUNT FIRE ALARM HORN WITH STROBE LIGHT, 15CD UNLESS OTHERWISE NOTED. WHITE FINISH.**.

GENERAL NOTES

- IF THERE ARE ANY DESIGN OR BUDGET ISSUES WITH THIS PROJECT, CONTACT THE DESIGNER INDICATED ON THIS SHEET AS SOON AS POSSIBLE
- FOLLOW THE DESIGN AS PER THESE STANDARD PLANS. ANY CHANGES, ADDITIONS, OR ADJUSTMENTS SHALL BE REVIEWED WITH THE PERSON WHOSE ENGINEERING STAMP IS HERE ATTACHED.
- SEE OIT DRAWINGS FOR PATHWAYS AND J-BOXES REQUIRED FOR TELE/DATA AND AUDIO/VISUAL NEEDS.
- ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS SHALL BE FIRE CAULKED AS REQUIRED BY CODE.
- ALL SHADED AREAS ARE OUTSIDE SCOPE OF WORK.

ABBREVIATIONS

+42"	DIMENSION INDICATES HEIGHT ABOVE FINISHED FLOOR AT WHICH CENTER OF DEVICE IS TO BE MOUNTED. SEE PLANS.
3R	NEMA 3R RATING
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLER UNIT
C	CONDUIT WITH PULL CORD
C.B.	CIRCUIT BREAKER
CLG	INSTALLED IN CEILING
EC	EMPTY CONDUIT WITH PULL CORD
E.C.	ELECTRICAL CONTRACTOR
EWV	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FACP	FIRE ALARM CONTROL PANEL
FPN	FUSE PER NAMEPLATE
LC	LIGHTING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
U.G.	UNDERGROUND
WP	WEATHER PROOF
S.E.	SERVICE ENTRANCE
EM	EMERGENCY FIXTURE WITH BATTERY OR GENERATOR BACK-UP
isc	RMS SYMMETRICAL SHORT CIRCUIT CURRENT
AIC	AMPERE INTERRUPTING CAPACITY (EQUIPMENT RATING)
TVSS	TV RECEPTACLE MOUNTED AT HEIGHT DESIGNATED BY OIT.



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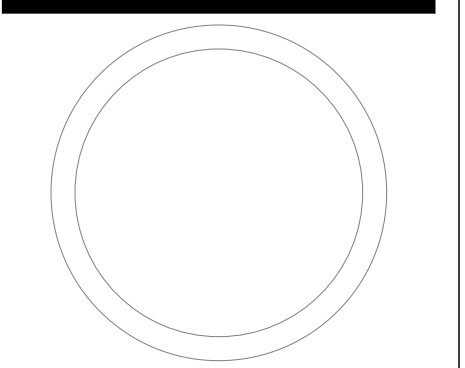
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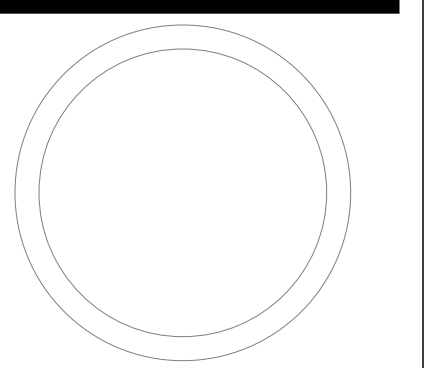
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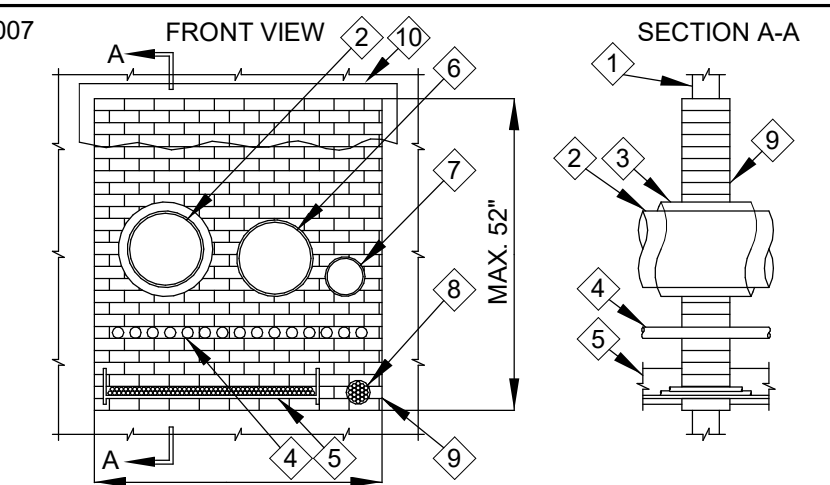
**ELECTRICAL
 DETAILS, NOTES,
 LEGENDS**

WORK ORDER & SHEET NO.

**N1864
 E5.0**



U.L. SYSTEM NO. WJ8007
F RATING = 4-HR.
T RATING = 0-HR.



FRONT VIEW SECTION A-A

- CONCRETE FLOOR OR WALL ASSEMBLY (MINIMUM 3-1/2" THICK).
- MAXIMUM 1/2" DIAMETER STEEL PIPE OR MAXIMUM 6" DIAMETER COPPER PIPE.
- MAXIMUM 1-1/2" THICK GLASS-FIBER PIPE INSULATION.
- 1/2" DIAMETER STEEL CONDUIT (MAXIMUM QUANTITY - 15).
- STEEL OR ALUMINUM CABLE TRAY (MAXIMUM SIZE 36" X 6") WITH ANY OF THE FOLLOWING:
 - MAXIMUM 300 KCMIL SINGLE CONDUCTOR POWER CABLE.
 - MAXIMUM 7/8" NO. 12 AWG COPPER CONDUCTOR CABLE.
 - MAXIMUM 8/8" PAIR NO. 24 AWG TELEPHONE CABLES.
 - MAXIMUM 3/4" DIAMETER STEEL PIPE (1/2" DIAMETER PIPE SHOWN).
 - MAXIMUM 6" DIAMETER STEEL PIPE.
 - MAXIMUM 4" DIAMETER CABLE BUNDLE TO INCLUDE ANY OF THE FOLLOWING:
 - FIBER-OPTIC CABLE (MAX. 1/2" DIA.).
 - 7/8" NO. 12 AWG CABLES.
 - ROMEX (20 NO. 10 - GND).
 - RG 624 COAXIAL CABLES.
 - 25 PAIR NO. 24 AWG TELEPHONE CABLES.
 - METAL CLAD CABLE (MAX. 3/4" DIA.).
 - HILTI FS-607 INTUMESCENT FIRESTOP BLOCK (2" TALL X 5" WIDE X 8" DEEP, REF. FRONT VIEW).
 - SEE NOTE NO. 4 BELOW.

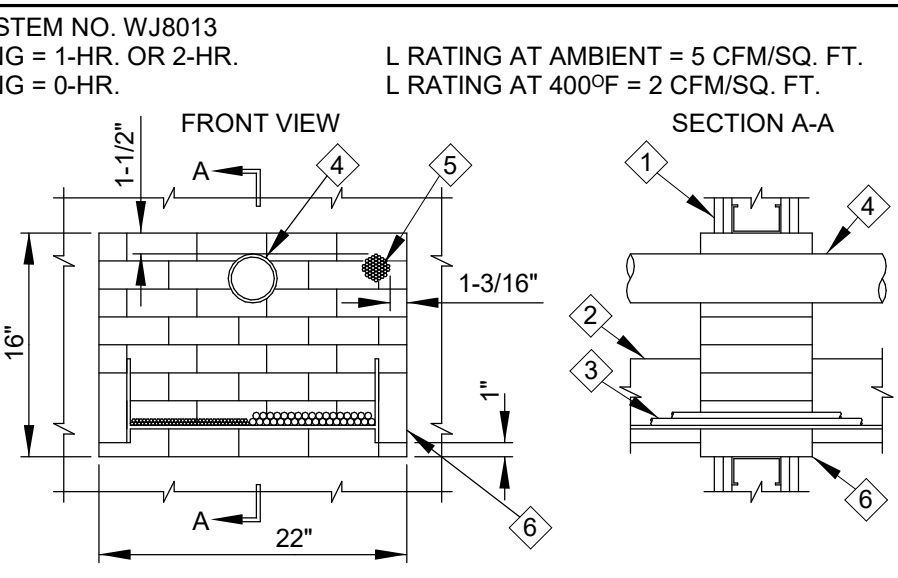
NOTES:
1. ANNULAR SPACING FOR CABLE TRAY = MINIMUM 1-1/2".
2. ANNULAR SPACING FOR PIPE AND CABLE PENETRATIONS = MINIMUM 1".
3. INSTALL HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST (AROUND CABLE TRAY, CABLES, OR PIPE PENETRATIONS).
4. IF THE ANNULAR IS GREATER THAN 1", PROVIDE A STEEL WIRE MESH (NOMINAL 2" SQUARE, NO. 16 SWG) INSTALL ON EACH SIDE OF ALL ASSEMBLIES.
5. MAXIMUM AREA OF OPENING = 2496 SQUARE INCHES.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

1 MULTIPLE PENETRATING ITEMS THROUGH CONCRETE FLOOR OR WALL

U.L. SYSTEM NO. WJ8013
F RATING = 1-HR. OR 2-HR.
T RATING = 0-HR.

L RATING AT AMBIENT = 5 CFM/SQ. FT.
L RATING AT 400°F = 2 CFM/SQ. FT.



FRONT VIEW SECTION A-A

- GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
- STEEL OR ALUMINUM CABLE TRAY (MAXIMUM SIZE 36" X 6").
- ANY OF THE FOLLOWING TYPES OF CABLES MAY BE USED WITH MAX. 30% FILL ON CABLE TRAY:
 - 500 KCMIL SINGLE CONDUCTOR POWER CABLE.
 - 7/8" NO. 12 AWG COPPER CONDUCTOR CABLE.
 - 300 PAIR NO. 24 AWG TELEPHONE CABLES.
 - MAXIMUM 3" DIAMETER PVC PLASTIC PIPE (SCH. 40)(CLOSED VENTED PIPING SYSTEM)
 - CABLE BUNDLE (MAX. 2" DIA.) TO CONSIST OF ANY OF THE FOLLOWING:
 - FIBER-OPTIC CABLES.
 - RG 59 COAXIAL CABLES.
 - 25 PAIR NO. 24 AWG TELEPHONE CABLES.
 - 7/8" NO. 12 AWG COPPER CONDUIT.
 - HILTI FS-607 FIRESTOP BLOCK (2" X 2" X 8" DEEP, REF. FRONT VIEW).

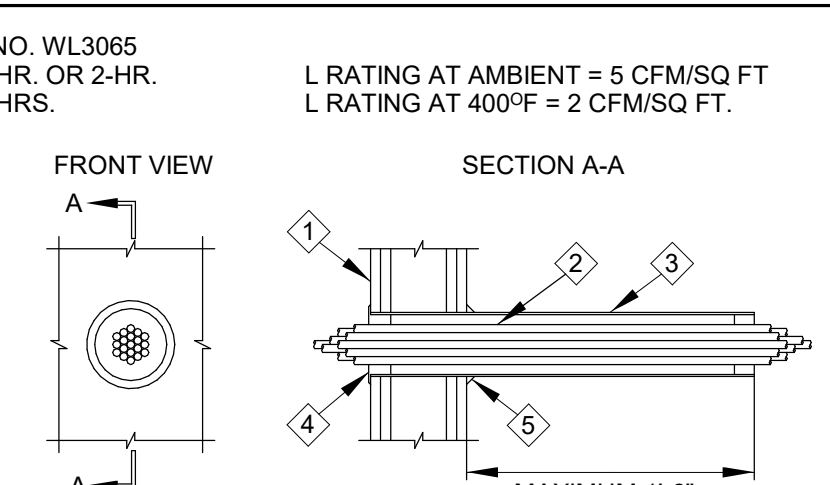
NOTES:
1. NOT SHOWN: PENETRATING ITEMS MAY ALSO INCLUDE A MAX. 4" DIA. STEEL OR COPPER PIPE, EMT, OR STEEL CONDUIT WITH A MAX. 1-1/2" GLASS-FIBER PIPE INSULATION ON NON-INSULATED MAX. 4" STEEL PIPE, EMT, OR CONDUIT.
2. ANNULAR SPACE = 1".
3. INSTALL HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST (AROUND PENETRATING ITEMS, OR BETWEEN BLOCKS).

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

2 MULTIPLE PENETRATIONS THROUGH 1-HR. OR 2-HR. GYPSUM WALL

U.L. SYSTEM NO. WL3065
F RATING = 1-HR. OR 2-HR.
T RATING = 0-HRS.

L RATING AT AMBIENT = 5 CFM/SQ FT
L RATING AT 400°F = 2 CFM/SQ FT.



FRONT VIEW SECTION A-A

- GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
- CABLE BUNDLES TO CONSIST OF ANY OF THE FOLLOWING:
 - 7/8" NO. 12 AWG CABLES.
 - 12 PAIR 24 AWG TELEPHONE CABLES.
 - 25 PAIR 24 AWG TELEPHONE CABLES.
 - RG 59 COAXIAL CABLES.
 - 2" C. (1" GND. NO.) 14 AWG METAL-CLAD CABLES.
 - 2" C. NO. 8 AWG METAL-CLAD CABLES.
 - MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLES.
 - OPTIONAL MAX. 4" NOM. DIA. STEEL PIPE SLEEVE (SCH. 40 OR THINNER)(SEE NOTE NO.).
- HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
 - MINIMUM 5/8" DEPTH OF SEALANT FOR 1-HR. FIRE-RATING.
 - MINIMUM 1-1/4" DEPTH OF SEALANT FOR 2-HR. FIRE-RATING.
 - SEE NOTE NO. 4 BELOW.

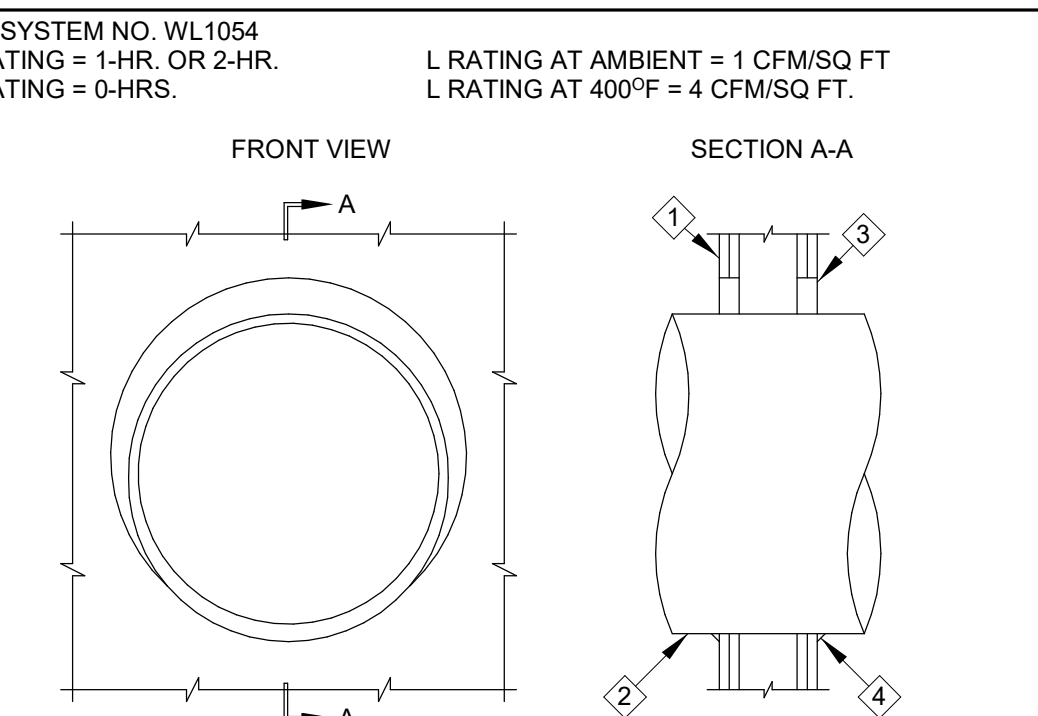
NOTES:
1. MAXIMUM DIAMETER OF OPENING = 4-1/2".
2. CABLES TO FILL MAXIMUM 33% OF AREA OF OPENING.
3. ANNULAR SPACE = MINIMUM 1/4" MAXIMUM 3/4".
4. STEEL SLEEVE MAY BE FLUSH WITH WALL SURFACE OR EXTEND UP TO 18" BEYOND WALL SURFACE IN ANY COMBINATION WHEN SLEEVE IS FLUSH WITH WALL. APPLY HILTI FS-ONE FIRESTOP SEALANT ON TO WALL SURFACE. WHEN SLEEVE IS EXTENDED BEYOND ONE OR BOTH SIDES OF THE WALL, APPLY 1/2" CROWN HILTI FS-ONE FIRE STOP SEALANT TO WALL/SLEEVE INTERFACE.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

3 CABLE BUNDLE TROUGH 1-HR. OR 2-HR. FIRE-RATED GYPSUM WALL

U.L. SYSTEM NO. WL1054
F RATING = 1-HR. OR 2-HR.
T RATING = 0-HRS.

L RATING AT AMBIENT = 1 CFM/SQ FT
L RATING AT 400°F = 4 CFM/SQ FT.



FRONT VIEW SECTION A-A

- GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
- PENETRATING ITEMS TO BE ONE OF THE FOLLOWING:
 - MAXIMUM 3/4" DIAMETER STEEL PIPE (SCH. 10 OR HEAVIER).
 - MAXIMUM 6" DIAMETER COPPER PIPE.
 - MAXIMUM 6" DIAMETER STEEL CONDUIT.
 - MAXIMUM 6" DIAMETER STEEL PIPE.
 - HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
 - MINIMUM 3/8" DEPTH OF SEALANT FOR 1-HR. FIRE-RATING.
 - MINIMUM 1-1/4" DEPTH OF SEALANT FOR 2-HR. FIRE-RATING.
 - MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AAT POINT OF CONTACT.

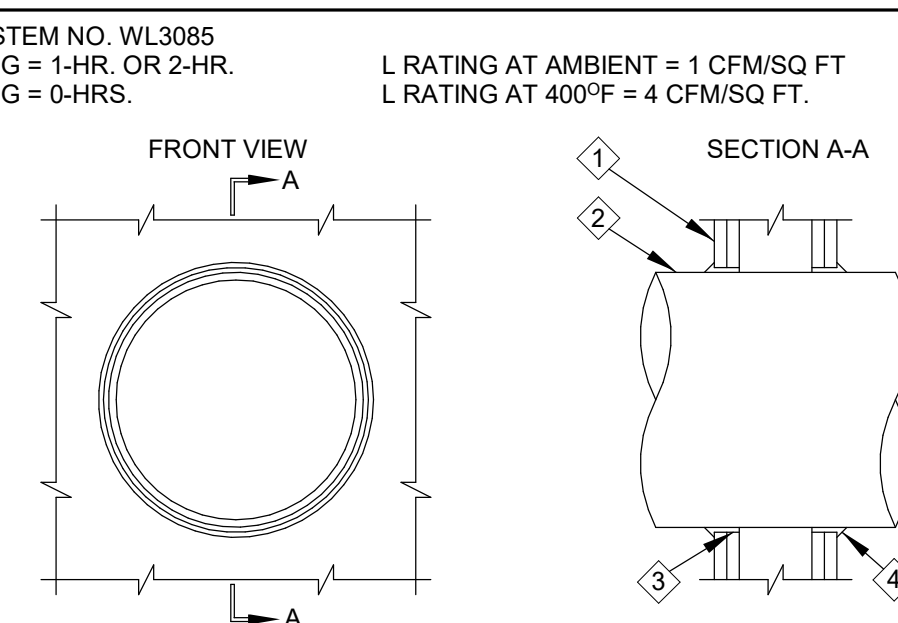
NOTES:
1. MAXIMUM DIAMETER OF OPENING = 32-1/4".
2. ANNULAR SPACE = MINIMUM 0". MAXIMUM 2-1/4".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

4 METAL PIPE TROUGH GYPSUM WALL ASSEMBLY

U.L. SYSTEM NO. WL3085
F RATING = 1-HR. OR 2-HR.
T RATING = 0-HRS.

L RATING AT AMBIENT = 1 CFM/SQ FT
L RATING AT 400°F = 4 CFM/SQ FT.



FRONT VIEW SECTION A-A

- GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
- PENETRATING ITEMS TO BE ONE OF THE FOLLOWING:
 - MAXIMUM 1/2" DIAMETER STEEL PIPE (SCH. 20 OR HEAVIER).
 - MAXIMUM 1/2" DIAMETER CAST-IRON PIPE.
 - MAXIMUM 6" DIAMETER COPPER PIPE.
 - MAXIMUM 6" DIAMETER EMT.
 - MAXIMUM 6" DIAMETER STEEL CONDUIT.
 - 2" C. NO. 8 AWG METAL-CLAD CABLES.
 - MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLES.
- HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT.
- MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT PIPE PIPE/GYPSUM WALLBOARD INTERFACE.

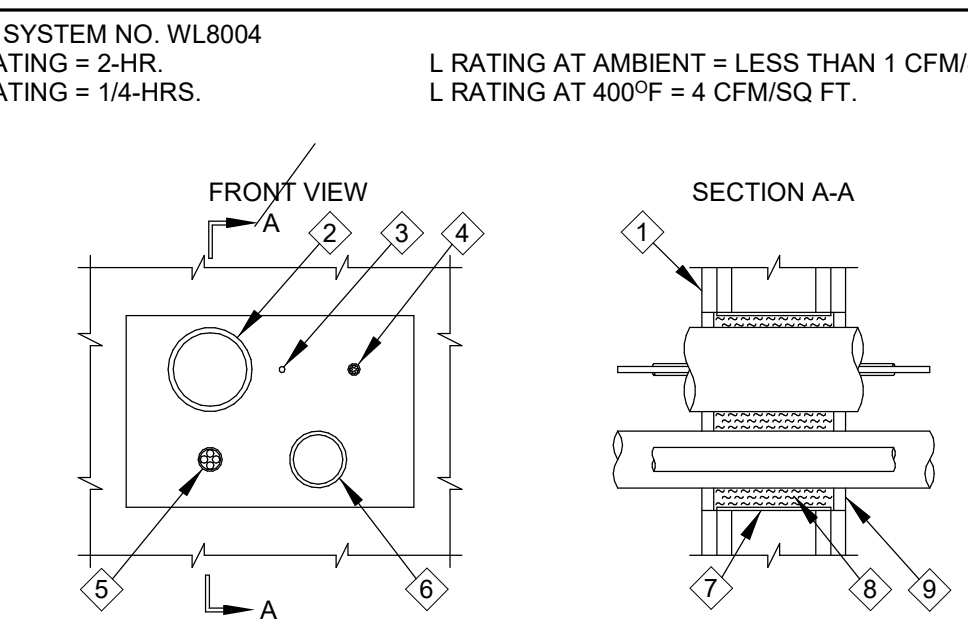
NOTES:
1. ANNULAR SPACE = MINIMUM 1/4".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

5 EMT THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

U.L. SYSTEM NO. WL8004
F RATING = 2-HR.
T RATING = 1/4-HRS.

L RATING AT AMBIENT = LESS THAN 1 CFM/SQ FT
L RATING AT 400°F = 4 CFM/SQ FT.



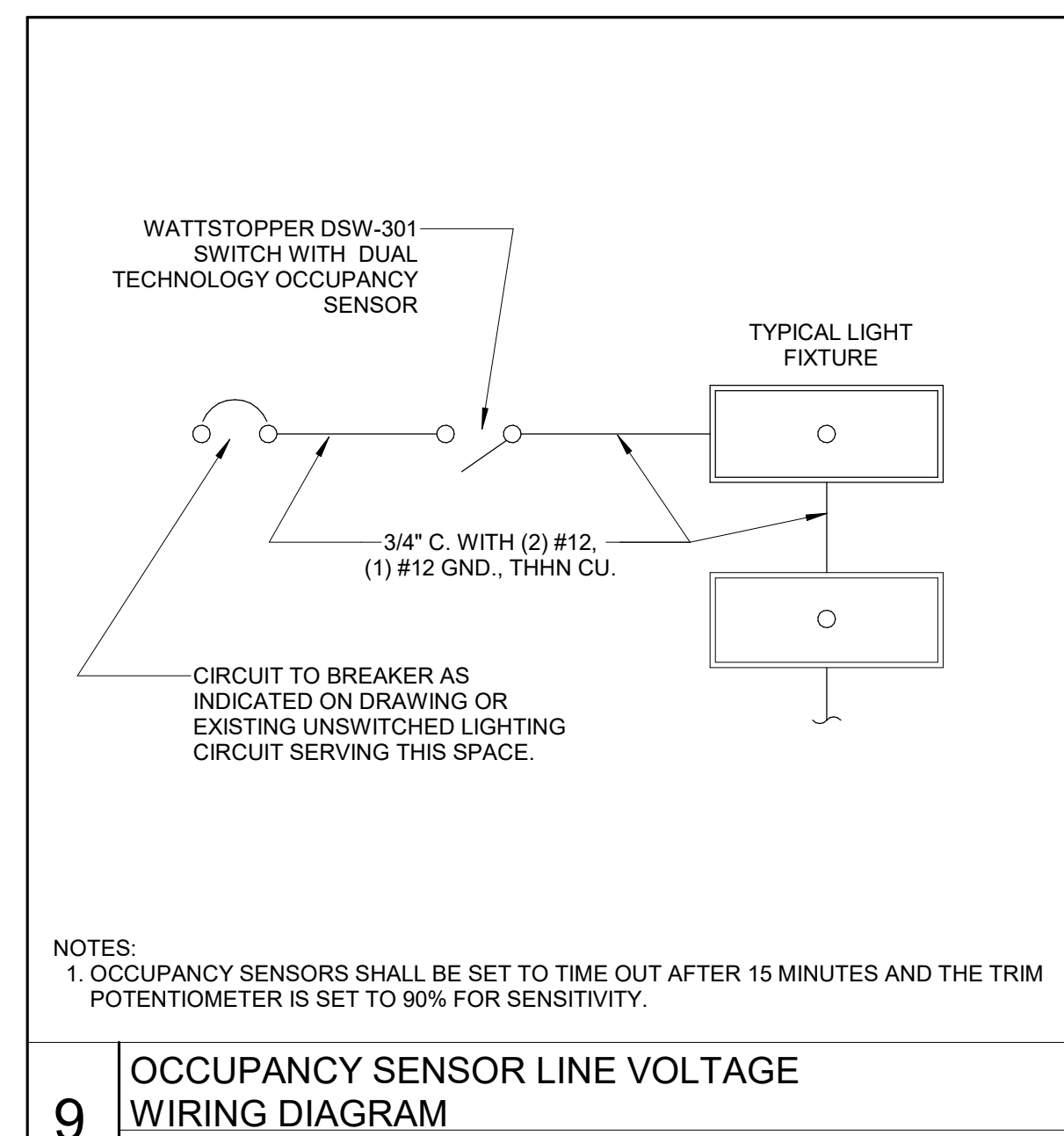
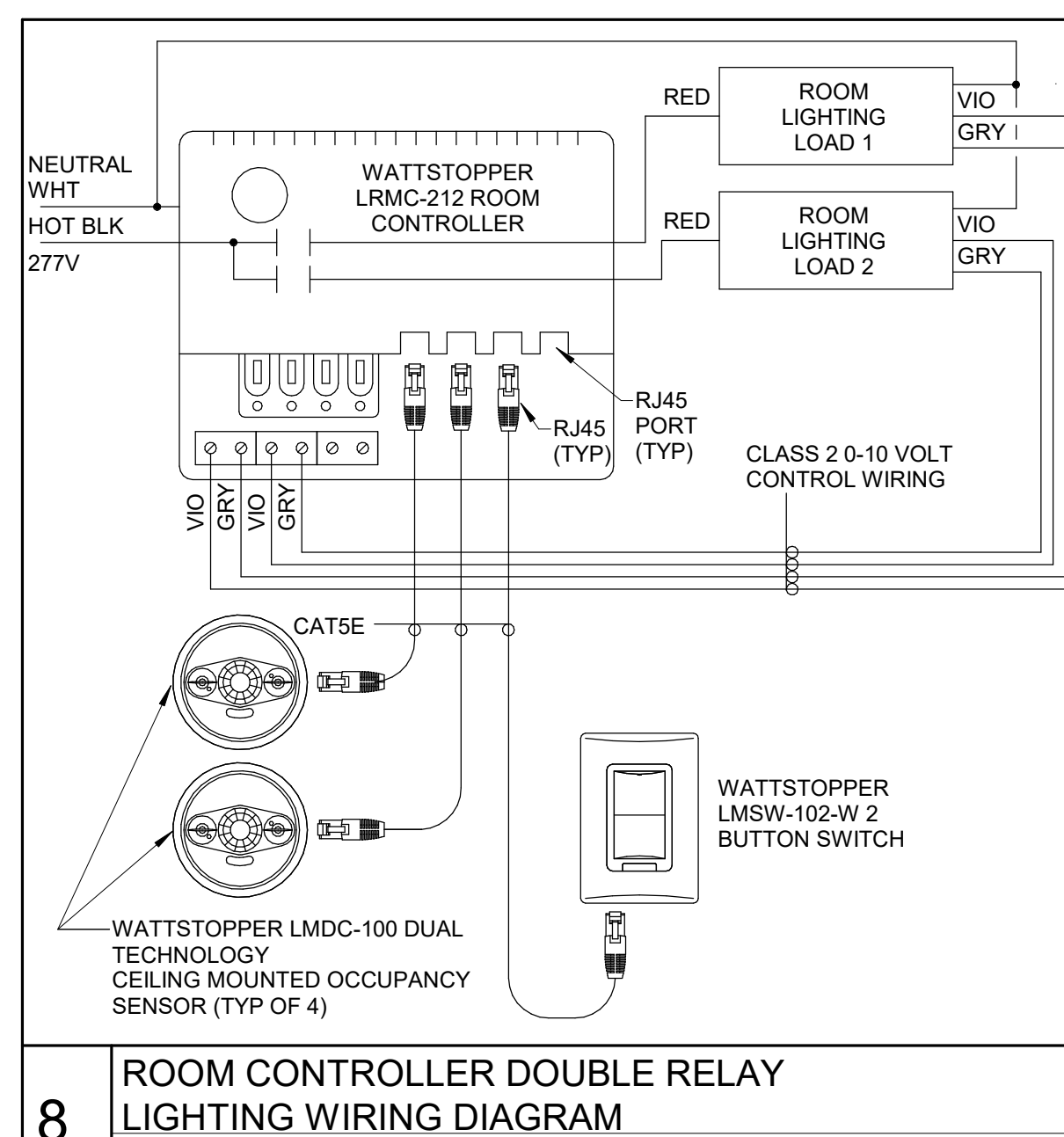
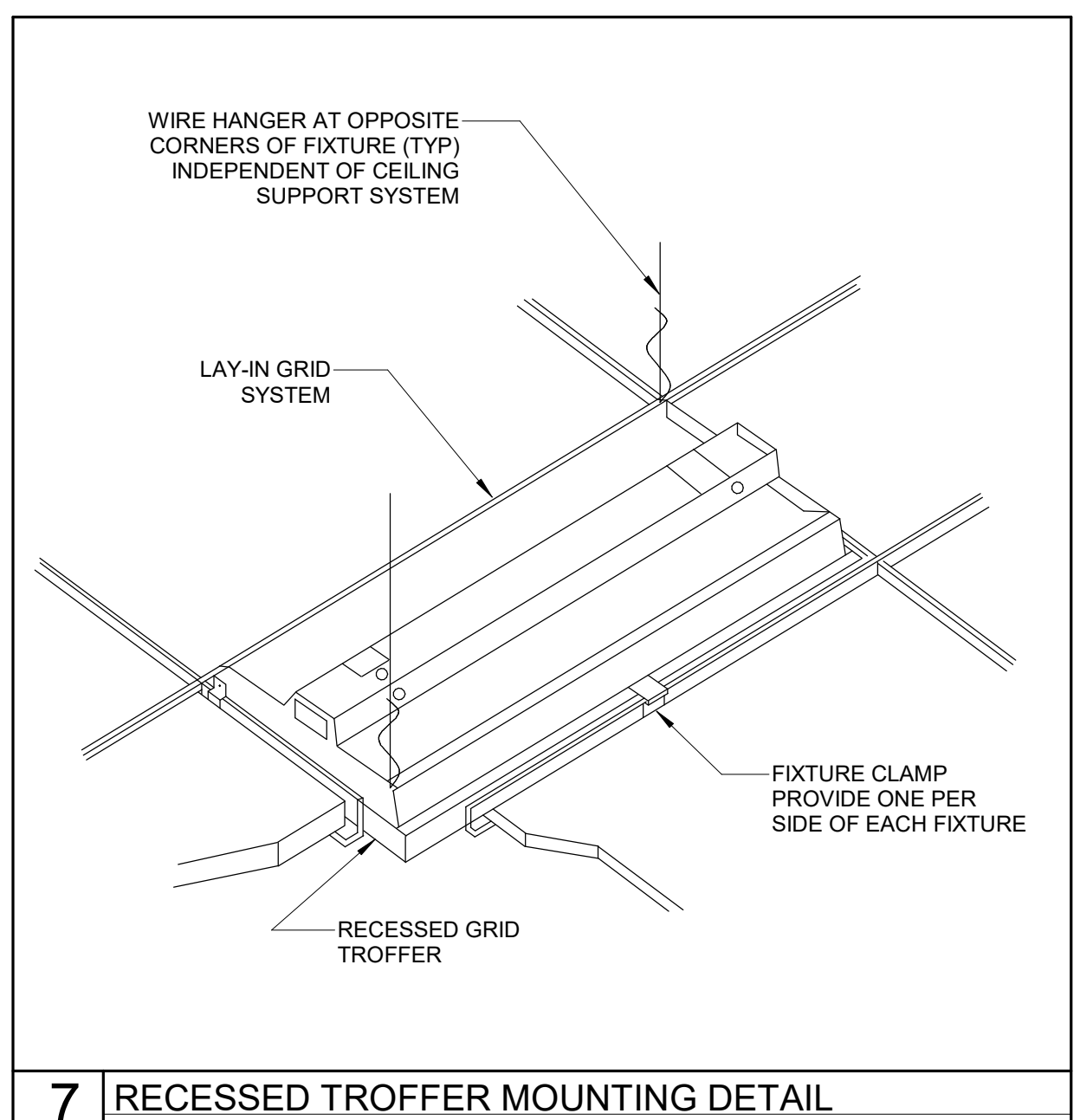
FRONT VIEW SECTION A-A

