

# MCHENRY COUNTY COLLEGE

## UNIVERSITY CENTER AT MCC

222 E CHURCH ST  
WOODSTOCK, ILLINOIS 60098

ISSUED FOR BIDS

9.19.23

DKA PROJECT NO: 22-050



ARCHITECT:

DEMONICA KEMPER ARCHITECTS  
125 N. HALSTED ST., SUITE 301  
CHICAGO, IL 60661  
T: 312.496.0000 F: 312.496.0001



MEP-FP-T-ENGINEERS

20/10 ENGINEERING GROUP, LLC  
1216 TOWER ROAD  
SCHAUMBURG, IL 60173  
P: 847.882.2010 F: 847.882.2201



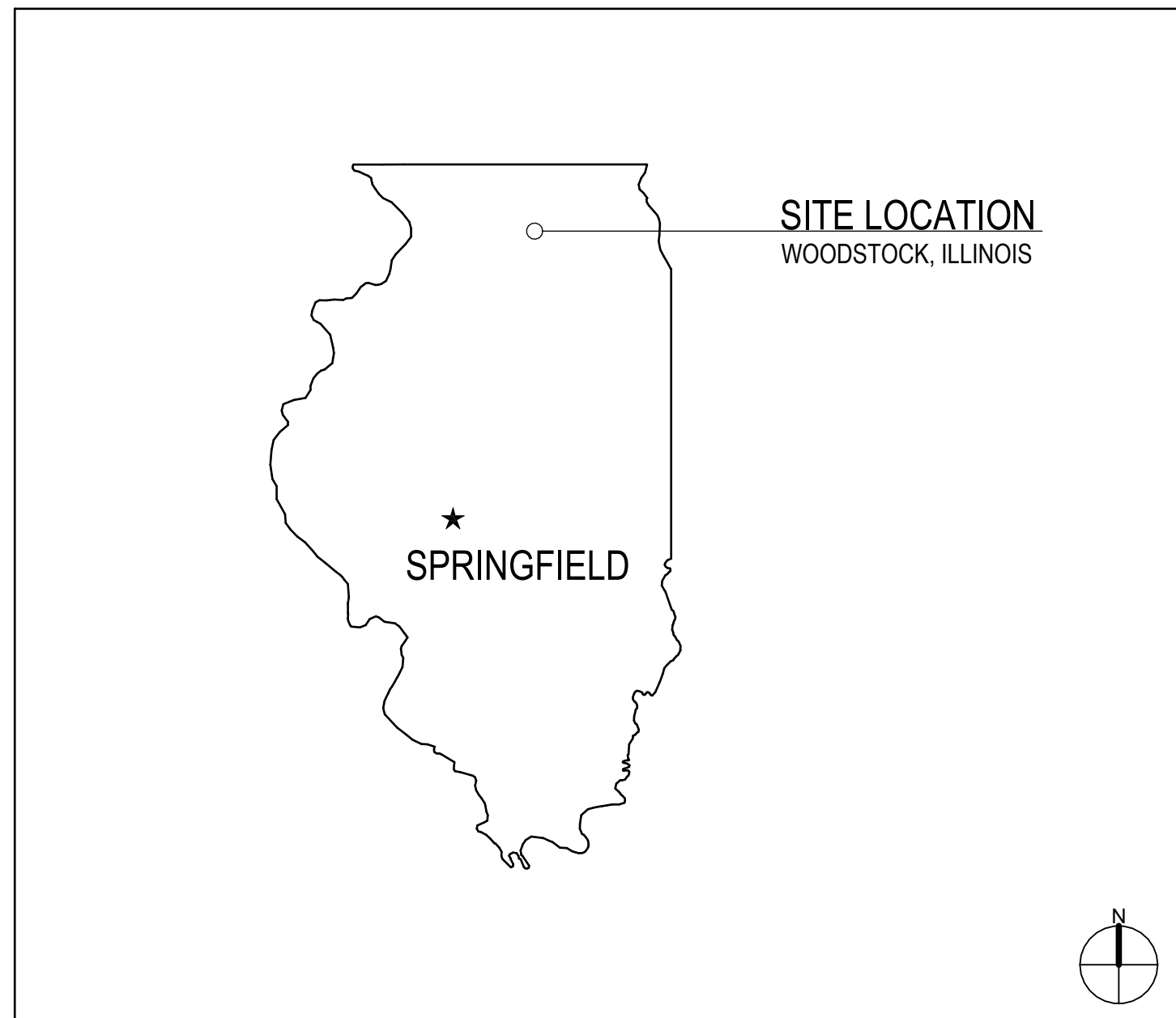
CIVIL ENGINEERS

HRG GREEN  
1391 CORPORATE DRIVE, SUITE 203  
MCHENRY, IL 60050  
P: 815.385.1778 F: 815.385.1781

# ABBREVIATIONS

AP ACCESS PANEL	HDW HARDWARE	TEL TELEPHONE
ACOUST ACUSTICAL	HDWD HARDWOOD	TV TELEVISION
ACT ACUSTICAL CEILING TILE	HDR HEADER	TRZ TERRAZZO
ADJ ADJACENT	HTG HEATING	TB TILE BASE
A.F.F. ABOVE FINISH FLOOR	HVAC HEATING, VENTILATING, AIR CONDITIONING	THK THICK
AGGR AGGREGATE	HT HEIGHT	T.O.C. TOP OF CURB
A/C AIR CONDITIONING	HC HOLLOW CORE	TOP TOP OF PAVEMENT
ALT ALTERNATE	HM HOLLOW METAL	TOW TOP OF WALL
ALUM ALUMINUM	HMF HOLLOW METAL FRAME	T&G TONGUE AND GROOVE
ANG ANGLE	HORZ HORIZONTAL	TYP TYPICAL
APPD APPROVED	HB HOSE BIB	
APPROX APPROXIMATE	HR HOUR	UNF UNFINISHED
ARCH ARCHITECTURAL OR ARCHITECT		UN.O. UNLESS NOTED OTHERWISE
AD AREA DRAIN	INC INCLUDE	UR URINAL
ASB ASBESTOS	I.D. INSIDE DIAMETER	
ASPH ASPHALT	INSUL INSULATION	VB VINYL BASE
AV AUDIO VISUAL	INTR INTERIOR	VERT VERTICAL
	INV INVERT	VEST VESTIBULE
BSMT BASEMENT	JAN JANITOR	VCT VINYL COMPOSITION TILE
BRG BEARING	JT JOINT	VW VINYL WALLCOVERING
BM BEAM	KIT KITCHEN	
BTW BETWEEN	LAM LAMINATE	WSCT WAINSCOT
BITUM BITUMINOUS	LAV LAVATORY	WC WATER CLOSET
BLK BLOCK	LH LEFT HAND	WLK WALK-OFF MAT
BLKG BLOCKING	LGTH LENGTH	WR WATER RESISTANT
BD BOARD	LT LIGHT	WT WALL TILE OR WEIGHT
BRK BRICK	LWC LIGHT WEIGHT CONCRETE	W WEST
BLDG BUILDING	LL LINTEL	W WIDE FLANGE "W16x21"
	LN LINOLEUM	W WIDTH
CAB CABINET	LL LIVE LOAD	W/ WITH
CIP CAST IN PLACE		W/O WITHOUT
CIPC CAST IN PLACE CONCRETE	MH MANHOLE	WD WOOD
CI CURB INLET	MFR MANUFACTURER	WDP WOOD PANEL
CB CATCH BASIN	MAS MASONRY	
CLG CEILING	MO MASONRY OPENING	X EXISTING
CTR CENTER	MTL METAL	
CL CONTROL JOINT	MAX MAXIMUM	
CL CENTER LINE	MECH MECHANICAL	
CPT CARPET	MTC MECHANICAL TRADES CONTRACTOR	
CT CERAMIC TILE	MEMB MEMBRANE	
CLR CLEAR	MT MARBLE TILE	
CLO CLOSET	MIN MINIMUM	
COL COLUMN	MISC MISCELLANEOUS	
CONC CONCRETE	MTD MOUNDED	
CONN CONNECTION	MTG MOUNTING	
CONST CONSTRUCTION	MUL MULLION	
CM CONSTRUCTION MANAGER		
CONT CONTINUOUS OR CONTINUE	NOM NOMINAL	
CONTR CONTRACTOR	N NORTH	
CK CORK	N.I.C. NOT IN CONTRACT	
CORR CORRIDOR	N.T.S. NOT TO SCALE	
CNSK COUNTERSUNK	NO OR # NUMBER	
CRS COURSE		
DEMO DEMOLISH OR DEMOLITION	OBS OBSURE	
DEPT DEPARTMENT	OFF OFFICE	
DL DEAD LOAD	O.C. ON CENTER	
DIA DIAMETER	OPNG OPENING	
DIM DIMENSION	OPP OPPOSITE	
DISP DISPENSER	OSB ORIENTED STRAND BOARD	
DIV DIVISION	O.D. OUTSIDE DIAMETER	
DR DOOR	OA OVERALL	
DO DOOR OPENING	OFD OVERFLOW DRAIN	
DBL DOUBLE		
DS DOWNSPOUT	PT PAINT	
DRW DRAWER	PTD PAINTED	
DWG DRAWING	PR PAIR	
DF DRINKING FOUNTAIN	PNL PANEL	
DS DRY STANDPIPE	PBD PARTICLE BOARD	
DWT DETECTABLE WARNING TILE	PTN PARTITION	
	PLAS PLASTIC	
E EAST	P-LAM PLASTIC LAMINATE	
EA EACH	PL PLATE	
EIFS EXTERIOR INSULATION FINISH SYSTEM	PTC PLUMBING TRADES CONTRACTOR	
ELEC ELECTRICAL	PLYWD PLYWOOD	
ETC ELECTRICAL TRADES CONTRACTOR	PSI POUNDS PER SQUARE INCH	
EWC ELECTRICAL WATER COOLER	PC PRECAST	
EP ELECTRICAL PANEL BOARD	PCC PRECAST CONCRETE	
EL ELEVATION		
ELEV ELEVATION	QT QUARRY TILE	
ELVTR ELEVATOR		
ENCL ENCLOSURE	R RADIUS	
EMER EMERGENCY	RWL RAIN WATER LEADER	
EP PT EPOXY PAINT	RFRG REFRIGERATOR	
EPF EPOXY FLOORING	RGTR REGISTER	
EQ EQUAL	REINF REINFORCED	
EQPMT EQUIPMENT	RQD REQUIRED	
EXSTG EXISTING	RES RESILIENT	
EXP EXPANSION	RA RETURN AIR	
EXP JT EXPANSION JOINT	RAG RETURN AIR GRILLE	
EXPD EXPOSED	RH RIGHT HAND	
EXTR EXTERIOR	ROW RIGHT OF WAY	
	R RISER	
FOC FACE OF CONCRETE	RD ROOF DRAIN	
FOF FACE OF FINISH	RM ROOM	
FOS FACE OF STUD	R.O. ROUGH OPENING	
FR FIBERGLASS REINFORCED PANEL	RB RUBBER BASE	
FIN FINISH OR FINISHED		
FA FIRE ALARM	SECT SECTION	
FE FIRE EXTINGUISHER	SK SINK	
FEC FIRE EXTINGUISHER CABINET	SCHED SCHEDULE	
FHC FIRE HOSE CABINET	SHTG SHEATHING	
FPRF FIREPROOF	SHT SHEET	
FB FLAT BAR STOCK	SV SHEET VINYL	
FL FLOOR	SHWR SHOWER	
FD FLOOR DRAIN	SIM SIMILAR	
FLUOR FLUORESCENT	SC SEALED CONCRETE	
FT FOOT OR FEET	SPM SINGLE PLY MEMBRANE	
FTG FOOTING	S SOUTH	
FDN FOUNDATION	SFRM SPRAY APPLIED FIRE RESISTIVE MATERIAL	
FRM FRAME	SPEC SPECIFICATION	
FRMG FRAMING	SQ SQUARE	
FS FULL SIZE	S.S. STAINLESS STEEL	
FURR FURRING	STD STANDARD	
FUTR FUTURE	STA STATION	
FW FABRIC WALLCOVERING	STL STEEL	
	STOR STORAGE	
GA GAUGE	STRUCT STRUCTURE OR STRUCTURAL	
GALV GALVANIZED	SUSP SUSPENDED	
GEN GENERAL	SAT SUSPENDED ACOUSTICAL TILE	
GC GENERAL CONTRACTOR	SYM SYMMETRICAL	
GTC GENERAL TRADES CONTRACTOR		
GL GLASS OR GLAZING		
GD GRADE		
GND GROUND		
GYP BD GYPSUM BOARD		

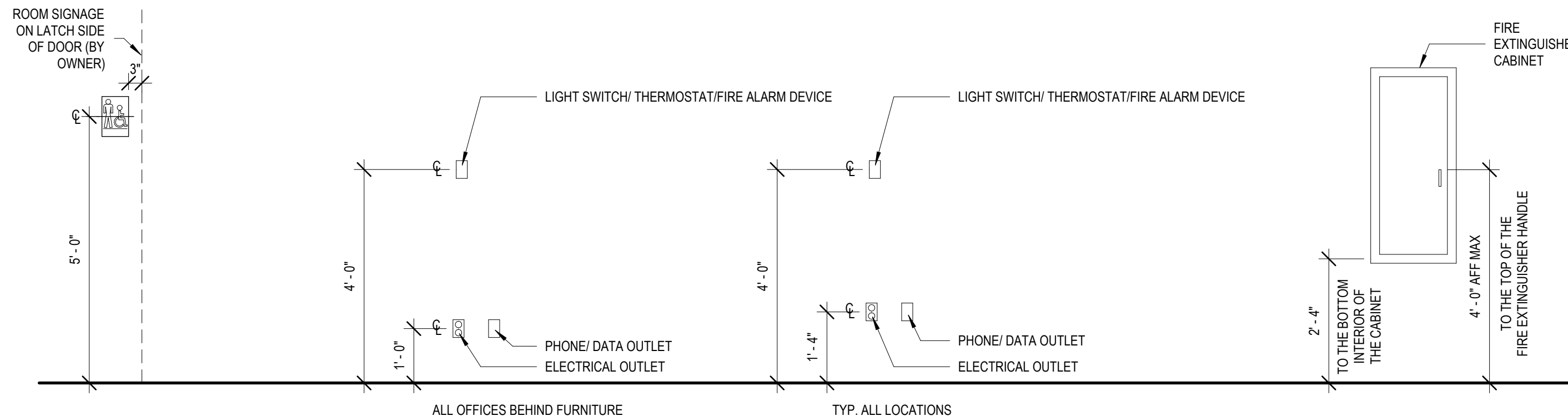
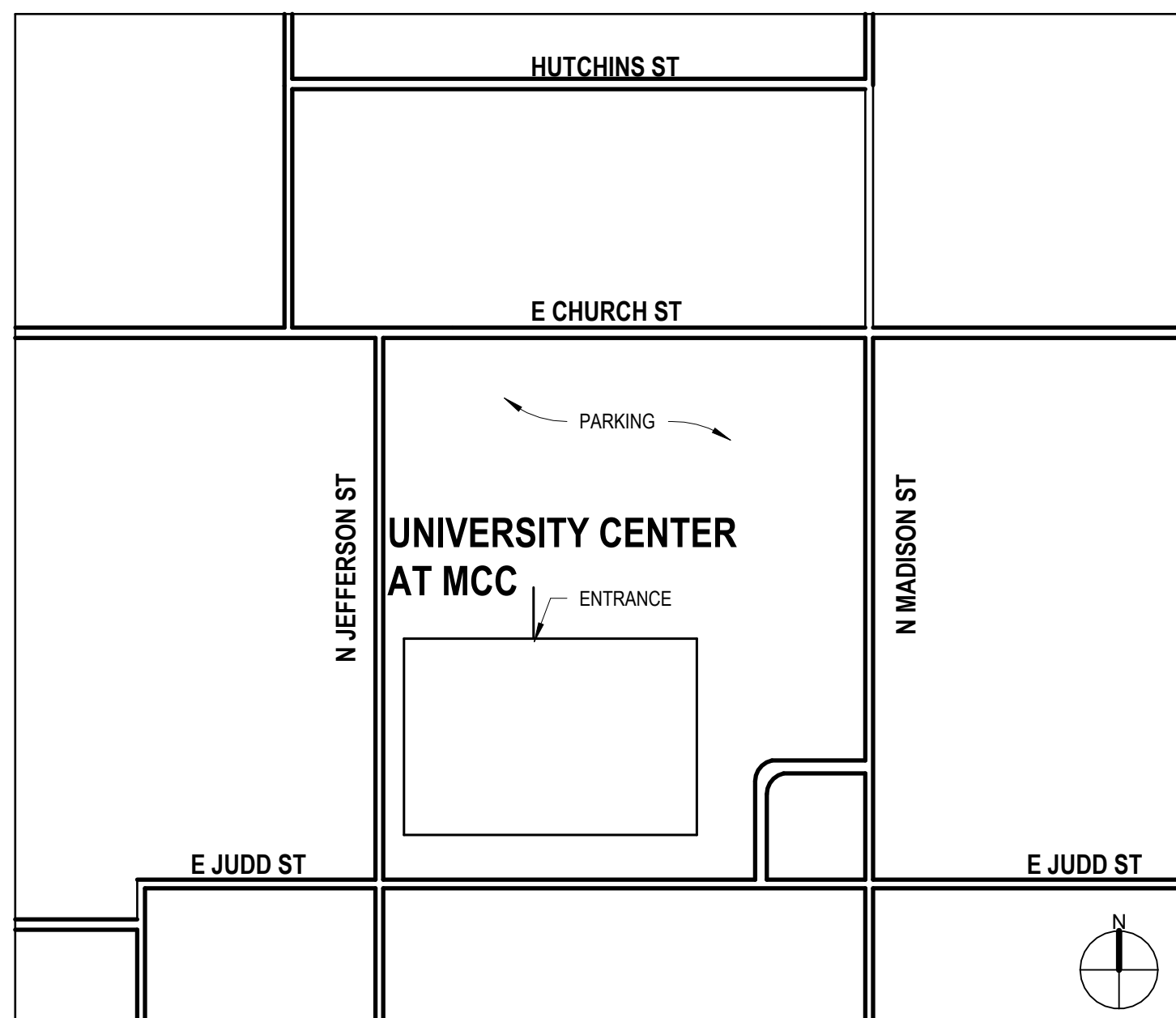
# STATE LOCATION MAP



# SHEET INDEX

GENERAL	FIRE PROTECTION
G1.00 SHEET INDEX, ABBREVIATIONS, SYMBOLS & NOTES	FPD1.00 FIRE PROTECTION DEMOLITION
AC1.10 CODE PLAN	FP1.00 FIRE PROTECTION PLAN
	FP5.00 FIRE PROTECTION GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
CIVIL	PLUMBING
C1.00 SITE DEMOLITION PLAN	PD1.00 UNDERFLOOR PLUMBING DEMOLITION PLAN
C1.01 STANDARD CONSTRUCTION DETAILS	PD1.10 PLUMBING DEMOLITION PLAN
C1.02 STANDARD CONSTRUCTION DETAILS	P1.00 UNDERFLOOR PLUMBING PLAN
	P1.10 PLUMBING PLAN
ARCHITECTURAL	P4.00 PLUMBING RISER DIAGRAMS
AD1.10 DEMOLITION PLAN	P5.00 PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
AD2.10 DEMOLITION RCP	P6.00 PLUMBING SCHEDULES
A1.11 OVERALL FLOOR PLAN	P7.00 PLUMBING SCHEDULES
A1.12 DIMENSION PLAN	
A2.11 REFLECTED CEILING PLAN	ELECTRICAL
A2.51 ENLARGED REFLECTED CEILING PLAN	ED1.10 ELECTRICAL DEMOLITION PLAN
A3.10 ROOF PLAN	E1.10 ELECTRICAL PLAN
A5.01 SECTION DETAILS	E1.20 ELECTRICAL ROOF PLAN
A7.10 PLAN DETAILS	E2.10 LIGHTING PLAN
A7.11 CEILING DETAILS	E3.00 ENLARGED ELECTRICAL PLANS
A8.01 TOILET ROOMS-PLANS AND ELEVATIONS	E4.00 ELECTRICAL RISER DIAGRAM
A9.01 INTERIOR ELEVATIONS	E5.00 ELECTRICAL SYMBOLO LIST AND ABBREVIATIONS
A9.02 INTERIOR ELEVATIONS	E5.10 ELECTRICAL NOTES
A9.51 MILLWORK DETAILS	E6.00 ELECTRICAL SCHEDULES
A10.00 DOOR SCHEDULE, ELEVATIONS, AND DETAILS	E6.10 ELECTRICAL SCHEDULES
A11.01 FINISH PLAN	E6.20 ELECTRICAL SCHEDULES
A12.01 FURNITURE PLAN (FOR REFERENCE ONLY)	E7.00 ELECTRICAL DETAIL
	E7.10 ELECTRICAL DETAIL
MECHANICAL	E7.20 ELECTRICAL DETAIL
ME1.00 MECHANICAL ELECTRICAL NOTES AND DETAILS	E7.30 ELECTRICAL DETAILS
DHV1.00 HVAC DEMOLITION PLAN	E7.40 ELECTRICAL DETAIL
HV1.00 HVAC PLAN	
HV2.00 HVAC ROOF PLAN	
HV4.00 HVAC LEGEND NOTES, AND DETAILS	
HV5.00 HVAC SCHEDULES	

# AREA MAP



NOTE: IN THE EVENT OF A CONFLICT BETWEEN DIMENSIONS SHOWN ON THIS DRAWING AND ANY OTHER ARCHITECTURAL, ELECTRICAL, OR MECHANICAL SHEETS OR SPECIFICATIONS, NOTIFY ARCHITECT OF DISCREPANCY.



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

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**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

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KEY PLAN:

SHEET STATUS: 9.19.23

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NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**SHEET INDEX, ABBREVIATIONS, SYMBOLS & NOTES**

SHEET NUMBER:

**G1.00**

9/22/2023 2:02:58 PM



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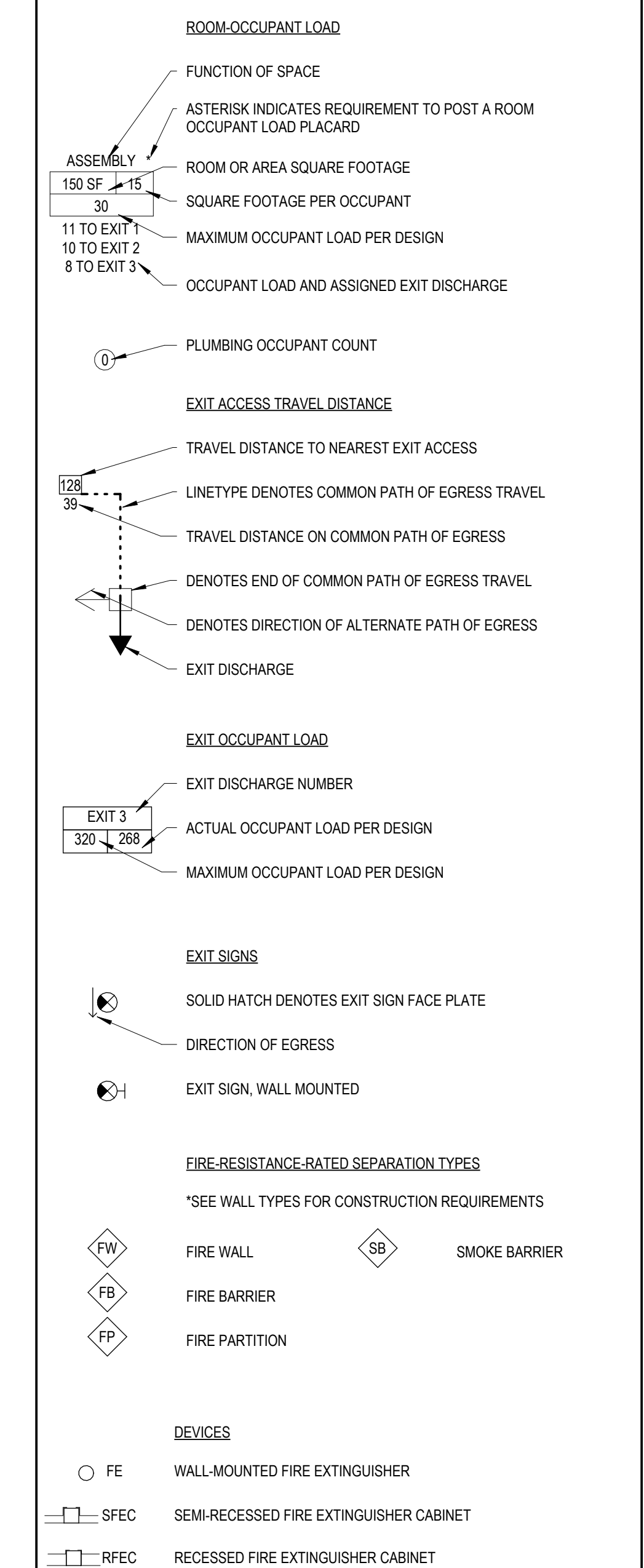
SHEET TITLE:  
**CODE PLAN**

SHEET NUMBER:  
**AC1.10**

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**CODE COMPLIANCE PLAN SYMBOLS LEGEND:**

NOTE: REFER TO M.E.P.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS



**CODE COMPLIANCE NOTES:**

**APPLICABLE CODES:**

- 2021 INTERNATIONAL BUILDING CODE, AS AMENDED BY THE CITY OF WOODSTOCK
- 2021 INTERNATIONAL RESIDENTIAL CODE, AS AMENDED BY THE CITY OF WOODSTOCK
- 2020 NATIONAL ELECTRICAL CODE, AS AMENDED BY THE CITY OF WOODSTOCK
- 2021 INTERNATIONAL MECHANICAL CODE, AS AMENDED BY THE CITY OF WOODSTOCK
- 2021 INTERNATIONAL FIRE CODE, AS AMENDED BY THE CITY OF WOODSTOCK
- 2021 INTERNATIONAL FUEL GAS CODE
- 2021 INTERNATIONAL ENERGY CONSERVATION CODE
- 2021 INTERNATIONAL EXISTING BUILDING CODE
- 2021 INTERNATIONAL PROPERTY MAINTENANCE CODE
- ILLINOIS STATE PLUMBING CODE, CURRENT EDITION
- ILLINOIS ACCESSIBILITY CODE, CURRENT EDITION

**BUILDING AREA AND HEIGHT SUMMARY:**

FIRST FLOOR (GROSS):	23,000 SF
BUILDING STORES:	1 STORY
BUILDING HEIGHT:	20'-0"

**BUILDING CODE CLASSIFICATION:**

- OCCUPANT CLASSIFICATION: BUSINESS GROUP B, 304
- ACCESSORY OCCUPANCIES: ASSEMBLY GROUP A-3, 508.2
- ALLOWABLE AREA AND HEIGHT: BASED ON USE GROUP B: FULLY SPRINKLERED  
 ALLOWABLE FLOOR AREA: 506.2  
 ALLOWABLE BUILDING HEIGHT: 504.3  
 ALLOWABLE BUILDING STORES: 504.4
- CONSTRUCTION TYPE: II-B, FULLY SPRINKLERED PER 903.3.1.1

- FIRE RESISTANCE RATINGS, TYPE II-B CONSTRUCTION: 601  
 STRUCTURAL FRAME: 0 HRS  
 EXTERIOR BEARING WALLS: 0 HRS  
 INTERIOR BEARING WALLS: 0 HRS  
 EXTERIOR NON-BEARING WALLS: 0 HRS  
 INTERIOR NON-BEARING WALLS: 0 HRS  
 FLOOR CONSTRUCTION: 0 HRS  
 ROOF CONSTRUCTION: 0 HRS

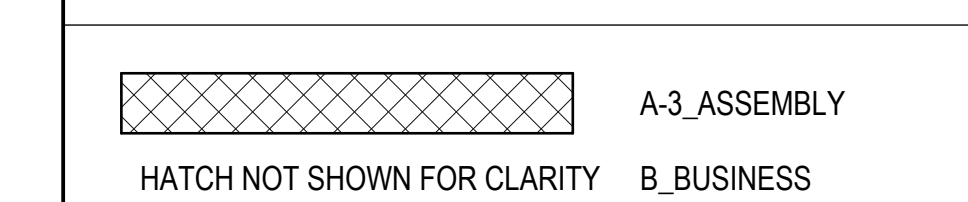
**OTHER APPLICABLE SECTIONS:**

- FIRE-RESISTANCE-RATED SEPARATIONS:  
 A. 102.2 CORRIDORS: 0 HRS
- 1017.2. EXIT ACCESS TRAVEL DISTANCES, WITH SPRINKLER SYSTEM:  
 OCCUPANCY GROUP B: 300 FT.
- COMMON PATH OF EGRESS TRAVEL, WITH SPRINKLER SYSTEM:  
 OCCUPANCY GROUP B: 100 FT.
- DEAD END CORRIDOR LENGTH, WITH SPRINKLER SYSTEM:  
 OCCUPANCY GROUP B: 50 FT.

**CODE PLAN REFERENCED NOTES:**

- EXISTING PANIC HARDWARE TO REMAIN, LOCATED ON ONE LEAF OF DOUBLE DOOR ONLY AS INDICATED. REFER TO EXIT REFERENCE FOR TOTAL EGRESS OCCUPANCY EXITING CAPACITY.
- NOT USED AS AN EGRESS EXIT

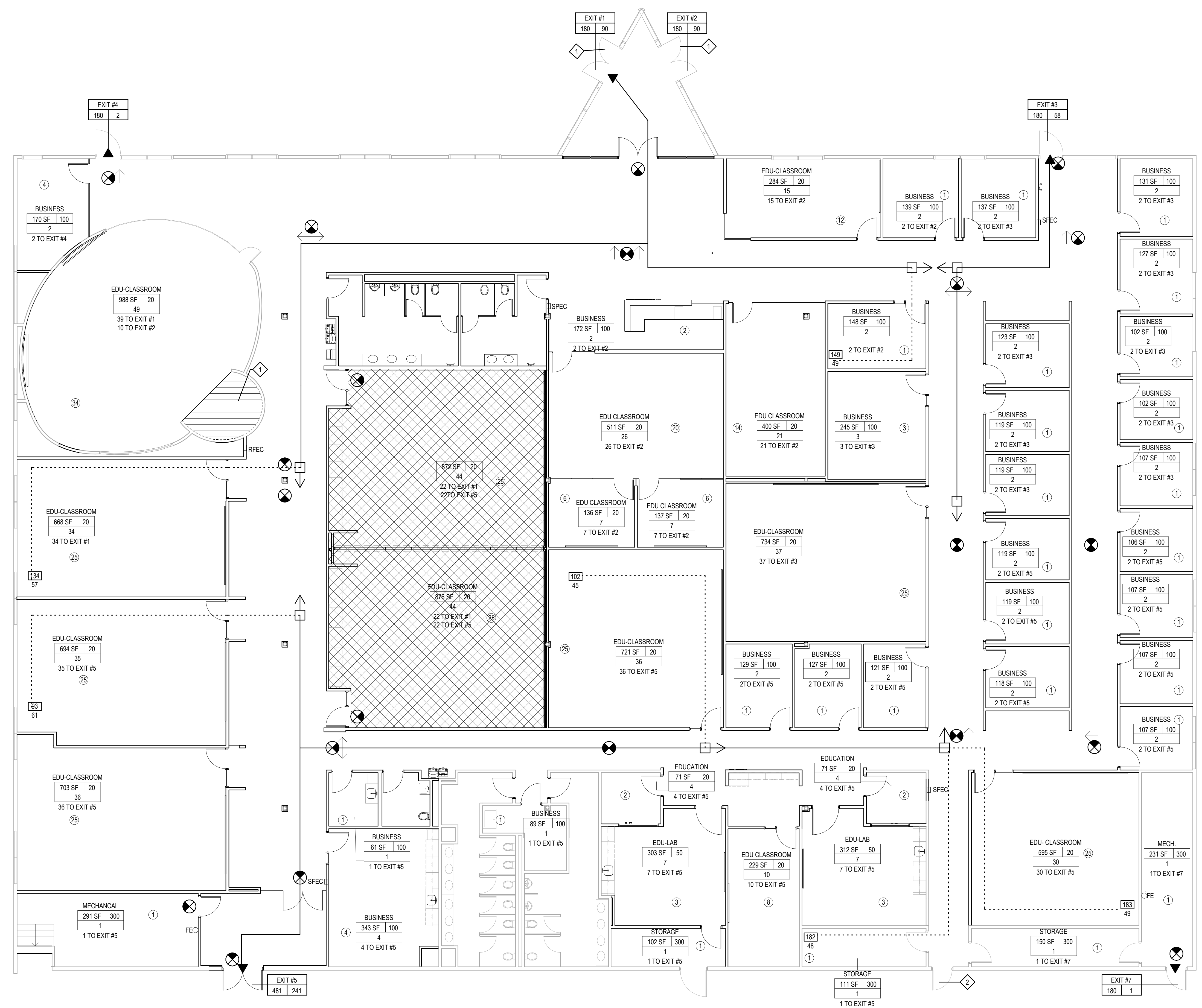
**OCCUPANCY CLASSIFICATION LEGEND:**



**PLUMBING FIXTURE COUNT:**

- NUMBER OF OCCUPANTS, ACTUAL: 349
- NUMBER OF OCCUPANTS, PER SEX: 175
- BUILDING TYPE: COLLEGE

FIXTURE TYPE	QUANTITY			
	REQUIRED	CURRENTLY PROVIDED	WOMEN	MEN
LAVATORIES	4	4	9	6
WATER CLOSETS	9	5	9	7
URINALS	-	4	-	4
DRINKING FOUNTAINS	5	5		
SERVICE SINKS	1 PER FLOOR	1 PER FLOOR		



**1 CODE PLAN**  
 1/8" = 1'-0"

A  
B  
C  
D  
E

1 2 3 4 5 6



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**LEGEND**

- DENOTES REMOVE AND REPLACE HMA PAVEMENT
- DENOTES REMOVE AND REPLACE PCC SIDEWALK
- DENOTES SAWCUT FULL DEPTH

**TRAFFIC CONTROL NOTES:**

- ALL APPLICABLE CITY PERMITS, INCLUDING BUT NOT LIMITED TO CLOSURE PERMITS, SHALL BE OBTAINED PRIOR TO ANY CONSTRUCTION WITHIN CITY ROW OR LANE CLOSURES.
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL COORDINATE HIS TRAFFIC CONTROL WITH OTHER CONSTRUCTION PROJECTS IN THE AREA.
- SIDEWALK CLOSED SIGNS REQUIRED FOR ALL SIDEWALK CLOSURES.
- THE CONTRACTOR IS CAUTIONED NEITHER TO OBSTRUCT NOR REMOVE ANY EXISTING PAVEMENT, NOR TO DISTURB THE EXISTING TRAFFIC PATTERNS MORE THAN IS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.

**PROJECT NOTES:**

- WATER SERVICE CUT AND CAP ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
- ALL EXISTING UTILITIES TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE AND COMPLY WITH ALL UTILITY COMPANIES INVOLVED IN PROJECT AND PAY ALL REQUIRED FEES AND COSTS.
- ALL STRUCTURES & DEBRIS SHALL BE REMOVED PRIOR TO CONSTRUCTION & DISPOSED OF OFFSITE.
- ANY EXISTING FIELD DRAIN TILES ENCOUNTERED SHALL BE RECONNECTED.
- THE CONTRACTOR IS CAUTIONED NEITHER TO OBSTRUCT NOR REMOVE ANY EXISTING PAVEMENT, NOR TO DISTURB THE EXISTING TRAFFIC PATTERNS MORE THAN IS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
- ALL BITUMINOUS PAVEMENT REMOVAL AREAS SHALL BE SAWCUT.

**CLASS D PATCH SECTION**

4.0" HOT-MIX ASPHALT SURFACE COURSE MIXTURE D, IL-9.5, NS0  
 (PLACED IN TWO - 2" LIFTS)  
 PROPOSED 12" AGGREGATE BASE COURSE, TYPE B, CA-6, (100% CRUSHED)

**SIDEWALK SECTION**

VARIABLES - SEE PLANS

5" P.C.C. SIDEWALK, &  
 6" ACROSS DRIVEWAY/ACCESS ROADS  
 4" MIN. AGGREGATE BASE, &  
 5" AT DRIVEWAY/ACCESS ROADS  
 TYPE B (CA-6, 100% CRUSHED)

COMPACTED SUBGRADE (95% STANDARD PROCTOR COMPACTION)

TYPICAL ALL EXTERIOR CONCRETE:  
 - CLASS S1 CONCRETE  
 - 4000# CONCRETE  
 - CONTROL JOINTS CUT @ 5' O.C.  
 (OR AT SAME WIDTH OF SIDEWALK)



**811**  
 Know what's below.  
 Call before you dig.

PRELIMINARY  
 NOT FOR CONSTRUCTION

KEY PLAN:

SHEET STATUS: 9.19.23  
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NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**SITE DEMOLITION PLAN**

SHEET NUMBER:  
**C1.00**



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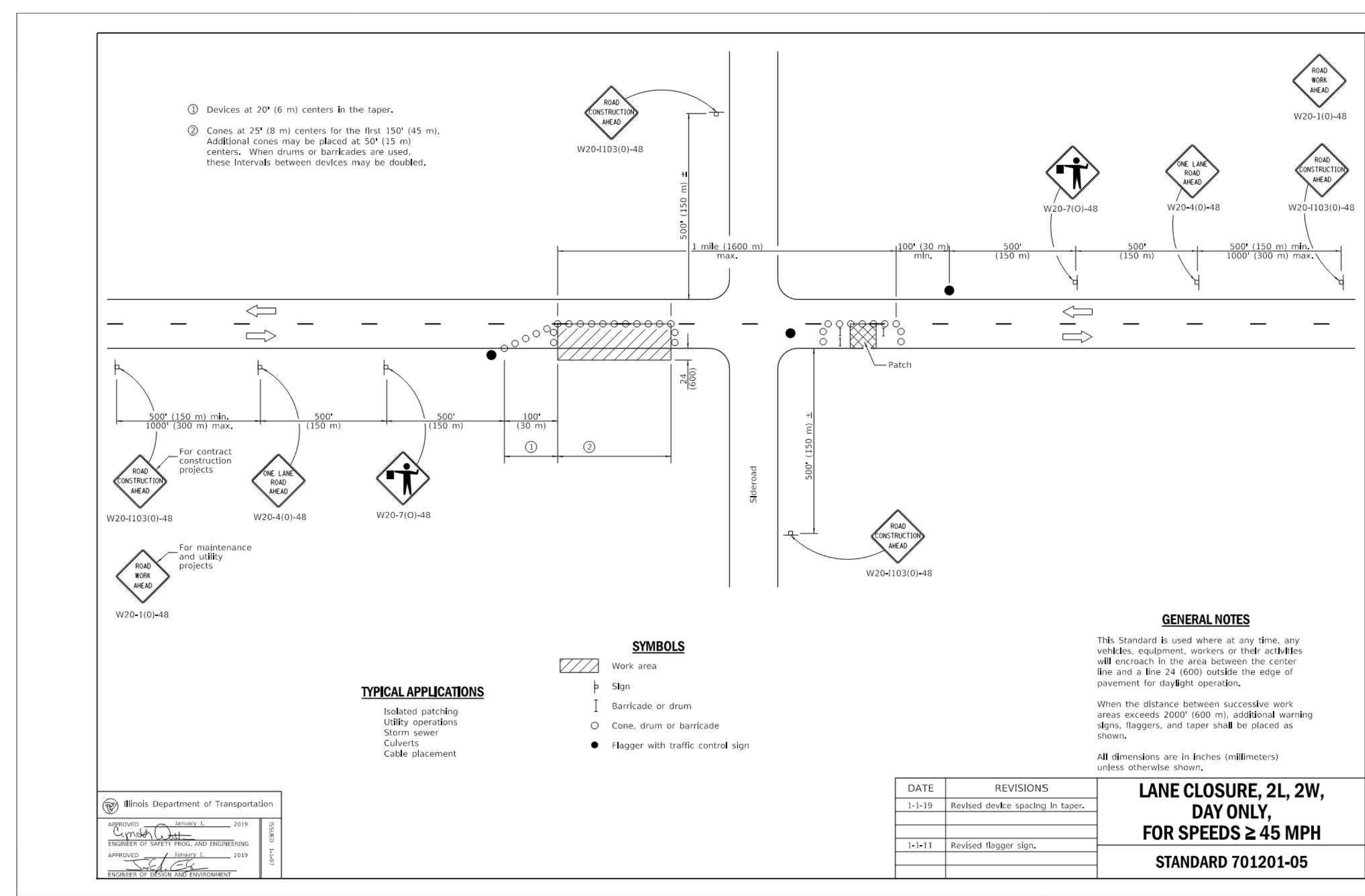
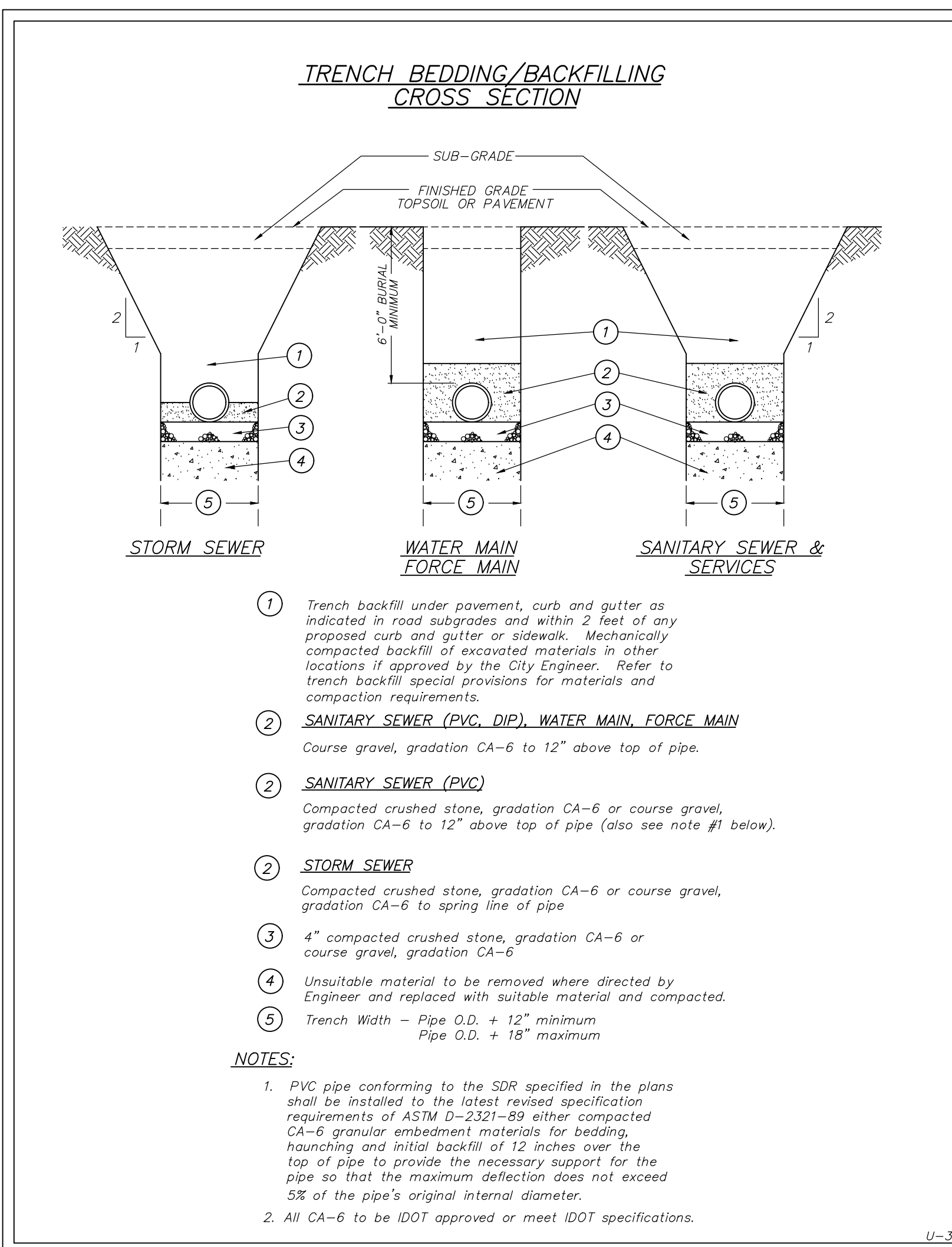
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**STANDARD  
 CONSTRUCTION  
 DETAILS**

SHEET NUMBER:  
**C1.01**

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**STANDARD CONSTRUCTION DETAILS**

SHEET NUMBER:  
**C1.02**

PRELIMINARY  
 NOT FOR CONSTRUCTION

**TRAFFIC CONTROL DEVICES**  
 STANDARD 701901-08  
 (Sheet 2 of 3)

**TRAFFIC CONTROL DEVICES**  
 STANDARD 701901-08  
 (Sheet 1 of 3)

**TRAFFIC CONTROL DEVICES**  
 STANDARD 701901-08  
 (Sheet 3 of 3)



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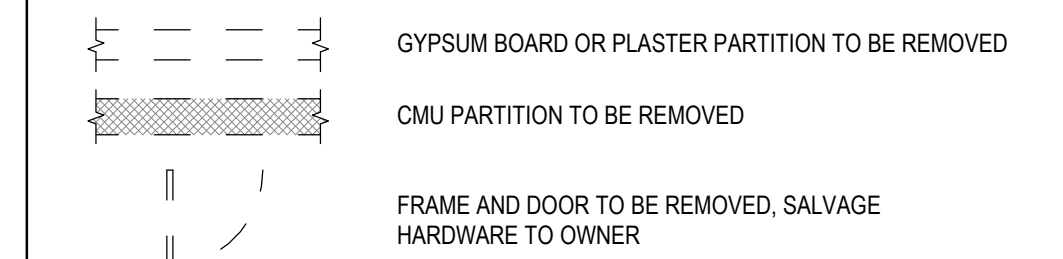
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**DEMO FLOOR PLAN SYMBOLS LEGEND:**

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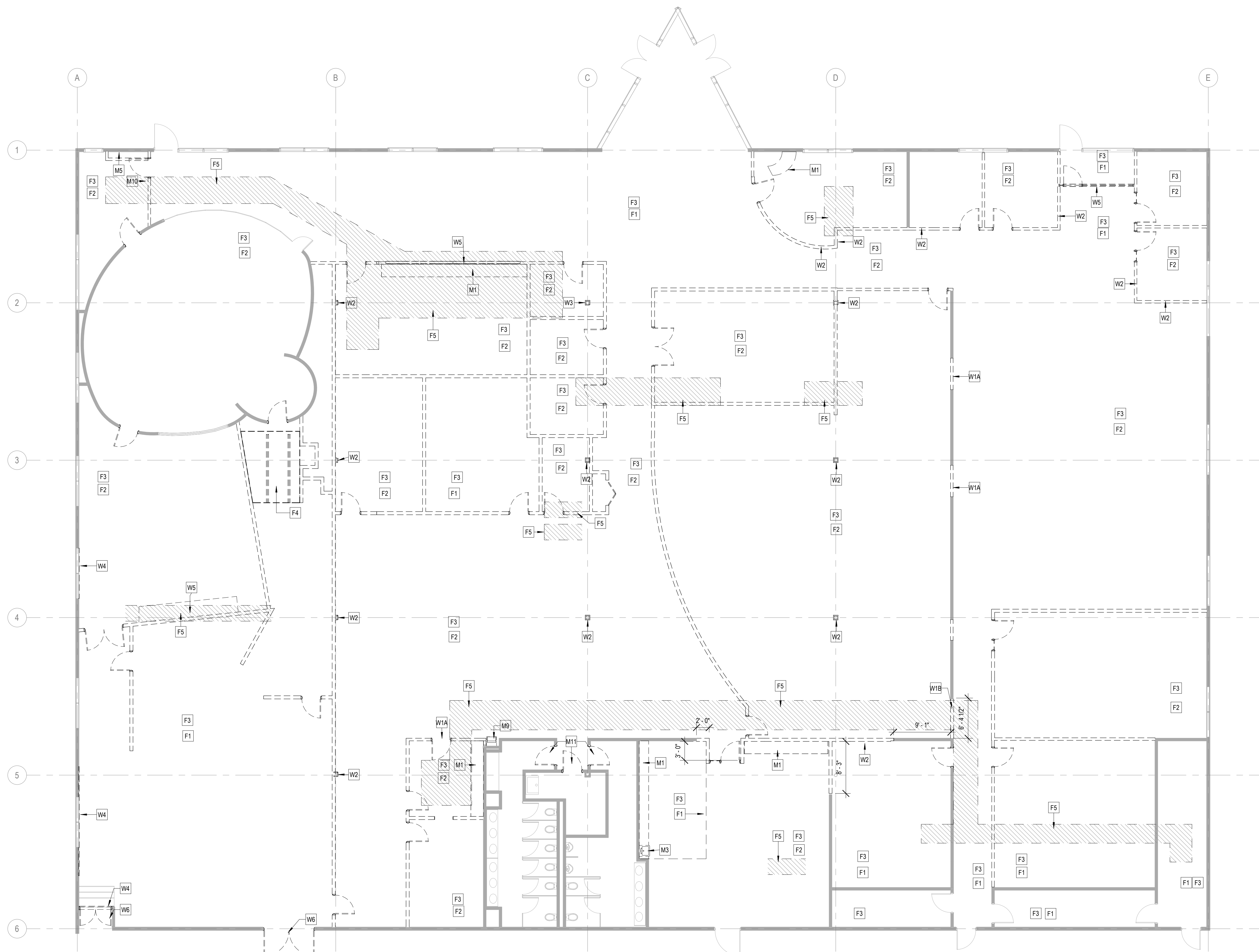
**DEMO PLAN GENERAL NOTES:**

- PRIOR TO AND DURING ANY DEMOLITION THE CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED TO INSTALL ALL NEW WORK. REPAIR, PATCH AND FINISH EXISTING FLOORS, WALLS AND CEILINGS DESIGNATED TO REMAIN TO MATCH EXISTING CONDITIONS.
- REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICES AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
- DURING THE BIDDING PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE SITE AND THE FACILITY TO DETERMINE EXISTING CONDITIONS. CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED AND PLACED INTO PROPER OPERATIONS ALL MOVED WITH THE ORIGINAL SYSTEM.
- WHEN TEMPORARY SHORING AND BRACING IS REQUIRED, CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A PROFESSIONAL ENGINEER, LICENSED TO PRACTICE IN THE STATE WHERE THE PROJECT IS LOCATED, TO DESIGN AND PREPARE DETAILED DRAWINGS.
- CONTRACTOR SHALL COORDINATE SCHEDULE OF DEMOLITION WORK WITH THE OVERALL PHASING PLAN, ALL AREAS SURROUNDING EACH PHASE OF DEMOLITION/CONSTRUCTION WILL BE OCCUPIED BY THE OWNER DURING THE OWNER'S NORMAL BUSINESS HOURS. DEMOLITION WORK SHALL NOT ENCUMBER THE USE OF EXISTING ADJACENT SPACES.
- EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS IN SERVICE, IN ORDER TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
- REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRIC PANELS, AND ANY OTHER MISCELLANEOUS EQUIPMENT NOT REQUIRED FOR THE NEW FACILITY.
- REMOVE ALL RECESSED FLOOR BOXES, WALKER DUCTS, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
- REMOVE ALL DOOR STOPS AT ASSOCIATED DOORS TO BE DEMOLISHED.
- NO TOXIC SUBSTANCES HAVE BEEN NOTED ON THE SITE. SHOULD THE CONTRACTOR ENCOUNTER ANY ASBESTOS, ASBESTOS PRODUCTS, PCBs OR OTHER TOXIC SUBSTANCES, THE CONTRACTOR SHOULD REPORT THIS IMMEDIATELY TO THE OWNER IN WRITING PRIOR TO CONTINUING WORK IN THIS AREA. WORK SHALL NOT BE RESUMED EXCEPT BY WRITTEN AUTHORIZATION OR AGREEMENT.
- ALL CONSTRUCTION DEBRIS AND EXCESS MATERIAL IS TO BE REMOVED BY THE CONTRACTOR AT THE END OF EACH WORK DAY. THE JOB SITE IS TO BE LEFT SUFFICIENTLY CLEAN AS TO WARRANT OWNER'S APPROVAL.
- REMOVE ALL CEILING SYSTEMS IN THEIR ENTIRETY, INCLUDING TILE, GRID, SUSPENSION WIRING, ANCHORS AND ALL ASSOCIATED APPURTENANCES.
- CONTRACTOR SHALL SALVAGE ALL EXISTING CEILING TILES FOR POSSIBLE REUSE OR AS EXTRA STOCK FOR OWNER. SALVAGE ONLY UN-CUT TILES WITH NO VISIBLE DAMAGE. ONCE REMOVED, OWNER AND ARCHITECT WILL FIELD REVIEW AND APPROVE SALVAGED TILES PRIOR TO REUSE OR STORAGE.

**DEMO PLAN REFERENCED NOTES:**

- FLOOR DEMOLITION KEYED NOTES**
- F1 REMOVE WALL BASE, RESILIENT TILE FLOORING, AND SUBSTRATE ADHESIVE COMPLETE.
  - F2 REMOVE WALL BASE, CARPETING, AND SUBSTRATE ADHESIVE COMPLETE.
  - F3 REMOVE WALL BASE COMPLETE.
  - F4 REMOVE METAL GRATE AND RAILINGS COMPLETE. PREP FLOOR SLAB DEPRESSION AND INFILL WITH CONCRETE TO E FLUSH WITH ADJACENT FLOOR SLABS.
  - F5 HATCH INDICATES PROPOSED AREA OF SLAB REMOVAL AS REQ. FOR PLUMBING ELECTRICAL WORK. BACKFILL AS REQUIRED AND INFILL PER DETAIL 8/AS/01
- WALL DEMOLITION KEYED NOTES**
- W1 REMOVE GYP BD PARTITION AS REQUIRED FOR NEW OPENING.
  - W2 REMOVE GYP BD PARTITION TO EXTENTS SHOWN.
  - W3 REMOVE AND SALVAGE DOOR, FRAME, AND HARDWARE FOR RE-USE IN NEW WORK.
  - W4 REMOVE FURRING AND INFILL FROM EXISTING WINDOW COMPLETE. REPAIR/TOUCH UP WINDOW AS REQ. FOR NEW WORK.
  - W5 REMOVE STOREFRONT SYSTEM AND MTL. STUD PARTITION ABOVE COMPLETE.
  - W6 REMOVE EXTERIOR DOOR/FRAME COMPLETE. PREP ROUGH OPENING FOR NEW WORK.
- CEILING DEMOLITION KEYED NOTES**
- C2 REMOVE GYP. BD. CEILINGS AND BULKHEAD COMPLETE.
  - C2A REMOVE GYP. BD. CEILING TO EXTENTS SHOWN.
  - C2B EXISTING GYP. BD. CEILING TO REMAIN REMOVE EXISTING RECESSED LIGHT FIXTURES COMPLETE AND PREP OPENING AS REQUIRED FOR NEW LIGHT FIXTURES.
  - C3A REMOVE ACOUSTIC CEILING TILE SYSTEM TO EXTENTS SHOWN.
  - C3B EXISTING CEILING TILE SYSTEM TO REMAIN.
  - C4 REMOVE PRIVACY CURTAINS AND ASSOCIATED TRACK.
  - C5 CURVED GYP. BD. CLOUD CEILING- REMOVE EXISTING RECESSED LIGHT FIXTURES COMPLETE AND PREP OPENINGS AS REQ. FOR NEW LIGHT FIXTURES REMOVE CLOUD CEILING SYSTEM TO BE REMOVED COMPLETE.
  - C6 CLOUD CEILING SYSTEM TO BE REMOVED COMPLETE.
- MISCELLANEOUS DEMOLITION KEYED NOTES**
- M1 REMOVE COUNTERTOP AND BASE CABINETS COMPLETE.
  - M2 REMOVE UPPER CABINETS/SHOULDER COMPLETE.
  - M3 REMOVE SINK AND ASSOCIATED UTILITIES COMPLETE.
  - M4 REMOVE DISPLAY BOARD COMPLETE.
  - M5 REMOVE FULL HEIGHT CABINETS COMPLETE.
  - M6 REMOVE WALL MOUNTED SHELVES COMPLETE.
  - M7 REMOVE WATER SHUT OFF VALVE AND ASSOCIATED PIPING COMPLETE (REFER TO CIVIL AND PLUMBING)
  - M8 (NOT USED)
  - M9 REMOVE DRINKING FOUNTAIN AND ASSOCIATED PLUMBING COMPLETE. FOR RE-LOCATION IN NEW WORK.
  - M10 REMOVE TECHNOLOGY RACK COMPLETE (REFER TO TECH)
  - M11 REMOVE DOOR. FRAME EXISTING TO REMAIN.

\*PROTECT ALL ITEMS NOTED BELOW THROUGH-OUT DEMOLITION AND NEW CONSTRUCTION.  
 \*\*REMOVE AND REINSTALL AS REQUIRED FOR NEW WORK.



**1 DEMOLITION FLOOR PLAN**  
 1/8" = 1'-0"

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**DEMOLITION PLAN**

SHEET NUMBER:  
**AD1.10**



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE  
 UNIVERSITY CENTER AT MCC**  
 222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23

**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**DEMOLITION RCP**

SHEET NUMBER:

**AD2.10**

9/22/2023 2:16:25 PM

**DEMO RCP SYMBOLS LEGEND:**

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- GYPSUM BOARD OR PLASTER PARTITION TO BE REMOVED
- FRAME AND DOOR TO BE REMOVED, SALVAGE DOOR FRAME TO OWNER
- SUSPENDED ACOUSTICAL TILE CEILING TO BE REMOVED WITH BATT INSULATION
- SUSPENDED ACOUSTICAL TILE CEILING TO REMAIN
- GYPSUM BOARD OR PLASTER CEILING TO BE REMOVED
- GYPSUM BOARD OR PLASTER CEILING TO REMAIN
- RECESSED 2x4 LAY-IN LIGHT FIXTURE TO BE REMOVED
- RECESSED 2x2 LAY-IN LIGHT FIXTURE TO BE REMOVED
- LINEAR LIGHT FIXTURE TO BE REMOVED
- PENDANT LIGHT TO BE REMOVED
- TRACK LIGHTING TO BE REMOVED
- RECESSED DOWNLIGHT TO BE REMOVED
- RETURN AIR GRILLE TO REMAIN
- SUPPLY AIR GRILLE TO REMAIN

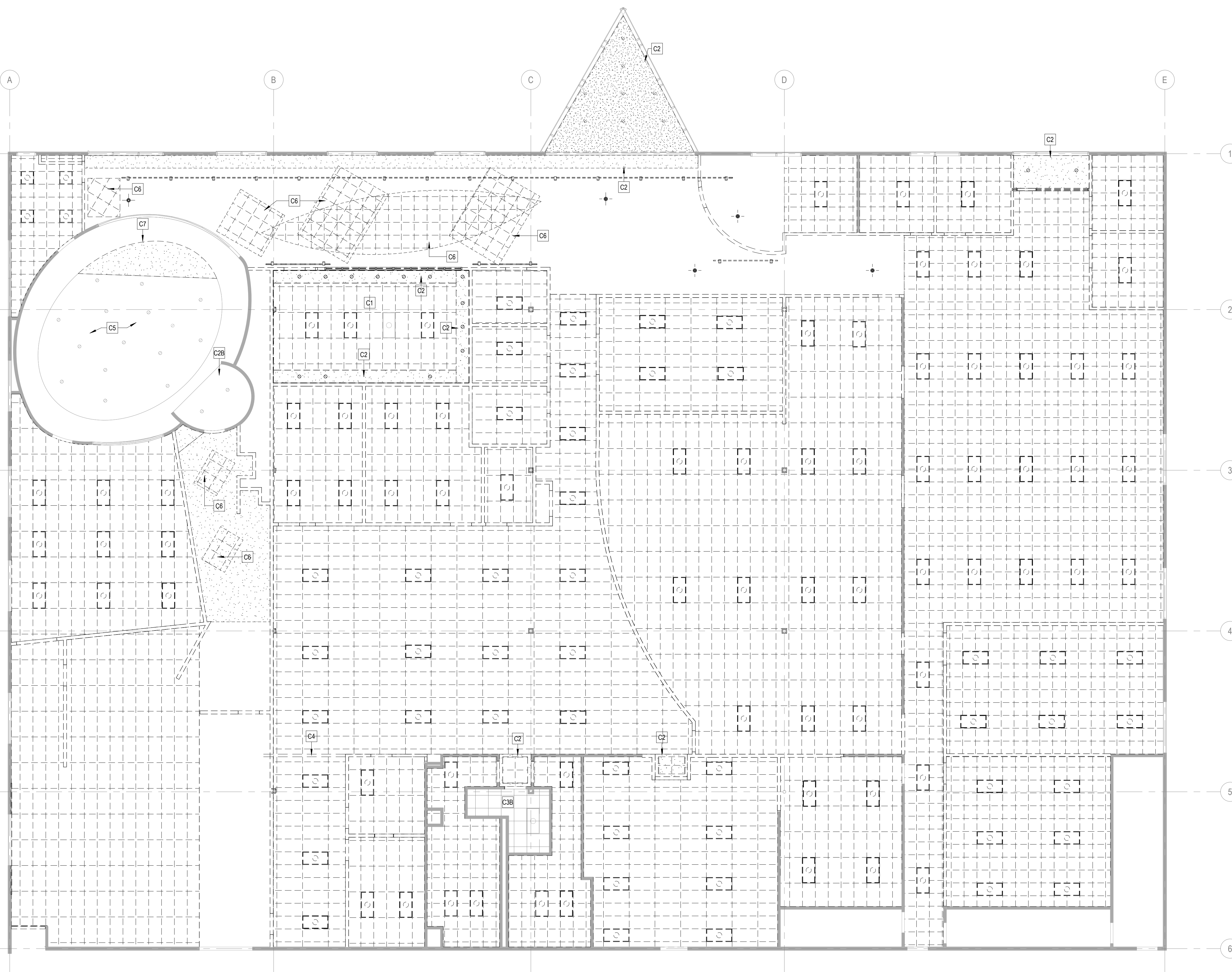
**DEMO GENERAL NOTES:**

1. PRIOR TO AND DURING ANY DEMOLITION THE CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED TO INSTALL ALL NEW WORK. REPAIR, PATCH AND FINISH EXISTING FLOORS, WALLS AND CEILINGS DESIGNATED TO REMAIN TO MATCH EXISTING CONDITIONS.
3. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICES AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
4. DURING THE BIDDING PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE SITE AND THE FACILITY TO DETERMINE EXISTING CONDITIONS. CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
5. ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED AND PLACED INTO PROPER OPERATIONS IN ALL MODES WITH THE ORIGINAL SYSTEM.
6. WHEN TEMPORARY SHORING AND BRACING IS REQUIRED, CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A PROFESSIONAL ENGINEER, LICENSED TO PRACTICE IN THE STATE WHERE THE PROJECT IS LOCATED, TO DESIGN AND PREPARE DETAILED DRAWINGS.
7. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS IN SERVICE IN ORDER TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
8. REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRIC PANELS, AND ANY OTHER MISCELLANEOUS EQUIPMENT NOT REQUIRED FOR THE NEW FACILITY.
9. REMOVE ALL RECESSED FLOOR BOXES, WALKER DUCTS, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
10. REMOVE ALL DOOR STOPS AT ASSOCIATED DOORS TO BE DEMOLISHED.
11. NO TOXIC SUBSTANCES HAVE BEEN NOTED ON THE SITE. SHOULD THE CONTRACTOR ENCOUNTER ANY ASBESTOS, ASBESTOS PRODUCTS, PCB'S OR OTHER TOXIC SUBSTANCES, THE CONTRACTOR SHOULD REPORT THIS IMMEDIATELY TO THE OWNER IN WRITING PRIOR TO CONTINUING WORK IN THIS AREA. WORK SHALL NOT BE RESUMED EXCEPT BY WRITTEN AUTHORIZATION OR AGREEMENT.
12. ALL CONSTRUCTION DEBRIS AND EXCESS MATERIAL IS TO BE REMOVED BY THE CONTRACTOR AT THE END OF EACH WORK DAY. THE JOB SITE IS TO BE LEFT SUFFICIENTLY CLEAN AS TO WARRANT OWNER'S APPROVAL.
13. REMOVE ALL CEILING SYSTEMS IN THEIR ENTIRETY, INCLUDING TILE, GRID, SUSPENSION WIRING, ANCHORS AND ALL ASSOCIATED APPURTENANCES.
14. CONTRACTOR SHALL SALVAGE ALL EXISTING CEILING TILES FOR POSSIBLE REUSE OR AS EXTRA STOCK FOR OWNER. SALVAGE ONLY UN-CUT TILES WITH NO VISIBLE DAMAGE. ONCE REMOVED, OWNER AND ARCHITECT WILL FIELD REVIEW AND APPROVE SALVAGED TILES PRIOR TO REUSE OR STORAGE.

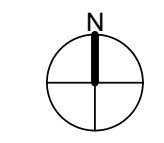
**DEMO PLAN REFERENCED NOTES:**

- FLOOR DEMOLITION KEYED NOTES**
- F1 REMOVE WALL BASE, RESILIENT TILE FLOORING, AND SUBSTRATE ADHESIVE COMPLETE.
  - F2 REMOVE WALL BASE, CARPETING, AND SUBSTRATE ADHESIVE COMPLETE.
  - F3 REMOVE WALL BASE COMPLETE.
  - F4 REMOVE METAL GRATE AND RAILINGS COMPLETE. PREP FLOOR SLAB DEPRESSION AND INFILL WITH CONCRETE TO E FLUSH WITH ADJACENT FLOOR SLAB.
  - F5 HATCH INDICATES PROPOSED AREA OF SLAB REMOVAL AS REQ. FRO PLUMBING (CIVIL WORK. BACKFILL AS REQUIRED AND INFILL PER DETAIL 8/A1/01)
- WALL DEMOLITION KEYED NOTES**
- W1 REMOVE GYP BD PARTITION AS REQUIRED FOR NEW OPENING.
  - W2 REMOVE GYP BD PARTITION TO EXTENTS SHOWN.
  - W3 REMOVE AND SALVAGE DOOR, FRAME, AND HARDWARE FOR RE-USE IN NEW WORK.
  - W4 REMOVE FURRING AND INFILL FROM EXISTING WINDOW COMPLETE. REPAIR/TOUCH UP WINDOW AS REQ. FOR NEW WORK.
  - W5 REMOVE STOREFRONT SYSTEM AND MTL STUD PARTITION ABOVE COMPLETE.
  - W6 REMOVE EXTERIOR DOOR/FRAME COMPLETE PREP ROUGH OPENING FOR NEW WORK.
- CEILING DEMOLITION KEYED NOTES**
- C1 REMOVE SECOND UPPER GYP CEILING INSTALLED ABOVE EXISTING SAT CEILING / GYP SOFFITS COMPLETE.
  - C2 REMOVE GYP BD, CEILINGS AND BLUHHEAD COMPLETE.
  - C2A REMOVE GYP BD CEILING TO EXTENTS SHOWN.
  - C2B EXISTING GYP. BD, CEILING TO REMAIN REMOVE EXISTING RECESSED LIGHT FIXTURES COMPLETE AND PREP OPENING AS REQUIRED FOR NEW LIGHT FIXTURES.
  - C3A REMOVE ACOUSTIC CEILING TILE SYSTEM TO EXTENTS SHOWN.
  - C3B EXISTING CEILING TILE SYSTEM TO REMAIN.
  - C4 REMOVE PRIVACY CURTAINS AND ASSOCIATED TRACKS.
  - C5 CURVED GYP BD CLOUD CEILING. REMOVE EXISTING RECESSED LIGHT FIXTURES COMPLETE AND PREP OPENINGS AS REQ. FOR NEW LIGHT FIXTURES REMOVE.
  - C6 CLOUD CEILING SYSTEM TO BE REMOVED COMPLETE.
  - C7 REMOVE PORTION OF EXISTING GYP. BD, CEILING AS REQUIRED TO ACCOMMODATE HVAC WORK SEE HVAC DRAWINGS
- MISCELLANEOUS DEMOLITION KEYED NOTES**
- M1 REMOVE COUNTERTOP AND BASE CABINETS COMPLETE.
  - M2 REMOVE UPPER CABINETS/SHOULDER COMPLETE.
  - M3 REMOVE SINK AND ASSOCIATED UTILITIES COMPLETE.
  - M4 REMOVE DISPLAY BOARD COMPLETE.
  - M5 REMOVE FULL HEIGHT CABINETS COMPLETE.
  - M6 REMOVE WALL MOUNTED SHELVES COMPLETE.
  - M7 REMOVE WATER SHUT OFF VALVE AND ASSOCIATED PIPING COMPLETE. (REFER TO CIVIL AND PLUMBING)
  - M8 (NOT USED)
  - M9 REMOVE DRINKING FOUNTAIN AND ASSOCIATED PLUMBING COMPLETE. FOR RE-LOCATION IN NEW WORK.
  - M10 REMOVE TECHNOLOGY RACK COMPLETE (REFER TO TECH)
  - M11 REMOVE DOOR. FRAME EXISTING TO REMAIN.

\*PROTECT ALL ITEMS NOTED BELOW THROUGH-OUT DEMOLITION AND NEW CONSTRUCTION.  
 \*\*REMOVE AND REINSTALL AS REQUIRED FOR NEW WORK.



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







ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE  
 UNIVERSITY CENTER AT MCC**

222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

**FLOOR PLAN & SECTION SYMBOLS LEGEND:**

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

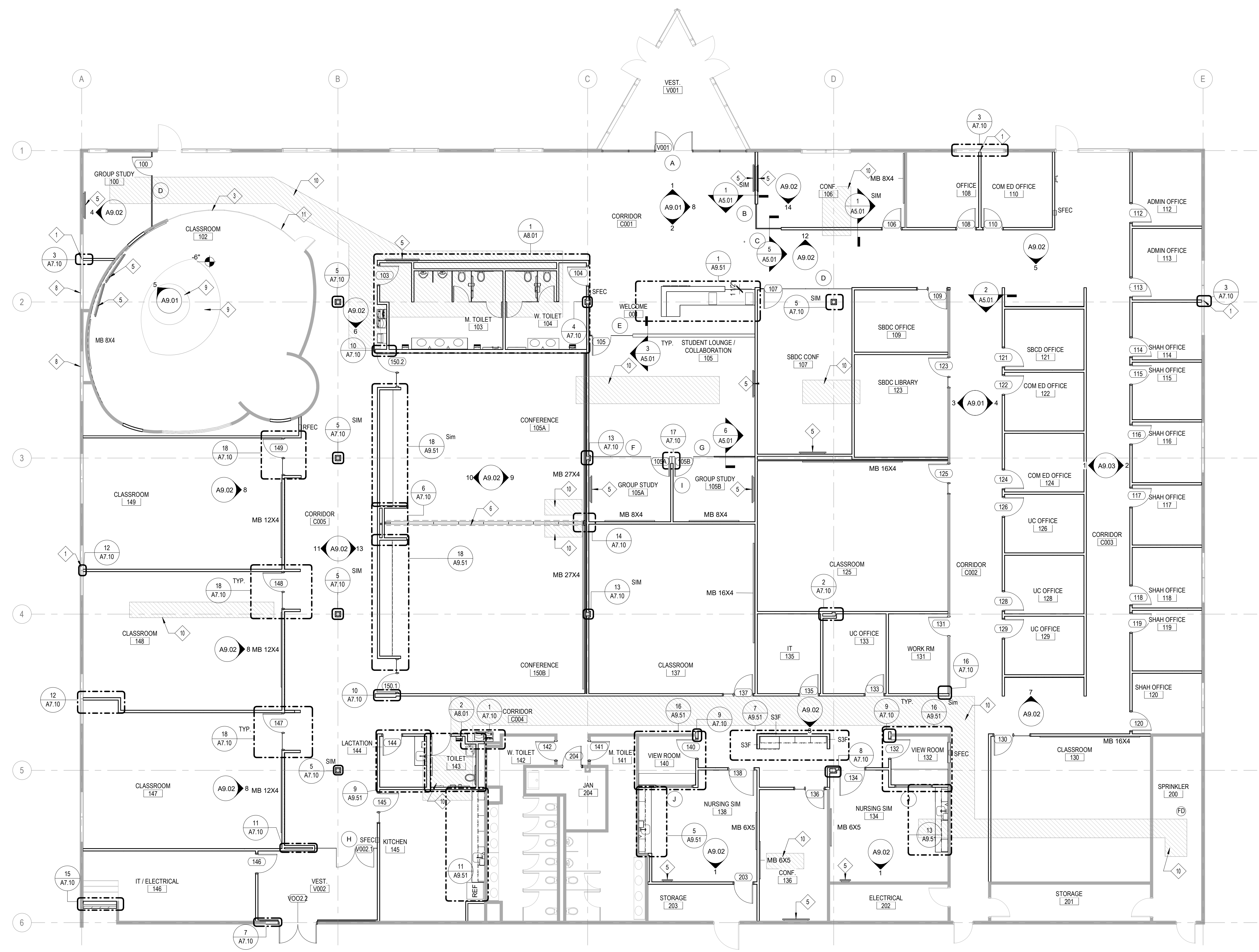
- GREYTOPE LINES DEPICT EXISTING CONSTRUCTION
- EXISTING DOOR
- NEW WALL CONSTRUCTION
- NEW DOOR
- ROOM NAME [ 101 ]
- ROOM TAG
- DOOR / FRAME TAG
- WINDOW TAG
- PLAN AND SECTION DETAIL CALLOUT
- SECTION CALLOUT
- ELEVATION CALLOUT
- DATUM TAG
- NEW WORK REFERENCED NOTES
- FLOOR DRAIN - REFER TO PLUMBING
- EXTERIOR HOSE BIB
- WALL MOUNT FIRE EXTINGUISHER CABINET  
 FECS SEMI-RECESSED EXTINGUISHER CABINET  
 SFEC RECESSED EXTINGUISHER CABINET
- LENGTH SPECIFIED MARKERBOARD - (REFER TO SPECS)

**FLOOR PLAN GENERAL NOTES:**

1. FINISH FLOOR ELEVATION OF 0'-0" = XXX'X" USGS AS NOTED ON SHEET C.X.XX.
2. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0".
3. REFER TO CODE PLANS ON SHEETS AC.10 THRU A0.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
4. DO NOT SCALE DRAWINGS.
5. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
6. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
8. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
9. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

**FLOOR PLAN REFERENCED NOTES:**

1. ALIGN CENTER OF WALL TO WINDOW MULLION. V.I.F.
2. (NOT USED)
3. PROVIDE CONT. ACOUSTIC GASKET IN ALL OPEN JOINTS IN EXISTING GLASS PARTITION
4. (NOT USED)
5. WALL MOUNTED MONITOR (REFER TO TECH)
6. FOLDING PARTITION SYSTEM (REFER TO SPECS)
7. (NOT USED)
8. PROVIDE FROSTED VINYL WINDOW FILM AT INTERIOR FACE OF EXISTING EXTERIOR WINDOWS INDICATED
9. DEPRESSED SEATING AREA EXISTING TO REMAIN
10. HATCH INDICATES BACKFILL AS REQUIRED AND INFILL PER DETAIL 8/A5.01
11. PATCH EXISTING METAL STUD/GYP BD. PARTITION TO WATCH EXISTING AT REMOVAL OF EXISTING DUCTWORK



1 OVERALL FLOOR PLAN  
 1/8" = 1'-0"

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**OVERALL FLOOR PLAN**

SHEET NUMBER:  
**A1.11**



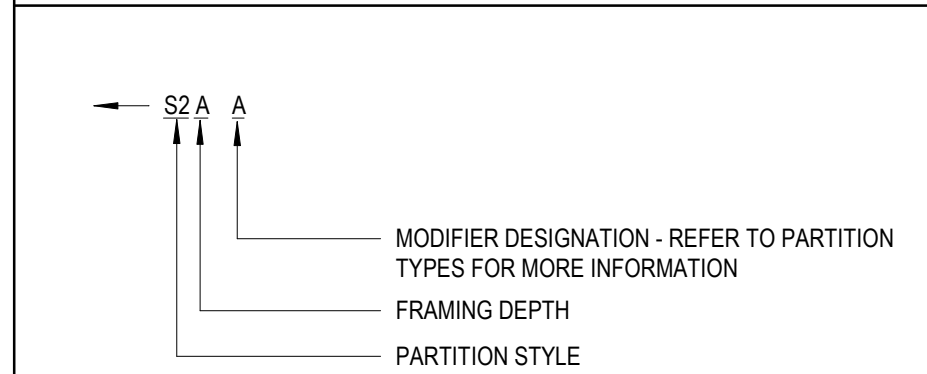
ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-PP-T-ENGINEERS  
**HRG GREEN ENGINEERING GROUP, LLC**  
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 SCHAUMBURG, IL 60173  
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 P: 815.385.1778 F: 815.385.1781

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**UNIVERSITY CENTER AT MCC**  
 222 E CHURCH ST  
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 DKA PROJECT NO: 22-050

**PARTITION TYPE LEGEND**

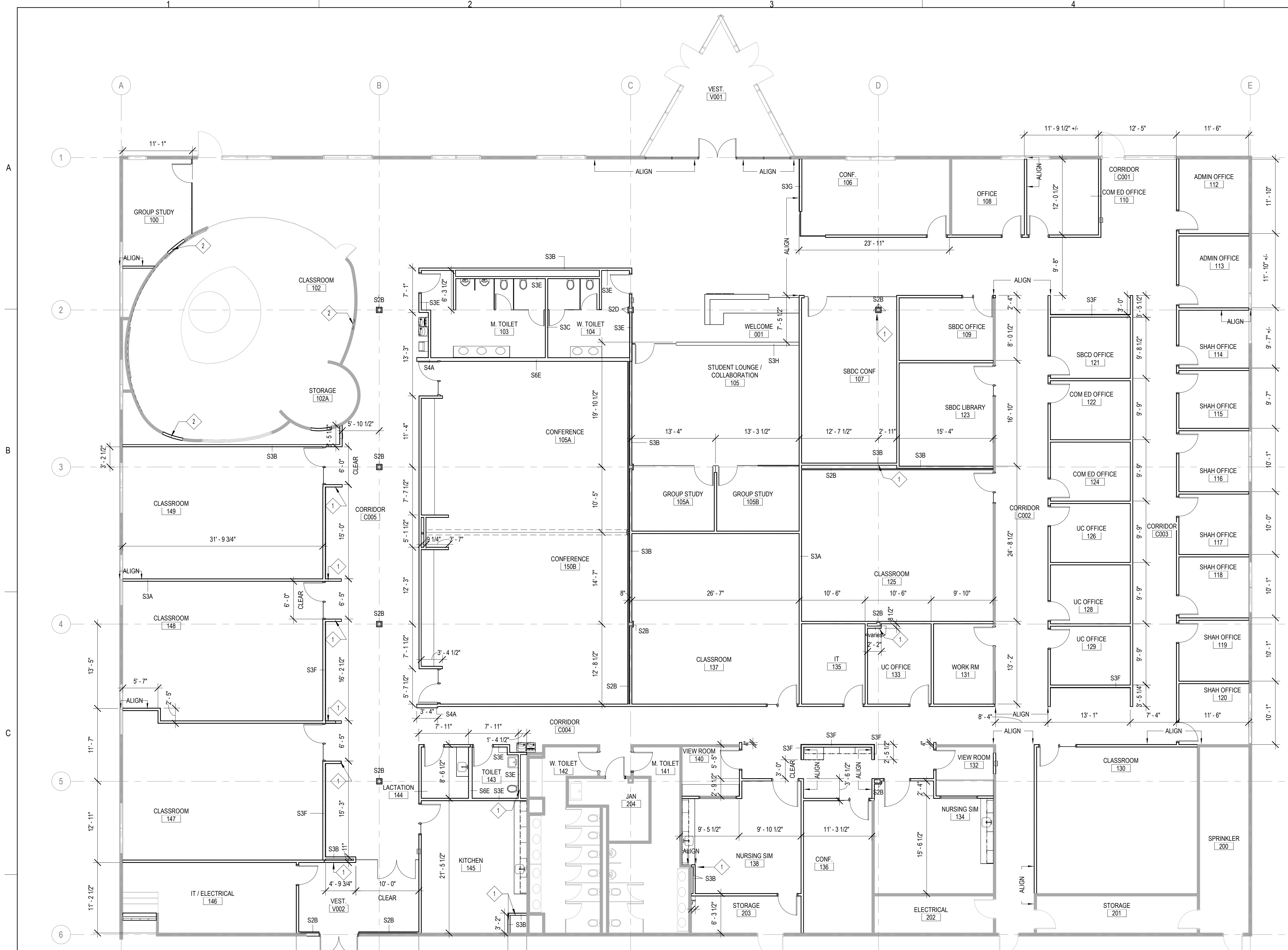


**PARTITION TYPE GENERAL NOTES:**

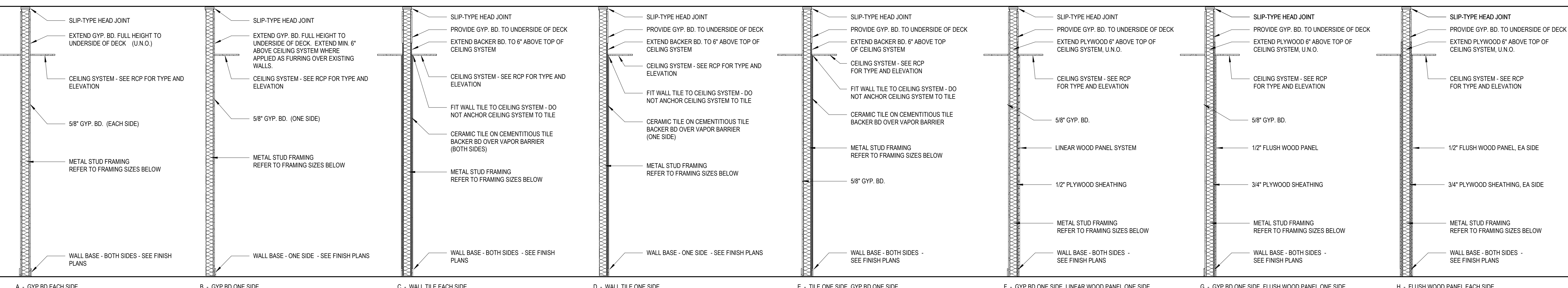
- ALL INTERIOR PARTITIONS SHALL BE TYPE S3A (U.N.O.)
- ALL GYP BD ENCLOSURES AROUND COLUMNS SHALL BE TYPE S2B (U.N.O.)
- PROVIDE SOLID FIRE RETARDANT TREATED WOOD BLOCKING, FLAT METAL STRAPS, OR METAL BACKING PLATES AT ALL WALL MOUNTED FIXTURES AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO, DOOR STOPS, MILLWORK, DIGITAL DISPLAYS, VISUAL DISPLAY BOARDS, TOILET PARTITIONS, AND SIMILAR CONDITIONS.
- PROVIDE MOISTURE RESISTANT GYP BD AT ALL PLUMBING PARTITIONS NOT SCHEDULED TO RECEIVE TILE.
- SEE SPECIFICATIONS FOR ORIENTATION OF GYP BD PANELS, SIZING, AND SPACING OF METAL STUD FRAMING.
- SEE INTERIOR ELEVATIONS FOR ANY GYP BD REVEAL PATTERNS.
- FIRE RESISTANCE-RATED SEPARATIONS
  - SEE CODE COMPLIANCE PLANS FOR LOCATIONS AND TYPES OF FIRE RESISTANCE-RATED SEPARATIONS.
  - AT SMOKE PARTITIONS, FIRE PARTITIONS AND FIRE BARRIERS, WALL ASSEMBLY CONSTRUCTION SHALL EXTEND FROM TOP OF FLOOR TO THE UNDERSIDE OF THE FLOOR, ROOF SLAB, OR DECK ABOVE.
  - ALL PARTITIONS SHALL HAVE THE FOLLOWING PERMANENTLY AFFIXED MARKINGS AND IDENTIFICATION:
    - 12" HIGH LETTERING, INDICATING RATING AND FIRE RESISTANCE RATED PARTITION TYPE, I.E. "2-HR FIRE WALL" OR "1-HR FIRE BARRIER", AND SHALL ALSO INCLUDE THE FOLLOWING SUFFIX: "PROTECT ALL OPENINGS AND PENETRATIONS"
    - LOCATE LETTERING ABOVE ACCESSIBLE CEILINGS AT INTERVALS NOT TO EXCEED 30'-0". THERE SHOULD BE A MINIMUM OF ONE MARKING PER WALL, PER ROOM.

