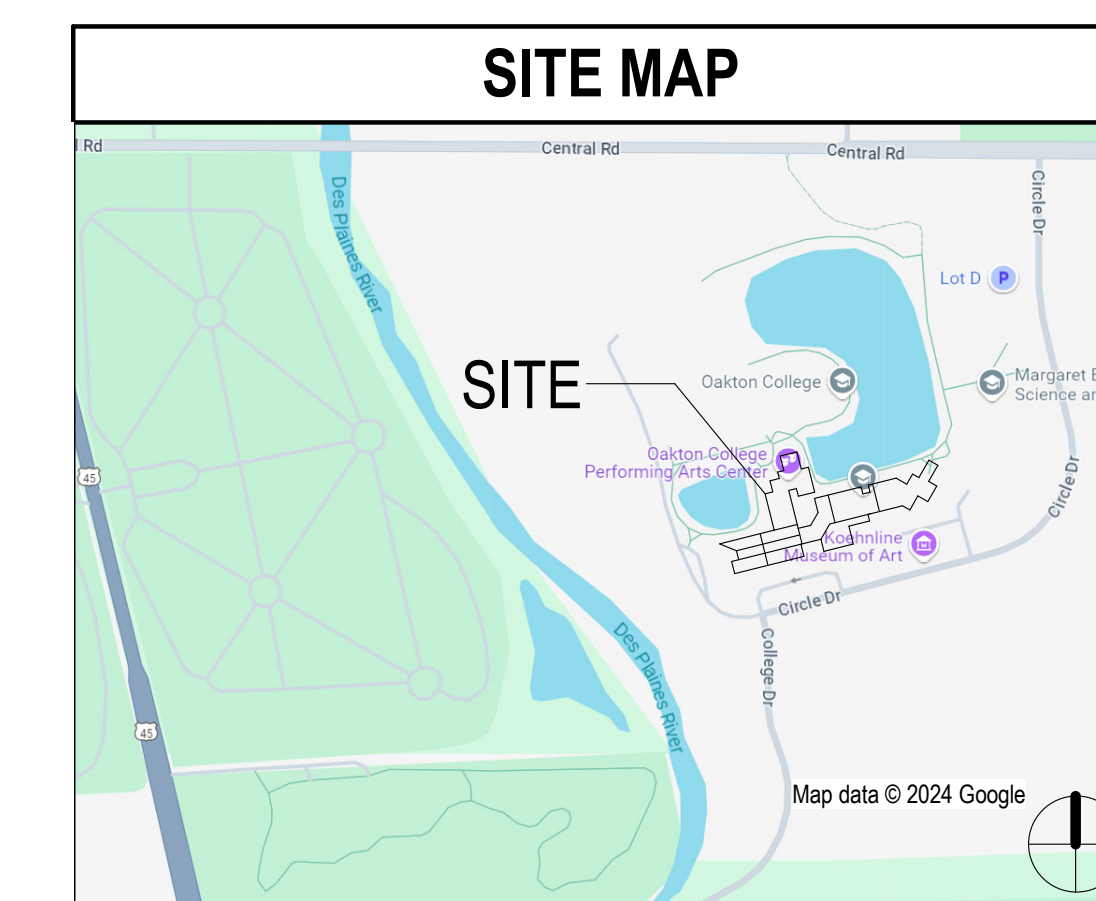
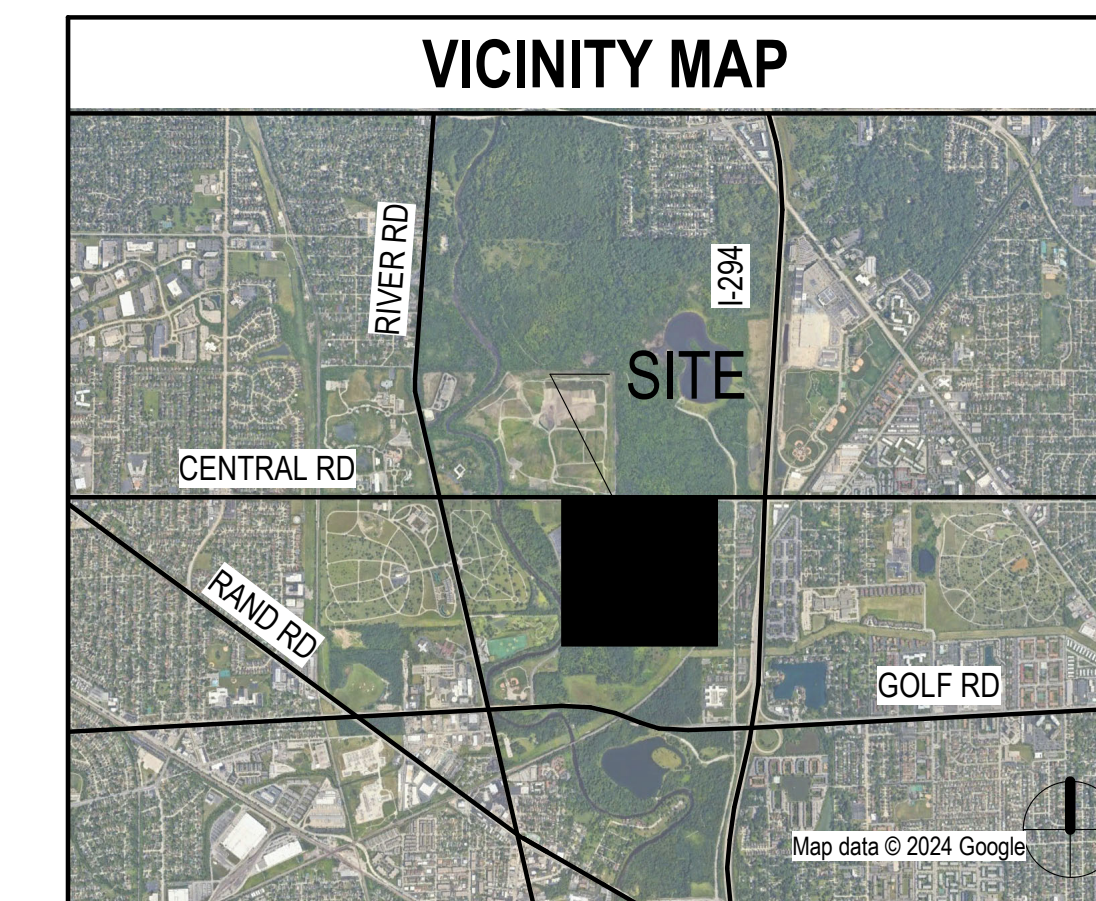
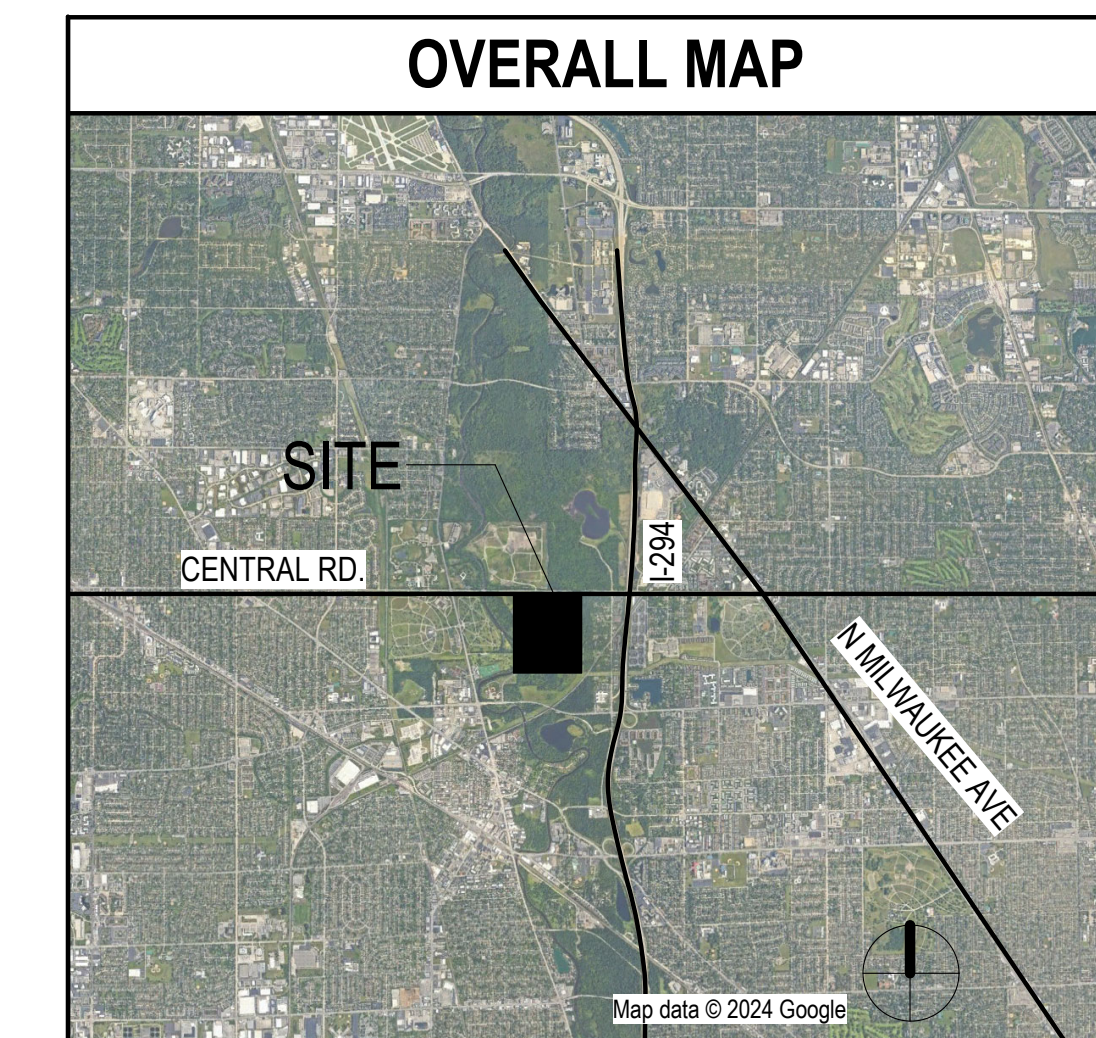




ISSUED FOR BID
23 SEPTEMBER 2024

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OWNER	ARCHITECT	MECH. PLUMBING ELEC. LOW VOLTAGE & FIRE PROTECTION ENGINEERING
OAKTON COLLEGE 1600 E. GOLF RD. DES PLAINES, IL 60016	PERKINS AND WILL 410 N. MICHIGAN AVE. STE. 1600 CHICAGO, IL 60611 DESIGN FIRM #: 184000338-0001	MECHANICAL SERVICES ASSOCIATES, CORP. 111 S. VIRGINIA ST. CRYSTAL LAKE, IL 60014 DESIGN FIRM #: 184001504-0002

7. EGRESS REQUIREMENTS	
A. Egress width per occupant (with sprinkler system)	Section 1005
i. Stairways	0.3 inches per occupant
ii. Other egress components	0.2 inches per occupant
B. Number of Exits	Table 1016.2.1
Occupant load (persons per story)	Minimum number of exits (per story)
501-1000	3
more than 1000	4
C. Spaces with one means of egress	Table 1015.1
Occupancy	Maximum Occupant Load
A, B, E, F, M, U	49
D. Remoteness of exits in a multi-exit space	Section 1007.1.1
2. Where a building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2, the separation distance of the exit doors or exit access doorways shall not be less than one-third of the length of the maximum overall diagonal dimension of the area served.	
E. Exit Access travel Distance	Table 1017.2
i. B - Business Occupancy	300' (with auto sprinkler)
F. Maximum Travel Distance to an Area of Refuge	Section 1009.6.1
i. B - Business Occupancy	300' (with auto sprinkler)
G. Common Path of Travel	Section 1006.2.1
i. B - Business Occupancy	not to exceed 100'
H. Corridor Width	Section 1020.2
i. Minimum width is determined in accordance with Section 1005.1, but not less than 44" (See item 6a above)	
I. Dead Ends	Section 1020.4
i. Where more than one exit or exit access doorway is required, the exit access shall be arranged such that there is no dead end in corridors more than 20' in length.	
ii. Exception - In occupancies in Groups B, E, F, I-1, M, R-1, R-2, R-4, S and U, where the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, the length of the dead-end corridors shall not exceed 50 feet (15 240 mm).	
iii. Exception - A dead-end corridor shall not be limited in length where the length of the dead-end corridor is less than 2.5 times the least width of the dead-end corridor.	
J. Exit Passageway Width	Section 1024.2
i. The width of exit passageways shall be determined as specified in Section 1005.1 (Item 6A above) but such width shall not be less than 44 inches, except that exit passageways serving an occupant load of less than 50 shall not be less than 36 inches in width. The required width of exit passageways shall be unobstructed.	
K. Stairway Width	Section 1011.2
i. Width of Stairways shall be determined as specified in Section 1005.1 (Item 6A above), but such width shall not be less than 44 inches.	
ii. Exceptions: Stairways serving an occupant load of less than 50 shall have a width of not less than 36 inches.	
L. Stairway Headroom	Section 1011.3
80 inches minimum	
M. Stairway Remoteness	Section 1007.1.1 Exception 2
i. Where a building is equipped throughout with an automatic sprinkler system, the separation distance shall be not less than one-third of the length of the maximum overall diagonal dimension of the area served.	
N. Area of Rescue Assistance	Section 1009.3.5
i. Areas of refuge are not required at stairways in buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2	
O. Exit Discharge	Section 1028.1
i. maximum of 50 percent of the number and capacity of the exit enclosures is permitted to egress through areas on the level of discharge provided all of the following are met:	
1.1. Discharge of the interior exit stairways and ramps shall be provided with a free and unobstructed path of travel to an exterior exit door and such exit is readily visible and identifiable from the point of termination of the enclosure.	
1.2. The entire area of the level of exit discharge is separated from areas below by construction conforming to the fire-resistance rating for the enclosure.	
1.3. The egress path from the interior exit stairway and ramp on the level of exit discharge is protected throughout by an approved automatic sprinkler system. Portions of the level of exit discharge with access to the egress path shall be either equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2, or separated from the egress path in accordance with the requirements for the enclosure of interior exit stairways or ramps.	
1.4. Where a required interior exit stairway or ramp and an exit access stairway or ramp serve the same floor level and terminate at the same level of exit discharge, the termination of the exit access stairway or ramp and the exit discharge door of the interior exit stairway or ramp shall be separated by a distance of not less than 30 feet (9144 mm) or not less than one-fourth the length of the maximum overall diagonal dimension of the building, whichever is less. The distance shall be measured in a straight line between the exit discharge door from the interior exit stairway or ramp and the last tread of the exit access stairway or termination of slope of the exit access ramp.	
ii. Not more than 50 percent of the number and minimum width or required capacity of the interior exit stairways and ramps is permitted to egress through a vestibule provided all of the following conditions are met:	
2.1. The entire area of the vestibule is separated from areas below by construction conforming to the fire-resistance rating of the interior exit stairway or ramp enclosure.	
2.2. The depth from the exterior of the building is not greater than 10 feet (3048 mm) and the length is not greater than 30 feet (9144 mm).	
2.3. The area is separated from the remainder of the level of exit discharge by a fire partition constructed in accordance with Section 708	
Exception: The maximum transmitted temperature rise is not required.	
2.4. The area is used only for means of egress and exits directly to the outside.	

6. BUILDING AREA & OCCUPANT LOAD	
Table 1004.1.1	
OCCUPANCY USE	FLOOR AREA PER OCCUPANT (S.F.)
A. Accessory Storage Areas, Mechanical Equipment Rooms	300 gross
B. Assembly without fixed seats	7 net
-Concentrated (chairs only - not fixed)	5 net
-Standing Space	15 net
-Unconcentrated (tables and chairs)	
C. Educational	20 net
-Classroom area	
D. Exercise Rooms	50 gross
E. Locker Rooms	50 gross
F. Business	100 gross
FLOOR	AREA (S.F.)
A. Lower Level 01	Total 53,114 sf
B. Level 01	Total 222,023 sf
C. Level 02	Total 149,997 sf
D. Level 03	Total 8,204 sf
E. Total Square Footage	473,984 sf

5. FIRE PROTECTION		
BUILDING ELEMENT	RATING	REFERENCE
A. Structural Frame	1 hours	Table 601
B. Bearing Walls		
i. Exterior Walls	1 hours	Table 601
ii. Interior Walls	1 hours	
C. Non Bearing Walls and Partitions		
i. Exterior Walls		Table 602
a. 0'-8' Separation	1 hour	
b. 5'-10' Separation	1 hour	
c. 10'-30' Separation	1 hour	
d. >30' Separation	0 hours	
ii. Interior	0 hours (except as noted below)	Table 601
D. Floor Construction	1 hour	Table 601
E. Roof Construction	1 hour	Table 601
F. Fire Separation Assemblies		
i. Vertical Exit Enclosures*	1 hour*	Section 1023.2
*Exit enclosures shall have a fire-resistance rating of not less than 2 hours where connecting four stories or more and not less than 1 hour where connecting less than four stories. The number of stories connected by the exit enclosure shall include any basements but not any mezzanines. Exit enclosures shall have a fire-resistance rating of not less than the floor assembly penetrated, but need not exceed 2 hours. Exit enclosures shall lead directly to the exterior of the building or shall be extended to the exterior of the building with an exit passageway conforming to the requirements of section 1023, except as permitted in Section 1027.1. An exit enclosure shall not be used for any purpose other than means of egress.		
ii. Exit Passageways	1 hour (but not less than any connecting enclosure)	Section 1024.3
iii. Corridors	0 hours (when served by an automatic sprinkler system)	Section 1020.1
iv. Horizontal Exits	2 hours	Section 1026.2
v. Vertical Shaft Enclosures*	1 hour*	Section 713.4
Section 708.4: *Shaft enclosures shall have a fire-resistance rating of not less than 2 hours where connecting four stories or more, and not less than 1 hour where connecting less than four stories. The number of stories connected by the shaft enclosure shall include any basements but not any mezzanines. Shaft enclosures shall have a fire-resistance rating not less than the floor assembly penetrated, but need not exceed 2 hours. Shaft enclosures shall meet the requirements of Section 703.2.1		
G. Interior Wall and Ceiling Finishes		Table 803.11
i. Exit enclosures / Exit passageways	Class B (Sprinklered)	
ii. Corridors	Class C (Sprinklered)	
iii. Rooms and Enclosed Spaces	Class C (Sprinklered)	
H. Maximum area of Exterior Wall Openings (Unprotected)		Table 705.8
i. 0'-3' Separation	Not permitted	
ii. 3'-5' Separation	15%	
iii. 5'-10' Separation	25%	
iv. 10'-15' Separation	45%	
v. 15'-20' Separation	75%	
vi. >20' Separation	No Limit	

1. GENERAL INFORMATION	
OWNER / ARCHITECT	
OWNER: OAKTON COLLEGE	ARCHITECT: PERKINS+WILL
CONTACT: RICH SCHWASS SR. MANAGER, CAMPUS FACILITIES & CONSTR.	CONTACT: MICHAEL DOLTER
PHONE: 847-635-1783	PHONE: 312-755-0770
ADDRESS: 1600 East Golf Road Des Plaines, IL 60016	ADDRESS: The Wrigley Building 410 N. Michigan Ave, Suite 1600 Chicago, IL 60611
APPLICABLE CODES	
A. Building	2015 International Building Code
B. Accessibility	2018 Illinois Accessibility Code
C. Life Safety	NFPA 101
D. Fire Prevention:	2015 International Fire Code excluding Chapter 4; 29 IL ADM 1500
E. Plumbing:	2014 Illinois Plumbing Code
F. Mechanical:	2015 International Mechanical Code
G. Zoning:	Des Plaines Community Zoning Map
H. Energy:	2021 International Energy Conservation Code
I. Electric:	2014 National Electric Code
2. OCCUPANCY CLASSIFICATION	
A. Business Group B	
3. CONSTRUCTION TYPE, HEIGHT & AREA	
A. Type IIA	Table 601
B. Maximum Allowable height*	Actual Building Height
Height = 85'-0"	Height = 44'-6 3/4"
Stories Above Grade = 6 stories	Stories= 3 stories above grade + 1 basement
*Table 503 + Section 504.2 Automatic Sprinkler Increase	
C. Maximum Allowable Area per Floor**	Actual Building Area:
i. Business Group: 112,500	473,984 sf
**Table 503 + Section 506.2 Frontage Increase + Section 506.3 Automatic Sprinkler Increase	
Section 506.2.3 Single Occupancy, Multistory Buildings.	
Section 506.3 Frontage Increase.	
#F = [FIP - 0.25]W/30 (Equation 5-5) = 45% Area Factor Increase	
#F = Area factor increase due to frontage	
F = Building perimeter that fronts on a public way = 2,181 LF.	
P = Perimeter of entire building = 3,099 LF.	
W = Width of public way = 30 FT.	
45% Area Increase from Type IIA S.M Building allows 163,125 SF.	
4. LIFE SAFETY GENERAL NOTES	
1. PROVIDE PORTABLE FIRE EXTINGUISHERS AND CABINETS IN ACCORDANCE WITH SECTION 906 OF 2015 IBC.	

FINISH REQUIREMENTS		
WALL AND CEILING FINISH CLASSIFICATION		
CLASS	FLAME SPREAD	SMOKE DEVELOPED
CLASS A	0-25	0-450
CLASS B	26-75	0-450
CLASS C	76-200	0-450
WALL AND CEILING FINISH REQUIREMENTS		
CLASS B	EXITS, EXIT STAIRWAYS, EXIT PASSAGEWAYS	
CLASS B	CORRIDORS, ENCLOSURES FOR EXIT ACCESS STAIRWAYS/ RAMP, ROOMS AND ENCLOSED SPACES; CLASS C INTERIOR FINISH MATERIALS PERMITTED IN ADMINISTRATIVE SPACES OR IN ROOMS WITH A CAPACITY OF 4 PERSONS OR LESS	
FLOOR FINISH CLASSIFICATION		
CLASS I	CRITICAL RADIANT FLUX OF 0.45 WATTS PER SQUARE CENTIMETER OR HIGHER.	
CLASS II	CRITICAL RADIANT FLUX BETWEEN 0.22 WATTS PER SQUARE CENTIMETER OR GREATER.	
FLOOR FINISH REQUIREMENTS		
CLASS II	INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMP, EXIT PASSAGEWAYS AND LOBBIES WHICH ARE PART OF THE EXIT DISCHARGE	
CLASS II	ALL AREAS EXCEPT THOSE LISTED ABOVE	

ACCESSIBILITY NOTES	
1. APPLICABLE ACCESSIBILITY CODES AND STANDARDS:	2018 ILLINOIS ACCESSIBILITY CODE (IAC) 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (ADA) ICC A117.1-2009
2. PATH OF TRAVEL:	BUILDING HAS A FULLY ACCESSIBLE MAIN ENTRY AT GROUND LEVEL. BUILDING HAS A FULLY ACCESSIBLE ROUTE FROM THE MAIN ENTRY TO THE ELEVATOR LOBBY AREA. BUILDING HAS A FULLY ACCESSIBLE ELEVATOR LEADING UP TO THE FLOOR BEING ALTERED. BUILDING HAS PARKING FACILITIES THAT INCLUDE ACCESSIBLE PARKING SPACES. BUILDING HAS ACCESSIBLE ROUTE FROM PUBLIC WAY OR ACCESSIBLE PARKING TO ACCESSIBLE ENTRY.
3. TOILET FACILITIES:	PROJECT HAS ACCESS TO ACCESSIBLE MENS AND WOMENS TOILET ROOM.
5. DOORS:	ALL PUBLIC AND COMMON AREA INTERIOR DOORS TO HAVE A MAXIMUM OPENING FORCE OF 5 POUNDS PER IAC SECTION 404.2.3.
6. FIRE ALARM:	ALL NEW, ALTERED, RELOCATED OR REPLACED FIRE ALARM OR EMERGENCY WARNING SYSTEM DEVICES TO COMPLY FULLY WITH ICC A117.1-2009 SECTION 702. ALL VISUAL ALARMS TO BE SYNCHRONIZED THROUGHOUT.

NOTE TO AHJ:
1. THE PROPOSED PROJECT DOES NOT CHANGE BUILDING CONSTRUCTION TYPE.
2. THE PROPOSED PROJECT DOES NOT "IMPROVE" THE BUILDING AT A VALUE EXCEEDING 50% OF ITS REPLACEMENTS COSTS. (TRIGGERS WHOLISTIC CODE/ACCESSIBILITY UPGRADES)

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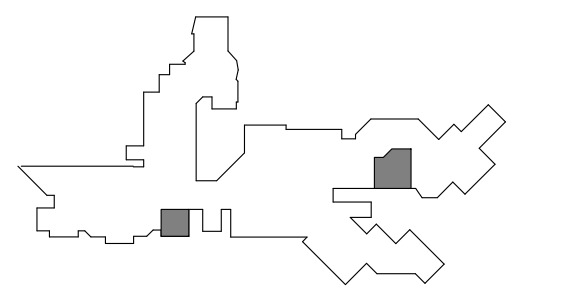
PROJECT

ADJACENCIES
RENOVATIONS
PHASE 1

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016



KEY PLAN



ISSUE CHART

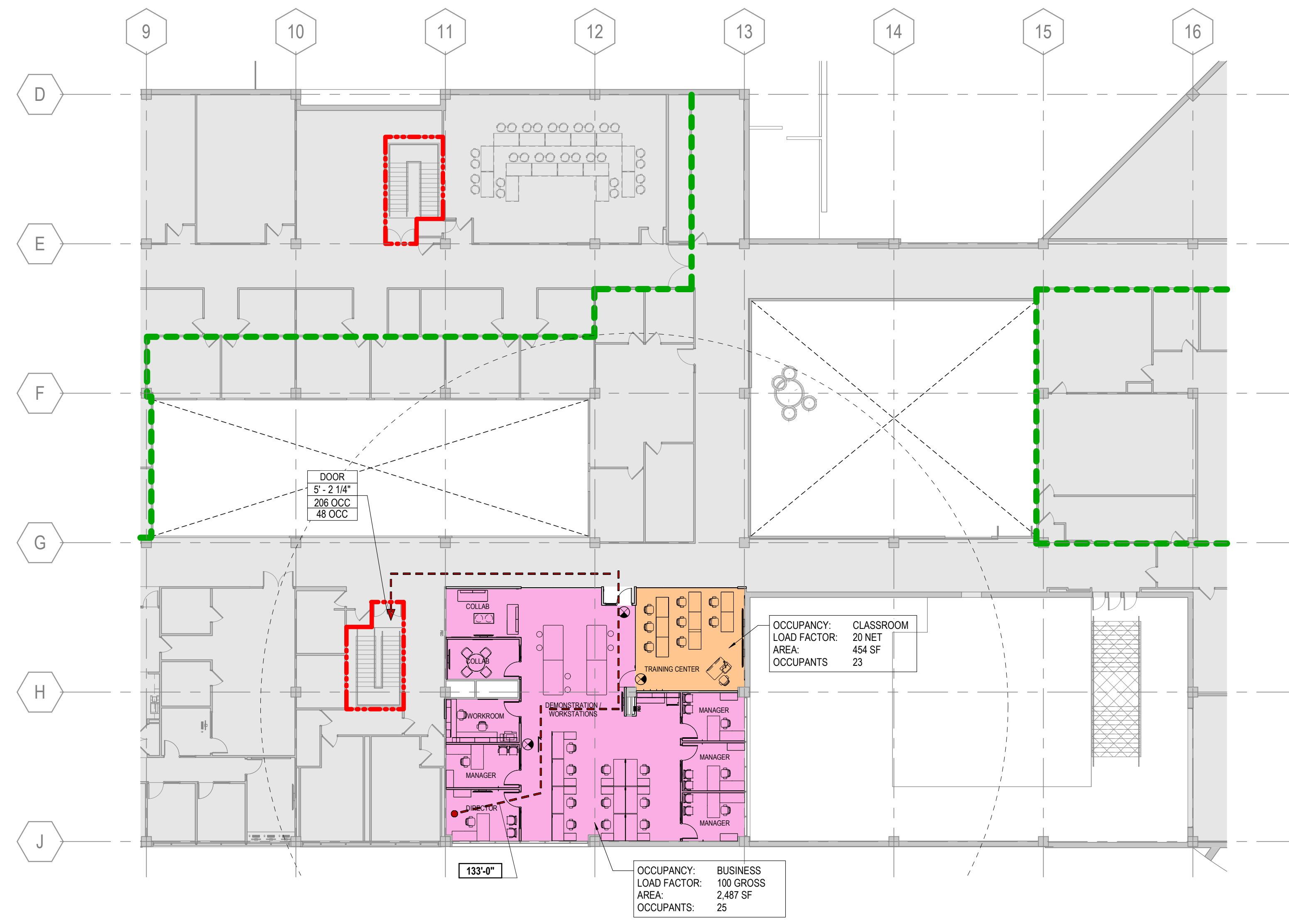
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2	ISSUE	DATE

Job Number 021074 000
TITLE

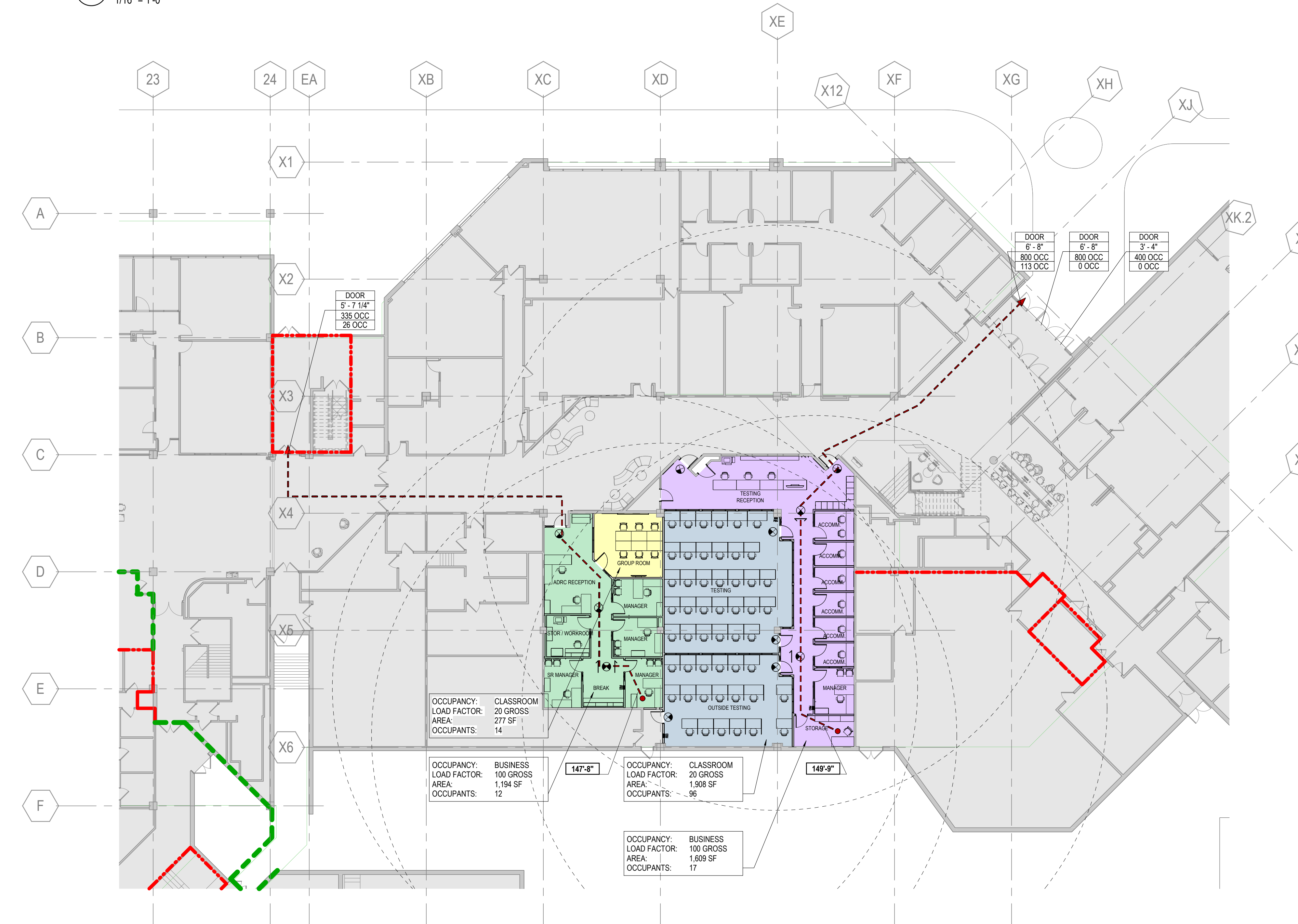
CODE COMPLIANCE
DATA

SHEET NUMBER

8.G01-01



② LEVEL 02 - IT / OPEN CPU LAB CODE COMPLIANCE PLAN
1/16" = 1'-0"



① LEVEL 01 - ADRC & TESTING CENTER CODE COMPLIANCE PLAN
1/16" = 1'-0"

**CODE COMPLIANCE PLAN
GENERAL NOTES**

1. ALL WORK IS TO BE DONE IN ACCORDANCE WITH APPLICABLE CODES.
2. FINAL LOCATIONS OF ALL LIFE SAFETY DEVICES AND FIXTURES ARE SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION.

EGRESS COMPONENTS

NOT IN CONTRACT

EGRESS COMPONENTS - PATH OF TRAVEL

EXIT ACCESS = 999'-11"

FIRE EXTINGUISHER & CABINET (HALFTONE IF EXISTING)

FIRE EXTINGUISHER & CABINET SURFACE MOUNTED (HALFTONE IF EXISTING)

EXIT SIGN

DOOR	EGRESS COMPONENT AND OPTIONAL GROUP
19"	ACTUAL WIDTH PROVIDED
226 OCC	ALLOWABLE OCCUPANT LOAD
192 OCC	ACTUAL OCCUPANT LOAD

AREA TAG

ASSEMBLY - UNCONC. TABLES & CHAIRS

FUNCTION OF SPACE

AREA

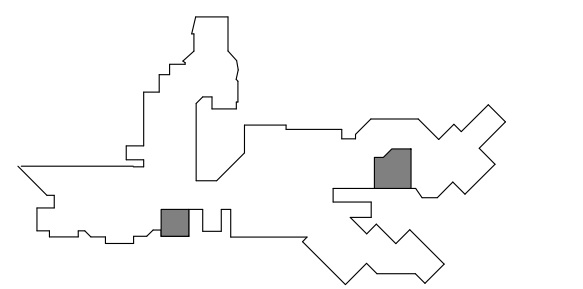
OCCUPANT LOAD FACTOR

OCCUPANTS

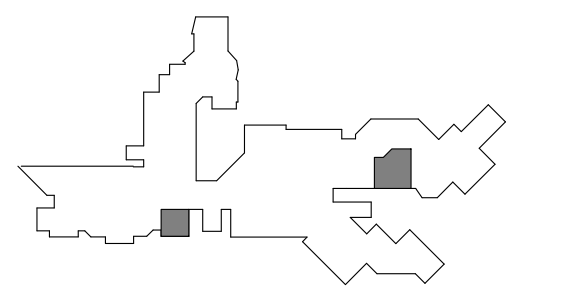
FIRE AND SMOKE RATING LEGEND

- EXISTING 2 HOUR FIRE WALL TO REMAIN
- EXISTING SMOKE BARRIER TO REMAIN
- EXISTING CONSTRUCTION TO REMAIN
- NEW NON-RATED CONSTRUCTION

ISSUED FOR BID 23 SEPTEMBER 2024



ISSUED FOR BID	23 SEP 24
ISSUE	DATE
Job Number	021074.000
TITLE	



NO.	ISSUED FOR BID	23 SEP 24
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Job Number	021074.000	TITLE

GENERAL PROJECT NOTES

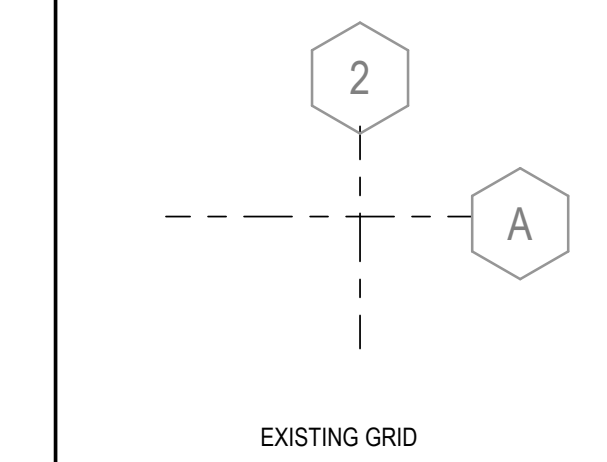
- REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
- DO NOT SCALE THE DRAWINGS. IF DIMENSIONS ARE IN QUESTION OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING.
- DIMENSIONS SHOWN ON THE FLOOR PLANS FOR NEW CONSTRUCTION ARE TO THE FACE OF GYPSUM BOARD FOR PARTITIONS. TO CENTER LINE OF COLUMNS AND TO FACE OF CONCRETE OR MASONRY WALLS UNLESS OTHERWISE INDICATED. DIMENSIONS IN RENOVATED AREAS ARE FROM FINISH FACE OF EXISTING WALLS AND TO FINISH FACE OF GYPSUM BOARD FOR NEW PARTITIONS UNLESS OTHERWISE INDICATED.
- FIELD MEASURE AND CONFIRM DIMENSIONS FOR OWNER PROVIDED EQUIPMENT AND FURNISHINGS. COORDINATE WITH THE OWNER ON DELIVERY AND INSTALLATION OF OFFICE EQUIPMENT. MINIMUM REQUIRED OPENINGS AND ACCESSIBLE ROUTES TO THE INSTALLATION AREA SHALL BE COORDINATED WITH THE SUPPLIER.
- FINISH FLOOR ELEVATIONS ARE TO TOP OF STRUCTURAL FLOOR UNLESS OTHERWISE NOTED.
- WHERE NEW GYPSUM BOARD PARTITIONS ARE A CONTINUATION OF AN EXISTING PARTITION OR COLUMN ENCASEMENT, THE FACE OF THE NEW GYPSUM BOARD SHALL BE ALIGNED WITH THE FACE OF THE EXISTING SURFACE.
- PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A PARTITION ARE TO BE CONSISTENT FOR THE LENGTH AND HEIGHT OF A PARTITION.
- OPENINGS IN A RATED WALL, FLOOR, CEILING AND ROOF ASSEMBLIES SHALL BE SEALED WITH A FIRE RESISTANT JOINT SYSTEMS OR PROTECTED WITH A FIRE RATED CHASE.
- WHERE MATERIALS ARE APPLIED TO, OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.
- ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.
- COORDINATE LOCATION OF SEALANT AND COMPATIBILITY OF SEALANTS WITH ADJACENT WORK, INCLUDING MATERIALS AND OTHER CONTIGUOUS SEALANTS.
- MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN FIRE RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
- DO NOT HANG (SUPPORT) ANY ITEMS FROM METAL ROOF DECK. IT IS ACCEPTABLE TO ATTACH CEILING SYSTEM WIRE HANGERS FROM JOISTS OR BEAMS. IF NO JOIST OR BEAM IS AVAILABLE, PROVIDE SUPPLEMENTAL STEEL SUPPORTS.

MATERIALS AT LARGE SCALES

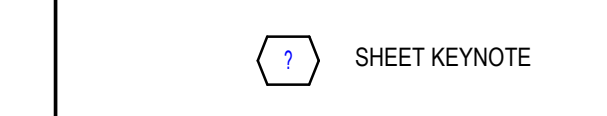
	SOIL
	GRAVEL, POROUS FILL
	CONCRETE
	TERRAZZO
	CUT STONE
	BRICK, COMMON FACE
	CONCRETE MASONRY UNIT
	STEEL
	ALUMINUM / ORNAMENTAL METAL
	BLOCKING OR SHIM
	FINISH WOODWORK
	PLYWOOD
	GYPSUM BOARD OR SHEATHING
	RIGID INSULATION
	BATT INSULATION
	ACOUSTICAL CEILING
	SPRAY-ON FIREPROOFING OR INSULATION

SYMBOLS LEGEND

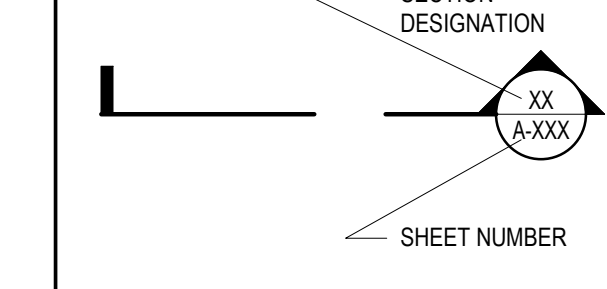
COLUMN GRID DESIGNATION



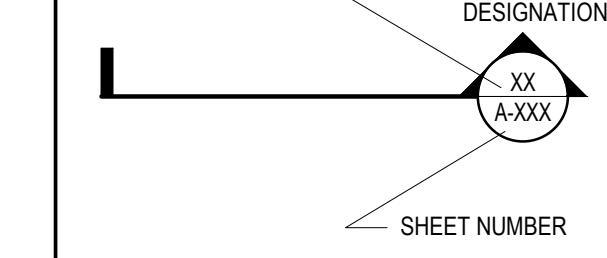
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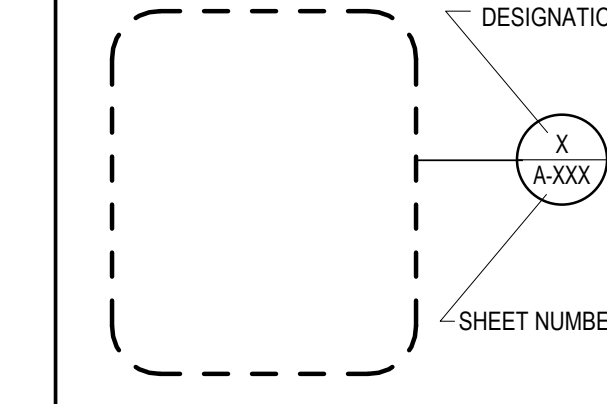
BUILDING SECTION TAG



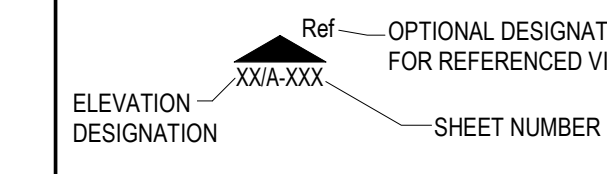
WALL / DETAIL SECTION TAGS



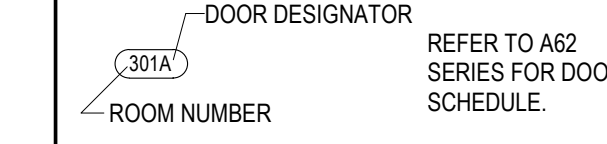
ENLARGED PLAN TAG



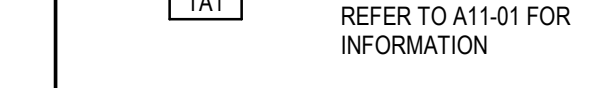
INTERIOR ELEVATION TAGS



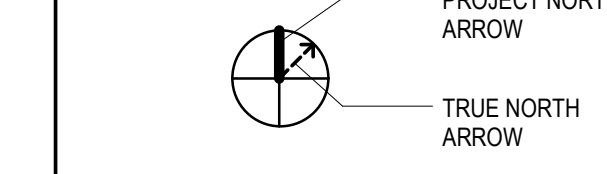
DOOR IDENTIFICATION TAG



EQUIPMENT DESIGNATION



NORTH ARROW

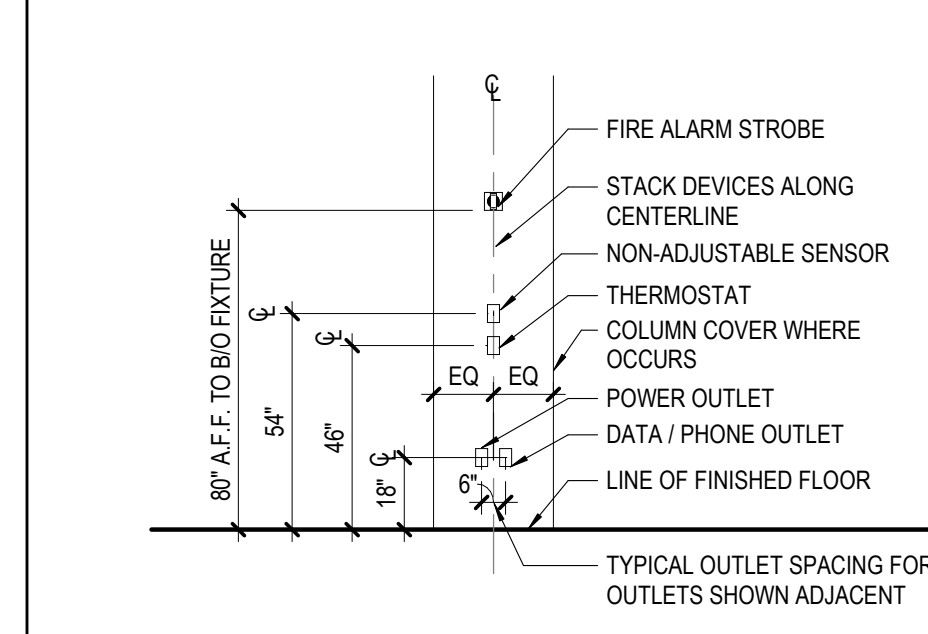
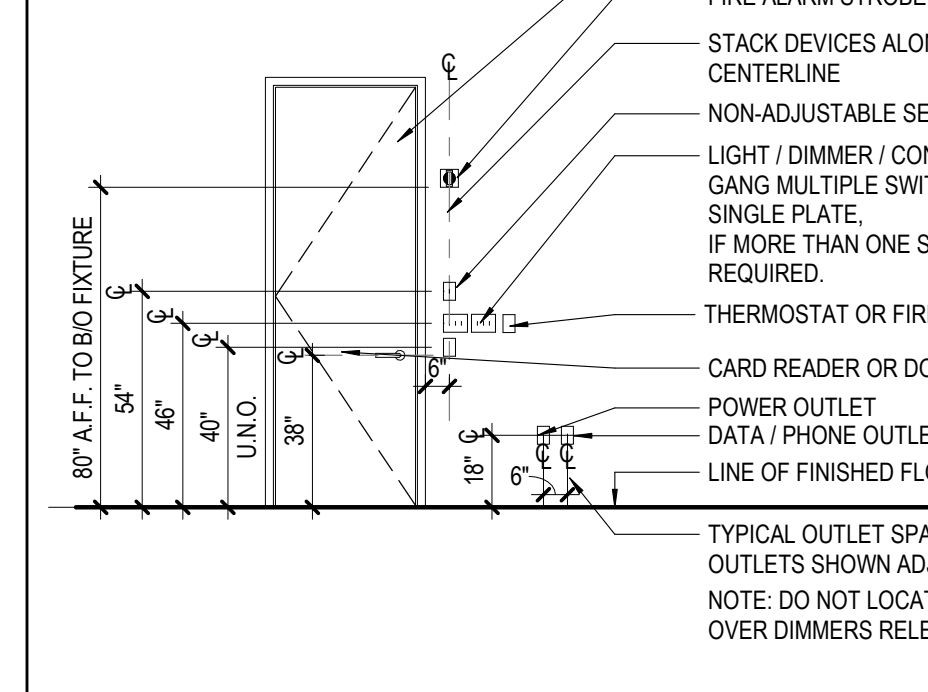
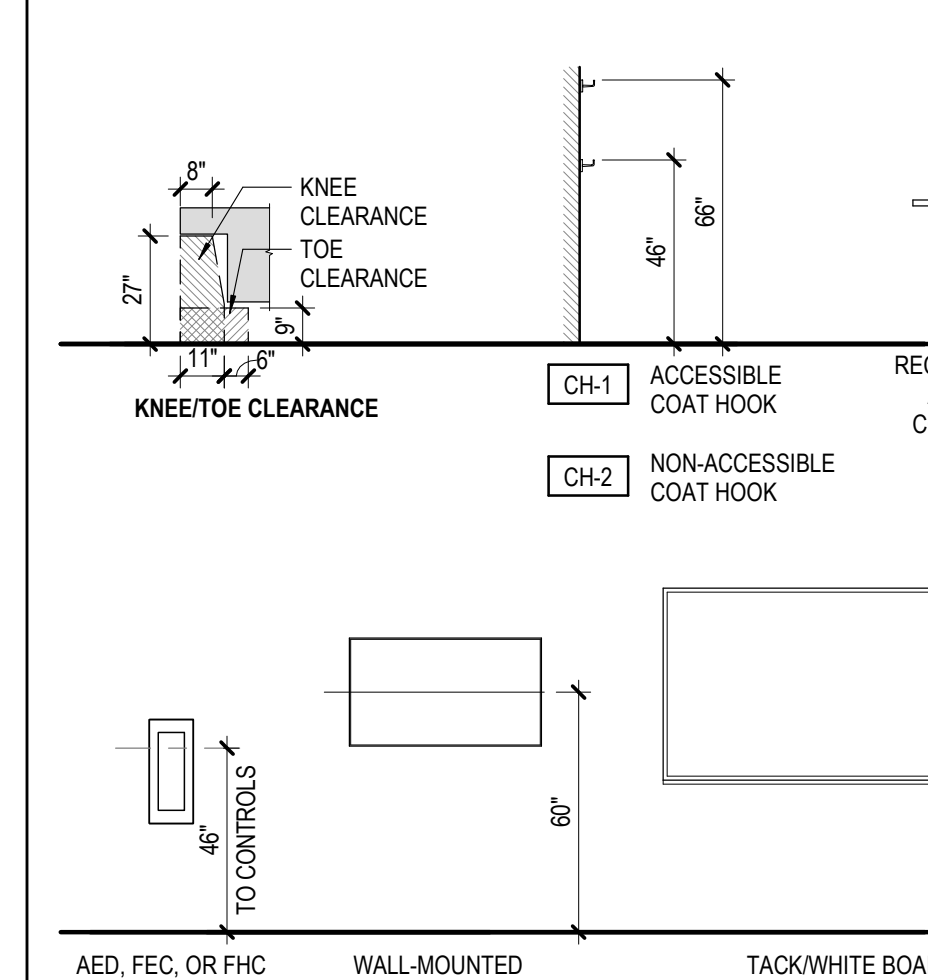


PARTITION TAG



MOUNTING DIMENSIONS

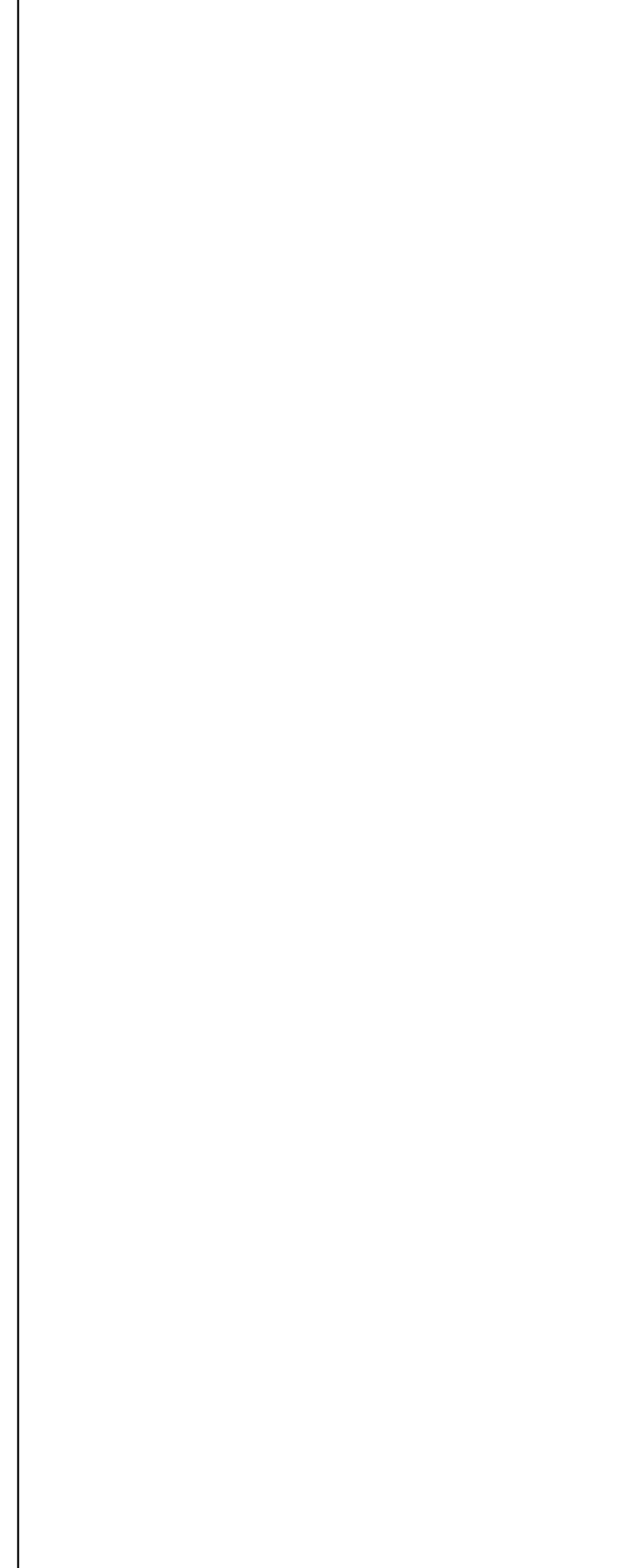
MOUNTING INFORMATION SHOWN HERE IS COMPLIANT WITH REQUIREMENTS OF ICC A117.1-2009 AND 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN



ABBREVIATIONS

APC	ACOUSTICAL PANEL CEILING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL, ARCHITECT
BLDG	BUILDING
CF/CI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CF/IOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CF/MF	CONTRACTOR FURNISHED, OWNER INSTALLED
CG	CORNER GUARD
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
cm	CENTIMETER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
COORD	COORDINATE
DBL	DOUBLE
DEG	DEGREE
DEM0	DEMOLISH DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DS	DOWNSPOUT
DWG	DRAWING
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FACE
FHC	FIRE HOSE CABINET (FINISHED)
FIN	FINISHED
FLR	FLOOR
FP	FIRE PROTECTION FIREPROOF
FRTW	FIRE RETARDANT TREATED WOOD
FT	FOOT (FEET)
FTG	FOOTING
FURN	FURNISH, FURNITURE
GA	GAGE
GALV	GALVANIZED
GFRG	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GLU LAM	GLUED LAMINATED WOOD
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
H	HIGH
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
L	LONG LENGTH
LAM	LAMINATED
LF	LINEAR FOOT, (FEET)
LP	LOW POINT
LVR	LOUVER
m	METER
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
mm	MILLIMETER
MO	MASONRY OPENING
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED
OF/IOI	OWNER FURNISHED, OWNER INSTALLED
OPH	OPPOSITE HAND
PCC	PRE-CAST CONCRETE
PERF	PERFORATED
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PNT	PAINT
PREFAB	PREFABRICATED(D)
PROJ	PROJECT
PROCP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
R	RADIUS, RISER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REINF	REINFORCE, REINFORCING
REQ(D)	REQUIRED, REQUIRED
REV	REVISION
RM	ROOM
RO	ROUGH OPENING
S	SOUTH
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT(FEET)
SIM	SIMILAR
SPEC	SPECIFICATION
SST	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STRUCT	STRUCTURAL
T	TREAD
T/	TOP OF
T&G	TONGUE & GROOVE
TEMP	TEMPORARY
THK	THICK
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UL	UNDERWRITERS' LABORATORIES UNLESS NOTED OTHERWISE
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VF	VERIFY IN FIELD
W	WEST
W	WITH
W/O	WITHOUT
WD	WOOD
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
X	BY

SYMBOLS LEGEND



DEMOLITION CEILING PLAN GENERAL NOTES	
1.	THE CONTRACTOR SHALL FIELD SURVEY THE SITE OF PROPOSED WORK TO DETERMINE THE EXTENT AND NATURE OF THE DEMOLITION WORK. REFER TO ALL CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND SCOPE OF DEMOLITION WORK. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
2.	PROTECTION SHALL BE PROVIDED FOR BASE BUILDING CONSTRUCTION AND ALL EXISTING CONSTRUCTION TO REMAIN.
3.	THE CONTRACTOR SHALL REVIEW ALL EXISTING CONDUIT, WIRING, JUNCTION BOXES, ELECTRICAL COMMUNICATION, AND LIFE SAFETY DEVICES WITH THE LANDLORD AND OWNER PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK. ALL EXISTING ITEMS TO REMAIN SHALL BE PROPERLY MARKED AT THE PROJECT SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LANDLORD AND OWNER.
4.	COORDINATE WITH OWNER TO VERIFY THAT OWNER HAS REMOVED ALL ITEMS SCHEDULED OR PLANNED TO BE REMOVED BY OWNER.
5.	WHERE PLUMBING, WATER LINES, WASTES, AND VENTS ARE REMOVED, THEY SHALL BE DISCONNECTED AND CAPPED AT THE TAP CONNECTION, ADEQUATELY RECESS TO ACCOMMODATE PATCHING AND FINISH OF THE FINISH SURFACE.
6.	REMOVE ALL LOW VOLTAGE CABLING AND CONNECTORS THAT ARE NOT REQUIRED FOR THE OPERATION OF THE FINAL LOW VOLTAGE SYSTEM.
7.	ALL EMPTY CONDUITS TO BE REMOVED.
8.	REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED AT NO COST TO OWNER OR ARCHITECT. IMMEDIATELY REPAIR ANY DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS.

DEMOLITION PLAN GENERAL NOTES	
1.	THE CONTRACTOR SHALL FIELD SURVEY THE SITE OF PROPOSED WORK TO DETERMINE THE EXTENT AND NATURE OF THE DEMOLITION WORK. REFER TO ALL CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS AND SCOPE OF DEMOLITION WORK. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
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4.	COORDINATE WITH OWNER TO VERIFY THAT OWNER HAS REMOVED ALL ITEMS SCHEDULED OR PLANNED TO BE REMOVED BY OWNER.
5.	WHERE PARTITIONS ARE BEING REMOVED, ALL ELECTRICAL OUTLETS AND SWITCHES SHALL BE DISCONNECTED AT SUPPLY JUNCTION BOXES, UNO.
6.	WHERE PLUMBING, WATER LINES, WASTES, AND VENTS ARE REMOVED, THEY SHALL BE DISCONNECTED AND CAPPED AT THE TAP CONNECTION, ADEQUATELY RECESS TO ACCOMMODATE PATCHING AND FINISH OF THE FINISH SURFACE.
7.	WHERE TACKLESS CARPET AND/OR PAD ARE BEING REMOVED, REMOVE MECHANICAL ATTACHMENTS TO THE FLOOR.
8.	WHERE GLUE DOWN CARPET, RESILIENT FLOORING OR OTHER GLUED FLOOR INSTALLATIONS ARE TO BE REMOVED, REMOVE ALL ADHESIVE TO LEAVE THE FLOOR WITH A SMOOTH FINISH.
9.	REMOVE ALL LOW VOLTAGE CABLING AND CONNECTORS THAT ARE NOT REQUIRED FOR THE OPERATION OF THE FINAL LOW VOLTAGE SYSTEM.
10.	ALL EMPTY CONDUITS TO BE REMOVED.
11.	REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED AT NO COST TO OWNER OR ARCHITECT. IMMEDIATELY REPAIR ANY DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS.

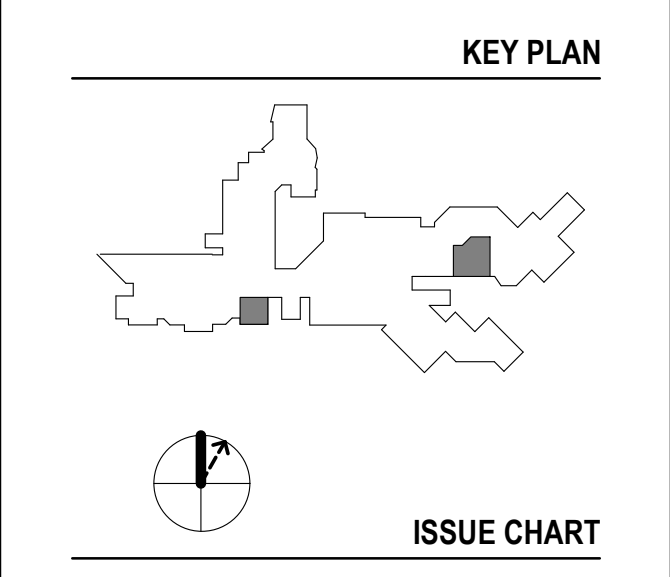
LEGEND	
	NOT IN CONTRACT
	EXISTING CONSTRUCTION TO REMAIN
	EXISTING CONSTRUCTION TO BE DEMOLISHED
	EXISTING ACOUSTICAL TILE CEILING SYSTEM TO BE DEMOLISHED
	FIXTURE TO REMAIN
	FIXTURE TO BE DEMOLISHED

LEGEND	
	NOT IN CONTRACT
	EXISTING CONSTRUCTION TO REMAIN
	CONSTRUCTION TO BE REMOVED

DEMOLITION PLAN KEYNOTES	
	<<< Indicates Sheet Keynote on Plan
CDM1	REMOVE CLOCK AND SPEAKER. SALVAGE FOR RE-INSTALLATION
CDM2	DEMOLISH CEILING GRID AND TILES. SALVAGE CEILING-MOUNTED EQUIPMENT & SIGNAGE FOR RE-INSTALLATION
CDM3	REMOVE LIGHT FIXTURES; RETURN TO OWNER UPON REQUEST; PREPARE FOR NEW FIXTURES
CDM4	REMOVE PROJECTION SCREEN; RETURN TO OWNER
CDM5	REMOVE CEILING-MOUNTED PROJECTOR; RETURN TO OWNER
DM1	DEMOLISH PARTITION & WALL BASE; EXTENTS AS SHOWN; PATCH & REPAIR ADJACENT CONSTRUCTION TO MATCH EXISTING
DM2	REMOVE DOOR, FRAME, & HARDWARE; RETURN DOOR & HARDWARE TO OWNER AS REQUESTED
DM3	DEMOLISH CASEWORK; CUT CAP & SEAL UTILITIES BACK TO SOURCE; PATCH & REPAIR ADJACENT CONSTRUCTION TO MATCH EXISTING
DM4	REMOVE DOOR & HARDWARE; EXISTING FRAME TO REMAIN; RETURN DOOR TO OWNER AS REQUESTED
DM5	REMOVE WHITE BOARDS; RETURN TO OWNER
DM6	DEMOLISH GLAZING SYSTEM; EXTENTS AS SHOWN
DM8	REMOVE COAT HOOKS; RETURN TO OWNER
DM9	DEMOLISH CARPET FLOORING & PREPARE FOR NEW FLOORING
DM18	REMOVE FIRE EXTINGUISHER; SALVAGE FOR RE-INSTALLATION
DM19	REMOVE WALL-MOUNTED TACK BOARD; RETURN TO OWNER
DM22	REMOVE WALL-MOUNTED TV; RETURN TO OWNER

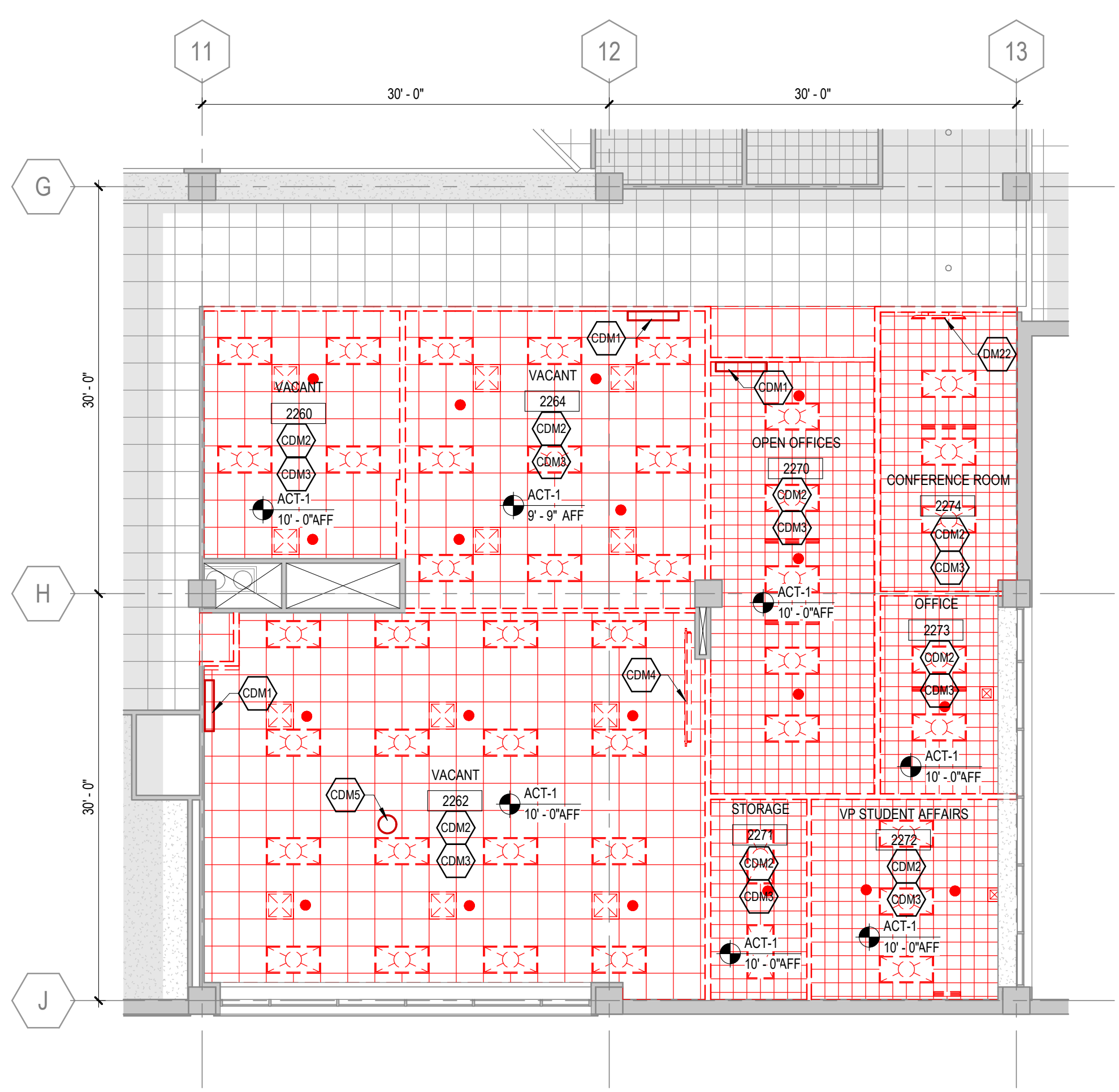
PROJECT
ADJACENCIES RENOVATIONS PHASE 1
DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016
Oakton College
OAKTON COLLEGE

ISSUED FOR BID 23 SEPTEMBER 2024

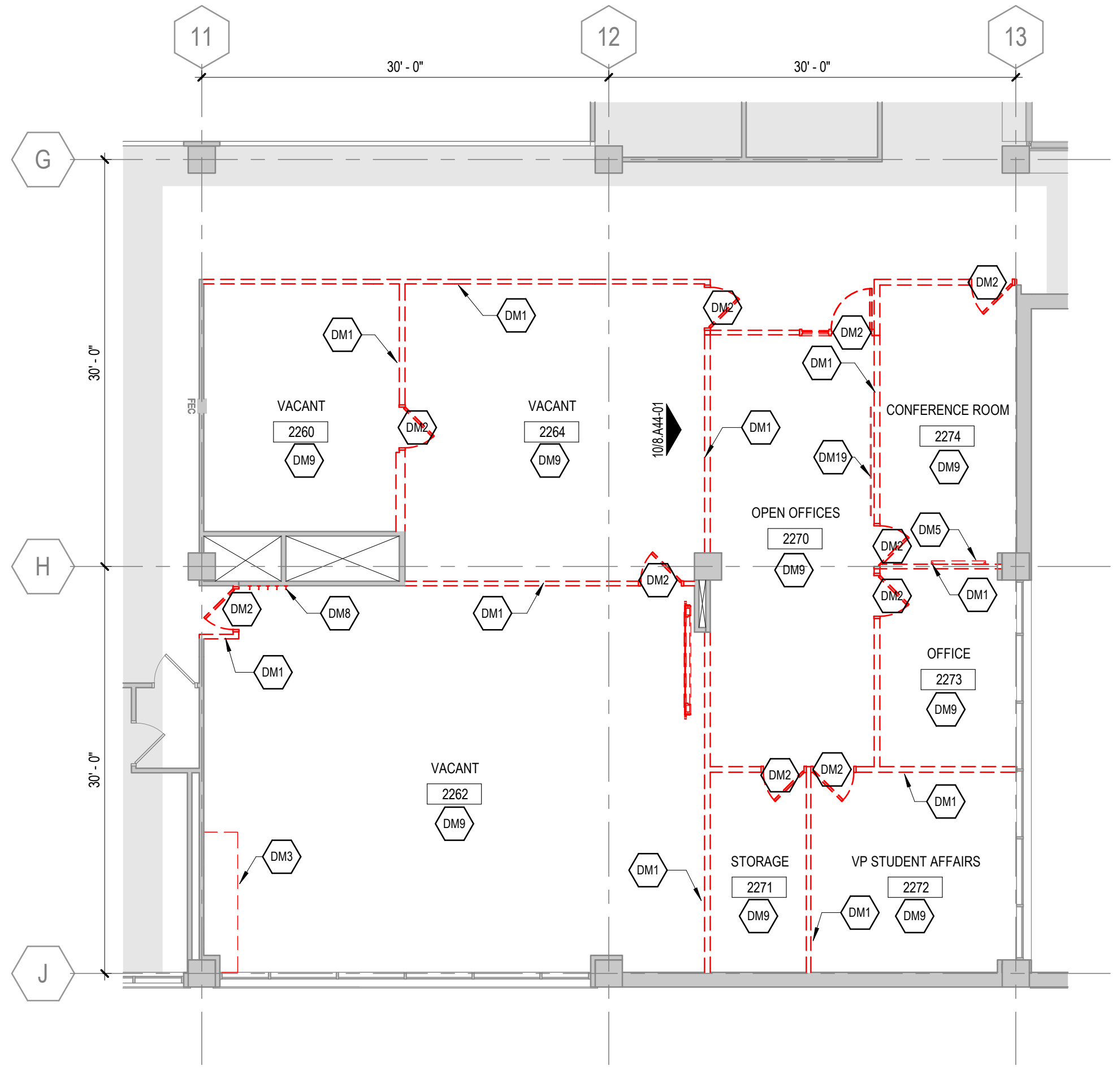


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DATE	ISSUE	DATE
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TITLE		

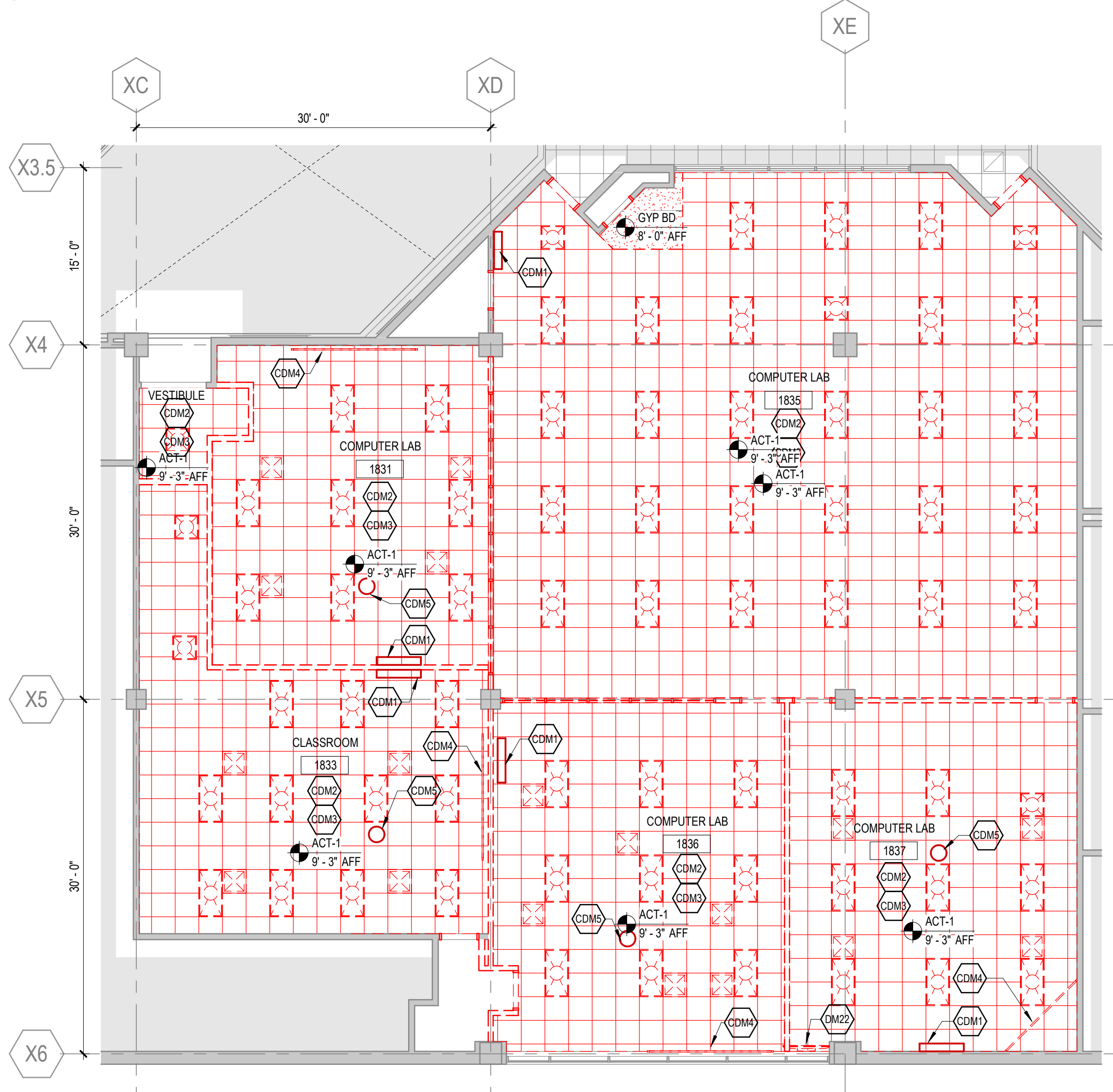
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SHEET NUMBER
8.A04-01



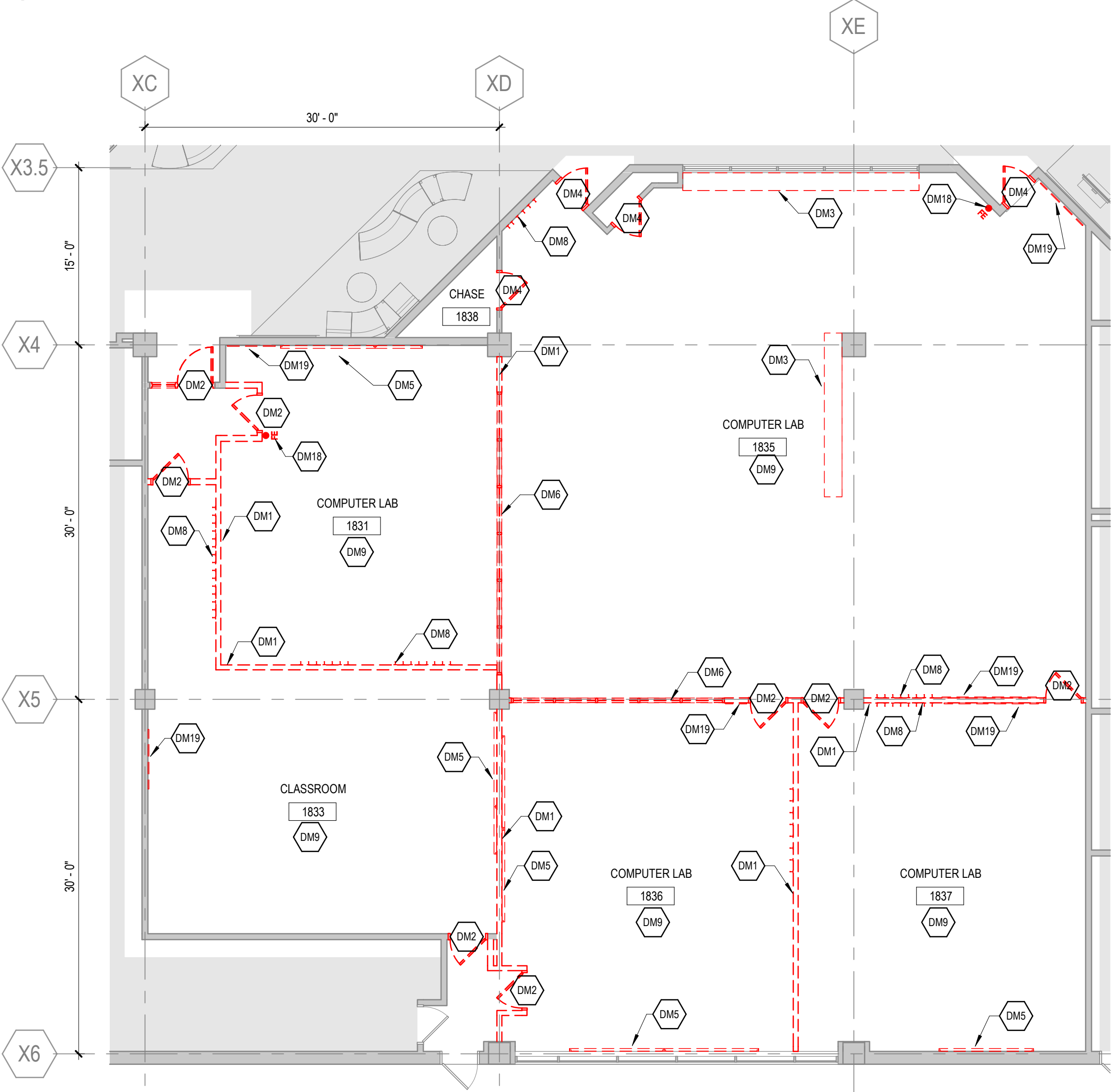
4 TECH HUB DEMOLITION RCP
1/8" = 1'-0"



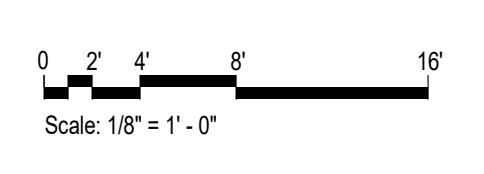
2 TECH HUB DEMOLITION PLAN
1/8" = 1'-0"



3 ADRC & TESTING CENTER DEMOLITION RCP
1/8" = 1'-0"



1 ADRC & TESTING CENTER DEMOLITION PLAN
1/8" = 1'-0"



**INTERIOR FINISH PLAN
GENERAL NOTES**

- REFER TO INTERIOR FINISH LEGEND IN A60 SERIES FOR INFORMATION.
- SEE A50 SERIES FOR CASEWORK INFORMATION.
- TYPICAL FLOOR FINISH TO BE CPT1, UNO.
- TYPICAL WALL FINISH TO BE PNT1, UNO.
- TYPICAL WALL BASE TO BE RB1, UNO.
- ALL FINISHES INSIDE COAT AND STORAGE CLOSETS SHALL BE CONSISTENT WITH THE ADJACENT ROOM FINISHES, UNO. FLOOR COVERINGS SHALL CONTINUE FROM ADJACENT ROOM INTO CLOSETS.
- PROVIDE A FINISH AT ALL AREAS THAT ARE EXPOSED BEHIND MILLWORK, FILE CABINETS, PANELING, ETC. DUE TO REVEALS, JOINTS, END CONDITIONS, ETC.
- SEE ELEVATIONS FOR ADDITIONAL FINISH INFORMATION.

BASE:
9. NEW WALL BASE SHALL BE INSTALLED ON ALL NEW AND EXISTING WALLS AND COLUMNS, UNO.
10. RESILIENT WALL BASE AT ALL CARPETED AREAS SHALL BE STRAIGHT BASE, UNO. RESILIENT WALL BASE AT ALL HARD SURFACE FLOORS SHALL BE COVERED BASE, UNO.

PAINT:
11. PAINT REVEALS AND FILER PANELS TO MATCH ADJACENT FINISHES, UNO.
12. PAINT EXPOSED ELECTRICAL RACEWAYS TO MATCH THE ADJACENT WALL SURFACE.
13. PROVIDE A PRIME PAINT COAT IN UNEXPOSED AREAS COVERED BY MILLWORK, PANELING, AND OTHER FIXED ARCHITECTURAL ELEMENTS UNO.
14. DOORS TO RECEIVE PAINT SHALL BE PAINTED PNT4.
15. HOLLOW METAL FRAMES SHALL BE PAINTED PNT4.
16. VISION LITE FRAMES SHALL BE PAINTED PNT4.

FLOORING:
17. FIRE EXTINGUISHER CABINETS SHALL BE PAINTED TO MATCH ADJACENT WALL, UNO.
18. ACCESS PANELS SHALL BE PAINTED TO MATCH ADJACENT SURFACE.
19. GYPSUM BOARD SOFFITS ABUTTING A WALL SHALL BE PAINTED TO MATCH THE WALL. GYPSUM BOARD SOFFITS NOT ABUTTING A WALL SHALL BE PAINTED TO MATCH ADJACENT GYPSUM BOARD CEILING, IF APPLICABLE. GYPSUM BOARD SOFFITS ADJACENT TO ONLY ACOUSTICAL PANEL CEILINGS SHALL BE PAINTED PNT1.

FLOORING:
20. FLOORING TRANSITIONS AT DOORWAYS SHALL BE ALIGNED WITH THE FACE OF THE FRAME'S STOP FACING THE DOOR.

FLOORING:
20. FLOORING TRANSITIONS AT DOORWAYS SHALL BE ALIGNED WITH THE FACE OF THE FRAME'S STOP FACING THE DOOR.