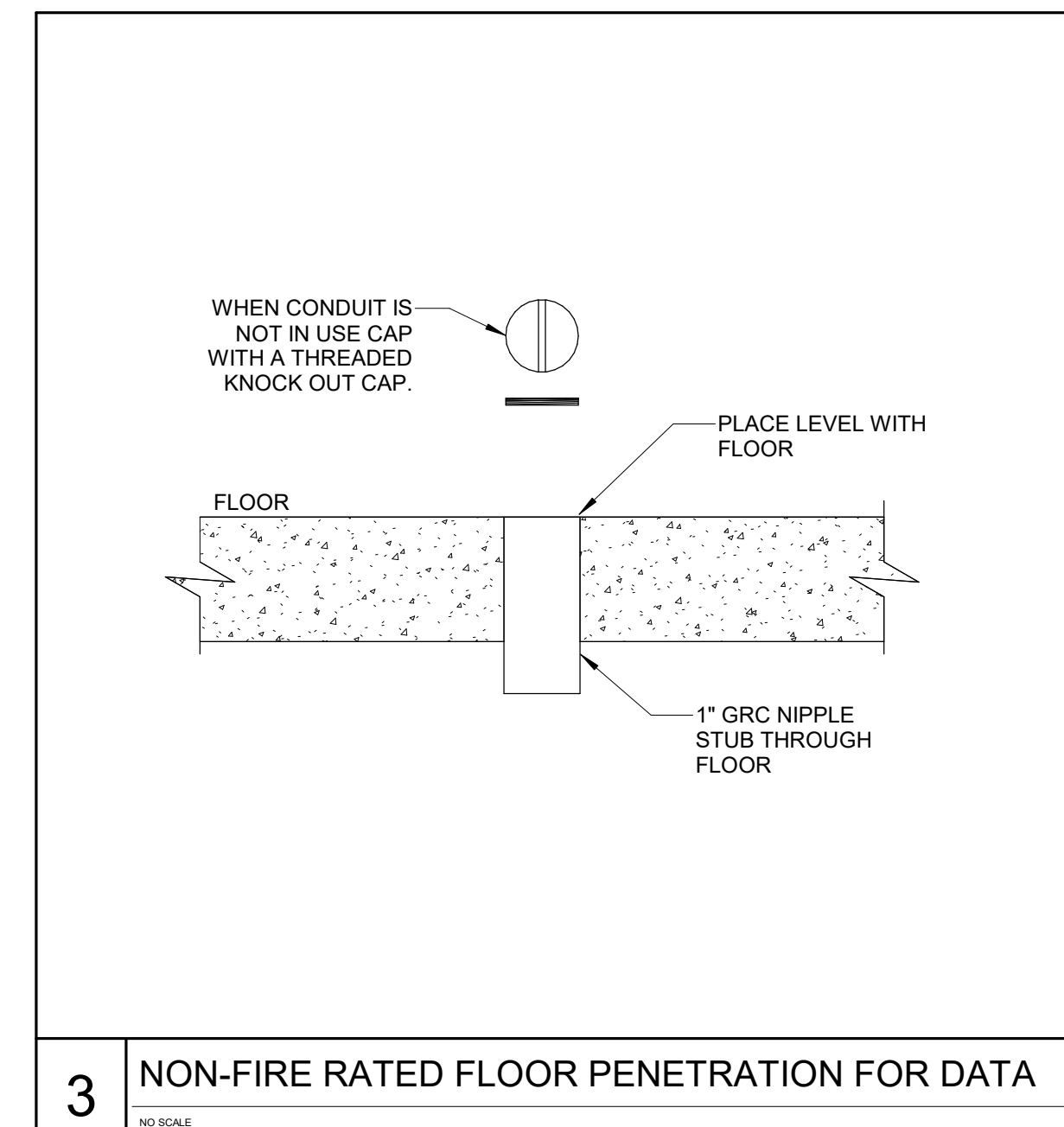
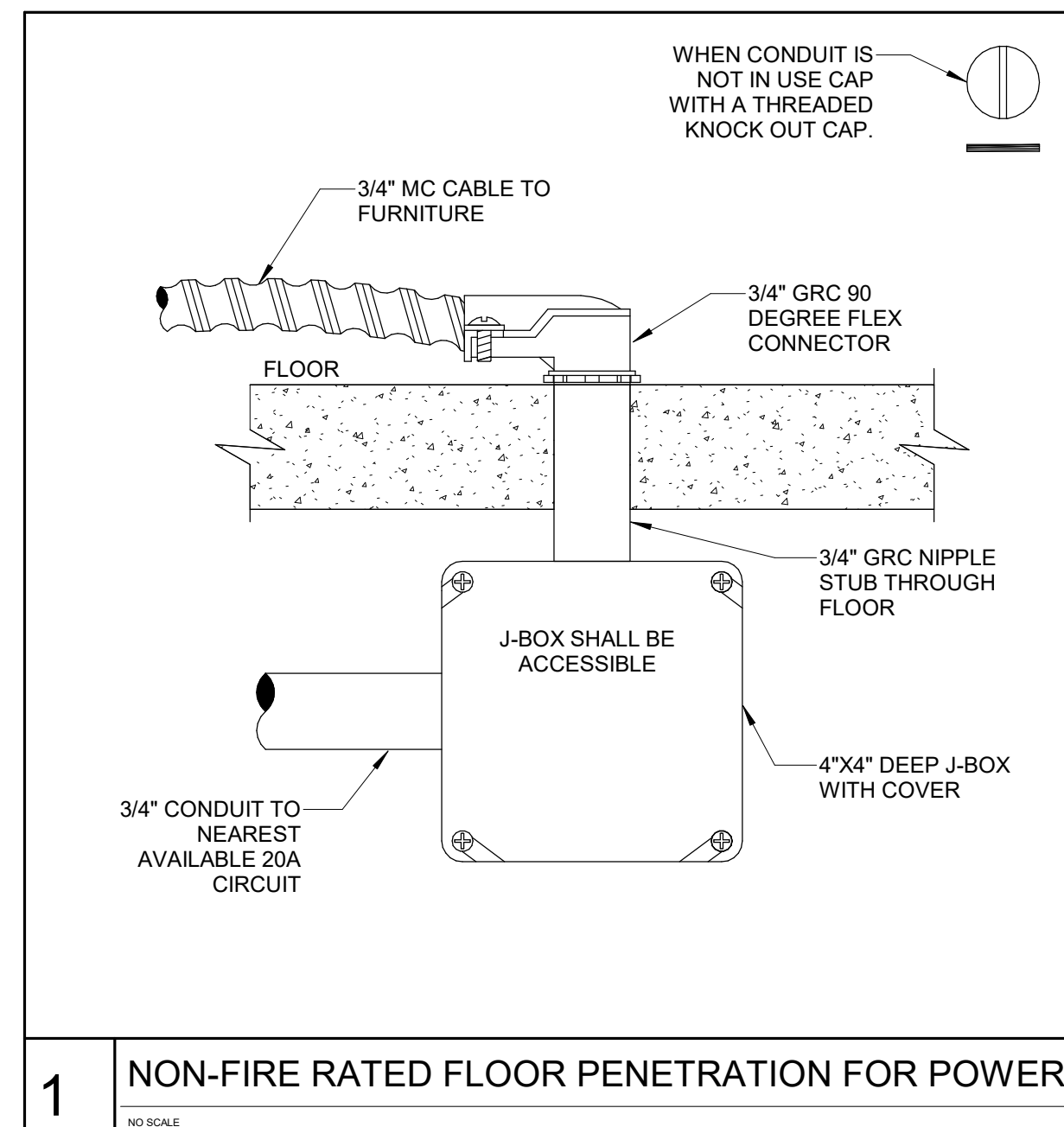
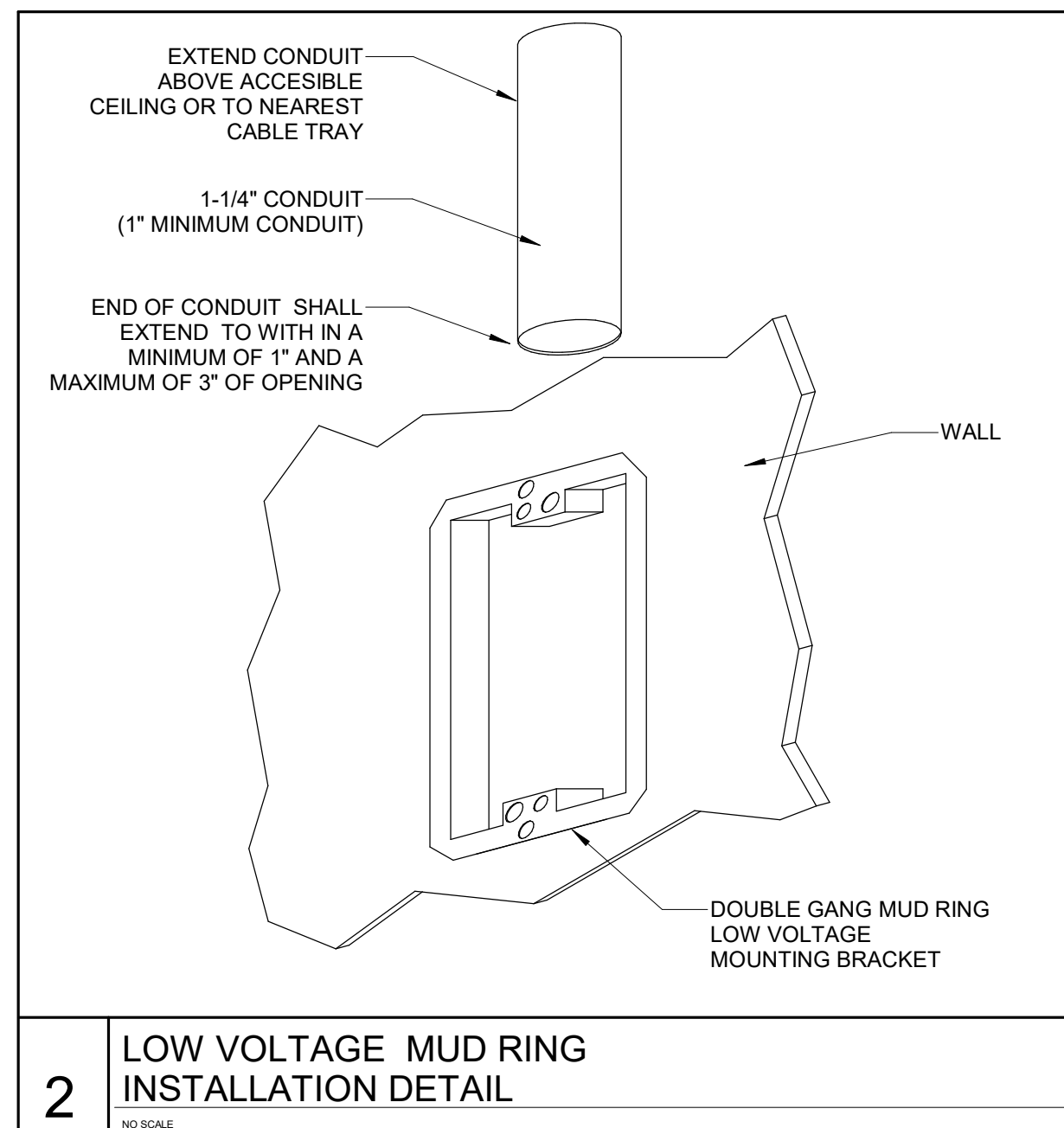
- GYPSUM WALL ASSEMBLY (2-HR. FIRE-RATING).
- MAXIMUM 3" DIAMETER ELECTRICAL METALLIC TUBING (EMT).
- MAXIMUM 25 PAIR NO. 24 AWG (OR SMALLER) TELEPHONE CABLES.
- MAXIMUM 3/8" NO. 10 AWG NM (WITH GROUND) POWER CABLE WITH PVC INSULATION.
- MAXIMUM 300 KCMIL (OR SMALLER) POWER CABLE WITH PVC INSULATION AND NYLON JACKET.
- MAXIMUM 2" DIAMETER STEEL PIPE, COPPER PIPE, EMT, OR STEEL CONDUIT.
- NO. 8 STEEL WIRE MESH, 4-3/4" LONG (OR STANDARD METAL DRYWALL TRACK SCREW) SECURELY IN PLACE, CENTERED IN OPENING.
- MINIMUM 4" THICKNESS MINERAL WOOL (M4 4 PFC DENSITY) TIGHTLY PACKED.
- MINIMUM 1/2" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.

NOTES:
1. MAXIMUM AREA OF OPENING = 96 SQUARE INCHES WITH MAXIMUM DIMENSION OF 12".
2. DISTANCE BETWEEN ITEMS = MINIMUM 1-3/4" MAXIMUM 7".
3. DISTANCE FROM EDGE OF OPENING = MINIMUM 1/2" MAXIMUM 7" (EXCEPTION: 300 KCMIL POWER CABLE MUST BE MINIMUM 1-1/2" FROM EDGE OF OPENING).

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

6 MULTIPLE METAL PIPE AND CABLE THROUGH 2-HR. GYPSUM WALL





PANEL SCHEDULE "1L2"																									
VOLTAGE: 208 Y/ 120 VOLTS				BUS RATING (AMPS): 250				REMARKS: EXISTING SIEMENS																	
MOUNTING: SURFACE				PHASE: 3 MAIN LUGS ONLY																					
ENCLOSURE: NEMA 1				WIRE: 4				MINIMUM EQUIPMENT RATING: 22,000 AMPS (RMS-SYM)																	
No.	AMPS	POLE	MOD.	CIRCUIT NAME	FEEDER		CKT. LOAD		LOAD/PHASE (VA)			CKT. LOAD		FEEDER		CIRCUIT NAME	MOD.	POLE	AMPS	No.					
					C	WIRE	GRD	WATTS	ØA	ØB	ØC	WATTS	ØA	ØB	ØC						GRD	WIRE	C		
1	20	1	-	RECEP RM 111G & 111F	3/4"	#12	#12	1.00	1,260	2,160			900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	2	
3	20	1	-	RECEP RM 111E & 111D	3/4"	#12	#12	1.00	1,440				900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	4	
5	20	1	-	RECEP RM 111C & 111B	3/4"	#12	#12	1.00	1,440				900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	6	
7	20	1	-	RECEP RM 111A	3/4"	#12	#12	1.00	900	1,800			900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	8	
9	20	1	-	RECEP RM 111H & 111J	3/4"	#12	#12	1.00	1,440				900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	10	
11	20	1	-	RECEP RM 117A	3/4"	#12	#12	1.00	720				1,620	900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	12
13	20	1	-	RECEP RM 117	3/4"	#12	#12	1.00	900	1,800			900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	14	
15	20	1	-	FURNITURE CONNECTION RM 111	3/4"	#12	#12	1.00	1,080				1,980	900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	16
17	20	1	-	FURNITURE CONNECTION RM 111	3/4"	#12	#12	1.00	1,080				1,980	900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	18
19	20	1	-	FURNITURE CONNECTION RM 111	3/4"	#12	#12	1.00	1,080	1,980			900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	20	
21	20	1	-	FURNITURE CONNECTION RM 111	3/4"	#12	#12	1.00	1,080				900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	22	
23	20	1	-	RECEP RM 111	3/4"	#12	#12	1.00	1,804				2,704	900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	24
25	20	1	-	RECEP PRINTER DED. RM 111	3/4"	#12	#12	1.00	1,000	1,900			900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	26	
27	20	1	-	RECEP PRINTER COUNTER RM 111	3/4"	#12	#12	1.00	540				1,440	900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	28
29	20	1	-	RECEP RECEPTION COUNTER RM 111	3/4"	#12	#12	1.00	360				1,260	900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	30
31	20	1	-	RECEP RECEPTION COUNTER RM 111	3/4"	#12	#12	1.00	360	1,260			900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	32	
33	20	1	-	EX TESTING CENTER 111	3/4"	EX	EX	1.00	900				1,800	900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	34
35	20	1	-	EX TESTING CENTER 111	3/4"	EX	EX	1.00	900				1,800	900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	36
37	20	1	-	EX TESTING CENTER 111	3/4"	EX	EX	1.00	900	1,800			900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	38	
39	20	1	-	EX TUTORING & TA RM 107	3/4"	EX	EX	1.00	900				1,800	900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	40
41	20	1	-	EX TUTORING & TA RM 107	3/4"	EX	EX	1.00	900				1,800	900	1.00	EX	EX	3/4"			EX TESTING CENTER RM 111	-	1	20	42
43	20	1	-	EX TESTING CENTER 111	3/4"	EX	EX	1.00	900	1,800			900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	44	
45	20	1	-	EX TUTORING & TA RM 107	3/4"	EX	EX	1.00	900				1,800	900	1.00	EX	EX	3/4"			EX TUTORING & TA RM 107	-	1	20	46
47	20	1	-	EX EMPLOYEE TESTING RM 123	3/4"	EX	EX	1.00	900				1,800	900	1.00	EX	EX	3/4"			EX EMPLOYEE TESTING RM 123	-	1	20	48
49	20	1	-	EX EMPLOYEE TESTING RM 123	3/4"	EX	EX	1.00	900	1,800			900	1.00	EX	EX	3/4"			EX EMPLOYEE TESTING RM 123	-	1	20	50	
51	20	1	-	EX TUTORING & TA RM 107	3/4"	EX	EX	1.00	900				1,800	900	1.00	EX	EX	3/4"			EX LOAD	-	1	20	52
53	20	-	-	SPARE				1.00					0							SPARE	-		20	54	
55	20	-	-	SPARE				1.00					0							SPARE	-		20	56	
57	20	1	-	EX MEDIUM CONF RM 118	3/4"	EX	EX	1.00	900				900							SPARE	-		20	58	
59	20	-	-	SPARE				1.00					0							SPARE	-		20	60	
61	20	-	-	SPARE				1.00					0							SPARE	-		20	62	
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67	20	-	-	SPARE				1.00					0							SPARE	-		20	68	
69	20	-	-	SPARE				1.00					0							SPARE	-		20	70	
71	20	-	-	SPARE				1.00					0							SPARE	-		20	72	

NOTES:

- EX DENOTES EXISTING CONDITIONS.
- E.C. SHALL PROVIDE A TYPED UPDATED DOOR MOUNTED PANEL SCHEDULE.
- ALL CIRCUITS SHOWN IN BOLD ARE NEW OR HAVE BEEN MODIFIED.
-

ØA	ØB	ØC	TOTALS	
16,300	18,180	15,304	49,784	CONNECTED LOAD (VA)
			138	CONNECTED LOAD (A)
0	0	0	0	DEMAND FACTOR ADJUSTMENTS (VA)
16,300	18,180	15,304	49,784	TOTAL LOAD (VA)
136	151	127		TOTAL LOAD (A)
			151	MAXIMUM LOAD (A)
33%	37%	31%		PHASE BALANCE



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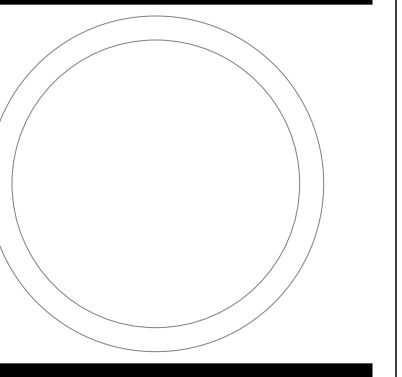
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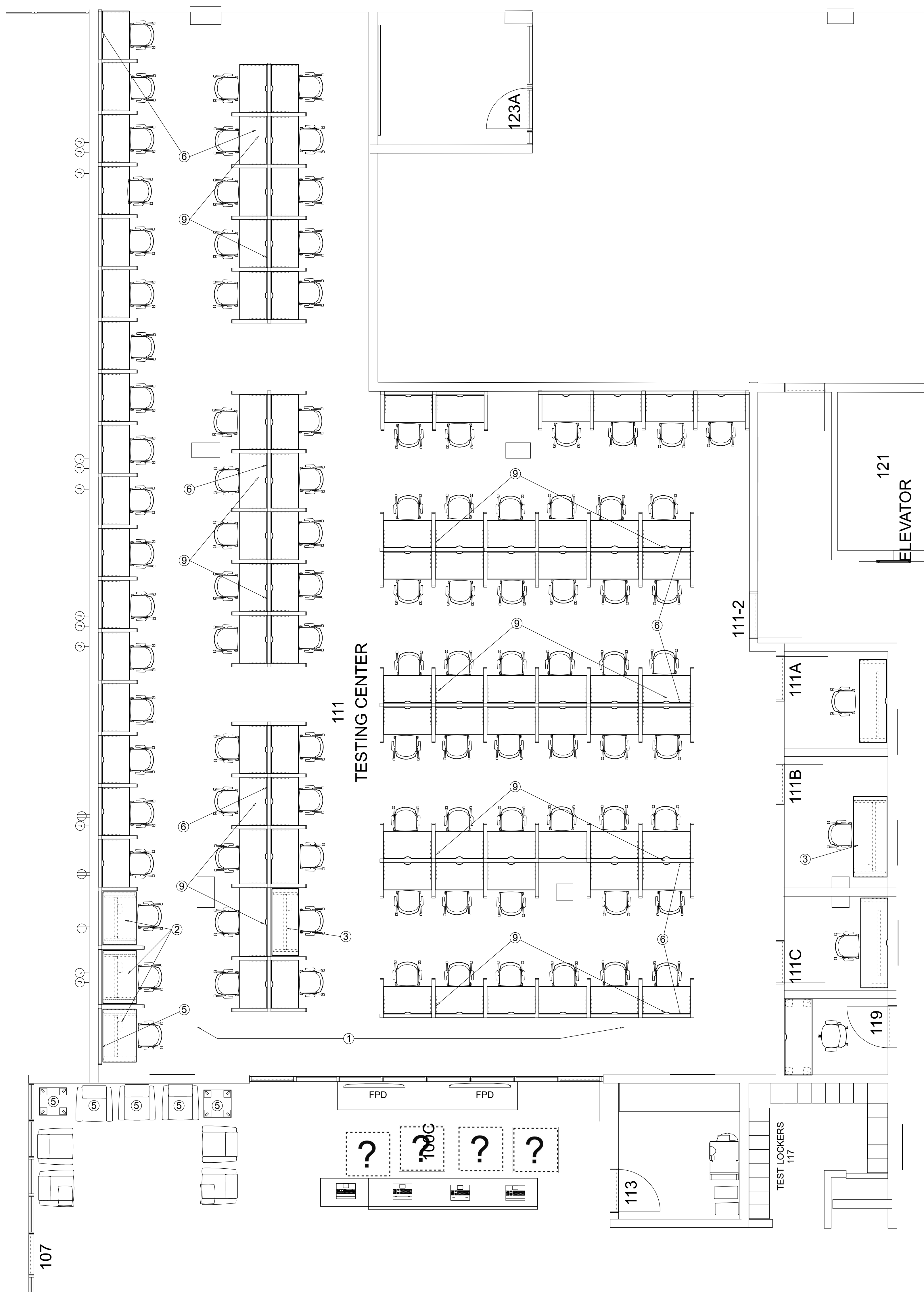
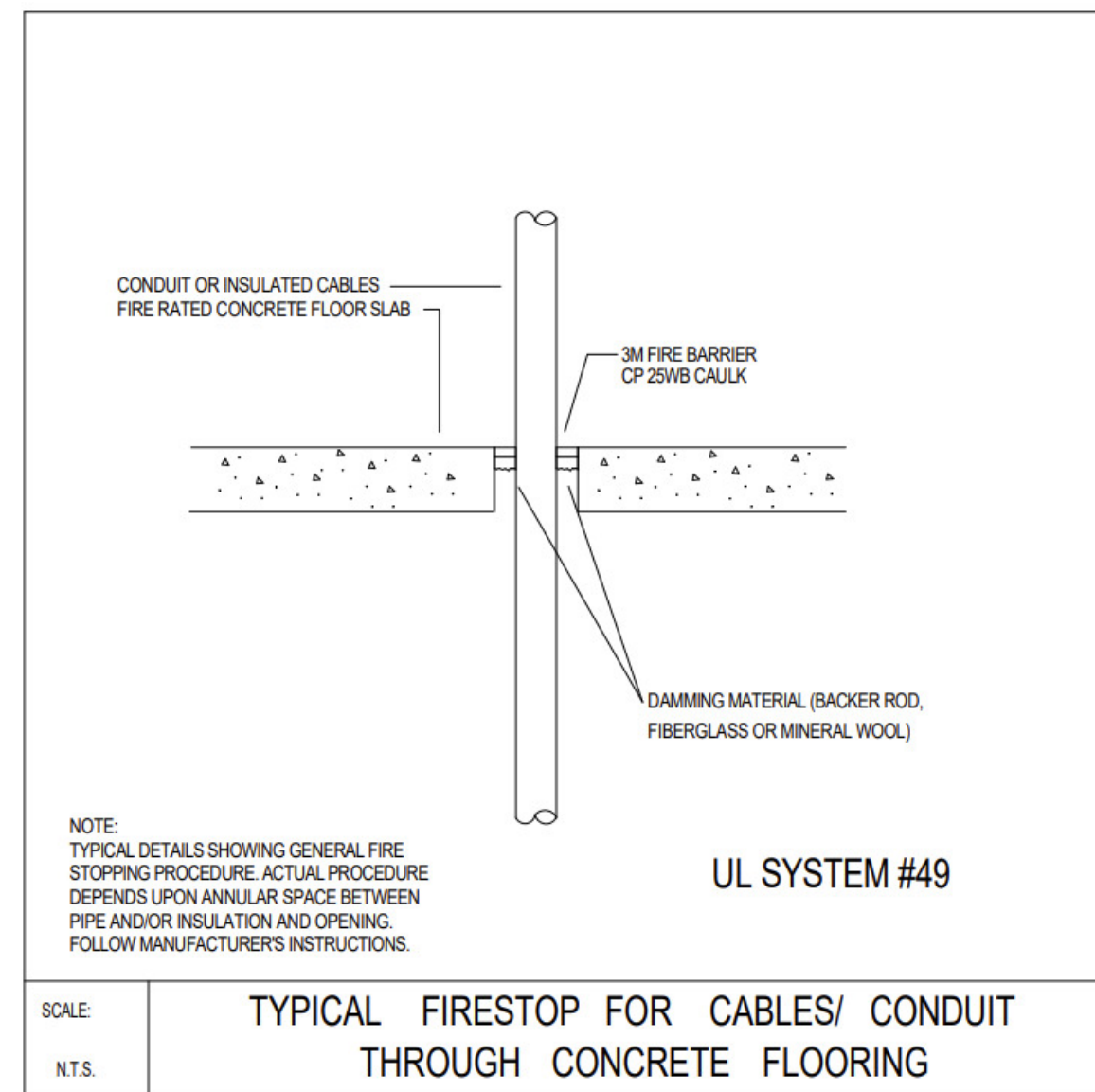
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 RENOVATE TESTING CENTER SPACE INTO OFFICES 111
 CONTINUING EDUCATION



ELECTRICAL SCHEDULES AND DETAILS

WORK ORDER & SHEET NO.


N1864
E5.2



EXISTING LAYOUT

SHOP INSTRUCTIONS:

- MOVING**
- REMOVE ALL EXISTING FURNITURE SHOWN IN EXISTING LAYOUT. SEE CET REPORT FOR PARTS BEING REUSED IN NEW LAYOUT, AND WHAT PARTS ARE TO BE STORED IN HCEB STORAGE
 - EXISTING ADJUSTABLE HEIGHT DESKS TO BE STORED IN HCEB STORAGE
 - EXISTING ADJUSTABLE HEIGHT DESK TO BE REUSED IN NEW LAYOUT
 - START OF PANEL INSTALLATION FOR NORTH TO SOUTH ORIENTATION TO BEGIN WITH PANELS TIGHT TO COLUMN
 - EXISTING LOUNGE SEATING AND TABLES TO BE REUSED IN NEW LAYOUT
 - ELECTRICAL SHOP
 - DISCONNECT EXISTING STEELCASE POWERWHIP
 - PROVIDE NEW J-BOX WITH (4) CIRCUITS. HARDWIRE STEELCASE FURNITURE WHIP
 - COREDRILL FLOOR & PROVIDE POWER TO STEELCASE FURNITURE WHIP. PROVIDE 1 CIRCUIT
 - NOTE: STANDARD FOR BUILDING IS NOT A POKE THROUGH FOR THE POWER FEEDS - IT IS JUST A HOLE WITH CONDUIT WITH J-BOX IN PLENUM SPACE BELOW - SEE DETAIL AND CONFIRM WITH KEVIN POWEL.
 - UPHOLSTERY SHOP
 - REPLACE CARPET TILE WHERE ELECTRICAL OR NETWORK CONDUIT WAS REMOVED
- FOR QUESTIONS CONTACT CAROLYN CRAWFORD @ 2-2644



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PROVO, UTAH

FACILITIES PLANNING

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DESIGNER: C CRAWFORD
DRAWN BY: C CRAWFORD

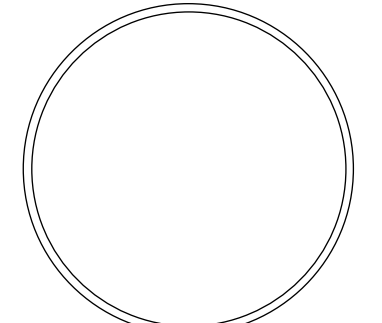
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PLANNING DIR:	
CLIENT APPROVAL:	DATE:

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HCEB 111



BYU WORK ORDER
N1864

FURNITURE PLAN

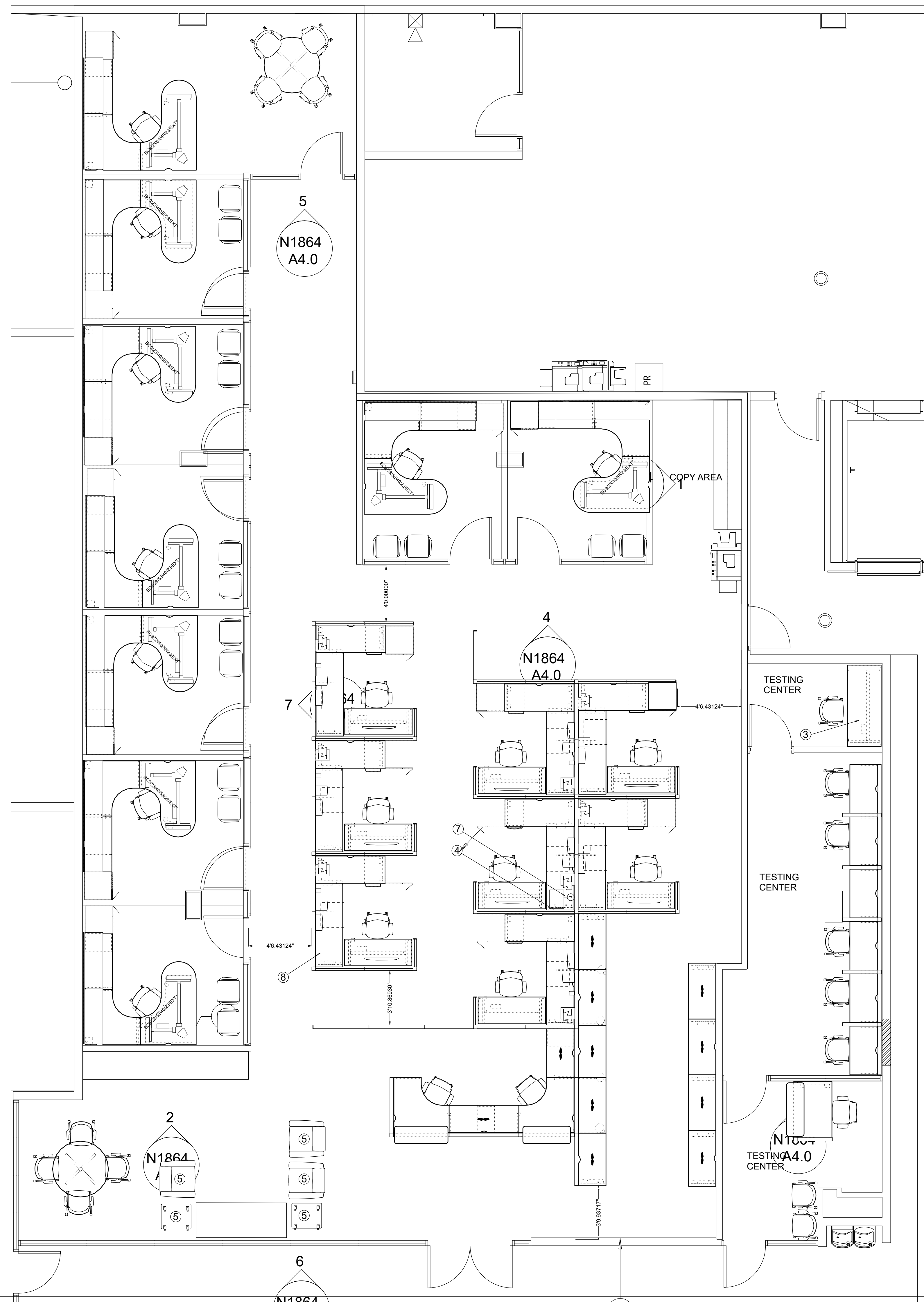


F1

CONSTRUCTION DOCUMENTS

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NEW LAYOUT

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- SHOP INSTRUCTIONS:
- MOVING**
- 1 REMOVE ALL EXISTING FURNITURE SHOWN IN EXISTING LAYOUT. SEE CET REPORT FOR PARTS BEING REUSED IN NEW LAYOUT, AND WHAT PARTS ARE TO BE STORED IN HCEB STORAGE
 - 2 EXISTING ADJUSTABLE HEIGHT DESKS TO BE STORED IN HCEB STORAGE
 - 3 EXISTING ADJUSTABLE HEIGHT DESK TO BE REUSED IN NEW LAYOUT
 - 4 START OF PANEL INSTALLATION FOR NORTH TO SOUTH ORIENTATION TO BEGIN WITH PANELS TIGHT TO COLUMN
 - 5 EXISTING LOUNGE SEATING AND TABLES TO BE REUSED IN NEW LAYOUT
 - 6 ELECTRICAL SHOP
 - 7 DISCONNECT EXISTING STEELCASE POWERWHIP
 - 8 PROVIDE NEW J-BOX WITH (4) CIRCUITS. HARDWIRE STEELCASE FURNITURE WHIP
- UPHOLSTERY SHOP
- REPLACE CARPET TILE WHERE ELECTRICAL OR NETWORK CONDUIT WAS REMOVED
- FOR QUESTIONS CONTACT CAROLYN CRAWFORD @ 2-2644