**FLOOR PLAN REFERENCED NOTES:**

- WALLS INDICATED ARE ONLY REQUIRED TO EXTEND 6" BEYOND FINISHED CEILING.
- WELL OPENING IN EXISTING CURVED WALL WITH GYP BD ON INT. STUD TO MATCH EXISTING CONSTRUCTION.



**1 DIMENSION PLAN**  
 1/8" = 1'-0"



- A - GYP BD EACH SIDE**  
 CONSTRUCT PER UL 1419 AT SMOKE AND 1-HR FIRE RESISTANCE RATED PARTITIONS
  - B - GYP BD ONE SIDE**
  - C - WALL TILE EACH SIDE**
  - D - WALL TILE ONE SIDE**
  - E - TILE ONE SIDE, GYP BD ONE SIDE**
  - F - GYP BD ONE SIDE, LINEAR WOOD PANEL ONE SIDE**
  - G - GYP BD ONE SIDE, FLUSH WOOD PANEL ONE SIDE**
  - H - FLUSH WOOD PANEL EACH SIDE**
- S2A 2-1/2" METAL STUD FRAMING
  - S3A 3-5/8" METAL STUD FRAMING
  - S4A 6" METAL STUD FRAMING
  - S2B 2-1/2" METAL STUD FRAMING
  - S3B 3-5/8" METAL STUD FRAMING
  - S2C 2-1/2" METAL STUD FRAMING
  - S3C 3-5/8" METAL STUD FRAMING
  - S2D 2-1/2" METAL STUD FRAMING
  - S3D 3-5/8" METAL STUD FRAMING
  - S2E 2-1/2" METAL STUD FRAMING
  - S3E 3-5/8" METAL STUD FRAMING
  - S6E 6" METAL STUD FRAMING
  - S3F 3-5/8" METAL STUD FRAMING
  - S3G 3-5/8" METAL STUD FRAMING
  - S3H 3-5/8" METAL STUD FRAMING

**2 WALL PARTITION TYPES**  
 1/2" = 1'-0"

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**DIMENSION PLAN**

SHEET NUMBER:  
**A1.12**



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE**  
**UNIVERSITY CENTER AT MCC**  
 222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

**RCP SYMBOLS LEGEND:**

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- CEILING TYPE
- CEILING ELEVATION A/F/F
- SUSPENDED ACOUSTICAL TILE CEILING
- GYPSUM BOARD CEILING OR SOFFIT
- LINEAR WOOD SLAT CEILING SYSTEM
- WOOD PANEL BAFFLES
- RECESSED 2x4' LIGHT FIXTURE
- RECESSED 2x2' FIXTURE
- SURFACE MOUNTED LIGHT LINEAR FIXTURE
- SMALL PENDANT LIGHT FIXTURE
- PENDANT LIGHT MOUNT FIXTURE
- RECESSED DOWN LIGHT
- PENDANT LIGHT MOUNT LINEAR FIXTURE
- SPRINKLER HEAD
- RECESSED LIGHT LINEAR FIXTURE
- EMERGENCY LIGHT
- MANUAL PROJECTOR
- CEILING MOUNTED PROJECTOR
- SOLID HATCH DENOTES EXIT SIGN FACE PLATE
- DIRECTION OF EGRESS
- EXIT SIGN, WALL MOUNTED
- HEAT DETECTOR
- SMOKE DETECTOR
- FIRE ALARM DEVICE
- SPEAKER
- CLOSED CIRCUIT CAMERA
- OCCUPANT SENSOR
- WIRELESS ACCESS POINT
- LIGHT SENSOR
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE
- LINEAR DIFFUSER - SUPPLY/RETURN
- ACCESS PANEL
- ELECTRIC UNIT HEATER (REFER TO MECHELEC)

**RCP GENERAL NOTES:**

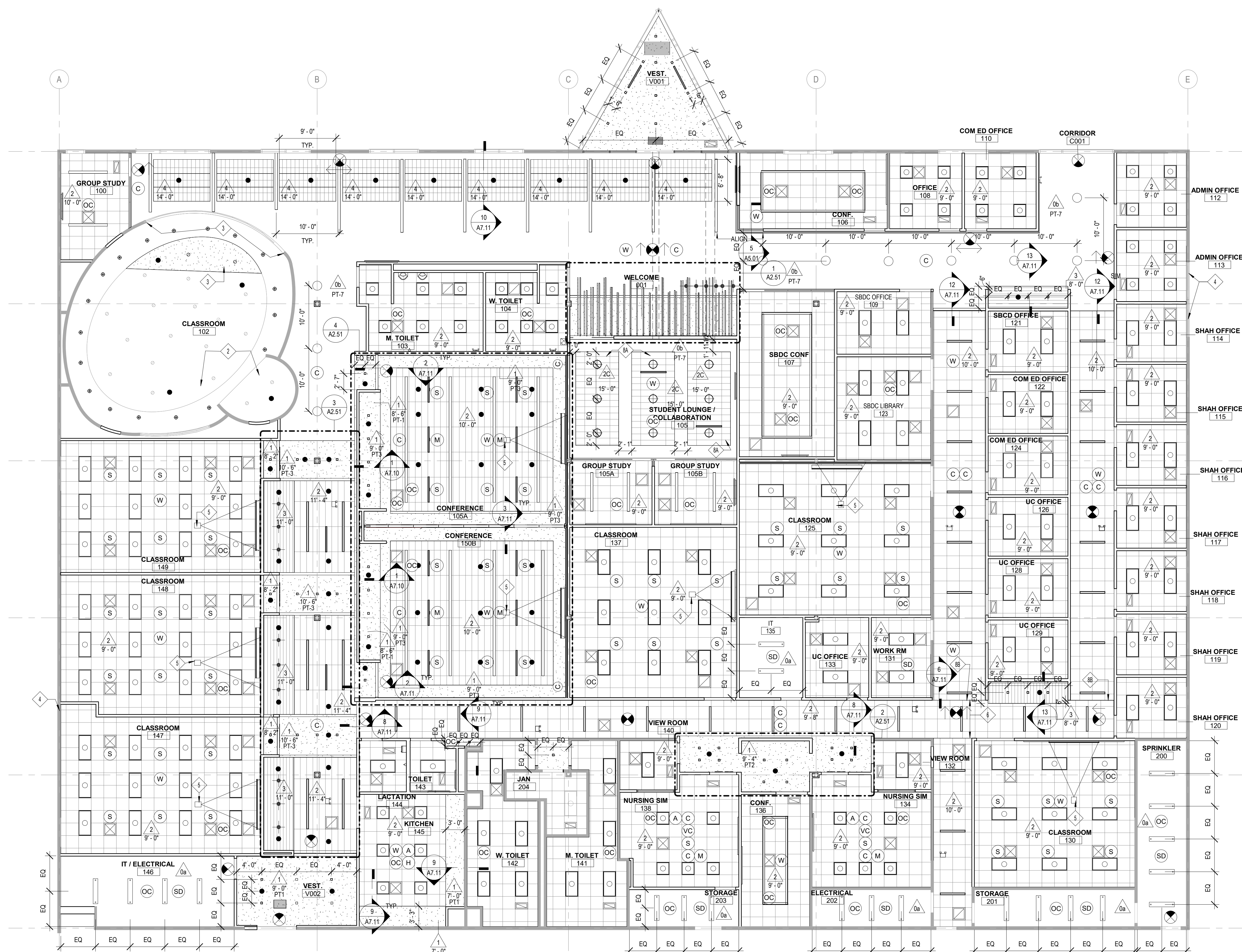
1. ALL HEATING, VENTILATION, ELECTRICAL, PLUMBING AND FIRE PROTECTION ITEMS ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS FOR REFERENCE AND COORDINATION ONLY. REFER TO HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ACTUAL QUANTITIES. IN CASE OF CONFLICT THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN LOCATION OF THESE ITEMS.
2. IN AREAS THAT DO NOT HAVE ARCHITECTURAL REFLECTED CEILING PLANS YET REQUIRE NEW ITEMS TO BE INSTALLED IN OR ABOVE THE CEILING PLANE, CONTRACTOR SHALL REMOVE AND REINSTALL, REPLACE OR MODIFY EXISTING CEILING CONSTRUCTION TO ACCOMMODATE NEW WORK. ANY NEW CEILING AREAS SHALL MATCH EXISTING ADJACENT FINISHES.
3. CENTER ALL FIXTURES IN CEILING TILES AND FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LOCATION. ALIGN ALL FIXTURES IN BOTH DIRECTIONS OF CEILING TILE. (UNO)
4. CENTER ALL SPRINKLER HEADS IN CEILING TILES.
5. ALL GYP. BD. CEILINGS TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED ON PLANS
6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 4" MIN. BEYOND FINISHED CEILING ABOVE UNO.

**RCP REFERENCED NOTES:**

1. OPEN TO DECK
2. EXISTING CEILING TO REMAIN FOR EXTENTS INDICATED PAINT PT-1. REPLACE EXISTING LIGHTING IN PLACE WITH NEW LIGHT FIXTURES (REFER TO ELEC.)
3. PROVIDE NEW CURVED GYP CEILING IN/FL AS REQUIRED FOR MECH WORK ABOVE (REFER TO MECH) GYP CEILING CURVES AND SHAPE TO MATCH EXISTING FOR FLUSH UNIFORM FINISH PAINT (PT-1)
4. MANUAL ROLLER SHADES (REFER TO SPECS)
5. CEILING MOUNTED PROJECTOR (REFER TO ELEC/TECH)
6. PATCH CURVED GYP BD WALL AS REQUIRED TO IN/FL WALL AREA LEFT OPEN BY MECH DEMO (REFER TO MECH)
7. (NOT USED)
8. 4" PERIMETER TRIM
  - A. CUSTOM COLOR (REFER TO SPECS)
  - B. WHITE

**CEILING TYPES:**

TYPE	DESCRIPTION
0a	EXPOSED EXISTING METAL DECK, NO PAINT
0b	EXPOSED EXISTING METAL DECK - PAINT ALL STRUCTURE, DUCT, PIPING, ETC. AS INDICATED
1	PAINTED GYP BOARD ON METAL FRAMING
2	2X2 ACOUSTICAL PANEL SYSTEM
2C	SCORED ACOUSTICAL PANEL CLOUD SYSTEM
3	LINEAR WOOD PANEL SYSTEM
4	PERFORATED WOOD TILE CEILING



1 REFLECTED CEILING PLAN  
 1/8" = 1'-0"

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**REFLECTED CEILING PLAN**

SHEET NUMBER:  
**A2.11**



ARCHITECT OF RECORD  
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**MCHENRY COUNTY COLLEGE  
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 222 E CHURCH ST  
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 DKA PROJECT NO: 22-050

**RCP SYMBOLS LEGEND:**

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- CEILING TYPE
- CEILING ELEVATION A/F
- SUSPENDED ACOUSTICAL TILE CEILING
- GYPSUM BOARD CEILING OR SOFFIT
- LINEAR WOOD SLAT CEILING SYSTEM
- WOOD PANEL BAFFLES
- RECESSED 2x4 LIGHT FIXTURE
- RECESSED 2x2 FIXTURE
- SURFACE MOUNTED LIGHT LINEAR FIXTURE
- SMALL PENDANT LIGHT FIXTURE
- PENDANT LIGHT MOUNT FIXTURE
- RECESSED DOWN LIGHT
- PENDANT LIGHT MOUNT LINEAR FIXTURE
- SPRINKLER HEAD
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- SUPPLY AIR GRILLE
- LINEAR DIFFUSER - SUPPLY/RETURN
- ACCESS PANEL
- ELECTRIC UNIT HEATER (REFER TO MECHELEC)

**RCP GENERAL NOTES:**

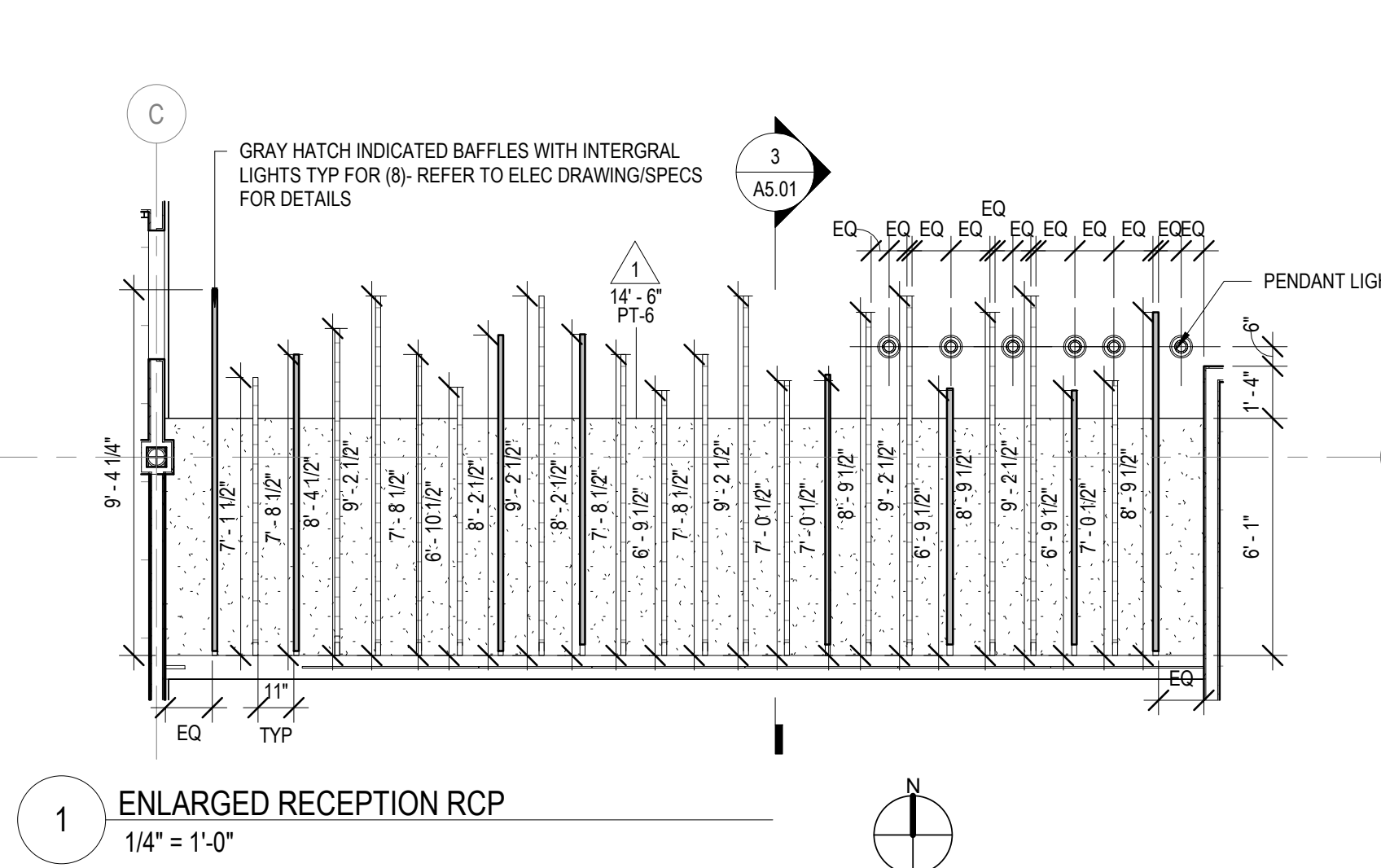
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6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 4" MIN. BEYOND FINISHED CEILING ABOVE U.I.C.O.

**RCP REFERENCED NOTES:**

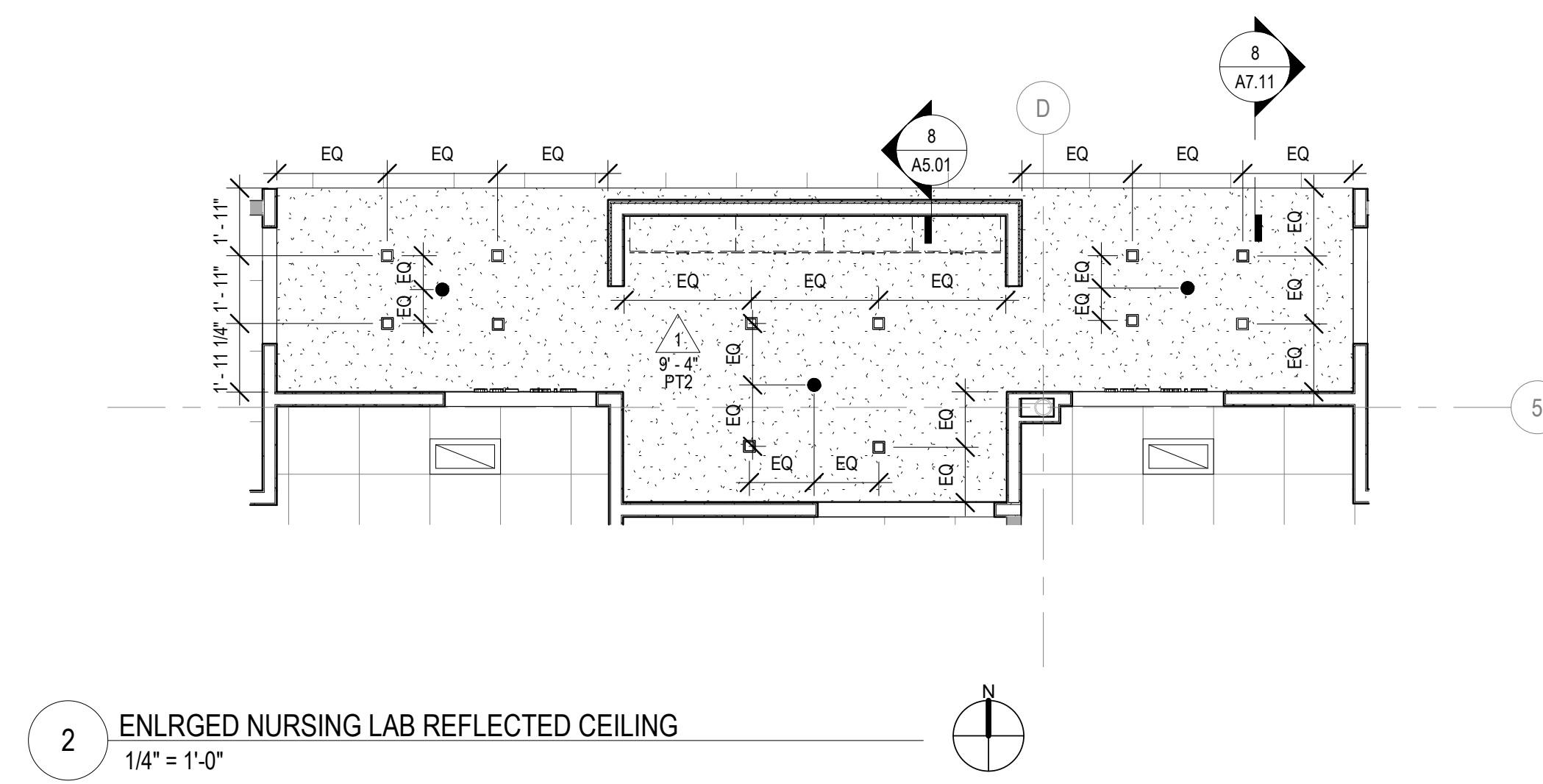
1. OPEN TO DECK
2. EXISTING CEILING TO REMAIN FOR EXTENTS INDICATED PAINT PT-1. REPLACE EXISTING LIGHTING IN PLACE WITH NEW LIGHT FIXTURES (REFER TO ELEC.)
3. PROVIDE NEW CURVED GYP CEILING INFILL AS REQUIRED FOR MECH WORK ABOVE (REFER TO MECH) GYP CEILING CURVES AND SHAPE TO MATCH EXISTING FOR FLUSH UNIFORM FINISH PAINT (PT-1)
4. MANUAL ROLLER SHADES (REFER TO SPECS)
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7. (NOT USED)
8. 4" PERIMETER TRIM
  - A. CUSTOM COLOR (REFER TO SPECS)
  - B. WHITE

**CEILING TYPES:**

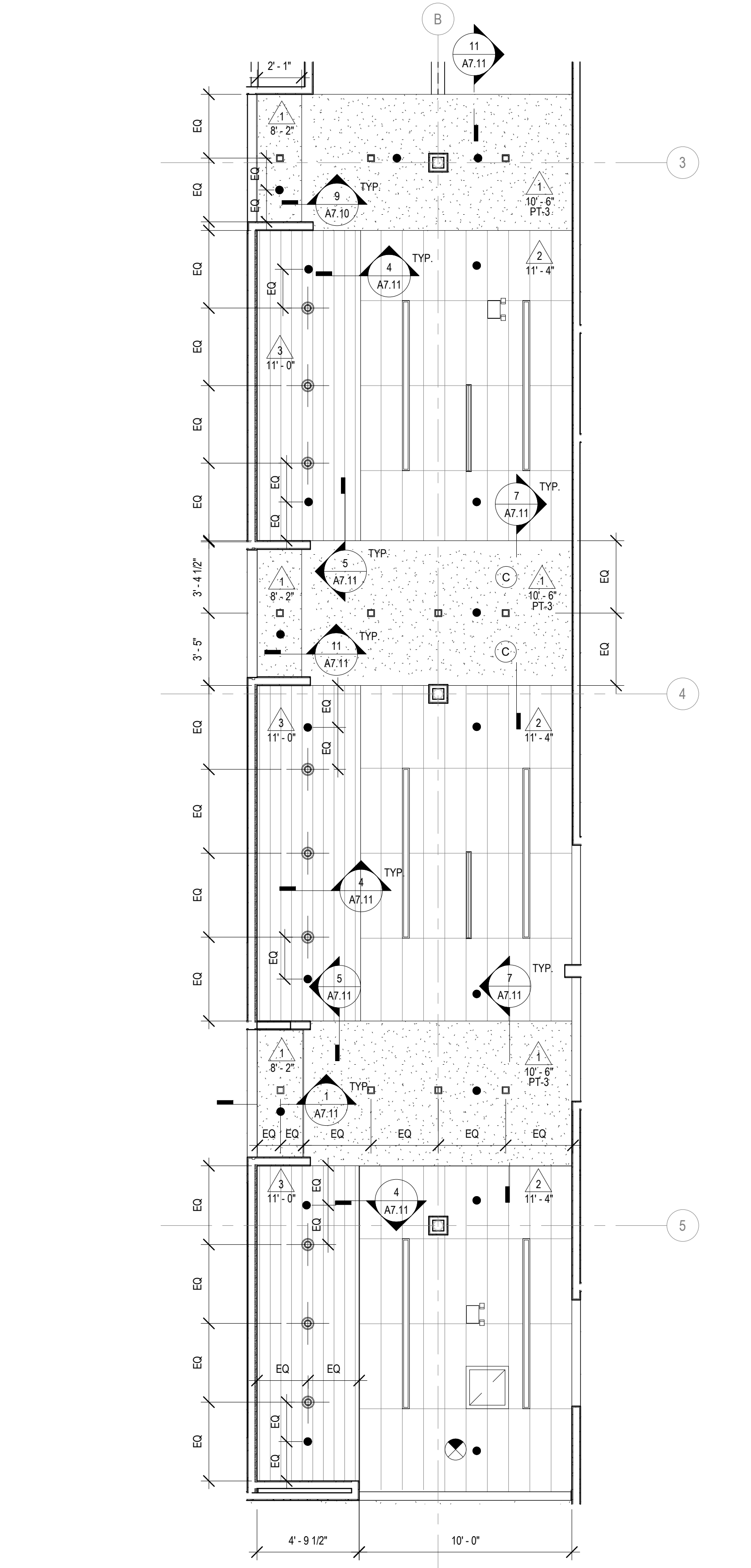
TYPE	DESCRIPTION
0a	EXPOSED EXISTING METAL DECK, NO PAINT INDICATED
0b	EXPOSED EXISTING METAL DECK - PAINT ALL STRUCTURE, DUCT, PIPING, ETC. AS INDICATED
1	PAINTED GYP BOARD ON METAL FRAMING
2	2X2 ACOUSTICAL PANEL SYSTEM
2C	SCORED ACOUSTICAL PANEL CLOUD SYSTEM
3	LINEAR WOOD PANEL SYSTEM
4	PERFORATED WOOD TILE CEILING



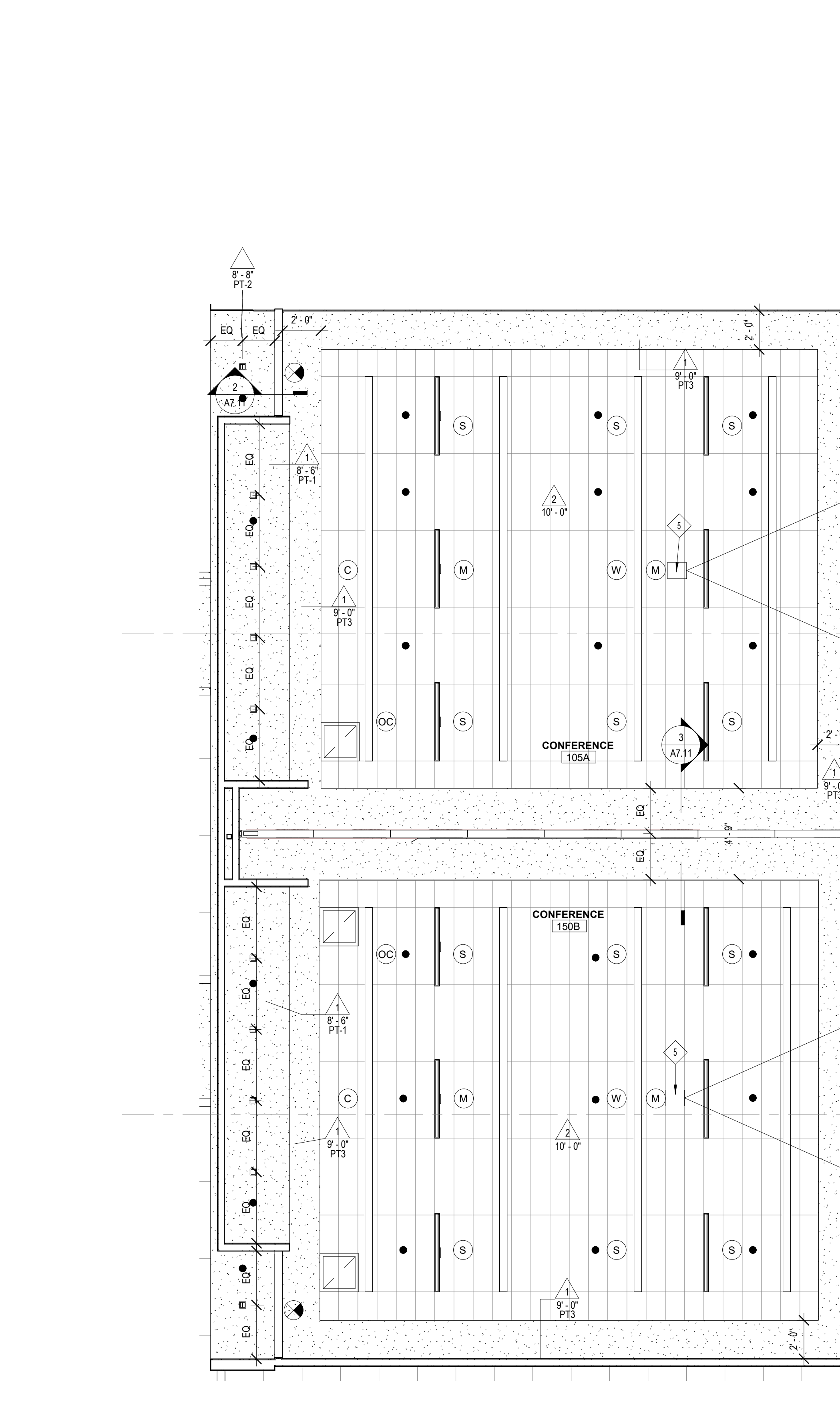
1 ENLARGED RECEPTION RCP  
1/4" = 1'-0"



2 ENLARGED NURSING LAB REFLECTED CEILING  
1/4" = 1'-0"



3 ENLARGED C005 REFLECTED CEILING PLAN  
1/4" = 1'-0"



4 ENLARGED C005 REFLECTED CEILING PLAN 1  
1/4" = 1'-0"

KEY PLAN:

SHEET STATUS: 9.19.23  
ISSUED FOR BIDS

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
ENLARGED REFLECTED CEILING PLAN

SHEET NUMBER:

**A2.51**



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
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MEP-FP-T-ENGINEERS  
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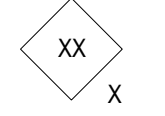
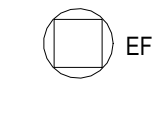
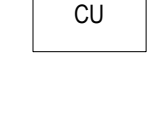

CIVIL ENGINEERS  
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 UNIVERSITY CENTER AT MCC**

222 E CHURCH ST  
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 DKA PROJECT NO: 22-050

**ROOF PLAN LEGEND:**

NOTE: REFER TO M.E.P.F.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

-  ROOF AREA NUMBER  
ROOF AREA TYPE
-  EXHAUST FAN
-  CONDENSER UNIT
-  PIPE PENETRATION

**ROOF SYSTEM TYPES:**

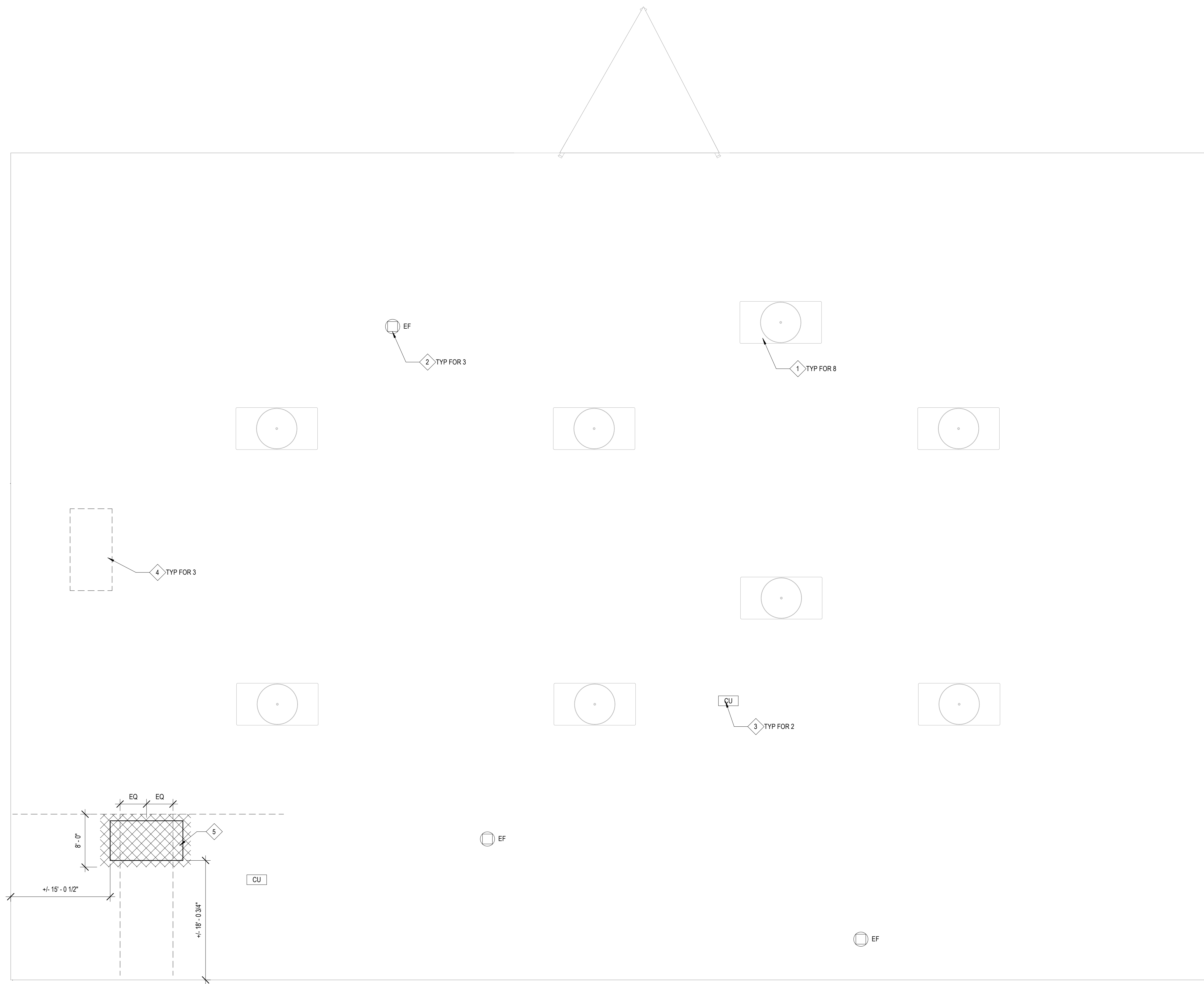
ROOF TYPE A: FLAT ROOF DECK - EXISTING TO REMAIN

1. VAPOR RETARDER - TAPE ALL JOINTS AND PERIMETER CONDITIONS.
2. ROOF INSULATION.
3. TOP LAYER OF TAPERED ROOF INSULATION.
4. MEMBRANE.
5. SHEET FLASHING.
6. PREFINISHED METAL COPINGS, END WALL FLASHING, COUNTERFLASHING, ETC.

\*CONTRACTOR TO FIELD VERIFY EXISTING ROOF CONDITIONS AND PROVIDE ACCEPTABLE INFILLS / TIE-INS AT PENETRATIONS NOTED TO WORK WITH EXISTING ROOF WARRANTY.  
 \*\*REFER TO MEP DRAWINGS FOR ADDITIONAL EQUIPMENT INFORMATION.

**ROOF PLAN GENERAL NOTES:**

1. EXISTING RTU TO REMAIN (REFER TO MECH)
2. NEW EXHAUST FAN (REFER TO MECH)
3. NEW CONDENSING UNIT (REFER TO MECH)
4. EXISTING RTU TO BE REMOVED - PROVIDE INSULATED CAPS AT ALL CURBS / PENETRATIONS TO PROVIDE A COMPLETE SEALED AND INSULATED CONDITION AT EXISTING ROOF
5. ROOF-MOUNTED STAND-BY GENERATOR - PROVIDE NON-PENETRATING ROOF-RAILS AS REQUIRED TO MOUNT THE GENERATOR - INSTALL CENTERED ON THE BEAMS BELOW AND NO MORE THAN 1/3 THE OVERALL BEAM LENGTH FROM PRIMARY GIRDER AS INDICATED ON THE DRAWINGS (REFER TO ELEC).



**1 ROOF PLAN**  
 1/8" = 1'-0"

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**ROOF PLAN**

SHEET NUMBER:  
**A3.10**

**MCHENRY COUNTY COLLEGE  
 UNIVERSITY CENTER AT MCC**

222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23

**ISSUED FOR BIDS**

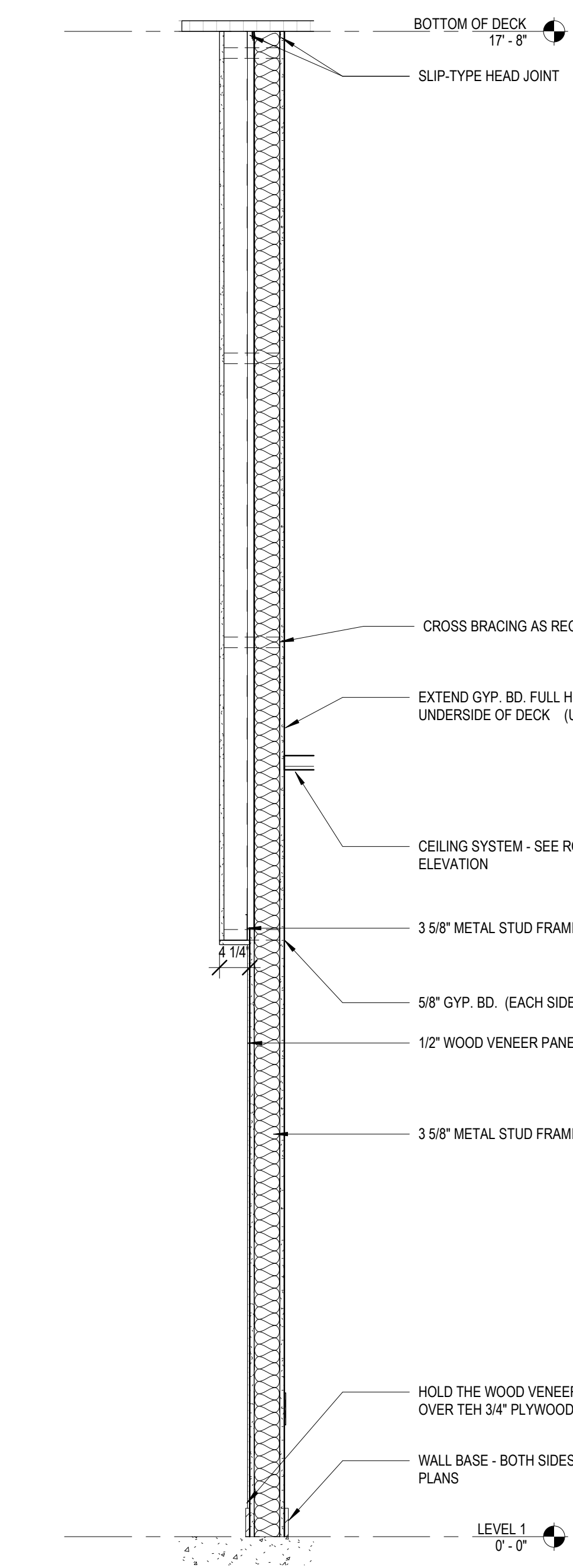
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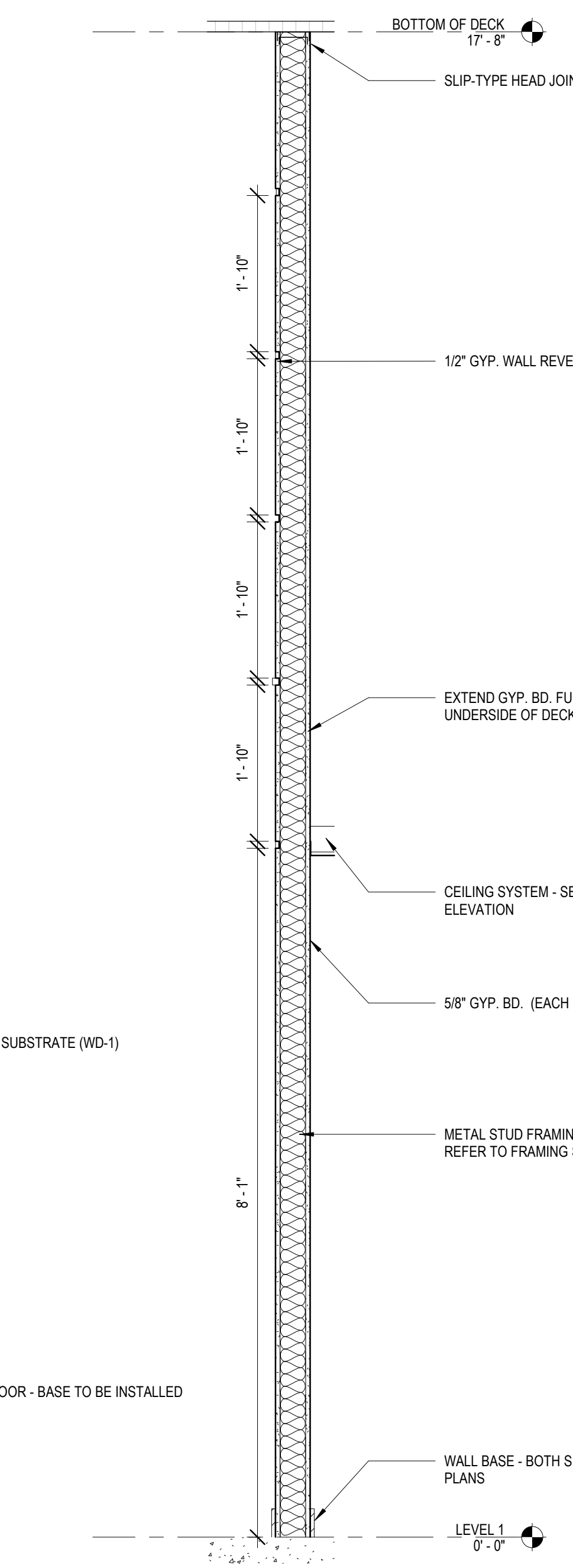
**SECTION DETAILS**

SHEET NUMBER:

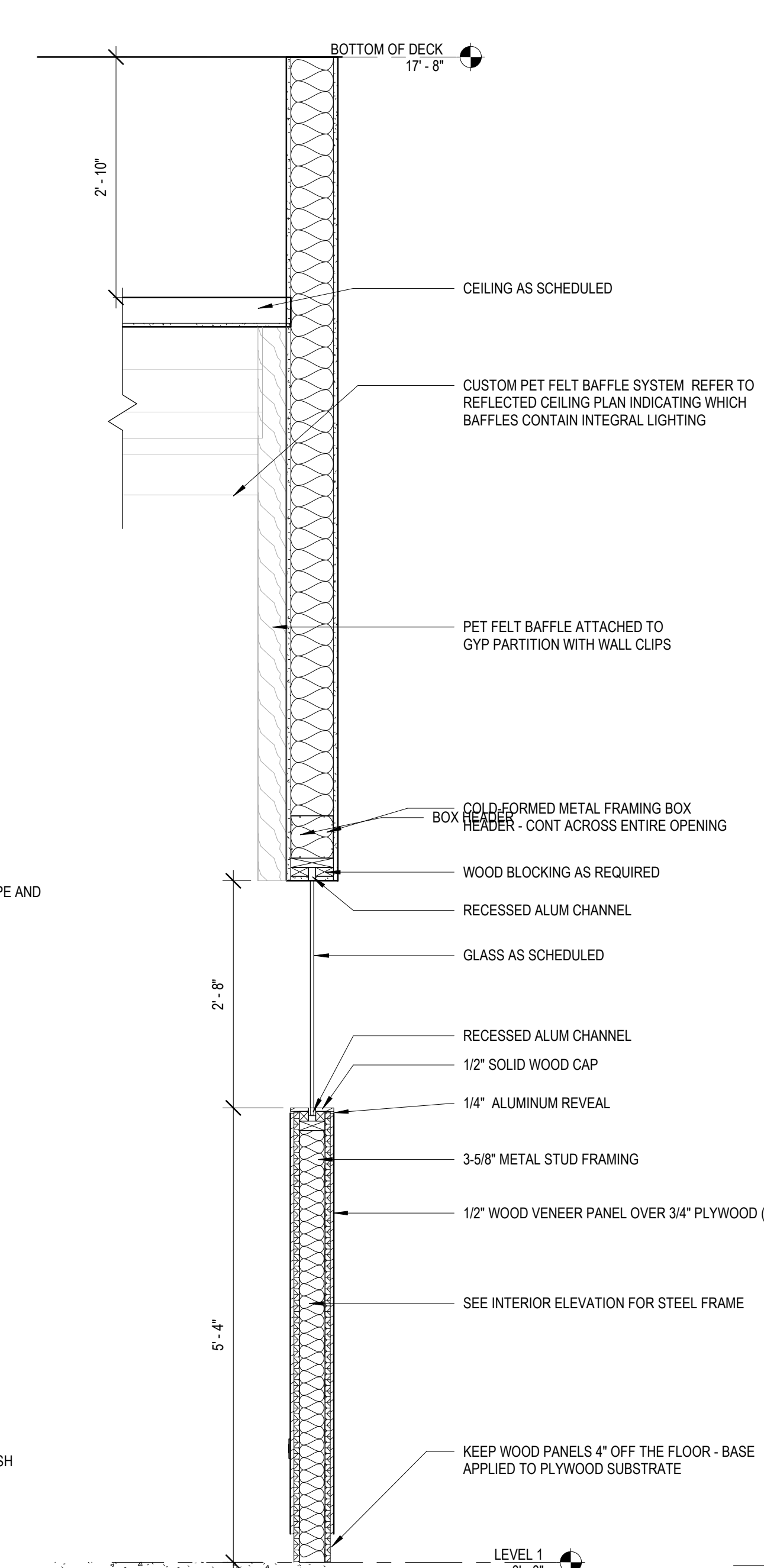
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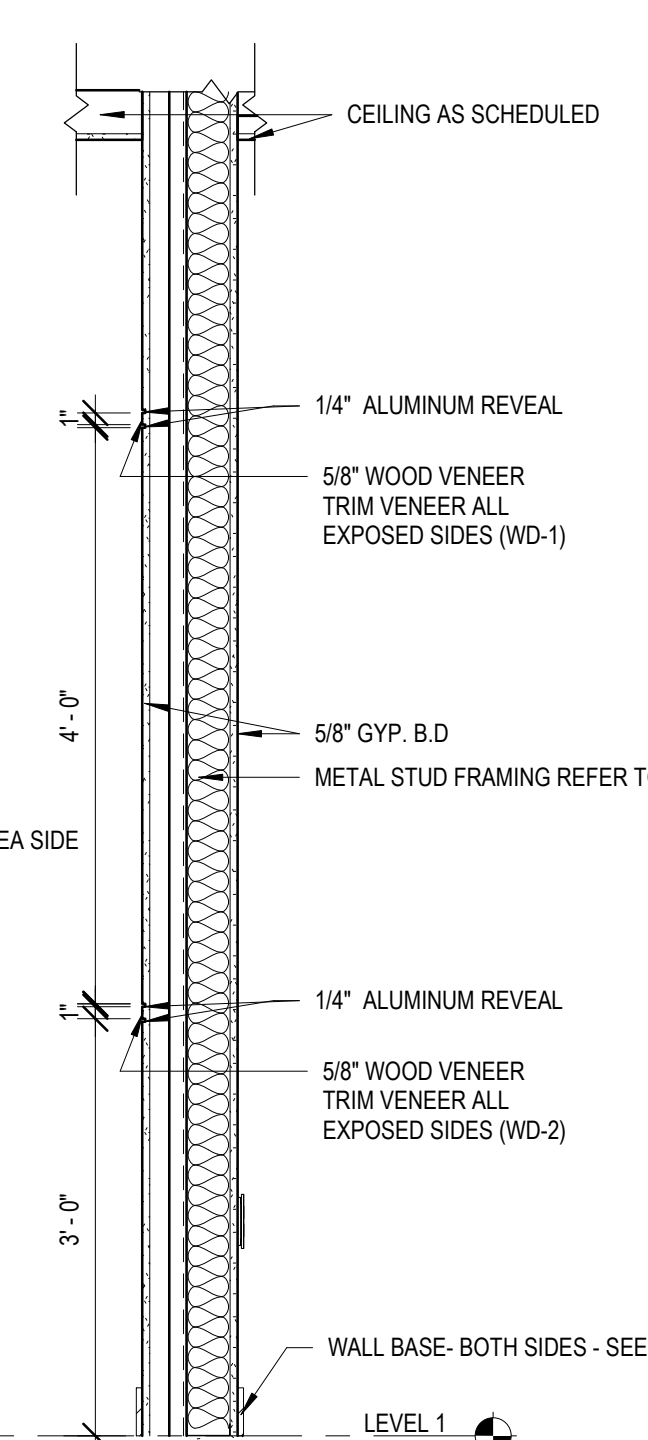
**1 CORRIDOR WALL SECTION**  
 3/4" = 1'-0"



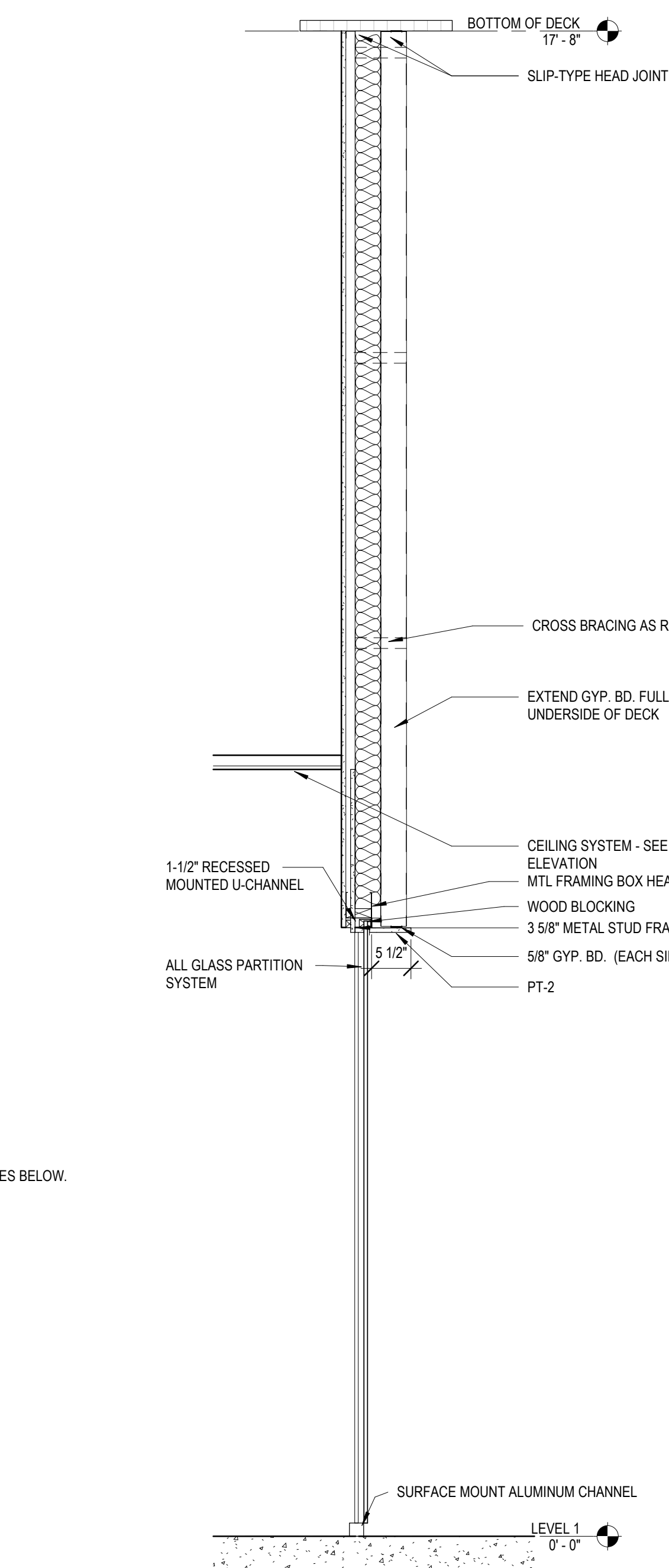
**2 WALL REVEAL SECTION**  
 3/4" = 1'-0"



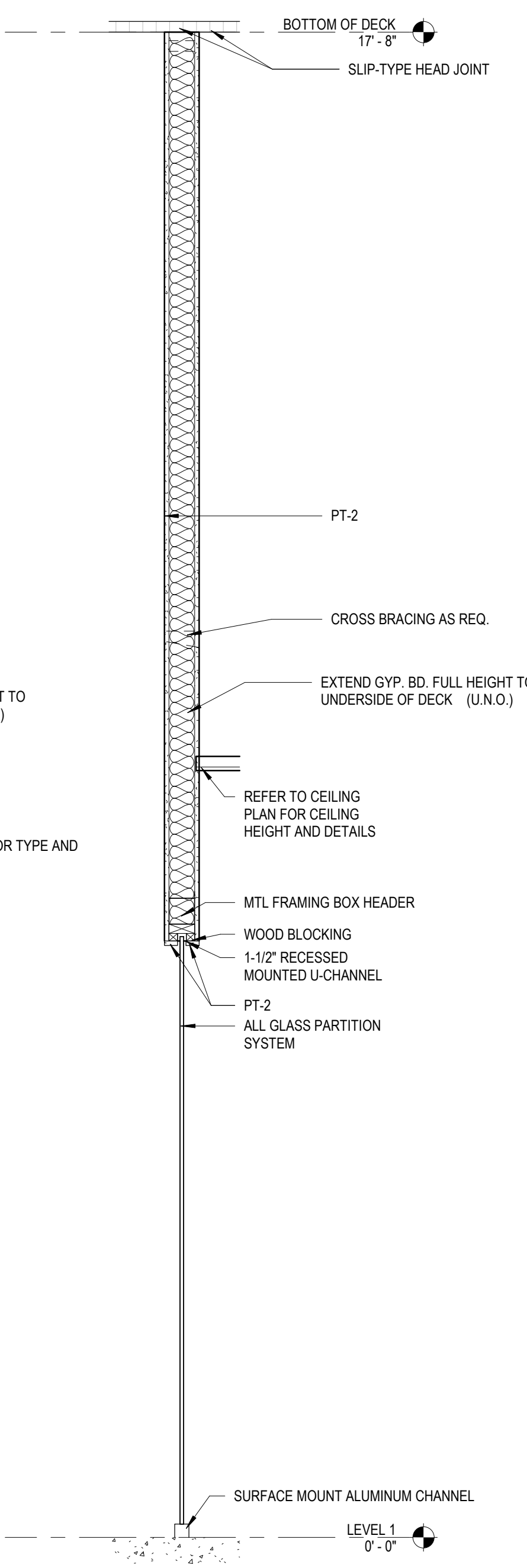
**3 WOOD VENEER WALL**  
 3/4" = 1'-0"



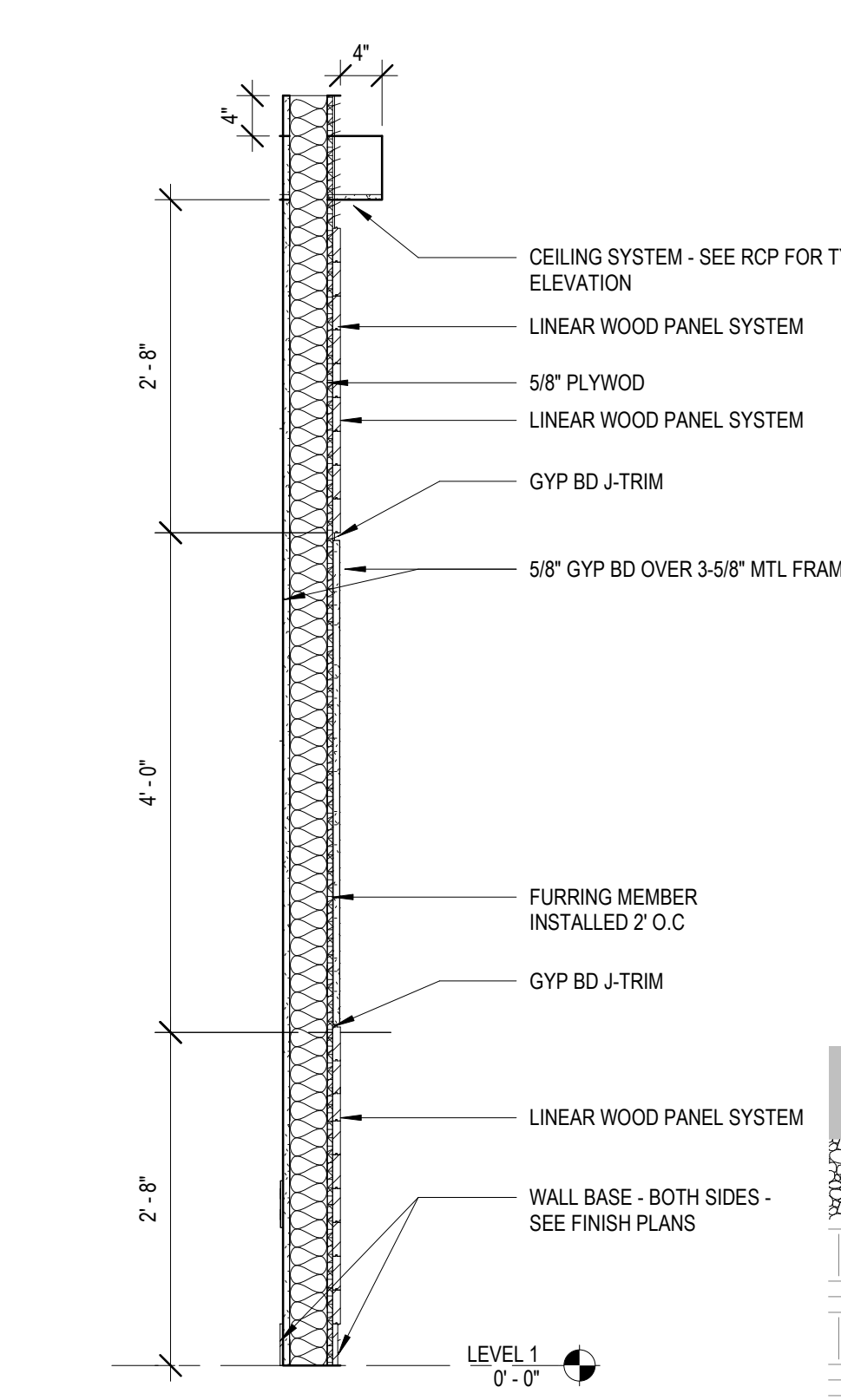
**4 CONF. ROOM WALL**  
 3/4" = 1'-0"



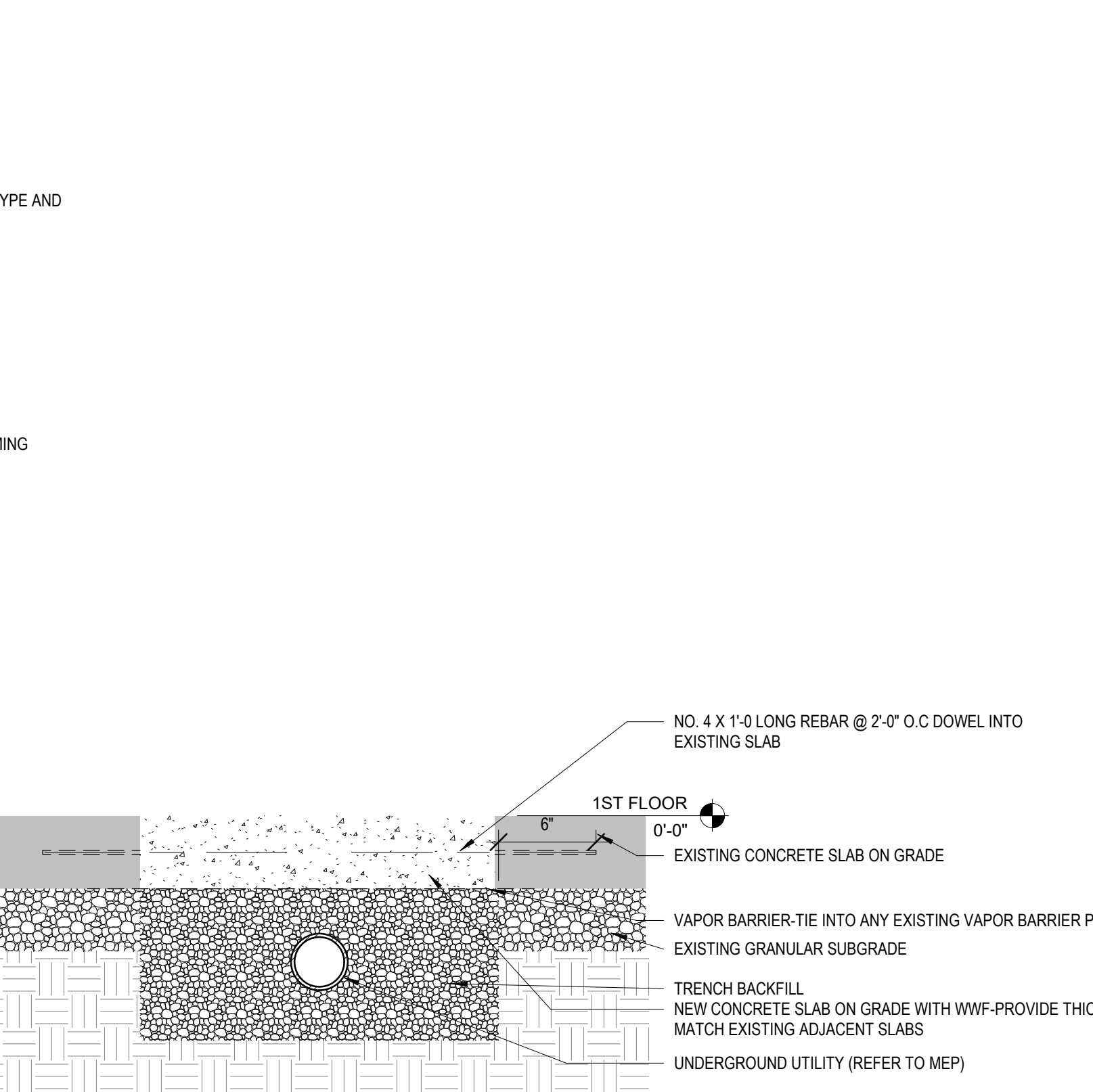
**5 CORRIDOR GLASS WALL SECTION**  
 3/4" = 1'-0"



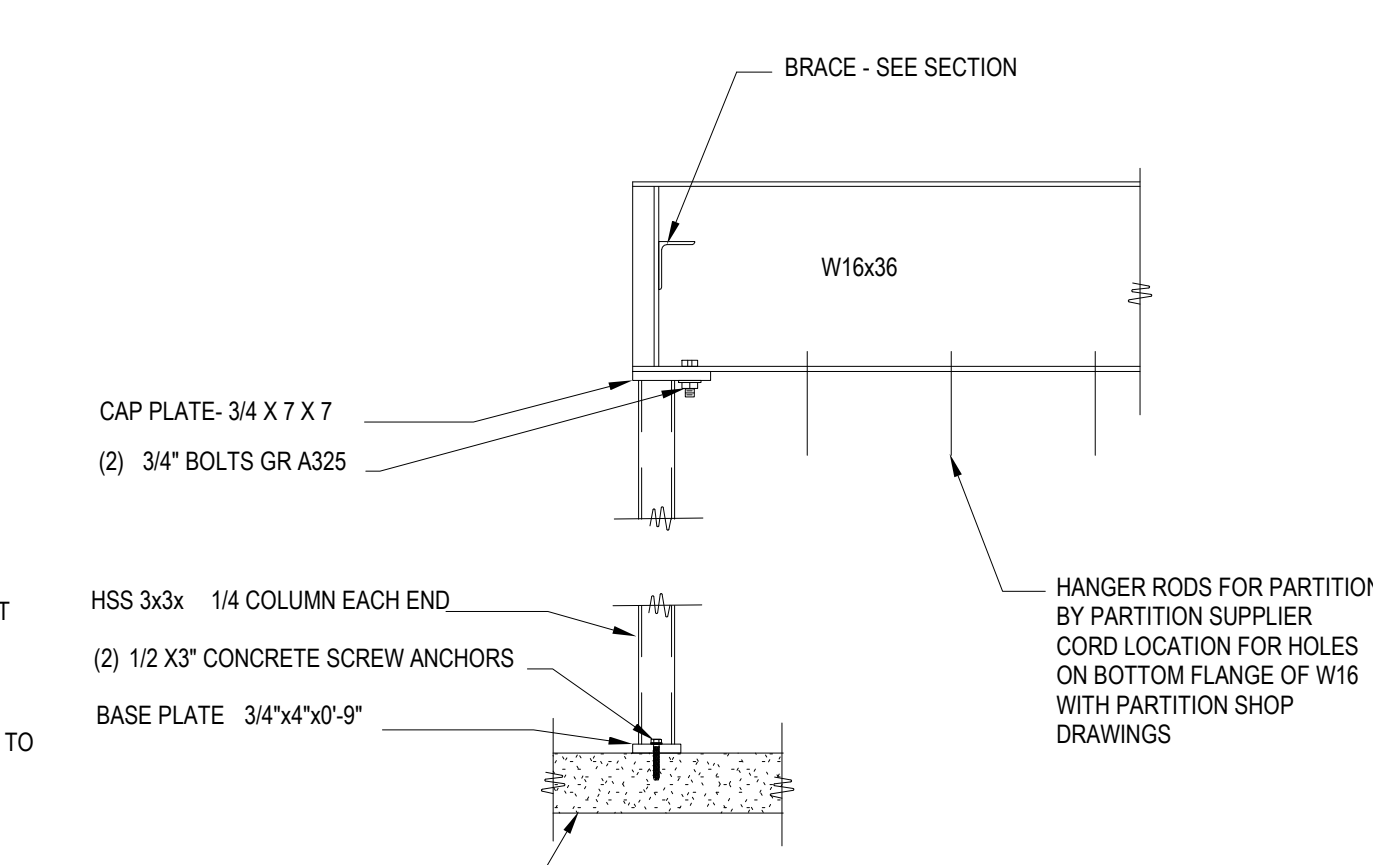
**6 GLASS WALL SECTION**  
 3/4" = 1'-0"



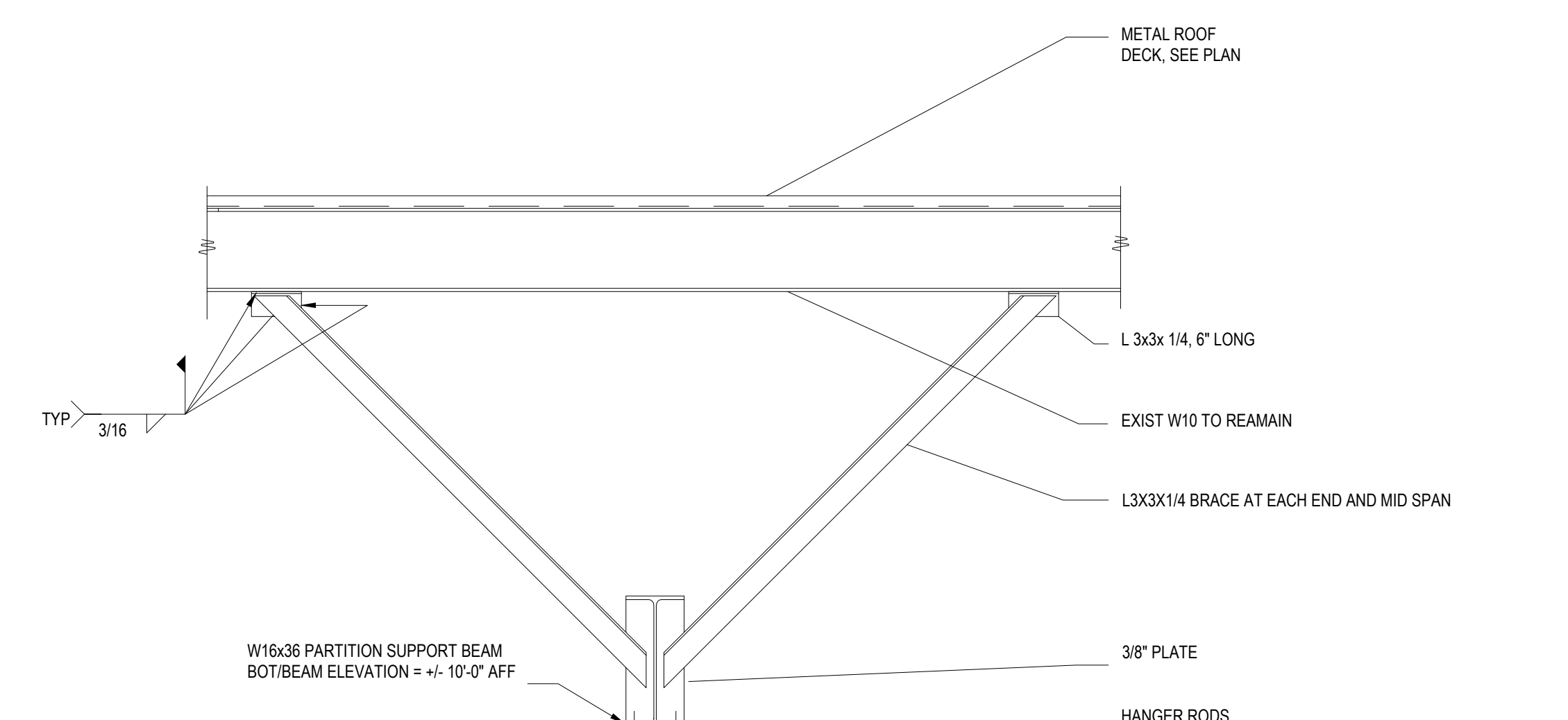
**8 SECTION DETAIL**  
 3/4" = 1'-0"



**9 SECTION DETAIL**  
 1 1/2" = 1'-0"



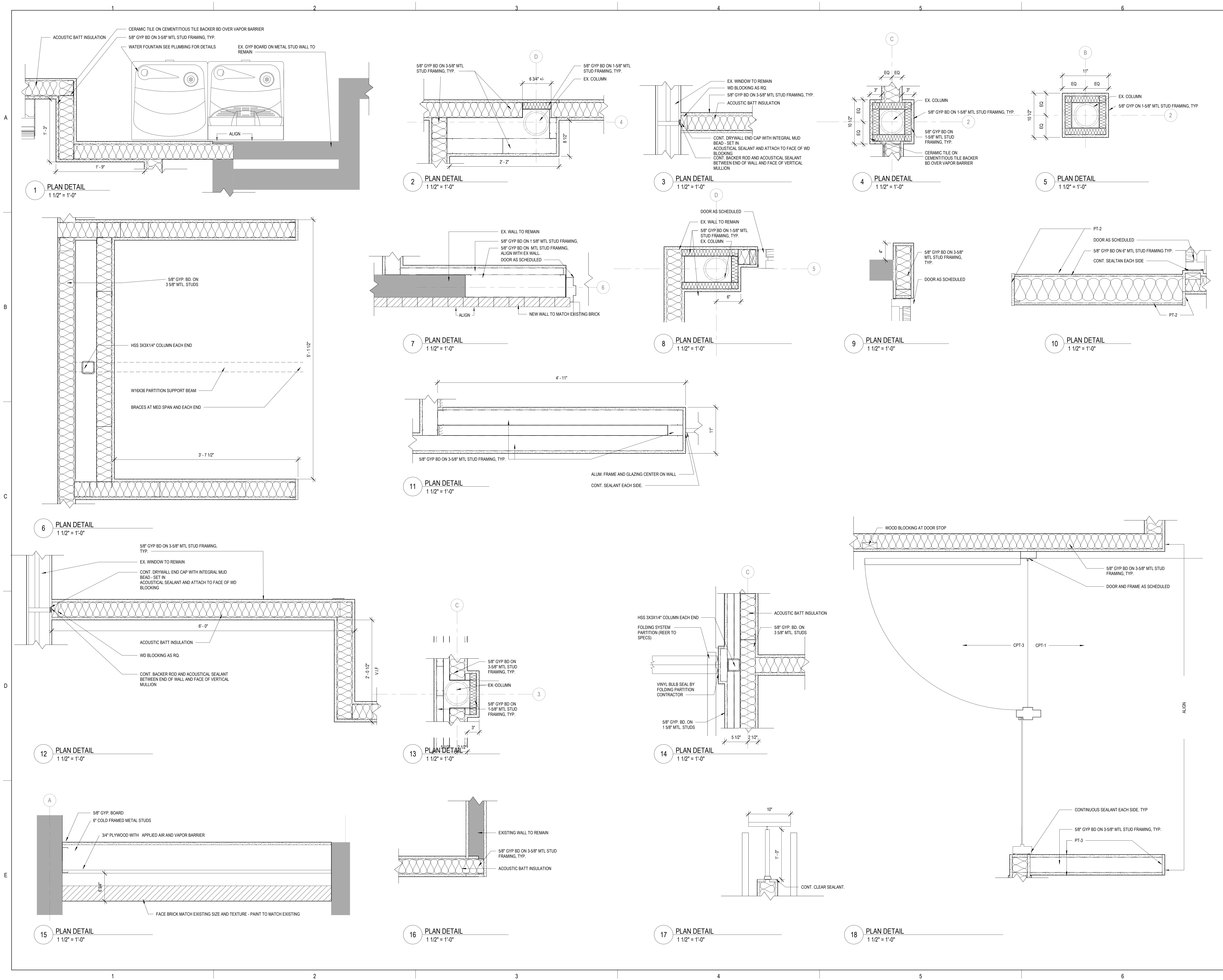
**10 OPERABLE PARTITION SUPPORT DETAIL AT END SUPPORTS**  
 3/4" = 1'-0"



**11 OPERABLE PARTITION BRACING SECTION AT OPERABLE PARTITION**  
 3/4" = 1'-0"

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KEY PLAN:

SHEET STATUS: 9.19.23  
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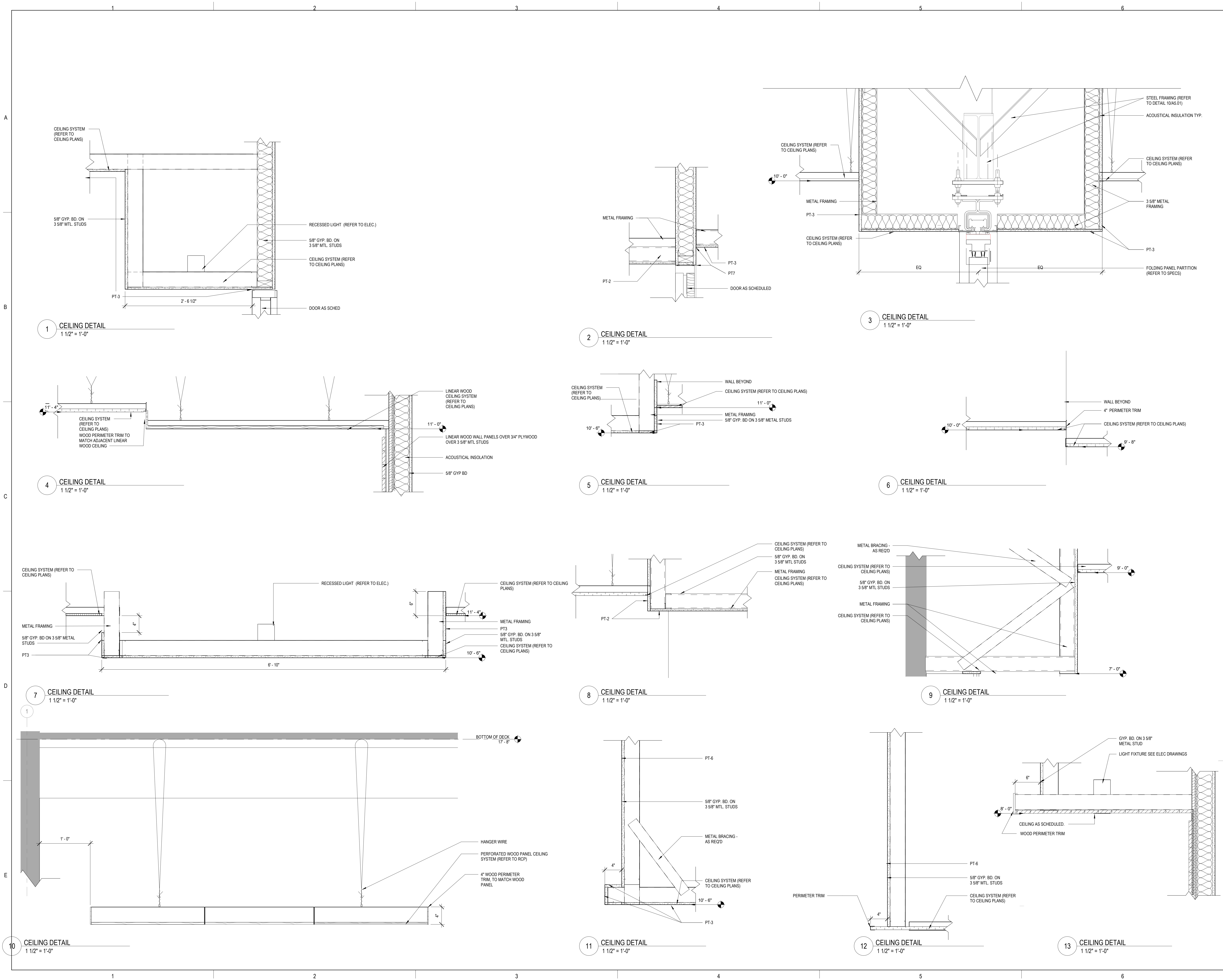
NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**PLAN DETAILS**