LEGEND

ROOM FINISH TAG

W - XXX WALL FINISH
B - XXX WALL BASE FINISH
F - XXX FLOOR FINISH

ACCENT FINISHES

CH-1 CH-2 CH-3 CH-4 CH-5 CH-6 CH-7 CH-8 CH-9 CH-10 CH-11 CH-12 CH-13 CH-14 CH-15 CH-16 CH-17 CH-18 CH-19 CH-20 CH-21 CH-22 CH-23 CH-24 CH-25 CH-26 CH-27 CH-28 CH-29 CH-30 CH-31 CH-32 CH-33 CH-34 CH-35 CH-36 CH-37 CH-38 CH-39 CH-40 CH-41 CH-42 CH-43 CH-44 CH-45 CH-46 CH-47 CH-48 CH-49 CH-50 CH-51 CH-52 CH-53 CH-54 CH-55 CH-56 CH-57 CH-58 CH-59 CH-60 CH-61 CH-62 CH-63 CH-64 CH-65 CH-66 CH-67 CH-68 CH-69 CH-70 CH-71 CH-72 CH-73 CH-74 CH-75 CH-76 CH-77 CH-78 CH-79 CH-80 CH-81 CH-82 CH-83 CH-84 CH-85 CH-86 CH-87 CH-88 CH-89 CH-90 CH-91 CH-92 CH-93 CH-94 CH-95 CH-96 CH-97 CH-98 CH-99 CH-100 CH-101 CH-102 CH-103 CH-104 CH-105 CH-106 CH-107 CH-108 CH-109 CH-110 CH-111 CH-112 CH-113 CH-114 CH-115 CH-116 CH-117 CH-118 CH-119 CH-120 CH-121 CH-122 CH-123 CH-124 CH-125 CH-126 CH-127 CH-128 CH-129 CH-130 CH-131 CH-132 CH-133 CH-134 CH-135 CH-136 CH-137 CH-138 CH-139 CH-140 CH-141 CH-142 CH-143 CH-144 CH-145 CH-146 CH-147 CH-148 CH-149 CH-150 CH-151 CH-152 CH-153 CH-154 CH-155 CH-156 CH-157 CH-158 CH-159 CH-160 CH-161 CH-162 CH-163 CH-164 CH-165 CH-166 CH-167 CH-168 CH-169 CH-170 CH-171 CH-172 CH-173 CH-174 CH-175 CH-176 CH-177 CH-178 CH-179 CH-180 CH-181 CH-182 CH-183 CH-184 CH-185 CH-186 CH-187 CH-188 CH-189 CH-190 CH-191 CH-192 CH-193 CH-194 CH-195 CH-196 CH-197 CH-198 CH-199 CH-200 CH-201 CH-202 CH-203 CH-204 CH-205 CH-206 CH-207 CH-208 CH-209 CH-210 CH-211 CH-212 CH-213 CH-214 CH-215 CH-216 CH-217 CH-218 CH-219 CH-220 CH-221 CH-222 CH-223 CH-224 CH-225 CH-226 CH-227 CH-228 CH-229 CH-230 CH-231 CH-232 CH-233 CH-234 CH-235 CH-236 CH-237 CH-238 CH-239 CH-240 CH-241 CH-242 CH-243 CH-244 CH-245 CH-246 CH-247 CH-248 CH-249 CH-250 CH-251 CH-252 CH-253 CH-254 CH-255 CH-256 CH-257 CH-258 CH-259 CH-260 CH-261 CH-262 CH-263 CH-264 CH-265 CH-266 CH-267 CH-268 CH-269 CH-270 CH-271 CH-272 CH-273 CH-274 CH-275 CH-276 CH-277 CH-278 CH-279 CH-280 CH-281 CH-282 CH-283 CH-284 CH-285 CH-286 CH-287 CH-288 CH-289 CH-290 CH-291 CH-292 CH-293 CH-294 CH-295 CH-296 CH-297 CH-298 CH-299 CH-300 CH-301 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**FLOOR PLAN
GENERAL NOTES**

- SEE THE A61 SERIES FOR PARTITION TYPES
- ALL PARTITIONS ARE TYPE A41 UNLESS NOTED OTHERWISE
- DOOR DIMENSIONS ARE TO EDGE OF DOOR LEAF UNLESS NOTED OTHERWISE
- FOR SWINGING DOORS, THE HINGE SIDE OF OF THE DOOR JAMB SHALL BE LOCATED 4" FROM THE ADJACENT PERPENDICULAR WALL, UNLESS NOTED OTHERWISE

FLOOR PLAN LEGEND

NOT IN CONTRACT

EXISTING PARTITION TO REMAIN

NEW PARTITION

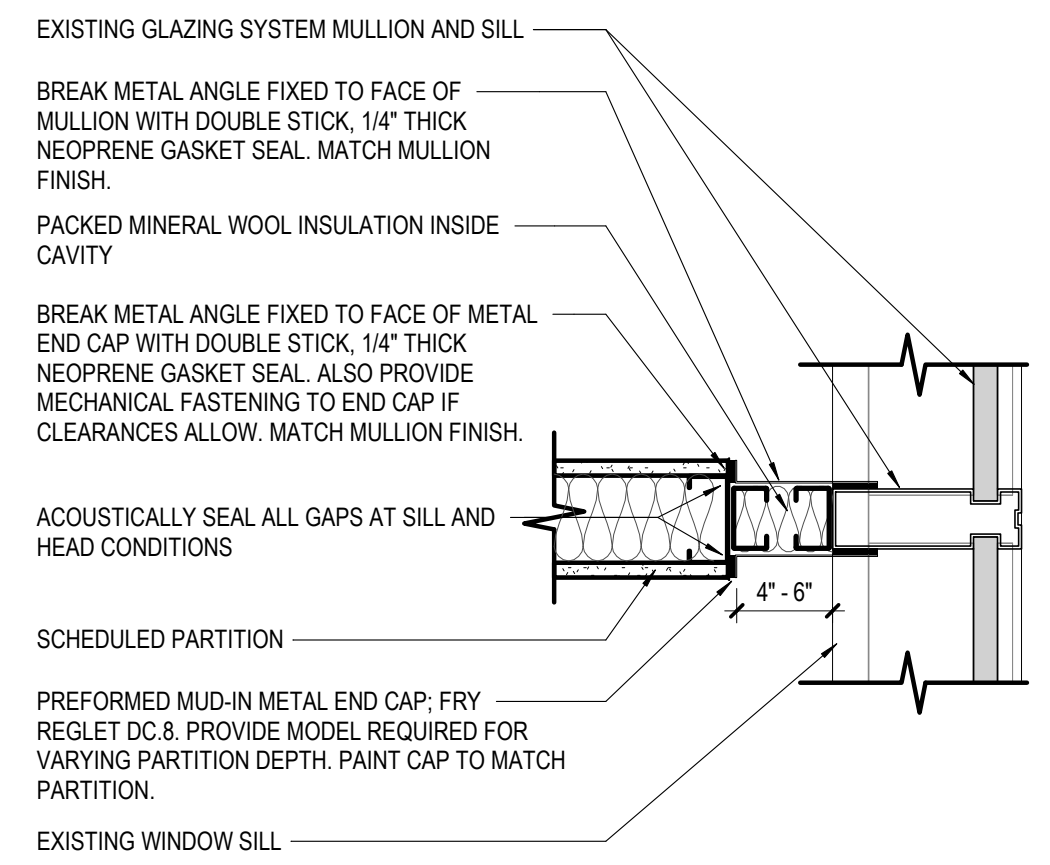
CORNER GUARD

EQUIPMENT

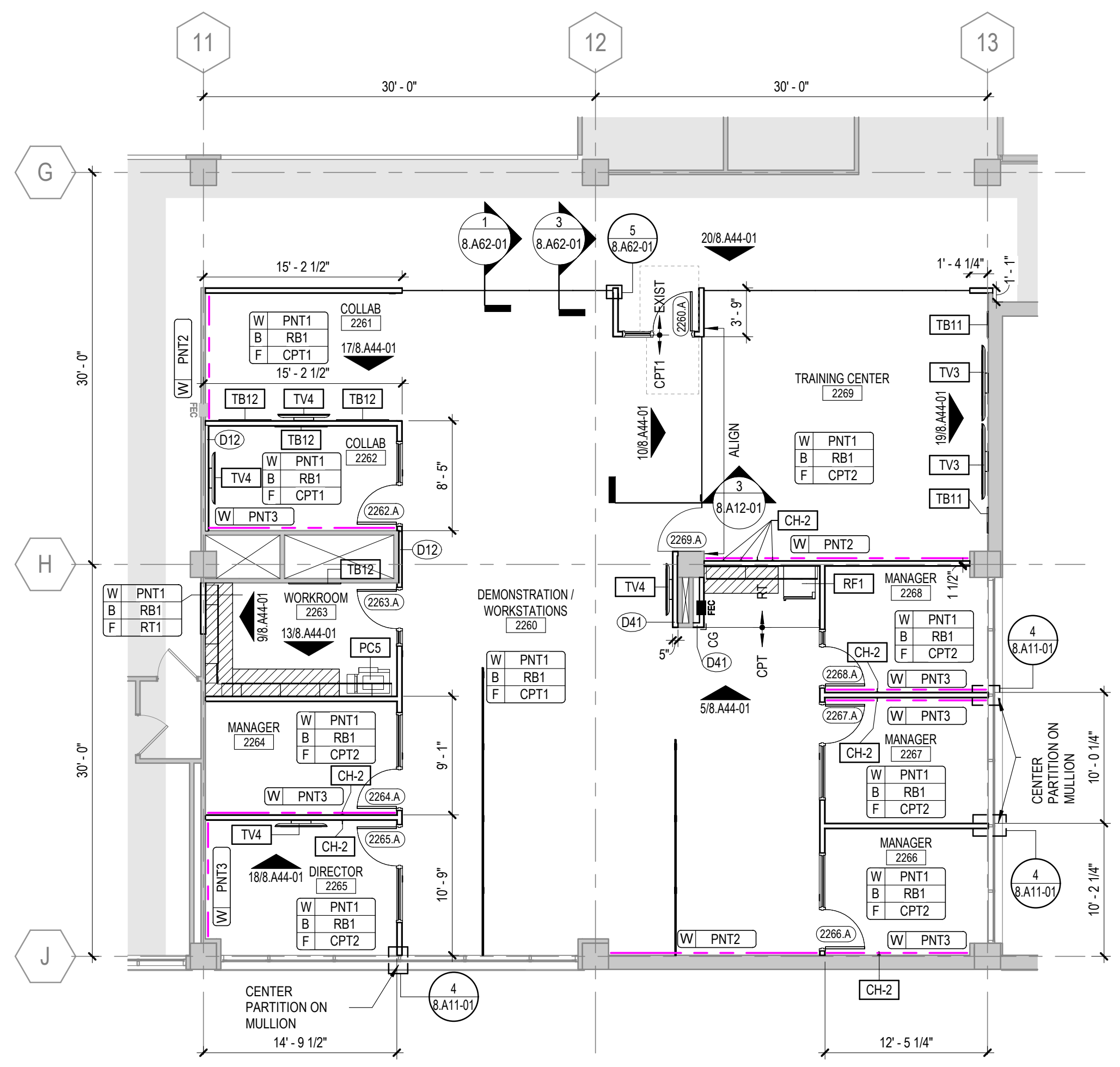
TAG	DESCRIPTION	FURN. /INSTALL	COMMENTS
BM-8	BRILLE MACHINE	OFCI	COORDINATE CABINERY WITH EXISTING EQUIPMENT.
CH-1	COAT HOOK	CFCI	STAINLESS STEEL
CH-2	COAT HOOK	CFCI	STAINLESS STEEL
EQ-4	FIRE EXTINGUISHER CABINET, FULLY RECESSED	CFCI	
FE-13	FIRE EXTINGUISHER CABINET, SEMI-RECESSED	CFCI	
MB-10	MARKERBOARD, 8' WIDE	CFCI	SEE ELEVATIONS AND MOUNTING DIMENSIONS SCHEDULE
MW-2	DRAWER MICROWAVE	CFCI	COORDINATE CABINERY WITH SELECTED MODEL
PCS	PRINTER/COPIER	OFCI	COORDINATE CABINERY WITH SELECTED MODEL
RF-1	FULL HEIGHT REFRIGERATOR AND FREEZER	OFCI	COORDINATE CABINERY WITH SELECTED MODEL
RF-7	UNDER COUNTER REFRIGERATOR	OFCI	COORDINATE CABINERY WITH SELECTED MODEL
TB-11	TACK BOARD, 2' WIDE	CFCI	SEE ELEVATIONS AND MOUNTING DIMENSIONS SCHEDULE
TB-12	TACK BOARD, 4' WIDE	CFCI	SEE ELEVATIONS AND MOUNTING DIMENSIONS SCHEDULE
TV-3	TV SCREEN 81"	OFCI	WALL MOUNTED, CONTRACTOR TO PROVIDE BLOCKING FOR MOUNT, COORDINATE LOCATION WITH OWNER
TV-4	TV SCREEN, 55"	OFCI	WALL MOUNTED, CONTRACTOR TO PROVIDE BLOCKING FOR MOUNT, COORDINATE LOCATION WITH OWNER
TV-9	TV SCREEN, 55" COUNTER TOP	OFCI	COORDINATE LOCATION WITH OWNER

LEGEND

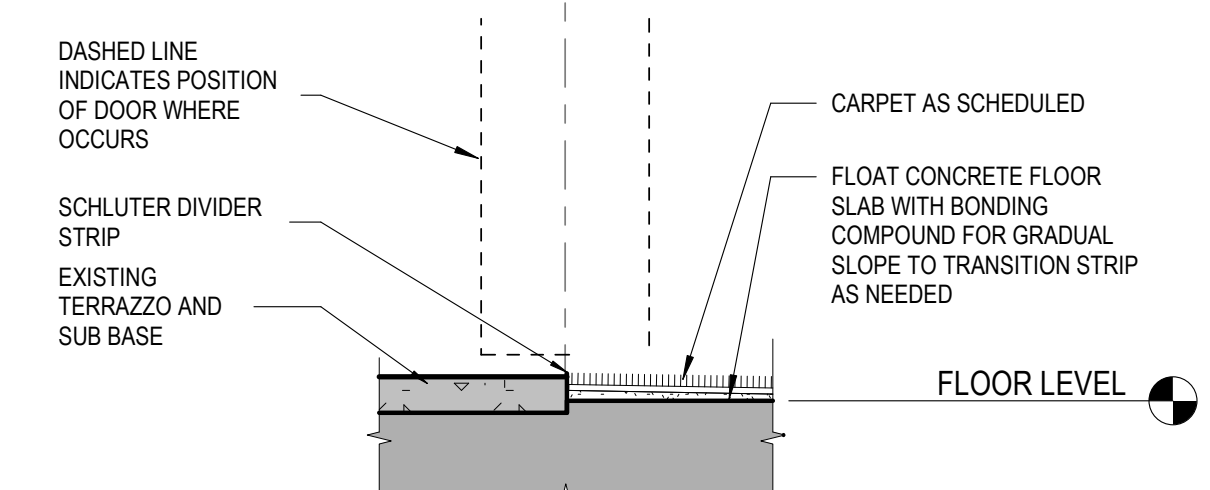
OFCI OWNER FURNISHED, OWNER INSTALLED
OFCI OWNER FURNISHED, CONTRACTOR INSTALLED
CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED



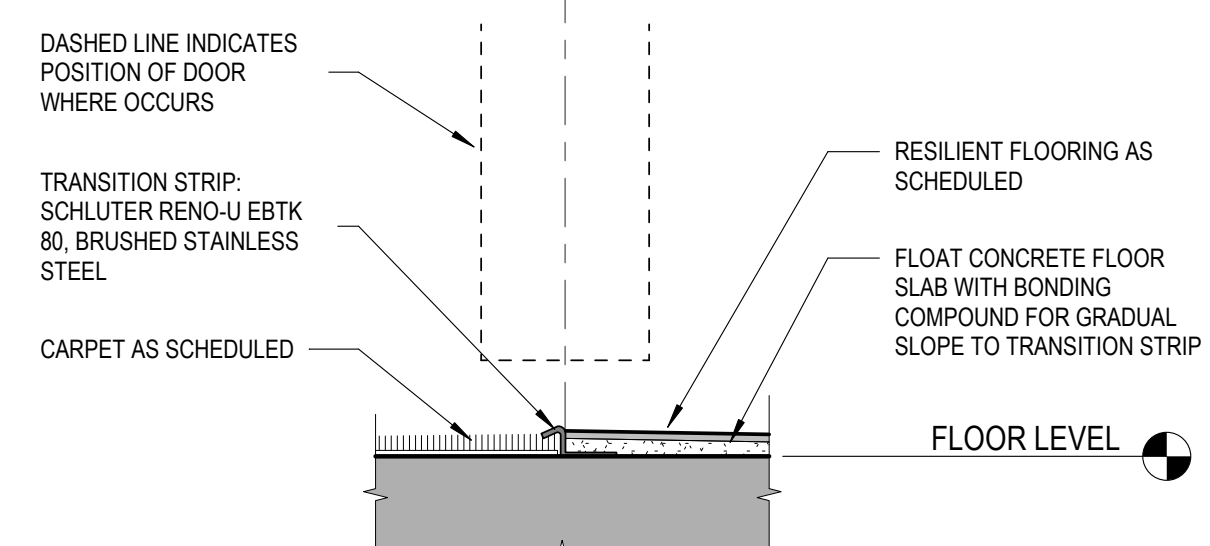
1 WALL AT EXISTING MULLION PLAN DETAIL
SCALE 1 1/2" = 1'-0"



2 TECH HUB FLOOR PLAN
SCALE 1/8" = 1'-0"



FLOORING TRANSITION CARPET - EXISTING TERRAZZO

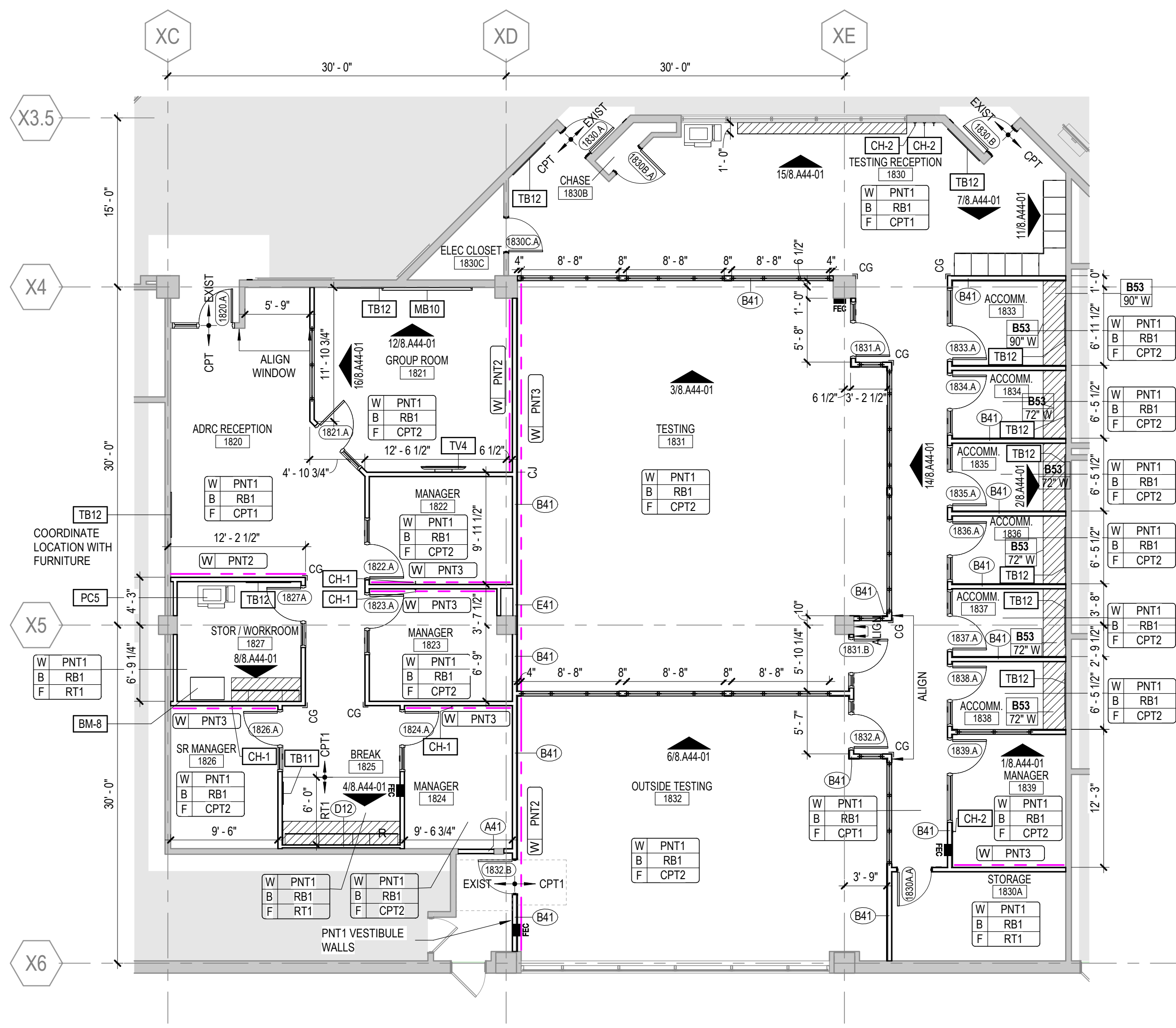


FLOORING TRANSITION CARPET - RESILIENT

FLOORING TRANSITION NOTES:

- METAL FLOORING TRANSITIONS SHALL BE CLEAR ANODIZED ALUMINUM OR SATIN STAINLESS FINISH.
- COORDINATE HEIGHT OF FLOORING TRANSITION PRODUCTS WITH THICKNESSES OF CORRESPONDING FLOORING ASSEMBLIES.

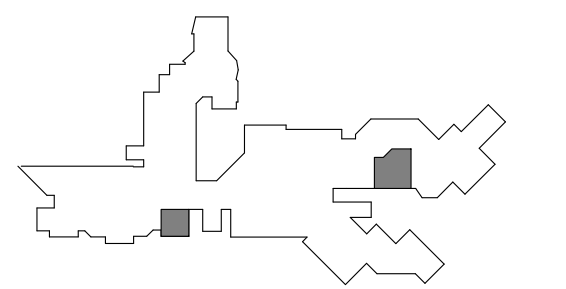
3 FLOOR FINISH TRANSITIONS
SCALE 6" = 1'-0"



1 ADRC & TESTING CENTER FLOOR PLAN
SCALE 1/8" = 1'-0"

ISSUED FOR BID 23 SEPTEMBER 2024

KEY PLAN



ISSUE CHART

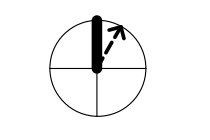
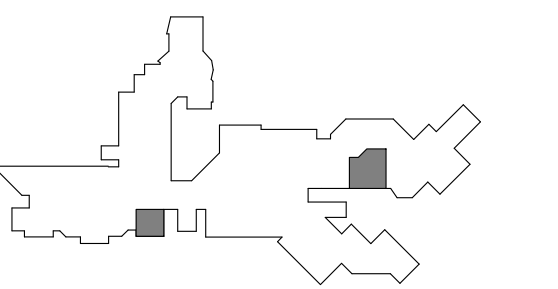
NO.	ISSUED FOR BID	DATE
1	ISSUED FOR BID	23 SEP 24
2	ISSUE	DATE

Job Number 021074.000
TITLE

FLOOR PLANS & FLOOR DETAILS

SHEET NUMBER

8.A11-01



ISSUED FOR BID	23 SEP 24
ISSUE	DATE
Job Number	021074.000
TITLE	

REFLECTED CEILING PLAN GENERAL NOTES

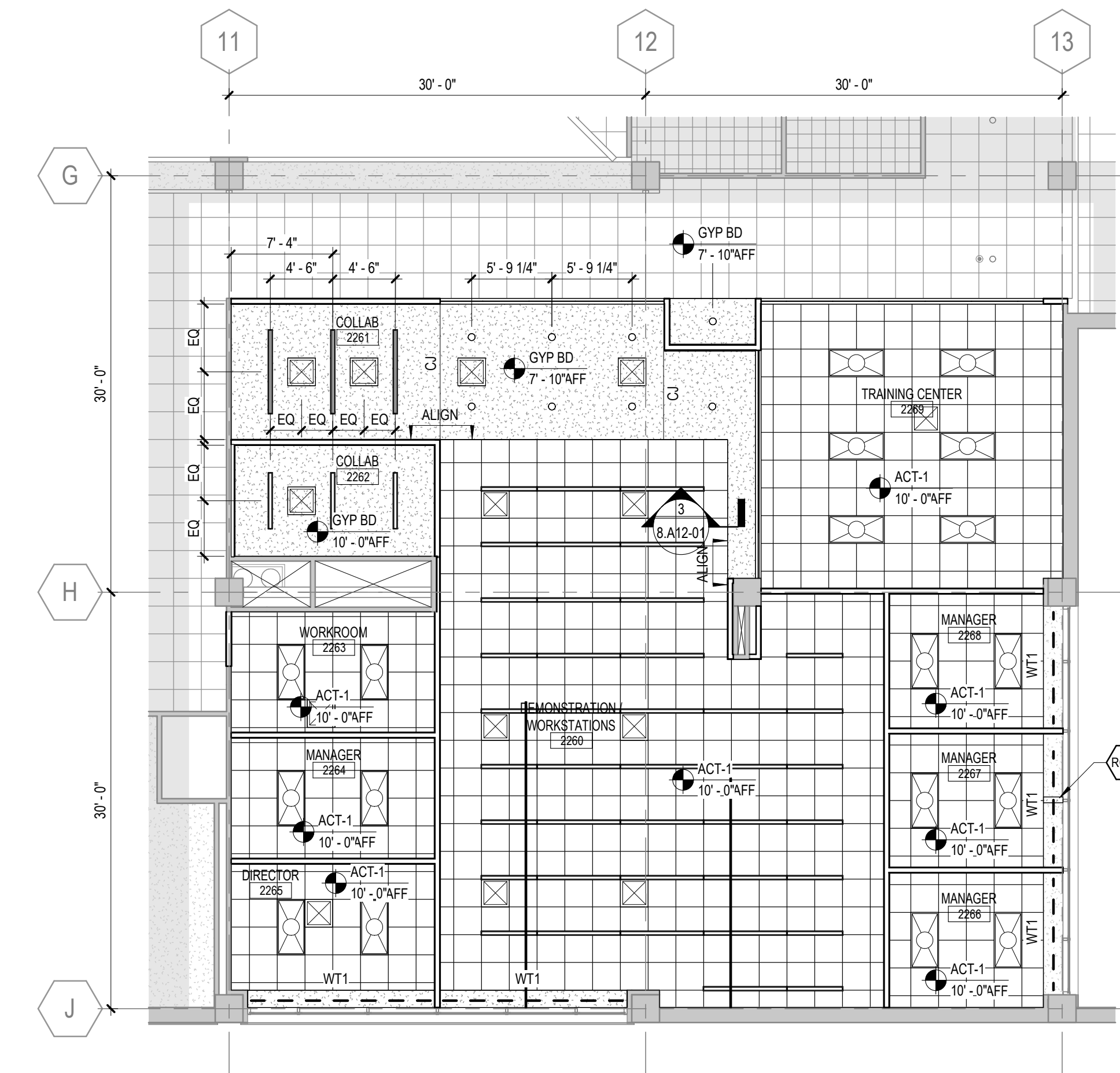
- ALL CEILING HEIGHTS TO BE 9'-3" UNO.
- ALL CEILINGS TO BE TYPE ACT-1, UNO.
- GYPSUM BOARD CEILINGS AND SOFFITS TO BE PAINTED PNT1, UNO.
- OPEN-TO-STRUCTURE AREAS (NO CEILING), INCLUDING OVERHEAD MEPP SYSTEMS, SHALL BE PAINTED PNT1, UNO.
- CENTER FIXTURES, DEVICES AND OTHER ELEMENTS IN ACOUSTIC PANEL(S) IN BOTH DIRECTIONS, UNLESS OTHERWISE NOTED.
- LIGHTING FIXTURES ARE DIMENSIONED TO CENTER OF FIXTURE, UNLESS NOTED OTHERWISE.
- LAY DIRECTIONAL PATTERN CEILING PANEL OR TILE ONE WAY WITH PATTERN AS INDICATED BY ARCHITECT UNLESS OTHERWISE NOTED.
- LOCATE ACCESS PANELS AS INDICATED ON THE DRAWINGS. FOR ACCESS PANELS NOT SHOWN BUT REQUIRED BY PROVISIONS OF THE CONTRACT DOCUMENTS, LOCATE IN ACCORDANCE WITH APPLICABLE CODES. FIELD VERIFY LOCATION OF ACCESS PANELS, AND MARK ON SLAB FOR ARCHITECT'S REVIEW. ENSURE ALL ABOVE-CEILING MEPP DEVICES WHICH MAY REQUIRE SERVICE OR MAINTENANCE ARE ACCESSIBLE.
- ALL VISIBLE SURFACES, DEVICES AND EQUIPMENT INSIDE DUCTWORK OR SUPPLY/RETURN REGISTERS SHALL BE PAINTED NON-SPECULAR BLACK.
- CEILING SUPPORT SYSTEMS ARE NOT DESIGNED OR INTENDED TO SUPPORT THE WEIGHT OF ADDITIONAL EQUIPMENT, CABLE, CONDUIT, LIGHTS, MECHANICAL EQUIPMENT OR OTHER CONSTRUCTION. SUPPORT THESE ITEMS INDEPENDENTLY FROM THE STRUCTURE ABOVE.
- DO NOT HANG (SUPPORT) ANY ITEMS FROM METAL ROOF DECK.

LEGEND

- NOT IN CONTRACT
- GYPSUM BOARD CEILING / SOFFIT
- ACOUSTICAL PANEL CEILING
- CEILING MATERIAL CODE (REFER TO FINISH SCHEDULES)
- CEILING HEIGHT
- WT1 WINDOW TREATMENT - REFER TO FINISH SCHEDULE
- CJ GYPSUM BOARD CONTROL JOINT

REFLECTED CEILING PLAN KEYNOTES

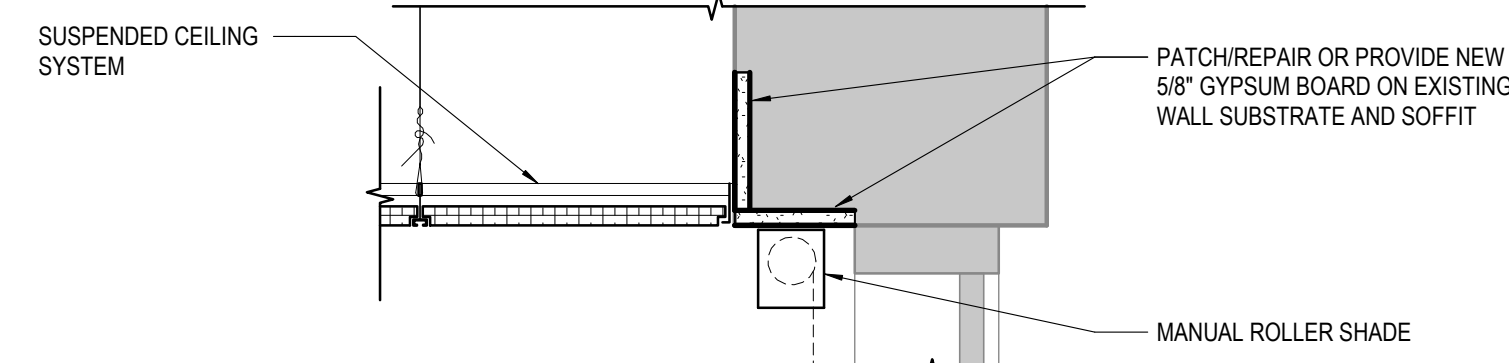
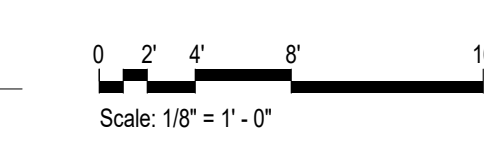
- <<< Indicates Sheet Keynote on Plan
- RCP1 PATCH SOFFIT AT LOCATION OF REMOVED SOFFIT; PATCH TO MATCH EXISTING ADJACENT



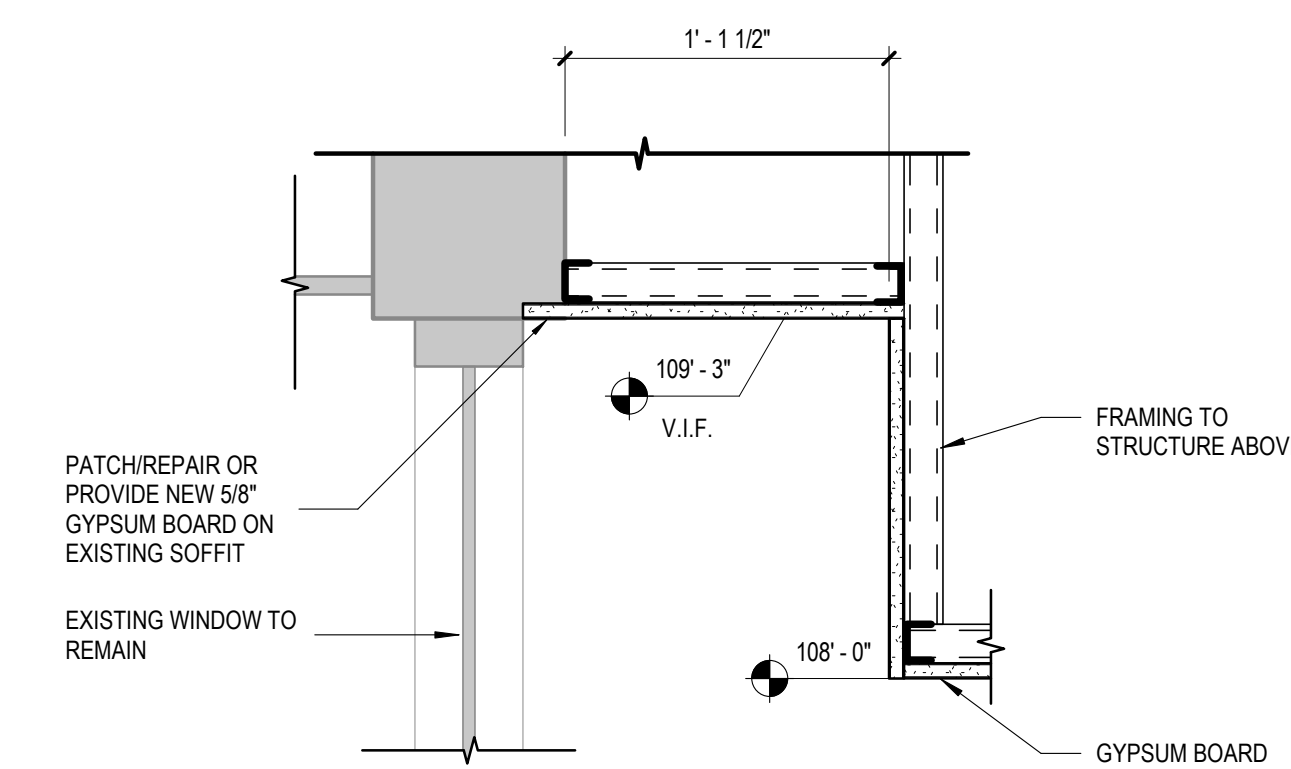
2 TECH HUB REFLECTED CEILING PLAN
1/8" = 1'-0"



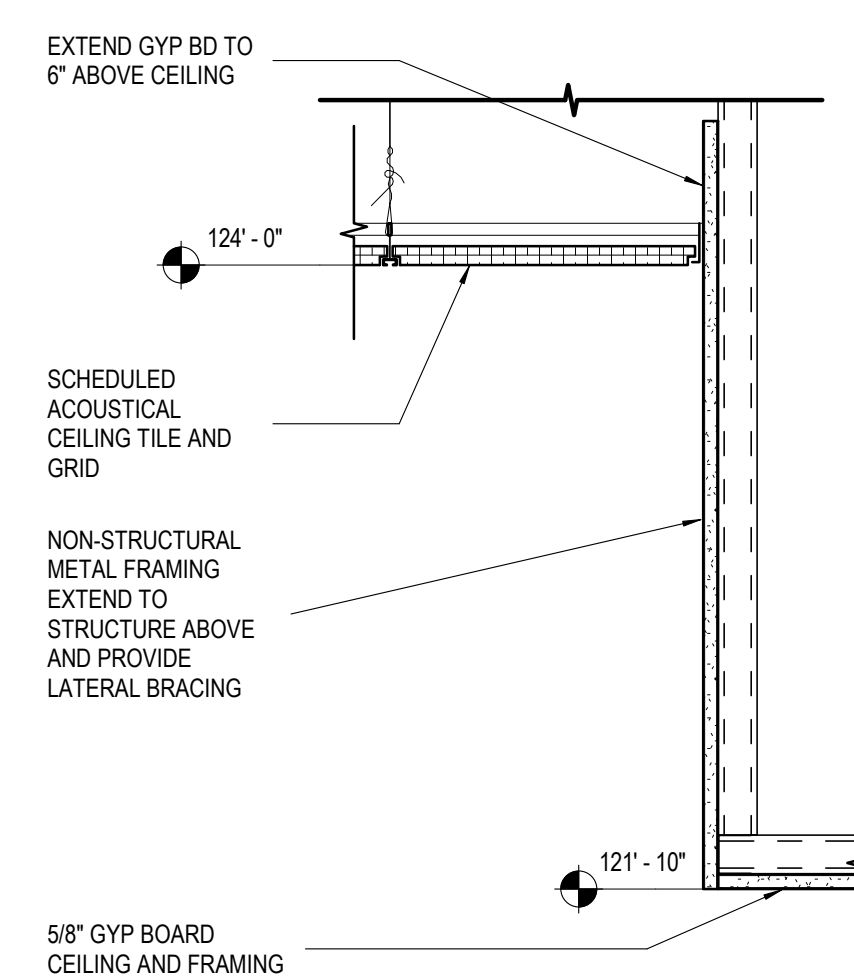
1 ADRC & TESTING CENTER REFLECTED CEILING PLAN
1/8" = 1'-0"



5 SECTION - NEW CEILING @ EXT. WALL
SCALE 1 1/2" = 1'-0"



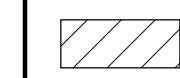
4 CEILING TRANSITION DETAIL
SCALE 1 1/2" = 1'-0"

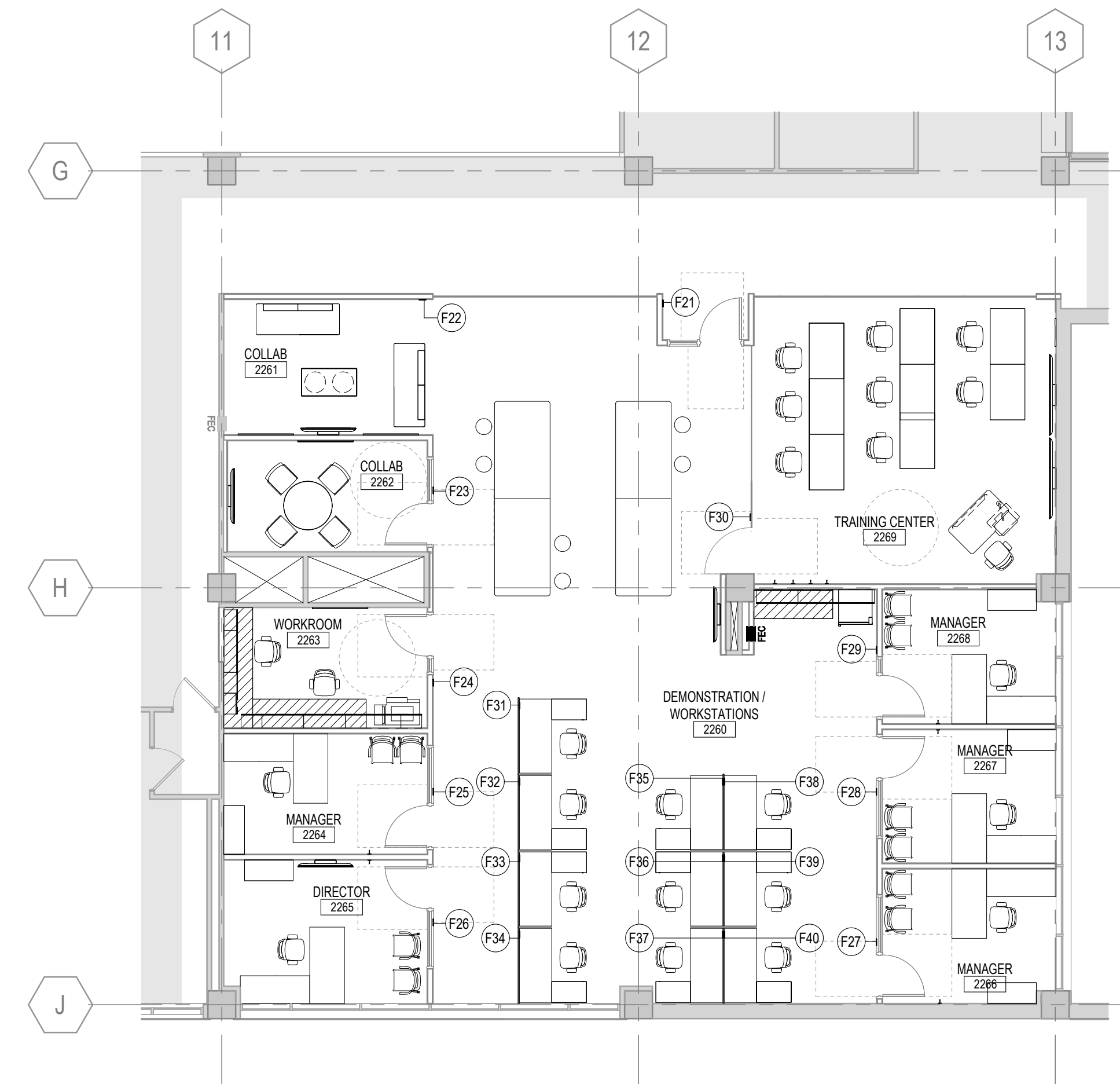


3 CEILING TRANSITION DETAIL
SCALE 1 1/2" = 1'-0"

**FURNITURE PLAN
GENERAL NOTES FOR BID**

- FURNITURE SHOWN FOR REFERENCE ONLY.
- FURNITURE DEALER TO MAINTAIN REQUIRED CLEARANCES AT ALL EGRESS PATHS. FIELD VERIFICATION REQUIRED FOR FINAL LAYOUTS PRIOR TO INSTALLATION.
- COORDINATE EXACT LOCATION AND LAYOUT OF FURNITURE WITH ADJACENT CONSTRUCTION.
- FURNITURE INSTALLER TO PROVIDE LAYOUT OF WORKSTATIONS FOR REVIEW BY ARCHITECT AND GENERAL CONTRACTOR.
- FURNITURE INSTALLER/DEALER SHALL COORDINATE LOCATION OF UTILITY CONNECTIONS FOR SYSTEMS FURNITURE, PRIVATE OFFICE FURNITURE, AND CONFERENCE TABLES WITH GENERAL CONTRACTOR. THESE LOCATIONS ARE TO BE SHOWN ON THE FURNITURE INSTALLATION DRAWINGS.
- FURNITURE INSTALLER/DEALER SHALL ENSURE THERE ARE NO CONFLICTS BETWEEN FURNITURE BASES/SUPPORTS AND WALL/FLOOR UTILITY FEEDS.
- FURNITURE INSTALLATION DRAWINGS SHALL INDICATE, WITH DIMENSIONS, OPENINGS OR MEANS OF ACCESSING WALL UTILITIES TO BE OBTAINED OR BLOCKED BY FURNITURE.

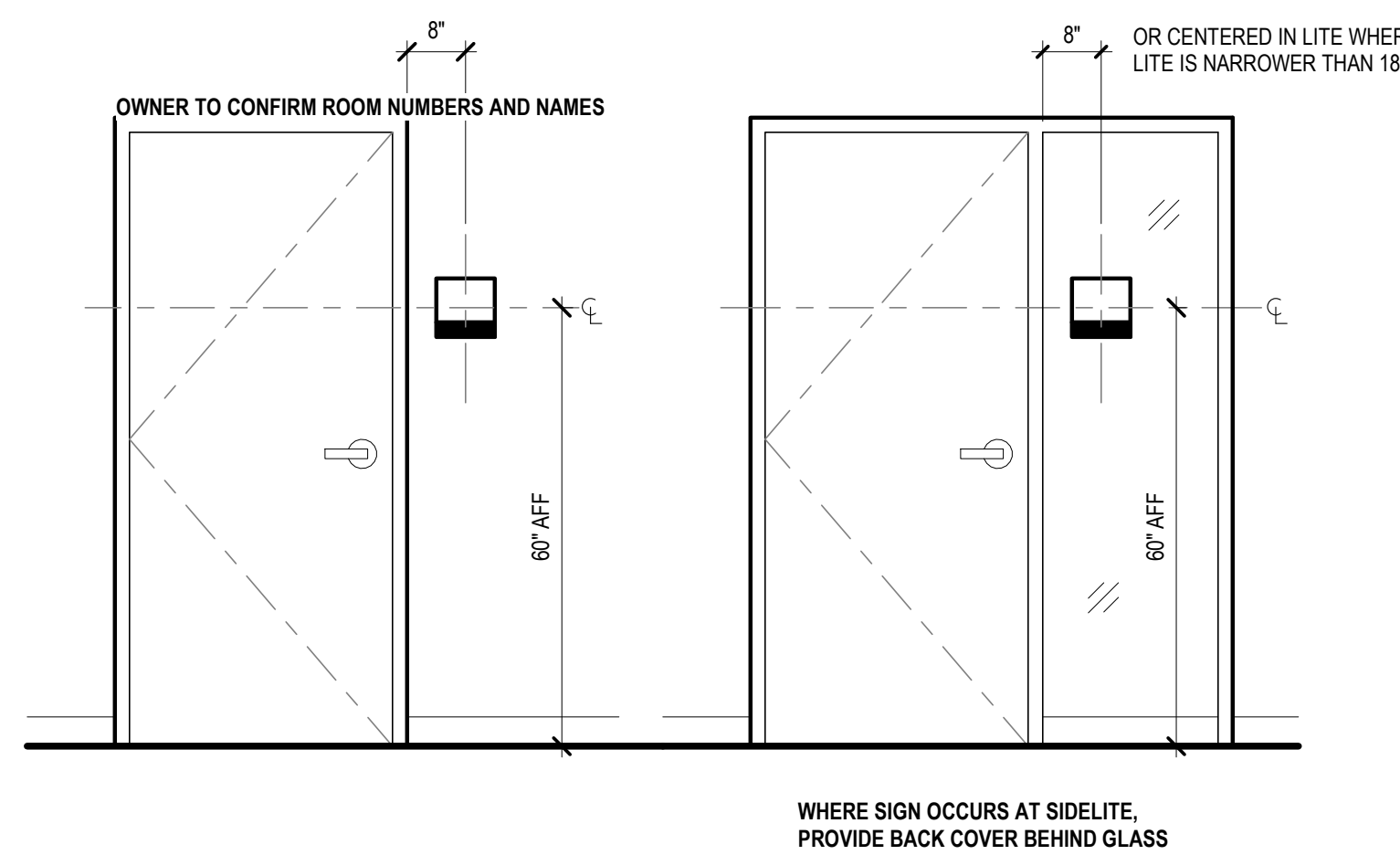
 CASEWORK, REFER TO INTERIOR WALL ELEVATIONS AND CASEWORK DETAILS



2 TECH HUB FURNITURE & SIGNAGE PLAN

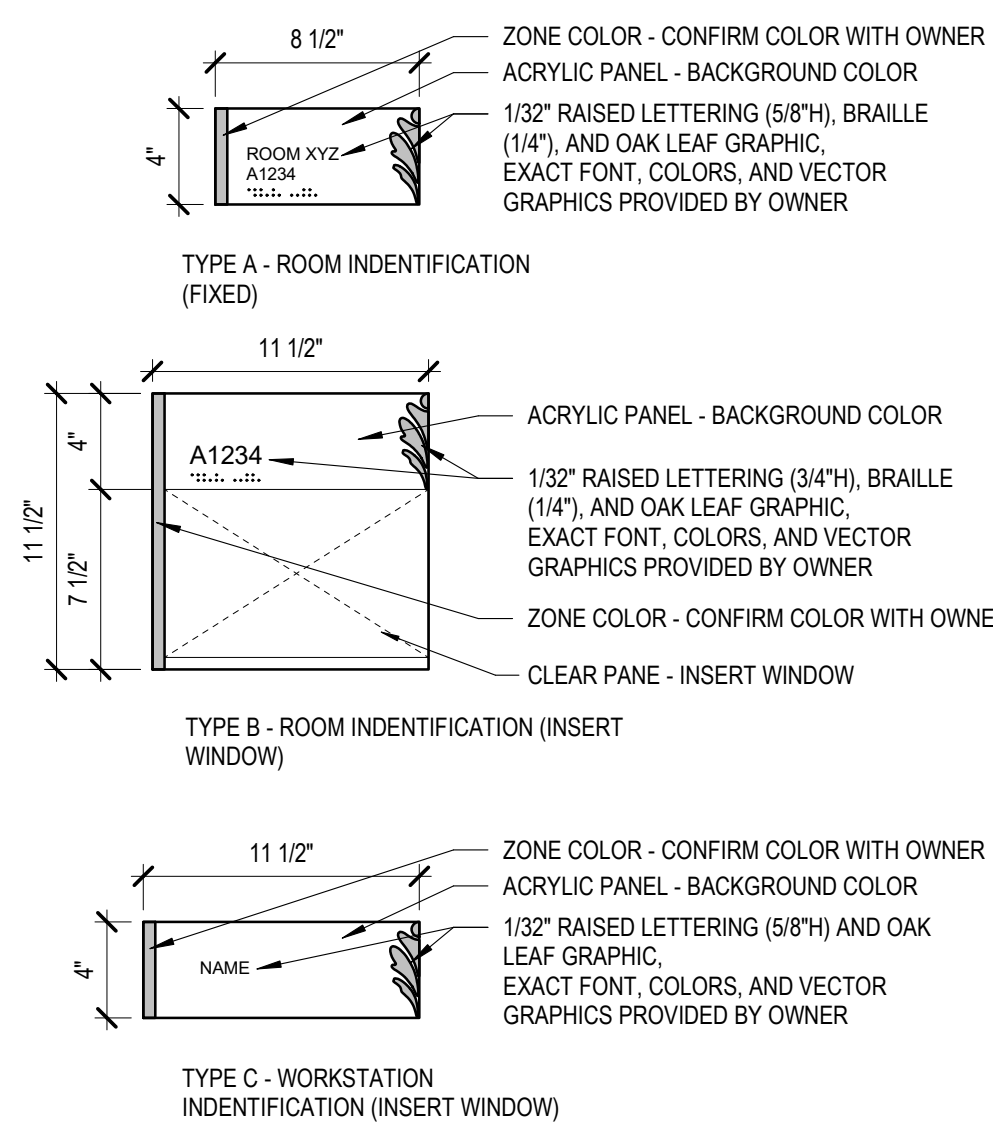
1/8" = 1'-0"
FURNITURE FOR REFERENCE ONLY; REFER TO FURNITURE PACKAGE

SIGNAGE SCHEDULE			
TAG	TYPE	NUMBER	TITLE ON SIGNAGE
F1	A	1820	ACCESS AND DISABILITY RESOURCE CENTER
F2	A	1821	GROUP ROOM
F3	B	1822	(WINDOW INSERT)
F4	B	1823	(WINDOW INSERT)
F5	B	1824	(WINDOW INSERT)
F6	B	1825	(WINDOW INSERT)
F7	A	1827	WORK ROOM
F8	A	1830	TESTING CENTER
F9	A	1830	TESTING CENTER
F10	A	1830A	STORE ROOM
F11	A	1831	TESTING ROOM
F12	A	1831	TESTING ROOM
F13	A	1832	TESTING ROOM
F14	A	1833	ACCOMMODATION TESTING
F15	A	1834	ACCOMMODATION TESTING
F16	A	1835	ACCOMMODATION TESTING
F17	A	1836	ACCOMMODATION TESTING
F18	A	1837	ACCOMMODATION TESTING
F19	A	1838	ACCOMMODATION TESTING
F20	B	1839	(WINDOW INSERT)
F21	A	2260	TECHNOLOGY HUB
F22	A	2261	COLLABORATION SPACE
F23	A	2262	COLLABORATION SPACE
F24	A	2263	WORKROOM
F25	B	2264	(WINDOW INSERT)
F26	B	2265	(WINDOW INSERT)
F27	B	2266	(WINDOW INSERT)
F28	B	2267	(WINDOW INSERT)
F29	B	2268	(WINDOW INSERT)
F30	A	2269	TRAINING CENTER
F31	C	2263	(WORKSTATION INSERT)
F32	C	2263	(WORKSTATION INSERT)
F33	C	2263	(WORKSTATION INSERT)
F34	C	2263	(WORKSTATION INSERT)
F35	C	2263	(WORKSTATION INSERT)
F36	C	2263	(WORKSTATION INSERT)
F37	C	2263	(WORKSTATION INSERT)
F38	C	2263	(WORKSTATION INSERT)
F39	C	2263	(WORKSTATION INSERT)
F40	C	2263	(WORKSTATION INSERT)



4 SIGN LOCATIONS

1/2" = 1'-0"



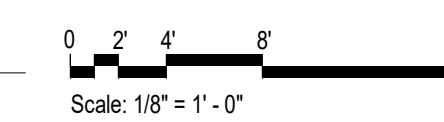
3 SIGNAGE GRAPHICS

SCALE 1/2" = 1'-0"



1 ADRC & TESTING CENTER FURNITURE & SIGNAGE PLAN

1/8" = 1'-0"
FURNITURE FOR REFERENCE ONLY; REFER TO FURNITURE PACKAGE



PROJECT

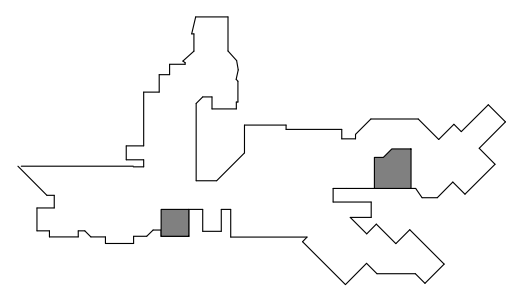
**ADJACENCIES
RENOVATIONS
PHASE 1**

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016

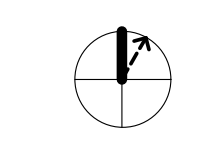


ISSUED FOR BID 23 SEPTEMBER 2024

KEY PLAN



ISSUE CHART



1	ISSUED FOR BID	23 SEP 24
2	ISSUE	DATE
Job Number	021074.000	TITLE

**FURNITURE & SIGNAGE
PLANS**

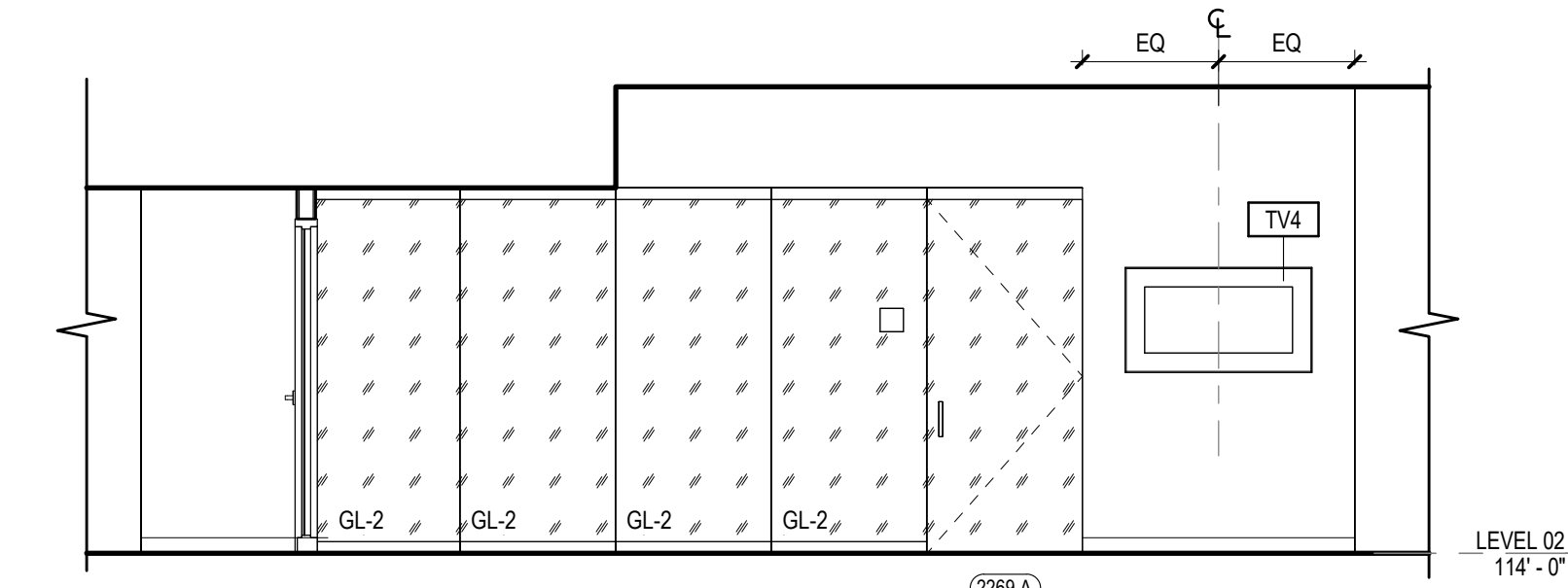
SHEET NUMBER

8.A15-01

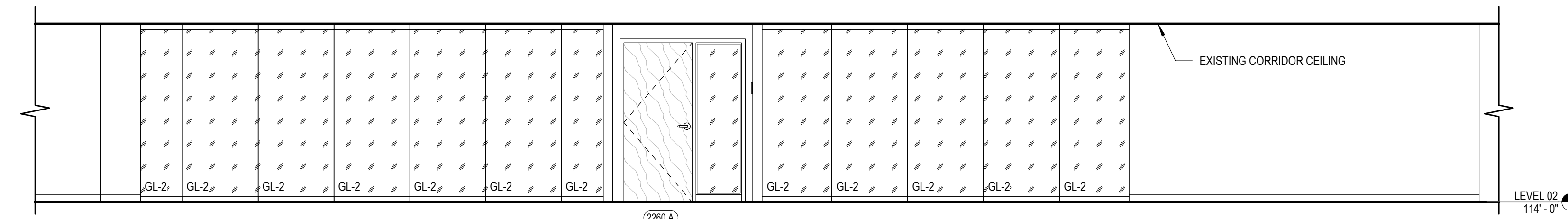
**INTERIOR ELEVATION
GENERAL NOTES**

- SEE ELECTRICAL FOR ELECTRICAL OUTLET, DATA OUTLET AND JUNCTION BOX SPECIFICATIONS. OUTLETS ARE SHOWN HERE FOR PLACEMENT COORDINATION ONLY.
- REFER TO 8.A50-00 FOR CASEWORK INFORMATION.
- REFER TO 8.A00-01 FOR MOUNTING HEIGHTS.

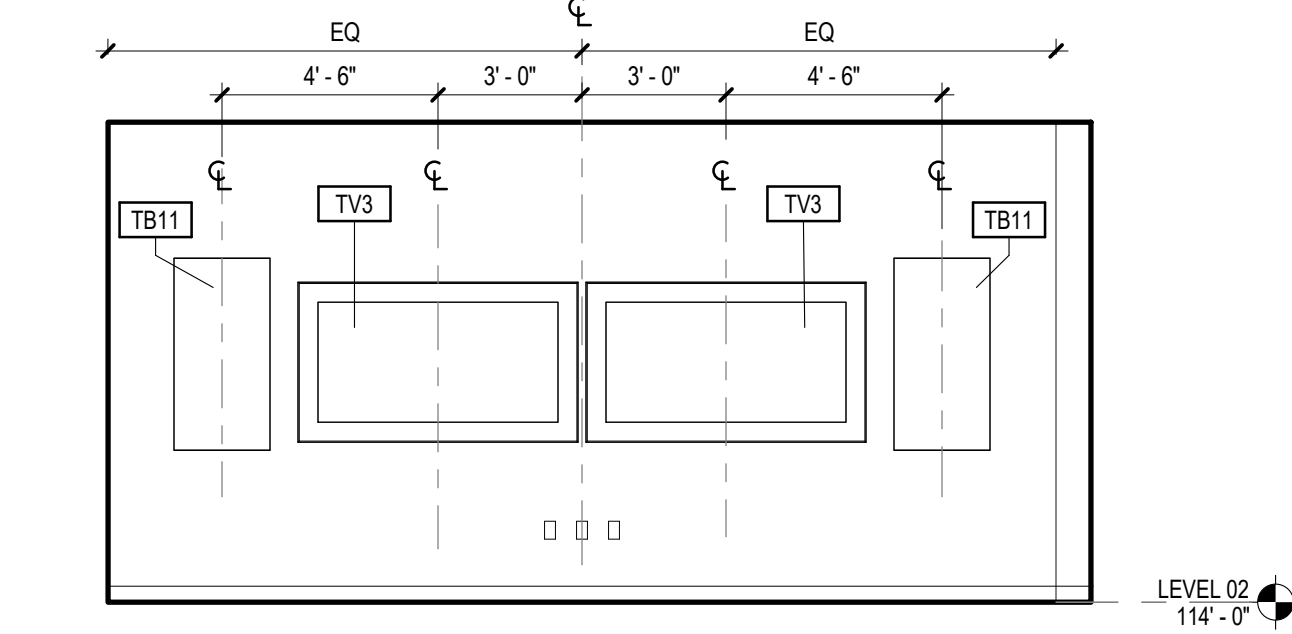
- TAT** EQUIPMENT TAG. REFER TO 8.A11-01 FOR LEGEND AND 8.A00-01 FOR MOUNTING HEIGHTS.
- WXX
XX" W** CASEWORK TAG
- GL-1** GLAZING TAG. REFER TO 8.A62-01



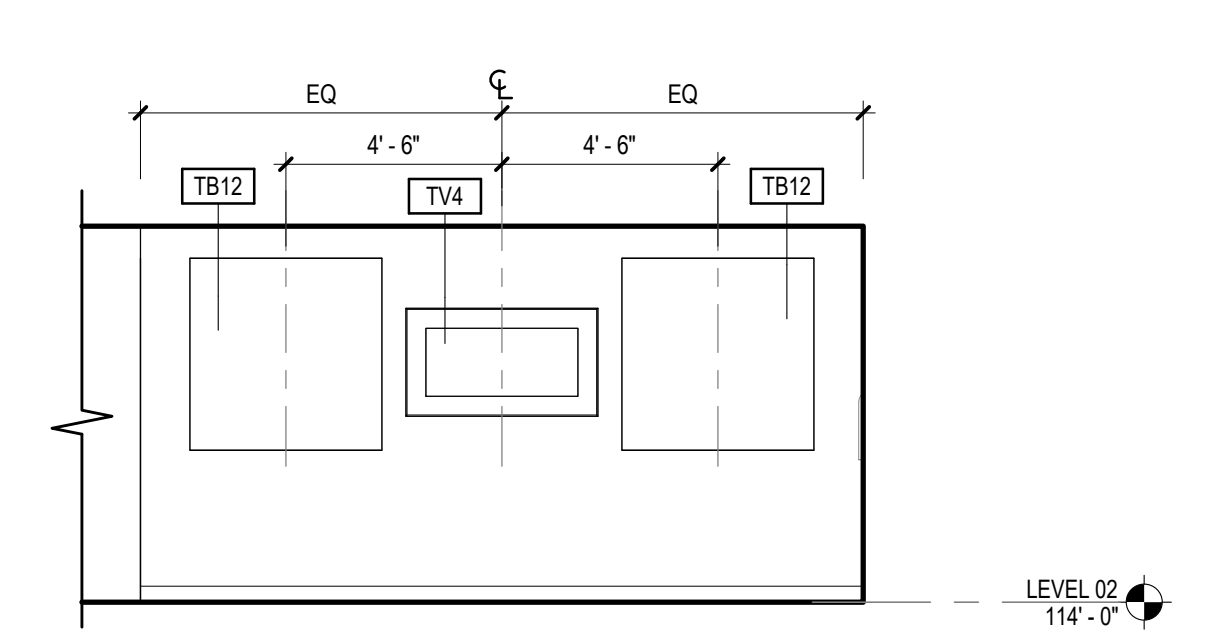
10 DEMONSTRATION EAST
SCALE 1/4" = 1'-0"



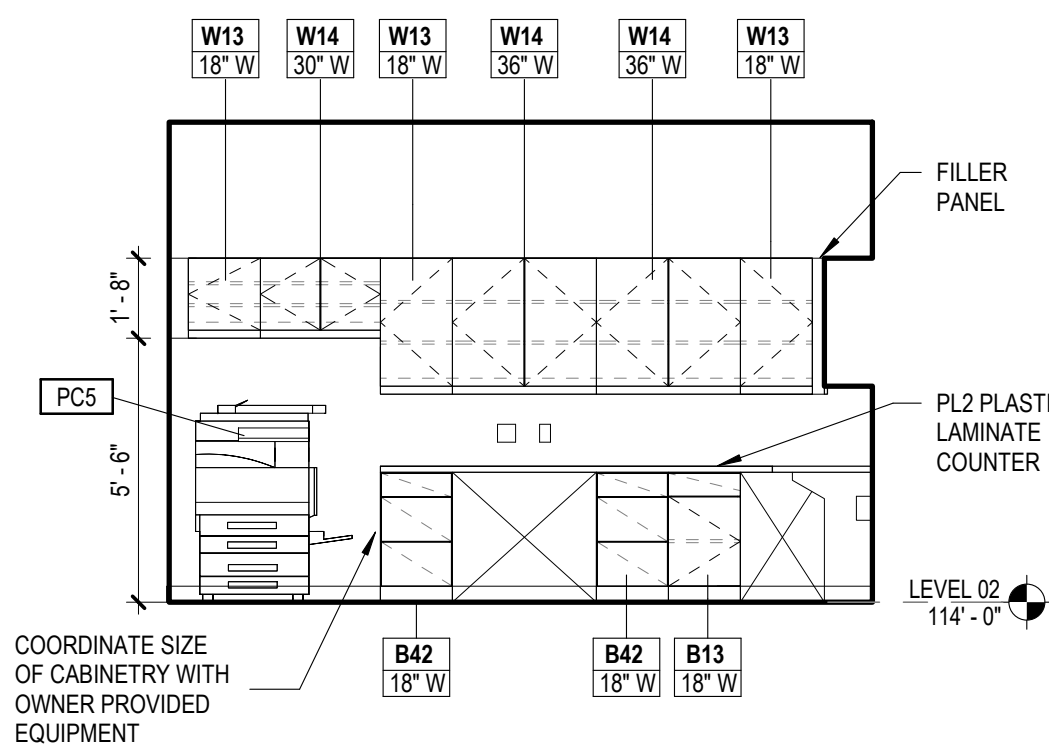
20 TECH HUB SUITE OUTSIDE NORTH WALL
SCALE 1/4" = 1'-0"



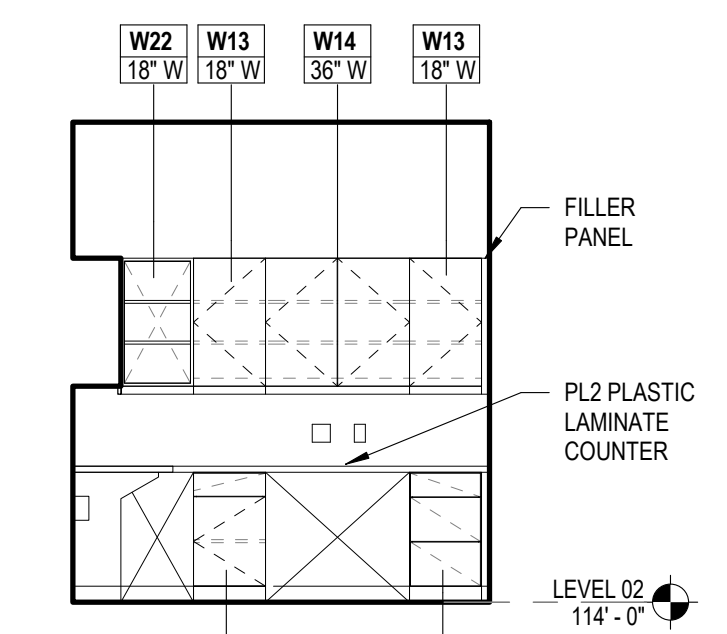
19 TRAINING CENTER EAST
SCALE 1/4" = 1'-0"



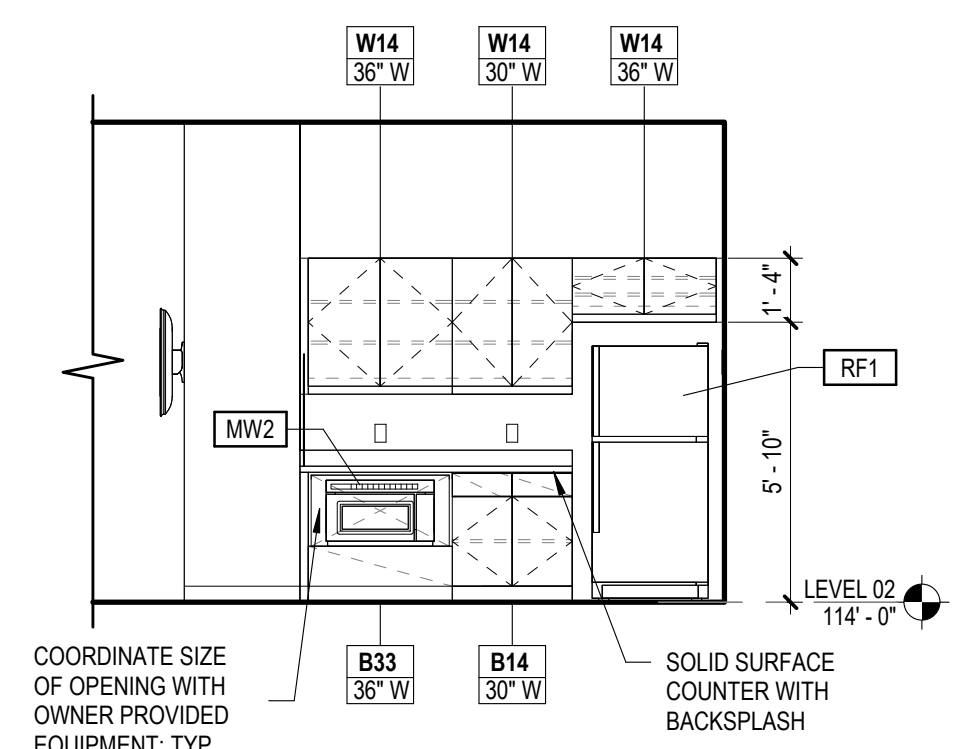
17 COLLABORATION SOUTH
SCALE 1/4" = 1'-0"



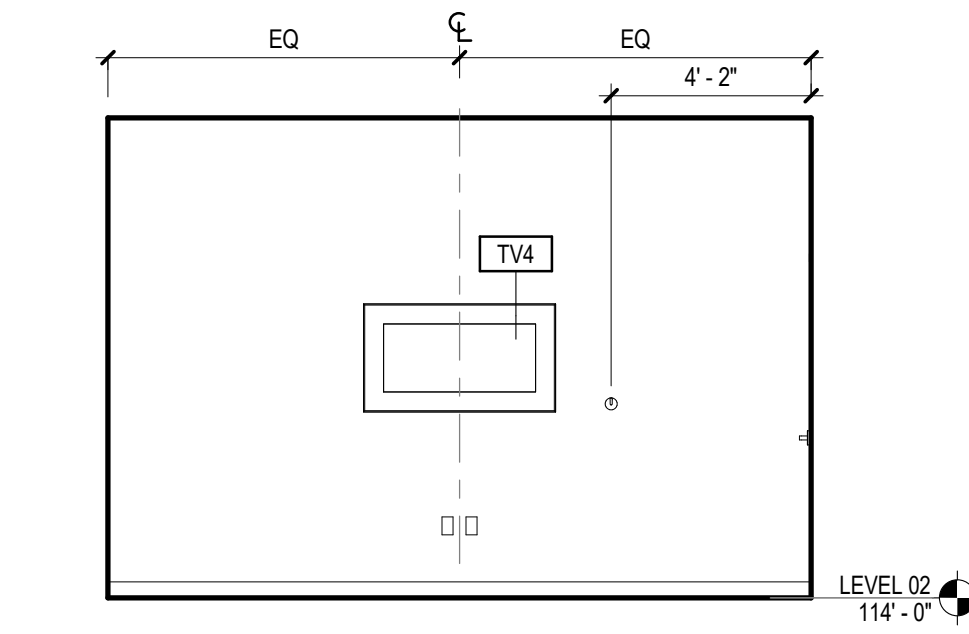
13 WORKROOM SOUTH
SCALE 1/4" = 1'-0"



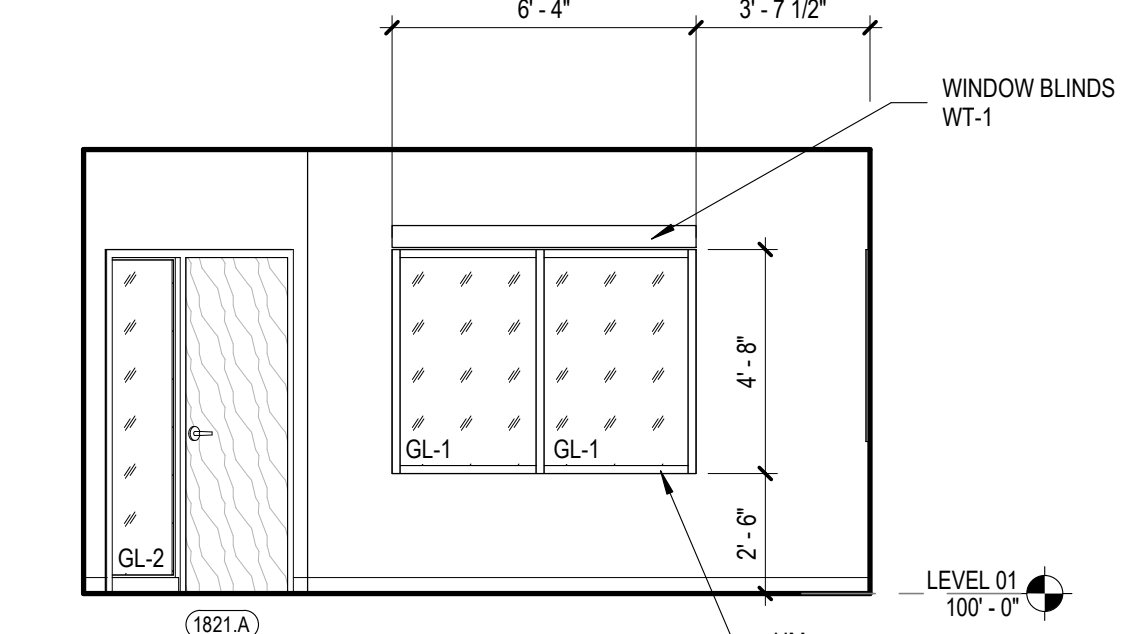
9 WORKROOM WEST
SCALE 1/4" = 1'-0"



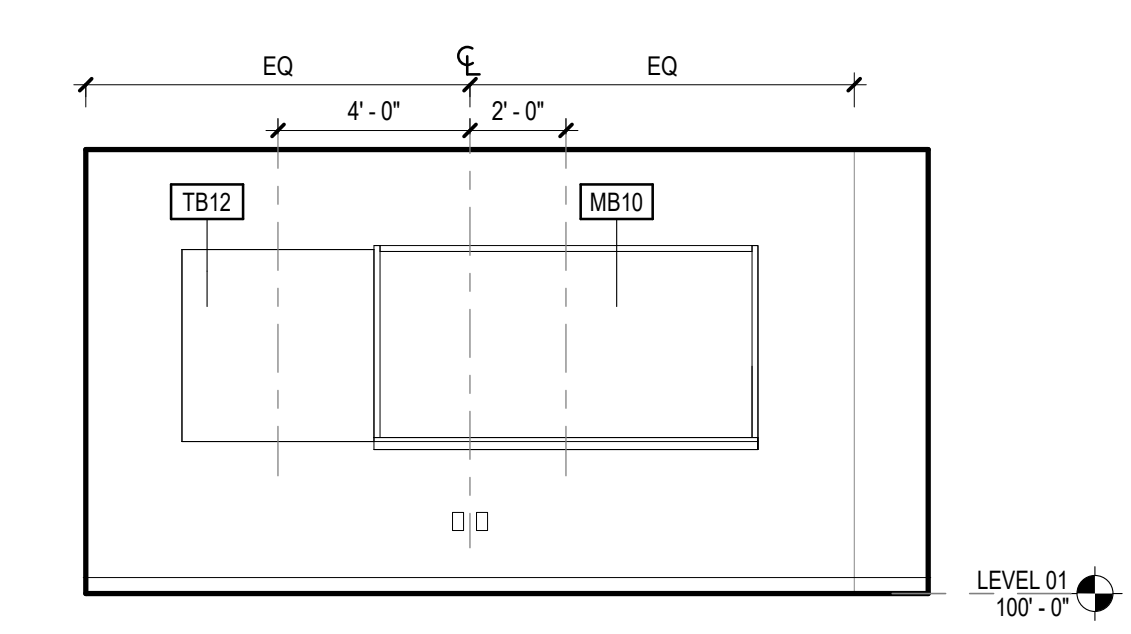
5 KITCHENETTE NORTH
SCALE 1/4" = 1'-0"



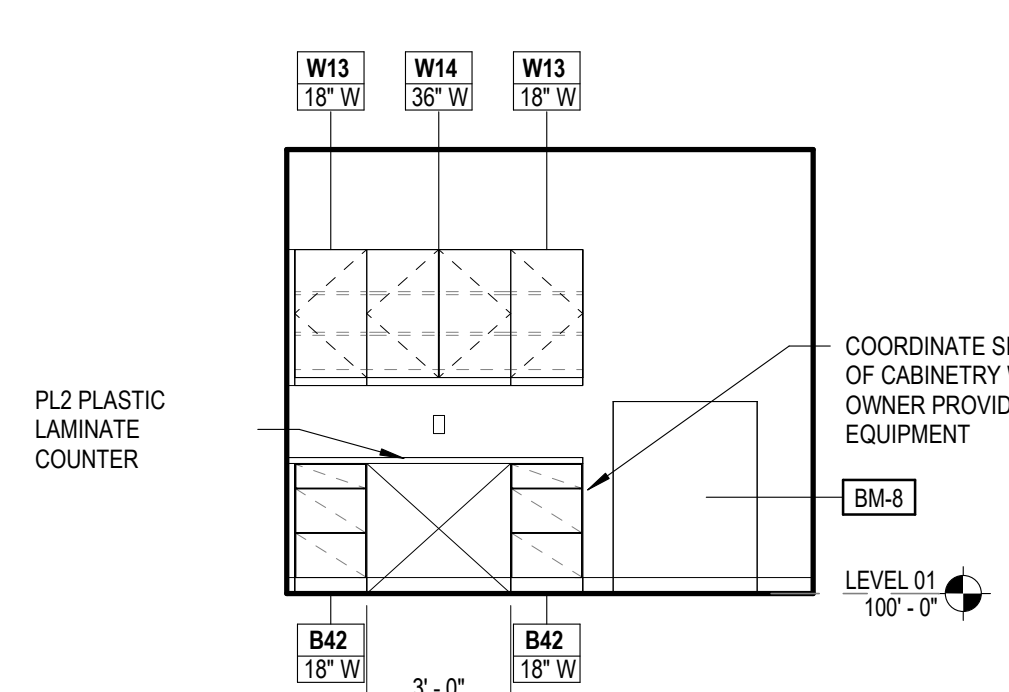
19 DIRECTOR NORTH
SCALE 1/4" = 1'-0"



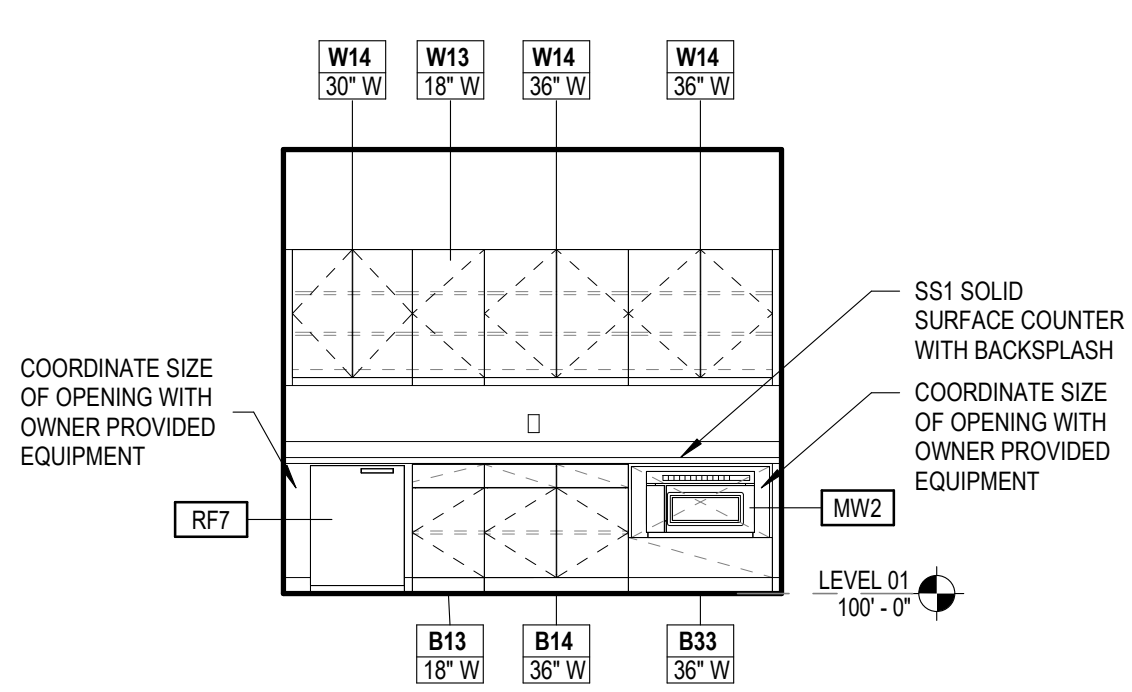
16 GROUP ROOM WEST
SCALE 1/4" = 1'-0"



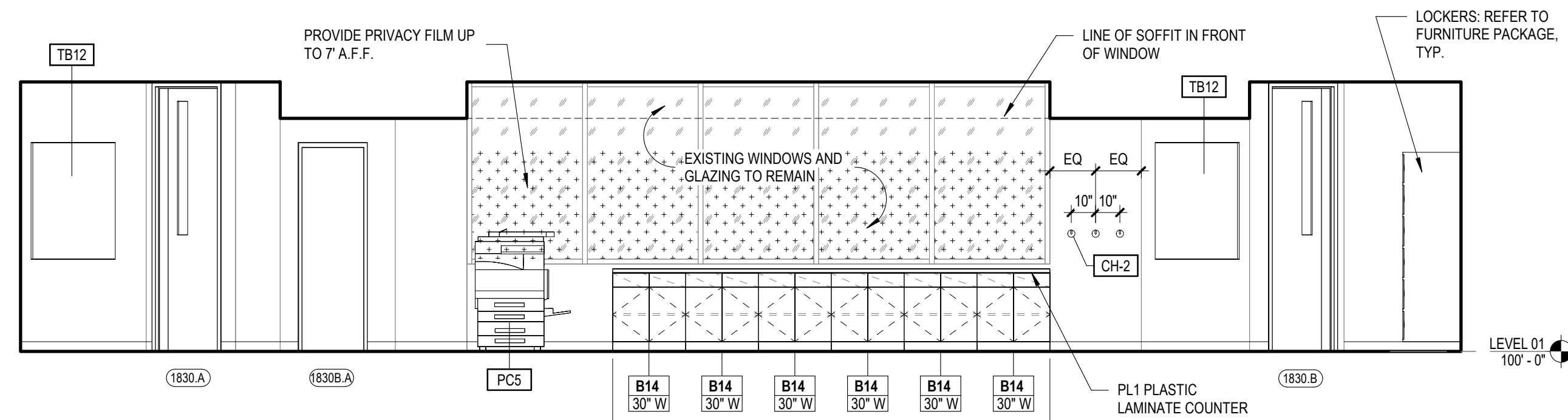
12 GROUP ROOM NORTH
SCALE 1/4" = 1'-0"



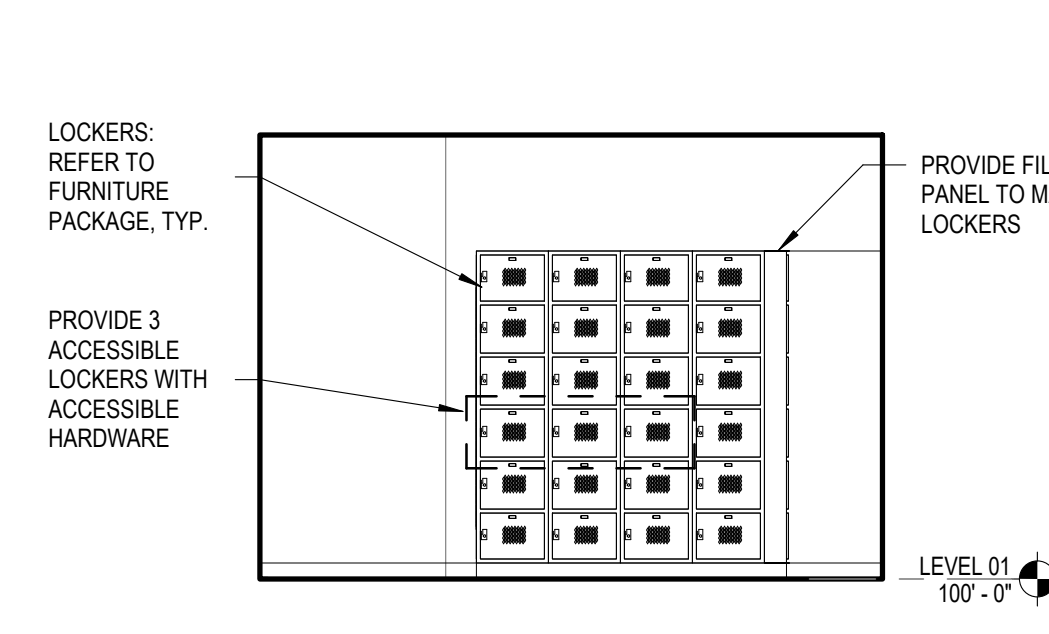
8 STOR/WORKROOM SOUTH
SCALE 1/4" = 1'-0"



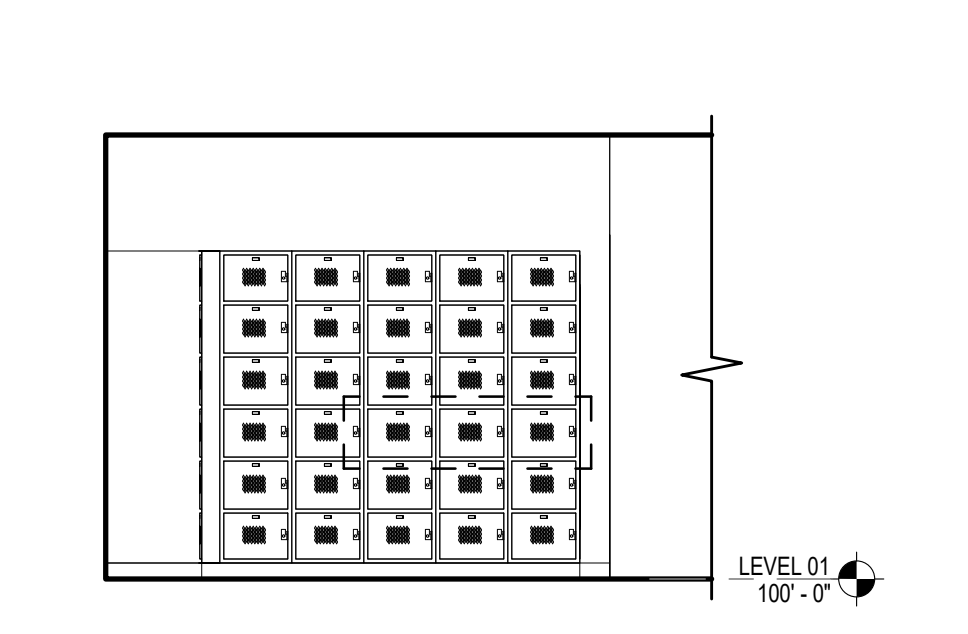
4 BREAKROOM SOUTH
SCALE 1/4" = 1'-0"



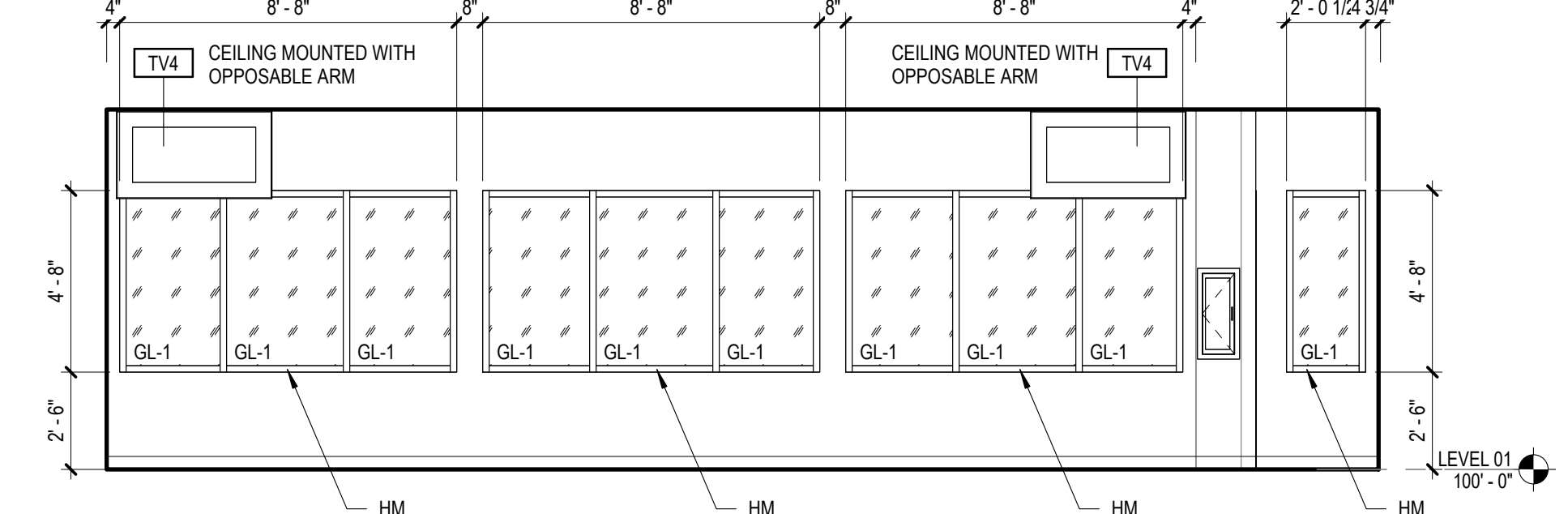
15 TESTING RECEPTION NORTH
SCALE 1/4" = 1'-0"



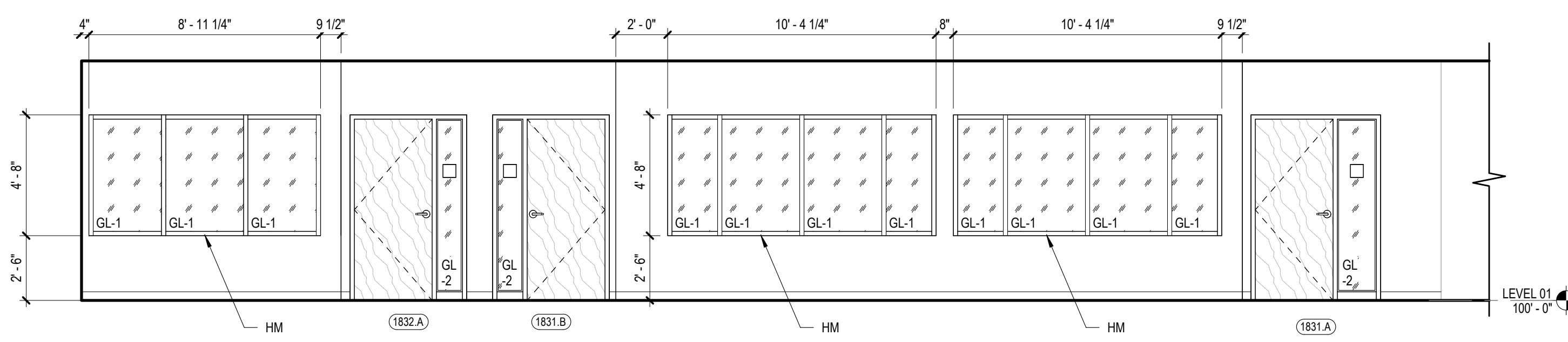
11 TESTING RECEPTION EAST
SCALE 1/4" = 1'-0"



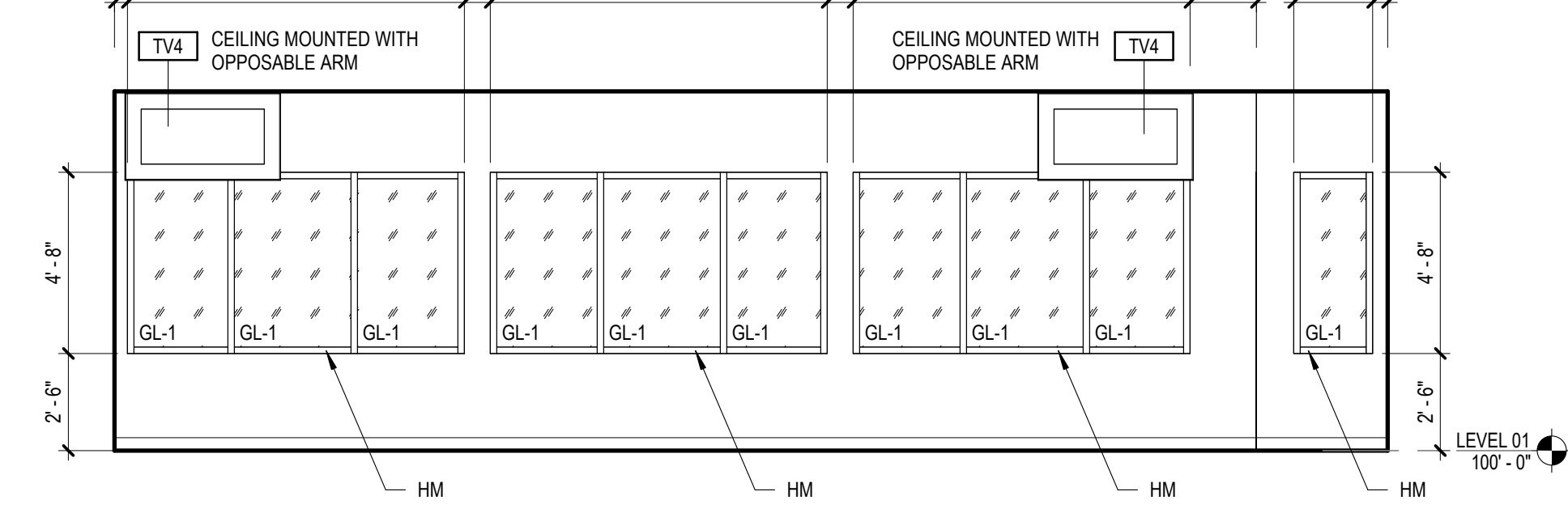
7 TESTING RECEPTION SOUTH
SCALE 1/4" = 1'-0"



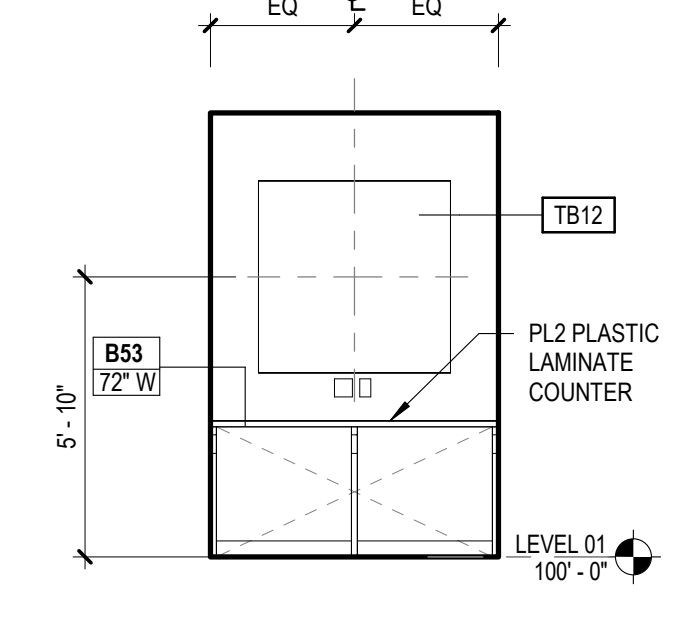
3 TESTING NORTH
SCALE 1/4" = 1'-0"



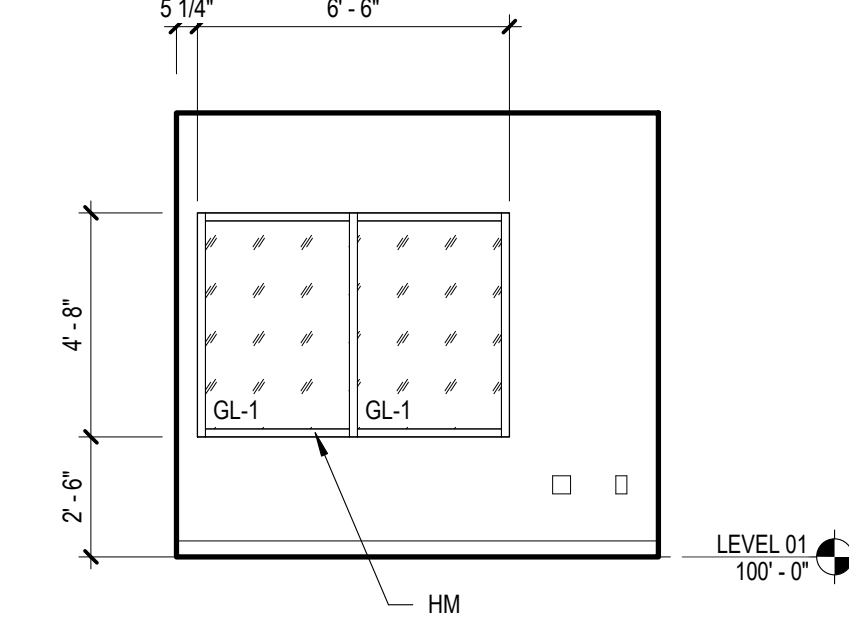
14 TESTING CORRIDOR WEST
SCALE 1/4" = 1'-0"



6 OUTSIDE TESTING NORTH
SCALE 1/4" = 1'-0"



2 ACCOMMODATION EAST
SCALE 1/4" = 1'-0"



1 OFFICE NORTH
SCALE 1/4" = 1'-0"

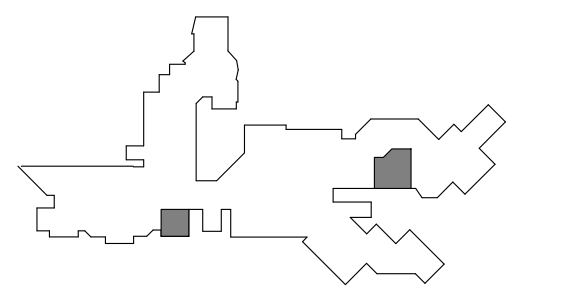
ISSUED FOR BID 23 SEPTEMBER 2024

**PROJECT
ADJACENCIES
RENOVATIONS
PHASE 1**

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016



KEY PLAN



ISSUE CHART

ISSUED FOR BID	23 SEP 24
ISSUE	DATE
Job Number	021074.000
TITLE	

INTERIOR ELEVATIONS

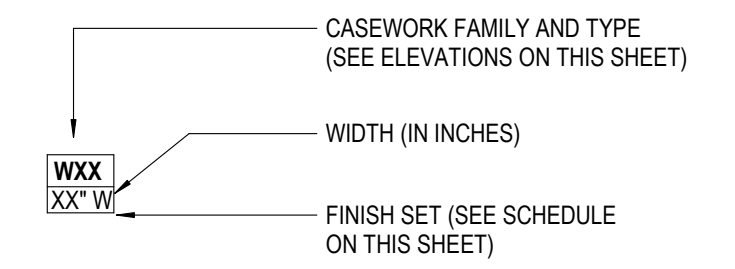
SHEET NUMBER

8.A44-01

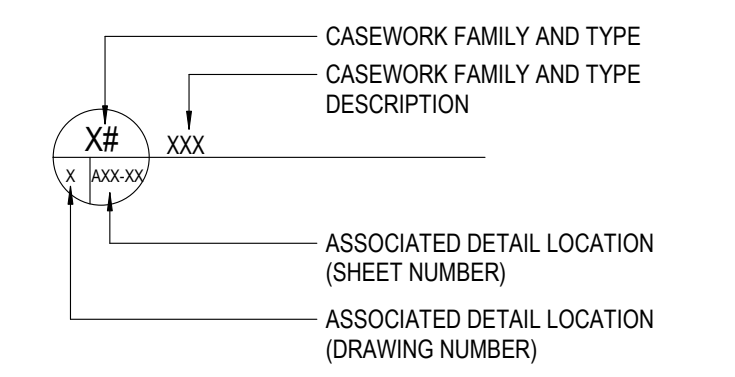
**CASEWORK
GENERAL NOTES**

- THE CASEWORK TYPES SHOWN ON THIS SHEET REPRESENT THE STANDARD TYPES WHICH FREQUENTLY OCCUR IN PROJECTS OF THIS NATURE. SOME TYPES MAY NOT BE USED.
- THE 'CASEWORK TAG' SYMBOLS SPECIFYING THE PARTICULAR MODULES ARE SHOWN ON THE INTERIOR ELEVATIONS.
- FOR SPECIAL CASEWORK CONFIGURATIONS AND/OR COMPONENTS REFER TO THE INTERIOR ELEVATIONS.
- REFER TO THE 'CASEWORK TAG' SHOWN IN THE INTERIOR ELEVATIONS FOR SCHEDULED FINISH MATERIALS.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
- PROVIDE NECESSARY BACKING, BLOCKING AND OTHER STRUCTURAL SUPPORT.
- AT END UNITS WITH EXPOSED SIDES PROVIDE FINISH EQUAL TO OTHER EXPOSED SURFACES.
- AT END UNITS WITH ADDITIONAL SPACE BETWEEN CABINET AND WALL PROVIDE FINISH FILLER PANELS TO MATCH OTHER EXPOSED SURFACES.
- CABINET HEIGHTS ARE TO BE AS SHOWN ON THIS SHEET UNLESS INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS.