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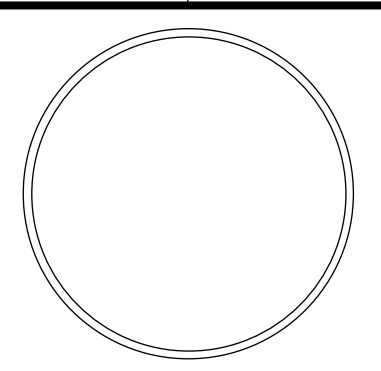
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DRAWN BY: C CRAWFORD

APPROVALS

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HCEB 111



BYU WORK ORDER
N1864

FURNITURE PLAN

F2

CONSTRUCTION DOCUMENTS





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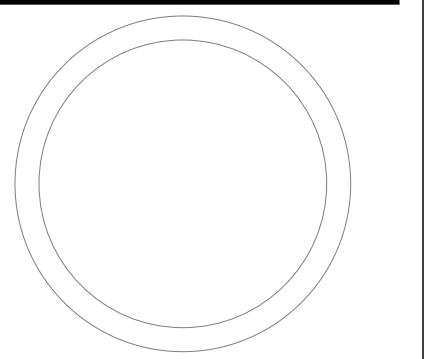
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DESIGNER: S. KING
DRAWN BY: MDL

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REVISIONS

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CONTINUING EDUCATION
HARMAN CONTINUING EDUCATION BUILDING - LEVEL 1 - 111 & LEVEL 4 - 403



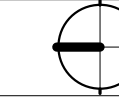
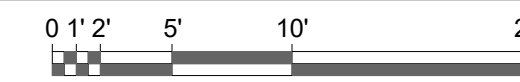
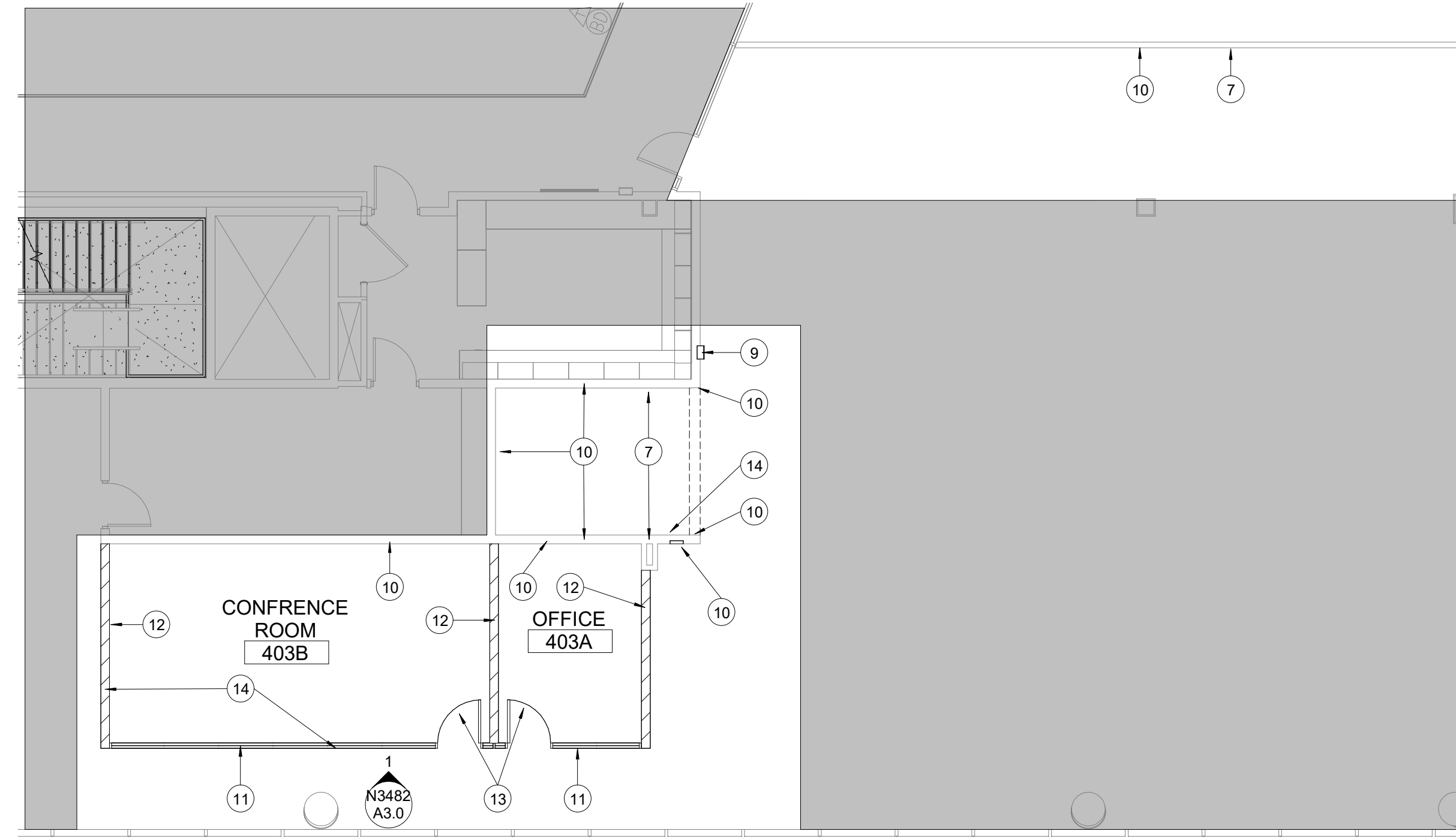
DEMOLITION & NEW FLOOR PLAN

WORK ORDER & SHEET NO.

**N3482
A1.0**

REFERENCE NOTES

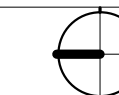
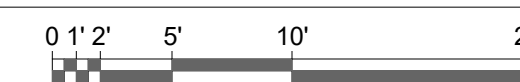
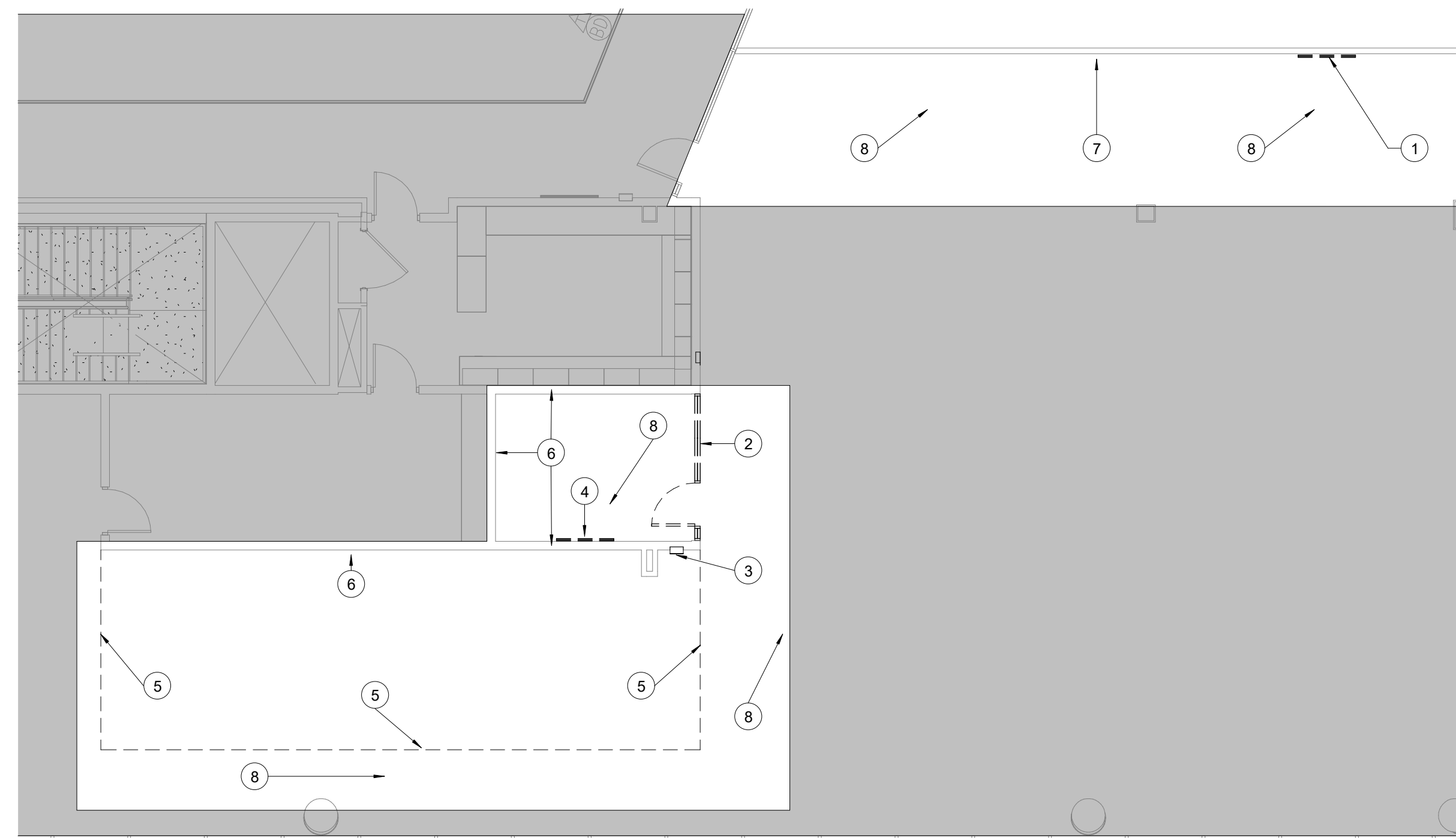
- 1 OWNER TO REMOVE AND DISPOSE OF EXISTING SMART BOARD
- 2 REMOVE AND DISPOSE OF EXISTING ALUM. STORE FRONT WINDOWS, AND 3 5/8" METAL STUD GYP. WALL ABOVE AND BELOW STORE FRONT GLASS
- 3 REMOVE AND SAVE EXISTING FIRE EXTINGUISHER, AND BOX FOR REUSE IN PROJECT
- 4 EXISTING FLAT PANEL SCREENS TO BE REMOVED, SEE OIT PLANS, ELECTRICAL PLANS
- 5 OWNER TO CUT EXISTING CARPET TILES FOR NEW WALLS
- 6 EXISTING WALLS TO REMAIN, PROTECT AS REQUIRED
- 7 MODIFY EXISTING POWER AND NETWORKING AS NOTED ON ELECTRICAL PLANS
- 8 EXISTING CARPET TO REMAIN, PROTECT AS REQUIRED
- 9 INSTALL EXISTING FIRE EXTINGUISHER AND WALL MOUNTED BOX, PATCH AND PAINT WALL AROUND INSTALLATION AS NEEDED
- 10 PATCH AND PAINT THE ENTIRETY OF THE EXISTING WALL, SEE FINISH SCHEDULE
- 11 PROVIDE AND INSTALL STORE FRONT GLASS SYSTEM - KAWNEER TRIFAB VG 450 4-1/2" DEEP WITH A 1-3/4" SIGHT LINE - CENTER. CLEAR ANODIZED FINISH, SEE ELEVATIONS
- 12 NEW 3 5/8" METAL STUD WALL W/ 5/8" GYP. BD. EACH SIDE W/ SOUND BATT FILLING, PAINTED BOTH SIDES. TO GO 6" ABOVE CEILING GRID, SEE FINISH SCHEDULE
- 13 PROVIDE AND INSTALL NEW 3070 NATURAL WALNUT SLAB DOOR TO MATCH EXISTING BUILDING DOORS IN FIT AND FINISH, SEE FINISH SCHEDULE
- 14 PATCH AND REPAIR EXISTING CARPET FLOORING



NEW FLOOR PLAN

SCALE: 1/8" = 1'-0"

2



DEMOLITION FLOOR PLAN

SCALE: 1/8" = 1'-0"

1



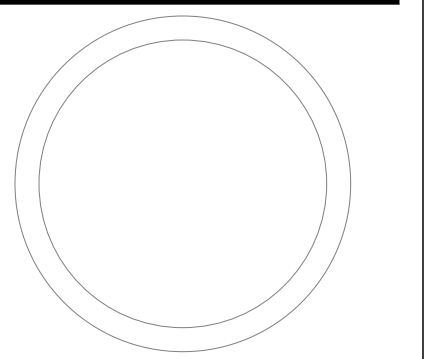
FACILITIES PLANNING
 240 BRWB PROVO, UTAH 84602
 PHONE: (801) 422-5504
 FAX: (801) 422-0566

DATE: 2/14/24
 DESIGNER: S. KING
 DRAWN BY: MDL
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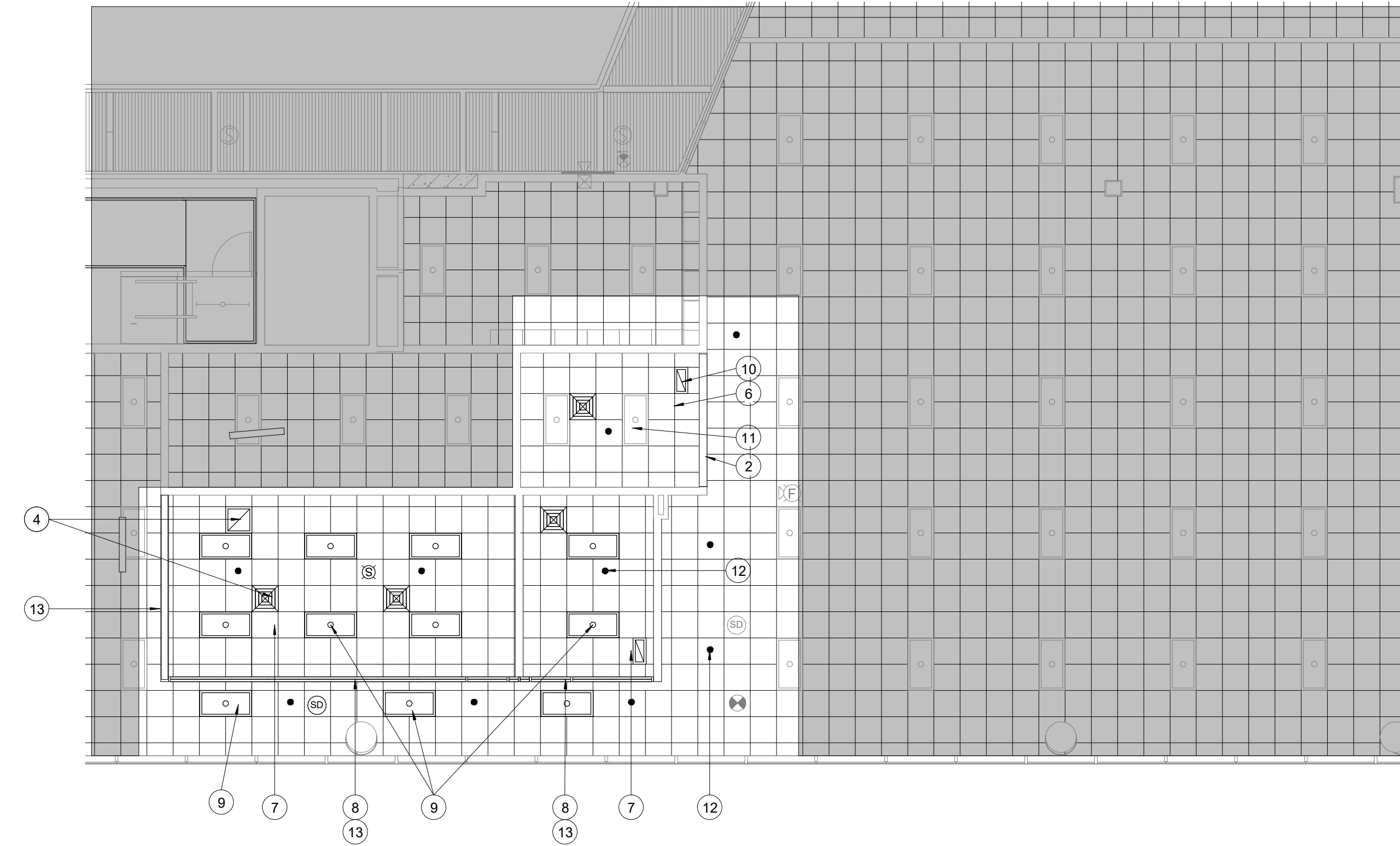
DEMOLITION & NEW
 CEILING PLAN

WORK ORDER & SHEET NO.

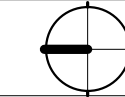
N3482
A2.0

REFERENCE NOTES

- 1 REMOVE AND DISPOSE OF EXISTING 2X2 GRID CEILING WITHIN NEW ROOM FOOTPRINTS
- 2 EXISTING GYP. BD. HEADER TO REMAIN, PATCH AND PAINT AS NEEDED
- 3 REMOVE AND DISPOSE 2X4 LIGHTS, SEE ELECTRICAL PLANS
- 4 EXISTING SUPPLY AND RETURN SYSTEM TO BE MODIFIED FOR NEW LAYOUT, SEE MECHANICAL PLANS
- 5 EXISTING 2X4 LIGHTS TO REMAIN, PROTECT AS REQUIRED
- 6 EXISTING 2X2 GRID CEILING TO REMAIN, PROTECT AS REQUIRED
- 7 PROVIDE AND INSTALL 2X2 CEILING GRID AND TILES TYPICAL THROUGHOUT PROJECT, SEE FINISH SCHEDULE
- 8 NEW 3 5/8" METAL STUD HEADER W/ 5/8" GYP. BD. EACH SIDE W/ SOUND BATT FILLING, PAINTED BOTH SIDES, TO GO 6" ABOVE CEILING GRID, SEE FINISH SCHEDULE/ELEVATIONS.
- 9 PROVIDE AND INSTALL NEW 2X4 LED FLAT PANEL LIGHTS AND ASSOCIATED MOTION SENSORS TO BE INSTALLED TYPICAL THROUGHOUT PROJECT, SEE ELECTRICAL PLANS
- 10 EXISTING SUPPLY AND RETURN SYSTEM TO REMAIN, SEE MECHANICAL PLANS
- 11 EXISTING 2X4 LIGHTING TO REMAIN, SEE ELECTRICAL PLANS
- 12 MODIFY FIRE SPRINKLER SYSTEM PER MECHANICAL PLANS AND TYPICAL THROUGHOUT PROJECT
- 13 EXISTING 2X2 GRID CEILING AND CEILING TILES TO REMAIN AND BUTT TO NEW WALL/HEADER, PATCH AND REPAIR AS NEEDED



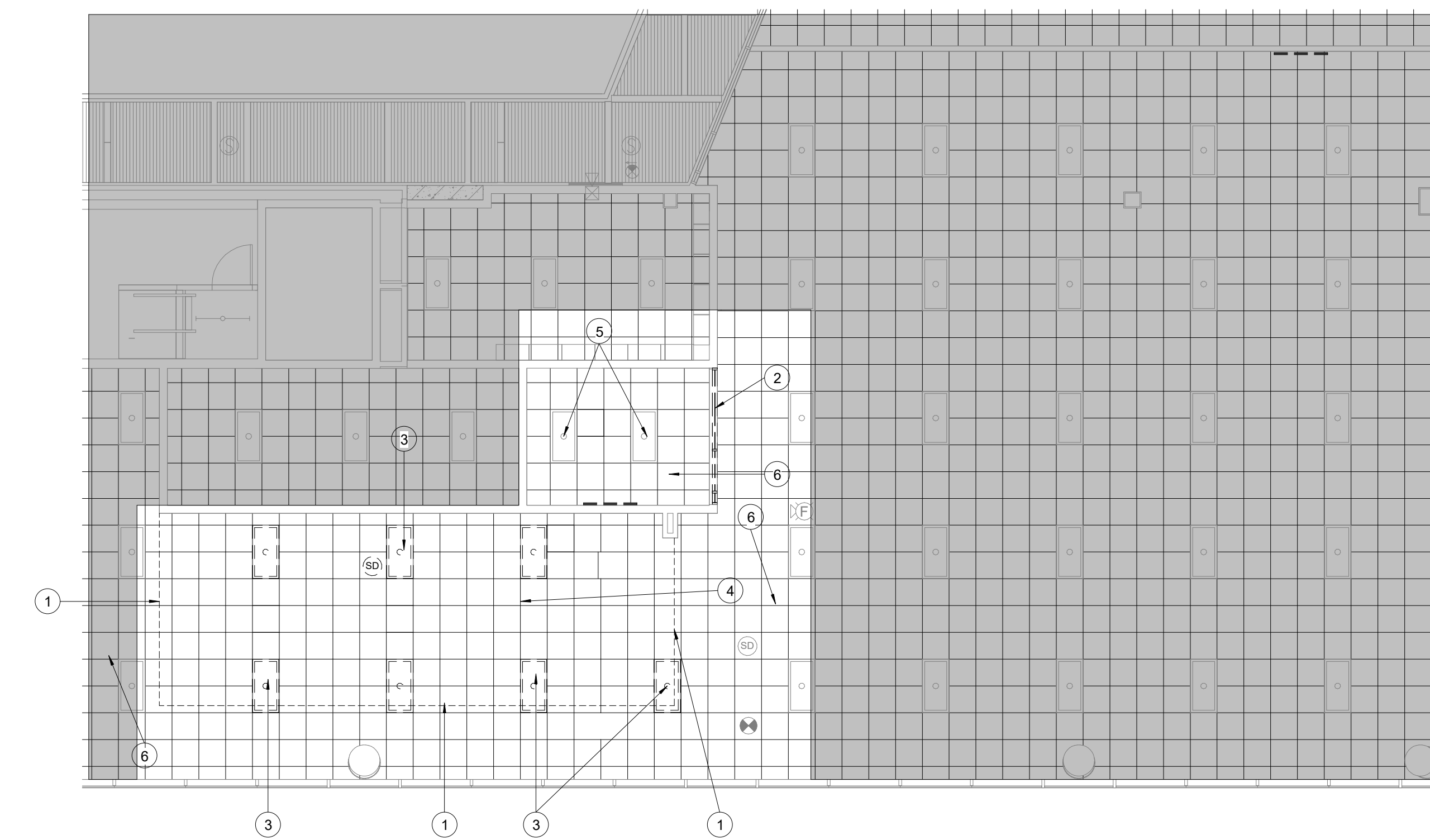
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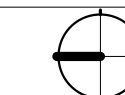
NEW CEILING PLAN

SCALE: 1/8" = 1'-0"

2



0' 1' 2' 5' 10' 20'



DEMOLITION CEILING PLAN

SCALE: 1/8" = 1'-0"

1

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REFERENCE NOTES



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240 BRWB PROVO, UTAH 84602
PHONE: (801) 422-5504
FAX: (801) 422-0566

DATE: 2/14/24
DESIGNER: S.KING
DRAWN BY: S.KING

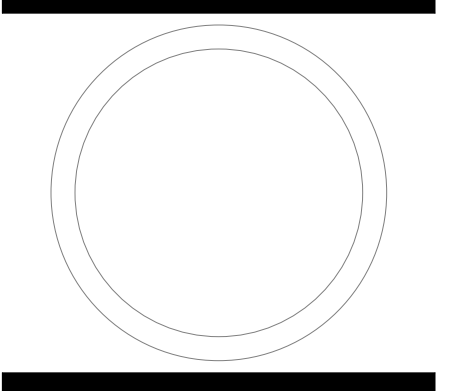
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PLANNING DIR: _____

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REVISIONS

NO.	DESCRIPTION	DATE

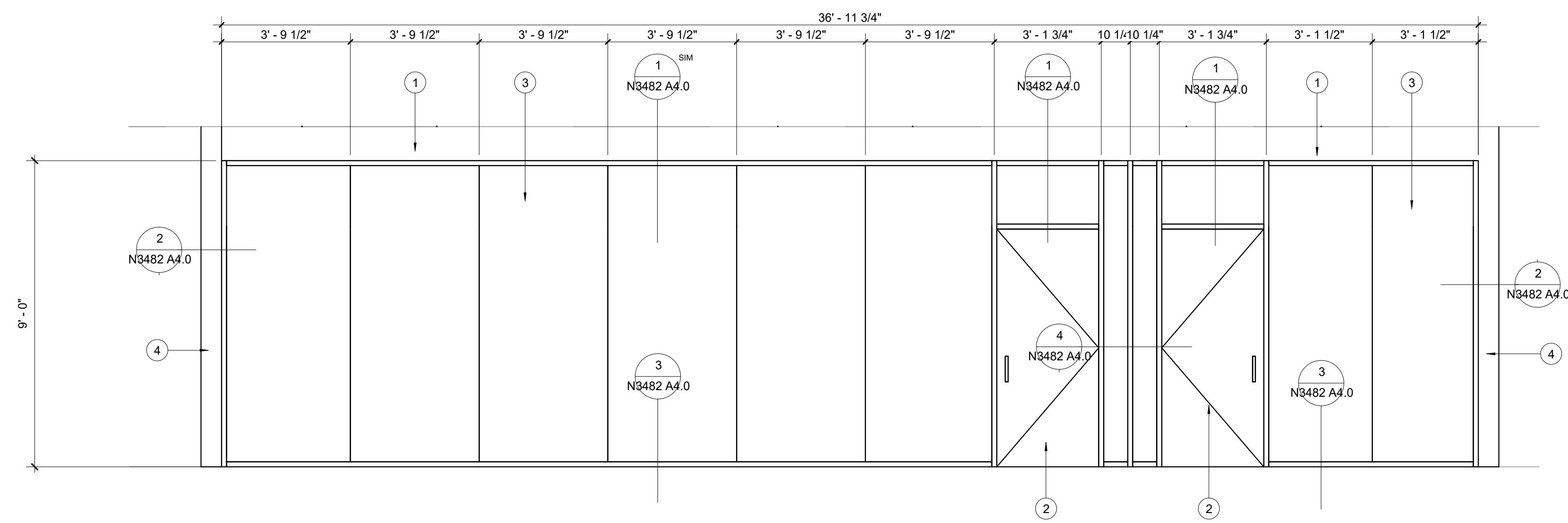
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ELEVATIONS

WORK ORDER & SHEET NO.

**N3482
A3.0**



NORTH ELEVATION VIEW 1
SCALE: 3/8" = 1'-0"

DOOR SCHEDULE

MARK	DR TYPE	FRM TYPE	LOCATION	DOOR SIZE	DOOR MAT'L	FRAME MAT'L	HARDWR GROUP	REMARKS
403A	D1	-	OFFICE 403A	3'-0" x 7'-0" x 1 3/4"	WOOD	ALUM.	H2	
403B	D1	-	CONFERENCE ROOM 403B	3'-0" x 7'-0" x 1 3/4"	WOOD	ALUM.	H2	

HARDWARE GROUPS (LOCKSET CYLINDERS BY OWNER - NIC)

GROUP H1: STORE FRONT DOOR			
(3) EA.	FULL MORTISE - 5 KNUCKLE HINGE	MCKINNEY	TA2714 4 1/2" x 4 1/2" 26D
(1) EA.	LEVER PULL	SCHLAGE	ND92LD RHO 626
(1) EA.	CONCAVE WALL STOP (AS NEEDED)	ROCKWOOD	409 26D
GROUP H2: HALL DOOR			
(6) EA.	FULL MORTISE - 5 KNUCKLE HINGE	MCKINNEY	TA2714 4 1/2" x 4 1/2" 26D
(2) EA.	FLUSH BOLTS	ROCKWOOD	555 26D
(1) EA.	LEVER PULL	SCHLAGE	ND92LD RHO 626
(1) EA.	CONCAVE WALL STOP (AS NEEDED)	ROCKWOOD	409 26D

REFERENCE NOTES



FACILITIES PLANNING
 240 BRWB PROVO, UTAH 84602
 PHONE: (801) 422-5504
 FAX: (801) 422-0566

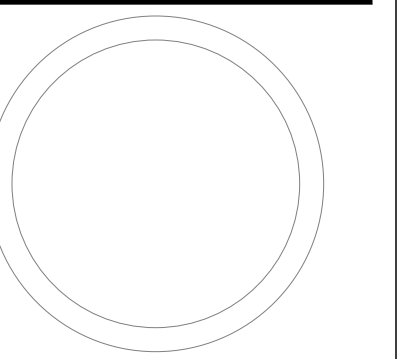
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 DRAWN BY: DC

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 UTILITIES DIR: _____
 PLANNING DIR: _____

CLIENT APPROVAL _____ DATE _____

REVISIONS

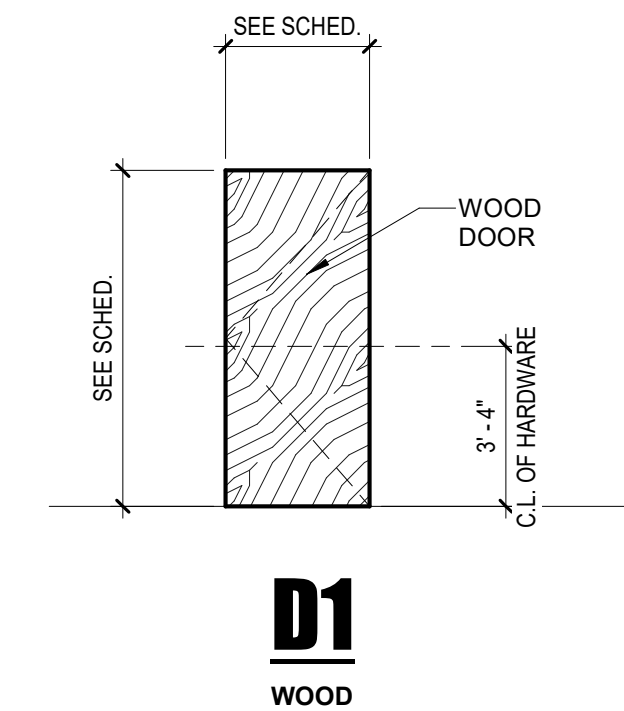
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 CONTINUING EDUCATION OFFICE REMODEL LEVELS 1&4
 CONTINUING EDUCATION
 HARMAN CONTINUING EDUCATION BUILDING - LEVEL 1 - 111 & LEVEL 4 - 403



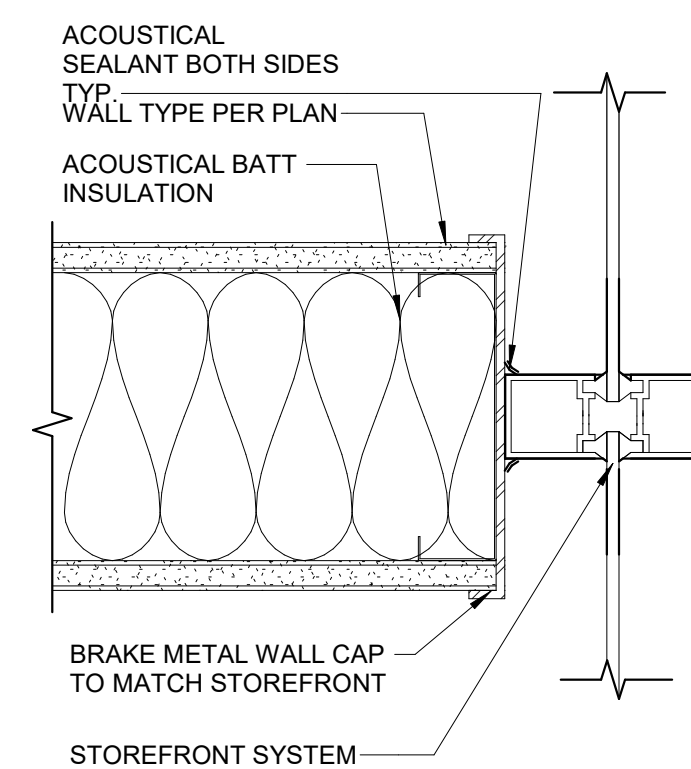
DOOR SCHEDULE, STORE FRONT DETAILS

WORK ORDER & SHEET NO.