SHEET NUMBER:

**A7.10**

NO.	DESCRIPTION:	DATE:



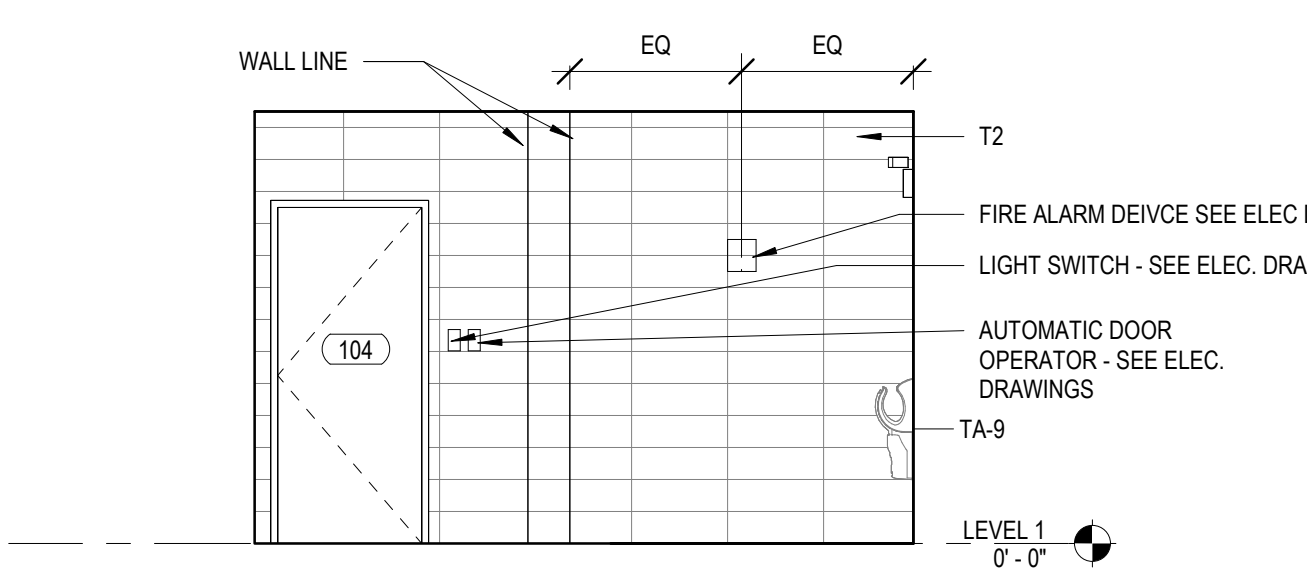


TOILET ACCESSORIES LEGEND	
TA-1	TOILET PAPER DISPENSER
TA-2	SANITARY NAPKIN DISPOSAL
TA-3A	36" GRAB BAR
TA-3B	42" GRAB BAR
TA-3D	18" GRAB BAR
TA-5A	WALL MOUNT MIRROR
TA-6	WALL MOUNTED SOAP DISPENSER
TA-8	WALL MOUNTED BABY CHANGING STATION
TA-9	WALL MOUNTED AUTOMATIC HAND DRYER
TA-12	TOWEL DISPENSER
TA-13	SANITARY NAPKIN VENDING

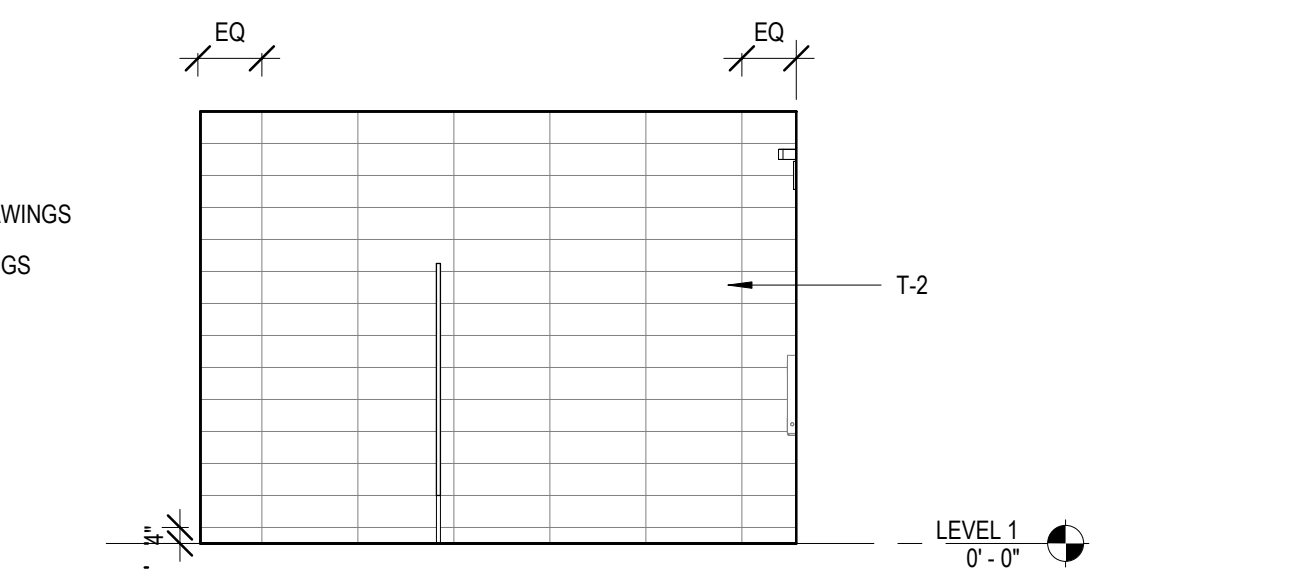
NOTE: ALL ITEMS TO BE CFCI (U.N.C)

**1 ENLARGED FLOOR PLAN- TOILET ROOMS**  
 1/4" = 1'-0"

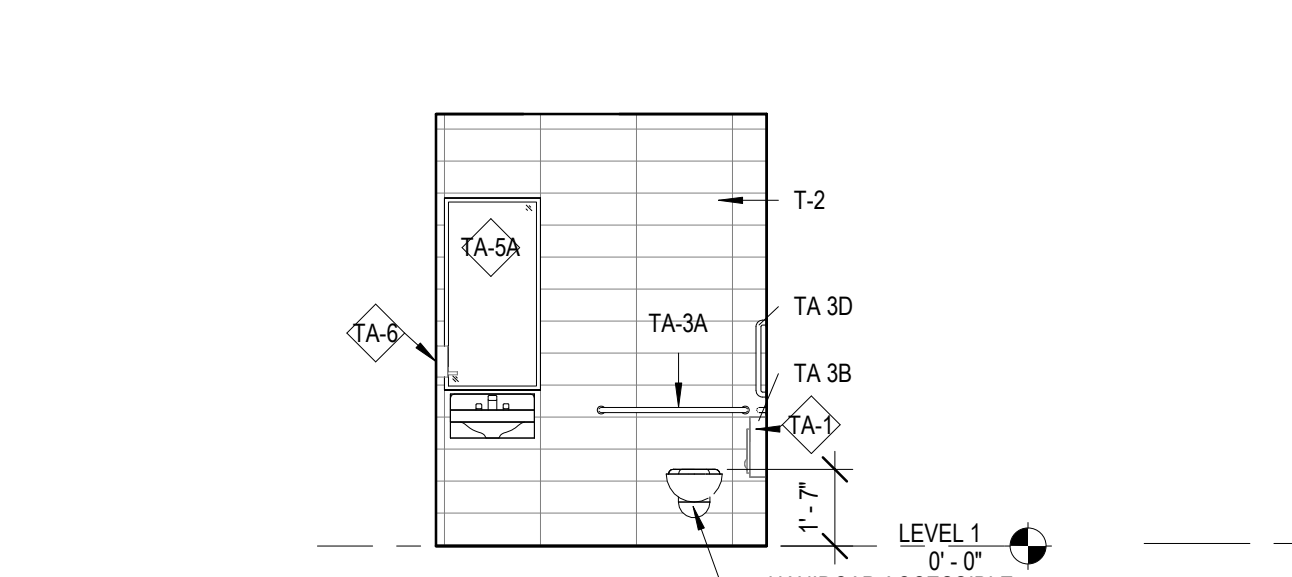
**2 ENLARGED FLOOR PLAN- SINGLE USE TOILET ROOM**  
 1/4" = 1'-0"



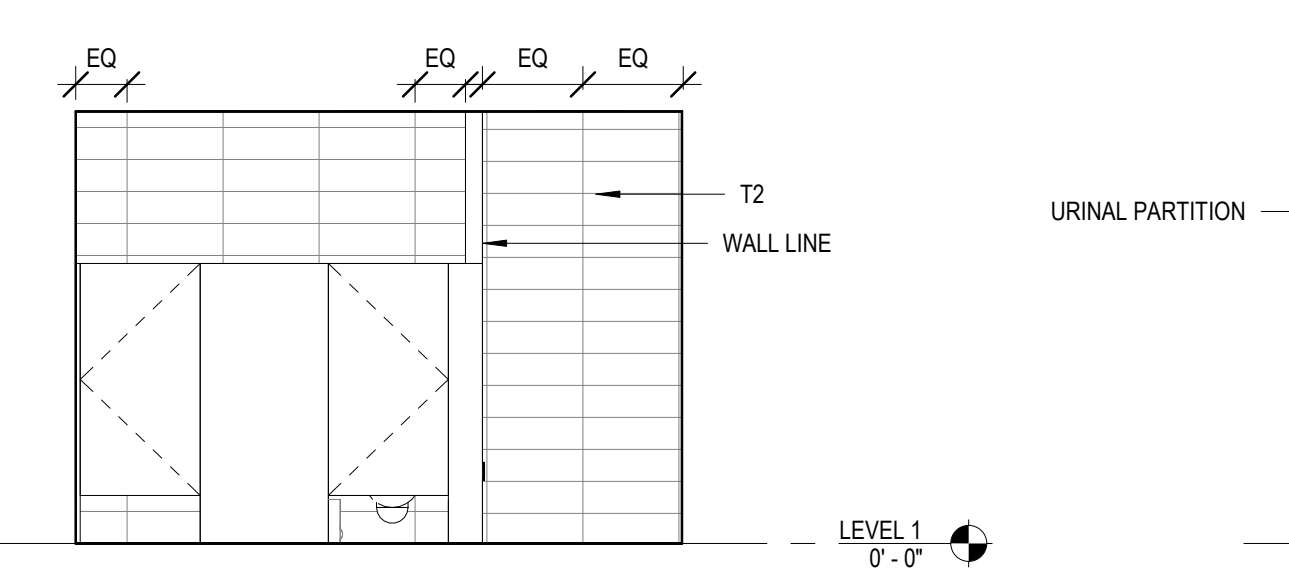
**3 EAST WALL W. TOILET ELEVATION**  
 1/4" = 1'-0"



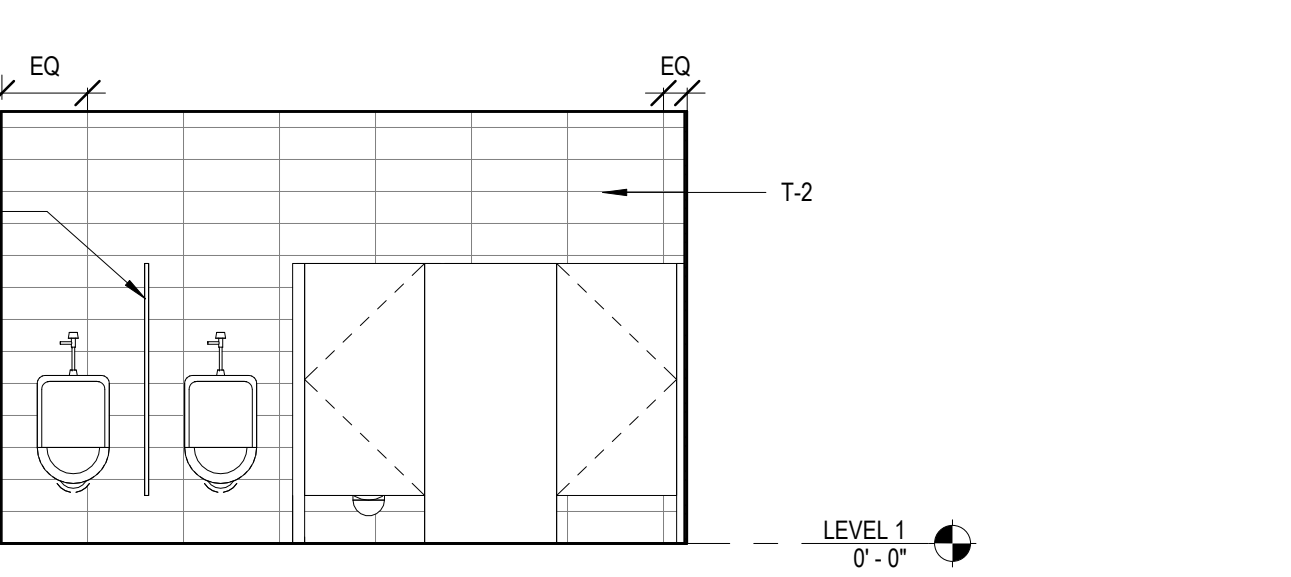
**4 EAST WALL M. TOILET ELEVATION**  
 1/4" = 1'-0"



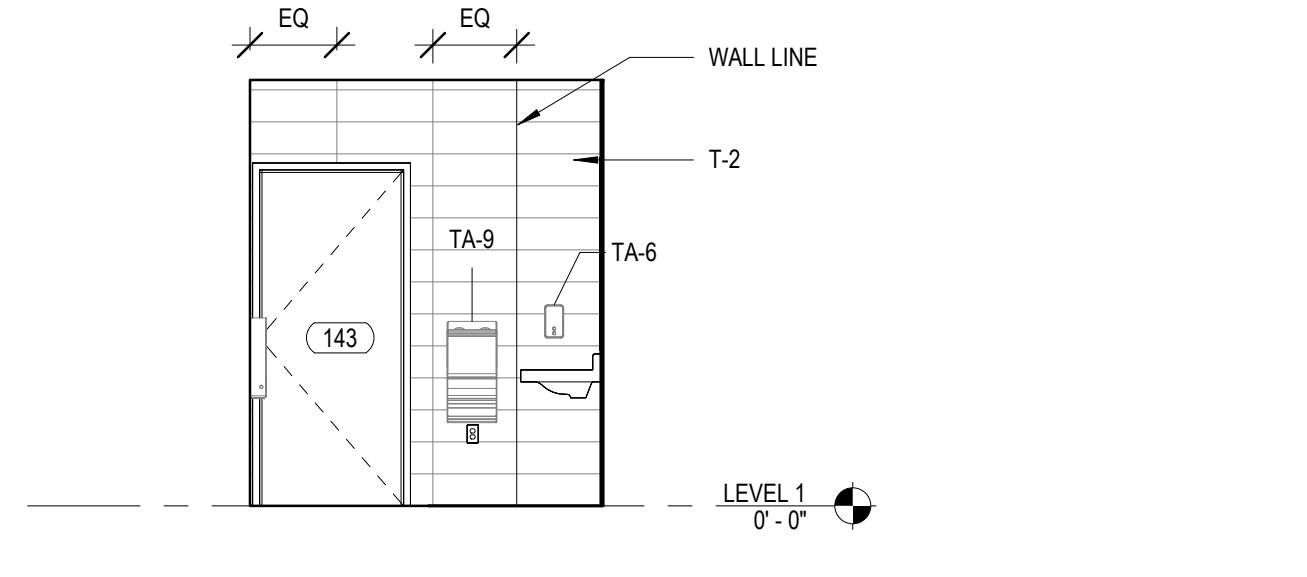
**5 EAST WALL SINGLE USE TOILET ROOM ELEVATION**  
 1/4" = 1'-0"



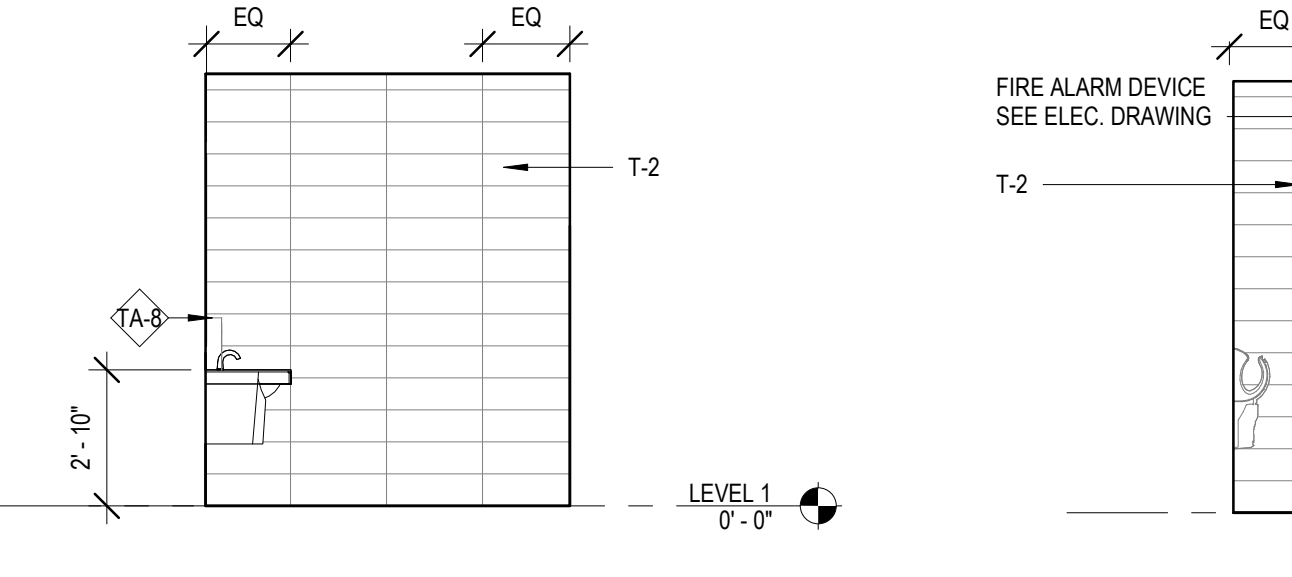
**6 NORTH WALL W. TOILET ELEVATION**  
 1/4" = 1'-0"



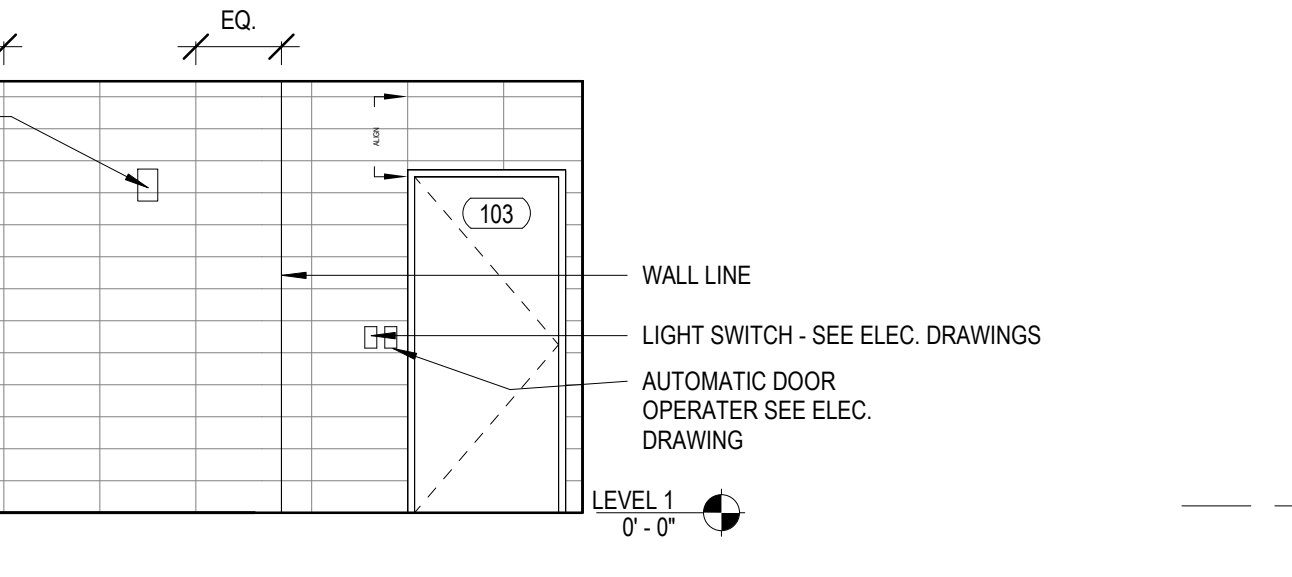
**7 NORTH WALL M. TOILET ELEVATION**  
 1/4" = 1'-0"



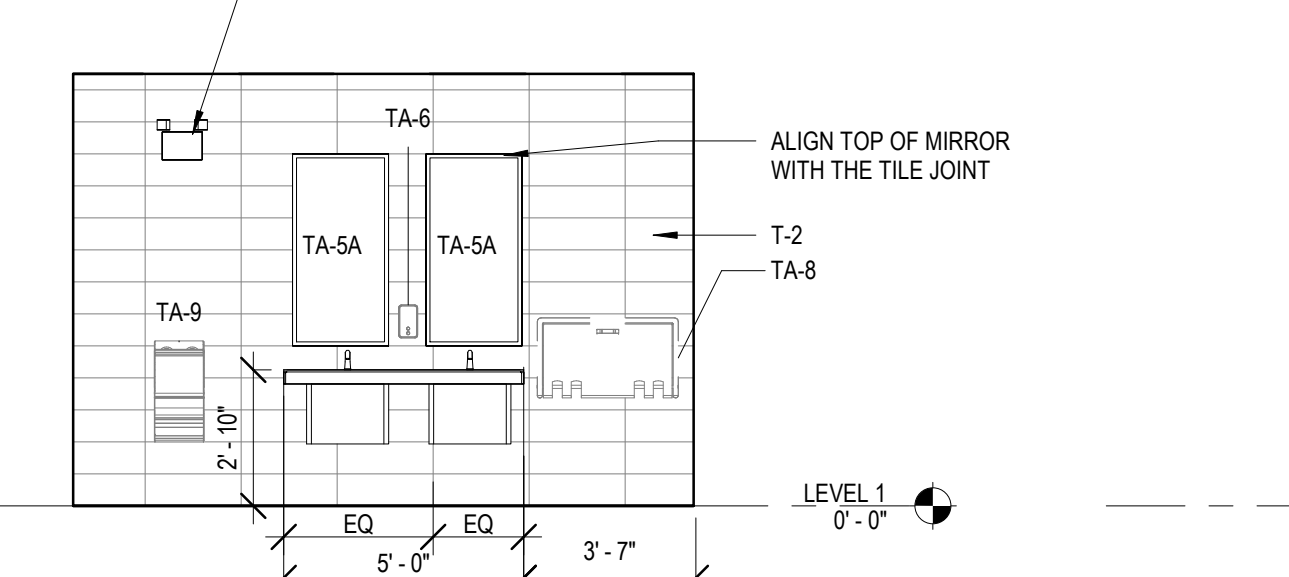
**8 NORTH WALL SINGLE USE TOILET ROOM ELEVATION**  
 1/4" = 1'-0"



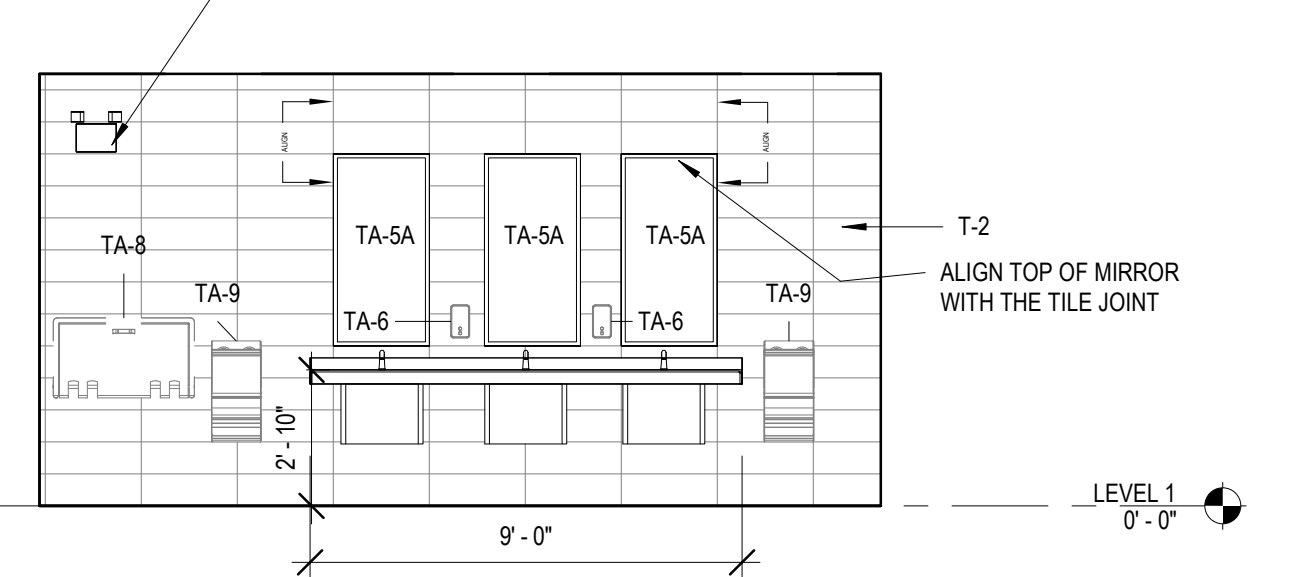
**9 WEST WALL W. TOILET ELEVATION**  
 1/4" = 1'-0"



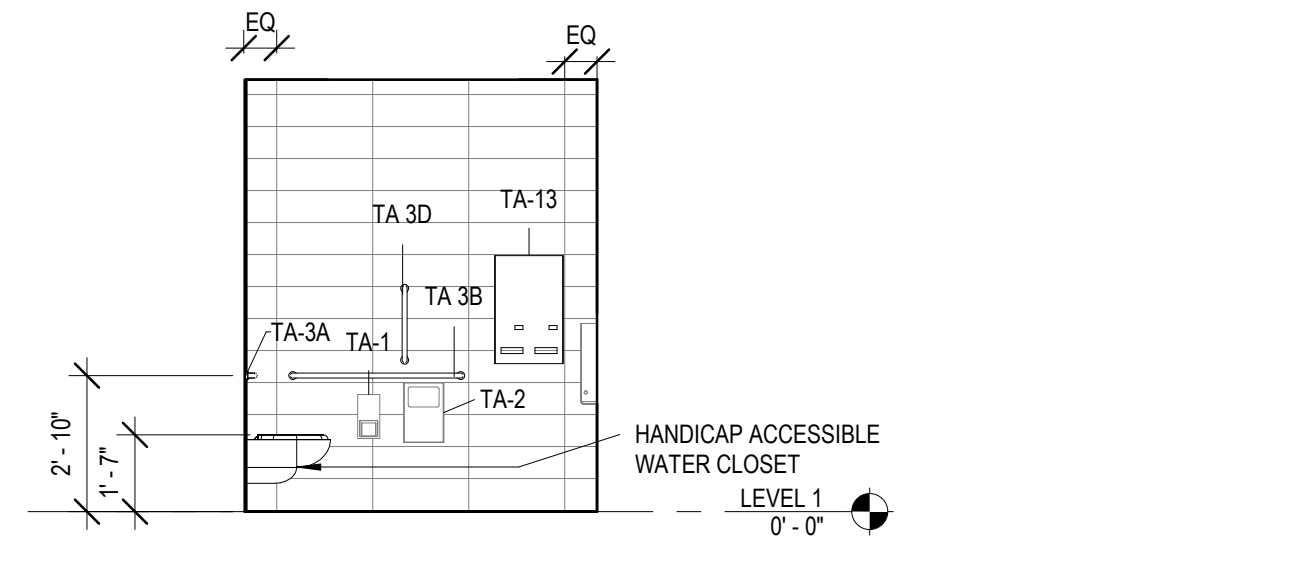
**10 WEST WALL M. TOILET ELEVATION**  
 1/4" = 1'-0"



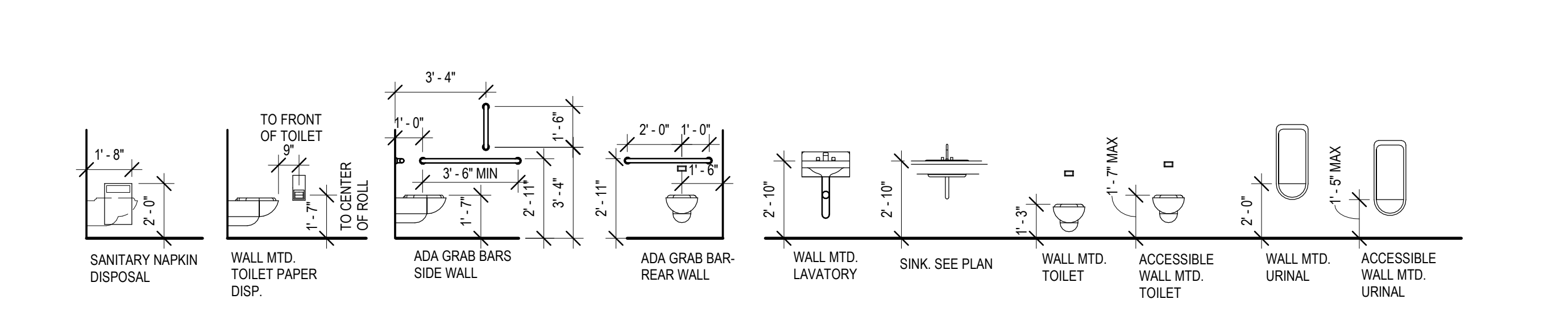
**11 SOUTH WALL W. TOILET ELEVATION**  
 1/4" = 1'-0"



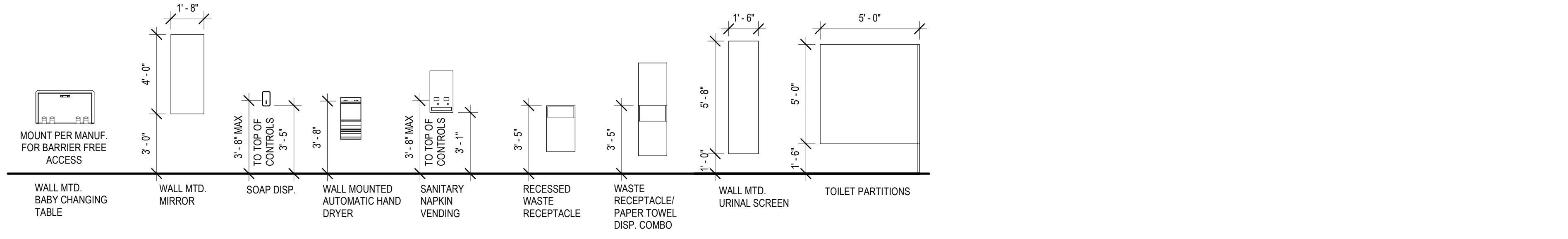
**12 SOUTH WALL M. TOILET ELEVATION**  
 1/4" = 1'-0"



**13 SOUTH WALL SINGLE USE TOILET ROOM ELEVATION**  
 1/4" = 1'-0"



**14 BATHROOM MOUNTING HEIGHT KEY**  
 1/4" = 1'-0"



KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**TOILET ROOMS AND ELEVATIONS**

SHEET NUMBER:  
**A8.01**



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-PP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE  
 UNIVERSITY CENTER AT MCC**  
 222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23

**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

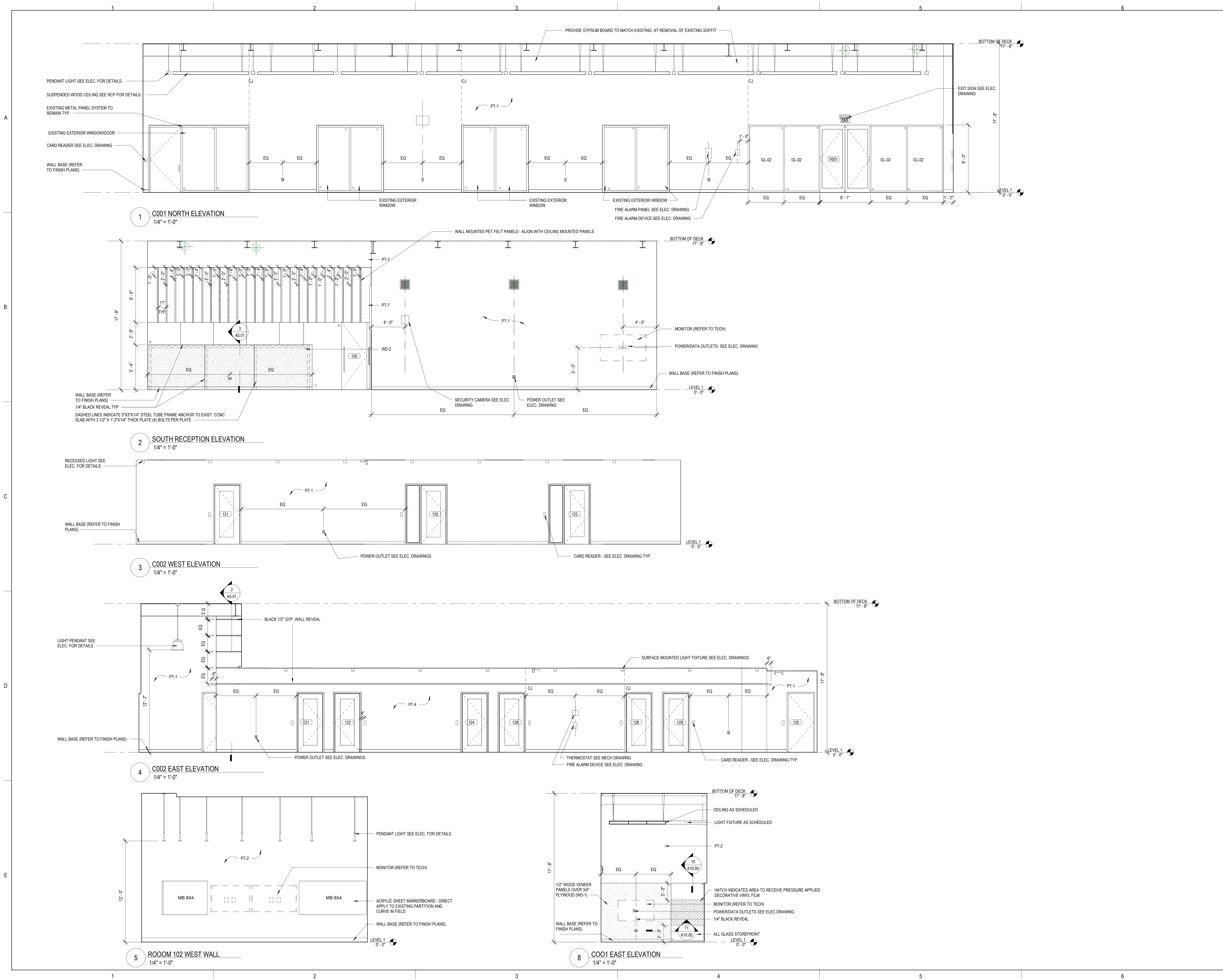
SHEET TITLE:

**INTERIOR  
 ELEVATIONS**

SHEET NUMBER:

**A9.01**

9/22/2023 2:17:46 PM





ARCHITECT OF RECORD  
**DEMIONA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-PP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE**  
**UNIVERSITY CENTER AT MCC**  
 222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

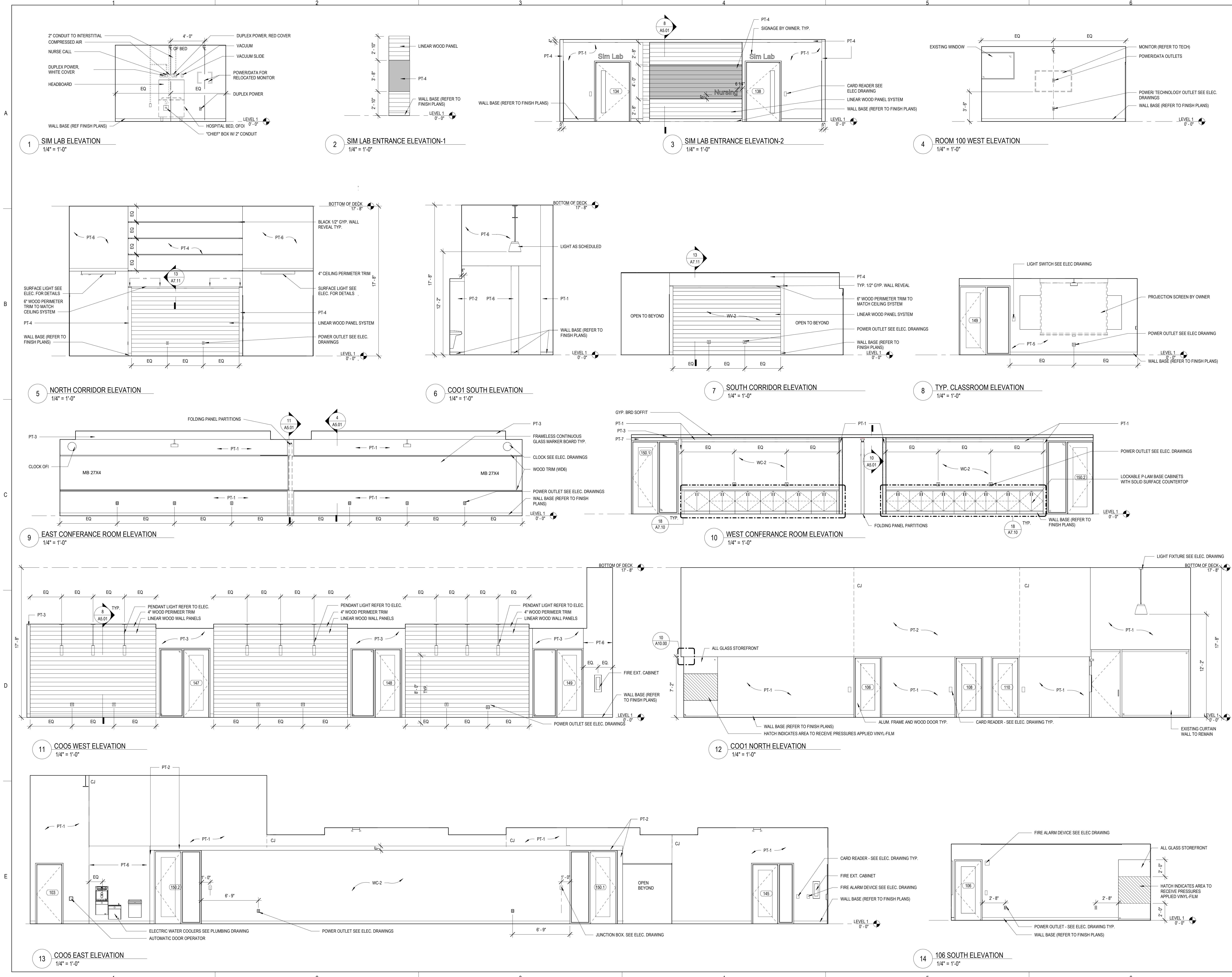
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**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**INTERIOR ELEVATIONS**

SHEET NUMBER:  
**A9.02**

9/22/2023 2:17:52 PM





ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-PP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE  
 UNIVERSITY CENTER AT MCC**

222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23

**ISSUED FOR BIDS**

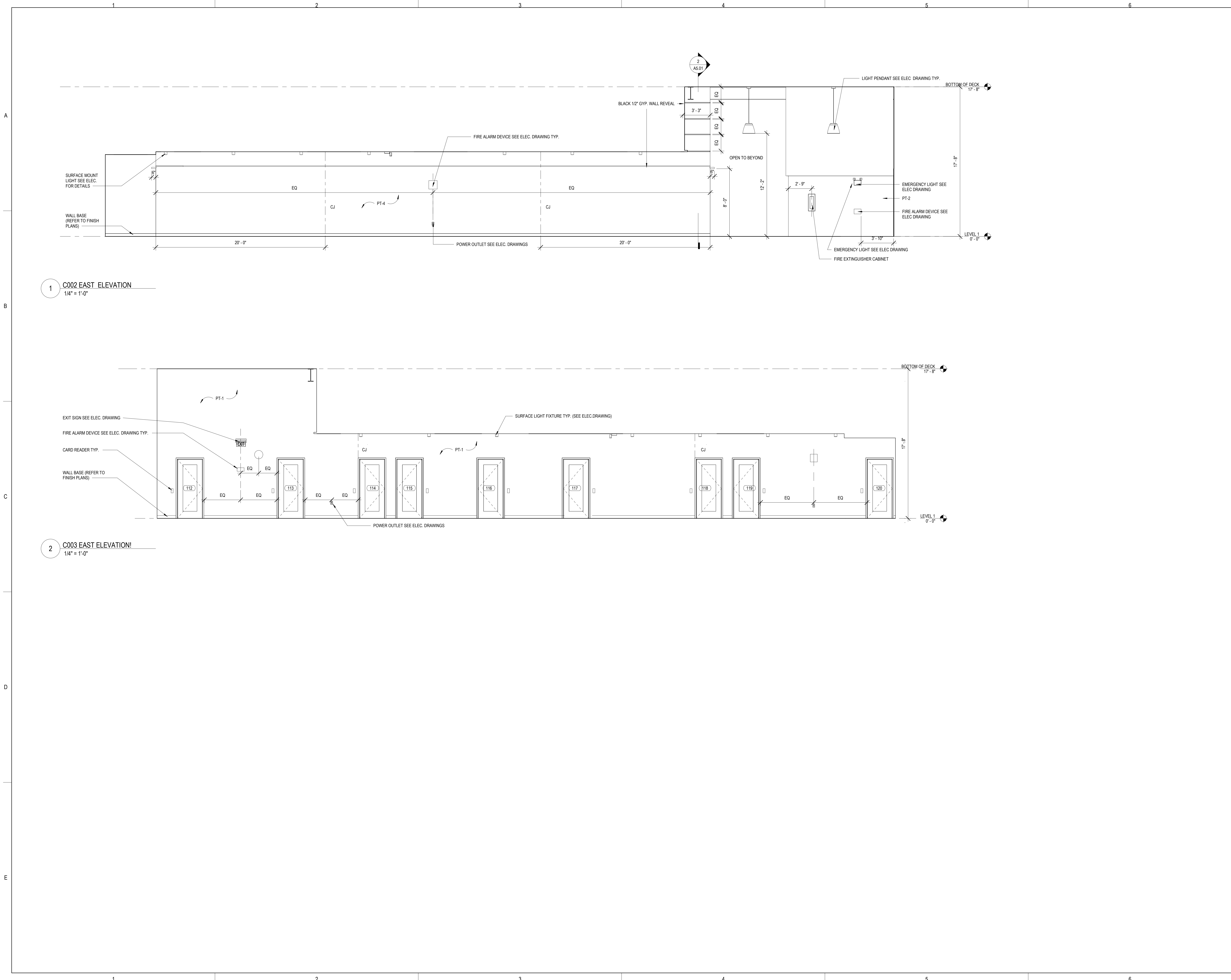
NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**INTERIOR  
 ELEVATIONS**

SHEET NUMBER:

**A9.03**

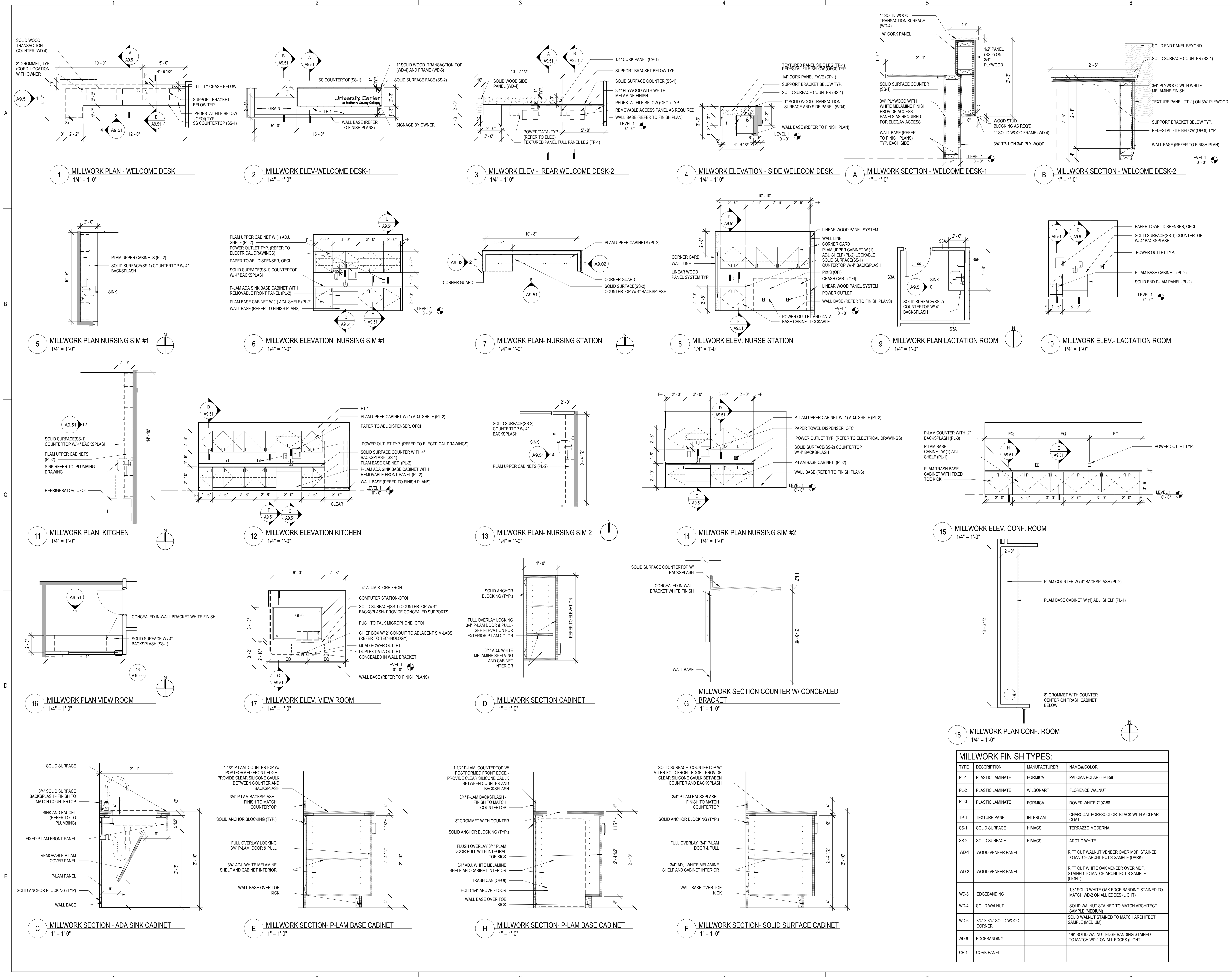
9/22/2023 2:18:17 PM



1 C002 EAST ELEVATION  
 1/4" = 1'-0"

2 C003 EAST ELEVATION!  
 1/4" = 1'-0"

NO.	DESCRIPTION:	DATE:



MILLWORK FINISH TYPES:			
TYPE	DESCRIPTION	MANUFACTURER	NAME#COLOR
PL-1	PLASTIC LAMINATE	FORMICA	PALOMA POLAR 6698-58
PL-2	PLASTIC LAMINATE	WILSONART	FLORENCE WALNUT
PL-3	PLASTIC LAMINATE	FORMICA	DOVER WHITE 7197-58
TP-1	TEXTURE PANEL	INTERLAM	CHARCOAL FORESCOLOR -BLACK WITH A CLEAR COAT
SS-1	SOLID SURFACE	HIMACS	TERRAZZO MODERNA
SS-2	SOLID SURFACE	HIMACS	ARCTIC WHITE
WD-1	WOOD VENEER PANEL		RIFT CUT WALNUT VENEER OVER MDF, STAINED TO MATCH ARCHITECT'S SAMPLE (DARK)
WD-2	WOOD VENEER PANEL		RIFT CUT WHITE OAK VENEER OVER MDF, STAINED TO MATCH ARCHITECT'S SAMPLE (LIGHT)
WD-3	EDGE BANDING		1/8" SOLID WHITE OAK EDGE BANDING STAINED TO MATCH WD-2 ON ALL EDGES (LIGHT)
WD-4	SOLID WALNUT		SOLID WALNUT STAINED TO MATCH ARCHITECT SAMPLE (MEDIUM)
WD-6	3/4" X 3/4" SOLID WOOD CORNER		SOLID WALNUT STAINED TO MATCH ARCHITECT SAMPLE (MEDIUM)
WD-6	EDGE BANDING		1/8" SOLID WALNUT EDGE BANDING STAINED TO MATCH WD-1 ON ALL EDGES (LIGHT)
CP-1	CORK PANEL		



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**HRG GREEN**  
 2010 ENGINEERING GROUP, LLC  
 1216 TOWER ROAD  
 SCHAUHURST, IL 60173  
 P: 847.882.2010 F: 847.882.2201

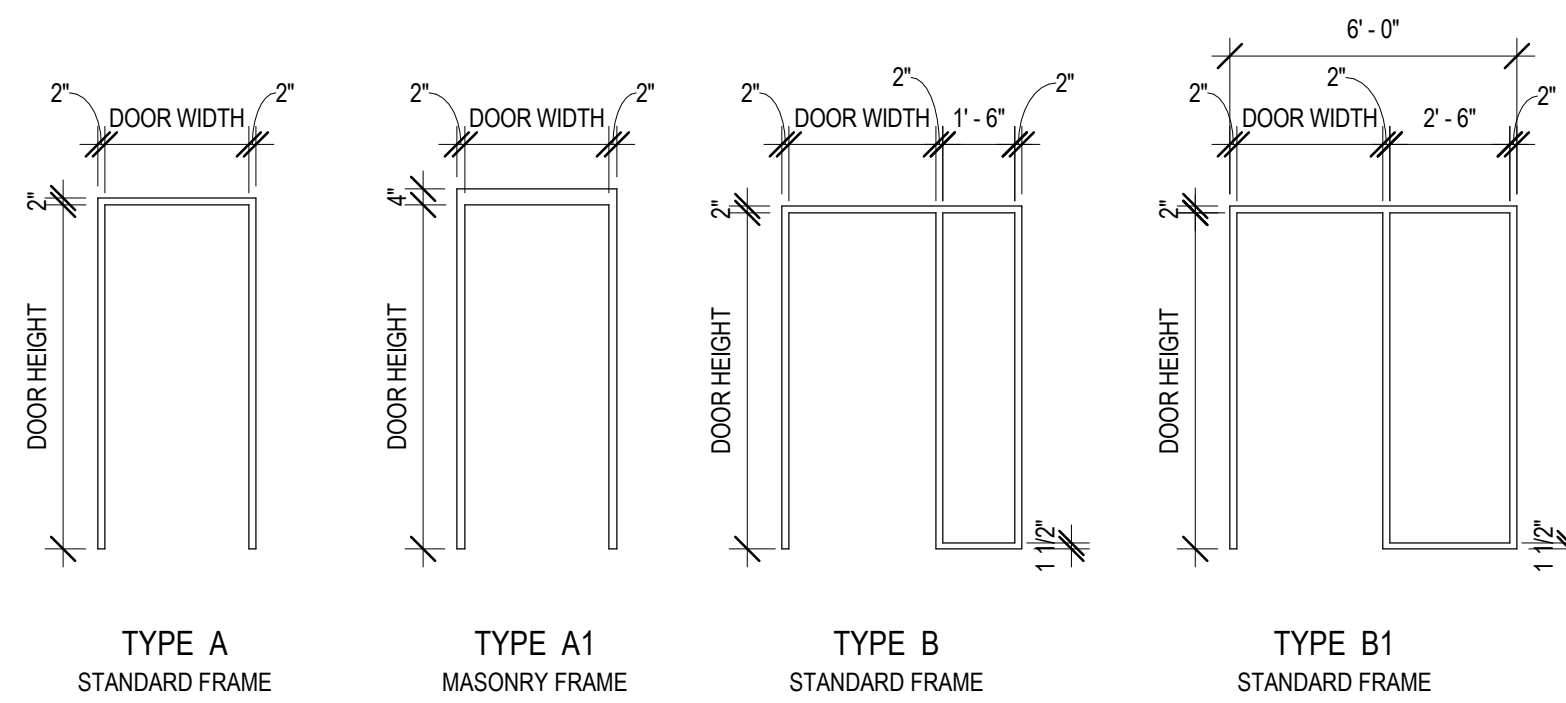
CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE**  
**UNIVERSITY CENTER AT MCC**  
 222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

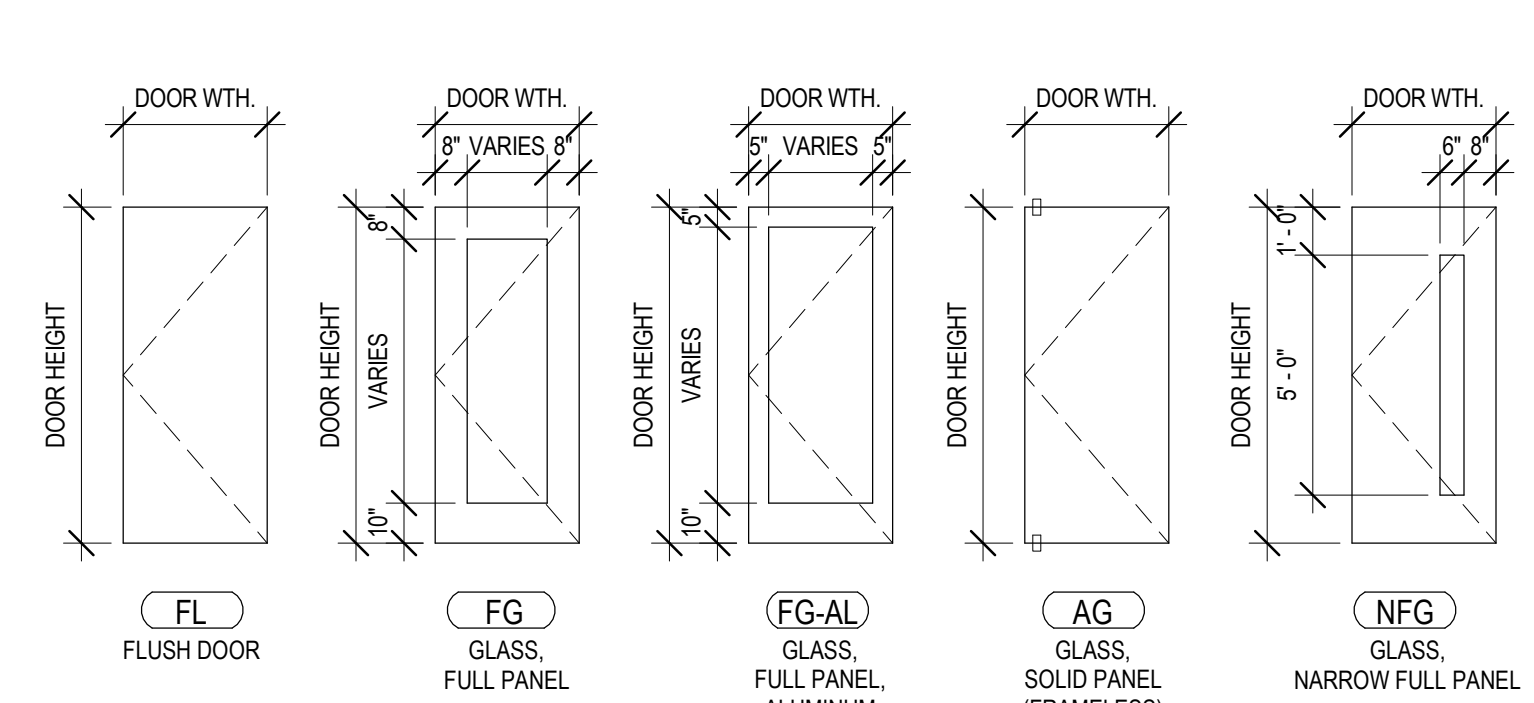
**DOOR AND FRAME SCHEDULE**

NUMBER	ROOM NAME	DOOR				FRAME		HARDWARE SET	REMARKS	
		WIDTH	HEIGHT	MATERIAL	ELEV	GLAZING TYPE	MATERIAL			ELEV
100	GROUP STUDY	3'-0"	7'-0"	AG	AG	GL-02	-	-	12	CARD READERS (REFER TO TECH)
103	M. TOILET	3'-0"	7'-0"	WD	FL	-	AL	A	01	
104	W. TOILET	3'-0"	7'-0"	WD	FL	-	AL	A	01	
105	WELCOME	3'-0"	8'-0"	AG	AG	GL-02	-	-	12	CARD READERS (REFER TO TECH)
105A	STUDENT LOUNGE / COLLABORATION	3'-0"	7'-0"	AG	AG	GL-02	-	-	12	CARD READERS (REFER TO TECH)
105B	STUDENT LOUNGE / COLLABORATION	3'-0"	7'-0"	AG	AG	GL-02	-	-	12	CARD READERS (REFER TO TECH)
106	CONF	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
107	SBOC CONF	3'-0"	7'-0"	AG	AG	GL-01	-	-	12	CARD READERS (REFER TO TECH)
108	OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
109	OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
109	SBOC OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	B	04	CARD READERS (REFER TO TECH)
110	COM ED OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
112	CORRIDOR	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
113	ADMIN OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
114	SHAH OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
115	SHAH OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
116	SHAH OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
117	SHAH OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
118	SHAH OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
119	SHAH OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
120	SHAH OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
121	SBOC OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
122	COM ED OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
123	SBOC LIBRARY	3'-0"	7'-0"	WD	FG	GL-02	AL	B	04	CARD READERS (REFER TO TECH)
124	COM ED OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
125	CLASSROOM	3'-0"	7'-0"	WD	FG	GL-02	AL	B	04	CARD READERS (REFER TO TECH)
126	UC OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
128	UC OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
129	UC OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
130	CLASSROOM	3'-0"	7'-0"	WD	FG	GL-02	AL	B	04	CARD READERS (REFER TO TECH)
131	CORRIDOR	3'-0"	7'-0"	WD	FG	GL-02	-	-	04	CARD READERS (REFER TO TECH)
132	VIEW ROOM	3'-0"	7'-0"	WD	FG	GL-02	AL	A	07	CARD READERS (REFER TO TECH)
133	UC OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
134	NURSING SIM	4'-0"	7'-0"	WD	NFG	GL-02	AL	A	07	CARD READERS (REFER TO TECH)
135	IT	3'-0"	7'-0"	WD	FL	-	AL	A	04	CARD READERS (REFER TO TECH)
136	CONF	3'-0"	7'-0"	WD	NFG	GL-02	AL	B	05	CARD READERS (REFER TO TECH)
137	CLASSROOM	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)
138	NURSING SIM	4'-0"	7'-0"	WD	NFG	GL-02	AL	A	07	CARD READERS (REFER TO TECH)
140	VIEW ROOM	3'-0"	7'-0"	WD	FG	GL-02	AL	A	07	CARD READERS (REFER TO TECH)
141	M. TOILET	3'-0"	7'-0"	WD	FG	GL-02	AL	-	01	REPLACE EXISTING DOOR ONLY. VERIFY SIZE IN FIELD
142	W. TOILET	3'-0"	7'-0"	WD	FG	GL-02	AL	-	01	REPLACE EXISTING DOOR ONLY. VERIFY SIZE IN FIELD
143	TOILET	3'-0"	7'-0"	WD	FG	GL-02	AL	-	02	
144	LACTATION	3'-0"	7'-0"	WD	FG	GL-02	AL	A	03	CARD READERS (REFER TO TECH)
145	KITCHEN	3'-0"	7'-0"	WD	FL	-	AL	B	04	
146	VEST.	3'-0"	7'-0"	WD	FG	GL-02	AL	A	10	PROVIDE PANIC HARDWARE REQUIRED. CARD READERS (REFER TO TECH)
147	CORRIDOR	3'-0"	8'-0"	WD	FG	GL-02	AL	B1	04	CARD READERS (REFER TO TECH)
148	CLASSROOM	3'-0"	8'-0"	WD	FG	GL-02	AL	B1	04	CARD READERS (REFER TO TECH)
149	CLASSROOM	3'-0"	8'-0"	WD	FG	GL-02	AL	B1	04	CARD READERS (REFER TO TECH)
150-1	CONFERENCE	3'-0"	8'-6"	WD	FG	GL-02	AL	B	10	PROVIDE PANIC HARDWARE REQUIRED. CARD READERS (REFER TO TECH)
150-2	CONFERENCE	3'-0"	8'-6"	WD	FG	GL-02	AL	B	10	PROVIDE PANIC HARDWARE REQUIRED. CARD READERS (REFER TO TECH)
203	STORAGE	3'-0"	7'-0"	WD	FL	-	AL	A	04	CARD READERS (REFER TO TECH)
204	JAN	3'-0"	7'-0"	WD	FG	GL-02	-	-	06	REPLACE EXISTING DOOR ONLY. VERIFY SIZE IN FIELD. CARD READERS (REFER TO TECH)
V001	VEST.	6'-0"	8'-0"	AG	FG-AL	GL-02	-	-	08	CARD READERS (REFER TO TECH)
V002.1	VEST.	6'-0"	7'-0"	AG	AG	GL-01	-	-	11	PROVIDE PANIC HARDWARE REQUIRED. CARD READERS (REFER TO TECH)
V002.2	VEST.	6'-0"	7'-0"	WD	FL	-	AL	A1	09	PROVIDE PANIC HARDWARE REQUIRED. CARD READERS (REFER TO TECH)

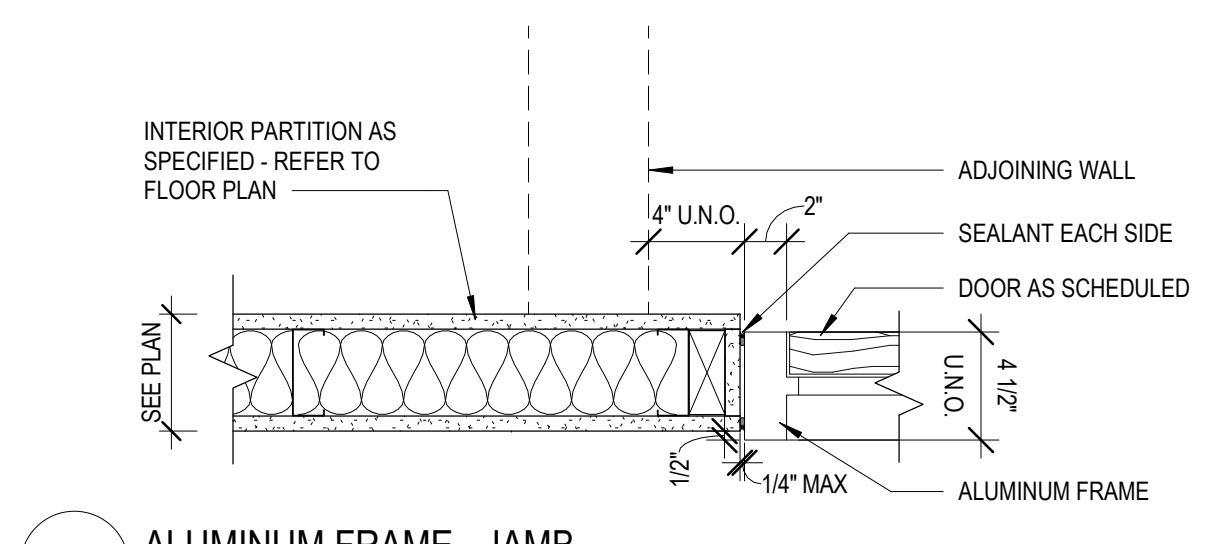
GLAZING SCHEDULE	
GL-01	1/4" CLEAR FULLY TEMPERED FLOAT GLASS
GL-02	1/2" CLEAR FULLY TEMPERED FLOAT GLASS
GL-05	ONE-WAY VISION GLASS-VISIBILITY FROM VIEWING ROOM SIDE



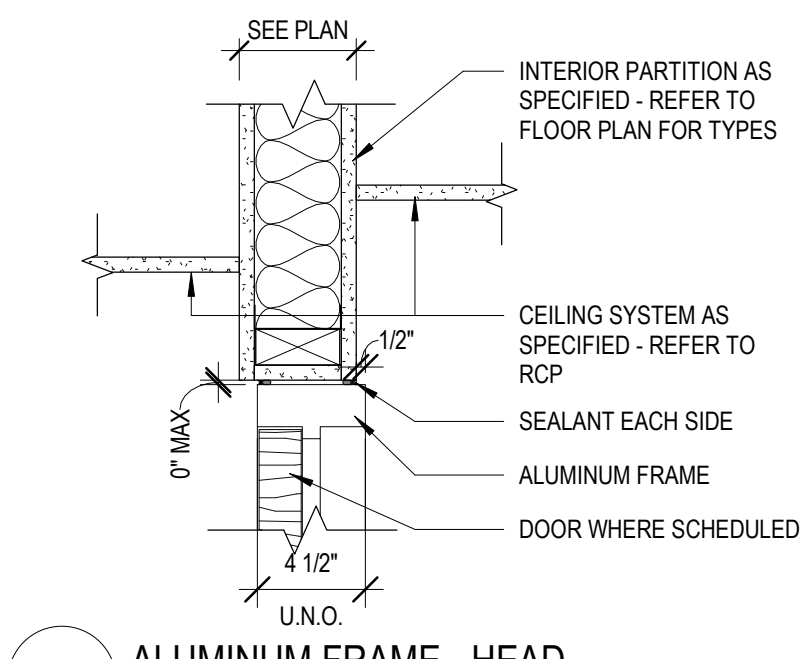
1 FRAME ELEVATIONS  
1/4" = 1'-0"



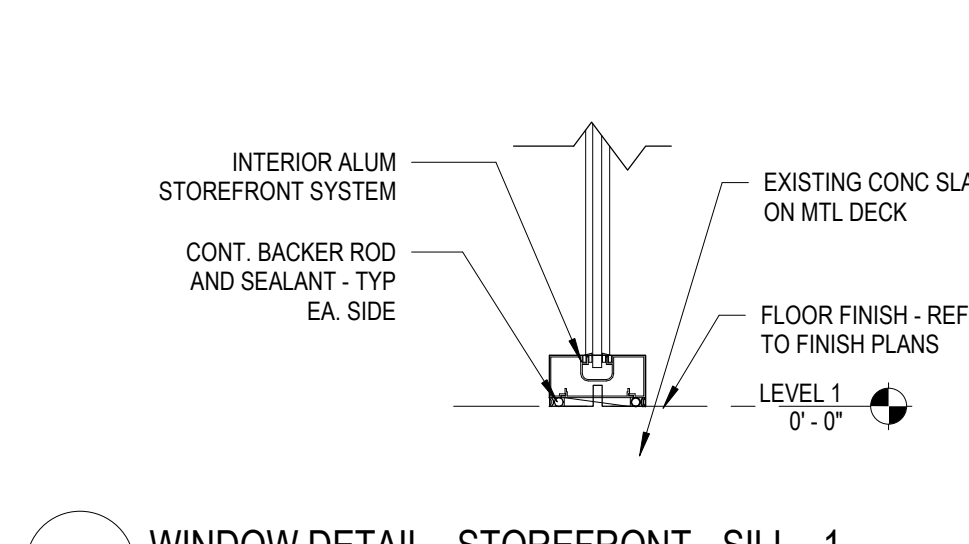
2 DOOR ELEVATIONS  
1/4" = 1'-0"



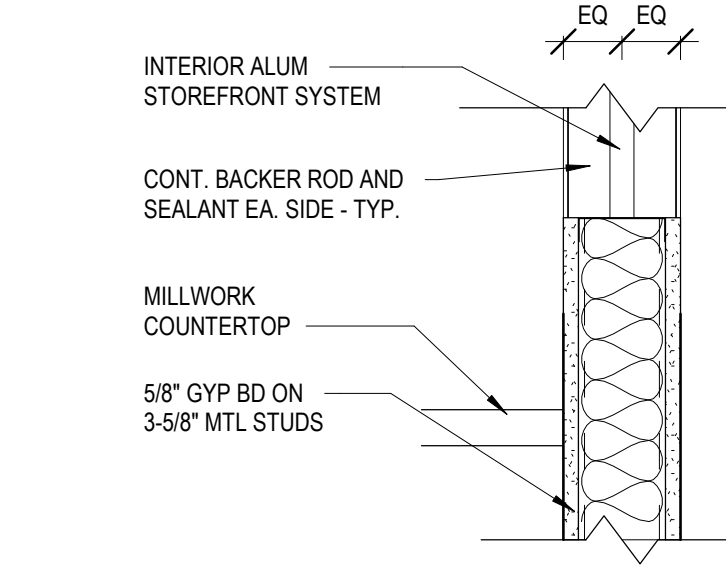
3 ALUMINUM FRAME - JAMB  
1 1/2" = 1'-0"



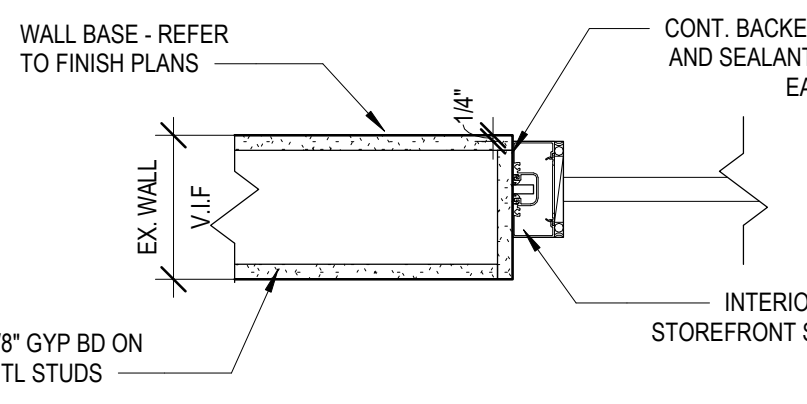
5 ALUMINUM FRAME - HEAD  
1 1/2" = 1'-0"



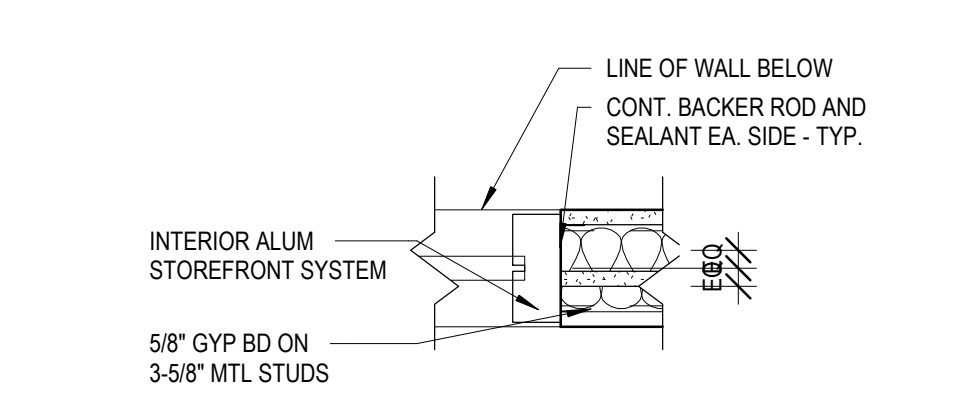
8 WINDOW DETAIL - STOREFRONT - SILL - 1  
1 1/2" = 1'-0"



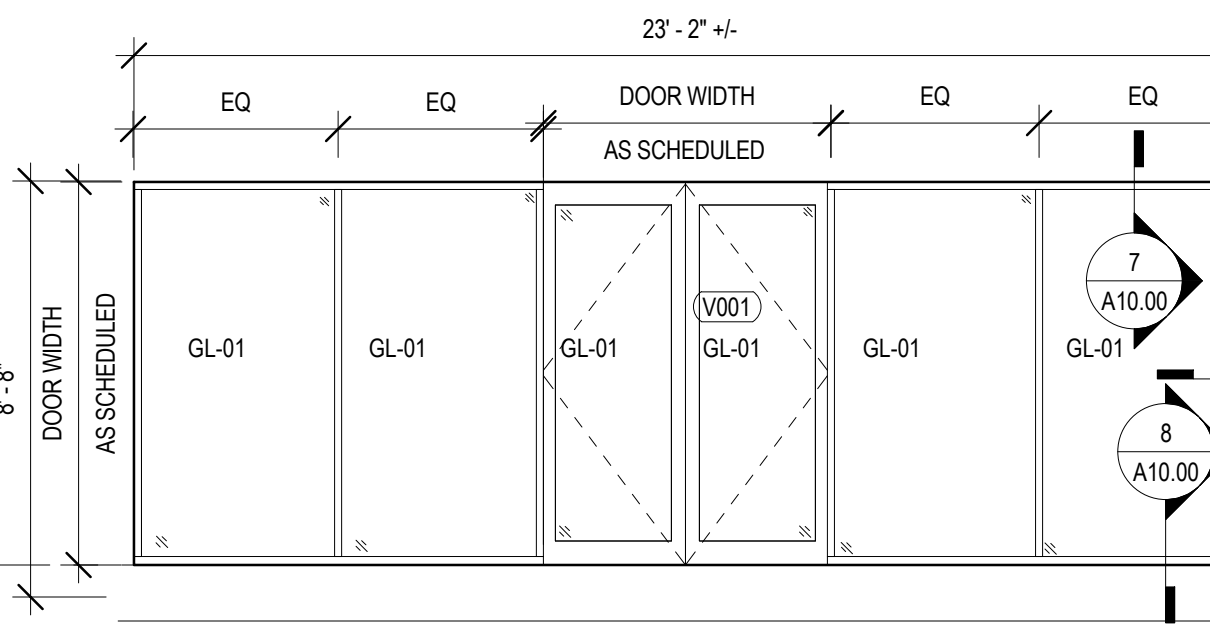
15 WINDOW DETAIL - STOREFRONT - SILL - 2  
1 1/2" = 1'-0"



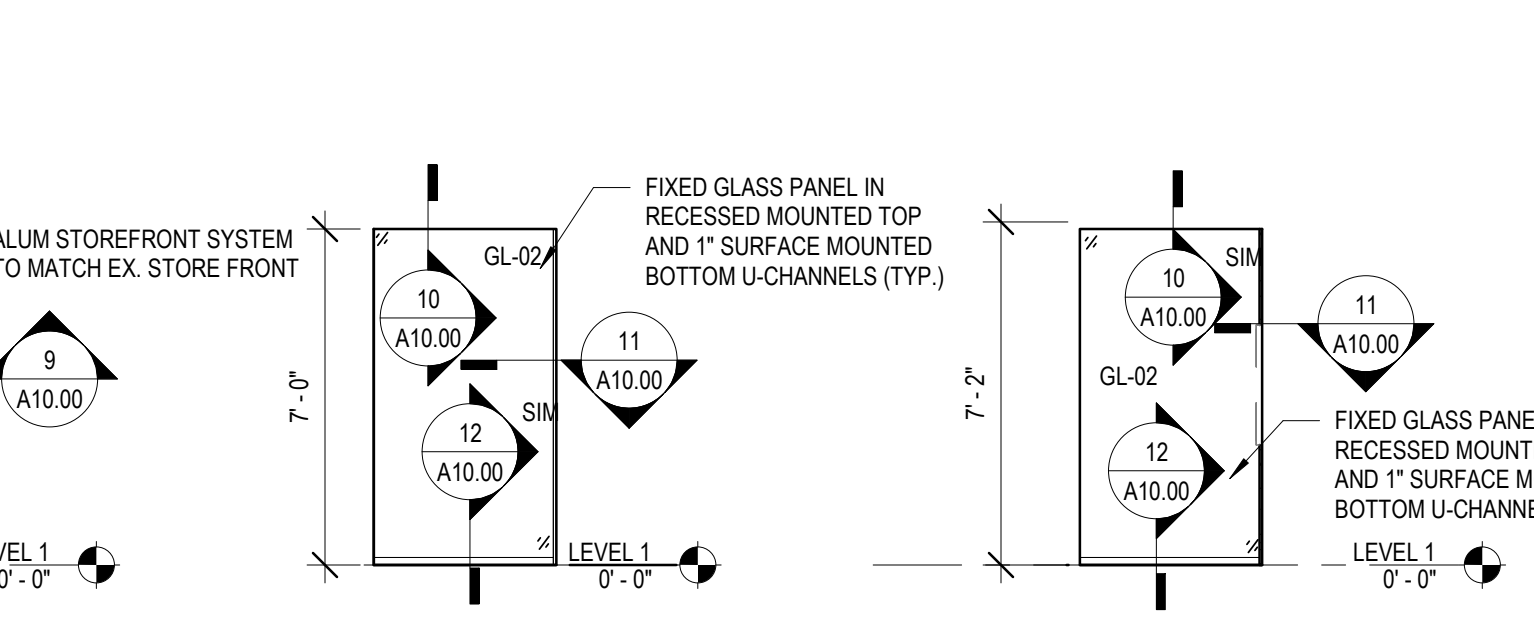
9 WINDOW DETAIL - STOREFRONT - JAMB - 1  
1 1/2" = 1'-0"



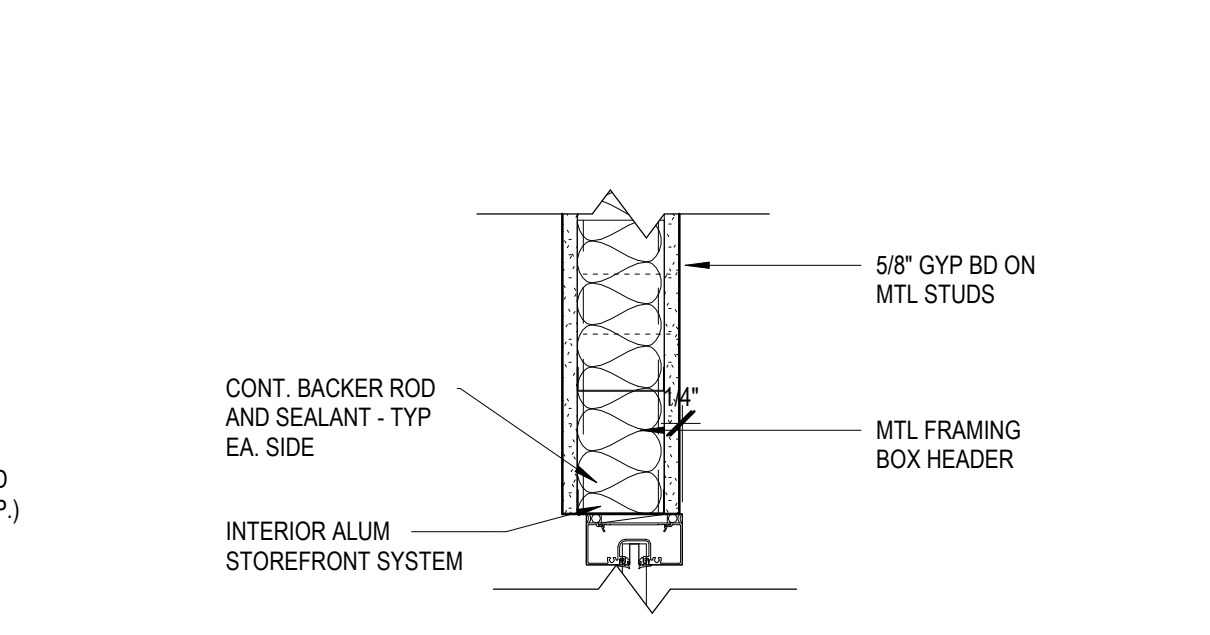
16 WINDOW DETAIL - STOREFRONT - JAMB - 2  
1 1/2" = 1'-0"