CASEWORK TAG



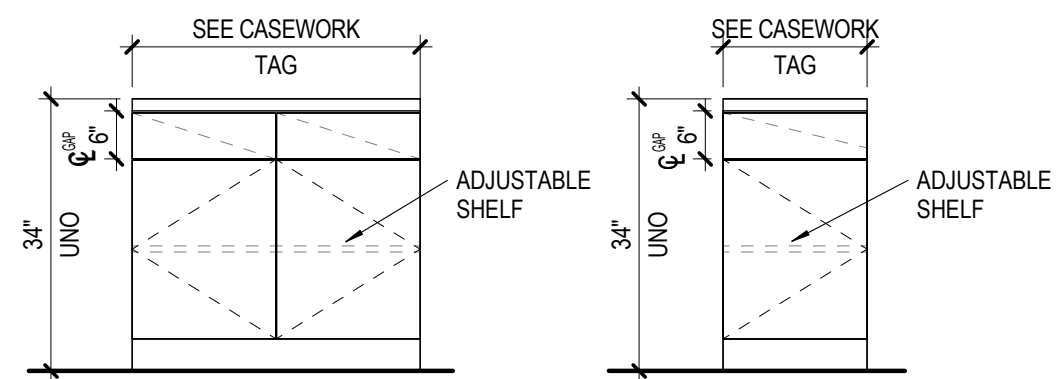
LEGEND



**CASEWORK DETAILS
GENERAL NOTES**

- ALL VERTICAL SURFACES OF CASEWORK TO BE PL1 FINISH, U.N.O. REFER TO ELEVATIONS AND FINISH SCHEDULE FOR COUNTER TOP FINISHES.
- CASEWORK HARDWARE IS NOT SHOWN FOR CLARITY. DOOR/DRAWER PULLS ARE IDENTIFIED IN THE FINISH SETS. OTHER HARDWARE IS DEFINED ELSEWHERE IN THE DRAWINGS AND IN THE SPECIFICATIONS.
- DOOR PULLS FOR FULL HEIGHT CABINETS ARE TO BE LOCATED WITH THE TOPS AT 48" AFF MAX. UNO.

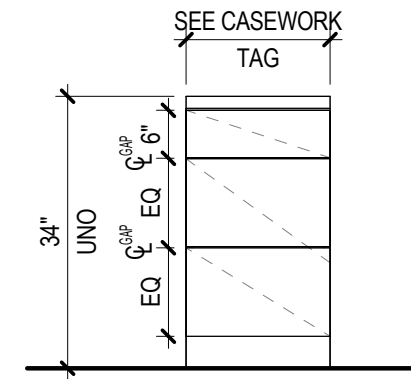
BASE CABINETS WITH DOORS



B14 BASE CABINET
DOUBLE DOOR, 2 DRAWERS
1 A50-00

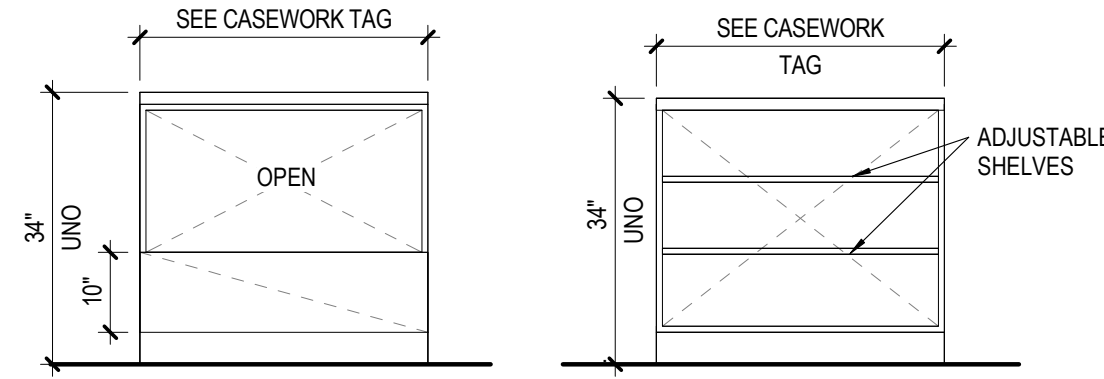
B13 BASE CABINET
SINGLE DOOR/DRAWER
2 A50-00

**BASE CABINETS
WITH DRAWERS**



B42 BASE CABINET
3 DRAWERS
3 A50-00

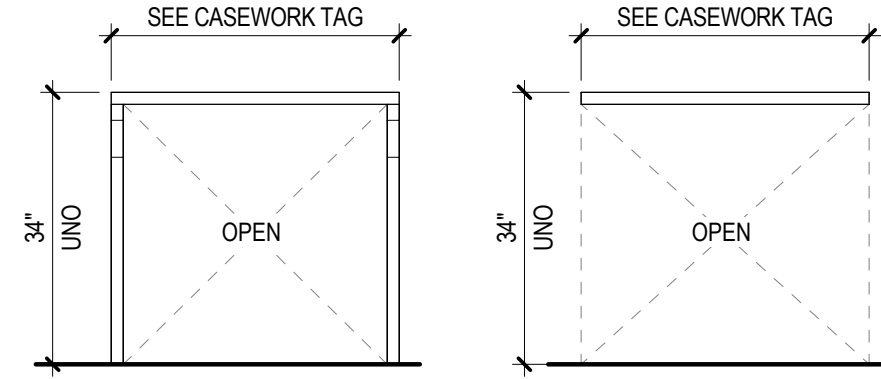
BASE CABINETS WITH OPEN SHELVES



B33 BASE CABINET
OPEN FOR MICROWAVE
1 DRAWER
2 A50-00

B31 BASE CABINET - OPEN SHELVES
3 A50-00

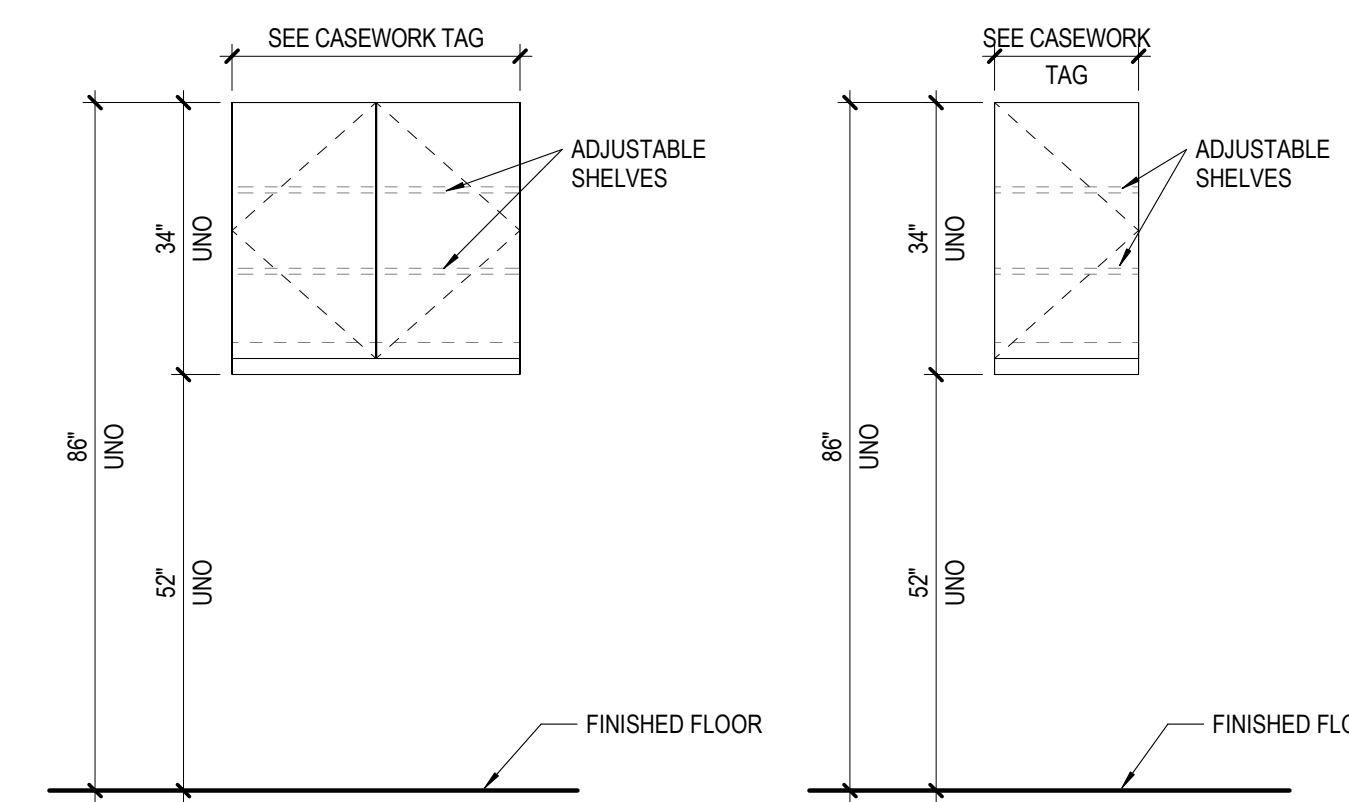
OPEN COUNTERS



B53 COUNTER WITH PLUMB SUPPORTS
1 A50-00

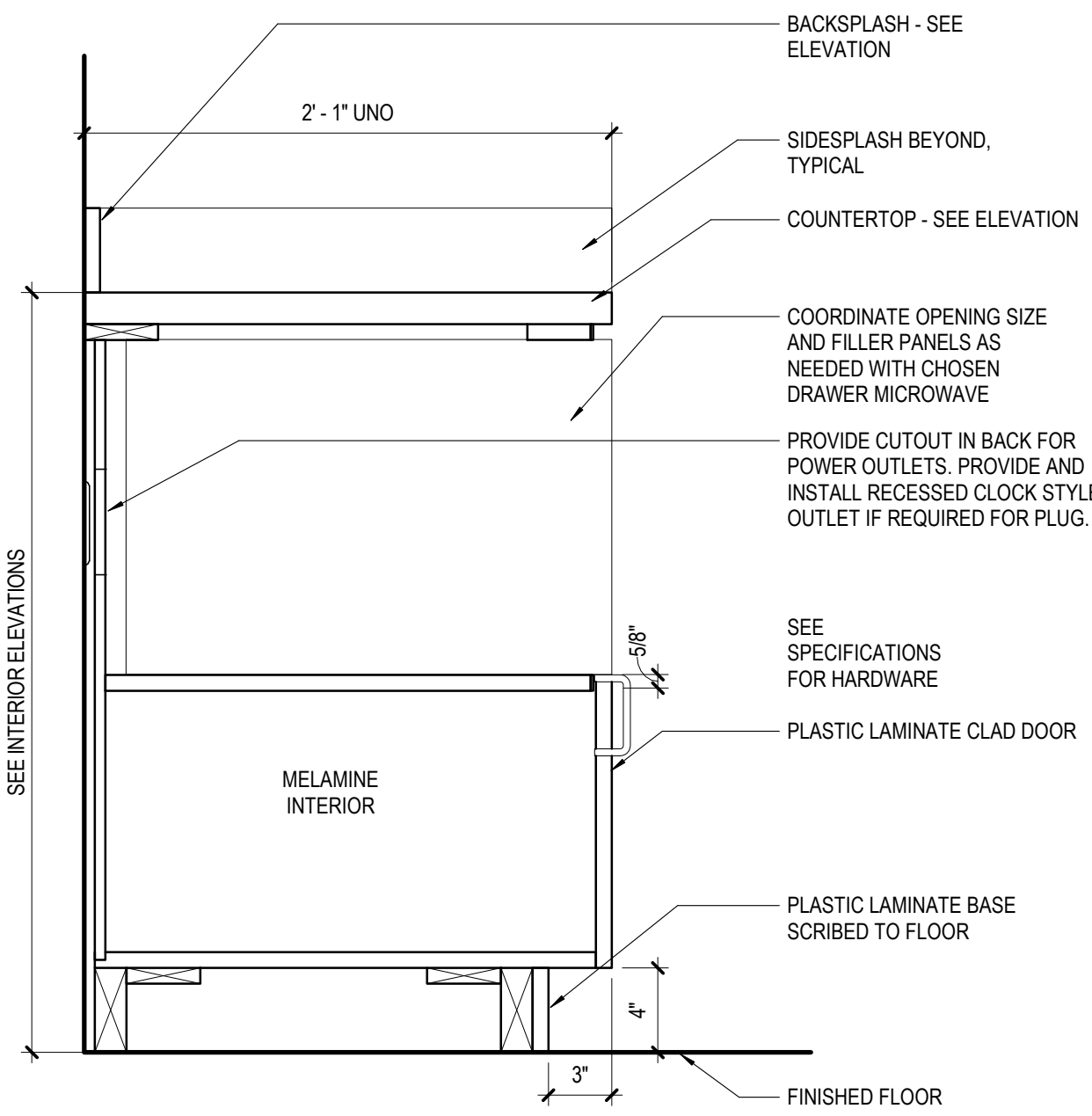
B51 COUNTER AT EQUIPMENT
4 A50-00

WALL CABINETS WITH DOORS

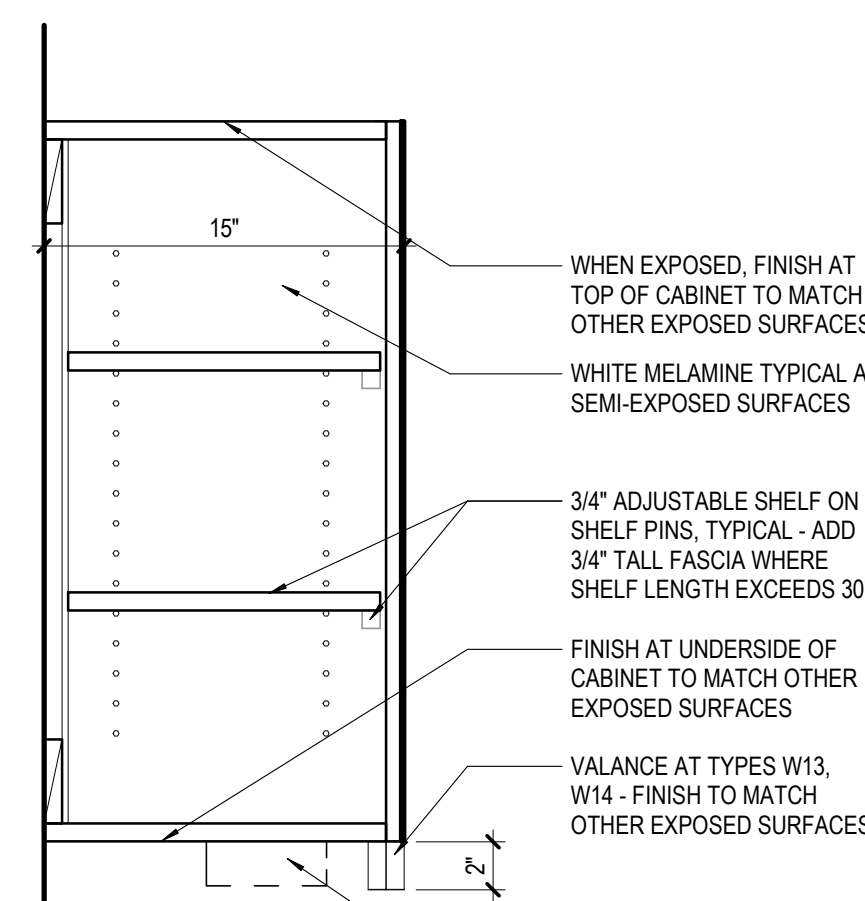


W14 WALL CABINET - DOUBLE DOOR
WITH VALANCE
1 A50-00

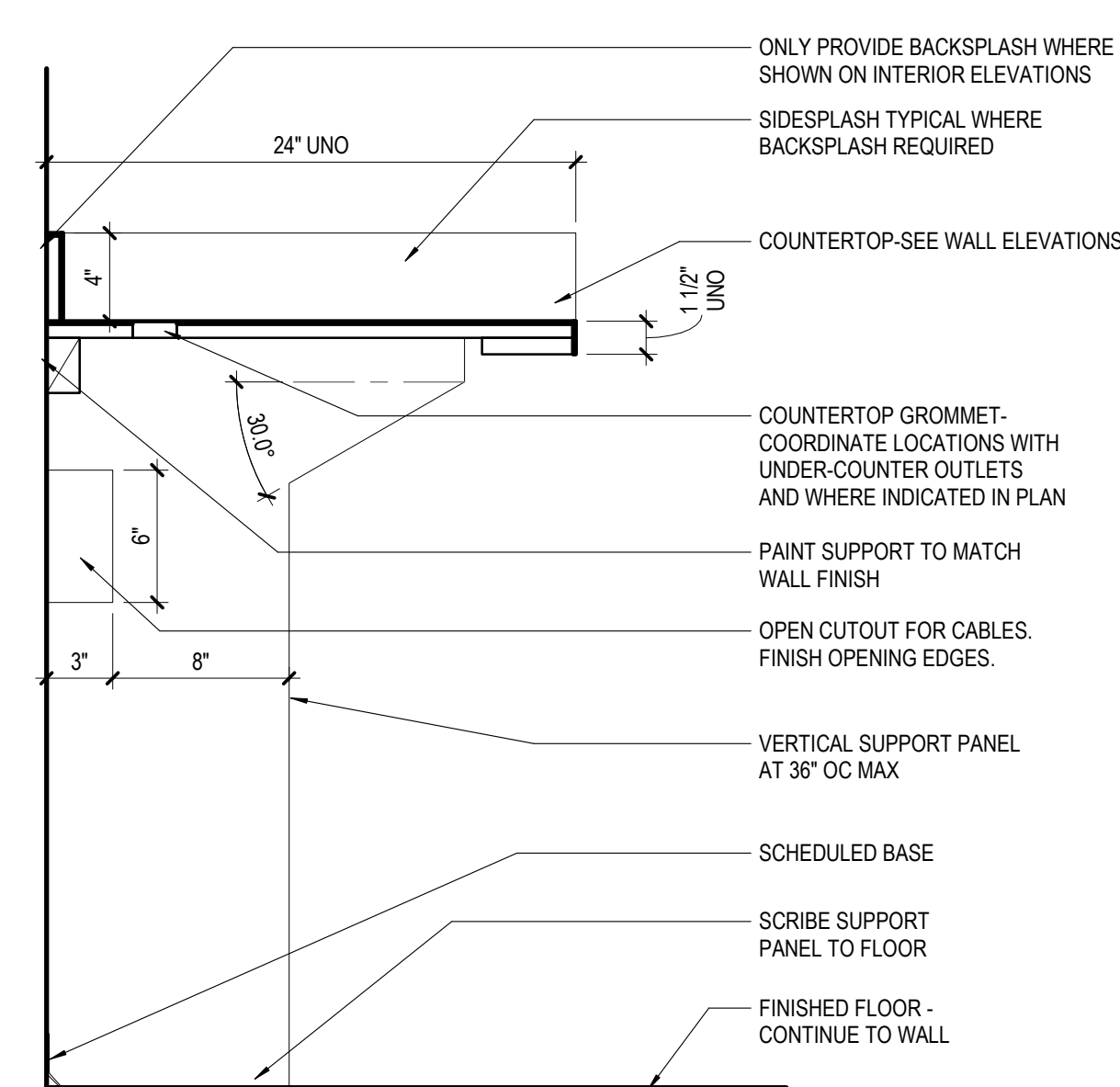
W13 WALL CABINET - SINGLE DOOR
WITH VALANCE
1 A50-00



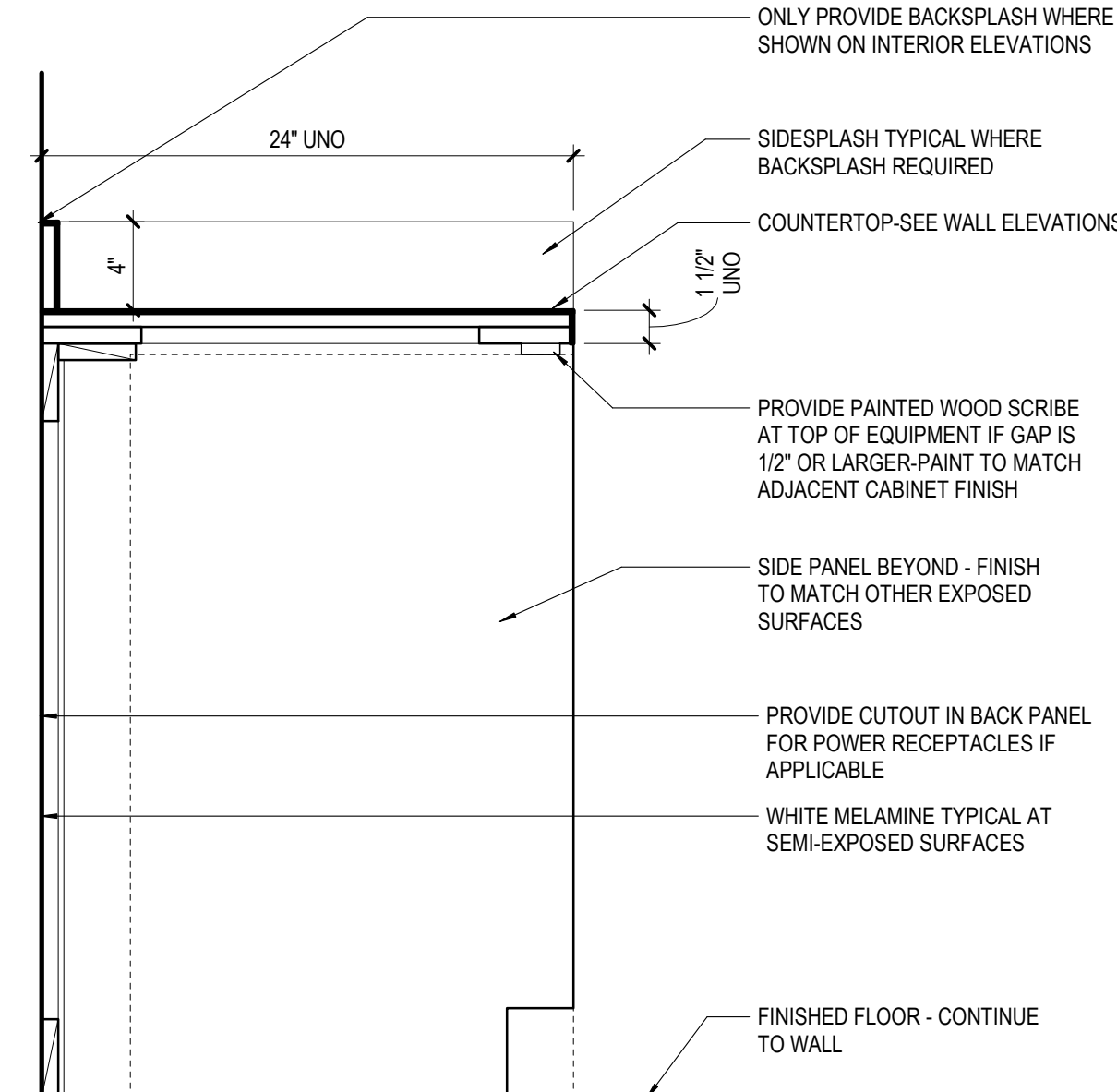
2 SECTION - COUNTER WITH MICROWAVE
SCALE 1 1/2" = 1'-0"



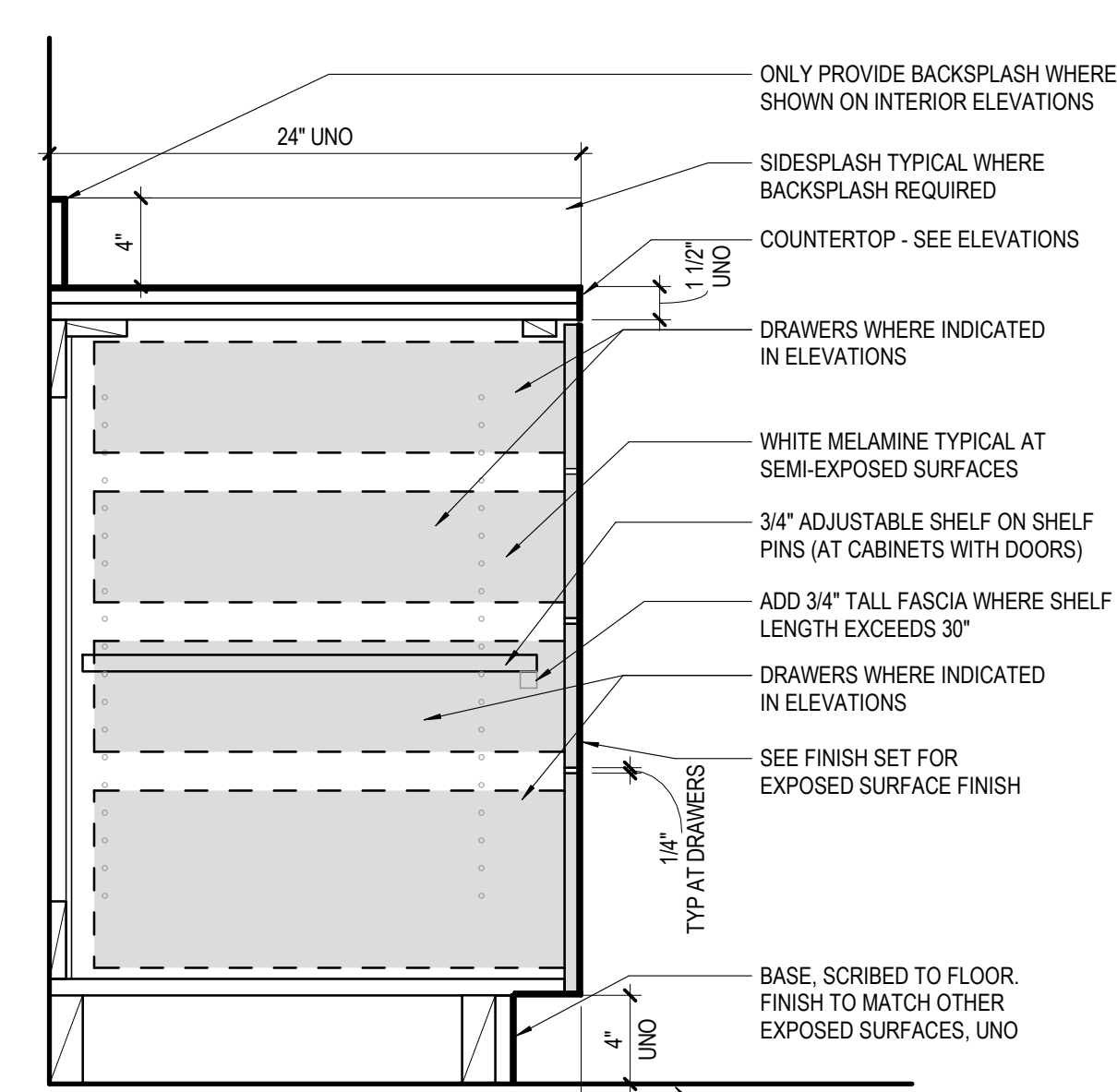
1 SECTION - WALL CABINET
SCALE 1 1/2" = 1'-0"



5 SECTION - WORK COUNTER
SCALE 1 1/2" = 1'-0"



4 SECTION - COUNTER AT EQUIP
SCALE 1 1/2" = 1'-0"



3 SECTION - BASE CABINET
SCALE 1 1/2" = 1'-0"

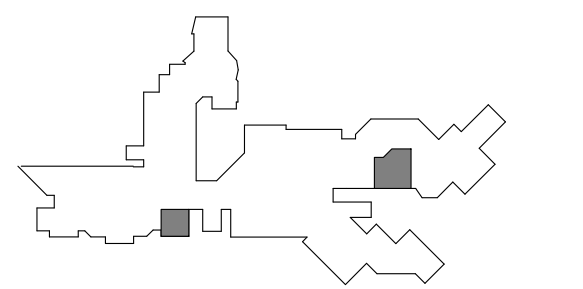
ISSUED FOR BID 23 SEPTEMBER 2024

**PROJECT
ADJACENCIES
RENOVATIONS
PHASE 1**

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016



KEY PLAN



ISSUE CHART

NO.	ISSUED FOR BID	23 SEP 24
DATE	ISSUE	DATE
1	ISSUED FOR BID	23 SEP 24
2	ISSUE	021074.000

Job Number 021074.000

**CASEWORK
ELEVATIONS & DETAILS**

SHEET NUMBER

8.A50-00

**INTERIOR PARTITION CHARTS
GENERAL NOTES**

PARTITION TYPE GENERAL NOTES

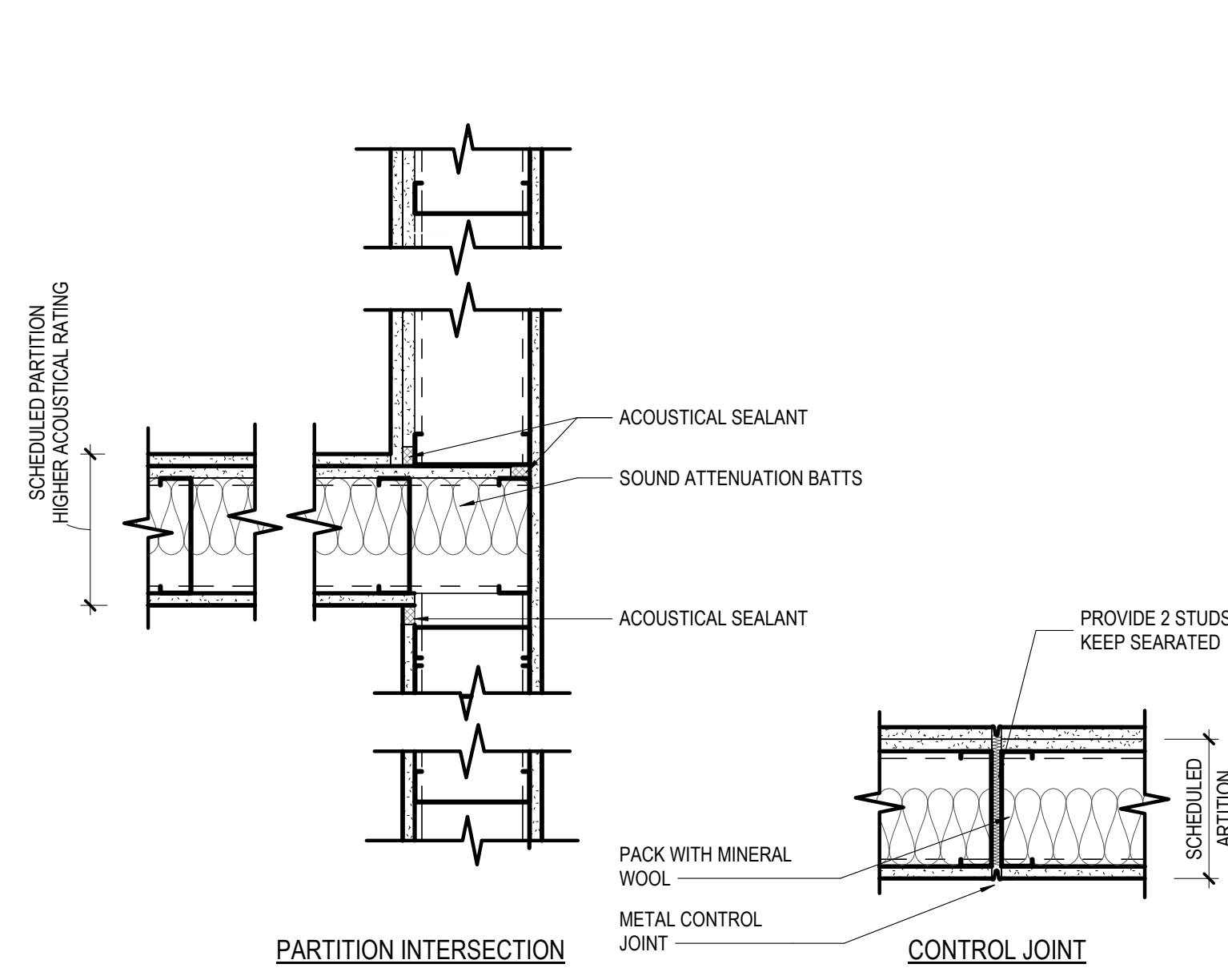
- NOT ALL PARTITION TYPES SHOWN ARE UTILIZED.
- PARTITION TYPE, FIRE-RESISTANCE RATING AND STC RATING INDICATED FOR A GIVEN PARTITION ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF THAT PARTITION UNLESS OTHERWISE NOTED.
- CONSTRUCT FIRE-RESISTANCE RATED PARTITIONS BEFORE NON-RATED. ABUT NON-RATED PARTITIONS INTO RATED PARTITIONS.
- ISOLATE NON-LOAD BEARING FRAMING FROM STRUCTURAL ELEMENTS TO PREVENT THE TRANSFER OF LOAD TO PARTITION FRAMING. UNLESS OTHERWISE NOTED, STOP VERTICAL STUDS 1/2" BELOW TOP OF CEILING RUNNER (TOP TRACK) TO ALLOW FOR VERTICAL DEFLECTION. DO NOT ATTACH STUDS OR GYPSUM BOARD TO CEILING RUNNER (TOP TRACK). THIS MAY ALSO BE ACHIEVED BY UTILIZING PROPRIETARY SYSTEMS DESCRIBED IN THE SPECIFICATIONS.
- PROVIDE DOUBLE STUD FRAMING AT JAMBS OF ALL PARTITION OPENINGS.
- WHERE CONTROL JOINTS ARE REQUIRED BASED UPON SPECIFIED FREQUENCY, AND ARE NOT SHOWN ON INTERIOR ELEVATIONS, LOCATE CONTROL JOINTS ON BOTH STRIKE AND HINGE SIDES OF DOORS. WHEN PROVIDING CONTROL JOINTS AT DOORS DOES NOT MEET THE SPECIFIED FREQUENCY, PROVIDE DOUBLE STUD CONTROL JOINT CONSTRUCTION AND VERIFY LOCATION WITH THE ARCHITECT PRIOR TO PROCEEDING.
- PROVIDE SHEET METAL BLOCKING/BACKING FOR WALL MOUNTED ITEMS SPECIFIED OR SHOWN IN THE DRAWINGS.

FIRE-RESISTANCE RATED PARTITIONS (THE FOLLOWING NOTES APPLY TO ALL PARTITIONS DESIGNATED TO HAVE A FIRE-RESISTANCE RATING.)

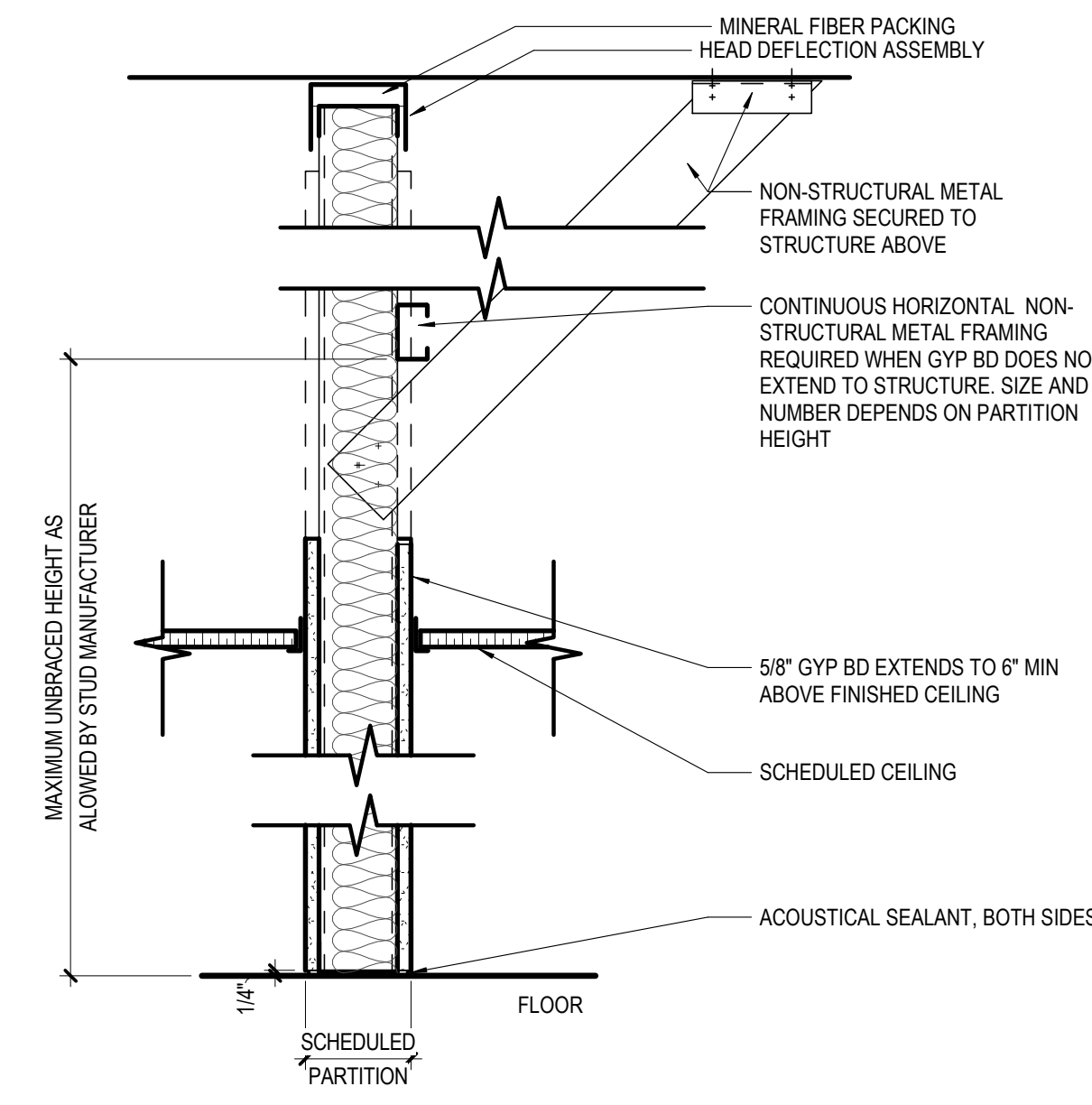
- PROVIDE PERMANENTLY STENCILED IDENTIFICATION ABOVE THE CEILING AT 4'-0" OC ON ALL FIRE-RESISTANCE RATED PARTITIONS. THE IDENTIFICATION SHALL BE A MINIMUM OF 4" HIGH AND READ AS FOLLOWS: "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS"
- FIRE-RESISTANCE RATED PARTITIONS SHALL BE CONSTRUCTED FROM THE TOP OF NON-FINISHED FLOOR TO THE UNDERSIDE OF THE FLOOR OR ROOF STRUCTURE ABOVE.
- THROUGH-PENETRATIONS IN FIRE-RESISTANCE RATED PARTITIONS SHALL BE SEALED WITH MATERIALS AND ASSEMBLIES NECESSARY TO MAINTAIN THE REQUIRED FIRE-RESISTANCE RATING.

ACOUSTICAL PARTITIONS (THE FOLLOWING NOTES APPLY TO ALL PARTITIONS DESIGNATED TO HAVE EITHER SOUND ATTENUATION BLANKETS OR A SOUND TRANSMISSION CLASS (STC) RATING.)

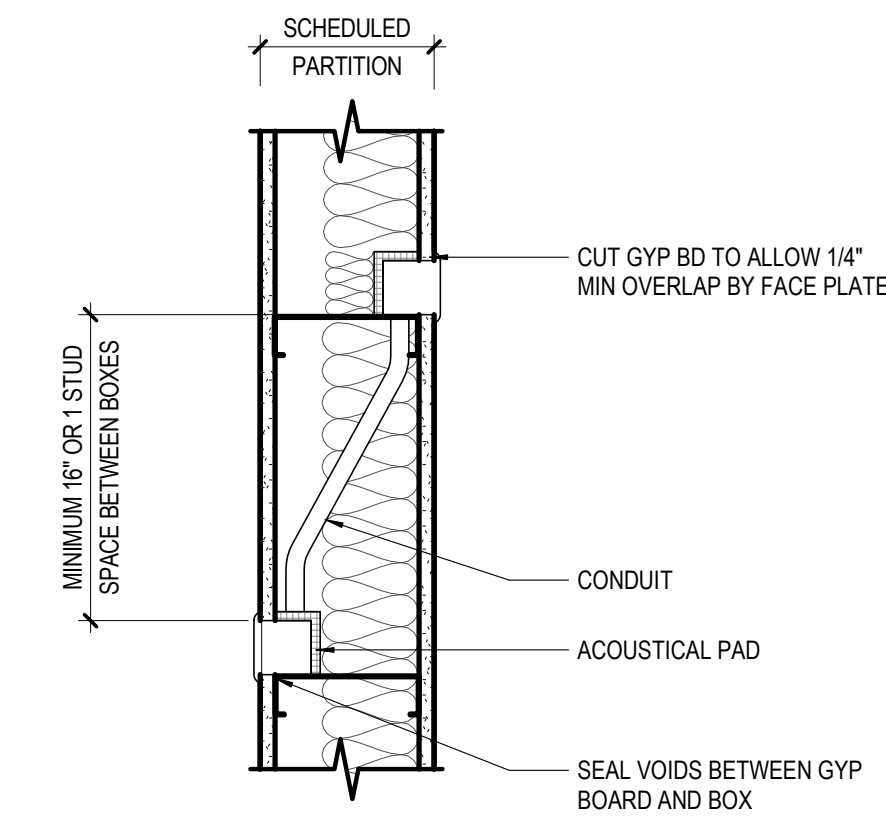
- SEAL PARTITIONS AT ENTIRE PERIMETER WITH NON-HARDENING ACOUSTICAL SEALANT.
- SOUND ATTENUATION BLANKETS ARE TO FILL THE DEPTH OF THE FRAMING CAVITY UNLESS OTHERWISE NOTED.
- DO NOT COMPRESS SOUND ATTENUATION BLANKETS AT BLOCKING OR RECESSED ITEMS.
- SEAL ALL WALL INTERSECTIONS AND CONTROL JOINTS WITH NON-HARDENING ACOUSTICAL SEALANT.
- SEAL ALL CONDUIT, STRUCTURAL, DUCT AND PIPE PENETRATIONS WITH NON-HARDENING ACOUSTICAL SEALANT.
- PROVIDE ACOUSTICAL PADS AROUND ANY ITEMS PENETRATING THE FACE OF PARTITION, INCLUDING ELECTRICAL AND TECHNOLOGY JUNCTION OR DEVICE BOXES.
- ELECTRICAL/TECHNOLOGY BOXES ON OPPOSITE SIDES OF A PARTITION ARE TO BE SEPARATED BY A MINIMUM OF 1 STUD SPACE.



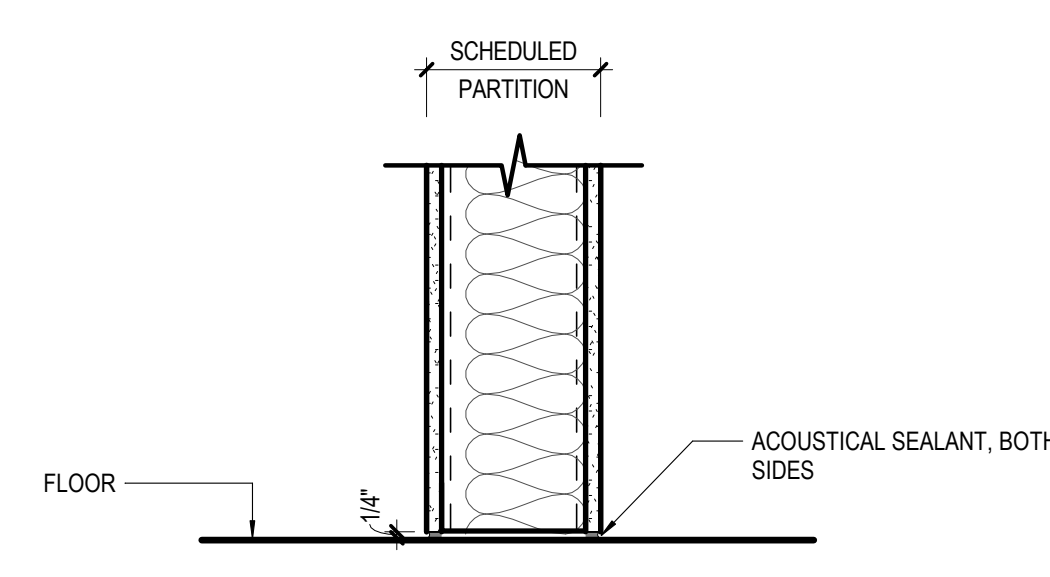
6 ACOUSTICAL PARTITION PLAN DETAILS
SCALE 1 1/2" = 1'-0"



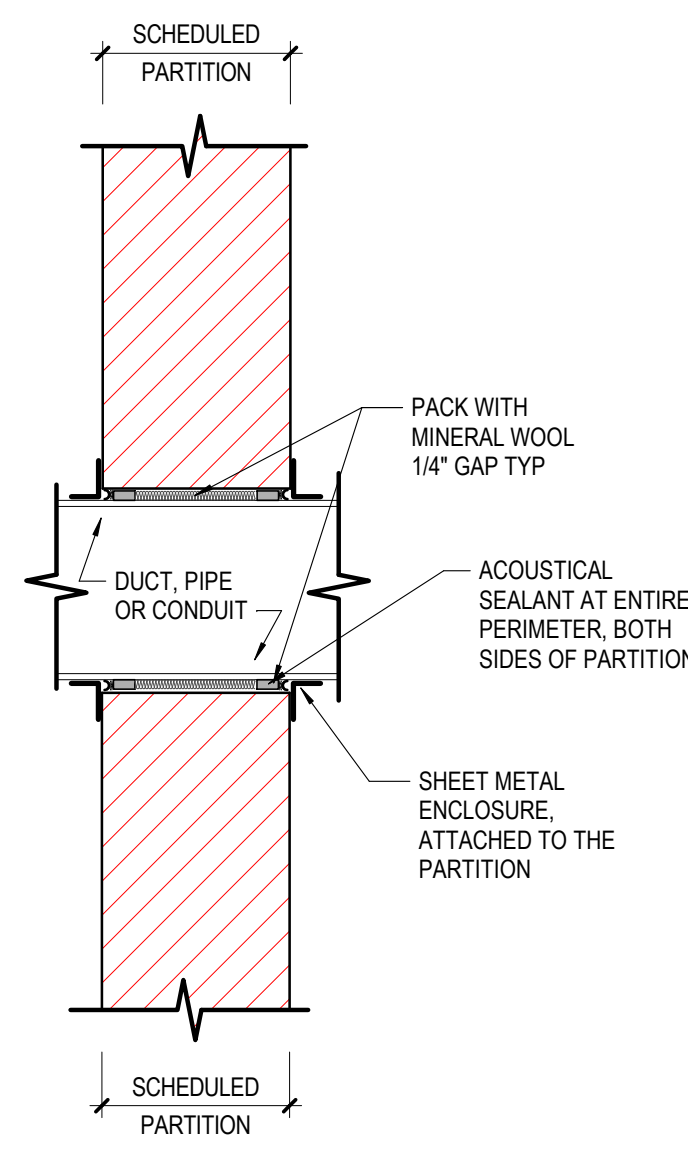
4 PARTITION SECTION
SCALE 1 1/2" = 1'-0"



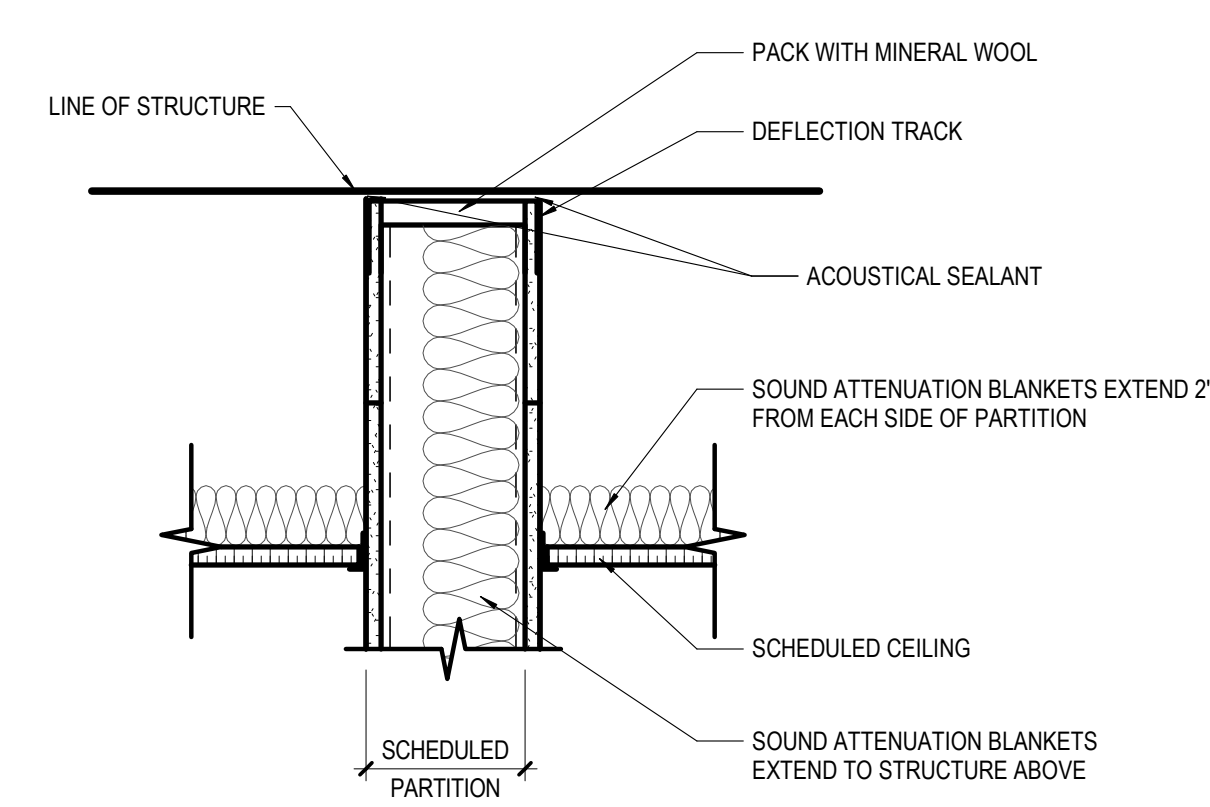
2 ACOUSTICAL PARTITION PLAN DETAIL
SCALE 1 1/2" = 1'-0"



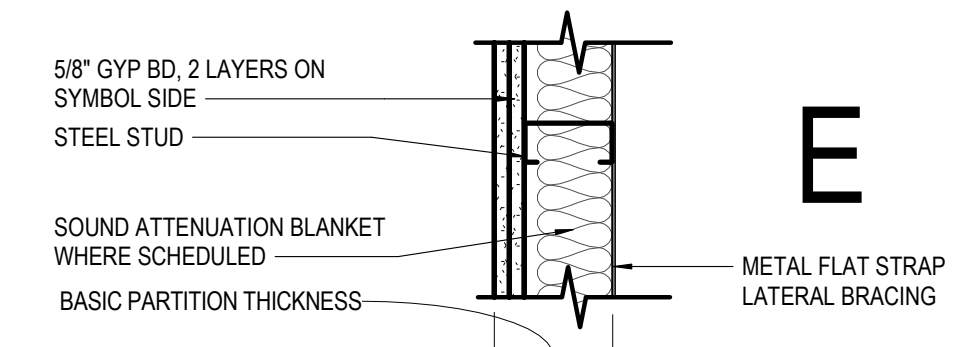
5 ACOUSTICAL PARTITION @ FLOOR
SCALE 1 1/2" = 1'-0"



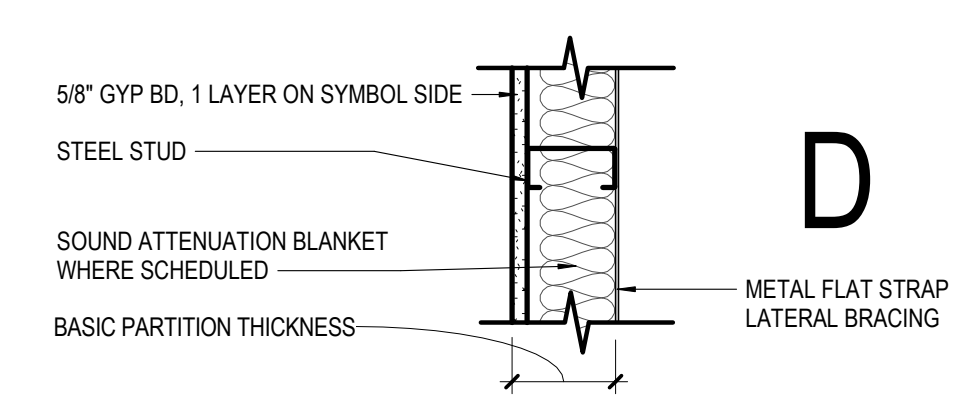
3 ACOUSTICAL SLEEVE SECTION
SCALE 1 1/2" = 1'-0"



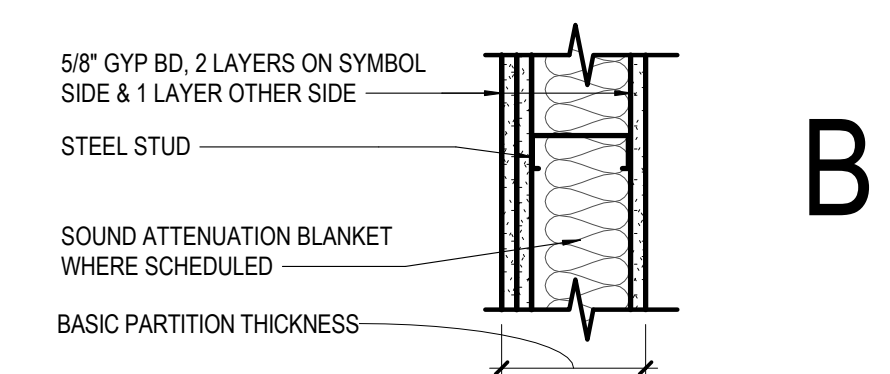
1 ACOUSTICAL PARTITION @ CEILING
SCALE 1 1/2" = 1'-0"



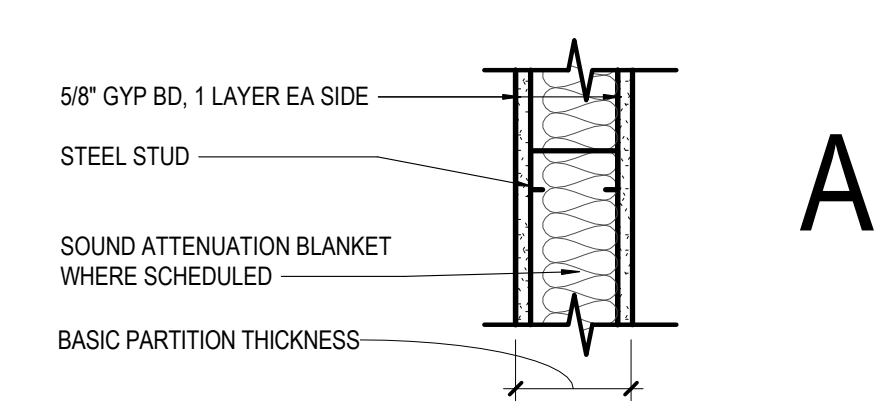
	E1	E2	E3	E4	E5	E6	E7	E8	E9
NON-RATED WITH GYP BD TO STRUCTURE ABOVE	(E11)	(E21)	(E31)	(E41)	(E51)	(E61)	(E71)	(E81)	(E91)
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	(E12)	(E22)	(E32)	(E42)	(E52)	(E62)	(E72)	(E82)	(E92)
NON-RATED WITH STUDS & GYP BD TO FINISHED CEILING	(E13)	(E23)	(E33)	(E43)	(E53)	(E63)	(E73)	(E83)	(E93)
STUD SIZE	2 1/2"	2 1/2"	3 5/8"	3 5/8"	4"	4"	6"	6"	1 5/8"
BASIC PARTITION THICKNESS	3 3/4"	3 3/4"	4 7/8"	4 7/8"	5 1/4"	5 1/4"	7 1/4"	7 1/4"	2 3/4"
ACOUSTICAL INSULATION	-	YES	-	YES	-	YES	-	YES	YES



	D1	D2	D3	D4	D5	D6	D7	D8	D9
NON-RATED WITH GYP BD TO STRUCTURE ABOVE	(D11)	(D21)	(D31)	(D41)	(D51)	(D61)	(D71)	(D81)	(D91)
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	(D12)	(D22)	(D32)	(D42)	(D52)	(D62)	(D72)	(D82)	(D92)
NON-RATED WITH STUDS & GYP BD TO FINISHED CEILING	(D13)	(D23)	(D33)	(D43)	(D53)	(D63)	(D73)	(D83)	(D93)
STUD SIZE	2 1/2"	2 1/2"	3 5/8"	3 5/8"	4"	4"	6"	6"	1 1/2"
BASIC PARTITION THICKNESS	3 1/8"	3 1/8"	4 1/4"	4 1/4"	4 5/8"	4 5/8"	6 5/8"	6 5/8"	2 1/8"
ACOUSTICAL INSULATION	-	YES	-	YES	-	YES	-	YES	YES



	B1	B2	B3	B4	B5	B6	B7	B8
1-HR RATED WITH GYP BD TO STRUCTURE ABOVE	(B20)	(B30)	(B40)	(B50)	(B60)	(B70)	(B80)	
NON-RATED WITH GYP BD TO STRUCTURE ABOVE	(B11)	(B21)	(B31)	(B41)	(B51)	(B61)	(B71)	(B81)
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	(B12)	(B22)	(B32)	(B42)	(B52)	(B62)	(B72)	(B82)
NON-RATED WITH STUDS & GYP BD TO FINISHED CEILING	(B13)	(B23)	(B33)	(B43)	(B53)	(B63)	(B73)	(B83)
STUD SIZE	2 1/2"	2 1/2"	3 5/8"	3 5/8"	4"	4"	6"	6"
BASIC PARTITION THICKNESS	4 3/8"	4 3/8"	5 1/2"	5 1/2"	5 7/8"	5 7/8"	7 7/8"	7 7/8"
ACOUSTICAL INSULATION	-	YES	-	YES	-	YES	-	YES
FIRE TEST NUMBER	-	UL DES U494	UL DES U465	UL DES U465	UL DES U465	UL DES U465	UL DES U465	UL DES U465



	A1	A2	A3	A4	A5	A6	A7	A8
1-HR RATED WITH GYP BD TO STRUCTURE ABOVE	(A20)	(A30)	(A40)	(A50)	(A60)	(A70)	(A80)	49
NON-RATED WITH GYP BD TO STRUCTURE ABOVE	(A11)	(A21)	(A31)	(A41)	(A51)	(A61)	(A71)	(A81)
NON-RATED WITH GYP BD TO 6" ABOVE CEILING	(A12)	(A22)	(A32)	(A42)	(A52)	(A62)	(A72)	(A82)
NON-RATED WITH STUDS & GYP BD TO FINISHED CEILING	(A13)	(A23)	(A33)	(A43)	(A53)	(A63)	(A73)	(A83)
STUD SIZE	2 1/2"	2 1/2"	3 5/8"	3 5/8"	4"	4"	6"	6"
BASIC PARTITION THICKNESS	3 3/4"	3 3/4"	4 7/8"	4 7/8"	5 1/4"	5 1/4"	7 1/4"	7 1/4"
ACOUSTICAL INSULATION	-	YES	-	YES	-	YES	-	YES
FIRE TEST NUMBER	-	UL DES U494	UL DES U465	UL DES U465	UL DES U465	UL DES U465	UL DES U465	UL DES U465

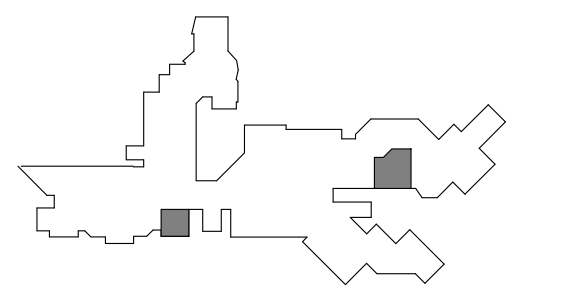
**PROJECT
ADJACENCIES
RENOVATIONS
PHASE 1**

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016



ISSUED FOR BID 23 SEPTEMBER 2024

KEY PLAN



ISSUE CHART

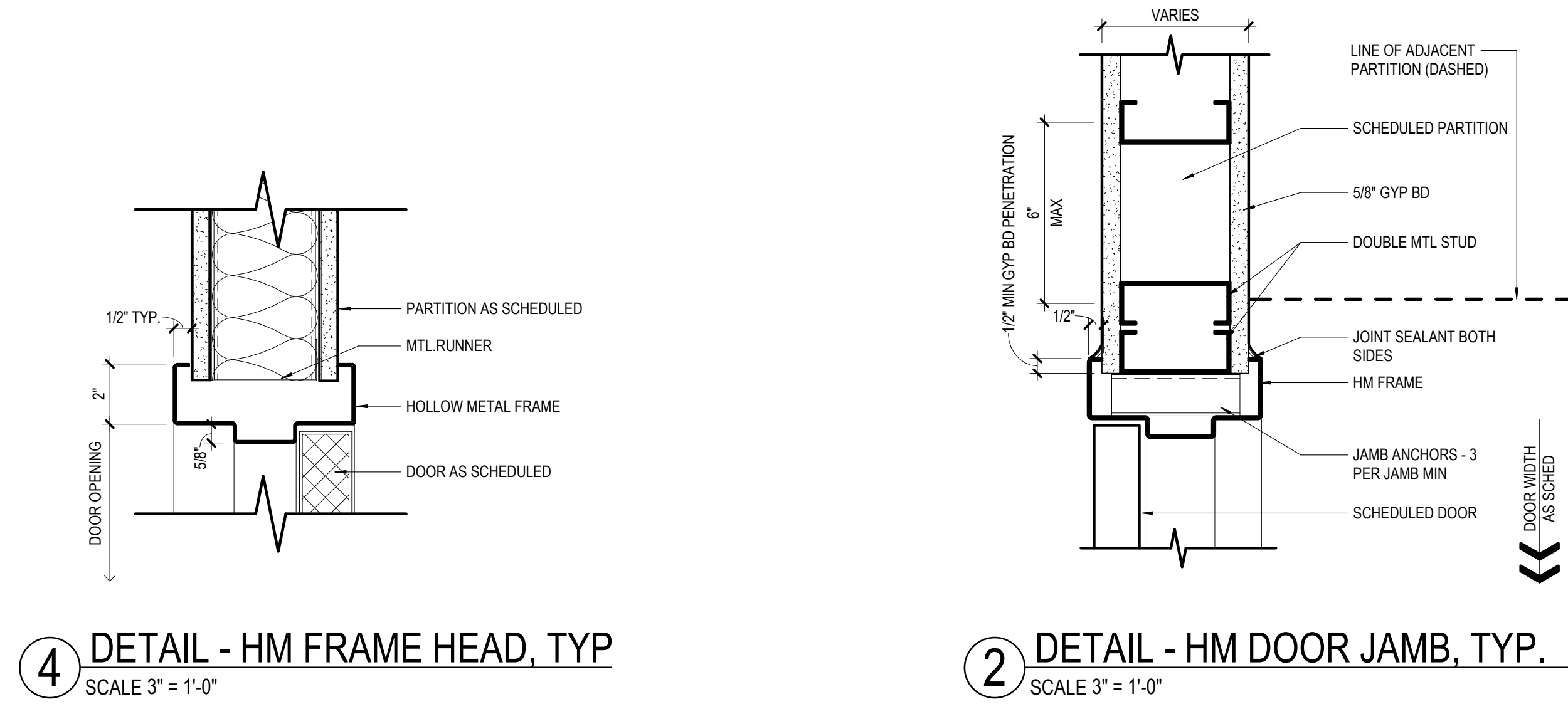
NO.	ISSUED FOR BID	23 SEP 24
DATE	DATE	DATE
1	ISSUED FOR BID	23 SEP 24
2	ISSUE	DATE
Job Number	021074.000	TITLE

**INTERIOR PARTITION
TYPES & DETAILS**

SHEET NUMBER

8.A61-01

DOOR SCHEDULE - ADJACENCIES RENOVATIONS PHASE 1														
DOOR NO	ROOM NAME	FIRE RATING	OPENING SIZE		DOOR			FRAME			DETAILS		HARDWARE SET NO	REMARKS
			WIDTH	HEIGHT	TYPE	MATL	FINISH	TYPE	MATL	FINISH	HEAD	JAMB		
1820.A	ADRC RECEPTION	-	3'-0"	9'-1"	F	HM	PT	F2	HM	PT	4 / 8.A62-01	2 / 8.A62-01	E1.00	AUTOMATIC WAVE OPERATOR
1821.A	GROUP ROOM	-	3'-0"	7'-0"	F	WD	PREFIN	F2-24	HM	PT	4 / 8.A62-01	2 / 8.A62-01	4.01	
1822.A	MANAGER	-	3'-0"	7'-0"	F	WD	PREFIN	F2-24	HM	PT	4 / 8.A62-01	2 / 8.A62-01	2.00	
1823.A	MANAGER	-	3'-0"	7'-0"	F	WD	PREFIN	F2-24	HM	PT	4 / 8.A62-01	2 / 8.A62-01	2.00	
1824.A	MANAGER	-	3'-0"	7'-0"	F	WD	PREFIN	F2-24	HM	PT	4 / 8.A62-01	2 / 8.A62-01	2.00	
1826.A	SR MANAGER	-	3'-0"	7'-0"	F	WD	PREFIN	F2-24	HM	PT	4 / 8.A62-01	2 / 8.A62-01	2.00	
1827A	STOR / WORKROOM	-	3'-0"	7'-0"	F	WD	PREFIN	F2-24	HM	PT	4 / 8.A62-01	2 / 8.A62-01	2.00	
1830.A	TESTING RECEPTION	-	3'-0"	9'-1"	N	HM	PT	ETR	HM	PT	-	-	E1.01	AUTOMATIC PUSH PAD OPERATOR
1830.B	TESTING RECEPTION	-	3'-0"	9'-1"	N	HM	PT	ETR	HM	PT	-	-	E1.01	AUTOMATIC PUSH PAD OPERATOR
1830A.A	STORAGE	-	3'-0"	7'-0"	F	HM	PT	F1	HM	PT	4 / 8.A62-01	2 / 8.A62-01	2.01	
1830B.A	TESTING RECEPTION	-	3'-0"	7'-0"	F	HM	PT	ETR	HM	PT	-	-	3.01	
1830C.A	TESTING RECEPTION	-	3'-0"	7'-0"	F	HM	PT	ETR	HM	PT	-	-	3.00	
1831.A	TESTING RECEPTION	-	3'-0"	7'-0"	F	WD	PREFIN	F2-18	HM	PT	4 / 8.A62-01	2 / 8.A62-01	1.00	
1831.B	TESTING RECEPTION	-	3'-0"	7'-0"	F	WD	PREFIN	F2-12	HM	PT	4 / 8.A62-01	2 / 8.A62-01	1.00	
1832.A	TESTING RECEPTION	-	3'-0"	7'-0"	F	WD	PREFIN	F2-12	HM	PT	4 / 8.A62-01	2 / 8.A62-01	1.00	
1832.B	OUTSIDE TESTING	-	3'-0"	7'-0"	F	HM	PT	F1	HM	PT	4 / 8.A62-01	2 / 8.A62-01	4.00	
1833.A	ACCOMM.	-	3'-0"	7'-0"	F	WD	PREFIN	F2-36	HM	PT	4 / 8.A62-01	2 / 8.A62-01	1.01	
1834.A	ACCOMM.	-	3'-0"	7'-0"	F	WD	PREFIN	F2-24	HM	PT	4 / 8.A62-01	2 / 8.A62-01	1.01	
1835.A	TESTING RECEPTION	-	3'-0"	7'-0"	F	WD	PREFIN	F2-24	HM	PT	4 / 8.A62-01	2 / 8.A62-01	1.01	
1836.A	ACCOMM.	-	3'-0"	7'-0"	F	WD	PREFIN	F2-24	HM	PT	4 / 8.A62-01	2 / 8.A62-01	1.01	
1837.A	TESTING RECEPTION	-	3'-0"	7'-0"	F	WD	PREFIN	F2-24	HM	PT	4 / 8.A62-01	2 / 8.A62-01	1.01	
1838.A	ACCOMM.	-	3'-0"	7'-0"	F	WD	PREFIN	F2-24	HM	PT	4 / 8.A62-01	2 / 8.A62-01	1.01	
1839.A	MANAGER	-	3'-0"	7'-0"	F	WD	PREFIN	F2-48	HM	PT	4 / 8.A62-01	2 / 8.A62-01	2.00	
2265.A	DEMONSTRATION / WORKSTATIONS	-	3'-0"	7'-0"	F	WD	PREFIN	F2-24	HM	PT	4 / 8.A62-01	2 / 8.A62-01	2.02	
2262.A	COLLAB	-	3'-0"	7'-0"	F	WD	PREFIN	F2-36	HM	PT	4 / 8.A62-01	2 / 8.A62-01	1.01	
2263.A	WORKROOM	-	3'-0"	7'-0"	F	HM	PT	F2-12	HM	PT	4 / 8.A62-01	2 / 8.A62-01	2.00	
2264.A	MANAGER	-	3'-0"	7'-0"	F	WD	PREFIN	F2-48	HM	PT	4 / 8.A62-01	2 / 8.A62-01	2.00	
2265.A	DIRECTOR	-	3'-0"	7'-0"	F	WD	PREFIN	F2-48	HM	PT	4 / 8.A62-01	2 / 8.A62-01	2.00	
2266.A	DEMONSTRATION / WORKSTATIONS	-	3'-0"	7'-0"	F	WD	PREFIN	F2-48	HM	PT	4 / 8.A62-01	2 / 8.A62-01	2.00	
2267.A	MANAGER	-	3'-0"	7'-0"	F	WD	PREFIN	F2-48	HM	PT	4 / 8.A62-01	2 / 8.A62-01	2.00	
2268.A	MANAGER	-	3'-0"	7'-0"	F	WD	PREFIN	F2-12	HM	PT	4 / 8.A62-01	2 / 8.A62-01	2.00	
2269.A	DEMONSTRATION / WORKSTATIONS	-	3'-3"	7'-7"	CW	-	-	-	-	-	-	-	5.00	DOOR & HARDWARE WITHIN CURTAIN WALL SYSTEM



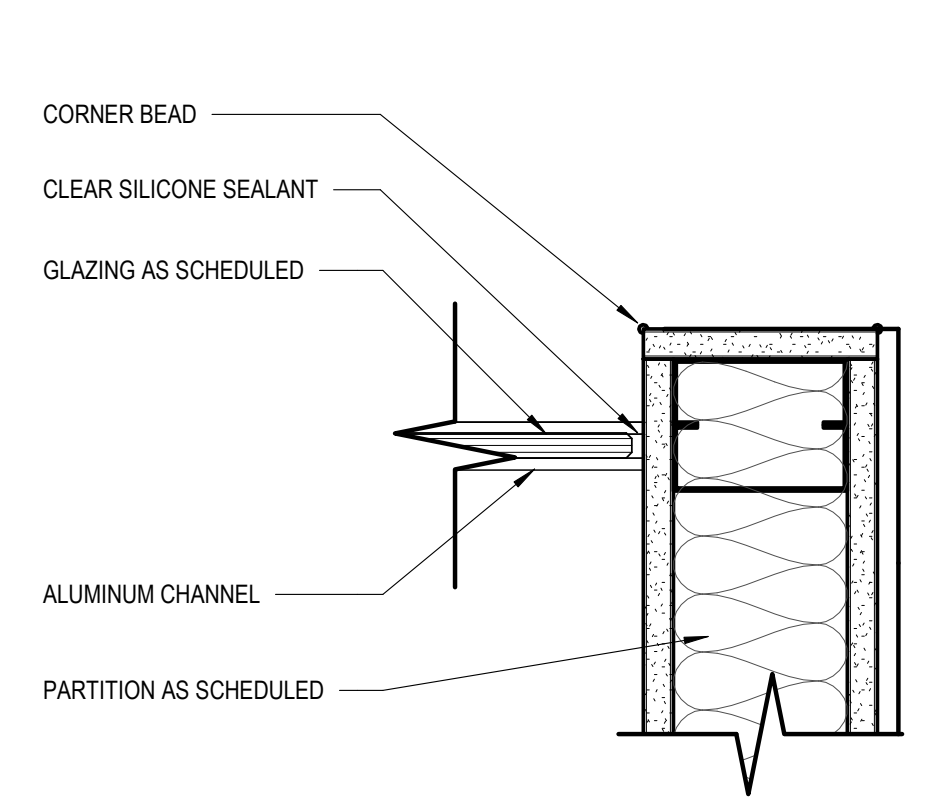
2 DETAIL - HM DOOR JAMB, TYP. SCALE 3" = 1'-0"

4 DETAIL - HM FRAME HEAD, TYP. SCALE 3" = 1'-0"

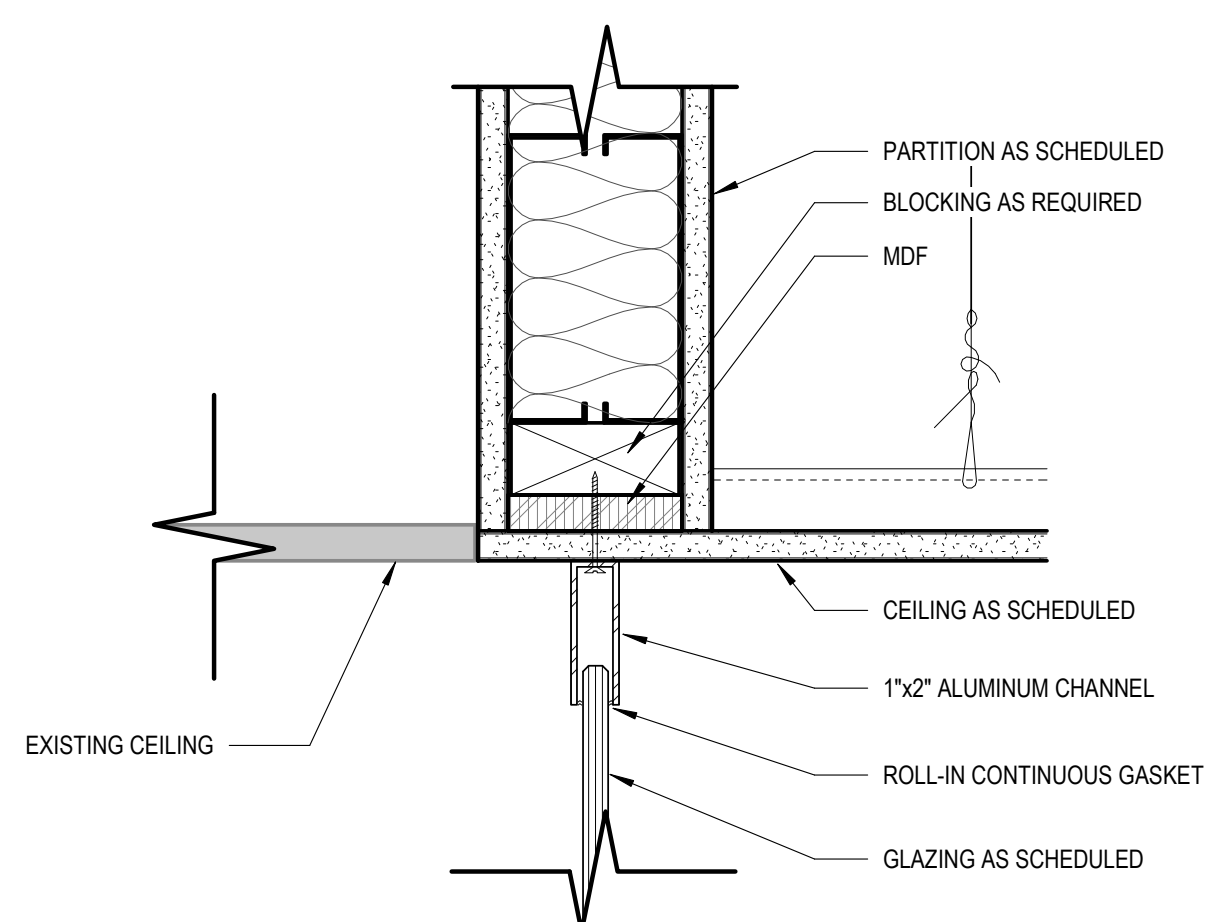
DOOR TYPES	DOOR SCHEDULE GENERAL NOTES
<p>FLUSH F</p> <p>NARROW LITE N</p>	<ol style="list-style-type: none"> GLAZING IN FIRE RESISTANCE RATED DOORS SHALL MATCH THE FIRE RESISTANCE RATING OF THE DOOR. ALL DOORS TO HAVE BOXED HEADERS UNLESS STEEL CHANNELS ARE INDICATED IN THE REMARKS COLUMN OF THE DOOR SCHEDULE OR UNLESS OTHERWISE INDICATED BY HEAD DETAIL. GLAZING IN DOORS SHALL BE CLEAR TEMPERED UNLESS NOTED OTHERWISE.

FRAME TYPES
<p>DOOR FRAME F1</p> <p>DOOR FRAME WITH SIDELITE F2-XX</p>

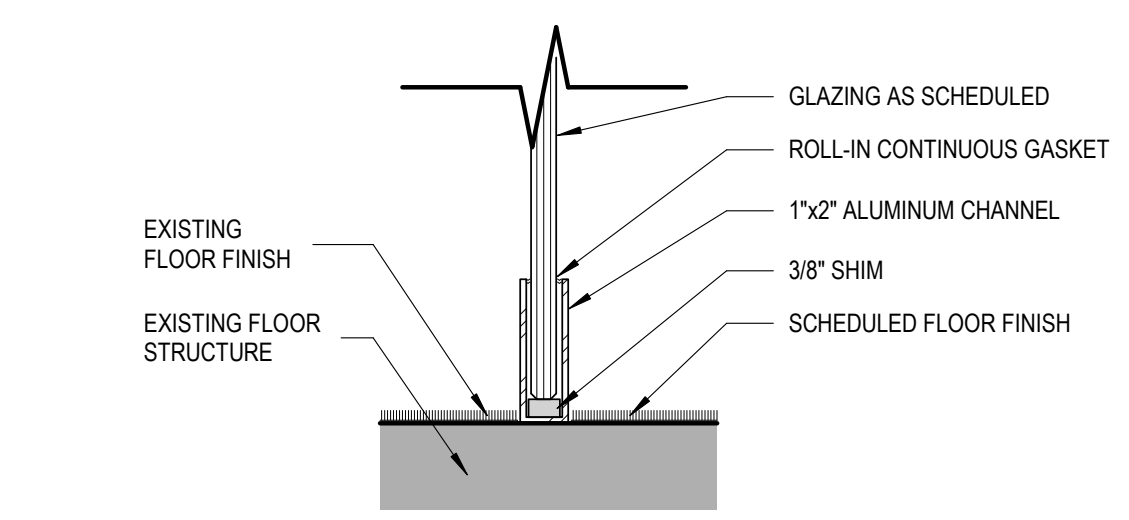
GLAZING SCHEDULE					
TAG	TYPE	MFR (BASIS OF DESIGN)	DESCRIPTION / COLOR	THK	COMMENTS
GL-1	LAMINATED	-	CLEAR	3/8"	
GL-2	VISION UNIT	GUARDIAN	CLEAR; TEMPERED	3/8"	



5 TYP PLAN DETAIL GLASS PARTITION SCALE 3" = 1'-0"



3 TYP HEAD DETAIL GLASS PARTITION SCALE 3" = 1'-0"



1 BASE DETAIL GLASS PARTITION SCALE 3" = 1'-0"

SPEC SECTION	MARK	BASIS OF DESIGN	MANUFACTURER	PRODUCT / STYLE	COLOR	TYPICAL LOCATIONS	NOTES
CASEWORK AND WOODWORK							
06 62 20	PL1	WILSONART		PLASTIC LAMINATE	KENSINGTON MAPLE 10776-60	TYPICAL BASE AND UPPER CABINETS	WOOD EFFECT
06 62 20	PL2	PIONITE		PLASTIC LAMINATE	AV971 MOONLIGHTING PAPER	WORK SURFACE COUNTER TOPS	
06 40 00	WD1	CHICAGO DOORWAYS		PLAIN SLICED WHITE MAPLE	MATCH EXISTING DOORS	DOORS	GARDALL FINISH TO MATCH SAMPLE N2759-18GL
06 61 17	SS1	AVONITE SURFACES		SOLID SURFACE	7842 SATIN	BREAK ROOM COUNTERTOPS	EASED EDGES
CEILING							
09 51 00	ACT1	CERTAINTEED		24" X 24" - SYMPHONY M BEVELED, WHITE CHANNEL SLOT SYSTEM		TYPICAL ACCUSTIC PANEL CEILING	
FLOORING AND BASE							
09 65 19	RT1	ARMSTRONG FLOORING		PARALLEL USA 12	HAVANA HEATHER JS262	18"x18" QUARTER TURN	PROVIDE MOISTURE MITIGATION ACCORDING TO TESTING PER SPEC
09 65 13	RB1	TARKEIT		JOHNSONITE STANDARD WALL BASE 4"	ARCHITECT TO SELECT FROM MANUF. FULL RANGE	TYPICAL THROUGHOUT	
CARPETS							
09 68 00	CPT1	SHAW CONTRACT		57202 ACTIVE ADVANCE TILE, 12"x48" MONOLITHIC	04555 STRATEGY	OFFICE FIELD	
09 68 00	CPT2	SHAW CONTRACT		57206 ACTIVE TURN TILE, 12"x48" MONOLITHIC	04555 STRATEGY	OFFICE ACCENT	
PAINTS							
09 91 00	PNT1	SHERWIN WILLIAMS			SW 7005 PURE WHITE	TYPICAL - WALLS & CEILINGS	
09 91 00	PNT2	SHERWIN WILLIAMS			SW 6779 LIQUID BLUE	ACCENT	
09 91 00	PNT3	SHERWIN WILLIAMS			SW 6710 MELANGE GREEN	ACCENT	
09 91 00	PNT4	BENJAMIN MOORE			BM 2135-30 NOCTURNAL GREY	DOOR FRAMES	
WINDOW SHADES							
12 24 00	WT1	DRAPER		E SCREEN - 3% OPEN	CHARCOAL/GREY	PERIMETER ROOMS	
OTHER							
08 87 00	GF1	3M		FASARA	MILKY WAY SH2MAML-1201	TYPICAL PRIVACY FILM AT TESTING	

PROJECT
ADJACENCIES RENOVATIONS PHASE 1
DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016

OAKTON COLLEGE

ISSUED FOR BID 23 SEPTEMBER 2024

KEY PLAN

ISSUE CHART

ISSUED FOR BID	23 SEP 24
DATE	
Job Number	021074.000
TITLE	

FINISH SCHEDULE, DOOR SCHEDULE, LITES AND DETAILS

SHEET NUMBER

8.A62-01

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FIRE PROTECTION GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING ALL EXISTING FIELD CONDITIONS PRIOR TO SUBMISSION OF HIS BID. CONTRACTOR SHALL DOCUMENT ELECTRONICALLY ACTUAL LOCATION AND ROUTING OF EXISTING SPRINKLER PIPING AND SPRINKLER HEADS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENGINEERING OF THE FIRE SUPPRESSION SYSTEM, INCLUDING PREPARATION OF WORKING PLANS, CALCULATIONS, AND FIELD TEST REPORTS. ENGINEERING SHALL BE PERFORMED BY A QUALIFIED LICENSED PROFESSIONAL ENGINEER WHO SHALL SEAL AND SIGN ALL WORKING PLANS, DETAILS AND CALCULATIONS.
- EACH SPRINKLER HEAD OUTLET WITHIN THE SPACE SHALL FEED A SINGLE SPRINKLER HEAD. MODIFY THE EXISTING SPRINKLER PIPING FOR PROVIDING WATER SUPPLY TO THE ADDITIONAL SPRINKLER HEADS ADDED AS REQUIRED PER NFPA 13 IN EXISTING AREAS WHERE NEW SPRINKLER PIPING IS INSTALLED AND/OR MODIFIED.
- ALL NEW MATERIAL AND EQUIPMENT SERVICES SHALL BE LISTED BY U.L. AND APPROVED BY F.M.
- IN THE FINISHED CEILING AREAS, SPRINKLER HEADS SHALL BE QUICK RESPONSE CONCEALED PENDENT TYPE WITH COVER PLATE COLOR TO BE SELECTED BY ARCHITECT. IN AREAS WITHOUT CEILING, SPRINKLER HEADS TO BE UPRIGHT OR SIDEWALL. ALL SIDE WALL OR UPRIGHT SPRINKLER HEADS SHALL BE PROVIDED WITH PROTECTIVE COVER. ALL UPRIGHT & SIDEWALL SPRINKLER HEADS AND PROTECTIVE COVER FINISHES & COLOR TO BE SELECTED BY THE ARCHITECT. ORIFICE SIZE, MAKE AND MODEL OF SPRINKLER HEADS SHALL MATCH WITH THE BUILDING SPRINKLERS RATED AT 175 PSI, BUT WHERE SYSTEM PRESSURES EXCEED 175 PSI, PROVIDE HIGH PRESSURE SPRINKLER HEADS. ACCEPTABLE MANUFACTURERS ARE: VICTAULIC, VIKING, TYCO, AND RELIABLE.
- MAINTAIN MINIMUM CLEARANCE OF 18 INCHES OR GREATER BETWEEN SPRINKLER HEAD DEFLECTOR AND THE TOP OF MATERIAL STORED BENEATH.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES AND MAKING ANY NECESSARY MODIFICATIONS TO HIS WORK AT NO ADDITIONAL COST, INCLUDING ALL OFFSETS.
- CONTRACTOR SHALL REMOVE EXISTING EQUIPMENT AND MATERIALS PERTAINING TO HIS CONTRACT AS SPECIFIED OR AS REQUIRED WHETHER SHOWN ON THE DRAWINGS OR NOT, TO PREPARE FOR THE NEW WORK. ANY COMPONENT OF THE EXISTING SYSTEM REQUIRING REPLACEMENT OR UPGRADE TO MEET CODES MUST BE REPLACED WITH NEW. REROUTE EXISTING PIPING, RELOCATE EXISTING SPRINKLER HEADS AND ADD NEW SPRINKLER HEADS TO ACCOMMODATE NEW WALLS, STRUCTURAL COMPONENTS AND/OR CHANGES MADE BY OTHER TRADES.
- CONTRACTOR SHALL INSTALL SPRINKLER SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13, IFC 2015 AND LOCAL BUILDING CODES.
- SUBMIT COORDINATED SHOP DRAWINGS TO ARCHITECT, LOCAL FIRE PREVENTION BUREAU AND OWNER'S INSURANCE UNDERWRITERS FOR REVIEW AND APPROVAL PRIOR TO THE INSTALLATION OF A FIRE SUPPRESSION SYSTEM. THE SHOP DRAWINGS SHALL INCLUDE AND SHOW THE BASIS OF COMPLIANCE WITH THE DESIGN DENSITY AND THE SPECIFIC ARRANGEMENT OF THE SYSTEM. THE DETAILS ON THE SHOP DRAWINGS SHALL INCLUDE HANGER LOCATIONS, EXISTING AND NEW PIPE SIZING AND ELEVATIONS, DUCTWORK, DIFFUSERS, REGISTERS, MECHANICAL EQUIPMENT, LIGHT FIXTURE AND SPRINKLER HEAD LOCATIONS AND MUST BE SUBMITTED PRIOR TO FABRICATION AND INSTALLATION. THE SHOP DRAWINGS SUBMITTAL SHALL BE SIGNED AND SEALED BY THE CONTRACTOR'S QUALIFIED LICENSED PROFESSIONAL ENGINEER. SUBMITTAL SHALL ALSO INCLUDE MANUFACTURER'S INSTALLING INSTRUCTIONS FOR ANY SPECIALLY LISTED EQUIPMENT INCLUDING DESCRIPTIONS, LIMITATIONS FOR ANY SPRINKLER DEVICES, AND FITTINGS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING SPRINKLER HEAD LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS. SPRINKLER HEAD LOCATIONS ON THE SHOP DRAWINGS ARE SUBJECT TO APPROVAL BY THE ARCHITECT.
- SPRINKLERS SHALL BE PLACED IN THE CENTER OF CEILING TILES IN BOTH DIRECTIONS.
- PROVIDE ACCESS PANELS FOR ALL VALVES, FLOW SWITCHES AND OTHER ITEMS REQUIRING SERVICE AND ACCESSIBILITY ABOVE NON-ACCESSIBLE CEILING.
- CONTRACTOR IS RESPONSIBLE TO SAW-CUT EXISTING WALLS, CORE FLOORS AND CEILINGS FOR INSTALLING NEW PIPING. ALL NEW PIPING PENETRATIONS SHALL BE PROPERLY SEALED WITH U.L. LISTED FIRE STOPPING MATERIALS TO MAINTAIN THE REQUIRED FIRE RESISTANCE RATING REGARDLESS IN THE EXPOSED CONSTRUCTION AREAS OR ABOVE DROPPED-CEILING AREAS.
- CONTRACTOR SHALL SIZE SPRINKLER PIPING HYDRAULICALLY IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13 2013 EDITION AND IFC 2015 UNLESS NOTED OTHERWISE. PROVIDE PERMANENT METAL PLACARD AT THE BASE OF EACH RISER, INDICATING THE DESIGN, AREA, FLOW AND PRESSURE REQUIRED FOR EACH SYSTEM.
- POOLING OF CUTTING OILS OR OTHER PETROLEUM BASED PRODUCTS IN THE SPRINKLERS MUST BE AVOIDED. THEREFORE, ALWAYS CUT AND THREAD PIPE WITHOUT THE SPRINKLER PIPING BEING ATTACHED AND BE SURE TO CHECK AND DRAIN THE DROPS OF ANY EXCESSIVE OIL PRIOR TO INSTALLATION OF THE SPRINKLERS.
- ALL PIPING TO BE INSTALLED ABOVE ESTABLISHED FINISHED CEILING AND TO RUN CONCEALED TO FOLLOW THE ARCHITECT'S DESIGN INTENTION. ANY PIPING THAT MUST RUN EXPOSED SHALL BE PAINTED WITH COLOR SELECTED BY THE ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- CONTRACTOR MUST NOTIFY ARCHITECT, OWNER AND LOCAL FIRE DEPARTMENT IN WRITING MINIMUM 5 BUSINESS DAYS PRIOR TO ANY SHUTDOWN OF SYSTEM.
- CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS FOR ALL PIPING AFTER INCORPORATING ALL THE CHANGES MADE IN FIELD.
- ANY EXISTING SPRINKLER PIPING NO LONGER USED OR EXISTING ABANDONED PIPING, HANGERS, SUPPORTS AND RELATED APPURTENANCES SHALL BE REMOVED.
- CONTRACTOR SHALL COORDINATE PIPING RUNS AND DROPS TO CEILING WITH ALL OTHER TRADES AND OFFSET ROUTING TO AVOID DUCTWORK, PIPING, MECHANICAL EQUIPMENT & ELECTRICAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION AND ROUTING OF THE EXISTING PIPING
- ALL PERMITS, FEES, LICENSES, APPROVALS, AND OTHER ARRANGEMENTS FOR WORK SHALL BE OBTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR AFTER COMPLETION AGAINST ALL DEFECTS OF MATERIAL, EQUIPMENT, AND WORKMANSHIP.
- PROVIDE COMPETENT OPERATING TECHNICIAN TO INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF THE INSTALLED EQUIPMENT.
- THE DRAWINGS INDICATE THE ZONING, GENERAL CHARACTER, AND LOCATION OF WORK INCLUDED, BUT HAVING DETAILS OMITTED WHICH ARE TO BE PROVIDED WITHOUT EXTRA COST.
- STEEL PIPE WITH WALL THICKNESS LESS THAN SCHEDULE 40 SHALL NOT BE JOINED BY THREADED FITTINGS. ALL PIPE SHALL BE MARKED CONTINUOUSLY ALONG ITS LENGTH BY THE MANUFACTURER IN SUCH A WAY AS TO PROPERLY IDENTIFY THE TYPE OF PIPE.
- FITTINGS SHALL BE RATED FOR 175 PSI.
- SUPPORT NEW WATER EXTINGUISHING PIPING IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-13. WHEN THE MAXIMUM PRESSURE AT THE SPRINKLER EXCEEDS 100 PSI, THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER IN A PENDENT POSITION OR DROP NIPPLE OR ARM/OVER AND THE LAST HANGER ON BRANCH LINE SHALL NOT BE GREATER THAN 12 INCHES.