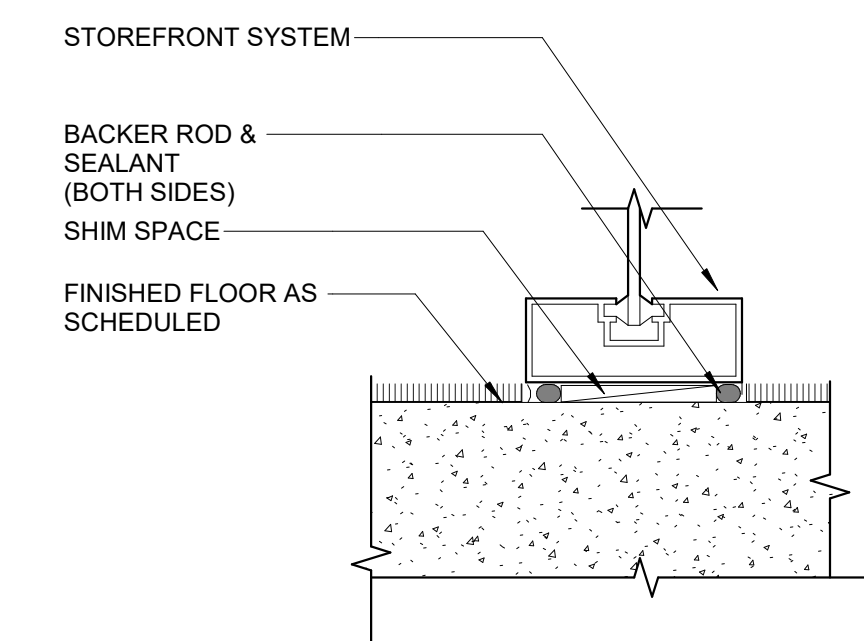
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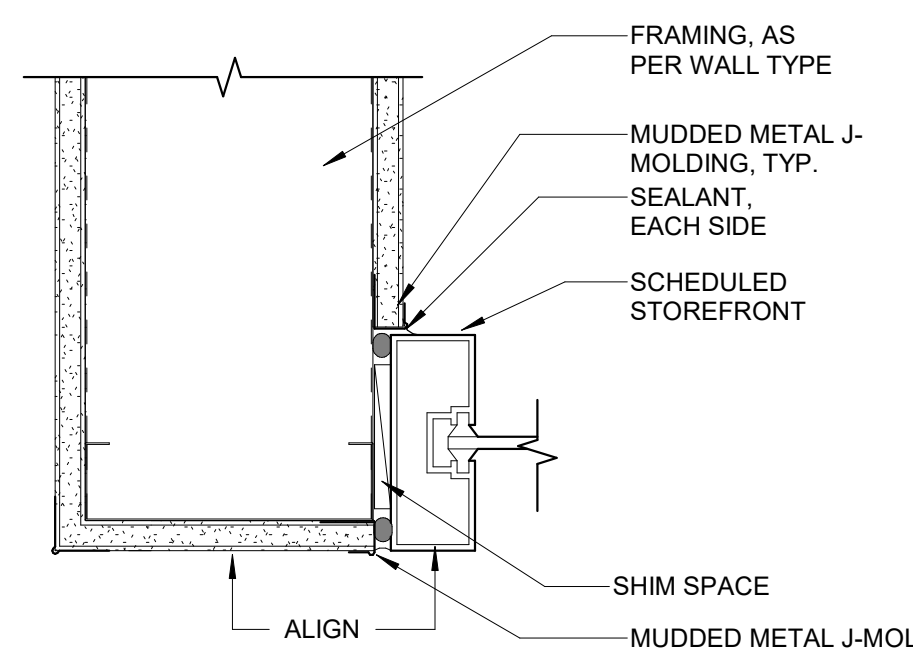
DOOR TYPES 6
 SCALE: 1/4" = 1'-0"



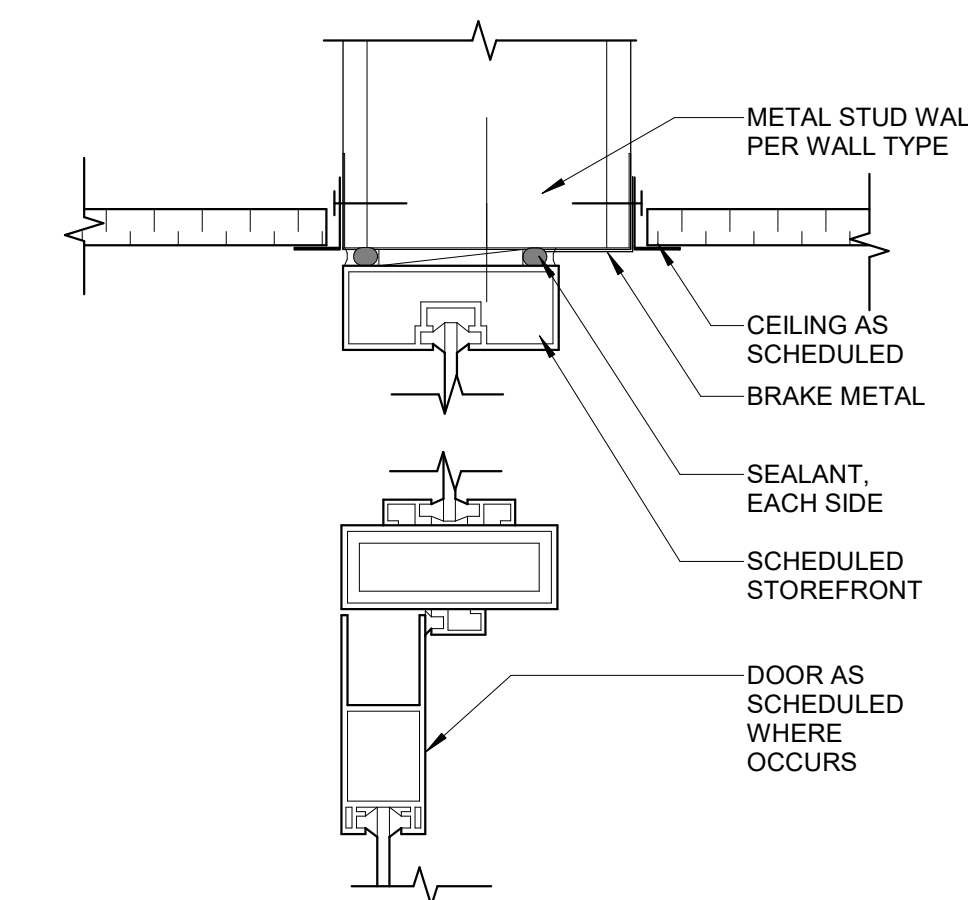
WALL TO MULLION DETAIL 4
 SCALE: 3" = 1'-0"



TYP. INTERIOR STOREFRONT SILL DETAIL 3
 SCALE: 3" = 1'-0"



JAMB DETAIL AT WALL 2
 SCALE: 3" = 1'-0"



HEAD DETAIL 1
 SCALE: 3" = 1'-0"

2.1.0 SUSPENSION SYSTEMS

- A. Components: All main beams and cross tees shall be commercial quality hot-dipped galvanized (galvanized steel, aluminum, or stainless steel) as per ASTM A 653. Main beams and cross tees are double-web steel construction with type exposed flange design. Exposed surfaces chemically cleansed, capping pre-finished galvanized steel (aluminum or stainless steel) in baked polyester paint. Main beams and cross tees shall have rotary stitching (exception: extruded aluminum or stainless steel).
- Structural Classification: ASTM C 635 Heavy Duty.
 - Color: White and match the actual color of the selected ceiling tile.
- B. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.
- C. Wire for Hangers and Ties: ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least three design load, but not less than 12 gauge.
- D. Edge Moldings and Trim: Metal or extruded aluminum of types and profiles indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations, including light fixtures, that fit type of edge detail and suspension system indicated.

2.2 INSTALLATION

- A. Install suspension system and panels in accordance with the manufacturer's instructions, and in compliance with ASTM C 636 and with the authorities having jurisdiction.
- B. Suspend main beam from overhead construction with hanger wires spaced 4-0 on center along the length of the main runner. Install hanger wires plumb and straight.
- C. Install wall moldings at intersection of suspended ceiling and vertical surfaces. Miter corners where wall moldings intersect or install corner caps.
- D. For reveal edge panels: Cut and reveal or rabbet edges of ceiling panels at border areas and vertical surfaces.
- E. Install acoustical panels in coordination with suspended system, with edges resting on flanges of main runner and cross tees. Cut and fit panels neatly against abutting surfaces. Support edges by wall moldings.

REFERENCE NOTES

FINISH SCHEDULE:

WALL PAINT

MAIN COLOR: GREEK VILLA SW 67551L

ACCENT COLOR: MAREA BAJA SW 9185

DOOR

NATURAL WALNUT

MILLWORK

NATURAL WALNUT

SOLID SURFACE

Formica Classics - Luna Concrete 781

STORE FRONT SYSTEM

KAWNEER TRIFAB VG 450 4-1/2" DEEP WITH A 1-3/4" SIGHT LINE - CENTER. CLEAR ANODIZED FINISH

GRID/TILE SYSTEM

TILE: USG FROST 484

GRID: BYU SPEC - WHITE



FACILITIES PLANNING

240 BRWB PROVO, UTAH 84602
PHONE: (801) 422-5504
FAX: (801) 422-0566

DATE: 2/14/24

DESIGNER: S.KING

DRAWN BY: S.KING

ADA CHECK:

CODE CHECK:

STRUCTURAL:

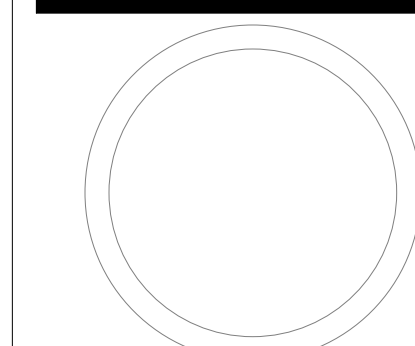
UTILITIES DIR:

PLANNING DIR:

CLIENT APPROVAL DATE

REVISIONS

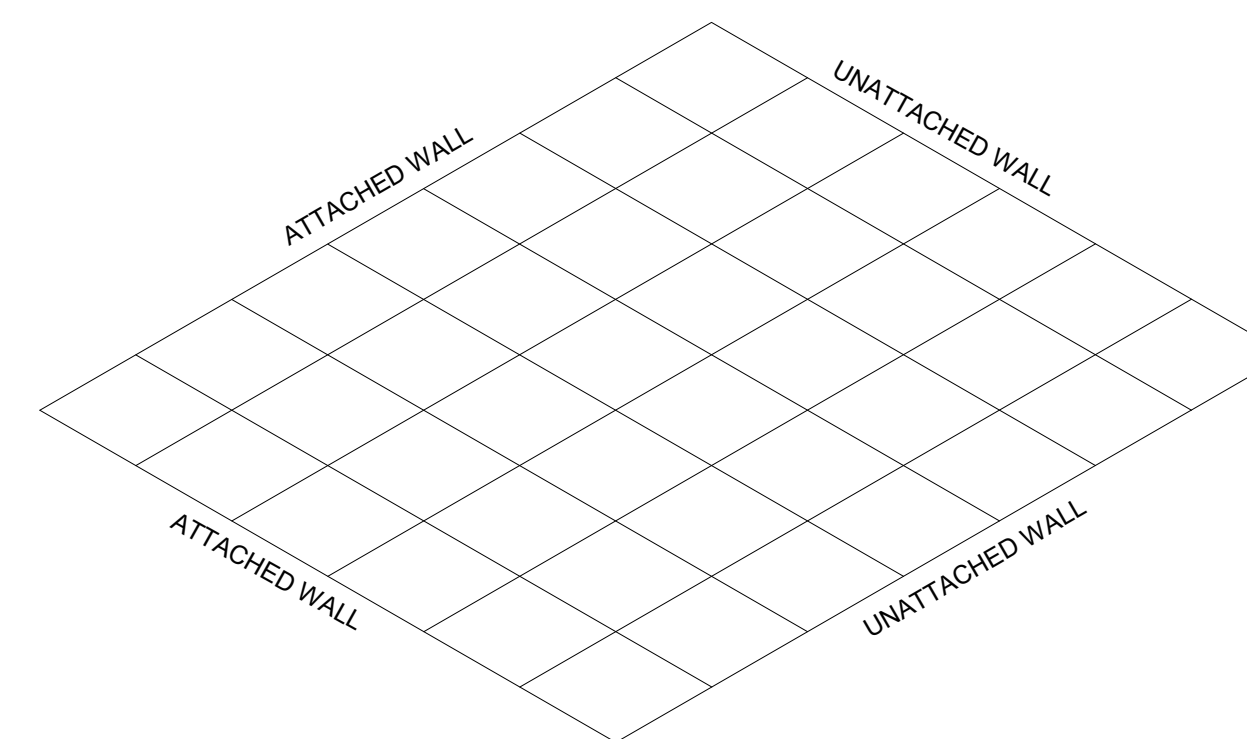
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CEILING DETAILS

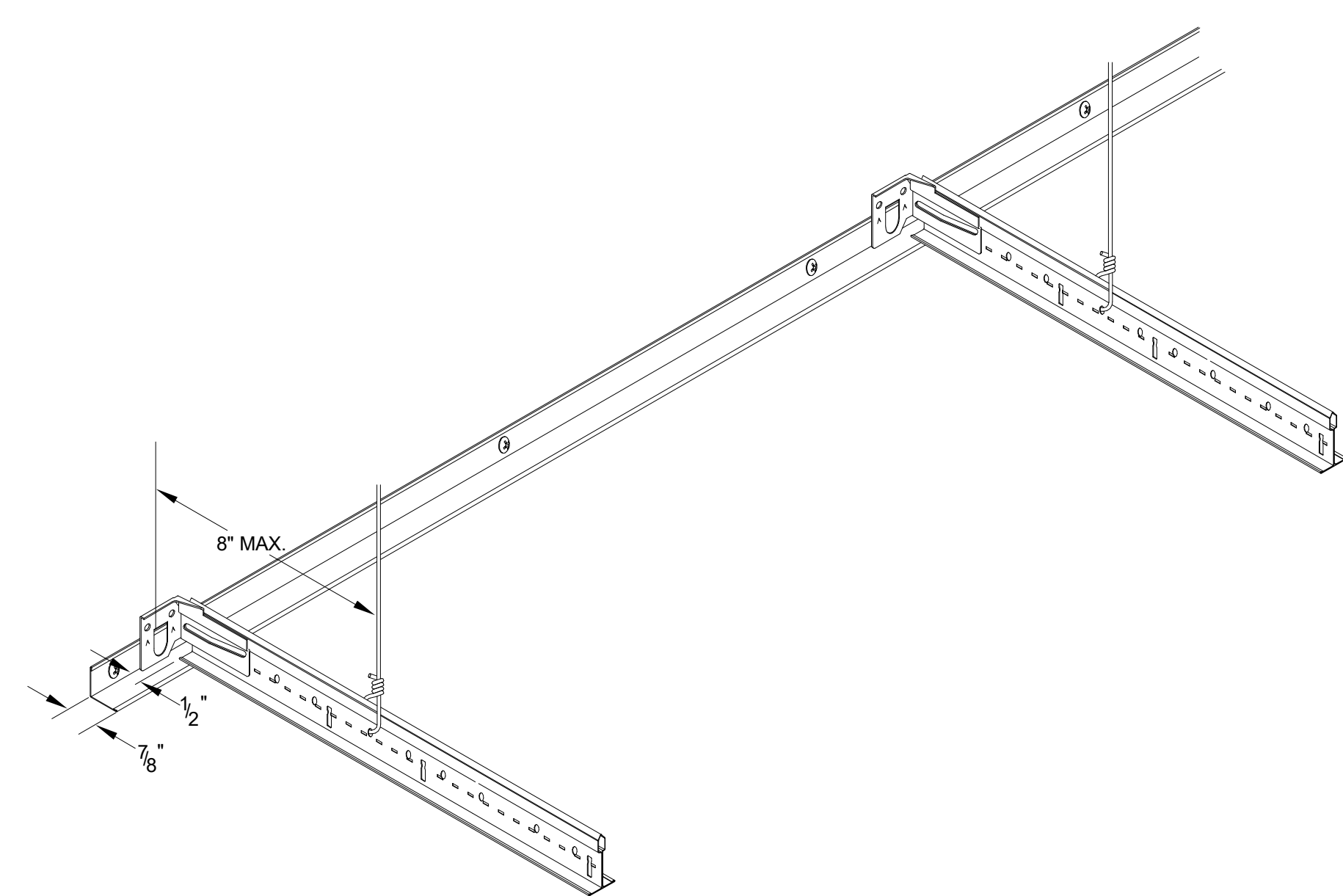
WORK ORDER & SHEET NO.

N3482
A5.0



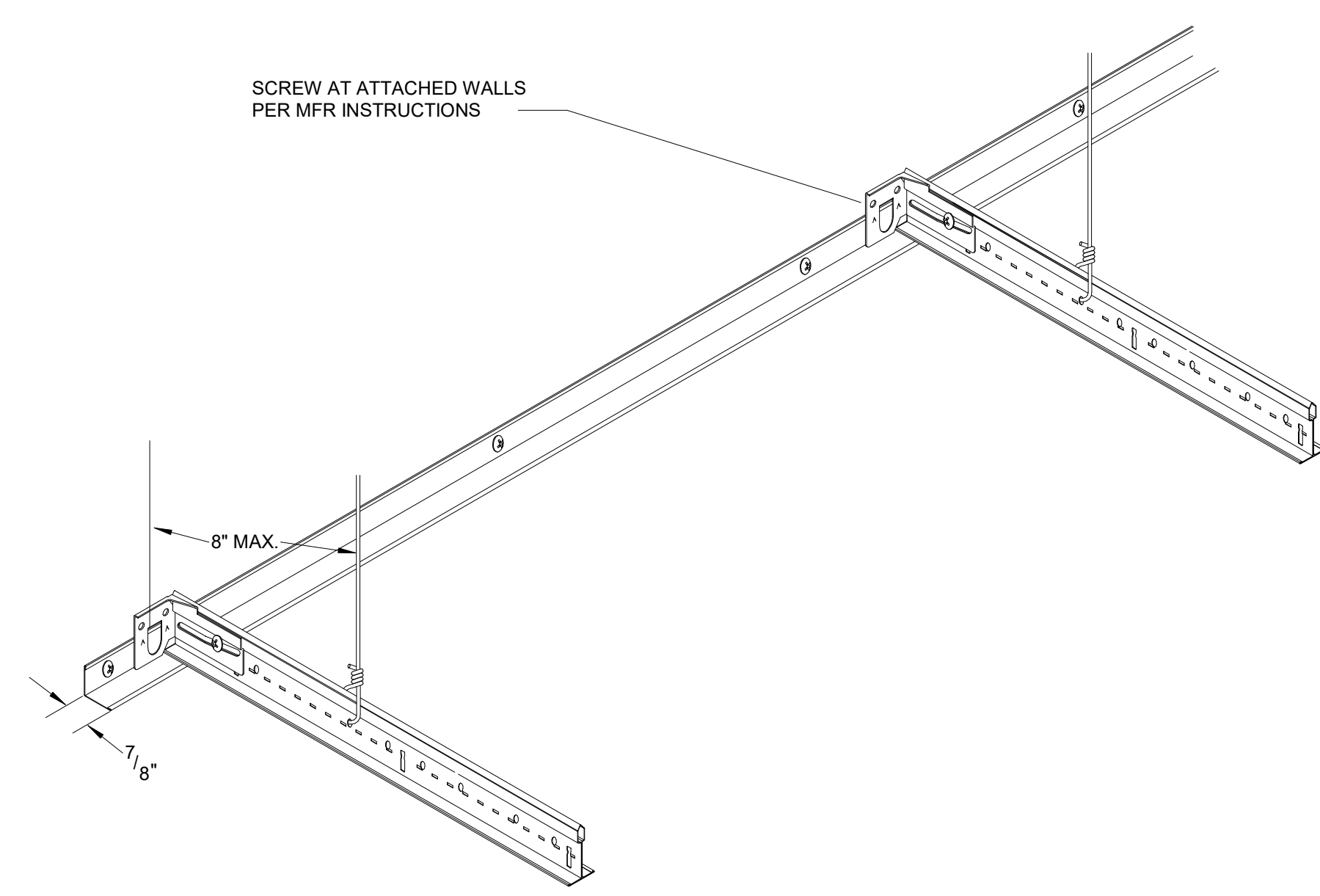
PERIMETER CLIP LAYOUT 6

SCALE: 1" = 1'-0"



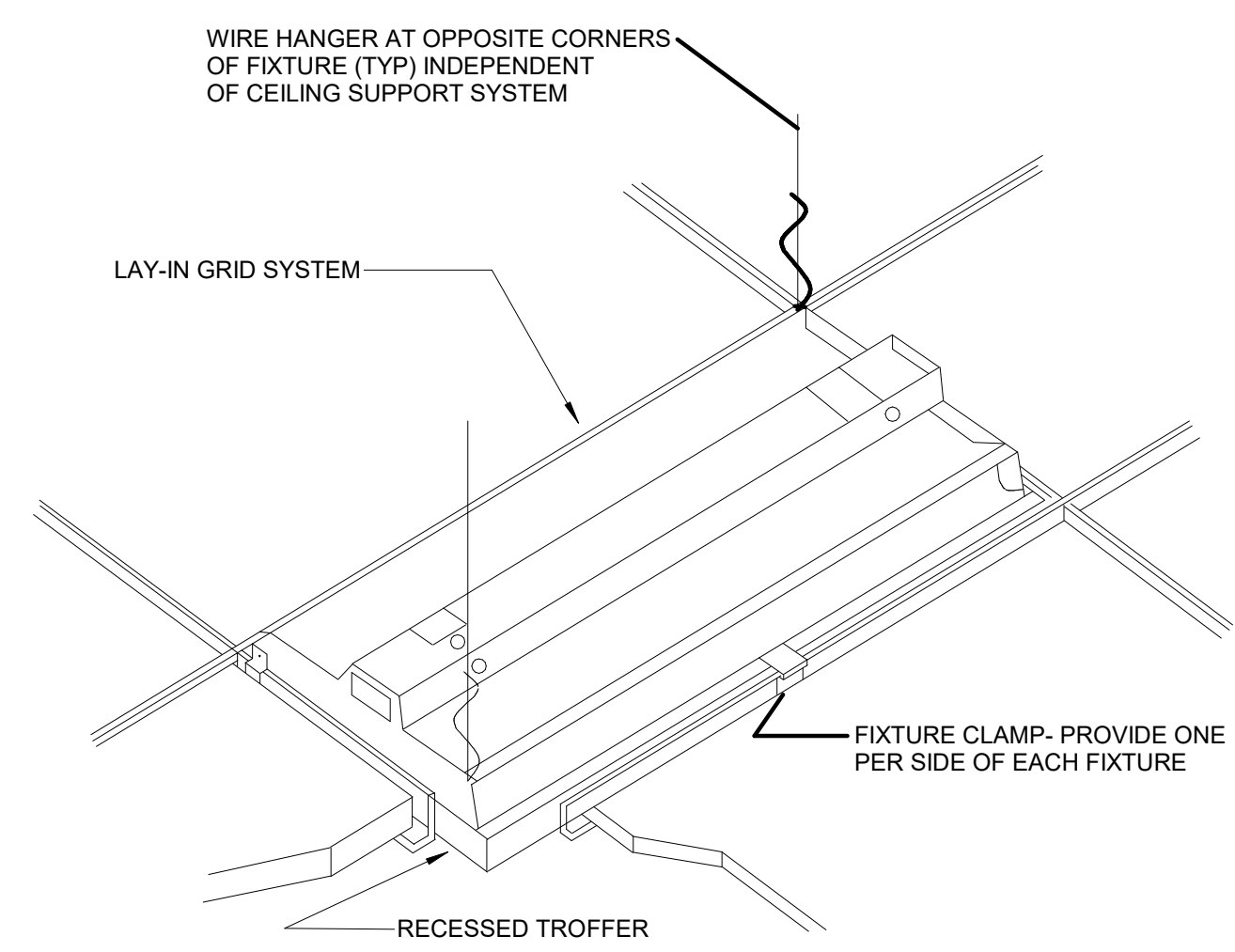
PERIMETER CLIP DETAIL @ UNATTACHED WALL 5

SCALE: 1" = 1'-0"



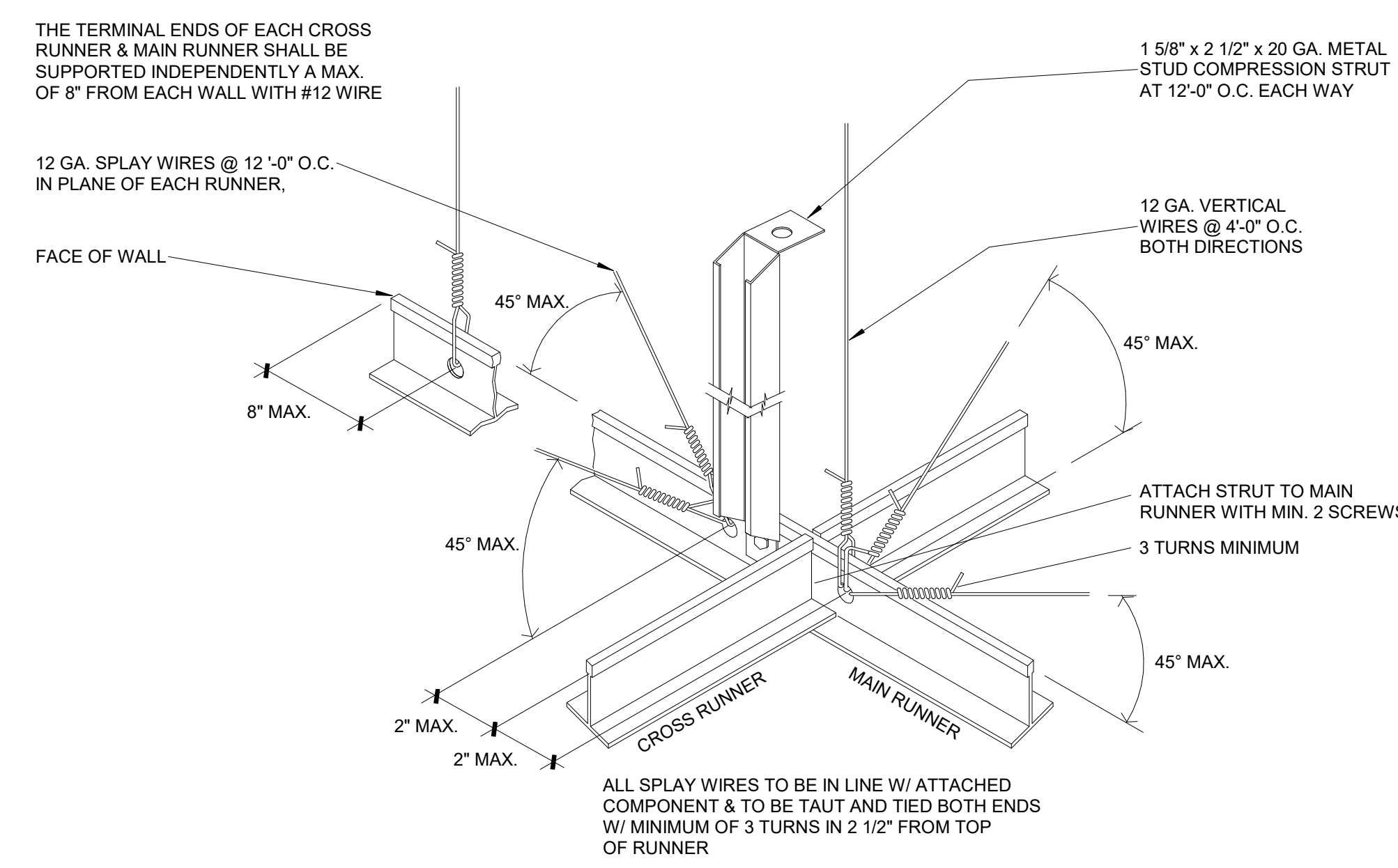
PERIMETER CLIP DETAIL @ ATTACHED WALL 4

SCALE: 1" = 1'-0"



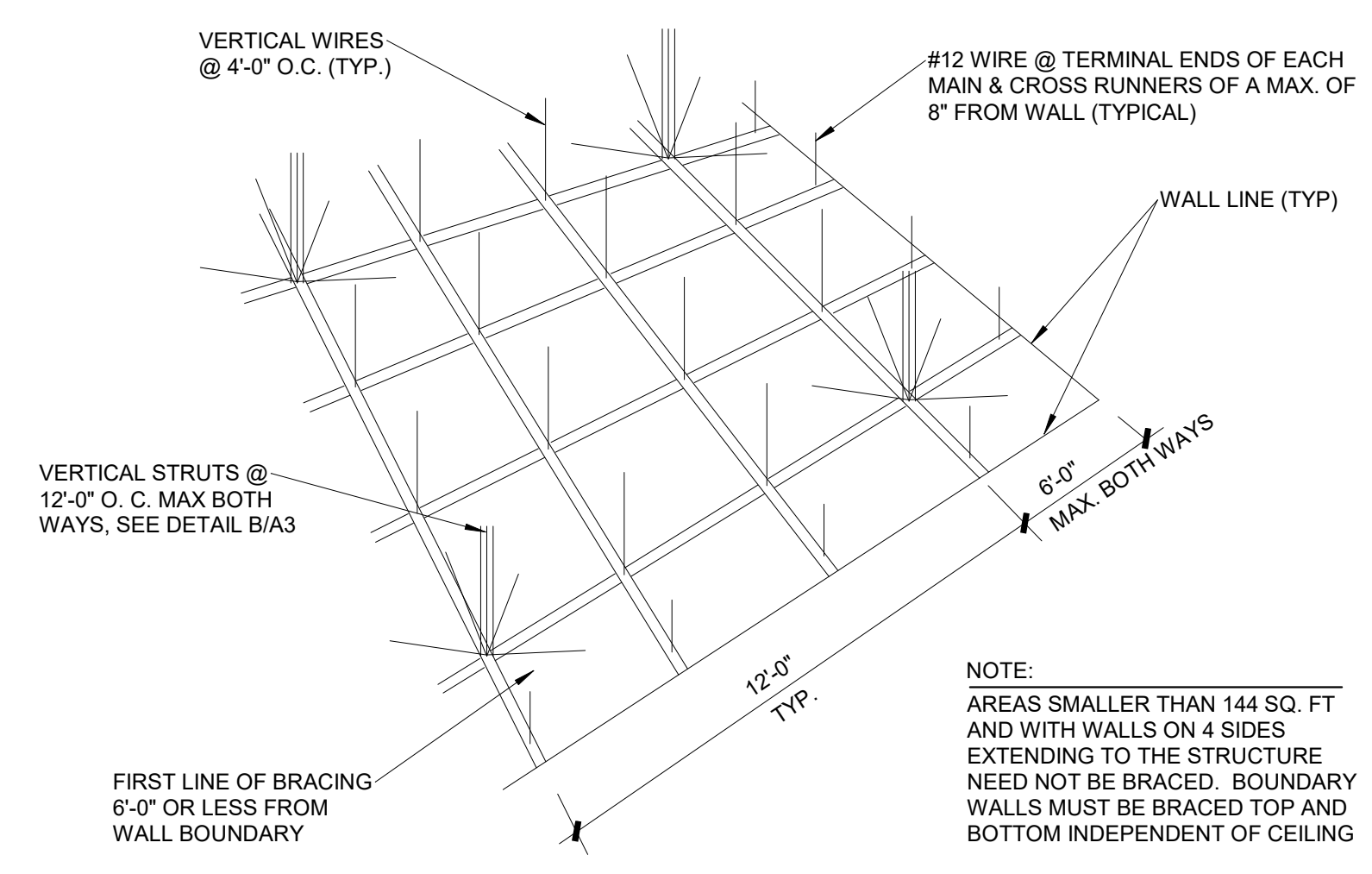
RECESSED LIGHT FIXTURE MOUNTING DETAIL 3

SCALE: 1" = 1'-0"



SEISMIC BRACING 2

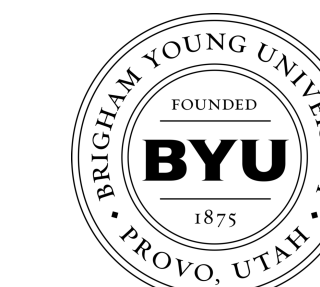
SCALE: 1" = 1'-0"



SEISMIC BRACING LAYOUT 1

SCALE: 1" = 1'-0"

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FACILITIES PLANNING
 240 BRWB PROVO, UTAH 84602
 PHONE: (801) 422-5504
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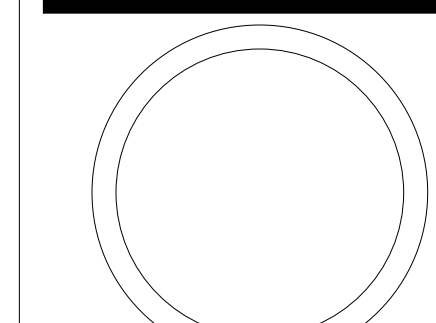
DATE: February 2024
 DESIGNER: J. Jensen
 DRAWN BY: J. Jensen

ADA CHECK:
 CODE CHECK:
 STRUCTURAL:
 UTILITIES DIR:
 PLANNING DIR:

CLIENT APPROVAL DATE

REVISIONS

BRIGHAM YOUNG UNIVERSITY
 RENOVATE TESTING CENTER SPACE INTO OFFICES 111
 CONTINUING EDUCATION
 HARMAN CONTINUING EDUCATION BUILDING (HCEB) - LEVEL 1



MECHANICAL NOTES & SCHEDULES

WORK ORDER & SHEET NO.

**M0
N3482**

CONSTRUCTION DOCS — CONTRACT

AIR HANDLING SYMBOLS	
SYMBOL	DESCRIPTION
	AIR FLOW DIRECTION
	OPPOSED BLADE DAMPER
	PARALLEL BLADE DAMPER
	SUPPLY DUCT (CROSS SECTION)
	RETURN AIR or EXHAUST (CROSS SECTION)
	DUCT SIZE, INSIDE CLEAR DIMENSION
	DUCT w/ACOUSTIC LINING, INSIDE CLEAR DIMENSION
	DUCT RISE
	DROP or RISE IN SUPPLY DUCT
	SLOT SUPPLY DIFFUSER or REGISTER
	CEILING SUPPLY DIFFUSER or REGISTER
	CEILING RETURN/EXHAUST AIR REGISTER or GRILLE
	SIDEWALL SUPPLY DIFFUSER or REGISTER
	SIDEWALL RETURN/EXHAUST AIR REGISTER or GRILLE
	AIR TURNING VANES
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT
	FIRE DAMPER
	HAND DAMPER
	45° SQUARE to SQUARE TAKE-OFF
	45° SQUARE to ROUND TAKE-OFF
	MITCO TYPE VARIABLE AIR VALVE
	VARIABLE VOLUME AIR VALVE
	THERMOSTAT
	SENSOR
	DOOR GRILLE
	UNDER CUT DOOR

MECHANICAL GENERAL NOTES

- PROVIDE BALANCING DAMPER AT EACH BRANCH TAKE-OFF TO SERVE DIFFUSER OR GRILLE AS WELL AS WHERE INDICATED.
- COORDINATE EXACT LOCATION OF DUCTS WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED CEILING, CABLE TRAY, PLUMBING, MECHANICAL PIPING, FIRE PROTECTION, ETC.
- BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK SIZE OF THE DIFFUSER, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE, TYPICAL.
- SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL REGISTERS, DIFFUSERS AND GRILLES.
- DETAILS REFERENCE ALL SHEETS.
- INSTALL ALL HARD ELBOWS AS SHOWN. HARD ELBOWS ARE REQUIRED FOR SOUND ATTENUATION.
- INSTALL EQUIPMENT WITH CLEARANCE PER MANUFACTURERS RECOMMENDATIONS. MAINTAIN PROPER SPACE FOR COIL PULL, CONTROLS, AND MAINTENANCE ACCESS.
- ALL BRANCH TAKE-OFFS TO HAVE A HIGH EFFICIENCY FITTING. SEE DETAIL.
- INSTALL TURNING VANES IN ALL SQUARE LOW PRESSURE DUCTWORK.

MECHANICAL PIPING GENERAL NOTES

- PIPING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY ALL ROUTING AND COORDINATE WITH ALL OTHER TRADES.
- NO PIPING TO RUN DIRECTLY OVER ELECTRICAL PANELS, MCCS OF VFDS. ROUTE AROUND AS REQUIRED.
- INSTALL A MANUAL AIR VENT AT ALL HYDRONIC SYSTEM HIGH POINTS.
- INSTALL ALL EQUIPMENT WITH SUFFICIENT CLEARANCE FOR MAINTENANCE PER MANUFACTURERS RECOMMENDATION. PROVIDE A 24" X 24" ACCESS DOOR BELOW EQUIPMENT BOX AND CONTROL VALVE WHERE INSTALLED OVER NON LAY-IN CEILING AREAS.
- COORDINATE EXACT LOCATION OF THERMOSTATS WITH ARCHITECTURAL FURNISHINGS.
- INSTALL A 24" X 24" ACCESS PANEL BELOW ALL VALVES, CIRCUIT SETTERS, & CONTROL VALVES OVER NON-LAY-IN CEILINGS.
- MECHANICAL PIPING TO BE INSTALLED ABOVE DUCTWORK AND EQUIPMENT EXCEPT WHERE SHOWN.
- FIELD VERIFY ALL EQUIPMENT LOCATIONS.