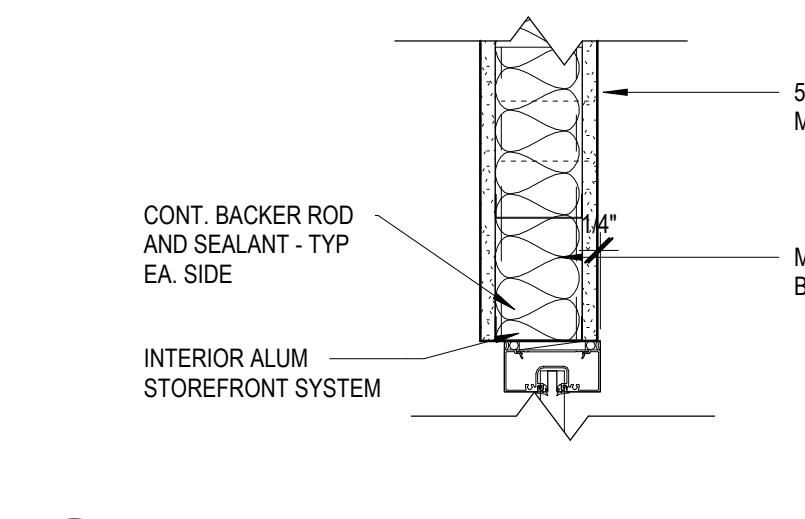
A WINDOW ELEVATION - V001  
1/4" = 1'-0"



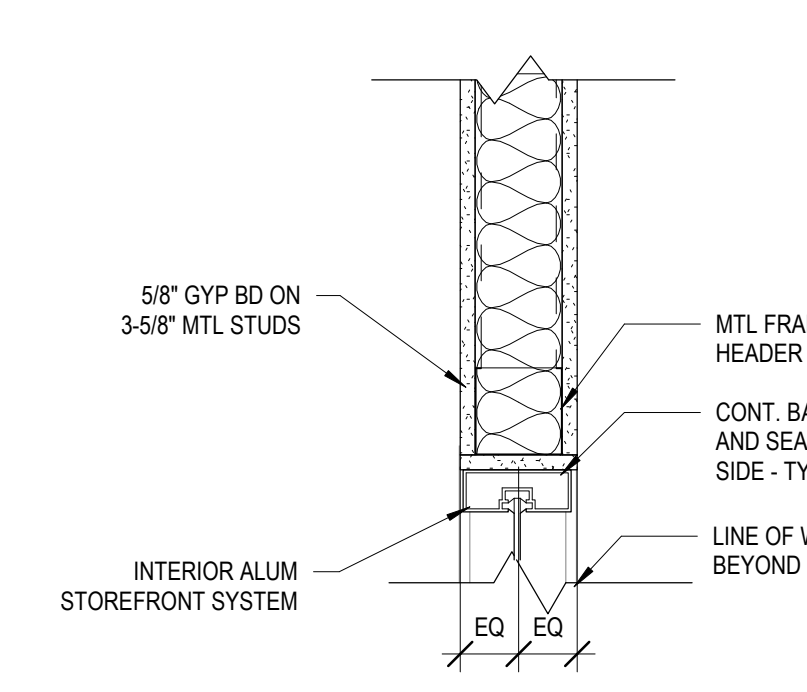
B WINDOW ELEVATION - 106A  
1/4" = 1'-0"



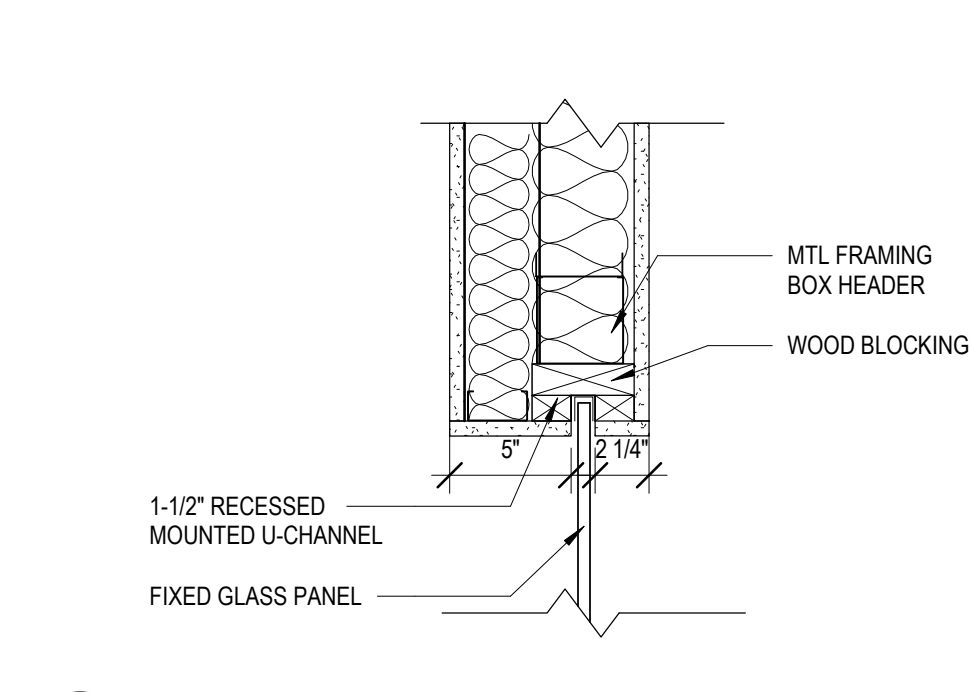
C WINDOW ELEVATION - 106B  
1/4" = 1'-0"



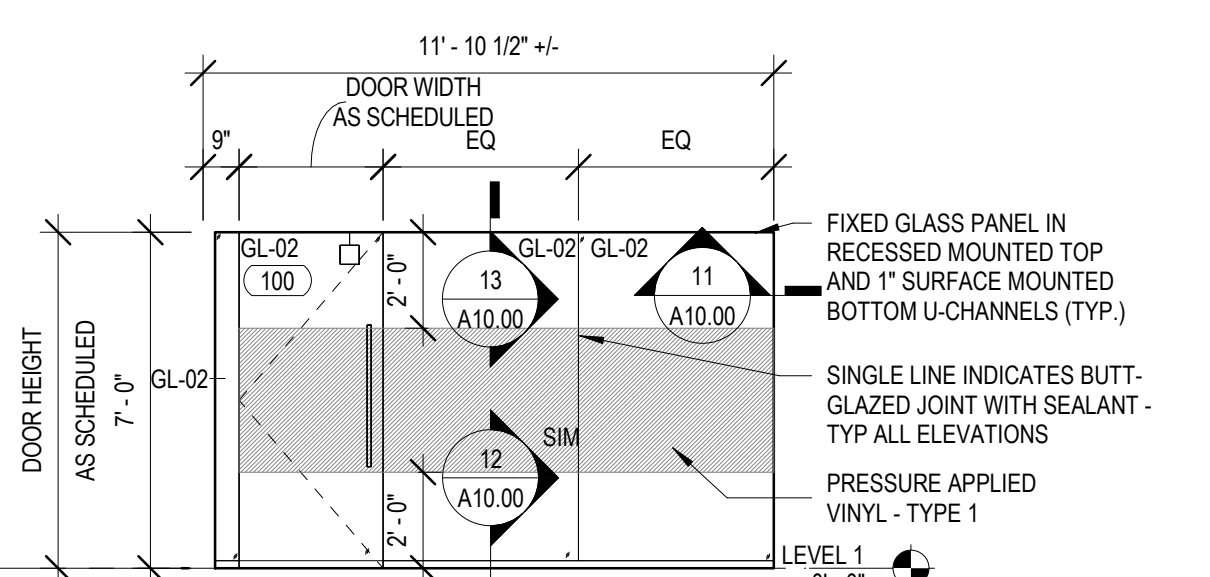
7 WINDOW DETAIL - STOREFRONT HEAD 1  
1 1/2" = 1'-0"



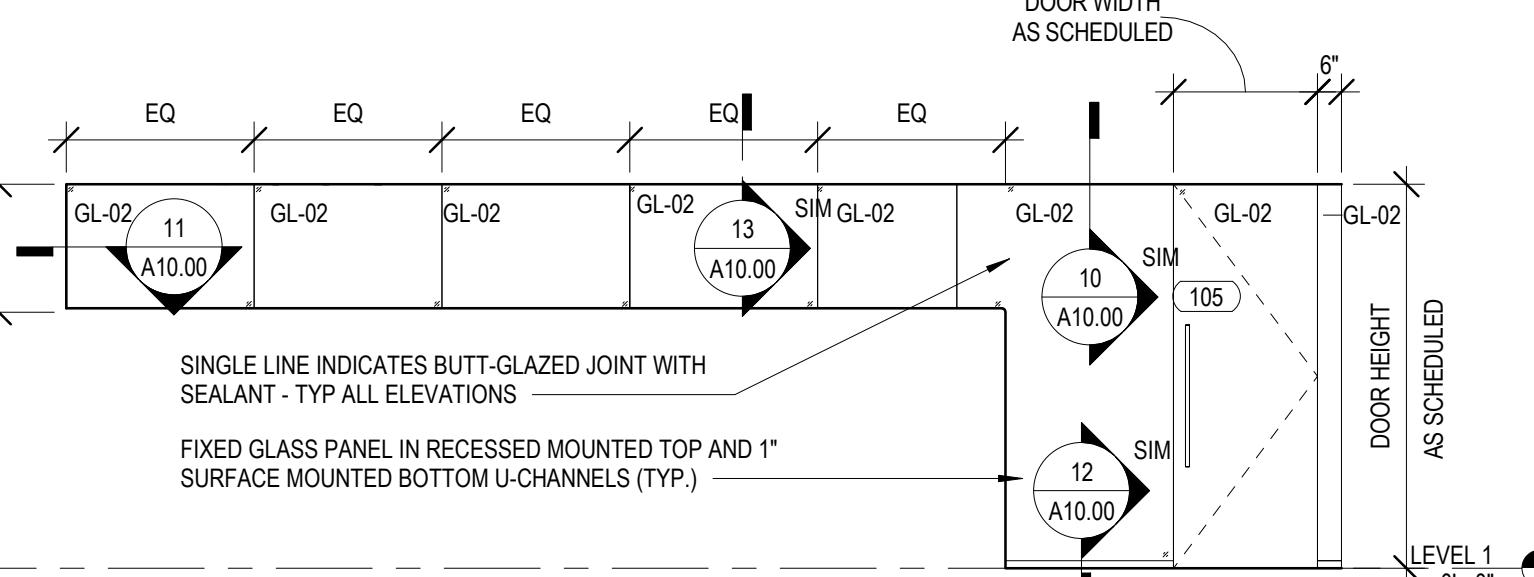
14 WINDOW DETAIL - STOREFRONT - HEAD - 2  
1 1/2" = 1'-0"



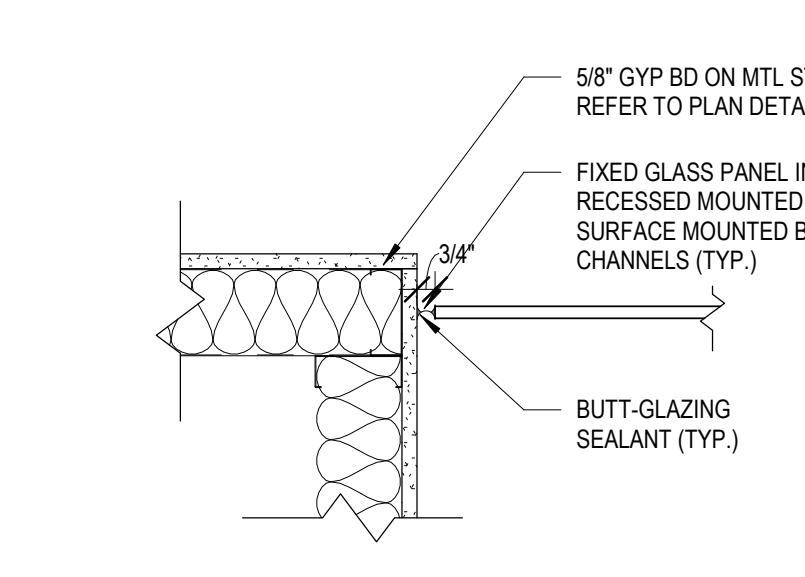
10 WINDOW DETAIL - ALL GLASS HEAD  
1 1/2" = 1'-0"



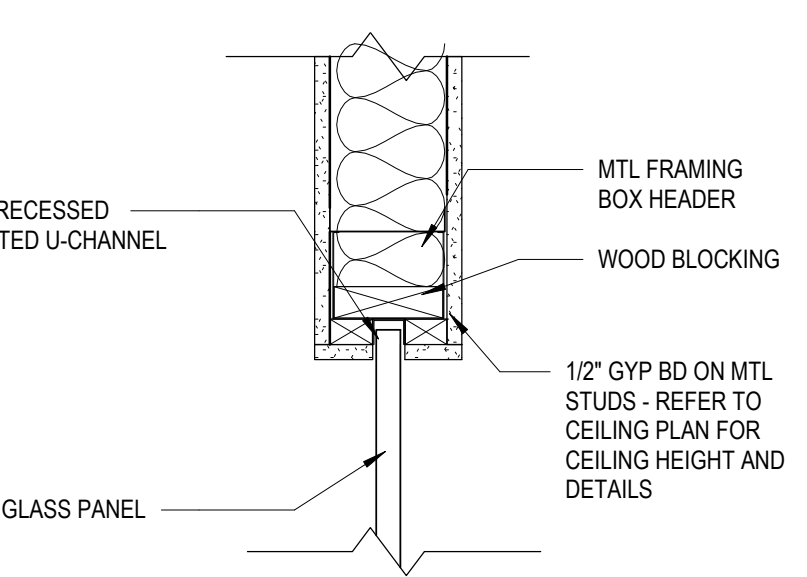
D WINDOW ELEVATION - 100  
1/4" = 1'-0"



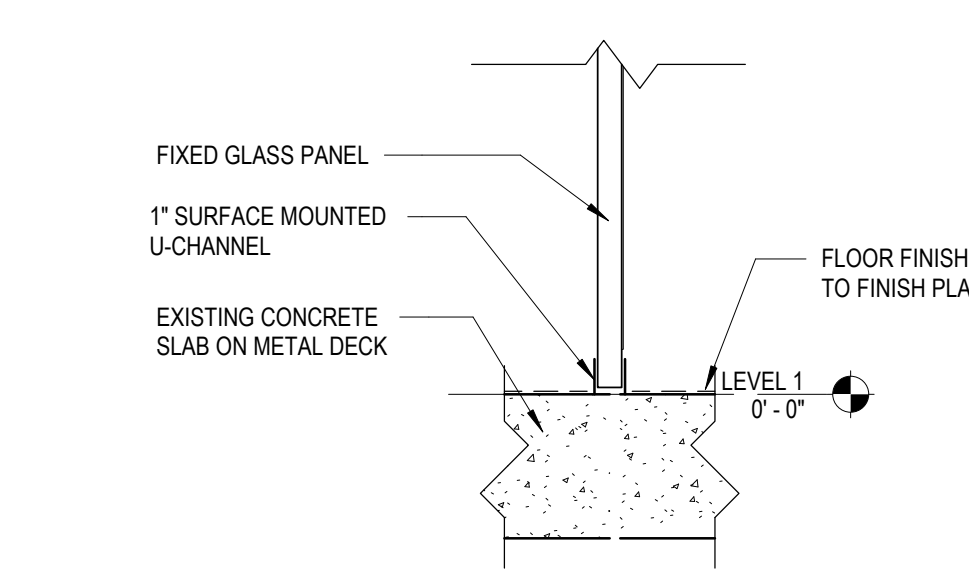
E WINDOW ELEVATION - 105  
1/4" = 1'-0"



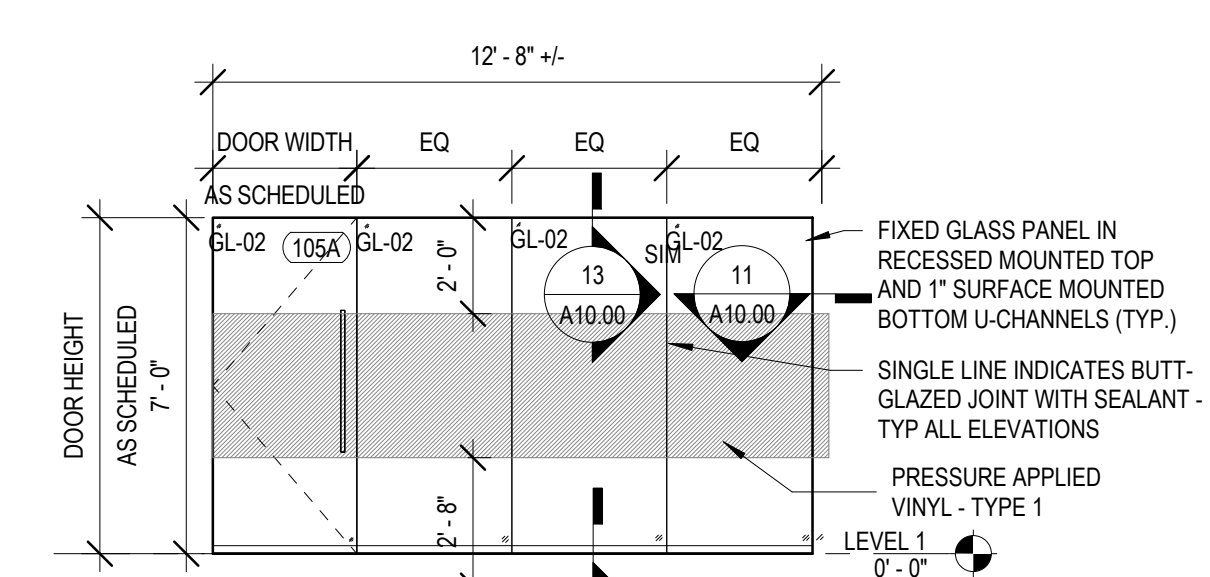
11 WINDOW DETAIL - ALL GLASS JAMB  
1 1/2" = 1'-0"



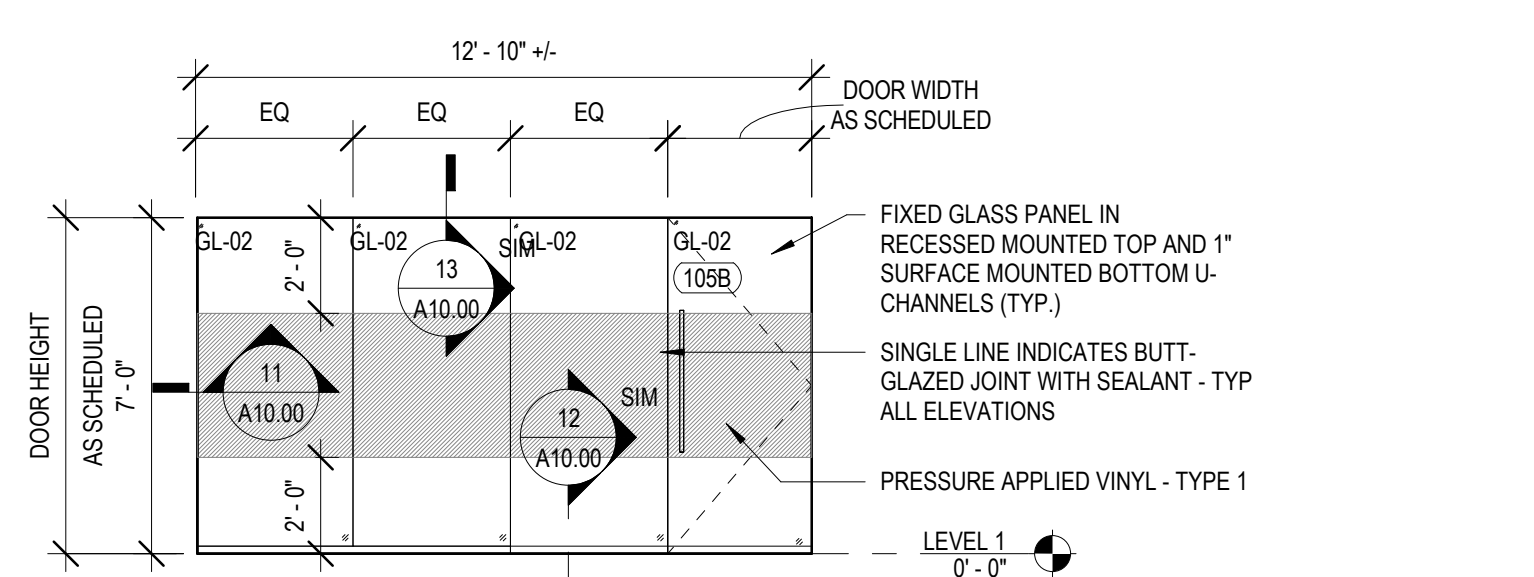
13 WINDOW DETAIL - ALL GLASS HEAD  
1 1/2" = 1'-0"



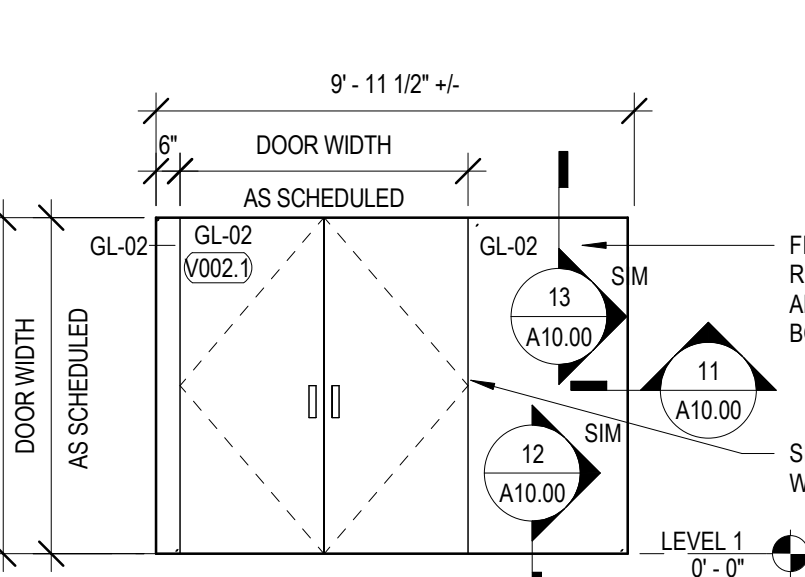
12 WINDOW DETAIL - ALL GLASS SILL  
1 1/2" = 1'-0"



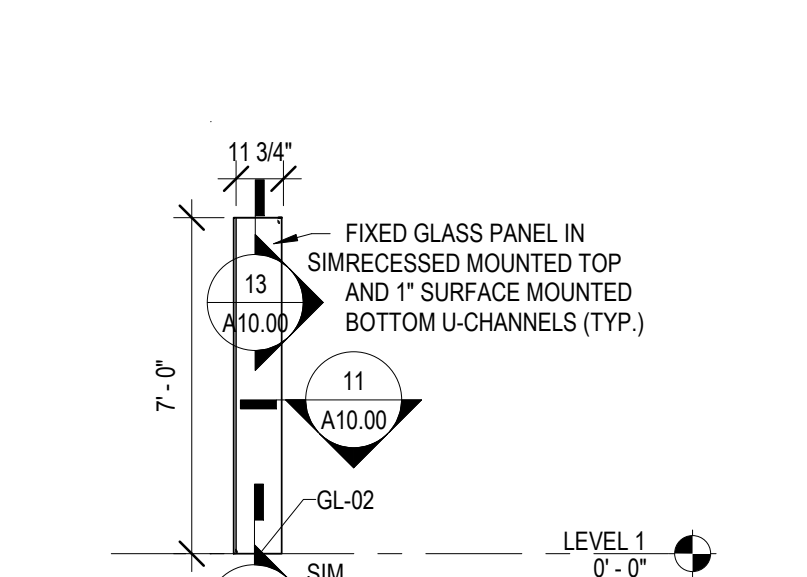
F WINDOW ELEVATION 105A  
1/4" = 1'-0"



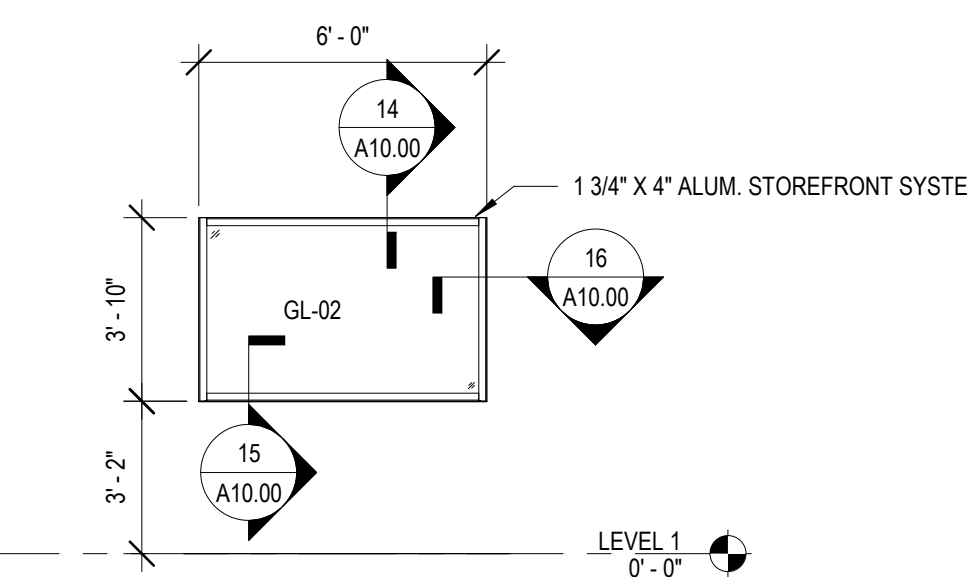
G WINDOW ELEVATION 105B  
1/4" = 1'-0"



H WINDOW DETAIL - ALL GLASS JAMB  
1 1/2" = 1'-0"



I WINDOW DETAIL - ALL GLASS HEAD  
1 1/2" = 1'-0"



J WINDOW DETAIL - ALL GLASS SILL  
1 1/2" = 1'-0"

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**DOOR SCHEDULE, ELEVATIONS, AND DETAILS**

SHEET NUMBER:  
**A10.00**



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-PP-T-ENGINEERS  
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 1216 TOWER ROAD  
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CIVIL ENGINEERS  
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 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE**  
**UNIVERSITY CENTER AT MCC**  
 WOOD VENEER PANEL  
 222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**FINISH PLAN**

SHEET NUMBER:  
**A11.01**

9/22/2023 2:19:00 PM

**FINISH PLAN SYMBOLS LEGEND:**

- (X) WALL FINISH TYPE
- (X) WALL BASE TYPE
- (X) FLOOR FINISH TYPE

**FINISH PLAN GENERAL NOTES:**

- PAIN ALL EXPOSED CONDUIT, DUCTWORK, PIPING, ETC. IN ALL FINISHED SPACES. (PT-7) REFER TO INTERIOR FINISH PLANS AND REFLECTED CEILING PLANS FOR CLARIFICATIONS.
  - PAIN ALL EXPOSED METAL ON EXTERIOR INCLUDING, BUT NOT LIMITED TO: CONDUIT, PIPING, FLASHING, MECHANICAL FLUES AND DUCTS, AND HOLLOW METAL FRAMES AND DOORS.
  - PROVIDE CEMENTITIOUS SELF-LEVELING UNDERLAYMENT AT REMOVAL OF EXISTING FLOOR DRAINS AS REQUIRED TO PROVIDE A LEVEL SUBSTRATE FOR NEW FLOOR FINISH.
  - ALL FINISHES ARE MONUMENTAL PER ROOM UNLESS NOTED OTHERWISE. HOLLOW METAL DOORS AND FRAMES TO BE PAINTED W-2 UNLESS NOTED OTHERWISE. EXISTING HM FRAMES/DOORS WITHIN SCOPE TO BE REPAINTED/TOUCHED AS NEEDED WITH PT-3 U.S.G.
- AT ALL LOCATIONS WHERE CASEWORK IS TO BE INSTALLED, THE SUBSEQUENT BASE TYPE SPECIFIED FOR EACH ROOM SHALL BE INSTALLED OVER CASEWORK TOE KICKS UNLESS NOTED OTHERWISE. REFER TO FLOOR PLANS FOR CASEWORK LOCATIONS.
  - PAIN ALL GYP. BD. CEILINGS PT-1 UNLESS NOTED OTHERWISE.
  - ALL CARPET TILE TO BE INSTALLED QUARTER TURNED UNLESS SPECIFIED OTHERWISE.

**WALL FINISH TYPES:**

TYPE	DESCRIPTION	MANUFACTURER	NAME#/COLOR
PT-1	GENERAL PAINT	BENJAMIN MOORE	2176-70 CHALK WHITE
PT-2	ACCENT PAINT	BENJAMIN MOORE	NAVY BLUE
PT-3	ACCENT PAINT	BENJAMIN MOORE	SQUIRREL TAIL 1478
PT-4	ACCENT PAINT	BENJAMIN MOORE	2188-69 ABLONE
PT-5	ACCENT PAINT	BENJAMIN MOORE	WATERFALL 2050-50
PT-6	ACCENT PAINT	BENJAMIN MOORE	1610- FRENCH BERT
PT-7	ACCENT PAINT	BENJAMIN MOORE	1631 MIDNIGHT OIL
PT-8	ACCENT PAINT	BENJAMIN MOORE	1599 MARINA GRAY
WC-1	VINYL WALLCOVERING	WOLF-GORDON	HOLBORN
WC-2	VINYL WALLCOVERING	MOMENTUM	OCEAN DRIVE CAVALIER
WT-1	PORCELAIN TILE	FLORIDA TILE	SOHO CANVAS WHITE
LWP	LINEAR WOOD PANEL		SEE SPEC
WD-1	WOOD VENEER PANEL		RIFT CUT WALNUT VENEER OVER MDF, STAINED TO MATCH ARCHITECT'S SAMPLE (DARK)
WD-2	WOOD VENEER PANEL		RIFT CUT WHITE OAK VENEER OVER MDF, STAINED TO MATCH ARCHITECT'S SAMPLE (LIGHT)

**WALL BASE TYPES:**

TYPE	DESCRIPTION	MANUFACTURER	NAME#/COLOR
RB1	4TH COVER RUBBER BASE	JOHNSONITE	63 BURNT UMBER
RB2	4TH STRAIGHT RUBBER BASE	JOHNSONITE	63 BURNT UMBER
RN	RUBBER NOSING RCN-XX-A	JOHNSONITE	63 BURNT UMBER

**FLOOR FINISH TYPES:**

TYPE	DESCRIPTION	MANUFACTURER	NAME#/COLOR
CPT-1	CARPET TILE	PATCRAFT	10467 SLOPE 00450 POINT INSTALL: MONOLITHIC
CPT-2	CARPET TILE	PATCRAFT	10468 RISE 00500 RATIO INSTALL: STAGGER
CPT-3	CARPET TILE	PATCRAFT	10465 RISE 00450 POINT INSTALL: STAGGER
T-1	PORCELAIN TILE	TBD	TBD
T-3	PORCELAIN TILE	CROSSVILLE	ALASKA
SC	SEALED CONCRETE	SEE SPEC	COLOR/CLEAR
LVT-1	LUXURY VINYL TILE	TBD	TBD
WD-1	WOOD FLOOR	TBD	TBD
QT-1	QUARTZ TILE	LUPOFLOOR	MOZAIC CONGLOMERATE GREY

**FLOOR TRANSITION TYPES:**

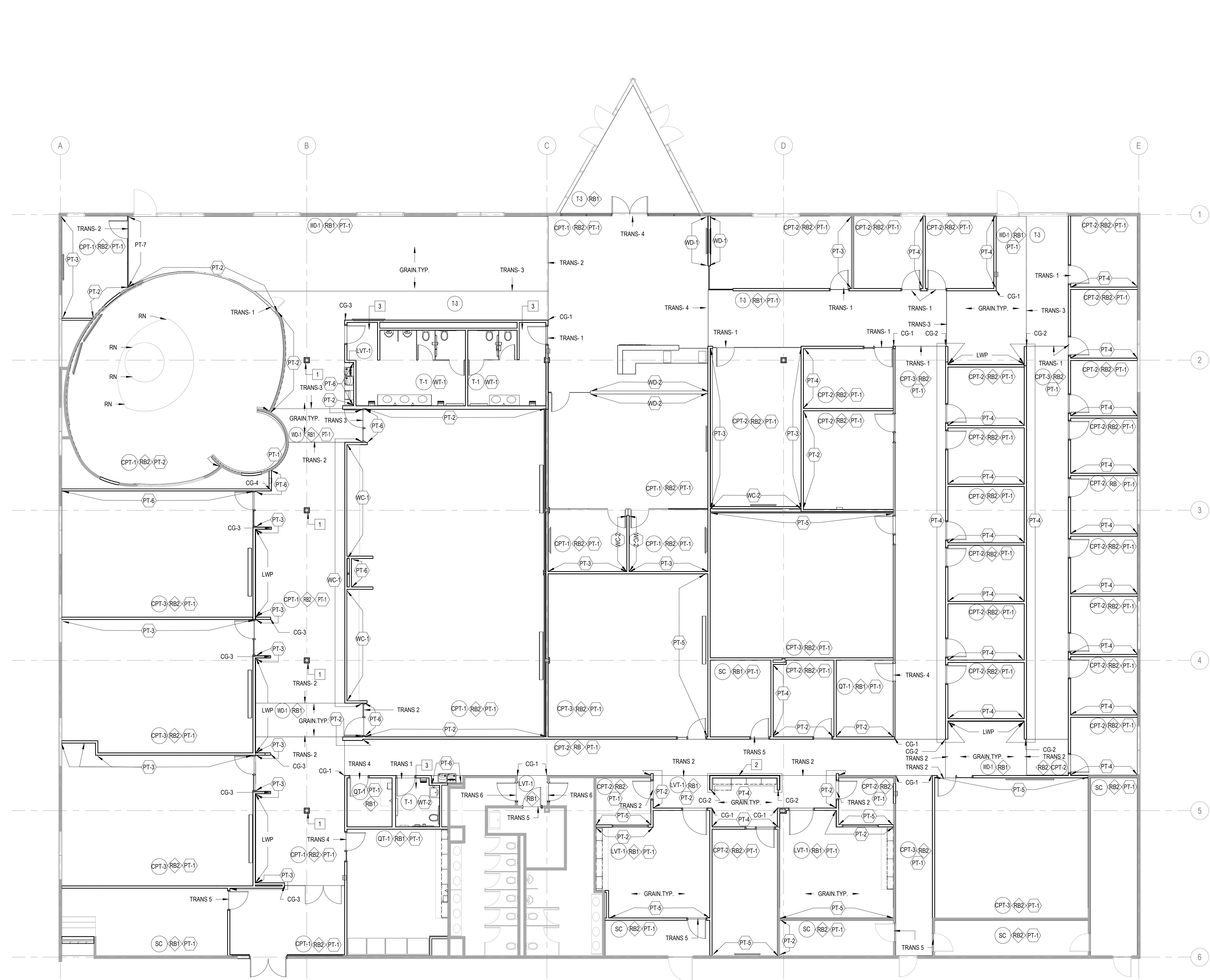
TYPE	DESCRIPTION	MANUFACTURER	NAME#/COLOR
TRANS-1	TILE TO CARPET OR 1/2" TO 1/2"	JOHNSONITE	JOHNSONITE SUBFLOOR LEVELER TO BRING ADJACENT SURFACES FLUSH AND PROVIDE SCHLUTER SCHEME BETWEEN FLOOR TYPES.
TRANS-2	CARPET TO WOOD OR 1/2" TO 1/2"	JOHNSONITE	JOHNSONITE SUBFLOOR LEVELER TO BRING ADJACENT SURFACES FLUSH AND PROVIDE SCHLUTER SCHEME BETWEEN FLOOR TYPES.
TRANS-3	WOOD TO TILE OR 1/2" TO 1/2"	SCHLUTER	SCHLUTER SCHEME
TRANS-4	CARPET TO QUARTZ TILE OR 1/2" TO 1/2"	TARKETT	SLIM LINE TRANSITION SLT-XX-A
TRANS-5	CARPET OR LVT TO SEALED CONCRETE OR 1/2" TO 0"	TARKETT	SLIM LINE TRANSITION SLT-XX-L
TRANS-6	LVT TO EXISTING TILE OR 1/2" TO 1/2" REDUCER	TARKETT	JOHNSONITE REDUCER CRS-XX-A

**CORNER GUARD**

TYPE	MANUFACTURER	NAME#/COLOR
CG-1	INPRO	3/2" X 3/2" ADHESIVE MOUNTED, 4H. COLOR: DESIGNER WHITE 101
CG-2	INPRO	1/2" X 1/2" ADHESIVE MOUNTED, 4H. COLOR: TAUPE 0113
CG-3	INPRO	1/2" X 1/2" ADHESIVE MOUNTED, 4H. COLOR: MONSOON 0378
CG-4	INPRO	1/2" X 1/2" ADHESIVE MOUNTED, 4H. COLOR: CASTLE 0266

**FINISH PLAN REFERENCED NOTES:**

- PAIN COLUMN WITH PT-6 AND RB BASE.
- REFER TO INTERIOR ELEVATIONS FOR EXTENT OF LWP.
- PROVIDE SCHLUTER DILEX-4HK AT ALL TILE FLOOR PERIMETER BETWEEN FLOOR AND WALL TILE AND VERTICAL INSIDE TILE CORNERS. PROVIDE SCHLUTER JOLLY AT ALL OUTSIDE TILE CORNERS.



**1 FINISH PLAN**  
 1/8" = 1'-0"

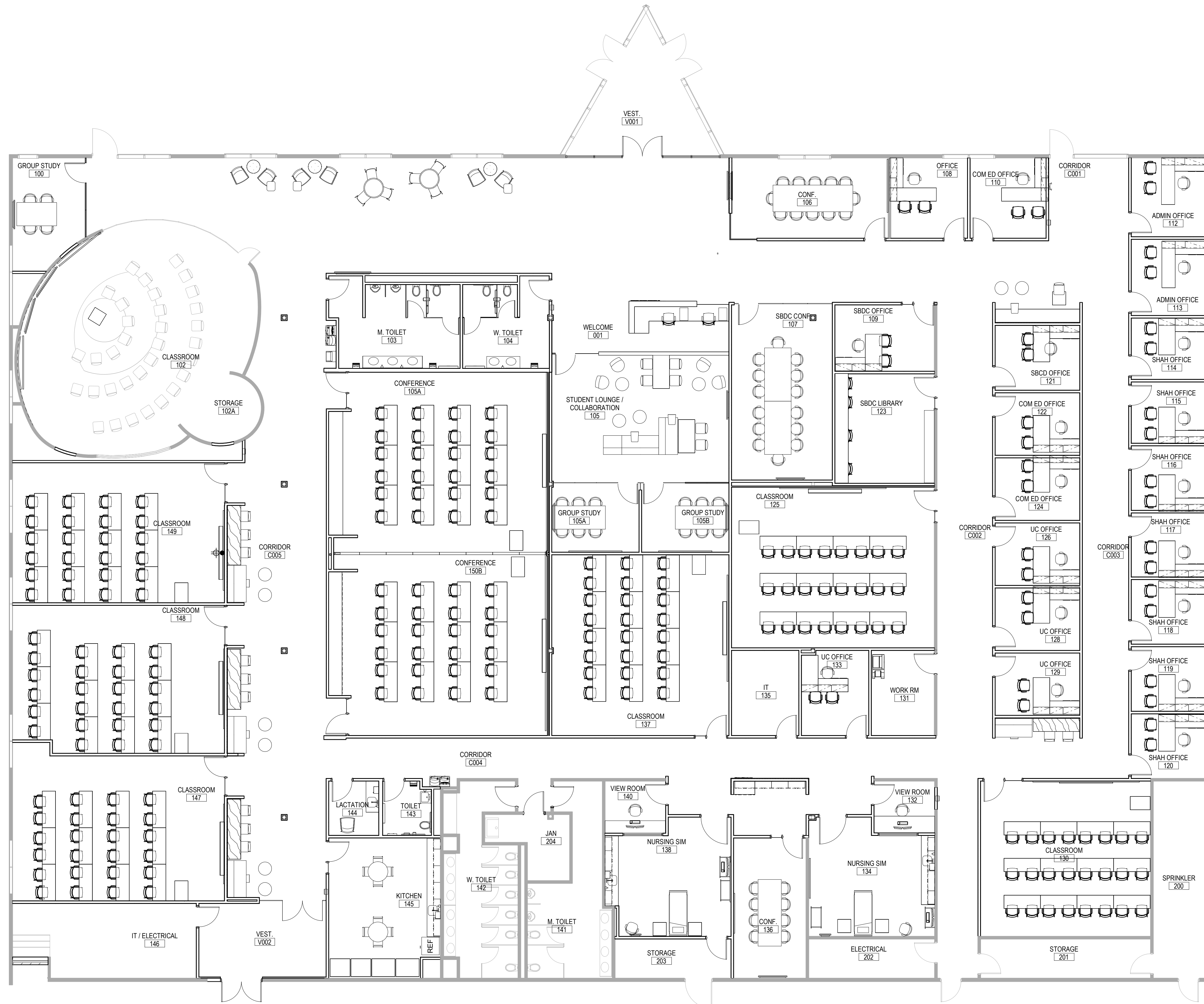


ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE  
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 222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050



1 FURNITURE PLAN  
 1/8" = 1'-0"

KEY PLAN:

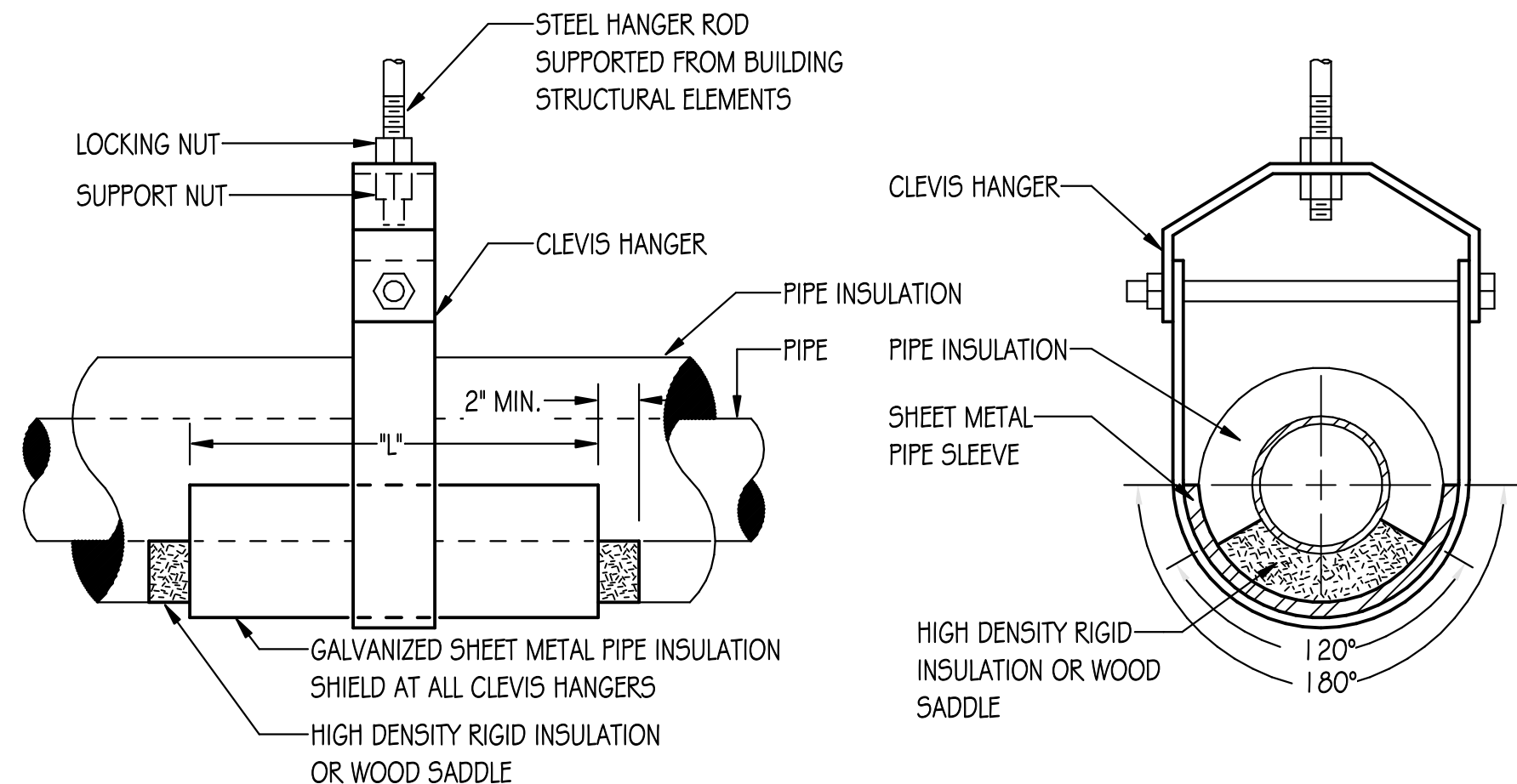
SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**FURNITURE PLAN  
 (FOR REFERENCE  
 ONLY)**

SHEET NUMBER:  
**A12.01**

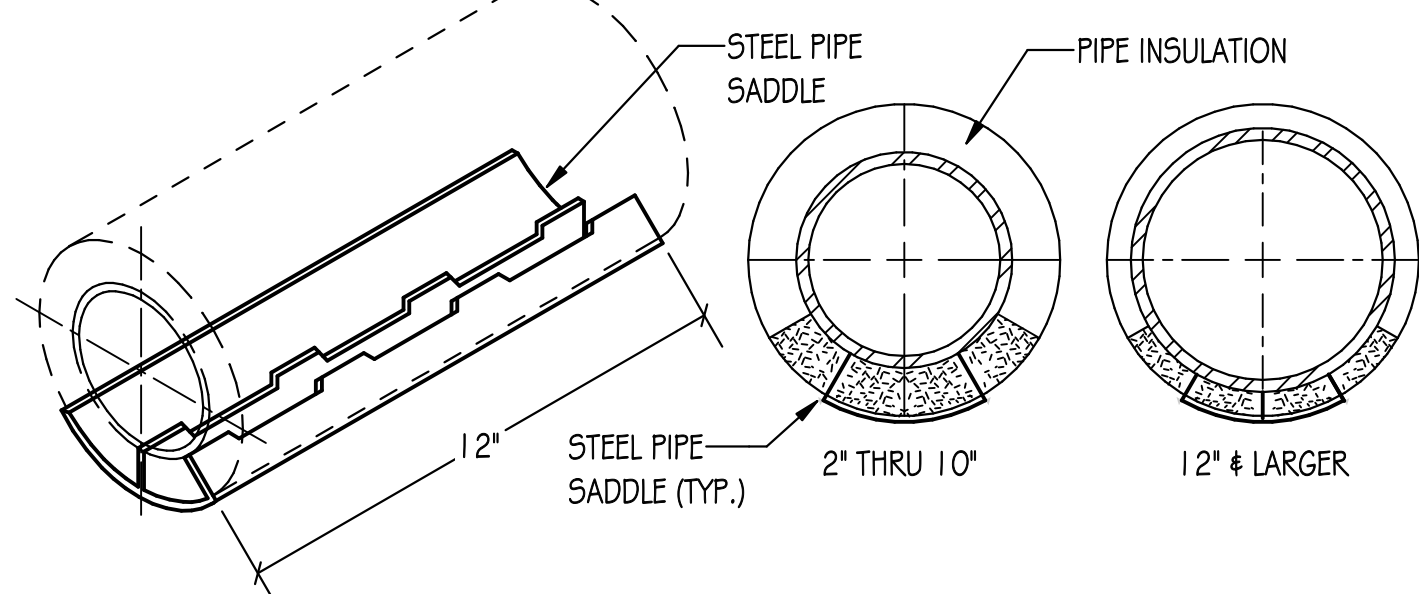
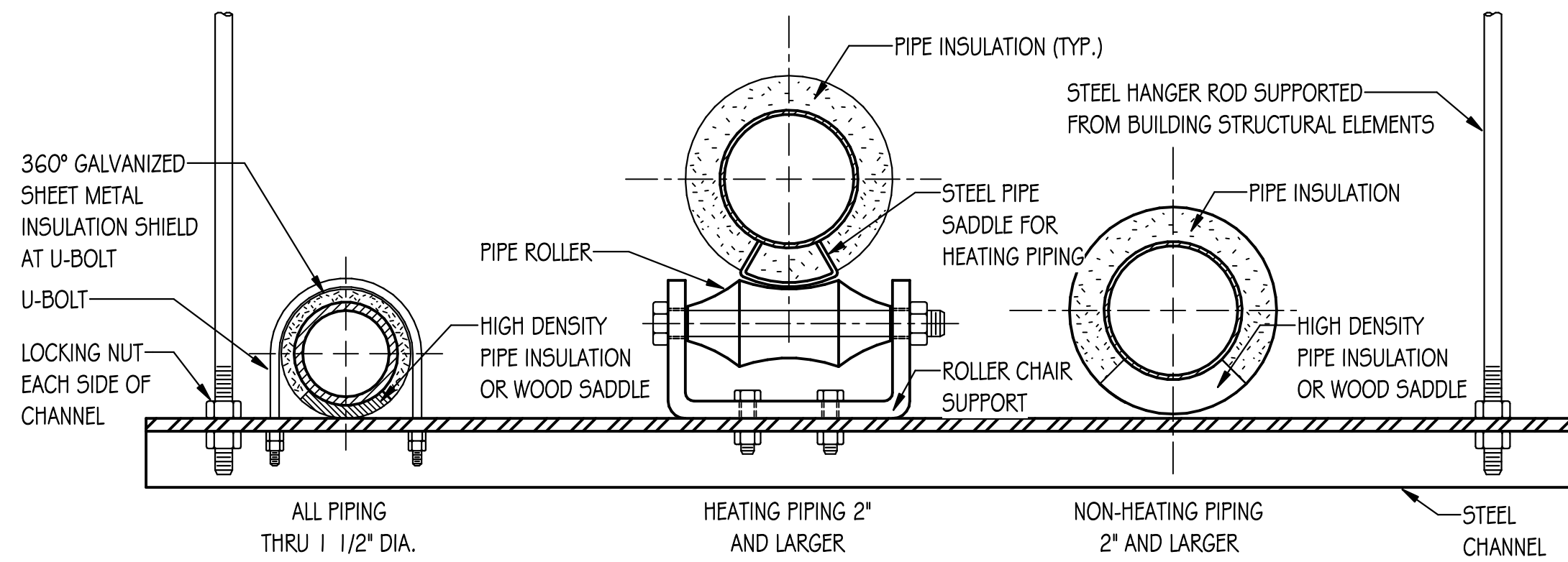




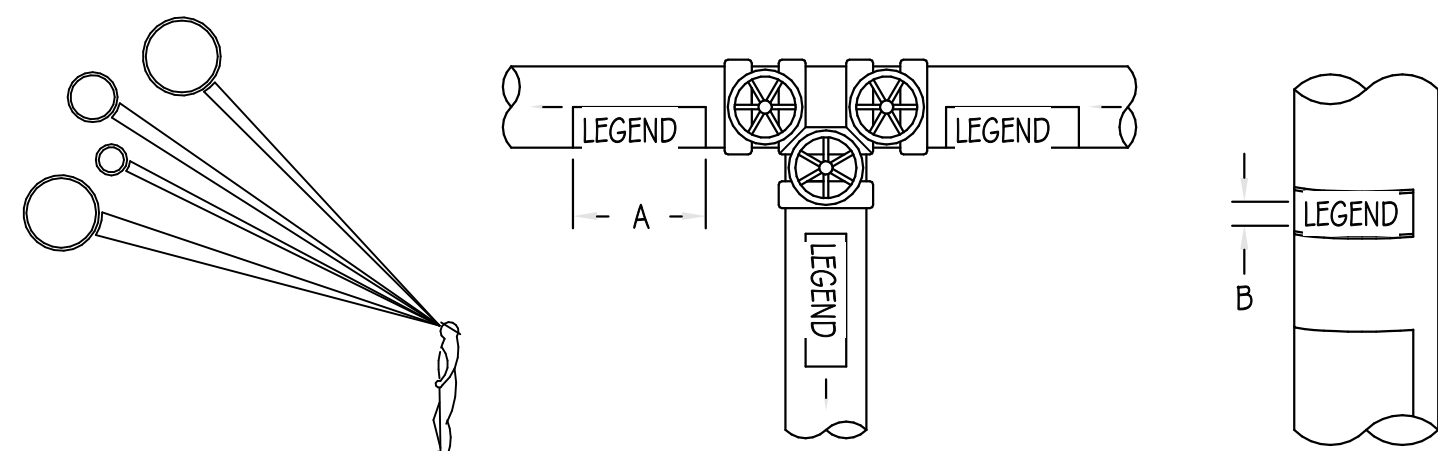
**CLEVIS HANGER**

PIPE INSULATION SHIELD SCHEDULE		
PIPE SIZE	LENGTH	GAUGE
UP TO 3/4"	8"	20 GA.
1" - 2"	12"	18 GA.
2 1/2" - 4"	12"	16 GA.
5" & 6"	18"	16 GA.
8" & UP	24"	14 GA.

NOTE: 1. CONFER WITH ARCHITECT AND REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON ACCEPTABLE METHODS AND LOCATIONS FOR HANGER SUPPORTS



**TYPICAL PIPE HANGER DETAILS**  
NO SCALE



NOTE: IDENTIFICATION MARKERS OR STRIPS TO BE PLACED ON ALL EXPOSED COVERED AND UNCOVERED PIPES AT 50'-0" INTERVALS, ADJACENT TO ALL VALVES OR BRANCHES, AND AT BOTH SIDES OF WALL/FLOOR PENETRATIONS. ARROWS OF SAME COLOR AS IDENTIFICATION MARKERS SHALL ALSO BE PLACED ON PIPES POINTING AWAY FROM MARKER INDICATING DIRECTION OF FLOW.

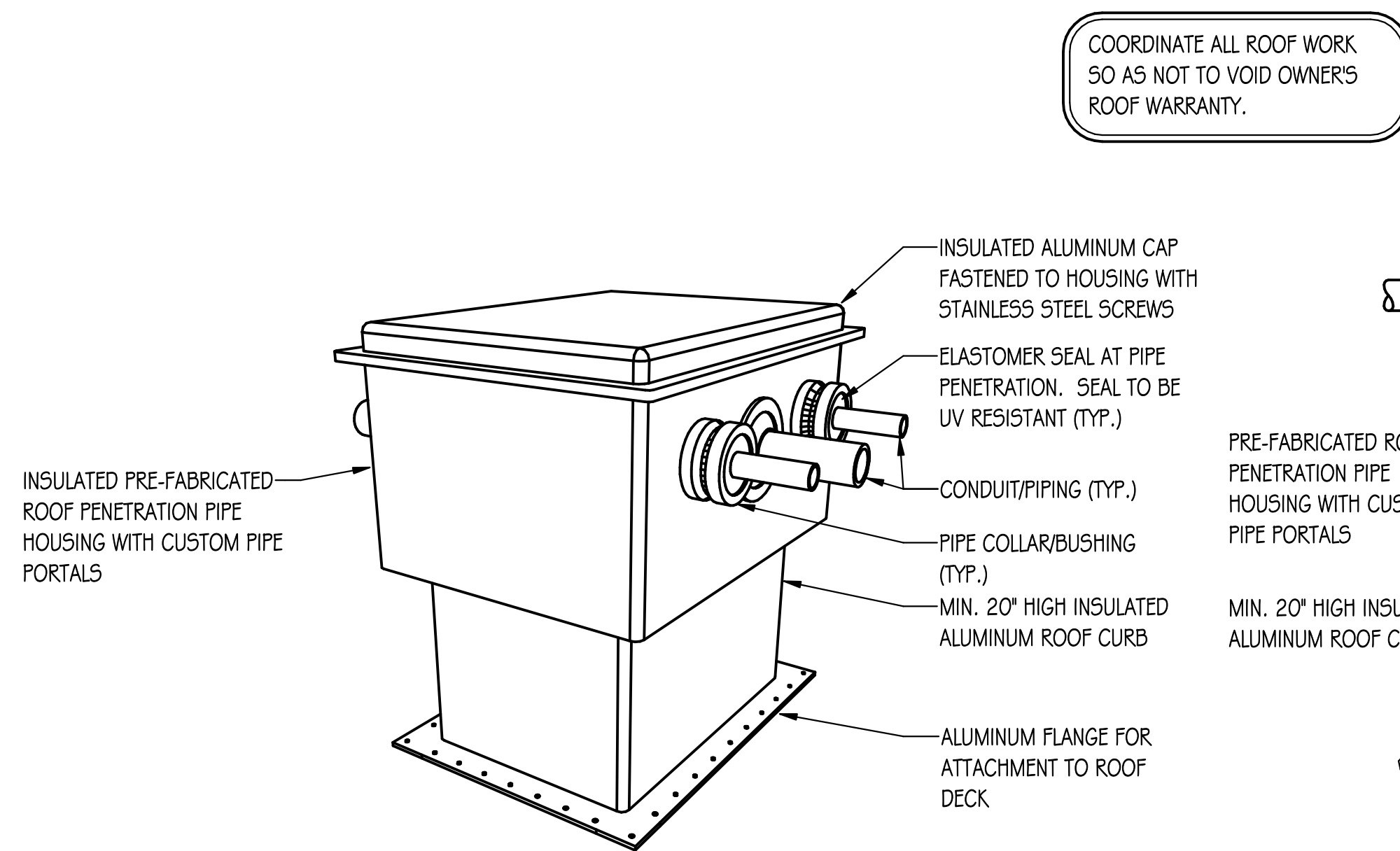
SIZE OF LEGEND LETTERS		
OUTSIDE DIAMETER OF PIPE OR COVERING	LENGTH OF COLOR FIELD	SIZE OF LETTERS
3/4" TO 1 1/4"	8"	1/2"
1 1/2" TO 2"	8"	3/4"
2 1/2" TO 6"	12"	1 1/4"
8" TO 10"	24"	2 1/2"
OVER 10"	32"	3 1/2"

SERVICE	BACKGROUND OR COLOR BAND	LETTER COLOR
COMPRESSED AIR	SAFETY BLUE	WHITE
CONDENSATE	SAFETY GREEN	WHITE
REFRIGERANT SUCTION	SAFETY ORANGE	BLACK
REFRIGERANT LIQUID	SAFETY ORANGE	BLACK
NATURAL GAS	SAFETY YELLOW	BLACK
NATURAL GAS VENT	SAFETY YELLOW	BLACK
SANITARY DRAIN	SAFETY GREEN	WHITE
PLUMBING VENT	SAFETY GREEN	WHITE
STORM WATER	SAFETY GREEN	WHITE
CITY WATER	SAFETY GREEN	WHITE
DOMESTIC COLD WATER	SAFETY GREEN	WHITE
DOMESTIC HOT WATER	SAFETY GREEN	WHITE
DOMESTIC HOT WATER CIRC.	SAFETY GREEN	WHITE
OXYGEN	SAFETY WHITE	GREEN
VACUUM	SAFETY GREEN	WHITE
FIRE PROTECTION (SPRINKLER)	SAFETY RED	WHITE

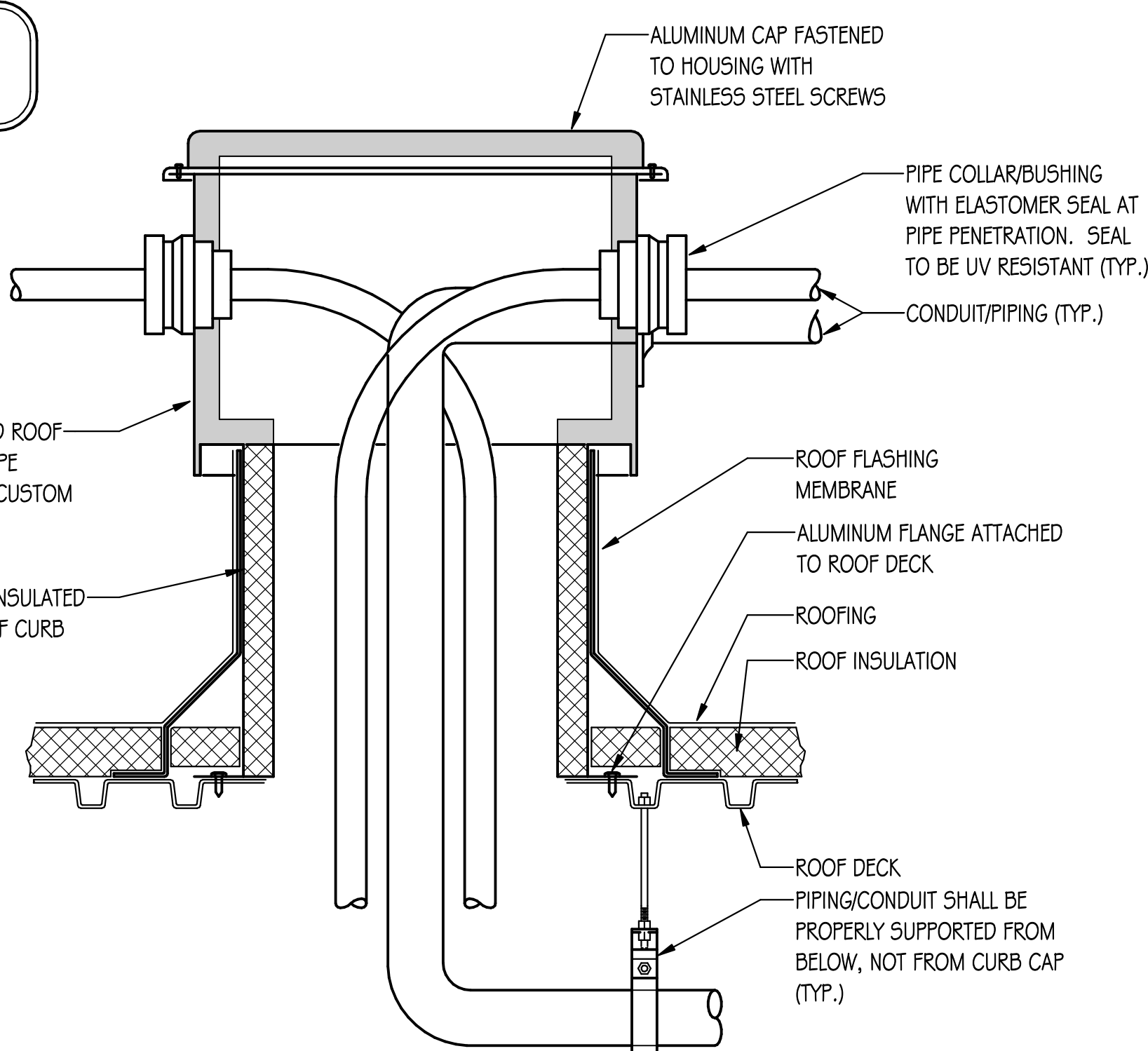
**TYPICAL PIPE IDENTIFICATION MARKERS**  
NO SCALE

**GENERAL REMODELING NOTES - ALL CONTRACTORS**

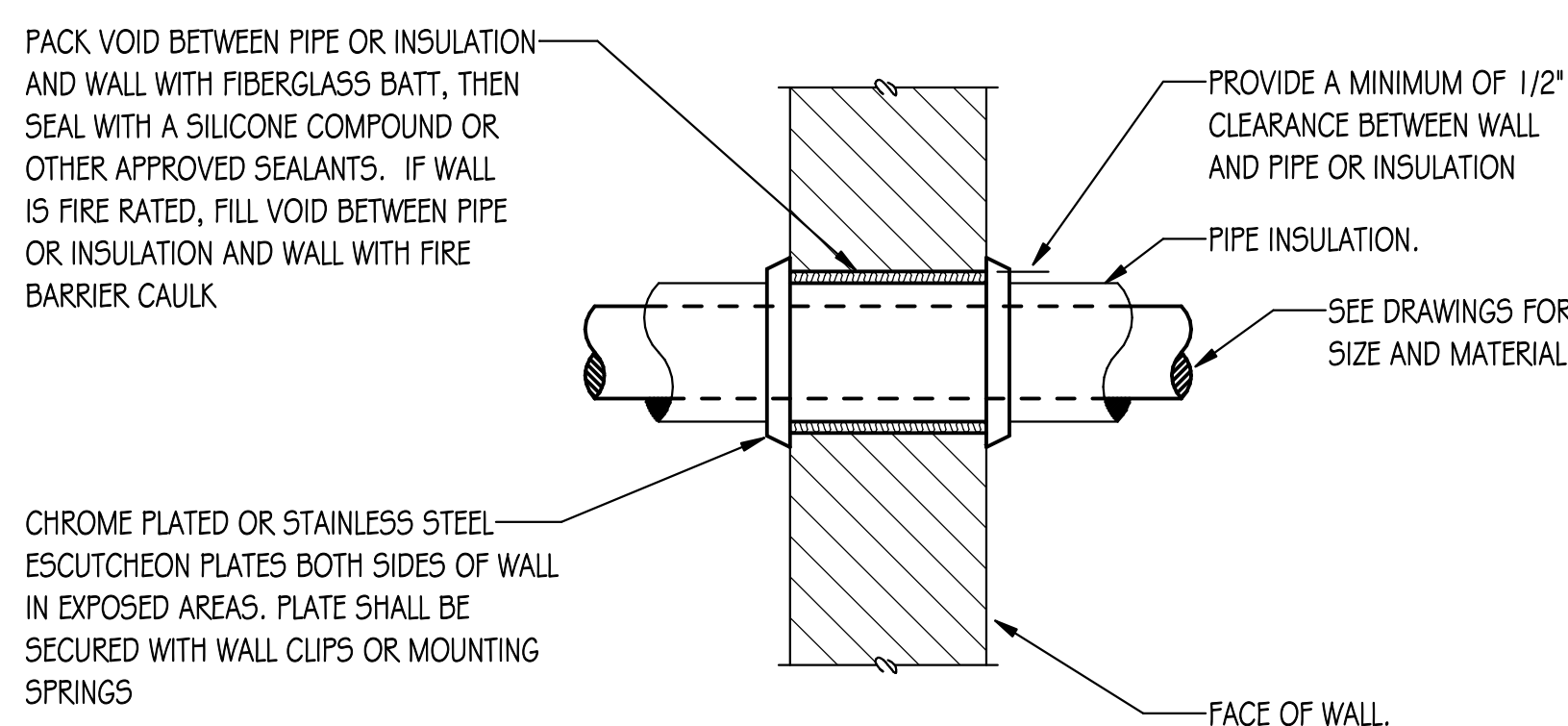
- ALL WORK SHOWN ON DRAWINGS SHALL BE CONSIDERED NEW AND IN CONTRACT UNLESS SPECIFICALLY INDICATED OTHERWISE.
- DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING, DUCTWORK, CONDUITS, RACEWAYS, ETC., AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. EACH CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN COMPLETION DATE OF THE PROJECT.
- IT IS INTENDED THAT EQUIPMENT SHALL BE LOCATED SYMMETRICALLY WITH THE ARCHITECTURAL ELEMENTS OF THE BUILDING, NOTWITHSTANDING THE FACT THAT LOCATIONS INDICATED BY THESE DRAWINGS MAY BE DISTORTED FOR CLARITY OF PRESENTATION.
- CONTRACTOR SHALL CHECK DRAWINGS OF OTHER TRADES TO VERIFY THAT SPACES IN WHICH THEIR WORK WILL BE INSTALLED ARE CLEAR OF OBSTRUCTIONS. WORK SHALL BE INSTALLED TO MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS IN THE BUILDING. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, CONTRACTOR SHALL NOTIFY OWNER/ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION OF THEIR WORK.
- CONTRACTOR SHALL FURNISH OTHER TRADES ADVANCE INFORMATION AND/OR SHOP DRAWINGS ON LOCATIONS AND SIZES OF PIPING, DUCTWORK, CONDUIT, RACEWAYS, EQUIPMENT, FRAMES, BOXES, SLEEVES AND OPENINGS, ETC. NEEDED FOR THEIR WORK TO PERMIT OTHER TRADES AFFECTED TO INSTALL THEIR WORK PROPERLY AND WITHOUT DELAY.
- WHERE THERE IS EVIDENCE THAT WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, ALL TRADES SHALL MEET ON JOB SITE TO WORK OUT SPACE CONDITIONS AND MAKE SATISFACTORY ADJUSTMENTS TO INSTALLATION OF THE NEW WORK. CONTRACTORS SHALL VERIFY EXACT LOCATIONS OF ALL DEVICES AND EQUIPMENT WITH FIELD CONDITIONS, SHOP DRAWINGS, AND WORK OF OTHER TRADES PRIOR TO ROUGH-IN. EACH CONTRACTOR SHALL BE RESPONSIBLE, AT THEIR OWN EXPENSE, FOR THE REMOVAL AND REINSTALLATION OF ANY PART OF THEIR WORK IF SAME WAS INSTALLED WITHOUT CONSULTING WITH OTHER TRADES BEFORE INSTALLING THEIR WORK.
- CONTRACTOR SHALL PROVIDE SLEEVES IN BEAMS, FLOORS, COLUMNS AND WALLS AS SHOWN ON THE DRAWINGS, AS REQUIRED BY JOB SITE CONDITIONS, AND/OR AS SPECIFIED, WHEN INSTALLING THEIR WORK. ALL BEAMS AND COLUMNS WHICH ARE REQUIRED TO BE SLEEVED SHALL BE CUT AND REINFORCED AS REQUIRED BY FIELD CONDITIONS AND LOCATIONS AND SIZES SHALL BE CHECKED AND APPROVED BY ARCHITECT BEFORE CONTRACTOR CUTS ANY STRUCTURAL BUILDING MEMBER.
- THE SEQUENCE FOR THE INSTALLATION OF ALL WORK SHALL BE COORDINATED BETWEEN ALL CONTRACTORS ON THE PROJECT AND IN STRICT ACCORDANCE WITH ARCHITECT/ENGINEER AND OWNER'S STIPULATION AS DIRECTED.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND STRUCTURAL CONTRACT DRAWINGS (BEFORE SUBMITTING THEIR BIDS) TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE GENERAL CONTRACTOR'S WORK, CEILING HEIGHTS AND CLEARANCE FOR INSTALLING THEIR WORK.
- CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, REPAIRING, REFINISHING AND REMOVAL/REPLACEMENT OF NEW OR EXISTING BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. ALL PATCHING, REPAIRING AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY EXISTING BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK OR REMOVAL OF EXISTING WORK SHALL BE REPAIRED, REPLACED AND PAID FOR BY THE INSTALLING CONTRACTOR, TO THE SATISFACTION OF THE ARCHITECT AND OWNER. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING BUILDING CONSTRUCTION THAT IS TO REMAIN AND, THEREFORE, SUBJECT TO PATCHING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT. (NOTE: CONTRACTOR SHALL VERIFY EXISTING BUILDINGS ROOF WARRANTY AND EMPLOY OTHER SUBCONTRACTOR(S) AS REQUIRED BY ROOF MANUFACTURERS REPRESENTATIVE SO AS NOT TO VOID OWNERS ROOF WARRANTY.)
- SOME OF THE EXISTING ITEMS AND EQUIPMENT SCHEDULED TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER. ANY ITEMS THAT THE OWNER WANTS TO RETAIN SHALL BE REMOVED CAREFULLY SO AS NOT TO DAMAGE THEM. ALL OTHER ITEMS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN CLEAN-UP DURING CONSTRUCTION. IF CONTRACTOR FAILS TO PROVIDE SUCH CLEAN-UP, THE ARCHITECT/ENGINEER WILL DIRECT ANOTHER CONTRACTOR TO PERFORM THE CLEAN-UP AND THE NEGLIGENT CONTRACTOR SHALL PAY THE ASSOCIATED BACK-CHARGES AS DEEMED APPROPRIATE BY THE ARCHITECT/ENGINEER.
- CONTRACTOR SHALL INSTALL ALL AUXILIARY SUPPORTING STEEL AS REQUIRED FOR THE SUPPORTING OF THEIR PIPING, DUCTWORK, CONDUIT, TANKS, EQUIPMENT, ETC. ALL SUPPORTING STEEL FOR ITEMS ABOVE A SUSPENDED CEILING SHALL BE FROM BUILDING STRUCTURAL MEMBERS ONLY.
- IT IS MANDATORY THAT THE COMPLETE EXISTING BUILDING REMAIN IN CONTINUOUS AND NON-INTERRUPTED OPERATION DURING REMODELING/ALTERING OF SAID EXISTING BUILDING. THE SPECIFIC AREA(S) BEING REMODELED/ALTERED AT ANY SCHEDULED TIME ARE OBVIOUSLY EXCLUSIVE OF THIS STATEMENT. SERVICES TO EXISTING BUILDING SHALL BE KEPT IN CONTINUOUS OPERATION INCLUDING POWER, SIGNAL SYSTEMS, LIGHTING, TELEPHONE, HEATING, COOLING, VENTILATING, TEMPERATURE CONTROL, SEWERS AND HOT AND COLD WATER. ANY ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACCOMPLISH CONTRACT WORK SHALL BE ARRANGED WITH THE OWNER A MINIMUM OF TEN (10) WORKING DAYS IN ADVANCE. SUCH INTERRUPTIONS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AS FAR AS TIME INTERVAL IS INVOLVED AND TEMPORARY SERVICES SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT WHERE NECESSARY TO ACCOMPLISH THIS PURPOSE. TEMPORARIES SHALL BE REMOVED BY THE CONTRACTOR ONLY AFTER NEW PERMANENT SERVICES ARE INSTALLED AND FULLY OPERATIONAL.
- UNLESS INDICATED OTHERWISE, THE ARCHITECT/ENGINEER MAKES NO REPRESENTATION AS TO WHETHER OR NOT ANY HAZARDOUS OR CONTAMINATED MATERIALS (INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB'S, CONTAMINATED SOILS, ETC.) ARE PRESENT WITHIN THE EXISTING BUILDING OR ON THE SITE. WORK SHOWN ON THE DRAWINGS AND/OR INDICATED IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED TO CALL FOR CONTACT WITH ANY OF THESE MATERIALS. IF THESE MATERIALS ARE ENCOUNTERED OR SUSPECTED, THE CONTRACTOR SHALL NOT DISTURB THEM AND SHALL CONTACT THE ARCHITECT/ENGINEER IMMEDIATELY.
- WHERE WORK CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS INVOLVES THE REMOVAL OR RELOCATION OF PIPING OR EQUIPMENT CONTAINING REFRIGERANT, ALL REFRIGERANT SHALL BE RECOVERED BY APPROVED METHODS PER EPA REGULATIONS.
- CONTRACTOR SHALL STORE ALL MATERIALS AND EQUIPMENT SHIPPED TO THE SITE IN A PROTECTED AREA. IF MATERIAL IS STORED OUTSIDE OF THE BUILDING, IT MUST BE STORED OFF THE GROUND A MINIMUM OF SIX INCHES (6") SET ON 6 X 6 PLANKS AND/OR WOOD PALLETS. ALL MATERIAL AND EQUIPMENT MUST BE COMPLETELY COVERED WITH WATERPROOF TARP OR VISQUIN. ALL PIPING AND DUCTWORK WILL HAVE THE ENDS CLOSED TO KEEP OUT DIRT AND OTHER DEBRIS. NO EQUIPMENT WILL BE ALLOWED TO BE STORED OUTSIDE THE BUILDING ON THE SITE UNLESS IT IS SUPPORTED OFF THE GROUND AND COMPLETELY PROTECTED WITH WEATHERPROOF COVERS.
- THE DRAWINGS, SCHEDULES AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AS THE BASIS FOR DIMENSIONAL DESIGN. IF THE CONTRACTOR PURCHASES EQUIPMENT FROM A SPECIFIED ACCEPTABLE MANUFACTURER, BUT NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED, PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH SUITABLE ACCESS AROUND EQUIPMENT FOR OPERATION AND MAINTENANCE OF THE EQUIPMENT. WHEN EQUIPMENT SUBMITTED FOR REVIEW DOES NOT MEET THE PHYSICAL SIZE OR ARRANGEMENT OF THAT SCHEDULED AND SPECIFIED, CONTRACTOR SHALL PAY FOR ALL ALTERATIONS REQUIRED TO ACCOMMODATE SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR WILL ALSO PAY ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, OWNER, ARCHITECT OR ENGINEER TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT TO FIT IN THE SPACE AND FUNCTION AS INTENDED.
- CONTRACTOR AND/OR MANUFACTURER SHALL VERIFY THAT THE CHARACTERISTICS OF THE EQUIPMENT SUBMITTED FOR REVIEW MEETS THE CAPACITY AND DUTY SPECIFIED. WHEN EQUIPMENT SUBMITTED FOR REVIEW REQUIRES MODIFICATIONS TO THE WORK OF OTHER CONTRACTORS, SUBMITTING CONTRACTOR SHALL PAY FOR ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, OWNER, ARCHITECT OR ENGINEER TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT FUNCTION SAFELY AND PROPERLY.
- CONTRACTOR SHALL FIELD VERIFY THE SIZE OF EXISTING OPENINGS, WINDOWS, DOORS, CORRIDORS, ROOMS, ETC. FOR ACCESS OF THE NEW EQUIPMENT INTO OR REMOVAL OF EXISTING EQUIPMENT FROM THE BUILDING. IF OPENINGS ARE TOO SMALL FOR ACCESS THEN CONTRACTOR SHALL, AT THEIR OWN EXPENSE, PROVIDE NEW OR ENLARGED OPENINGS AND RESTORE SAME TO ORIGINAL SIZE AND CONDITION. CONTRACTOR MAY ELECT TO ORDER THE EQUIPMENT DISASSEMBLED AND/OR WITH SPLIT HOUSING FOR ENTRANCE INTO THE EXISTING SPACE OR BUILDING. CONTRACTOR SHALL REASSEMBLE EQUIPMENT AFTER IT IS IN THE SPACE AT THEIR OWN EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THEIR ASSOCIATED FEES.
- CONTRACTOR SHALL SUBMIT DIGITAL COPIES OF SHOP DRAWINGS OF ALL EQUIPMENT, DIFFUSERS, REGISTERS, LIGHTING FIXTURES, PANELBOARDS, ELECTRICAL DEVICES, AND PLUMBING FIXTURES TO ENGINEER FOR APPROVAL PRIOR TO ORDERING ANY ITEMS OR FABRICATING ANY DUCTWORK.
- CONTRACTOR SHALL PROVIDE OWNER TRAINING ON ALL EQUIPMENT AND BUILDING SYSTEMS PROVIDED/ALTERED BY THEIR WORK. TRAINING SHALL BE ACCOMPLISHED DURING TIME DEDICATED FOR THAT PURPOSE, NOT IN CONJUNCTION WITH SERVICE WORK.
- AT COMPLETION OF PROJECT, CONTRACTOR SHALL SUBMIT ONE PHYSICAL AND DIGITAL COPIES OF OPERATION AND MAINTENANCE MANUALS FOR ALL WORK PROVIDED BY THEM ON PROJECT. MANUALS SHALL BE CLEARLY ORGANIZED AND CONTAIN COPIES OF APPROVED EQUIPMENT, SHOP DRAWINGS, EQUIPMENT PARTS LISTS, SERVICE CONTACTS, CONTRACTOR AND MANUFACTURER WARRANTIES, AND "AS BUILT" FLOOR PLANS.
- CONTRACTOR SHALL PROVIDE WARRANTY FOR ALL MATERIAL AND GUARANTEE ALL WORKMANSHIP PROVIDED BY THEM FOR 1 (ONE) YEAR FROM SUBSTANTIAL COMPLETION OF WORK INVOLVED.
- CONTRACTOR SHALL MAINTAIN A CURRENT CITY OF WOODSTOCK LICENSE THROUGHOUT ALL PHASES OF CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL INSPECTIONS WITH THE CITY OFFICIALS.