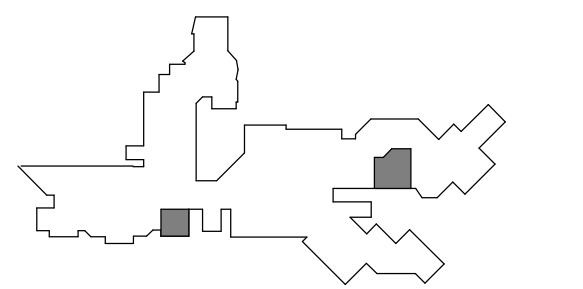
**PROJECT
ADJACENCIES
RENOVATIONS**

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016



ISSUED FOR BID 23 SEPTEMBER 24

KEY PLAN



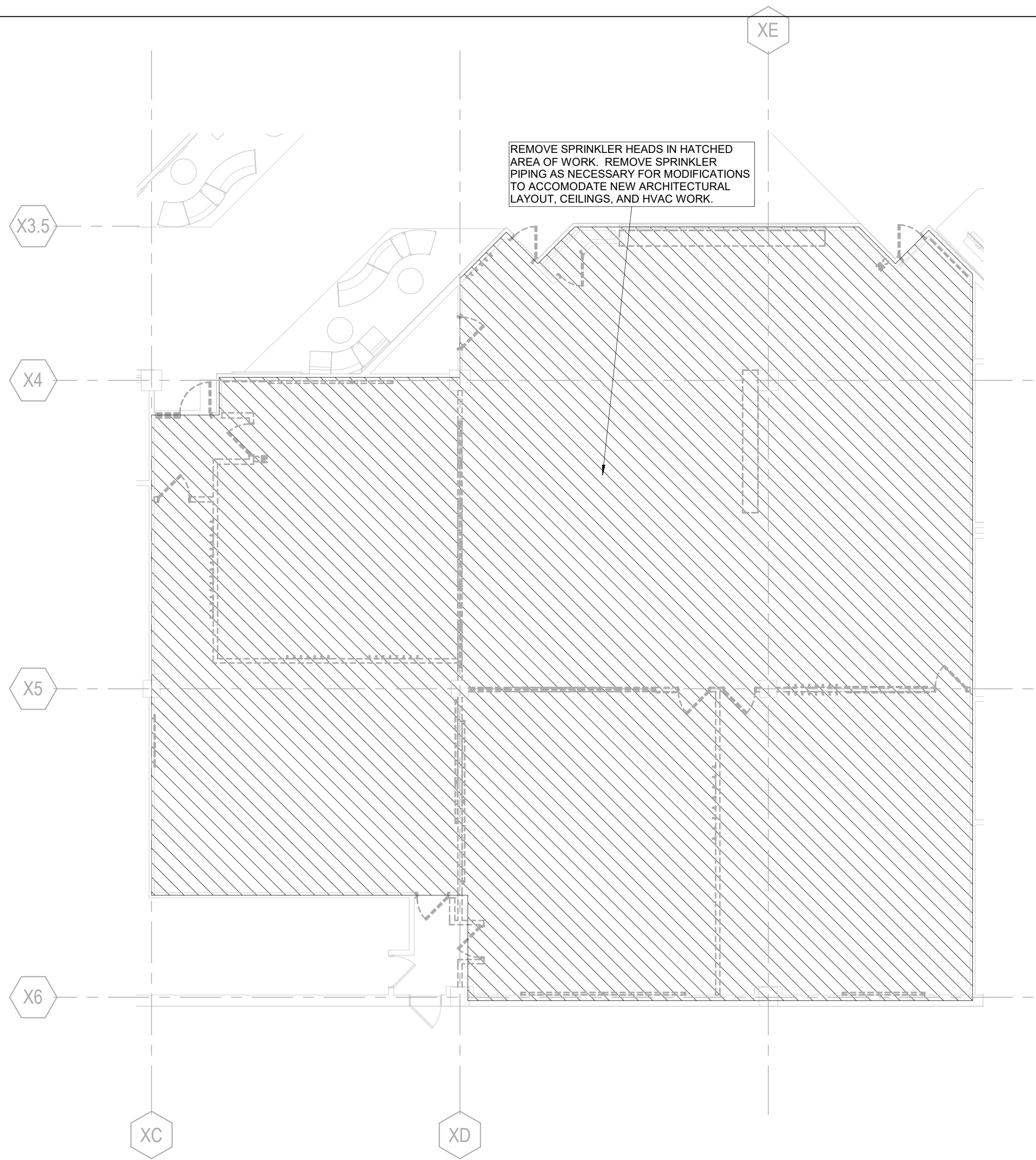
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NO.	ISSUED FOR BID	23 SEP 24
DATE	DATE	DATE
Job Number	021074 000	TITLE

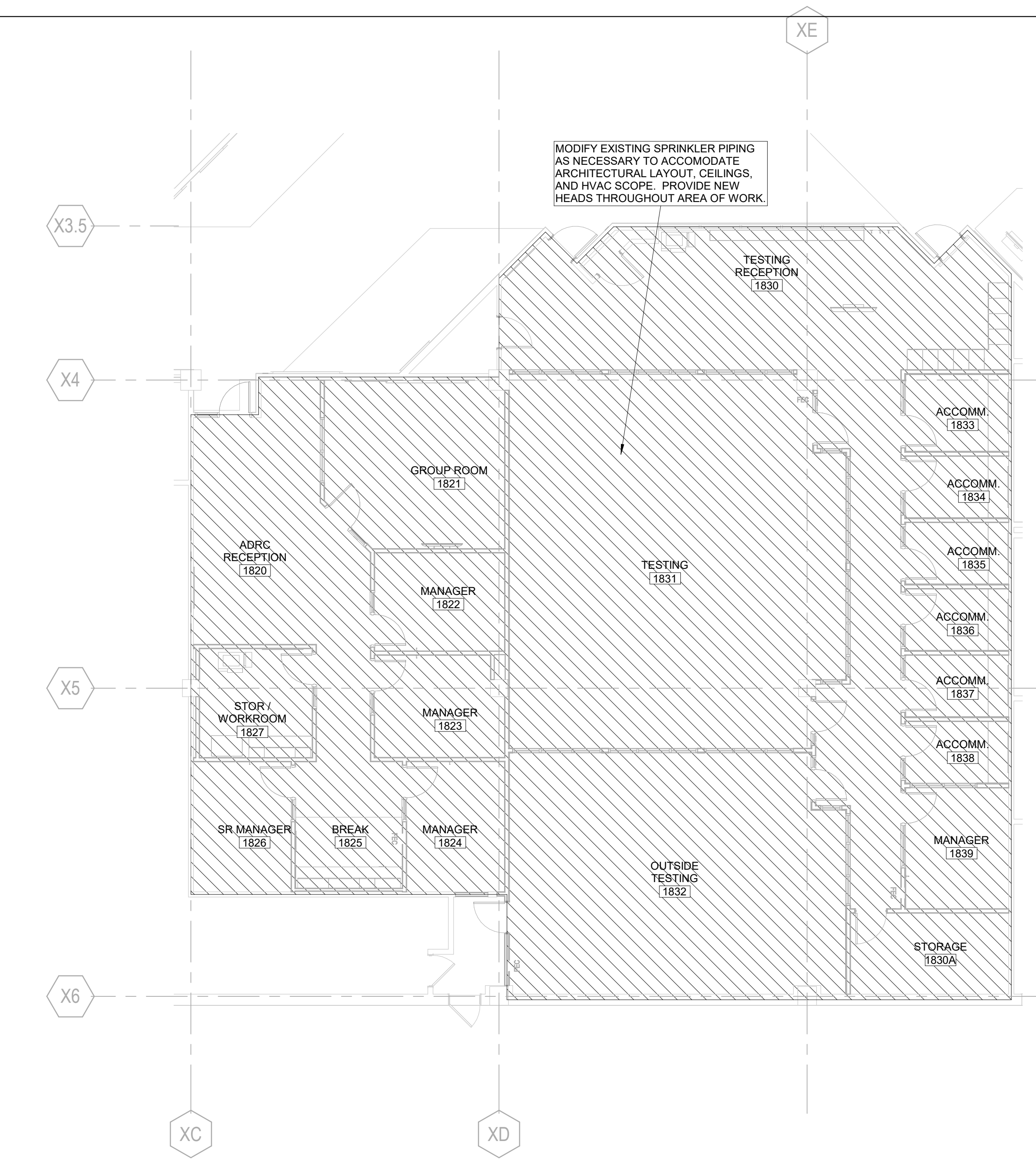
**FIRE PROTECTION
PLANS - PHASE 1**

SHEET NUMBER

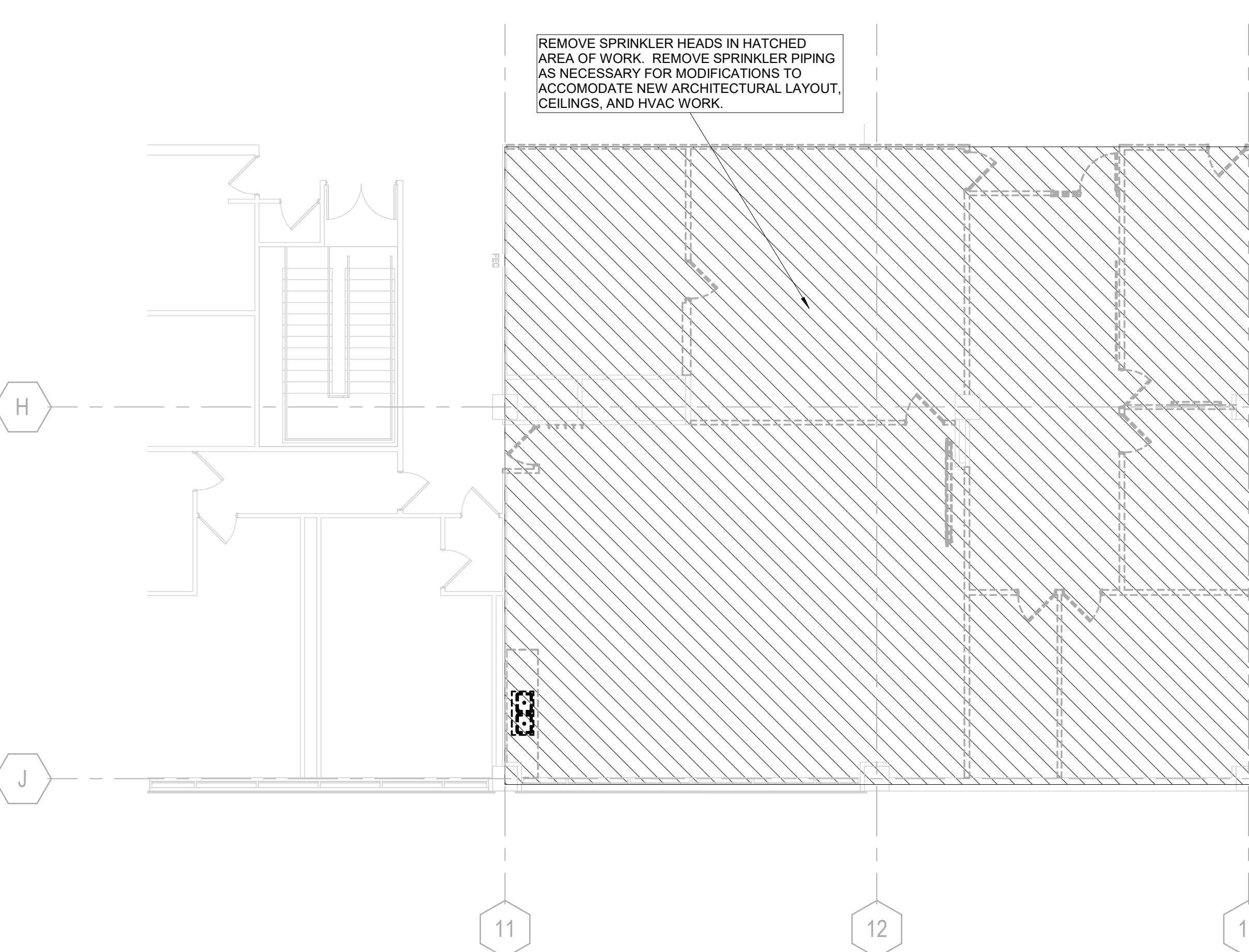
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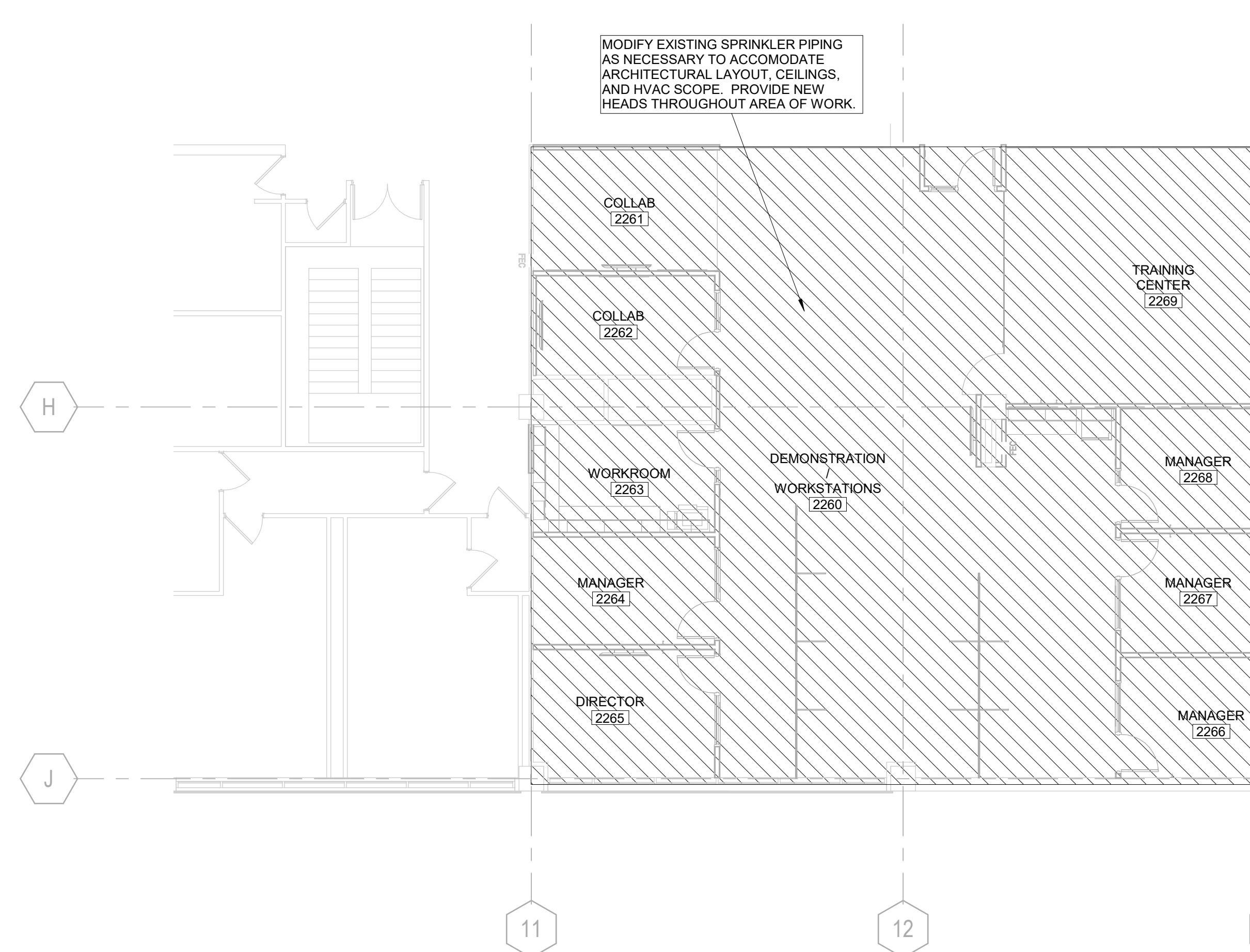
1 LEVEL 01 FIRE PROTECTION DEMOLITION PLAN - ADRC AND TESTING
1/8" = 1'-0"



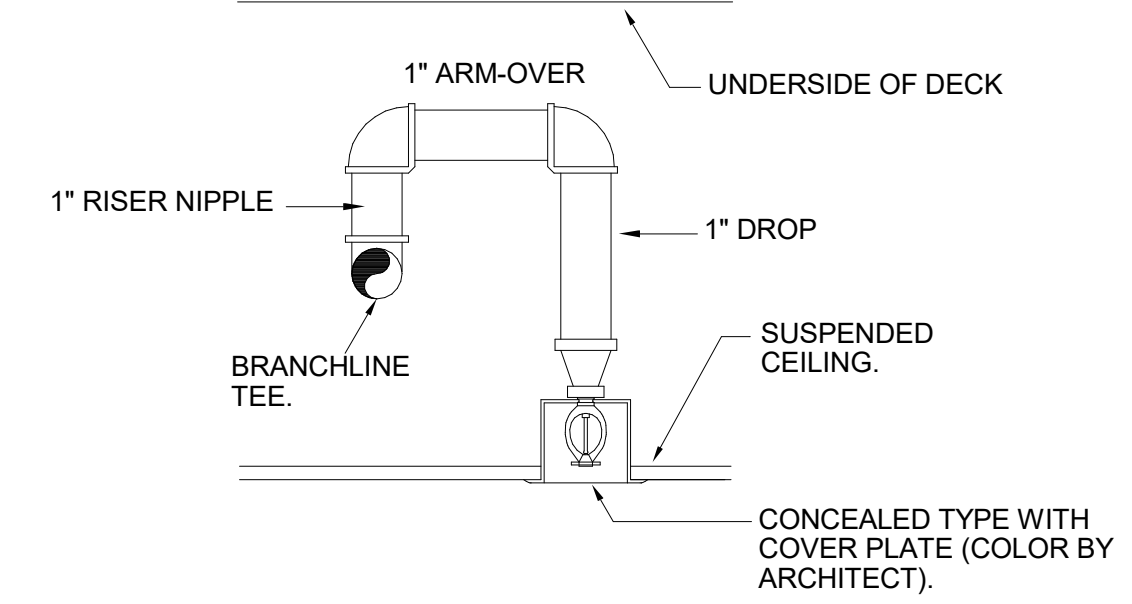
2 LEVEL 01 FIRE PROTECTION PLAN - ADRC AND TESTING
1/8" = 1'-0"



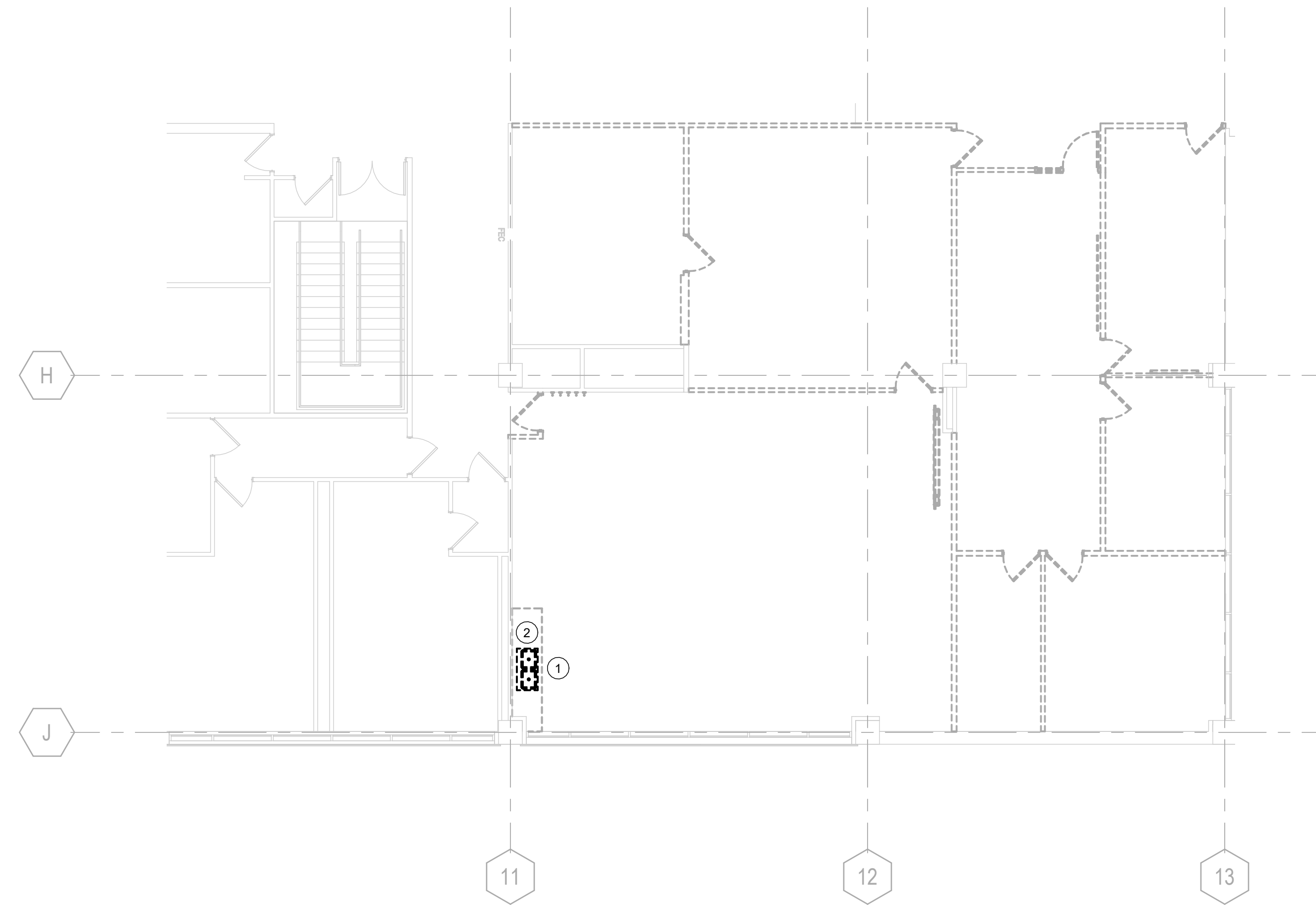
3 LEVEL 02 FIRE PROTECTION DEMOLITION PLAN - TECH HUB
1/8" = 1'-0"



4 LEVEL 02 FIRE PROTECTION PLAN - TECH HUB
1/8" = 1'-0"



**NIPPLE & REDUCING ELBOW
SUPPLYING SPRINKLER HEAD**
NO SCALE



3 LEVEL 02 PLUMBING DEMOLITION PLAN - TECH HUB
1/8" = 1'-0"

GENERAL PLUMBING NOTES:

- EXISTING CONDITIONS:**
1. VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO BIDDING. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
 2. MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS AND EQUIPMENT, BOTH NEW AND EXISTING, AS MAY BE REQUIRED BY THESE ALTERATIONS AND ADDITIONS.
 3. DISCONNECT AT SOURCE AND REMOVE EXISTING PLUMBING FIXTURES, PIPING, HANGERS, ANCHORS, AND OTHER ITEMS WHICH ARE RENDERED OBSOLETE BY THESE ALTERATIONS AND ADDITIONS.
 4. THE OWNER RESERVES THE RIGHT TO SALVAGE ANY EQUIPMENT OR MATERIALS REMOVED BY THE CONTRACTOR. SALVAGED EQUIPMENT WILL BE IDENTIFIED & TAGGED BY OWNER PRIOR TO START OF DEMOLITION AND DIRECTION WILL BE GIVEN TO THE CONTRACTOR FOR TURN OVER OF THIS EQUIPMENT AT THE SCHOOL LOADING DOCK. COORDINATE WITH OWNER.
 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE EXISTING BUILDING IN OPERATION AT ALL TIMES DURING OCCUPIED PERIOD. IF IT IS ABSOLUTELY NECESSARY TO SHUT DOWN THE FACILITY AT ANY TIME, THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND MAKE ARRANGEMENTS TO DO SO AT THE OWNER'S CONVENIENCE DURING OFF HOURS. CONTRACTOR SHALL PROVIDE OWNER ADVANCE NOTICE IN WRITING MINIMUM 3 BUSINESS DAYS PRIOR TO SHUT DOWN.
 6. COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS.
 7. ALL CUTTING AND PATCHING AS REQUIRED FOR WORK TO BE BY THE CONTRACTOR. REFER TO SPECIFICATIONS.
 8. WHERE THE EXISTING PIPING SERVING ANY EXISTING FIXTURE IN AREA OF EXISTING BUILDING NOT TO BE ALTERED IS INTERFERED WITH, CONTRACTOR SHALL REROUTE AND RECONNECT ALL SUCH PIPING WITH PRIOR APPROVAL FROM THE ENGINEER.

INSPECTING EXISTING BUILDING:

1. THE CONTRACTORS SHALL VISIT AND INSPECT THE EXISTING BUILDING AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ACTUAL JOB CONDITIONS PRIOR TO BIDDING. NO EXTRAS WILL BE ALLOWED FOR WORK WHICH MIGHT HAVE BEEN REASONABLY FORESEEN BY AN INSPECTION OF THESE PREMISES.
2. WHILE THE SIZE AND LOCATION OF NEW WORK AND EQUIPMENT IN THE EXISTING BUILDING HAS BEEN INDICATED ON THE DRAWINGS AS ACCURATELY AS POSSIBLE, CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID EXISTING DUCTS, PIPINGS, CONDUITS, AND BEAMS NOT SHOWN ON PLANS. CONTRACTOR SHALL ADAPT HIS WORK TO MEET ALL ACTUAL CONDITIONS ON THE EXISTING PREMISES.
3. CONTRACTOR SHALL INSPECT THE PREMISES AND MAKE A DETAILED EXAMINATION OF ALL LOCATIONS WHERE NEW WORK IS TO BE INSTALLED AND SHALL EXAMINE EXISTING PIPING, CONDUITS, STRUCTURAL SUPPORTING BEAMS, ETC.

PLUMBING DEMOLITION NOTES:

- ① REMOVE LABORATORY SINK COMPLETE. COORDINATE REMOVAL OF ASSOCIATED CASEWORK WITH ARCHITECTURAL. REMOVE DRAIN AND VENT PIPING BACK TO SOURCE IN WALL ABOVE CEILING, AND/OR BELOW FLOOR AND CAP. REMOVE DOMESTIC WATER PIPING BACK TO ACTIVE SOURCE AND CAP. FIELD VERIFY EXISTING PIPING AND EXTENT OF DEMOLITION NECESSARY. SAWCUT AND PATCH WALLS, FLOORS, ETC. AS NECESSARY FOR DEMOLITION OF PLUMBING. COORDINATE WITH ARCHITECTURAL FOR PATCHING OF ALL SURROUNDING MATERIALS.
- ② REMOVE LABORATORY GAS VALVE COMPLETE. REMOVE BACK TO ACTIVE SOURCE AND CAP. FIELD VERIFY EXISTING PIPING AND EXTENT OF DEMOLITION NECESSARY. SAWCUT AND PATCH WALLS, FLOORS, ETC. AS NECESSARY FOR DEMOLITION OF GAS PIPING. COORDINATE WITH ARCHITECTURAL FOR PATCHING OF ALL SURROUNDING MATERIALS.

PROJECT

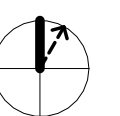
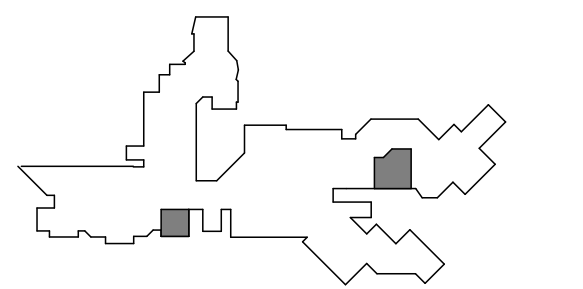
ADJACENCIES RENOVATIONS

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016



ISSUED FOR BID 23 SEPTEMBER 24

KEY PLAN



ISSUE CHART

DATE	ISSUE	DATE
23 SEP 24	ISSUE	23 SEP 24
Job Number	021074.000	TITLE

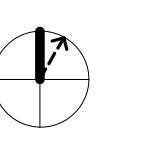
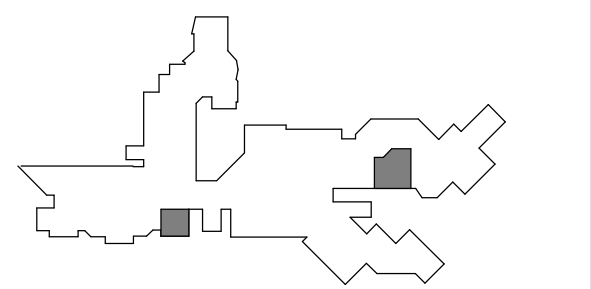
PLUMBING DEMOLITION PLAN - PHASE 1

SHEET NUMBER

P04-01

ISSUED FOR BID 23 SEPTEMBER 24

KEY PLAN



ISSUE CHART

ISSUED FOR BID	23 SEP 24
DATE	DATE
Job Number	021074 000
TITLE	

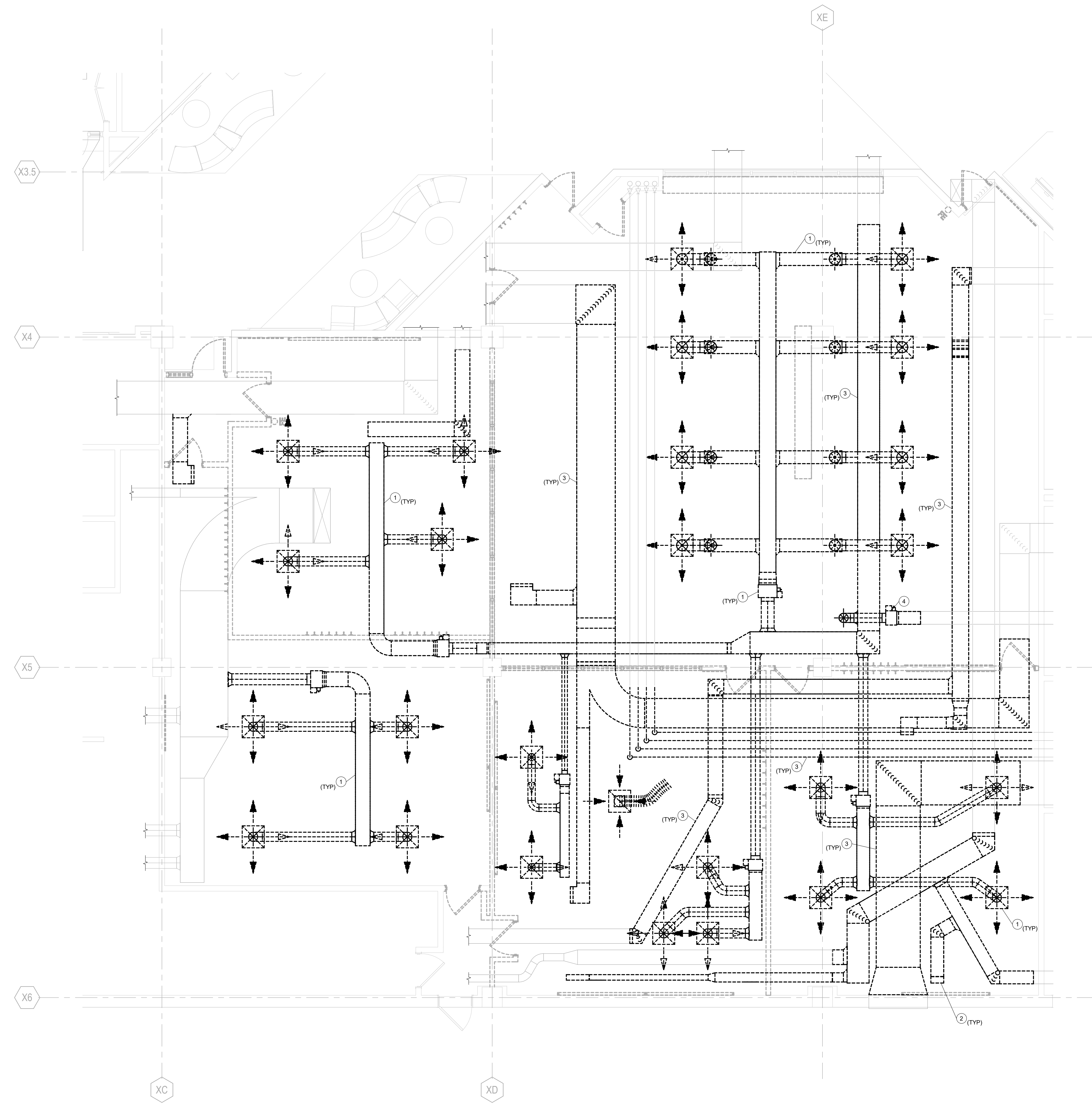
**MECHANICAL
DEMOLITION PLAN -
PHASE 1**

SHEET NUMBER

M04-01

MECHANICAL DEMOLITION NOTES:

- 1 REMOVE ALL AIR DEVICES, VAV BOXES, LOW PRESSURE DUCTWORK, AND VAV BRANCH DUCTS SERVING AREA OF WORK AS INDICATED. FIELD VERIFY ALL EXISTING CONDITIONS AND DEMOLITION REQUIRED. PATCH/CAAP ALL EXISTING TO REMAIN DUCTS AS REQUIRED. REMOVE ALL ASSOCIATED HARDWARE, CONTROLS, HANGERS, ETC. FOR A COMPLETE REMOVAL. PROTECT AND MAINTAIN ALL REMOVED VAVS AND CONTROLS FOR TURNOVER TO OWNER.
- 2 REMOVE PERIMETER AIR DEVICES ALONG EXTERIOR WALLS. REMOVE DUCT BRANCHES AS NECESSARY FOR NEW WORK. MAINTAIN REMAINING DUCTS FOR RECONNECTION TO NEW AIR DEVICES. PATCH/CAAP ALL EXISTING TO REMAIN DUCTS AS REQUIRED.
- 3 FIELD VERIFY ROUTING LOCATIONS AND HEIGHTS OF ALL EXISTING DUCTS AND HYDRONIC PIPING. DEMOLISH AS NECESSARY FOR CONSTRUCTION OF NEW ARCHITECTURAL WALLS AND CEILINGS. PATCH/CAAP ALL EXISTING TO REMAIN ITEMS AS REQUIRED. REROUTE AS NECESSARY FOR FRAMING OF WALLS UP TO STRUCTURE ABOVE AND INSTALLATION OF ALL NEW DUCTS, VAVS, LIGHTING, ETC. COORDINATE WITH ARCHITECTURAL FOR EXTENT OF REROUTE NECESSARY FOR INSTALLATION OF ALL NEW WORK.
- 4 RELOCATE EXISTING VAV AS NECESSARY FOR INSTALLATION OF NEW WORK AND COORDINATION OF VAV SERVICE CLEARANCE. FIELD VERIFY EXTEND OF RELOCATION NECESSARY. MODIFY DUCTS, WIRING, ETC. AS NECESSARY FOR RELOCATION.

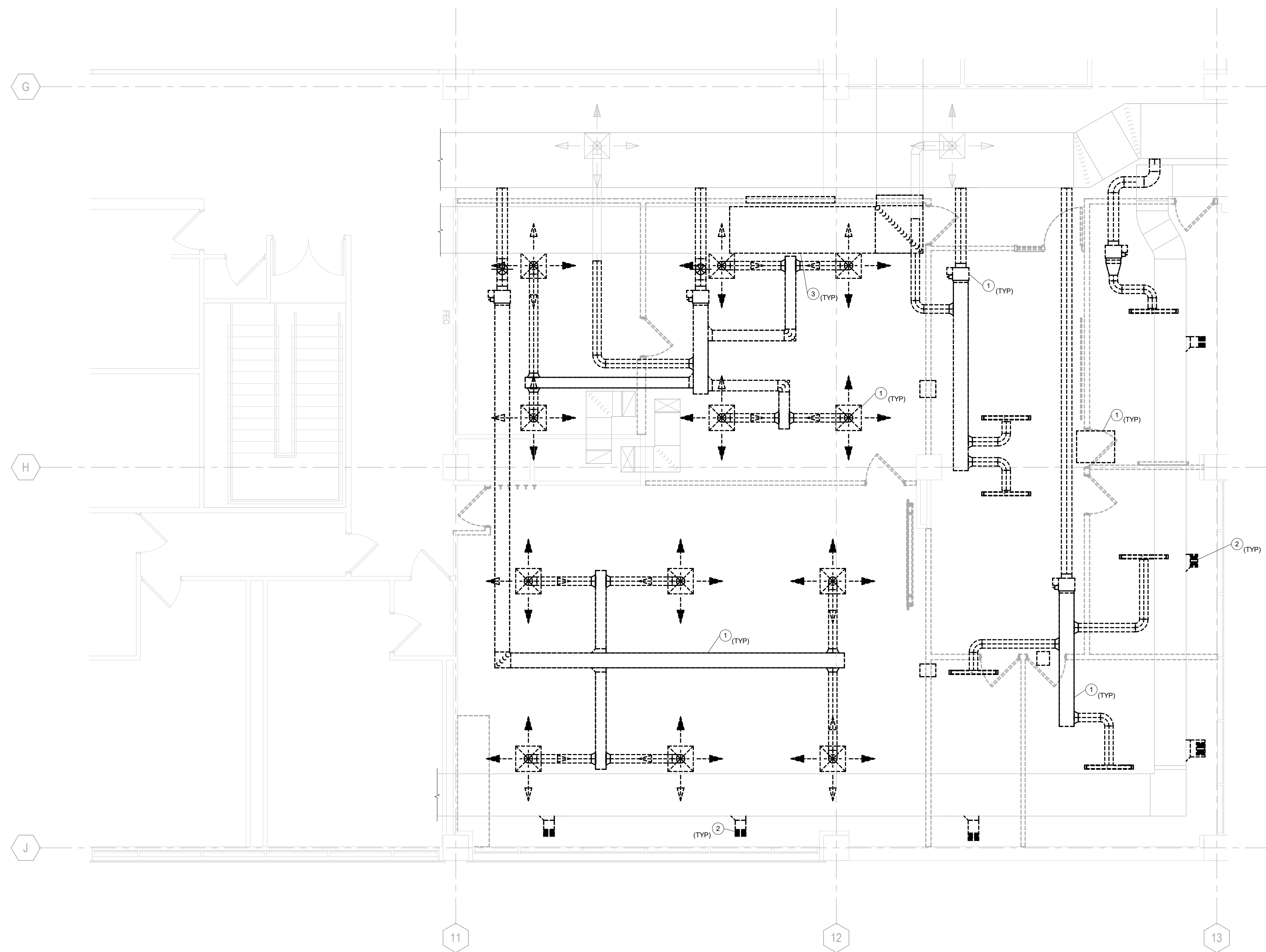


1 LEVEL 01 MECHANICAL DEMOLITION PLAN - ADRC AND TESTING
1/4" = 1'-0"

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MECHANICAL DEMOLITION NOTES:

- 1 REMOVE ALL AIR DEVICES, VAV BOXES, LOW PRESSURE DUCTWORK, AND VAV BRANCH DUCTS SERVING AREA OF WORK AS INDICATED. FIELD VERIFY ALL EXISTING CONDITIONS AND DEMOLITION REQUIRED. PATCH/CAP ALL EXISTING TO REMAIN DUCTS AS REQUIRED. REMOVE ALL ASSOCIATED HARDWARE, CONTROLS, HANGERS, ETC. FOR A COMPLETE REMOVAL. PROTECT AND MAINTAIN ALL REMOVED VAVS AND CONTROLS FOR TURNOVER TO OWNER.
- 2 REMOVE PERIMETER AIR DEVICES ALONG EXTERIOR WALLS. REMOVE DUCT BRANCHES AS NECESSARY FOR NEW WORK. MAINTAIN REMAINING DUCTS FOR RECONNECTION TO NEW AIR DEVICES. PATCH/CAP ALL EXISTING TO REMAIN DUCTS AS REQUIRED.
- 3 FIELD VERIFY ROUTING LOCATIONS AND HEIGHTS OF ALL EXISTING DUCTS. DEMOLISH AS NECESSARY FOR CONSTRUCTION OF NEW ARCHITECTURAL WALLS AND CEILINGS. PATCH/CAP ALL EXISTING TO REMAIN DUCTS AS REQUIRED. REROUTE AS NECESSARY FOR FRAMING OF WALLS UP TO STRUCTURE ABOVE AND INSTALLATION OF ALL NEW DUCTS, VAVS, LIGHTING, ETC. COORDINATE WITH ARCHITECTURAL FOR EXTENT OF REROUTE NECESSARY FOR INSTALLATION OF ALL NEW WORK.



1 LEVEL 02 MECHANICAL DEMOLITION PLAN - TECH HUB
1/4" = 1'-0"

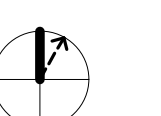
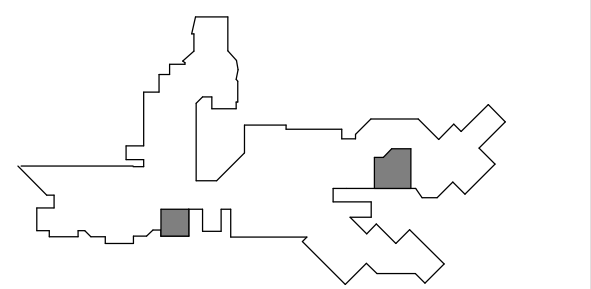
PROJECT
ADJACENCIES
RENOVATIONS

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016



ISSUED FOR BID 23 SEPTEMBER 24

KEY PLAN



ISSUE CHART

ISSUED FOR BID	23 SEP 24
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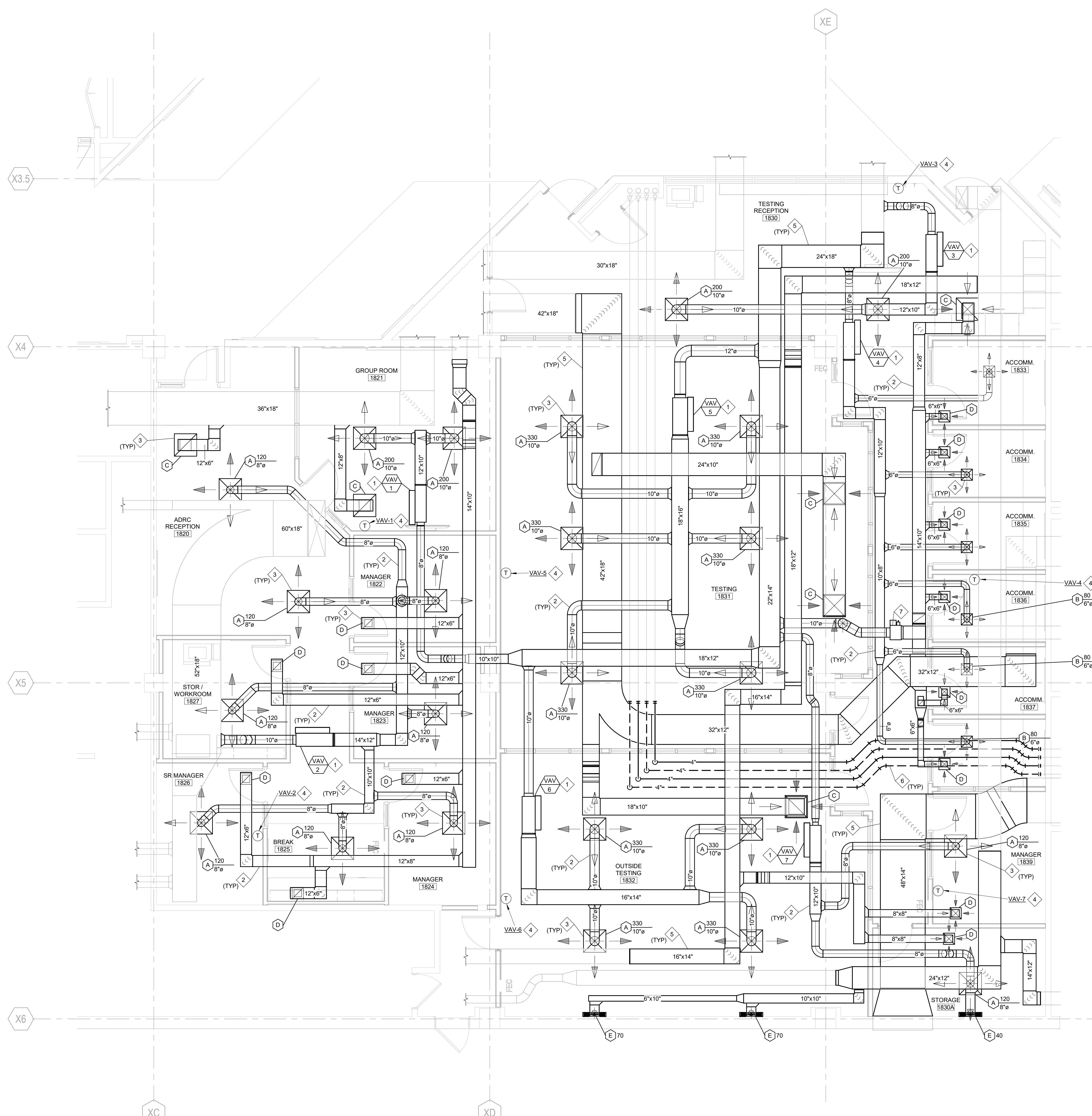
MECHANICAL
DEMOLITION PLAN -
PHASE 1

SHEET NUMBER

M04-02

MECHANICAL INSTALLATION NOTES:

- 1 PROVIDE VAV BOX WITH ELECTRIC REHEAT COMPLETE WITH ALL HARDWARE, SUPPORTS, AND CONTROLS. INSTALL PER ALL MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL LOCATION AND MOUNTING WITH ALL OTHER TRADES AND EXISTING CONDITIONS. MAINTAIN ALL CLEARANCES.
- 2 PROVIDE DUCTWORK AS INDICATED. COORDINATE FINAL ROUTING WITH ALL OTHER TRADES AND EXISTING CONDITIONS. FIELD VERIFY LOCATION AND ORIENTATION OF ALL CONNECTIONS TO EXISTING. PROVIDE BALANCING DAMPERS AT ACCESSIBLE LOCATION NEAR ALL BRANCH TAKEOFFS FOR BALANCING OF SYSTEM. NOT ALL EXISTING UTILITIES (PIPING, CONDUIT, ETC.) ARE SHOWN. COORDINATE ROUTING WITH ALL EXISTING CONDITIONS.
- 3 PROVIDE AIR DEVICES AS INDICATED. COORDINATE CEILING TYPE AND MOUNTING WITH ARCHITECTURAL. INSTALL PER ALL MANUFACTURER RECOMMENDATIONS. BALANCE TO CFMS INDICATED. BALANCE RETURN GRILLES FOR NEUTRAL SPACE BALANCE.
- 4 PROVIDE ROOM TEMPERATURE SENSOR AS INDICATED. COORDINATE LOCATION WITH ALL SPACE FINISHES AND FURNITURE. COORDINATE FINAL LOCATION AND TYPE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- 5 RE-ROUTE EXISTING DUCTS AS NECESSARY FOR FRAMING OF NEW WALLS AND COORDINATION WITH ALL NEW WORK. FIELD VERIFY ALL SIZES. FIELD VERIFY EXTENT OF RE-ROUTE NECESSARY AND LOCATIONS OF ALL CONNECTIONS TO EXISTING. COORDINATE TIMING AND DURATION OF ALL SERVICE INTERRUPTIONS TO ALL AFFECTED AREAS OF BUILDING WITH FACILITIES TEAM.
- 6 RE-ROUTE EXISTING HYDRONIC PIPING AS NECESSARY FOR FRAMING OF NEW WALLS AND COORDINATION WITH ALL NEW WORK. FIELD VERIFY ALL SIZES. FIELD VERIFY EXTENT OF RE-ROUTE NECESSARY AND LOCATIONS OF ALL CONNECTIONS TO EXISTING. COORDINATE TIMING AND DURATION OF ALL SERVICE INTERRUPTIONS TO ALL AFFECTED AREAS OF BUILDING WITH FACILITIES TEAM. PROVIDE DRAIN CONNECTIONS AND AIR VENTS AT ALL LOW AND HIGH POINTS CREATED BY FIELD COORDINATE RE-ROUTE.
- 7 RELOCATE EXISTING VAV AS NECESSARY FOR INSTALLATION OF NEW WORK AND COORDINATION OF VAV SERVICE CLEARANCE. FIELD VERIFY EXTENT OF RELOCATION NECESSARY. MODIFY DUCTS, WIRING, ETC. AS NECESSARY FOR RELOCATION.

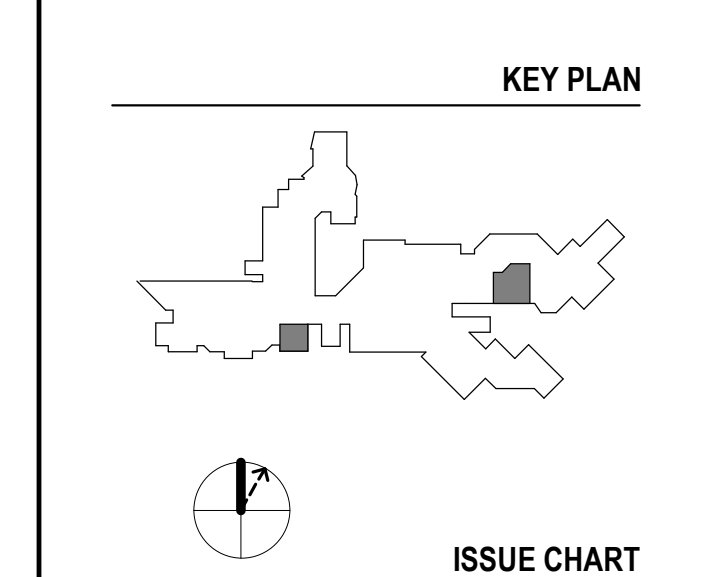


PROJECT
ADJACENCIES RENOVATIONS

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016

Oakton College
OAKTON COLLEGE

ISSUED FOR BID 23 SEPTEMBER 24



ISSUED FOR BID	23 SEP 24
DATE	DATE
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MECHANICAL PLAN - PHASE 1

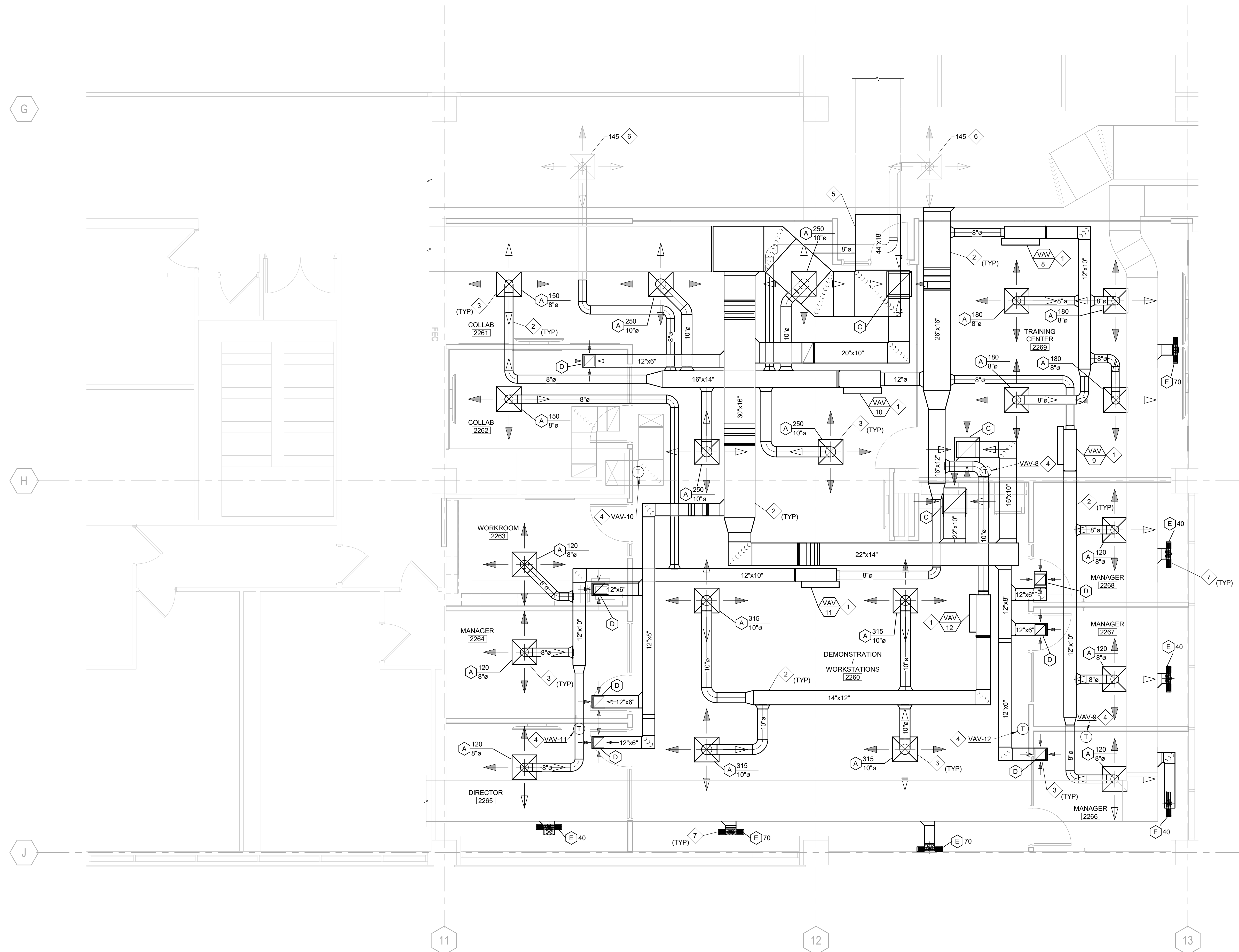
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M10-01

2 LEVEL 01 MECHANICAL PLAN - ADRC AND TESTING
1/4" = 1'-0"

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MECHANICAL INSTALLATION NOTES:

- 1 PROVIDE VAV BOX WITH ELECTRIC REHEAT COMPLETE WITH ALL HARDWARE, SUPPORTS, AND CONTROLS. INSTALL PER ALL MANUFACTURER RECOMMENDATIONS. COORDINATE FINAL LOCATION AND MOUNTING WITH ALL OTHER TRADES AND EXISTING CONDITIONS. MAINTAIN ALL CLEARANCES.
- 2 PROVIDE DUCTWORK AS INDICATED. COORDINATE FINAL ROUTING WITH ALL OTHER TRADES AND EXISTING CONDITIONS. FIELD VERIFY LOCATION AND ORIENTATION OF ALL CONNECTIONS TO EXISTING. PROVIDE BALANCING DAMPERS AT ACCESSIBLE LOCATION NEAR ALL BRANCH TAKEOFFS FOR BALANCING OF SYSTEM. NOT ALL EXISTING UTILITIES (PIPING, CONDUIT, ETC.) ARE SHOWN. COORDINATE ROUTING WITH ALL EXISTING CONDITIONS.
- 3 PROVIDE AIR DEVICES AS INDICATED. COORDINATE CEILING TYPE AND MOUNTING WITH ARCHITECTURAL. INSTALL PER ALL MANUFACTURER RECOMMENDATIONS. BALANCE TO CFMS INDICATED. BALANCE RETURN GRILLES FOR NEUTRAL SPACE BALANCE.
- 4 PROVIDE ROOM TEMPERATURE SENSOR AS INDICATED. COORDINATE LOCATION WITH ALL SPACE FINISHES AND FURNITURE. COORDINATE FINAL LOCATION AND TYPE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- 5 RE-ROUTE EXISTING RETURN DUCT AS NECESSARY FOR FRAMING OF NEW WALLS AND COORDINATION WITH ALL NEW WORK. FIELD VERIFY ALL SIZES. FIELD VERIFY EXTENT OF RE-ROUTE NECESSARY AND LOCATIONS OF ALL CONNECTIONS TO EXISTING. COORDINATE TIMING AND DURATION OF ALL SERVICE INTERRUPTIONS TO ALL AFFECTED AREAS OF BUILDING WITH FACILITIES TEAM.
- 6 MAINTAIN EXISTING SUPPLY AIR DEVICE IN CORRIDOR. CLEAN THOROUGHLY FOR REUSE. MODIFY BRANCH DUCTS AS NECESSARY AND CONNECT TO NEW SUPPLY DUCTWORK AS INDICATED. FIELD VERIFY BRANCH SIZES. REBALANCE TO CFM INDICATED.
- 7 PROVIDE PERIMETER SLOT DIFFUSER AS INDICATED. COORDINATE FINAL LOCATION AND MOUNTING WITH ARCHITECTURAL. PROVIDE WITH PLENUM AND CONNECT TO EXISTING SUPPLY MAIN. BALANCE TO CFM INDICATED.



1 LEVEL 02 MECHANICAL PLAN - TECH HUB
1/4" = 1'-0"

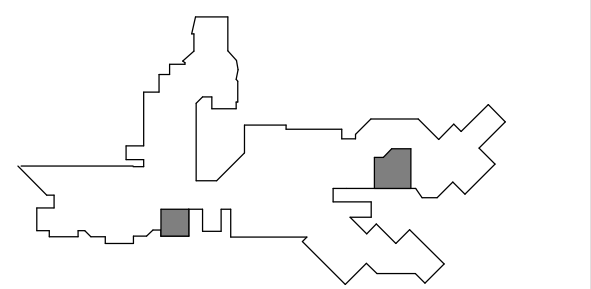
PROJECT
ADJACENCIES RENOVATIONS

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016



ISSUED FOR BID 23 SEPTEMBER 24

KEY PLAN



ISSUE CHART

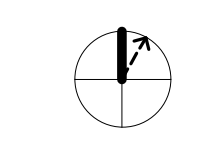
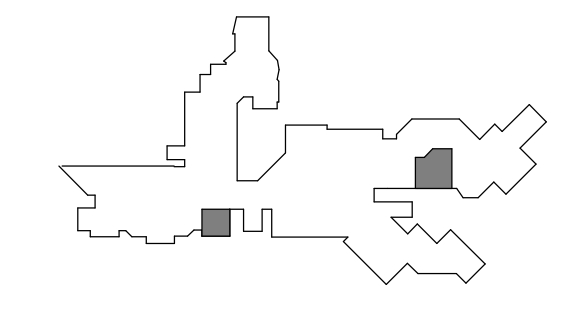


ISSUED FOR BID	23 SEP 24
DATE	DATE
Job Number	021074 000
TITLE	

MECHANICAL PLAN - PHASE 1

SHEET NUMBER

M10-02



ISSUED FOR BID	23 SEP 24
DATE	
Job Number	021074 000
TITLE	

**GENERAL MECHANICAL
NOTES**

SHEET NUMBER

M20-00

MECHANICAL GENERAL NOTES:

- 1) CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING ALL EXISTING FIELD CONDITIONS PRIOR TO SUBMISSION OF HIS BID.
 - A) CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CHASES, DUCTWORK AND PIPE SIZES. NO EXTRA COMPENSATION WILL BE ALLOWED FOR THE CONTRACTOR FAILING TO DO SO.
 - B) CONTRACTOR SHALL FIELD VERIFY LOCATIONS, SIZES AND CAPACITIES OF ALL EQUIPMENT, APPARATUS AND DEVICES, INCLUDING BUT NOT LIMITED TO TERMINAL UNITS, FANS, CONVECTORS, FANS, ETC.
 - C) CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH PROCESS FOR ACCESSING SITE, ROOF, FLOOR AND SPACE. CONTRACTOR SHALL NOT CUT ANY HOLES IN FACADE, ROOF, FLOORS, ETC. UNLESS COMPLETELY NECESSARY AND WITH PRIOR APPROVAL FROM THE OWNER AND ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCLUDING PATCHING AND REPAIR REQUIRED TO RETURN TO ORIGINAL CONDITION.
- 2) THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND INDICATE APPROXIMATE LOCATION OF DUCTWORK, PIPING AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATIONS, SIZES AND ROUTING OF THE EXISTING DUCTS, PIPING, ETC.
 - A) CONTRACTOR SHALL REMOVE EXISTING EQUIPMENT AND MATERIALS PERTAINING TO HIS CONTRACT AS SPECIFIED OR AS REQUIRED WHETHER SHOWN ON THE DRAWINGS OR NOT, TO PREPARE FOR THE NEW WORK. OWNER TO BE PROVIDED WITH RIGHT OF REFUSAL FOR SALVAGE VALUE OR ATTIC STOCK. IF OWNER REFUSES CONTRACTOR SHALL REMOVE ALL DEMOLISHED EQUIPMENT AND MATERIALS FROM THE SITE AND PROPERLY DISPOSE.
 - B) CONTRACTOR SHALL PROVIDE LABOR, MATERIALS AND EQUIPMENT AND INSTALL SAME AS REQUIRED TO ACCOMPLISH WORK AND PROVIDE COMPLETE AND FULLY FUNCTIONING SYSTEMS.
- 3) CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES AND MAKING ANY NECESSARY MODIFICATIONS TO HIS WORK AT NO ADDITIONAL COST, INCLUDING ALL OFFSETS.
- 4) CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OF ANY EXISTING MINOR INTERFERENCES, INCLUDING CONDUIT, HANGERS, ETC., AT NO ADDITIONAL COST.
- 5) ALL WORK SHALL BE IN ACCORDANCE WITH 2015 INTERNATIONAL MECHANICAL CODE AND THE LATEST EDITION OF THE ILLINOIS ENERGY CONSERVATION CODE. THESE CODES SHALL BE FOLLOWED AS MINIMUM PROVIDING HIGHER GRADES OF MATERIAL AND WORKMANSHIP WHERE REQUIRED BY THESE DOCUMENTS. PROVIDE ALL TESTS REQUIRED BY LOCAL CODES.
- 6) ALL EQUIPMENT, MATERIALS, ETC. SHALL COMPLY WITH THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
- 7) ALL PERMITS, FEES, LICENSES, APPROVALS AND OTHER ARRANGEMENTS FOR WORK SHALL BE OBTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 8) ALL EQUIPMENT, TERMINAL UNITS, REHEAT COILS, DAMPERS, DIFFUSERS AND GRILLES SHALL BE UL LISTED.
- 9) SUBMITTALS
 - A) SUBMIT EQUIPMENT SPECIFICATIONS AND CUTS FOR REVIEW AND APPROVAL.
 - B) SUBMIT ASSEMBLED PRINTED OPERATION AND MAINTENANCE MANUALS OF EACH ITEM INSTALLED ALONG WITH EQUIPMENT CUTS AND CONTROL WIRING DIAGRAMS IN ACCORDANCE WITH SECTION C408.1.1 OF THE 2018 IECC.
 - C) SUBMIT COORDINATED SHOP DRAWINGS FOR REVIEW. THE SHOP DRAWINGS SHALL INDICATE PIPING, DUCT, DIFFUSER, LIGHT FIXTURE, STRUCTURE AND THERMOSTAT LOCATIONS AND MUST BE SUBMITTED PRIOR TO FABRICATION AND INSTALLATION.
 - D) CONTRACTOR SHALL SUBMIT CERTIFIED TEST AND BALANCE REPORTS FOR APPROVAL PRIOR TO FINAL INSPECTION BY AHJ.
 - E) SUBMIT EQUIPMENT FUNCTIONAL TEST RESULTS, CONTROLS FUNCTIONAL TEST RESULTS AND ECONOMIZER FUNCTIONAL TEST RESULTS PRIOR TO FINAL INSPECTION BY AHJ.
 - F) SUBMIT ITEMIZED DEFICIENCIES LIST AND DEFERRED TESTING LIST PRIOR TO FINAL INSPECTION BY AHJ.
 - G) SUBMIT SCHEDULE FOR ALL REQUIRED TRAINING PRIOR TO FINAL INSPECTION BY AHJ.
 - H) SUBMIT AS-BUILT DRAWING INDICATING A NUMBERING SYSTEM WHICH CORRELATES PLAN WITH BALANCE REPORT, VAV BOXES, ETC.
 - I) SUBMIT AS-BUILT DRAWINGS FOR DUCTWORK AND PIPING, INCLUDING THERMOSTAT LOCATIONS.
 - J) SUBMIT EQUIPMENT AND CONTROL OPERATIONS AND MAINTENANCE MANUALS TO OWNER WITHIN 90 DAYS OF ISSUANCE OF CERTIFICATE OF OCCUPANCY.
 - K) ALL DEFICIENCIES SHALL BE CORRECTED AND THE FUNCTIONAL TEST RESULTS SUBMITTED WITHIN 90 DAYS OF ISSUANCE OF CERTIFICATE OF OCCUPANCY.
- 10) CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR AFTER FINAL ACCEPTANCE AGAINST ALL DEFECTS OF MATERIAL, EQUIPMENT AND WORKMANSHIP.
- 11) PROVIDE COMPETENT MANUFACTURER CERTIFIED OPERATING TECHNICIAN TO INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL INSTALLED EQUIPMENT AND TEMPERATURE CONTROLS. TRAINING MUST BE COMPLETED WITHIN 90 DAYS OF THE ISSUANCE OF CERTIFICATE OF OCCUPANCY. SUBMIT SCHEDULE OF TRAINING SESSIONS PRIOR TO FINAL INSPECTION BY AHJ.
- 12) THE DRAWING INDICATES GENERAL CHARACTER AND LOCATION OF WORK INCLUDED, BUT HAVING MINOR SPECIALTIES OMITTED WHICH ARE TO BE PROVIDED AND INSTALLED WITHOUT EXTRA COST.
- 13) PROVIDE ISOLATION VALVES FOR ALL PIPING TAKE-OFFS FROM MAINS.
- 14) PROVIDE ALL CORES, OPENINGS, SLEEVES AND CAULKING FOR INSTALLATION OF THIS WORK. CAULKING TO CONFORM TO FIRE RATING OF WALLS.
- 15) VERIFY EXACT LOCATION OF TEMPERATURE SENSORS WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION.
- 16) PROVIDE AND INSTALL VALVE TAGS, PIPE LABELS AND DUCTWORK LABELS. SUBMIT PROPOSED VALVE TAG AND LABELING NOMENCLATURE FOR REVIEW. PROVIDE OWNER WITH VALVE SCHEDULE IN FORMAT DETERMINED BY OWNER.
- 17) CONTRACTOR SHALL CUT ALL OPENINGS REQUIRED FOR HIS WORK. ALL OPENINGS SHALL BE SEALED AIR TIGHT. CONTRACTOR SHALL ALSO PATCH AND SEAL ANY EXISTING OPENINGS LEFT UNUSED AS A RESULT OF THIS WORK.
- 18) ALL NEW CONTROLS SHALL BE DDC. EXTEND EXISTING SYSTEM AS REQUIRED FOR NEW WORK. PROVIDE AND INSTALL TEMPERATURE SENSORS, CONDUIT, CABLING AND NECESSARY LOCAL AND NETWORK CONTROLLERS REQUIRED FOR A FULLY OPERATING SYSTEM. INCORPORATE NEW WORK, USING OWNER STANDARD SEQUENCES FOR SIMILAR SYSTEMS AND PROVIDE NEW GRAPHICS, ALARMS, ETC. TO MEET OWNER'S STANDARD.
- 19) COMMISSIONING PLAN.
 - A) CERTIFY THAT HVAC&R SYSTEMS, SUBSYSTEMS, AND EQUIPMENT HAVE BEEN INSTALLED, CALIBRATED, AND STARTED AND ARE OPERATING ACCORDING TO THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS AND SUBMITTALS.
 - B) CERTIFY THAT HVAC&R INSTRUMENTATION AND CONTROL SYSTEMS HAVE BEEN COMPLETED AND CALIBRATED, THAT THEY ARE OPERATING ACCORDING TO THE CONTRACT DOCUMENTS AND APPROVED SHOP DRAWINGS AND SUBMITTALS, AND THAT PRETEST SET POINTS HAVE BEEN RECORDED.
 - C) CERTIFY THAT TAB PROCEDURES HAVE BEEN COMPLETED AND THAT TAB REPORTS HAVE BEEN SUBMITTED, DISCREPANCIES CORRECTED, AND CORRECTIVE WORK APPROVED.
 - D) SET SYSTEMS, SUBSYSTEMS, AND EQUIPMENT INTO OPERATING MODE TO BE TESTED ACCORDING TO APPROVED TEST PROCEDURES (E.G., NORMAL SHUTDOWN, NORMAL AUTO POSITION, NORMAL MANUAL POSITION, UNOCCUPIED CYCLE, EMERGENCY POWER, AND ALARM CONDITIONS).
 - E) MEASURE CAPACITIES AND EFFECTIVENESS OF SYSTEMS, ASSEMBLIES, SUBSYSTEMS, EQUIPMENT, AND COMPONENTS, INCLUDING OPERATIONAL AND CONTROL FUNCTIONS TO VERIFY COMPLIANCE WITH ACCEPTANCE CRITERIA.
 - F) TEST SYSTEMS ASSEMBLIES, SUBSYSTEMS, EQUIPMENT, AND COMPONENTS OPERATING MODES, INTERLOCKS, CONTROL RESPONSES, AND RESPONSES TO ABNORMAL OR EMERGENCY CONDITIONS, AND RESPONSE ACCORDING TO ACCEPTANCE CRITERIA.
- 20) CONSTRUCTION CHECKLISTS: PREPARE AND SUBMIT DETAILED CONSTRUCTION CHECKLISTS FOR HVAC&R SYSTEMS, SUBSYSTEMS, EQUIPMENT, AND COMPONENTS.
 - A) CONTRIBUTORS TO THE DEVELOPMENT OF CONSTRUCTION CHECKLISTS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 - (1) HVAC&R SYSTEMS AND EQUIPMENT INSTALLERS.
 - (2) TAB TECHNICIANS.
 - (3) HVAC&R INSTRUMENTATION AND CONTROLS INSTALLERS.
- 21) PERFORM TESTS USING DESIGN CONDITIONS, WHENEVER POSSIBLE.
 - A) SIMULATED CONDITIONS MAY, WITH APPROVAL OF ARCHITECT, BE IMPOSED USING AN ARTIFICIAL LOAD WHEN IT IS IMPRACTICAL TO TEST UNDER DESIGN CONDITIONS. BEFORE SIMULATING CONDITIONS, CALIBRATE TESTING INSTRUMENTS. PROVIDE EQUIPMENT TO SIMULATE LOADS. SET SIMULATED CONDITIONS AS DIRECTED BY COMMISSIONING COORDINATOR AND DOCUMENT SIMULATED CONDITIONS AND METHODS OF SIMULATION. AFTER TESTS, RETURN CONFIGURATIONS AND SETTINGS TO NORMAL OPERATING CONDITIONS.
 - B) COMMISSIONING TEST PROCEDURES MAY DIRECT THAT SET POINTS BE ALTERED WHEN SIMULATING CONDITIONS IS IMPRACTICAL.
 - C) COMMISSIONING TEST PROCEDURES MAY DIRECT THAT SENSOR VALUES BE ALTERED WITH A SIGNAL GENERATOR WHEN DESIGN OR SIMULATING CONDITIONS AND ALTERING SET POINTS ARE IMPRACTICAL.
- 22) IF TESTS CANNOT BE COMPLETED BECAUSE OF A DEFICIENCY OUTSIDE THE SCOPE OF THE HVAC&R SYSTEM, DOCUMENT THE DEFICIENCY AND REPORT IT TO OWNER. AFTER DEFICIENCIES ARE RESOLVED, RESCHEDULE TESTS.
- 23) IF SEASONAL TESTING IS SPECIFIED, COMPLETE APPROPRIATE INITIAL PERFORMANCE TESTS AND DOCUMENTATION AND SCHEDULE SEASONAL TESTS.
- 24) COORDINATE SCHEDULE WITH, AND PERFORM THE FOLLOWING ACTIVITIES AT THE DIRECTION OF, COMMISSIONING COORDINATOR.
- 25) COMPLY WITH CONSTRUCTION CHECKLIST REQUIREMENTS, INCLUDING MATERIAL VERIFICATION, INSTALLATION CHECKS, START-UP, AND PERFORMANCE TESTS REQUIREMENTS SPECIFIED IN SECTIONS SPECIFYING HVAC SYSTEMS AND EQUIPMENT.
- 26) PROVIDE TECHNICIANS, INSTRUMENTATION, TOOLS, AND EQUIPMENT TO COMPLETE AND DOCUMENT THE FOLLOWING:
 - A) PERFORMANCE TESTS.
 - B) DEMONSTRATION OF A SAMPLE OF PERFORMANCE TESTS.
 - C) COMMISSIONING TESTS.
 - D) COMMISSIONING TEST DEMONSTRATIONS.
- 27) COMMISSIONING AND COMPLETION REQUIREMENTS: PRIOR TO FINAL INSPECTION BY AUTHORITY HAVING JURISDICTION SUBMIT THE FOLLOWING FOR REVIEW BY THE ENGINEER.
 - A) HVAC SYSTEMS TEST AND BALANCE REPORT.
 - B) FUNCTIONAL PERFORMANCE TESTING REPORTS FOR THE FOLLOWING:
 - (1) HVAC EQUIPMENT SHALL UNDERGO FUNCTIONAL PERFORMANCE TESTING TO DEMONSTRATE THAT THE INSTALLATION AND OPERATION OF COMPONENTS, SYSTEMS AND SYSTEM TO SYSTEM INTERFACING ARE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. TESTING SHALL INCLUDE ALL MODES AS DESCRIBED IN THE SEQUENCE OF OPERATION AT FULL LOAD AND PART LOAD, REDUNDANT MODE, PERFORMANCE OF ALARMS AND MODE OF OPERATION UPON LOSS OF POWER AND RESTORATION OF POWER.
 - (2) HVAC CONTROL SYSTEM SHALL BE TESTED TO DOCUMENT PROPER CALIBRATION AND ADJUSTMENT AND THAT THE SYSTEMS OPERATE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATIONS SHALL BE FUNCTIONALLY TESTED TO DOCUMENT OPERATION IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
 - (3) AIR ECONOMIZERS SHALL BE TESTED TO DOCUMENT PROPER OPERATION IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
 - C) ITEMIZED LIST OF DEFICIENCIES FOUND DURING TESTING THAT HAVE NOT BEEN CORRECTED.
 - D) DEFERRED TESTS THAT COULD NOT BE PERFORMED BECAUSE OF CLIMATIC CONDITIONS AND THE CLIMATIC CONDITIONS REQUIRED FOR DEFERRED TESTS.
 - E) FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING COMMISSIONING PROCESS AND MEASURABLE CRITERIA FOR TEST ACCEPTANCE.
 - F) RECORD OF TRANSMITTANCE OF ALL OPERATION AND MAINTENANCE MANUALS.

MECHANICAL GENERAL DEMOLITION NOTES:

- NOTES RE: EXISTING CONDITIONS**
1. VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO BIDDING. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
 2. MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL MECHANICAL AND ELECTRICAL ITEMS AND EQUIPMENT, BOTH NEW AND EXISTING, AS MAY BE REQUIRED BY THESE ALTERATIONS AND ADDITIONS.
 3. DISCONNECT AT SOURCE AND REMOVE EXISTING ELECTRICAL MATERIALS AND EQUIPMENT AND ALL OTHER MECHANICAL ITEMS WHICH ARE RENDERED OBSOLETE BY THESE ALTERATIONS AND ADDITIONS. THESE ARE THE PROPERTY OF THE OWNER AND SHALL EITHER BE REMOVED FROM THE SITE OR RETURNED TO THE OWNER'S STOCK AT THE DISCRETION OF THE OWNER.
 4. DISCONNECT, REMOVE AND RELOCATE EXISTING MECHANICAL MATERIALS AND EQUIPMENT, AND ALL OTHER MECHANICAL ITEMS WHICH INTERFERE OR ARE INTERFERED WITH, OBSTRUCT OR ARE OBSTRUCTED BY THESE LOCATIONS AS DIRECTED. RECONNECT SUCH ITEMS IN PROPER OPERATING CONDITION AT NEW LOCATIONS.
 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE EXISTING BUILDING IN MECHANICAL OPERATION AT ALL TIMES DURING THE ENTIRE CONSTRUCTION PERIOD. IF IT IS ABSOLUTELY NECESSARY TO SHUT DOWN THE FACILITY AT ANY TIME, THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND MAKE ARRANGEMENTS TO DO SO AT THE OWNER'S CONVENIENCE. PRIOR NOTICE SHALL BE GIVEN.
 6. COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS.
 7. ALL CUTTING AND PATCHING AS REQUIRED FOR WORK TO BE BY THE CONTRACTOR.
 8. WHERE EXISTING CONDUITS HAVE BEEN MADE OBSOLETE BY THESE ALTERATIONS AND ADDITIONS AND IT IS IMPRACTICAL TO REMOVE SAME, CONTRACTOR SHALL:
 - a) CUT PIPING, CONDUITS AND DUCTS OFF AT SLAB OR WALL LINE.
 - b) CAP ALL OBSOLETE PIPING AND DUCTWORK.
 9. WHERE THE EXISTING PIPING, CONDUIT OR DUCTWORK SERVING ANY EXISTING MECHANICAL EQUIPMENT IN AREA OF EXISTING BUILDING NOT BE ALTERED IS INTERFERED WITH, CONTRACTOR SHALL REROUTE AND RECONNECT ALL SUCH PIPES OR DUCTWORK.
 10. CONTRACTOR IS RESPONSIBLE FOR ISOLATING, DRAINING, REFILLING & VENTING OF ALL SYSTEMS REQUIRED FOR EXECUTION OF WORK. COORDINATE PROCEDURES WITH OWNER.

- NOTES RE: INSPECTING EXISTING BUILDING**
1. THE CONTRACTORS SHALL VISIT AND INSPECT THE EXISTING BUILDING AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ACTUAL JOB CONDITIONS PRIOR TO BIDDING. NO EXTRAS WILL BE ALLOWED FOR WORK WHICH MIGHT HAVE BEEN REASONABLY FORESEEN BY AN INSPECTION OF THESE PREMISES.
 2. WHILE THE SIZE AND LOCATION OF NEW WORK AND EQUIPMENT IN THE EXISTING BUILDING HAS BEEN INDICATED ON THE DRAWINGS AS ACCURATELY AS POSSIBLE, CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID EXISTING DUCTS, PIPES, CONDUITS AND BEAMS NOT SHOWN ON PLANS. CONTRACTOR SHALL ADAPT HIS WORK TO MEET ALL ACTUAL CONDITIONS ON THE EXISTING PREMISES.
 3. CONTRACTOR SHALL INSPECT THE PREMISES AND MAKE A DETAILED EXAMINATION OF ALL LOCATIONS WHERE NEW WORK IS TO BE INSTALLED AND SHALL EXAMINE EXISTING PIPING, CONDUITS, STRUCTURAL SUPPORTING BEAMS, ETC.
 4. CONTRACTOR AFTER INSPECTING THE PREMISES AND THE DRAWINGS SHALL CALL TO THE ATTENTION OF THE ARCHITECT ANY LACK OF ANY NECESSARY SPACE OR CLEARANCE REQUIRED BY THE VARIOUS EQUIPMENT PRIOR TO BIDDING. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF HE NEGLECTS TO DO SO.

LEGENDS:

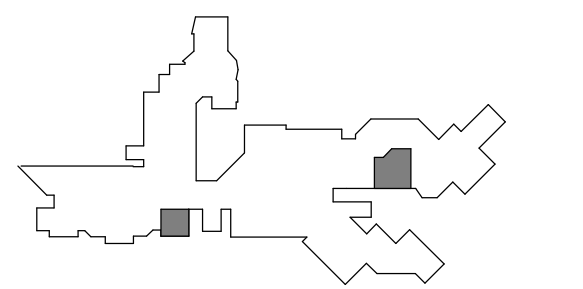
- INDICATES EXISTING TO REMAIN.
- INDICATES EXISTING TO BE DISCONNECTED AND REMOVED.
- E.T.R. EXISTING TO REMAIN.

CONTROLS REQUIREMENTS:

CONTROLS FOR ALL NEW EQUIPMENT ARE TO BE FULLY INTEGRATED INTO EXISTING BUILDING CONTROLS SYSTEMS.
REMOVE AND REINSTALL CEILINGS AS NEEDED FOR CONTROLS AND CONTROLS CABLING. ALL CONTROLS CABLING AND WIRING TO BE PLENUM RATED. PROVIDE 120V CONNECTIONS TO NEW CONTROLS EQUIPMENT AS REQUIRED. PROVIDE SWITCHBOARD CONNECTION. COORDINATE REQUIREMENTS WITH ELECTRICAL.

GENERAL CONTROLS NOTES:

1. ALL SYSTEMS NEW AND EXISTING PROVIDED WITH NEW CONTROLLER AND CONTROLS.
2. ALL SYSTEMS NEW AND EXISTING PROVIDED WITH NEW CONTROLLERS AND CONTROLS TO BE BALANCED FOR PROPER AIR FLOW.
3. COORDINATE ALL ROOM TEMPERATURE SENSOR REQUIREMENTS AND INSTALLATION LOCATIONS WITH SCHOOL PREFERENCES.
4. ALL CONTROLS ASSOCIATED WITH DEMOLISHED EQUIPMENT ARE TO BE FULLY REMOVED.



GENERAL MECHANICAL SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CFM	CUBIC FEET PER MINUTE		SUPPLY DUCT
CH	CABINET HEATER		RETURN/EXHAUST DUCT
EA	EXHAUST AIR		OUTSIDE AIR
EF	EXHAUST FAN		REINFORCED/INSULATED FLEX
FC	FLEX CONNECTION		SUPPLY DIFFUSER
RA	RETURN AIR		RETURN REGISTER
SA	SUPPLY AIR		45 DEGREE TAP
OA	OUTSIDE AIR		CAP
T	ROOM TEMP SENSOR		GATE VALVE
H	HUMIDISTAT		B & G CIRCUIT SETTER
UH	UNIT HEATER		CHECK VALVE
VD	VOLUME DAMPER		GAS COCK/ PLUG COCK
WG	WITH GUARD		GLOBE VALVE
O.A.C.	OPENING ABOVE CEILING		TEMP. CONTROL VALVE
	SUPPLY UP - DOWN		WELDED ELBOW
	RETURN/EXHAUST UP - DN.		BUTTERFLY VALVE
	OUTSIDE AIR UP - DOWN		STRAINER
CWS	CONDENSER WATER SUPPLY		ELBOW UP
CWR	CONDENSER WATER RETURN		ELBOW DOWN

GRILLE, DIFFUSER & REGISTER SCHEDULE						
TAG	MANUFACTURER	MODEL NUMBER	S/R	DESCRIPTION	OBD	REMARKS
A	TITUS	TMSA-AA	S	SO FACE ALUMINUM ADJUSTABLE DIFFUSER (SEE PLANS FOR SIZE & CEILING TYPE)	Y	1, 2, 3, 5
B	TITUS	TMSA-AA	S	SO FACE ALUMINUM ADJUSTABLE DIFFUSER (SEE PLANS FOR SIZE & CEILING TYPE)	Y	1, 3, 5, 6
C	TITUS	350FL	R/E	ALUMINUM RETURN/EXHAUST REGISTER (SEE PLANS FOR SIZE & CEILING TYPE)	Y	1, 2, 3, 4, 5
D	TITUS	350FL	R/E	ALUMINUM RETURN/EXHAUST REGISTER (SEE PLANS FOR SIZE & CEILING TYPE)	Y	1, 3, 4, 5, 6
E	TITUS	TBDI-80	S	PLENUM SLOT DIFFUSER, 2 SLOTS, 1" SLOT WIDTH, 24" LONG. (SEE PLANS FOR SIZE & CEILING TYPE)	Y	1, 3, 5, 7

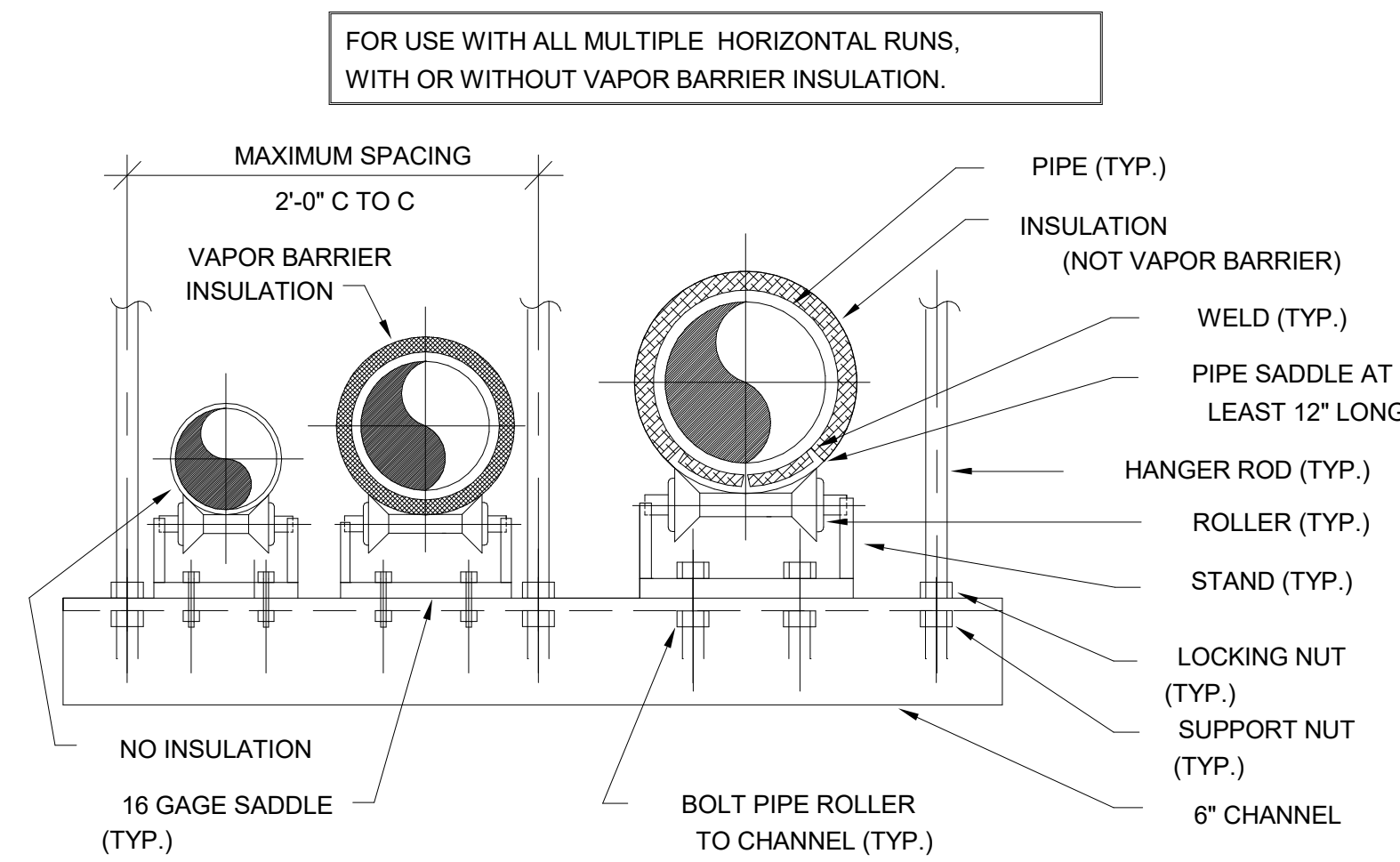
REMARKS:

- FINISH & COLOR BY ARCHITECT.
- LAY-IN FULL FACE, 23-5/8" X 23-5/8" PANEL SIZE- 22" X 22" NECK SIZE TRANSITIONING TO DUCT SIZE UNLESS SHOWN OTHERWISE ON PLANS. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING DRAWINGS. SURFACE MOUNT.
- 45 DEGREE DEFLECTION, 1/2" SPACING. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING DRAWINGS.
- 12" X 12" NOMINAL SIZE - 10" X 10" NECK SIZE TRANSITIONING TO DUCT SIZE UNLESS SHOWN OTHERWISE ON PLANS. COORDINATE WITH ARCHITECTURAL FOR MOUNTING TYPE. LAY-IN. COORDINATE LOCATION AND MOUNTING WITH ARCHITECTURAL CEILINGS.