FIRE PROTECTION GENERAL NOTES

- DRAWING SHOULD NOT BE CONSIDERED AS A SHOP DRAWING. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND COORDINATE ALL PIPING WITH STRUCTURAL, MECHANICAL AND ELECTRICAL. SUBMIT SHOP DRAWINGS FOR FINAL REVIEW.
- OFFSETS ARE TO BE ANTICIPATED IN BRANCH LINES AND ARE TO BE COORDINATED BY THE CONTRACTOR WITH EXISTING CONDITIONS AND OTHER TRADES. MAKE ADDITIONAL OFFSETS AS REQUIRED.
- HANGERS AND BRACING ARE NOT SHOWN ON THIS DRAWING. REFER TO THE SPECIFICATION REQUIREMENTS AND INSTALL ACCORDINGLY.
- ALL HEADS ARE TO BE CONCEALED TYPE, APPROVED SPRINKLERS.
- CONTRACTOR IS TO DEVELOP SHOP DRAWINGS AND HYDRAULIC CALCULATIONS CONFORMING TO NFPA 13. ADDITIONAL HEADS AND/OR PIPING REQUIRED TO MEET SAID STANDARDS IS THE RESPONSIBILITY OF THE CONTRACTOR. LOCATION OF ADDITIONAL HEADS ARE TO BE COORDINATED WITH ARCHITECT AND ENGINEER AND SUBMITTED FOR THEIR REVIEW.
- NO FIRE PROTECTION LINE IS TO BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES: DUCTWORK, MECHANICAL PIPING, AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION PIPING. FAILURE TO COMPLY WILL RESULT IN FIRE PROTECTION REMOVAL AND REINSTALLATION AT THE FIRE PROTECTION CONTRACTORS EXPENSE.

BALANCE VALVE SCHEDULE			
MARK	SIZE	GPM for 1-5 ft. HD	QTY
BV1	1/2"	0.5 - 2.5	1
BV2	3/4"	2 - 5	-
BV3	1"	4 - 9.5	-

HYDRONIC CONTROL VALVE SCHEDULE							
MARK	Cv	SIZE	FLOW RANGE (GPM)	TYPE	ACT.	USE	QTY
CB1	< 1.6	1/2"	0.5 - 3.5	BALL	A3	RH	1
CB2	1.6 - 2.5	1/2"	3.6 - 5.6	BALL	-	-	-
CB3	2.5 - 4	1/2"	5.7 - 8.9	BALL	-	-	-
CB4	5 - 10	1/2"	9.0 - 22	BALL	-	-	-
CB5		3/4"		BALL	-	-	-

ACTUATORS:
 A1- NORMALLY OPEN, SPRING RETURN (AHU HW COILS)
 A2- NORMALLY CLOSED, SPRING RETURN (AHU CHW COILS)
 A3- ON/OFF, FLOATING POINT, NON-SPRING RETURN (RE-HEAT COILS)

USE:
 CHW CHILLED WATER
 HW HOT WATER
 PH PRE-HEAT
 RH REHEAT COILS

NIC (NOT-IN-CONTRACT) COORDINATION LIST					
Item	Furnished by BYU	Installed by BYU / BYU Vendor	Installed by General Contractor	Furnished by General Contractor	Notes
Mechanical Controls Hardware (both system and terminal units) by Atkinson or Johnson Controls	x		x		
Mechanical Controls Raceway			x	x	
Mechanical Controls Programming (Software - both system and terminal units) by Atkinson or Johnson Controls	x	x			

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE				
ID	MANUFACTURER	MODEL	DESCRIPTION	
CD	EH PRICE	SPD	FACE STYLE: SQUARE PLAQUE DIFFUSER FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING SPACE AVAILABLE MATERIAL: STEEL FINISH: B12 WHITE POWDERCOAT	MOUNTING-FRAME: SURFACE OR LAY-IN, (C/W CEILING TYPE.) PATTERN: 360° RADIAL HORIZONTAL AIR PATTERN DAMPER: OPPOSED BLADE MAX NC - 30 DAMPER: NONE REMOVABLE FACE
RG	EH PRICE	PDDR	FACE STYLE: PERFORATED RETURN AIR UNIT FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING SPACE AVAILABLE. APPLICATION: AIR RETURN / EXHAUST MATERIAL: STEEL FINISH: B12 WHITE POWDERCOAT	MOUNTING-FRAME: SURFACE OR LAY-IN, (C/W CEILING TYPE.) DAMPER: NONE MAX NC - 30 REMOVABLE FACE & CORE

VAV BOX SCHEDULE															
NAME	MANUF. AND MODEL NO.	UNIT / INLET SIZE (IN)	COOLING AIR FLOW RATE (CFM)	HEATING AIR FLOW RATE (CFM)	MINIMUM AIR FLOW RATE (CFM)	ENTERING AIR TEMP DB (DEG. F)	S.P. LOSS AT MAX CFM (INWG)	NC AT 1.25 INWG	FLUID			MAX. FLUID PRESSURE DROP (FT)	NUMBER OF COIL ROWS	PIPE SIZE (IN)	REMARKS
									HEAT LOAD (MBH)	FLOW RATE (GPM)	EWT (DEG. F)				
VR1	PRICE SDV	8	460	280	95	52	0.30	31	14.7	1	180	1	2	3/4	1, 2

- PROVIDE WITH REHEAT COILS AS SEPARATE ITEM MOUNTED 12" DOWNSTREAM FROM VAV BOX WITH ACCESS PANEL. SEE DETAIL.
- HEATING IS BASED ON 100 DEGREES F LEAVING AIR TEMPERATURE.

VAV BOX SCHEDULE

NAME	MANUF. AND MODEL NO.	UNIT / INLET SIZE (IN)	COOLING AIR FLOW RATE (CFM)	HEATING AIR FLOW RATE (CFM)	MINIMUM AIR FLOW RATE (CFM)	ENTERING AIR TEMP DB (DEG. F)	S.P. LOSS AT MAX CFM (INWG)	NC AT 1.25 INWG	FLUID HEAT LOAD (MBH)	FLOW RATE (GPM)	EWT (DEG. F)	MAX. FLUID PRESSURE DROP (FT)	NUMBER OF COIL ROWS	PIPE SIZE (IN)	REMARKS
VR1	PRICE SDV	8	460	280	95	52	0.30	31	14.7	1	180	1	2	3/4	1, 2

1. PROVIDE WITH REHEAT COILS AS SEPARATE ITEM MOUNTED 12" DOWNSTREAM FROM VAV BOX WITH ACCESS PANEL. SEE DETAIL.
2. HEATING IS BASED ON 100 DEGREES F LEAVING AIR TEMPERATURE.

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

ID	MANUFACTURER	MODEL	DESCRIPTION
CD	EH PRICE	SPD	FACE STYLE: SQUARE PLAQUE DIFFUSER FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING SPACE AVAILABLE MATERIAL: STEEL FINISH: B12 WHITE POWDERCOAT MOUNTING-FRAME: SURFACE OR LAY-IN, (C/W CEILING TYPE.) PATTERN: 360° RADIAL HORIZONTAL AIR PATTERN DAMPER: OPPOSED BLADE MAX NC - 30 DAMPER: NONE REMOVABLE FACE
RG	EH PRICE	PDDR	FACE STYLE: PERFORATED RETURN AIR UNIT FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING SPACE AVAILABLE. APPLICATION: AIR RETURN / EXHAUST MATERIAL: STEEL FINISH: B12 WHITE POWDERCOAT MOUNTING-FRAME: SURFACE OR LAY-IN, (C/W CEILING TYPE.) DAMPER: NONE MAX NC - 30 REMOVABLE FACE & CORE

NIC (NOT-IN-CONTRACT) COORDINATION LIST

Item	Furnished by BYU	Installed by BYU / BYU Vendor	Installed by General Contractor	Furnished by General Contractor	Notes
Mechanical Controls Hardware (both system and terminal units) by Atkinson or Johnson Controls	x		x		
Mechanical Controls Raceway			x	x	
Mechanical Controls Programming (Software - both system and terminal units) by Atkinson or Johnson Controls	x	x			

BALANCE VALVE SCHEDULE

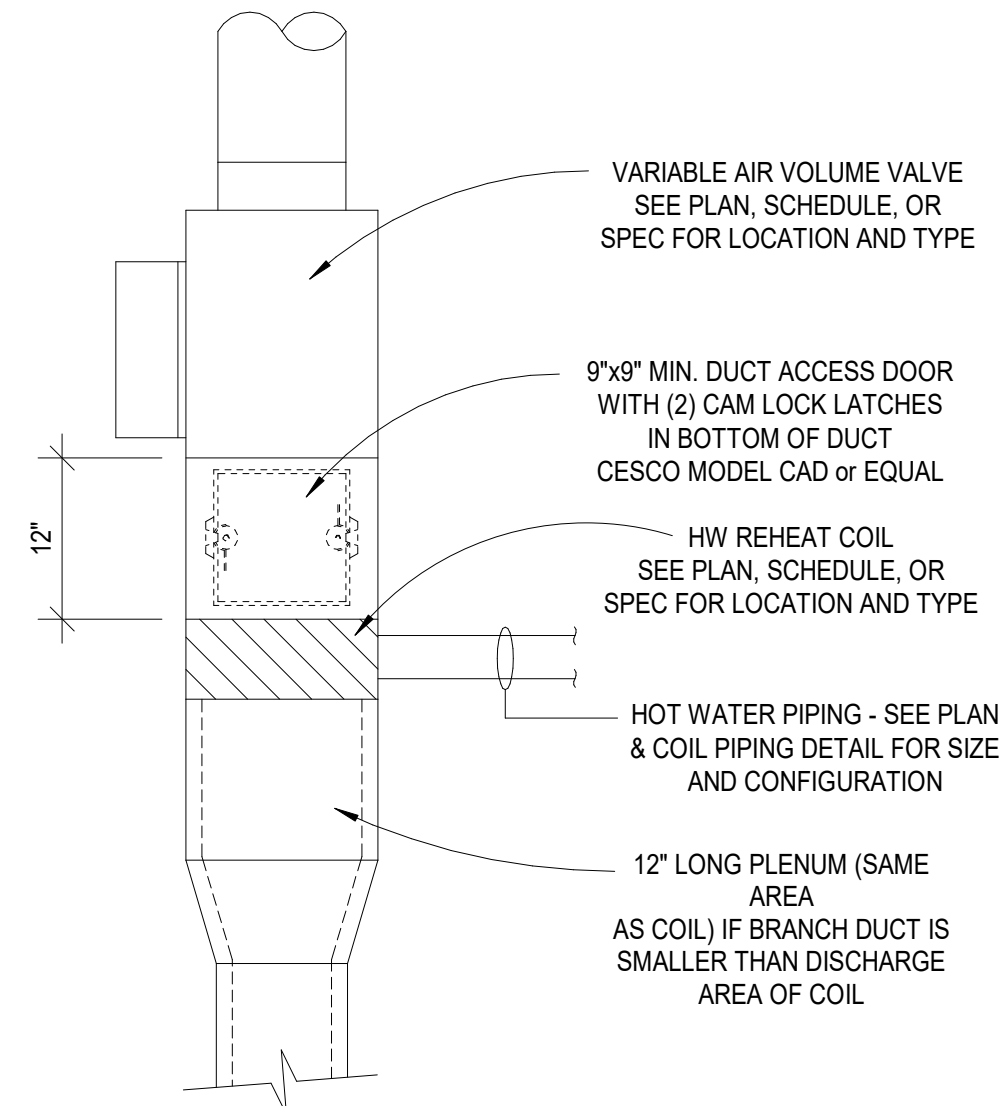
MARK	SIZE	GPM for 1-5 ft. HD	QTY
BV1	1/2"	0.5 - 2.5	1
BV2	3/4"	2 - 5	-
BV3	1"	4 - 9.5	-

HYDRONIC CONTROL VALVE SCHEDULE

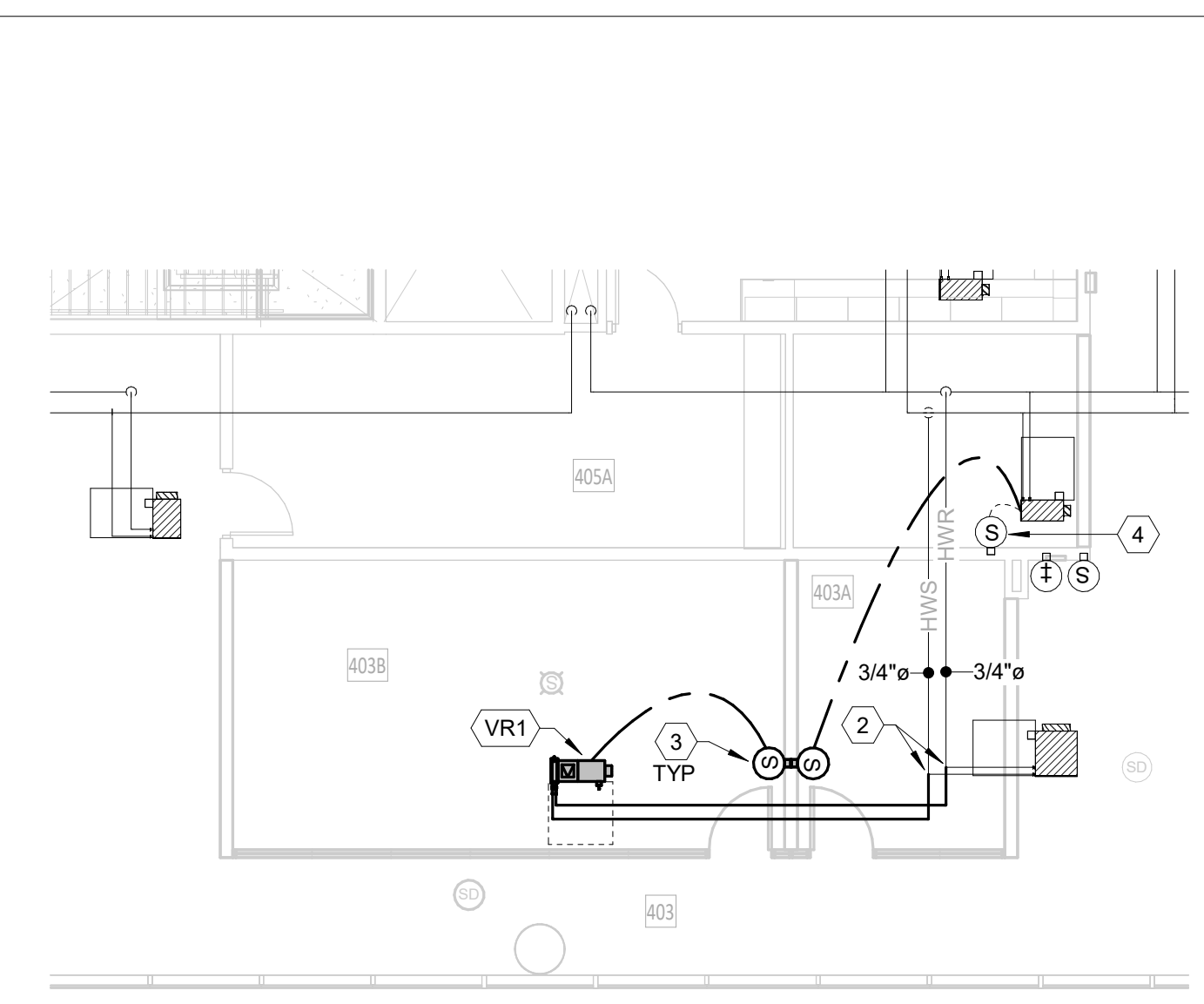
MARK	Cv	SIZE	FLOW RANGE (GPM)	TYPE	ACT.	USE	QTY
CB1	< 1.6	1/2"	0.5 - 3.5	BALL	A3	RH	1
CB2	1.6 - 2.5	1/2"	3.6 - 5.6	BALL	-	-	-
CB3	2.5 - 4	1/2"	5.7 - 8.9	BALL	-	-	-
CB4	5 - 10	1/2"	9.0 - 22	BALL	-	-	-
CB5		3/4"		BALL	-	-	-

ACTUATORS:
A1- NORMALLY OPEN, SPRING RETURN (AHU HW COILS)
A2- NORMALLY CLOSED, SPRING RETURN (AHU CHW COILS)
A3- ON/OFF, FLOATING POINT, NON-SPRING RETURN (RE-HEAT COILS)

USE:
CHW: CHILLED WATER
HW: HOT WATER
PH: PRE-HEAT
RH: REHEAT COILS



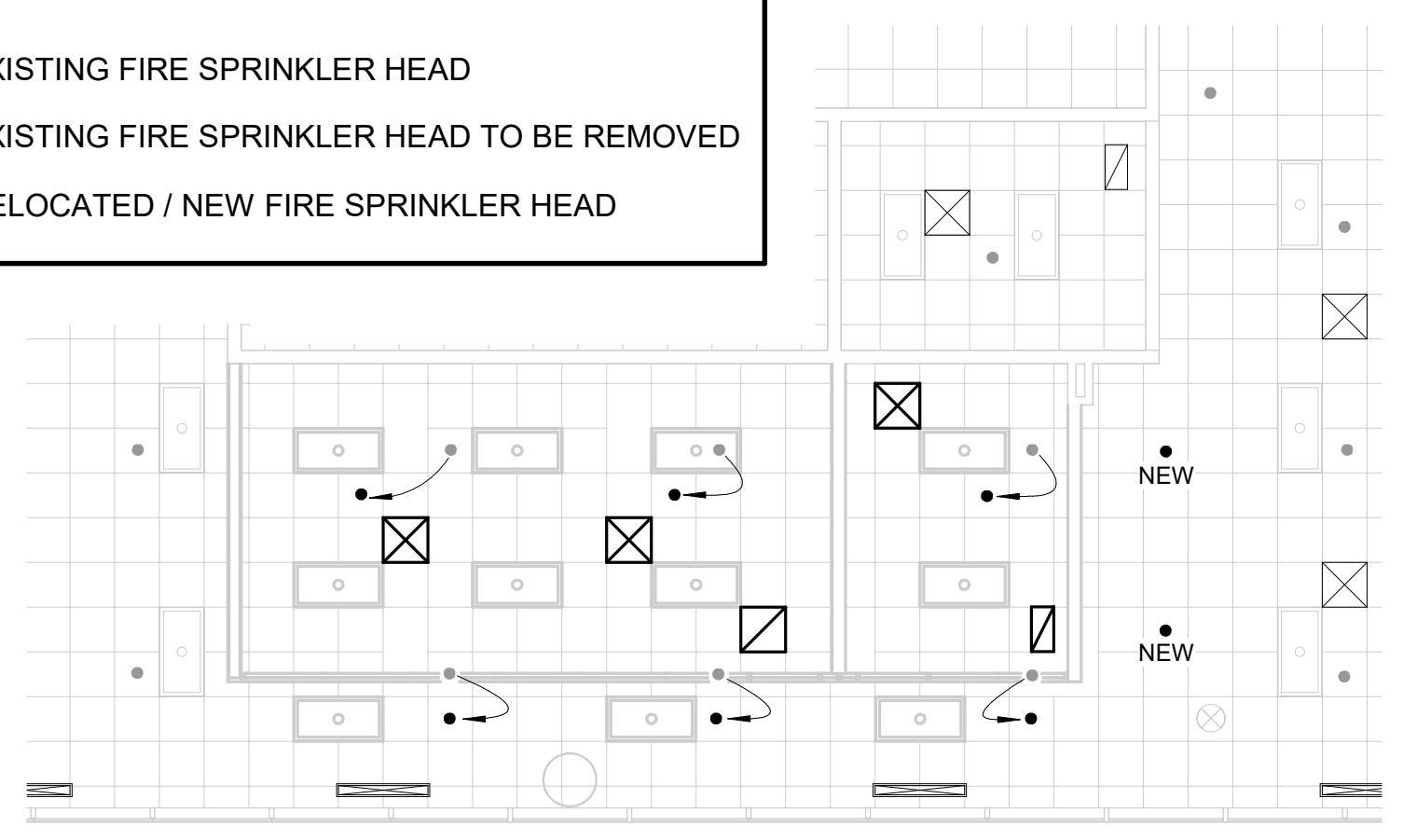
VAV BOX w/REHEAT COIL DETAIL
SCALE NTS



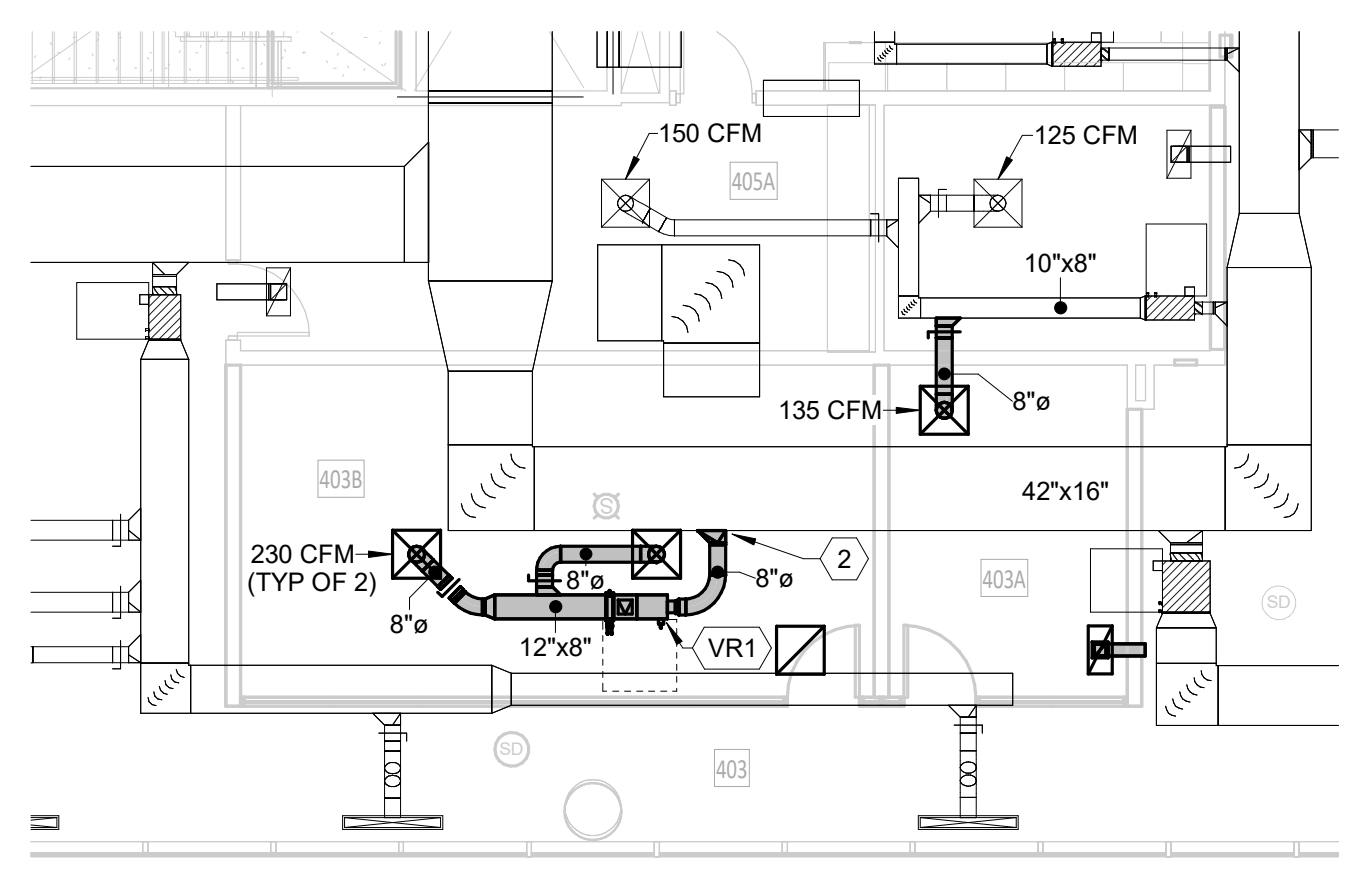
N3482 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0" 4

FIRE SPRINKLER LEGEND

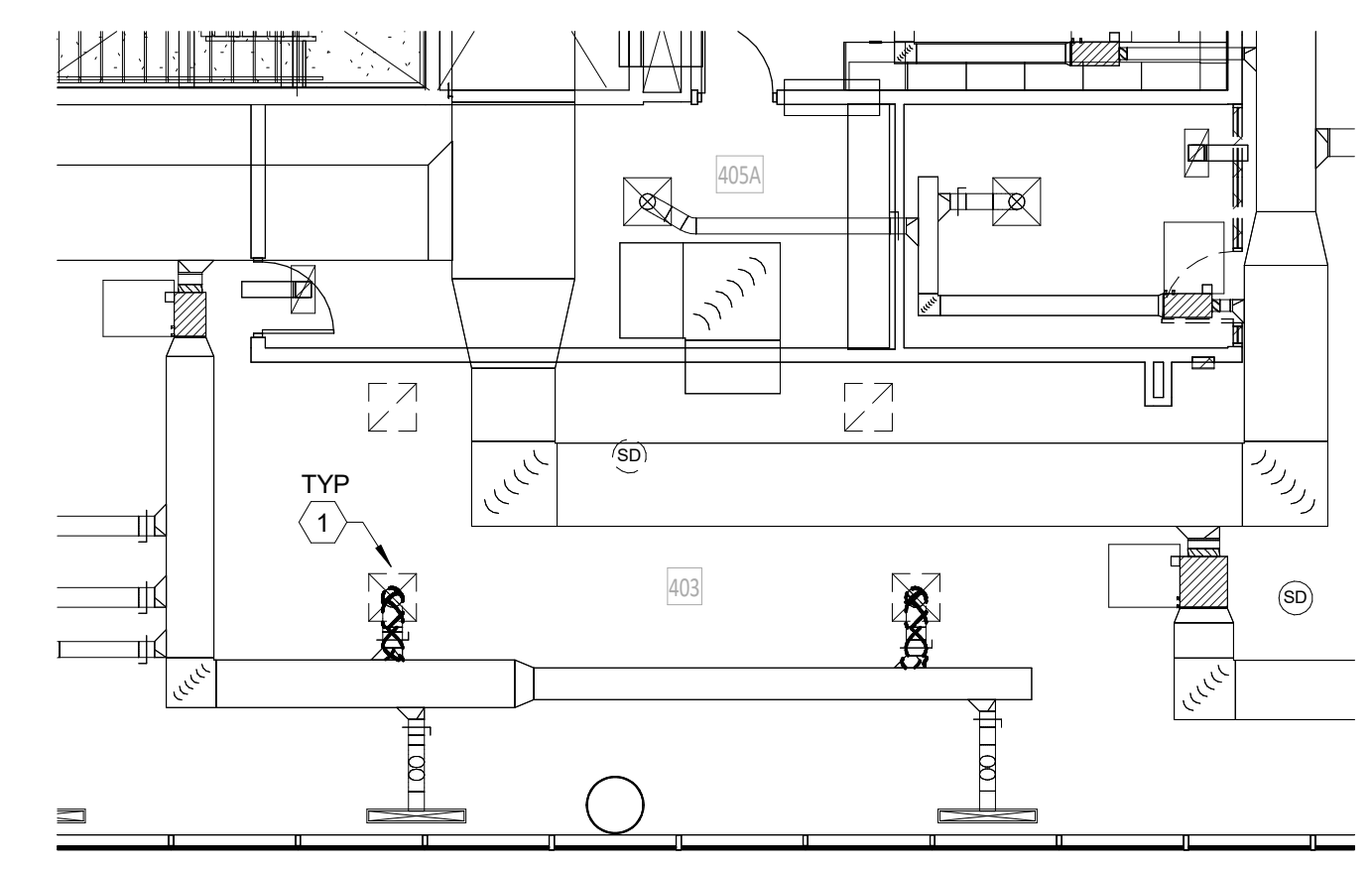
- EXISTING FIRE SPRINKLER HEAD
- ⊗ EXISTING FIRE SPRINKLER HEAD TO BE REMOVED
- RELOCATED / NEW FIRE SPRINKLER HEAD



N3482 MECHANICAL REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0" 3



N3482 MECHANICAL PLAN
SCALE: 1/8" = 1'-0" 2



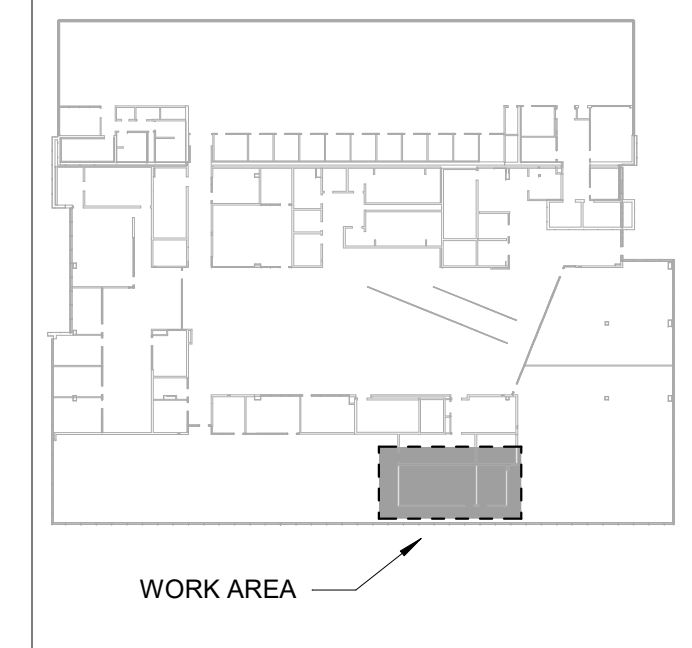
N3482 MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0" 1

- ### REFERENCE NOTES
- REMOVE EXISTING DUCTWORK BACK TO ACTIVE MAINS AND CAP. FIELD VERIFY EXISTING CONDITIONS.
 - CONNECT TO EXISTING. FIELD VERIFY EXISTING CONDITIONS.
 - INSTALL NEW THERMOSTAT. COORDINATE EXACT WALL PLACEMENT WITH ARCHITECTURAL.
 - UPGRADE EXISTING THERMOSTAT TO AVERAGING THERMOSTAT.

GENERAL NOTES

- ALL SUPPLY DIFFUSERS SHALL BE CD AS SCHEDULED. ALL RETURN AIR GRILLES SHALL BE RG AS SCHEDULED.
- ALL RETURN TRANSFER DUCT BRANCHES ARE 6"x6" UNLESS OTHERWISE NOTED. CONTROL VALVES AND BALANCE VALVES FOR VAV BOXES WILL BE CB1 AND BV1. SEE SCHEDULES.
- INSULATE ALL NEW OR REPAIRED AND UNLINED SUPPLY AIR DUCTWORK WITH 1" THICK FIBERGLASS INSULATION WITH ALUMINUM FOIL SCRIM KRAFT FACING AND A DENSITY OF 1.5 LB/FT³. COORDINATE ALL DIFFUSER LOCATIONS WITH LIGHTING LAYOUT.
- LAY OUT ALL DUCTWORK SUCH THAT DUCT RUN-OUTS OR DROPS TO DIFFUSERS ARE ALIGNED TO AVOID UNNECESSARY OFFSETS. USE FLEXIBLE DUCT ONLY WHERE HARD DUCTING IS NOT POSSIBLE. FLEXIBLE DUCT SHALL BE INSTALLED SUCH THAT THE CENTER LINE OF THE DIFFUSER NECK SHALL NOT BE OFFSET FROM THE CENTER LINE OF THE DUCT ELBOW BY MORE THAN ONE DUCT RADIUS. NO MORE THAN 24" MAXIMUM LENGTH OF FLEX DUCT AND NO FLEX DUCT ELBOWS ALLOWED.
- THE JOINTS AND SEAMS OF ALL SUPPLY AIR DUCTWORK SHALL BE SEALED. MASTIC SEALING COMPOUND SHALL BE DURODYNE S-2, 3M EC-750, IRON GRIP 601 or HARDCAST TWO-PART SYSTEM II.
- AIR BALANCE ALL DIFFUSERS AND VAV BOXES TO AIR VOLUMES NOTED IN SCHEDULE OR ON PLANS.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL DIFFUSERS, GRILLES, FIRE SPRINKLERS, ETC.
- ALL NEW FIRE SPRINKLER HEADS IN OFFICES WITH LAY-IN CEILINGS SHALL BE CONCEALED TYPE WITH A FRANGIBLE GLASS BULB AND A WHITE COVER PLATE ASSEMBLY.
- ALL NEW OR REPAIRED PIPING SHALL BE INSULATED WITH 1" THICK, SNAP-ON PIPE INSULATION WITH A PVC VAPOR JACKET. FURNISH & INSTALL A PVC JACKET ON ALL FITTINGS.
- INSTALL DIELECTRIC UNIONS AT ALL NEW CONNECTIONS BETWEEN NEW COPPER PIPES AND EXISTING GALVANIZED STEEL PIPING.