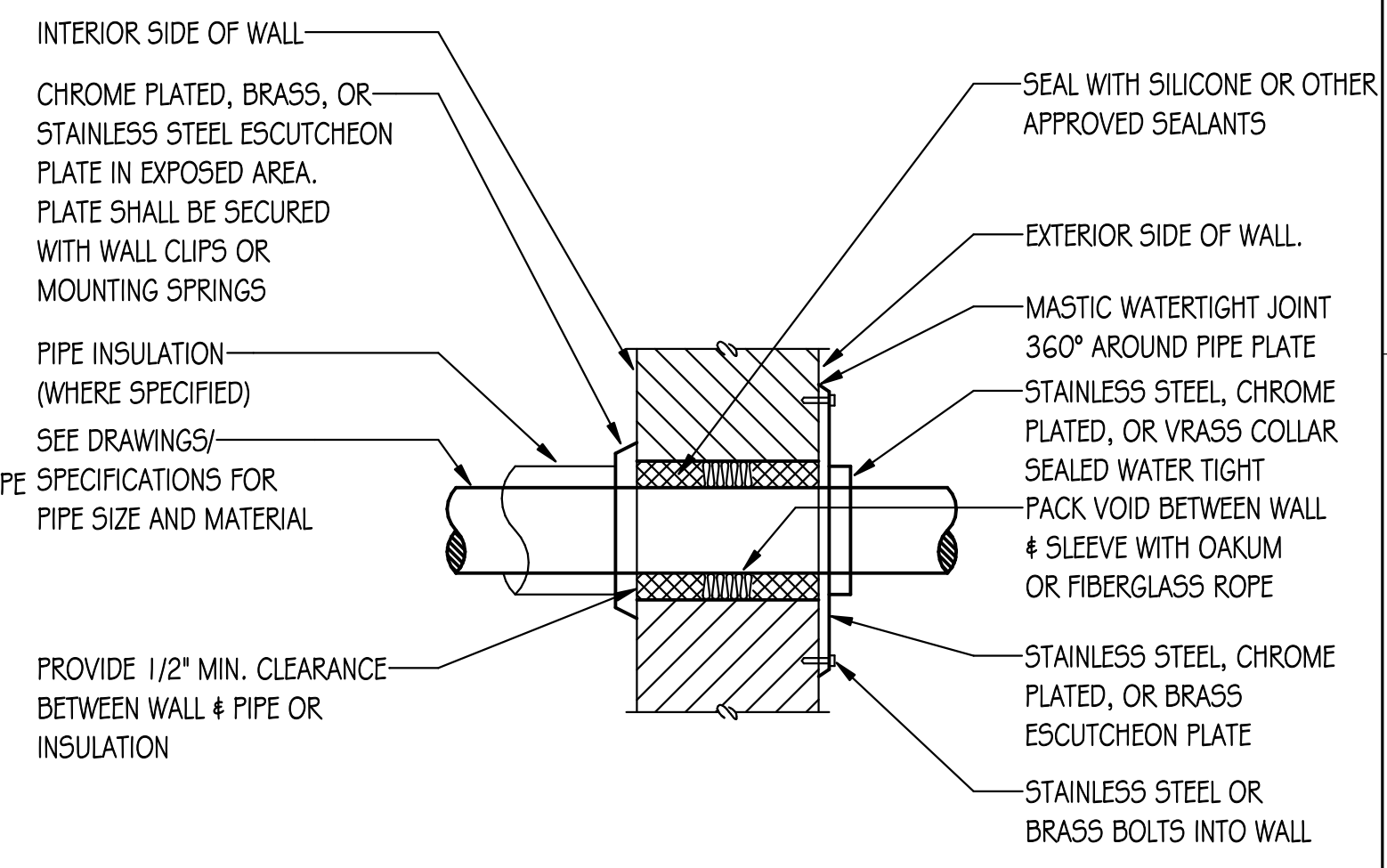
**PIPING OR CONDUIT ROOF CURB DETAIL**  
NO SCALE



**PIPE PENETRATION OF INTERIOR WALL DETAIL**  
NO SCALE



- NOTES:
- I.D. OF WALL OPENING TO BE A MIN. OF 1/2" LARGER THAN O.D. OF PIPE OR INSULATION PASSING THROUGH WALL.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THEIR WALL OPENINGS WITH OTHER TRADES AND/OR CONTRACTORS.
  - PIPE PENETRATIONS OF SMOKE OR FIRE WALLS SHALL BE IN COMPLIANCE WITH NFPA-90A.



- NOTES:
- CONTRACTOR SHALL ISOLATE ALL PIPES WHICH VIBRATE FROM CONSTRUCTION IN ORDER TO AVOID TRANSMISSION TO STRUCTURE.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THEIR WALL OPENINGS WITH OTHER TRADES AND/OR CONTRACTORS.

**PIPE PENETRATION OF EXTERIOR WALL ABOVE GRADE**  
NO SCALE



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
1216 TOWER ROAD  
SCHAUMBURG, IL 60173  
P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
1391 CORPORATE DRIVE, SUITE  
203 MCHENRY, IL 60050  
P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE**  
**UNIVERSITY CENTER AT MCC**

222 E CHURCH ST  
WOODSTOCK, ILLINOIS 60098  
DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**MECHANICAL/  
ELECTRICAL NOTES  
AND DETAILS**

SHEET NUMBER:

**ME1.00**



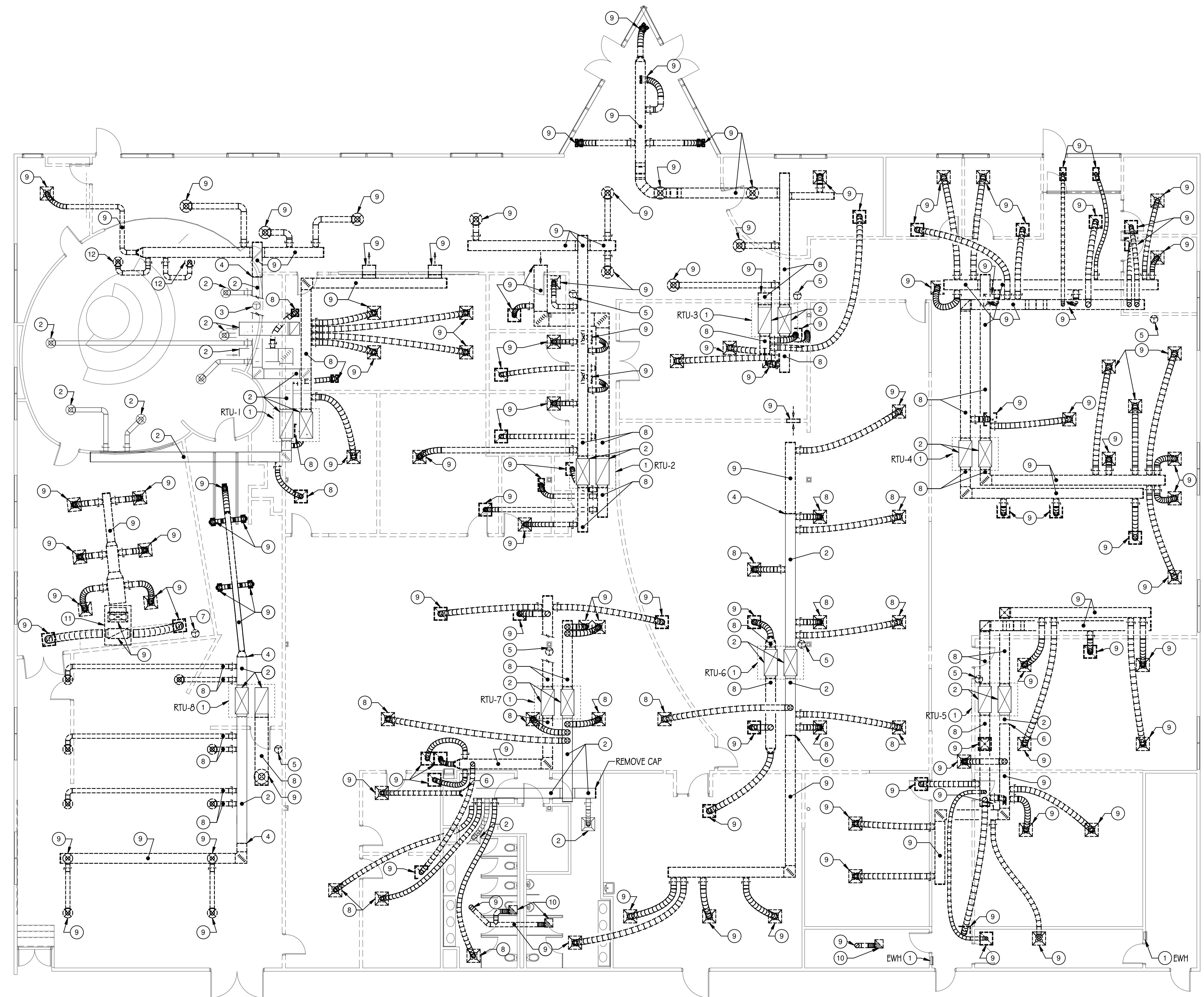
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MEP-FP-T-ENGINEERS  
 2010 ENGINEERING GROUP, LLC  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
 HRG GREEN  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE  
 UNIVERSITY CENTER AT MCC**

222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050



**1 HVAC FIRST FLOOR DEMOLITION PLAN**  
 1/8" = 1'-0"

**DRAWING NOTES**

- 1 EXISTING HVAC EQUIPMENT TO REMAIN.
- 2 EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO REMAIN.
- 3 EXISTING THERMOSTAT TO REMAIN.
- 4 CAP EXISTING DUCT AT LOCATION SHOWN AND REMOVE ALL DUCTWORK, REGISTERS, DIFFUSERS, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
- 5 CAREFULLY REMOVE EXISTING TEMPERATURE SENSOR TO LOCATION INDICATED ON NEW WORK PLAN. EXTEND TRIM/EXISTING WIRING AS REQUIRED.
- 6 NEW CONNECTION TO BE MADE AT THIS LOCATION. REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
- 7 REMOVE EXISTING THERMOSTAT INCLUDING ALL ASSOCIATED CONDUIT, WIRING, ETC. LOCATED ABOVE ANY ACCESSIBLE CEILING BETWEEN THERMOSTAT AND THE UNIT IT CONTROLS. PROVIDE BLANK COVER PLATE OVER ALL ABANDONED JUNCTION BOXES IN WALLS THAT ARE TO REMAIN.
- 8 REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED AND CAP AT MAIN.
- 9 REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED.
- 10 REMOVE EXISTING EXHAUST FAN AND ALL ASSOCIATED DUCTWORK, GRILLES, REGISTERS, DAMPERS, INSULATION, CONTROLS, ETC.
- 11 REMOVE EXISTING ROOFTOP UNIT AND ALL ASSOCIATED DUCTWORK, DAMPERS, PIPING, VALVING, CONTROLS, HANGERS, SUPPORTS, INSULATION, ETC. PROVIDE INSULATED SHEET METAL CAP AND SEAL WEATHER TIGHT.
- 12 CAREFULLY REMOVE EXISTING ROUND DIFFUSER TO LOCATION INDICATED ON NEW WORK PLAN. MODIFY DUCTWORK AS REQUIRED.

KEY PLAN:

SHEET STATUS: 9.19.23

**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**HVAC FIRST FLOOR  
 DEMOLITION PLAN**

SHEET NUMBER:

**DHV1.00**



ARCHITECT OF RECORD  
 DEMONICA KEMPER ARCHITECTS  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
 2010 ENGINEERING GROUP, LLC  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60193  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
 HRG GREEN  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE  
 UNIVERSITY CENTER AT MCC**

222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

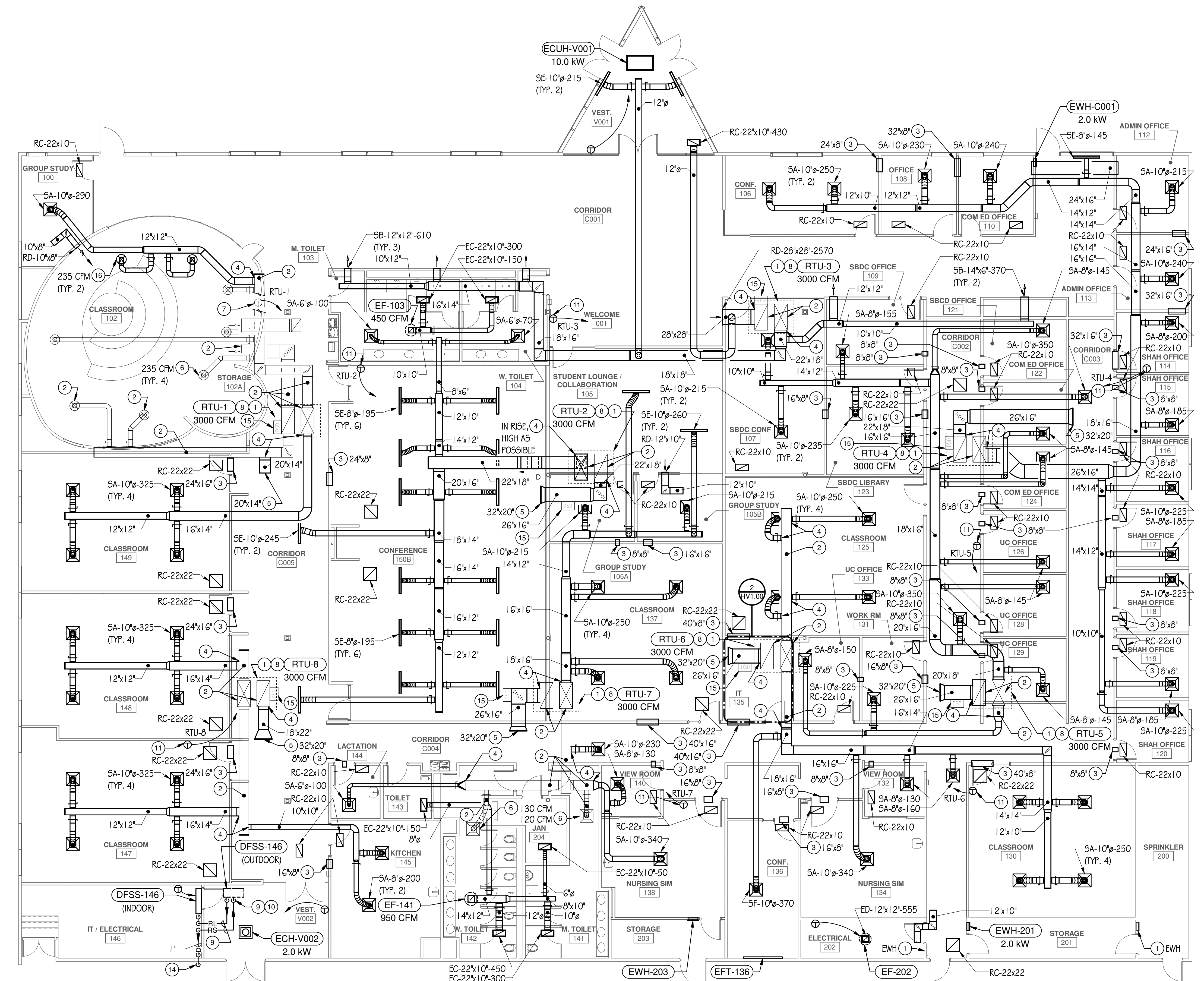
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**HVAC PLANS**

SHEET NUMBER:  
**HV1.00**

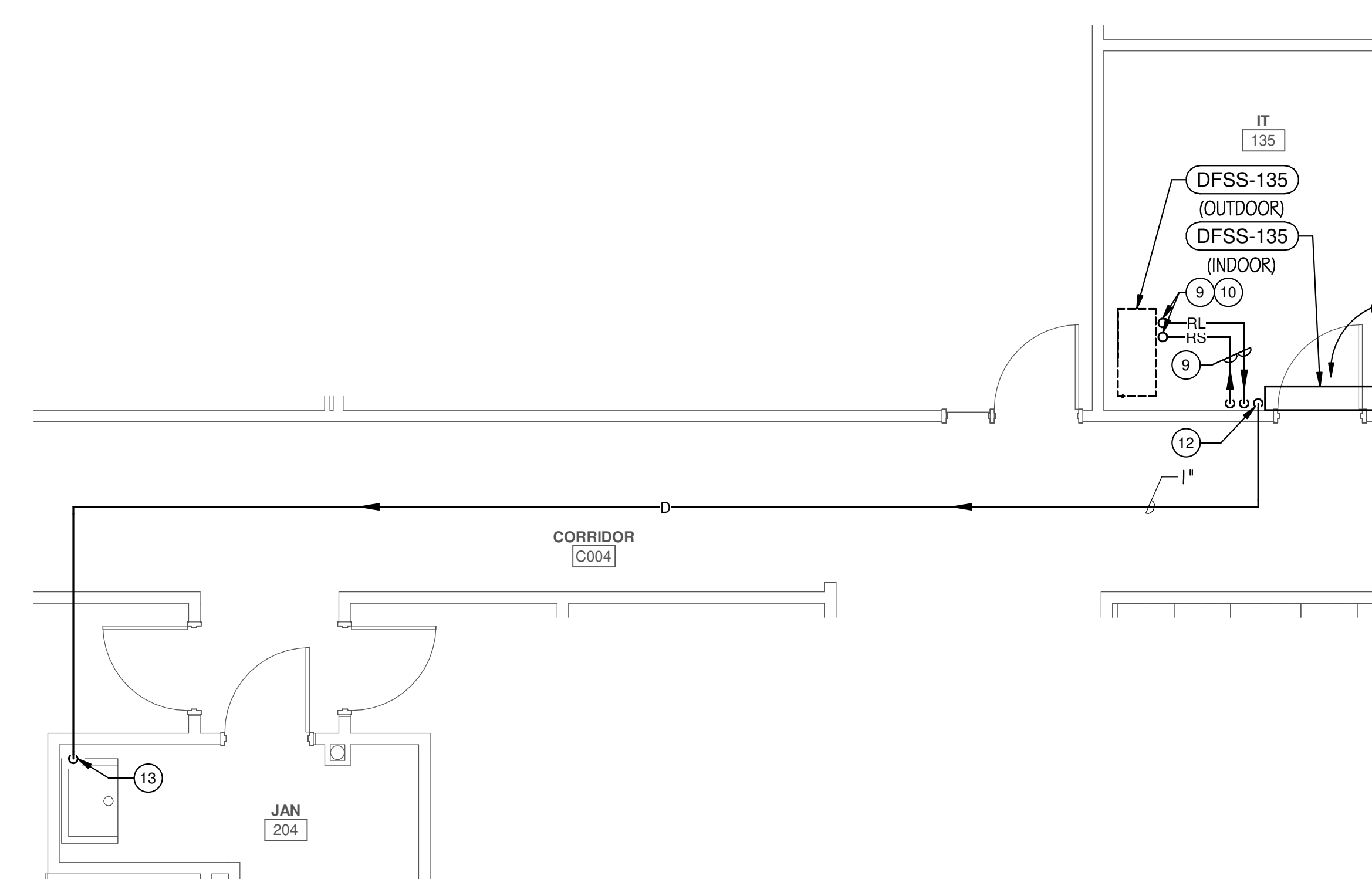
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**DRAWING NOTES**

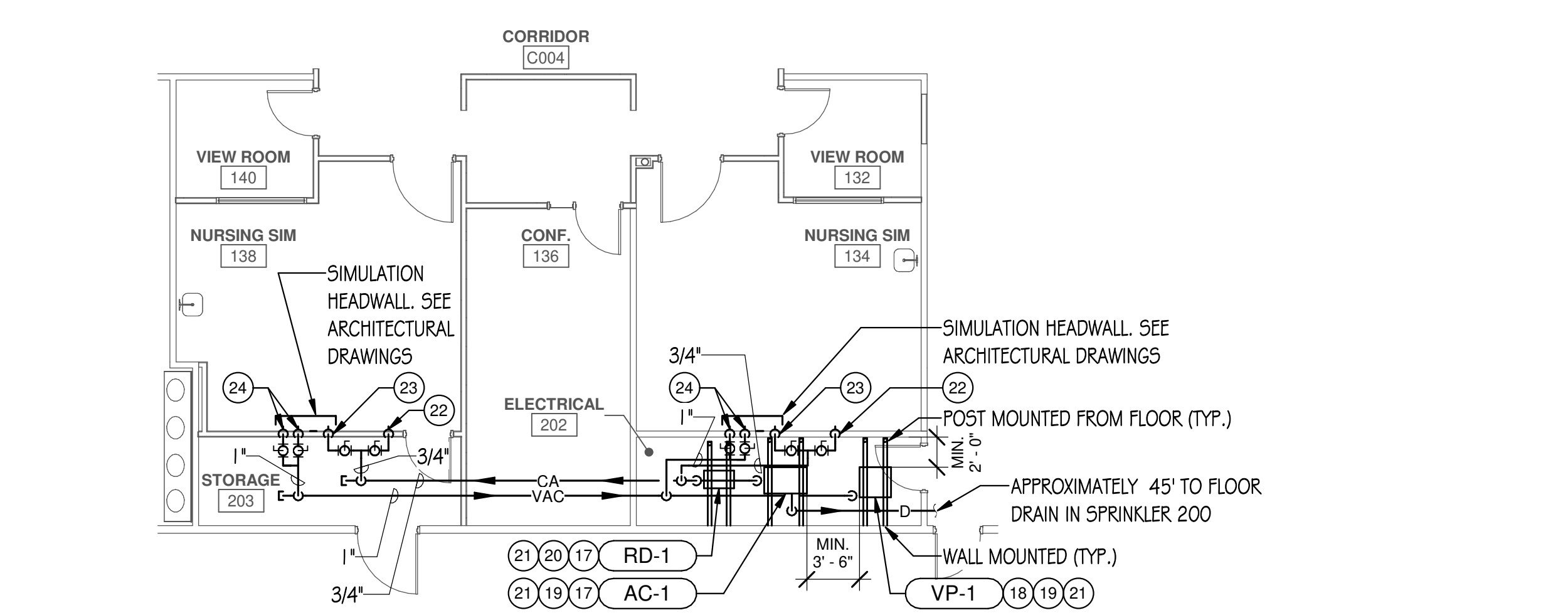
- EXISTING HVAC EQUIPMENT TO REMAIN.
- EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO REMAIN.
- TRANSFER OPENING OF SIZE INDICATED IN WALL ABOVE CEILING.
- MAKE NEW CONNECTION TO EXISTING DUCTWORK AT THIS LOCATION.
- PROVIDE BIRDSCREEN AT OPENING OF SIZE INDICATED.
- BALANCE EXISTING DIFFUSER TO AIRFLOW RATE INDICATED.
- EXISTING THERMOSTAT TO REMAIN.
- PROVIDE NEW FILTERS AND BALANCE EXISTING RTU TO AIR FLOW RATES INDICATED.
- REFRIGERANT PIPING SIZED, INSULATED, SUPPORTED, AND INSTALLED IN STRICT ACCORDANCE WITH EQUIPMENT MANUFACTURERS INSTRUCTION.
- PIPE OF SIZE INDICATED UP THRU ROOF.
- NEW LOCATION OF EXISTING SENSORS.
- PROVIDE LITTLE GIANT MODEL VCMA-15 CONDENSATE PUMP WITH 1/20/1PH ELECTRICAL CHARACTERISTICS. WIRE OVERFLOW SWITCH TO DISABLE UNIT COOLING.
- ROUTE 1" CONDENSATE DRAIN TO TERMINATE OVER MOP SINK IN JANITOR CLOSET WITH DOWN TURNED ELBOW.
- TERMINATE 1" CONDENSATE DRAIN LOW IN ROOM THRU WALL MIN. 6" ABOVE GRADE WITH DOWN TURNED ELBOW.
- COORDINATE EXACT LOCATION OF DUCT SMOKE DETECTOR WITH ELECTRICAL CONTRACTOR PRIOR TO FABRICATING ANY DUCTWORK.
- NEW LOCATION OF EXISTING DIFFUSER. BALANCE EXISTING DIFFUSER TO AIRFLOW RATE INDICATED. PAINT DUCTWORK TO MATCH EXISTING.
- REFER TO HV4.00 FOR AIR COMPRESSOR PIPING DETAIL.
- REFER TO HV4.00 FOR VACUUM PIPING DETAIL.
- AIR COMPRESSOR AND VACUUM PUMP REQUIRE 2'-0" OF CLEARANCE ON EACH SIDE FOR EASE OF MAINTENANCE AND 3'-6" FOR ELECTRICAL PANEL OPENING.
- MAINTAIN ALL MANUFACTURERS SERVICE CLEARANCES.
- RACK ON WALL WITH ANGLE IRON OR UNISTRUT BRACKETS 8'-0" A.F.F. AND INSTALL SPRING VIBRATION ISOLATORS. THE WALL SHELVES ARE TO BE SUPPORTED FROM THE WALL ON ONE SIDE AND POST MOUNTED FROM THE FLOOR ON THE OTHER SIDE. REFER TO HV4.00 FOR ADDITIONAL DETAILS.
- 1/2" CA DOWN IN WALL. CONTRACTOR TO PROVIDE 1/2" QUICK CONNECT COMPRESSED AIR OUTLET FOR USE BY SIM LAB MANNEQUIN AT A LOWER ELEVATION AND NOT WITHIN HEADWALL ASSEMBLY. COORDINATE WITH ARCHITECTURAL ELEVATIONS.
- 1/2" CA DOWN IN WALL. MAKE FULL SIZE CONNECTION TO HEADWALL OXYGEN OUTLET.
- 1/2" VAC DOWN IN WALL TO VACUUM OUTLETS.



**1 HVAC PLAN**  
 1/8" = 1'-0"



**2 ENLARGED HVAC PIPING PLAN - IT 135**  
 1/4" = 1'-0"



**3 HVAC PIPING PLAN - NURSING SIMS**  
 1/8" = 1'-0"

**BIDDING NOTE:**  
 SEE DRAWING ME1.00 FOR GENERAL NOTES AND ADDITIONAL DETAILS APPLICABLE TO THIS TRADES WORK.



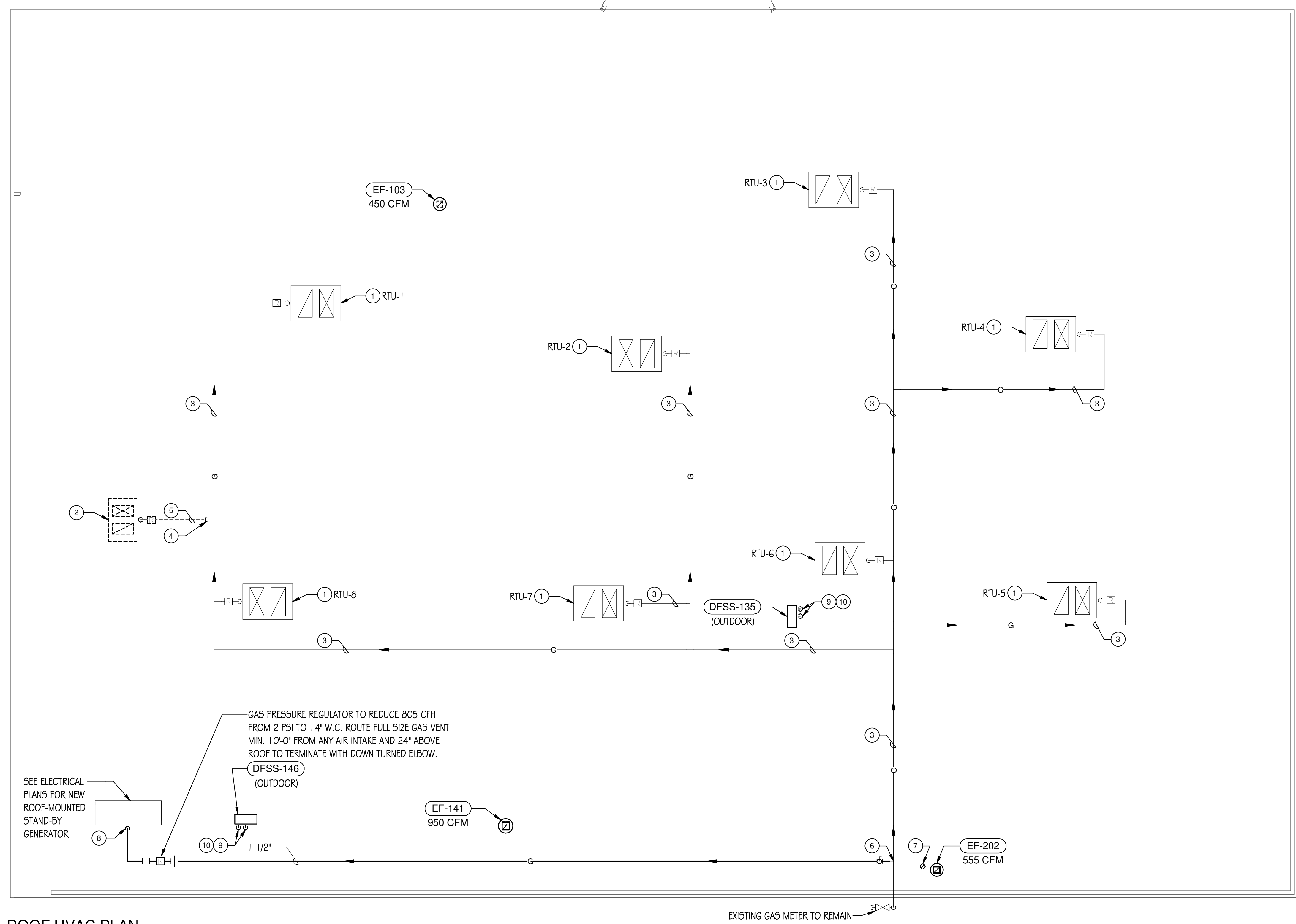
ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

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 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050



**1 ROOF HVAC PLAN**  
 1/8" = 1'-0"

**DRAWING NOTES**

- 1 EXISTING HVAC EQUIPMENT TO REMAIN.
- 2 REMOVE EXISTING ROOFTOP UNIT AND ALL ASSOCIATED DUCTWORK, DAMPERS, PIPING, VALVING, CONTROLS, HANGERS, SUPPORTS, INSULATION, ETC. PROVIDE INSULATED SHEET METAL CAP AND SEAL WEATHER TIGHT.
- 3 EXISTING PIPING AND VALVING TO REMAIN.
- 4 CAP EXISTING PIPE AT LOCATION SHOWN AND REMOVE ALL PIPING, VALVING, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
- 5 REMOVE ALL PIPING, VALVING, HANGERS, INSULATION, ETC. SHOWN DASHED.
- 6 MAKE NEW CONNECTION TO EXISTING PIPING AT THIS LOCATION.
- 7 REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED.
- 8 MAKE FINAL FULL SIZE CONNECTION TO UNIT WITH MIN. 6" DIRT LEG.
- 9 PIPE OF SIZE INDICATED DOWN THRU ROOF.
- 10 REFRIGERANT PIPING SIZED, INSULATED, SUPPORTED, AND INSTALLED IN STRICT ACCORDANCE WITH EQUIPMENT MANUFACTURER'S INSTRUCTION.

KEY PLAN:

SHEET STATUS: 9.19.23

**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:

**HVAC ROOF PLAN**

SHEET NUMBER:

**HV2.00**



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE**  
**UNIVERSITY CENTER AT MCC**  
 222 E CHURCH ST  
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 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

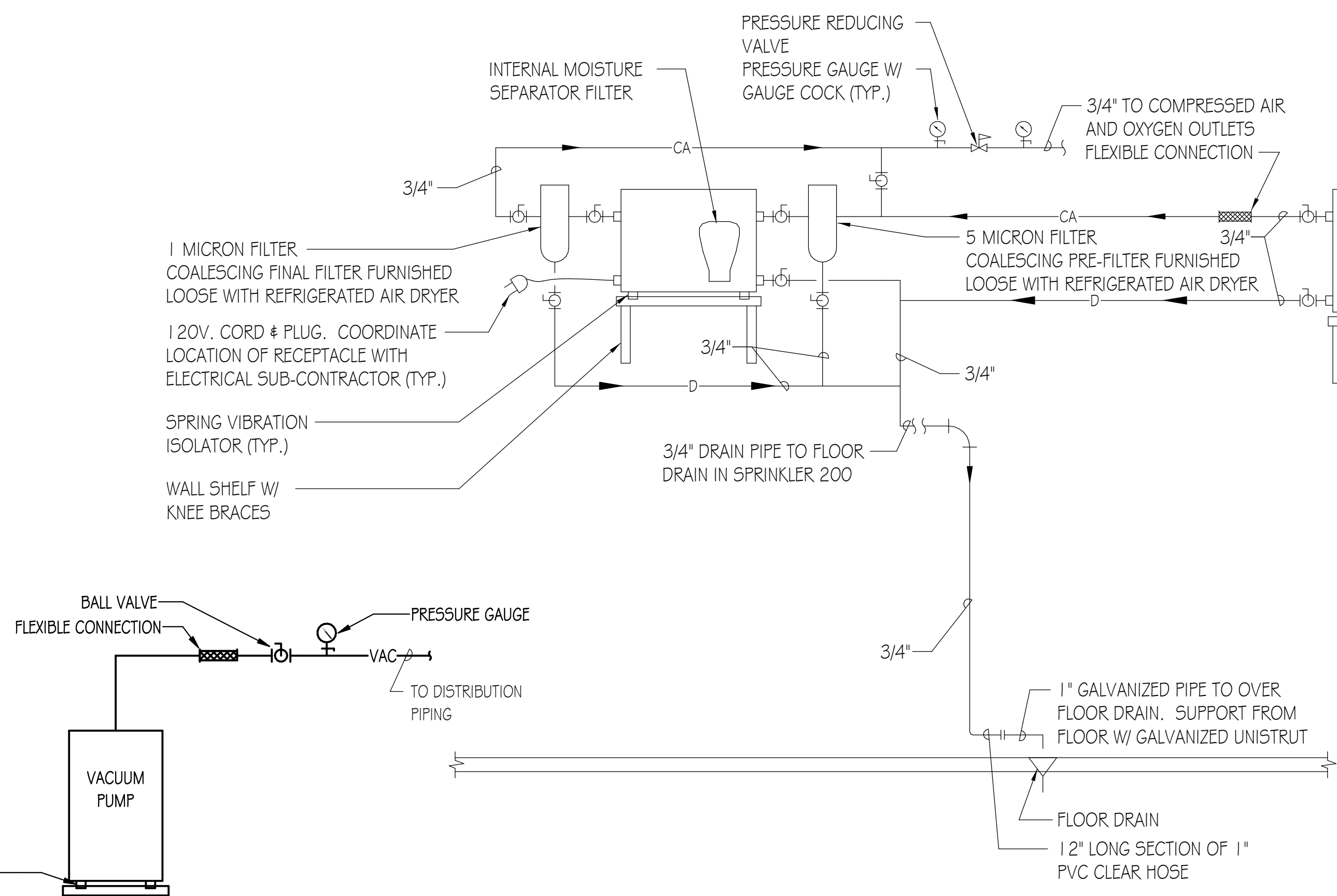
NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**HVAC LEGEND,  
 NOTES, AND DETAILS**

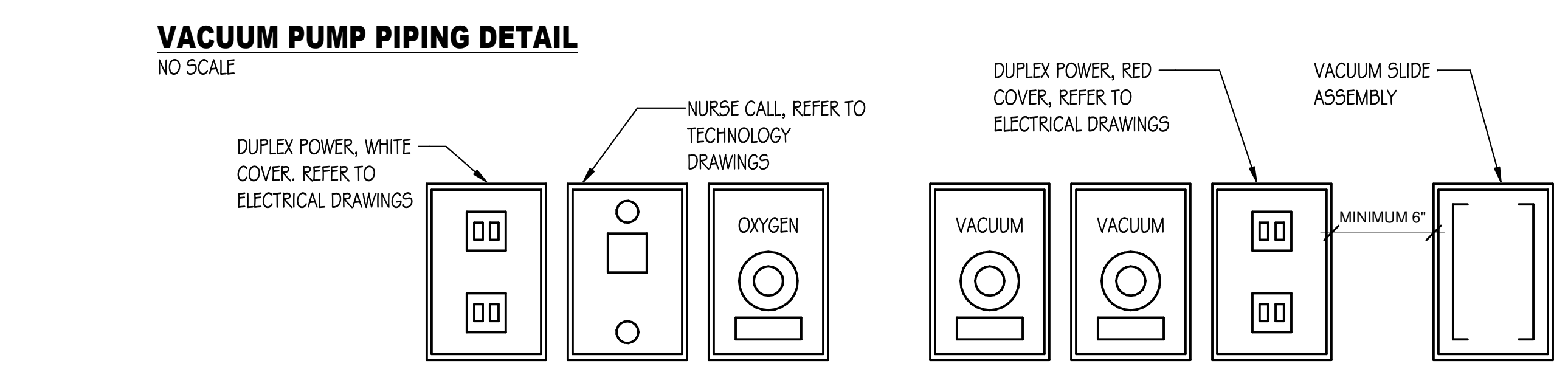
SHEET NUMBER:  
**HV4.00**

**HVAC SYMBOLS AND ABBREVIATIONS**

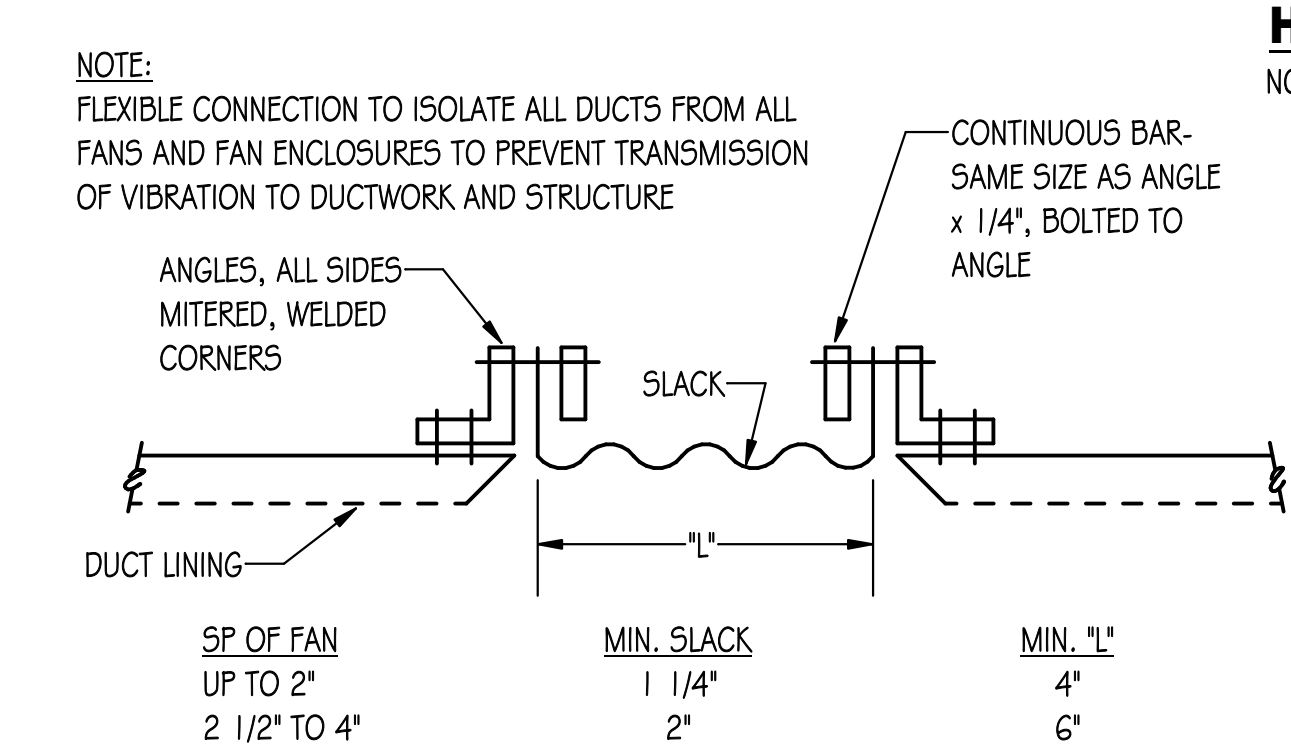
AC	AIR COMPRESSOR	G	NATURAL GAS
BAS	BUILDING AUTOMATION SYSTEM	CA	COMPRESSED AIR
BHP	BRAKE HORSEPOWER	VAC	VACUUM
BTUH	BRITISH THERMAL UNIT PER HOUR	RS	REFRIGERANT SUCTION
CA	COMPRESSED AIR	RL	REFRIGERANT LIQUID
CFM	CUBIC FEET PER MINUTE	D	DRAIN LINE
D	DRAIN LINE	GV	GATE VALVE
DB	DRY BULB	BV	BALL VALVE (2" & SMALLER)
DSD	DUCT SMOKE DETECTOR	BFV	BUTTERFLY VALVE (2 1/2" & LARGER)
EAT	ENTERING AIR TEMPERATURE	PF	PIPE FLEXIBLE CONNECTION
ECH	ELECTRIC CEILING HEATER	PU	PIPE UNION (OR FLANGES IF 2 1/2" OR LARGER PIPE)
EF	EXHAUST FAN	PGNV	PRESSURE GAUGE AND NEEDLE VALVE
EMH	ELECTRIC WALL HEATER	DF	DIRECTION OF FLOW
F	FAHRENHEIT	PEU	PIPE ELBOW (TURNED UP)
G	GAS PIPING	PED	PIPE ELBOW (TURNED DOWN)
HP	HORSEPOWER	PTD	PIPE TEE DOWN (DROP)
MCA	MINIMUM CIRCUIT AMPS	PTU	PIPE TEE UP OR ANGLE
MOC	MAXIMUM OVERCURRENT PROTECTION	PTD/A	PIPE TEE DOWN OR ANGLE
NC	NEW CONNECTION	N	NEW CONNECTION
N.O.	NORMALLY OPEN	GR	GAS PRESSURE REGULATOR
PH	PHASE	FD	FLEXIBLE DUCT CONNECTION
PRV	PRESSURE REDUCING VALVE	MSB	MANUAL SINGLE BLADE OR OPPOSED BLADE DAMPER
PSI	POUNDS PER SQUARE INCH	MOD	MOTOR OPERATED DAMPER
RD	REFRIGERATED COMPRESSED AIR DRYER	AF	AIR FLOW
RPM	REVOLUTIONS PER MINUTE	DA	DUCT SIZE FREE AREA (1ST FIGURE, SIDE OF DUCT SHOWN)
RTU	ROOFTOP UNIT	CS	CROSS-SECTION OF SUPPLY OR OUTSIDE AIR INTAKE DUCT
SP	STATIC PRESSURE	CR	CROSS-SECTION OF RETURN OR EXHAUST DUCT
TC	TEMPERATURE CONTROL	TYP	TYPICAL
VP	VACUUM PUMP	IR	INCLINED RISE (R) OR DROP (D)
WB	WET BULB	V	VACUUM
		VE	90° ELBOW WITH TURNING VANES
		VB	90° BRANCH TAKE-OFF W/45 DEGREE ENTRY
		RF	ROUND FLEXIBLE DUCT
		SR	SQUARE OR RECTANGLE DUCT TRANSITION
		SR2R	SQUARE OR RECTANGLE TO ROUND DUCT TRANSITION
		UR	DUCT UP TO ROOF MOUNTED EXHAUST FAN OR VENTILATOR
		ET	EQUIPMENT TAG
		WT	WALL THERMOSTAT OR TEMPERATURE SENSOR
		WTG	WALL THERMOSTAT OR TEMPERATURE SENSOR WITH GUARD
		R	ROUND
		P	PIPING, DUCTWORK, OR EQUIPMENT TO BE REMOVED
		DSD	DUCT SMOKE DETECTOR



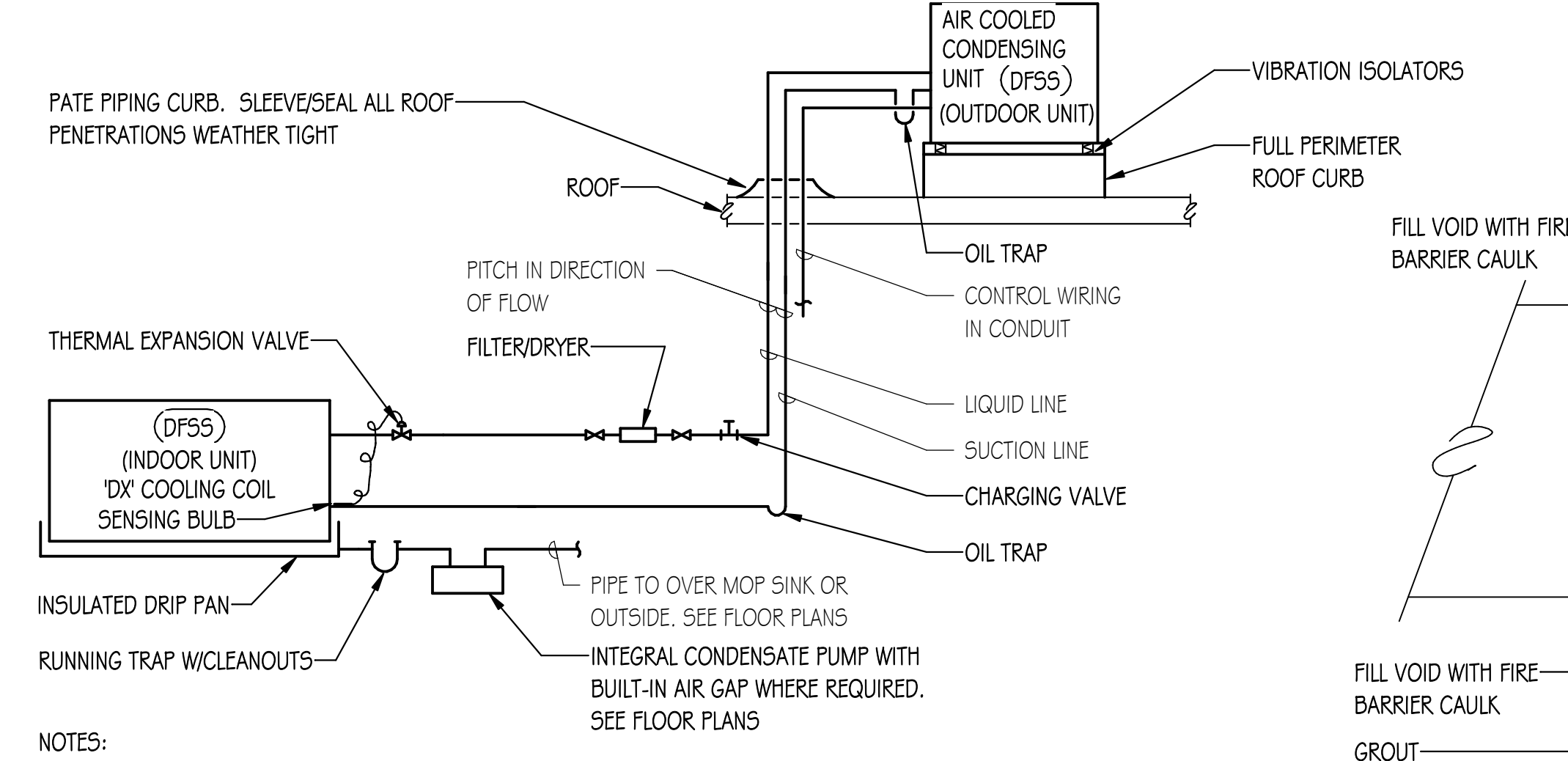
**SCHEMATIC DIAGRAM OF CONNECTION TO AIR COMPRESSOR**  
 NO SCALE



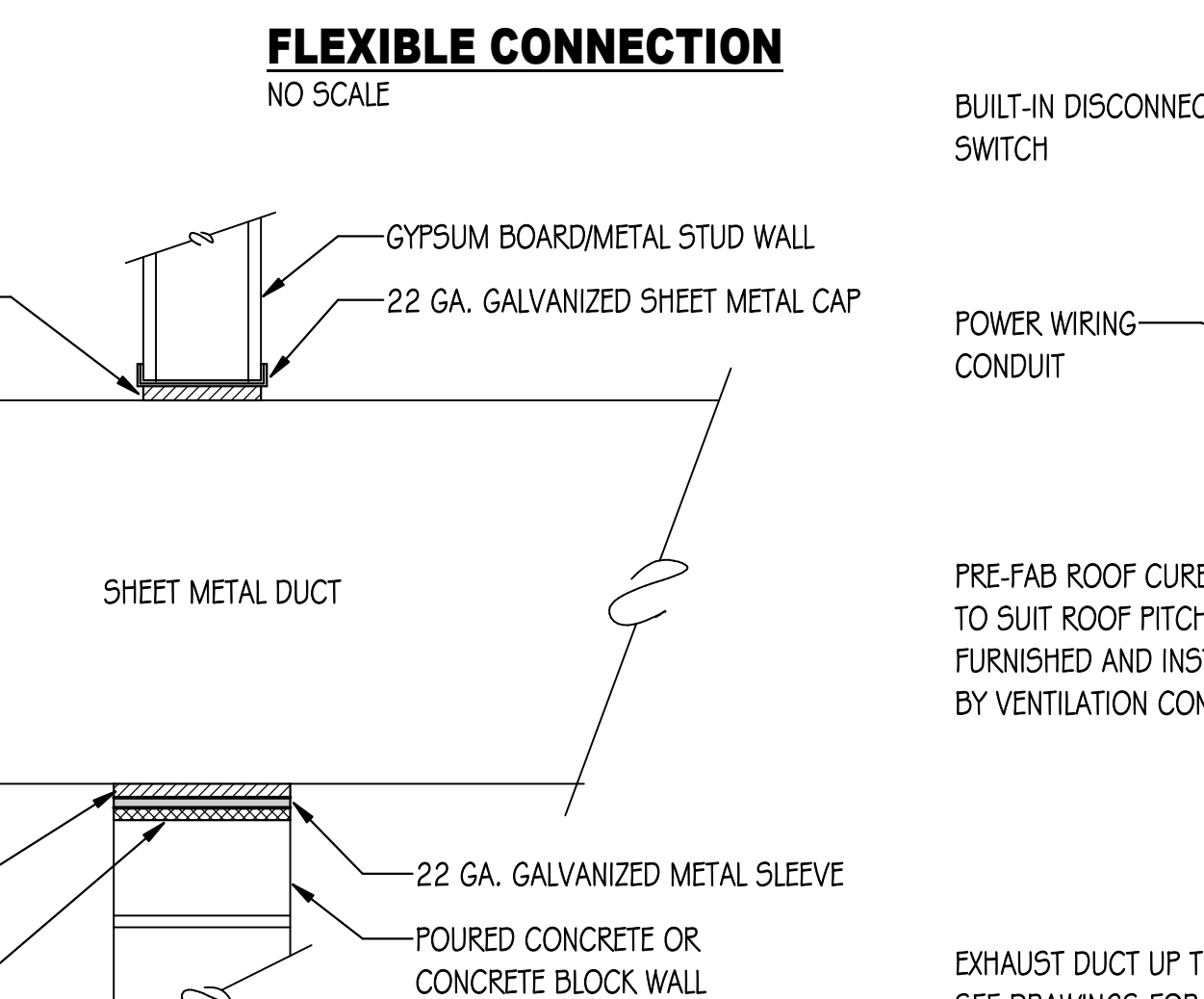
- NOTES:**
- REFER TO PIPING PLANS AND REFERENCED PLANS ABOVE. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL.
  - REFER TO MECHANICAL MATERIAL LIST FOR FURTHER INFORMATION.
  - MECHANICAL CONTRACTOR SHALL PROVIDE ALL HEADWALL EQUIPMENT, INCLUDES FACEPLATES FOR ELECTRICAL AND TECHNOLOGY WORKS. REFER TO ELECTRICAL AND TECHNOLOGY DRAWINGS FOR DETAILS.
  - EXACT SLIDE LOCATION TO BE DETERMINED BY OWNER.
  - CONTRACTOR TO PROVIDE MOCK-UP FOR VISUAL APPROVAL OF ENTIRE HEADWALL ASSEMBLY. ASSEMBLY SHALL NOT BE INSTALLED UNTIL IT HAS BEEN APPROVED BY OWNER AND ARCHITECT.
  - OUTLETS
    - DESCRIPTION: MEDICAL GAS SERVICE OUTLET- RECESSED QUICK CONNECT TYPE WALL OUTLET. ROUGHING IN ASSEMBLY AND FINISH ASSEMBLY, MOUNTING FLANGES, PLASTER STRIKE, SECONDARY CHECK, 3/8" O.D. TYPE K COPPER INLET TUBE, LABEL IDENTIFYING SPECIFIC GAS BY NAME AND COLOR, BRUSHED STAINLESS STEEL FINISHING PLATE. SYMBOLS FOR OUTLETS ARE AS FOLLOWS:  
 A COMPRESSED AIR  
 O OXYGEN  
 VAC VACUUM
    - PROVIDE ONE VACUUM SLIDE ASSEMBLY WITH EACH VACUUM SERVICE
    - ALL OUTLETS WITHIN HEAD WALL ASSEMBLY (OXYGEN AND VACUUM) SHALL BE OHMEDA STYLE.
    - THE COMPRESSED AIR CONNECTION DEDICATED TO THE MANNEQUIN SHOULD BE A DISS CONNECTION TYPE.
    - MANUFACTURER & CATALOG NO.: BEACONMEDA'S DIAMOND III, ALLIED HEALTHCARE/CHEMETRON, SQUIRE-COGSWELL/AEROS, AMICO



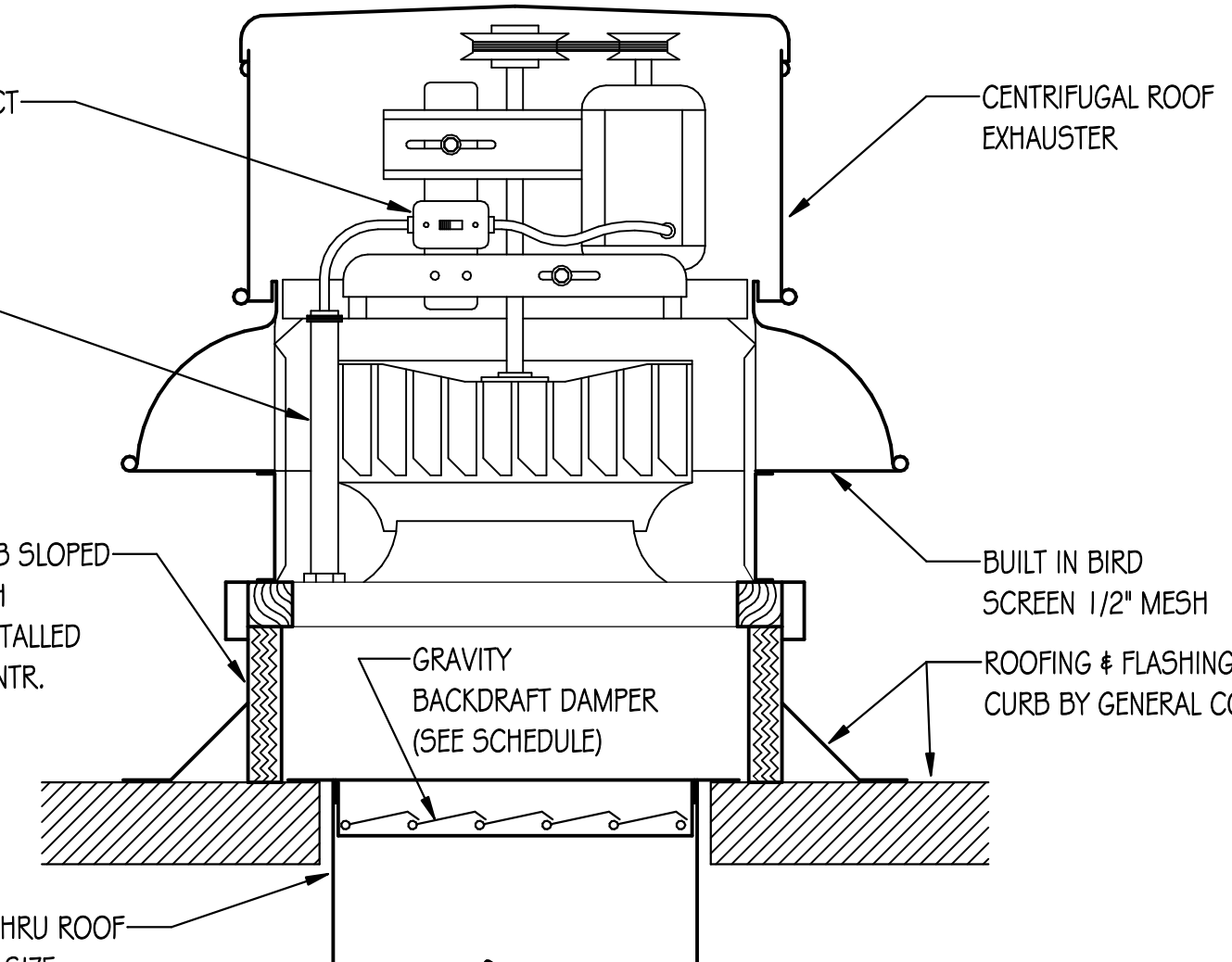
**HEADWALL ASSEMBLY DETAIL**  
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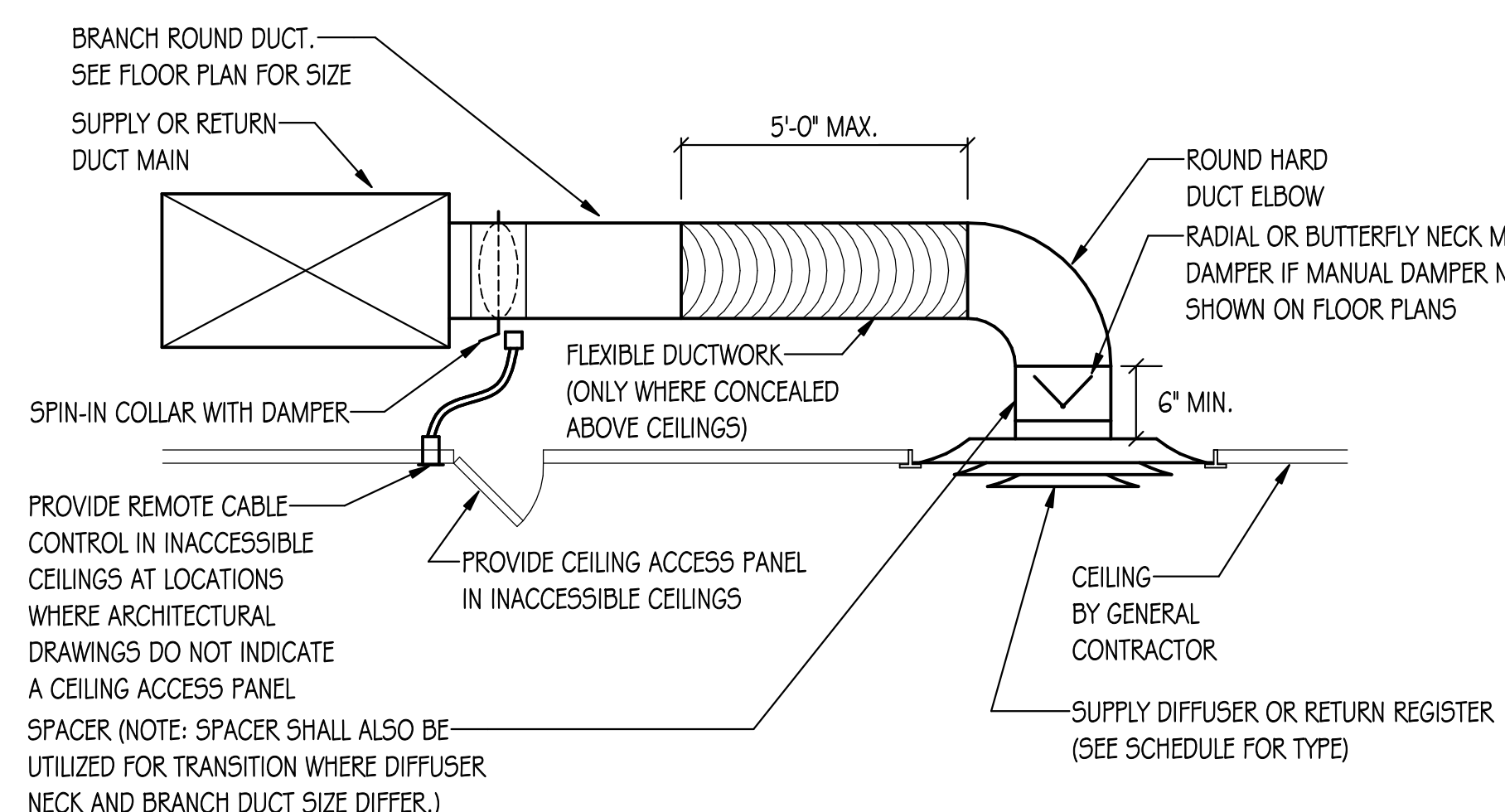
**DFSS REFRIGERANT PIPING DETAIL**  
 NO SCALE



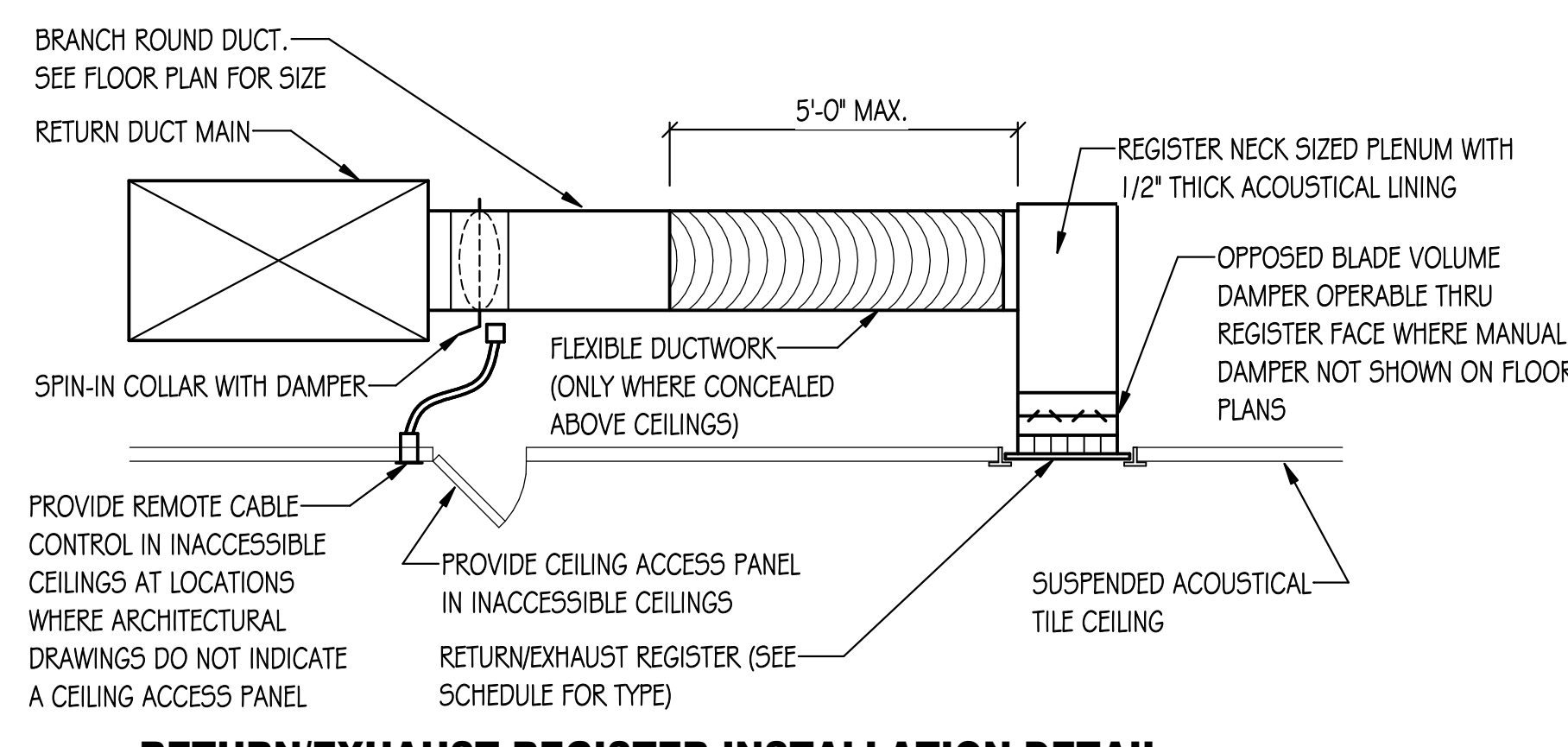
**DUCT SLEEVE THRU INTERIOR WALL DETAIL**  
 NO SCALE



**CENTRIFUGAL ROOF EXHAUSTER DETAIL**  
 NO SCALE



**DIFFUSER/REGISTER INSTALLATION DETAIL**  
 NO SCALE



**RETURN/EXHAUST REGISTER INSTALLATION DETAIL**  
 NO SCALE

**GENERAL NOTES - HVAC WORK:**

- ALL NEW WORK AND MATERIALS SHALL CONFORM TO CDB CODE AND MCHENRY COUNTY COLLEGE BUILDING STANDARDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AND PAYING THEIR ASSOCIATED FEES.
- NOISE AND VIBRATION WILL NOT BE TOLERATED. CONTRACTOR SHALL BID ON FURNISHING EVERY DETAIL TO ASSURE THIS END.
- PATCH AND REFINISH ALL DAMAGED INSULATED SURFACES OF ALL EXISTING DUCTWORK, PIPING AND ASSOCIATED FITTINGS TO MATCH EXISTING WHERE NEW CONNECTIONS ARE BEING MADE.
- THE LOCATIONS SHOWN FOR ALL DIFFUSERS, REGISTERS AND GRILLES, ETC. ARE DIAGRAMMATIC. EXACT LOCATION SHALL BE DETERMINED FROM THE REFLECTED CEILING PLANS AND/OR ON THE JOB SITE BY THE ARCHITECT/ENGINEER REPRESENTATIVES.
- EXCEPT AS NOTED OTHERWISE, ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE GALVANIZED SHEET METAL WITH SEALED JOINTS CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH CURRENT SMACNA MANUAL. SIZES SHOWN ARE INSIDE FACE TO INSIDE FACE.
- ROUND EXPOSED SUPPLY OR RETURN DUCTWORK SHALL BE SINGLE WALL SPIRAL GALVANIZED. WHERE EXPOSED DUCTWORK IS TO REMAIN UNPAINTED, ASSEMBLE WITHOUT SEALED JOINTS. CLEAN AND DEGREASE EXPOSED DUCT IN PREPARATION FOR CLEAR COAT FINISH.
- THE GAUGES OF IRON FOR DUCTS AND CASINGS AND SIZE OF STRUCTURAL REINFORCING ANGLES FOR DUCTS AND CASING SHALL BE SUCH AS TO PROVIDE ABSOLUTELY AIR TIGHT CONSTRUCTION FREE FROM PULSATION, DEFORMATION, OR VIBRATION AT NORMAL OPERATING PRESSURES.
- ALL NEW CONCEALED SUPPLY DUCTWORK OUTSIDE OF MECHANICAL OR BOILER ROOM SHALL BE EXTERNALLY INSULATED 1 1/2" THICK WITH FLEXIBLE FIBERGLASS INSULATION WITH VAPOR BARRIER JACKET.
- ALL ROUND CONCEALED FLEXIBLE DUCT SHALL BE WIREMOLD OR THERMOFLEX FACTORY INSULATED 1" THICK MAXIMUM OF 5'-0" LONG TO DIFFUSERS/REGISTERS. FLEXIBLE DUCT MAY BE UTILIZED ONLY WHERE CONCEALED ABOVE ACCESSIBLE CEILINGS.
- ALL NEW RECTANGULAR SUPPLY AND RETURN DUCTWORK SHALL BE INTERNALLY LINED 1" THICK WITH MATT FACED FIBERGLASS DUCT LINING.
- PROVIDE MANUAL VOLUME DAMPERS AT EACH BRANCH DUCT TAKEOFF IN SUPPLY DUCTWORK AND IN RETURN/EXHAUST DUCTWORK. PROVIDE TURNING VANES IN ALL SQUARE DUCT ELBOWS.
- PAINT ALL INTERIOR DUCTWORK VISIBLE THROUGH AIR INLETS OR OUTLETS FLAT BLACK.
- CONTRACTOR SHALL PROVIDE NEW FILTERS AND CLEAN CONDENSER COIL FOR EXISTING ROOFTOP UNITS.
- BALANCE DUCT SYSTEMS TO ACCOMPLISH AIR QUANTITIES SHOWN AT ALL INLETS/OUTLETS (NEW AND EXISTING) AS SHOWN ON DRAWING AND SUBMIT TEST REPORT FOR REVIEW BY OWNER AND ENGINEER.
- NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK AND CONFORM WITH ASTM STANDARDS WELDED FOR PIPE SIZES 2 1/2" AND OVER AND SCREWED FOR PIPE SIZES 2" AND UNDER. WIRE BRUSH CLEAN AND PAINT ALL PIPING AND FITTINGS WITH 2 COATS OF RUST RESISTANT PAINT.
- LOW VOLTAGE WIRING SHALL BE UL LISTED AND PLENUM RATED (LOW SMOKE PRODUCING). WIRING SHALL BE CONCEALED IN WALLS AND MAY BE INSTALLED WITHOUT CONDUIT ABOVE ACCESSIBLE LAY-IN CEILING SPACES ONLY.
- BASE BID:
  - PROVIDE 7 DAY/24 HOUR TIME CLOCK TO START/STOP EXHAUST FAN EF-1.03 AND EF-1.41.
  - RELOCATE EXISTING PROGRAMMABLE THERMOSTATS AS INDICATED ON DRAWINGS.
- ALTERNATE BID:
  - PROVIDE NEW TRANE BUILDING CONTROLLER COMPATIBLE WITH MAIN CAMPUS TRANE SYSTEM FOR INTEGRATION INTO CAMPUS WIDE BUILDING AUTOMATION SYSTEM.
  - PROVIDE NEW COMMUNICATING THERMOSTATS TO OPERATE SUPPLY FAN ON BUILDING SCHEDULE, HEATING/COOLING/ECONOMIZER ON SPACE TEMPERATURE DEMAND, NIGHT SETBACK, MORNING WARMUP/COOL DOWN, AND OUTDOOR AIR DAMPER TO MAINTAIN 1200 PPM INDOOR CO2 LEVELS (IF EXISTING ECONOMIZER HAS VENTILATION OVERRIDE FUNCTION).
  - BAS SYSTEM TO OPERATE EXHAUST FAN EF-1.03 AND EF-1.41 ON BUILDING OCCUPANCY SCHEDULE.



ARCHITECT OF RECORD  
**DEMIONA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUHURST, IL 60153  
 P: 847.882.2010 F: 847.882.2201

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 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

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 DKA PROJECT NO: 22-050

DUCT FREE SPLIT SYSTEM SCHEDULE																													
EQUIP TAG	AREA SERVED	MANUF.	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	MODEL	TYPE	INDOOR UNIT										OUTDOOR				ELECTRICAL DATA	NOTES							
							DIMENSIONS (IN.)			CFM	MIN. ODA	EAT (°F DB)	EAT (°F WB)	MOTOR			FILTER	MODEL	LOCATION	COMPRESSOR									
L	D	H	HP	MCA	PH	VOLT	SIZE	SST (°F)	REFRIG. TYPE					EAT (°F)	MCA	MOCP				PH	VOLT								
DF55-135	IT 135	CARRIER	24,000	24,000	DHMAHQ24	HIGHWALL	47	10	13	870	0	80.0	67.0	0.13	0.63	1	208	CLEANABLE	38MARBQ24	ON ROOF	2	45.0	R-410A	95.0	25.0	35	1	208	1,2,3,4
DF55-146	IT/ELECTRICAL 146	CARRIER	36,000	36,000	DHMAHQ36	HIGHWALL	47	10	13	870	0	80.0	67.0	0.13	0.63	1	208	CLEANABLE	38MARBQ36	ON ROOF	3	45.0	R-410A	95.0	28.0	35	1	208	1,2,3,4

NOTES:  
 1. OTHER ACCEPTABLE MANUFACTURERS: APPROVED EQUAL.  
 2. INDOOR UNIT POWERED FROM OUTDOOR UNIT.  
 3. PERMANENTLY MOUNTED WALL THERMOSTAT, WIRED.  
 4. LOW AMBIENT CONTROL, WIND BAFFLE, AND CRANKCASE HEATER FOR OPERATION TO -20 DEG. F.