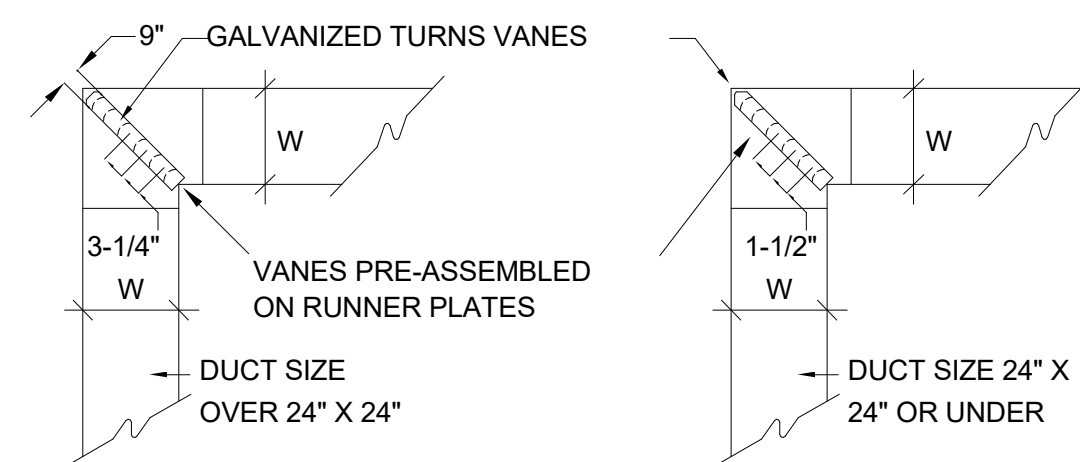
VARIABLE AIR VOLUME BOX SCHEDULE										
TAG	ZONE / LOCATION	MANUFACTURER MODEL NUMBER	INLET SIZE	VALVE			ELECT. REHEAT COIL			REMARKS
				MAX.	MIN.	HEAT	K.W.	STEPS	VOLTAGE	
VAV 1	ADRC 1821	TITUS DESV	8	400	120	200	2	SCR	277 VOLT 1 PHASE 60 HZ	1, 2, 3, 4
VAV 2	ADRC 1820	TITUS DESV	10	960	290	480	5	SCR	277 VOLT 1 PHASE 60 HZ	1, 2, 3, 4
VAV 3	TESTING 1830	TITUS DESV	8	400	120	200	2	SCR	277 VOLT 1 PHASE 60 HZ	1, 2, 3, 4
VAV 4	TESTING 1830	TITUS DESV	8	500	150	250	2.5	SCR	277 VOLT 1 PHASE 60 HZ	1, 2, 3, 4
VAV 5	TESTING 1831	TITUS DESV	12	1980	590	990	9.5	SCR	480 VOLT 3 PHASE 60 HZ	1, 2, 3, 4
VAV 6	TESTING 1832	TITUS DESV	10	1320	390	660	6.5	SCR	480 VOLT 3 PHASE 60 HZ	1, 2, 3, 4
VAV 7	TESTING 1832	TITUS DESV	6	240	70	120	1.5	SCR	277 VOLT 1 PHASE 60 HZ	1, 2, 3, 4
VAV 8	TECH HUB 2269	TITUS DESV	8	720	210	360	4	SCR	277 VOLT 1 PHASE 60 HZ	1, 2, 3, 4
VAV 9	TECH HUB 2269	TITUS DESV	8	360	110	180	2	SCR	277 VOLT 1 PHASE 60 HZ	1, 2, 3, 4
VAV 10	TECH HUB 2260	TITUS DESV	12	1440	430	720	7.5	SCR	480 VOLT 3 PHASE 60 HZ	1, 2, 3, 4
VAV 11	TECH HUB 2260	TITUS DESV	8	510	150	255	2.5	SCR	277 VOLT 1 PHASE 60 HZ	1, 2, 3, 4
VAV 12	TECH HUB 2260	TITUS DESV	10	1260	370	630	6	SCR	480 VOLT 3 PHASE 60 HZ	1, 2, 3, 4

REMARKS:

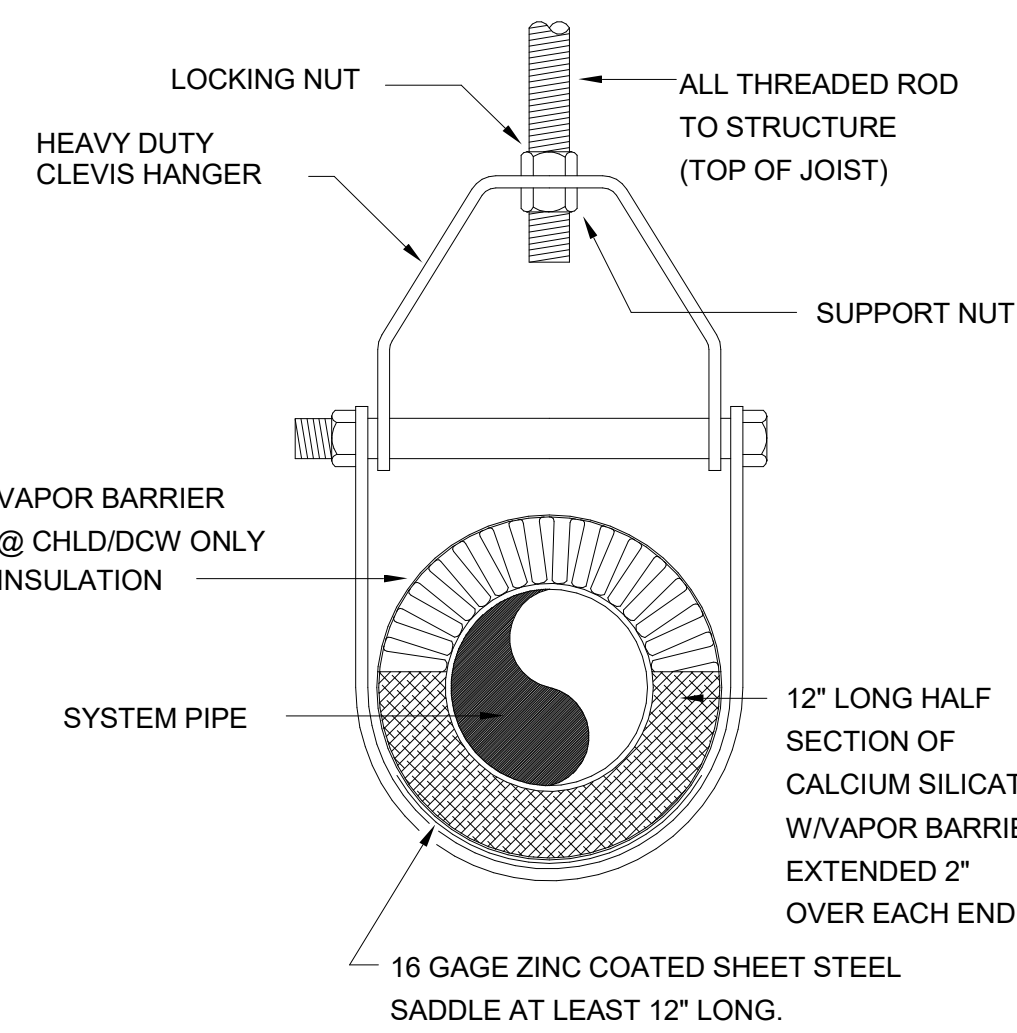
- V.A.V. BOXES SHALL HAVE FIELD INSTALLED D.D.C. CONTROLS.
- VAV UNITS SHALL HAVE INTEGRAL ELECTRIC HEATING COIL AS FOLLOWS:
 - PROPORTIONAL, MODULATING ELECTRIC COILS SHALL BE SUPPLIED & INSTALLED ON THE TERMINAL BY ATTENUATE SECTION INTEGRAL WITH THE TERMINAL WITH ELEMENT GRID RECESSED FROM UNIT DISCHARGE A MIN. OF 5" TO PREVENT DAMAGE TO ELEMENTS DURING SHIPPING & INSTALLATION. ELEMENTS SHALL BE 80/20 NICKEL CHROME, SUPPORTED BY CERAMIC ISOLATORS A MAX. OF 3.5" APART, STAGGERED FOR MAXIMUM THERMAL TRANSFER & ELEMENT LIFE, AND BALANCED TO ENSURE EQUAL OUTPUT PER STEP. THE INTEGRAL PANEL SHALL BE HOUSED IN A NEMA 1 ENCLOSURE WITH HINGED ACCESS DOOR FOR ACCESS TO ALL CONTROLS AND SAFETY DEVICES.
 - ELECTRIC COILS SHALL CONTAIN A PRIMARY AUTOMATIC RESET THERMAL CUTOFF, A SECONDARY MANUAL RESET THERMAL CUTOFF, PROPORTIONAL ELECTRONIC AIRFLOW SENSOR TO PROOF OF FLOW, AND LINE TERMINAL BLOCK. THE PROPORTIONAL ELECTRONIC AIRFLOW SENSOR SHALL BE TOTALLY INDEPENDENT OF THE DUCT STATIC PRESSURE AND SHALL ADJUST THE HEATER CAPACITY ACCORDING TO THE AVAILABLE AIRFLOW. THE HEATERS SHALL DELIVER MAXIMUM HEATING WHEN NEEDED WITH NORMAL MINIMUM AIRFLOW. REDUCE HEATING WITH LOWER THAN MINIMUM AIRFLOW AND STOP HEATING WITH NO AIRFLOW. UNIT SHALL INCLUDE AN INTEGRAL DOOR TO BE OPENED WHEN POWER IS ON. NON-INTERLOCKING TYPE DISCONNECTS ARE NOT ACCEPTABLE. ALL INDIVIDUAL COMPONENTS SHALL BE UL LISTED OR RECOGNIZED.
 - HEATERS SHALL BE EQUIPPED WITH A PROPORTIONAL SCR CONTROLLER TO MODULATE THE HEATER LOAD ACCORDING TO THE TEMPERATURE CONTROL SIGNAL. THE ELECTRONIC CONTROLLER SHALL BE COMPATIBLE WITH THE FOLLOWING INPUT SIGNALS:
 - VARIABLE VOLTAGE SIGNAL 0-10 VDC.
 - PULSE WIDTH MODULATION AC OR DC.
- BOXES ARE TO BE PRESSURE INDEPENDENT WITH AVERAGING AIR FLOW SENSOR AND GASKETED ENCLOSURE.
- BOXES TO BE LINED WITH 1-1/2" CLOSED CELL ELASTOMERIC INSULATION COMPLIANT WITH UL 181 AND NFPA 90A.



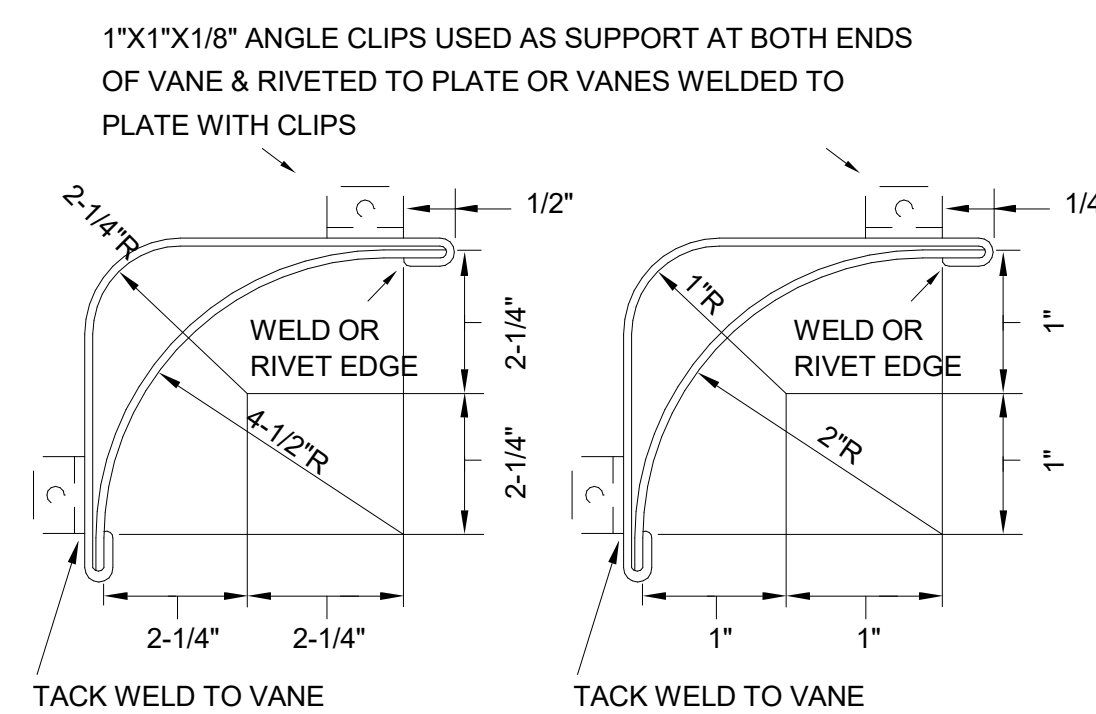
TRAPEZE HANGER DETAIL
NO SCALE



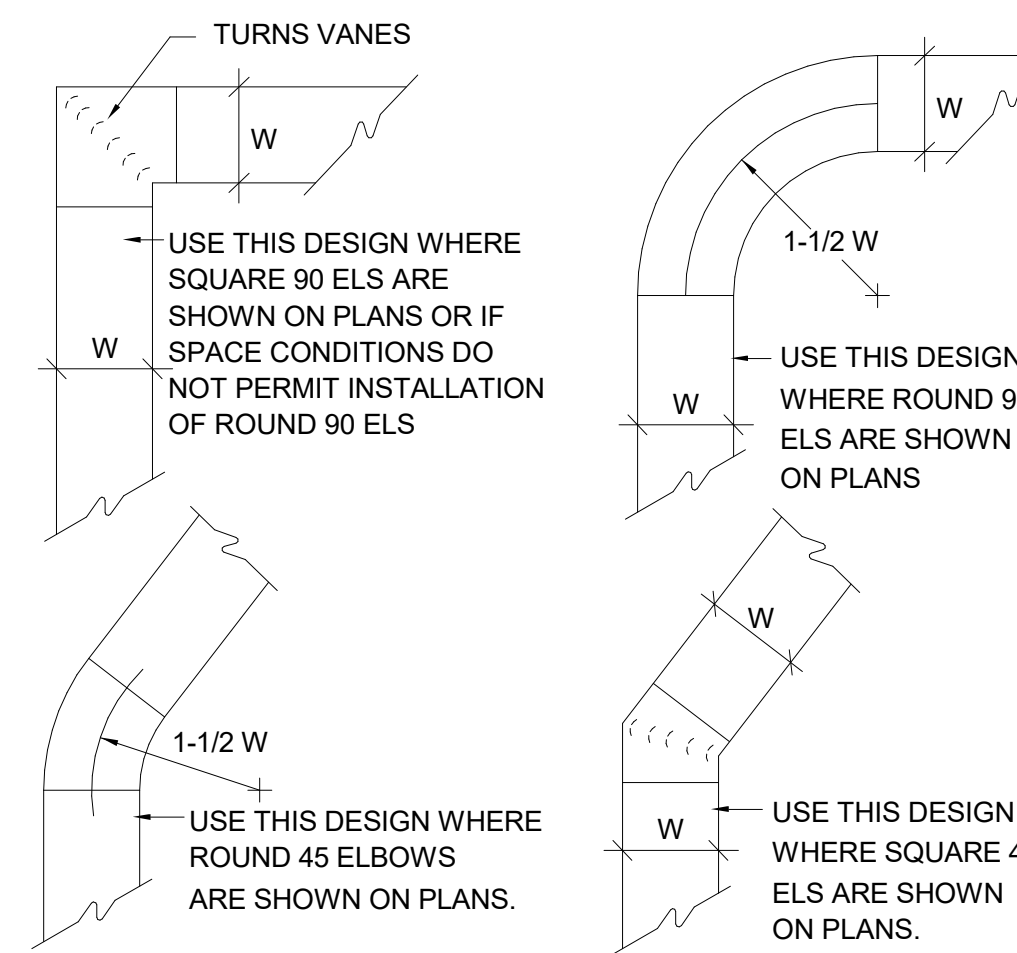
SQUARE DUCT ELBOWS
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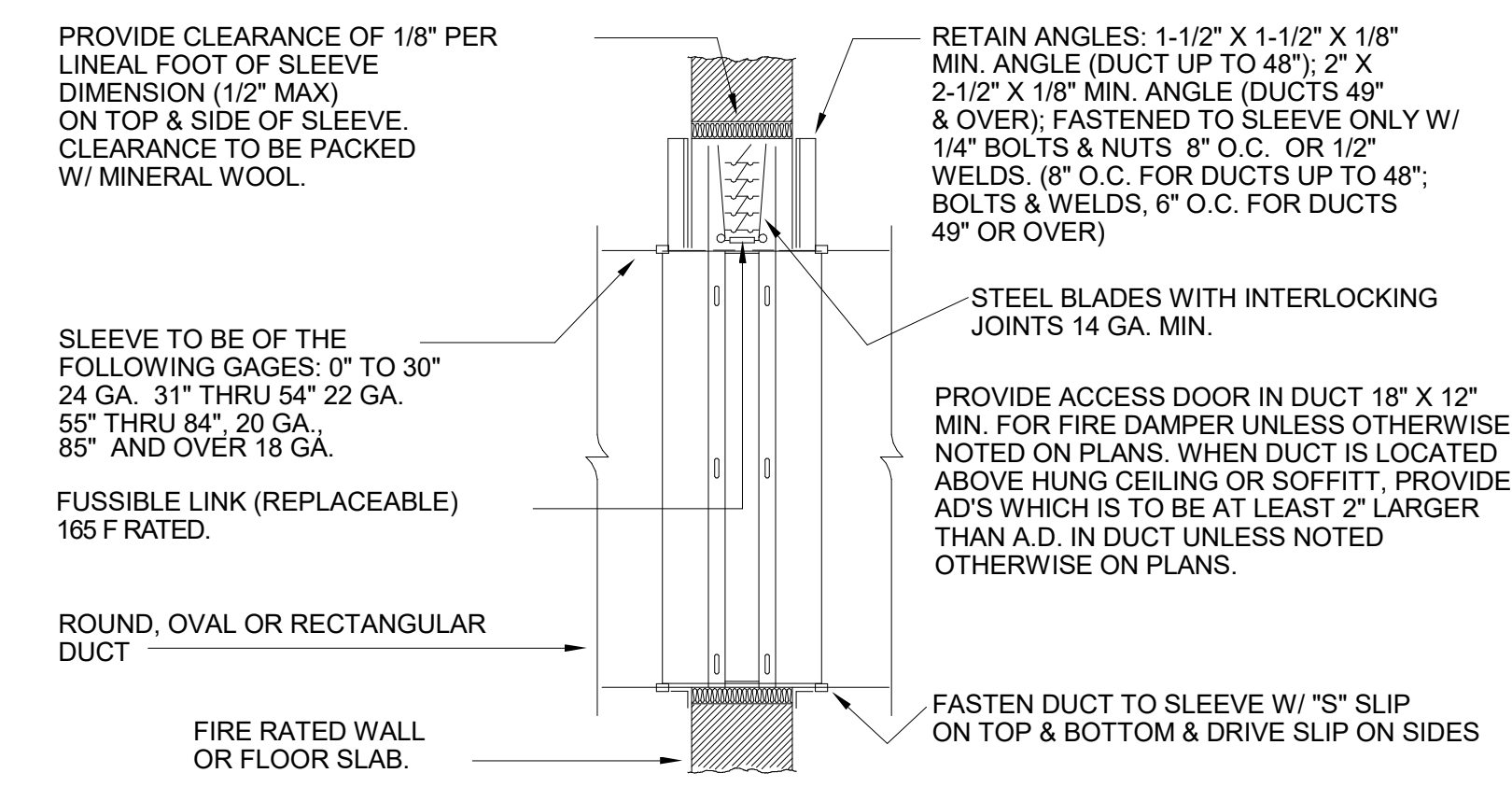
CLEVIS HANGER DETAIL
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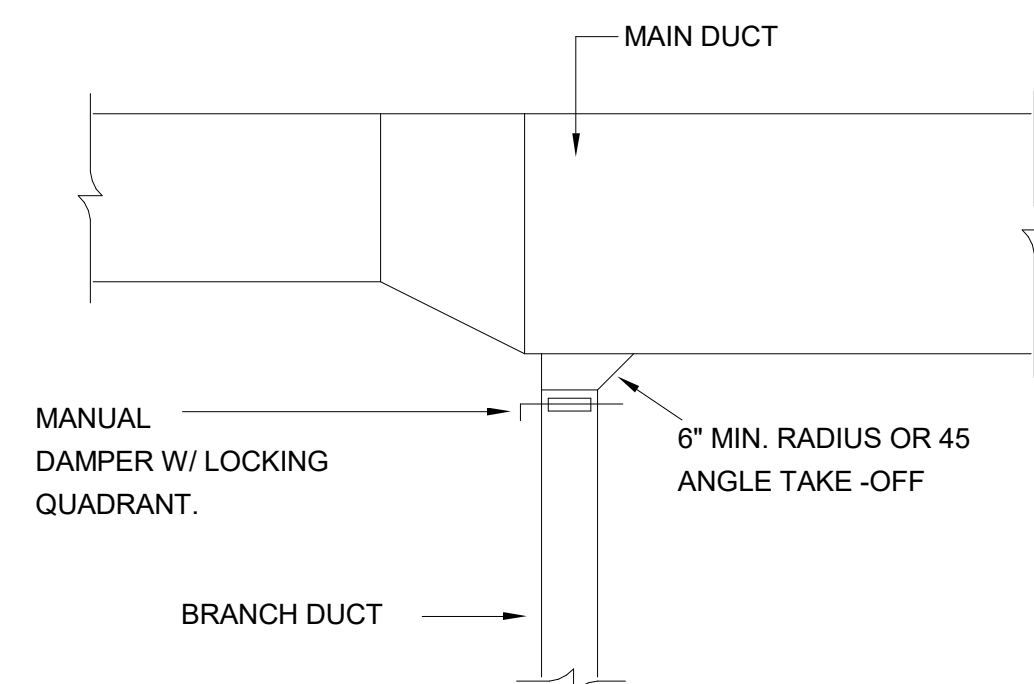
SHEET METAL DUCT DETAILS
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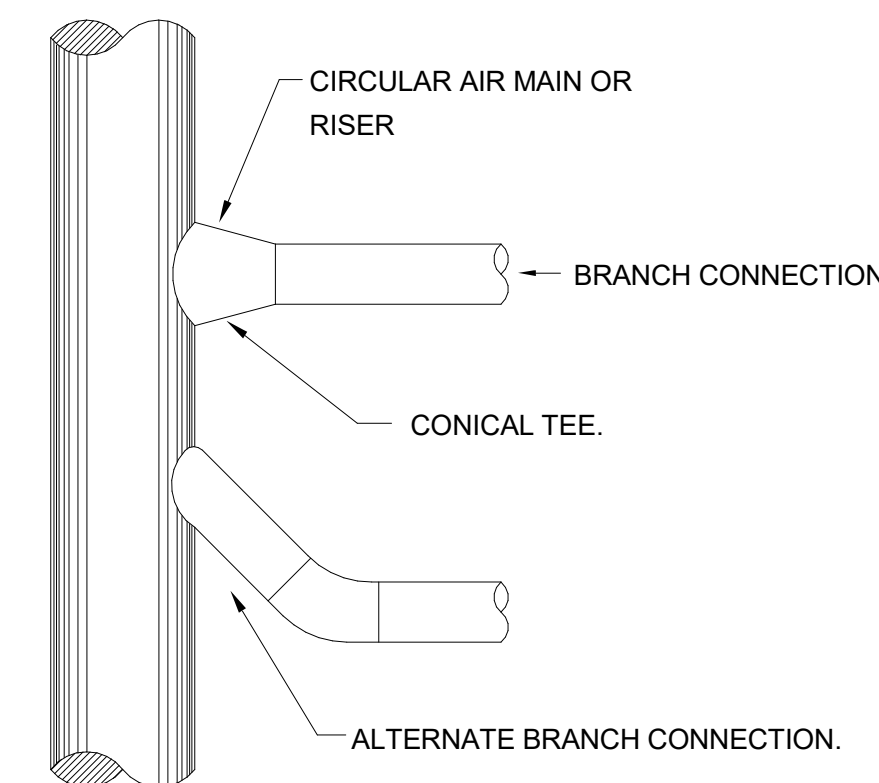
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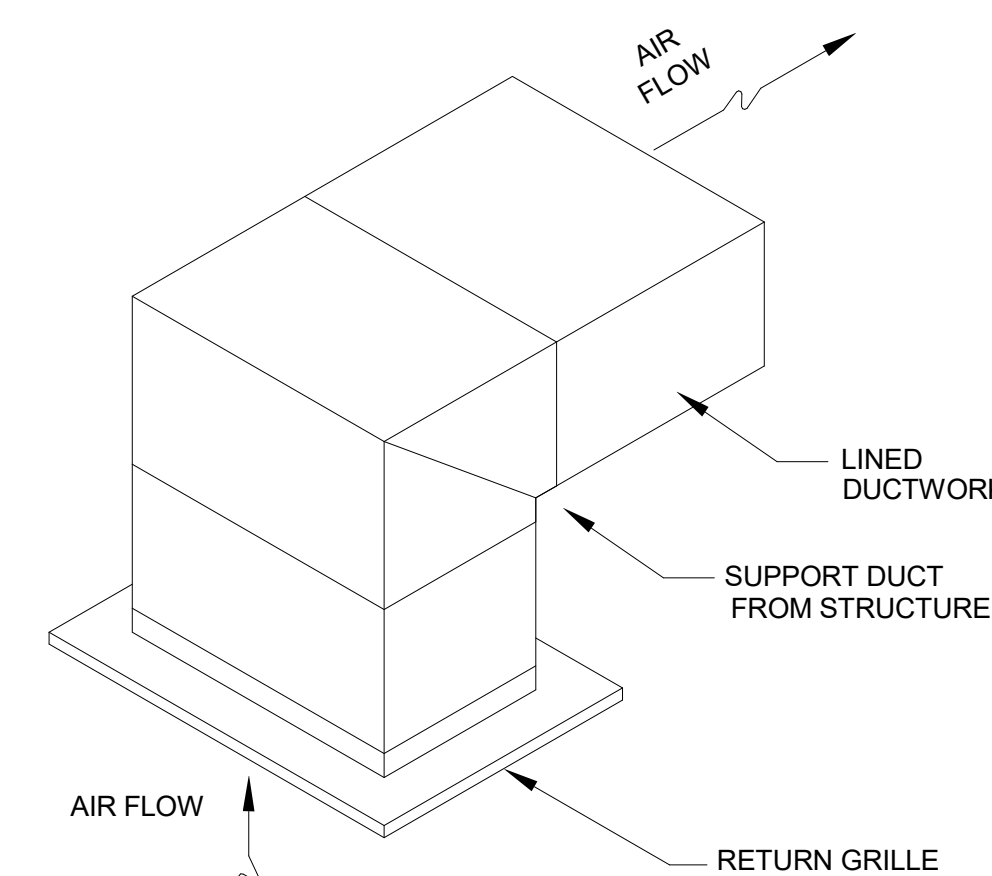
STYLE "B" INTERLOCKING BLADE FIRE DAMPER



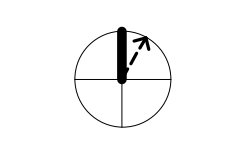
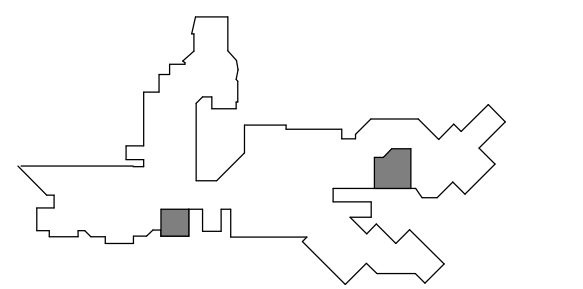
BRANCH DUCT CONNECTION
NO SCALE



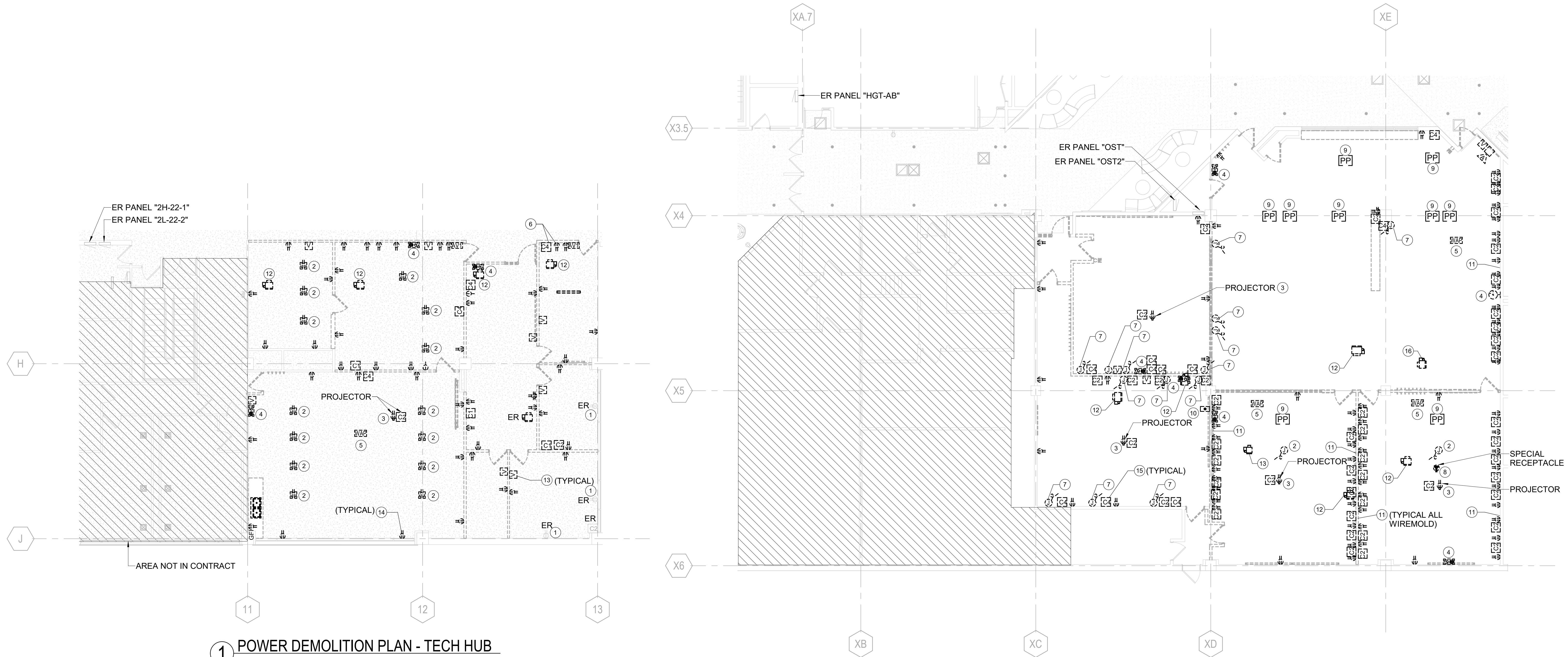
SHEET METAL DUCT DETAILS
NO SCALE



RETURN AIR GRILLE DETAIL
NO SCALE



ISSUED FOR BID	23 SEP 24
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1 POWER DEMOLITION PLAN - TECH HUB
1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES

- EXISTING RECEPTACLE SHALL REMAIN. BYPASS EXISTING CONDUIT AND WIRES AS REQUIRED TO KEEP DEVICE ENERGIZED.
- DISCONNECT AND REMOVE EXISTING FLOORBOX COMPLETE. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES BACK TO NEAREST UNAFFECTED JUNCTION BOX. BYPASS EXISTING CONDUIT AND WIRES AS REQUIRED TO KEEP EXISTING TO REMAIN DEVICES IN EXISTING CIRCUIT ENERGIZED. PATCH AND REPAIR FLOOR AS REQUIRED UPON REMOVAL. COORDINATE ADDITIONAL FLOOR REPAIR WITH ARCHITECT AS REQUIRED. EC TO VERIFY QUANTITIES IN FIELD PRIOR TO START OF WORK.
- DISCONNECT AND REMOVE EXISTING RECEPTACLE FOR EXISTING PROJECTOR. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES BACK TO NEAREST UNAFFECTED JUNCTION BOX. BYPASS EXISTING CONDUIT AND WIRES AS REQUIRED TO KEEP EXISTING TO REMAIN DEVICES IN EXISTING CIRCUIT ENERGIZED. REMOVE DATA CABLING BACK TO DATA RACK SERVING DEVICE.
- DISCONNECT AND REMOVE EXISTING CLOCK/SPEAKER UNIT. DISCONNECT AND REMOVE EXISTING BACKBOX AND CONDUIT COMPLETE. WIRING TO BE REMOVED BY LOW VOLTAGE CONTRACTOR. BYPASS EXISTING CLOCK CIRCUITS AND SPEAKER CABLING AS REQUIRED TO KEEP EXISTING DEVICES IN CIRCUIT OPERATIONAL.
- WIRELESS ACCESS POINT (WAP) TO BE DISCONNECTED AND REMOVE. DISCONNECT AND REMOVE RELATED DATA JACK AND CABLING BACK TO DATA RACK SERVING WAP. WIRELESS ACCESS POINT DEVICE, DEVICE MOUNTING BRACKET, AND RELATED PATCH CORDS TO BE TURNED OVER TO THE OWNER.
- DISCONNECT AND REMOVE EXISTING TV AND ASSOCIATED POWER, DATA, HDMI, ETC.. COMPLETE. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES BACK TO NEAREST UNAFFECTED JUNCTION BOX. BYPASS EXISTING CONDUIT AND WIRES AS REQUIRED TO KEEP EXISTING TO REMAIN DEVICES IN EXISTING CIRCUIT ENERGIZED. REMOVE EXISTING CABLING BACK TO SOURCE.
- DISCONNECT AND REMOVE EXISTING JUNCTION BOX AND WHIP COMPLETE. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES BACK TO NEAREST UNAFFECTED JUNCTION BOX. BYPASS EXISTING CONDUIT AND WIRES AS REQUIRED TO KEEP EXISTING TO REMAIN DEVICES IN EXISTING CIRCUIT ENERGIZED. REMOVE DATA CABLING BACK TO DATA RACK SERVING COMPUTERS.
- DISCONNECT AND REMOVE EXISTING CEILING MOUNTED SPECIAL RECEPTACLE. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES BACK TO NEAREST UNAFFECTED JUNCTION BOX. BYPASS EXISTING CONDUIT AND WIRES AS REQUIRED TO KEEP EXISTING TO REMAIN DEVICES IN EXISTING CIRCUIT ENERGIZED. REMOVE DATA CABLING BACK TO DATA RACK SERVING COMPUTERS.
- DISCONNECT AND REMOVE EXISTING POWER POLE. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES BACK TO NEAREST UNAFFECTED JUNCTION BOX. BYPASS EXISTING CONDUIT AND WIRES AS REQUIRED TO KEEP EXISTING TO REMAIN DEVICES IN CIRCUIT ENERGIZED. RETURN POWER POLES TO OWNER. REMOVE DATA CABLING BACK TO DATA RACK SERVING POWER POLE. REPAIR FLOOR AND CEILING UPON REMOVAL OF POWER POLE.
- DISCONNECT AND REMOVE EXISTING PUSHBUTTON COMPLETE. DISCONNECT AND REMOVE EXISTING CONDUIT AND CABLING AS REQUIRED.
- DISCONNECT AND REMOVE EXISTING RECEPTACLES AND DATA JACKS. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES BACK TO NEAREST UNAFFECTED JUNCTION BOX. BYPASS EXISTING CONDUIT AND WIRES AS REQUIRED TO KEEP EXISTING TO REMAIN DEVICES IN EXISTING CIRCUIT ENERGIZED. REMOVE DATA CABLING BACK TO DATA RACK SERVING DEVICE. EC SHALL CONFIRM QUANTITIES OF RECEPTACLES AND DATA JACKS IN FIELD PRIOR TO DELIVERY OF BIDS.
- DISCONNECT AND REMOVE EXISTING POWER FROM EXISTING VAV UNIT COMPLETE. DISCONNECT AND REMOVE EXISTING CONDUIT, WIRES, AND DISCONNECT SWITCH BACK TO NEAREST UNAFFECTED JUNCTION BOX. BYPASS EXISTING CONDUIT AND WIRES AS REQUIRED TO KEEP EXISTING TO REMAIN DEVICES IN CIRCUIT ENERGIZED.
- DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICE. DISCONNECT AND REMOVE EXISTING FIRE ALARM CABLING AND CONDUIT BACK TO NEAREST UNAFFECTED JUNCTION BOX. BYPASS EXISTING CABLE AND CONDUIT AS REQUIRED TO KEEP EXISTING TO REMAIN DEVICES IN CIRCUIT ENERGIZED.
- DISCONNECT AND REMOVE EXISTING RECEPTACLE. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES BACK TO NEAREST UNAFFECTED JUNCTION BOX. BYPASS EXISTING CONDUIT AND WIRING AS REQUIRED TO KEEP EXISTING TO REMAIN DEVICES ENERGIZED.
- DISCONNECT AND REMOVE EXISTING DATA JACK. DISCONNECT AND REMOVE CABLE AND CONDUIT BACK TO DATA RACK SERVING DEVICE.
- TEMPORARILY DISCONNECT AND REMOVE EXISTING POWER FROM EXISTING VAV FOR RECONNECTION AT NEW LOCATION. TEMPORARILY DISCONNECT AND REMOVE EXISTING CONDUIT, WIRES, AND DISCONNECT SWITCH AS REQUIRED.

2 POWER DEMOLITION PLAN - ADRC/TESTING
1/8" = 1'-0"

GENERAL CEILING DEVICE DEMOLITION NOTE:

ALL CEILING MOUNTED ELECTRICAL DEVICES INCLUDING BUT NOT LIMITED TO FIRE ALARM SYSTEM DEVICES, INTERCOM SYSTEM DEVICES, SECURITY INTRUSION SYSTEM DEVICES, SECURITY CAMERAS, WIRELESS ACCESS POINT (WAP) DEVICES, ETC.. MAY NOT BE SHOWN ON THESE DRAWINGS. IT IS THE INTENT TO REMOVE THESE DEVICES AND THEIR RELATED MOUNTING BRACKETS AS REQUIRED FOR THE DEMOLITION AND INSTALLATION OF NEW CEILING SYSTEMS. DEVICES SHALL BE RETAINED AND RETURNED TO THE OWNER UPON REMOVAL. CONTRACTOR SHALL INSPECT THE CONDITION AND OPERATION OF DEVICES TO BE REMOVED PRIOR TO PERFORMING WORK AND REPORT TO THE ARCHITECT AND OWNER OF ANY DEVICES THAT ARE NON-OPERATIONAL. IF THIS IS NOT COMPLETED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE DAMAGED DEVICES WITH NEW TO MATCH. ALL ASSOCIATED RACEWAY AND WIRING TO BE REMOVED BACK TO HEADEND EQUIPMENT SERVING DEVICES. CONTRACTOR SHALL VERIFY QUANTITY OF DEVICES IN FIELD PRIOR TO BIDDING.

CARD DIRECTORY NOTE:

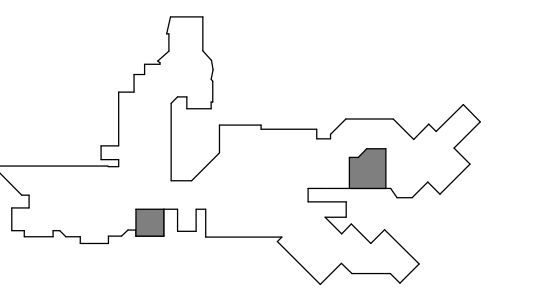
TYPICAL FOR PANELS AFFECTED BY DEMOLITION/NEW WORK. MODIFY PANEL CARD DIRECTORIES TO REFLECT MODIFICATIONS MADE TO PANEL. TRACE OUT ALL EXISTING TO REMAIN CIRCUITS. LABEL BREAKERS NO LONGER SERVING LOADS AS "SPARE". PROVIDE A NEW TYPED CARD DIRECTORY. DO NOT HAND WRITE DIRECTORIES OR MODIFY EXISTING ONES. (TYPICAL FOR ALL PANELS AFFECTED BY DEMOLITION/NEW WORK)

EXISTING FIRE ALARM CABLING NOTE:

EXISTING TO REMAIN FREE AIR FIRE ALARM CABLES LOCATED ABOVE CEILING SHALL BE REINSTALLED IN CONDUIT. EC SHALL REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALLOWANCE AMOUNT. REFER TO SHEET E51-01 FOR FURTHER INFORMATION.

GENERAL DEMOLITION NOTE:

ALL ELECTRICAL DEVICES INCLUDING BUT NOT LIMITED TO RECEPTACLES, POWER POLES, FLOORBOXES, DATA JACKS, CONDUIT, CLOCK/SPEAKERS, FIRE ALARM DEVICES, ETC.. MAY NOT BE SHOWN ON THESE DRAWINGS. IT IS THE INTENT TO REMOVE THESE DEVICES FOR DEMOLITION UNLESS NOTED OTHERWISE. ALL ASSOCIATED RACEWAY AND WIRING TO BE REMOVED BACK TO NEAREST UNAFFECTED JUNCTION BOX. CONTRACTOR SHALL VERIFY QUANTITY OF DEVICES IN FIELD PRIOR TO BIDDING.

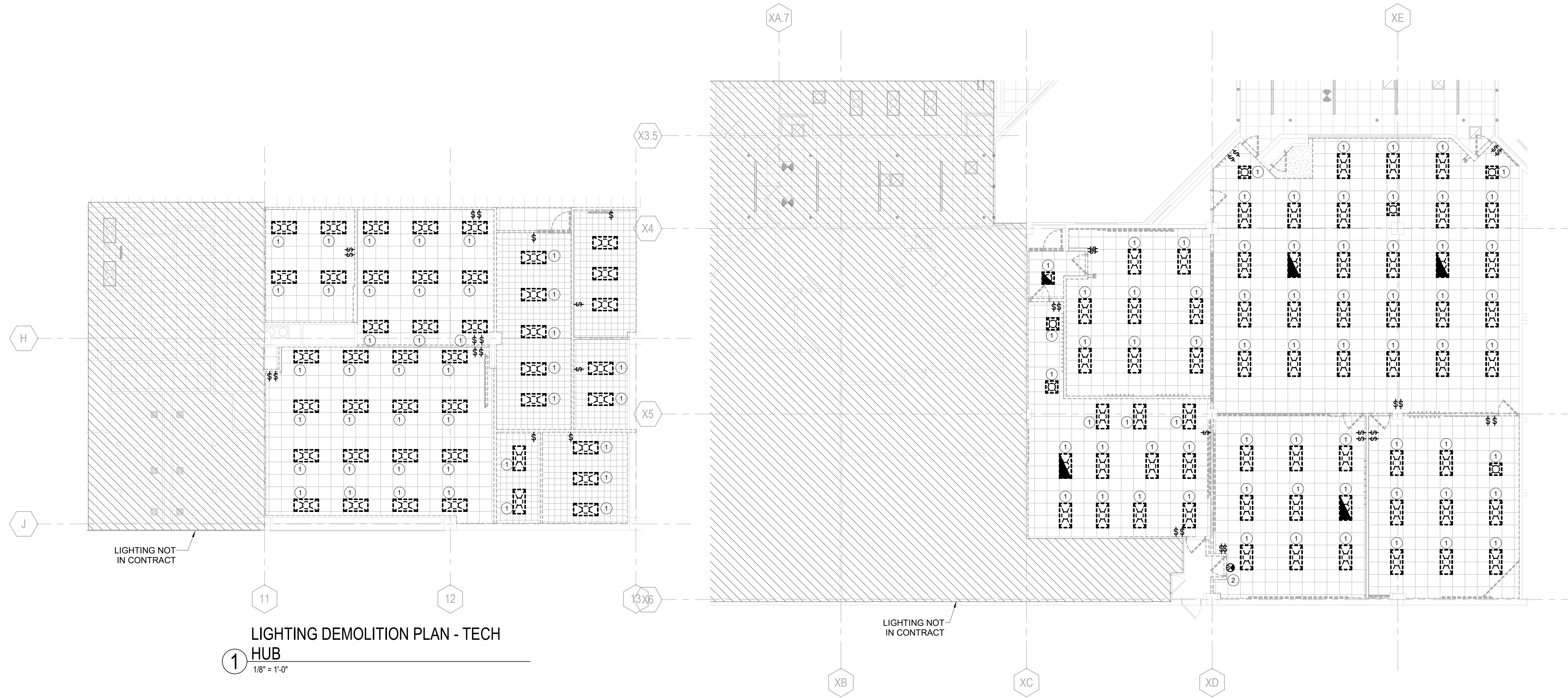


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LIGHTING DEMOLITION
PLANS - PHASE 1

SHEET NUMBER

E05-01



1 LIGHTING DEMOLITION PLAN - TECH
HUB
1/8" = 1'-0"

2 LIGHTING DEMOLITION PLANS -
ADRC/TESTING
1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES (#)

- DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. DISCONNECT AND REMOVE EXISTING CONTROLS ASSOCIATED WITH FIXTURE. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES BACK TO POINT FOR RECONNECTION TO NEW LIGHT FIXTURES. DISPOSE OF FIXTURES AND CONTROLS PER EPA REQUIREMENTS.
- DISCONNECT AND REMOVE EXISTING EXIT SIGN. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRES BACK TO POINT FOR RECONNECTION TO NEW EXIT SIGNS. DISPOSE PER EPA REQUIREMENTS.

GENERAL CEILING DEVICE DEMOLITION NOTE:

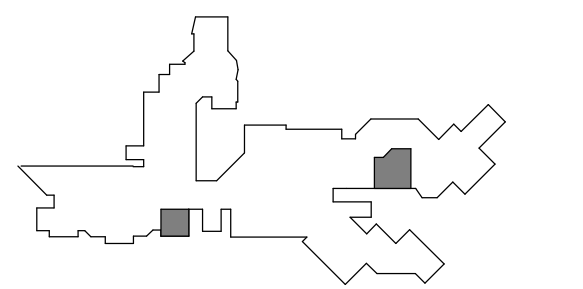
EC SHALL FURNISH AND INSTALL PERMANENT SUPPORTS FOR ANY UNSUPPORTED CONDUIT, BOX, OR CABLES FOUND ABOVE THE CEILING DURING ABOVE CEILING WORK AND/OR AREAS WITH CEILINGS BEING REMOVED BY THE ARCHITECT. EXISTING FREE AIR WIRES SERVING LIGHT FIXTURES FOUND ABOVE CEILING CONDUIT SHALL BE INSTALLED IN 3/4" CONDUIT MINIMUM UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS WITH OWNER.

GENERAL LIGHTING DEMOLITION NOTE:

EXIT SIGNS WITHIN AREAS OF SCOPE TO BE DISCONNECTED AND REMOVED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT/RACEWAYS AND WIRING BACK TO NEAREST UNAFFECTED JUNCTION BOX. BYPASS WIRING AS REQUIRED TO KEEP EXISTING TO REMAIN DEVICES ENERGIZED. EXISTING CONDUIT/RACEWAYS AND WIRING MAY REMAIN AND REUSED IF NEW FIXTURES ARE TO BE INSTALLED AT EXISTING LOCATIONS. MODIFY CONDUIT/RACEWAYS AND WIRING AS REQUIRED TO ACCOMMODATE NEW EXIT SIGNS. ANY CIRCUITS NO LONGER REQUIRED SHALL BE TAKEN BACK TO SOURCE PANELBOARD AND CIRCUIT LABELED AS "SPARE". DISPOSE OF EXIT SIGNS AND BATTERIES PER EPA REQUIREMENTS. HAUL DEVICES TO EPA APPROVED DISPOSAL SITE. PROVIDE PROPER PAPERWORK TO THE ARCHITECT SHOWING LEGAL DISPOSAL FOR DEVICES. DISPOSE OF FIXTURE HOUSINGS AS REQUIRED.

INSTALL BLANK FINISHED COVERPLATES OVER ALL FLUSH MOUNTED WALL OPENINGS WHERE DEVICES HAVE BEEN REMOVED AND LOCATIONS WILL NOT BE REUSED. WHERE SURFACE MOUNTED BOXES AND RACEWAYS WILL NO LONGER BE USED AND CONSIDERED ABANDONED, THEY WILL BE REMOVED COMPLETELY AND WALL PATCHED AND PAINTED TO MATCH SURROUNDING AREA. ANY CEILING TILES LEFT WITH HOLES IN THEM FROM REMOVAL OF DEVICES SHALL BE REPLACED WITH NEW MATCHING CEILING TILES. ALL HOLES IN WALLS, CEILINGS, AND FLOORS SHALL BE PATCHED AND PAINTED TO MATCH AREA.

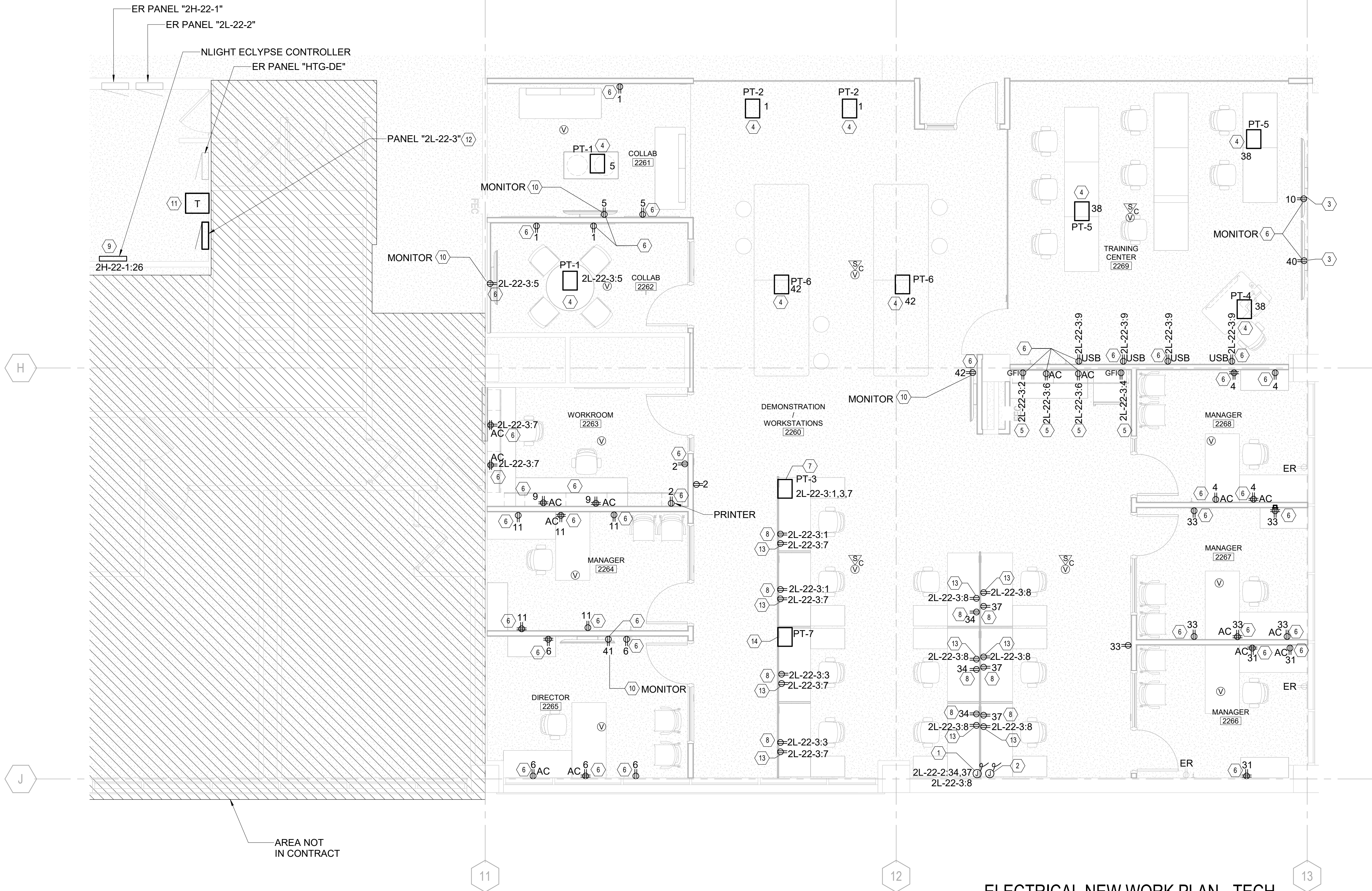
IT IS THE INTENT OF THESE DEMOLITION DRAWINGS TO IDENTIFY ALL EXIT SIGNS WITHIN AREAS OF SCOPE AND ARE TO BE REPLACED COMPLETELY. ALL DEVICES MAY NOT BE SHOWN AND IT WILL BE THE CONTRACTOR'S RESPONSIBILITY FOR REMOVAL OF ALL OF FIXTURES AS NEEDED TO ACCOMMODATE THE NEW FIXTURES BEING INSTALLED.



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ELECTRICAL PLAN NOTES (X)

- FURNISH AND INSTALL NEW FLEXIBLE LIQUIDTIGHT CONDUIT AND WIRES TO JUNCTION BOX IN WALL FOR MODULAR FURNITURE. LOCATE SO AS NOT TO BE BURIED BY FURNITURE WALLS. PROVIDE CONNECTION TO MODULAR FURNITURE TERMINAL BLOCKS. "THREE-CIRCUIT, SEPARATE NEUTRALS" WIRING DIAGRAM FROM MANUFACTURER SHALL BE THE BASIS OF DESIGN. UNDER NO CIRCUMSTANCES ARE SHARED NEUTRALS BETWEEN CIRCUITS ALLOWED. CONDUIT SHALL BE A MINIMUM SIZE 3/4". VERIFY POINTS OF CONNECTION, COMPATIBLE CONDUIT SIZE, QUANTITIES REQUIRED, AND FINAL WIRING SCHEMATIC WITH MANUFACTURER PRIOR TO SHOP DRAWING PHASE. PROVIDE MULTIPLE FEEDS AS REQUIRED. PROVIDE ALL REQUIRED HARDWARE. COORDINATE ALL WORK REQUIRED WITH FURNITURE MANUFACTURER. EC SHALL HAVE THE OPTION TO USE SURFACE MOUNTED WIREMOLD TYPE RACEWAYS AS REQUIRED PER ARCHITECT'S DIRECTION IF CONCEALED RACEWAY IS NOT POSSIBLE. PAINT RACEWAY TO MATCH EXISTING WALLS AS REQUIRED. COORDINATE COLOR WITH ARCHITECT.
- FURNISH AND INSTALL JUNCTION BOX AND FLEXIBLE LIQUIDTIGHT CONDUIT TO ROUTE DATA CABLE AT POWERED DESK LOCATIONS. LOCATE SO AS NOT TO BE BURIED BY FURNITURE WALLS. IF DATA JACKS CAN BE MOUNTED TO FURNITURE, FURNISH AND INSTALL HUBBELL MOUNTING FRAME WITH FACEPLATE AND WITH (2) CAT-6A DATA JACKS INSTALLED. PROVIDE HUBBELL #ISB4 SERIES SURFACE MOUNTED BACK BOX IF MOUNTING FRAME WILL NOT FIT FLUSH MOUNTED ONTO FURNITURE WALL. INSTALL MOUNTING FRAME IN MOUNTING BRACKET IN FURNITURE. ROUTE CABLING INSIDE OF FURNITURE WALL. CONTRACTOR SHALL COORDINATE ALL CONNECTIONS AND MOUNTINGS REQUIRED WITH THE OWNER/ARCHITECT AND FINAL FURNITURE SELECTIONS/MANUFACTURER. INCLUDE ADDITIONAL CABLE LENGTH, COILED ABOVE CEILING, OF 10' EACH FOR FUTURE RELOCATION. CONDUIT SHALL BE A MINIMUM SIZE 1". COORDINATE CONDUIT QUANTITIES REQUIRED, COMPATIBLE CONDUIT SIZES, AND REQUIREMENTS WITH MANUFACTURER AND CABLE MANUFACTURER CONDUIT FILL REQUIREMENTS PRIOR TO SHOP DRAWING PHASE. REFER TO LOW VOLTAGE DETAILS.
- FURNISH AND INSTALL DUPLEX RECEPTACLE IN LEGRAND EVOLUTION EFSB4 IN-WALL BOX BEHIND MONITOR. CONNECT TO POKE THRU "PT-4" FOR ACCESSING POWER CIRCUIT, DATA, AND AV CONDUIT SYSTEM AND ASSOCIATED DEVICES. COORDINATE WALL BOX LOCATION WITH OWNER PROVIDED DISPLAY AND MOUNT INSTALLATION LOCATION. COORDINATE ALL REQUIREMENTS WITH OWNER/IT DEPARTMENT. VERIFY RECEPTACLE/DATA/AV MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO LOW VOLTAGE DRAWINGS AND DETAILS FOR FURTHER REQUIREMENTS.
- FURNISH AND INSTALL LEGRAND EVOLUTION FIRE RATED SERIES POKE THRU DEVICE WITH MOUNTING BRACKET AND DECORA STYLE PLATES FOR EACH COMPONENT. VERIFY POKE THRU LOCATION AND FINISH WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. COORDINATE WITH TECHNOLOGY CONTRACTOR AS REQUIRED FOR BOX CONDUIT AND INSTALLATION. COORDINATE ALL REQUIREMENTS INCLUDING BUT NOT LIMITED TO DEVICES AND MOUNTING PLATES REQUIRED WITH OWNER AND TECHNOLOGY CONTRACTOR PRIOR TO ORDERING. BOX TO INCLUDE A MINIMUM OF (2) DUPLEX RECEPTACLES, (4) DATA JACKS AND CABLES, AV AND CABLES, AND HDBASET. POKE THRU SHALL INCLUDE (1) CONTROLLED DUPLEX RECEPTACLE CONTROLLED VIA LOCAL LIGHTING CONTROLS. RADAR SCAN FLOOR FOR CONTENTS AND SURVEY ABOVE CEILING CONDITIONS BELOW FOR CONTENTS AND UPON DETERMINING THAT AREA IS CLEAR OF PIPING, CORE AND REMOVE FLOOR AS REQUIRED FOR NEW POKE THRU AND RACEWAY SYSTEM. CONNECT TO AREA CIRCUIT OF SUFFICIENT SIZE OR AS SHOWN. TRANSITION TO METALLIC RACEWAY UP INSIDE WALL. SET POKE THRU LEVEL AND FLUSH WITH FINAL FINISHED FLOOR MATERIAL MOUNTING HEIGHT. COORDINATE FLOOR MATERIAL TYPE AND THICKNESS WITH ARCHITECT. PATCH AND REPAIR FLOOR AS REQUIRED. REMOVE ALL SPOILS AND DEBRIS FROM SITES ABOVE AND BELOW. PROVIDE PROTECTION TO AREAS BELOW WHEN CORING AND INSTALLING DEVICE. REFER TO LOW VOLTAGE DRAWINGS AND DETAILS FOR LOW VOLTAGE CONDUIT SIZES AND REQUIREMENTS. REFER TO FLOORBOX/POKE THRU SCHEDULE FOR MAKE AND MODEL NUMBER. CONTROLLED RECEPTACLE SHALL HAVE PERMANENT MARKING INDICATING CONTROLLED STATUS PER IECC 2021 REQUIREMENTS.
- COORDINATE MOUNTING HEIGHT OF KITCHENETTE RECEPTACLES WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- FURNISH AND INSTALL SPLIT CONTROLLED RECEPTACLE (DUPLEX OR QUAD AS SHOWN) WITH NEW BRANCH CIRCUIT AS SHOWN. CLEARLY MARK CONTROLLED PORTION OF RECEPTACLE PER IECC 2021. PROVIDE FULLY CONTROLLED RECEPTACLES FOR USB AND GFCI TYPE RECEPTACLES. REFER TO DETAIL ON SHEET E41-01 FOR ADDITIONAL INFORMATION.
- FURNISH AND INSTALL NEW LEGRAND EVOLUTION FIRE RATED SERIES POKE THRU DEVICE FOR FURNITURE POWER FEED TO MODULAR FURNITURE. VERIFY POKE THRU LOCATION AND FINISH WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. COORDINATE WITH TECHNOLOGY CONTRACTOR AS REQUIRED FOR BOX CONDUIT AND INSTALLATION. COORDINATE ALL REQUIREMENTS WITH OWNER AND TECHNOLOGY CONTRACTOR PRIOR TO ORDERING. RADAR SCAN FLOOR FOR CONTENTS AND SURVEY ABOVE CEILING CONDITIONS BELOW FOR CONTENTS AND UPON DETERMINING THAT AREA IS CLEAR OF PIPING, CORE AND REMOVE FLOOR AS REQUIRED FOR NEW POKE THRU AND RACEWAY SYSTEM. CONNECT TO AREA CIRCUIT OF SUFFICIENT SIZE OR AS SHOWN. TRANSITION TO METALLIC RACEWAY UP INSIDE WALL. SET POKE THRU LEVEL AND FLUSH WITH FINAL FINISHED FLOOR MATERIAL MOUNTING HEIGHT. COORDINATE FLOOR MATERIAL TYPE AND THICKNESS WITH ARCHITECT. PATCH AND REPAIR FLOOR AS REQUIRED. REMOVE ALL SPOILS AND DEBRIS FROM SITE ABOVE AND BELOW. PROVIDE PROTECTION TO AREAS BELOW WHEN CORING AND INSTALLING DEVICE. FURNISH AND INSTALL FLEXIBLE LIQUIDTIGHT CONDUIT TO ROUTE POWER AND DATA CABLE TO MODULAR FURNITURE TERMINAL BLOCKS. "THREE CIRCUIT-SEPARATE NEUTRALS (3+1)" WIRING DIAGRAM FROM MANUFACTURER SHALL BE THE BASIS OF DESIGN. CONDUIT SHALL BE A MINIMUM SIZE 3/4" FOR POWER. VERIFY POINTS OF CONNECTION, COMPATIBLE CONDUIT SIZES REQUIRED, QUANTITY OF CONDUITS REQUIRED, AND FINAL WIRING SCHEMATIC WITH MANUFACTURER PRIOR TO START OF WORK. PROVIDE MULTIPLE FEEDS AND POKE THRU'S AS REQUIRED. PROVIDE ALL REQUIRED HARDWARE. COORDINATE ALL WORK REQUIRED WITH FURNITURE MANUFACTURER. REFER TO FLOORBOX SCHEDULE FOR MAKE AND MODEL NUMBER.
- INTEGRAL RECEPTACLES PROVIDED BY OTHERS IN MODULAR FURNITURE. EACH WORKSTATION COMES WITH (2) DUPLEX HARDWIRED RECEPTACLES. (1) DUPLEX RECEPTACLE PER WORKSTATION SHALL BE A PERMANENTLY MARKED CONTROLLED RECEPTACLE CONTROLLED VIA LOCAL LIGHTING CONTROL. COORDINATE FINAL RECEPTACLE COUNT WITH FURNITURE MANUFACTURER PRIOR TO START OF WORK.
- COORDINATE FINAL LOCATION OF NLIGHT ECLYPSE CONTROLLER IN FIELD PRIOR TO INSTALLATION.
- FURNISH AND INSTALL DUPLEX RECEPTACLE IN LEGRAND EVOLUTION EFSB IN-WALL BOX BEHIND MONITOR AND CHIEF CHPAC526WP4 IN-WALL BOX BELOW. COORDINATE WALL BOX LOCATIONS WITH OWNER PROVIDED DISPLAY AND MOUNT INSTALLATION LOCATION. COORDINATE ALL REQUIREMENTS WITH OWNER/IT DEPARTMENT. VERIFY RECEPTACLE/DATA/AV MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO LOW VOLTAGE DRAWINGS AND DETAILS FOR FURTHER REQUIREMENTS.
- FURNISH AND INSTALL NEW WALL MOUNTED 15KVA 480V/208V TRANSFORMER. REFER TO RISER DIAGRAM FOR COMPLETE ELECTRICAL DETAILS. COORDINATE FINAL LOCATION IN FIELD PRIOR TO INSTALLATION.
- FURNISH AND INSTALL NEW PANELBOARD. REFER TO RISER DIAGRAM FOR COMPLETE ELECTRICAL DETAILS. COORDINATE FINAL LOCATION IN FIELD PRIOR TO INSTALLATION.
- WORKSTATION RECEPTACLE SHALL BE CONTROLLED VIA LOCAL LIGHTING CONTROLS.
- FURNISH AND INSTALL LEGRAND EVOLUTION FIRE RATED SERIES POKE THRU DEVICE WITH MOUNTING BRACKET AND DECORA STYLE PLATES FOR EACH COMPONENT. VERIFY POKE THRU LOCATION AND FINISH WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. COORDINATE WITH TECHNOLOGY CONTRACTOR AS REQUIRED FOR BOX CONDUIT AND INSTALLATION. COORDINATE ALL REQUIREMENTS INCLUDING BUT NOT LIMITED TO DEVICES AND MOUNTING PLATES REQUIRED WITH OWNER AND TECHNOLOGY CONTRACTOR PRIOR TO ORDERING. BOX TO INCLUDE A MINIMUM OF (8) DATA JACKS AND CABLES. RADAR SCAN FLOOR FOR CONTENTS AND SURVEY ABOVE CEILING CONDITIONS BELOW FOR CONTENTS AND UPON DETERMINING THAT AREA IS CLEAR OF PIPING, CORE AND REMOVE FLOOR AS REQUIRED FOR NEW POKE THRU AND RACEWAY SYSTEM. CONNECT TO AREA CIRCUIT OF SUFFICIENT SIZE OR AS SHOWN. TRANSITION TO METALLIC RACEWAY UP INSIDE WALL. SET POKE THRU LEVEL AND FLUSH WITH FINAL FINISHED FLOOR MATERIAL MOUNTING HEIGHT. COORDINATE FLOOR MATERIAL TYPE AND THICKNESS WITH ARCHITECT. PATCH AND REPAIR FLOOR AS REQUIRED. REMOVE ALL SPOILS AND DEBRIS FROM SITES ABOVE AND BELOW. PROVIDE PROTECTION TO AREAS BELOW WHEN CORING AND INSTALLING DEVICE. REFER TO LOW VOLTAGE DRAWINGS AND DETAILS FOR LOW VOLTAGE CONDUIT SIZES AND REQUIREMENTS. REFER TO FLOORBOX/POKE THRU SCHEDULE FOR MAKE AND MODEL NUMBER.

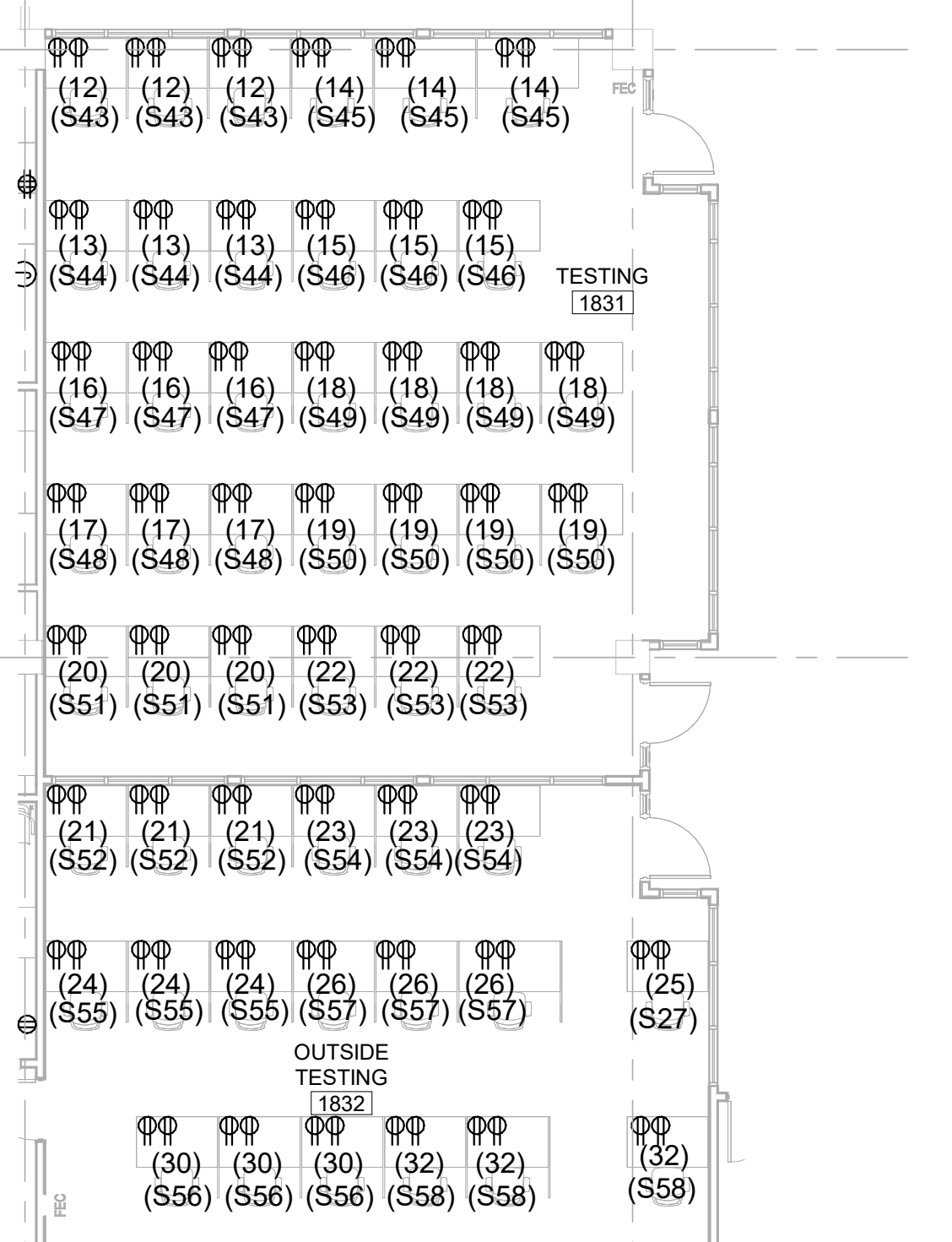
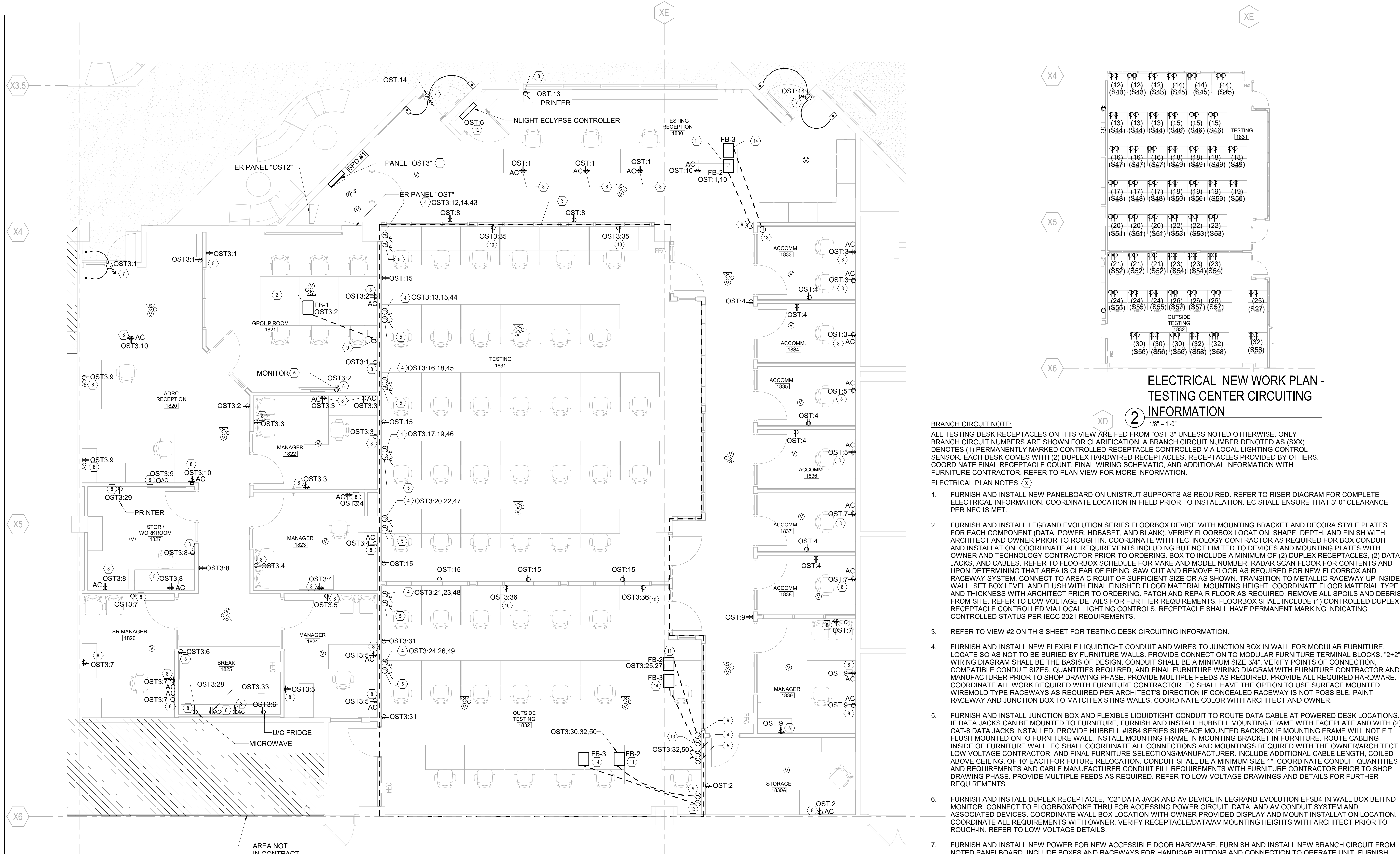


GENERAL ELECTRICAL NOTES:
A. COORDINATE MOUNTING HEIGHT AND LOCATIONS OF RECEPTACLES WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

ELECTRICAL NEW WORK PLAN - TECH HUB
1/4" = 1'-0"

BRANCH CIRCUIT NOTE:
ALL RECEPTACLES AND DEVICES ON THIS VIEW ARE FED FROM "2L-22-2" UNLESS NOTED OTHERWISE. ONLY BRANCH CIRCUIT NUMBERS ARE SHOWN.

REFER TO SHEET E10-03 FOR ADDITIONAL LOW VOLTAGE REQUIREMENTS.



ELECTRICAL NEW WORK PLAN - TESTING CENTER CIRCUITING INFORMATION

BRANCH CIRCUIT NOTE:
ALL TESTING DESK RECEPTACLES ON THIS VIEW ARE FED FROM "OST-3" UNLESS NOTED OTHERWISE. ONLY BRANCH CIRCUIT NUMBERS ARE SHOWN FOR CLARIFICATION. A BRANCH CIRCUIT NUMBER DENOTED AS (SXX) DENOTES (1) PERMANENTLY MARKED CONTROLLED RECEPTACLE CONTROLLED VIA LOCAL LIGHTING CONTROL SENSOR. EACH DESK COMES WITH (2) DUPLEX HARDWIRED RECEPTACLES. RECEPTACLES PROVIDED BY OTHERS. COORDINATE FINAL RECEPTACLE COUNT, FINAL WIRING SCHEMATIC, AND ADDITIONAL INFORMATION WITH FURNITURE CONTRACTOR. REFER TO PLAN VIEW FOR MORE INFORMATION.

ELECTRICAL PLAN NOTES (X)

- FURNISH AND INSTALL NEW PANELBOARD ON UNISTRUT SUPPORTS AS REQUIRED. REFER TO RISER DIAGRAM FOR COMPLETE ELECTRICAL INFORMATION. COORDINATE LOCATION IN FIELD PRIOR TO INSTALLATION. EC SHALL ENSURE THAT 3'-0" CLEARANCE PER NEC IS MET.
- FURNISH AND INSTALL LEGRAND EVOLUTION SERIES FLOORBOX DEVICE WITH MOUNTING BRACKET AND DECORA STYLE PLATES FOR EACH COMPONENT (DATA, POWER, HDBASET, AND BLANK). VERIFY FLOORBOX LOCATION, SHAPE, DEPTH, AND FINISH WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. COORDINATE WITH TECHNOLOGY CONTRACTOR AS REQUIRED FOR BOX CONDUIT AND INSTALLATION. COORDINATE ALL REQUIREMENTS INCLUDING BUT NOT LIMITED TO DEVICES AND MOUNTING PLATES WITH OWNER AND TECHNOLOGY CONTRACTOR PRIOR TO ORDERING. BOX TO INCLUDE A MINIMUM OF (2) DUPLEX RECEPTACLES, (2) DATA JACKS, AND CABLES. REFER TO FLOORBOX SCHEDULE FOR MAKE AND MODEL NUMBER. RADAR SCAN FLOOR FOR CONTENTS AND UPON DETERMINING THAT AREA IS CLEAR OF PIPING, SAW CUT AND REMOVE FLOOR AS REQUIRED FOR NEW FLOORBOX AND RACEWAY SYSTEM. CONNECT TO AREA CIRCUIT OF SUFFICIENT SIZE OR AS SHOWN. TRANSITION TO METALLIC RACEWAY UP INSIDE WALL. SET BOX LEVEL AND FLUSH WITH FINAL FINISHED FLOOR MATERIAL MOUNTING HEIGHT. COORDINATE FLOOR MATERIAL TYPE AND THICKNESS WITH ARCHITECT PRIOR TO ORDERING. PATCH AND REPAIR FLOOR AS REQUIRED. REMOVE ALL SPOILS AND DEBRIS FROM SITE. REFER TO LOW VOLTAGE DETAILS FOR FURTHER REQUIREMENTS. FLOORBOX SHALL INCLUDE (1) CONTROLLED DUPLEX RECEPTACLE CONTROLLED VIA LOCAL LIGHTING CONTROLS. RECEPTACLE SHALL HAVE PERMANENT MARKING INDICATING CONTROLLED STATUS PER IECC 2021 REQUIREMENTS.
- REFER TO VIEW #2 ON THIS SHEET FOR TESTING DESK CIRCUITING INFORMATION.
- FURNISH AND INSTALL NEW FLEXIBLE LIQUIDTIGHT CONDUIT AND WIRES TO JUNCTION BOX IN WALL FOR MODULAR FURNITURE. LOCATE SO AS NOT TO BE BURIED BY FURNITURE WALLS. PROVIDE CONNECTION TO MODULAR FURNITURE TERMINAL BLOCKS. "2+2" WIRING DIAGRAM SHALL BE THE BASIS OF DESIGN. CONDUIT SHALL BE A MINIMUM SIZE 3/4". VERIFY POINTS OF CONNECTION, COMPATIBLE CONDUIT SIZES, QUANTITIES REQUIRED, AND FINAL FURNITURE WIRING DIAGRAM WITH FURNITURE CONTRACTOR AND MANUFACTURER PRIOR TO SHOP DRAWING PHASE. PROVIDE MULTIPLE FEEDS AS REQUIRED. PROVIDE ALL REQUIRED HARDWARE. COORDINATE ALL WORK REQUIRED WITH FURNITURE CONTRACTOR. EC SHALL HAVE THE OPTION TO USE SURFACE MOUNTED WIREMOLD TYPE RACEWAYS AS REQUIRED PER ARCHITECT'S DIRECTION IF CONCEALED RACEWAY IS NOT POSSIBLE. PAINT RACEWAY AND JUNCTION BOX TO MATCH EXISTING WALLS. COORDINATE COLOR WITH ARCHITECT AND OWNER.
- FURNISH AND INSTALL JUNCTION BOX AND FLEXIBLE LIQUIDTIGHT CONDUIT TO ROUTE DATA CABLE AT POWERED DESK LOCATIONS. IF DATA JACKS CAN BE MOUNTED TO FURNITURE, FURNISH AND INSTALL HUBBELL MOUNTING FRAME WITH FACEPLATE AND WITH (2) CAT-6 DATA JACKS INSTALLED. PROVIDE HUBBELL HISB4 SERIES SURFACE MOUNTED BACKBOX IF MOUNTING FRAME WILL NOT FIT FLUSH MOUNTING FRAME IN MOUNTING BRACKET IN FURNITURE. INSTALL MOUNTING BRACKET IN FURNITURE. PROVIDE CABLEING INSIDE OF FURNITURE WALL. EC SHALL COORDINATE ALL CONNECTIONS AND MOUNTINGS REQUIRED WITH THE OWNER/ARCHITECT, LOW VOLTAGE CONTRACTOR, AND FINAL FURNITURE SELECTIONS/MANUFACTURER. INCLUDE ADDITIONAL CABLE LENGTH, COILED ABOVE CEILING, OF 10' EACH FOR FUTURE RELOCATION. CONDUIT SHALL BE A MINIMUM SIZE 1". COORDINATE CONDUIT QUANTITIES AND REQUIREMENTS WITH CABLE MANUFACTURER CONDUIT FILL REQUIREMENTS WITH FURNITURE CONTRACTOR PRIOR TO SHOP DRAWING PHASE. PROVIDE MULTIPLE FEEDS AS REQUIRED. REFER TO LOW VOLTAGE DRAWINGS AND DETAILS FOR FURTHER REQUIREMENTS.
- FURNISH AND INSTALL DUPLEX RECEPTACLE, "C2" DATA JACK AND AV DEVICE IN LEGRAND EVOLUTION EFSB4 IN-WALL BOX BEHIND MONITOR. CONNECT TO FLOORBOX/POKE THRU FOR ACCESSING POWER CIRCUIT, DATA, AND AV CONDUIT SYSTEM AND ASSOCIATED DEVICES. COORDINATE WALL BOX LOCATION WITH OWNER PROVIDED DISPLAY AND MOUNT INSTALLATION LOCATION. COORDINATE ALL REQUIREMENTS WITH OWNER. VERIFY RECEPTACLE/DATA/AV MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO LOW VOLTAGE DETAILS.
- FURNISH AND INSTALL NEW POWER FOR NEW ACCESSIBLE DOOR HARDWARE. FURNISH AND INSTALL NEW BRANCH CIRCUIT FROM NOTED PANELBOARD. INCLUDE BOXES AND RACEWAYS FOR HANDICAP BUTTONS AND CONNECTION TO OPERATE UNIT. FURNISH AND INSTALL NEW CONDUIT AND WIRES AS REQUIRED PER DOOR MANUFACTURER FOR A COMPLETE INSTALLATION. COORDINATE THE DOOR HARDWARE WITH THE ARCHITECT. COORDINATE BUTTON LOCATIONS AND TYPE WITH ARCHITECT PRIOR TO INSTALLATION.
- FURNISH AND INSTALL DUAL CONTROLLED RECEPTACLE (DUPLEX OR QUAD AS SHOWN) WITH NEW BRANCH CIRCUIT AS SHOWN. CLEARLY MARK CONTROLLED PORTION OF RECEPTACLE PER IECC 2021 REQUIREMENTS. PROVIDE FURNITURE CONTROLLED RECEPTACLES FOR USB AND GFCI TYPE RECEPTACLES. REFER TO DETAIL ON SHEET E41-01 FOR ADDITIONAL CONTROL INFORMATION.
- ROUTE CONDUIT FOR POWER TO WALL AS SHOWN. 3/4" MINIMUM SIZE. FURNISH AND INSTALL JUNCTION BOX WITH COVERPLATES AS REQUIRED. COORDINATE FINISH OF COVERPLATES WITH ARCHITECT. COORDINATE FINAL LOCATION PRIOR TO ROUGH-IN.
- COORDINATE MOUNTING HEIGHT OF RECEPTACLE AND DATA JACK WITH ARCHITECT FOR TESTING ROOM MONITOR PRIOR TO ROUGH-IN.
- FURNISH AND INSTALL NEW LEGRAND EVOLUTION FIRE RATED SERIES FLOORBOX DEVICE FOR FURNITURE POWER AND DATA FEED TO RECEPTACLES AND DATA JACKS. VERIFY FLOORBOX LOCATION AND FINISH WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. COORDINATE WITH TECHNOLOGY CONTRACTOR AS REQUIRED FOR BOX CONDUIT AND INSTALLATION. COORDINATE ALL REQUIREMENTS WITH OWNER AND TECHNOLOGY CONTRACTOR PRIOR TO ORDERING. PROVIDE CONNECTION TO MODULAR FURNITURE TERMINAL BLOCKS. "THREE-CIRCUIT, SEPARATE NEUTRALS" WIRING DIAGRAM FROM MANUFACTURER SHALL BE THE BASIS OF DESIGN. UNDER NO CIRCUMSTANCES ARE SHARED NEUTRALS BETWEEN CIRCUITS ALLOWED UNLESS WITH WRITTEN PERMISSION FROM THE OWNER. CONDUIT SHALL BE A MINIMUM SIZE 3/4" FOR POWER, 1" FOR DATA. PROVIDE MULTIPLE FLOORBOXES AND FEEDS AS REQUIRED. VERIFY POINTS OF CONNECTION, COMPATIBLE CONDUIT SIZES REQUIRED, QUANTITY OF CONDUITS REQUIRED, AND FINAL WIRING SCHEMATIC WITH MANUFACTURER PRIOR TO START OF WORK. PROVIDE ALL REQUIRED HARDWARE. REFER TO FLOORBOX SCHEDULE FOR MAKE AND MODEL. RADAR SCAN FLOOR AND UPON DETERMINING THAT AREA IS CLEAR OF PIPING, SAWCUT AND REMOVE FLOOR AS REQUIRED FOR NEW FLOORBOX AND RACEWAY SYSTEM. CONNECT TO AREA CIRCUIT OF SUFFICIENT SIZE OR AS SHOWN. TRANSITION TO METALLIC RACEWAY UP INSIDE WALL. SET BOX LEVEL AND FLUSH WITH FINAL FINISHED FLOOR MATERIAL MOUNTING HEIGHT. COORDINATE FLOOR MATERIAL TYPE AND THICKNESS WITH ARCHITECT PRIOR TO ORDERING. PATCH AND REPAIR FLOOR AS REQUIRED. REMOVE ALL SPOILS AND DEBRIS FROM SITE.
- COORDINATE FINAL LOCATION OF NLIGHT ECLYPSE CONTROLLER IN FIELD PRIOR TO INSTALLATION.
- ROUTE CONDUIT FOR DATA TO WALL AS SHOWN. 1" MINIMUM SIZE. FURNISH AND INSTALL JUNCTION BOX WITH COVERPLATES AS REQUIRED. COORDINATE FINISH OF COVERPLATES WITH ARCHITECT. COORDINATE FINAL LOCATION PRIOR TO ROUGH-IN.

ELECTRICAL NEW WORK PLAN - ADRC/TESTING CENTER

GENERAL ELECTRICAL NOTES:
A. COORDINATE MOUNTING HEIGHT AND LOCATIONS OF RECEPTACLES WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

ELECTRICAL PLAN NOTES (CONTINUED) (X)

14. FURNISH AND INSTALL LEGRAND EVOLUTION SERIES FLOORBOX DEVICE WITH MOUNTING BRACKET AND DECORA STYLE PLATES FOR EACH COMPONENT (DATA AND BLANK). VERIFY FLOORBOX LOCATION, SHAPE, DEPTH, AND FINISH WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. COORDINATE WITH TECHNOLOGY CONTRACTOR AS REQUIRED FOR BOX CONDUIT AND INSTALLATION. COORDINATE ALL REQUIREMENTS INCLUDING BUT NOT LIMITED TO DEVICES AND MOUNTING PLATES WITH OWNER AND TECHNOLOGY CONTRACTOR PRIOR TO ORDERING. REFER TO FLOORBOX SCHEDULE FOR MAKE AND MODEL NUMBER. RADAR SCAN FLOOR FOR CONTENTS AND UPON DETERMINING THAT AREA IS CLEAR OF PIPING, SAW CUT AND REMOVE FLOOR AS REQUIRED FOR NEW FLOORBOX AND RACEWAY SYSTEM. CONNECT TO AREA CIRCUIT OF SUFFICIENT SIZE OR AS SHOWN. TRANSITION TO METALLIC RACEWAY UP INSIDE WALL. SET BOX LEVEL AND FLUSH WITH FINAL FINISHED FLOOR MATERIAL MOUNTING HEIGHT. COORDINATE FLOOR MATERIAL TYPE AND THICKNESS WITH ARCHITECT PRIOR TO ORDERING. PATCH AND REPAIR FLOOR AS REQUIRED. REMOVE ALL SPOILS AND DEBRIS FROM SITE. REFER TO LOW VOLTAGE DETAILS FOR FURTHER REQUIREMENTS. FLOORBOX SHALL INCLUDE (1) CONTROLLED DUPLEX RECEPTACLE CONTROLLED VIA LOCAL LIGHTING CONTROLS. RECEPTACLE SHALL HAVE PERMANENT MARKING INDICATING CONTROLLED STATUS PER IECC 2021 REQUIREMENTS.

REFER TO SHEET E10-04 FOR ADDITIONAL LOW VOLTAGE REQUIREMENTS.