LOCATION PLAN



HCEB — LEVEL 4



FACILITIES PLANNING
240 BRWB PROVO, UTAH 84602
PHONE: (801) 422-5504
FAX: (801) 422-0566

DATE: February 2024
DESIGNER: J. Jensen
DRAWN BY: J. Jensen

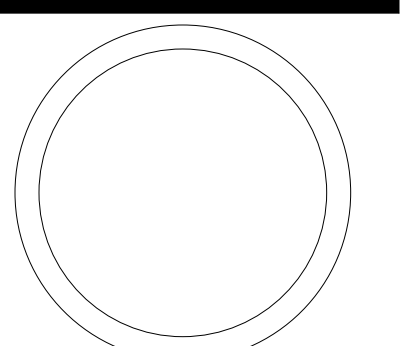
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CLIENT APPROVAL DATE

REVISIONS

NO.	DESCRIPTION

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RECONFIGURE WORKSPACES 403 HCEB
CONTINUING EDUCATION
HARMAN CONTINUING EDUCATION BUILDING (HCEB) — LEVEL 4



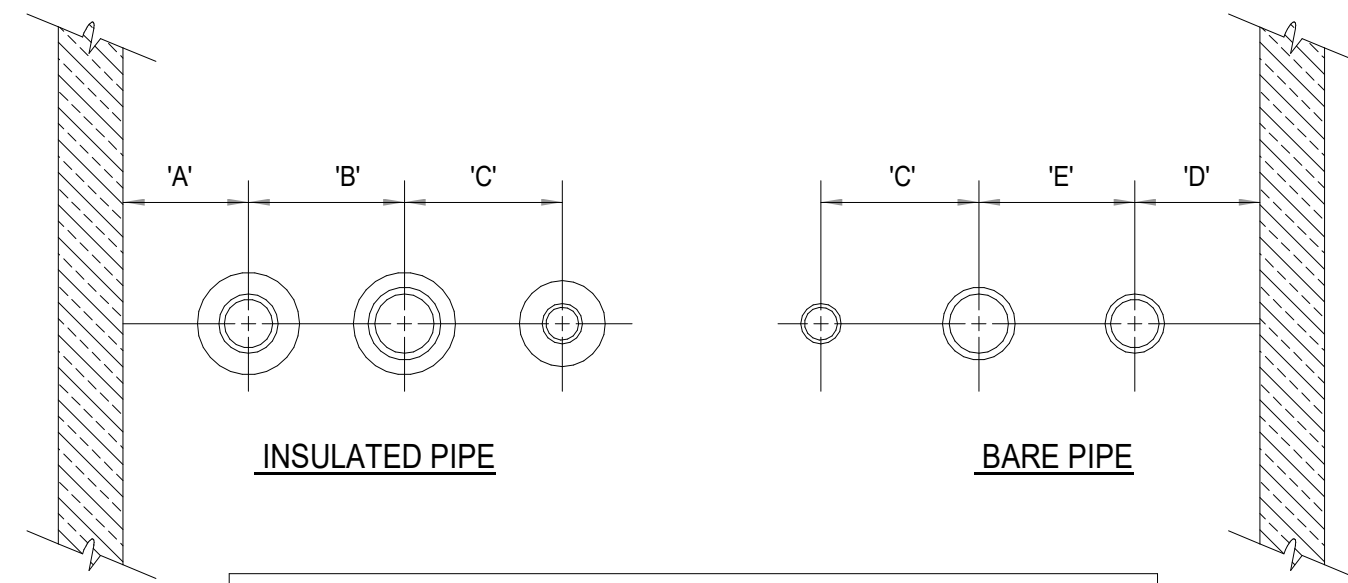
MECHANICAL PLAN

WORK ORDER & SHEET NO.

M1

N3482

CONSTRUCTION DOCS — CONTRACT

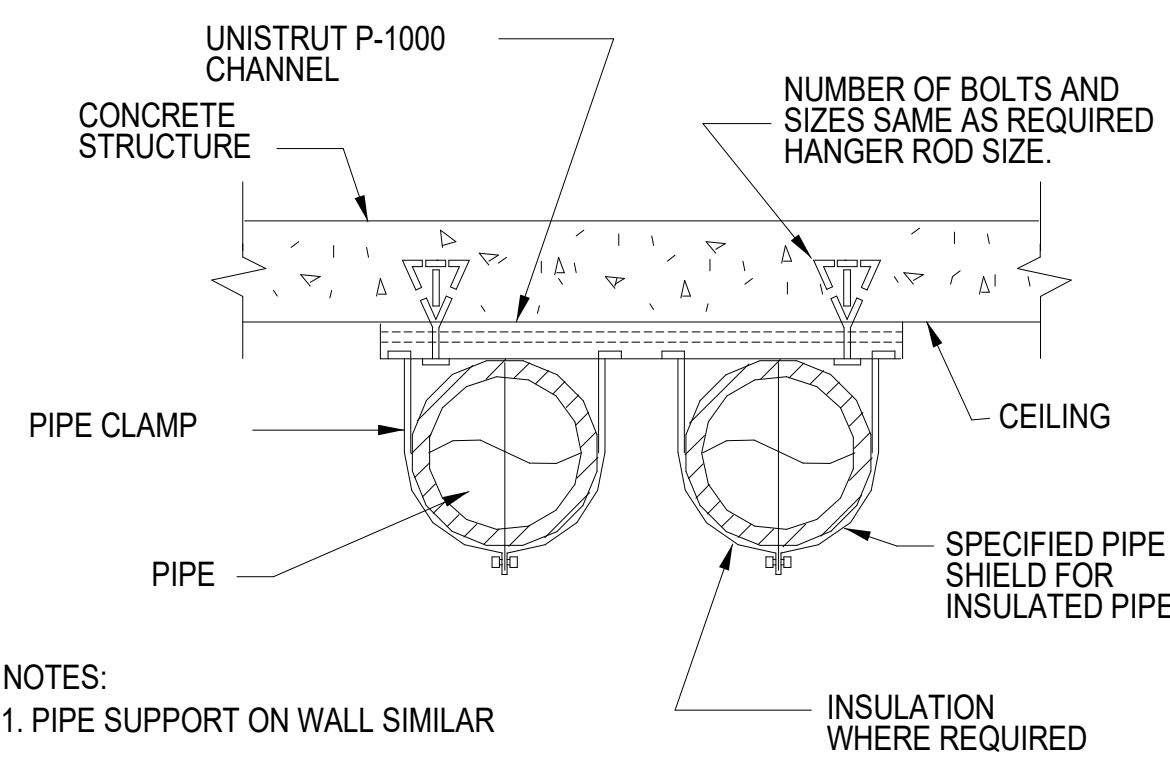


MINIMUM CENTERLINE SPACING				
NOMINAL PIPE SIZE	DIMENSION 'A'	DIMENSION 'B'	DIMENSION 'C'	DIMENSION 'D'
1/2" - 3/4"	5"	6"	3-1/2"	3"
1", 1-1/4", 1-1/2"	6"	8"	4"	4"
2", 2-1/2"	7"	10"	4-1/2"	5"
3", 3-1/2"	7-1/2"	11"	5"	6"
4"	8"	12"	5-1/2"	7"
5"	8-1/2"	13"	6"	8"
6"	9"	14"	6-1/2"	9"
8"	10"	16"	7-1/2"	11"

- NOTES:**
- DIM "C": WHERE PIPES OF DIFFERENT SIZE ARE RUN PARALLEL, USE ONE-HALF OF THE DIMENSION TABULATED FOR THE LARGER PIPE, PLUS ONE-HALF OF THE DIMENSION TABULATED FOR THE SMALLER PIPE, TO DETERMINE THE MINIMUM CENTER LINE SPACING BETWEEN ADJACENT RUNS.
 - TABLE APPLIES ONLY TO PIPING RUNS WHICH ARE NOT DIMENSIONED ON THE PIPING PLANS.

PIPE SPACING DETAIL

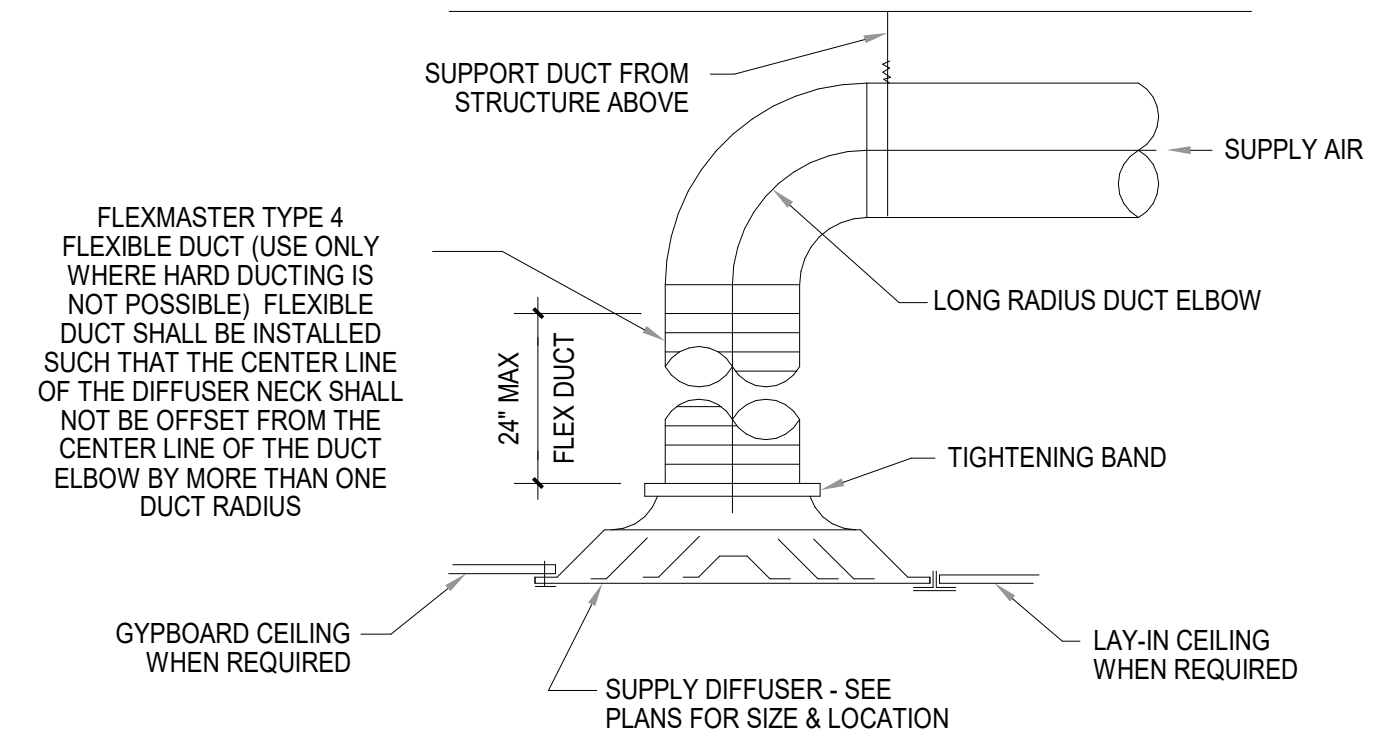
SCALE — NTS



- NOTES:**
- PIPE SUPPORT ON WALL SIMILAR

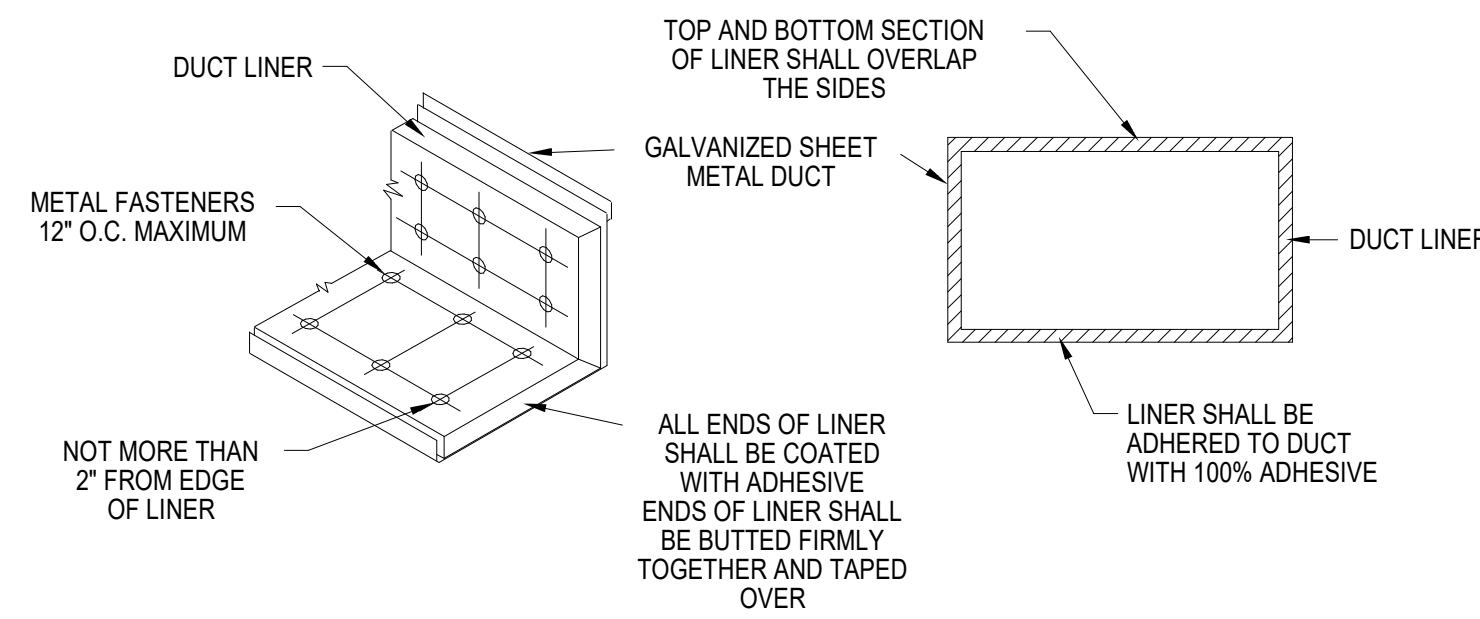
CEILING PIPE SUPPORT DETAIL

SCALE — NTS



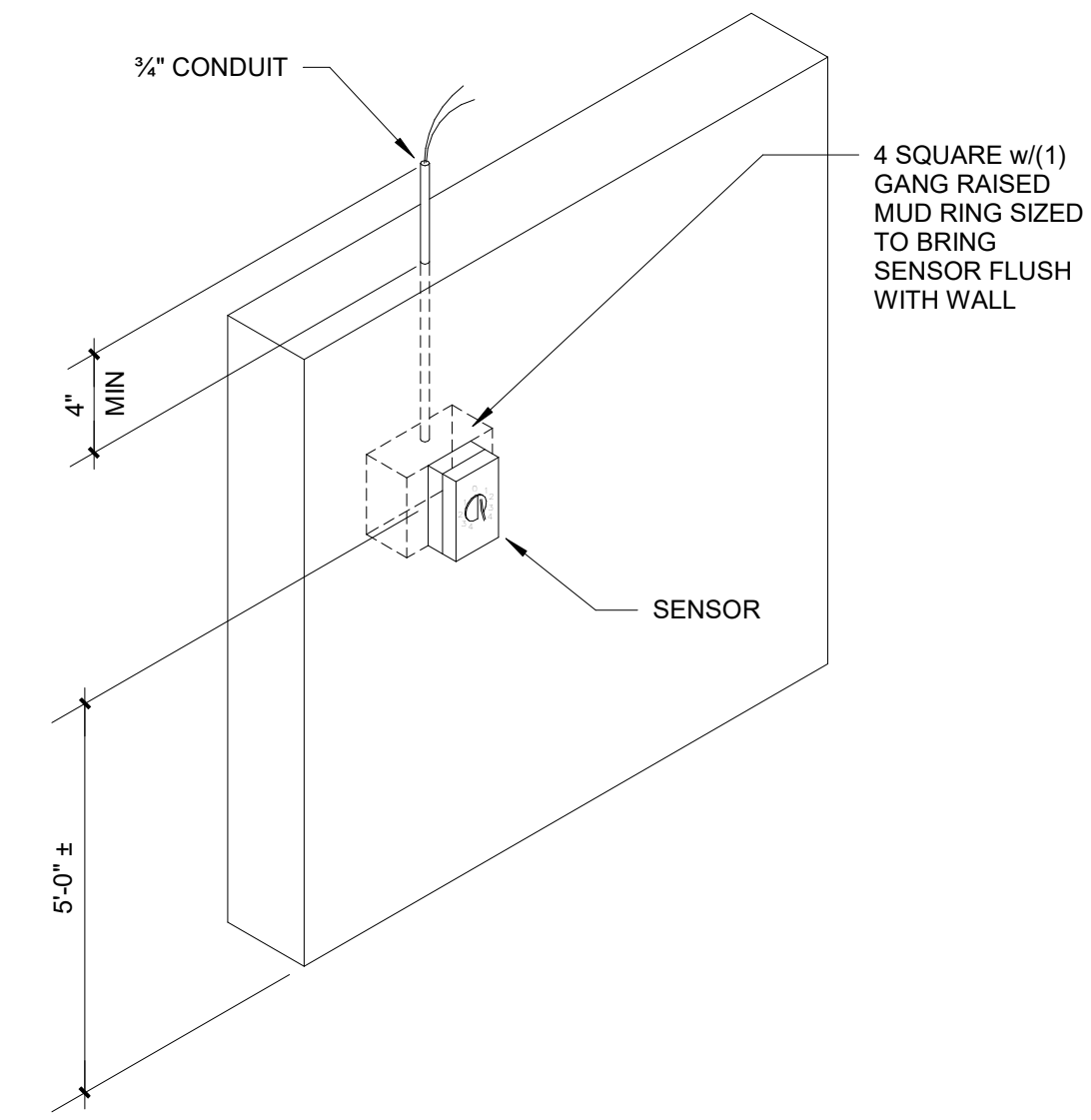
ROUND NECK DIFFUSER CONN. DETAIL

SCALE — NTS



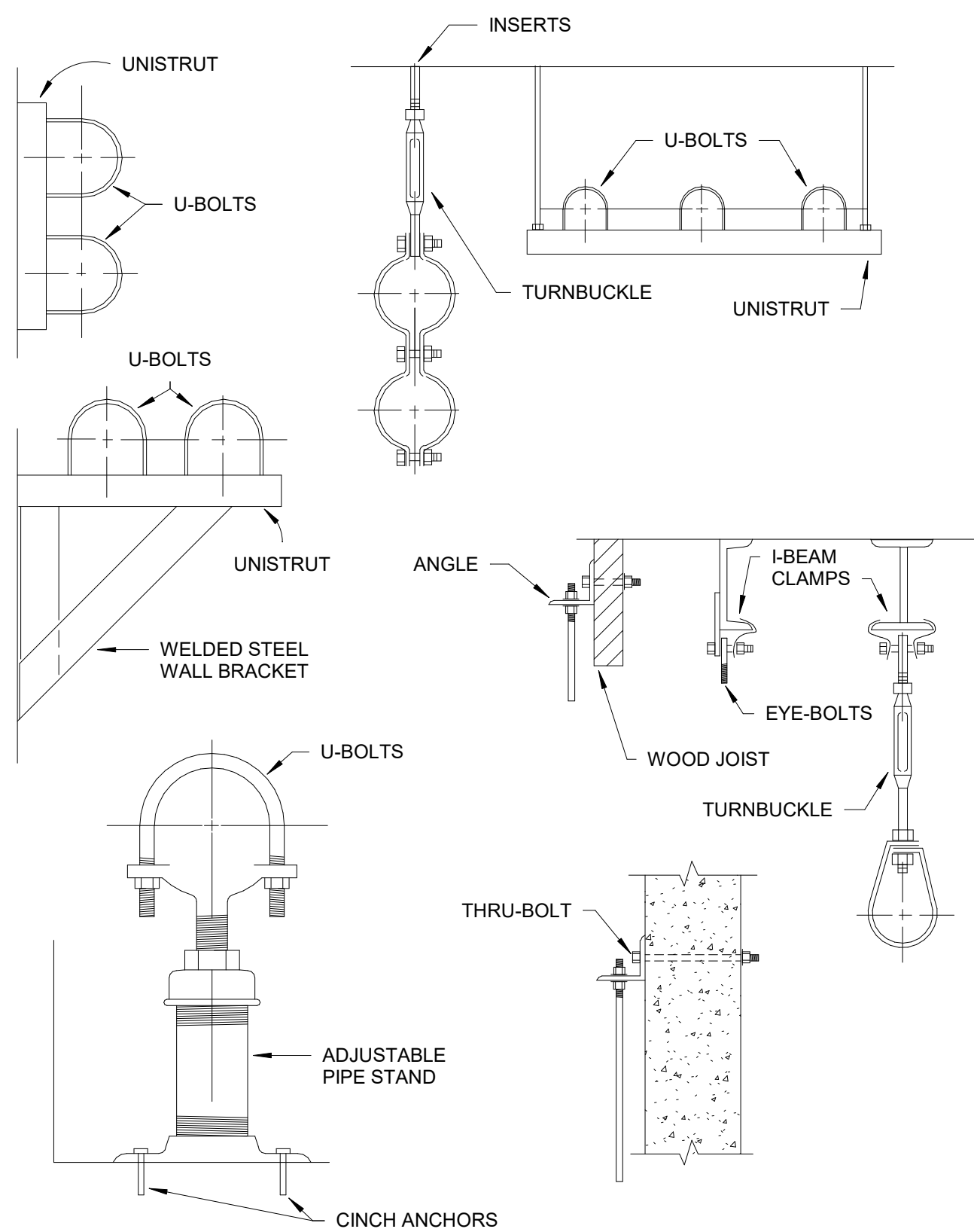
DUCT LINER INSTALLATION DETAIL

SCALE — NTS



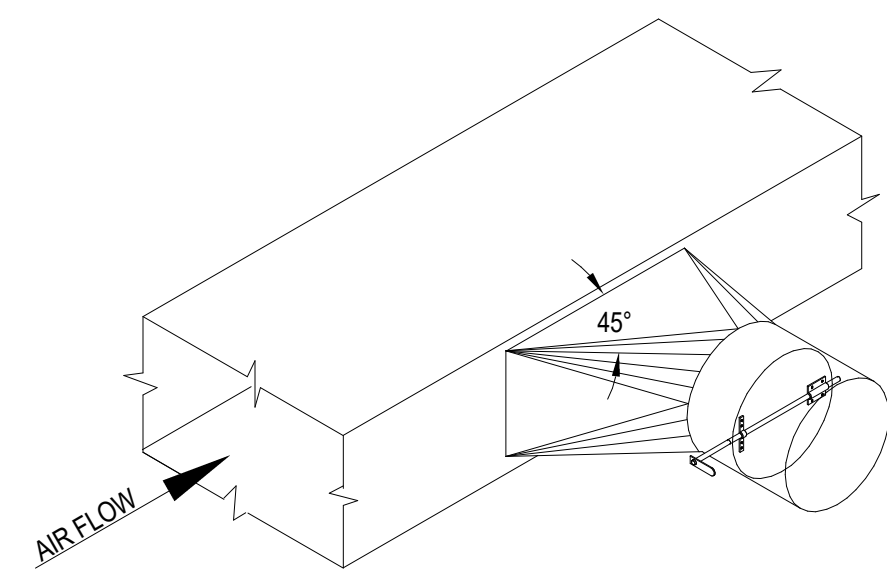
SENSOR/CONDUIT INSTALLATION DETAIL

SCALE — NTS



TYPICAL PIPE SUPPORT DETAILS

SCALE — NTS

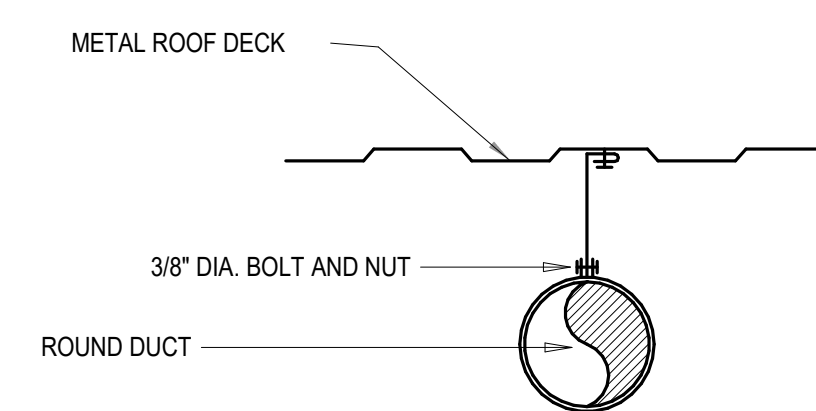


MANUFACTURED HIGH EFFICIENCY TAKE-OFF w/FLANGE AND 2" DAMPER HANDLE EXTENSION. HET SHALL HAVE AN ADJUSTABLE VOLUME DAMPER AND POSITIVE LOCKING HARDWARE. HET FLANGE SHALL BE SUPPLIED WITH AN ADHESIVE COATED DOUBLE FACED GASKET TO ASSURE A TIGHT SEAL. HET SHALL BE BUILT IN ACCORDANCE WITH SMACNA STANDARDS & SHALL BE TESTED BY ETL TESTING LABS. AS MANUFACTURED BY SHEET METAL CONNECTORS INC., OR EQUAL.

HIGH EFFICIENCY TAKE-OFF w/DAMPER DETAIL

SCALE — NTS

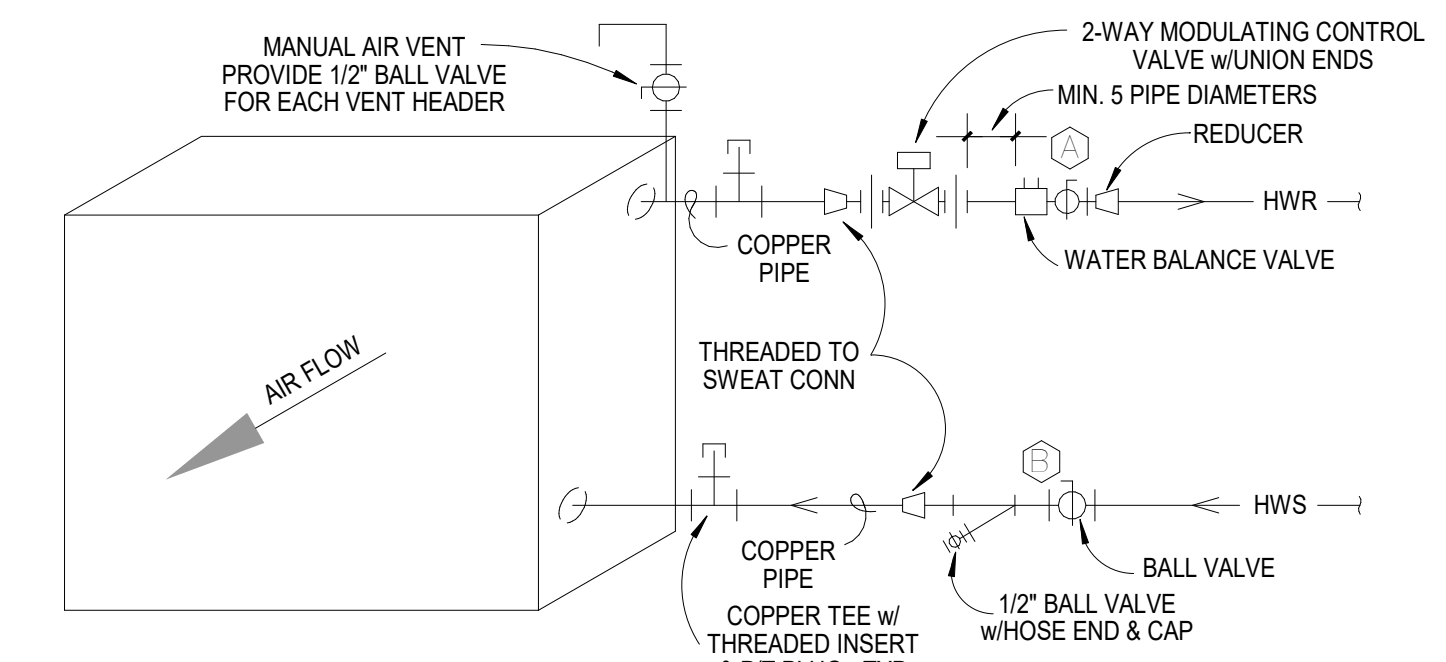
NOTE: TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO DUCT WIDTHS TO ELBOWS OR INTERSECTIONS



- NOTE:**
- USE SPECIFIED SPACING AND NOT LESS THAN ONE SUPPORT PER BRANCH.