2021 INTERNATIONAL MECHANICAL CODE VENTILATION SCHEDULE																							
ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	ROOM DATA		NATURAL VENTILATION (SECTION 402)		MECHANICAL VENTILATION (SECTION 403)								NOTES								
			AREA (FT <sup>2</sup> )	VOLUME (FT <sup>3</sup> )	MINIMUM OPERABLE AREA (FT <sup>2</sup> )	ACTUAL OPERABLE AREA (FT <sup>2</sup> )	ESTIMATED MAXIMUM OCCUPANT LOAD				REQUIRED BREATHING ZONE OUTSIDE AIR (SEE NOTE 1)												
							DEFAULT OCCUPANCY	ZONE POPULATION (RP)	FIXTURE QUANTITY	CFM/PERSON (RP)	CFM/50 FT. (RA)	EXHAUST AIRFLOW RATE PER CFM SQ. FT.	EXHAUST AIRFLOW RATE PER FIXTURE	BREATHING ZONE OUTDOOR AIRFLOW RATE (V/BZ)		ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez)	REQD. TOTAL O.A. CFM	REQD. TOTAL E.A. CFM	TOTAL	% TOTAL O.A.	TOTAL O.A.	EXHAUST CFM	
100	GROUP STUDY	OFFICE SPACES	170	1530	6.8	--	1	4	--	5	0.06	--	--	30.2	1.0	30.2	--	290	33%	95	0	1	
102	CLASSROOM	CLASSROOMS (AGS 9 PLUS)	889	8901	39.6	--	35	34	--	10	0.12	--	--	458.7	1.0	458.7	--	1410	33%	463	0	1	
103	M. TOILET	TOILET ROOMS - PUBLIC	245	2205	9.8	--	--	--	--	4	--	--	--	50	1.0	50	--	200	100	25%	25	300	1
104	W. TOILET	TOILET ROOMS - PUBLIC	170	1530	6.8	--	--	--	--	2	--	--	--	50	1.0	50	--	100	70	25%	18	150	1
105	STUDENT LOUNGE/COLLABORATION	OFFICE SPACES	511	4599	20.4	--	3	12	--	5	0.06	--	--	80.7	1.0	80.7	--	520	34%	177	0	1	
105A	GROUP STUDY	OFFICE SPACES	137	1233	5.5	--	1	6	--	5	0.06	--	--	38.2	1.0	38.2	--	215	34%	73	0	1	
105B	GROUP STUDY	OFFICE SPACES	137	1233	5.5	--	1	6	--	5	0.06	--	--	38.2	1.0	38.2	--	215	34%	73	0	1	
106	CONF.	CONFERENCE ROOMS	284	2556	11.4	--	14	10	--	5	0.06	--	--	67.0	1.0	67.0	--	300	25%	125	0	1	
107	SBOC CONF.	CONFERENCE ROOMS	406	3654	16.2	--	20	14	--	5	0.06	--	--	94.4	1.0	94.4	--	430	25%	108	0	1	
108	OFFICE	OFFICE SPACES	139	1251	5.6	--	1	3	--	5	0.06	--	--	23.3	1.0	23.3	--	230	25%	58	0	1	
109	SBOC OFFICE	OFFICE SPACES	148	1332	5.9	--	1	3	--	5	0.06	--	--	23.9	1.0	23.9	--	155	25%	39	0	1	
110	COM. ED OFFICE	OFFICE SPACES	137	1233	5.5	--	1	3	--	5	0.06	--	--	23.2	1.0	23.2	--	240	25%	60	0	1	
112	ADMIN OFFICE	OFFICE SPACES	130	1170	5.2	--	1	3	--	5	0.06	--	--	22.8	1.0	22.8	--	215	25%	54	0	1	
113	ADMIN OFFICE	OFFICE SPACES	128	1152	5.1	--	1	3	--	5	0.06	--	--	22.7	1.0	22.7	--	240	25%	60	0	1	
114	SHAH OFFICE	OFFICE SPACES	102	918	4.1	--	1	3	--	5	0.06	--	--	21.1	1.0	21.1	--	200	25%	50	0	1	
115	SHAH OFFICE	OFFICE SPACES	103	927	4.1	--	1	3	--	5	0.06	--	--	21.2	1.0	21.2	--	185	25%	46	0	1	
116	SHAH OFFICE	OFFICE SPACES	108	972	4.3	--	1	3	--	5	0.06	--	--	21.5	1.0	21.5	--	225	25%	56	0	1	
117	SHAH OFFICE	OFFICE SPACES	106	954	4.2	--	1	3	--	5	0.06	--	--	21.4	1.0	21.4	--	185	25%	46	0	1	
118	SHAH OFFICE	OFFICE SPACES	106	954	4.2	--	1	3	--	5	0.06	--	--	21.4	1.0	21.4	--	225	25%	56	0	1	
119	SHAH OFFICE	OFFICE SPACES	107	963	4.3	--	1	3	--	5	0.06	--	--	21.4	1.0	21.4	--	185	25%	46	0	1	
120	SHAH OFFICE	OFFICE SPACES	106	954	4.2	--	1	3	--	5	0.06	--	--	21.4	1.0	21.4	--	225	25%	56	0	1	
121	SBOC OFFICE	OFFICE SPACES	119	1083	4.7	--	1	3	--	5	0.06	--	--	21.1	1.0	21.1	--	185	25%	46	0	1	
121A	COM. ED OFFICE	OFFICE SPACES	120	1080	4.6	--	1	3	--	5	0.06	--	--	21.1	1.0	21.1	--	185	25%	46	0	1	
122	SBOC LIBRARY	LIBRARIES	245	2205	9.8	--	2	4	--	5	0.12	--	--	49.4	1.0	49.4	--	470	25%	115	0	1	
124	COM. ED OFFICE	OFFICE SPACES	120	1080	4.6	--	1	3	--	5	0.06	--	--	21.1	1.0	21.1	--	185	25%	46	0	1	
125	COM. ED OFFICE	OFFICE SPACES	124	1116	4.8	--	1	3	--	5	0.06	--	--	22.1	1.0	22.1	--	185	25%	46	0	1	
126	UC OFFICE	OFFICE SPACES	120	1080	4.6	--	26	25	--	5	0.06	--	--	22.2	1.0	22.2	--	145	25%	36	0	1	
127	UC OFFICE	OFFICE SPACES	120	1080	4.6	--	26	25	--	5	0.06	--	--	22.2	1.0	22.2	--	145	25%	36	0	1	
128	UC OFFICE	OFFICE SPACES	120	1080	4.6	--	26	25	--	5	0.06	--	--	22.2	1.0	22.2	--	145	25%	36	0	1	
129	UC OFFICE	OFFICE SPACES	120	1080	4.6	--	26	25	--	5	0.06	--	--	22.2	1.0	22.2	--	145	25%	36	0	1	
130	CLASSROOM	CLASSROOMS (AGS 9 PLUS)	585	5355	23.8	--	21	25	--	10	0.12	--	--	321.4	1.0	321.4	--	1000	34%	340	0	1	
131	WORK ROOM	COMP. PRINTING ROOMS	121	1089	4.8	--	0	0	--	5	0.06	0.5	--	17.3	1.0	17.3	60.5	225	25%	24	0	1	
132	WORK ROOM	OFFICE SPACES	121	1089	4.8	--	0	0	--	5	0.06	0.5	--	17.3	1.0	17.3	60.5	225	25%	24	0	1	
133	UC OFFICE	OFFICE SPACES	121	1143	5.1	--	0	0	--	5	0.06	0.5	--	17.3	1.0	17.3	60.5	225	25%	24	0	1	
134	NURSING SIM	CLASSROOMS (AGS 9 PLUS)	312	2808	12.5	--	11	5	--	10	0.12	--	--	87.4	1.0	87.4	--	340	24%	116	0	1	
135	CONF.	CONFERENCE ROOMS	148	1161	5.2	--	11	10	--	5	0.06	--	--	63.7	1.0	63.7	--	370	24%	126	0	1	
136	CLASSROOM	CLASSROOMS (AGS 9 PLUS)	721	6459	26.8	--	25	25	--	10	0.12	--	--	336.5	1.0	336.5	--	1000	34%	340	0	1	
137	CLASSROOM	CLASSROOMS (AGS 9 PLUS)	369	3321	12.1	--	11	9	--	10	0.12	--	--	36.4	1.0	36.4	--	300	24%	102	0	1	
138	VIEW ROOM	OFFICE SPACES	269	2421	9.6	--	0	2	--	5	0.06	--	--	14.3	1.0	14.3	--	120	24%	44	0	1	
139	VIEW ROOM	OFFICE SPACES	269	2421	9.6	--	0	2	--	5	0.06	--	--	14.3	1.0	14.3	--	120	24%	44	0	1	
140	VIEW ROOM	OFFICE SPACES	269	2421	9.6	--	0	2	--	5	0.06	--	--	14.3	1.0	14.3	--	120	24%	44	0	1	
141	W. TOILET	TOILET ROOMS - PUBLIC	258	2331	10.4	--	--	--	--	4	--	--	--	50	1.0	50	--	200	120	24%	41	300	1
142	W. TOILET	TOILET ROOMS - PUBLIC	258	2331	10.4	--	--	--	--	4	--	--	--	50	1.0	50	--	200	120	24%	41	300	1
143	TOILET	TOILET ROOMS - PUBLIC	258	2331	10.4	--	--	--	--	4	--	--	--	50	1.0	50	--	200	120	24%	41	300	1
144	TOILET	TOILET ROOMS - PUBLIC	258	2331	10.4	--	--	--	--	4	--	--	--	50	1.0	50	--	200	120	24%	41	300	1
145	LACTATION	OFFICE SPACES	69	621	2.5	--	0	2	--	5	0.06	--	--	13.7	1.0	13.7	--	100	24%	34	0	1	
146	LABORATORY	LABORATORIES	282	2538	13.7	--	0	8	--	5	0.06	--	--	60.6	1.0	60.6	--	400	24%	104	0	1	
147	CLASSROOM	CLASSROOMS (AGS 9 PLUS)	708	6387	26.1	--	25	25	--	10	0.12	--	--	334.4	1.0	334.4	--	1000	34%	338	0	1	
148	CLASSROOM	CLASSROOMS (AGS 9 PLUS)	676	6057	24.8	--	24	24	--	10	0.12	--	--	330.4	1.0	330.4	--	1000	34%	338	0	1	
149	CLASSROOM	CLASSROOMS (AGS 9 PLUS)	676	6057	24.8	--	24	24	--	10	0.12	--	--	330.4	1.0	330.4	--	1000	34%	338	0	1	
150	CONFERENCE	CONFERENCE ROOMS	875	7875	35.0	--	44	35	--	10	0.12	--	--	377.3	1.0	377.3	--	1170	24%	383	0	1	
150A	CONFERENCE	CONFERENCE ROOMS	875	7875	35.0	--	44	35	--	10	0.12	--	--	377.3	1.0	377.3	--	1170	24%	383	0	1	
150B	CONFERENCE	CONFERENCE ROOMS	875	7875	35.0	--	44	35	--	10	0.12	--	--	377.3	1.0	377.3	--	1170	24%	383	0	1	
151	CONF.	CONFERENCE ROOMS	281	2586	9.2	--	11	10	--	5	0.06	--	--	63.7	1.0	63.7	--	370	24%	126	0	1	
152	ELECTRICAL	VOID	111	999	4.4	--	--	--	--	--	--	--	--	--	1.0	--	--	--	0	24%	0	0	1
153	VOID	VOID	89	801	3.6	--	--	--	--	--	--	--	--	--	1.0	--	--	--	0	24%	0	0	1
154	VOID	VOID	89	801	3.6	--	--	--	--	--	--	--	--	--	1.0	--	--	--	0	24%	0	0	1
155	VOID	VOID	89	801	3.6	--	--	--	--	--	--	--	--	--	1.0	--	--	--	0	24%	0	0	1
156	VOID	VOID	89	801	3.6	--	--	--	--	--	--	--	--	--	1.0	--	--	--	0	24%	0	0	1
157	VOID	VOID	89	801	3.6	--	--	--	--	--	--	--	--	--	1.0	--	--	--	0	24%	0	0	1
158	VOID	VOID	89	801	3.6	--	--	--	--	--	--	--	--	--	1.0	--	--	--	0	24%	0	0	1



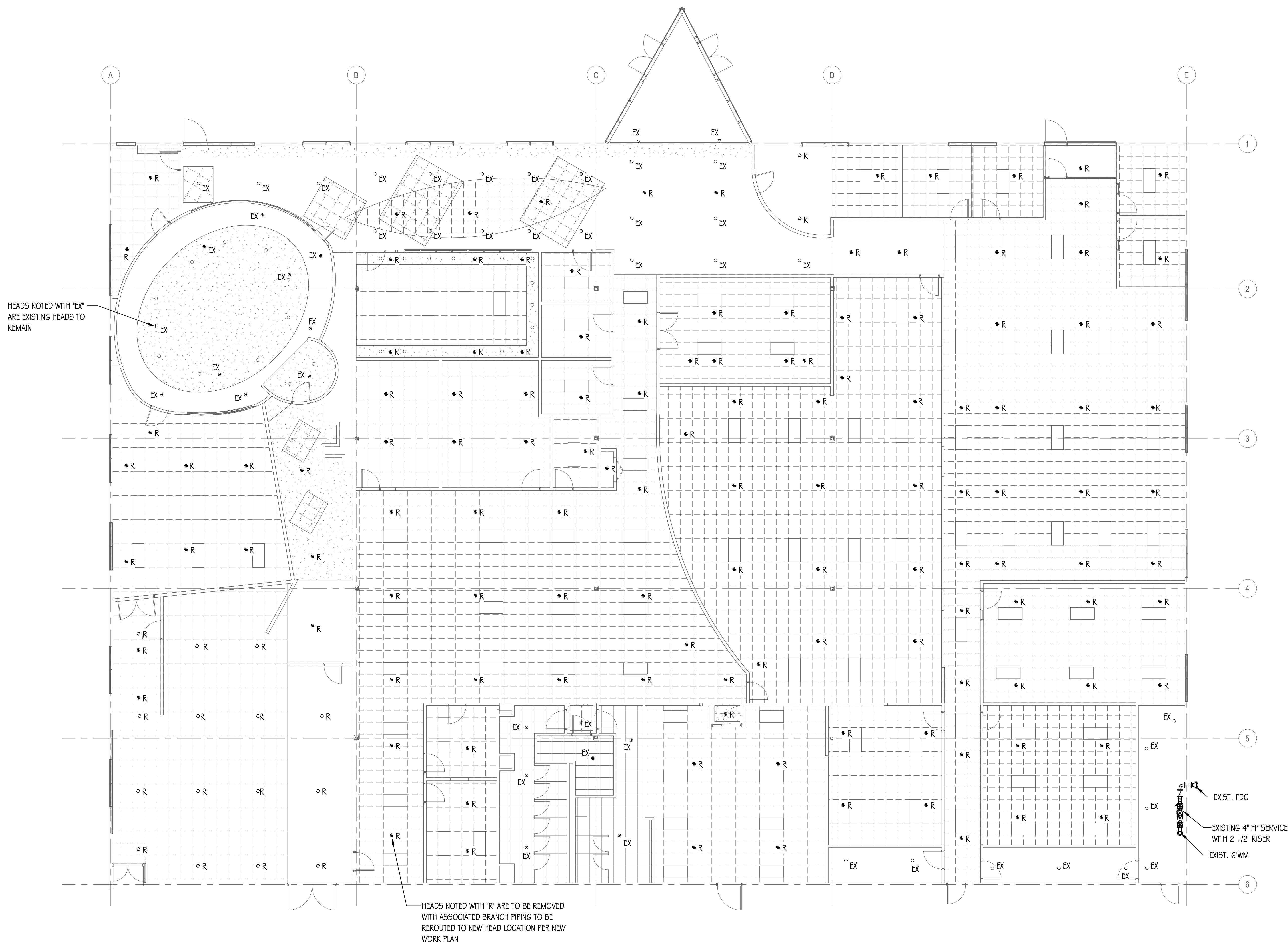
ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE  
 UNIVERSITY CENTER AT MCC**

222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050



HEADS NOTED WITH 'EX'  
 ARE EXISTING HEADS TO  
 REMAIN

HEADS NOTED WITH 'R' ARE TO BE REMOVED  
 WITH ASSOCIATED BRANCH PIPING TO BE  
 REROUTED TO NEW HEAD LOCATION PER NEW  
 WORK PLAN

- EXIST. FDC
- EXISTING 4" FP SERVICE  
 WITH 2 1/2" RISER
- EXIST. 6"WM

**1 FIRE PROTECTION DEMOLITION PLAN**  
 1/8" = 1'-0"

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**FIRE PROTECTION  
 DEMOLITION PLAN**

SHEET NUMBER:  
**FPD1.00**



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

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 P: 847.882.2010 F: 847.882.2201

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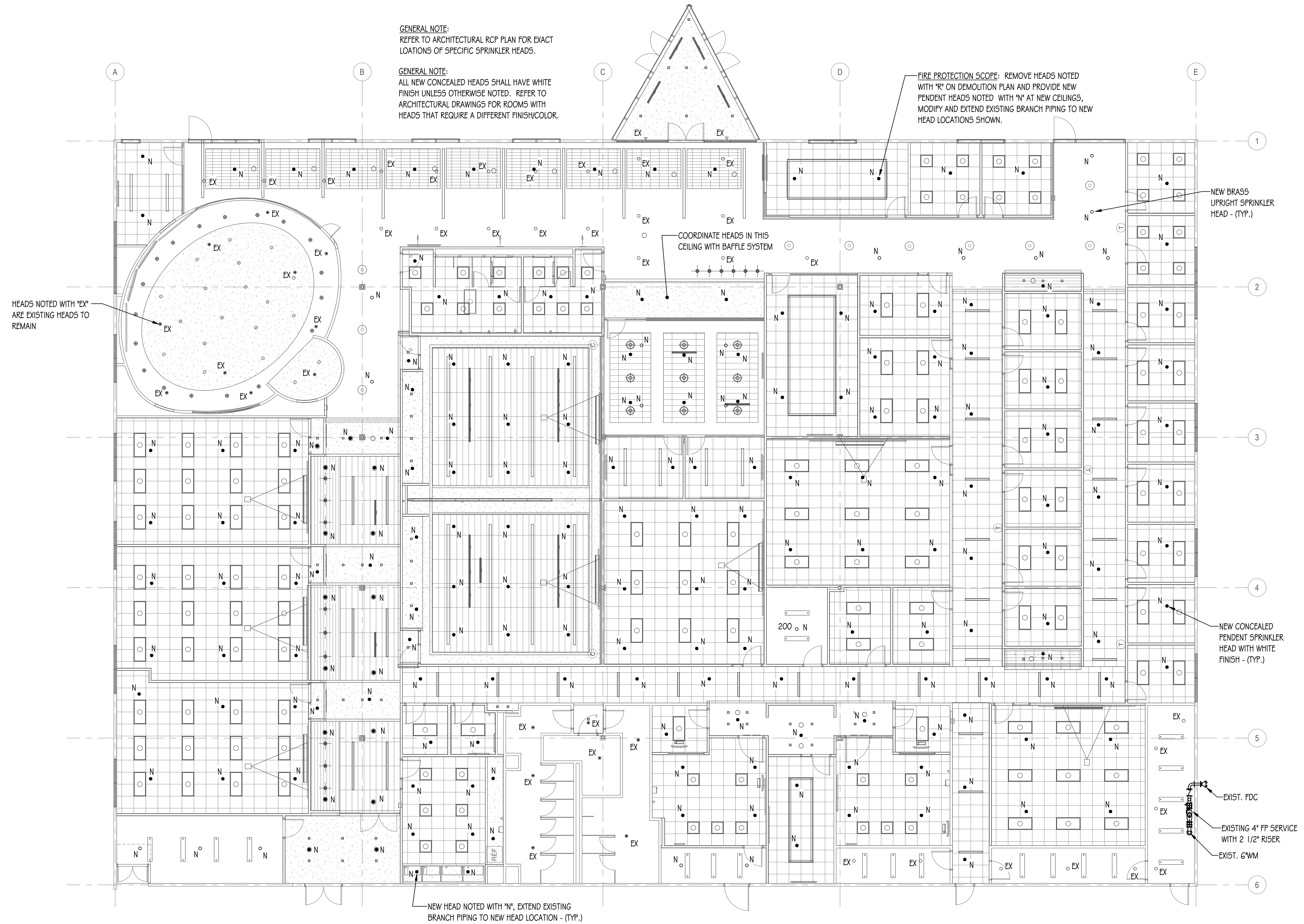
KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**FIRE PROTECTION  
 PLAN**

SHEET NUMBER:  
**FP1.00**



**1 FIRE PROTECTION PLAN**  
 1/8" = 1'-0"



**GENERAL NOTES - FIRE PROTECTION:**

**GENERAL**

- 1.1 SYSTEM TO PROVIDE COVERAGE FOR BUILDING AREAS NOTED. SYSTEMS SHALL CONFORM TO THE DESIGN CRITERIA REQUIRED BY NFPA-13 AND THE LOCAL AUTHORITY HAVING JURISDICTION. WORKING PLANS AND CALCULATIONS SHALL BE SUBMITTED TO LOCAL APPROVAL AGENCIES AND TO OWNERS FIRE PROTECTION CONSULTANT FOR APPROVAL.
- 1.2 ALL WORK SHALL BE INSTALLED AND ALL MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF NFPA-13, 20... EDITION AND ALL LOCAL AMENDMENTS.
- 1.3 CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THEIR ASSOCIATED FEES.
- 1.4 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL INSPECTIONS WITH THE LOCAL AUTHORITY HAVING JURISDICTION.
- 1.5 DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING, ETC., AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN COMPLETION DATE OF THE PROJECT.
- 1.6 ALL EXISTING PIPING INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM OWNER'S EXISTING CONSTRUCTION DOCUMENTS AND LIMITED FIELD SURVEY. EXACT LOCATION OF EXISTING SPRINKLER SYSTEM COMPONENTS SHALL BE FIELD VERIFIED BEFORE STARTING INSTALLATION.
- 1.7 THE CONTRACTOR SHALL BE RESPONSIBLE DURING THE INSTALLATION AND TESTING PERIODS OF THE FIRE SPRINKLER SYSTEM WORK, FOR ANY MATERIAL DAMAGE TO THE WORK OF THE OWNER OR OTHERS, AND TO THE PROPERTY AND MATERIALS OF THE OWNER OR OTHERS, INCLUDING CEILING SPRINKLER TILES, AND INCLUDING DAMAGE CAUSED BY GREASE, OIL, OR LEAKS IN SPRINKLER EQUIPMENT, FITTINGS, OR BY DISCONNECTED PIPES.
- 1.8 THE CONTRACTOR SHALL REVIEW THE DRAWINGS OF ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, HVAC, PLUMBING AND ELECTRICAL AS TO REVIEW FOR ADDITIONAL AREAS AND ASPECTS OF THE REQUIRED SPRINKLER DESIGN NOT SHOWN. CONTRACTOR SHALL VERIFY THE SPRINKLER REQUIREMENTS OF ALL SKYLIGHTS, CEILING POCKETS, FLOATING CEILINGS, CEILING ELEVATIONS, CEILING TYPES AND CONSTRUCTION, ATTIC SPACES, OVERBUILD ATTIC SPACES, STAIRCASE AND STAIRCASE LANDINGS, ELECTRICAL ROOMS, LIGHT FIXTURES, DUCTWORK, FURNITURE, AND OTHER OBSTRUCTIONS BY ARCHITECTURAL AND STRUCTURAL COMPONENTS. CONTRACTOR SHALL PROVIDE ALL REQUIRED SPRINKLER COVERAGE TO ADDRESS SUCH BUILDING CHARACTERISTICS.

**HAZARD CLASSIFICATIONS AND HYDRAULIC CALCULATIONS**

- 2.1 CONTRACTOR SHALL VERIFY EXISTING AVAILABLE FLOW DATA WITH MUNICIPALITY AND FIELD CONDITIONS. CONTRACTOR TO CONTACT ARCHITECT/ENGINEER AND LOCAL MUNICIPALITY 48 HOURS PRIOR TO FLOW TEST.
- 2.2 FINAL HYDRAULIC CALCULATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY PIPE SIZING SHOWN ON THE DRAWINGS REFLECT SCHEMATIC DESIGN AND ARE SHOWN FOR SUPPOSITIONAL PURPOSES IN THE FIRE PROTECTION SYSTEM(S) LAYOUT.
- 2.3 CONTRACTOR SHALL REVIEW ALL FLOOR PLANS AND DETERMINE EACH ROOM SPECIFIC HAZARD PER THE REQUIREMENTS OF NFPA-13. SPRINKLER DESIGN SHALL ADHERE TO THE STANDARDS SET FORTH IN NFPA-13.
- 2.4 LIGHT HAZARD AREAS SHALL BE DESIGNED TO 0.10 GPM PER SQUARE FOOT, 225 SQ.FT PER HEAD WITH A REMOTE AREA OF 1500 SQUARE FEET. AN AREA OF LESS THAN 1,500 SQUARE FEET MAY BE PERMITTED WHEN THE USE OF QUICK RESPONSE HEADS QUALIFIES FOR AN AREA REDUCTION. AREA SIZES SHALL BE DETERMINED BY THE REGULATIONS OF NFPA-13. ROOM TYPES SHALL INCLUDE BUT NOT BE LIMITED TO CLASSROOMS, TOILET ROOMS, CORRIDORS, VESTIBULES, MULTI-PURPOSE ROOMS, STAIRWAYS, EXAM ROOMS, OFFICE SPACES, ETC.
- 2.5 ORDINARY HAZARD GROUP 1 AREAS SHALL BE DESIGNED TO 0.15 GPM PER SQUARE FOOT, 130 SQ.FT PER HEAD WITH A REMOTE AREA OF 1,500 SQUARE FEET. ROOM TYPES SHALL INCLUDE BUT NOT BE LIMITED TO STORAGE ROOMS, ELECTRICAL ROOMS, MECHANICAL ROOMS, BOILER ROOM, SERVER ROOMS, ETC.

**PIPE HANGERS AND SUPPORTS**

- 3.1 ALL FIRE PROTECTION PIPING SHALL BE SUSPENDED WITH APPROVED/LISTED PIPE HANGERS IN COMPLIANCE WITH NFPA STANDARDS. CUTTING STRUCTURAL MEMBERS TO RUN PIPING, OR TO FACILITATE HANGER FASTENING IS NOT PERMITTED.
- 3.2 VERTICAL ATTACHMENT TO METAL DECK AND WOOD TRUSS'S SHALL NOT BE PERMITTED. HORIZONTAL ATTACHMENT TO WOOD TRUSS SHALL BE MADE BY HORIZONTAL SUPPORT TO BOTTOM CORD OF TRUSS.

**SPRINKLER SYSTEM COMPONENTS AND ACCESSORIES**

- 4.1 FIRE PROTECTION SYSTEM SHALL INCLUDE ALL ITEMS FOR A COMPLETE SYSTEM. SPECIFICALLY THIS IS TO INCLUDE BUT NOT LIMITED TO: PIPE SUPPORTS, VALVES, GAUGES, TRIM, ALARMS, SPECIALTY DEVICES, CONTROLS, AND ITEMS INCIDENTAL TO A COMPLETE SYSTEM.
- 4.2 EACH INSPECTOR'S TEST CONNECTION SHALL HAVE AN INSPECTOR'S TEST CONNECTION SIGN ATTACHED THERETO.
- 4.4 A FLOW DATA PLACARD SHALL BE PROVIDED FOR EACH HYDRAULICALLY CALCULATED REMOTE AREA. PLACARDS SHALL BE PROVIDED ON EACH SYSTEM RISER. FLOW DATA SHALL BE PROFESSIONALLY PRINTED WITH PERMANENT MEANS. HAND WRITTEN WITH PERMANENT MARKER ON LABEL SHALL NOT BE PERMITTED.
- 4.5 INSPECTORS TEST DRAIN AND MAIN DRAIN SHALL BE ROUTED THRU THE EXTERIOR WALL AND SPILL TO GRADE. IN CONDITIONS WHERE THIS IS NOT POSSIBLE, INSPECTORS TEST AND MAIN DRAIN SHALL BE ROUTED TO AN APPROVED INTERIOR OPEN SITE DRAIN AS APPROVED ARCHITECT AND ENGINEER.
- 4.6 AUXILIARY DRAINS AND SIGNS SHALL BE PROVIDED AT THE LOW POINT OF EACH TRAPPED SECTION OF PIPING AND IDENTIFYING SIGNS SHALL BE ATTACHED THERETO. INSTALL ALL AUXILIARY DRAIN VALVES IN ACCESSIBLE AREAS. FIELD COORDINATE LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
- 4.7 THE INTERCONNECTION OF THE ALARM SUPERVISORY SIGNALS MUST BE APPROVED BY THE PROPER ALARM REPRESENTATIVE, AND WORKING PLANS INDICATING THE LOCATIONS OF ALL ELECTRICAL COMPONENTS SHALL BE FURNISHED TO THE FIRE ALARM CONTRACTOR.

- 4.8 A SPARE HEAD CABINET WITH THE APPROPRIATE NUMBER OF SPARE HEADS BY TYPE USED ON THIS PROJECT AND A HEAD WRENCH SHALL BE INSTALLED ADJACENT TO THE RISER PER NFPA-13 SECTION 6.2.9.
- 4.9 CONTRACTOR SHALL PROVIDE ALL MEANS TO SHUT-DOWN EXISTING PIPING SYSTEMS WHERE REQUIRED TO COMPLETE WORK UNDER THIS CONTRACT. CONTRACTOR SHALL PROVIDE ALL NECESSARY VALVES TO ISOLATE RENOVATED SECTIONS OF THE BUILDING WITHOUT DISTURBING SECTIONS OF THE BUILDING NOT UNDER RENOVATION.
- 4.10 INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.
- 4.11 PROVIDE ACCESS TO ALL VALVES AND SYSTEM COMPONENTS REQUIRING ACCESS. ALL PIPING ACCESSORIES AND EQUIPMENT SUCH AS VALVES SHALL BE INSTALLED AT A REASONABLE HEIGHT AND POSITION IN ORDER TO FACILITATE MAINTENANCE.

**SPRINKLER HEADS**

- 5.1 ALL SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF 2x2 TILE OR QUARTER POINT OF 2x4 CEILING TILE UNLESS OTHERWISE NOTED OR DIRECTED BY THE ARCHITECT/ENGINEER OR LOCAL FIRE DEPARTMENT AUTHORITIES.
- 5.2 SPRINKLER HEADS IN FINISHED CEILING SHALL BE SEMI-RECESSED OR CONCEALED, TYPE AS INDICATED ON DRAWINGS. QUICK RESPONSE, WHITE PENDENT WITH ESCUTCHEON, K=5.6, 155 DEGREE UNLESS OTHERWISE NOTED. OPTION FOR QUICK RESPONSE SPRINKLERS ALLOWED WHERE PRESSURE PERMITS.
- 5.3 SPRINKLER HEADS IN NON-CEILING AREAS SHALL BE BRASS UPRIGHT. STANDARD RESPONSE, K=5.6, 155 DEGREE UNLESS OTHERWISE NOTED. OPTION FOR QUICK RESPONSE SPRINKLERS ALLOWED WHERE PRESSURE PERMITS.
- 5.5 SPRINKLER HEADS LOCATED WITHIN MECHANICAL ROOMS, SAUNA, STEAM, SPA ROOMS SHALL BE RATED FOR 212 DEGREES.
- 5.7 ALL SPRINKLER HEADS BELOW 7'-0" FEET OR IN MECHANICAL ROOMS, STORAGE ROOMS, GYMNASIUMS OR IN AREAS SUBJECTED TO MECHANICAL INJURY SHALL HAVE AN APPROVED HEAD GUARD.
- 5.8 CONTRACTOR SHALL PROVIDE ADDITIONAL SPRINKLER HEADS ABOVE AND BELOW MECHANICAL/ELECTRICAL DUCTS AND EQUIPMENT WHICH EXCEEDS 48 INCHES IN WIDTH.
- 5.9 SPRINKLER HEADS SHOWN ARE MINIMUMS. CONTRACTOR SHALL PROVIDE ADDITIONAL HEADS AS REQUIRED TO COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS OR TO PROVIDE ADEQUATE COVERAGE AS SPECIFIED OR REQUIRED BY APPROPRIATE HAZARD CLASS.

**FIRE PROTECTION (SPRINKLER) PIPING**

- 6.1 MINIMUM PIPE SIZE SHALL BE 1 INCH. ANY REDUCING OF SIZE SHALL OCCUR AT SPRINKLER HEAD CONNECTION.
- 6.2 SPRINKLER PIPING SHALL NOT BE INSTALLED DIRECTLY OVER ANY ELECTRICAL EQUIPMENT PANELS, TELEPHONE OR LOW VOLTAGE EQUIPMENT OR SIMILAR TYPE OF EQUIPMENT.
- 6.3 ALL PIPE AND FITTINGS SHALL BE INSTALLED IN RUST-FREE CONDITION.
- 6.4 THE USE OF THREADED BUSHINGS WILL NOT BE PERMITTED IN ANY AREA OF THIS INSTALLATION.
- 6.5 ALL PIPING AND COMPONENTS NECESSARY FOR INSTALLATION MAY BE PREFABRICATED. HOWEVER, THE CONTRACTOR MUST BE WILLING TO REWORK THE PREFABRICATED PIPE, FITTINGS, AND THE LIKE, AS NECESSARY TO CONSTITUTE A PROPER APPROVED INSTALLATION, EXISTING SITE CONDITIONS NOTWITHSTANDING, AT NO ADDITIONAL COST TO THE OWNER.
- 6.6 ALL NEW PIPING SHALL BE HYDROSTATICALLY TESTED @ 200 PSI FOR NO LESS THAN 2 HOURS. THE FIRE DEPARTMENT SHALL BE NOTIFIED (NO LESS THAN 48 HOURS PRIOR) OF THE DATE AND TIME OF THE TEST AND MAY WITNESS IT IF SO DESIRED OR REQUIRED.
- 6.7 ALL PIPING PASSING THRU FLOOR CONSTRUCTION SHALL HAVE A SCHEDULE 40 STEEL PIPE SLEEVE INSTALLED AROUND PIPE ONLY. ALL PIPE PASSING THRU WALLS SHALL HAVE A GALVANIZED SHEET METAL OR SCHEDULE 40 STEEL PIPE SLEEVE INSTALLED AROUND THE PIPE. ALL EXPOSED PIPE WHICH PASSES THROUGH A WALL OR CEILING SHALL BE EQUIPPED WITH AN ESCUTCHEON PLATE.
- 6.8 ALL PIPING SHALL BE INSTALLED TO ALLOW FOR PROPER DRAINING OF ENTIRE SYSTEM PER NFPA-13.
- 6.9 SCREWED UNIONS SHALL NOT BE PERMITTED ON PIPING LARGER THAN 1 1/2 INCHES.
- 6.10 ALL NEW CONNECTIONS MADE TO AN EXISTING SYSTEM MAIN SHALL BE ACCOMPLISHED WITH A CUT-IN OR TEE FITTING OF EQUAL SIZE TO THAT OF THE EXISTING MAIN.
- 6.11 FIRE PROTECTION PIPING SHALL BE AS FOLLOWS:
  - A. (1 1/2") STEEL PIPE: ASTM A795; SCHEDULE 40, BLACK STEEL FITTINGS: ASME B16.5, STEEL FLANGES AND FITTINGS: CAST IRON FITTINGS: ASME 16.1, FLANGES AND FLANGED FITTINGS; OR ASME B16.4, THREADED FITTINGS. MALLEABLE IRON FITTINGS: ASME B16.3, THREADED FITTINGS.
  - B. (2 (1/2"-6") STEEL PIPE: ASTM A795; SCHEDULE 40, BLACK, GROOVED END FITTINGS: ASTM A536 DUCTILE IRON HOUSING TO ENGAGE AND LOCK, MECHANICAL GROOVED COUPLINGS: DUCTILE IRON HOUSING CLAMPS TO ENGAGE AND LOCK, "C" SHAPED ELASTOMERIC SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS.
  - C. (1 1/4"-6") STEEL PIPE: ASTM A135, SCHEDULE 10, BLACK, STEEL FITTINGS: ASME B16.5, STEEL FLANGES AND FITTINGS. GROOVED END FITTINGS: ASTM A536 DUCTILE IRON HOUSING TO ENGAGE AND LOCK, MECHANICAL GROOVED COUPLINGS: DUCTILE IRON HOUSING CLAMPS TO ENGAGE AND LOCK, "C" SHAPED ELASTOMERIC SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS.

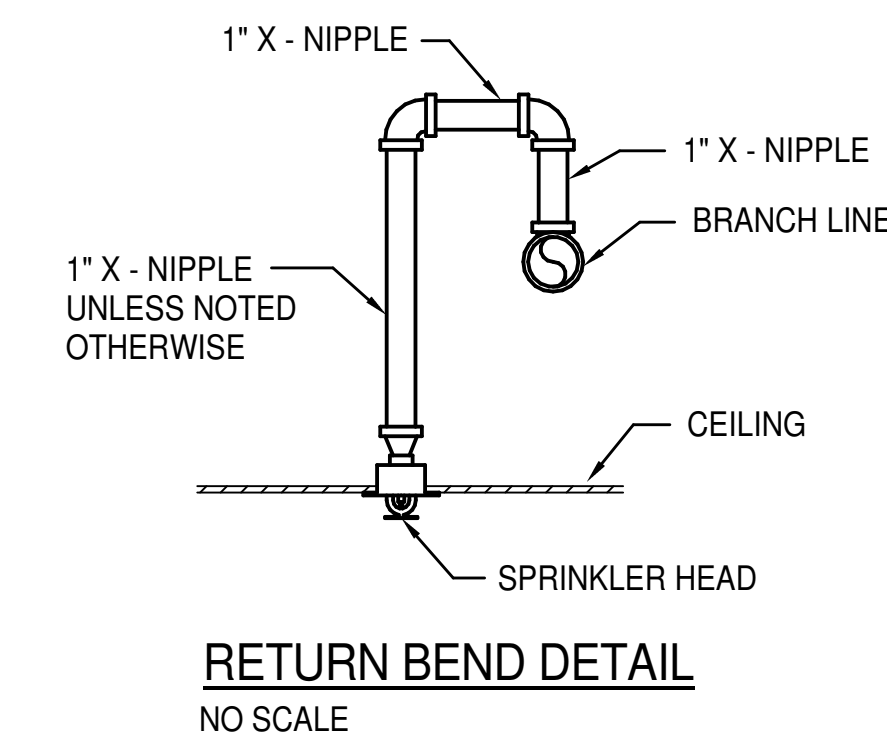
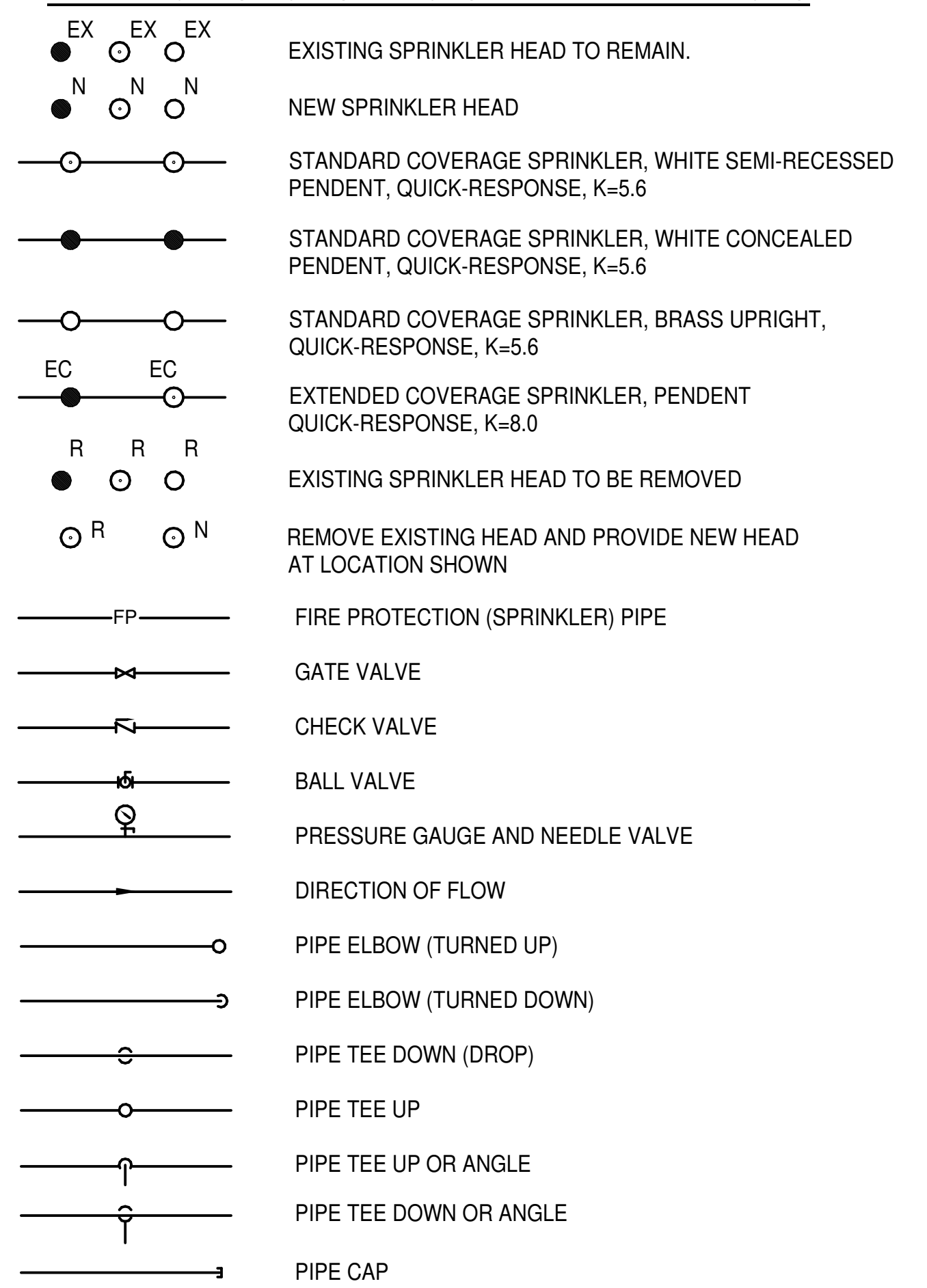
**PIPE AND VALVE IDENTIFICATION**

- 7.1 PROVIDE PIPE LABELING IDENTIFICATION PER ASME A13.1. SEE DETAIL FOR ADDITIONAL INFORMATION. PIPE LABELS SHALL BE WRAP AROUND TYPE. SELF ADHESIVE TYPE SHALL NOT BE PERMITTED.

**FIRE STOP SYSTEMS**

- 7.2 GENERAL PURPOSE FIRE STOPPING SEALANT SHALL BE DOW CORNING, NELSON OR 3M COMPANY; WATER BASED, NON SLUMPING, PREMIXED SEALANT WITH INTUMESCENT PROPERTIES, RATED FOR 3 HOURS PER ASTM E814, NFPA AND UL-1479. FILL ALL VOIDS AROUND ALL PIPING PENETRATIONS THROUGH WALLS AND CEILINGS WITH A MINIMUM 1 HOUR FIRE RATING. PROVIDE PVC COLLAR ASSEMBLY AT ALL PVC PIPING PENETRATIONS THROUGH FIRE WALLS, FLOORS OR CEILING WHERE REQUIRED BY LOCAL FIRE DISTRICT.

**FIRE PROTECTION SYMBOLS AND ABBREVIATIONS**



**FIRE PROTECTION SYMBOLS AND ABBREVIATIONS**

AFF.	ABOVE FINISHED FLOOR	G	GUARD
BFP	BACKFLOW PREVENTER	GPM	GALLONS PER MINUTE
DRY		OS&Y	OUTSIDE STEM AND YOKE
DN.	DOWN	PH	PHASE
FD	FLOOR DRAIN	PSI	POUNDS PER SQUARE INCH
FDC	FIRE DEPARTMENT CONNECTION	TYP.	TYPICAL
FP	FIRE PROTECTION	V	VANDAL RESISTANT



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**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

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**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE**  
**UNIVERSITY CENTER AT MCC**  
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 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**FIRE PROTECTION**  
**GENERAL NOTES,**  
**SYMBOLS AND**  
**ABBREVIATIONS**

SHEET NUMBER:  
**FP5.00**



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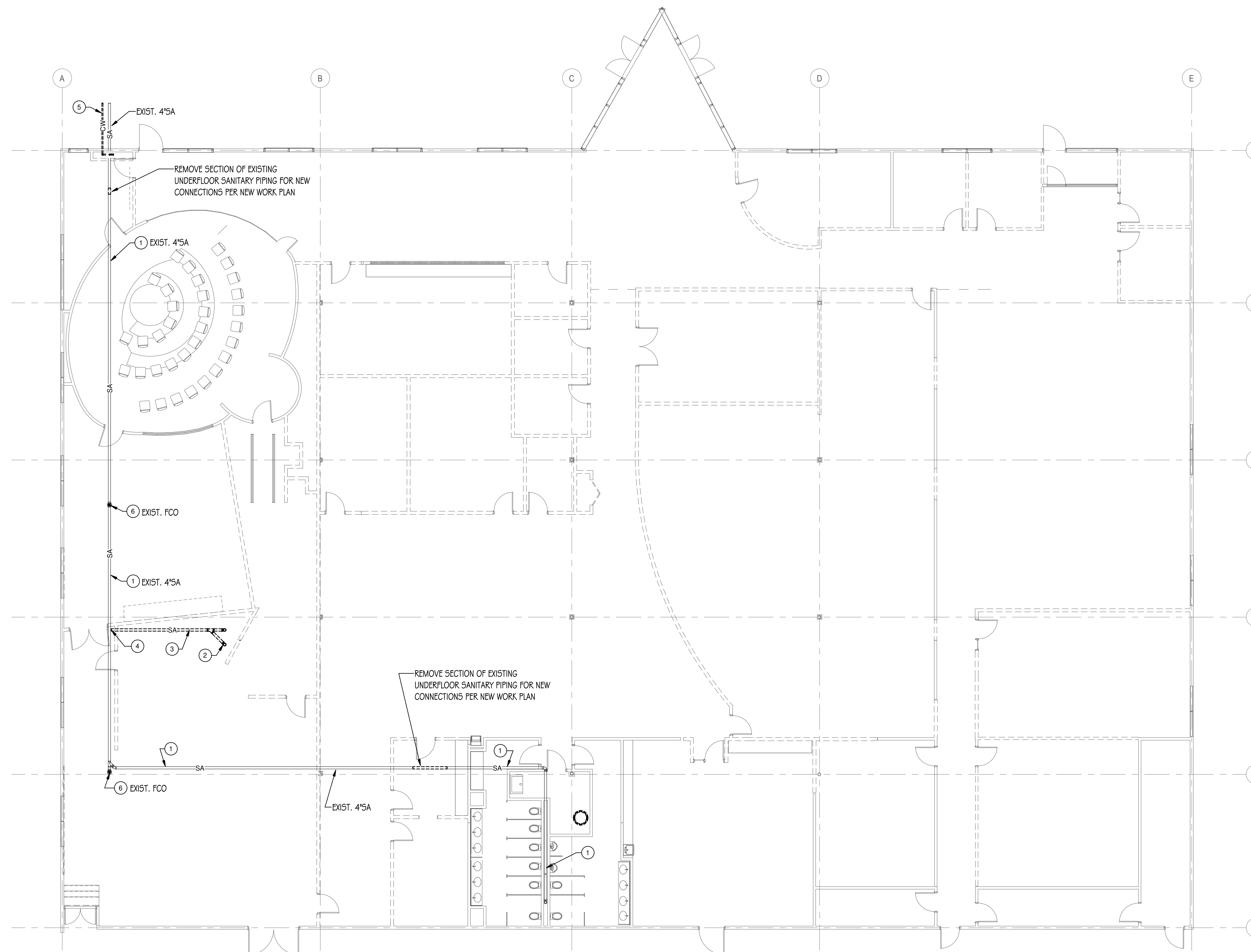
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**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**UNDERFLOOR PIPING AND FLOOR SAW CUTTING NOTES:**

1. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FLOOR CUTTING AND PATCHING OF EXISTING FLOOR TO ACCOMMODATE DEMOLITION AND NEW UNDERGROUND PIPING SHOWN UNDER EXISTING FLOORS.
2. ALL EXISTING PIPING INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM OWNERS EXISTING CONSTRUCTION DOCUMENTS AND LIMITED FIELD SURVEY. EXACT LOCATION OF EXISTING UNDERGROUND SANITARY, VENT STORM PIPING ALL PIPE SIZES SHALL BE FIELD VERIFIED BEFORE STARTING INSTALLATION. FOR UNDERGROUND PIPING, CONTRACTOR SHALL FIELD VERIFY EXISTING PIPE LOCATIONS, CONNECTION LOCATION, SIZE, DIRECTION OF FLOW, AND DEPTH VIA PIPE LOCATING/TELEVISIONS EQUIPMENT PRIOR TO SAW CUTTING OF FLOOR OR BEGINNING WORK.
3. WHEN SAW CUTTING THE FLOOR, CONTRACTOR SHALL USE CAUTION TO PREVENT CUTTING OF ANY UNDERFLOOR UTILITIES. CONTRACTOR SHALL VERIFY ALL EXISTING UNDERFLOOR UTILITIES PRIOR TO CUTTING OF FLOOR VIA X-RAY FLOOR SCANNING EQUIPMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR ANY DAMAGES TO THE EXISTING UNDERFLOOR UTILITIES OCCURRED DURING CONSTRUCTION AT NO COST TO THE OWNER.
4. DRILL AND DOWEL EXISTING CONCRETE FOR #4 ROD AT 16" O.C.. #4 ROD TO BE 12" LONG WITH 6" PROJECTION INTO EXISTING CONCRETE. REPLACE WITH 5" CONCRETE SLAB INFILL WITH ONE LAYER 6X6-8/8 W/MF 1" CLR TO TOP ON 30 MIL VAPOR BARRIER OVER COMPACTED GRANULAR FILL - TYPICAL. (FIELD VERIFY EXISTING SLAB THICKNESS) EXERCISE CARE SO AS NOT TO UNDERMINE OR DISTURB BUILDING FOUNDATIONS OR REMAINING SLAB ON GRADE. SLOPE EXCAVATIONS AS REQUIRED TO GRADUALLY REACH THE ELEVATIONS.
5. WHERE UNDERGROUND PIPING IS TO BE DISCONNECTED OR REMOVED, PIPING SHALL BE CAPPED AT MAIN PER IDPH REQUIREMENTS.

**DRAWING NOTES**

- 1 EXISTING PLUMBING PIPING TO REMAIN.
- 2 REMOVE EXISTING FLOOR DRAIN AND CLEANOUT, REMOVE PIPING TO BELOW FLOOR AND CAP. PATCH FLOOR TO MATCH EXISTING.
- 3 ABANDON PIPING BELOW SLAB.
- 4 DISCONNECT PIPING AT MAIN AND CAP AT MAIN.
- 5 ABANDON EXISTING WATER MAIN, WATER MAIN TO BE DISCONNECTED AND CAPPED AT MAIN, SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
- 6 REMOVE EXISTING FLOOR CLEANOUT AND PROVIDE NEW FLOOR CLEANOUT, TYPE AS INDICATED WITH CARPET MARKER. OPEN AND PATCH FLOOR AS REQUIRED TO REPLACE FLOOR CLEANOUT, COORDINATE WITH NEW FLOOR FINISH LEVEL.



**1 UNDERFLOOR PLUMBING DEMOLITION PLAN**  
 1/8" = 1'-0"

**MCHENRY COUNTY COLLEGE  
 UNIVERSITY CENTER AT MCC**

222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

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**UNDERFLOOR  
 PLUMBING  
 DEMOLITION PLAN**

SHEET NUMBER:

**PD1.00**



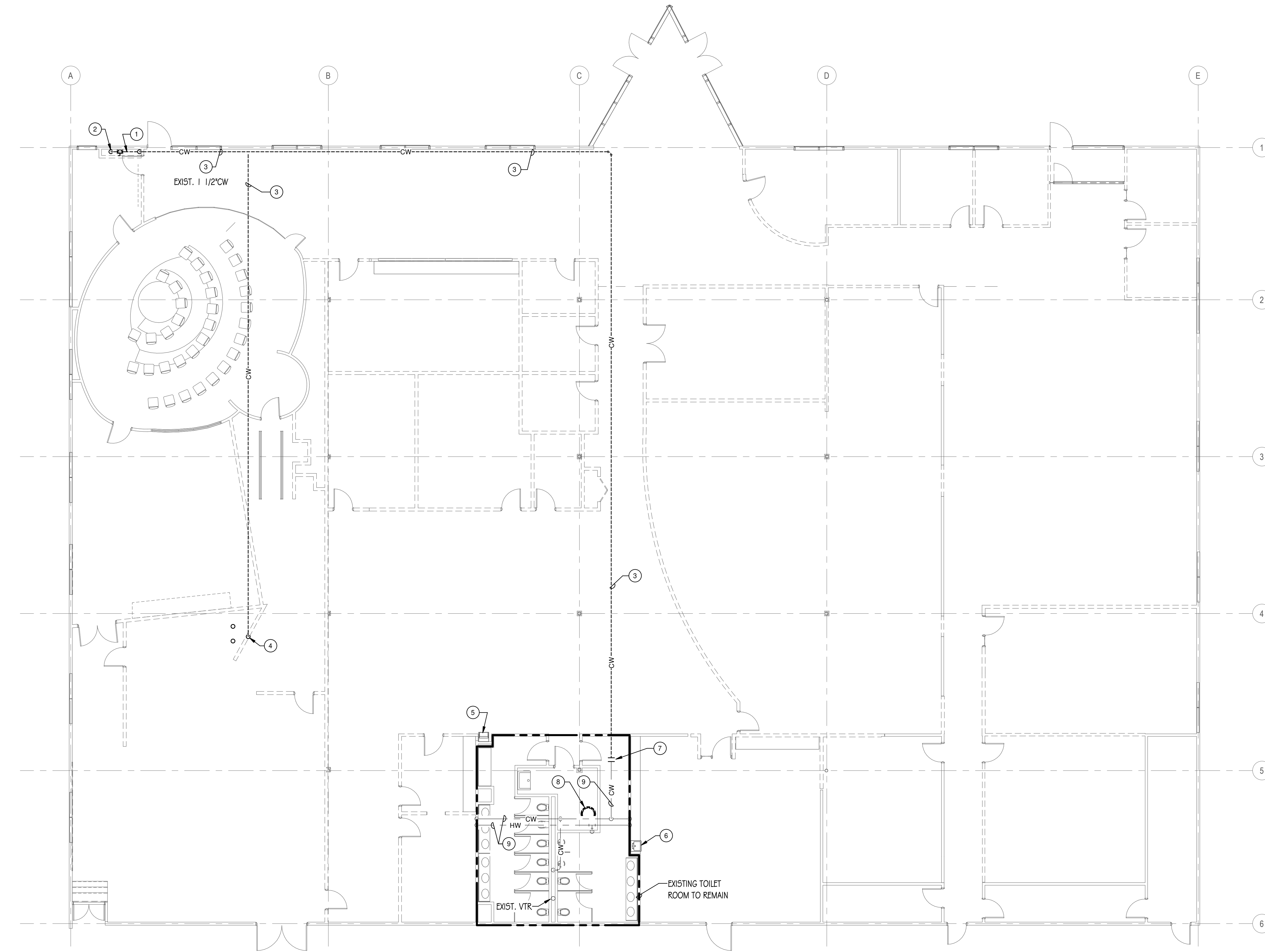
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 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
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 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

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**1 PLUMBING DEMOLITION PLAN**  
 1/8" = 1'-0"

**DRAWING NOTES**

- 1 REMOVE EXISTING WATER SERVICE, METER, ETC., CAP AND ABANDON EXISTING WATER MAIN. REMOVE ALL ASSOCIATED SUSPENDED COLD WATER PIPING SHOWN DASHED.
- 2 REMOVE EXIST. HOSE VALVE, PATCH WALL TO MATCH EXISTING.
- 3 REMOVE SUSPENDED PLUMBING PIPING SHOWN DASHED.
- 4 REMOVE HOSE VALVE, REMOVE ALL ASSOCIATED COLD WATER PIPING SHOWN DASHED BACK TO LOCATION SHOWN.
- 5 REMOVE ELEC WATER COOLER. REMOVE EXIST. COLD WATER ROUGH-IN. MODIFY SAN AND VENT ROUGH-IN PER NEW WORK PLAN FOR NEW FIXTURE.
- 6 REMOVE EXISTING SINK. REMOVE EXISTING CWHW ROUGH-IN. MODIFY SAN AND VENT ROUGH-IN PER NEW WORK PLAN FOR NEW FIXTURE.
- 7 NEW CONNECTION TO BE MADE AT THIS LOCATION, REMOVE ALL PIPING SHOWN DASHED BEYOND THIS POINT.
- 8 DISCONNECT AND REMOVE EXISTING WATER HEATER FOR REPLACEMENT PER NEW WORK PLAN.
- 9 EXISTING PLUMBING PIPING TO REMAIN.

SHEET STATUS: 9.19.23

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**PLUMBING  
 DEMOLITION PLAN**

SHEET NUMBER:

**PD1.10**



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 CHICAGO, IL 60661  
 P: 312.496.0000

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**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
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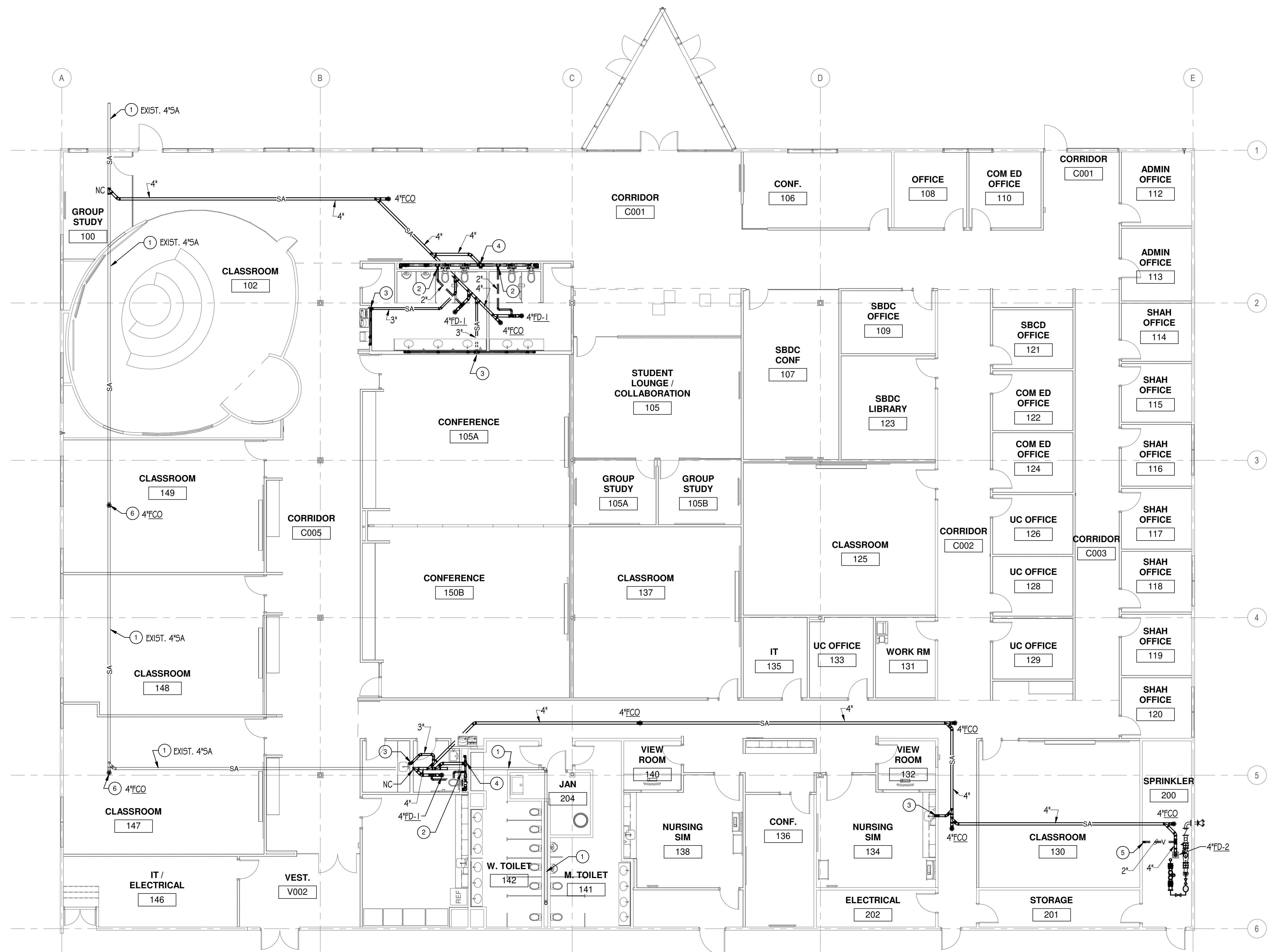
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5. WHERE UNDERGROUND PIPING IS TO BE DISCONNECTED OR REMOVED, PIPING SHALL BE CAPPED AT MAIN PER IDPH REQUIREMENTS.

**DRAWING NOTES**

- EXISTING PLUMBING PIPING TO REMAIN.
- 2"V UP IN WALL FOR CHASE.
- 3"SA UP IN WALL OR CHASE.
- 4"SA UP IN WALL OR CHASE.
- 2"V UP ALONG WALL.
- REMOVE EXISTING FLOOR CLEANOUT AND PROVIDE NEW FLOOR CLEANOUT, TYPE AS INDICATED WITH CARPET MARKER. OPEN AND PATCH FLOOR AS REQUIRED TO REPLACE FLOOR CLEANOUT. COORDINATE WITH NEW FLOOR FINISH LEVEL.



**1 UNDERFLOOR PLUMBING PLAN**  
 1/8" = 1'-0"

**MCHENRY COUNTY COLLEGE**  
**UNIVERSITY CENTER AT MCC**  
 222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

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**UNDERFLOOR PLUMBING PLAN**

SHEET NUMBER:  
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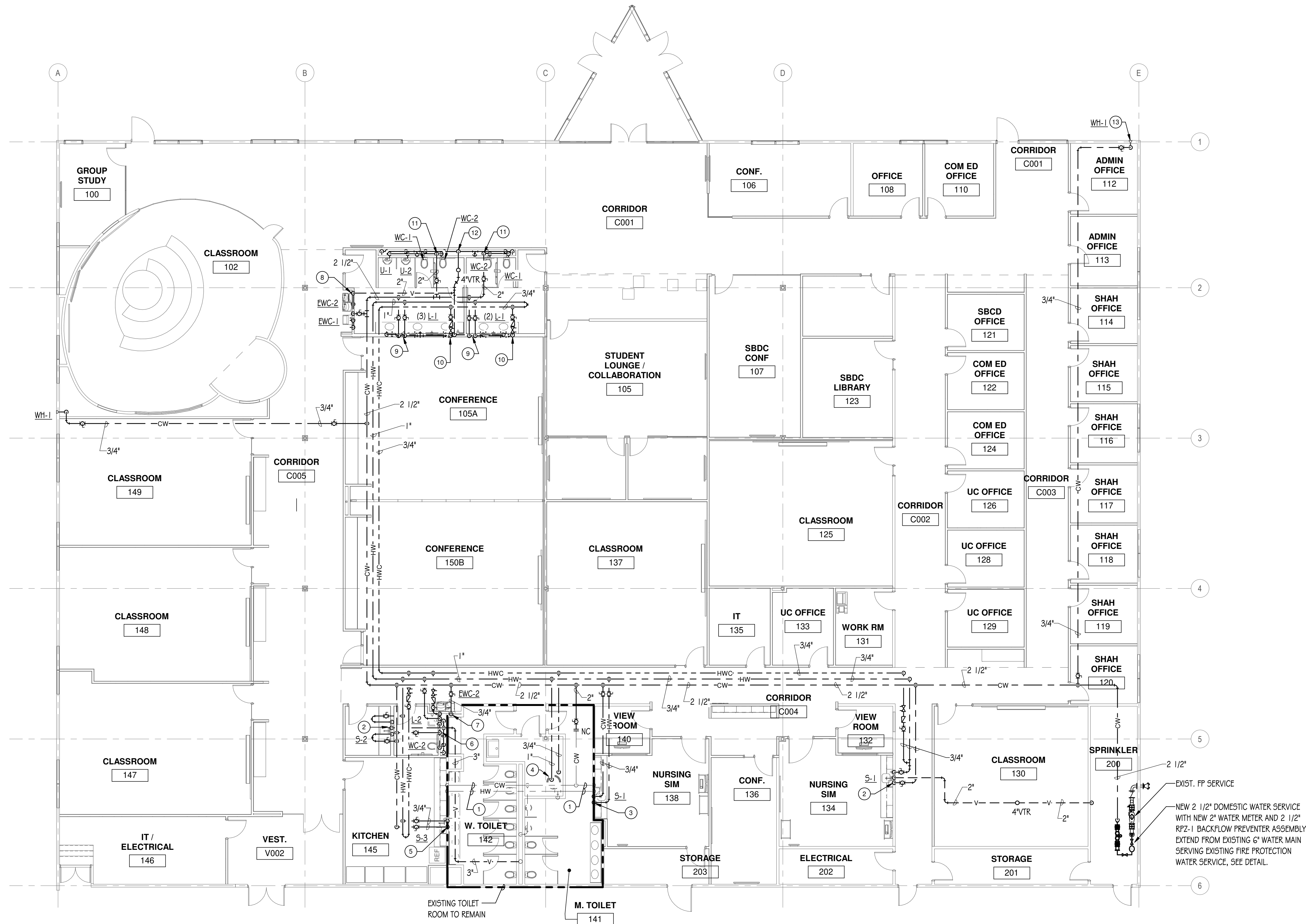
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 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

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**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

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**1 PLUMBING NEW WORK PLAN**  
 1/8" = 1'-0"

**DRAWING NOTES**

- EXISTING PLUMBING PIPING TO REMAIN.
- 3/4"CW/HW & 2"V DOWN IN WALL.
- 3/4"CW/HW DOWN IN WALL, SINK IN THIS ROOM TO BE SERVED FROM SEPARATE WATER SUPPLY BRANCH PIPING AND VALVES FROM ADJACENT TOILET ROOM. MODIFY EXISTING DWV ROUGH-IN TO ACCOMMODATE NEW SINK AT SHIFTED LOCATION.
- PROVIDE REPLACEMENT WATER HEATER (DWH-1), TYPE AS INDICATED. PROVIDE NEW EXPANSION TANK (DWET-1) AND IN-LINE RECIRC PUMP (DWP-1). SEE DETAIL FOR ADDITIONAL INFORMATION.
- 3/4"CW/HW DOWN IN WALL, SINK IN THIS ROOM TO BE SERVED FROM SEPARATE WATER SUPPLY BRANCH PIPING AND VALVES FROM ADJACENT TOILET ROOM. PROVIDE NEW SANITARY/VENT ROUGH-IN, MAKE NEW CONNECTION TO EXISTING SANITARY AND VENT IN WALL SERVING LAVATORIES ON OPPOSITE SIDE OF WALL.
- 1/2"CW, 3/4"HW, 3/4"HWC & 3"V DOWN IN CHASE.
- 3/4"CW DOWN IN WALL, EWC TO BE SERVED BY SEPARATE BRANCH PIPING AND VALVE.
- 3/4"CW & 2"V DOWN IN WALL.
- 3/4"CW/HW DOWN IN WALL.
- 3/4"HWC DOWN IN WALL.
- 2"CW DOWN IN CHASE.
- 4"V DOWN IN CHASE.
- REMOVE AND REPLACE EXISTING WALL HYDRANT ON EXTERIOR WALL, ROUTE NEW 3/4"CW DOWN IN EXISTING CHASE/WALL. OPEN AND PATCH WALL TO ROUTE NEW PIPING.

EXIST. FP SERVICE  
 NEW 2 1/2" DOMESTIC WATER SERVICE WITH NEW 2" WATER METER AND 2 1/2" RPZ-1 BACKFLOW PREVENTER ASSEMBLY, EXTEND FROM EXISTING 6" WATER MAIN SERVING EXISTING FIRE PROTECTION WATER SERVICE, SEE DETAIL.

KEY PLAN:

SHEET STATUS: 9.19.23

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**PLUMBING PLAN**

SHEET NUMBER:

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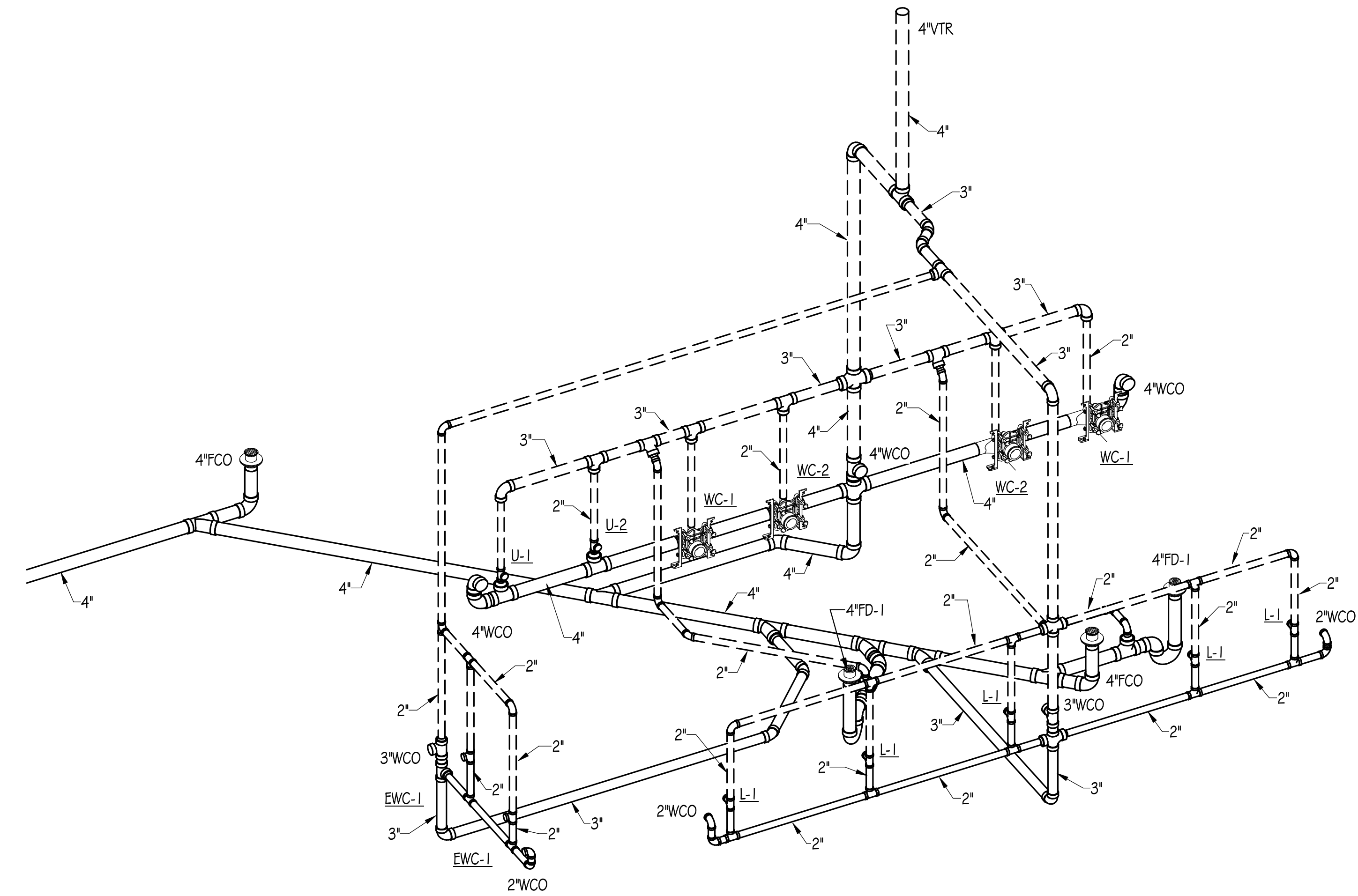
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 CHICAGO, IL 60661  
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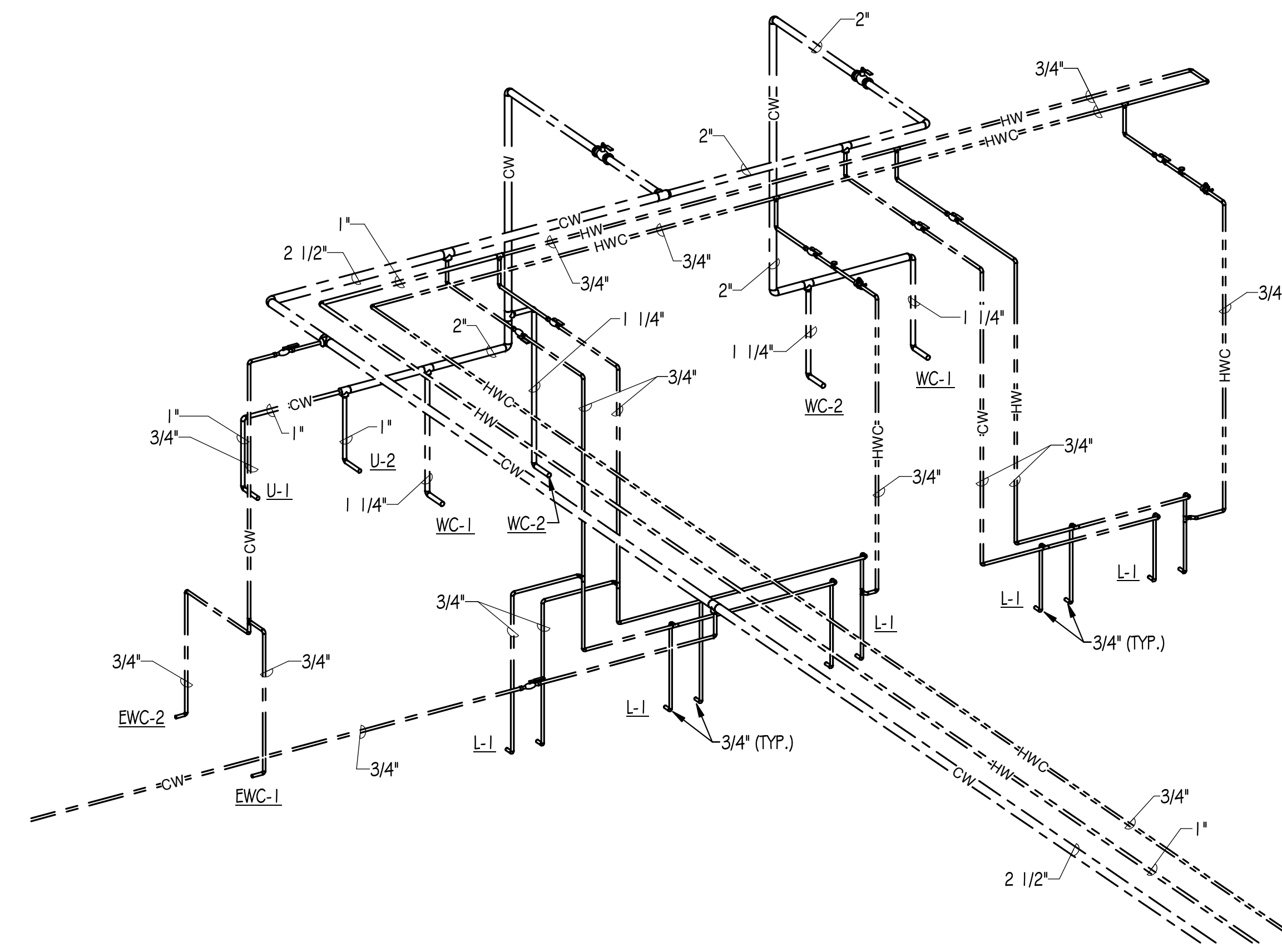
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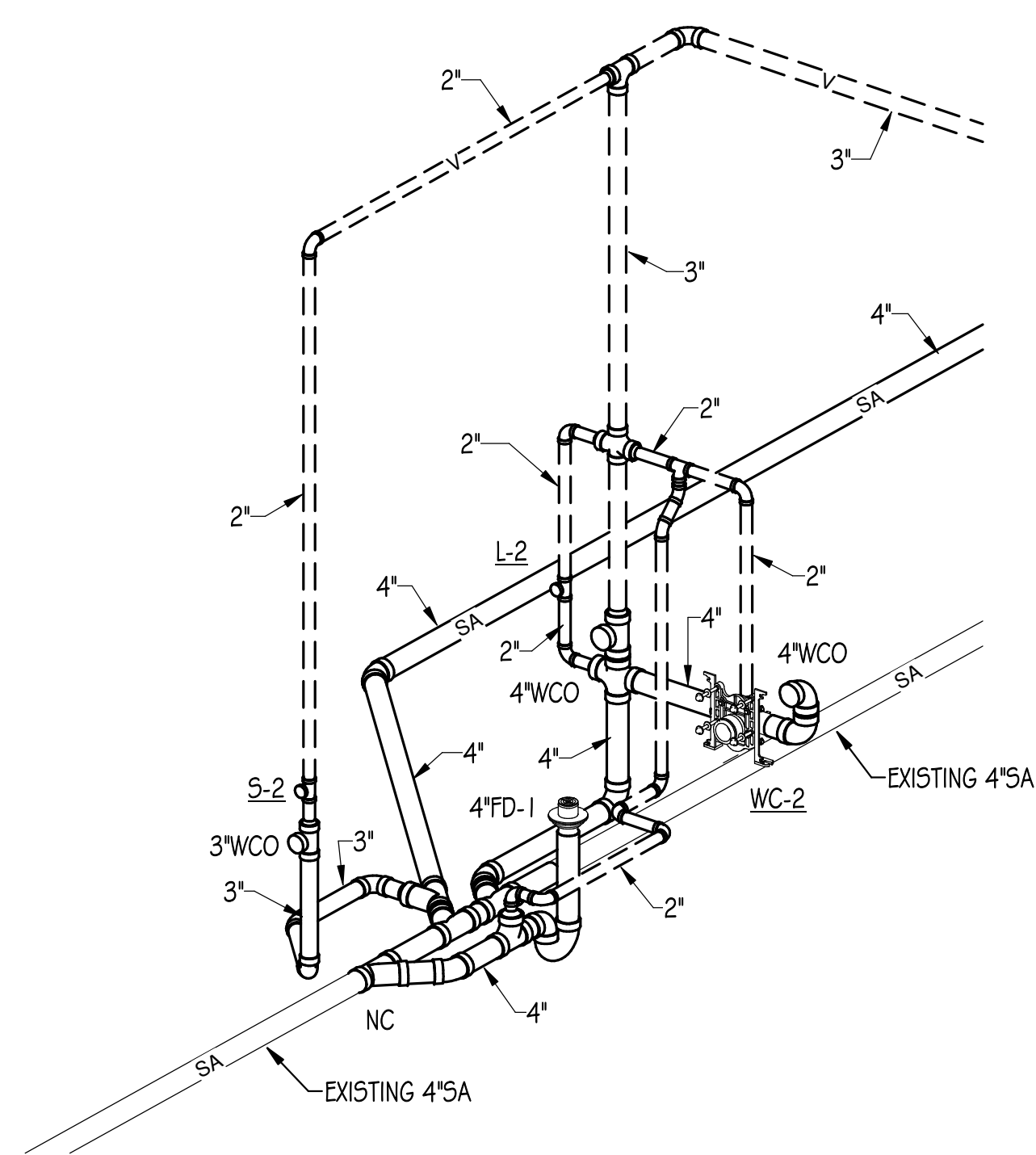
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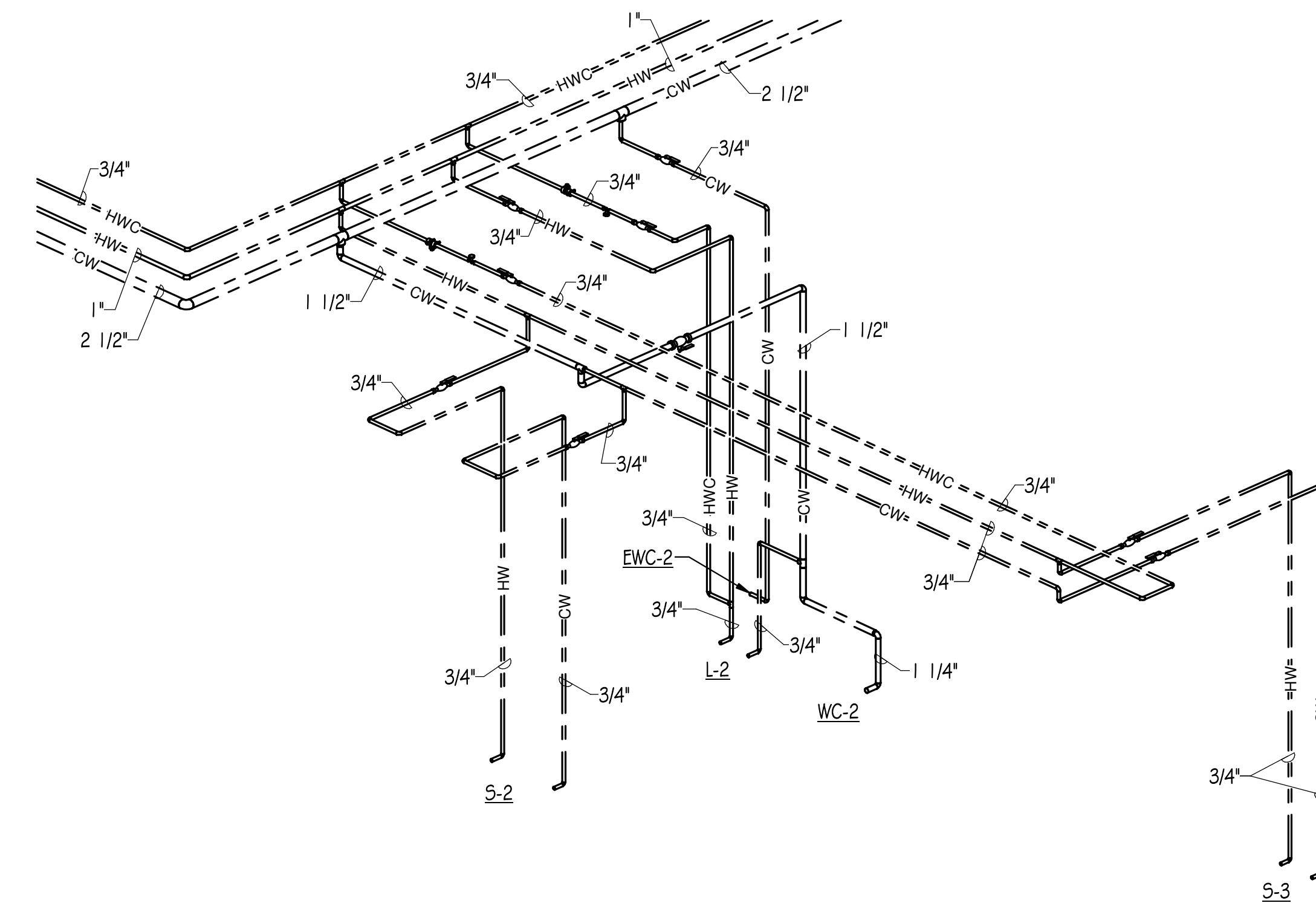
1 PLUMBING RISER DIAGRAM - WASTE AND VENT - TOILET ROOMS 103/104



2 PLUMBING RISER DIAGRAM - WATER SUPPLY - TOILET ROOMS 103/104



3 PLUMBING RISER DIAGRAM - WASTE AND VENT - TOILET ROOMS 144



4 PLUMBING RISER DIAGRAM - WATER SUPPLY - TOILET ROOMS 144

KEY PLAN:

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 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
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**PLUMBING SYMBOLS AND ABBREVIATIONS**

— CW —	DOMESTIC COLD WATER
— HW —	DOMESTIC HOT WATER
— HWC —	DOMESTIC HOT WATER CIRCULATING
— ST —	SUSPENDED STORM SEWER
— SA —	UNDERGROUND SANITARY SEWER
— ST —	UNDERGROUND STORM SEWER
— V —	SUSPENDED VENT PIPING
----	PIPING TO BE REMOVED (DEMOLITION DRAWING ONLY)
	GATE VALVE
	CHECK VALVE
	BALL VALVE
	CIRCUIT BALANCING VALVE
—	DIRECTION OF FLOW
	PIPE ELBOW (TURNED UP)
	PIPE ELBOW (TURNED DOWN)
	PIPE TEE DOWN (DROP)
	PIPE TEE UP
	PIPE TEE UP OR ANGLE
	PIPE TEE DOWN OR ANGLE
	NEW CONNECTION
	WALL HYDRANT
	CLEANOUT IN SUSPENDED CEILING
	FLOOR CLEANOUT (ROUND)
	FLOOR DRAIN (ROUND)
CO	CLEANOUT
CW	COLD WATER
DWH	DOMESTIC WATER HEATER
DWP	DOMESTIC WATER PUMP
DWET	DOMESTIC WATER EXPANSION TANK
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
HW	HOT WATER
HWC	HOT WATER CIRCULATING
L	LAVATORY
MB	MOP BASIN
NC	NEW CONNECTION
S	SINK
SA	SANITARY
ST	STORM
TMV	THERMOSTATIC MIXING VALVE
TYP.	TYPICAL
U	URINAL
V	VENT
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT

**PLUMBING GENERAL NOTES**

GENERAL

- 1.1 ALL WORK SHALL BE INSTALLED AND ALL MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF ILLINOIS DEPARTMENT OF PUBLIC HEALTH ILLINOIS PLUMBING CODE 2014 EDITION AND ALL LOCAL AMENDMENTS TO THE PLUMBING CODE.
- 1.2 IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL INSPECTIONS WITH THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH STATE PLUMBING INSPECTORS AND THE LOCAL PLUMBING INSPECTOR HAVING JURISDICTION.
- 1.3 EXACT LOCATION OF PLUMBING FIXTURES AND DEVICES SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS, ACTUAL BUILDING WALLS, FLOORS AND CEILING, CABINETRY AND EQUIPMENT SHOP DRAWINGS PRIOR TO STARTING ANY WORK.
- 1.4 DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING, ETC., AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN COMPLETION DATE OF THE PROJECT.
- 1.5 PITCH ALL SUPPLY AND RETURN WATER LINES TO DRAIN COMPLETELY THROUGH LOWER EQUIPMENT FIXTURES, UNIONS, OR DRAIN VALVES. INSTALL A 1/2" DRAIN VALVE WITH 3/4" HOSE THREAD OUTLET IN ALL MAIN PIPING RUNS WHICH WOULD NOT BE ABLE TO DRAIN THRU A LOWER PIECE OF EQUIPMENT.
- 1.6 ALL VENT AND WASTE PIPING SIZES ARE MINIMUM. ADDITIONAL VENTS SHALL BE ADDED AND/OR PIPE SIZE INCREASED AS REQUIRED BY APPLICABLE CODES, STATUTES AND REGULATIONS, ETC. WITHOUT ADDITIONAL COST TO THE OWNER.
- 1.7 PIPE SIZE SHALL BE MAINTAINED FULL SIZE UP TO "LOOK-OUT" AT FIXTURE CONNECTION.
- 1.8 STERILIZATION: UPON COMPLETION OF TESTING AND FLUSHING OF NEW DOMESTIC WATER PIPING, THE CONTRACTOR SHALL STERILIZE ALL WATER PIPING INCLUDING ALL DOMESTIC HOT WATER SUPPLY AND RETURN AND ALL DOMESTIC COLD WATER PIPING. CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY TAPPINGS, VALVE OPENINGS, DRAIN FITTINGS, ETC., AS REQUIRED TO STERILIZE THE WATER PIPING, INCLUDING ALL REQUIRED EXCAVATION WORK, FITTING AND LABOR. WATER PIPING SHALL BE FLUSHED AND CHLORINATED AS SPECIFIED IN AWWA-C-601-54 STANDARD PROCEDURE FOR DISINFECTING WATER MAINS AND AS REQUIRED BY ILLINOIS DEPARTMENT OF PUBLIC HEALTH. DISINFECTING SHALL NOT BE DEEMED COMPLETED UNTIL SATISFACTORY BACTERIOLOGICAL ANALYSIS REPORTS ARE RECEIVED FOR SAMPLES OF WATER COLLECTED AND TESTED FROM THE NEW WATER PIPING SYSTEM ALL BY PLUMBING CONTRACTOR.
- 1.9 PROVIDER AIR CHAMBERS ON WATER SUPPLY PIPING AT EACH FIXTURE PER ILLINOIS PLUMBING CODE. OR PROVIDE WATER HAMMER ARRESTORS MIFAB MWH SERIES OR APPROVED EQUAL. WATER HAMMER ARRESTORS SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION FOR SERVICE AND EASY REPLACEMENT. LOCATIONS, SIZE AND QUANTITIES SHALL BE DETERMINED BY CONTRACTOR. LOCATIONS IN PLUMBING CHASE SHALL REQUIRE AN ACCESS PANEL AND ALL ACCESS PANEL LOCATIONS SHALL BE COORDINATED AND APPROVED BY ARCHITECT/OWNER.
- 1.10 ALL EXISTING PIPING INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM OWNER'S EXISTING CONSTRUCTION DOCUMENTS AND LIMITED FIELD SURVEY. EXACT LOCATION OF EXISTING SANITARY/STORM LINES, WATER LINES, VENT LINES, VALVES AND ALL PIPE SIZES SHALL BE FIELD VERIFIED BEFORE STARTING INSTALLATION. FOR UNDERGROUND PIPING, CONTRACTOR SHALL FIELD VERIFY EXISTING PIPE LOCATIONS, CONNECTION LOCATION, SIZE, DIRECTION OF FLOW, AND DEPTH VIA PIPE LOCATING/TELEVISION EQUIPMENT AS REQUIRED PRIOR TO SAW CUTTING OF FLOOR OR BEGINNING WORK. CONTRACTOR'S BID SHALL INCLUDE SAW CUTTING, PATCHING TO MATCH EXISTING PIPING, LABOR, ETC. TO LOCATE, MAKE CONNECTIONS TO EXISTING UNDERFLOOR PIPING, OR CAP EXISTING UNDERFLOOR PIPING WITHIN 10 FEET OF LOCATION SHOWN ON DRAWINGS. IF LOCATION SHOWN FOR ANY CONNECTION DOES NOT EXIST OR IS NOT ACCESSIBLE, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IMMEDIATELY.
- 1.11 PLUMBING CONTRACTOR SHALL PROVIDE STACK TEST ON ALL ROUGH AND UNDERGROUND PLUMBING PER ILLINOIS PLUMBING CODE.
- 1.12 PLUMBING CONTRACTOR SHALL PROVIDE PRESSURE TEST ON ALL ABOVE GROUND SANITARY AND VENT PIPING PER ILLINOIS PLUMBING CODE.
- 1.13 PLUMBING CONTRACTOR SHALL PROVIDE 100LB AIR TEST OR WATER PRESSURE TEST ON ALL WATER PIPING AT TIME OF ROUGH INSPECTION PER ILLINOIS PLUMBING CODE.
- 1.14 PROVIDE WALL CLEANOUT AT THE BASE OF ALL WASTE AND STORM RISERS/STACKS PER ILLINOIS PLUMBING CODE. WALL CLEANOUTS SHALL BE PROVIDED AT ALL WASTE STACKS SERVING WATER CLOSETS INCLUDING SINGLE STORY STACKS. WALL CLEANOUTS SHALL BE PROVIDED AT THE END OF SANITARY RUN IN ALL TOILET ROOMS. ALL CLEANOUTS SHALL BE LOCATED WITH POINT OF PLUG/COVER ACCESS LOCATED WITHIN MENS TOILET ROOM WHERE APPLICABLE.
- 1.15 DOUBLE COMBINATION FITTINGS SHALL NOT BE PERMITTED IN ALL HORIZONTAL FLOW CONDITIONS. DOUBLE WYE FITTINGS MAY BE USED WHEN ONLY LONG EXTENSIONS ARE USED BETWEEN WYE AND 1/8 BEND AND A CLEANOUT IS ADDED AT WYE FITTING.
- 1.16 DEAD END PIPING BEYOND 24 INCHES IN WATER SUPPLY PIPING SHALL NOT BE PERMITTED. DEAD END PIPING BEYOND 10 FEET OF NEAREST VENTED SANITARY PIPING WILL NOT BE PERMITTED PER I.D.P.H. SECTION 890.1320.
- 1.17 THERMOSTATIC MIXING VALVES SERVING LAVATORIES AND SINKS USED FOR HAND WASHING SHALL BE SET TO A MAXIMUM 110 DEGREES.
- 1.18 ALL FLOOR DRAINS SHALL BE PROTECTED TO PREVENT THE LOSS OF THE TRAP SEAL BY EVAPORATION. APPROVED METHODS SHALL BE PER I.D.P.H. SECTION 890.420(f).