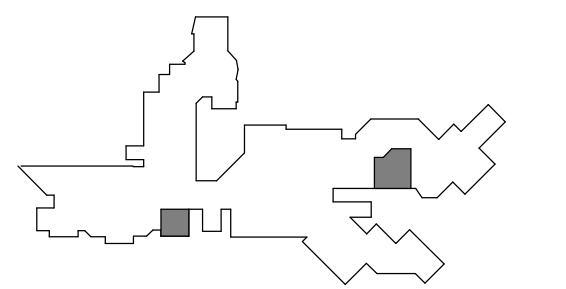
PROJECT ADJACENCIES RENOVATIONS

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016



ISSUED FOR BID 23 SEPTEMBER 24

KEY PLAN

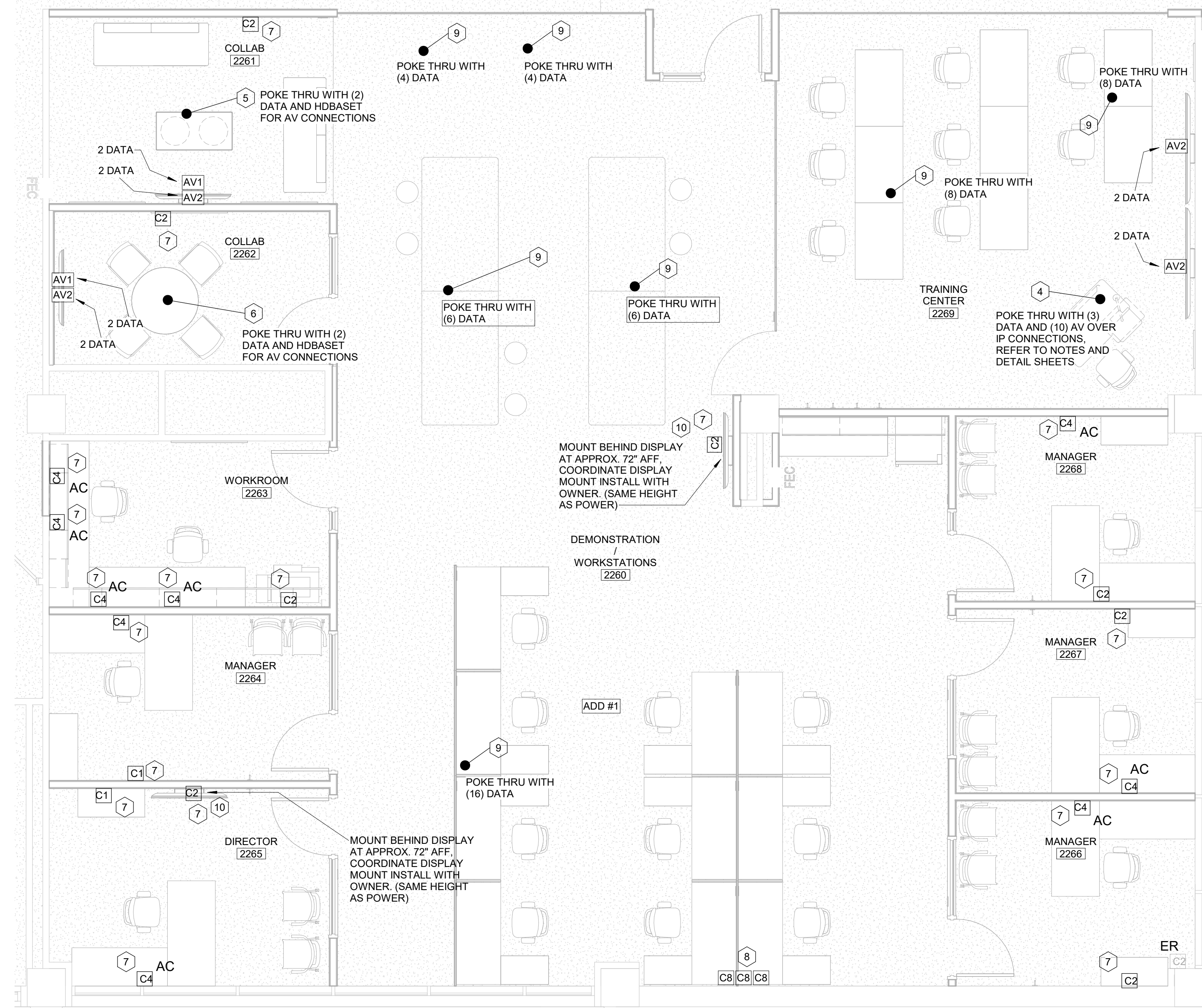


ISSUE CHART

ISSUE	ISSUED FOR BID	DATE
1	23 SEP 24	23 SEP 24
2	021074 000	

ELECTRICAL NEW WORK PLAN - PHASE 1 - ADRC/TESTING

SHEET NUMBER E10-02



LEVEL 02 LOW VOLTAGE NEW WORK
2 PLAN - TECH HUB
1/4" = 1'-0"

LOW VOLTAGE PLAN NOTES (X)

- FURNISH AND INSTALL NEW INTERCOM SYSTEM SPEAKER AND CONNECT TO EXISTING INTERCOM SYSTEM. SPEAKERS IN SAME ROOM/AREA SHALL BE ON SAME DEDICATED CIRCUIT. COORDINATE CIRCUITING REQUIREMENT WITH OWNER IN FIELD. SET POWER LEVEL IN ACCORDANCE WITH OWNER'S EXISTING SETTINGS FOR ROOMS OF SIMILAR SIZE AND TYPE.
- FURNISH AND INSTALL NEW DATA CONNECTION FOR OWNER FURNISHED AND INSTALL CEILING MOUNTED SECURITY CAMERA. REFER TO GENERAL CAT-6 NOTE AND DETAILS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
- FURNISH AND INSTALL NEW (1) CAT-6 DATA FOR OWNER FURNISHED AND INSTALLED WIRELESS ACCESS POINT. REFER TO GENERAL CAT-6 NOTE AND DETAIL SHEETS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
- FURNISH AND INSTALL THE FOLLOWING EQUIPMENT AND INFRASTRUCTURE FOR TRAINING CENTER 2269 AUDIO VISUAL SYSTEM (REFERENCE DETAIL SHEET E71-03 FOR ADDITIONAL DETAILS).
 - FURNISH AND INSTALL (3) NEW CAT-6 DATA CONNECTIONS IN 'PT-4'.
 - FURNISH AND INSTALL WEBCAM OVER IP DATA CONNECTION BETWEEN FLOOR BOX AND PTZ WEBCAM.
 - FURNISH AND INSTALL (6) HDBASET OVER IP DATA CONNECTIONS BETWEEN VARIOUS INPUTS AND OUTPUTS (REFER TO AV SYSTEM DETAIL).
 - FURNISH AND INSTALL (3) AUDIO OVER IP CONNECTIONS FOR CEILING MOUNTED SPEAKERS AND MICROPHONE.
 - CONTRACTOR TO INSTALL OWNER FURNISHED CEILING MOUNTED SHURE SPEAKERS (2) AND MICROPHONE AND ASSOCIATED CABLING TO POKE THRU.
 - FURNISH AND INSTALL ALL ASSOCIATED BACK BOXES, WALL BOXES AND CONDUIT IN EXISTING WALL TO SUPPORT OWNER AV SYSTEM (REFER TO AV SYSTEM DETAIL SHEET).
 - FURNISH AND INSTALL (2) DATA AND (2) HDBASET OVER IP CONNECTIONS IN LEGRAND EFSB43 WALL BOX FOR EACH DISPLAY. TWO SETS FOR THIS AV SYSTEM, ONE TO SUPPORT EACH DISPLAY.
 - FURNISH AND INSTALL WALL BACKING TO SUPPORT OWNER FURNISHED, CONTRACTOR INSTALLED DISPLAY MOUNTS. TWO LOCATIONS. COORDINATE THIS REQUIREMENT WITH ARCHITECTURAL DRAWINGS.
- FURNISH AND INSTALL THE FOLLOWING EQUIPMENT AND INFRASTRUCTURE FOR "COLLAB 2261" AUDIO VISUAL SYSTEM (REFERENCE DETAIL SHEET E71-03 FOR ADDITIONAL DETAILS).
 - FURNISH AND INSTALL (2) NEW CAT-6 DATA CONNECTIONS IN 'PT-1' AND (2) NEW CAT-6 DATA CONNECTIONS IN 'AV2' WALL BOX.
 - FURNISH AND INSTALL (2) HDBASET CONNECTION BETWEEN 'PT-1' AND 'AV2' WITH GREEN JACKS
 - FURNISH AND INSTALL ALL ASSOCIATED BACK BOXES, WALL BOXES AND CONDUIT IN NEW WALL TO SUPPORT OWNER AV SYSTEM (REFER TO AV SYSTEM DETAIL SHEET).
 - FURNISH AND INSTALL 'AV1' WALL BOX 'WMPAC525W' AT LOCATION SPECIFIED ON DRAWINGS AND (2) CAT-6 DATA CONNECTIONS IN NEW WALL BOX.
 - FURNISH AND INSTALL WALL BACKING TO SUPPORT OWNER FURNISHED, CONTRACTOR INSTALLED DISPLAY MOUNT. COORDINATE THIS REQUIREMENT WITH ARCHITECTURAL DRAWINGS.
 - INSTALL OWNER FURNISHED DISPLAYS (1) AND ASSOCIATED WALL MOUNT (1).
- FURNISH AND INSTALL THE FOLLOWING EQUIPMENT AND INFRASTRUCTURE FOR "COLLAB 2262" AUDIO VISUAL SYSTEM (REFERENCE DETAIL SHEET E71-03 FOR ADDITIONAL DETAILS).
 - FURNISH AND INSTALL (2) NEW CAT-6 DATA CONNECTIONS IN 'PT-1' AND (2) NEW CAT-6 DATA CONNECTIONS IN 'AV2' WALL BOX.
 - FURNISH AND INSTALL (2) HDBASET CONNECTION BETWEEN 'PT-1' AND 'AV2' WITH GREEN JACKS
 - FURNISH AND INSTALL ALL ASSOCIATED BACK BOXES, WALL BOXES AND CONDUIT IN NEW WALL TO SUPPORT OWNER AV SYSTEM (REFER TO AV SYSTEM DETAIL SHEET).
 - FURNISH AND INSTALL 'AV1' WALL BOX 'WMPAC525W' AT LOCATION SPECIFIED ON DRAWINGS AND (2) CAT-6 DATA CONNECTIONS IN NEW WALL BOX.
 - FURNISH AND INSTALL WALL BACKING TO SUPPORT OWNER FURNISHED, CONTRACTOR INSTALLED DISPLAY MOUNT. COORDINATE THIS REQUIREMENT WITH ARCHITECTURAL DRAWINGS.
 - INSTALL OWNER FURNISHED DISPLAYS (1) AND ASSOCIATED WALL MOUNT (1).
- FURNISH AND INSTALL NEW DATA CAT-6 (QUANTITY AS SPECIFIED), REFER TO GENERAL CAT-6 NOTE. 'AC' REFERS TO ABOVE COUNTER INSTALLATION, COORDINATE WITH FURNITURE CONTRACTOR AND ARCHITECTURAL DRAWINGS.
- FURNISH AND INSTALL MULTIPLE LARGE 2 GANG DATA OUTLET BOXES WITH 8-PORT COMMSCOPE #M28L-262 SERIES FACEPLATES FOR QUANTITY NOTED ON DRAWING. FURNISH AND INSTALL BLANKS FOR OUTLETS NOT USED. FURNISH AND INSTALL ASSOCIATED JACKS, CABLES, PATCH CORDS AND LABELED COVER PLATES FOR EACH CAT-6 DATA CONNECTION. REFER TO GENERAL CAT-6 NOTE.
- FURNISH AND INSTALL CAT-6 DATA CABLES (QUANTITY AS SPECIFIED) IN NEW POKE THROUGH OR FLOOR BOX. REFER TO ELECTRICAL DRAWINGS FOR POKE THRU SCHEDULE AND ADDITIONAL INFORMATION. REFER TO GENERAL CAT-6 NOTE.
- FURNISH AND INSTALL WALL BACKING FOR OWNER FURNISHED, CONTRACTOR INSTALLED DISPLAY MOUNT AND DISPLAY.

NEW CEILING MOUNTED PTZ WEBCAM. FURNISHED BY OWNER. INSTALLED BY CONTRACTOR. COORDINATE FINAL LOCATION IN FIELD WITH OWNER. CABLING TO BE ROUTED TO NEW PT-4.

CONTRACTOR TO FURNISH AND INSTALL SUPPORT FOR OWNER FURNISH, CONTRACTOR INSTALLED DISPLAYS AND ASSOCIATED MOUNTS. REFER TO ARCHITECTURAL PLAN FOR MORE INFORMATION.

LOW VOLTAGE SYMBOL LIST

SYMBOL	DESCRIPTION	COMMENTS
C1 C2 C4	CAT-6 DATA CONNECTION AND QUANTITY	FURNISH AND INSTALL COMPLETE CAT-6 DATA JACKS, CABLES, PATCH AND LABELED COVER PLATES FOR EACH
WAP	WIRELESS ACCESS POINT	WIRELESS ACCESS POINT
S	INTERCOM / PA SYSTEM SPEAKER	
SS	AV SYSTEM SPEAKER	
AV1 AV2	AV SYSTEM WALL BOXES	FURNISH AND INSTALL DATA AND HDBASET COMPONENTS AS SPECIFIED IN NOTES AND DETAILS

GENERAL NOTES:

- REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION ON FLOOR BOX AND WALL BOX COORDINATION.
- REFER TO ELECTRICAL DRAWINGS TO COORDINATE DATA AND POWER OUTLET INSTALLATION HEIGHTS. IN GENERAL DATA AND POWER OUTLETS SHALL BE INSTALLED AT SAME HEIGHT.
- ALL CABLING SHALL BE PLENUM RATED.
- REFER TO DETAILS AND NOTES FOR AV1 AND AV2 REQUIREMENTS, THESE REFER TO WALL BOXES WITH POWER, DATA AND HDBASET OVER IP CONNECTIONS.

GENERAL CAT-6 NOTE (TYPICAL)

FOR ALL CAT-6 DATA CONNECTIONS INDICATED ON DRAWINGS AND REFERENCED IN PLAN NOTES, CONTRACTOR SHALL FURNISH AND INSTALL ORIGINATING CABLE, JACKS AND TERMINATION AT BOTH ENDS AND ASSOCIATED COVER PLATES, PATCH CORDS TO BE FURNISHED AND INSTALLED BY OWNER. HDBASET CONNECTIONS ARE TO BE FURNISHED AND INSTALLED BY CONTRACTOR UTILIZING SAME CAT-6 ORIGINATING CABLE, USING GREEN JACKS. HDBASET CONNECTIONS ARE BETWEEN POKE THROUGH, FLOOR BOXES AND ASSOCIATED WALL BOXES AND DO NOT GO BACK TO IDF CLOSETS. WEBCAM CAT-6 CABLE TO BE FURNISHED AND INSTALLED BY CONTRACTOR UTILIZING PURPLE JACKS. ADDITIONAL CABLE LENGTH OF 20' SERVICE LOOP REQUIRED FOR DATA JACK CONNECTIONS MOUNTED ABOVE CEILING SYSTEMS. NO SERVICE LOOP IS REQUIRED FOR WALL OR FLOOR MOUNTED DATA INSTALLATIONS.

LEVEL 02 LOW VOLTAGE NEW RCP -
1 TECH HUB
1/4" = 1'-0"

REFER TO SHEET E10-01
ELECTRICAL SHEET FOR
FOR COORDINATION AND
ADDITIONAL INFORMATION

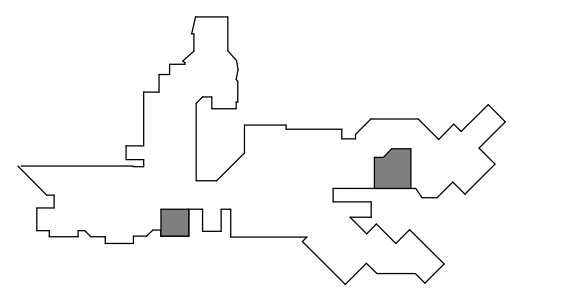
PROJECT
ADJACENCIES
RENOVATIONS

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016



ISSUED FOR BID 23 SEPTEMBER 24

KEY PLAN



ISSUE CHART

NO.	ISSUED FOR BID	23 SEP 24
DATE	DATE	DATE
1	ISSUE	ISSUE

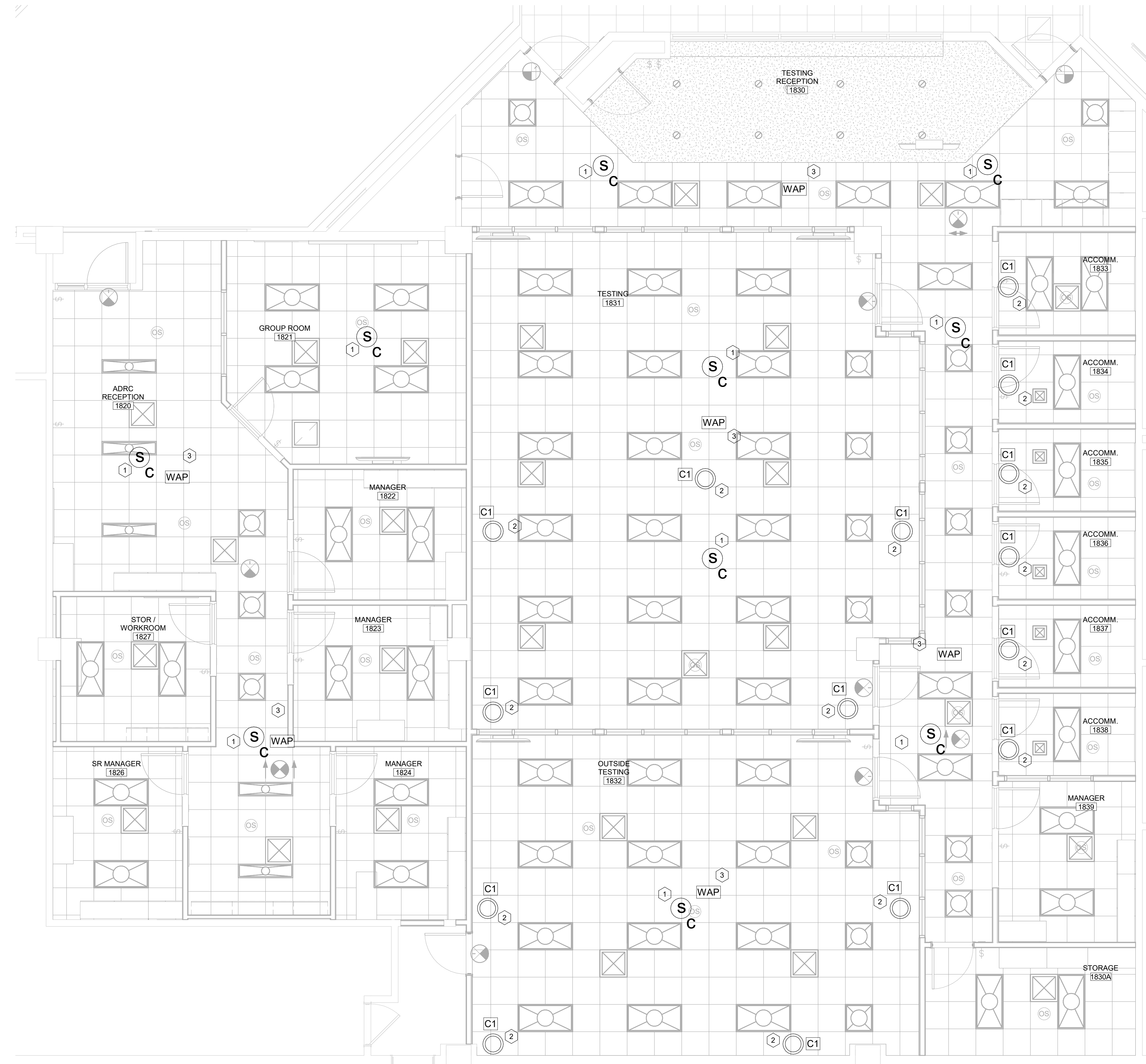
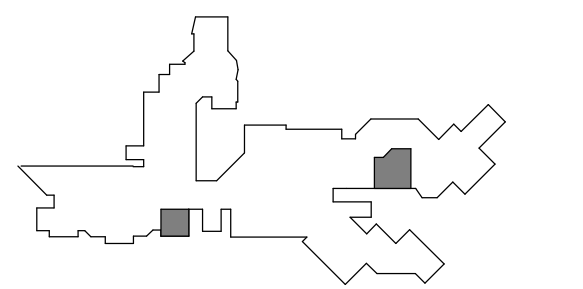
Job Number 021074 000

TITLE

LOW VOLTAGE NEW
PLAN AND RCP - PHASE
1 - TECH HUB

SHEET NUMBER

E10-03



LOW VOLTAGE PLAN NOTES

- FURNISH AND INSTALL NEW INTERCOM, PUBLIC ADDRESS, SYSTEM SPEAKER AND CONNECT TO EXISTING INTERCOM SYSTEM. SPEAKERS IN SAME ROOM/AREA SHALL BE ON SAME DEDICATED CIRCUIT. COORDINATE CIRCUITING REQUIREMENTS WITH OWNER IN FIELD. SET POWER LEVEL IN ACCORDANCE WITH OWNER'S EXISTING SETTINGS FOR ROOMS OF SIMILAR SIZE AND TYPE.
- FURNISH AND INSTALL NEW DATA CONNECTION FOR OWNER FURNISHED AND INSTALL CEILING MOUNTED SECURITY CAMERA. REFER TO GENERAL CAT-6 NOTE AND DETAILS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
- FURNISH AND INSTALL NEW (1) CAT-6 DATA FOR OWNER FURNISHED AND INSTALLED WIRELESS ACCESS POINT. REFER TO GENERAL CAT-6 NOTE AND DETAIL SHEETS FOR ADDITIONAL INSTALLATION REQUIREMENTS.

LOW VOLTAGE SYMBOL LIST

SYMBOL	DESCRIPTION	COMMENTS
C1 C2 C4	CAT-6 DATA CONNECTION AND QUANTITY	FURNISH AND INSTALL COMPLETE CAT-6 DATA JACKS, CABLES, PATCH AND LABELED COVER PLATES FOR EACH
WAP	WIRELESS ACCESS POINT	WIRELESS ACCESS POINT
S	INTERCOM / PA SYSTEM SPEAKER	
SS	AV SYSTEM SPEAKER	
AV1 AV2	AV SYSTEM WALL BOXES	FURNISH AND INSTALL DATA AND HDBASET COMPONENTS AS SPECIFIED IN NOTES AND DETAILS

GENERAL NOTES:
 -REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION ON FLOOR BOX AND WALL BOX COORDINATION
 -REFER TO ELECTRICAL DRAWINGS TO COORDINATE DATA AND POWER OUTLET INSTALLATION HEIGHTS. IN GENERAL DATA AND POWER OUTLETS SHALL BE INSTALLED AT SAME HEIGHT.
 -ALL CABLING SHALL BE PLENUM RATED.
 -REFER TO DETAILS AND NOTES FOR AV1 AND AV2 REQUIREMENTS, THESE REFER TO WALL BOXES WITH POWER, DATA AND HDBASET OVER IP CONNECTIONS.

GENERAL CAT-6 NOTE (TYPICAL)
 FOR ALL CAT-6 DATA CONNECTIONS INDICATED ON DRAWINGS AND REFERENCED IN PLAN NOTES, CONTRACTOR SHALL FURNISH AND INSTALL ORIENTATION CABLE. JACKS AND TERMINATION AT BOTH ENDS AND ASSOCIATED COVER PLATES. PATCH CORDS TO BE FURNISHED AND INSTALL BY OWNER. HDBASET CONNECTIONS ARE TO BE FURNISHED AND INSTALL BY CONTRACTOR UTILIZING SAME CAT-6 ORIENTATION CABLE. USING GREEN JACKS. HDBASET CONNECTIONS ARE BETWEEN POKE THROUGH, FLOOR BOXES AND ASSOCIATED WALL BOXES AND DO NOT GO BACK TO IDF CLOSETS. WEBCAM CAT-6 CABLE TO BE FURNISHED AND INSTALL BY CONTRACTOR UTILIZING PURPLE JACKS. ADDITIONAL CABLE LENGTH OF 20' SERVICE LOOP REQUIRED FOR DATA JACK CONNECTIONS MOUNTED ABOVE CEILING SYSTEMS. NO SERVICE LOOP IS REQUIRED FOR WALL OR FLOOR MOUNTED DATA INSTALLATIONS.

REFER TO SHEET E10-02
AND E10-05 SHEETS FOR
FOR COORDINATION AND
ADDITIONAL INFORMATION

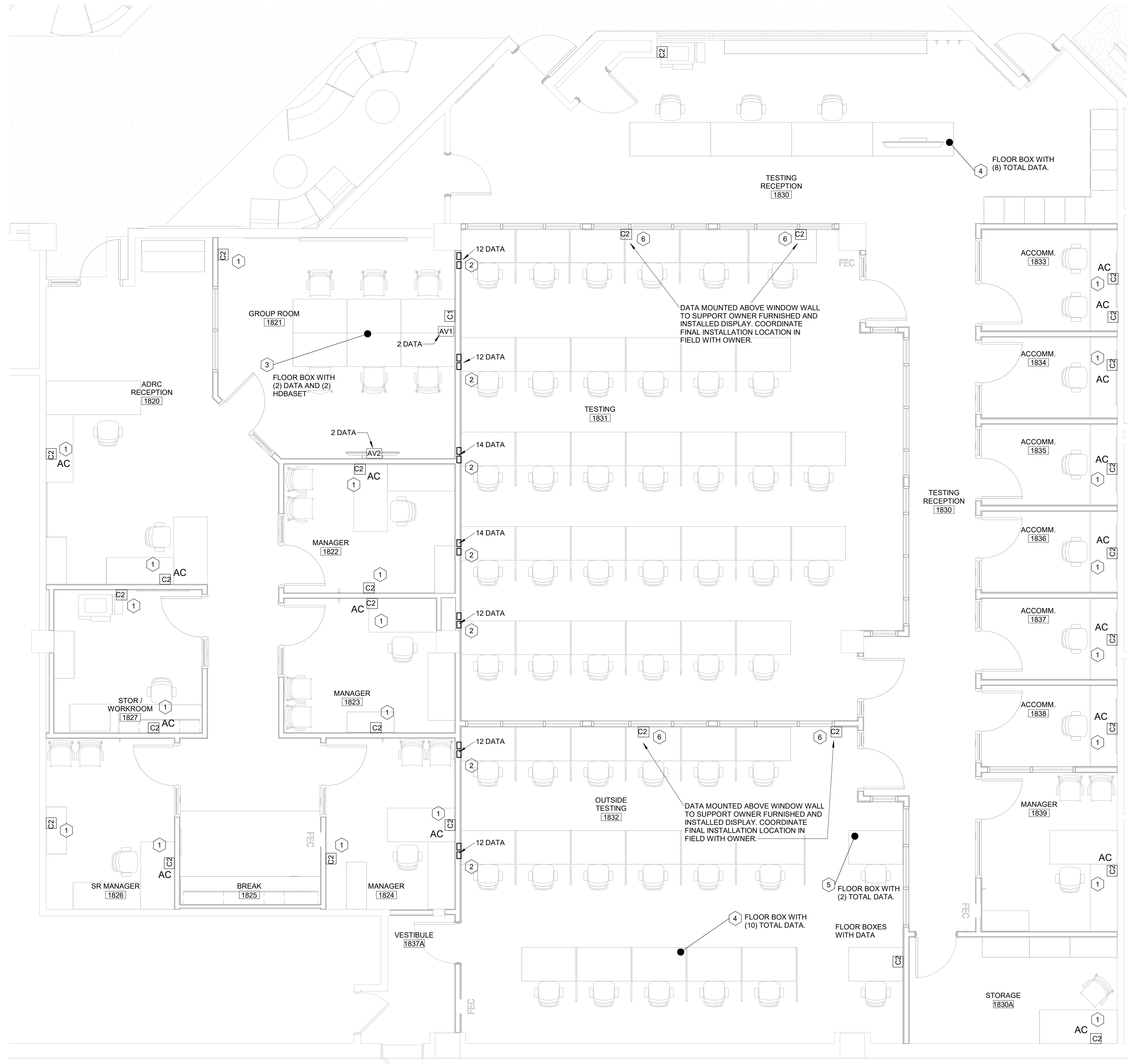
LEVEL 01 LOW VOLTAGE NEW RCP -
ADR/TESTING
1/4" = 1'-0"

ISSUED FOR BID	23 SEP 24
DATE	DATE
Job Number	021074 000
TITLE	

LOW VOLTAGE NEW
RCP - PHASE 1 -
ADR/TESTING

SHEET NUMBER

E10-04



LEVEL 01 LOW VOLTAGE NEW WORK
1 PLAN - ADRC/TESTING
1/4" = 1'-0"

LOW VOLTAGE PLAN NOTES (X)

- FURNISH AND INSTALL NEW DATA CAT-6 (QUANTITY AS SPECIFIED), REFER TO GENERAL CAT-6 NOTE. 'AC' REFERS TO ABOVE COUNTER INSTALLATION, COORDINATE WITH FURNITURE CONTRACTOR AND ARCHITECTURAL DRAWINGS.
- FURNISH AND INSTALL MULTIPLE LARGE 2 GANG DATA OUTLET BOXES WITH 8-PORT COMMSCOPE #M28L-262 SERIES FACEPLATES FOR QUANTITY NOTED ON DRAWING. FURNISH AND INSTALL BLANKS FOR OUTLETS NOT USED. FURNISH AND INSTALL ASSOCIATED JACKS, CABLES, PATCH CORDS AND LABELED COVER PLATES FOR EACH CAT-6 DATA CONNECTION. REFER TO GENERAL CAT-6 NOTE.
- FURNISH AND INSTALL THE FOLLOWING EQUIPMENT AND INFRASTRUCTURE FOR "GROUP ROOM 1821" AUDIO VISUAL SYSTEM (REFERENCE DETAIL SHEET E71-03 FOR ADDITIONAL DETAILS):
 - FURNISH AND INSTALL (2) NEW CAT-6 DATA CONNECTIONS IN 'FB-1' AND (2) NEW CAT-6 DATA CONNECTIONS IN 'AV2' WALL BOX.
 - FURNISH AND INSTALL (2) HDBASET CONNECTION BETWEEN 'FB-1' AND 'AV2' WITH GREEN JACKS
 - FURNISH AND INSTALL ALL ASSOCIATED BACK BOXES, WALL BOXES AND CONDUIT IN NEW WALL TO SUPPORT OWNER AV SYSTEM (REFER TO AV SYSTEM DETAIL SHEET).
 - FURNISH AND INSTALL 'AV1' WALL BOX 'WMPAC525W' AT LOCATION SPECIFIED ON DRAWINGS AND (2) CAT-6 DATA CONNECTIONS IN NEW WALL BOX.
 - FURNISH AND INSTALL WALL BACKING TO SUPPORT OWNER FURNISHED, CONTRACTOR INSTALLED DISPLAY MOUNT. COORDINATE THIS REQUIREMENT WITH ARCHITECTURAL DRAWINGS.
- INSTALL OWNER FURNISHED DISPLAYS (1) AND ASSOCIATED WALL MOUNT (1). FURNISH AND INSTALL COMPLETE CAT-6 DATA JACKS OF QUANTITY NOTED ON DRAWING IN NEW FLOOR BOX AND/OR POKE THRU. FURNISH AND INSTALL ASSOCIATED JACKS, CABLES, PATCH CORDS AND LABELED COVER PLATES FOR EACH CAT-6 DATA CONNECTION. REFER TO GENERAL CAT-6 NOTE.
- FURNISH AND INSTALL (2) CAT-6 DATA CONNECTIONS UTILIZING NEW FURNITURE FEED BOX SPARE ACCESS. TERMINATE JACKS FOR OWNER'S USE. REFER TO GENERAL CAT-6 NOTE.
- FURNISH AND INSTALL WALL BACKING FOR OWNER FURNISHED, CONTRACTOR INSTALLED DISPLAY MOUNT AND DISPLAY.

LOW VOLTAGE SYMBOL LIST

SYMBOL	DESCRIPTION	COMMENTS
C1 C2 C4	CAT-6 DATA CONNECTION AND QUANTITY	FURNISH AND INSTALL COMPLETE CAT-6 DATA JACKS, CABLES, PATCH AND LABELED COVER PLATES FOR EACH
WAP	WIRELESS ACCESS POINT	WIRELESS ACCESS POINT
C	INTERCOM / PA SYSTEM SPEAKER	
S	AV SYSTEM SPEAKER	
AV1 AV2	AV SYSTEM WALL BOXES	FURNISH AND INSTALL DATA AND HDBASET COMPONENTS AS SPECIFIED IN NOTES AND DETAILS

GENERAL NOTES:

- REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION ON FLOOR BOX AND WALL BOX COORDINATION.
- REFER TO ELECTRICAL DRAWINGS TO COORDINATE DATA AND POWER OUTLET INSTALLATION HEIGHTS. IN GENERAL DATA AND POWER OUTLETS SHALL BE INSTALLED AT SAME HEIGHT.
- ALL CABLING SHALL BE PLENUM RATED.
- REFER TO DETAILS AND NOTES FOR AV1 AND AV2 REQUIREMENTS, THESE REFER TO WALL BOXES WITH POWER, DATA AND HDBASET OVER IP CONNECTIONS.

GENERAL CAT-6 NOTE (TYPICAL)

FOR ALL CAT-6 DATA CONNECTIONS INDICATED ON DRAWINGS AND REFERENCED IN PLAN NOTES, CONTRACTOR SHALL FURNISH AND INSTALL ORIGINATION CABLE, JACKS AND TERMINATION AT BOTH ENDS AND ASSOCIATED COVER PLATES. PATCH CORDS TO BE FURNISHED AND INSTALL BY OWNER. HDBASET CONNECTIONS ARE TO BE FURNISHED AND INSTALL BY CONTRACTOR UTILIZING SAME CAT-6 ORIGINATION CABLE, USING GREEN JACKS. HDBASET CONNECTIONS ARE BETWEEN POKE THROUGH, FLOOR BOXES AND ASSOCIATED WALL BOXES AND DO NOT GO BACK TO IDF CLOSETS. WEBCAM CAT-6 CABLE TO BE FURNISHED AND INSTALL BY CONTRACTOR UTILIZING PURPLE JACKS. ADDITIONAL CABLE LENGTH OF 20' SERVICE LOOP REQUIRED FOR DATA JACK CONNECTIONS MOUNTED ABOVE CEILING SYSTEMS. NO SERVICE LOOP IS REQUIRED FOR WALL OR FLOOR MOUNTED DATA INSTALLATIONS.

REFER TO SHEET E10-02 & E10-04 SHEETS FOR FOR COORDINATION AND ADDITIONAL INFORMATION

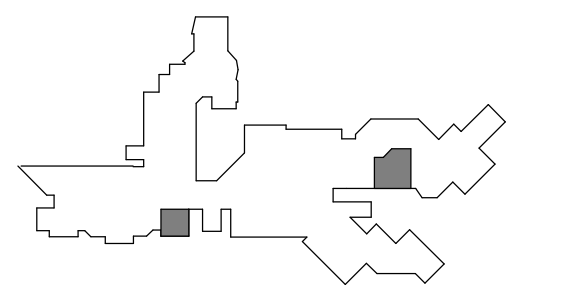
ISSUED FOR BID 23 SEPTEMBER 24

PROJECT
ADJACENCIES
RENOVATIONS

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016



KEY PLAN



ISSUE CHART

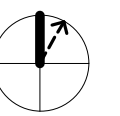
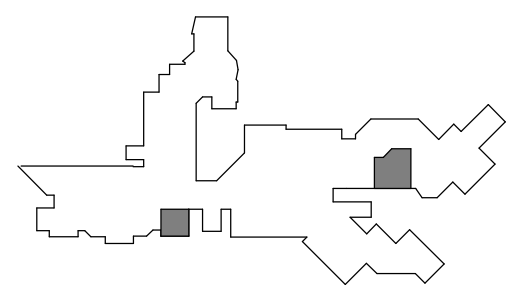
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DATE	DATE
Job Number	021074 000

TITLE

LOW VOLTAGE NEW
PLAN - PHASE 1 -
ADRC/TESTING

SHEET NUMBER

E10-05



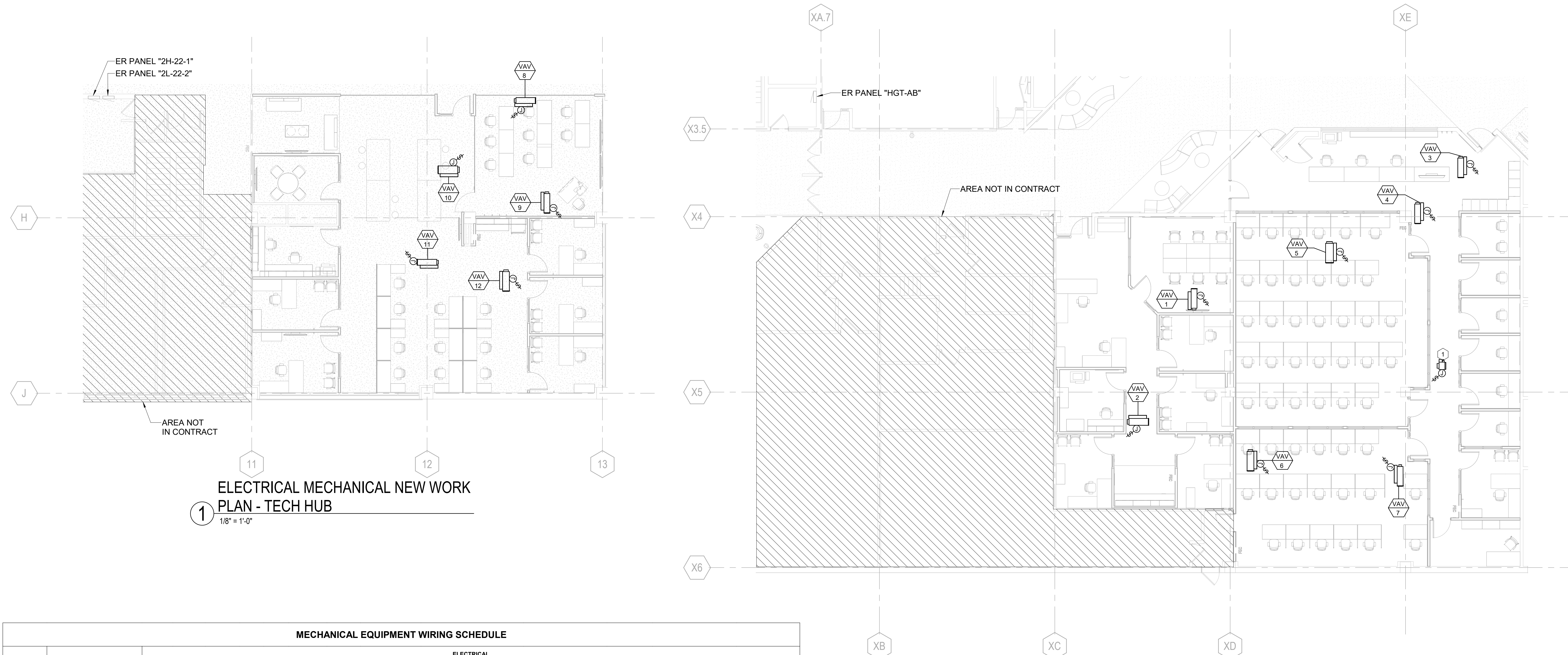
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DATE	DATE
Job Number	021074.000

TITLE

ELECTRICAL
MECHANICAL NEW
WORK PLANS - PHASE 1

SHEET NUMBER

E11-01



1
ELECTRICAL MECHANICAL NEW WORK
PLAN - TECH HUB
1/8" = 1'-0"

2
ELECTRICAL MECHANICAL NEW WORK
PLAN - ADRC/TESTING CENTER
1/8" = 1'-0"

ELECTRICAL PLAN NOTES (X)

1. RECONNECT EXISTING VAV TO EXISTING BRANCH CIRCUIT. EXTEND EXISTING CONDUIT AND WIRES AS REQUIRED. FURNISH AND INSTALL NEW 277V/1P MOTOR RATED TOGGLE SWITCH. VERIFY RATING OF TOGGLE SWITCH REQUIRED IN FIELD.
2. PROVIDE NEUTRAL AS REQUIRED FOR NEW VAV UNIT. COORDINATE REQUIREMENTS WITH MC.

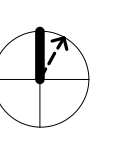
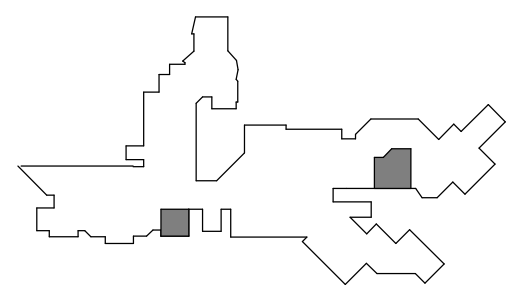
MECHANICAL EQUIPMENT WIRING SCHEDULE

EQUIPMENT TAG	DESCRIPTION	ELECTRICAL												
		VOLTS	PHASE	HP	AMPS (FLA)	AMPS (MCA)	WATTAGE	OCBP SIZE	CIRCUIT NUMBER	PANEL FEED	FEEDER SIZE	EQUIPMENT CONTROL TYPE	LOCAL DISCONNECT	POWER CONNECTION
VAV-1	VARIABLE AIR VOLUME BOX	277	1	-	-	-	2000	20A/1P	12	HGT-AB	2#12, 1#12GRD IN 3/4"C	-	20A/1P MOTOR RATED TOGGLE SWITCH	HARD WIRE
VAV-2	VARIABLE AIR VOLUME BOX	277	1	-	-	-	5000	35A/1P	22	HGT-AB	2#8, 1#10GRD IN 3/4"C	-	35A/1P MOTOR RATED TOGGLE SWITCH	HARD WIRE
VAV-3	VARIABLE AIR VOLUME BOX	277	1	-	-	-	2000	20A/1P	16	HGT-AB	2#12, 1#12GRD IN 3/4"C	-	20A/1P MOTOR RATED TOGGLE SWITCH	HARD WIRE
VAV-4	VARIABLE AIR VOLUME BOX	277	1	-	-	-	2500	20A/1P	18	HGT-AB	2#12, 1#12GRD IN 3/4"C	-	20A/1P MOTOR RATED TOGGLE SWITCH	HARD WIRE
VAV-5	VARIABLE AIR VOLUME BOX	480	3	-	-	-	9500	20A/3P	24,26,28	HGT-AB	4#12, 1#12GRD IN 3/4"C	-	30A/3P NON-FUSED DISCONNECT SWITCH	HARD WIRE
VAV-6	VARIABLE AIR VOLUME BOX	480	3	-	-	-	6500	20A/3P	30,32,34	HGT-AB	4#12, 1#12GRD IN 3/4"C	-	30A/3P NON-FUSED DISCONNECT SWITCH	HARD WIRE
VAV-7	VARIABLE AIR VOLUME BOX	277	1	-	-	-	1500	20A/1P	20	HGT-AB	2#12, 1#12GRD IN 3/4"C	-	20A/1P MOTOR RATED TOGGLE SWITCH	HARD WIRE
VAV-8	VARIABLE AIR VOLUME BOX	277	1	-	-	-	4000	25A/1P	13	2H-22-1	2#10, 1#10GRD IN 3/4"C	-	30A/1P MOTOR RATED TOGGLE SWITCH	HARD WIRE
VAV-9	VARIABLE AIR VOLUME BOX	277	1	-	-	-	2000	20A/1P	15	2H-22-1	2#12, 1#12GRD IN 3/4"C	-	20A/1P MOTOR RATED TOGGLE SWITCH	HARD WIRE
VAV-10	VARIABLE AIR VOLUME BOX	480	3	-	-	-	7500	20A/3P	14,16,18	2H-22-1	4#12, 1#12GRD IN 3/4"C	-	30A/3P NON-FUSED DISCONNECT SWITCH	HARD WIRE
VAV-11	VARIABLE AIR VOLUME BOX	277	1	-	-	-	2500	20A/1P	17	2H-22-1	2#12, 1#12GRD IN 3/4"C	-	20A/1P MOTOR RATED TOGGLE SWITCH	HARD WIRE
VAV-12	VARIABLE AIR VOLUME BOX	480	3	-	-	-	6000	20A/3P	20,22,24	2H-22-1	4#12, 1#12GRD IN 3/4"C	-	30A/3P NON-FUSED DISCONNECT SWITCH	HARD WIRE

SCHEDULE NOTES:

- A. COORDINATE FINAL MOCIP REQUIREMENTS WITH MC PRIOR TO ORDERING CIRCUIT BREAKERS AND LOCAL DISCONNECTING MEANS.

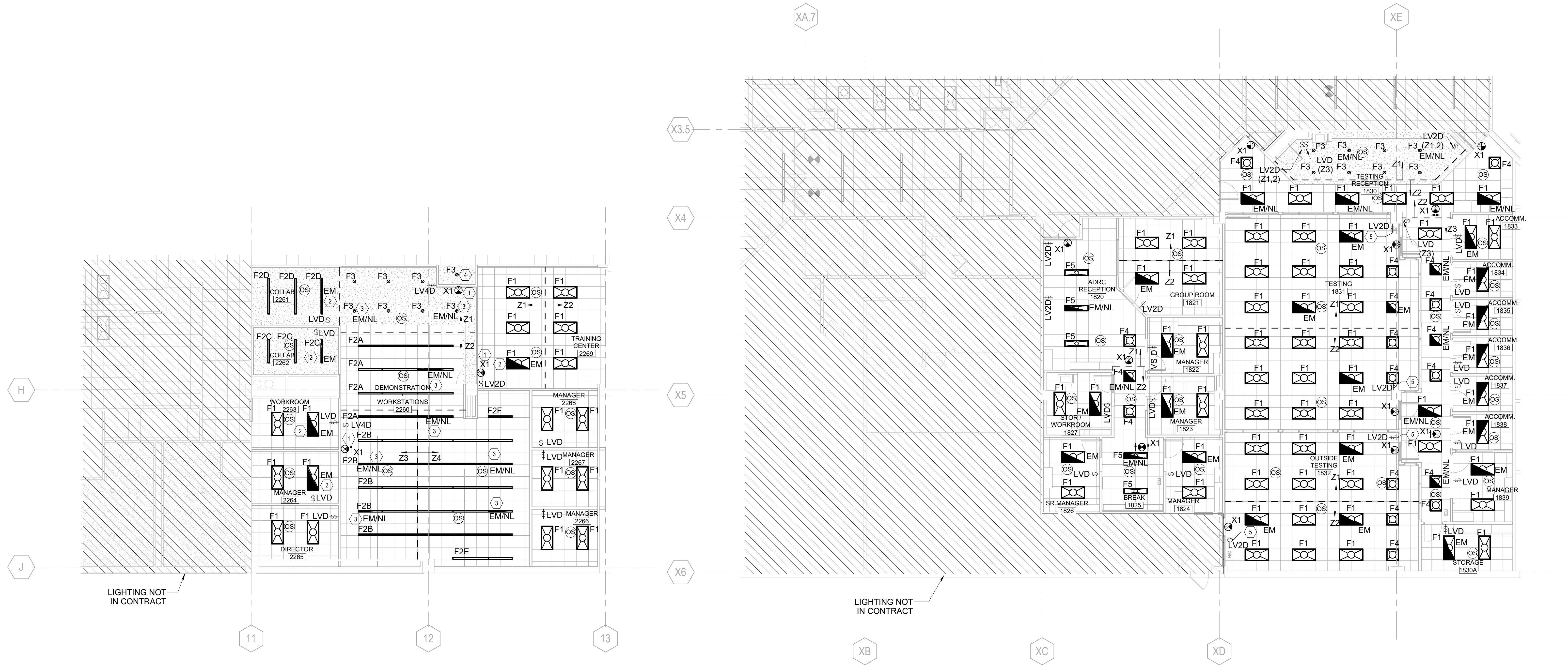
ISSUED FOR BID 23 SEPTEMBER 24



ISSUED FOR BID	23 SEP 24
DATE	DATE
Job Number	021074.000
TITLE	

LIGHTING NEW WORK
PLANS - PHASE 1

E12-01



1 LIGHTING NEW WORK PLAN - TECH HUB
1/8" = 1'-0"

2 LIGHTING NEW WORK PLAN - ADRC/TESTING CENTER
1/8" = 1'-0"

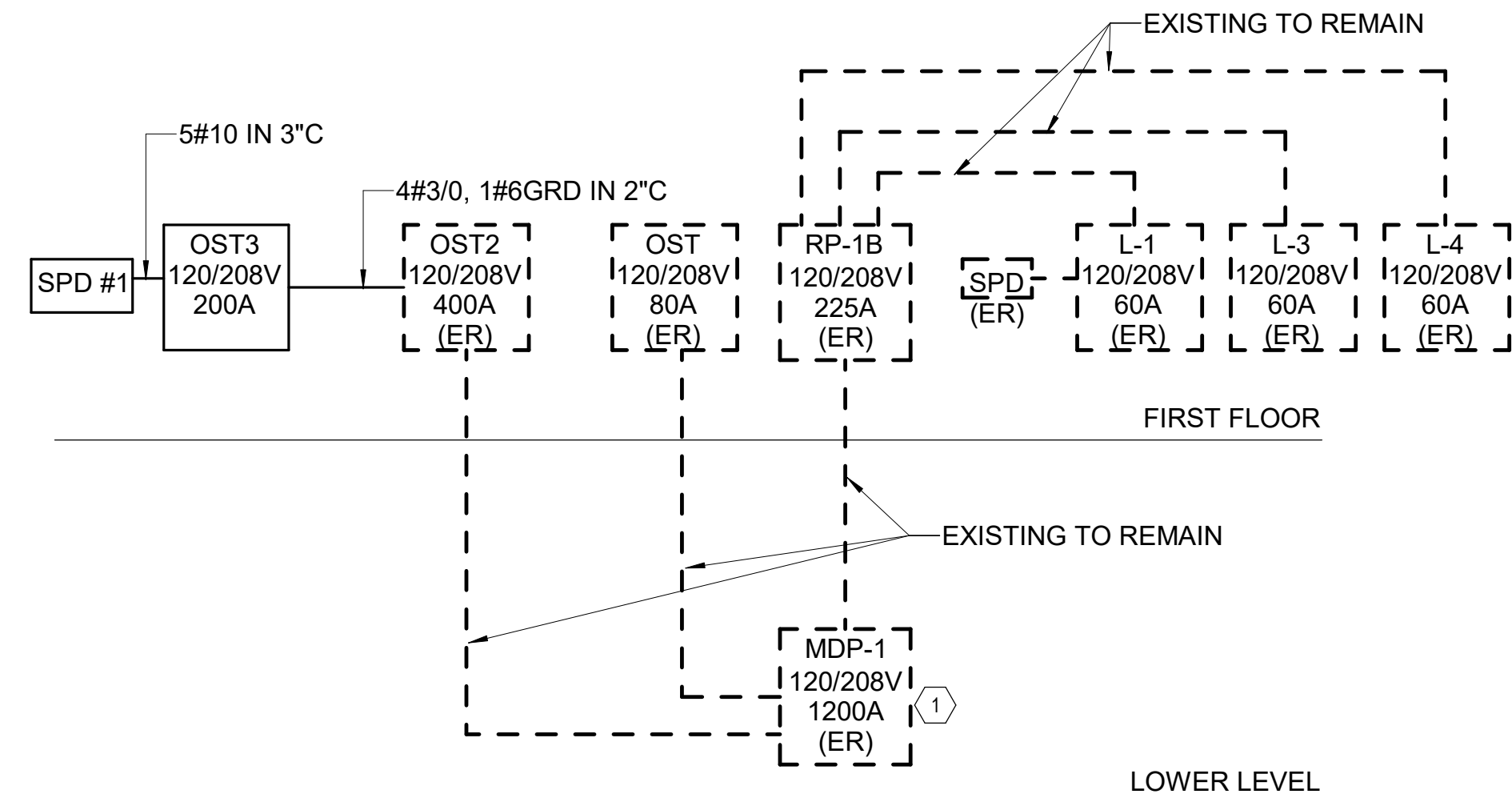
- GENERAL ELECTRICAL NOTES:**
- REUSE EXISTING BRANCH CIRCUITS FOR ALL NEW LIGHT FIXTURES UNLESS NOTED OTHERWISE. EXTEND EXISTING CONDUIT AND WIRES AS REQUIRED. RECONNECT EXISTING EMERGENCY CIRCUITS TO NEW FIXTURES AS SHOWN. FURNISH AND INSTALL NEW CONTROLS AS SHOWN. ZONING SHALL BE PROGRAMMED AS SHOWN ON DRAWINGS.
 - ALL EXIT SIGNS SHALL BE CONNECTED TO EXISTING EMERGENCY EXIT SIGN BRANCH CIRCUIT UNLESS NOTED OTHERWISE. EXTEND EXISTING CONDUIT AND WIRES AS REQUIRED. USE #10 WIRE FOR 277V CIRCUITS LONGER THAN 200 FEET.
 - ALL NIGHT LIGHTS SHALL BE RECONNECTED TO EXISTING NIGHT LIGHT BRANCH CIRCUIT AHEAD OF LOCAL CONTROLS. EXTEND EXISTING CONDUIT AND WIRES AS REQUIRED. USE #10 WIRE FOR 277V CIRCUITS LONGER THAN 200 FEET.
 - VERIFY EXISTING LIGHTING BRANCH CIRCUIT VOLTAGE IN FIELD PRIOR TO ORDERING FIXTURES.
 - COORDINATE LIGHT SWITCH LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
 - COORDINATE MOUNTING OF CEILING MOUNTED CONTROL DEVICES WITH ARCHITECT PRIOR TO START OF WORK. ENSURE MAXIMUM COVERAGE IS ACHIEVED.

- ELECTRICAL PLAN NOTES (X)**
- EXTEND NEAREST EXISTING EMERGENCY EXIT SIGN BRANCH CIRCUIT FOR NEW EXIT SIGN. EXTEND EXISTING CONDUIT AND WIRES AS REQUIRED. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
 - EXTEND NEAREST EXISTING EMERGENCY BRANCH CIRCUIT FOR NEW EM FIXTURE. EXTEND EXISTING CONDUIT AND WIRES AS REQUIRED. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR FURTHER INFORMATION.
 - SECTION OF FIXTURE SHALL BE ON NEAREST EXISTING EMERGENCY/NIGHT LIGHT BRANCH CIRCUIT FOR NEW FIXTURE WIRED AHEAD OF LOCAL CONTROLS. EXTEND EXISTING CONDUIT AND WIRES AS REQUIRED. COORDINATE FIXTURE EMERGENCY CIRCUIT REQUIREMENTS WITH MANUFACTURER AS REQUIRED. NIGHT LIGHTS SHALL REMAIN ON 100% OF THE TIME.
 - CONNECT EXISTING NORMAL POWER CORRIDOR LIGHTING CIRCUIT TO NEW LIGHT FIXTURE. EXTEND EXISTING CONDUIT AND WIRES AS REQUIRED. CONNECT TO LOCAL CORRIDOR LIGHTING CONTROL ZONE.
 - PROVIDE CLEAR LOCKABLE COVER FOR WALL MOUNTED MANUAL LIGHT FIXTURE CONTROLS.

9/19/2024, 2:08:49 PM Autodesk Docs/12/23/24 - Oakton College - 1st & 2nd Floor Adj Rem/2024-OAKTON RENOV-MEFP-2023-CENTRAL-14

EXISTING ELECTRICAL PANEL LOAD SCHEDULE												
PANEL # 2L-22-2		VOLTAGE / PHASE: 120/208V 3 PHASE 4 WIRE										
LOCATION: CLOSET 2250		BUSSING: 150A MAIN BREAKER: 150A MAIN LUG ONLY: - A.I.C. EXISTING MOUNTING SURFACE										
PROJECT: OAKTON ADJ. RENOVATIONS - PHASE 1 PROJ. # 2424												
CCT	POLE	TRIP	AREA SERVED	LOAD	A LOAD	B LOAD	C	AREA SERVED	POLE	TRIP	CCT	
1	1	20	DEMO TABLE/WORK RECS	1443				1443	1	20	2	
3	1	20	EXISTING LOAD	500				500	1	20	4	
5	1	20	COLLAB FORTHE THRU/MONITOR	1900				1900	1	20	6	
7	1	20	EXISTING LOAD	500				500	1	20	8	
9	1	20	WORKSTATIONS 2254	1000				1000	1	20	10	
11	1	20	MANAGER 2265	500				500	1	20	12	
13	1	20	EXISTING LOAD	1000				1000	1	20	14	
15	1	20	EXISTING LOAD	1000				1000	1	20	16	
17	1	20	EXISTING LOAD	1000				1000	1	20	18	
19	1	20	EXISTING LOAD	1000				1000	1	20	20	
21	1	20	EXISTING LOAD	1000				1000	1	20	22	
23	1	20	EXISTING LOAD	1000				1000	1	20	24	
25	1	20	EXISTING LOAD	1000				1000	1	20	26	
27	2	20	EXISTING LOAD	1000				1000	2	20	28	
29	1	20	EXISTING LOAD	1000				1000	1	20	30	
31	1	20	MANAGER 2270 (NOTE 1)	720				720	1	20	32	
33	1	20	MANAGER 2289 (NOTE 1)	1440				1440	1	20	34	
35	1	20	SPACE	1500				1500	1	20	36	
37	1	20	WORKSTATIONS (NOTE 1)	1500				1500	1	20	38	
39	1	20	SPACE	1000				1000	1	20	40	
41	1	20	DIRECTOR MONITOR (NOTE 1)	500				500	1	20	42	
				13160					200% NEUTRAL:			
				12520					200% NEUTRAL:			
				12660					ISOLATED GROUND BUS:			
				38340VA					FEED THRU LUGS:			
				107A								

Oakton Adj. Renovation Phase 1 - Load Calculation (2L-22-2)			
LOAD TYPE	CONNECTED LOAD (VA)	DEMAND	VA
EXISTING LOADS	21000.0	125%	26250
RECEPTACLES (1ST 10000VA)	10000	100%	10000
RECEPTACLES (REMAINDER)	4220	50%	2110
PRINTER	1000	100%	1000
TOTAL DEMAND LOAD	39360	VOLTAGE/PHASE	AMP
		208V/3PH	109.33
		EX. PANEL RATING	150



1 LEVEL 01 NEW WORK RISER DIAGRAM - PHASE 1
NOT TO SCALE

- RISER NOTES: (X)
- PROVIDE ENGRAVED LABEL "OST-2" ON CIRCUIT BREAKER #13 IN MDP-1 LOCATED IN 0703 ON LOWER LEVEL.

BRANCH PANELBOARD SUPPRESSOR: [SPD #1]

120/208 VOLT RATED, 3 PHASE, 4 WIRE SURFACE MOUNTED.

SEE SPECIFICATIONS FOR MODEL NUMBER/ADDITIONAL INFORMATION.

ALL UNITS TO HAVE EM/RFI FILTERING, VISUAL FAULT DISPLAYS AND FORM-C CONTACTS.

NO OTHER MANUFACTURERS WILL BE ACCEPTED. MANUFACTURERS REP. SHALL BE ON SITE FOR START UP PROCEDURES.

DEVICE MUST BE UL 1449 5TH EDITION LISTED UNDER THE MOST CURRENT REVISION. THE SPECIFIED UNIT SHALL BE FUSED WITH FUSES CAPABLE OF ALLOWING THE SUPPRESSOR'S MAXIMUM RATED TRANSIENT CURRENT TO PASS THROUGH SUPPRESSOR WITHOUT FUSE OPERATION. FUSES, WHETHER INTERNAL OR EXTERNAL, MUST BE UL LISTED. IF ANY EXTERNAL LIMITING DEVICES ARE REQUIRED, THOSE DEVICES SHALL BE DETAILED AND INCLUDED IN THE SUBMITTAL/PROPOSAL. IF AN EXTERNAL DEVICE IS TO BE INCLUDED, ITS IMPACT ON SURGE CURRENT CAPABILITY AND CLAMPING LEVEL SHALL BE PROVIDED. ALL OVERCURRENT PROTECTION CIRCUITS SHALL BE MONITORED AND PROVIDE INDICATION OF SUPPRESSION OPERABILITY OR FAILURE.

-ALL UNITS MUST COME WITH A 5 YEAR WARRANTY ON ALL PARTS AND LABOR
-ALL UNITS REQUIRING SERVICE SHALL BE RECTIFIED WITHIN 48 HOURS OF NOTIFICATION.

EXISTING ELECTRICAL PANEL LOAD SCHEDULE												
PANEL # OST		VOLTAGE / PHASE: 120/208V 3 PHASE 4 WIRE										
LOCATION: CLOSET 1838		BUSSING: 80A MAIN BREAKER: 80A MAIN LUG ONLY: - A.I.C. EXISTING MOUNTING SURFACE										
PROJECT: OAKTON ADJ. RENOVATION - PHASE 1 PROJ. # 2424												
CCT	POLE	TRIP	AREA SERVED	LOAD	A LOAD	B LOAD	C	AREA SERVED	POLE	TRIP	CCT	
1	1	20	RECEPTION TESTING	1500				1500	1	20	2	
3	1	20	ACCOMMODATION	540				540	1	20	4	
5	1	20	ACCOMMODATION	1260				1260	1	20	6	
7	1	20	ACCOMMODATION	1180				1180	1	20	8	
9	1	20	TESTING MANAGER OFFICE	360				360	1	20	10	
11	1	20	SPARE	1220				1220	1	20	12	
13	1	20	PRINTER	1000				1000	1	20	14	
15	1	20	TESTING ROOM CONVENIENCE RECS	1080				1080	1	20	16	
17	1	20	SPARE	1000				1000	1	20	18	
19	1	20	SPARE	1500				1500	1	20	20	
21	1	20	SPARE	1000				1000	1	20	22	
23	1	20	SPARE	1000				1000	1	20	24	
25	1	20	SPARE	1000				1000	1	20	26	
27	1	20	SPARE	1000				1000	1	20	28	
29	1	20	CCTV POWERQUAD (ER)	1000				1000	1	20	30	
31	1	20	RECEPT RM F72 (ER)	1100				1100	1	20	32	
33	1	20	RECEPT RM F72 (ER)	1000				1000	1	20	34	
35	1	20	EXISTING LOAD	1000				1000	1	20	36	
37	1	20	EXISTING LOAD	1000				1000	1	20	38	
39	1	20	EXISTING LOAD	1000				1000	1	20	40	
41	1	20	SHUNT TRIP	100				100	1	20	42	
				9680					200% NEUTRAL:			
				10060					200% NEUTRAL:			
				7100					ISOLATED GROUND BUS:			
				26740VA					FEED THRU LUGS:			
				74A								

PANEL SCHEDULE NOTES:

- FURNISH AND INSTALL NEW CIRCUIT BREAKER AS SHOWN. NEW CIRCUIT BREAKER SHALL MATCH EXISTING MAKE, MODEL, AND AIC RATING.
- RELOCATE EXISTING BRANCH CIRCUITS TO NEW PANEL AS SHOWN. EXTEND EXISTING CONDUIT AND WIRES AS REQUIRED.
- VERIFY MOCP REQUIREMENTS AND NUMBER OF POLES OF CIRCUIT BREAKER WITH FURNITURE CONTRACTOR AND MANUFACTURER PRIOR TO ORDERING CIRCUIT BREAKERS.

GENERAL ELECTRICAL NOTES:

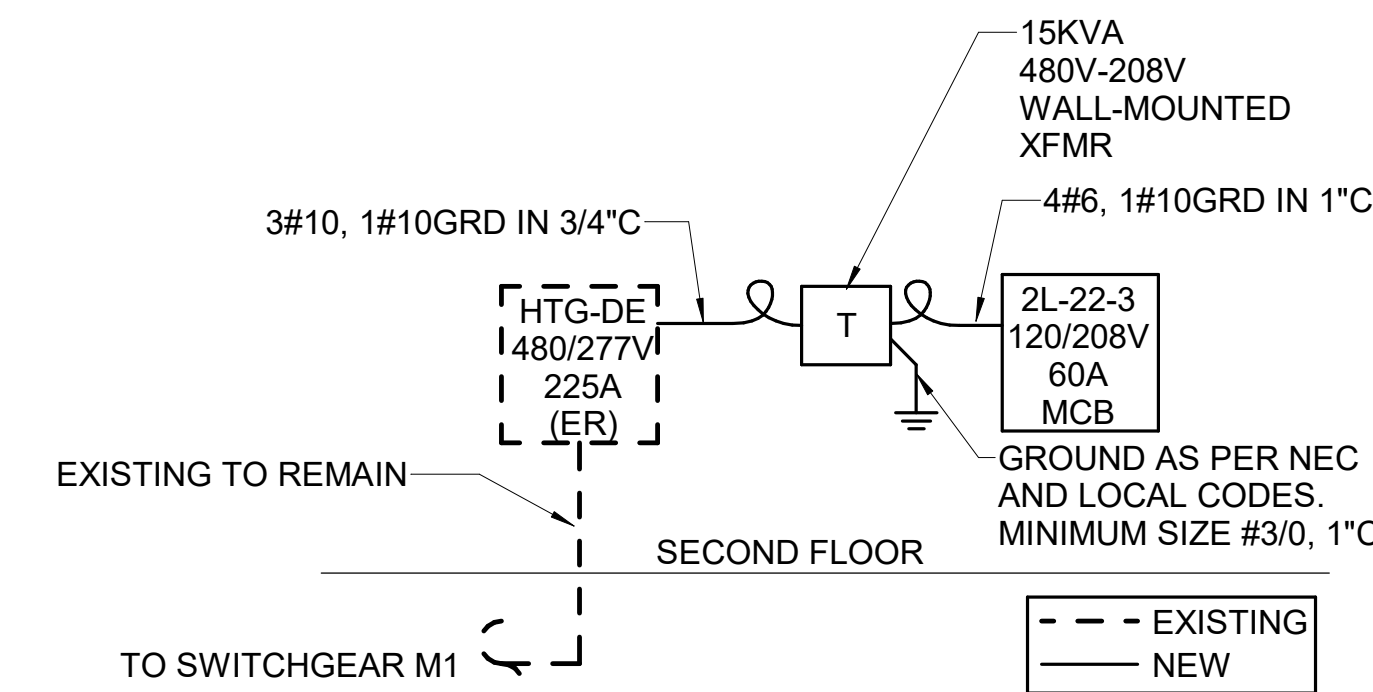
- UPDATE ALL EXISTING CARD DIRECTORIES THAT ARE AFFECTED BY CONSTRUCTION AND DEMOLITION. ALL CARD DIRECTORIES ARE TO BE TYPED. HANDWRITING IS NOT ALLOWED.

Oakton Adj. Renovation Phase 1 - Load Calculation (2L-22-3)			
LOAD TYPE	CONNECTED LOAD (VA)	DEMAND	VA
RECEPTACLES (1ST 10000VA)	6760	100%	6760
REFRIGERATOR	1000	100%	1000
MICROWAVE	1500	100%	1000
TOTAL DEMAND LOAD	8760	VOLTAGE/PHASE	AMP
		208V/3PH	24.33
		MAIN CIRCUIT BREAKER	60

EXISTING ELECTRICAL PANEL LOAD SCHEDULE												
PANEL # OST-2		VOLTAGE / PHASE: 120/208V 3 PHASE 4 WIRE										
LOCATION: CLOSET 1838		BUSSING: 400A MAIN BREAKER: - MAIN LUG ONLY: YES A.I.C. EXISTING MOUNTING SURFACE										
PROJECT: OAKTON ADJ. RENOVATIONS - PHASE 1 PROJ. # 2424												
CCT	POLE	TRIP	AREA SERVED	LOAD	A LOAD	B LOAD	C	AREA SERVED	POLE	TRIP	CCT	
1	1	20	EXISTING LOAD	1000				1000	1	20	2	
3	1	20	EXISTING LOAD	1000				1000	1	20	4	
5	1	20	EXISTING LOAD	1000				1000	1	20	6	
7	1	20	EXISTING LOAD	1000				1000	1	20	8	
9	1	20	EXISTING LOAD	1000				1000	1	20	10	
11	1	20	EXISTING LOAD	1000				1000	1	20	12	
13	1	20	EXISTING LOAD	1000				1000	1	20	14	
15	1	20	EXISTING LOAD	1000				1000	1	20	16	
17	1	20	EXISTING LOAD	1000				1000	1	20	18	
19	1	20	EXISTING LOAD	1000				1000	1	20	20	
21	1	20	EXISTING LOAD	1000				1000	1	20	22	
23	1	20	EXISTING LOAD	1000				1000	1	20	24	
25	1	20	EXISTING LOAD	1000				1000	1	20	26	
27	1	20	FLOORBOX (ER)	500				500	1	20	28	
29	1	20	EXISTING LOAD	1000				1000	1	20	30	
31	1	20	EXISTING LOAD	1000				1000	1	20	32	
33	1	20	EXISTING LOAD	1000				1000	1	20	34	
35	1	20	EXISTING LOAD	1000				1000	1	20	36	
37	1	20	EXISTING LOAD	1000				1000	1	20	38	
39	1	20	EXISTING LOAD	1000				1000	1	20	40	
41	3	200	EXISTING LOAD	17180				17180	3	200	42	
				30880					200% NEUTRAL:			
				29332					200% NEUTRAL:			
				30192					ISOLATED GROUND BUS:			
				9040VA					FEED THRU LUGS:			
				251A								

Oakton Adj. Renovation Phase 1 - Load Calculation (OST2)			
LOAD TYPE	CONNECTED LOAD (VA)	DEMAND	VA
EXISTING LOADS	41000.0	125%	51250
RECEPTACLES (1ST 10000VA)	10000	100%	10000
RECEPTACLES (REMAINDER)	23660	50%	11830
ADA DOOR	500	100%	500
MICROWAVE	1500	100%	1500
U/C REFRIGERATOR	1000	100%	1000
TOTAL DEMAND LOAD	76080	VOLTAGE/PHASE	AMP
		208V/3PH	211.33
		EX. PANEL RATING	400

ELECTRICAL PANEL LOAD SCHEDULE												
PANEL # 2L-22-3		VOLTAGE / PHASE: 120/208V 3 PHASE 4 WIRE										
LOCATION: CLOSET 2250		BUSSING: 60A MAIN BREAKER: 60A MAIN LUG ONLY: - A.I.C. 26,800 MOUNTING SURFACE										
PROJECT: OAKTON ADJ. RENOVATION - PHASE 1 PROJ. # 2424												
CCT	POLE	TRIP	AREA SERVED	LOAD	A LOAD	B LOAD	C	AREA SERVED	POLE	TRIP	CCT	
1	1	20	WORKSTATIONS	1500				1500	1	20	2	
3	1	20	WORKSTATIONS	1000				1000	1	20	4	
5	1	20	COLLAB 2262	4220				4220	1	20	6	
7	1	20	WORKSTATION MONITORS	816				816	1	20	8	
9	1	20	TRAINING CENTER RECS	1224				1224	1	20	10	
11	1	20	SPARE	720				720	1	20	12	
13	1	20	SPARE	1000				1000	1	20	14	
15	1	20	SPARE	1000				1000	1	20	16	
17	1	20	SPARE	1000				1000	1	20	18	
				4540					200% NEUTRAL: NO			
				2720					200% NEUTRAL: NO			
				2000					ISOLATED GROUND BUS: NO			
				9260VA					FEED THRU LUGS: NO			
				26A								



2 LEVEL 02 NEW WORK RISER DIAGRAM - PHASE 1
NOT TO SCALE

UL 1449 5TH EDITION STIPULATION:

THE SURGE PROTECTION DEVICE SPECIFIED HAS BEEN TESTED TO AND PASSED ALL UL 1449 5TH EDITION CRITERIA (AND SPECIFICALLY THE FULL PHASE VOLTAGE-HIGH CURRENT ABNORMAL OVERVOLTAGE TEST) WITHOUT USE OF AN EXTERNAL OVERCURRENT DEVICE.

IF AN EXTERNAL OVERCURRENT DEVICE IS RECOMMENDED FOR USE WITH THE SURGE PROTECTION DEVICE, THE SUBMITTAL/PROPOSAL WILL INDICATE HOW THE CLAMPING VOLTAGE AND SURGE CURRENT CAPACITY OF THE SURGE PROTECTION DEVICE IS AFFECTED.

THE TRANSIENT CAPACITY OF ALL INTERNAL FUSING AHEAD OF THE PRIMARY SURGE SUPPRESSION ELEMENT MEETS OR EXCEEDS THE SPECIFIED SURGE CURRENT CAPABILITY OF THE SURGE PROTECTION DEVICE.

APPLY YELLOW FLOOR PAINT OR TAPE AND HATCH OUT AREA AROUND NEW AND EXISTING TRANSFORMERS, DISTRIBUTION PANELS, AND POWER PANELS TO IDENTIFY NEC REQUIRED CLEARANCE AREA AROUND EQUIPMENT. MINIMUM 3'-0" CLEAR IN FRONT OF 208V EQUIPMENT AND 3'-6" IN FRONT OF 480V EQUIPMENT. FOR PANELS IN FINISHED AREAS WITH FLOOR TILES INCLUDE HEAVY BRADY FLOOR MARKING TAPE (TOUGHSTRIP® MAX). COORDINATE OUTLINE WITH ENGINEER AND OWNER. ALL EXISTING FLOOR SERVICE AREA PAINTING/HATCHING SHALL BE REMOVED/MODIFIED TO ACCOMMODATE NEW EQUIPMENT. COORDINATE PAINTING

LIGHT FIXTURE SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	LAMPS / LUMINARIES				DRIVER	MOUNTING	DESCRIPTION	REMARKS
			QTY	TYPE	WATTS	VOLTS				
F1	LITHONIA LIGHTING	ZBLT4-4BL-ADP-GZ1-LP840	PER DWG.	LED	39.3	120/277	0-10 DIMMING	RECESSED	2X4 LED TROFFER	VERIFY VOLTAGE OF EXISTING LIGHTING BRANCH CIRCUIT PRIOR TO ORDERING. VERIFY EXACT GRID TYPE PRIOR TO ORDERING ANY LAV-IN FIXTURE.
F2A	AXIS LIGHTING	BBRLED-500-80CRI-40K-FL-S(L)-W-UNV-DP-1 (OR 2 AS REQUIRED)+E(2)AS (REQUIRED)-ST	PER DWG.	LED	5W/FT	120/277	0-10 DIMMING	RECESSED	DIRECT LINEAR FIXTURE	RUN FIXTURE IN (2) 6'-0" AND (1) 4'-0" SECTIONS. PROVIDE SEPARATE EM CIRCUIT AND NEUTRAL AS REQUIRED PER EMINIGHT LIGHT SECTIONS OF FIXTURE AS SHOWN ON THE DRAWINGS. COORDINATE QUANTITY OF DRIVERS REQUIRED WITH MANUFACTURER. VERIFY VOLTAGE OF EXISTING LIGHTING BRANCH CIRCUIT PRIOR TO ORDERING. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL CEILING REQUIREMENTS PRIOR TO ORDERING. REFER TO FLOOR PLAN FOR LENGTHS.
F2B	AXIS LIGHTING	BBRLED-500-80CRI-40K-FL-S(L)-W-UNV-DP-1 (OR 2 AS REQUIRED)+E(1)(OR 2 AS REQUIRED)-ST	PER DWG.	LED	5W/FT	120/277	0-10 DIMMING	RECESSED	DIRECT LINEAR FIXTURE	RUN FIXTURE IN (3) 6'-0" AND (2) 4'-0" SECTIONS. PROVIDE SEPARATE EM CIRCUIT AND NEUTRAL AS REQUIRED PER EMINIGHT LIGHT SECTIONS OF FIXTURE AS SHOWN ON THE DRAWING. VERIFY VOLTAGE OF EXISTING LIGHTING BRANCH CIRCUIT PRIOR TO ORDERING. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL CEILING REQUIREMENTS PRIOR TO ORDERING. REFER TO FLOOR PLAN FOR LENGTHS.
F2C	AXIS LIGHTING	BBRLED-600-80CRI-40K-FL-4-W-UNV-DP-1+E(1)(AS REQUIRED)-DF	PER DWG.	LED	6W/FT	120/277	0-10 DIMMING	RECESSED	DIRECT LINEAR FIXTURE	VERIFY VOLTAGE OF EXISTING LIGHTING BRANCH CIRCUIT PRIOR TO ORDERING. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL CEILING REQUIREMENTS PRIOR TO ORDERING. REFER TO FLOOR PLAN FOR LENGTHS.
F2D	AXIS LIGHTING	BBRLED-600-80CRI-40K-FL-6-W-UNV-DP-1+E(1)(AS REQUIRED)-DF	PER DWG.	LED	6W/FT	120/277	0-10 DIMMING	RECESSED	DIRECT LINEAR FIXTURE	VERIFY VOLTAGE OF EXISTING LIGHTING BRANCH CIRCUIT PRIOR TO ORDERING. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL CEILING REQUIREMENTS PRIOR TO ORDERING. REFER TO FLOOR PLAN FOR LENGTHS.
F2E	AXIS LIGHTING	BBRLED-600-80CRI-40K-FL-10-W-UNV-DP-1+E(1)(AS REQUIRED)-ST	PER DWG.	LED	6W/FT	120/277	0-10 DIMMING	RECESSED	DIRECT LINEAR FIXTURE	RUN FIXTURE IN (1) 6'-0" AND (1) 4'-0" SECTIONS. VERIFY VOLTAGE OF EXISTING LIGHTING BRANCH CIRCUIT PRIOR TO ORDERING. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL CEILING REQUIREMENTS PRIOR TO ORDERING. REFER TO FLOOR PLAN FOR LENGTHS.
F2F	AXIS LIGHTING	BBRLED-600-80CRI-40K-FL-4-W-UNV-DP-1+E(1)(AS REQUIRED)-ST	PER DWG.	LED	6W/FT	120/277	0-10 DIMMING	RECESSED	DIRECT LINEAR FIXTURE	VERIFY VOLTAGE OF EXISTING LIGHTING BRANCH CIRCUIT PRIOR TO ORDERING. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL CEILING REQUIREMENTS PRIOR TO ORDERING. REFER TO FLOOR PLAN FOR LENGTHS.
F3	GOTHAM	EV06-40/20-AR-LSS-MD-MVOLT-GZ1	PER DWG.	LED	19.7	120/277	0-10 DIMMING	RECESSED	6" DOWNLIGHT	VERIFY VOLTAGE OF EXISTING LIGHTING BRANCH CIRCUIT PRIOR TO ORDERING. VERIFY MOUNTING TYPE REQUIRED WITH ARCHITECT PRIOR TO ORDERING.
F4	LITHONIA LIGHTING	ZBLT2-4BL-ADP-GZ1-LP840	PER DWG.	LED	42.9	120/277	0-10 DIMMING	RECESSED	2X2 LED TROFFER	VERIFY VOLTAGE OF EXISTING LIGHTING BRANCH CIRCUIT PRIOR TO ORDERING. VERIFY EXACT GRID TYPE PRIOR TO ORDERING ANY LAV-IN FIXTURE.
F5	LITHONIA LIGHTING	BLT4-4BL-ADP-GZ1-LP840	PER DWG.	LED	38.8	120/277	0-10 DIMMING	RECESSED	1X4 LED TROFFER	VERIFY VOLTAGE OF EXISTING LIGHTING BRANCH CIRCUIT PRIOR TO ORDERING. VERIFY EXACT GRID TYPE PRIOR TO ORDERING ANY LAV-IN FIXTURE.
X1	LITHONIA LIGHTING	LRP-W-(1 OR 2 AS REQUIRED)-RW-(DIRECTIONAL INDICATORS AS REQUIRED)-120/277	PER DWG.	LED	5	120/277	-	-	WALL OR CEILING EXIT SIGN (ONE/TWO SIDED AS REQUIRED)	FINAL ARROW LOCATION SHALL BE COORDINATED WITH THE DRAWINGS. VERIFY VOLTAGE OF EXISTING EXIT SIGNS BRANCH CIRCUIT PRIOR TO ORDERING.

NOTES:

- OTHER MANUFACTURERS ARE ALLOWED UPON ARCHITECT/OWNER'S PRIOR APPROVAL.
- LIGHT FIXTURES SHALL BE INDEPENDENTLY SUPPORTED TO THE BUILDING STRUCTURE SEPARATE FROM THE CEILING SYSTEM. REFER TO SPECIFICATIONS SECTION 265100 FOR ADDITIONAL INFORMATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND LENGTH OF FIXTURES.
- FURNISH AND INSTALL ALL LIGHT FIXTURE MOUNTING HARDWARE REQUIRED FOR A COMPLETE INSALLATION OF LIGHT FIXTURES (IE, PENDANTS, FLANGE KITS, CANOPIES, TONG HANGERS, SAFETY CHAINS, UNI-STRUT, ETC.)
- CATALOG NUMBERS MAY NOT REFLECT ALL OF THE REQUIREMENTS INCLUDED IN THE DRAWINGS AND SPECIFICATIONS. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER AND EXISTING SITE CONDITIONS. COORDINATE CEILING TYPES AND MOUNTING TYPES REQUIRED WITH ARCHITECTURAL RCPS PRIOR TO ORDERING.
- COORDINATE FIXTURE COLOR AND LAMP COLOR TEMPERATURE WITH ARCHITECT AND OWNER PRIOR TO ORDERING.
- VERIFY ABOVE CEILING CLEARANCE FOR ALL RECESSED FIXTURES PRIOR TO ORDERING.

LIGHT FIXTURE INSTALLATION:

- SUPPORT FOR LIGHTING FIXTURES IN OR ON GRID-TYPE SUSPENDED CEILING:
- INSTALL A MINIMUM OF FOUR CEILING SUPPORT SYSTEM RODS OR WIRES FOR EACH FIXTURE. LOCATE NOT MORE THAN 6 INCHES FROM LIGHTING FIXTURE CORNERS. RODS/WIRE MUST BE INSTALLED FROM STRUCTURE AND SIZED IN ORDER TO SUPPORT EACH FIXTURE INDEPENDENTLY OF GRID. WIRE SHALL HAVE BREAKING STRENGTH OF THE WEIGHT OF THE FIXTURE AT A SAFETY FACTOR OF 3 TIMES UNITS WEIGHT. PROVIDE NO MORE THAN 2" OF SLACK IN EACH FIXTURE SUPPORT CABLE AFTER FIXTURES HAVE BEEN INSTALLED WITHIN GRID.
- SUPPORT CLIPS: FASTEN TO LIGHTING FIXTURES AND TO CEILING GRID MEMBERS AT OR NEAR EACH FIXTURE CORNER WITH CLIPS THAT ARE UL LISTED FOR THE APPLICATION. PER NEC 410-16-C.
- FIXTURES OF SIZES LESS THAN CEILING GRID: INSTALL AS INDICATED ON REFLECTED CEILING PLANS OR CENTER IN ACOUSTICAL PANEL, AND SUPPORT FIXTURES INDEPENDENTLY WITH AT LEAST TWO 3/4-INCH METAL CHANNELS SPANNING AND SECURED TO CEILING TEES. INSTALL AT LEAST ONE INDEPENDENT SUPPORT ROD OR WIRE FROM STRUCTURE TO A TAB ON EACH END OF LIGHTING FIXTURE. WIRE OR ROD SHALL HAVE BREAKING STRENGTH OF THE WEIGHT OF FIXTURE AT A SAFETY FACTOR OF 3.
- ALL JUNCTION BOXES USED FOR SUPPORTING LIGHT FIXTURES WILL BE HEAVY DUTY UL LISTED FOR THE APPLICATION. DO NOT SUPPORT FROM CEILING GRID. SUPPORT FROM STRUCTURE AND USE GRID TO STABILIZE UNIT.

FLOOR BOX AND POKE THRU SCHEDULE

TAG	TYPE	DESCRIPTION	MANUFACTURER	MODEL #
FB-1	FLOOR BOX	FOUR GANG: POWER, DATA, HDBASET ONE CONTROLLED DUPLEX RECEPTACLE.	LEGRAND	EFB45S-OG WITH MOUNTING BRACKET EFB8-MB
FB-2	FLOOR BOX	DOUBLE GANG: POWER ONLY 3/4" POWER FLEX WHIP.	LEGRAND	EFBFF
FB-3	FLOOR BOX	FOUR GANG: DATA ONLY. REFER TO LOW VOLTAGE DRAWINGS AND DETAILS.	LEGRAND	EF45S-OG
PT-1	POKE-THRU	8"POKE THRU: POWER, DATA, HDBASET, CONTROLLED QUADRUPLX RECEPTACLE. REFER TO LOW VOLTAGE DRAWINGS AND DETAILS.	LEGRAND	8AT
PT-2	POKE-THRU	6"POKE THRU: POWER AND DATA, CONTROLLED QUADRUPLX RECEPTACLE AND (4) DATA JACKS.	LEGRAND	6AT
PT-3	POKE-THRU	6"POKE THRU: POWER ONLY 3/4" POWER FLEX WHIP.	LEGRAND	6ATCFF
PT-4	POKE-THRU	10"POKE THRU: POWER, DATA, HDBASET AND AV, CONTROLLED QUADRUPLX RECEPTACLE.	LEGRAND	10AT
PT-5	POKE-THRU	8"POKE THRU: POWER AND DATA, CONTROLLED QUADRUPLX RECEPTACLE AND (8) DATA JACKS.	LEGRAND	8AT
PT-6	POKE-THRU	8"POKE THRU: POWER AND DATA, CONTROLLED QUADRUPLX RECEPTACLE AND (6) DATA JACKS.	LEGRAND	6AT
PT-7	POKE-THRU	6"POKE THRU: DATA ONLY. (16) DATA JACKS.	LEGRAND	6AT

NOTES:

- COVER PLATE FINISH AND COLORS TO BE COORDINATED WITH ARCHITECT AND OWNER PRIOR TO ORDERING.
- PROVIDE MOUNTING DEVICE PLATES, COVERS, AND ACCESSORIES AS REQUIRED BY THE OWNER AND TECHNOLOGY CONTRACTOR. COORDINATE ALL POWER, DATA, HDMI, AND AV REQUIREMENTS OF ALL DEVICES WITH OWNER PRIOR TO PURCHASE.
- COORDINATE INSTALLATION, CORING, CHISLING AND SLAB CUTTING WITH STRUCTURAL ENGINEER /ARCHITECT.
- FINAL LOCATION SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ORDERING.
- EC SHALL RADAR SCAN ALL FLOORS PRIOR TO CUTTING OR CORING. WHEN CORING, EC SHALL PROVIDE PROTECTION TO ALL FURNITURE, FLOORING, AND DEVICES IN SPACE BELOW FROM DAMAGE.
- REFER TO LOW VOLTAGE DRAWINGS AND DETAILS FOR DATA, AV, AND HDBASET REQUIREMENTS.

EXISTING ELECTRICAL PANEL LOAD SCHEDULE

PANEL # HTG-DE		VOLTAGE / PHASE: 277/480V 3 PHASE 4 WIRE										
LOCATION: CLOSET 2250		BUSSING: 225A										
PROJECT: OAKTON ADJ. RENOVATION		MAIN BREAKER: -										
PROJ. # 2424		MAIN LUG ONLY: YES										
		A.I.C. EXISTING MOUNTING SURFACE										
CCT	POLE	TRIP	AREA SERVED	LOAD	A LOAD	B LOAD	C	AREA SERVED	POLE	TRIP	CCT	
1	1	20	VAV 97 (ER)	1000								
3	1	20	VAV 98 (ER)	1000				VAV 231, 238 (ER)	1	20	2	
5	1	30	VAV 99A (ER)	1000				VAV 230, 232 (ER)	1	20	4	
7	1	20	VAV 98 (ER)	1000				VAV 236, 237 (ER)	1	20	6	
9	1	30	VAV 60 (ER)	2000				VAV 238, 240 (ER)	1	20	8	
11	1	20	VAV 60A (ER)	1000				VAV 239 (ER)	1	20	10	
13	1	20	VAV 61 (ER)	1000				VAV 241 (ER)	1	20	12	
15	1	20	VAV 62 (ER)	1000				VAV 234 (ER)	1	20	14	
17	1	20	VAV 63 (ER)	1000				VAV 235, 233 (ER)	1	20	16	
19	1	20	VAV 64 (ER)	1000				VAV 244, 245 (ER)	1	20	18	
21	1	30	2100 VAV	2000				VAV 264, 262 (ER)	1	20	20	
23	1	20	SPARE	1000				VAV 260 (ER)	1	20	22	
25	1	30	VAV 217 (ER)	1000				VAV 261, 263 (ER)	1	20	24	
27	1	30	VAV 218, 219, 219A (ER)	2000							26	
29	1	20	VAV 223 (ER)	1000							28	
31	1	20	VAV 224 (ER)	1000				EXISTING LOAD	3	30	30	
33	1	20	VAV 225 (ER)	1000					SPARE	1	20	32
35	1	20	VAV 222, 221, 220 (ER)	1000					SPARE	1	20	34
37	1	20	VAV 226 (ER)	1000					SPARE	1	20	36
39	1	20	VAV 227, 28 (ER)	4540							38	
41	1	20	SPARE	1000				TRANSFORMER FOR 2L-22-3 (NOTE 1)	3	25	40	
				2720							42	
				16540				200% NEUTRAL:				
TOTAL (VA) "A" PHASE:				17720				ISOLATED GROUND BUS:				
TOTAL (VA) "B" PHASE:												
TOTAL (VA) "C" PHASE:												
TOTAL (VA) THIS PANEL:				47260VA				FEED THRU LUGS:				
TOTAL AMPS THIS PANEL:				87A								

EXISTING ELECTRICAL PANEL LOAD SCHEDULE

PANEL # HTG-AB		VOLTAGE / PHASE: 277/480V 3 PHASE 4 WIRE										
LOCATION: CLOSET 1701		BUSSING: 200A										
PROJECT: OAKTON ADJ. RENOVATION		MAIN BREAKER: -										
PROJ. # 2424		MAIN LUG ONLY: YES										
		A.I.C. EXISTING MOUNTING SURFACE										
CCT	POLE	TRIP	AREA SERVED	LOAD	A LOAD	B LOAD	C	AREA SERVED	POLE	TRIP	CCT	
1	1	20	VAV 156, 166 (ER)	2000								
3	1	20	VAV 167, 168 (ER)	2000				VAV 209 (ER)	1	20	4	
5	1	20	VAV 169, 170 (ER)	2000				VAV 200, 204, 205 (ER)	1	20	6	
7	1	20	VAV 171, 187 (ER)	2000				VAV 206, 207 (ER)	1	20	8	
9	1	20	VAV 188, 189, 190 (ER)	2000				VAV 208 (ER)	1	20	10	
11			VAV 191 (ER)	2000				VAV 1	1	20	12	
13	3	20		2000				VAV 134 (ER)	1	20	14	
15				2000				VAV 3	1	20	16	
17			VAV 182 (ER)	2000				VAV 4	1	20	18	
19	3	20		1500				VAV 7	1	20	20	
21				2000				VAV 2 (NOTE 1)	1	35	22	
23	1	20	VAV 193 (ER)	3167							24	
25	1	20	VAV 194, 195 (ER)	3167							26	
27	1	30	VAV 196 (ER)	3167				VAV 5 (NOTE 1)	3	20	28	
29			VAV 197 (ER)	2167							30	
31	3	20		2167							32	
33				2167				VAV 6 (NOTE 1)	3	20	34	
35	1	20	VAV 198, 199 (ER)	2000					SPARE	1	20	36
37	1	20	VAV 171, 186A (ER)	2000					SPARE	1	20	38
39	1		SPARE						SPARE	1	20	40
41	1		SPARE						SPARE	1	20	42
TOTAL (VA) "A" PHASE:				24834				200% NEUTRAL:				
TOTAL (VA) "B" PHASE:				28334				ISOLATED GROUND BUS:				
TOTAL (VA) "C" PHASE:				23834								
TOTAL (VA) THIS PANEL:				77002VA				FEED THRU LUGS:				
TOTAL AMPS THIS PANEL:				93A								

EXISTING ELECTRICAL PANEL LOAD SCHEDULE

PANEL # 2H22-1		VOLTAGE / PHASE: 277/480V 3 PHASE 4 WIRE									
LOCATION: CLOSET 2250		BUSSING: 180A									
PROJECT: OAKTON ADJ. RENOVATIONS - PHASE 1		MAIN BREAKER: 180A									
PROJ. # 2424		MAIN LUG ONLY: NO									
		A.I.C. EXISTING MOUNTING SURFACE									
CCT	POLE	TRIP	AREA SERVED	LOAD	A LOAD	B LOAD	C	AREA SERVED	POLE	TRIP	CCT
1	1	20	EXISTING LOAD	2000				EXISTING LOAD	1	20	2
3	1	20	EXISTING LOAD	2000				EXISTING LOAD	1	20	4
5	1	20	EXISTING LOAD	2000				EXISTING LOAD	1	20	6
7	1	20	EXISTING LOAD	2000				EXISTING LOAD	1	20	8
9	1	20	EXISTING LOAD	2000				EXISTING LOAD	1	20	10
11	1	20	EXISTING LOAD	2000				EXISTING LOAD	1	20	12
13	1	25	VAV-8 (NOTE 2)	4000							14
15	1	20	VAV-9	2500							16
17	1	20	VAV-11	2500				VAV-10 (NOTE 1)	3	20	18
19	1	30	VAV-12 (NOTE 1)	6000							20
21	1	20	SPARE	2000							22
23	1	20	SPARE	2000				VAV-12 (NOTE 1)	3	20	24
25	1	20	SPARE	500				ECLYPSE CONTROLLER (NOTE 2)	1	20	26
TOTAL (VA) "A" PHASE:				23000				200% NEUTRAL:			
TOTAL (VA) "B" PHASE:				14500				ISOLATED GROUND BUS:			
TOTAL (VA) "C" PHASE:				15000							
TOTAL (VA) THIS PANEL:				52600VA							

LIGHTING CONTROL SEQUENCE OF OPERATION

ROOMS DESCRIPTION	LIGHTING CONTROL
TYPICAL SMALL ROOM	OCCUPANCY SENSOR CONTROLLED AND DIMMABLE LUMINAIRES AUTO ON, AUTO OFF WHEN UNOCCUPIED MANUAL DIMMING CONTROL VIA DIMMING SWITCH. MARKED RECEPTACLES (AS SHOWN ON PLAN) SHALL BE CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSOR. AUTO ON, AUTO OFF WHEN SPACE IS UNOCCUPIED.
RECEPTION AREAS	OCCUPANCY SENSOR CONTROLLED AND DIMMABLE LUMINAIRES AUTO ON, AUTO OFF WHEN UNOCCUPIED MANUAL DIMMING CONTROL VIA DIMMING SWITCH. MARKED RECEPTACLES (AS SHOWN ON PLAN) SHALL BE CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSOR. AUTO ON, AUTO OFF WHEN SPACE IS UNOCCUPIED.
OPEN OFFICE SPACE/TESTING CENTER	OCCUPANCY SENSOR CONTROLLED DIMMABLE LUMINAIRES AUTO ON, ZONED DIMMING, AUTO OFF WHEN UNOCCUPIED. GENERAL: ALL LUMINAIRES OPERABLE AT FULL OUTPUT TRIMMED TO MAINTAIN A MINIMUM ILLUMINATION LEVEL OF 50FC. ALL NORMAL LUMINAIRES OFF WHEN UNOCCUPIED. ALL EMERGENCY AND NIGHT LIGHTS DIMMED DOWN TO 50%. MARKED RECEPTACLES (AS SHOWN ON PLAN) SHALL BE CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSOR. AUTO ON, AUTO OFF WHEN SPACE IS UNOCCUPIED.
CONFERENCE/COLLAB/TRAINING ROOM	OCCUPANCY SENSOR CONTROLLED DIMMABLE LUMINAIRES AUTO ON, AUTO OFF WHEN UNOCCUPIED. MANUAL DIMMING CONTROL VIA DIMMING SWITCH. ALL LUMINAIRES OFF WHEN UNOCCUPIED. MARKED RECEPTACLES (AS SHOWN ON PLAN) SHALL BE CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSOR. AUTO ON, AUTO OFF WHEN SPACE IS UNOCCUPIED.
CORRIDOR	OCCUPANCY SENSOR CONTROLLED DIMMABLE LUMINAIRES AUTO ON, AUTO OFF WHEN UNOCCUPIED. MANUAL DIMMING CONTROL VIA DIMMING SWITCH. ALL NORMAL LUMINAIRES OFF WHEN UNOCCUPIED. ALL NIGHT LIGHTS DIMMED DOWN TO 50%.

LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS THE ACUITY NLIGHT PRODUCT.
ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SOFTWARE AND HARDWARE TO PROVIDE A COMPLETE AND OPERABLE LIGHTING CONTROL SYSTEM INCLUDING BUT NOT LIMITED TO BRIDGES, SMART SENSORS (OCCUPANCY AND PHOTOSENSORS), WALL STATIONS, POWER SUPPLIES, COMMUNICATIONS MODULES, CABLING, START UP AND COMMISSIONING. CONTRACTOR SHALL INCLUDE TASK TUNING LIGHTING DURING FINAL SETUP.
REFER TO FLOOR PLAN FOR ZONING.
ELECTRICAL CONTRACTOR TO PROVIDE NLIGHT ECLYPSE SYSTEM CONTROLLER FOR TIME CLOCK AND SCHEDULING, BAS CONNECTIVITY AND OTHER FUNCTIONALITY AS REQUIRED.
ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED CONDUIT AND WIRING FOR AND BETWEEN ALL DEVICES PER MANUFACTURER REQUIREMENT.
ELECTRICAL CONTRACTOR TO INSTALL CAT5A PLENUM RATED CABLE BACK TO IDF/MDF CLOSET AND COORDINATE FINAL TERMINATION WITH THE OWNER.
ELECTRICAL CONTRACTOR TO COORDINATE WITH THE OWNER FOR SOFTWARE INSTALLATION AND ACCESS TO WINDOWS BASE SERVER.
ELECTRICAL CONTRACTOR TO PROVIDE TRAINING TO THE OWNER, PROGRAMING AND TROUBLESHOOTING THE LIGHTING CONTROL SYSTEM

GENERAL NOTES

- OCCUPANCY SENSOR, DAYLIGHT SENSOR, AND SWITCH QUANTITIES: PROVIDE QUANTITIES OF NOTED DEVICES AS SHOWN ON FLOOR PLANS, BUT NO LESS THAN ONE OF EACH DEVICE INDICATED ON THE WIRING DIAGRAMS. LIGHTING CONTROLS VENDOR MUST PROVIDE ALL ADDITIONAL APPARATUS AND DEVICES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM AS NOTED ON THIS SHEET, ON THE DRAWING SET, AND AS REQUIRED IN THE PROJECT SPECIFICATION BOOK.
- LIGHTING VENDOR TO CONFIRM QUANTITIES AND TYPE OF RELAY POWER PACKS REQUIRED MEET PROJECT SPECIFICATIONS AND DESIGN DRAWINGS. ALL LAYOUTS SHOW MINIMUM NUMBER OF DEVICES AND MUST BE EXPANDED TO APPLY TO EACH SPACE WITHIN PROJECT.
- POWER LOSS SENSE CIRCUIT: EMERGENCY POWER PACKS MUST HAVE NON-EMERGENCY LIGHTING BRANCH CIRCUIT PROVIDED FOR PROPER POWER-LOSS SENSING. PROVIDE NON-EMERGENCY BRANCH CIRCUIT AHEAD OF LIGHTING CONTROLS FROM NEAREST LOCAL LIGHTING BRANCH. LIGHTS FED FROM NON-EM BRANCH MUST SERVE SAME AREA AS EMERGENCY LIGHTS.
- PROVIDE PLENUM RATED CAT-5 INTERCONNECTION ACROSS MULTIPLE SPACES FOR ALL NLIGHT CONTROL SYSTEMS TO PROVIDE FLEXIBILITY FOR FUTURE NETWORKING.
- COORDINATE FINAL LOCATION FOR BRIDGE, LIGHT SWITCHES, SENSORS, AND ECLYPSE PANEL WITH THE ARCHITECT.

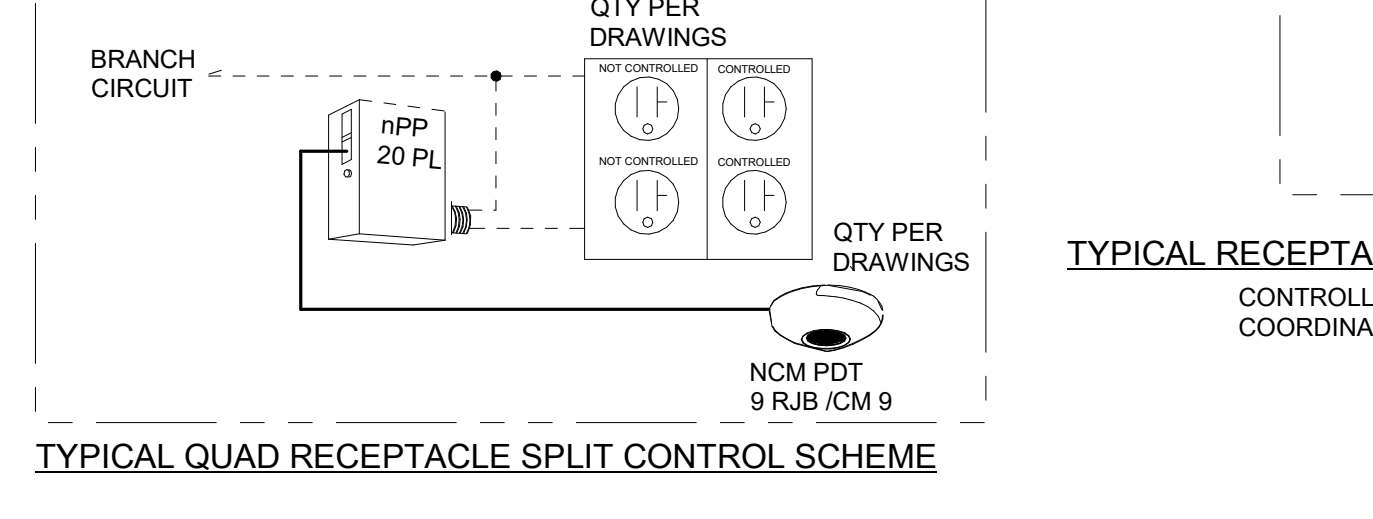
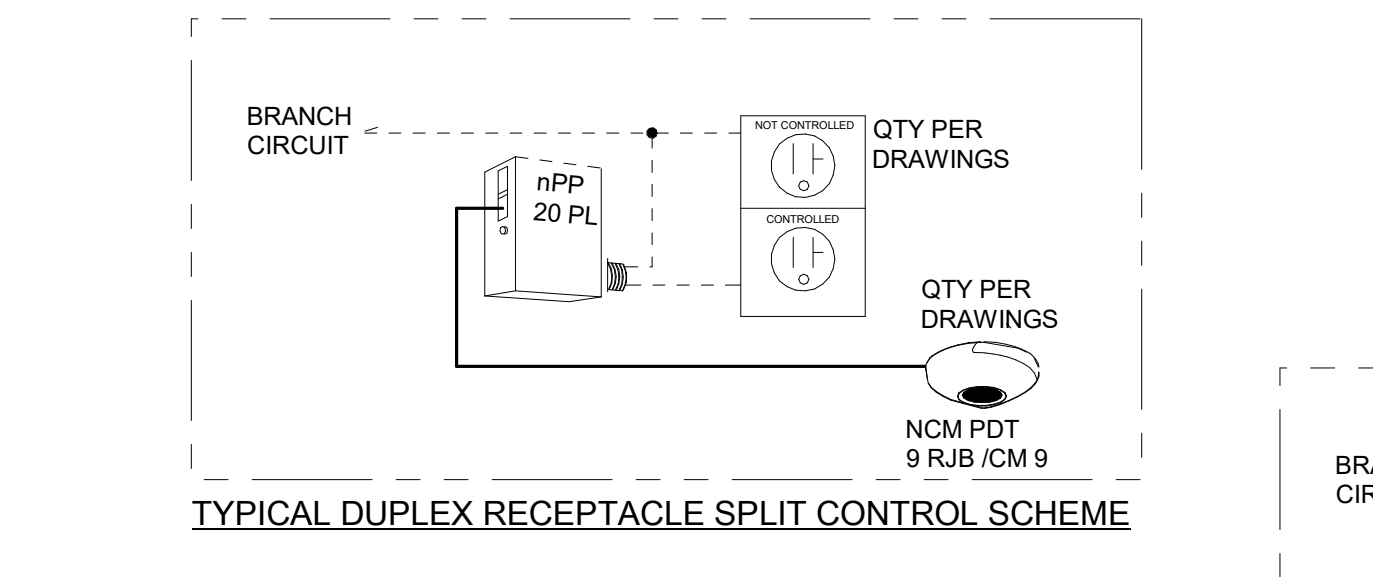
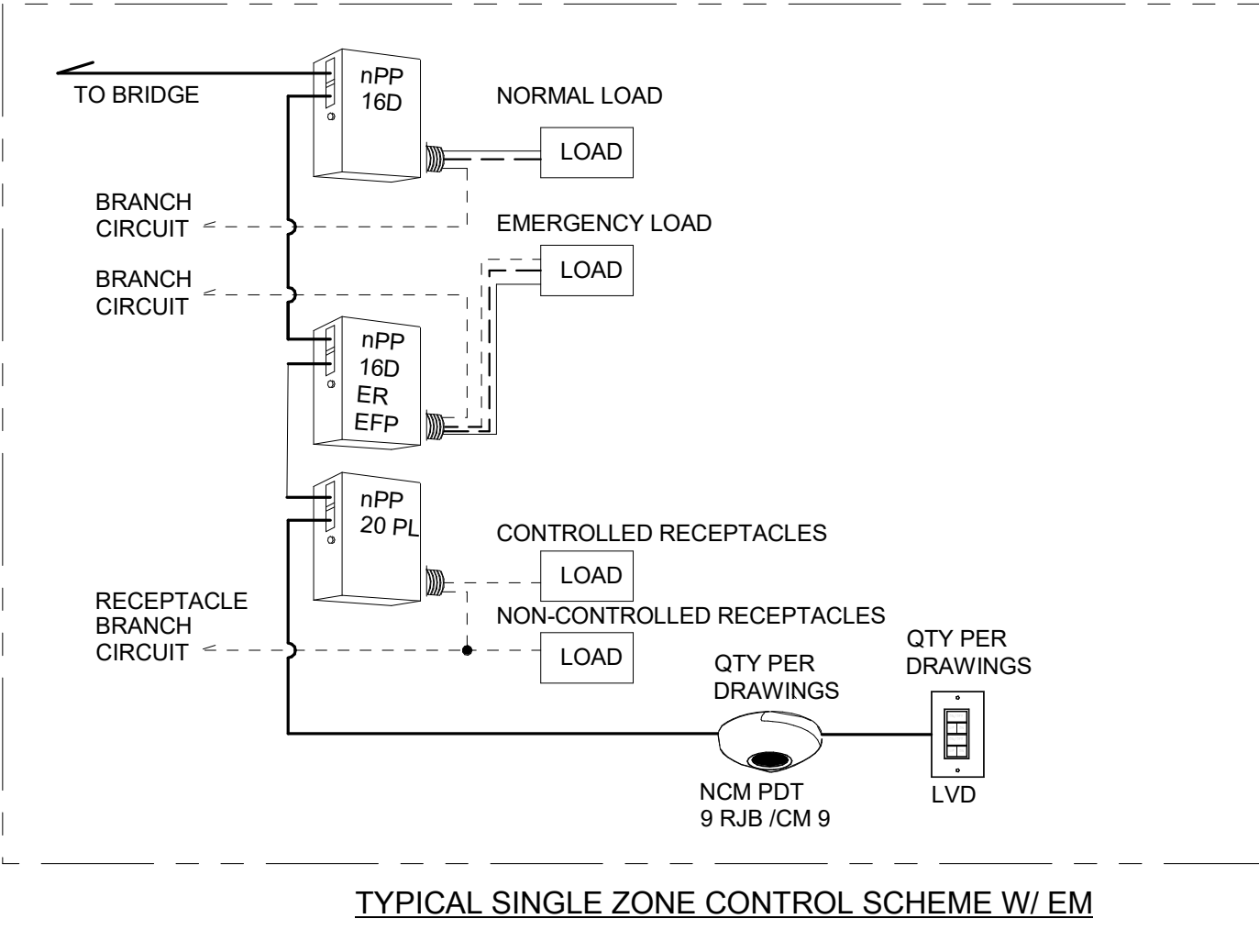
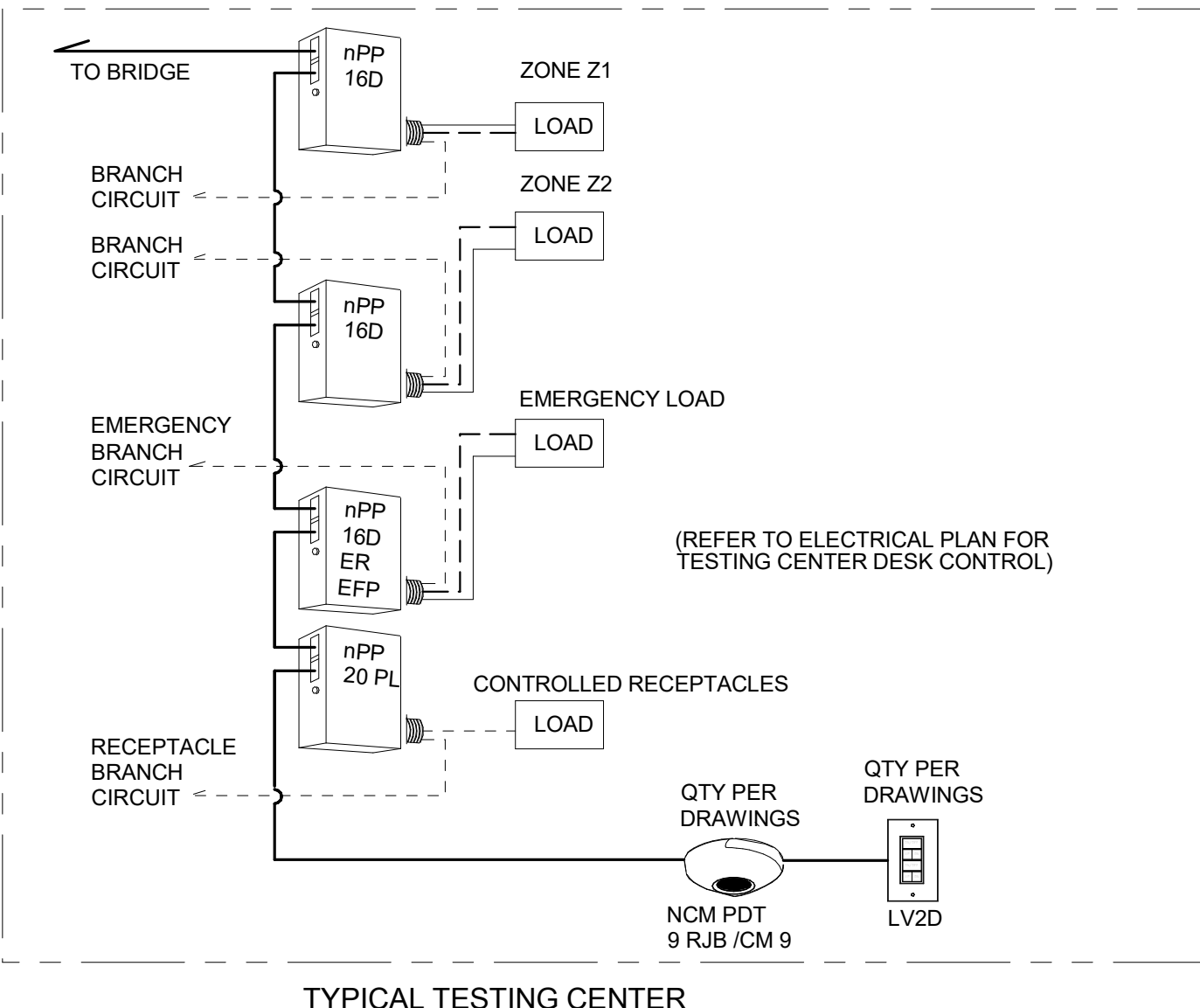
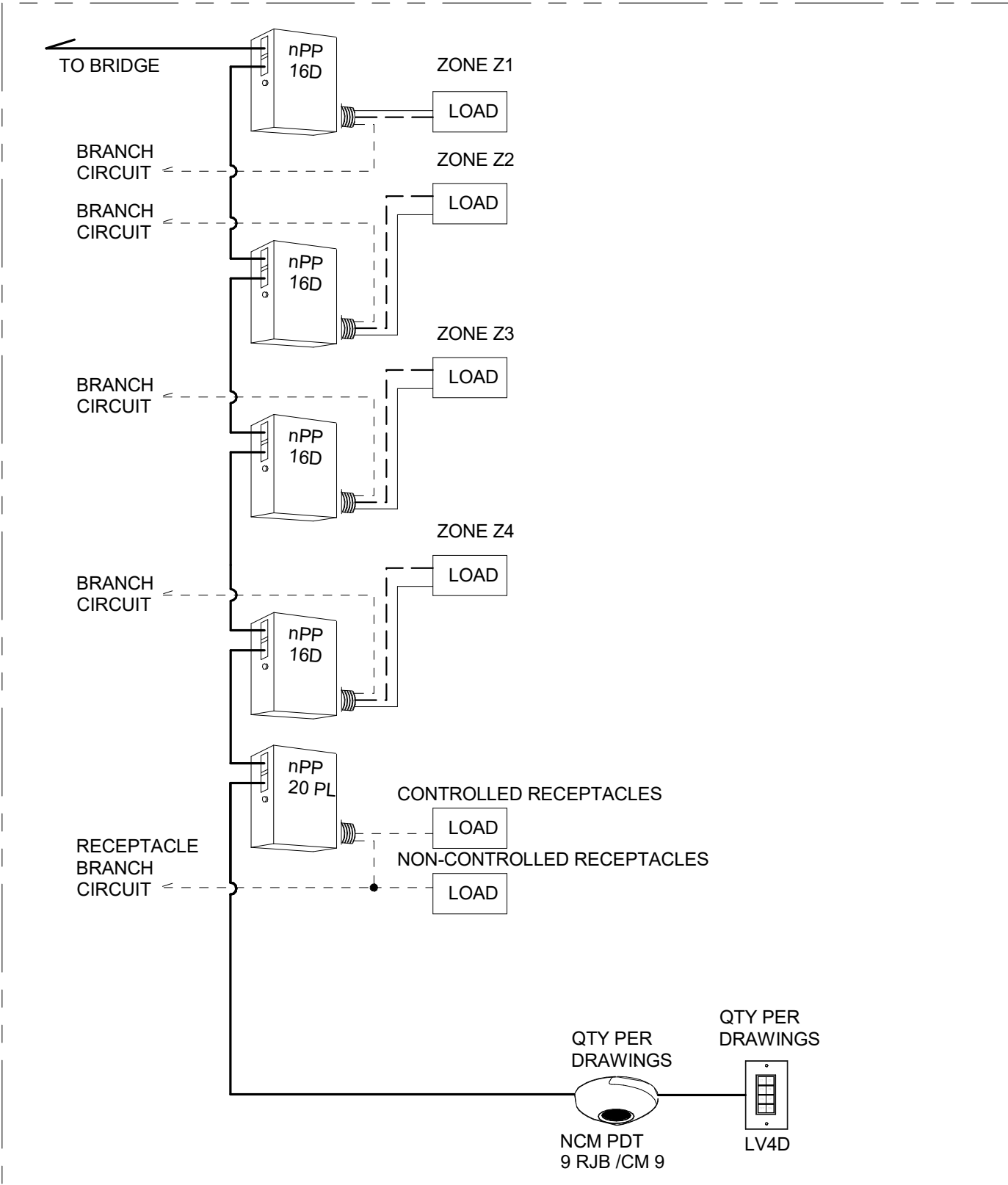
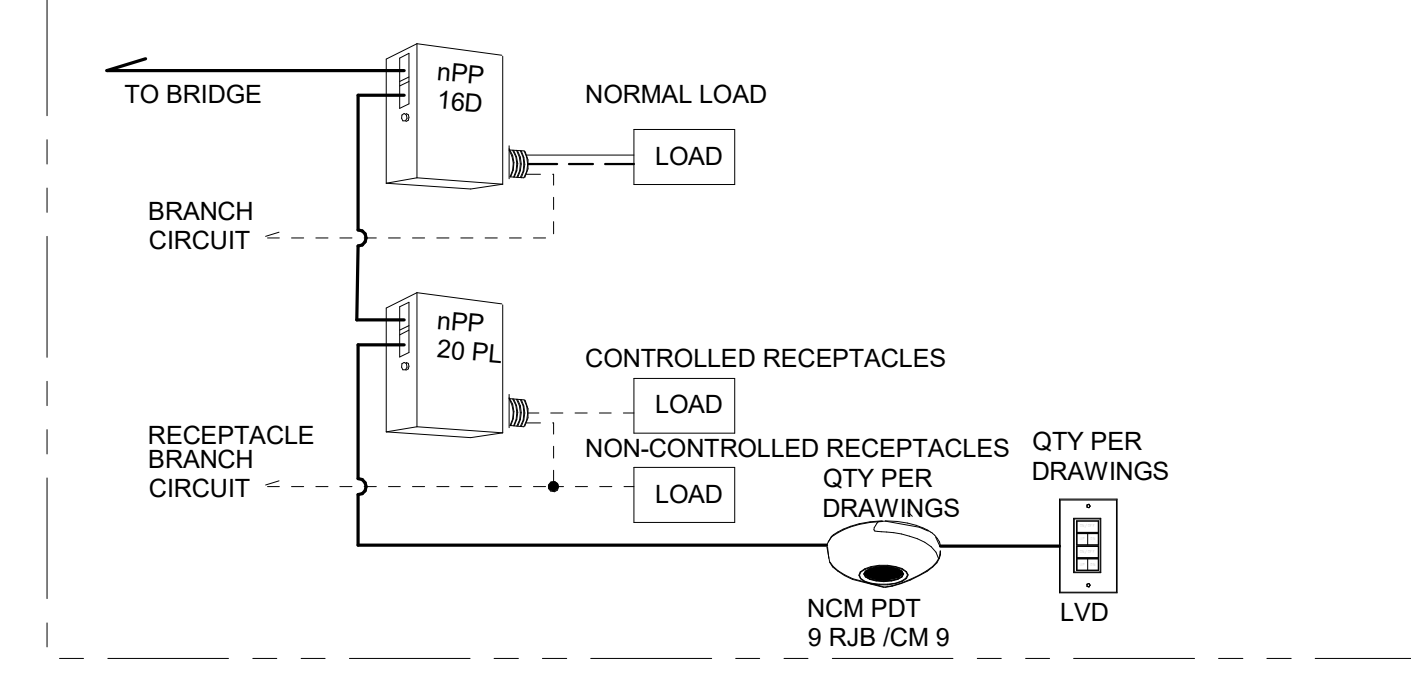
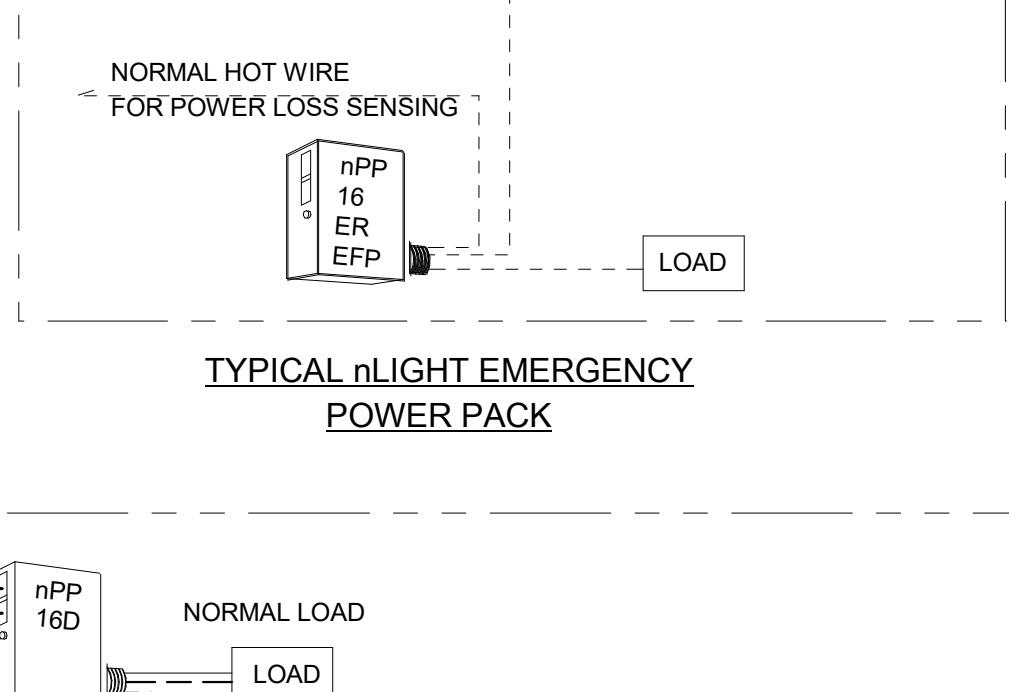
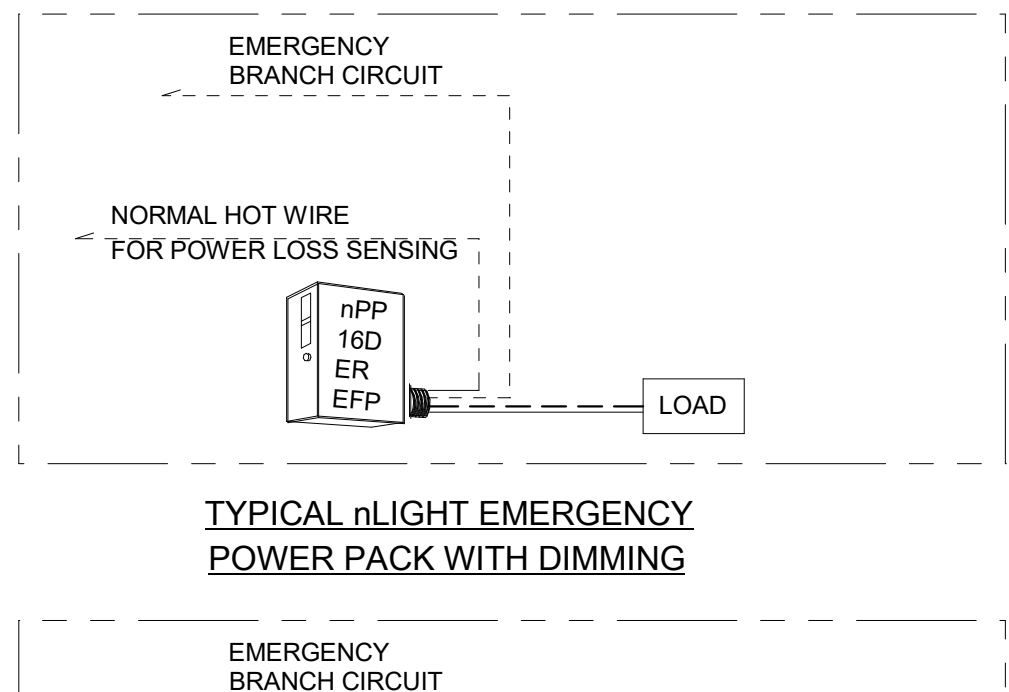
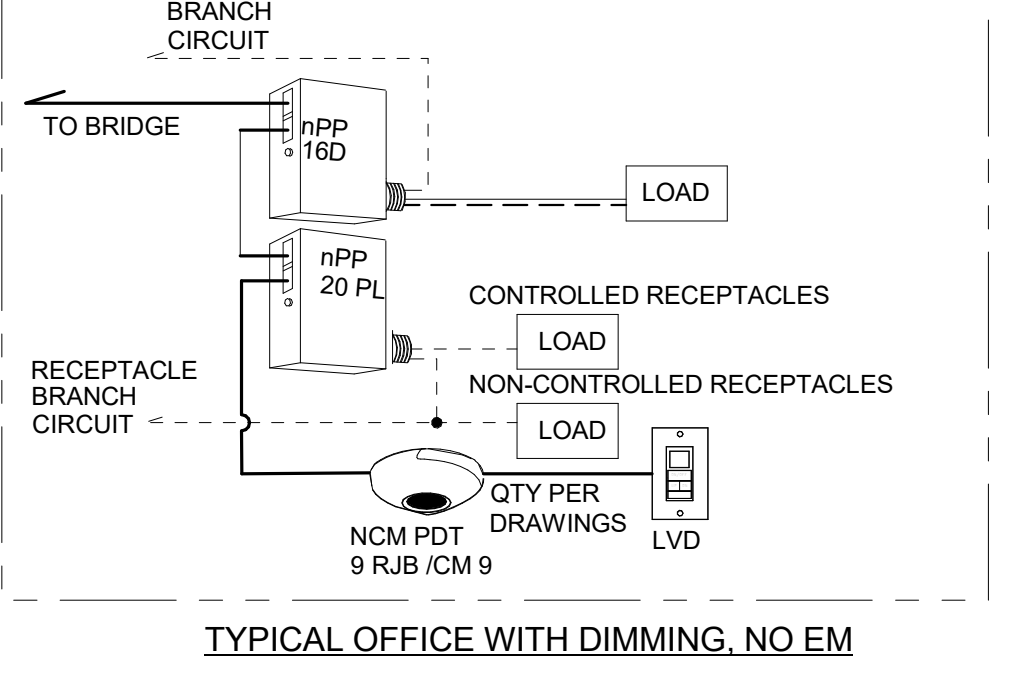
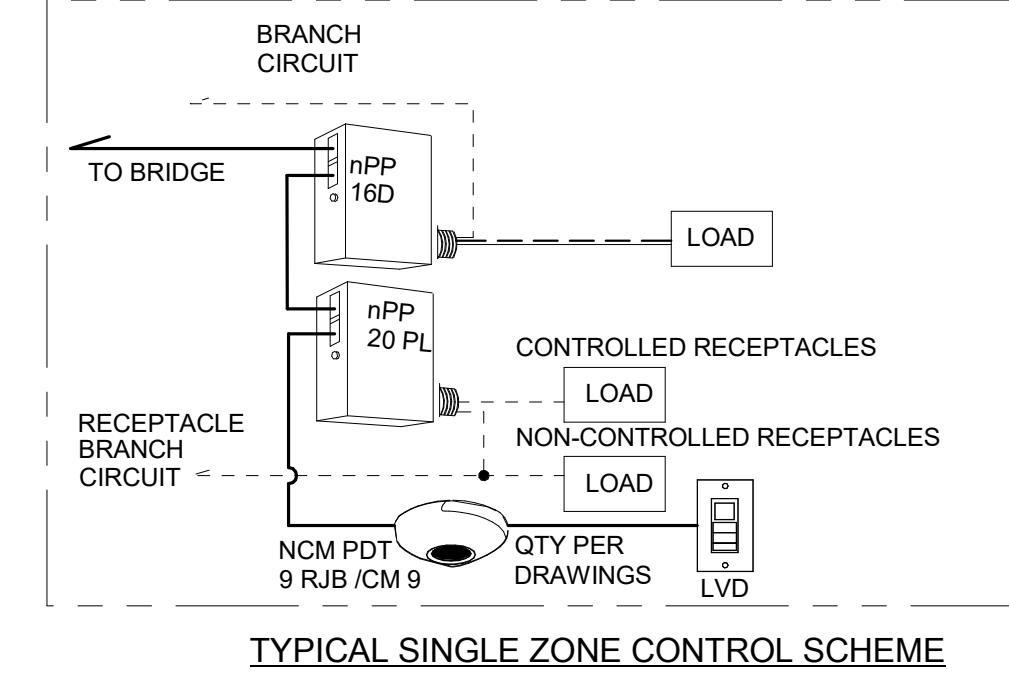
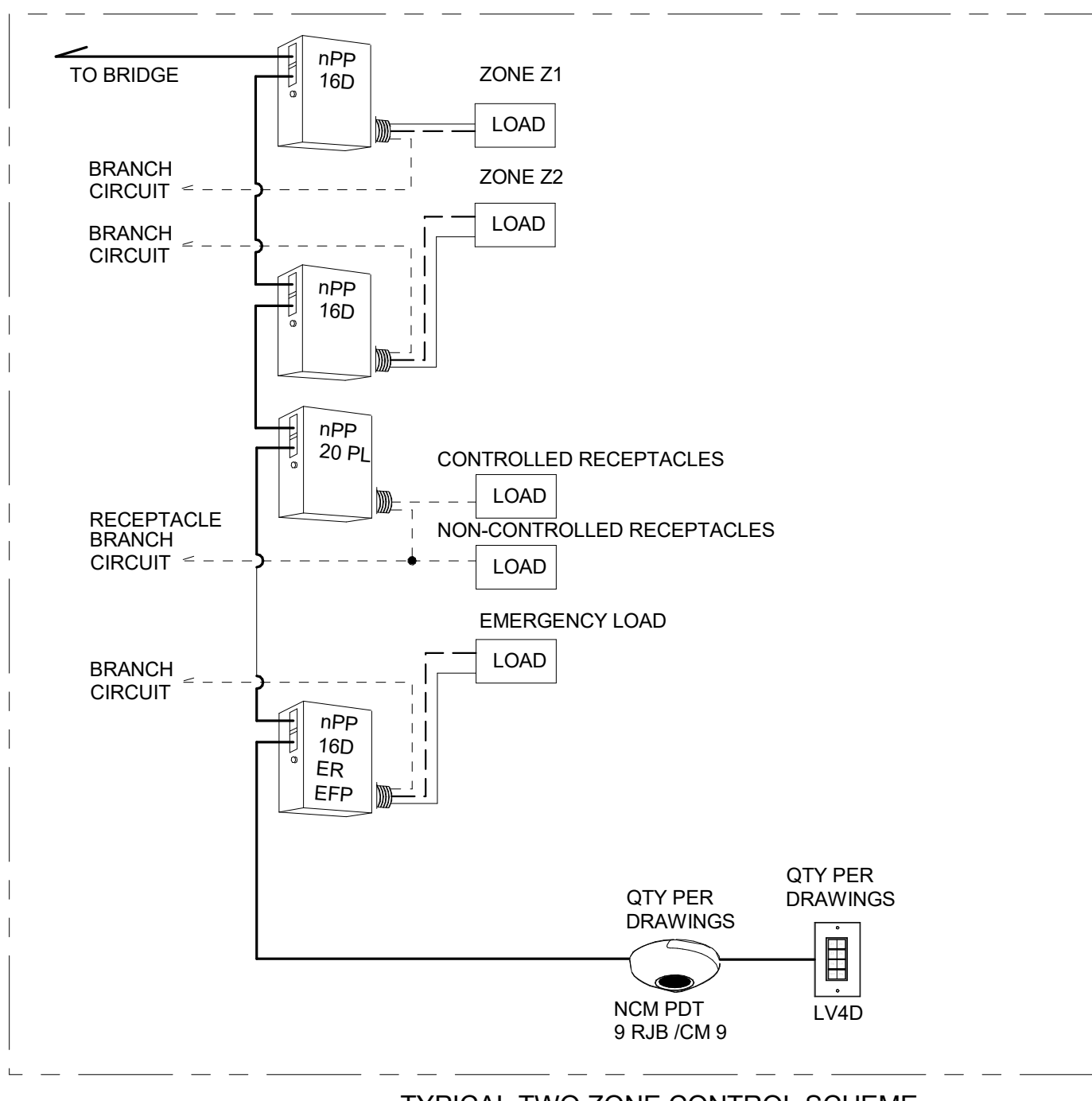
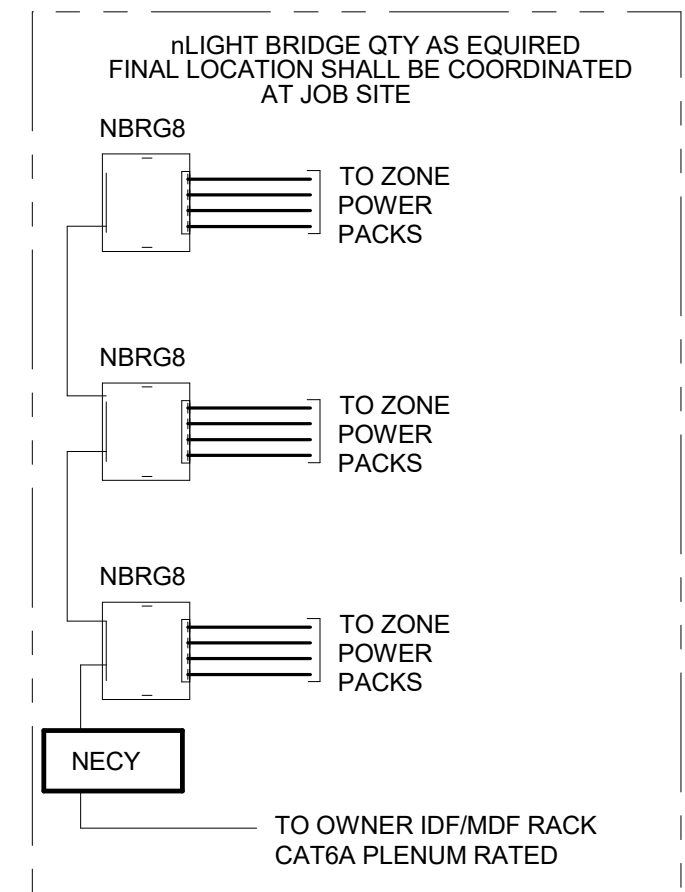
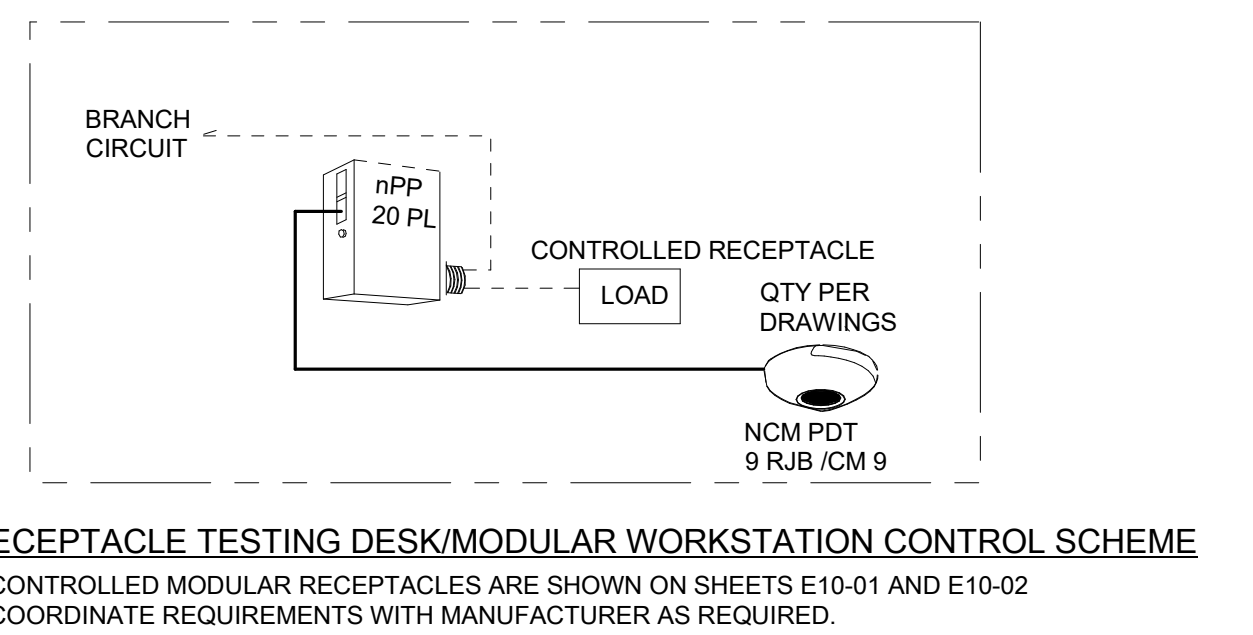


DIAGRAM SYMBOL	PLAN SYMBOL	DESCRIPTION
[Symbol]	LVD	WALL POD: PUSH BUTTON ON/OFF + RAISE/LOWER 1-POLE, LOW VOLTAGE nLIGHT #P0DM DX WH
[Symbol]	LV2D	WALL POD: PUSH BUTTON ON/OFF + RAISE/LOWER 2-POLE, LOW VOLTAGE nLIGHT #P0DM 2P DX WH
[Symbol]	LV4D	WALL POD: PUSH BUTTON ON/OFF + RAISE/LOWER 4-POLE, LOW VOLTAGE nLIGHT #P0DM 4P DX WH
[Symbol]	OS	CEILING MOUNTED, DUAL-TECH, LOW VOLTAGE VACUANCY SENSOR WITH REAR PORT CONNECTION. nLIGHT #High Mount 360° (Model # CM 10) / (Model # CM 9)
[Symbol]	N/A	nLIGHT SERIES RELAY/POWER PACK FOR CIRCUIT CONTROL AND NETWORKED OVER CAT5E nLIGHT #NPP16D
[Symbol]	N/A	nLIGHT SERIES RELAY/POWER PACK FOR CIRCUIT CONTROL, PROGRAMMED AND NETWORKED OVER CAT5E nLIGHT #NPP16
[Symbol]	N/A	nLIGHT SERIES RELAY/POWER PACK FOR RECEPTACLE CONTROL, PROGRAMMED AND NETWORKED OVER CAT5E nLIGHT #NPP20 PL
[Symbol]	N/A	nLIGHT SERIES EMERGENCY RELAY/POWER PACK FOR EMERGENCY CIRCUIT CONTROL, PROGRAMMED AND NETWORKED OVER CAT5E nLIGHT #NPP16 ER EFP
[Symbol]	N/A	nLIGHT SERIES EMERGENCY RELAY/POWER PACK FOR EMERGENCY CIRCUIT CONTROL, PROGRAMMED AND NETWORKED OVER CAT5E nLIGHT #NPP16D ER EFP
[Symbol]	N/A	nLIGHT SERIES BACKBONE BRIDGE DEVICE. USED FOR NETWORKING ALL NLIGHT DEVICES TOGETHER IN A NETWORK OVER CAT5E nLIGHT #NBRG 8
[Symbol]	N/A	NLIGHT ECLYPSE SYSTEM CONTROLLER TO COMMUNICATES OVER IP, ALLOWING THE SYSTEM CONTROLLER AND CONNECTED LIGHTING CONTROLS DEVICES TO BE ACCESSED AND CONFIGURED ACROSS A LOCAL AREA NETWORK. nLIGHT #NBRG 8
[Symbol]	N/A	nLIGHT A SMALL IN-LINE WIRED DEVICE THAT DIGITALLY INTERFACES AN NLIGHT-ENABLED ZONE WITH A NON-NLIGHT DEVICE WITH RS-232 OR RS-485 OUTPUTS



WIRE LEGEND
 - - - 0-10V DIMMING WIRE PLENUM RATED
 - - - LINE VOLTAGE (120V OR 277V)
 - - - CAT5E CABLE PLENUM RATED



FIRE ALARM SYSTEM GENERAL NOTES: (EXISTING SYSTEM)

- FIRE ALARM CONTRACTOR TO PROVIDE AND INSTALL NEW FIRE ALARM DEVICES IN LOCATIONS GIVEN AND WIRE BACK TO EXISTING FIRE ALARM CONTROL PANEL.
ALL FIRE ALARM WIRING TO BE FLEMUR RATED AND INSTALLED IN RED RACEWAY. ALL RACEWAY IN FINISHED AREAS TO BE OF THE METALLIC WIREMOLD TYPE (COLOR SELECTED BY ARCHITECT). WHERE CONDUIT IS USED AS THE PREDOMINATE TYPE OF RACEWAY CONDUIT MAY BE USED (AT ARCHITECT'S DISCRETION) AND MUST BE PAINTED OUT TO MATCH SURROUNDING AREA.
ANY SURFACE MOUNTED RACEWAY TYPE ON FINISHED WALL IN OCCUPIED SPACES SHALL BE SELECTED BY ARCHITECT INCLUDING COLOR.
- PRIOR TO SUBMITTING BID, CONTRACTOR SHALL WALK EACH BUILDING AND BECOME FAMILIARIZED WITH THE BUILDING CONSTRUCTION. TAKE NOTE TO ALL CEILING AND WALL MATERIALS PRIOR TO BIDDING. NO ADDITIONAL COST WILL BE INCURRED BY THE OWNER FOR WORK THAT COULD HAVE BEEN REASONABLY DETERMINED AND/OR AVOIDED HAD THE CONTRACTOR FIELD VERIFIED EXISTING BUILDING CONSTRUCTION TYPE AND CONDITIONS PRIOR TO BIDDING.
- FIRE ALARM CONTRACTOR TO MOUNT VISUAL STROBES AT 80" AFF TO BOTTOM OF BOX OR AS REQUIRED BY LOCAL JURISDICTION.
- FIRE ALARM CONTRACTOR TO MOUNT PULL STATIONS AT 48" AFF TO TOP OF BOX. OPERATING HANDLE HEIGHT NOT TO EXCEED 48" AFF.
- FIRE ALARM CONTRACTOR SHALL VERIFY THAT ALL FIRE ALARM DEVICES CONFORM TO ILLINOIS ACCESSIBILITY CODE REQUIREMENTS.
- FIRE ALARM CONTRACTOR TO PROVIDE AND INSTALL FIRE ALARM ZONE MAP IN A PLEXI-GLASS FRAME. MAPS TO BE MOUNTED NEXT TO CONTROL AND ANNUNCIATOR PANELS. GIVE (5) COPIES TO OWNER. SHOW ALL INITIATING DEVICES AND NAC PANELS. MAPS SHALL BE LEGIBLE AND OF A SIZE NO LARGER THAN 17"x22" UNLESS OTHERWISE AGREED UPON BY THE OWNER AND ENGINEER. DEVICES AND TEXT (I.E. ROOM NUMBERS) SHALL BE OF A SIZE SO AS TO BE CLEARLY LEGIBLE. TEXT TO BE A MINIMUM 3/32" IN HEIGHT.
- TAMPER SWITCHES TO INDICATE "SUPERVISORY" ONLY.
- EACH SIGNAL CIRCUIT SHALL NOT EXCEED 1.3 AMPS. ADJUST WIRE SIZES TO LIMIT VOLTAGE DROP AS PER NFPA 72 AND LOCAL CODE.
- PROVIDE AND INSTALL ADDITIONAL POWER SUPPLIES/EXTENDER PANELS ("NAC" PANELS) AND VOICE AMP PANELS AS REQUIRED FOR PROPER OPERATION OF NOTIFICATION CIRCUITS AND TO MINIMIZE WIRING RUNS TO FIRE ALARM CONTROL PANEL AND TO MEET SLC CIRCUIT DISTANCE LIMITATIONS. "NAC" PANELS SHALL BE INSTALLED IN JANITOR CLOSETS OR STORAGE ROOMS IF APPROVED BY THE OWNER. "NAC" PANELS WILL NOT BE INSTALLED ABOVE CEILINGS OR IN CEILING SPACES.
- PROVIDE AND INSTALL RED PREFINISHED BACK BOX WHERE SURFACE MOUNTED BOXES ARE REQUIRED. INSTALL MANUFACTURER TRIM PLATE AS REQUIRED. COORDINATE COLOR PRIOR TO ORDERING.
- CONTRACTOR SHALL MAINTAIN AN OPERABLE FIRE ALARM SYSTEM AT ALL TIMES. AT NO TIME SHALL THE BUILDING BE LEFT UNPROTECTED WITHOUT NOTIFICATION IN WRITING TO OWNER AND FIRE DEPARTMENT. MINIMUM 48 HOURS ADVANCED NOTICE IS REQUIRED. CONTRACTOR SHALL HIRE FIRE DEPARTMENT APPROVED GUARD/FIRE DEPARTMENT PERSONNEL TO WATCH BUILDING WHEN LEFT UNPROTECTED. MINIMIZE SYSTEM DOWN TIME TO THE FULLEST EXTENT POSSIBLE.
- CONTRACTOR SHALL PROVIDE BATTERY BACKUP IN ORDER TO OBTAIN 24 HOURS OF STAND BY OPERATION IN THE EVENT OF A POWER FAILURE, THEN 2 HOURS OF ALARM TIME OR 15 MINUTES OF EMERGENCY ALARM OPERATION THEREAFTER AT MAXIMUM LOAD.
- PROGRAM FIRE ALARM CONTROL PANEL TO DISPLAY ADDRESSABLE DEVICE TYPE, ITS ADDRESS AND ITS RESPECTIVE LOCATION. EXACT ROOM NAMES AND NUMBERS SHALL BE VERIFIED IN THE FIELD WITH THE OWNER. DO NOT USE ROOM NAME AND NUMBER INFORMATION INDICATED ON THE DRAWINGS WITHOUT ARCHITECT/OWNERS CONSENT IN WRITING. PRIOR TO PROGRAMMING FIRE ALARM CONTROL PANEL, SURVEY THE BUILDING WITH THE ARCHITECT/OWNER TO OBTAIN THE CORRECT ROOM NAME AND NUMBERING INFORMATION TO BE DISPLAYED ON THE CONTROL PANEL AND ANNUNCIATOR PANEL. SURVEYING AND PROGRAMMING OF THE CONTROL PANEL AS DESCRIBED ABOVE WILL BE DONE BY THE CONTRACTOR AS PART OF THIS CONTRACT.
- SET EACH INITIATING DEVICE WITH ADDRESSABLE STATION NUMBER AS REQUIRED. LABEL EACH DEVICE WITH ADDRESS NUMBER. PROVIDE LIST OF ADDRESSABLE DEVICE LOCATION NUMBERS TO OWNER. LABEL EACH NOTIFICATION DEVICE WITH CIRCUIT INFORMATION. INCLUDE BAR CODE ON EACH DEVICE AS WELL. SEE SPECIFICATIONS.
- CONTRACTOR SHALL TURN OVER ALL SMOKE DETECTOR DUST CAPS TO OWNER UPON COMPLETION OF PROJECT.
- SMOKE AND/OR HEAT DETECTORS SHALL BE INSTALLED A MINIMUM OF 6 FEET AWAY FROM AIR SUPPLY OR AIR RETURN DIFFUSER GRILLES SO AS PREVENT FALSE ALARMS.
- THE CONTRACTOR SHALL PERFORM AN INITIAL SYSTEM CHECKOUT TO DETERMINE FUNCTIONABILITY OF THE EXISTING SYSTEM PRIOR TO THE START OF WORK. PROVIDE DOCUMENTATION TO THE OWNER IDENTIFYING ANY FIRE ALARM COMPONENTS NOT CURRENTLY WORKING. IF THIS DOCUMENT IS NOT PROVIDED TO THE OWNER PRIOR TO THE START OF WORK, THE CONTRACTOR IS ACKNOWLEDGING THAT ALL EXISTING SYSTEM COMPONENTS ARE IN PROPER WORKING ORDER.
- FIRE ALARM SYSTEM DEMOLITION WORK SHALL BE PERFORMED AS SOON AS PRACTICAL IN ORDER TO LEAVE SUFFICIENT TIME DURING CONSTRUCTION TO CORRECT ANY PROBLEMS ENCOUNTERED WITH THE WIRING SYSTEM. THE CONTRACTORS SCOPE OF WORK SHALL INCLUDE REMOVAL OF FIRE ALARM DEVICES SHOWN ON DEMOLITION PLAN (TO BE REMOVED) AND TO ASCERTAIN ANY WIRING PROBLEMS OR ILLEGAL T-TAPPING OF HARD WIRED INITIATING AND NOTIFICATION CIRCUITS AS THEY MAY HAVE AN AFFECT ON ALL REMAINING DEVICES. PROVIDE A WRITTEN REPORT TO THE OWNER IDENTIFYING ALL DEFECTIVE DEVICES OR IMPROPER WIRING CONDITIONS.
- IN FINISHED AREAS WHERE EXISTING SURFACE MOUNTED BACKBOXES, WIREMOLD OR CONDUIT HAVE BEEN REMOVE, PATCH AND PAINT WALLS AND/OR CEILINGS TO MATCH SURROUNDING AREAS. COORDINATE WITH THE ARCHITECT AND OWNER. NEW DEVICES AND RACEWAYS MAY BE MOUNTED AT NEW LOCATIONS.
- ANY PORTIONS OF EXISTING CEILINGS TO BE REMOVED BY CONTRACTOR FOR INSTALLATION OF THEIR WORK SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. MATCH EXISTING CEILING MATERIAL. PATCH AND PAINT AS REQUIRED. CONTRACTOR SHALL ARCHIVE AND DOCUMENT ALL EXISTING CEILING CONDITIONS ELECTRONICALLY PRIOR TO BEGINNING THE PROJECT. IF ANY DAMAGE IS FOUND THEY SHALL BRING IT TO THE ATTENTION OF THE OWNER IN WRITING PRIOR TO PERFORMING WORK. IF THIS DOCUMENTATION IS NOT PROVIDED THE CONTRACTOR IS ASSUMING THE LIABILITY FOR REPLACING ALL DAMAGED CEILING SYSTEMS DISCOVERED AFTER THE COMPLETION OF THE PROJECT. ALL DAMAGED CEILING SYSTEMS WILL BE REPLACED AT THE CONTRACTORS EXPENSE. PROVIDE WRITTEN DOCUMENTATION TO THE OWNER AT THE PRE-CONSTRUCTION MEETING.
- ALL WALL AND FLOOR PENETRATIONS SHALL BE SLEEVED AND FIREPROOFED.
- THE CONTRACTOR SHALL COORDINATE PROJECT SCHEDULING WITH THE OWNER TO ACCOMMODATE ALL SCHOOL PROGRAMS. THE SCHOOL WILL OCCUPY ONLY AREAS DETERMINED TO BE SAFE AND NOT UNDER CONSTRUCTION PER THE AGREED UPON SCHEDULE. COORDINATE SCHEDULING OF WORK WITH THE OWNER UPON AWARD OF BID.
- CONTRACTOR SHALL INCLUDE ALL EXPENSES FOR LOCATING AND REPLACING ALL EXISTING END-OF-LINE RESISTORS IN ORDER TO ALLOW EXISTING DEVICES TO BE COMPATIBLE WITH THE NEW SYSTEM AND/OR EXISTING (NEWER) CONTROL PANEL.
- ALL NEW PULL STATIONS LOCATED NEAR VESTIBULES SHALL BE COORDINATED WITH ARCHITECT/FIRE DEPARTMENT PRIOR TO INSTALLATION. IN SOME CASES, THE FIRE DEPARTMENT MAY REQUIRE DEVICES TO BE INSTALLED WITHIN THE VESTIBULE. INCLUDE ALL ASSOCIATED COST FOR RELOCATION OF DEVICES TO THE VESTIBULE PER THE FIRE DEPARTMENT'S DIRECTION.
- INITIATING DEVICE, NOTIFICATION APPLIANCE AND SIGNALING LINE CIRCUITS: MEET NFPA 72 REQUIREMENTS.

INITIATING DEVICE CIRCUITS: CLASS A, LEVEL 1.
NOTIFICATION APPLIANCE CIRCUITS: CLASS A, LEVEL 1.
SIGNALING LINE CIRCUITS: CLASS A, LEVEL 1.
INSTALL NO MORE THAN 200 TOTAL ADDRESSABLE DEVICES ON EACH SIGNALING LINE CIRCUIT.
INCLUDE NO MORE THAN 125 INITIATING DEVICES AND 75 MODULES.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER SPECIFICATIONS. INCLUDE ONE LINE RISER DIAGRAMS AND POINT-TO-POINTS. INCLUDE ACTUAL BUILDING WIRING PLANS SHOWING WIRING OF ALL DEVICES. WIRE ALL DEVICES FROM DEVICE-TO-DEVICE. DO NOT INSTALL INTERMEDIATE JUNCTION BOXES FOR T-TAPS.

FIRE ALARM CONTRACTOR SHALL BE A LICENSED STATE OF ILLINOIS FIRE ALARM CONTRACTOR HOLDING AT LEAST A NICET LEVEL 2 CERTIFICATION.

SYSTEM INSTALLATION SHALL BE TESTED AND CERTIFIED PER NFPA 72 REQUIREMENTS. SYSTEM TESTING MUST BE REVIEWED AND ACCEPTED BY THE LOCAL FIRE DEPARTMENT.

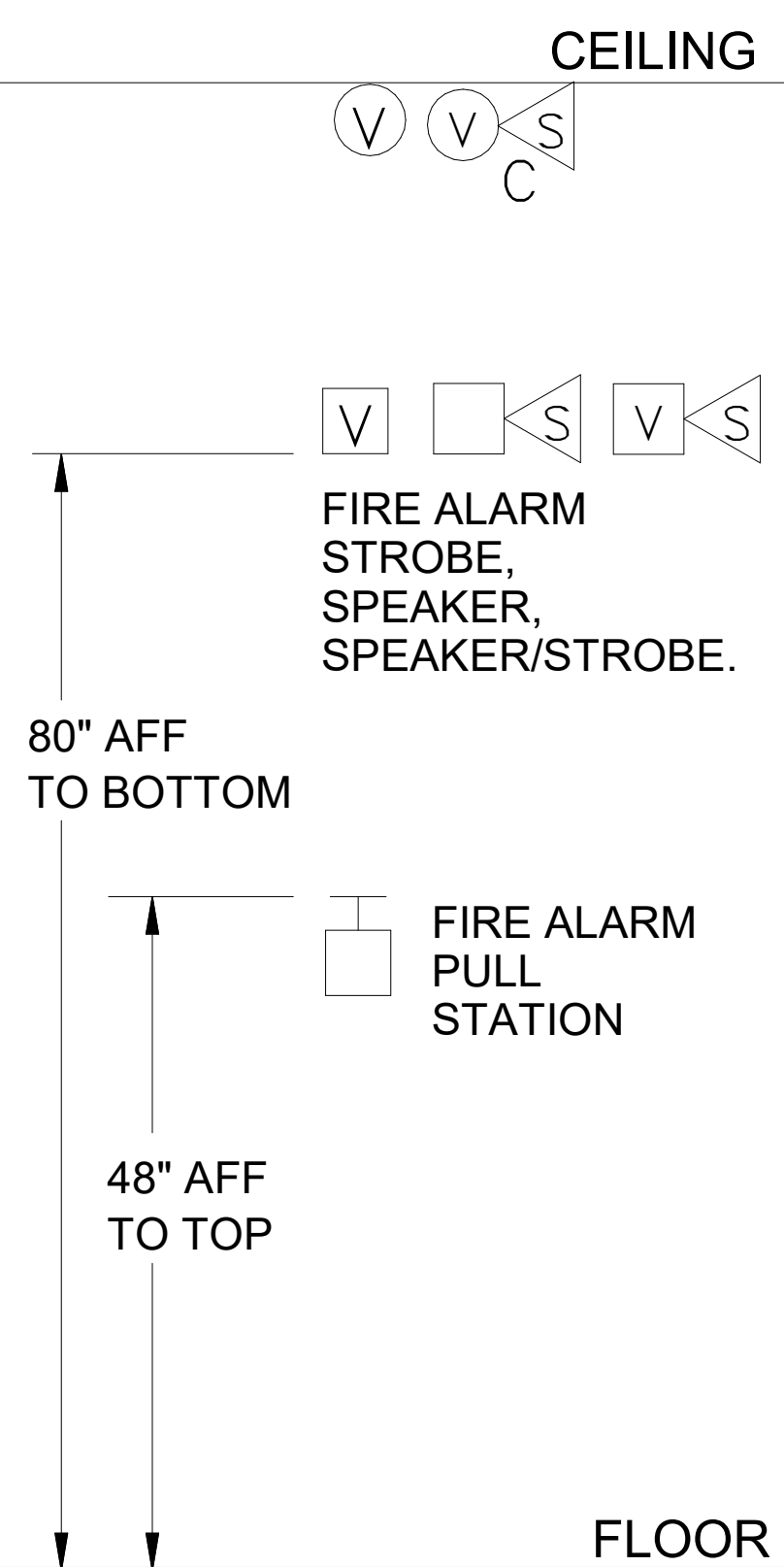
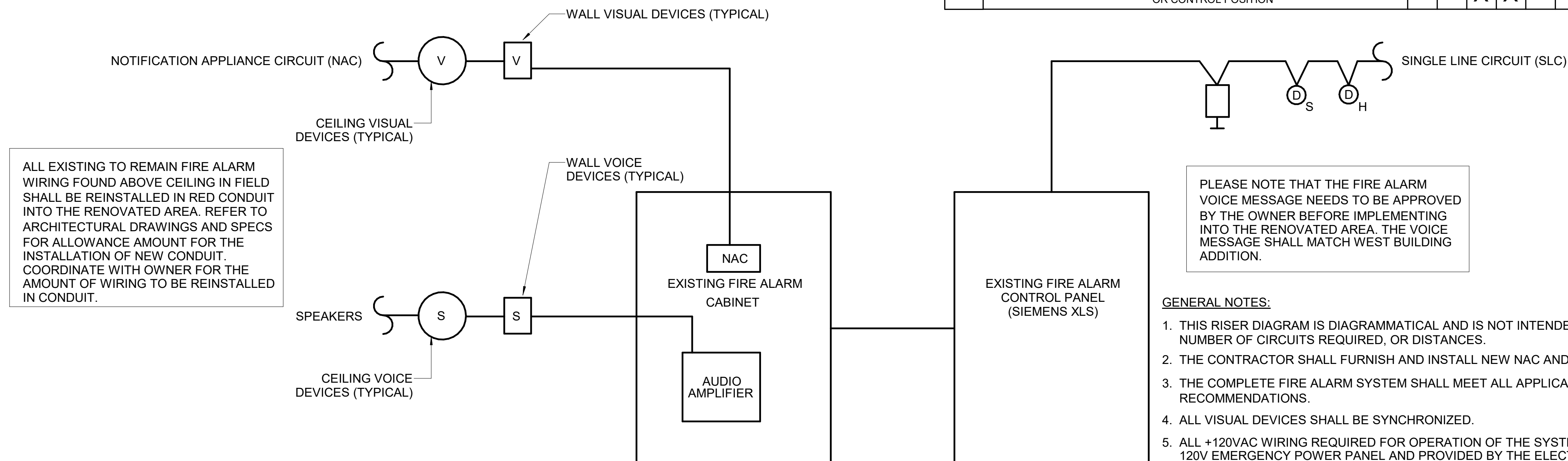
ALL WORK SHALL BE PERFORMED BY THE COLLEGE'S FIRE ALARM INTEGRATOR OF RECORD:
FOR SYSTEM UPGRADES, PARTS AND INSTALLATION CONTACT:
BRIAN SCHMID - 630.981.5900 - b.schmid@first-sec.com
FIRST SECURITY SYSTEMS, INC.
1811 HIGH GROVE, SUITE 191, NAPERVILLE, IL 60540

FOR SYSTEM PROGRAMMING CONTACT:
STEPHEN HUPP - 847.217.7509
FIRE SAFETY & SECURITY LIFE CYCLE SALES EXECUTIVE
SIEMENS SMART INFRASTRUCTURE
585 SLAWIN CT., MOUNT PROSPECT, IL 60056

UPON COMPLETION OF ALL FIRE ALARM WORK, THE CONTRACTOR SHALL TURN OVER ALL SYSTEM PASSCODES TO THE OWNER FOR SAFEKEEPING. INCLUDE ALL DOCUMENTATION SHOWING TRANSFERRING OF PASSCODES TO THE OWNER.

1 EXISTING FIRE ALARM RISER DIAGRAM

NOT TO SCALE



- NOTES:**
- ALIGN DEVICES VERTICALLY WHERE POSSIBLE.
 - DEVICE BACK BOXES SHALL MATCH FACEPLATE CONFIGURATION (I.E. SINGLE-GANG, TWO-GANG, ETC...).
 - REFER TO GENERAL ELECTRICAL AND FIRE ALARM NOTES FOR ADDITIONAL INFORMATION.

2 FIRE ALARM MOUNTING DETAIL

NOT TO SCALE

INPUTS TO FIRE ALARM SYSTEM	FACP ANNUNCIATION/CONTROL FEATURES							
	ACTIVATE MAIN FACP CABINET ALARM INDICATOR	ACTIVATE MAIN FACP CABINET AUDIBLE ALARM SIGNAL	ACTIVATE MAIN FACP CABINET COMMON SUPERVISORY SIGNAL INDICATOR	ACTIVATE MAIN FACP CABINET AUDIBLE SUPERVISORY SIGNAL	ACTIVATE MAIN FACP CABINET COMMON TROUBLE SIGNAL INDICATOR	ACTIVATE MAIN FACP CABINET AUDIBLE TROUBLE SIGNAL	ACTIVATE AUDIBLE ALARM NOTIFICATION DEVICES	ACTIVATE VISUAL ALARM NOTIFICATION DEVICES
MANUAL PULL STATIONS	X	X					X	X
OPEN CIRCUIT, SHORT CIRCUIT, GROUND FAULT					X	X		
FACP, TRANSPONDER, NAC AC POWER FAILURE					X	X		
FACP, TRANSPONDER, NAC LOW BATTERY			X	X				
FACP, TRANSPONDER, NAC BATTERY OR CHARGER FAILURE					X	X		
NAC OR SLC LOOP OPEN CIRCUIT, SHORT CIRCUIT, GROUND FAULT					X	X		
INITIATION DEVICE FAILURE OR COMMUNICATION FAILURE					X	X		
FIRE ALARM PANEL MANUAL FIRE DRILL			X	X			X	X
FACP, TRANSPONDER, NAC ABNORMAL SWITCH OR CONTROL POSITION			X	X				

GENERAL ALARM SYSTEM OPERATION

(COORDINATE FINAL SEQUENCE OF OPERATION WITH OWNER PRIOR TO PROGRAMMING)

Perkins&Will

410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
1312.755.0770
312.755.0775
www.perkinswill.com

CONSULTANTS

MEP
MECHANICAL SERVICES ASSOC. CORP.
11 S. VIRGINIA STREET
CRYSTAL LAKE, IL 60014

PROJECT
ADJACENCIES RENOVATIONS

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016

Oakton College
OAKTON COLLEGE

ISSUED FOR BID 23 SEPTEMBER 24

KEY PLAN

ISSUE CHART

ISSUED FOR BID	23 SEP 24
DATE	
Job Number	021074.000
TITLE	

FIRE ALARM NOTES AND DETAILS

SHEET NUMBER

E51-01

GENERAL ELECTRICAL NOTES:

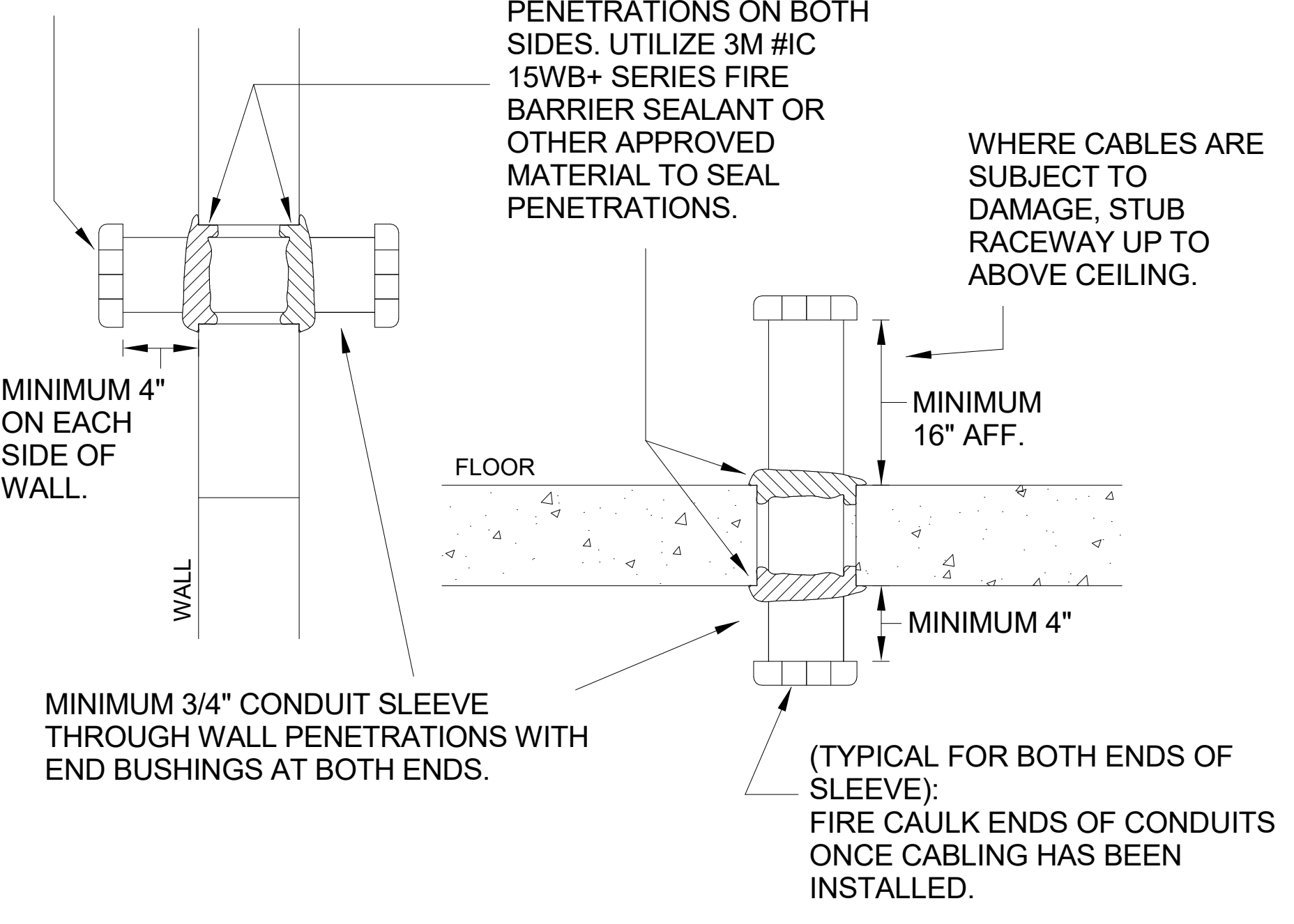
- PRIOR TO SUBMITTING THIS BID, THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND THOROUGHLY ACQUAINT THEMSELVES WITH ALL EXISTING CONDITIONS AND DETERMINE HOW THEY EFFECTIVELY WORK. THEY SHALL INCLUDE IN THEIR BID ANY ALTERATION, RELOCATION, REROUTING, ETC., OF EXISTING FACILITIES, WIRING, CONDUIT, PANELBOARDS REQUIRED FOR INSTALLATION OF NEW WORK. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE GIVEN CONSIDERATION FOR ADDITIONAL COMPENSATION DUE TO THEIR NEGLIGENCE TO COMPLY WITH FOREGOING REQUIREMENTS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CODES:
2015 INTERNATIONAL BUILDING CODE
2014 NATIONAL ELECTRICAL CODE
2015 INTERNATIONAL MECHANICAL CODE
2015 INTERNATIONAL FIRE CODE, NFPA 72
ILLINOIS ACCESSIBILITY CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
IN ADDITION TO THE ABOVE, FOLLOW ALL LOCAL CODES AND AMENDMENTS, UTILITY COMPANY REQUIREMENTS AND ANY OTHER REQUIREMENTS APPLICABLE TO THIS JOB. ELECTRICAL CONTRACTOR SHALL SUBMIT ANY REQUIRED DRAWINGS FOR APPROVAL TO ANY AGENCIES REQUIRING THEM AND OBTAIN NECESSARY PERMITS AT NO ADDITIONAL BID COSTS. ALL EQUIPMENT SHALL BE NEMA STANDARDS AND SHALL BE U.L. LISTED.
- MOUNT RECEPTABLES, DATA JACKS AND TELEPHONE JACKS AT 16" AFF TO BOTTOM UNLESS OTHERWISE INDICATED.
RECEPTABLES FOR GENERAL POWER SHALL BE NEMA 5-20R "TAMPER RESISTANT" HEAVY DUTY SPEC GRADE DUPLEX RECEPTACLE, WHITE IN COLOR UNLESS OTHERWISE DIRECTED BY THE ARCHITECT/OWNER. CONTROLLED RECEPTABLES SHALL BE NEMA 5-20R "TAMPER RESISTANT" LEGRAND TRS62 SERIES, WHITE IN COLOR UNLESS OTHERWISE DIRECTED BY THE ARCHITECT/OWNER.
REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
REFER TO TECHNOLOGY NOTES AND DETAILS FOR ADDITIONAL INFORMATION ON DATA AND TELEPHONE JACKS.
- ALL SPECIAL RECEPTABLES IDENTIFIED ON DRAWINGS BY * SHALL BE COORDINATED WITH THE OWNERS EQUIPMENT PLUG CONFIGURATION SO THAT NO CONFLICTIONS OCCUR BEFORE INSTALLATION. VERIFY WIRE SIZE AND QUANTITY WITH PLUG CONFIGURATION AS WELL (I.E. COPIER, RANGE/OVEN).
- MOUNT WALL SWITCHES AT 48" AFF TO TOP. SWITCHES IDENTIFIED AS 120VOLT RATED SHALL BE 20 AMP RATED HEAVY DUTY SPEC GRADE, WHITE IN COLOR UNLESS OTHERWISE INDICATED. COORDINATE COLOR WITH ARCHITECT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHEN USING LINE VOLTAGE SWITCHES, INCLUDE NEUTRAL WIRE PER CODE.
- REFER TO ALL ARCHITECTURAL AND CASEWORK DRAWINGS DURING INSTALLATION OF ALL SWITCHES, RECEPTABLES, TELEPHONE JACKS, DATA JACKS, JUNCTION BOXES, CLOCKS, VISUAL STROBES/HORN DEVICES, PULL STATIONS AND OTHER DEVICES SO THAT NO CONFLICTIONS WILL BE ENCOUNTERED. INFORM ARCHITECT OF ANY CONFLICTS THAT DO OCCUR BEFORE THE INSTALLATION OF ABOVE LISTED DEVICES.
- MOUNT CONDUIT AND ELECTRICAL DEVICES FROM THE TOP CHORD OF BAR JOISTS ONLY. **DO NOT RUN CONDUITS ABOVE TOP CHORD OF BAR JOIST, THROUGH WEB OF ROOF DECKING MATERIAL ABOVE OR WITHIN 6" OF ROOF DECK SO AS TO PREVENT DAMAGE FROM ROOFING NAIL.**
- MINIMUM SIZE OF CONDUCTORS SHALL BE #12 AWG FOR POWER AND LIGHTING BRANCH CIRCUITS. USE #10 AWG MINIMUM IF RUNS ARE OVER 75 FEET. MINIMUM SIZE FOR "EMERGENCY CIRCUITS" SUCH AS EXIT SIGN AND EMERGENCY/NIGHT LIGHTS SHALL BE MINIMUM #10 AWG. SIZE ALL CONDUCTORS IN ACCORDANCE WITH N.E.C. SECTION 310-15. MAINTAIN PROPER CONDUIT FILL CAPACITIES AND SIZE CONDUCTORS IN ACCORDANCE WITH ADJUSTMENT FACTORS LISTED IN N.E.C. 310-15 TABLE NOTE 8(a) (MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A RACEWAY). USE MULTIPLE PARALLEL RACEWAYS TO AVOID DERATING OF CONDUCTOR CAPACITIES. OTHERWISE INCREASE SIZE OF CONDUCTORS SO AS TO FOLLOW N.E.C. REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL SIZE ALL CONDUCTORS OVER 75 FEET SO AS TO MAINTAIN A VOLTAGE DROP EQUAL TO OR LESS THAN 2%.
- BALANCE ALL PHASE WIRES WITHIN 5%.
- INSTALL A SEPARATE DEDICATED NEUTRAL CONDUCTOR FOR EACH PHASE OF BOTH LIGHTING AND POWER MULTI-WIRE BRANCH CIRCUITS. IF A MULTI-WIRE BRANCH CIRCUIT CONTAINS THREE PHASE WIRES, THE CIRCUIT WILL REQUIRE THREE DEDICATED NEUTRALS.
THE USE OF MULTI-POLE BRANCH BREAKERS TO ELIMINATE NEUTRAL CONDUCTORS IS NOT ALLOWED.
- FOR ALL RECEPTABLES AND LIGHTING FIXTURES THAT DO NOT HAVE CIRCUIT INFORMATION PROVIDED, THE CONTRACTOR WILL CONNECT THESE DEVICES TO THE NEAREST AVAILABLE POWER PANEL SPARE CIRCUIT (OF MATCHING VOLTAGE) FOR THE DEVICE. CONTRACTOR ALSO HAS THE OPTION TO CONNECT TO THE LINE SIDE OF THE NEAREST AVAILABLE CIRCUIT IN THE AREA OF SUFFICIENT SIZE. PROVIDED THERE IS NO DETRIMENTAL EFFECTS IN DOING SO TO THE CIRCUIT CONNECTED TO.
- INSTALL GROUNDING WIRE TO ALL DEVICES. USE GREEN WIRE. CONNECT THE GROUND WIRE TO A DEDICATED GROUND TERMINAL IN ALL DEVICE BOXES AND TO THE DEVICE GROUNDING WIRE.
- STUB CONDUITS FOR ALL TELEPHONE JACKS, DATA JACKS, VIDEO JACKS, ETC., OUT TO ABOVE ACCESSIBLE CORRIDOR CEILING OR TO CORRIDOR CABLE TRAY IF PRESENT. INSTALL END BUSHINGS AND FITTINGS ON END OF EACH CONDUIT STUB IN ORDER TO PROTECT CABLING.
- ALL JUNCTION BOXES ABOVE CEILINGS SHALL HAVE PANEL AND CIRCUIT INFORMATION IDENTIFIED ON OUTSIDE OF COVERPLATE. ALL RECESSED WALL MOUNTED/FLOOR MOUNTED JUNCTION BOXES SHALL HAVE PANEL AND CIRCUIT INFORMATION IDENTIFIED ON THE INSIDE OF THE JUNCTION BOX TOWARD FRONT OF BOX LIP SO AS TO BE VISIBLE WITHOUT REMOVING WIRING DEVICES.
- ALL JUNCTION BOXES INSTALLED ABOVE LAY-IN CEILINGS MUST BE INSTALLED BELOW FIREPROOF/GYPSUM CEILING. BOXES MUST NOT BE INSTALLED WITHIN GYPSUM CEILING MATERIAL. ALL CONDUIT PENETRATIONS THROUGH GYPSUM CEILING MUST BE FIREPROOFED/PATCHED.
- FURNISH AND INSTALL NEMA 3R ELECTRICAL DEVICES FOR ALL EXTERIOR LOCATIONS.
- "EMT" CONDUIT WILL NOT BE INSTALLED IN CONCRETE SLABS. ALL CONDUIT WILL BE INSTALLED PER SPECIFICATION SECTION 260533.
- ALL UNDERGROUND WIRING WILL BE IN CONDUIT AND WILL BE INSTALLED PER N.E.C. AND LOCAL CODES AND COORDINATED IN FIELD PRIOR TO INSTALLATION.
- SLEEVE AND FIREPROOF ALL PENETRATIONS THROUGH WALLS AND FLOORS. ALL CORING BY CONTRACTOR SHALL BE COORDINATED WITH ARCHITECT. PROVIDE AND INSTALL EXPANSION FITTINGS ON ALL CONDUITS AT BUILDING EXPANSION JOINTS. REFER TO ARCHITECTURAL.
- CIRCUIT BREAKERS SERVING FIRE ALARM CONTROL PANEL, SECURITY CONTROL PANEL, EMERGENCY LIGHTS/NIGHT LIGHTS, EXIT SIGNS AND POWER FOR SHUNT TRIP BREAKERS SHALL HAVE LOCK OUT DEVICE INSTALLED ON BREAKER TO PREVENT ACCIDENTAL TURN OFFS.
- ALL NEW RECESSED PANELS INSTALLED SHALL HAVE A MINIMUM OF (3) SPARE 3/4" CONDUITS STUBBED UP IN WALL AND DOWN BELOW FLOOR LINE WHEN LOWER LEVEL IS PRESENT TO ABOVE ACCESSIBLE CEILING FOR FUTURE USE.
- ALL HOUSEKEEPING PADS INDICATED ON DRAWINGS SHALL BE 4" THICK REINFORCED CONCRETE. REFER TO ARCHITECTURAL FOR PARTIAL DETAIL.
- FOR EXISTING ELECTRICAL PANELBOARDS AFFECTED BY NEW WORK, CONTRACTOR SHALL REVIEW EXISTING PANEL, CARD DIRECTORIES AND VERIFY CORRECTNESS BY TRACING BRANCH CIRCUITS. UPDATE AND RECORD INFORMATION ON NEW TYPED PANEL CARD DIRECTORY. VERIFY CURRENT ROOM NAMES AND NUMBERS IN THE FIELD. DO NOT USE ROOM NAMES AND NUMBERS INDICATED ON THE DRAWINGS.
- INSTALL BLANK PREFINISHED STAINLESS STEEL COVERPLATES ON ALL JUNCTION BOXES IN FINISHED AREAS NO LONGER USED AND CREATED BY DEMOLITION. USE BLANK GALVANIZED STEEL COVERPLATES FOR ALL BOXES ABOVE CEILINGS OR IN EXPOSED NON-FINISHED AREAS.
- ALL OUTLETS, VIDEO JACKS, CLOCKS, PROGRAM BELLS, FIRE ALARM DEVICES, SECURITY DEVICES, SPEAKERS, ETC., CONFLICTING WITH NEW CEILING/CEILING HEIGHTS SHALL BE RELOCATED AT OR BELOW NEW CEILINGS, WHICHEVER APPLIES. CONTRACTOR SHALL FURNISH AND INSTALL NEW JUNCTION BOXES, RACEWAY AND WIRING AS REQUIRED FOR EXTENDING SYSTEMS. ALL EXPOSED RACEWAYS SHALL BE OF THE WIREMOLD TYPE.
- WHERE EXISTING CONDUIT AND WIRE CONFLICTS WITH NEW LIGHT FIXTURES BEING INSTALLED, CONTRACTOR SHALL REROUTE AROUND NEW LIGHT FIXTURE. EXTEND CONDUIT AND WIRING AS REQUIRED. CONTRACTOR SHALL NOT DISTURB EXISTING COMPUTER/DATA CABLING UNLESS OTHERWISE INDICATED ON DRAWINGS.
- ANY PORTIONS OF EXISTING CEILINGS TO BE REMOVED BY CONTRACTOR FOR INSTALLATION OF THEIR WORK SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. MATCH EXISTING CEILING MATERIAL, PATCH AND PAINT AS REQUIRED. CONTRACTOR SHALL ARCHIVE AND DOCUMENT ALL EXISTING CEILING CONDITIONS ELECTRONICALLY PRIOR TO BEGINNING WORK. IF ANY DAMAGE IS FOUND THEY SHALL BRING IT TO THE ATTENTION OF THE OWNER IN WRITING PRIOR TO PERFORMING WORK. IF THIS DOCUMENTATION IS NOT PROVIDED THE CONTRACTOR IS ASSUMING THE LIABILITY FOR REPLACING ALL DAMAGED TILES DISCOVERED AFTER THE COMPLETION OF THE PROJECT. ALL DAMAGED TILES FOUND WILL BE REPLACED AT THE CONTRACTORS EXPENSE.
- ALL EXPOSED RACEWAYS INSTALLED IN FINISHED AREAS WILL ONLY BE ALLOWED WHEN APPROVED BY THE ARCHITECT AND THEN SHALL BE OF THE WIREMOLD TYPE. EXPOSED CONDUIT WILL ONLY BE INSTALLED BY PERMISSION OF THE ARCHITECT. ALL EXPOSED CONDUIT INSTALLED IN FINISHED AREAS SHALL BE PAINTED TO MATCH SURROUNDING AREAS.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL CUTTING AND PATCHING SPECIFICATIONS FOR INFORMATION REGARDING PERFORMANCE STANDARDS AND PROCEDURES.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHT FIXTURE ORIENTATION AND PLACEMENT. VERIFY EXACT LOCATION OF ALL CEILING DEVICES (I.E. FIRE ALARM DEVICES, CEILING SPEAKERS) WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR COORDINATION PRIOR TO INSTALLATION.
- THE LIGHTING CONTRACTOR MUST HOLD AN ICC ENERGY EFFICIENCY INSTALLER CERTIFICATION IN ORDER TO PERFORM LIGHTING WORK THAT WILL ALLOW THE OWNER TO OBTAIN COMED ENERGY EFFICIENCY INCENTIVES. **NO EXCEPTIONS**
FOR DEMOLITION OF LIGHT FIXTURES, CONTRACTOR MUST FOLLOW ALL E.P.A. REQUIREMENTS FOR DISPOSAL OF FLUORESCENT LAMPS, BALLASTS AND BATTERIES: HALL LAMPS, BALLASTS AND BATTERIES TO AN E.P.A. APPROVED DISPOSAL SITE. USE D.O.T. APPROVED CONTAINMENT FOR TRANSFER OF LAMPS, BALLASTS AND BATTERIES. PROVIDE PROPER PAPER WORK TO THE OWNER SHOWING LEGAL DISPOSAL OF LAMPS, BALLASTS AND BATTERIES. FUTURE HOUSINGS SHALL BE DISPOSED OF AS REQUIRED.
CONTRACTOR SHALL KEEP AND INVENTORY OF EXISTING AND NEW FIXTURES AND ASSIST THE OWNER WITH THE PROPER PAPER WORK AND SUBMISSION OF PAPER WORK TO COMED.
THE FOLLOWING INVENTORY ITEMS SHALL BE PROVIDED FOR EACH FIXTURE TYPE:
FIXTURE TYPE: RECESSED, SURFACE, PENDANT, ETC.
LAMPS: QUANTITY OF EACH TYPE, LAMP TYPE, LAMP VOLTAGE, LAMP WATTAGE.
BALLASTS: QUANTITY OF EACH TYPE, BALLAST TYPE, BALLAST VOLTAGE, BALLAST WATTAGE RATINGS.
BATTERIES: QUANTITY OF EACH TYPE, BATTERY TYPE, BATTERY VOLTAGE, BATTERY CAPACITY.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHT FIXTURE MOUNTING HARDWARE INCLUDING PENDANTS, CANOPIES, TONG HANGERS, FLANGES, SAFETY CHAINS AND UNI-STRUT. WHEN PENDENT MOUNTING CONTINUOUS ROWS OF 4 FOOT FIXTURES, CONTRACTOR SHALL UTILIZE UNI-STRUT. PAINT OUT PENDANTS AND UNI-STRUT TO MATCH LIGHT FIXTURES. WIPE OIL FROM PENDANTS AND UNI-STRUT WITH CHEMICAL CLENER PRIOR TO PAINTING. LIGHT FIXTURES INSTALLED IN A GRID SHALL BE SUPPORTED FROM THE STRUCTURE WITH A MINIMUM OF (4) PENCIL ROD WIRES PER EACH FIXTURE. DO NOT SUPPORT FIXTURE FROM CEILING GRID.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT SHOP DRAWINGS PRIOR TO ORDERING CIRCUIT BREAKERS, DISCONNECT SWITCHES, STARTERS, FUSES, CONDUIT AND WIRING, ETC., ASSOCIATED WITH CONNECTION OF MECHANICAL EQUIPMENT TO ENSURE A COMPLETE WORKING INSTALLATION.
- ALL FINAL CONNECTIONS MADE WITH FLEXIBLE CONDUIT FEEDING MECHANICAL EQUIPMENT SHALL BE LIQUIDTIGHT, FLEXIBLE METAL CONDUIT AND SHALL HAVE GROUNDING WIRE INSTALLED.
- ALL OVERCURRENT PROTECTION AND WIRE SIZING FOR HVAC EQUIPMENT WILL BE COORDINATED BY THE CONTRACTOR WITH DRAWINGS AND MANUFACTURERS RECOMMENDATIONS.
- FOR LOW VOLTAGE THERMOSTATS:
THE CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION BOX AND CONDUIT STUBBED UP TO ABOVE CEILING FOR MECHANICAL CONTRACTORS THERMOSTAT. MOUNT AT 48" TO TOP. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH TEMPERATURE CONTROL CONTRACTOR FOR ALL THERMOSTAT LOCATIONS. FOR EXISTING WALLS WHERE SURFACE MOUNTING IS REQUIRED, CONTRACTOR SHALL UTILIZE METALLIC WIREMOLD RACEWAY. IN EXISTING FINISHED AREAS WHERE NO LAY-IN CEILINGS ARE PRESENT, CONTRACTOR SHALL CONNECT THERMOSTAT TO MECHANICAL DEVICE WITH A CONTINUOUS RACEWAY SYSTEM.
FOR LINE VOLTAGE THERMOSTATS:
THE CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION BOX AND CONTINUOUS CONDUIT SYSTEM TO MECHANICAL UNIT SERVING FOR MECHANICAL CONTRACTORS THERMOSTAT AND WIRING. MOUNT JUNCTION BOX AT 48" TO TOP. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH TEMPERATURE CONTROL CONTRACTOR FOR ALL THERMOSTAT LOCATIONS. FOR EXISTING WALLS WHERE SURFACE MOUNTING IS REQUIRED, CONTRACTOR SHALL UTILIZE METALLIC WIREMOLD RACEWAY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTION OF LINE VOLTAGE THERMOSTAT TO MECHANICAL UNIT SERVING. FURNISH AND INSTALL REQUIRED WIRING. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL REVIEW THE ARCHITECTURAL SPECIFICATIONS/DRAWING DOOR HARDWARE SCHEDULE FOR ALL ELECTRICAL REQUIREMENTS. INCLUDE CONDUIT, WIRING AND DEVICES AS REQUIRED FOR OPERATION OF LISTED DEVICES.
- ELECTRICAL CONTRACTOR SHALL INCLUDE IN THEIR BID, AN ALLOWANCE FOR FURNISHING AND INSTALLING THE FOLLOWING ADDITIONAL DEVICES NOT SHOWN ON DRAWINGS:
(2) DUPLEX RECEPTABLES
(2) DATA JACKS
(1) LIGHT SWITCH
(1) LIGHT FIXTURE - INSTALLATION ONLY
CONTRACTOR SHALL INCLUDE ASSOCIATED BACKBOXES, COVERPLATES, CONDUIT AND WIRING FOR CONNECTION OF ABOVE ITEMS FOR AVERAGE LENGTH OF A 50 FOOT RUN, 150 FOOT RUN FOR DATA AND TELEPHONE JACKS.