ROUND DUCT SUPPORT DETAIL

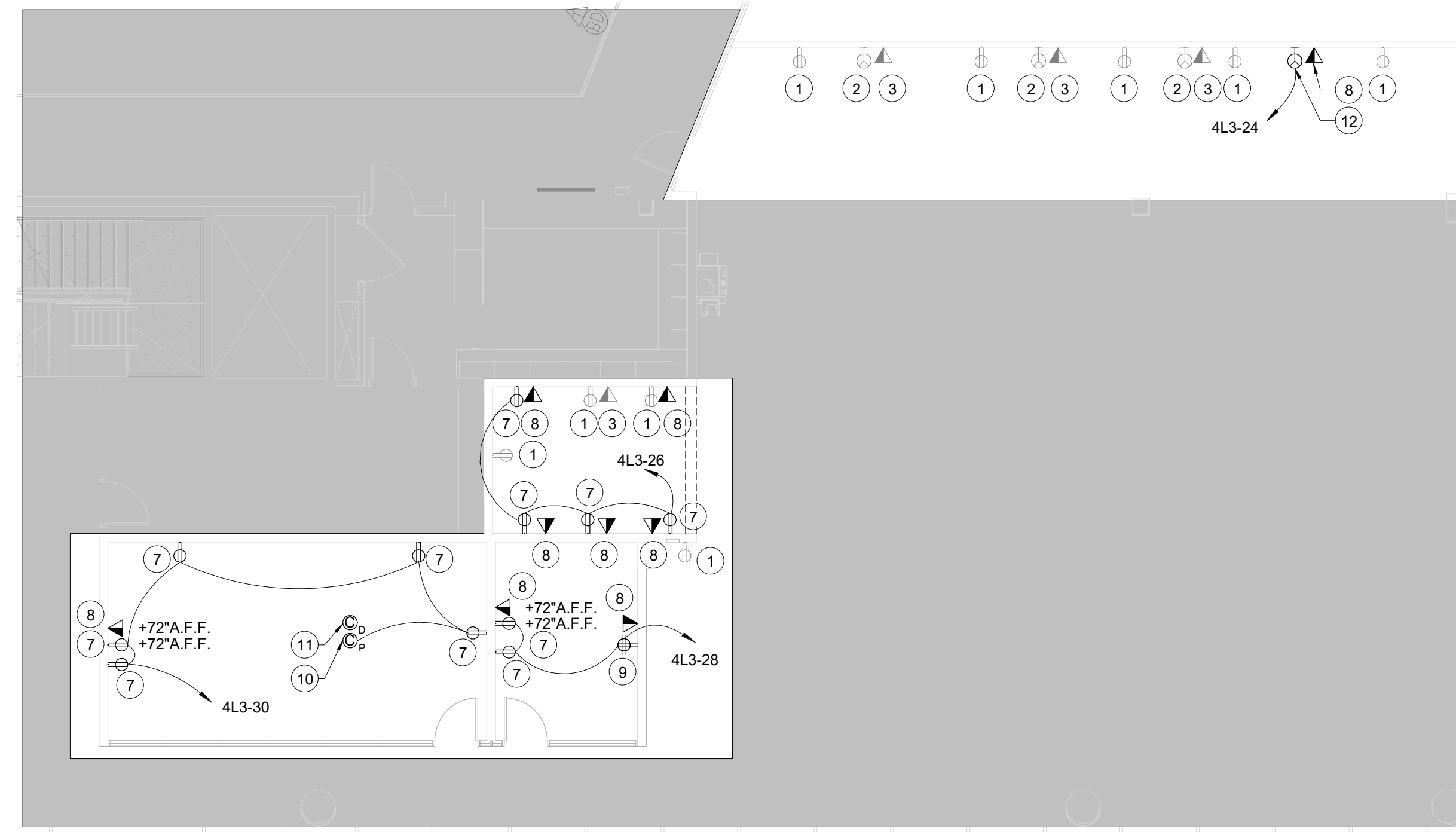
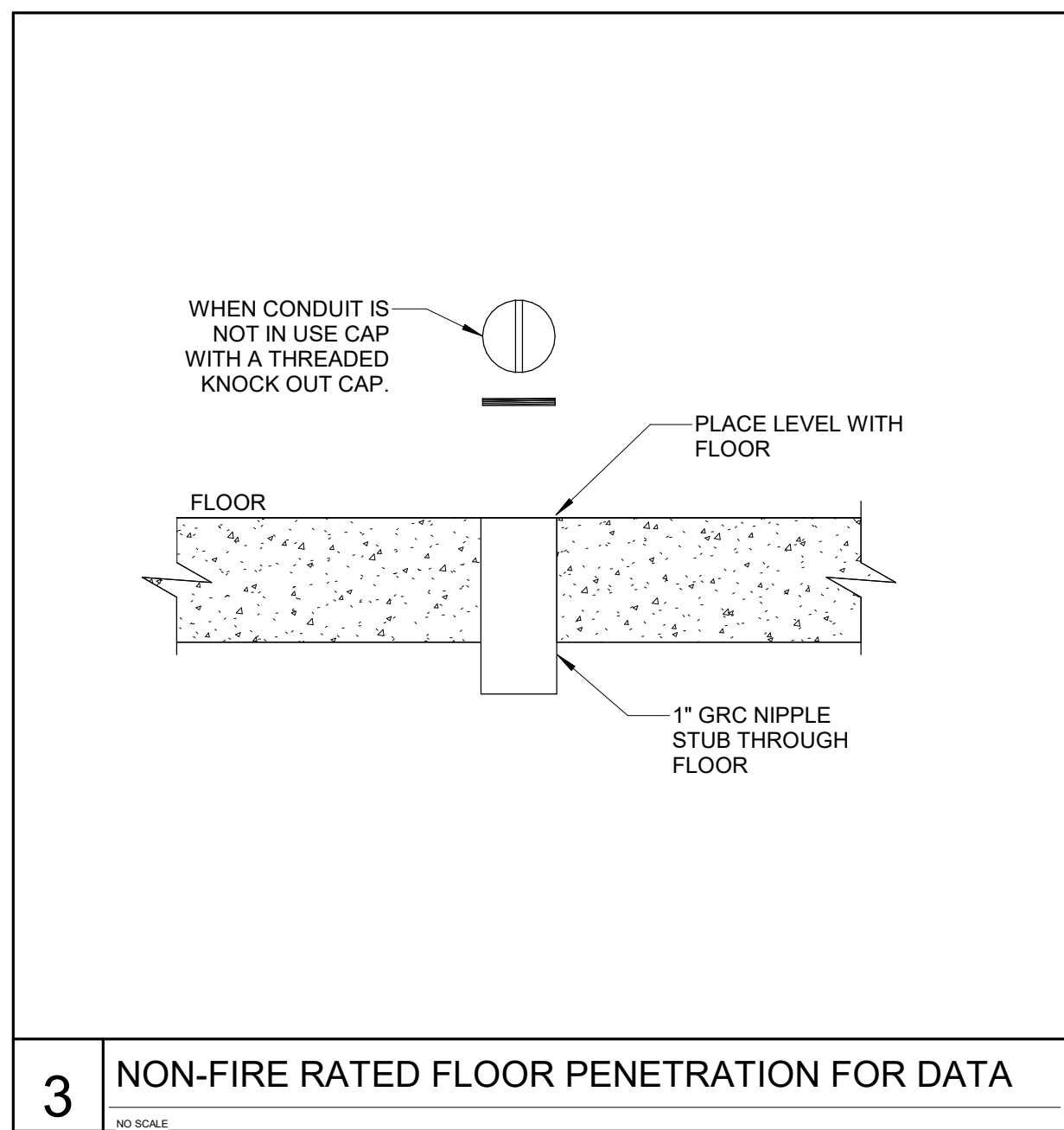
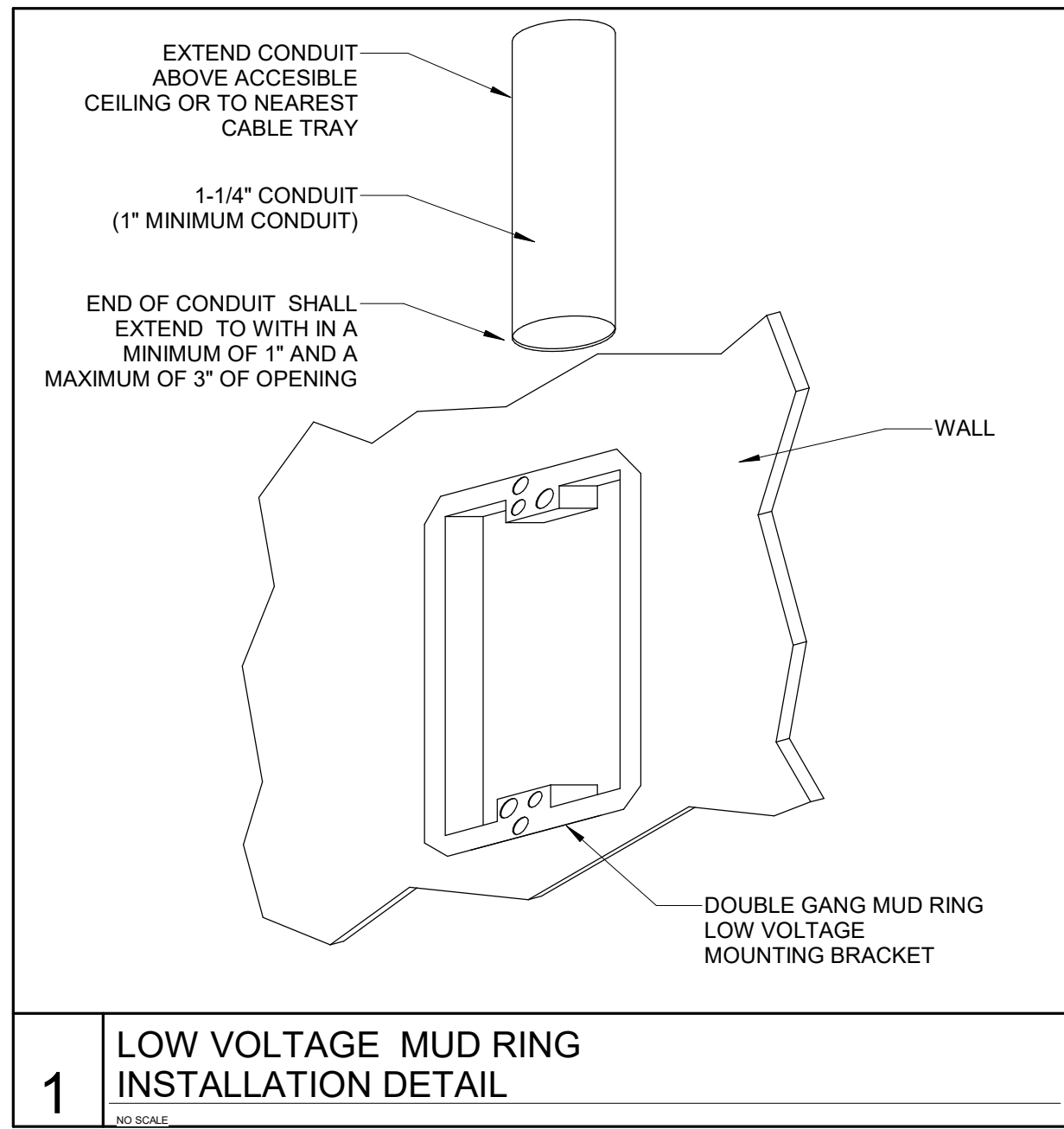
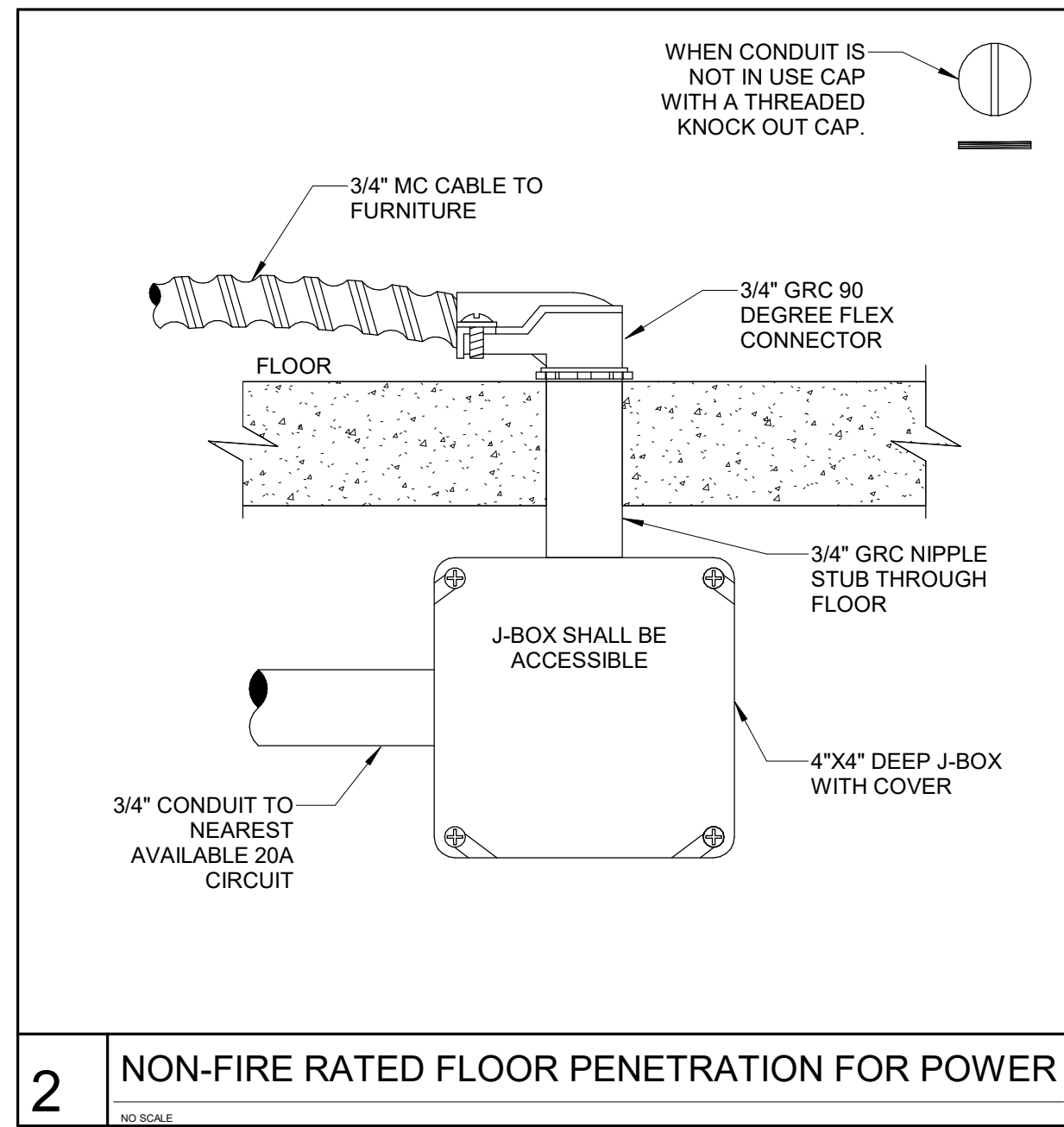
SCALE: NTS



- NOTES:**
- INSTALL VALVES AS CLOSE TO COIL AS POSSIBLE.
 - VALVE (1) SHALL BE INSTALLED WITHIN 2'-0" OF VALVE (2).

2 WAY REHEAT COIL PIPING DIAGRAM

SCALE — NTS



N3482 NEW POWER PLAN 2
SCALE: 1/8" = 1'-0"



N3482 DEMOLITION POWER PLAN 1
SCALE: 1/8" = 1'-0"

REFERENCE NOTES

- 1 EXISTING RECEPTACLE TO REMAIN SHOWN FOR REFERENCE PURPOSES ONLY.
- 2 EXISTING FURNITURE CONNECTION TO REMAIN. SHOWN FOR REFERENCE PURPOSES ONLY.
- 3 EXISTING DATA JACK TO REMAIN. SHOWN FOR REFERENCE PURPOSES ONLY.
- 4 REMOVE EXISTING RECEPTACLE AND ALL ASSOCIATED ABANDONED CIRCUITING BACK TO SOURCE COMPLETE OR NEAREST ELECTRICAL DEVICE TO REMAIN. MAINTAIN CIRCUIT INTEGRITY TO ANY DOWN STREAM ELECTRICAL DEVICES TO REMAIN.
- 5 REMOVE EXISTING FURNITURE CONNECTION AND ALL ASSOCIATED ABANDONED CIRCUITING BACK TO SOURCE COMPLETE OR NEAREST ELECTRICAL DEVICE TO REMAIN. MAINTAIN CIRCUIT INTEGRITY TO ANY DOWN STREAM ELECTRICAL DEVICES TO REMAIN.
- 6 REMOVE EXISTING DATA JACK AND ALL ASSOCIATED CONDUIT AND CABLING BACK TO SOURCE COMPLETE.
- 7 INSTALL NEW RECEPTACLE. EXTEND A 3/4" C. W/ (2)#12, (1)#12 GND., THHN, CU., FROM RECEPTACLE TO CIRCUIT INDICATED ON DRAWING.
- 8 INSTALL NEW DATA LOCATION. SEE DETAIL 1 ON THIS SHEET FOR INSTALLATION DETAIL.
- 9 INSTALL NEW QUAD RECEPTACLE. EXTEND A 3/4" C. W/ (2)#12, (1)#12 GND., THHN, CU., FROM RECEPTACLE TO CIRCUIT INDICATED ON DRAWING.
- 10 INSTALL NEW POWER CONDUIT THROUGH FLOOR FOR FURNITURE CONNECTION. SEE DETAIL 2 ON THIS SHEET FOR INSTALLATION DIAGRAM. VERIFY EXACT LOCATION WITH FURNITURE INSTALLER PRIOR TO CORE DRILL.
- 11 INSTALL NEW DATA CONDUIT THROUGH FLOOR. SEE DETAIL 3 ON THIS SHEET FOR INSTALLATION DIAGRAM. VERIFY EXACT LOCATION WITH FURNITURE INSTALLER PRIOR TO CORE DRILL.
- 12 INSTALL NEW MODULAR FURNITURE CONNECTION. PROVIDE DOUBLE-GANG J-BOX FOR POWER. EXTEND A 3/4" C. WITH (2) #12, (1)#12 GRND., THHN, CU. FROM THE FURNITURE TO CIRCUIT INDICATED ON DRAWING.

GENERAL NOTES

1. IF THERE ARE ANY DESIGN OR BUDGET PROBLEMS WITH THIS PROJECT, CONTACT THE DESIGNER ABOVE AS SOON AS POSSIBLE.
2. FOLLOW THE DESIGN AS PER THESE STANDARD PLANS. ANY CHANGES, ADDITIONS, OR ADJUSTMENTS SHALL BE REVIEWED WITH THE PERSON WHOSE ENGINEERING STAMP IS HERE ATTACHED.
3. ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS SHALL BE FIRE CAULKED AS REQUIRED BY CODE.



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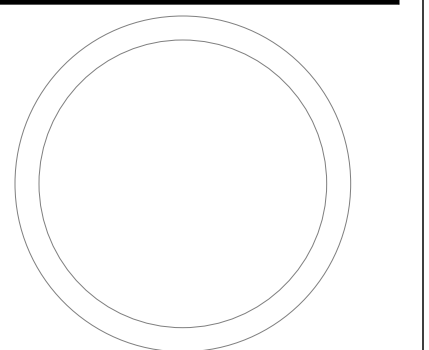
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DESIGNER: LRM
DRAWN BY: LRM

ADA CHECK:
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STRUCTURAL:
UTILITIES DIR:
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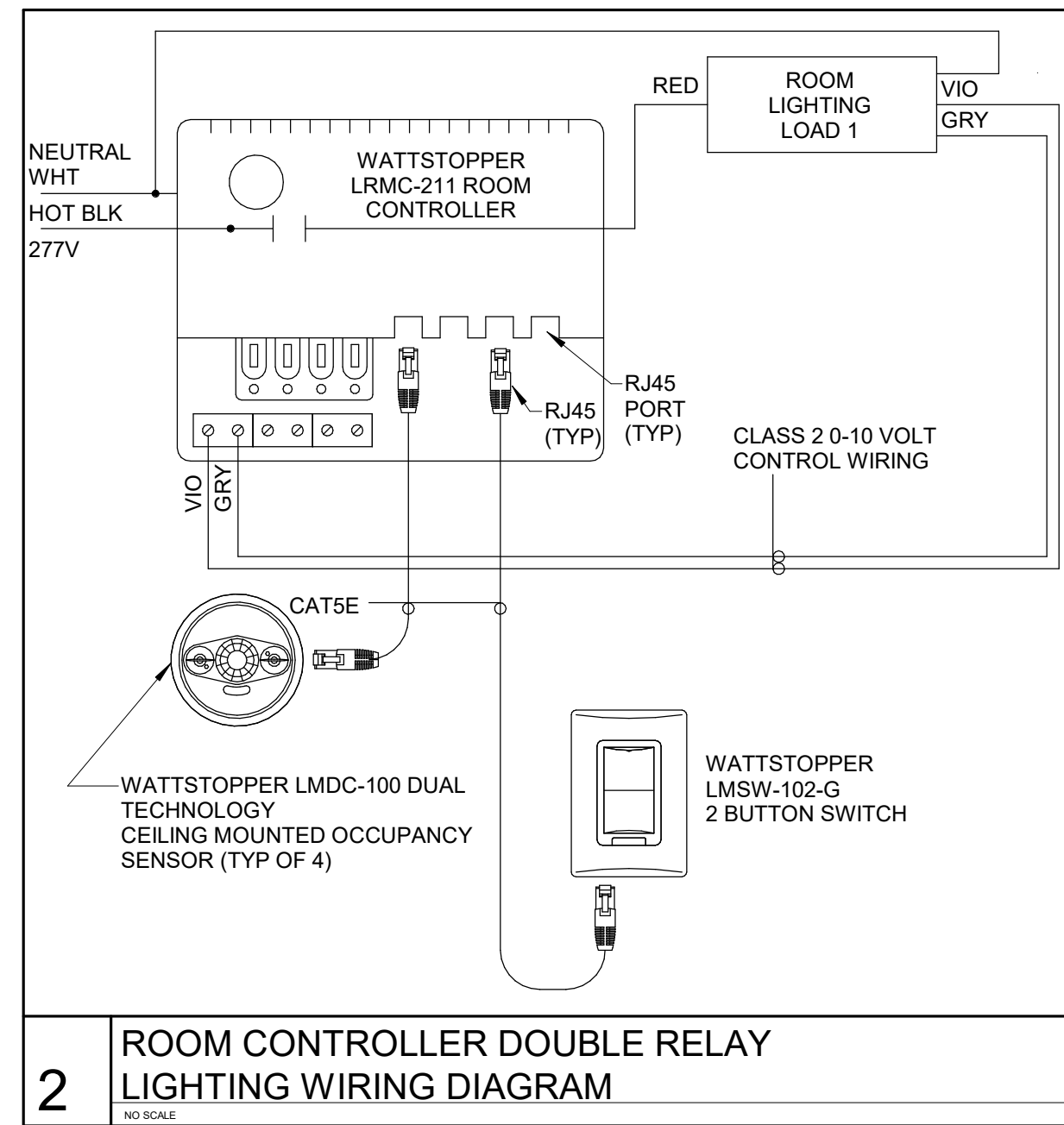


**DEMOLITION AND
NEW POWER PLANS**

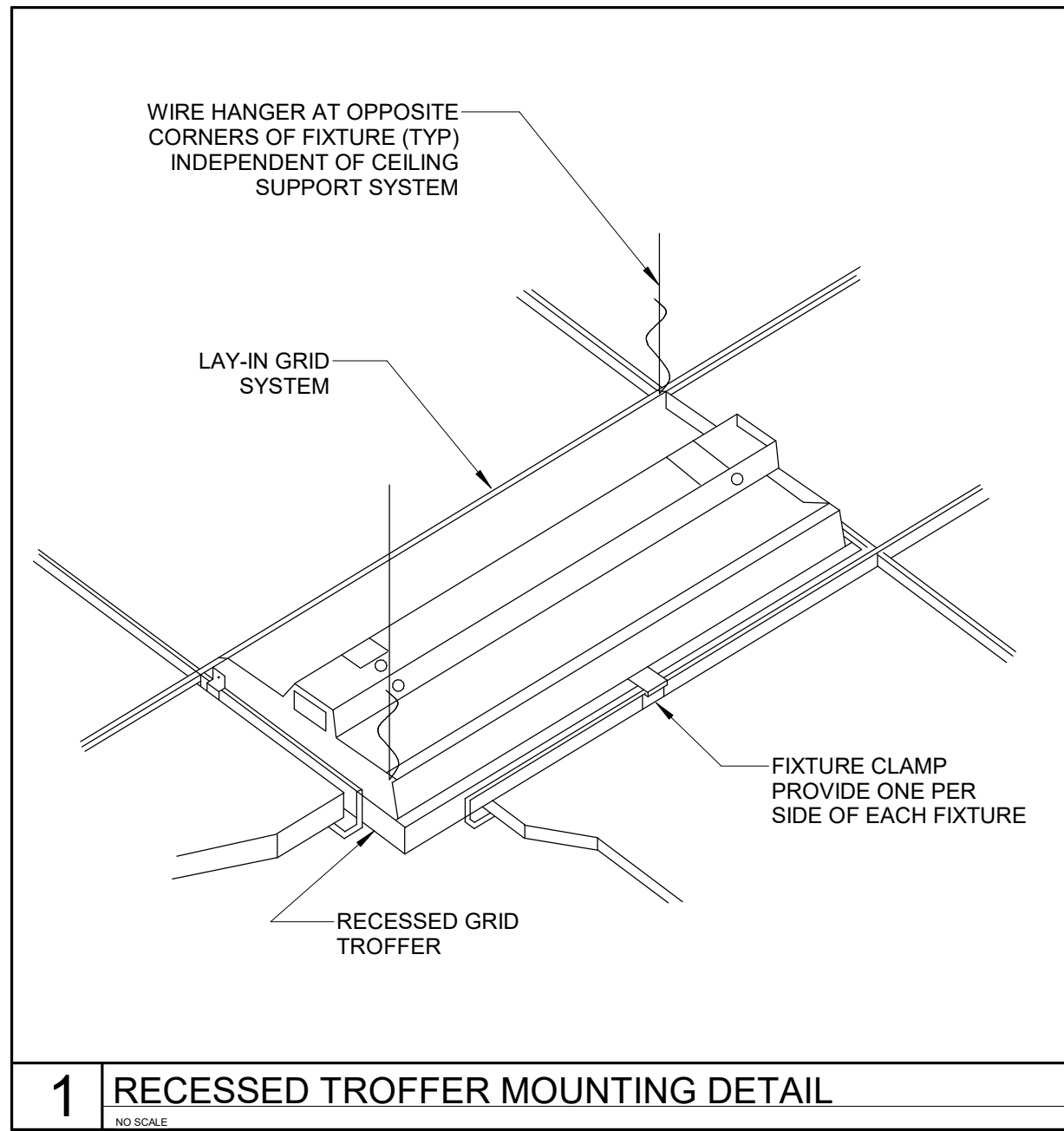
WORK ORDER & SHEET NO.

**N3482
E1.1**

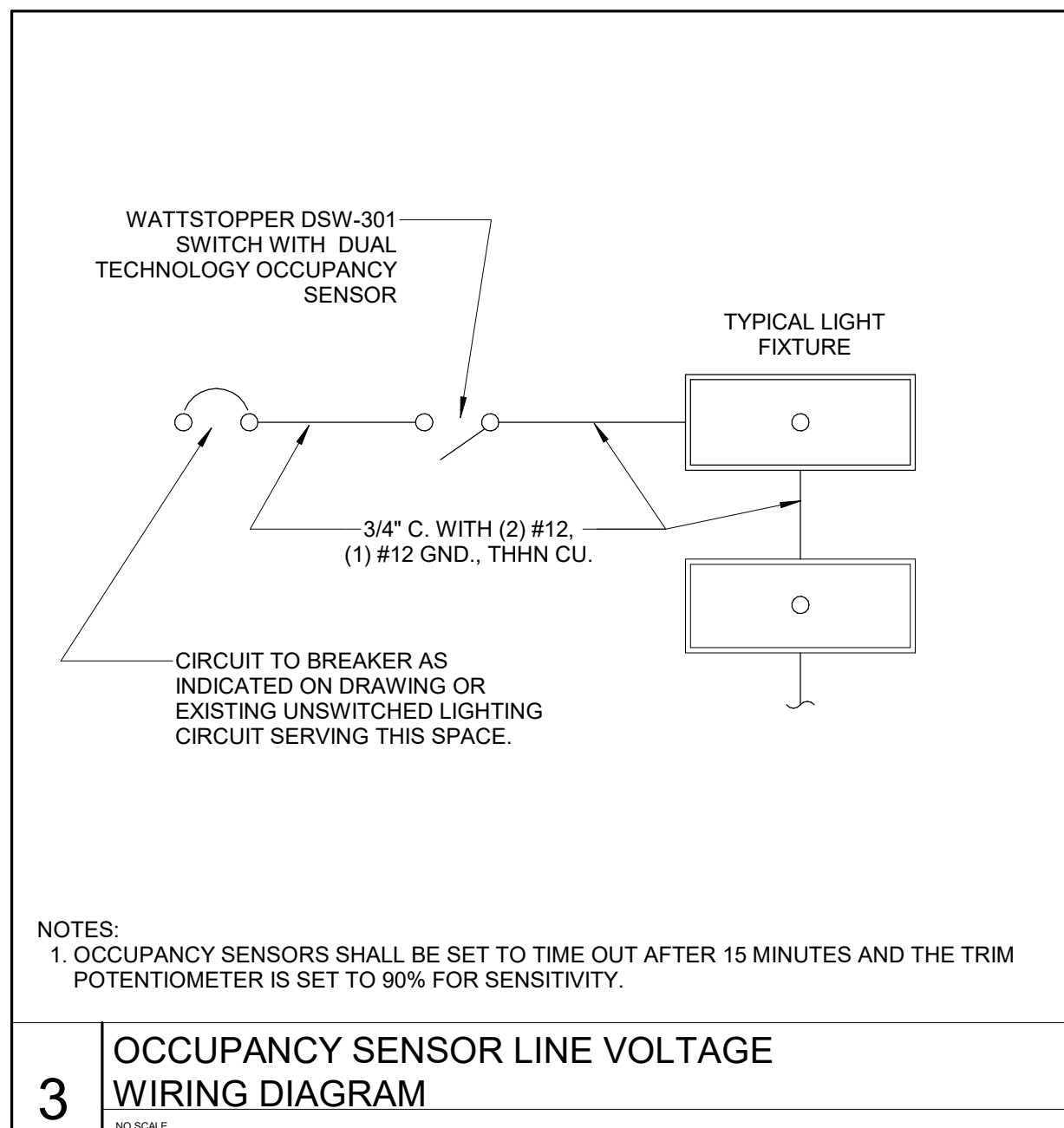
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2 ROOM CONTROLLER DOUBLE RELAY LIGHTING WIRING DIAGRAM
NO SCALE

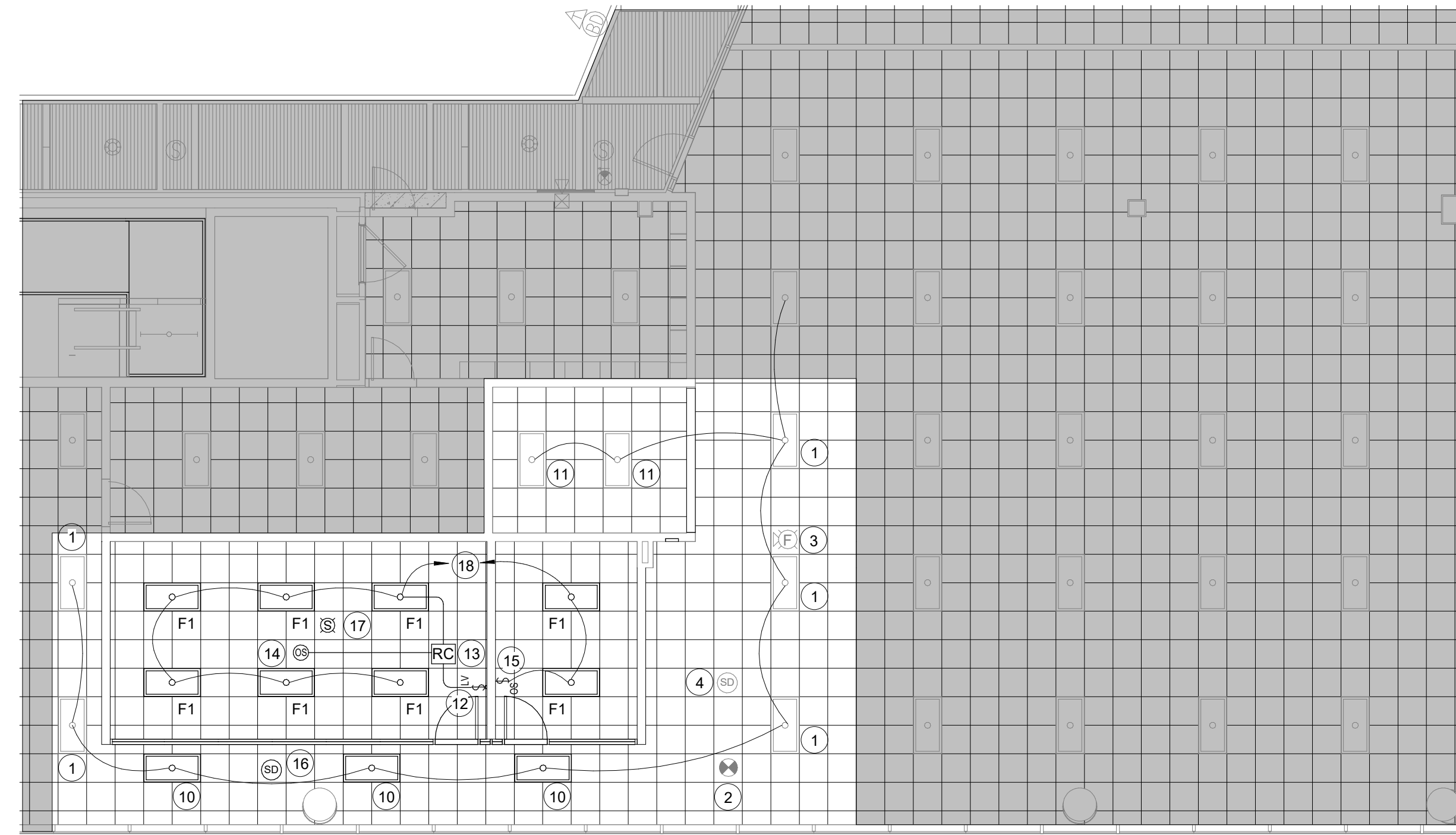


1 RECESSED TROFFER MOUNTING DETAIL
NO SCALE

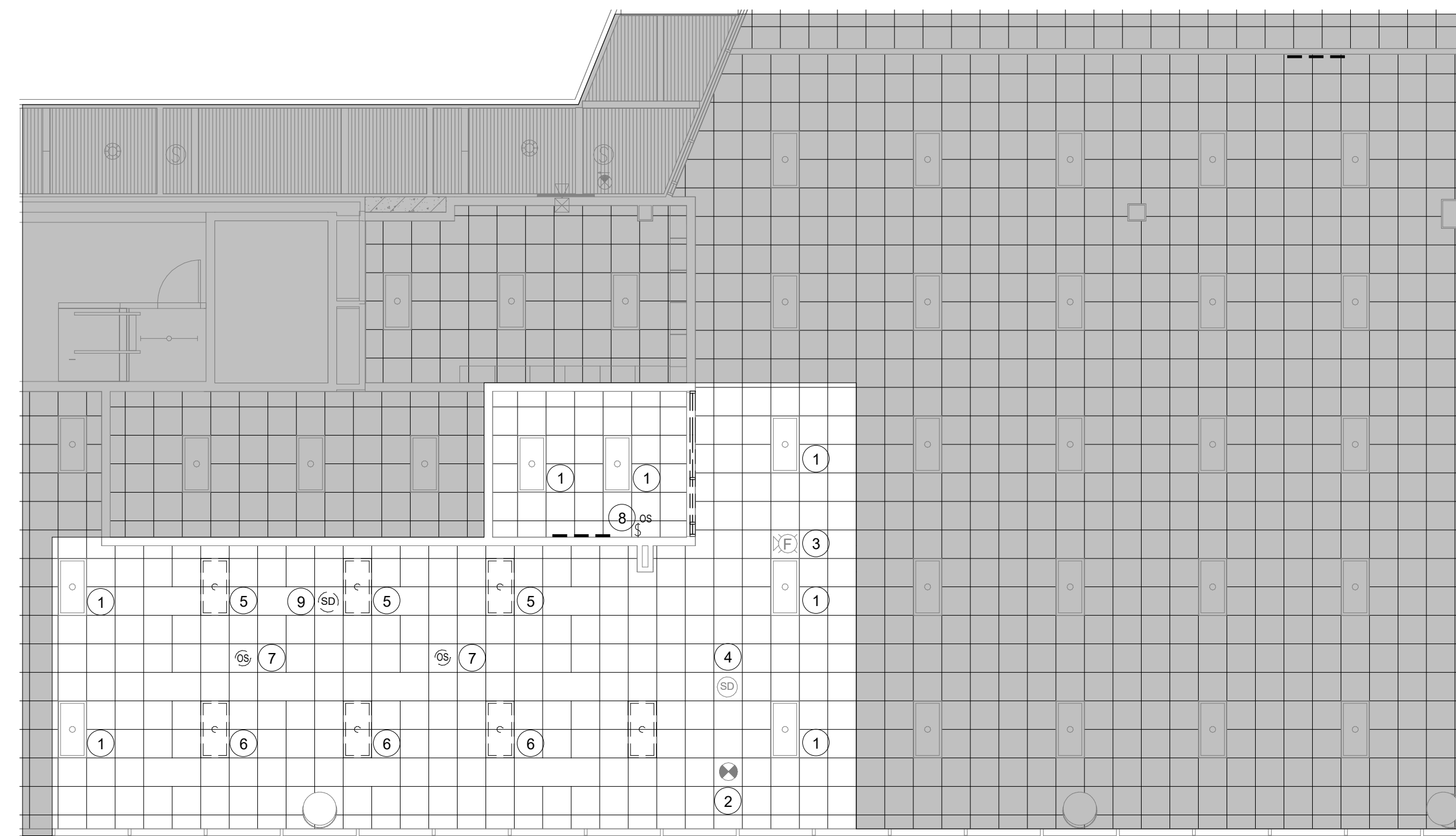


NOTES:
1. OCCUPANCY SENSORS SHALL BE SET TO TIME OUT AFTER 15 MINUTES AND THE TRIM POTENTIOMETER IS SET TO 90% FOR SENSITIVITY.

3 OCCUPANCY SENSOR LINE VOLTAGE WIRING DIAGRAM
NO SCALE



N3482 NEW LIGHTING PLAN
SCALE: 1/8" = 1'-0" **2**



M3482 DEMOLITION LIGHTING PLAN
SCALE: 1/8" = 1'-0" **1**

REFERENCE NOTES

- EXISTING LIGHT FIXTURE TO REMAIN. SHOWN FOR REFERENCE PURPOSES ONLY.
- EXISTING CEILING MOUNTED EXIT SIGN TO REMAIN. SHOWN FOR REFERENCE PURPOSES ONLY.
- EXISTING CEILING MOUNTED FIRE ALARM HORN STROBE TO REMAIN. SHOWN FOR REFERENCE PURPOSES ONLY.
- EXISTING CEILING MOUNTED SMOKE DETECTOR TO REMAIN. SHOWN FOR REFERENCE PURPOSES ONLY.
- CAREFULLY REMOVE EXISTING LIGHT FIXTURE AND PREPARE FOR RELOCATION. PREPARE UNSWITCHED LIGHTING CIRCUIT FOR CONNECTION TO NEW LIGHTS.
- REMOVE EXISTING LIGHT FIXTURE. PREPARE UNSWITCHED LIGHTING CIRCUIT FOR CONNECTION TO NEW LIGHTS.
- REMOVE EXISTING OCCUPANCY SENSOR AND ALL ASSOCIATED CIRCUITING BACK TO SOURCE COMPLETE. OR NEAREST LIGHTING DEVICE TO REMAIN.
- REMOVE EXISTING WALL MOUNTED LIGHT SWITCH AND ALL ASSOCIATED CIRCUITING BACK TO SOURCE COMPLETE. OR NEAREST LIGHTING DEVICE TO REMAIN.
- CAREFULLY REMOVE EXISTING SMOKE DETECTOR AND PREPARE FOR RELOCATION.
- INSTALL REMOVE LIGHT FIXTURES IN LOCATION SHOWN. CONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS SERVING THIS SPACE.
- CONNECT EXISTING LIGHT FIXTURES TO EXISTING CONTROLS SERVING THE OPEN OFFICE SPACE.
- INSTALL NEW LOW VOLTAGE LIGHT SWITCH. SEE DETAIL 2 ON THIS SHEET FOR WIRING DIAGRAM.
- INSTALL NEW ABOVE CEILING ROOM CONTROLLER. SEE DETAIL 2 ON THIS SHEET FOR WIRING DIAGRAM.
- INSTALL NEW CEILING MOUNTED OCCUPANCY SENSOR. SEE DETAIL 2 ON THIS SHEET FOR WIRING DIAGRAM.
- INSTALL NEW OCCUPANCY SENSOR WALL SWITCH. SEE DETAIL 3 ON THIS SHEET FOR WIRING DIAGRAM.
- INSTALL REMOVED SMOKE DETECTOR IN LOCATION SHOWN. EXTEND CIRCUITING FROM SMOKE DETECTOR TO NEAREST AVAILABLE FIRE ALARM LOOP. PROVIDE ALL CIRCUITING REQUIRED FOR A COMPLETE INSTALLATION.
- INSTALL NEW CEILING MOUNTED FIRE ALARM STROBE. EXTEND CIRCUITING FROM FIRE ALARM LOOP. PROVIDE ALL CIRCUITING REQUIRED FOR A COMPLETE INSTALLATION.
- CONNECT TO EXISTING UNSWITCHED LIGHTING CIRCUIT SERVING THIS SPACE. EXTEND A 3/4" C W (2) #12, (1) #12, GND, THHN, CU, FROM THE LIGHT FIXTURE TO THE EXISTING UNSWITCHED LIGHTING CIRCUIT. AS REQUIRED FOR A COMPLETE INSTALLATION.