PIPE INSULATION

- 2.1 ALL DOMESTIC COLD WATER AND DOMESTIC HOT WATER SUPPLY/RETURN PIPING SHALL BE INSULATED WITH ASTM C547 FIBERGLASS PIPE INSULATION WITH ASTM C1136 VAPOR BARRIER JACKET COMPLETE WITH PVC FITTING COVERS. ALL COLD WATER PIPING SHALL BE INSULATED WITH 1" THICK INSULATION. ALL DOMESTIC HOT WATER AND RECIRC PIPING 1 1/4" AND SMALLER SHALL BE INSULATED WITH 1" INSULATION. ALL DOMESTIC HOT WATER AND RECIRC PIPING 1 1/2" AND LARGER SHALL BE INSULATED WITH 1 1/2" THICK INSULATION. INSULATE ALL DOMESTIC WATER SUPPLY PIPING TO THE FIXTURE CONNECTION. INSULATE ALL WATER SUPPLY PIPING IN CEILINGS, PLUMBING CHASES AND WALLS.

- 2.2 PATCH AND REFINISH ALL DAMAGED INSULATED SURFACES OF ALL EXISTING PLUMBING PIPING AND ASSOCIATED FITTINGS WHERE NEW CONNECTIONS ARE MADE INCLUDING BUT NOT LIMITED DOMESTIC COLD WATER, HOT WATER SUPPLY/RETURN AND WASTE.

PIPE HANGERS AND SUPPORTS

- 3.1 ALL SANITARY, VENT, STORM, DOMESTIC SUPPLY AND RETURN PIPING SHALL BE SUSPENDED WITH CLEVIS AND/OR TRAPEZE PIPE HANGERS. ALL HORIZONTAL STORM, DOMESTIC SUPPLY AND RETURN PIPING SHALL BE INSULATED AND REST ON SHEET METAL INSULATION SHIELDS. SEE DETAIL ON MECHANICAL/ELECTRICAL COORDINATION DRAWINGS FOR ADDITIONAL INFORMATION. SWIVEL JOINT HANGERS MAY BE USED ONLY ON WASTE AND VENT PIPING WHEN PIPING IS NOT INSULATED. HANGER MATERIAL SHALL BE OF COMPATIBLE MATERIAL TO PIPING MATERIAL TO PREVENT CORROSION. HANGERS SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS ONLY.

- 3.2 WHEN WATER SUPPLY PIPING IS INSTALLED IN PARALLEL AND SAME ELEVATION, PROVIDE TRAPEZE HANGERS. PIPING SHALL REST ON SHEET METAL SHIELD AT EACH TRAPEZE HANGER WITH ATTACHMENT TO STEEL CHANNEL EVERY 30 FEET UTILIZING A STRUT MOUNTED INSULATION COUPLING WITH STRUT CLAMP FOR USE WITH COPPER PIPING AND FIBERGLASS INSULATION.

- 3.3 VERTICAL ATTACHMENT TO METAL DECK AND WOOD TRUSS'S SHALL NOT BE PERMITTED. HORIZONTAL ATTACHMENT TO WOOD TRUSS SHALL BE MADE BY HORIZONTAL SUPPORT TO BOTTOM CORD OF TRUSS.

HANGER SPACING SHALL BE AS FOLLOWS:

PIPE MATERIAL	MAX HANGER SPACING	ROD DIAMETER
CAST IRON (ALL SIZES)	5 FEET	5/8"
CAST IRON (ALL SIZES) WITH 10 FOOT LENGTH OF PIPE	10 FEET	5/8"
COPPER TUBE, 1 INCH AND SMALLER	8 FEET	1/2"
COPPER TUBE, 1 1/4 INCH AND LARGER	10 FEET	1/2"

- PIPE AND VALVE IDENTIFICATION
- 4.1 PROVIDE PIPE LABELING IDENTIFICATION PER ASME A13.1. SEE DETAIL FOR ADDITIONAL INFORMATION.

VALVES

- 5.1 PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED ISOLATION VALVES PER I.D.P.H. SECTION 890.1190. VALVES SHALL BE INSTALLED TO ISOLATE ONE ROOM WITHOUT AFFECTING WATER SUPPLY TO ANY OTHER ROOM. ONLY EXCEPTION SHALL BE DIRECT BACK-TO-BACK FIXTURES SERVING PUBLIC SPACES.
- 5.2 INSTALL BALL VALVES ON PIPING 3" AND SMALLER AND OS&Y GATE VALVES ON PIPING 4" AND LARGER IN EACH RISER OR BRANCH TAKEOFF FROM MAINS, RISERS AND AS INDICATED ON DRAWINGS.
- 5.3 BALL VALVES SHALL BE MILWAUKEE, NIBCO, STOCKHAM, APOLLO, KITZ, WATTS, OR JOMAR; LEAD FREE NSF-61 CERTIFIED, WITH BRONZE TWO PIECE BODY, STAINLESS STEEL BALL, TEFLON SEATS AND STUFFING BOX RING, LEVER HANDLE, SOLDER ENDS, FULL PORT AND CONFORM TO MSS SP-110. WHEN PRESS FITTINGS ARE USED, VIEGA OR NIBCO SHALL BE AN ACCEPTABLE MANUFACTURER OF BALL VALVES.
- 5.4 CHECK VALVES SHALL BE MILWAUKEE, NIBCO, STOCKHAM, APOLLO, KITZ, WATTS, OR JOMAR; LEAD FREE NSF-61 CERTIFIED WITH BRONZE BODY, BRONZE HORIZONTAL SWING DISC AND CONFORM TO MSS SP-80.
- 5.5 STRAINERS SHALL BE WATTS, KECKLEY, LESLIE, WILKINS, KITZ, OR NIBCO; LEAD FREE NSF-61 CERTIFIED, BRONZE BODY, WITH 1/32 INCH STAINLESS STEEL PERFORATED SCREEN AND 3/4" BLOW DOWN VALVE.
- 5.6 CIRCUIT SETTER SHALL BE BELL & GOSSETT, NIBCO, WATTS, ARMSTRONG, ILLINOIS, HCI, NEXUS; LEAD FREE NSF-61 CERTIFIED, CALIBRATED BALL TYPE BALANCING VALVE WITH PRECISION MACHINED ORIFICE, READOUT VALVES EQUIPPED WITH INTEGRAL CHECK VALVES AND GASKETED CAPS, CALIBRATED, NAMEPLATE AND INDICATING POINTER.
- 5.7 INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.
- 5.8 INSTALL VALVES WITH CLEARANCE FOR INSTALLATION OF INSULATION AND ALLOWING ACCESS.
- 5.9 PROVIDE ACCESS TO ALL VALVES AND SYSTEM COMPONENTS REQUIRING ACCESS. ALL PIPING ACCESSORIES AND EQUIPMENT SUCH AS ISOLATION VALVES AND IN-LINE PUMPS SHALL BE INSTALLED AT A REASONABLE HEIGHT AND POSITION IN ORDER TO FACILITATE MAINTENANCE.

WATER SHUT-DOWN

- 6.1 CONTRACTOR SHALL PROVIDE ALL MEANS TO SHUT-DOWN EXISTING PIPING SYSTEMS WHERE REQUIRED TO COMPLETE WORK UNDER THIS CONTRACT. CONTRACTOR SHALL PROVIDE ALL NECESSARY VALVES TO ISOLATE RENOVATED SECTIONS OF THE BUILDING WITHOUT DISTURBING SECTIONS OF THE BUILDING NOT UNDER RENOVATION. CONTRACTOR SHALL PROVIDE ALL MEANS TO DRAIN WATER SUPPLY PIPING WHERE REQUIRED TO MODIFY PIPING CONFIGURATION OR MAKE NEW CONNECTIONS TO EXISTING PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WATER DAMAGE CAUSED BY DRAINING OF WATER SUPPLY PIPING. UPON REACTIVATION OF WATER IN PIPING, CONTRACTOR SHALL OPERATE ALL ASSOCIATED FAUCETS, FLUSH VALVES, HOSE VALVES, PLUMBING FIXTURES AND REMOVE ALL REMAINING AIR IN THE SYSTEM.

- 6.2 ALL TIMES OF WATER SHUT-DOWN ARE SUBJECT TO OWNERS DISCRETION AND MAY HAVE RESTRICTIONS BASED ON SCHEDULED EVENTS AT FACILITY. ALL ASPECTS OF WATER SHUT-DOWN SHALL BE COORDINATED WITH OWNER.

FIRE STOP SYSTEMS

- 7.1 PROVIDE FIRE RATED SEALANT AROUND ALL NEW PENETRATIONS FOR PIPING, CONDUIT, ETC. AT WALLS, FLOORS AND CEILINGS. GENERAL PURPOSE FIRE STOPPING SEALANT SHALL BE DOW CORNING, NELSON OR 3M COMPANY; WATER BASED, NON SLUMPING, PREMIXED SEALANT WITH INTUMESCENT PROPERTIES, RATED FOR 3 HOURS PER ASTM E814, NFPA AND UL-1479. FILL ALL VOIDS AROUND ALL PIPING PENETRATIONS THROUGH WALLS AND CEILINGS WITH A MINIMUM 1 HOUR FIRE RATING. PROVIDE PVC COLLAR ASSEMBLY AT ALL PVC PIPING PENETRATIONS THROUGH FIRE WALLS, FLOORS OR CEILING WHERE REQUIRED BY LOCAL FIRE DISTRICT.

PIPE ROUTING AND REPLACEMENT

- 8.1 PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR DISMANTLING THE EXISTING SUSPENDED ACOUSTICAL CEILING TILE SYSTEM AND REINSTALLING CEILING AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF NEW PIPING.
  - 8.2 PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE CAUSED TO SUSPENDED CEILING MATERIALS BY THE DISMANTLING, STORAGE AND REINSTALLATION OF CEILING MATERIALS.
  - 8.3 PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL PLUMBING FIXTURES EFFECTED BY THE REMOVAL OR ABANDONMENT OF THE EXISTING WATER SUPPLY PIPING IS STILL FUNCTIONAL AT THE COMPLETION OF THE PROJECT.
  - 8.4 PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING THROUGH WALLS, PIPE HANGERS AND MODIFICATIONS TO STRUCTURE FOR THE INSTALLATION OF PIPE HANGERS. CONTRACTOR SHALL BE REQUIRED TO PROVIDE FLOOR MOUNTED POSTS WITH STRUCTURAL BRIDGING BELOW LARGE DUCTWORK WHERE TYPICAL TOP OF DECK MOUNTED PIPE HANGERS ARE NOT CAPABLE OF BEING INSTALLED.
  - 8.5 PIPE SIZES INDICATED ON DRAWINGS ARE MINIMUMS. CONTRACTOR SHALL MATCH PIPE SIZE WHEN CONNECTING TO EXISTING PIPING LARGER THAN SIZED LISTED.
  - 8.6 NEW PIPING SHALL NOT BE PERMITTED OVER ANY ELECTRICAL PANELS OR EQUIPMENT.
  - 8.7 NEW PIPE ROUTING SHALL NOT INTERFERE WITH NORMAL MAINTENANCE OPERATION OF EXISTING EQUIPMENT, ACCESS PANELS, DUCTWORK ACCESS PANELS, DUCTWORK ACCESSORIES, AND ALL HVAC AND ELECTRICAL EQUIPMENT.
  - 8.8 ALL PIPING, FITTINGS AND JOINTS SHALL COMPLY WITH THE STATE AND LOCAL AMENDMENTS AND THE AUTHORITY HAVING JURISDICTION. MATERIALS LISTED IN THE SPECIFICATION THAT DO NOT COMPLY WITH THESE AMENDMENTS SHALL NOT BE USED IN THE BIDDING PROCESS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE ADOPTED AMENDMENTS.
  - 8.9 WATER SUPPLY PIPING SIZES SHOWN ON DRAWING ARE BASED ON COPPER PIPING. SANITARY, VENT AND STORM PIPING SIZES SHOWN ARE BASED ON CAST IRON PIPING. INNER DIAMETERS SHALL BE REVIEWED WITH IDPH STATE PLUMBING INSPECTOR PRIOR TO INSTALLATION AND SHALL BE OF SUFFICIENT SIZE TO PROVIDE ADEQUATE FLOW AT MINIMAL PRESSURE DROP TO INSURE PLUMBING FIXTURES OPERATE TO OWNER'S SATISFACTION.
- SHOP DRAWINGS, SUBMITTALS AND CLOSE OUT DOCUMENTS
- 9.1 CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES IN PDF FORMAT SHOP DRAWINGS OF ALL PIPING, VALVES, PIPE HANGERS, PIPE INSULATION, MISC DEVICES, PUMPS, MIXING VALVES, PLUMBING FIXTURES, ACCESS PANELS, EQUIPMENT, TO ENGINEER FOR APPROVAL PRIOR TO ORDERING ANY ITEMS OR FABRICATING ANY DUCTWORK. SUBMITTALS SHALL BE RETURNED WITHIN TEN BUSINESS DAYS.
  - 9.2 CONTRACTOR SHALL PROVIDE OWNER TRAINING ON ALL EQUIPMENT AND BUILDING SYSTEMS PROVIDED/ALTERED BY HIS WORK. TRAINING SHALL BE ACCOMPLISHED DURING TIME DEDICATED FOR THAT PURPOSE, NOT IN CONJUNCTION WITH SERVICE WORK.
  - 9.3 AT COMPLETION OF PROJECT, CONTRACTOR SHALL SUBMIT PDF FORMAT OF OPERATION AND MAINTENANCE MANUALS FOR ALL WORK PROVIDED BY HIM ON PROJECT. MANUALS SHALL BE CLEARLY ORGANIZED AND CONTAIN COPIES OF APPROVED EQUIPMENT, COMPONENT BREAK-DOWN AND PARTS LISTS, MAINTENANCE/CLEANING AND TROUBLESHOOTING MANUALS, SERVICE CONTACTS, CONTRACTOR AND MANUFACTURER WARRANTIES, AND "AS BUILT" FLOOR PLANS INDICATING ALL APPROVED DEVIATIONS AND REVISIONS TO BIDDING DOCUMENTS.

**BIDDING NOTE**  
 SEE DRAWING ME1.00 FOR GENERAL NOTES AND ADDITIONAL DETAILS APPLICABLE TO THIS TRADE'S WORK.

KEY PLAN:

SHEET STATUS: 9.19.23

**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:

**PLUMBING GENERAL NOTES AND ABBREVIATIONS**

SHEET NUMBER:

**P5.00**



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE**  
**UNIVERSITY CENTER AT MCC**

222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

DRAINAGE FIXTURE SCHEDULE				
PLUMBING FIXTURE TAG	TYPE	MANUFACTURER AND MODEL	DESCRIPTION	OTHER ACCEPTABLE MANUFACTURERS
FD-1	FLOOR DRAIN	MIFAB, MODEL F1100	ANSI A112.21.1; LACQUERED CAST IRON BODY WITH DOUBLE DRAINAGE FLANGE, WEEPHOLES, AND ROUND ADJUSTABLE NICKEL BRONZE STRAINER, SQUARE STRAINER IN FLOORS WITH CERAMIC TILE.	J.R. SMITH, WADE, MIFAB, JOSAM, WATTS
FD-2	FLOOR DRAIN	MIFAB, MODEL FS1730-150	ANSI A112.21.1; 12" SQUARE, 8" DEEP, PORCELAIN ENAMEL CAST IRON FLOOR SINK WITH STAINLESS STEEL DOME STRAINER AND HALF GRATE.	J.R. SMITH, WADE, MIFAB, JOSAM, WATTS
FCO	FLOOR CLEANOUT	MIFAB, MODEL C1224 MIFAB, MODEL C1226	ANSI A112.21.1; LACQUERED CAST IRON BODY WITH DOUBLE DRAINAGE FLANGE. INTERIOR FINISHED FLOOR AREAS (FCO) LACQUERED CAST IRON BODY, ABS GASKETED PLUG AND ADJUSTABLE ROUND SCORiated COVER. PROVIDE CARPET MARKER AT LOCATION WHERE NOTED.	J.R. SMITH, WADE, MIFAB, JOSAM, WATTS
WCO	WALL CLEANOUT	MIFAB, MODEL 1460-RD-3	INTERIOR FINISHED WALL AREAS: LINE TYPE WITH LACQUERED CAST IRON BODY AND ROUND BRASS GASKETED PLUG AND ROUND STAINLESS STEEL ACCESS COVER SECURED WITH MACHINE SCREW.	J.R. SMITH, WADE, ZURN, JOSAM, WATTS

DOMESTIC WATER HEATER SCHEDULE											
EQUIPMENT TAG	LOCATION	MANUFACTURER	MODEL	TYPE	INPUT	TANK VOLUME (GALLONS)	GPH 90° TEMP. RISE	ELECTRICAL			NOTES
								AMP.	PHASE	VOLT	
DWH-1	JAN CLOSET	A.O. SMITH	GCV-40	GAS FIRED	40,000 BTUH	40	--	--	1	120	1,2

NOTES: 1. OTHER ACCEPTABLE MANUFACTURERS: SEE SPECIFICATIONS.  
 2. PRESSURE AND TEMPERATURE RELIEF VALVE.

PLUMBING PUMP SCHEDULE													
EQUIPMENT TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	TYPE	GPM	HEAD (FT.)	RPM	MOTOR			NOTES	
									WATTS	PHASE	VOLT		
DWP-1	JAN CLOSET	DOMESTIC HOT WATER RECIRCULATION (120 LOOP)	BELL & GOSSETT	NBF-12	INLINE, ALL BRONZE	2.0	10	1725	55	1	115	1,2	

NOTES: 1. OTHER ACCEPTABLE MANUFACTURERS: SEE SPECIFICATIONS.  
 2. PROVIDE 120V, AQUASTAT TO CONTROL PUMP ON/OFF.

DOMESTIC WATER EXPANSION TANK SCHEDULE									
EQUIPMENT TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	TYPE	CAPACITY	CONNECTION SIZE (IN)	NOTES	
DWET-1	JAN CLOSET	DOMESTIC WATER SYSTEM	WESSELS	T-5	BLADDER	1.3 GAL. ACCEPT. 2.1 GAL. TANK	3/4"	1,2,3	

NOTES: 1. OTHER ACCEPTABLE MANUFACTURERS: SEE SPECIFICATIONS.  
 2. TANK TO BE SPECIFICALLY FOR USE IN POTABLE WATER SYSTEMS, NSF/ANSI STANDARD 61 CERTIFIED.  
 3. BLADDER SHALL BE MADE OF HEAVY DUTY BUTYL RUBBER.

PLUMBING FIXTURE SCHEDULE						
PLUMBING FIXTURE TAG	TYPE	MANUFACTURER AND MODEL	DESCRIPTION	OTHER ACCEPTABLE MANUFACTURERS	NOTES	
WC-1	WATER CLOSET	BOWL: KOHLER KINGSTON K-4325 FLUSH VALVE: SLOAN OPTIMA PLUS G2 8111-1.28 SEAT: BEMIS 2155-SSCT CARRIER: ZURN EZCARRY Z1201	WALL HUNG, SIPHON JET, 1.28 GALLON FLUSH, WHITE VITREOUS CHINA BOWL WITH ELONGATED BOWL & 1 1/2" TOP SPUD. FLUSH VALVE: EXPOSED CHROME PLATED, BATTERY POWERED SENSOR ACTIVATED, 1.28 GALLONS PER FLUSH, INTEGRAL SCREWDRIVER STOP AND VACUUM BREAKER. SEAT: WHITE, ELONGATED, OPEN FRONT, ANTI-MICROBACTERIAL. CARRIER: ADJUSTABLE HORIZONTAL CONFIGURATION, 500 LB WEIGHT RATING. FIXTURE SHALL BE WATERSENSE CERTIFIED.	BOWL: NONE. FLUSH VALVE: NONE. SEAT: CHURCH, OLSONITE & SPERZAL CARRIER: JR. SMITH, WADE, MIFAB	1,2,9,10	
WC-2	WATER CLOSET	SAME AS WC-1	SAME AS WC-1, (INSTALLED AT ADA HEIGHT.)	SAME AS WC-1	1,9,10	
U-1	URINAL	BOWL: KOHLER KINGSTON K-4991-ET FLUSH VALVE: SLOAN OPTIMA G2 8186-0.5 CARRIER: ZURN MODEL Z1221	CHINA: WALL MOUNTED, WHITE VITREOUS CHINA WITH 3/4" TOP SPUD. CHINA SHALL BE UNIVERSAL FLOW COMPATIBLE AND OPERATE IN THE RANGE OF 0.125 TO 1.0 GPF. FLUSH VALVE: EXPOSED CHROME PLATED, BATTERY OPERATED SENSOR, (0.5) GALLONS PER FLUSH, INTEGRAL SCREWDRIVER STOP AND VACUUM BREAKER. CARRIER: LACQUERED STEEL FRAME WITH LEGS, FEET FOR FLOOR ATTACHMENT, TOP AND BOTTOM ADJUSTABLE UNIVERSAL SUPPORT PLATES.	BOWL: NONE. FLUSH VALVE: NONE. CARRIER: JR. SMITH, WADE, MIFAB	1,2,9,10	
U-2	URINAL	SAME AS U-1	SAME AS U-1, (INSTALLED AT ADA HEIGHT.)	SAME AS U-1	1,9,10	
L-1	LAVATORY	BASIN: BOWL INTEGRAL TO COUNTER, SPECIFIED ELSEWHERE TRIM: SLOAN OPTIMA MODEL EBF-650	SEE ARCHITECTURAL DRAWINGS FOR LAVATORY BOWL SPEC. FAUCET: DECK MOUNTED CHROME PLATED, BATTERY OPERATED SENSOR, 4" CENTERS WITH 0.5 GPM VANDAL RESISTANT AERATOR, 3-YEAR MANUF. WARRANTY ON ELEC. FAUCET. FIXTURE SHALL BE WATERSENSE CERTIFIED.	BOWL: NONE. FAUCET: NONE.	1,2,3,4,5,6,7,9	
L-2	LAVATORY	BASIN: KOHLER KINGSTON K-2005 TRIM: SLOAN OPTIMA MODEL EBF-650 CARRIER: ZURN MODEL Z1231	WHITE VITREOUS CHINA WALL HUNG LAVATORY, 21x18 MINIMUM, 5" HIGH BACK, DRILLINGS ON 4" CENTERS, CONCEALED ARM SUPPORT, RECTANGULAR BASIN WITH SPLASH LIP AND FRONT OVERFLOW. FAUCET: DECK MOUNTED CHROME PLATED, BATTERY OPERATED SENSOR, 4" CENTERS WITH 0.5 GPM VANDAL RESISTANT AERATOR, CARRIER: LACQUERED STEEL FRAME WITH LEGS, FEET FOR FLOOR ATTACHMENT, CONCEALED ARMS. 3-YEAR MANUF. WARRANTY ON ELEC. FAUCET. FIXTURE SHALL BE WATERSENSE CERTIFIED.	BOWL: NONE. FAUCET: NONE. CARRIER: JR. SMITH, WADE, MIFAB, JOSAM, WATTS	1,2,3,4,5,6,7,9,10	
S-1	SINK	BASIN: ELKAY, MODEL LUSTERTONE ELUHAD211555 TRIM: MOEN COMMERCIAL MODEL 8225-SMF15	ASME A112.19.3; 23.5"L x 18.25"W x 5.5"D INCH OUTSIDE DIMENSIONS, 18 GAUGE, TYPE 304 STAINLESS STEEL, UNDERMOUNT, FAUCET SHALL BE CHROME PLATED BRASS SUPPLY WITH 8" SWING SPOUT, WATER ECONOMY AERATOR WITH MAXIMUM 1.5 GPM FLOW RATE, WITH INDEXED WRISTBLADE LEVER HANDLES ON 8" CENTERS.	BASIN: JUST TRIM: T&S BRASS, ZURN, CHICAGO FAUCET	1,2,3,5,7,8,9,11	
S-2	SINK	BASIN: ELKAY, MODEL LUSTERTONE ELUHAD211555 TRIM: MOEN COMMERCIAL MODEL 8225-SMF15	ASME A112.19.3; 23.5"L x 18.25"W x 5.5"D INCH OUTSIDE DIMENSIONS, 18 GAUGE, TYPE 304 STAINLESS STEEL, UNDERMOUNT, FAUCET SHALL BE CHROME PLATED BRASS SUPPLY WITH 8" SWING SPOUT, WATER ECONOMY AERATOR WITH MAXIMUM 1.5 GPM FLOW RATE, WITH INDEXED WRISTBLADE LEVER HANDLES ON 8" CENTERS.	BASIN: JUST TRIM: T&S BRASS, ZURN, CHICAGO FAUCET	1,2,3,5,7,8,9,11	
S-3	SINK	BASIN: ELKAY, MODEL LUSTERTONE ELUHAD211555 TRIM: MOEN COMMERCIAL MODEL 8225-SMF15	ASME A112.19.3; 23.5"L x 18.25"W x 5.5"D INCH OUTSIDE DIMENSIONS, 18 GAUGE, TYPE 304 STAINLESS STEEL, UNDERMOUNT, FAUCET SHALL BE CHROME PLATED BRASS SUPPLY WITH 8" SWING SPOUT, WATER ECONOMY AERATOR WITH MAXIMUM 1.5 GPM FLOW RATE, WITH INDEXED WRISTBLADE LEVER HANDLES ON 8" CENTERS.	BASIN: JUST TRIM: T&S BRASS, ZURN, CHICAGO FAUCET	1,2,3,5,7,8,9,11	
EW-1	ELECTRIC WATER COOLER	FOUNTAIN: ELKAY, MODEL LZSBWSSP	ARI 1010; SINGLE STATION WALL MOUNTED ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION, WATER FILTER, STAINLESS STEEL BODY, ELEVATED ANTI-SQUIRT BUBBLER, LOWER STAINLESS STEEL SHROUD.	NONE.	1,2,3,5	
EW-2	ELECTRIC WATER COOLER	FOUNTAIN: ELKAY, MODEL LZSTL&WSSP	ARI 1010; TWO STATION WALL MOUNTED ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION, WATER FILTER, STAINLESS STEEL BODY, ELEVATED ANTI-SQUIRT BUBBLER, LOWER STAINLESS STEEL SHROUD.	NONE.	1,2,3,5	
TMV-1	THERMOSTATIC MIXING VALVE	LEONARD MODLE 170LF	ASSE 1070; CAST BRASS BODY WITH ROUGH BRONZE FINISH, LOCKING TEMPERATURE REGULATOR, WITH INTEGRAL CHECK VALVES AND INLINE SCREENS ON BOTH INLETS.	POWERS, WATTS, ZURN.	--	
BPZ-1	BACKFLOW PREVENTER	WATTS LF909 (OSY)(S) SERIES	2 1/2" AND LARGER - ASSE 1013; REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH STRAINER AND OS&Y GATE VALVES, BFP SHALL BE LEAD FREE AND HAVE PRESSURE DIFFERENTIAL RELIEF VALVE LOCATED IN A ZONE BETWEEN TWO POSITIVE SEATING CHECK VALVES. SIZE AS INDICATED ON DRAWING.	ZURN- WILKINS, APOLLO	--	
WH-1	WALL HYDRANT	WOODFORD MODEL B65	ASSE 1019; NON-FREEZE, HEAVY DUTY CHROME LOCKABLE RECESSED BOX, 3/4" HOSE THREAD SPOUT, LOCKSHIELD AND REMOVABLE KEY, AND INTEGRAL SELF-DRAINING VACUUM BREAKER.	JR SMITH, WADE, MIFAB, ZURN	--	

NOTES: 1. MOUNTING HEIGHTS SHALL BE COORDINATED AND VERIFIED WITH ARCHITECTURAL DRAWINGS. ROUGH-IN HEIGHTS SHALL BE COORDINATED WITH FIXTURE MOUNTING HEIGHTS. ROUGH-IN HEIGHTS SHALL BE ADJUSTED ACCORDINGLY TO ACCOMMODATE FIXTURE HEIGHT AND FIXTURE CHARACTERISTICS.  
 2. FIXTURE SHALL BE ADA COMPLIANT AND MOUNTED AT HANDICAP HEIGHT. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.  
 3. PROVIDE CHROME PLATED 17 GAGE BRASS P-TRAP AND ARM ESCUTCHEON.  
 4. PROVIDE CHROME PERFORATED OPEN STRAINER.  
 5. PROVIDE (BRASSCRAFT MODEL KTSCR19XC) CHROME QUARTER-TURN ANGLE STOP VALVES WITH LOOSE KEY, CHROME ESCUTCHEONS, CHROME PLATED RIGID SUPPLIES OR APPROVED EQUAL.  
 6. INSULATE P-TRAP, DRAIN AND SUPPLY PIPING WITH TRUEBRO OR PLUMBEREX MODEL X4333 INSULATION OR APPROVED EQUAL. MATERIAL SHALL BE MOLDED (PVC) POLYVINYL CHLORIDE BASED, FOAM BASED MATERIAL WILL NOT BE PERMITTED. WHITE IN COLOR.  
 7. PROVIDE ASSE 1070 POINT OF USE THERMOSTATIC MIXING VALVE TYPE TMV-1 WITH CHROME RIGID SUPPLIES.  
 8. PROVIDE ELKAY MODEL LK3S STRAINER BASKET  
 9. CAULK FIXTURE TO FLOOR, WALL OR COUNTER TOP WITH MATCHING COLOR CAULK.  
 10. ELECTRONIC FLUSH VALVES AND FAUCETS SHALL HAVE A MINIMUM 3-YEAR WARRANTY.  
 11. FAUCETS ON 8" CENTERS SHALL HAVE INTERCONNECTING COPPER TUBING.

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION	DATE

SHEET TITLE:  
**PLUMBING SCHEDULES**

SHEET NUMBER:  
**P6.00**







ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**DRAWING NOTES**

- EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT EXISTING ELECTRICAL FEED TO MAINTAIN PROPER OPERATION OF EQUIPMENT. AT THE SOURCE OF THE FEEDER, PROVIDE NEW JUNCTION BOX AND SPLICE CONDUCTORS OF MATCHING GAUGE FOR EXTENSION TO NEW PANEL "FP-3". CONDUCTORS SHALL BE MINIMUM SIZE OF #10AWG. INFORM ARCHITECT/ENGINEER IF OTHERWISE. TERMINATE BRANCH CIRCUITS TO NEW CIRCUIT BREAKERS OF SAME SIZE AS PREVIOUSLY INSTALLED. FIELD VERIFY EXACT REQUIREMENTS.
- DISCONNECT AND PULL BACK EXISTING EXTERIOR LIGHTING CIRCUITS TO REMAIN. PROTECT DURING CONSTRUCTION FOR EXTENSION TO NEW PANEL "LP-1". PROVIDE NEW JUNCTION BOX AND SPLICE CONDUCTORS OF MATCHING GAUGE TO MAINTAIN FUNCTIONALITY OF EXISTING EXTERIOR LIGHTING. FIELD VERIFY EXACT REQUIREMENTS.



**1 ELECTRICAL DEMOLITION PLAN**  
 1/8" = 1'-0"

**GENERAL DEMOLITION NOTE:**  
 CAREFULLY DISCONNECT, REMOVE AND TURN OVER REMOVED LOW VOLTAGE DEVICE/EQUIPMENT INCLUDING, BUT NOT LIMITED TO, WIRELESS ACCESS POINTS, SECURITY CAMERAS, SPECIALTY LIGHTING, AUDIO/VIDEO EQUIPMENT, AUDIO/VIDEO RACK, CARD READERS, ETC. TO OWNER'S REPRESENTATIVE.

**MCHENRY COUNTY COLLEGE**  
**UNIVERSITY CENTER AT MCC**  
 222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**ELECTRICAL DEMOLITION PLAN**

SHEET NUMBER:  
**ED1.10**



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 CHICAGO, IL 60661  
 P: 312.496.0000

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 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

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 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**ELECTRICAL PLAN**

SHEET NUMBER:  
**E1.10**

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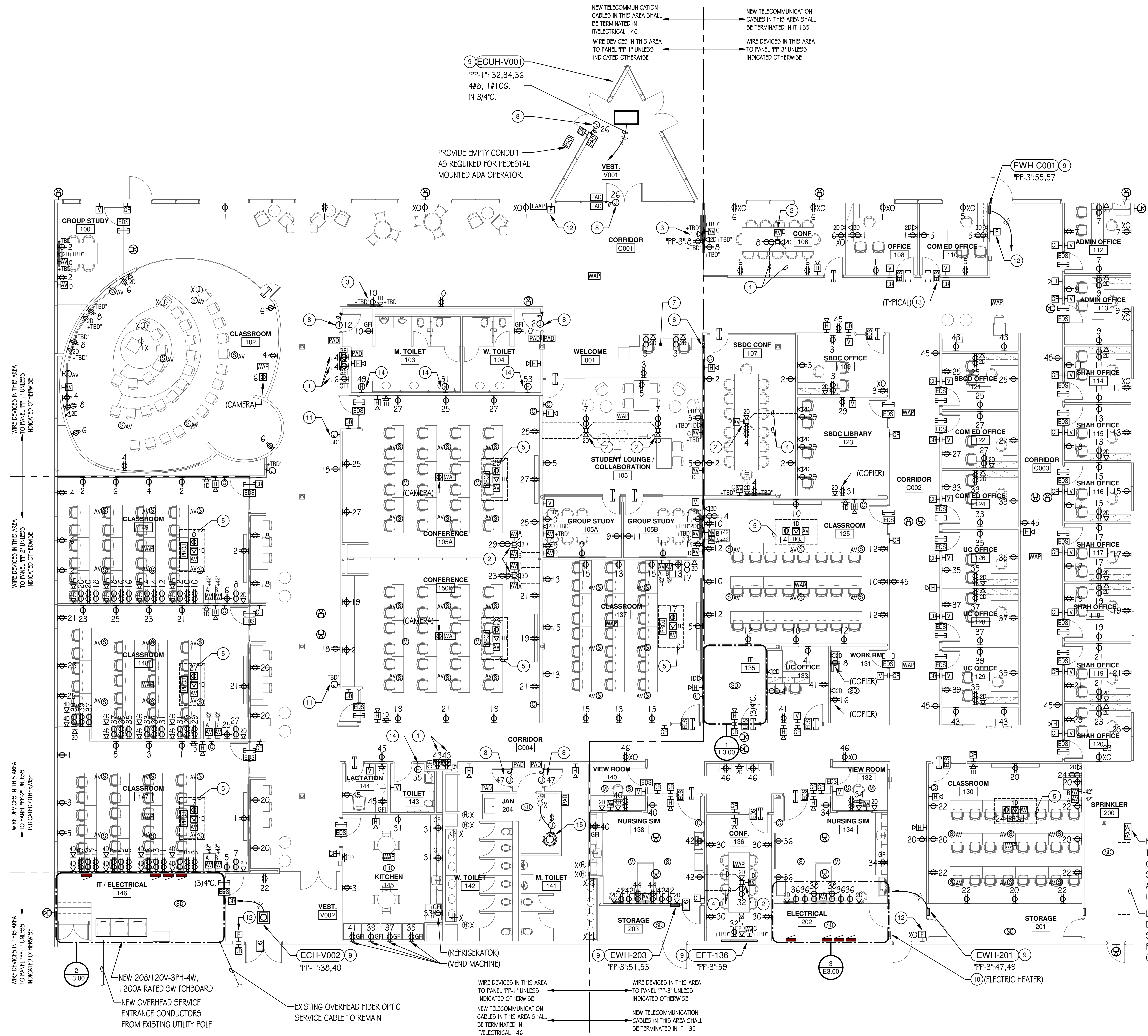
**DRAWING NOTES**

- INSTALL RECEPTACLE FOR ELECTRIC WATER COOLER (EWC) WITHIN EWC CABINET AS RECOMMENDED BY MANUFACTURER.
- PROVIDE FOUR-COMPARTMENT, ON-GRADE, CAST IRON FLOOR BOX AS MANUFACTURED BY LEGRAND WIREMOLD RFB4-CI SERIES OR EQUAL, WITH FLANGED COVER ASSEMBLY #FPBC. COVER FINISH SHALL BE SELECTED BY THE ARCHITECT. PROVIDE ALL INTERNAL BRACKETS AS REQUIRED TO ACCOMMODATE BOTH POWER AND LOW VOLTAGE. ROUTE (1) 3/4" CONDUIT FOR POWER AND (2) 1 1/4" CONDUIT FOR LOW VOLTAGE. VERIFY FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
- FOR DISPLAY MONITOR. FIELD VERIFY EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- ROUTE IN SLAB 3/4" CONDUIT FOR POWER AND (2) 1 1/4" CONDUITS FOR LOW VOLTAGE TO NEAREST WALL FOR TRANSITION UP ACCESSIBLE CEILING SPACE. CONTRACTOR SHALL CHANNEL, PATCH AND REPAIR FLOOR TO MATCH SURROUNDING SURFACE. FIELD VERIFY EXACT REQUIREMENTS.
- DEVICES SHOWN SHALL BE LOCATED INSIDE CEILING MOUNTED ENCLOSURE / PROJECTOR MOUNT. REFER TO ELECTRICAL DETAILS SHEET FOR ADDITIONAL INFORMATION.
- PROVIDE NEW CONDUITS FOR FEED TO DEVICES IN MILLWORK. INSTALL (1) 3/4" CONDUIT FOR POWER AND (2) 1" EMPTY CONDUITS STUBBED TO ACCESSIBLE CEILING SPACE FOR LOW VOLTAGE CABLES. FIELD VERIFY EXACT REQUIREMENTS.
- DEVICES SHOWN SHALL BE RECESSED IN MILLWORK KNEEWALL. PROVIDE MINIMUM 3/4" CONDUITS FOR POWER, MINIMUM 1" CONDUITS FOR LOW VOLTAGE. CONDUITS SHALL BE ROUTED INSIDE UTILITY CHASE. REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION. COORDINATE INSTALLATION WITH MILLWORK CONTRACTOR AND FIELD VERIFY FINAL DEVICE LOCATION PRIOR TO ROUGH-IN.
- PROVIDE 120VAC CONNECTION AND JUNCTION BOXES FOR DOOR ACTUATOR, PUSH PADS AND ASSOCIATED WIRING PER MANUFACTURER'S INSTRUCTIONS FOR A COMPLETE AND OPERABLE SYSTEM. FIELD VERIFY FINAL LOCATION PRIOR TO ROUGH-IN.
- DISCONNECT SWITCH FURNISHED WITH EQUIPMENT, WIRED BY ELECTRICAL CONTRACTOR.
- EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT EXISTING ELECTRICAL FEED TO MAINTAIN PROPER OPERATION OF EQUIPMENT. AT THE SOURCE OF THE FEEDER, PROVIDE NEW JUNCTION BOX AND SPLICE CONDUCTORS OF MATCHING GAUGE FOR EXTENSION TO NEW PANEL "PP-3". CONDUCTORS SHALL BE MINIMUM SIZE OF #10AWG. INFORM ARCHITECT/ENGINEER IF OTHERWISE. TERMINATE BRANCH CIRCUITS TO NEW CIRCUIT BREAKERS OF SAME SIZE AS PREVIOUSLY INSTALLED. FIELD VERIFY EXACT REQUIREMENTS.
- FOR FUTURE ROOM SCHEDULER DEVICE. FIELD VERIFY EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE WITH PROTECTIVE CLEAR PLASTIC ENCLOSURE, HINGED AT THE TOP TO PERMIT LIFTING FOR ACCESS TO INITIATE ALARM. LIFTING THE COVER ACTUATES AN INTEGRAL BATTERY POWERED AUDIBLE HORN INTENDED TO DISCOURAGE FALSE-ALARM OPERATION. SAFETY TECHNOLOGY INTERNATIONAL, INC. #STI-1100 OR EQUAL.
- PROVIDE 120VAC CONNECTION TO LOW VOLTAGE TRANSFORMER FOR ELECTRIC STRIKE TO NEAREST RECEPTACLE BRANCH CIRCUIT. INSTALL AND WIRE PER DOOR MANUFACTURER'S INSTRUCTIONS FOR A COMPLETE AND OPERABLE SYSTEM.
- PROVIDE 120VAC, 20AMP, TOGGLE DISCONNECT SWITCH LOCATED IN THE ACCESSIBLE CEILING SPACE, WITHIN SIGHT OF THE HAND DRYER PER NEC ARTICLE 422.31(C).
- WIRE NEW DOMESTIC WATER CIRCULATION PUMP TO EXISTING RECEPTACLE BRANCH CIRCUIT CURRENTLY SERVING THIS AREA. FIELD VERIFY EXACT REQUIREMENTS.

**GENERAL FLOOR BOX NOTE:**  
 CONTRACTOR SHALL CONFIRM EXACT FLOOR BOX LOCATION WITH THE ARCHITECT AND LOCATE/MARK ANY EXISTING UTILITIES IN AREA BY EMPLOYING SERVICE TO SCAN THE FLOOR SLAB. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGES TO EXISTING UTILITIES DUE TO SAWCUTTING.

**GENERAL NOTE:**  
 UNLESS INDICATED OTHERWISE, CONTRACTOR SHALL CHANNEL EXISTING DRYWALL AS REQUIRED TO CONCEAL CONDUITS AND RECESS MOUNTED JUNCTION BOXES FOR ELECTRICAL DEVICES. COORDINATE WALL PATCHING REQUIREMENTS WITH GENERAL TRADES CONTRACTOR. WHERE RECESS MOUNTING IS NOT FEASIBLE, INFORM ARCHITECT AND/OR GENERAL CONTRACTOR PRIOR TO INSTALLATION.

**THERMOSTAT NOTE:**  
 REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF THERMOSTAT/CARBON DIOXIDE DETECTORS. PROVIDE SINGLE GANG BACKBOX AND EMPTY 3/4" CONDUIT WITH PULL STRING STUBBED INTO AN ACCESSIBLE CEILING SPACE FOR INSTALLATION OF THERMOSTAT/CARBON DIOXIDE DETECTORS.



**1 ELECTRICAL PLAN**  
 1/8" = 1'-0"



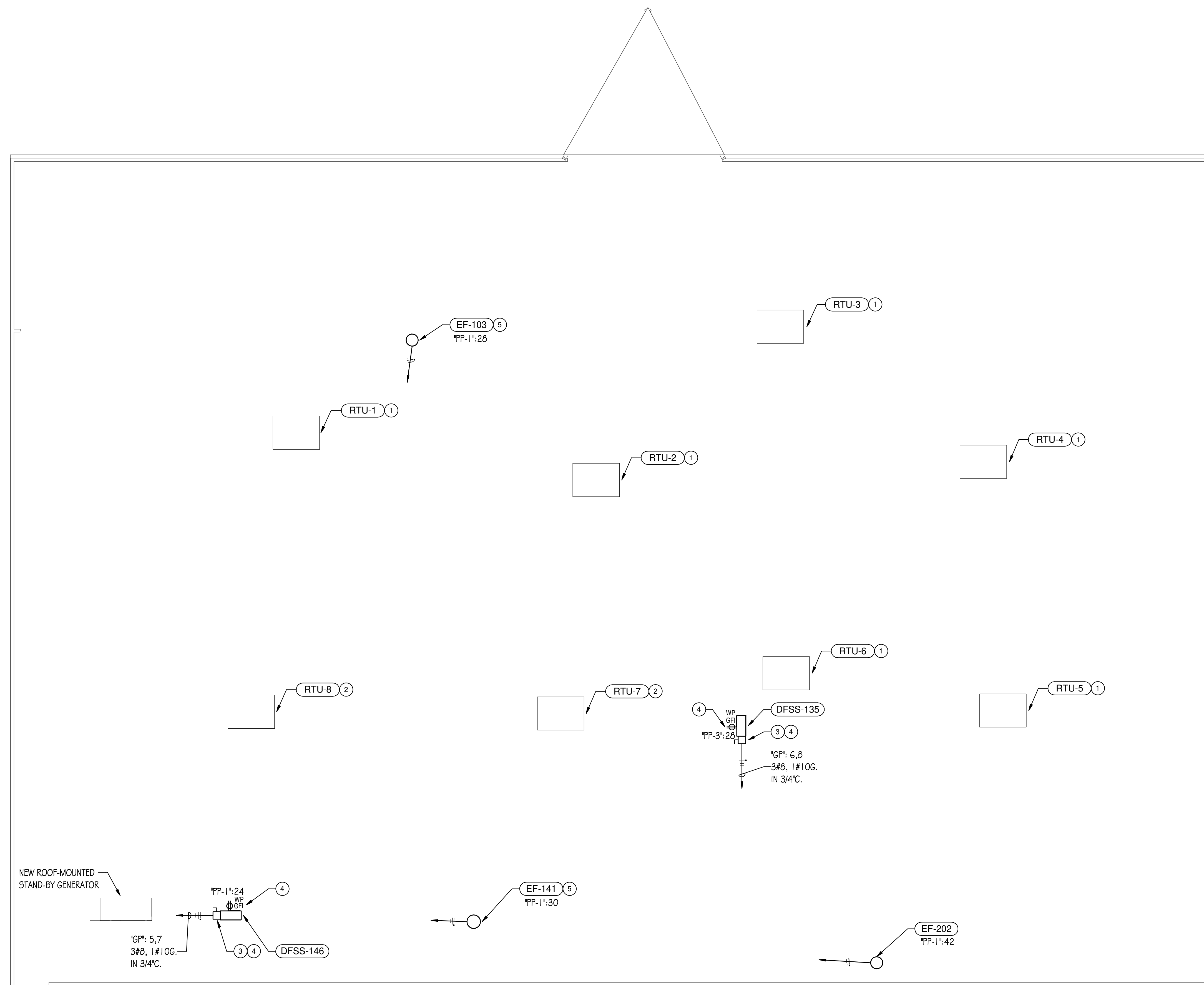
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**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**DRAWING NOTES**

- EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT EXISTING ELECTRICAL FEED TO MAINTAIN PROPER OPERATION OF EQUIPMENT. AT THE SOURCE OF THE FEEDER, PROVIDE NEW JUNCTION BOX AND SPLICE CONDUCTORS OF MATCHING GAUGE FOR EXTENSION TO NEW REPLACEMENT PANEL "A2". CONDUCTORS SHALL BE MINIMUM SIZE OF #4AWG. INFORM ARCHITECT/ENGINEER IF OTHERWISE. TERMINATE BRANCH CIRCUITS TO NEW CIRCUIT BREAKERS OF SAME SIZE AS PREVIOUSLY INSTALLED. FIELD VERIFY EXACT REQUIREMENTS.
- EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT EXISTING ELECTRICAL FEED TO MAINTAIN PROPER OPERATION OF EQUIPMENT. AT THE SOURCE OF THE FEEDER, PROVIDE NEW JUNCTION BOX AND SPLICE CONDUCTORS OF MATCHING GAUGE FOR EXTENSION TO NEW SWITCHBOARD. CONDUCTORS SHALL BE MINIMUM SIZE OF #4AWG. INFORM ARCHITECT/ENGINEER IF OTHERWISE. TERMINATE BRANCH CIRCUITS TO NEW CIRCUIT BREAKERS OF SAME SIZE AS PREVIOUSLY INSTALLED. FIELD VERIFY EXACT REQUIREMENTS.
- PROVIDE 240VAC, 2-POLE, 60AMP, RATED NON-FUSIBLE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE. COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH OTHERS TO MAINTAIN 3-FOOT WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT.
- EQUIPMENT SHALL BE MOUNTED ON UNISTRUT METAL FRAMING SYSTEM ANCHORED TO EQUIPMENT SUPPORT RAILS. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- DISCONNECT SWITCH FURNISHED WITH EQUIPMENT, WIRED BY ELECTRICAL CONTRACTOR.



**1 ELECTRICAL ROOF PLAN**  
 1/8" = 1'-0"

**MCHENRY COUNTY COLLEGE  
 UNIVERSITY CENTER AT MCC**

222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23

**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:

**ELECTRICAL ROOF  
 PLAN**

SHEET NUMBER:

**E1.20**

**DRAWING NOTES**

1. PROVIDE NETWORK INTERFACE MODULE TO COMMUNICATE WITH NETWORKED LIGHTING ZONES. INCLUDE ALL NETWORK REQUIREMENTS FOR A COMPLETE AND OPERABLE SYSTEM.
2. PROVIDE RELAY PANEL WITH (8) RELAYS TO CONTROL EXISTING EXTERIOR LIGHTING CIRCUITS. RELAY PANEL SHALL BE ACUTY NIGHT #ARP-INTENC16-NLT-8FCR-MVOLT-HLK-SM-DTC OR APPROVED EQUAL WITH #ARPA-APS-OL PHOTOSENSOR. LOCATE PHOTOSENSOR ON ROOF FACING NORTH. COORDINATE FINAL PHOTOSENSOR LOCATION WITH ARCHITECT.



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE  
 UNIVERSITY CENTER AT MCC**

222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

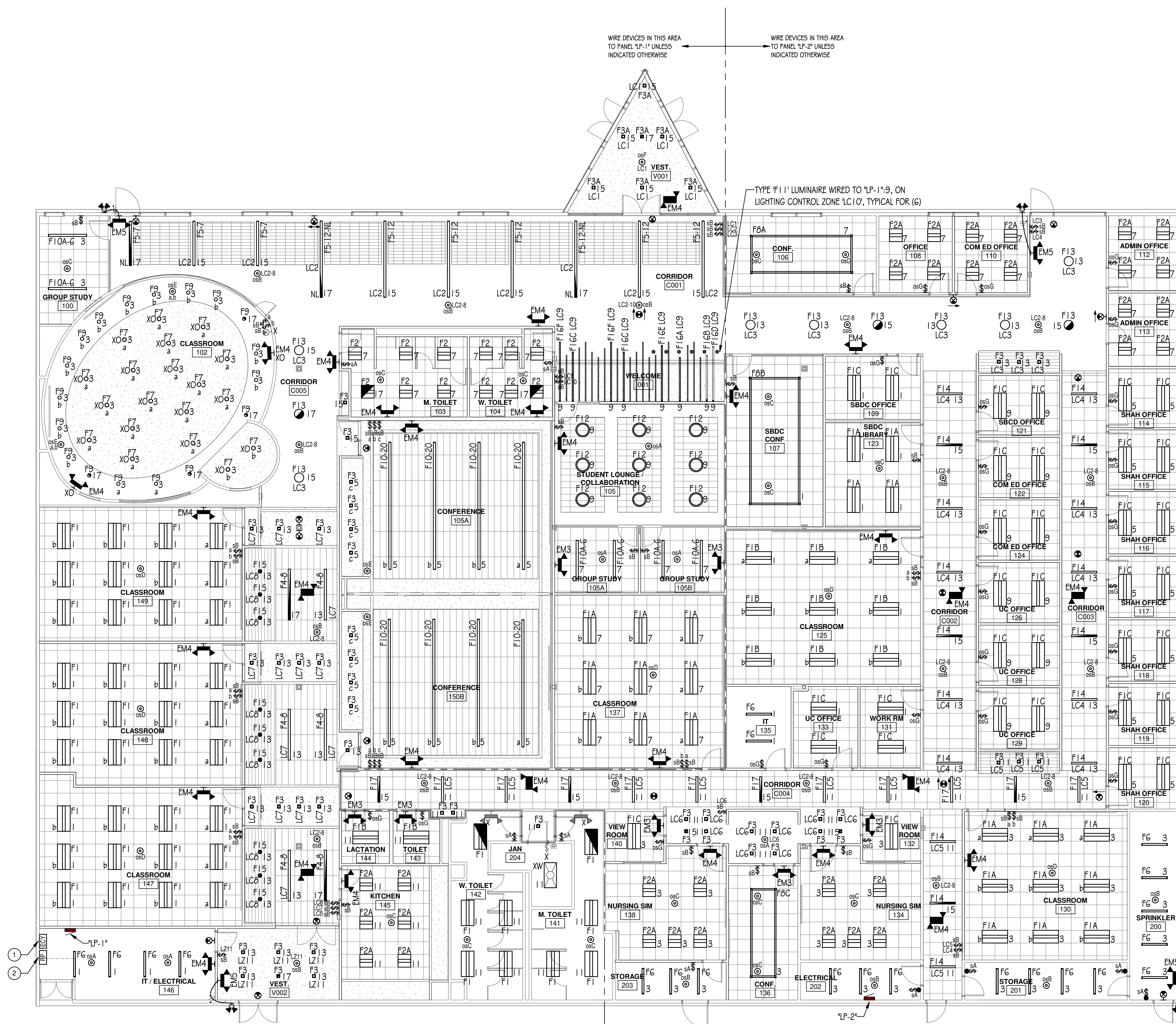
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**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**LIGHTING PLAN**

SHEET NUMBER:  
**E2.10**

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**1 LIGHTING PLAN**  
 1/8" = 1'-0"

**LIGHTING CONTROL NOTE:**  
 NEW LUMINAIRES DESIGNATED WITH LIGHTING ZONES 'LCX' SHALL BE CONNECTED TO A FULLY NETWORKED LIGHTING CONTROL SYSTEM. NOT ALL NETWORKED CONTROL DEVICES (BRIDGES, GATEWAYS, POWER SUPPLIES, ETC.) ARE SHOWN ON DRAWINGS. CONTRACTOR TO PROVIDE ALL DEVICES REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.  
**SEQUENCE OF OPERATION**  
 • NORMAL LUMINAIRES:  
 0% WHEN OCCUPANCY SENSOR DETECTS NO MOTION;  
 100% WHEN OCCUPANCY SENSOR DETECTS MOTION.  
 • NIGHT LIGHT LUMINAIRES:  
 50% WHEN OCCUPANCY SENSOR DETECTS NO MOTION;  
 100% WHEN OCCUPANCY SENSOR DETECTS MOTION.



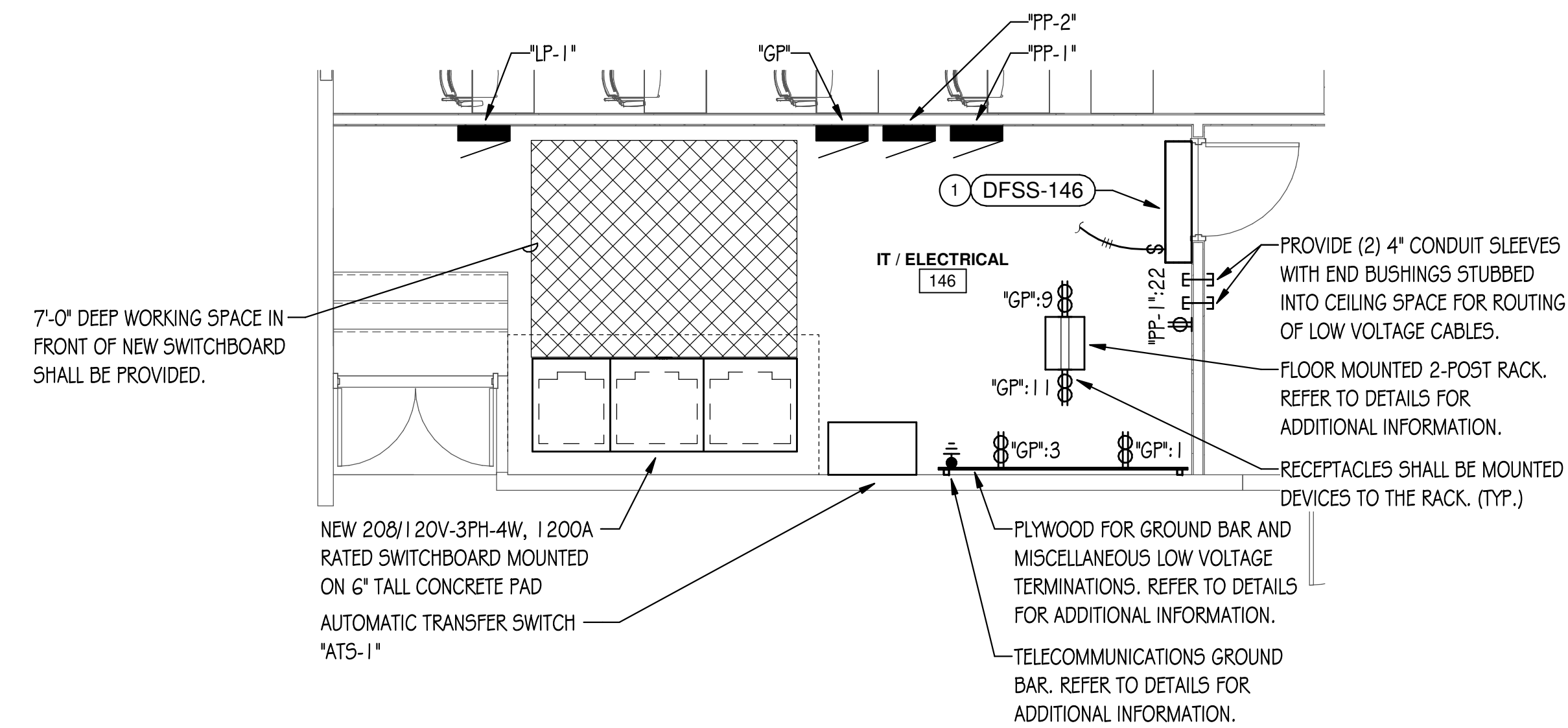
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**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

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 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
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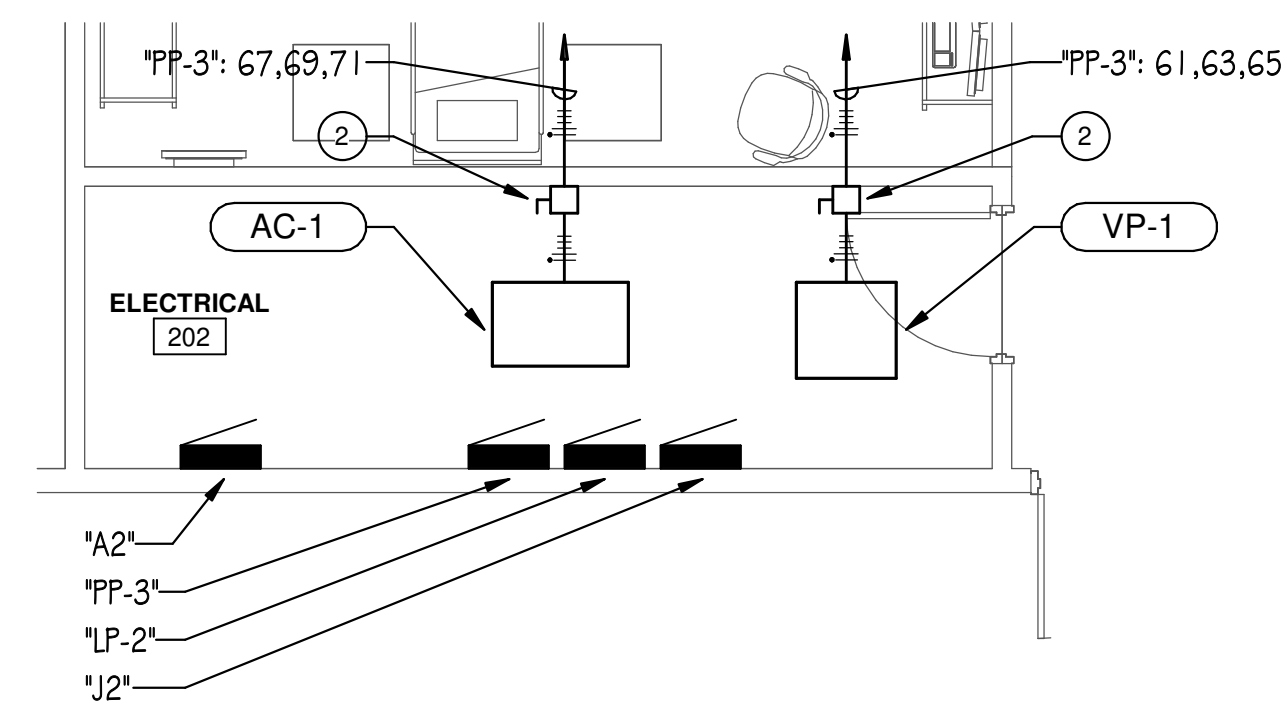
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**DRAWING NOTES**

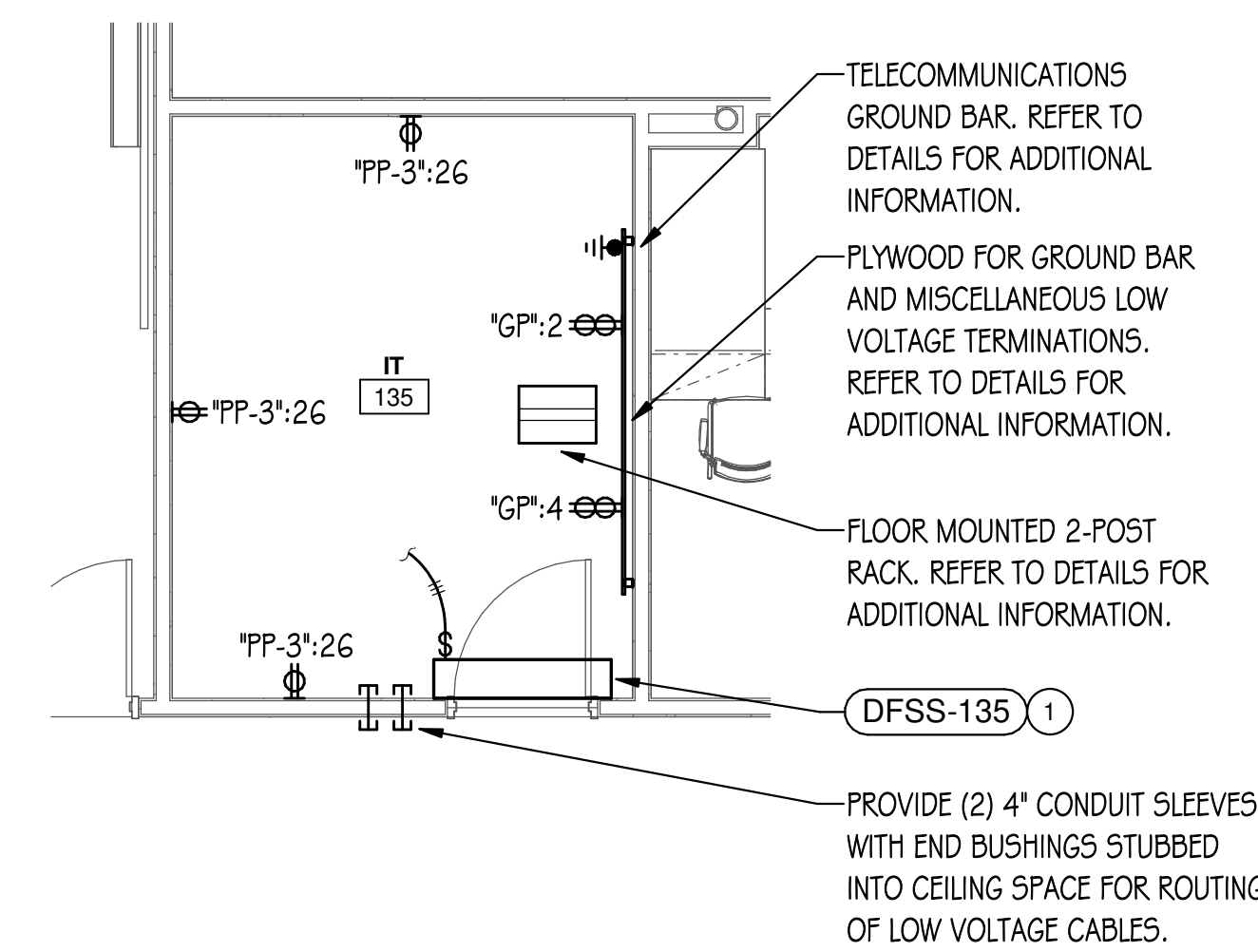
- INDOOR UNIT POWER IS SUPPLIED FROM OUTDOOR UNIT. PROVIDE 3#12 & 1#12G, IN 3/4" C. TO OUTDOOR UNIT INCLUDING ADDITIONAL WIRES IF REQUIRED PER MANUFACTURER'S INSTRUCTIONS. FOLLOW REFRIGERANT PIPING FOR ROUTING OF CONDUIT, NO EXCEPTIONS WILL BE ALLOWED. PROVIDE 240VAC, 20AMP, MOTOR RATED TOGGLE DISCONNECT SWITCH ADJACENT TO INDOOR UNIT WITH MACHINE MADE LABEL (P-TOUCH TYPE) INDICATING EQUIPMENT SERVED.
- PROVIDE 240VAC, 3-POLE, 30AMP, RATED NON-FUSIBLE DISCONNECT SWITCH IN NEMA 1 ENCLOSURE. COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH OTHERS TO MAINTAIN 3-FOOT WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT.



**2 ENLARGED ELECTRICAL PLAN - IT / ELECTRICAL 146**  
 1/4" = 1'-0"



**3 ENLARGED ELECTRICAL PLAN - STORAGE 202**  
 1/4" = 1'-0"



**1 ENLARGED ELECTRICAL PLAN - IT 135**  
 1/4" = 1'-0"

**MCHENRY COUNTY COLLEGE  
 UNIVERSITY CENTER AT MCC**

222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23  
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NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**ENLARGED  
 ELECTRICAL PLANS**

SHEET NUMBER:  
**E3.00**

### SERVICE LOAD CALCULATION

Project Name: MCHENRY COUNTY COLLEGE - WOODSTOCK CAMPUS  
 Project Address: CRYSTAL LAKE, IL  
 Type Of Project: EDUCATIONAL

Outside Building Dimensions: Length SEE PLAN Width SEE PLAN Available Fault Current (From Utility Co.) VERIFY  
 Number of Floors: 1 Total Ft.: 20,353  
 Type of Electrical Service: 3 Phase 4 Wire 208/120 Volts 1200 Amperes  
 Size of Service Entrance - Raceway 4" Service Conductors (3) PARALLEL SETS OF 4#600KCM  
 Size Of Grounding Electrode Conductor #3/0 CU Grounding Electrode Raceway 1"  
 Size Of O.C.P. 1200A Type Of O.C.P. 100% RATED MOLDED CASE CIRCUIT BREAKER

**General Lighting and Receptacle Load:**

Lighting Load for Educational Bldg. (NEC Table 220.12)	13,160	Sq. Ft.	3	WSq. Ft.	39,480
Lighting Load for Corridor Area (NEC Table 220.12)	6,178	Sq. Ft.	0.5	WSq. Ft.	3,089
Lighting Load for Storage Area (NEC Table 220.12)	790	Sq. Ft.	0.25	WSq. Ft.	197.5
<b>Total Lighting Load</b>					<b>42,767</b>

Other loads (Receptacles, Task Lights, etc.) (NEC 220.14) @ 180 VA EACH	416				74,880
Receptacle load: First 10,000 VA at 100% (NEC Table 220.44)					10,000
Receptacle load: Remainder over 10,000 VA at 50% (NEC Table 220.44)					32,440
<b>Total Receptacle Load w/ Demand</b>					<b>42,440</b>

**Additional Loads:**

3 EXHAUST FANS	120	VOLTS	1,752
1 ELECTRIC CEILING HEATER	208	VOLTS	2,000
3 ELECTRIC WALL HEATER	208	VOLTS	6,000
1 AIR COMPRESSOR	208	VOLTS	3,863
1 VACUUM PUMP	208	VOLTS	2,486
2 DUCT-FREE SPLIT SYSTEM	208	VOLTS	11,024
1 ELECTRIC CABINET UNIT HEATER	208	VOLTS	11,889
1 ELECTRIC FINNED TUBE	120	VOLTS	1,500
1 ROOFTOP UNIT	208	VOLTS	132,578
1 25% OF LARGEST MOTOR	208	VOLTS	4,143
<b>Total Additional Loads</b>			<b>177,335</b>

<b>Total Computed Load in VA</b>	<b>262,542</b>
<b>Total Amperes @ 208V, 3Ph</b>	<b>728.74</b>

### DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY.)

- LOCATE SERVICE RECEPTACLE INSIDE GENERATOR ENCLOSURE, ADJACENT TO RECEPTACLE SERVING BATTERY CHARGER.
- PROVIDE 1" CONDUIT AND CONTROL WIRING.
- WIRE #1/0 & #1/0G, IN 3/4" TO PANEL "PP-2" TO SERVE JACKET HEATER, SERVICE GFI AND BATTERY CHARGER.
- CAREFULLY DISCONNECT AND REMOVE EXISTING UTILITY METER FOR INSTALLATION IN NEW METER CABINET.
- PROVIDE 6" TALL CONCRETE PAD EXTENDING 9" IN ALL DIRECTIONS. CONFIRM EXACT DIMENSIONS WITH APPROVED EQUIPMENT SUBMITTALS.
- DISCONNECT AND PULL BACK EXISTING FEEDER. PROTECT DURING CONSTRUCTION FOR EXTENSION TO NEW EQUIPMENT AS INDICATED. FIELD VERIFY EXACT REQUIREMENTS.
- INTERCEPT EXISTING FEEDER AND EXTEND TO NEW EQUIPMENT AS INDICATED. PROVIDE NEW JUNCTION BOX AND SPLICE CONDUCTORS OF MATCHING GAUGE TO MAINTAIN FEED TO EXISTING PANEL TO REMAIN. CONDUCTORS SHALL BE MINIMUM SIZE OF #600KCM. INFORM ARCHITECT/ENGINEER IF OTHERWISE. FIELD VERIFY EXACT REQUIREMENTS.
- DISCONNECT, PULL BACK CONDUCTORS AND CONDUITS FOR ALL EXISTING BRANCH CIRCUITS TO REMAIN. PROTECT DURING CONSTRUCTION FOR EXTENSION AND RECONNECTION TO NEW REPLACEMENT PANEL "A2".
- EXTEND EXISTING BRANCH CIRCUITS FROM AN ACCESSIBLE JUNCTION BOX TO NEW REPLACEMENT PANEL "A2" AS NEEDED TO MAINTAIN FUNCTIONALITY OF EXISTING BRANCH CIRCUITS TO REMAIN. TERMINATE BRANCH CIRCUITS TO NEW CIRCUIT BREAKERS OF SAME SIZE AND QUANTITY AS PREVIOUSLY INSTALLED. FIELD VERIFY EXACT REQUIREMENTS.

### GENERAL NOTES:

- WORK SHALL COMPLY WITH THE 2020 NATIONAL ELECTRICAL CODE WITH CITY OF WOODSTOCK AMENDMENTS.
- RISER DIAGRAM IS DIAGRAMMATIC ONLY. COORDINATE EXACT ROUTING OF FEEDERS IN FIELD. PROVIDE PULLBOXES AS REQUIRED PER NEC REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT SHOWN IS NEW UNLESS NOTED OTHERWISE.
- PROVIDE 4" HOUSEKEEPING CONCRETE PAD FOR ALL FLOOR MOUNTED EQUIPMENT.
- SWITCHBOARDS AND PANELBOARDS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ARC-FLASH HAZARDS.
- PROPER WORKING CLEARANCES FOR ELECTRICAL PANELS SHALL BE MAINTAINED PER NEC 110.26.

**NOTE:**  
 SCHEDULE ELECTRIC SERVICE OUTAGE WITH UTILITY COMPANY AND NOTIFY OWNER, ARCHITECT AND GENERAL CONTRACTOR (10 DAYS IN ADVANCE). PHASING OF THE ELECTRICAL SERVICE CHANGE OVER SHALL BE COMPLETED IN ACCORDANCE WITH PROJECT SCHEDULE. CONTRACTOR SHALL SEQUENCE WORK TO LIMIT ELECTRICAL DOWNTIME. INCLUDE COSTS TO MODIFY EXISTING ELECTRICAL SWITCHBOARD REQUIRED TO MAINTAIN SERVICE TO BUILDING THROUGHOUT CONSTRUCTION UNTIL NEW SWITCHBOARD IS READY TO BE ENERGIZED. ALL OUTAGES SHALL BE SCHEDULED WHEN THE BUILDING IS UNOCCUPIED.

PROVIDE TEMPORARY POWER TO MAINTAIN LIFE SAFETY AND TELECOMMUNICATIONS SYSTEMS THROUGH THE DURATION OF THE OUTAGE. IF EXISTING ELECTRICAL SERVICE CANNOT BE UTILIZED, CONTRACTOR TO PROVIDE ROLL-UP GENERATORS CAPABLE OF SERVING SYSTEMS IDENTIFIED BY THE OWNER UNTIL NEW SWITCHBOARD IS READY TO BE ENERGIZED.