GENERAL ELECTRICAL DEMOLITION NOTES:

- NOTES RE. EXISTING CONDITIONS:**
- VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO SUBMITTING PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
 - MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL ELECTRICAL ITEMS AND EQUIPMENT, BOTH NEW AND EXISTING, AS MAY BE REQUIRED BY THESE ALTERATIONS AND ADDITIONS.
 - DISCONNECT AND REMOVE EXISTING ELECTRICAL MATERIALS AND EQUIPMENT AND ALL OTHER ELECTRICAL ITEMS WHICH ARE RENDERED OBSOLETE BY THESE ALTERATIONS AND ADDITIONS. THESE ARE THE PROPERTY OF THE OWNER AND SHALL EITHER BE REMOVED FROM THE SITE OR RETURNED TO THE OWNERS STOCK AT THE DISCRETION OF THE OWNER.
 - DISCONNECT, REMOVE AND RELOCATE EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, AND ALL OTHER ELECTRICAL ITEMS WHICH INTERFERE OR ARE INTERFERED WITH, OBSTRUCT OR ARE OBSTRUCTED BY THESE LOCATIONS AS DIRECTED. RECONNECT SUCH ITEMS IN PROPER OPERATING CONDITION AT NEW LOCATIONS.
 - IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THE EXISTING BUILDING IN ELECTRICAL OPERATION AT ALL TIMES DURING THE ENTIRE CONSTRUCTION PERIOD. IF IT IS ABSOLUTELY NECESSARY TO SHUT DOWN THE FACILITY AT ANY TIME, THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND MAKE ARRANGEMENTS TO DO SO AT THE OWNERS CONVENIENCE. PRIOR NOTICE SHALL BE GIVEN.
 - COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS.
 - ALL CUTTING AND PATCHING AS REQUIRED FOR NEW WORK AND ABANDONED DEVICES TO BE BY THE CONTRACTOR.
 - WHERE EXISTING CONDUITS HAVE BEEN MADE OBSOLETE BY THESE ALTERATIONS AND ADDITIONS AND IT IS IMPRACTICAL TO REMOVE SAME, CONTRACTOR SHALL:
 - CUT CONDUITS OFF AT SLAB OR WALL LINE.
 - CAP ALL OBSOLETE CONDUIT.
 - WHERE THE EXISTING WIRING & CONDUIT SERVING ANY EXISTING ELECTRICAL EQUIPMENT IN AREA OF EXISTING BUILDING NOT BE ALTERED IS INTERFERED WITH, CONTRACTOR SHALL REROUTE AND RECONNECT ALL SUCH CONDUIT & WIRING.
 - THE LIGHTING CONTRACTOR MUST HOLD AN ICC ENERGY EFFICIENCY INSTALLER CERTIFICATION IN ORDER TO PERFORM LIGHTING WORK THAT WILL ALLOW THE OWNER TO OBTAIN COMED ENERGY EFFICIENCY INCENTIVES. **NO EXCEPTIONS**
FOR DEMOLITION OF LIGHT FIXTURES, CONTRACTOR MUST FOLLOW ALL E.P.A. REQUIREMENTS FOR DISPOSAL OF FLUORESCENT LAMPS, BALLASTS AND BATTERIES: HALL LAMPS, BALLASTS AND BATTERIES TO AN E.P.A. APPROVED DISPOSAL SITE. USE D.O.T. APPROVED CONTAINMENT FOR TRANSFER OF LAMPS, BALLASTS AND BATTERIES. PROVIDE PROPER PAPER WORK TO THE OWNER SHOWING LEGAL DISPOSAL OF LAMPS, BALLASTS AND BATTERIES. FUTURE HOUSINGS SHALL BE DISPOSED OF AS REQUIRED.
CONTRACTOR SHALL KEEP AND INVENTORY OF EXISTING AND NEW FIXTURES AND ASSIST THE OWNER WITH THE PROPER PAPER WORK AND SUBMISSION OF PAPER WORK TO COMED.
THE FOLLOWING INVENTORY ITEMS SHALL BE PROVIDED FOR EACH FIXTURE TYPE:
FIXTURE TYPE: RECESSED, SURFACE, PENDANT, ETC.
LAMPS: QUANTITY OF EACH TYPE, LAMP TYPE, LAMP VOLTAGE, LAMP WATTAGE.
BALLASTS: QUANTITY OF EACH TYPE, BALLAST TYPE, BALLAST VOLTAGE, BALLAST WATTAGE RATINGS.
BATTERIES: QUANTITY OF EACH TYPE, BATTERY TYPE, BATTERY VOLTAGE, BATTERY CAPACITY.
- NOTES RE. INSPECTING EXISTING BUILDING:**
- THE CONTRACTORS SHALL VISIT AND INSPECT THE EXISTING BUILDING AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ACTUAL JOB CONDITIONS BEFORE SIGNING CONTRACTS. NO EXTRAS WILL BE ALLOWED FOR WORK WHICH MIGHT HAVE BEEN REASONABLY FORESEEN BY AN INSPECTION OF THESE PREMISES.
 - WHILE THE SIZE AND LOCATION OF NEW WORK AND EQUIPMENT IN THE EXISTING BUILDING HAS BEEN INDICATED ON THE DRAWINGS AS ACCURATELY AS POSSIBLE, CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID EXISTING DUCTS, PIPES, CONDUITS AND BEAMS NOT SHOWN ON PLANS. CONTRACTOR SHALL ADAPT HIS WORK TO MEET ALL ACTUAL CONDITIONS ON THE EXISTING PREMISES.
 - CONTRACTOR SHALL INSPECT THE PREMISES AND MAKE A DETAILED EXAMINATION OF ALL LOCATIONS WHERE NEW WORK IS TO BE INSTALLED AND SHALL EXAMINE EXISTING PIPING, CONDUITS, STRUCTURAL SUPPORTING BEAMS, ETC.
 - CONTRACTOR AFTER INSPECTING THE PREMISES AND THE DRAWINGS SHALL CALL TO THE ATTENTION OF THE ARCHITECT ANY LACK OF ANY NECESSARY SPACE OR CLEARANCE REQUIRED BY THE VARIOUS EQUIPMENT BEFORE CONTRACT IS SIGNED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF HE NEGLECTS TO DO SO.

NOTE:
ALL DEVICES SHOWN DOTTED, DASHED, OR INDICATED WITH A PLAN NOTE (INDICATING REMOVAL) ARE EXISTING TO BE REMOVED. ALL DEVICES SHOWN SOLID ARE EXISTING TO REMAIN. IF THE CONTRACTOR DEEMS IT NECESSARY FOR A DEVICE TO BE REMOVED, THEY SHALL COORDINATE IN FIELD WITH THE ARCHITECT/ENGINEER FOR APPROVAL.

(TYPICAL FOR BOTH ENDS OF SLEEVE):
FIRE CAULK ENDS OF CONDUITS ONCE CABLING HAS BEEN INSTALLED.



MINIMUM 3/4" CONDUIT SLEEVE THROUGH WALL PENETRATIONS WITH END BUSHINGS AT BOTH ENDS.

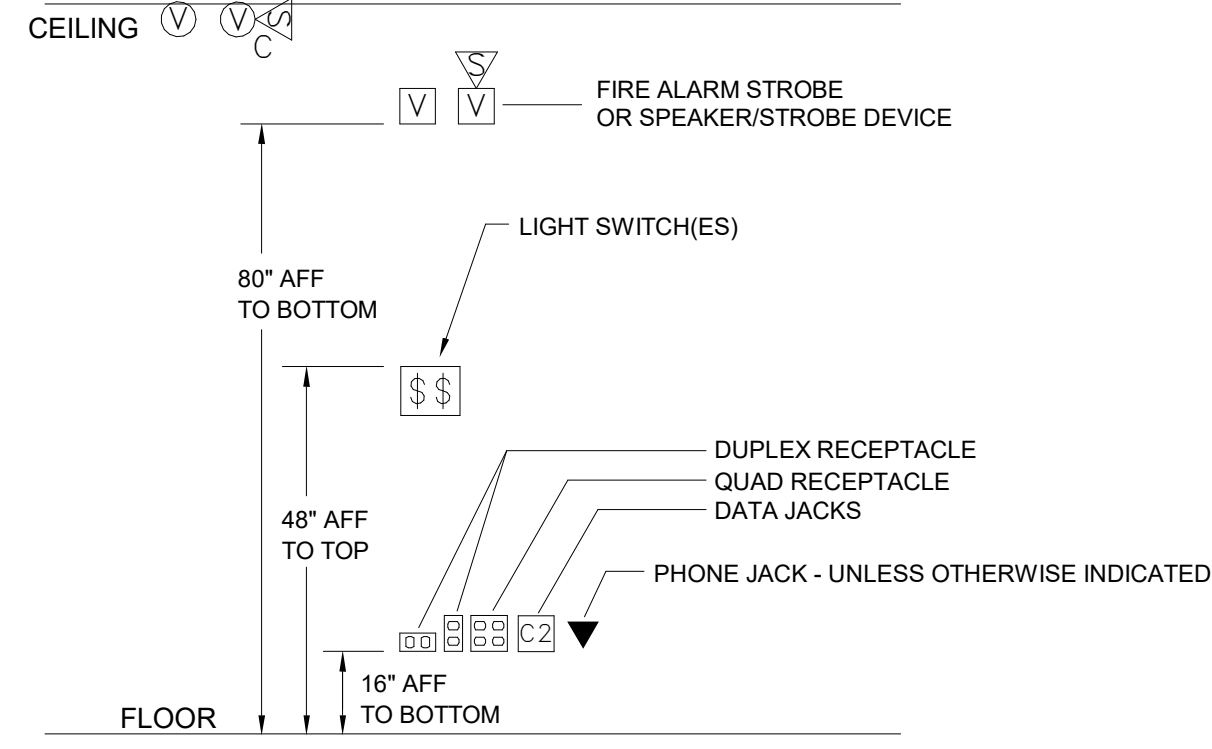
FIRE CAULK ALL PENETRATIONS ON BOTH SIDES. UTILIZE 3M #IC 15WB+ SERIES FIRE BARRIER SEALANT OR OTHER APPROVED MATERIAL TO SEAL PENETRATIONS.

WHERE CABLES ARE SUBJECT TO DAMAGE, STUB RACEWAY UP TO ABOVE CEILING.

WALL/FLOOR PENETRATION DETAIL
NO SCALE

GENERAL ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	JUNCT. BOX & FLEX CONDUIT	C1 C2 C4	DATA OUTLET/JUNCT. BOX AND STUB
	SYSTEMS PANEL	SW	WALL SWITCH
	TRANSFORMER	ES	SINGLE FACE EXIT SIGN
	DUPLEX RECEPTACLE	ES	DOUBLE FACE EXIT SIGN
	QUAD-RECEPTACLE	RS	RECESSED 2 X 4 LIGHT FIXTURE
	SPECIAL RECEPTACLE	SS	SURFACE STRIP LIGHT FIXTURE
	GROUND FAULT INTERRUPTER	ES	EMERGENCY/NIGHT LIGHT
	RECEPTACLE ABOVE COUNTER	OS	OCCUPANCY SENSOR (CEILING)
	ADA DOOR PADDLE	PP	POWER POLE
	EXISTING DEVICE TO REMAIN	VS	FIRE ALARM VISUAL STROBE
	MOUNTED ABOVE COUNTER	VS	WALL MOUNTED SPEAKERS/STROBE DEVICE
	EMERGENCY FIXTURE	VS	CEILING MOUNTED SPEAKERS/STROBE DEVICE
	NIGHT LIGHT FIXTURE	VS	CEILING MOUNTED STROBE DEVICE



- NOTES:**
- ALIGN DEVICES VERTICALLY WHERE POSSIBLE.
 - DEVICE BACK BOXES SHALL MATCH FACEPLATE CONFIGURATION (I.E. SINGLE-GANG, TWO-GANG, ETC.).
 - DEVICE ORIENTATION (HORIZONTAL OR VERTICAL) SHALL BE COORDINATED WITH THE OWNER IN ORDER TO CONFORM TO OWNERS PREFERENCE AND STANDARDS.
 - RECEPTABLES MOUNTED VERTICALLY SHALL HAVE THE GROUND PIN UP UNLESS OTHERWISE DIRECTED BY THE OWNER. RECEPTABLES MOUNTED HORIZONTALLY SHALL HAVE NEUTRAL BLADE UP UNLESS OTHERWISE DIRECTED BY THE OWNER.
 - REFER TO GENERAL ELECTRICAL, FIRE ALARM, INTERCOM/LOCK, SOUND SYSTEM AND TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.

ELECTRICAL DEVICE MOUNTING HEIGHT DETAIL

NO SCALE (UNLESS OTHERWISE INDICATED ON DRAWINGS)

ALL RACEWAYS TO BE CONCEALED INSIDE OF WALLS WHERE POSSIBLE. ALL EXISTING WALLS SHALL BE FISHED WITH FLEXIBLE METAL CONDUIT "FIM" TO CONCEAL WIRING UP TO ABOVE CEILING. DEVICES SHALL BE FLUSH MOUNTED IN ALL NEW AND EXISTING WALLS UNLESS THERE IS A CONDITION THAT DOES NOT ALLOW FOR THIS. COORDINATE WITH ARCHITECT, CUT, PATCH, AND PAINT TO MATCH SURROUNDING AREA. WHERE UNABLE TO FISH WALL, USE METALLIC WIREMOLD RACEWAY SURFACE MOUNTED ON WALL UP TO ABOVE CEILING WHEN APPROVED BY ARCHITECT. COLOR SELECTED BY THE OWNER.

Perkins&Will

410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
312.755.0770
www.perkinswill.com

CONSULTANTS

MEP
MECHANICAL SERVICES ASSOC. CORP.
11 S. VIRGINIA STREET
CRYSTAL LAKE, IL 60014

PROJECT
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RENOVATIONS

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016



ISSUED FOR BID 23 SEPTEMBER 24

KEY PLAN

ISSUE CHART

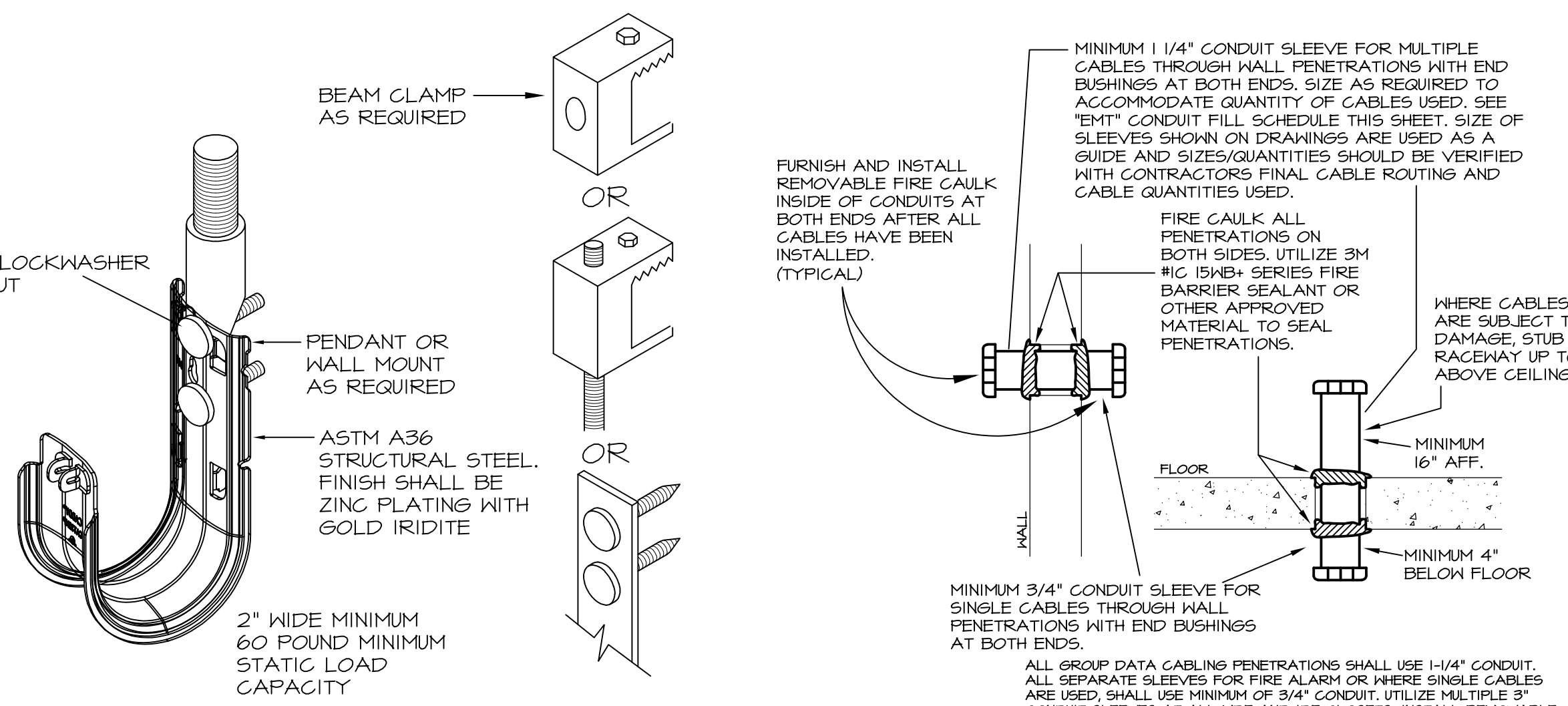
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TITLE		

GENERAL ELECTRICAL
NOTES

SHEET NUMBER

E61-01

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USE MULTIPLE TIERS FOR SEPARATION OF SYSTEMS. (PAGING, VIDEO, PHONE, DATA, ETC.)

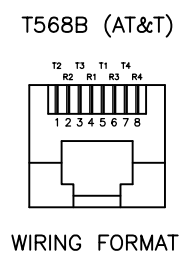
CADDY #CAT HP SERIES J-HOOK DETAIL

NO SCALE FOR INSTALLATION ABOVE CEILINGS

WALL/FLOOR PENETRATION DETAIL

NO SCALE

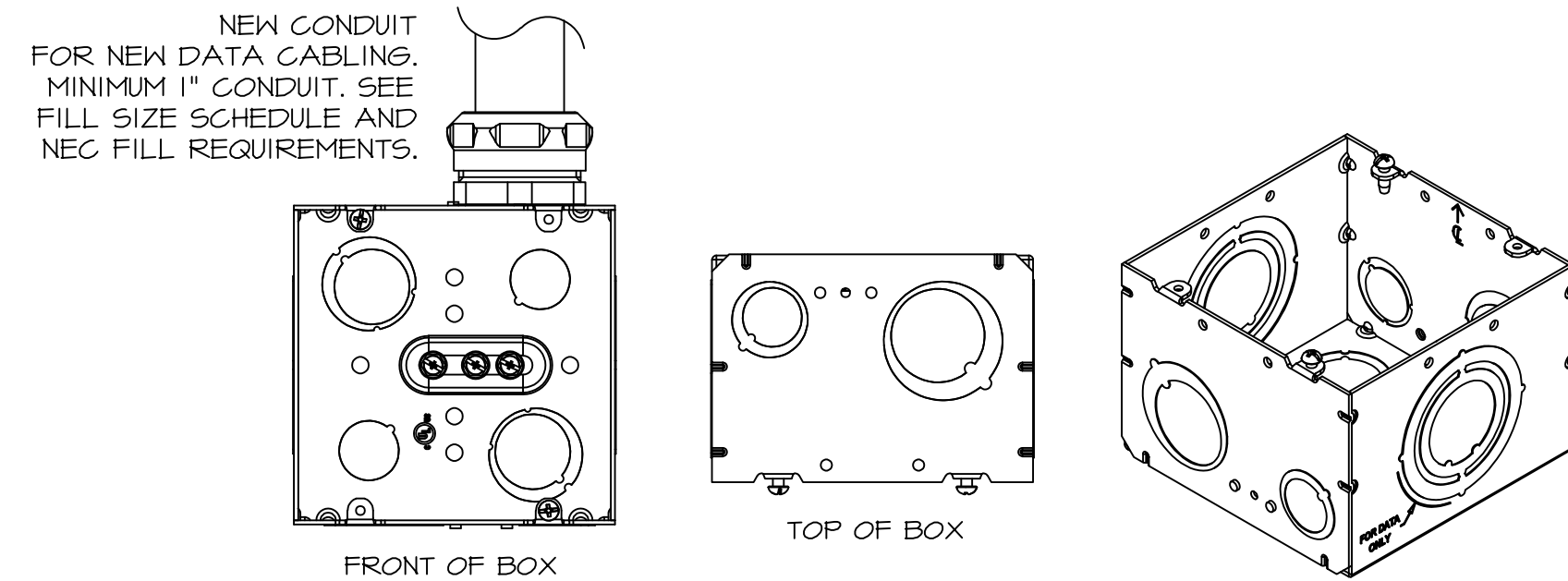
COLOR	CATALOG # T568B WIRING	CONDITION
DATA - WHITE	MS400-262	GENERAL NETWORK PORT
DATA - GREEN	MS400-262	HOBASSET VIDEO OVER IP
DATA - PURPLE	MS400-262	WEBCAM OVER IP



- NOTES:
- MS400 JACKS ARE UL (#E129878 AND CSA (#LR80837) LISTED.
 - JACK CONTACTS ARE BERYLLIUM COPPER AND NICKEL PLATED.
 - MODULAR JACKS MEET OR EXCEED FCC PART 68.5.
 - JACK HOUSINGS ARE MADE OF HIGH IMPACT, 94 V-0 RATED THERMOPLASTIC.
 - 110 CONTACTS ARE TIN LEAD PLATED IDC.
 - COMPATIBLE WIRE SIZES: 22-28 AWG AND A MAX. INSULATION SIZE OF .020 INCH. SEE ABOVE FOR WIRING FORMATS.
 - FOR MORE INFORMATION CONTACT YOUR CUSTOMER SERVICE REPRESENTATIVE.

8 POSITION CATEGORY 6 - COMMSCOPE SYSTIMAX MGS400 SERIES MODULAR JACKS

NO SCALE (USE FOR WORKSTATION JACKS)

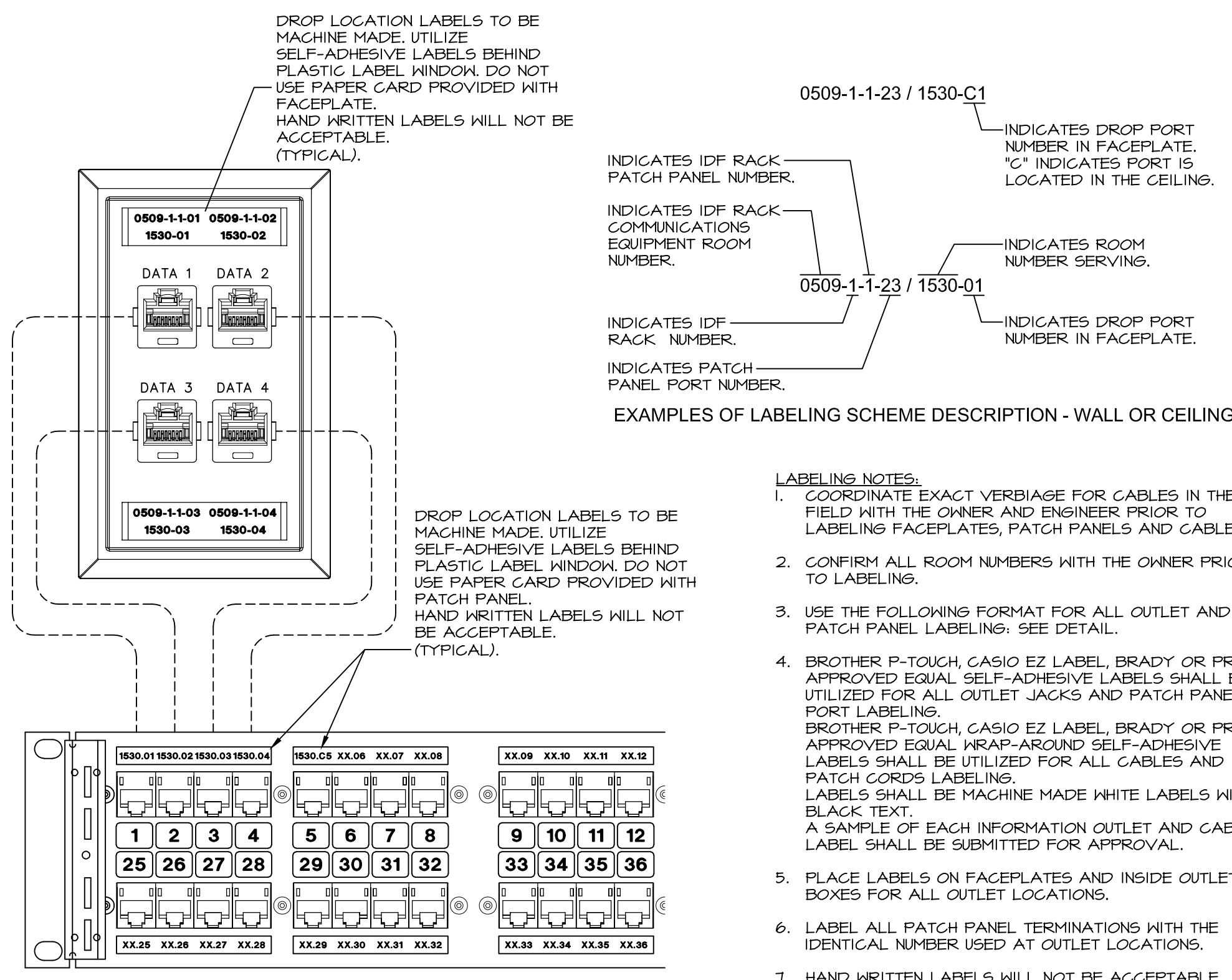


HUBBELL #HBL260 SERIES LARGE CAPACITY WALL BOX WITH 2-GANG MUD RING. INSTALL NEW COVERPLATE (WITH LABEL FIELD). LABEL ALL CABLES AND INSTALL NEW IDC LABELS.

HUBBELL LARGE CAPACITY WALL BOXES

NO SCALE

LOW VOLTAGE CONTRACTOR TO COORDINATE BOXES AND ORIENTATION WITH THE ELECTRICAL CONTRACTOR SO AS TO HAVE USE OF APPROPRIATE SIZE KNOCK-OUT. VERIFY WALL CONSTRUCTION DEPTHS BEFORE ORDERING DEEP BACK BOXES.



DATA JACK AND PATCH PANEL LABELING DETAIL

NO SCALE

NETWORK CABLE SCHEDULE

CABLE TYPE	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
CAT-6 DATA CABLE FOR WORKSTATIONS	COMMSCOPE	207IE SERIES	CAT 6 NETWORK CABLE GIGASPEED XL PLENUM RATED 4-PAIR, #23 AWG UTP	COLOR - WHITE SEE DATA NOTES
CAT-6 DATA CABLE FOR WAYS	COMMSCOPE	207IE SERIES	CAT 6 NETWORK CABLE GIGASPEED XL PLENUM RATED 4-PAIR, #23 AWG UTP	COLOR - WHITE SEE DATA NOTES

CONTRACTOR SHALL FURNISH AND INSTALL CABLES AND CONNECTORS AS SPECIFIED TO INTERCONNECT ALL AS NOTED ON DRAWINGS AND RISER DETAILS. DETERMINE ALL REQUIRED LENGTHS OF CABLES IN FIELD PRIOR TO ORDERING. UPON COMPLETION OF WORK, CONTRACTOR SHALL TEST AND CERTIFY EACH CONNECTION FOR PROPER OPERATION.

WIRELESS ACCESS POINT "WAP" DEVICE SCHEDULE

(FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR)

DEVICE	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
WAP			CEILING MOUNTED WIRELESS ACCESS POINT FURNISHED BY THE OWNER.	WAP DEVICES, CEILING MOUNTING BRACKETS AND PATCH CORDS TO BE FURNISHED BY THE OWNER. CONTRACTOR SHALL INSTALL 1/2" DATA AT EACH WAP LOCATION ABOVE CEILING.

"EMT" CONDUIT FILL GUIDE

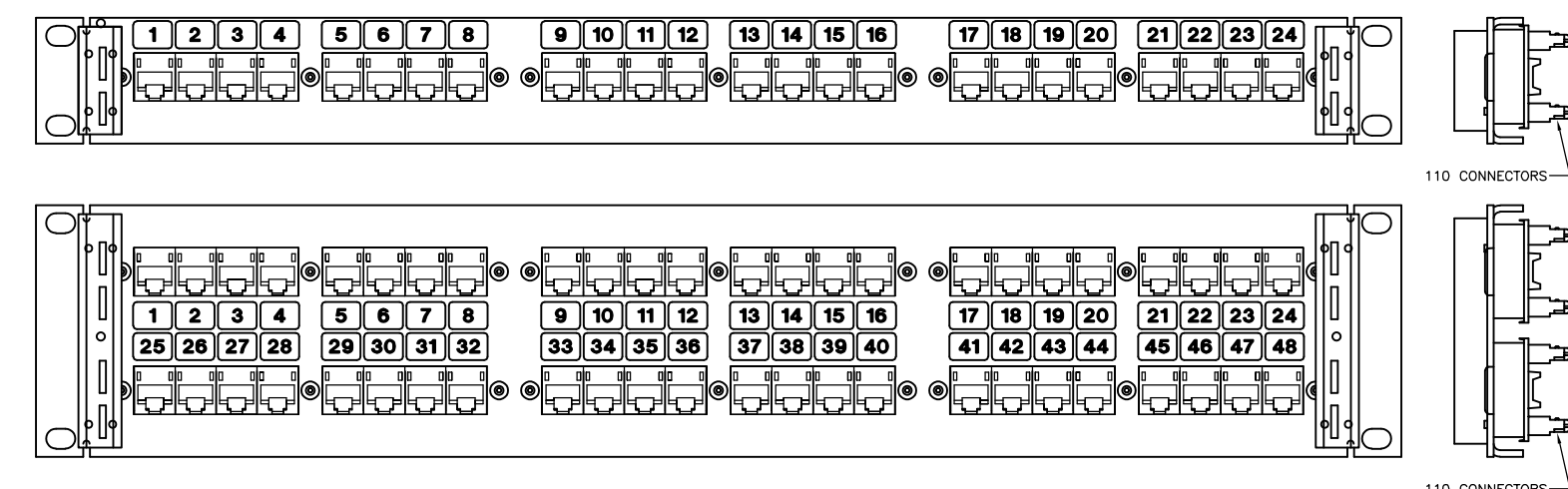
CONTRACTOR TO VERIFY ALL INFORMATION WITH ACTUAL NEC REQUIREMENTS AND FINAL CABLE TYPE SELECTED.

PLENUM CABLE	TYPE	O.D.	NO. OF CABLES AT 40% CONDUIT FILL BASED ON "EMT" TRADE SIZE OF THE CONDUIT (INCHES)							
			1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"
CATEGORY 6 GIGASPEED XL	4pr UTP	0.226	6	4	14	24	30	59	75	40
CATEGORY 6 GIGASPEED X100 SHIELDED	4pr UTP	0.276	4	7	10	10	20	41	56	73

CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT SLEEVES THROUGH ALL WALLS ABOVE CEILING FOR CABLING ACCESS. SIZE AS REQUIRED PER FILL TABLE ABOVE AND PROVIDE ADDITIONAL 50% SPARE CAPACITY FOR FUTURE GROWTH. SLEEVES IN MDF/DF ROOMS SHALL BE MINIMUM OF 3 1/2" IN SIZE. ALL SLEEVES SHALL BE EQUIPPED WITH END BUSHINGS/FITTINGS TO PROTECT CABLING. FIREPROOF ALL SLEEVES/WALL PENETRATIONS WHEN COMPLETE. MINIMUM CONDUIT SIZE IS 1".

DATA CABLE & DATA JACK NOTES:

- CABLES: REFER TO "CABLE SCHEDULE" FOR DATA CABLE INFORMATION.
- ALL DATA CABLES TO BE RUN BACK TO LOCAL AREA RACK (REFER TO RISER DIAGRAM). MAINTAIN A MINIMUM CLEARANCE OF 5' AWAY FROM LIGHT FIXTURES (REFER TO RISER DIAGRAM).
- JACKS: DATA JACKS TO BE COMMSCOPE/SYSTIMAX MGS400 SERIES CAT-6 RJ45 MODULAR JACK WITH 110 TERMINATION. COLOR TO BE WHITE. SEE SCHEDULE FOR ADDITIONAL COLOR OPTIONS FOR HORIZONTAL AND MODULAR COVER-UP CONNECTIONS. FINAL COLOR SELECTIONS SHALL BE COORDINATED WITH THE OWNER AND THEIR REQUIREMENTS. INSTALL DATA JACKS IN ALL COVER PLATES AND MODULAR PATCH PANELS AS INDICATED ON DRAWINGS AND DETAILS.
- FACE PLATES: REFER TO FACE PLATE DETAILS FOR FACE PLATE INFORMATION. PROVIDE EQUAL AMOUNTS OF BLUE ICONS TO SATISFY AMOUNT OF JACKS.
- EXISTING "MDF/DF" RACK: FURNISH AND INSTALL ENOUGH PATCH PANELS TO COVER ALL CABLING AND HAVE A MINIMUM OF (5) SPARE PORTS. PATCH PANELS SHALL BE CAT-6, 110, 48 PORT PATCH PANEL. COMMSCOPE/SYSTIMAX #M603-24 WITH EQUAL AMOUNTS OF BLUE/YELLOW ICONS AS AMOUNT OF PORTS AVAILABLE. FURNISH AND INSTALL CABLE MANAGEMENT PANELS ABOVE AND BELOW EACH PATCH PANEL. TERMINATE ALL DATA CABLES ON PATCH PANELS. PROVIDE LABELING KITS TO OWNER UPON COMPLETION OF WORK. PROVIDE CLEAR DUST COVER ON ALL JACKS. UTILIZE 1/4" VELCRO STRAPS AS REQUIRED FOR PATCH PANEL CABLE MANAGEMENT.
- PATCH CORDS: ALL PATCH CORDS ARE TO BE PROVIDED BY THE OWNER UNLESS OTHERWISE SPECIFIED.
- RUN ALL CABLE ABOVE CEILING THROUGH CADDY CABLECAT ORIGINAL J-HOOKS (NO MORE THAN 4'-0" SPACING) SUITABLE FOR CAT-6 CABLING AND CABLE TIES (DO NOT OVER FASTEN). KEEP CABLE SAG WITHIN 4'-12" AND MOUNT AS HIGH AS POSSIBLE/AUDIBLE OTHER SYSTEMS/TRACES. UTILIZE EXISTING CABLE TRAY WHEN AVAILABLE. DO NOT INSTALL CABLING ABOVE TOP CHORD OF BAR JOISTS OR WITHIN 6" OF ROOF DECK TO PREVENT SUPPORT NAIL DAMAGE. DO NOT USE NAILS OR SCREWS FOR SUPPORTING CABLING. DO NOT SUPPORT CABLING FROM CEILING SUPPORT WIRES. DO NOT SUPPORT CABLING FROM OTHER SYSTEMS.
- PROVIDE SPARE RJ45 JACKS TO OWNER UPON COMPLETION OF JOB. REFER TO SPECIFICATIONS FOR QUANTITY.
- ALL SYSTEMS SHALL MEET OR EXCEED COMMSCOPE/SYSTIMAX REQUIREMENTS. STATE OR LOCAL CODES AND ORDINANCES AND UL STANDARDS. THE ENTIRE COMMSCOPE/SYSTIMAX SYSTEM SHALL BE PROVIDED WITH A 20 YEAR WARRANTY AND SYSTEM PERFORMANCE GUARANTEE PROGRAM. ALL LABOR AND MATERIALS SHALL BE PROVIDED AT NO EXPENSES TO THE OWNER. GUARANTEE PERIOD SHALL BEGIN ON THE DAY OF ACCEPTANCE BY THE OWNER/ENGINEER.
- INSTALLER SHALL BE A COMMSCOPE/SYSTIMAX CERTIFIED COMPETENT INSTALLER IN THE FIELD OF COMPUTER DATA WIRING INSTALLATION.
- INSTALLER SHALL HAVE A MINIMUM OF THREE YEARS OF EXPERIENCE INSTALLING 1 GIG AND 10 GIG UTP CABLING FOR COMPUTER DATA SYSTEMS.
- THE DATA CABLING CONTRACTOR MUST PROVIDE SHOP DRAWINGS SHOWING THE DESIRED CABLING ROUTES (THROUGH THE BUILDING) TO EACH AREA'S RESPECTIVE MDF/DF RACK TO MEET DISTANCE LIMITATION OF 90 METERS. ROUTINGS SHALL FOLLOW PRIMARY PATHWAYS (I.E. CORRIDORS), SHORTEST DISTANCE POSSIBLE AND BE CONCEALED ABOVE LAY-IN CEILING, ALTERNATE PATHWAYS (SPECIAL CONDITIONS) SHALL BE COORDINATED IN THE SHOP DRAWING STAGE WITH THE ENGINEER. PLEASE NOTE THAT ZONING OF BUILDING IS SHOWN ON THE DRAWINGS IDENTIFYING MDF/DF RACK LOCATION SERVING AREA.
- PROVIDE THREE SETS OF AS-BUILT DRAWINGS INCLUDING COVER SHEET, NOTES AND DETAILS SHEETS INDICATING RECORD CONDITIONING OF EQUIPMENT LOCATION AND CABLING. DRAWINGS TO INCLUDE EACH JACK LOCATION AND ITS TERMINATION RACK/PATCH PANEL INFORMATION.
- PROVIDE ALL NECESSARY WIRING, HARDWARE, ETC., FOR A COMPLETE SYSTEMS INSTALLATION.
- PROVIDE ALL NECESSARY WIRING, AS NOTED ON DRAWINGS. ALL EXPOSED WIRING SHALL BE RUN IN RACEWAY, NO WIRING SHALL BE RUN EXPOSED ON CEILING, FLOORS, OR WALLS UNLESS APPROVED BY OWNER/ENGINEER OR INDICATED OTHERWISE ON DRAWINGS.
- ALL JACKS, PATCH PANELS, WIRES (BOTH ENDS) AND OTHER ACCESSORIES SHALL BE CLEARLY & PERMANENTLY IDENTIFIED AND LABELED. PROVIDE A WIRING LOG BOOK SHOWING ALL TERMINATION AND WIRING CORRESPONDING TO EACH ROOM. COORDINATE WITH OWNER.
- CONDUCT LINK TESTS: 4 INSPECTIONS AFTER INSTALLATION HAS BEEN COMPLETED TO ASSURE THE OWNER'S REQUIREMENTS FOR INSTALLATION HAVE BEEN MET (FOLLOW TIA/EIA 568-C STANDARDS). UPON REQUEST, PRIOR TO OWNER'S ACCEPTANCE, ALLOW ACCESS BY THE OWNER TO TEST THE EQUIPMENT AND WIRING SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING DOCUMENTATION CHECKLISTS PROVIDED BY THE OWNER. PROVIDE FINAL AS-BUILT DRAWINGS TO THE OWNER IN HARD COPY AND ELECTRONIC AUTOCAD AND PDF FORMATS. ALL DATA/VOICE JACK LOCATIONS SHALL HAVE THEIR RACK AND PORT INFORMATION SHOWN ON AS-BUILTS. ALL WAPS ON AS-BUILTS. ALL WAPS ON AS-BUILTS. ALL WAPS AND PATCH CORDS SHALL HAVE THEIR RACK/PORT INFORMATION SHOWN AS WELL AS SERIAL NUMBER SHOWN FOR TRACKING PURPOSES. INCLUDE WAP SERIAL NUMBER, MAC ADDRESS, RACK, PATCH PANEL AND PORT INFORMATION.
- ALL LABOR AND MATERIALS SHALL BE PROVIDED TO THE OWNER. GUARANTEE PERIOD SHALL BEGIN ON THE DAY OF ACCEPTANCE BY THE OWNER/ENGINEER.
- CONTRACTOR SHALL CORE WALLS AS REQUIRED FOR INSTALLATION OF DATA CABLING. VERIFY ALL LOCATIONS OF CORES WITH OWNER/ENGINEER IN FIELD. ALL CORES SHALL BE SLEEVED WITH CONDUIT & FIRE PROOFED AS REQUIRED. FIELD VERIFY ALL EQUIPMENT & PIPING LOCATIONS BEFORE MAKING CORES. UNDER NO CIRCUMSTANCES WILL ANY STRUCTURAL MEMBER BE CUT IN THIS PROCESS. CONTRACTOR SHALL SIZE SLEEVES PER NEC 40% FILL REQUIREMENTS. ALL SLEEVES SHALL HAVE 50% SPARE CAPACITY FOR FUTURE CABLES. SIZE AS REQUIRED. FURNISH AND INSTALL FITTINGS AND END BUSHINGS AT ENDS OF SLEEVES IN ORDER TO PROTECT CABLING. WHERE WALLS DO NOT EXTEND ALL THE WAY UP TO THE DECK, THE CONTRACTOR WILL CONTINUE TO INSTALL CABLING CONDUIT SLEEVES AT THOSE LOCATIONS FOR FUTURE WALL EXTENDING.
- ALL CEILING SHALL BE REMOVED, REINSTALLED AND/OR REPLACED BY CONTRACTOR FOR INSTALLATION OF NEW CABLING. REPLACE ALL DAMAGED TILES WITH TILE/STYLE TO MATCH EXISTING. ALL CEILING MUST BE PROFESSIONALLY RESTORED.
- INSTALLATION PRACTICES: STRIP BACK ONLY AS MUCH CABLE JACKET AS IS REQUIRED FOR TERMINATION AND MAINTAIN PAIR TWISTS AS CLOSE AS POSSIBLE TO THE POINT OF MECHANICAL TERMINATION. AT A MINIMUM, NEVER ALLOW UNTWISTING OF PAIRS TO EXCEED 0.5" MAXIMUM. MAINTAIN A MAXIMUM BEND RADIUS OF 4X THE CABLE DIAMETER (4-PAIR CABLES), 6X IF IN CONDUIT. APPLY CABLE TIES LOGICALLY AND AT RANDOM INTERVALS. TRY TO MINIMIZE THE AMOUNT OF JACKET TWISTING. AVOID STRETCHING THE CABLE. USE APPROPRIATE METHODS FOR DRESSING AND SECURING CABLES (I.E. CABLE TIES, WIRE MANAGEMENT PANELS, CABLE SUPPORT BAR, RESEALABLE VELCRO STRAPS).
- NEVER EXCEED A 90 DEGREE BEND. MINIMUM BEND RADIUS OF 4X CABLE O.D. REQUIRED. DO NOT OVER TIGHTEN CABLE TIES. DO NOT USE THESE CABLE (IT CAN LEAD TO TORN JACKETS). DO NOT EXCEED 25 lbs. OF PULLING TENSION. DO NOT USE STAPLE GUNS TO POSITION OR FASTEN CABLES.
- WHEN STORING SLACK IN CABLES AS A SERVICE LOOP, STORE IN A FIGURE EIGHT PATTERN TO REDUCE EMI COUPLING.
- COORDINATE ALL FINAL "WAP" LOCATIONS IN THE FIELD WITH OWNER AND ENGINEER PRIOR TO ROUGH-IN. ALL WAP LOCATIONS SHALL BE NOTED ON AS-BUILTS. INCLUDE WAP SERIAL NUMBER, MAC ADDRESS, RACK, PATCH PANEL AND PORT INFORMATION.
- INSPECTION OF EXISTING SYSTEM: THE CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTING THE EXISTING NETWORK SYSTEMS THAT WILL BE WORKED ON (DURING THE COURSE OF THE CONSTRUCTION PROJECT) BEFORE TOUCHING. THIS INSPECTION WILL NEED TO DOCUMENT ANY ISSUES WITH THE EXISTING SYSTEM THAT ARE AFFECTING THEIR PROPER OPERATION. IF THIS REPORT IS NOT PROVIDED, THE CONTRACTOR IS ATTESTING THAT ALL SYSTEMS WERE FUNCTIONAL AND PROPERLY OPERATING BEFORE THE START OF THE CONSTRUCTION AND WILL BE RESPONSIBLE FOR ALL REPAIRS. THE ONLY IS ON THE CONTRACTOR TO IDENTIFY PROBLEMS WITH ANY OF THE SYSTEMS TO THE OWNER PRIOR TO CONSTRUCTION.

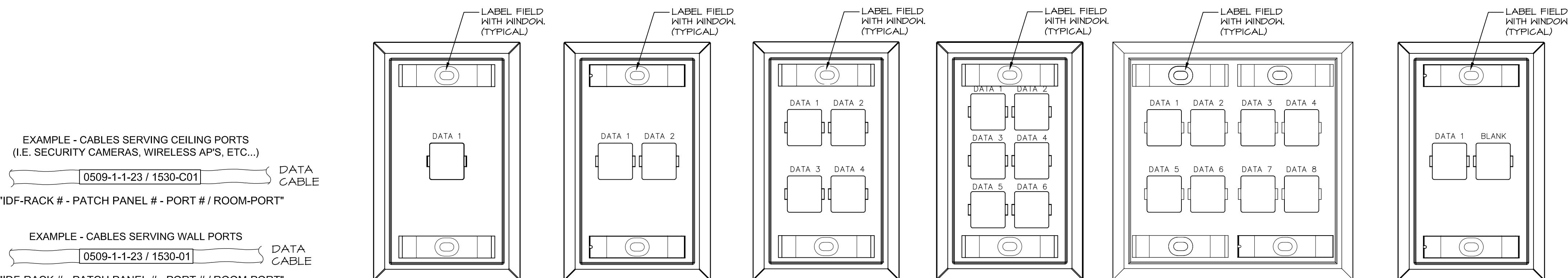


- NOTES:
- PANEL ASSEMBLIES ARE INDIVIDUALLY BOXED WITH MOUNTING SCREWS. CABLE TIES, MANAGEMENT BARS, AND INSTRUCTION SHEETS. STUFFER CAPS CAN BE ORDERED SEPARATELY.
 - PANELS ARE GRAY ANODIZED ALUMINUM. FITS INDUSTRY STANDARD 19" RACKS. EXTENSIONS TO FIT LARGER RACK SIZES ARE AVAILABLE.
 - ADAPTERS EXCEED TIA/EIA-568-B CAT. 6 MINIMUM PERFORMANCE LEVELS AND ARE UL CERTIFIED.
 - TERMINATION TOOL NUMBER IS IPT1108. ANY OTHER INDUSTRY ACCEPTED 110 TERMINATION TOOL MAY BE USED.
 - U.L. #E129878 AND CSA #LR80837.

CATALOG #	T568B WIRING
24 PORT - 360-IPR-1100-E-G53-10-24	
48 PORT - 360-IPR-1100-E-G53-20-48	

COMMSCOPE GigaSPEED XL SERIES CAT. 6 PATCH PANEL

NO SCALE



COORDINATE EXACT VERBIAGE FOR CABLES IN THE FIELD WITH THE OWNER AND ENGINEER PRIOR TO LABELING CABLES.

LABEL CABLE AT EACH END (MDF/DF CLOSET AND ROOM BEING SERVED) WITH THE DEVICE BEING SERVED.

LABELS SHALL BE A WRAP AROUND SELF-ADHESIVE TYPE WHITE LABEL WITH BLACK TEXT TYPICAL TO PANDUIT SELF-ADHESIVE POLYESTER LABELS. TEXT SHALL BE TYPED ONTO LABEL.

HAND-WRITTEN LABELS WILL NOT BE ACCEPTABLE.

CABLE LABEL DETAIL

NO SCALE

- NOTES:
- USE DEEP BOXES TO FIT NEW COMPONENTS.
 - UTILIZE APPROPRIATE SIZE RACEWAY TO FIT CABLING REQUIREMENTS.
 - FOLLOW ALL COMMSCOPE/SYSTIMAX CABLING INSTALLATION REQUIREMENTS.

COMMSCOPE "L" TYPE SERIES FACEPLATES

NO SCALE WITH LABEL FIELD

ALL CABLING TO BE PLENUM RATED.

410 North Michigan Ave.
Suite 1600
Chicago, IL 60611
1312.755.0770
1312.755.0775
www.perkinswill.com

CONSULTANTS

MEP
MECHANICAL SERVICES ASSOC. CORP.
11 S. VIRGINIA STREET
CRISTAL LAKE, IL 60014

PROJECT

ADJACENCIES RENOVATIONS

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016

Oakton College
OAKTON COLLEGE

ISSUED FOR BID 23 SEPTEMBER 24

KEY PLAN

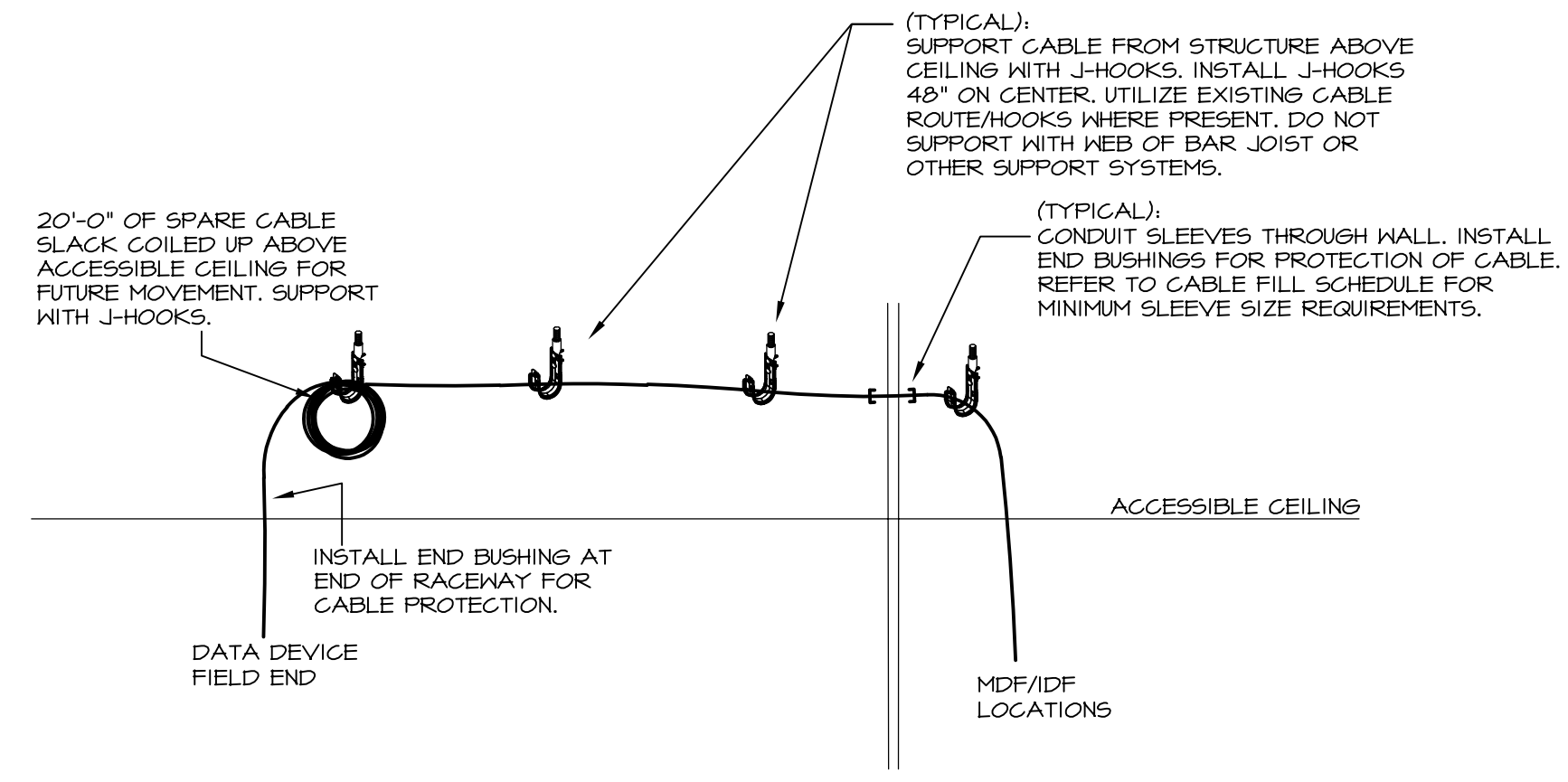
ISSUE CHART

ISSUED FOR BID	23 SEP 24
DATE	DATE
Job Number	021074.000
TITLE	

TECHNOLOGY NOTES AND DETAILS

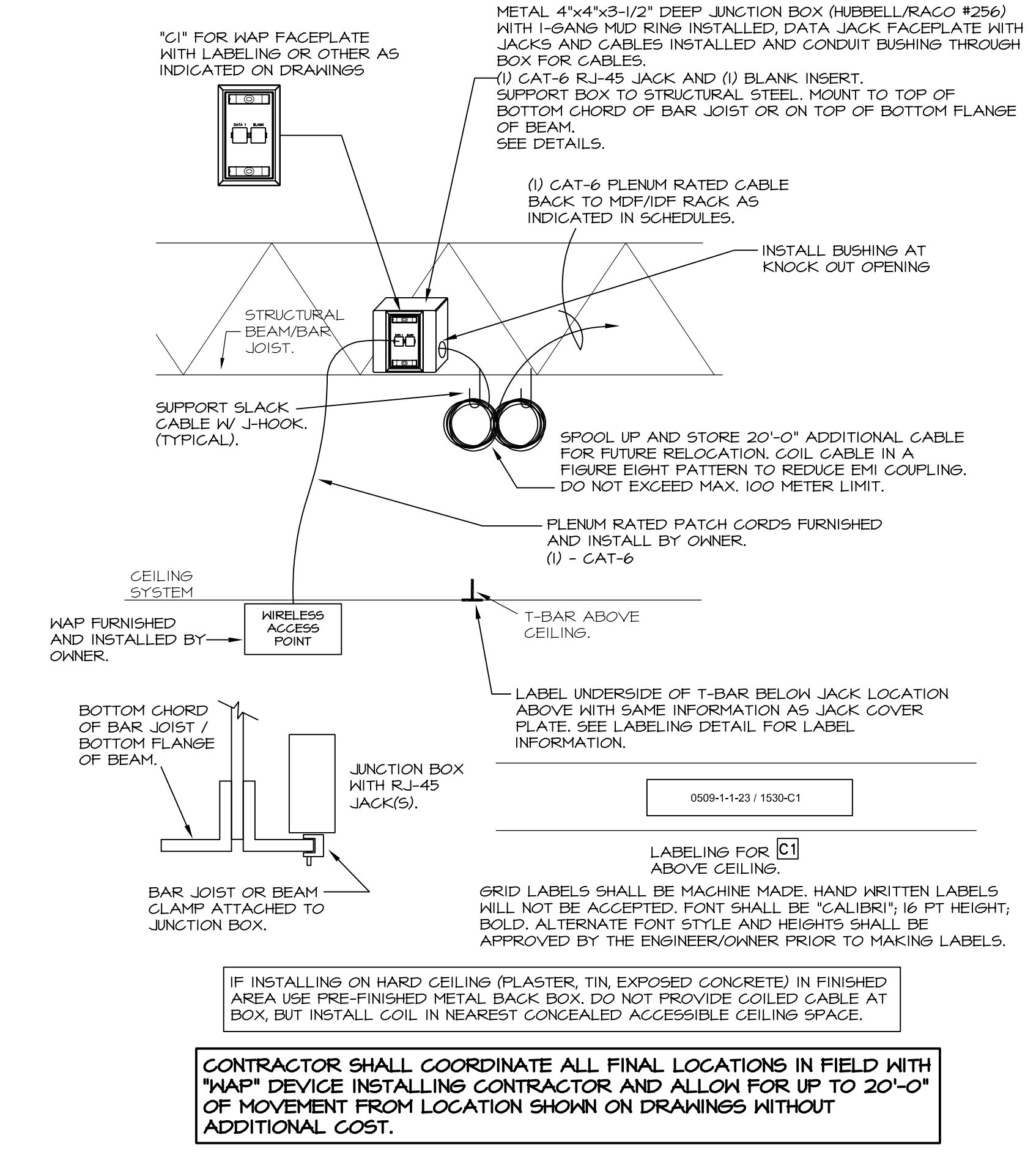
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E71-01



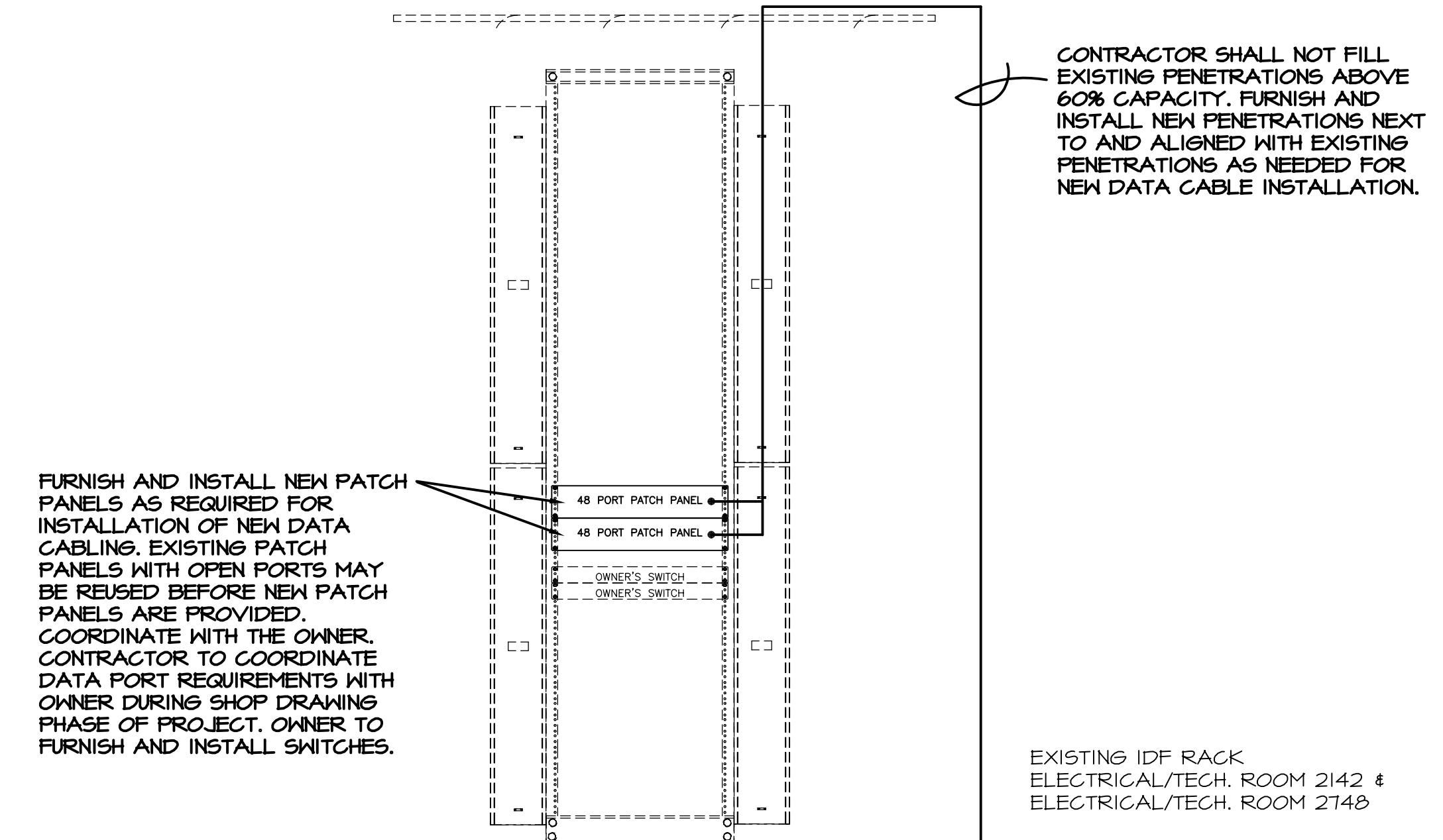
DATA CONNECTION DETAIL SERVICE LOOP
NO SCALE

FOR ABOVE CEILING MOUNTED LOCATIONS ONLY. NO SERVICE LOOP NECESSARY FOR DATA AT WALL MOUNTED LOCATIONS.

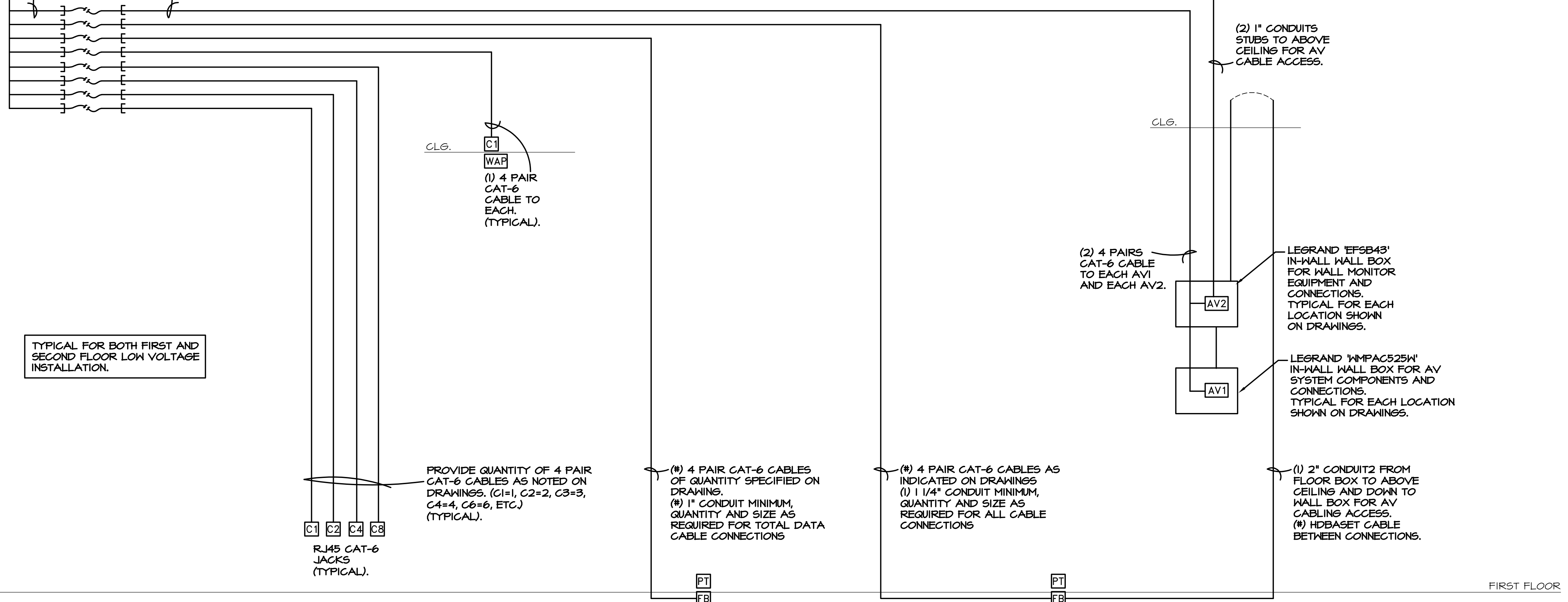


CEILING MOUNTED DATA CONNECTION DETAIL
NO SCALE

FOR LAY-IN CEILING ONLY, NOT TO BE USED IN ROOMS WITH EXPOSED CEILING. SHALL BE USED FOR OWNER FURNISHED AND INSTALLED WAP DEVICES AND CAMERAS.



STUB CONDUIT OUT TO ABOVE ACCESSIBLE CEILING. (TYPICAL). NOTE: CONDUIT SIZES AND QUANTITIES WILL BE LARGER THAN NORMAL DUE TO CAT-6 AND AV CABLING DEMANDS. INCLUDE SERVICE LOOP AT BOTH ENDS, SEE DETAIL.



PARTIAL DATA RACK RISER DIAGRAM
NO SCALE

QUANTITY OF DATA JACKS AND CABLES AS PER INDICATED ON DRAWINGS.

REFER TO DRAWINGS FOR DATA CONNECTIONS QUANTITIES IN FLOOR BOXES AND POKE THRUS.

ALL CABLING TO BE PLENUM RATED.

ISSUED FOR BID 23 SEPTEMBER 24

PROJECT
ADJACENCIES RENOVATIONS

DES PLAINES CAMPUS
1600 EAST GOLF ROAD
DES PLAINES, IL, 60016



KEY PLAN

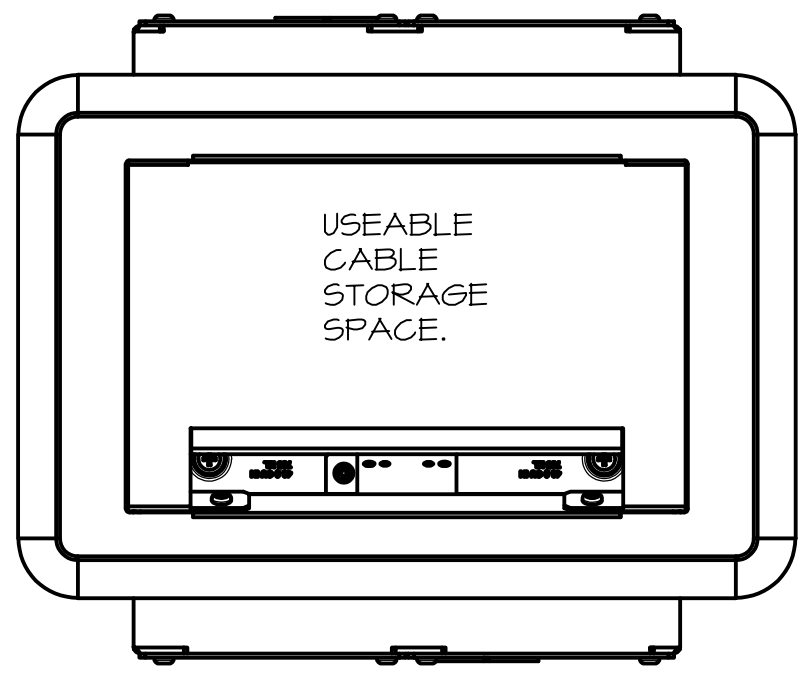
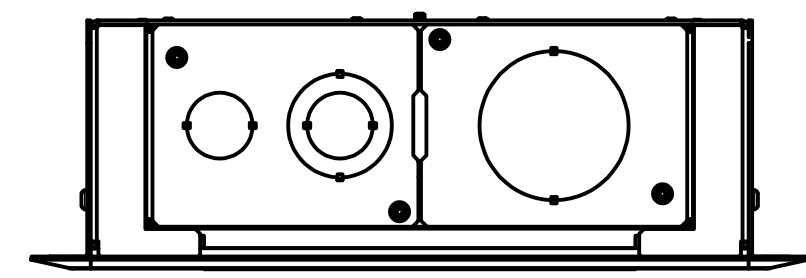
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ISSUE	
Job Number	021074.000
TITLE	

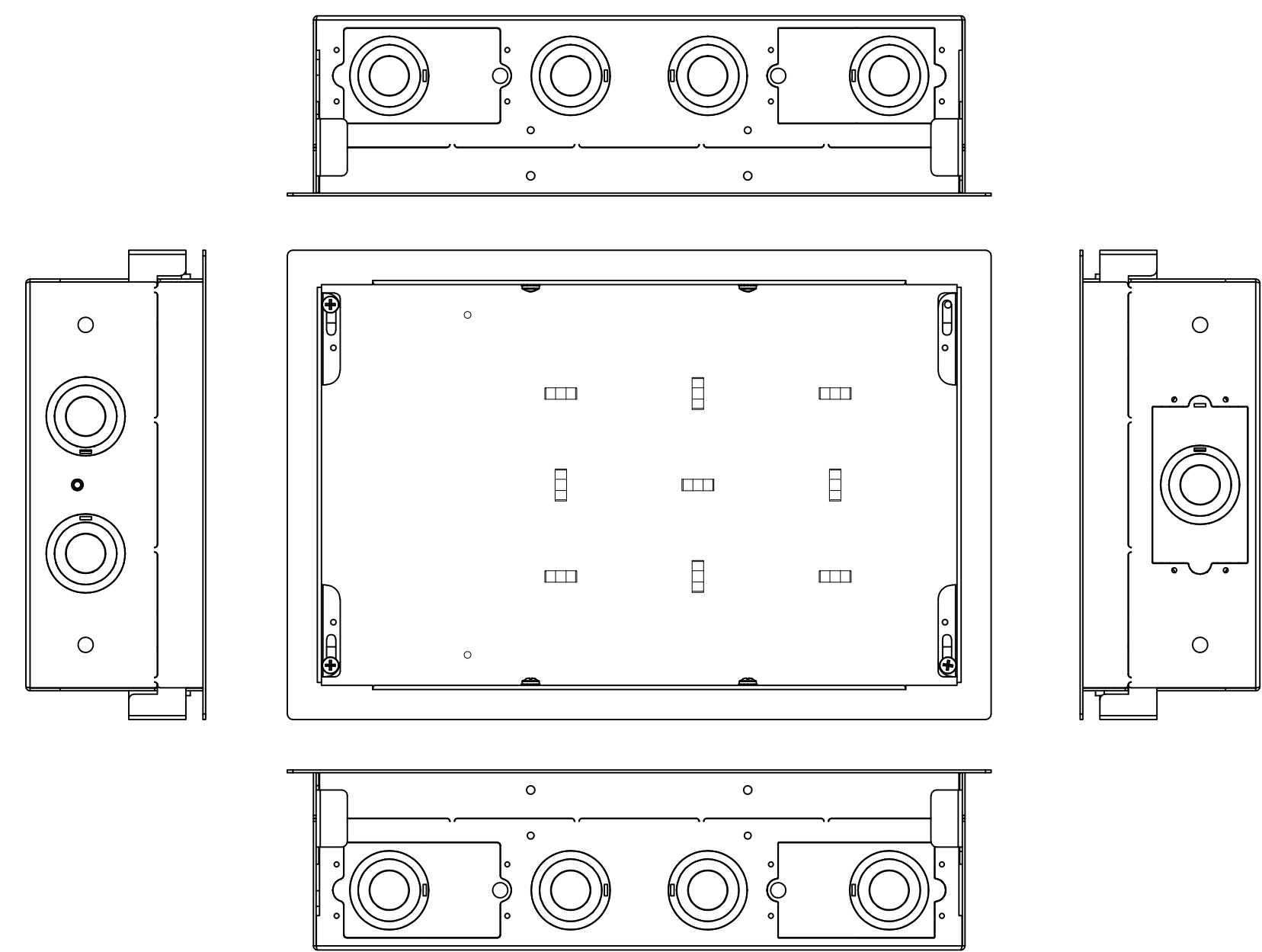
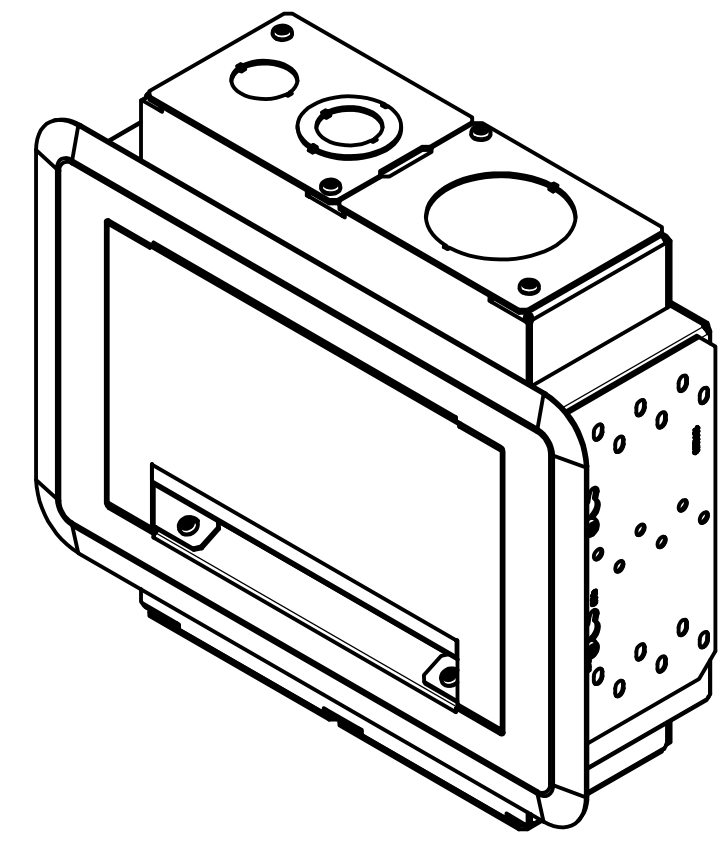
TECHNOLOGY NOTES AND DETAILS

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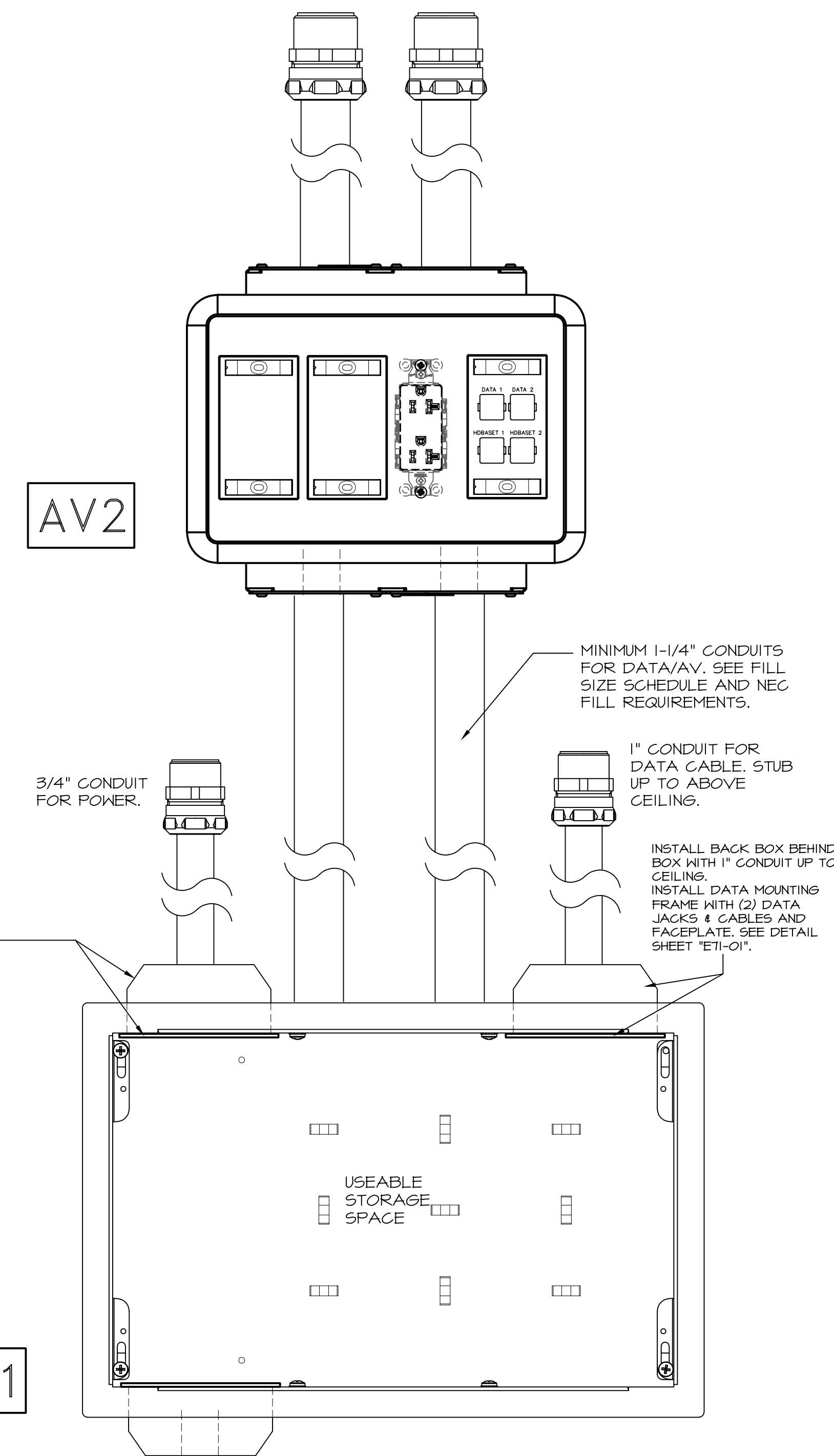
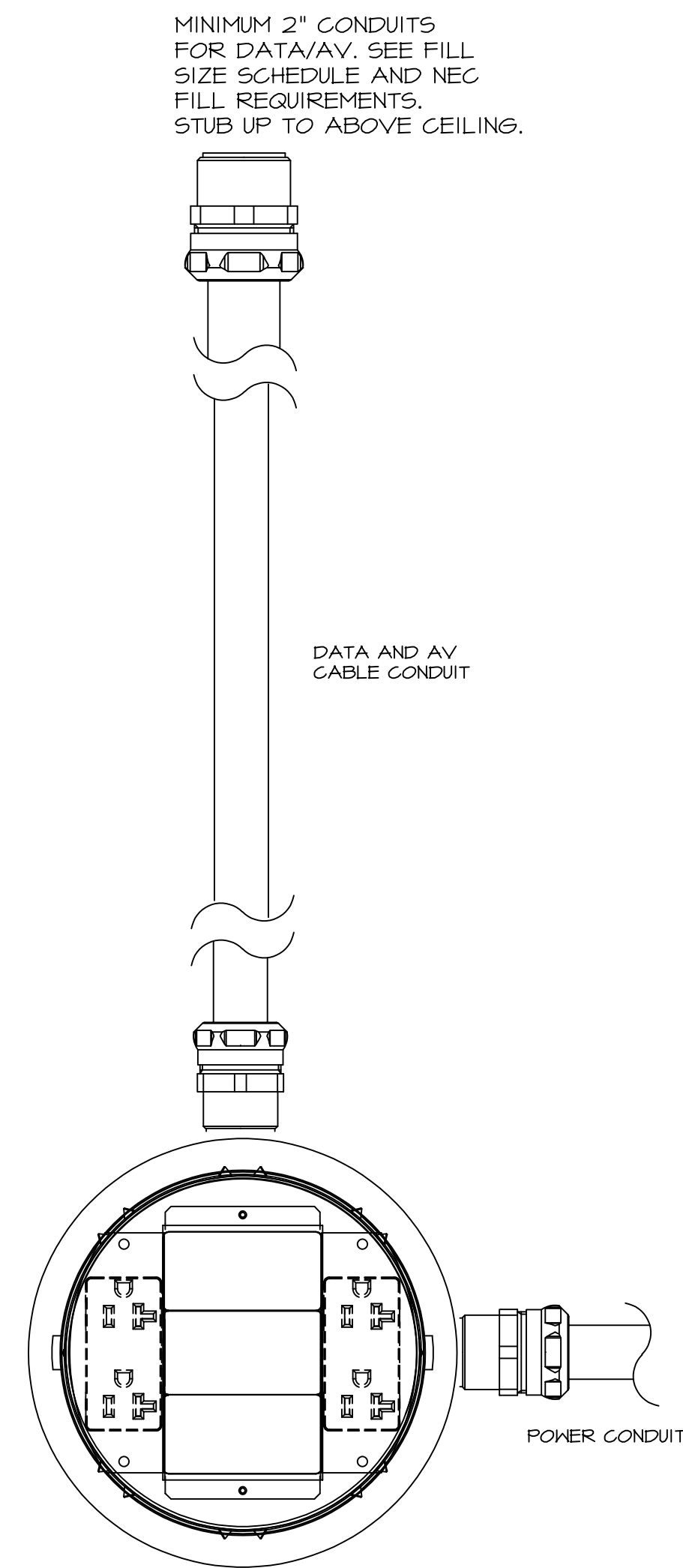
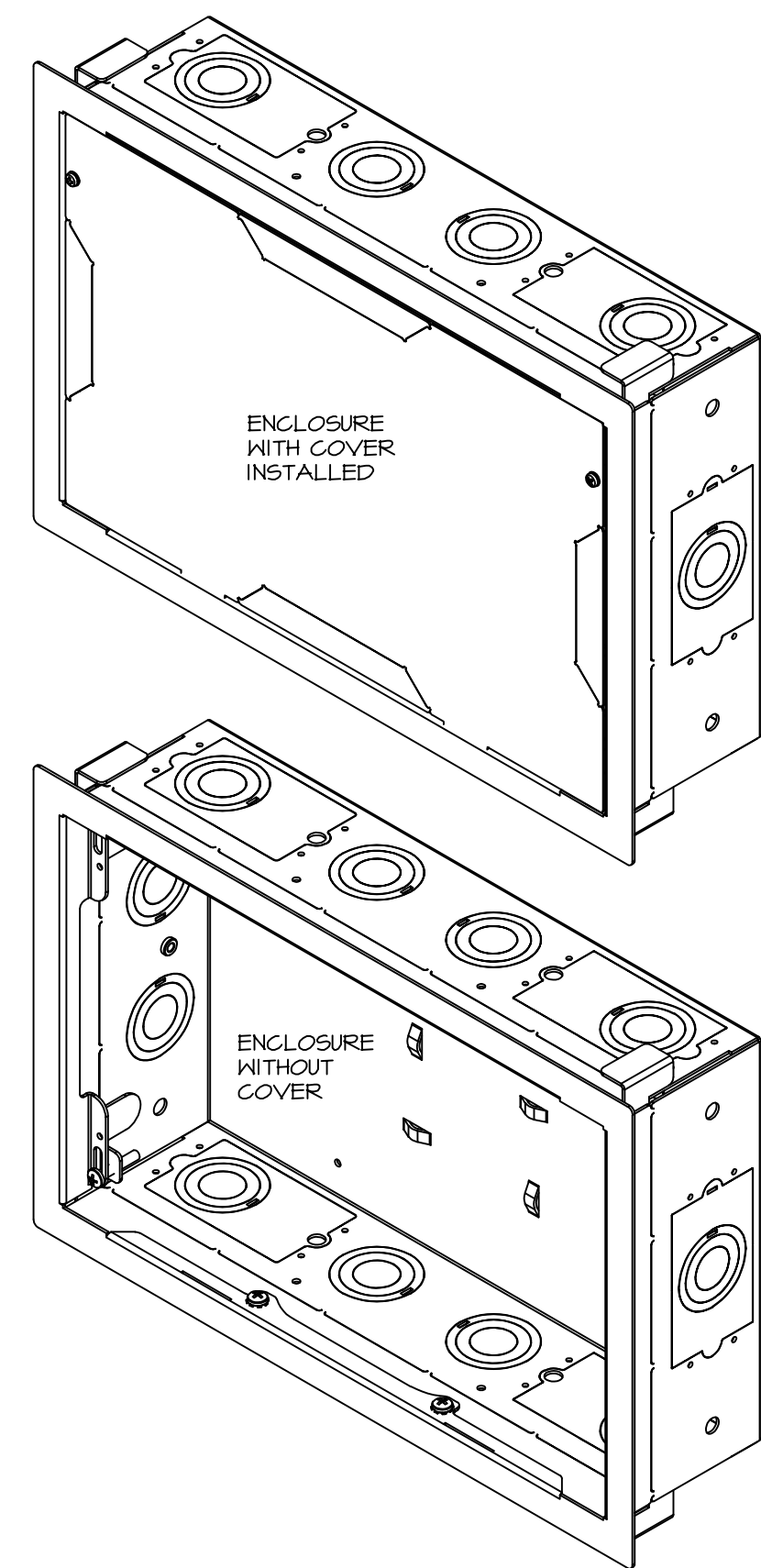
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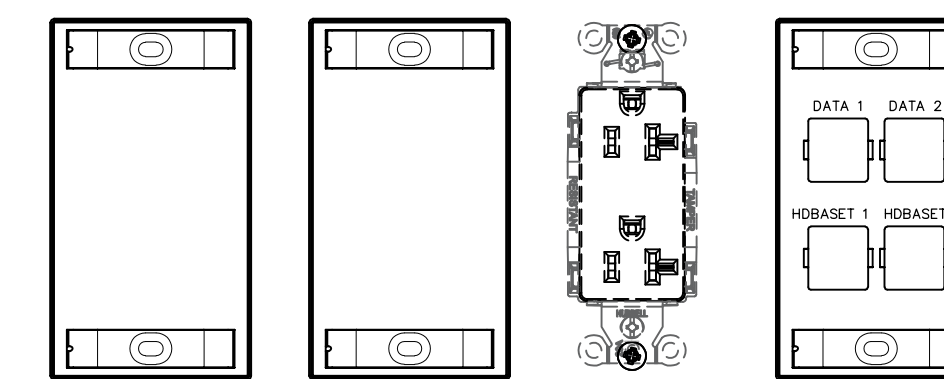
AV2 LEGRAND EVOLUTION EFSB43 IN-WALL STORAGE BOX WITH FLANGE KIT AND COVER KIT. COLOR OF FLANGE AND COVER TO BE WHITE OR AS DIRECTED BY OWNER/ARCHITECT.



AV1 LEGRAND EVOLUTION HMPAC525W IN-WALL STORAGE BOX WITH FLANGE KIT AND COVER KIT. COLOR OF FLANGE AND COVER TO BE WHITE OR AS DIRECTED BY OWNER/ARCHITECT.

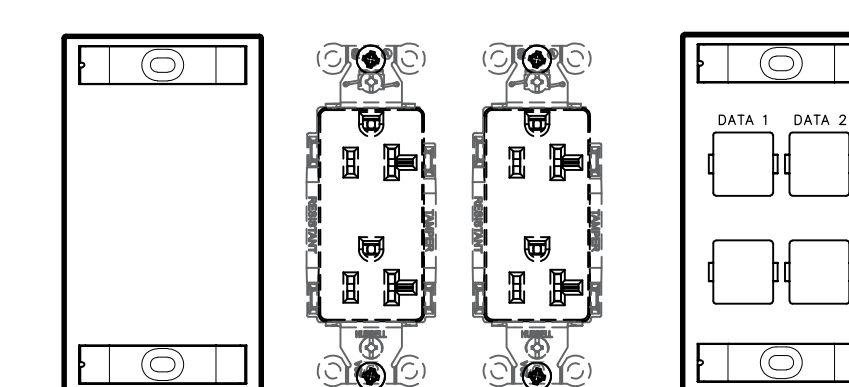


**TYPICAL WALL BOX AND POKE THRU LAYOUT:
LEGRAND IN-WALL 'AV1' STORAGE BOX AND
IN WALL 'AV2' DISPLAY CONNECTION BOXES**
NO SCALE



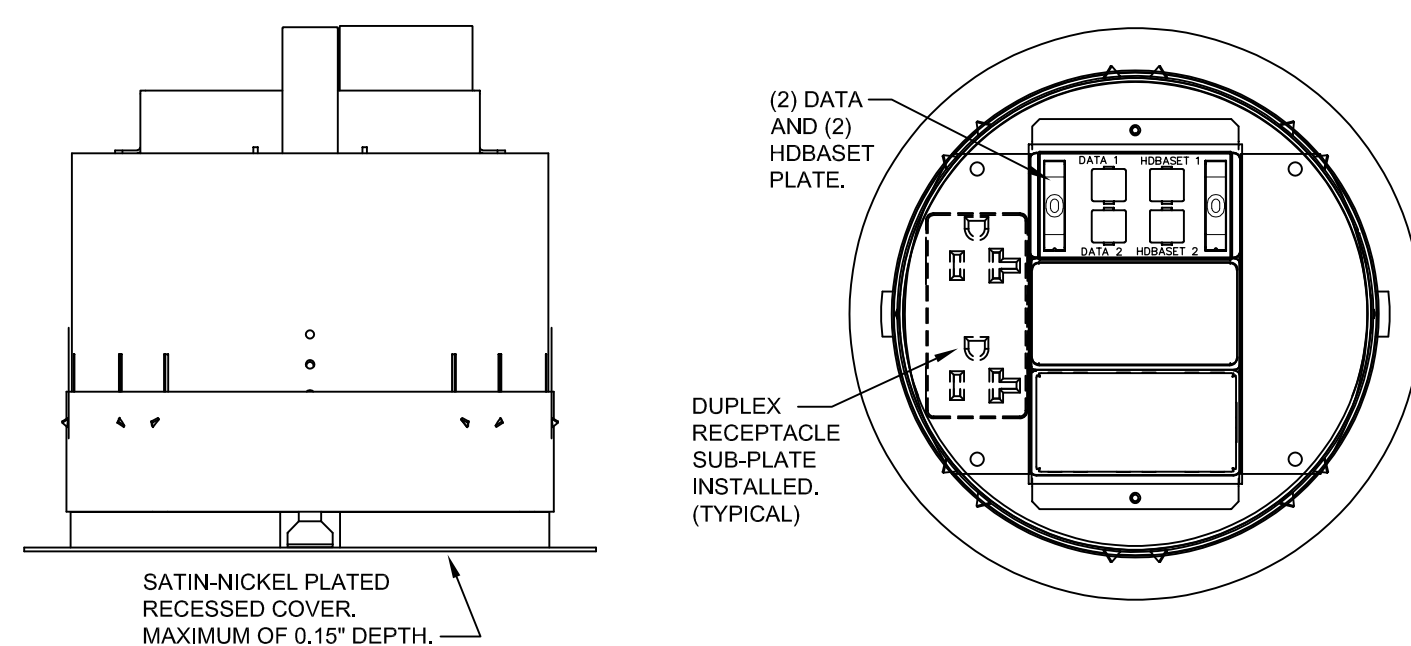
AV2 - POWER RECEPTACLE(S) (REFER TO ELECTRICAL DRAWINGS)
- M2L-262 PLATE WITH H956020 SERIES CAT-6 DATA JACKS
- BLANK COVER PLATES

AV WALL BOX DEVICES
NO SCALE



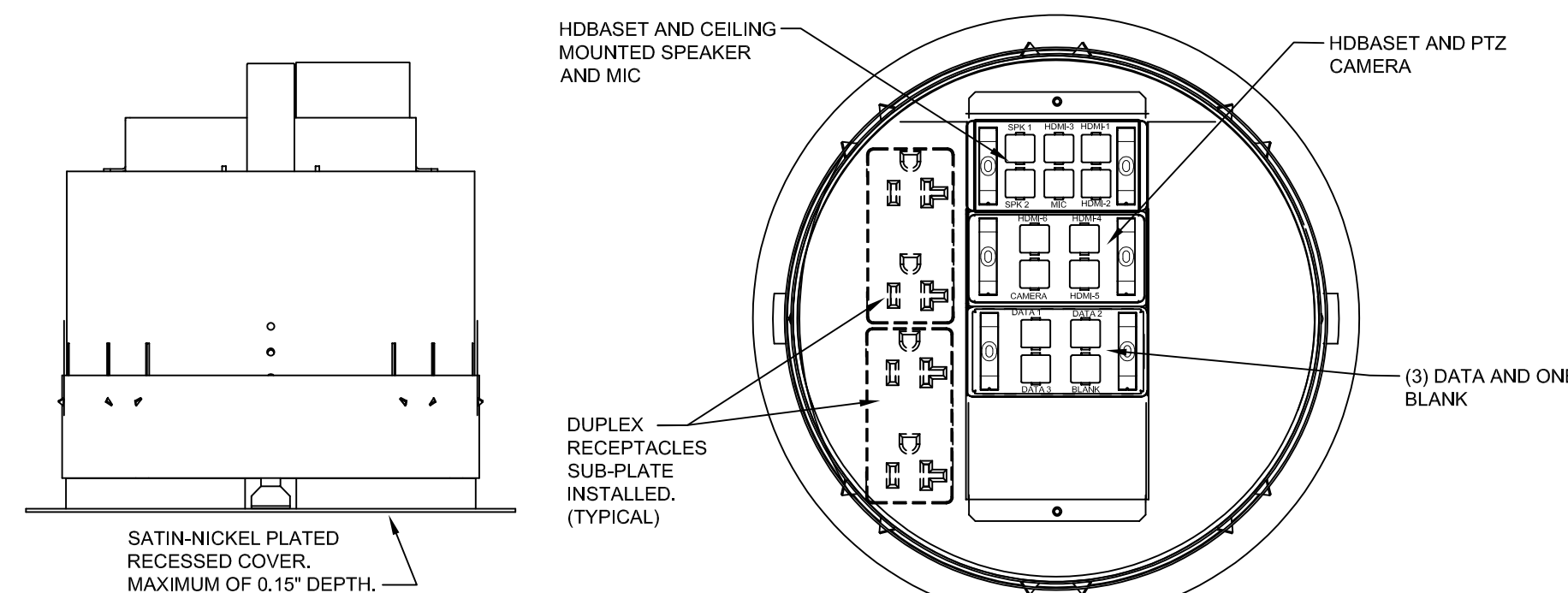
AV1 - POWER RECEPTACLE(S) (REFER TO ELECTRICAL DRAWINGS)
- M4L-262 PLATE WITH H956020 SERIES CAT-6 DATA JACKS
- BLANK COVER PLATE

AV STORAGE WALL BOX
NO SCALE INTERCONNECT BETWEEN WALL BOXES.



PT1 LEGRAND #8AT SERIES 8 INCH POKE-THRU
NO SCALE

FIRE-RATED POKE-THRU. SEE MEP DRAWINGS FOR POKE-THRU NOTES AND DETAILS. CONTRACTOR SHALL FURNISH AND INSTALL POKE THRU CABLING CONNECTIONS AND JACKS. REFER TO DRAWINGS AND DETAILS.



PT4 LEGRAND #10AT SERIES 10 INCH POKE-THRU
NO SCALE

FIRE-RATED POKE-THRU. SEE MEP DRAWINGS FOR POKE-THRU NOTES AND DETAILS. CONTRACTOR SHALL FURNISH AND INSTALL POKE THRU CABLING CONNECTIONS AND JACKS. REFER TO DRAWINGS AND DETAILS.