GENERAL NOTES

- IF THERE ARE ANY DESIGN OR BUDGET PROBLEMS WITH THIS PROJECT, CONTACT THE DESIGNER ABOVE AS SOON AS POSSIBLE.
- FOLLOW THE DESIGN AS PER THESE STANDARD PLANS. ANY CHANGES, ADDITIONS, OR ADJUSTMENTS SHALL BE REVIEWED WITH THE PERSON WHOSE ENGINEERING STAMP IS HERE ATTACHED.
- ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS SHALL BE FIRE CAULKED AS REQUIRED BY CODE.



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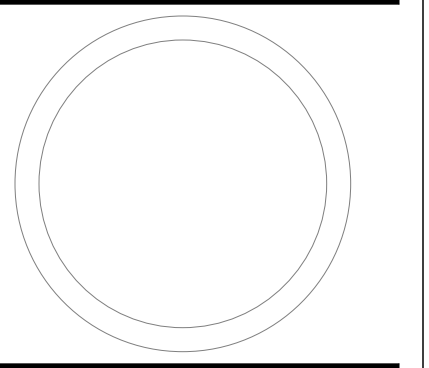
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DEMOLITION AND NEW LIGHTING PLANS

WORK ORDER & SHEET NO.

**N3482
E2.1**

SCALE: 1/8" = 1'-0"

1



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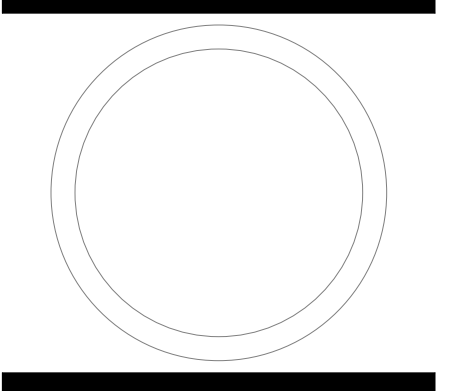
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ELECTRICAL
DETAILS, NOTES,
SCHEDULES AND
LEGENDS

WORK ORDER & SHEET NO.

N3482
E5.0

LIGHTING (SEE FIXTURE SCH.)

Legend for lighting fixtures including LED Grid Troffer, LED Linear Pendant, LED Recessed Down Light, and LED Fixture connected to emergency lighting circuit.

FIRE ALARM

Legend for fire alarm components including ceiling mounted smoke detectors, fire alarm horns, and fire alarm strobe lights.

DEVICES AND PATHWAYS

Legend for electrical devices and pathways including wiring systems, junction boxes, receptacles, and furniture connections.

PANELS, DISCONNECTS

Legend for electrical panels and disconnects, including panelboards and their mounting details.

TELECOMMUNICATIONS

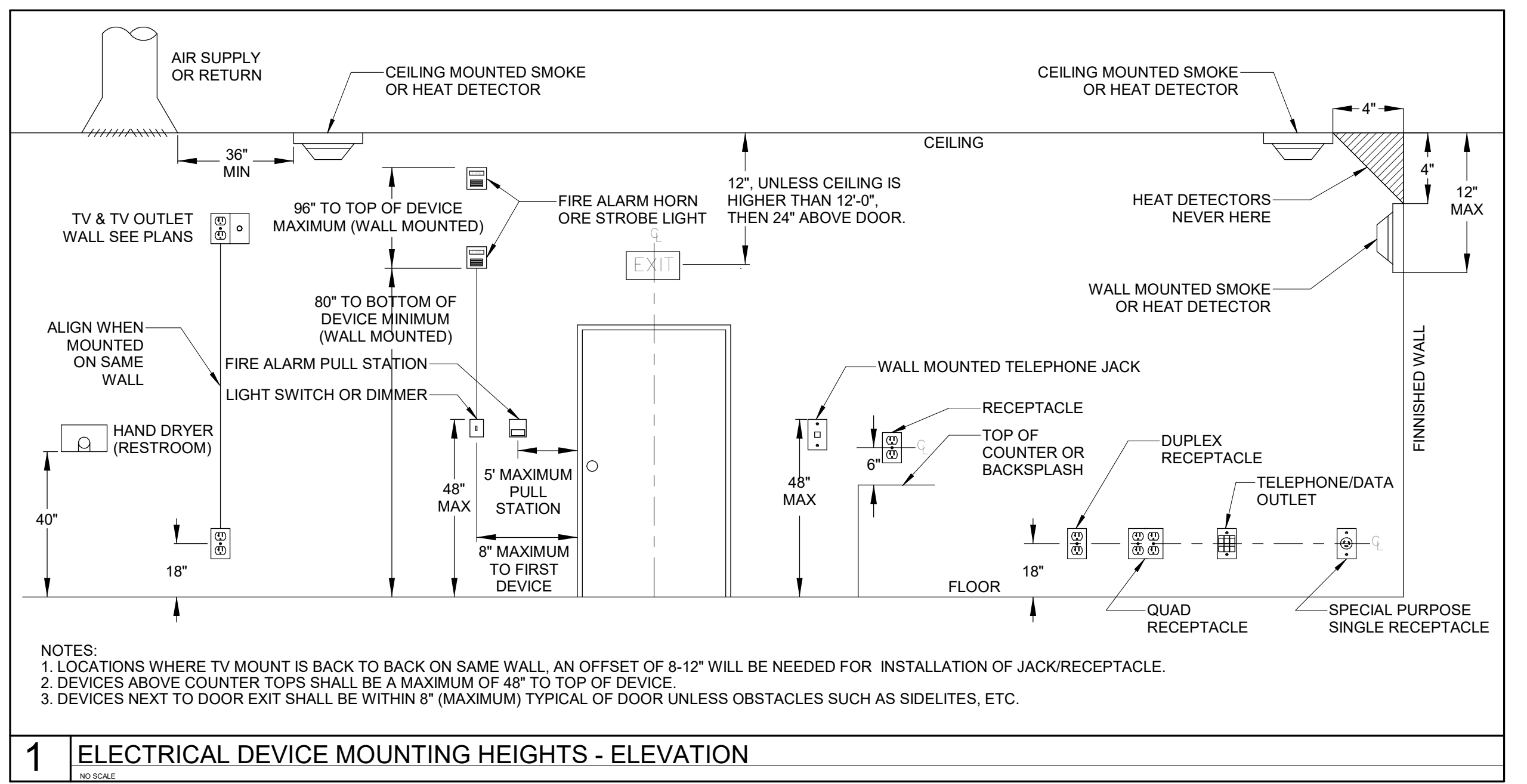
Legend for telecommunication components, including tele/data outlets and their installation requirements.

GENERAL NOTES

- 1. IF THERE ARE ANY DESIGN OR BUDGET ISSUES WITH THIS PROJECT, CONTACT THE DESIGNER INDICATED ON THIS SHEET AS SOON AS POSSIBLE.
2. FOLLOW THE DESIGN AS PER THESE STANDARD PLANS. ANY CHANGES, ADDITIONS, OR ADJUSTMENTS SHALL BE REVIEWED WITH THE PERSON WHOSE ENGINEERING STAMP IS HERE ATTACHED.
3. SEE OIT DRAWINGS FOR PATHWAYS AND J-BOXES REQUIRED FOR TELE/DATA AND AUDIO/VISUAL NEEDS.
4. ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS SHALL BE FIRE CAULKED AS REQUIRED BY CODE.
5. ALL SHADED AREAS ARE OUTSIDE SCOPE OF WORK.

ABBREVIATIONS

Table of abbreviations for electrical symbols such as 42" for dimension above finished floor, 3R for NEMA 3R rating, and AFH for fire alarm horn.



1 ELECTRICAL DEVICE MOUNTING HEIGHTS - ELEVATION

PANEL SCHEDULE #4L3. Includes voltage (208Y/120V), bus rating (250A), and a detailed table of circuits with breaker, name, feeder, load, and equipment ratings.

LIGHTING FIXTURE SCHEDULE table with columns for fixture number, manufacturer, fixture catalog number, lamps, fixture (volts, watts, mounting), fixture description, and remarks.

U.L. SYSTEM NO. WL3065
F RATING = 1-HR. OR 2-HR.
T RATING = 0-HRS.
L RATING AT AMBIENT = 5 CFM/SQ FT
L RATING AT 400°F = 2 CFM/SQ FT

1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN)
2. CABLE BUNDLES TO CONSIST OF ANY OF THE FOLLOWING:
A. 7/8" NO. 12 AWG CABLES
B. 12 PAIR 24 AWG TELEPHONE CABLES
C. 25 PAIR 24 AWG TELEPHONE CABLES
D. RG 59 COAXIAL CABLES
E. 2/0 1-GND. NO. 14 AWG METAL-CLAD CABLES
F. 2/0 NO. 8 AWG METAL-CLAD CABLES
G. MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLES
3. OPTIONAL MAX. 4" NOM. DIA. STEEL PIPE SLEEVE (SCH. 40 OR THINNER)(SEE NOTE NO. 1)
4. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT
A. MINIMUM 5/8" DEPTH OF SEALANT FOR 1-HR. FIRE-RATING
B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR 2-HR. FIRE-RATING
5. SEE NOTE NO. 4 BELOW.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 4-1/2"
2. CABLES TO FILL MAXIMUM 33% OF AREA OF OPENING.
3. ANNUAL SPACE = MINIMUM 1/4" MAXIMUM 3/4"
4. STEEL SLEEVES MAY BE FLUSH WITH WALL SURFACE OR EXTEND UP TO 16" BEYOND WALL SURFACE IN ANY COMBINATION. WHEN SLEEVE IS FLUSH WITH WALL, APPLY HILTI FS-ONE FIRESTOP SEALANT ONTO WALL SURFACE. WHEN SLEEVE IS EXTENDED BEYOND ONE OR BOTH SIDES OF THE WALL, APPLY 1/2" CROWN HILTI FS-ONE FIRE STOP SEALANT TO WALL/SLEEVE INTERFACE.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

3 CABLE BUNDLE THROUGH 1-HR. OR 2-HR. FIRE-RATED GYPSUM WALL
NO SCALE

U.L. SYSTEM NO. WJ8013
F RATING = 1-HR. OR 2-HR.
T RATING = 0-HR.
L RATING AT AMBIENT = 5 CFM/SQ. FT.
L RATING AT 400°F = 2 CFM/SQ. FT.

1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN)
2. STEEL OR ALUMINUM CABLE TRAY (MAXIMUM SIZE 18" X 6")
3. ANY OF THE FOLLOWING TYPES OF CABLES MAY BE USED WITH MAX. 30% FILL ON CABLE TRAY:
A. 500 KCMIL SINGLE CONDUCTOR POWER CABLE
B. 7/8" NO. 12 AWG COPPER CONDUCTOR CABLE
C. 300 PAIR NO. 24 AWG TELEPHONE CABLE
4. MAXIMUM 3" DIAMETER PVC PLASTIC PIPE (SCH. 40)(CLOSED VENTED PIPING SYSTEM)
5. CABLE BUNDLE (MAX. 2" DIA.) TO CONSIST OF ANY OF THE FOLLOWING:
A. FIBER-OPTIC CABLES
B. RG 59 COAXIAL CABLES
C. 25 PAIR NO. 24 AWG TELEPHONE CABLES
D. 7/8" NO. 12 AWG COPPER CONDUIT
6. HILTI FS-657 FIRESTOP BLOCK (2" X 5" X 6" DEEP, REF. FRONT VIEW).

NOTES:
1. NOT SHOWN; PENETRATING ITEMS MAY ALSO INCLUDE A MAX. 4" DIA. STEEL OR COPPER PIPE, EMT, OR STEEL CONDUIT WITH A MAX. 1-1/2" GLASS-FIBER PIPE INSULATION ON NON-INSULATED MAX. 4" STEEL PIPE, EMT, OR CONDUIT.
2. ANNUAL SPACE = 1"
3. INSTALL HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST AROUND PENETRATING ITEMS, OR BETWEEN BLOCKS.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

2 MULTIPLE PENETRATIONS THROUGH 1-HR. OR 2-HR. GYPSUM WALL
NO SCALE

U.L. SYSTEM NO. WJ8007
F RATING = 4-HR.
T RATING = 0-HR.

1. CONCRETE FLOOR OR WALL ASSEMBLY (MINIMUM 3-1/2" THICK)
2. MAXIMUM 1/2" DIAMETER STEEL PIPE OR MAXIMUM 6" DIAMETER COPPER PIPE.
3. MAXIMUM 1-1/2" THICK GLASS-FIBER PIPE INSULATION
4. 1-1/2" DIAMETER STEEL CONDUIT (MAXIMUM QUANTITY = 15)
5. STEEL OR ALUMINUM CABLE TRAY (MAXIMUM SIZE 36" X 6") WITH ANY OF THE FOLLOWING:
A. MAXIMUM 500 KCMIL SINGLE CONDUCTOR POWER CABLE
B. MAXIMUM 7/8" NO. 12 AWG COPPER CONDUCTOR CABLE
C. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLES
6. MAXIMUM 3/8" DIAMETER STEEL PIPE (1/2" DIAMETER PIPE SHOWN)
7. MAXIMUM 6" DIAMETER STEEL PIPE
8. MAXIMUM 4" DIAMETER CABLE BUNDLE TO INCLUDE ANY OF THE FOLLOWING:
A. FIBER-OPTIC CABLE (MAX. 1/2" DIA.) D. 7/8" NO. 12 AWG CABLES
B. ROMEX (2/0 NO. 10 + GND) E. RG 59 COAXIAL CABLES
C. 25 PAIR NO. 24 AWG TELEPHONE CABLES F. METAL CLAD CABLE (MAX. 3/4" DIA.)
9. HILTI FS-657 INTUMESCENT FIRESTOP BLOCK (2" TALL X 5" WIDE X 6" DEEP, REF. FRONT VIEW)
10. SEE NOTE NO. 4 BELOW.

NOTES:
1. ANNUAL SPACING FOR CABLE TRAY = MINIMUM 1-1/2"
2. ANNUAL SPACING FOR PIPE AND CABLE PENETRATIONS = MINIMUM 1"
3. INSTALL HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST AROUND CABLE TRAY, CABLES, OR PIPE PENETRATIONS.
4. IF THE ANNUAL IS GREATER THAN 5", PROVIDE A STEEL WIRE MESH (NOMINAL 2" SQUARES, NO. 16 SWG) INSTALL ON EACH SIDE OF THE OPENING.
5. MAXIMUM AREA OF OPENING = 2496 SQUARE INCHES.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

1 MULTIPLE PENETRATING ITEMS THROUGH CONCRETE FLOOR OR WALL
NO SCALE

U.L. SYSTEM NO. WL8004
F RATING = 2-HR.
T RATING = 1/4-HRS.
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ FT
L RATING AT 400°F = 4 CFM/SQ FT.

1. GYPSUM WALL ASSEMBLY (2-HR. FIRE-RATING)
2. MAXIMUM 3" DIAMETER ELECTRICAL METALLIC TUBING (EMT)
3. MAXIMUM 25 PAIR NO. 24 AWG (OR SMALLER) TELEPHONE CABLES
4. MAXIMUM 3/8" NO. 10 AWG (WITH GROUND) POWER CABLE WITH PVC INSULATION
5. MAXIMUM 300 KCMIL (OR SMALLER) POWER CABLE WITH PVC INSULATION AND NYLON JACKET
6. MAXIMUM 2" DIAMETER STEEL PIPE, COPPER PIPE, EMT, OR STEEL CONDUIT
7. NO. 8 STEEL WIRE MESH, 4-3/4" LONG (OR STANDARD METAL DRYWALL TRACK SCREW) SECURELY IN PLACE, CENTERED IN OPENING
8. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PFC DENSITY) TIGHTLY PACKED
9. MINIMUM 1/2" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.

NOTES:
1. MAXIMUM AREA OF OPENING = 96 SQUARE INCHES WITH MAXIMUM DIMENSION OF 12"
2. DISTANCE BETWEEN ITEMS = MINIMUM 1-3/4" MAXIMUM 1"
3. DISTANCE FROM EDGE OF OPENING = MINIMUM 1/2" MAXIMUM 1"
(EXCEPTION: 300 KCMIL POWER CABLE MUST BE MINIMUM 1-1/2" FROM EDGE OF OPENING).

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

6 MULTIPLE METAL PIPE AND CABLE THROUGH 2-HR. GYPSUM WALL
NO SCALE

U.L. SYSTEM NO. WL3085
F RATING = 1-HR. OR 2-HR.
T RATING = 0-HRS.
L RATING AT AMBIENT = 1 CFM/SQ FT
L RATING AT 400°F = 4 CFM/SQ FT.

1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN)
2. PENETRATING ITEMS TO BE ONE OF THE FOLLOWING:
A. MAXIMUM 1/2" DIAMETER STEEL PIPE (SCH. 20 OR HEAVIER)
B. MAXIMUM 1/2" DIAMETER CAST IRON PIPE
C. MAXIMUM 6" DIAMETER COPPER PIPE
D. MAXIMUM 6" DIAMETER EMT
E. MAXIMUM 6" DIAMETER STEEL CONDUIT
F. 2/0 NO. 8 AWG METAL-CLAD CABLES
G. MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLES
3. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNUAL SPACE TO MAXIMUM EXTENT
4. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT PIPE/GYPSUM WALLBOARD INTERFACE.

NOTES:
1. ANNUAL SPACE = MINIMUM 1/4"

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

5 EMT THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY
NO SCALE

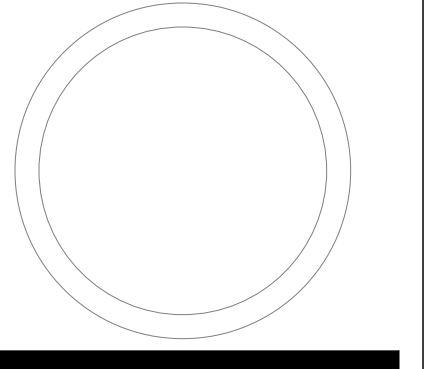
U.L. SYSTEM NO. WL1054
F RATING = 1-HR. OR 2-HR.
T RATING = 0-HRS.
L RATING AT AMBIENT = 1 CFM/SQ FT
L RATING AT 400°F = 4 CFM/SQ FT.

1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN)
2. PENETRATING ITEMS TO BE ONE OF THE FOLLOWING:
A. MAXIMUM 3/8" DIAMETER STEEL PIPE (SCH. 10 OR HEAVIER)
B. MAXIMUM 6" DIAMETER COPPER PIPE
C. MAXIMUM 6" DIAMETER STEEL CONDUIT
D. MAXIMUM 4" DIAMETER STEEL EMT
3. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT
A. MINIMUM 5/8" DEPTH OF SEALANT FOR 1-HR. FIRE-RATING
B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR 2-HR. FIRE-RATING
4. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 32-1/4"
2. ANNUAL SPACE = MINIMUM 0", MAXIMUM 2-1/4"

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

4 METAL PIPE TROUGH GYPSUM WALL ASSEMBLY
NO SCALE





BRIGHAM YOUNG UNIVERSITY
FOUNDED 1875
BYU
PROVO, UTAH

FACILITIES PLANNING
240 BR18B PROVO, UTAH 84602
PHONE: (801) 422-5504
FAX: (801) 422-0566

DATE: 1/31/2024
DESIGNER: C CRAWFORD
DRAWN BY: C CRAWFORD

ADA CHECK: _____
CODE CHECK: _____
STRUCTURAL: _____
UTILITIES DIR: _____
STRUCTURAL: _____
PLANNING DIR: _____

CLIENT APPROVAL: _____ DATE: _____

REVISIONS

BRIGHAM YOUNG UNIVERSITY
RECONFIGURE WORKSPACES 403 HCEB CONTINUING EDUCATION
HCEB - 403

REFERENCE NOTES

SHOP INSTRUCTIONS:

MOVING:

- ① RECONFIGURE EXISTING FURNITURE AS SHOWN IN PLAN. INSTALL NEW FURNITURE.
- ② INSTALL WORKSURFACE - CUT TO FIT AROUND COLUMN.
- ③ RELOCATE EXISTING FURNITURE TO NEW OFFICE

PAINT SHOP:

- ④ PATCH & PAINT WALL WITH ACCENT PAINT COLOR DUE TO FURNITURE REMOVAL.

ELECTRICAL SHOP:

- ⑤ DISCONNECT EXISTING STEELCASE POWER WHIP.
- ⑥ EXISTING STEELCASE POWER WHIP TO REMAIN - DO NOT DISCONNECT
- ⑦ REMOVE EXISTING CONDUIT COMING THROUGH FLOOR FOR POWER & DATA @ TABLE
- ⑧ PROVIDE NEW WALL MOUNTED ELECTRICAL J-BOX, HARDWIRE STEELCASE POWER WHIP TO J-BOX
- ⑨ PROVIDE NEW POKE THRU FOR POWER AND DATA @ TABLE

OIT:

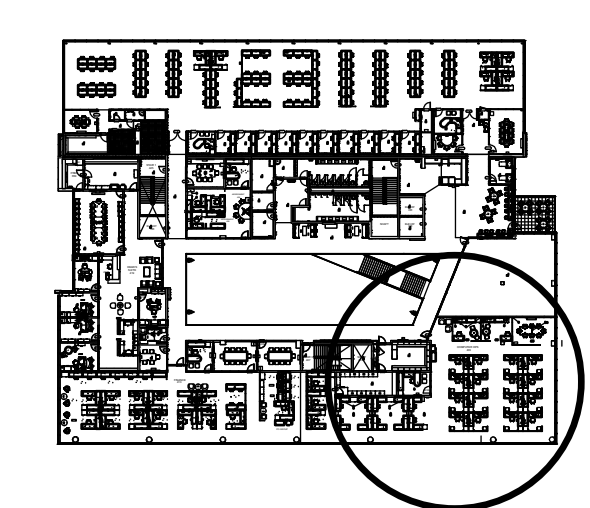
- ⑩ REMOVE, REROUT & INSTALL NEW NETWORK CABLES FOR NEW LAYOUT.

UPHOLSTERY SHOP:

- ⑪ REPLACE CARPET SQUARE WHERE CONDUIT WAS REMOVED.

FOR QUESTIONS, CONTACT ARIN OVIAT OR CAROLYN CRAWFORD @ 2-2644

LOCATION PLAN

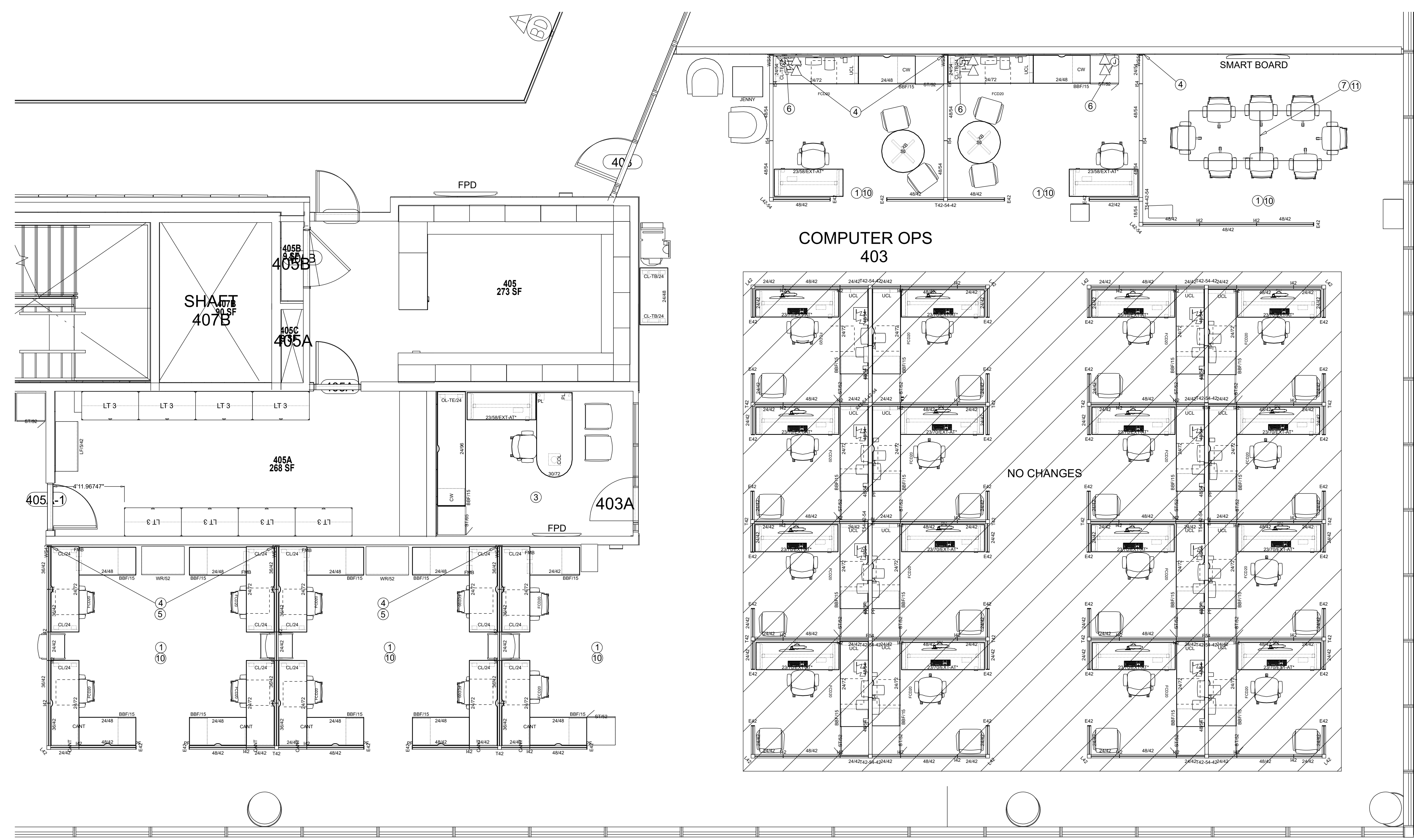


BYU WORK ORDER
N3482

FURNITURE PLAN

F1

CONSTRUCTION DOCUMENTS



EXISTING LAYOUT Scale 1/4" = 1'



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PROVO, UTAH

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240 BR18B PROVO, UTAH 84602
PHONE: (801) 422-5504
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ADA CHECK: _____
CODE CHECK: _____
STRUCTURAL: _____
UTILITIES DIR: _____
STRUCTURAL: _____
PLANNING DIR: _____

CLIENT APPROVAL: _____ DATE: _____

REVISIONS

BRIGHAM YOUNG UNIVERSITY
RECONFIGURE WORKSPACES 403 HCEB
CONTINUING EDUCATION
HCEB - 403

REFERENCE NOTES

SHOP INSTRUCTIONS:

MOVING:

- 1 RECONFIGURE EXISTING FURNITURE AS SHOWN IN PLAN. INSTALL NEW FURNITURE.
- 2 INSTALL WORKSURFACE - CUT TO FIT AROUND COLUMN.
- 3 RELOCATE EXISTING FURNITURE TO NEW OFFICE

PAINT SHOP:

- 4 PATCH & PAINT WALL WITH ACCENT PAINT COLOR DUE TO FURNITURE REMOVAL.

ELECTRICAL SHOP:

- 5 DISCONNECT EXISTING STEELCASE POWER WHIP.
- 6 EXISTING STEELCASE POWER WHIP TO REMAIN - DO NOT DISCONNECT
- 7 REMOVE EXISTING CONDUIT COMING THROUGH FLOOR FOR POWER & DATA @ TABLE
- 8 PROVIDE NEW WALL MOUNTED ELECTRICAL J-BOX, HARDWARE STEELCASE POWER WHIP TO J-BOX
- 9 PROVIDE NEW POKE THRU FOR POWER AND DATA TO TABLE

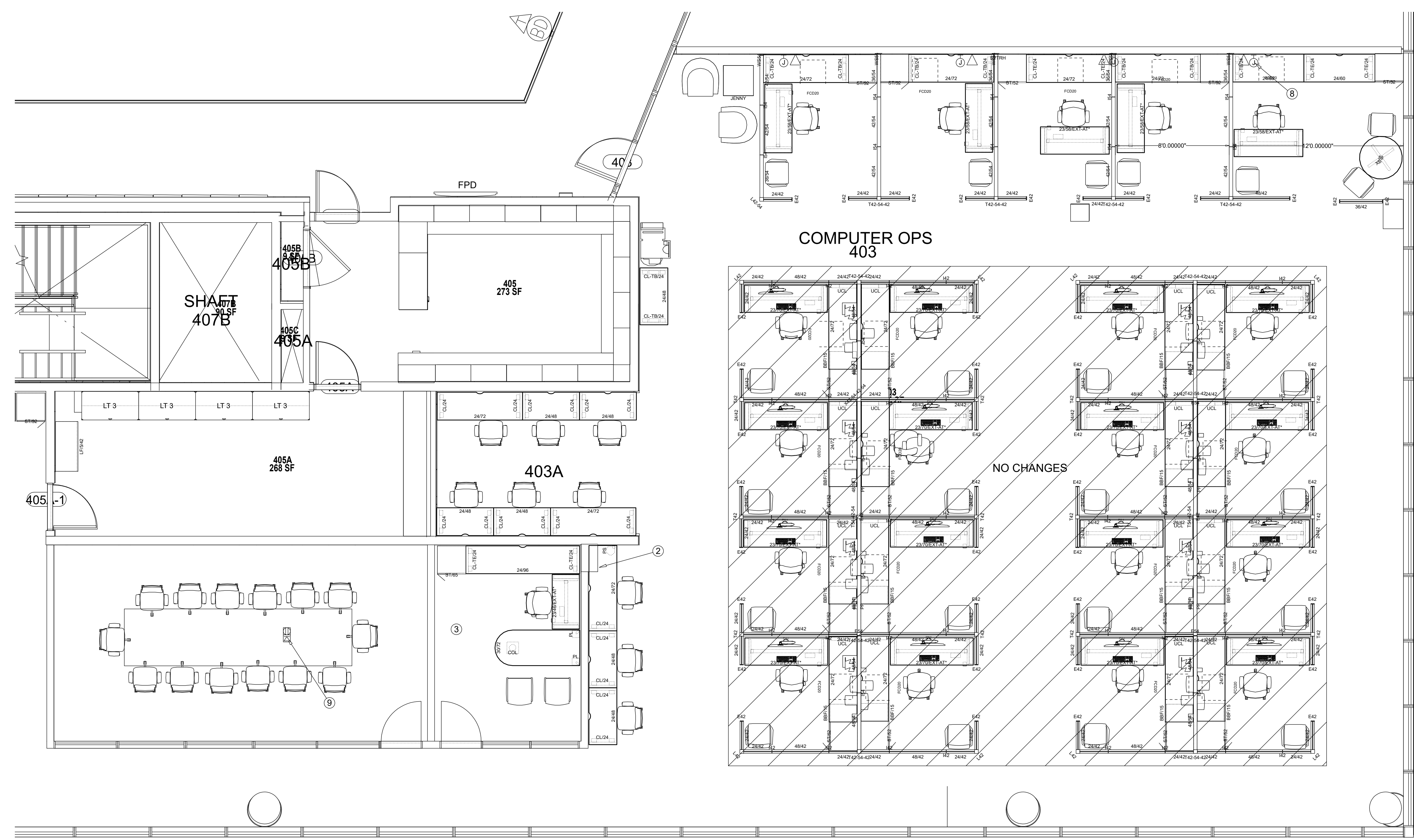
OIT:

- 10 REMOVE, REROUT & INSTALL NEW NETWORK CABLES FOR NEW LAYOUT.

UPHOLSTERY SHOP:

- 11 REPLACE CARPET SQUARE WHERE CONDUIT WAS REMOVED.

FOR QUESTIONS, CONTACT ARIN OVIAT OR CAROLYN CRAWFORD @ 2-2644

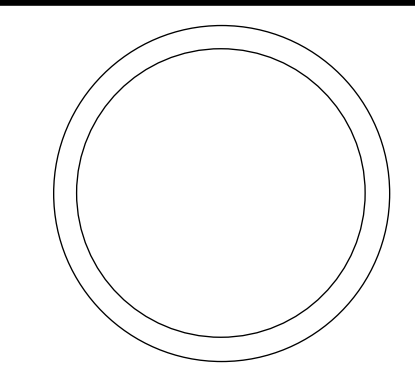
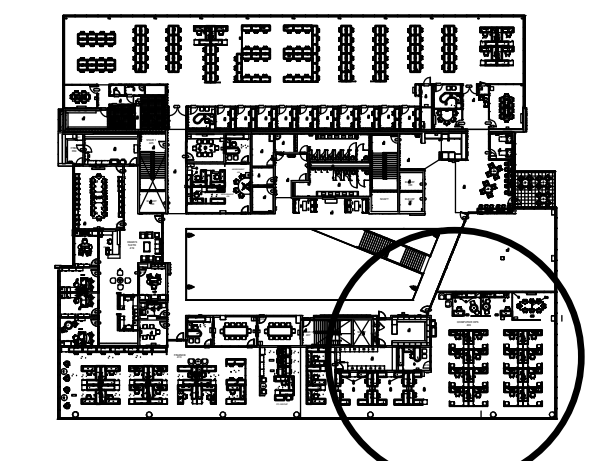


COMPUTER OPS
403

NO CHANGES

NEW LAYOUT Scale 1/4" = 1'

LOCATION PLAN



BYU WORK ORDER
N3482

FURNITURE PLAN

F2

CONSTRUCTION DOCUMENTS