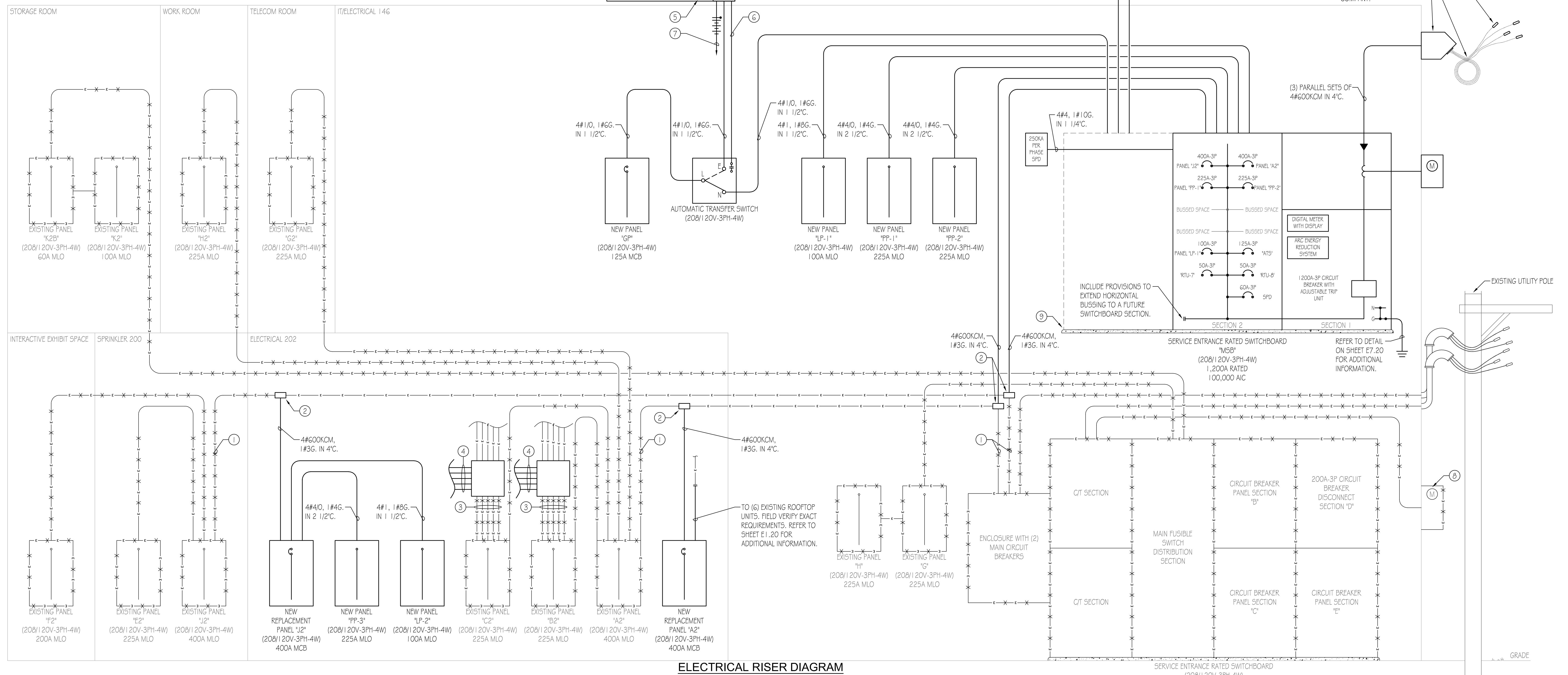
RESET AND RESTART ALL SYSTEMS INCLUDING, BUT NOT LIMITED TO, FIRE ALARM, SECURITY AND TELECOMMUNICATIONS AFTER RESTORING BUILDING POWER.

INCLUDE COSTS IN BID PROPOSAL TO LOCATE AND MARK EXISTING UNDERGROUND UTILITIES WHERE NEW UNDERGROUND WORK IS INDICATED. PRIOR TO ANY CONSTRUCTION ACTIVITIES, FOR LOCATION OF UTILITIES, CALL J.U.L.I.E. AT 1-800-892-0123.

**LEGEND:**

---x---x---x---x--- DENOTES DEMOLITION.  
 ---o---o---o---o--- DENOTES EXISTING TO REMAIN AND/OR BE REUSED.  
 --- DENOTES NEW.

EXISTING CONDITIONS WERE OBTAINED FROM EXISTING AS-BUILT DRAWINGS AND CURSORY FIELD OBSERVATION. THIS CONTRACTOR SHALL IDENTIFY ANY DISCREPANCIES IN THE FIELD AND REPORT THEM TO THE ENGINEER.



### ELECTRICAL RISER DIAGRAM

NO SCALE  
 NOTES:  
 1. REFER TO PLANS FOR LOCATIONS OF EQUIPMENT.  
 2. CONTRACTOR SHALL OBTAIN AVAILABLE FAULT CURRENT FROM UTILITY AND MAKE ADJUSTMENTS TO EQUIPMENT SHORT CIRCUIT CURRENT RATINGS AS REQUIRED.  
 3. CONTRACTOR SHALL COORDINATE AND INSTALL PER UTILITY REQUIREMENTS.



ARCHITECT OF RECORD  
**DEMIONA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE  
 UNIVERSITY CENTER AT MCC**  
 222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**ELECTRICAL RISER  
 DIAGRAM**

SHEET NUMBER:  
**E4.00**



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
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KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**ELECTRICAL SYMBOL LIST AND ABBREVIATIONS**

SHEET NUMBER:

**E5.00**

DEMOLITION SYMBOLS	
SYMBOL	DESCRIPTION
X	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO REMAIN.
R	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE REMOVED.
XRR	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE REMOVED, RELOCATED AND JUNCTION BOX REMOVED OR CAPPED AS REQUIRED. STORE AND PROTECT EXISTING DEVICE FOR RE-USE AND RE-INSTALLATION.
XR	EXISTING ELECTRICAL EQUIPMENT OR OUTLET RELOCATED (NEW LOCATION). EXTEND EXISTING FEED AS REQUIRED TO MAINTAIN DEVICE/EQUIPMENT OPERATION. PROVIDE NEW FEED OF MATCHING SPECIFICATIONS IN SITUATIONS WHERE THEY CANNOT BE SPLICED OR ARE NOT OF SUFFICIENT LENGTH TO REACH NEW LOCATION.
XC	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE REMOVED AND JUNCTION BOX CAPPED OR REUSED AS REQUIRED.
XO	NEW ELECTRICAL EQUIPMENT INSTALLED OVER EXISTING OUTLET.
XA	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE ABANDONED.
XM	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE MODIFIED.
XW	EXISTING ELECTRICAL EQUIPMENT TO BE REWIRED.
XRT	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE TEMPORARILY REMOVED AND REINSTALLED IN SAME LOCATION.

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT.

**GENERAL NOTE:**  
 CONTRACTOR SHALL MAINTAIN FIRE RATING OF ALL PARTITIONS FOR NEW PENETRATIONS. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALL. CABLING SHALL NOT PENETRATE WALLS UNLESS Routed THROUGH RACEWAY SYSTEM OR ROUTED ABOVE ACCESSIBLE CEILING. THROUGH METALLIC CONDUIT SLEEVES, EXTENDING A MINIMUM OF 6" EACH SIDE OF THE WALL WITH PROTECTIVE END BUSHINGS TO PREVENT DAMAGE TO CABLES. VOIDS AROUND SLEEVES SHALL BE SEALED WITH APPROPRIATE MATERIALS AS TO MAINTAIN THE ACOUSTIC OR FIRE RATING OF WALLS ABOVE AND BELOW CEILING. CABLES RUN THROUGH VOIDS WITHOUT SLEEVES OR RACEWAYS WILL NOT BE ACCEPTABLE. CONTRACTOR SHALL VERIFY EXISTING FIRE PARTITIONS IN THE FIELD.

**GENERAL NOTE:**  
 INCIDENTAL WORK MAY ALSO BE NECESSARY DUE TO CHANGES AFFECTING, FIRE ALARM, ELECTRICAL, OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO PART OF THIS CONTRACT. INSPECT THOSE AREAS, ASCERTAIN WORK NEEDED, AND DO THAT WORK IN ACCORD WITH THE CONTRACT REQUIREMENTS, AT NO ADDITIONAL COST. THE REMOVAL & REINSTALLATION OF EXISTING WORK TO ACCOMMODATE CHANGES TO EXISTING, OR INSTALLATION OF, ELECTRICAL, OTHER SYSTEMS IS ALSO PART OF THIS CONTRACT.

**GENERAL NOTE:**  
 REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL INFORMATION REGARDING MOUNTING HEIGHTS AND LOCATIONS OF ELECTRICAL DEVICES BEFORE ROUGH-IN.  
 WHERE CONFLICTS BETWEEN ELECTRICAL & ARCHITECTURAL ELEVATIONS ARISE, CONTRACTOR TO VERIFY WITH ARCHITECT/ENGINEER TEAM PRIOR TO ROUGH-IN.

**GENERAL NOTE:**  
 EXISTING CONDITIONS WERE OBTAINED FROM EXISTING AS-BUILT DRAWINGS AND CURSORY FIELD OBSERVATION. THIS CONTRACTOR SHALL IDENTIFY ANY DISCREPANCIES IN THE FIELD AND REPORT THEM TO THE ENGINEER.

**ELECTRICAL SYMBOL LIST** (NOTE: NOT ALL SYMBOLS ARE USED IN THE PROJECT.)

- 2' X 4' LUMINAIRE, RECESSED OR SURFACE MOUNTED PER LUMINAIRE SCHEDULE.
- 1' X 4' LUMINAIRE, RECESSED OR SURFACE MOUNTED PER LUMINAIRE SCHEDULE.
- 2' X 2' LUMINAIRE, RECESSED OR SURFACE MOUNTED PER LUMINAIRE SCHEDULE.
- HALF SHADING DENOTES FIXTURE UNSWITCHED 'NIGHTLIGHT'.
- STRIP LUMINAIRE PER LUMINAIRE SCHEDULE.
- WALL MOUNTED LUMINAIRE PER LUMINAIRE SCHEDULE.
- RECESSED OR SURFACE CEILING MOUNTED LUMINAIRE PER LUMINAIRE SCHEDULE.
- ILLUMINATED EXIT OR STAIR SIGN, SURFACE CEILING MOUNTED, SINGLE OR DOUBLE FACE, WITH OR WITHOUT DIRECTIONAL ARROWS PER SCHEDULE.  
- "WG" DENOTES WIRE GUARD.
- ILLUMINATED EXIT OR STAIR SIGN, SURFACE WALL MOUNTED, SINGLE OR DOUBLE FACE, WITH OR WITHOUT DIRECTIONAL ARROWS SCHEDULE.  
- "WG" DENOTES WIRE GUARD.
- SELF-CONTAINED EMERGENCY LUMINAIRE, WITH BATTERY BACK-UP AND SOLID STATE CHARGER PER SCHEDULE.  
- "WG" DENOTES WIRE GUARD.
- SELF-CONTAINED EMERGENCY LUMINAIRE WITH DUAL WEATHERPROOF REMOTE HEADS, BATTERY BACK-UP AND SOLID STATE CHARGER PER SCHEDULE.  
- "WG" DENOTES WIRE GUARD.
- SINGLE POLE 20 AMP 120-277 VOLT TOGGLE SWITCH INSTALLED 48" A.F.F.  
- "K" DENOTES KEYED SWITCH.
- THREE-WAY 20 AMP 120-277 VOLT TOGGLE SWITCH INSTALLED 48" A.F.F.  
- "K" DENOTES KEYED SWITCH.
- MOMENTARY CONTACT SWITCH (LOW VOLTAGE) INSTALLED 48" A.F.F.
- SLIDE DIMMER CONTROL. DECORA STYLE COMPATIBLE WITH LUMINAIRE AND DIMMING BALLAST/DRIVER TYPES INSTALLED 48" A.F.F.
- SINGLE POLE 20 AMP 120/277 VOLT TOGGLE SWITCH WITH PILOT LIGHT INSTALLED 48" A.F.F.
- WALL MOUNT COMBINATION OCCUPANCY SENSOR AND SWITCH AS SCHEDULED.
- OCCUPANCY SENSOR, LETTER INDICATES MODEL AND TYPE PER SCHEDULE.
- ELECTRICAL DEVICE MOUNTED ON SURFACE RACEWAY, WIREMOLD V700 U.N.O.
- SURFACE MOUNTED (EXPOSED) CONDUIT, BACKBOX FOR DEVICE AS SHOWN.
- (GF/USB) 20A, 2P, 3 WIRE, GROUNDING TYPE, 125V, SPECIFICATION-GRADE, TAMPER-RESISTANT TYPE DUPLEX RECEPTACLE NEMA 5-20R INSTALLED +16" A.F.F. UNLESS NOTED OTHERWISE.  
- "GF" DENOTES RECEPTACLE EQUIPPED WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.  
- "USB" DENOTES RECEPTACLE EQUIPPED WITH (2) USB PORTS.  
- "WP" DENOTES WEATHER-RESISTANT RECEPTACLE WITH LOW-PROFILE WHILE-IN-USE WEATHERPROOF COVER.
- (GF/USB) 20A, 2P, 3 WIRE, GROUNDING TYPE, 125V, SPECIFICATION-GRADE, TAMPER-RESISTANT TYPE DUPLEX RECEPTACLE NEMA 5-20R INSTALLED 6" ABOVE COUNTER TOP OR +42" A.F.F. UNLESS NOTED OTHERWISE.  
- "GF" DENOTES RECEPTACLE EQUIPPED WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.  
- "USB" DENOTES RECEPTACLE EQUIPPED WITH (2) USB PORTS.
- (GF/USB) TWO 20A, 2P, 3 WIRE, GROUNDING TYPE, SPECIFICATION-GRADE, TAMPER-RESISTANT TYPE DUPLEX RECEPTACLES NEMA 5-20R INSTALLED +16" A.F.F. UNLESS NOTED OTHERWISE.  
- "GF" DENOTES RECEPTACLE EQUIPPED WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.  
- "USB" DENOTES RECEPTACLE EQUIPPED WITH (2) USB PORTS.
- SIMPLEX RECEPTACLE.
- SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED IN THE PLAN.
- POWER OUTLET, CEILING MOUNTED.
- COMBINATION POWER/INFORMATION OUTLET, CEILING MOUNTED.
- HIGH CAPACITY MULTISERVICE (WITH DIVIDER/PARTITIONS) FLUSH FLOOR BOX. REFER TO PLANS AND DETAILS FOR QUANTITIES AND CONFIGURATIONS.
- METER.
- CIRCUIT BREAKER PANELBOARD.
- DRY TYPE TRANSFORMER WITH 4" CONCRETE HOUSEKEEPING PAD.
- DISTRIBUTION PANEL.
- NON-FUSED SAFETY DISCONNECT SWITCH, AMPERE RATING AND NUMBER OF POLES AS NOTED.
- FUSED DISCONNECT SWITCH, AMPERE RATING, NUMBER OF POLES AND FUSE SIZE AS NOTED.
- COMBINATION MOTOR STARTER WITH FUSED DISCONNECT, AMPERE RATING, NUMBER OF POLES, FUSE SIZE AND NEMA STARTER SIZE AS INDICATED.
- SWITCH FRAME SIZE.
- NUMBER OF FUSIBLE POLES.
- FUSE SIZE.
- NEMA ENCLOSURE RATING. (NEMA 1 STANDARD, 3R OUTDOORS AND WET LOCATIONS U.N.O.)
- FUSIBLE SWITCH RATING TAG.
- NEMA STARTER SIZE.
- ENCLOSED CIRCUIT BREAKER.
- MOTOR.
- MANUAL MOTOR STARTER, THERMAL OVERLOAD TOGGLE SWITCH.
- CEILING JUNCTION BOX.
- WALL MOUNTED JUNCTION BOX.
- JUNCTION BOX WITH FLEXIBLE CONDUIT FOR FINAL CONNECTION TO EQUIPMENT.
- THERMOSTAT, PROVIDE RECESSED JUNCTION BOX AND CONDUIT STUB-UP. REFER TO MECHANICAL FOR EXACT QUANTITY AND LOCATION.
- CO2 SENSOR, PROVIDE RECESSED JUNCTION BOX AND CONDUIT STUB-UP. REFER TO MECHANICAL FOR EXACT QUANTITY AND LOCATION.
- (DAS/BDA) RADIO ANTENNA.  
- "DAS" DENOTES DISTRIBUTED ANTENNA SYSTEM FOR CELLULAR NETWORK.  
- "BDA" DENOTES BI-DIRECTIONAL ANTENNA FOR PUBLIC SAFETY RADIO.
- CONDUIT ROUTED CONCEALED IN WALLS AND CEILING. HASH MARKS DENOTE QUANTITY OF #12 MINIMUM AWG CONDUCTORS OR AS NOTED.
- CONDUIT ROUTED EXPOSED. INSTALL PARALLEL TO WALLS AND CEILINGS. HASH MARKS DENOTE QUANTITY OF #12 MINIMUM AWG CONDUCTORS OR AS NOTED.
- CONDUIT ROUTED BELOW GRADE. HASH MARK DENOTES QUANTITY OF #12 MINIMUM AWG CONDUCTORS OR AS NOTED.
- DENOTES CONDUIT HOMERUN, 3/4" MINIMUM, PANEL DESTINATION AND CIRCUIT NUMBER(S) AS INDICATED.
- SHORT TICK MARK DENOTES LINE (HOT) OR SWITCH LEG CONDUCTOR, #12 MINIMUM AWG.
- LONG TICK MARK DENOTES NEUTRAL CONDUCTOR, #10 AWG MINIMUM.
- DENOTES INSULATED GROUND WIRE, #12 AWG MINIMUM.
- CONDUIT END CAP.
- CONDUIT WALL SLEEVES FOR ROUTING OF LOW VOLTAGE CABLING. EACH PENETRATION IS TO PROVIDE A MINIMUM OF (1) 1" (1/4" CONDUIT (DATA) & (1) 1" CONDUIT (FIRE ALARM/INTERCOM) U.N.O.
- DATA OUTLET LOCATION INSTALLED 16" A.F.F. U.N.O.
- TELEPHONE OUTLET LOCATION INSTALLED 16" A.F.F. U.N.O.
- DATA OUTLET LOCATION INSTALLED 42" A.F.F. U.N.O.
- TELEPHONE OUTLET LOCATION INSTALLED 42" A.F.F. U.N.O.
- DATA OUTLET LOCATION, CEILING MOUNTED.
- FLUSH CEILING SPEAKER, ROUND OR SQUARE.
- WEATHERPROOF PROJECTION TYPE WALL MOUNTED SPEAKER.  
- "AV" DENOTES PART OF AUDIO-VIDEO SYSTEM.
- WALL MOUNTED SPEAKER.  
- "AV" DENOTES PART OF AUDIO-VIDEO SYSTEM.
- CLOCK, COMPATIBLE WITH EXISTING MASTER CLOCK SYSTEM.
- COMBINATION CLOCK/SPEAKER, COMPATIBLE WITH EXISTING INTERCOM SYSTEM, IN COMMON ENCLOSURE.
- VOLUME CONTROL SWITCH INSTALLED 48" A.F.F. TO TOP OF DEVICE.
- CALL SWITCH, COMPATIBLE WITH EXISTING INTERCOM SYSTEM, INSTALLED 48" A.F.F. TO TOP OF DEVICE.
- CEILING MOUNTED WIRELESS ACCESS POINT.
- TELEVISION CONNECTION PLATE INSTALLED 96" A.F.F. U.N.O.
- AUDIO/VIDEO CONNECTION PLATE INSTALLED 16" A.F.F. U.N.O.
- AUDIO/VIDEO CONNECTION PLATE, CEILING MOUNTED.
- FIRE ALARM SYSTEM PULL STATION INSTALLED 48" A.F.F.
- (WG) FIRE ALARM SYSTEM STROBE NOTIFICATION DEVICE INSTALLED 80" A.F.F.  
- "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM HORN/STROBE NOTIFICATION DEVICE INSTALLED 80" A.F.F.  
- "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM SPEAKER/STROBE NOTIFICATION DEVICE INSTALLED 80" A.F.F.  
- "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM SPEAKER NOTIFICATION DEVICE INSTALLED 80" A.F.F.  
- "WG" DENOTES WIRE GUARD.
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- "WG" DENOTES WIRE GUARD.
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- "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM CEILING SMOKE DETECTOR.  
- "WG" DENOTES WIRE GUARD.
- (FT,WG) FIRE ALARM SYSTEM CEILING HEAT DETECTOR.  
- "FT" DENOTES FIXED TEMPERATURE.  
- "WG" DENOTES WIRE GUARD.
- (FACP) FIRE ALARM CONTROL PANEL.
- (FACP) FIRE ALARM ANNUNCIATOR PANEL.
- (NAC) FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL.
- (SD) FIRE ALARM SYSTEM DUCT SMOKE DETECTOR.
- (CO) FIRE ALARM SYSTEM DUCT CARBON MONOXIDE DETECTOR.
- (VSS) FIRE ALARM VALVE SUPERVISORY SWITCH.
- (FS) WATER FLOW SWITCH.
- (TS) TAMPER SWITCH.
- (MD) MAGNETIC DOOR HOLDER.
- (TA,FA) ALARM BELL.  
- "TA" DENOTES TORNADO ALARM.  
- "FA" DENOTES FIRE ALARM.
- (K) FIRE ALARM SYSTEM DUCT SMOKE DETECTOR KEY OPERATED TEST SWITCH WITH INDICATING LIGHT, WALL OR CEILING MOUNTED.
- (W) SECURITY CAMERA. (WALL MOUNT)
- (C) SECURITY CAMERA. (MOUNTED IN THE ACOUSTIC CEILING TILE)
- (S) SECURITY SENSOR/INITIATOR.
- (MPS) MAGNETIC POSITION SWITCH, DOOR OR WINDOW.
- (EDLS) ELECTRONIC DOOR (LOCK) STRIKE.
- (PAD) POWER ASSISTED DOOR ACTUATOR.
- (SSA) DOOR SECURITY ANNUNCIATOR PANEL.
- (SSC) SECURITY SYSTEM CONTROL PANEL.
- (SKP) SECURITY SYSTEM KEY PAD.
- (ACR) ACCESS CONTROL CREDENTIAL READER.

- CONDUIT ROUTED CONCEALED IN WALLS AND CEILING. HASH MARKS DENOTE QUANTITY OF #12 MINIMUM AWG CONDUCTORS OR AS NOTED.
- CONDUIT ROUTED EXPOSED. INSTALL PARALLEL TO WALLS AND CEILINGS. HASH MARKS DENOTE QUANTITY OF #12 MINIMUM AWG CONDUCTORS OR AS NOTED.
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- WALL MOUNTED SPEAKER.  
- "AV" DENOTES PART OF AUDIO-VIDEO SYSTEM.
- CLOCK, COMPATIBLE WITH EXISTING MASTER CLOCK SYSTEM.
- COMBINATION CLOCK/SPEAKER, COMPATIBLE WITH EXISTING INTERCOM SYSTEM, IN COMMON ENCLOSURE.
- VOLUME CONTROL SWITCH INSTALLED 48" A.F.F. TO TOP OF DEVICE.
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- "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM HORN NOTIFICATION DEVICE, CEILING MOUNTED.  
- "WG" DENOTES WIRE GUARD.
- (WG) FIRE ALARM SYSTEM CEILING SMOKE DETECTOR.  
- "WG" DENOTES WIRE GUARD.
- (FT,WG) FIRE ALARM SYSTEM CEILING HEAT DETECTOR.  
- "FT" DENOTES FIXED TEMPERATURE.  
- "WG" DENOTES WIRE GUARD.
- (FACP) FIRE ALARM CONTROL PANEL.
- (FACP) FIRE ALARM ANNUNCIATOR PANEL.
- (NAC) FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL.
- (SD) FIRE ALARM SYSTEM DUCT SMOKE DETECTOR.
- (CO) FIRE ALARM SYSTEM DUCT CARBON MONOXIDE DETECTOR.
- (VSS) FIRE ALARM VALVE SUPERVISORY SWITCH.
- (FS) WATER FLOW SWITCH.
- (TS) TAMPER SWITCH.
- (MD) MAGNETIC DOOR HOLDER.
- (TA,FA) ALARM BELL.  
- "TA" DENOTES TORNADO ALARM.  
- "FA" DENOTES FIRE ALARM.
- (K) FIRE ALARM SYSTEM DUCT SMOKE DETECTOR KEY OPERATED TEST SWITCH WITH INDICATING LIGHT, WALL OR CEILING MOUNTED.
- (W) SECURITY CAMERA. (WALL MOUNT)
- (C) SECURITY CAMERA. (MOUNTED IN THE ACOUSTIC CEILING TILE)
- (S) SECURITY SENSOR/INITIATOR.
- (MPS) MAGNETIC POSITION SWITCH, DOOR OR WINDOW.
- (EDLS) ELECTRONIC DOOR (LOCK) STRIKE.
- (PAD) POWER ASSISTED DOOR ACTUATOR.
- (SSA) DOOR SECURITY ANNUNCIATOR PANEL.
- (SSC) SECURITY SYSTEM CONTROL PANEL.
- (SKP) SECURITY SYSTEM KEY PAD.
- (ACR) ACCESS CONTROL CREDENTIAL READER.



**GENERAL REMODELING NOTE:** (APPLICABLE TO ALL SHEETS.)

- 1. WORK SHOWN ON DRAWINGS SHALL BE CONSIDERED NEW AND IN CONTRACT UNLESS SPECIFICALLY INDICATED OTHERWISE.
- 2. DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF CONDUITS, RACEWAYS, ETC., AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. EACH CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN COMPLETION DATE OF THE PROJECT.
- 3. IT IS INTENDED THAT EQUIPMENT SHALL BE LOCATED SYMMETRICALLY WITH THE ARCHITECTURAL ELEMENTS OF THE BUILDING, NOTWITHSTANDING THE FACT THAT LOCATIONS INDICATED BY THESE DRAWINGS MAY BE DISTORTED FOR CLARITY OF PRESENTATION.
- 4. CONTRACTOR SHALL CHECK DRAWINGS OF OTHER TRADES TO VERIFY THAT SPACES IN WHICH THEIR WORK WILL BE INSTALLED ARE CLEAR OF OBSTRUCTIONS. WORK SHALL BE INSTALLED TO MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS IN THE BUILDING. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION OF THEIR WORK.
- 5. CONTRACTOR SHALL FURNISH OTHER TRADES ADVANCE INFORMATION AND/OR SHOP DRAWINGS ON LOCATIONS AND SIZES OF PIPING, DUCTWORK, CONDUIT, RACEWAYS, EQUIPMENT, FRAMES, BOXES, SLEEVES AND OPENINGS, ETC. NEEDED FOR THEIR WORK TO PERMIT OTHER TRADES AFFECTED TO INSTALL THEIR WORK PROPERLY AND WITHOUT DELAY.
- 6. WHERE THERE IS EVIDENCE THAT WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, ALL TRADES SHALL MEET ON JOB SITE TO WORK OUT SPACE CONDITIONS AND MAKE SATISFACTORY ADJUSTMENTS TO INSTALLATION OF THE NEW WORK. CONTRACTORS SHALL VERIFY EXACT LOCATIONS OF ALL DEVICES AND EQUIPMENT WITH FIELD CONDITIONS, SHOP DRAWINGS, AND WORK OF OTHER TRADES PRIOR TO ROUGH-IN. EACH CONTRACTOR SHALL BE RESPONSIBLE, AT THEIR OWN EXPENSE, FOR THE REMOVAL AND REINSTALLATION OF ANY PART OF THEIR WORK IF SAME WAS INSTALLED WITHOUT CONSULTING WITH OTHER TRADES BEFORE INSTALLING THEIR WORK.
- 7. CONTRACTOR SHALL PROVIDE SLEEVES IN BEAMS, FLOORS, COLUMNS AND WALLS AS SHOWN ON THE DRAWINGS, AS REQUIRED BY JOB SITE CONDITIONS, AND/OR AS SPECIFIED, WHEN INSTALLING THEIR WORK. ALL BEAMS AND COLUMNS WHICH ARE REQUIRED TO BE SLEEVED SHALL BE CUT AND REINFORCED AS REQUIRED BY FIELD CONDITIONS AND LOCATIONS AND SIZES SHALL BE CHECKED AND APPROVED BY ARCHITECT BEFORE CONTRACTOR CUTS ANY STRUCTURAL BUILDING MEMBER.
- 8. THE SEQUENCE FOR THE INSTALLATION OF ALL WORK SHALL BE COORDINATED BETWEEN ALL CONTRACTORS ON THE PROJECT AND IN STRICT ACCORDANCE WITH ARCHITECT/ENGINEER AND OWNER'S STIPULATION AS DIRECTED.
- 9. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND STRUCTURAL CONTRACT DRAWINGS (BEFORE SUBMITTING THEIR BIDS) TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE GENERAL CONTRACTORS WORK, CEILING HEIGHTS AND CLEARANCE FOR INSTALLING THEIR WORK.
- 10. CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, REPAIRING, REFINISHING AND REMOVAL/REPLACEMENT OF NEW BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. REMOVE, STORE AND REINSTALL CEILING TILES AS REQUIRED TO INSTALL WORK ABOVE EXISTING CEILINGS WHICH REMAIN, REPLACE TILES BROKEN OR DAMAGED DURING CONSTRUCTION. ALL PATCHING, REPAIRING AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY EXISTING BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK OR REMOVAL OF EXISTING WORK SHALL BE REPAIRED, REPLACED AND PAID FOR BY THE INSTALLING CONTRACTOR, TO THE SATISFACTION OF THE ARCHITECT AND OWNER. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING BUILDING CONSTRUCTION THAT IS TO REMAIN AND, THEREFORE, SUBJECT TO PATCHING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN CLEAN-UP DURING CONSTRUCTION. IF CONTRACTOR FAILS TO PROVIDE SUCH CLEAN-UP, THE ARCHITECT/ENGINEER WILL DIRECT ANOTHER CONTRACTOR TO PERFORM THE CLEAN-UP AND THE NEGLIGENT CONTRACTOR SHALL PAY THE ASSOCIATED BACK-CHARGES AS DEEMED APPROPRIATE BY THE ARCHITECT/ENGINEER.
- 12. CONTRACTOR SHALL INSTALL ALL AUXILIARY SUPPORTING STEEL AS REQUIRED FOR THE SUPPORTING OF THEIR CONDUIT, EQUIPMENT, ETC. ALL SUPPORTING STEEL FOR ITEMS ABOVE A SUSPENDED CEILING SHALL BE FROM BUILDING STRUCTURAL MEMBERS ONLY.
- 13. IT IS MANDATORY THAT THE COMPLETE EXISTING BUILDING REMAIN IN CONTINUOUS AND NON-INTERRUPTED OPERATION DURING REMODELING/ALTERING OF SAID EXISTING BUILDING. THE SPECIFIC AREAS(S) BEING REMODEL/ALTERED AT ANY SCHEDULED TIME ARE OBVIOUSLY EXCLUSIVE OF THIS STATEMENT. SERVICES TO EXISTING BUILDING SHALL BE KEPT IN CONTINUOUS OPERATION INCLUDING POWER, SIGNAL SYSTEMS, LIGHTING, TELEPHONE, HEATING, COOLING, VENTILATING, TEMPERATURE CONTROL. ANY ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACCOMPLISH CONTRACT WORK SHALL BE ARRANGED WITH THE OWNER A MINIMUM OF TEN (10) WORKING DAYS IN ADVANCE. SUCH INTERRUPTIONS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AS FAR AS TIME INTERVAL IS INVOLVED AND TEMPORARY SERVICES SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT WHERE NECESSARY TO ACCOMPLISH THIS PURPOSE. TEMPORARIES SHALL BE REMOVED BY THE CONTRACTOR ONLY AFTER NEW PERMANENT SERVICES ARE INSTALLED AND FULLY OPERATIONAL.
- 14. UNLESS INDICATED OTHERWISE, THE ARCHITECT/ENGINEER MAKES NO REPRESENTATION AS TO WHETHER OR NOT ANY HAZARDOUS OR CONTAMINATED MATERIALS (INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB'S, CONTAMINATED SOILS, ETC.) ARE PRESENT WITHIN THE EXISTING BUILDING OR ON THE SITE. WORK SHOWN ON THE DRAWINGS AND/OR INDICATED IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED TO CALL FOR CONTACT WITH ANY OF THESE MATERIALS. IF THESE MATERIALS ARE ENCOUNTERED OR SUSPECTED, THE CONTRACTOR SHALL NOT DISTURB THEM AND SHALL CONTACT THE ARCHITECT/ENGINEER IMMEDIATELY.
- 15. CONTRACTOR SHALL STORE ALL MATERIALS AND EQUIPMENT SHIPPED TO THE SITE IN A PROTECTED AREA. IF MATERIAL IS STORED OUTSIDE OF THE BUILDING, IT MUST BE STORED OFF THE GROUND A MINIMUM OF SIX INCHES (6") SET ON 6 X 6 PLANKS AND/OR WOOD PALLETES. ALL MATERIAL AND EQUIPMENT MUST BE COMPLETELY COVERED WITH WATERPROOF TARP OR VISQUIN. ALL CONDUIT WILL HAVE THE ENDS CLOSED TO KEEP OUT DIRT AND OTHER DEBRIS. NO EQUIPMENT WILL BE ALLOWED TO BE STORED ON THE SITE UNLESS IT IS SITTING ON WOOD PLANKS AND COMPLETELY PROTECTED WITH WEATHERPROOF COVERS.
- 16. THE DRAWINGS, SCHEDULES AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AS THE BASIS FOR DIMENSIONAL DESIGN. IF THE CONTRACTOR PURCHASES EQUIPMENT FROM A SPECIFIED ACCEPTABLE MANUFACTURER, BUT NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED, PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH SUITABLE ACCESS AROUND EQUIPMENT FOR OPERATION AND MAINTENANCE OF THE EQUIPMENT. WHEN EQUIPMENT SUBMITTED FOR REVIEW DOES NOT MEET THE PHYSICAL SIZE OR ARRANGEMENT OF THAT SCHEDULED AND SPECIFIED, CONTRACTOR SHALL PAY FOR ALL ALTERATIONS REQUIRED TO ACCOMMODATE SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR WILL ALSO PAY ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, OWNER, ARCHITECT OR ENGINEER TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT TO FIT IN THE SPACE AND FUNCTION AS INTENDED.
- 17. CONTRACTOR AND/OR MANUFACTURER SHALL VERIFY THAT THE CHARACTERISTICS OF THE EQUIPMENT HE SUBMITS FOR REVIEW MEET THE CAPACITY AND DUTY SPECIFIED.
- 18. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THEIR ASSOCIATED FEES.

**GENERAL ELECTRICAL NOTES:** (APPLICABLE TO ALL SHEETS.)

- 1. THE MINIMUM WIRE SIZE SHALL BE #12 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS AND BRANCH FEEDS TO POWER OUTLETS SHALL BE 3/4". 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO END OF THE LINE RECEPTACLES ONLY. ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 20A-1P CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS NOTED OTHERWISE.
- 2. PROVIDE ALL PENETRATIONS, SLEEVES, AND SEALANT AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, PAGING, CLOCK, VOICE, AND DATA CABLING. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS, AND CEILINGS.
- 3. BACKBOXES ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
- 4. CIRCUIT NUMBER(S), WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
- 5. UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
- 6. DURING THE COURSE OF INVESTIGATION AND DEMOLITION, IF IT IS DETERMINED THAT IT MAY BE FEASIBLE TO UTILIZE EXISTING MATERIALS FOR BRANCH CIRCUITS AND FEEDERS, CONTRACTOR SHALL NOTIFY ENGINEER FOR APPROVAL PRIOR TO PERFORMING ANY WORK.
- 7. ANY ELECTRICAL DEVICES ON NEW WALLS SHALL BE FLUSH MOUNTED. NO WIREMOLDS ARE ACCEPTABLE ON NEW WALLS UNLESS NOTED OTHERWISE.
- 8. VERIFY RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE LAYOUT TO ENSURE PROPER ACCESSIBILITY.
- 9. DRAWINGS DO NOT REPRESENT ALL EXISTING FIRE ALARM DEVICES. INITIATING AND NOTIFICATION DEVICES NOT SHOWN ON THE DRAWINGS ARE EXISTING TO REMAIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN OPERATION OF THE EXISTING DEVICES NOT SHOWN.
- 10. EXISTING FIRE ALARM SYSTEM SHALL BE OPERATIONAL AT ALL TIMES. THE OCCUPIED AREA OF THE BUILDING SHALL NOT BE LEFT UNPROTECTED AT ANY TIME. IF AN INTERRUPTION OF FIRE ALARM SYSTEM IS REQUIRED TO FACILITATE DEVICE INSTALLATION, PROVIDE 48 HOURS OF ADVANCE NOTICE TO THE OWNER AND THE LOCAL FIRE DEPARTMENT. CONTRACTOR SHALL HIRE AN AUTHORIZED PERSONNEL TO WATCH/GUARD ANY UNPROTECTED AREAS OF THE BUILDING WHERE NECESSARY.
- 11. UNLESS INDICATED ON ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT OF NEW OR EXISTING BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. REMOVE, STORE, AND REINSTALL CEILING TILES AS REQUIRED TO INSTALL WORK ABOVE EXISTING REMOVABLE CEILINGS WHICH REMAIN; REPLACE TILES BROKEN OR DAMAGED DURING CONSTRUCTION. ALL PATCHING, REPAIRING, AND REFINISHING WORK TO OTHER FINISHES AND STRUCTURAL ELEMENTS SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE WHILE MAINTAINING EXISTING FIRE RATINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXISTING FIRE RATINGS OF CEILINGS AND PARTITIONS SYSTEMS. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY EXISTING BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK OR REMOVAL OF EXISTING WORK SHALL BE REPAIRED, REPLACED, AND PAID FOR BY THE INSTALLING CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT AND OWNER. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING BUILDING CONSTRUCTION THAT IS TO REMAIN AND, THEREFORE, SUBJECT TO PATCHING, REPAIRING, REFINISHING, AND REMOVAL/REPLACEMENT.
- 12. REMOVE AND REINSTALL CEILING MOUNTED DEVICES AS REQUIRED TO ALLOW INSTALLATION OF FEEDERS, BRANCH CIRCUITS, MECHANICAL PIPING, AND DUCT WORK. DEVICES INCLUDE BUT ARE NOT LIMITED TO: LUMINAIRES, SPEAKERS, FIRE ALARM, AND PAGING DEVICES.
- 13. PROVIDE PULL BOX(ES) BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.26 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREE TOTAL) BETWEEN PULL POINTS.
- 14. SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPEN CEILING SPACE FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES AND TIGHT TO CEILING/STRUCTURAL CORNERS. WHERE THIS IS NOT FEASIBLE, SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- 15. IN RENOVATIONS, IF AN EXISTING RECEPTACLE/JUNCTION BOX LOCATION WILL END UP HIDDEN BEHIND PERMANENTLY INSTALLED EQUIPMENT OR CASEWORK, PROCEED AS NOTED BELOW:
  - A. IF THE RECEPTACLE IS AN END OF LINE DEVICE (IT DOES NOT FEED OTHER DEVICES), IT SHALL BE REMOVED INCLUDING ASSOCIATED WIRING BACK TO LAST ACTIVE DEVICE OR JUNCTION BOX AND A BLANK COVER PLATE INSTALLED.
  - B. IF THE RECEPTACLE DOES SERVE DOWNSTREAM DEVICES, REMOVE RECEPTACLE AND REWORK WIRING TO A NEW OR EXISTING JUNCTION BOX ABOVE CEILING SUCH THAT NO WIRES ARE PRESENT IN THE JUNCTION BOX. A BLANK COVER PLATE SHALL BE INSTALLED.
- 16. CONTRACTOR SHALL PROVIDE DEDICATED NEUTRAL FOR EACH BRANCH CIRCUIT TO MEET THE REQUIREMENTS OF NEC ARTICLE 210.4(B).
- 17. LOW VOLTAGE CABLES INCLUDING, BUT NOT LIMITED TO, TELECOMMUNICATIONS, PAGING, TEMPERATURE CONTROL, FIRE ALARM, LIGHTING CONTROL, AND AUDIO/VIDEO SYSTEMS, ETC., SHALL BE INSTALLED IN A COMPLETE RACEWAY SYSTEM IN ALL INACCESSIBLE AREAS.
- 18. IN JUNCTION BOXES WHERE CURRENT CARRYING CONDUCTORS ARE SPLICED OR TERMINATED, PROVIDE BOND TO JUNCTION BOX FROM EQUIPMENT GROUNDING CONDUCTOR.
- 19. IN AREAS OF THE BUILDING WHERE NEW CEILING HEIGHT IS HIGHER THAN THE EXISTING CEILING HEIGHT, ANY EXISTING CONDUITS/CONDUCTORS AND JUNCTION BOXES SERVING EXISTING DEVICES/EQUIPMENT TO REMAIN SHALL BE RE-ROUTED, RELOCATED, AND MODIFIED AS REQUIRED TO ACCOMMODATE NEW CEILING HEIGHT. FIELD VERIFY EXACT CONDITIONS.
- 20. IN AREAS OF THE BUILDING WHERE NEW DRYWALL OR PLASTER CEILING IS SCHEDULED TO BE INSTALLED, ANY EXISTING JUNCTION BOXES AND ASSOCIATED CONDUITS/CONDUCTORS SHALL BE MODIFIED AND RELOCATED AS REQUIRED TO AN ACCESSIBLE LOCATION UNLESS NEW ACCESS PANELS ARE PERMITTED TO BE INSTALLED IN NEW CEILING BY THE ARCHITECT.
- 21. COORDINATE POWER REQUIREMENTS FOR BUILDING AUTOMATION SYSTEM (BAS) CONTROLLERS WITH MECHANICAL/BAS CONTRACTORS. PROVIDE 2#12, 1#12G. IN 3/4" C. FROM EACH BAS CONTROLLER TO A NEW 20A-1P CIRCUIT BREAKER IN ELECTRICAL PANEL SERVING AREA WITH SPACE AND CAPACITY.
- 22. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF THERMOSTAT/CARBON DIOXIDE DETECTORS. PROVIDE SINGLE GANG BACKBOX AND EMPTY 3/4" CONDUIT WITH FULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE FOR INSTALLATION OF THERMOSTAT/CARBON DIOXIDE DETECTORS. CABLING AND DEVICE SHALL BE BY OTHERS.
- 23. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH SURROUNDING FINISHES.
- 24. CONDUITS AND RACEWAYS SHALL NOT BE ROUTED ACROSS FLOORS OR SLABS.
- 25. CONDUCTORS FOR EQUIPMENT RATED 100AMP. AND BELOW ARE SIZED PER ARTICLE 110.14(C)(1)(a)(2) WHICH INDICATES TO UTILIZE THE 60° TEMPERATURE RATING COLUMN OF TABLE 310.15(B)(16) REGARDLESS OF CONDUCTOR INSULATION RATING.
- 26. WHERE EXISTING RACEWAYS ARE REUSED, CONTRACTOR SHALL BE RESPONSIBLE FOR MECHANICAL INTEGRITY OF RACEWAY. CONTRACTOR SHALL PERFORM ALL REPAIRS TO ANY REUSED EXISTING RACEWAY SO THAT RACEWAY SYSTEM IS CONTINUOUS AND CODE COMPLIANT. CONTRACTOR SHALL ENSURE ANY EXISTING RACEWAY SYSTEM DOES NOT DAMAGE NEW CONDUCTORS/CABLES. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE REUSED RACEWAY AND WARRANTY THEM AS NEW.
- 27. LOCATE NOTIFICATION APPLIANCE CIRCUIT (NAC) PANELS, IN SERVICE SPACES SUCH AS JANITOR/STORAGE CLOSET OR MECHANICAL/ELECTRICAL ROOMS. PROVIDE A SMOKE DETECTOR ABOVE EACH NAC PANEL.
- 28. PROVIDE A DEDICATED 120VAC, 20AMP. BRANCH CIRCUIT TO EACH NAC PANEL FROM THE NEAREST ELECTRICAL PANEL WITH SPARE SPACE/CAPACITY. PROVIDE 20A-1P CIRCUIT BREAKER OF TYPE TO MATCH PANEL WITH ACCESSORY TO LOCK FIRE ALARM CIRCUIT BREAKER IN THE "ON" POSITION. PROVIDE UPDATED PANELBOARD DIRECTORY TO REFLECT ANY CHANGES.
- 29. ROOM NAMES AND NUMBERS ARE SHOWN ON THE DRAWINGS FOR REFERENCES ONLY. CONTRACTOR SHALL FIELD VERIFY AND OBTAIN EXACT ROOM NAMES AND NUMBERS TO BE UTILIZED FOR PROGRAMMING AND ALL CLOSEOUT DOCUMENTS.
- 30. EACH INITIATING DEVICE SHALL BE PROVIDED WITH A VISIBLE LABEL WITH BAR CODE TO INCLUDE THE DEVICE ADDRESS NUMBER.
- 31. ADJUST LOCATION OF SMOKE/HEAT DETECTORS A MINIMUM OF 3 FEET AWAY FROM HVAC DIFFUSERS.
- 32. PROVIDE ALL REQUIRED COMPONENT FOR AN OPERABLE FIRE ALARM SYSTEM, INCLUDING BUT NOT LIMITED TO NAC PANELS, AMPLIFIERS, BATTERY CABINETS, ETC.

**GENERAL ELECTRICAL DEMOLITION NOTES:** (APPLICABLE TO ALL SHEETS.)

- 1. ALL INDICATED ELECTRICAL EQUIPMENT, LUMINAIRES, DEVICES, AND RELATED CONDUIT AND WIRING TO BE REMOVED UNLESS NOTED OTHERWISE.
- 2. ALL DEMOLITION OF THE ELECTRICAL SYSTEM AS NOTED ON THE DEMOLITION DRAWINGS SHALL BE COORDINATED WITH THE RENOVATION REQUIREMENTS TO DETERMINE THIS CONTRACTOR'S WORK.
- 3. IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWING(S) TO INDICATE AREAS IN WHICH ELECTRICAL EQUIPMENT, CONDUIT, LUMINAIRES, DEVICES, ETC. NEED TO BE REMOVED, RELOCATED, OR MODIFIED BY THIS CONTRACTOR TO ALLOW FOR THE RENOVATION PHASE OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS.
- 4. CONTRACTOR SHALL VISIT THE BUILDING, BEFORE SUBMITTING THEIR BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT THEIR WORK.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRED TO ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LUMINAIRES, CONNECTIONS TO MECHANICAL EQUIPMENT, DEVICES, ETC.. PULL OUT ALL UNUSED CONDUCTORS AND CABLES, AND REMOVE ALL ABANDONED CONDUIT. ELECTRICALLY DISCONNECT AIR HANDLING UNITS, PUMPS, BOILERS, AND OTHER SUCH EQUIPMENT FOR REMOVAL BY OTHERS. BACKFEED AS REQUIRED ALL DOWNSTREAM DEVICES WHICH REMAIN. (THE CONTRACTOR SHALL COORDINATE WITH THE OWNER WHICH ITEMS INDICATED TO BE REMOVED & DISCONNECTED SHALL BE SALVAGED AND PRESENTED TO THE OWNER PRIOR TO ANY DISPOSAL OF THESE ITEMS.)
- 6. ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. WHERE WORK CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS INVOLVES THE REMOVAL OF FLUORESCENT LAMPS CONTAINING MERCURY OR CLOTH INSULATED CONDUCTORS, THEY SHALL BE PROPERLY HANDLED AND REMOVED FROM SITE BY APPROVED METHODS PER EPA REGULATIONS.
- 7. ALL EXISTING RECEPTACLES/DATA OUTLETS/DEVICES/EQUIPMENT THAT ARE NOT PART OF DEMOLITION SHALL REMAIN AS IS UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CHECK AND VERIFY FOR CONTINUING OPERATION OF THESE DEVICES PRIOR TO SUBSTANTIAL COMPLETION. IF ANY EXISTING CIRCUITS TO REMAIN ARE INTERRUPTED BY DEMOLITION OR NEW CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT/REMOVAL/REWORKING/MODIFICATION OF CONDUITS AND WIRES INCLUDING EXTENSION, AS REQUIRED TO MAINTAIN FUNCTIONALITY OF DOWNSTREAM RECEPTACLES/DATA OUTLETS/DEVICES/EQUIPMENT.
- 8. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT PHASING AND MAINTAIN EXISTING SYSTEMS ACTIVE IN AREAS WHICH REMAIN OCCUPIED.
- 9. EXISTING CEILING MOUNTED SPEAKERS, PROGRAM BELLS, FIRE ALARM DEVICES, AND SIMILAR ELECTRICAL EQUIPMENT AND DEVICES TO REMAIN SHALL BE EXTENDED AND REINSTALLED AS REQUIRED IN NEW CEILINGS. FIELD VERIFY EXACT QUANTITIES AND REQUIREMENTS.
- 10. SUPPORT ALL CABLING DRAPED OR LYING LOOSE ABOVE EXISTING CEILINGS WHICH ARE SCHEDULED TO BE REMOVED. TIE WRAP CABLING TO JOISTS OR OTHER STRUCTURAL MEMBERS AS REQUIRED. UPON THE COMPLETION OF THE PROJECT, NO CABLING SHALL BE LYING ON ACCESSIBLE CEILINGS.
- 11. WHERE EXISTING DEVICE IS REMOVED FROM WALL WITH NO NEW DEVICE GOING BACK AT SAME LOCATION, PROVIDE BLANK BRUSHED STAINLESS STEEL COVER PLATES AS REQUIRED. COVER PLATES SHALL BE OF PROPER SIZE AND INSTALLED FLUSH WITH WALL.

**GENERAL LIGHTING NOTES:** (APPLICABLE TO ALL SHEETS.)

- 1. THE MINIMUM WIRE SIZE SHALL BE #12 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS SHALL BE 3/4". 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO LUMINAIRES WHERE APPLICABLE. ALL LIGHTING BRANCH CIRCUITS SHALL TERMINATE AT 20A-1P CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS NOTED OTHERWISE.
- 2. PROVIDE LOCK-ON CIRCUIT BREAKER DEVICES FOR ALL EMERGENCY LIGHTING & EXIT SIGN BRANCH CIRCUITS.
- 3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LUMINAIRE LOCATIONS.
- 4. CIRCUIT NUMBER(S), WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
- 5. EMERGENCY BATTERY PACKS SHOWN ARE TO BE CONNECTED TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF LOCAL SWITCH UNLESS NOTED OTHERWISE.
- 6. ALL LAY-IN LUMINAIRES SHALL BE INDEPENDENTLY SUPPORTED AT OPPOSITE CORNERS TO A STRUCTURAL MEMBER.
- 7. PROVIDE PULL BOX(ES) BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.26 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREE TOTAL) BETWEEN PULL POINTS.
- 8. PROVIDE DEDICATED NEUTRAL FOR EACH BRANCH CIRCUIT TO MEET THE REQUIREMENTS OF NEC ARTICLE 210.4(B).
- 9. IN JUNCTION BOXES WHERE CURRENT CARRYING CONDUCTORS ARE SPLICED OR TERMINATED, PROVIDE BOND TO JUNCTION BOX FROM EQUIPMENT GROUNDING CONDUCTOR.



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
125 N. HALSTED STREET, SUITE 301  
CHICAGO, IL 60661  
P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
1216 TOWER ROAD  
SCHAUMBURG, IL 60193  
P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
1391 CORPORATE DRIVE, SUITE  
203 MCHENRY, IL 60050  
P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE**  
**UNIVERSITY CENTER AT MCC**  
222 E CHURCH ST  
WOODSTOCK, ILLINOIS 60098  
DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23

**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:

**ELECTRICAL NOTES**

SHEET NUMBER:

**E5.10**

EXIT SIGN & EMERGENCY LIGHTING SCHEDULE								
SYMBOL	TAG	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE	MANUFACTURER & CATALOG NUMBER	ALTERNATIVE MANUFACTURER	NOTES
	EM1	SELF POWERED EMERGENCY EXIT SIGN, SINGLE FACE, DIE CAST ALUMINUM HOUSING WITH WHITE FINISH AND RED LETTERS, FIELD KNOCKOUT ARROWS AS REQUIRED	TOP OR END MOUNT	LED	UNV	LITHONIA LIGHTING #LQC-W-1-R-ELN	HU DUAL-LITE, SIGNIFY CHLORIDE	I
	EM2	SELF POWERED EMERGENCY EXIT SIGN, SINGLE FACE, DIE CAST ALUMINUM HOUSING WITH WHITE FINISH AND RED LETTERS, FIELD KNOCKOUT ARROWS AS REQUIRED	WALL	LED	UNV	LITHONIA LIGHTING #LQC-W-1-R-ELN	HU DUAL-LITE, SIGNIFY CHLORIDE	I
	EM3	DUAL HEAD EMERGENCY LIGHTING UNIT WITH WHITE CONTEMPORARY THERMOPLASTIC ENCLOSURE	SURFACE/WALL	LED	UNV	LITHONIA LIGHTING #ELMGL-UVOLT-LTP-SDRT	HU DUAL-LITE, SIGNIFY CHLORIDE	I
	EM4	DUAL HEAD EMERGENCY LIGHTING UNIT WITH WHITE CONTEMPORARY THERMOPLASTIC ENCLOSURE	SURFACE/WALL	LED	UNV	LITHONIA LIGHTING #ELMGL-UVOLT-LTP-SDRT	HU DUAL-LITE, SIGNIFY CHLORIDE	I
	EM5	DUAL HEAD EMERGENCY LIGHTING UNIT WITH WHITE CONTEMPORARY THERMOPLASTIC ENCLOSURE AND WEATHER-PROOF REMOTE HEADS	SURFACE/WALL	LED	UNV	LITHONIA LIGHTING #ELMRW-LP220L-DOBTD-X-T	HU DUAL-LITE, SIGNIFY CHLORIDE	I

NOTES:  
1. CONNECT ALL DEVICES TO LOCAL UNSWITCHED NORMAL LIGHTING CIRCUIT.

GENERAL NOTES:  
a. CONTRACTOR TO PROVIDE ALL NECESSARY MOUNTING HARDWARE AND LABOR FOR ALL DEVICES.  
b. BATTERIES SHALL BE CAPABLE OF PROVIDING ILLUMINATION FOR A MINIMUM OF 90 MINUTES.  
c. NOT ALL SYMBOLS WILL BE ACCOMPANIED BY TAGS ON THE FLOOR PLANS FOR CLARITY PURPOSES.

LIGHTING CONTROL DEVICES SCHEDULE					
SYMBOL	TYPE	DESCRIPTION	MOUNTING	MANUFACTURER & CATALOG NUMBER	ACCEPTABLE MANUFACTURERS
		LIGHTING SYSTEM CONTROLLER	WALL	ACUITY nLIGHT #nECY-MVOLT-ENC	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osA	STANDARD RANGE 360°, LOW VOLTAGE, PASSIVE INFRARED	CEILING	ACUITY nLIGHT #nCM-9-RJB	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osB	EXTENDED RANGE 360°, LOW VOLTAGE, PASSIVE INFRARED	CEILING	ACUITY nLIGHT #nCM-10-RJB	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osC	STANDARD RANGE 360°, LOW VOLTAGE, DUAL TECHNOLOGY	CEILING	ACUITY nLIGHT #nCM-PDT-9-RJB	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osD	EXTENDED RANGE 360°, LOW VOLTAGE, DUAL TECHNOLOGY	CEILING	ACUITY nLIGHT #nCM-PDT-10-RJB	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osE	WIDE VIEW, CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY WITH W/ BRACKET	CEILING	ACUITY nLIGHT #nWV-PDT-16-KIT	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osF	HIGH BAY RANGE 360°, LOW VOLTAGE, PASSIVE INFRARED	CEILING	ACUITY nLIGHT #nCM-6-RJB	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osG	ONOFF/DIM WALL SWITCH SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY	WALL	ACUITY nLIGHT #nWSXA-PDT-LV-DX	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	sa	ONOFF PUSHBUTTON CONTROL STATION	WALL	ACUITY nLIGHT #nPODMA	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	sb	ONOFF/DIM PUSHBUTTON CONTROL STATION	WALL	ACUITY nLIGHT #nPODMA-DX	HUBBELL LIGHTING CONTROLS, WATTSTOPPER

GENERAL NOTES:  
a. ALL SENSOR LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.  
b. ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX FEET FROM HVAC SUPPLY/RETURN VENTS.  
c. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY & TIME DELAY SETTINGS (FOR NON-ADAPTIVE PRODUCTS) RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH IN RESPECT TO POWER PLACEMENT.  
d. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS:  
• ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT TO BE CONTROLLED.  
• ONE POWER PACK IS REQUIRED FOR EACH ZONE.  
• IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SENSOR, AN AUXILIARY RELAY CAN BE USED IN CONJUNCTION WITH THE POWER PACK.  
• THE MAXIMUM NUMBER OF SENSORS THAT CAN BE PUT ON A POWER PACK IS TO BE REDUCED BY ONE FOR EACH SLAVE PACK USED.  
e. MOUNT CONTROL UNITS WITHIN JUNCTION BOXES INSTALLED PER ALL CODE REQUIREMENTS.  
f. CONTROL WIRING BETWEEN SENSORS AND CONTROLS UNITS SHALL BE CLASS II, 18-24 AWG, STRANDED UL CLASSIFIED. ALL CONTROL CABLING SHALL BE PLENUM-RATED.  
g. SENSORS MOUNTED OVER THE DOOR MUST BE PLACED ONE FOOT INSIDE THE THRESHOLD.  
h. SENSOR PLACEMENT ON PLANS IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR ENGAGING A MANUFACTURER TO PRODUCE A MOTION SENSOR LAYOUT THAT IS COMPLIANT WITH THE GOVERNING ENERGY CODE.  
i. CONTRACTOR IS RESPONSIBLE FOR ENSURING MOTION CONTROL OF ALL LOCATIONS SHOWN ON PLAN.  
j. CONTRACTOR IS RESPONSIBLE FOR INSTALLING EQUIPMENT IN COMPLIANCE WITH LOCAL CODE.  
k. PRODUCTS FROM SPECIFIED AND ACCEPTABLE MANUFACTURERS SHALL PROVIDE SAME LEVEL OF CONTROL.

LIGHTING CONTROL SEQUENCE OF OPERATION													
	OCCUPANCY SENSOR				PHOTOSENSOR		SWITCH TYPE		TIME CLOCK		NOTES		
	VACANCY MODE	OCCUPANCY MODE	SENSOR TIMEOUT PERIOD (MINUTES)	OCCUPIED LEVEL %	UNOCCUPIED LEVEL %	SWITCHING (ON/OFF)	DIMMING	TARGET LIGHT LEVEL (FC)	MANUAL (ON/OFF)	MANUAL (ON/OFF/DIM)		KEY SWITCH	SCHEDULED ON AT
TYPICAL CLASSROOM	X		20 MIN							X			
TYPICAL OFFICE	X		20 MIN							X			
TYPICAL STORAGE / MECHANICAL / ELECTRICAL	X		20 MIN						X				
TYPICAL RESTROOMS	X		20 MIN	100	0				X				
CORRIDOR	X		20 MIN	100	0				X				I
CORRIDOR - NIGHT LIGHTS	X		20 MIN	100	50				X				I
EXTERIOR LIGHTS						X						DUSK - 60MIN	DAWN + 60MIN

NOTES:  
1. REFER TO LIGHTING PLANS FOR ADDITIONAL CONTROL SEQUENCE NOTES.

LUMINAIRE SCHEDULE								
TYPE	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE	INPUT WATTS	MANUFACTURER & CATALOG NUMBER	ALTERNATE MANUFACTURER	NOTES
F1	2X4' LED TROFFER, 4000 NOMINAL LUMENS	RECESSED	LED	120 V	30.5	LITHONIA LIGHTING #2BLT4-40L-ADF-GZ10-LP840	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	I
F1A	2X4' LED TROFFER, 4800 NOMINAL LUMENS	RECESSED	LED	120 V	39.3	LITHONIA LIGHTING #2BLT4-40L-ADF-GZ10-LP840	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	I
F1B	2X4' LED TROFFER, 6000 NOMINAL LUMENS	RECESSED	LED	120 V	46.6	LITHONIA LIGHTING #2BLT4-40L-ADF-GZ10-LP840	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	I
F1C	2X4' LED TROFFER, 7200 NOMINAL LUMENS	RECESSED	LED	120 V	59.2	LITHONIA LIGHTING #2BLT4-72L-ADF-GZ10-LP840	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	I
F2	2X2' LED TROFFER, 3300 NOMINAL LUMENS	RECESSED	LED	120 V	26.5	LITHONIA LIGHTING #2BLT2-33L-ADF-GZ10-LP840	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	I
F2A	2X2' LED TROFFER, 4000 NOMINAL LUMENS	RECESSED	LED	120 V	31	LITHONIA LIGHTING #2BLT2-40L-ADF-GZ10-LP840	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	I
F3	4' SQUARE LED DOWNLIGHT, 1000 NOMINAL LUMENS	RECESSED	LED	120 V	10.6	LITHONIA LIGHTING #LDN4SQ-40/10-L54-WR-MVOLT-GZ10	HU PRESCOLITE, SIGNIFY LIGHTQUIER	I
F3A	4' SQUARE LED DOWNLIGHT, 2000 NOMINAL LUMENS	RECESSED	LED	120 V	22.8	LITHONIA LIGHTING #LDN4SQ-40/20-L54-WR-MVOLT-GZ10	HU PRESCOLITE, SIGNIFY LIGHTQUIER	I
F4-8	8'-0" LONG LINEAR LED	RECESSED	LED	120 V	37.4	MARK LIGHTING #SL4L-LOP-8FT-FLP-TG-80CRI-40K-600LMF-120	HU LITECONTROL, SIGNIFY LEDALITE	I
F5-7	7'-0" LONG LINEAR SUSPENDED LED	SUSPENDED	LED	120 V	32.8	MARK LIGHTING #S4PD-LP-7FT-MSL7-80CRI-40K-600LMF-SCT-MIN I O-FL-MVOLT-WHTT-ZT-F272A-RDCY-BLKCY-BCRD-MCS	HU LITECONTROL, SIGNIFY LEDALITE	1,2
F5-12	12'-0" LONG LINEAR SUSPENDED LED	SUSPENDED	LED	120 V	56.2	MARK LIGHTING #S4PD-LP-12FT-MSL6-80CRI-40K-600LMF-SCT-MIN I O-FL-MVOLT-WHTT-ZT-F272A-RDCY-BLKCY-BCRD-MCS	HU LITECONTROL, SIGNIFY LEDALITE	1,2
F5-12-NL	12'-0" LONG LINEAR SUSPENDED LED WITH NIGHT LIGHT SECTION	SUSPENDED	LED	120 V	56.2	MARK LIGHTING #S4PD-LP-12FT-MSL6-80CRI-40K-600LMF-SCT-MIN I O-FL-MVOLT-WHTT-1-EC-ZT-F272A-RDCY-BLKCY-BCRD-MCS	HU LITECONTROL, SIGNIFY LEDALITE	1,2
F6	4' LED STRIP LIGHT	SURFACE/PENDANT	LED	120 V	31.8	LITHONIA LIGHTING #CLX-L48-5000LM-SEF-RDL-MVOLT-GZ10-40K-80CRI-WH	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	-
F7	6" ROUND RETROFIT LED DOWNLIGHT	SURFACE	LED	120 V	19	LITHONIA LIGHTING #LBRG-ALO2-SHW1-WR-W-MVOLT-UGZ	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	I
F8A	6x20' CUSTOM LINEAR LED	SURFACE	LED	120 V	288.6	AXIS LIGHTING #SCSPAT-R(6x20)-500-80-40-FL-NL-W-UNV-DP-1-5B15	FOCAL POINT, LUMENWERX	1,3
F8B	8x20' CUSTOM LINEAR LED	SURFACE	LED	120 V	310.8	AXIS LIGHTING #SCSPAT-R(8x20)-500-80-40-FL-NL-W-UNV-DP-1-5B15	FOCAL POINT, LUMENWERX	1,3
F8C	4x14' CUSTOM LINEAR LED	SURFACE	LED	120 V	199.8	AXIS LIGHTING #SCSPAT-R(4x14)-500-80-40-FL-NL-W-UNV-DP-1-5B15	FOCAL POINT, LUMENWERX	1,3
F9	6" ROUND PENDANT LED DOWNLIGHT	PENDANT	LED	120 V	14.7	MARK LIGHTING #EVG6PC-40/15-WR-MD-MVOLT-GZ10-JBX-PCAN-512-DBL	HU PRESCOLITE, SIGNIFY LIGHTQUIER	1,2
F10-20	20'-0" LONG DIRECT/INDIRECT LINEAR LED	SUSPENDED	LED	120 V	113.8	MARK LIGHTING #S4PID-LP-20FT-MSL4-80CRI-40K-400LMF-DBW-180CRI-140K-1800LMF-BW-SCT-MIN I O-FL-DC-MVOLT-WHTT-F1/72A-RDCY-WHTCY-WCRD-MCS	HU LITECONTROL, SIGNIFY LEDALITE	1,2
F10A-6	6'-0" LONG DIRECT/INDIRECT LINEAR LED	SUSPENDED	LED	120 V	67.1	MARK LIGHTING #S4PID-LP-6FT-MSL6-80CRI-80CRI-40K-800LMF-DBW-180CRI-140K-1800LMF-BW-SCT-MIN I O-FL-DC-MVOLT-WHTT-F1/72A-RDCY-WHTCY-WCRD-MCS	HU LITECONTROL, SIGNIFY LEDALITE	1,2
F11	LINEAR DECORATIVE LED PENDANT	PENDANT	LED	120 V	11	OCL #G51-P1CF-30-CR-(FINISH)-LED1-40K-UNV-144-DM1	-	1,2
F12	ROUND DECORATIVE LED PENDANT	PENDANT	LED	120 V	43	STRUCTURA #AURA-OVAL-D-3.5-L40-HO-(FINISH)-CEI-STD	-	1,2
F13	CIRCULAR LED PENDANT	PENDANT	LED	120 V	65	DELRAY LIGHTING #L793-(FINISH)-(FINISH)-W40-M-I-D-CM I (LENGTH)	-	1,2
F14	4'-0" LONG LINEAR LED WITH POP-DOWN LENS	SURFACE	LED	120 V	51	FOCAL POINT #FSM4LS-PD15-1-000LF-40K-1-C-UNV-LD1-SM-(FINISH)-4'	AXIS LIGHTING, LUMENWERX	-
F15	DECORATIVE LED PENDANT	PENDANT	LED	120 V	75	CERCHIO LIGHTING #10148.E12.(FINISH)	-	1,2
F16A	6'-10" LONG DIRECT LINEAR LED WITH ACOUSTIC PANEL	SUSPENDED	LED	120 V	30.7	FOCAL POINT #ASM2S-RL-12-500LF-40K-1-C-UNV-LD1-J96BK-DTS-6FT10IN	-	1,2,4
F16B	7'-2" LONG DIRECT LINEAR LED WITH ACOUSTIC PANEL	SUSPENDED	LED	120 V	32.3	FOCAL POINT #ASM2S-RL-12-500LF-40K-1-C-UNV-LD1-J96BK-DTS-7FT2IN	-	1,2,4
F16C	7'-9" LONG DIRECT LINEAR LED WITH ACOUSTIC PANEL	SUSPENDED	LED	120 V	34.9	FOCAL POINT #ASM2S-RL-12-500LF-40K-1-C-UNV-LD1-J96BK-DTS-7FT9IN	-	1,2,4
F16D	8'-7" LONG DIRECT LINEAR LED WITH ACOUSTIC PANEL	SUSPENDED	LED	120 V	38.6	FOCAL POINT #ASM2S-RL-12-500LF-40K-1-C-UNV-LD1-J96BK-DTS-8FT7IN	-	1,2,4
F16E	8'-9" LONG DIRECT LINEAR LED WITH ACOUSTIC PANEL	SUSPENDED	LED	120 V	39.4	FOCAL POINT #ASM2S-RL-12-500LF-40K-1-C-UNV-LD1-J96BK-DTS-8FT9IN	-	1,2,4
F16F	9'-3" LONG DIRECT LINEAR LED WITH ACOUSTIC PANEL	SUSPENDED	LED	120 V	41.6	FOCAL POINT #ASM2S-RL-12-500LF-40K-1-C-UNV-LD1-J96BK-DTS-9FT3IN	-	1,2,4
F17	4'-0" LONG LINEAR LED	RECESSED	LED	120 V	37	FOCAL POINT #FSM4L-FL1-000LF-40K-1-C-UNV-LD1-G1-WH-4FT0IN	AXIS LIGHTING, LUMENWERX	I

NOTES:  
1. CONTRACTOR TO PROVIDE ALL OPTIONS AND ACCESSORIES AS REQUIRED TO INSTALL LUMINAIRE IN VARYING CEILING TYPES AS SHOWN ON THE PLANS.  
2. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT SUSPENSION LENGTHS.  
3. INCLUDE ALL CONNECTORS AND JOINT TO MATCH THE PATTERN/SHAPE SHOWN ON PLANS.  
4. REFER TO ARCHITECTURAL RCP PLANS FOR EXACT LENGTH OF LUMINAIRE REQUIRED.

GENERAL NOTES:  
a. CONTRACTOR TO PROVIDE NECESSARY MOUNTING HARDWARE AND LABOR FOR LUMINAIRES.  
b. LAY IN CEILING GRID LUMINAIRES SHALL BE FOR USE WITH STANDARD 15/16" GRID SYSTEM.  
c. CEILING TYPES, FINISHES AND HEIGHTS MAY VARY. SEE ARCHITECTURAL RCP PLANS FOR MORE INFO. CONTRACTOR TO COORDINATE & PROVIDE PROPER MOUNTING HARDWARE, FLANGE, AND ACCESSORIES AS REQUIRED.  
d. ALL FINISH COLORS AND COLOR TEMPERATURES TO BE CONFIRMED BY THE ARCHITECT.



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FF-T-ENGINEERS  
**2019 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60193  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE**  
**UNIVERSITY CENTER AT MCC**  
 222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION	DATE

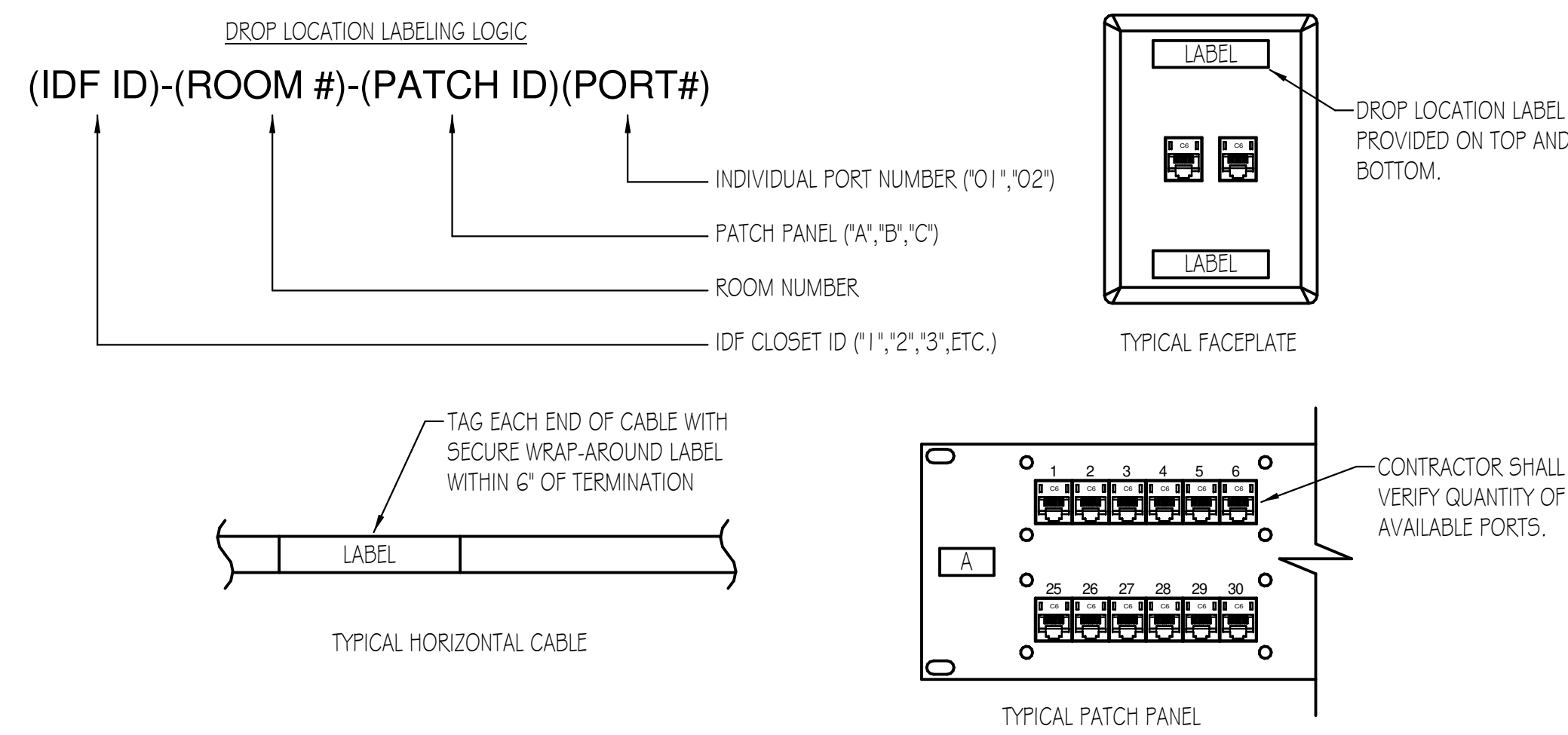
SHEET TITLE:  
**ELECTRICAL SCHEDULES**

SHEET NUMBER:  
**E6.00**



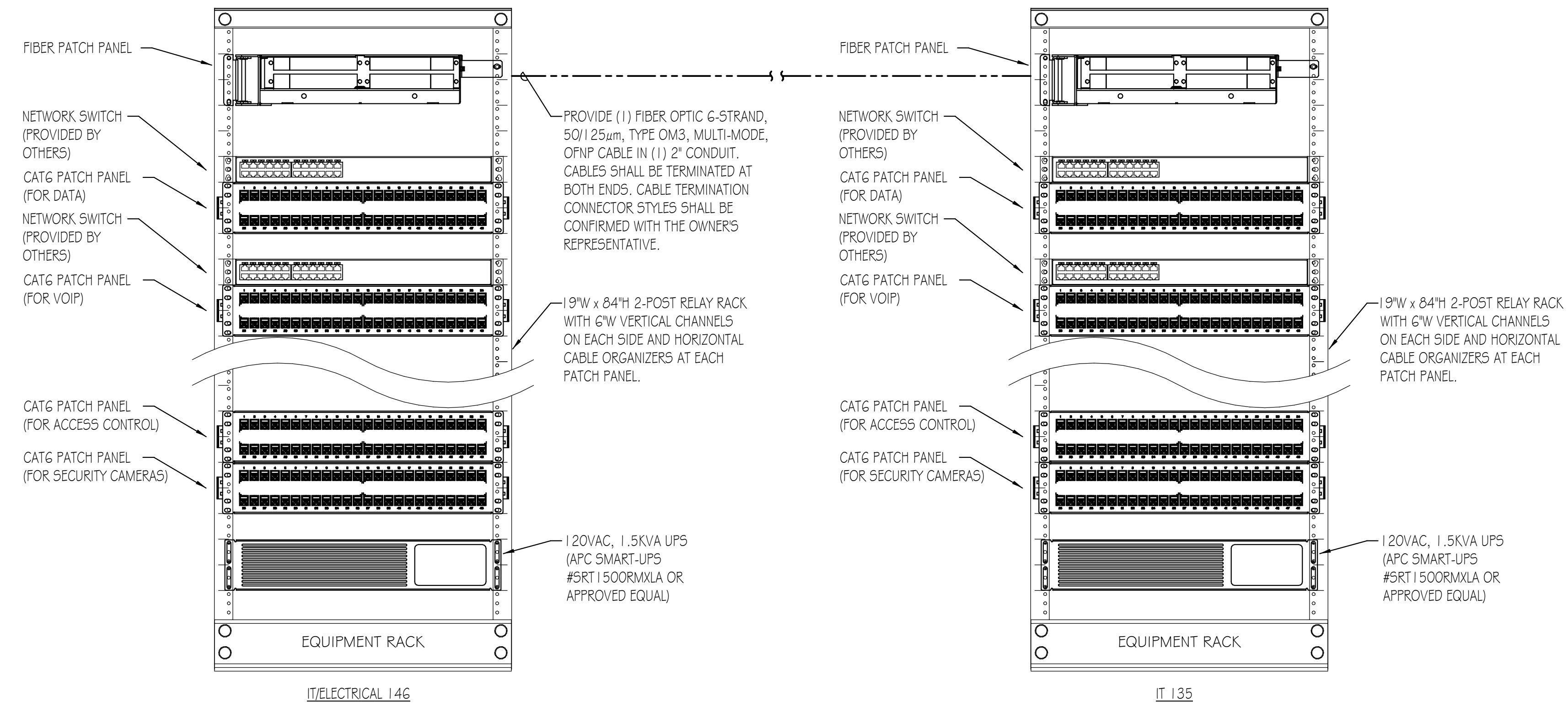






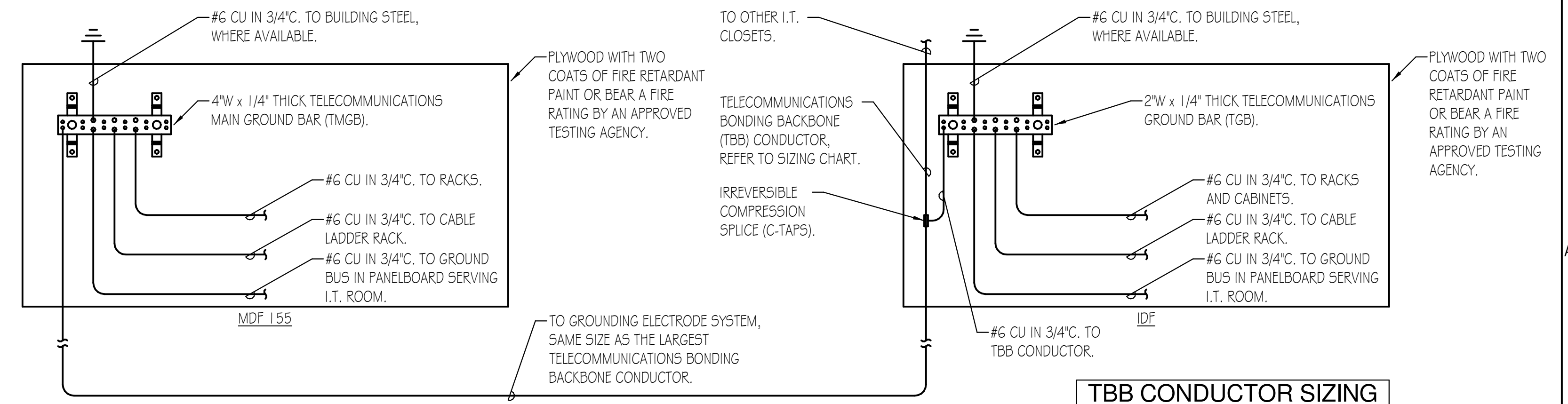
**NOTE**  
 EACH HORIZONTAL CABLE TERMINATION SHALL HAVE DEDICATED IDENTIFICATION. ALL LABELING MUST BE DONE WITH MECHANICAL LABEL MAKER, UTILIZING SCHEME AND METHODS ILLUSTRATED ABOVE. NO HAND-LETTERING PERMISSIBLE. ALL LABELS TO FEATURE BLACK TEXT ON WHITE BACKGROUND.

**DATA CABLE LABELING DETAIL**  
 NO SCALE



**TYPICAL NETWORK RACK DETAIL**  
 NO SCALE

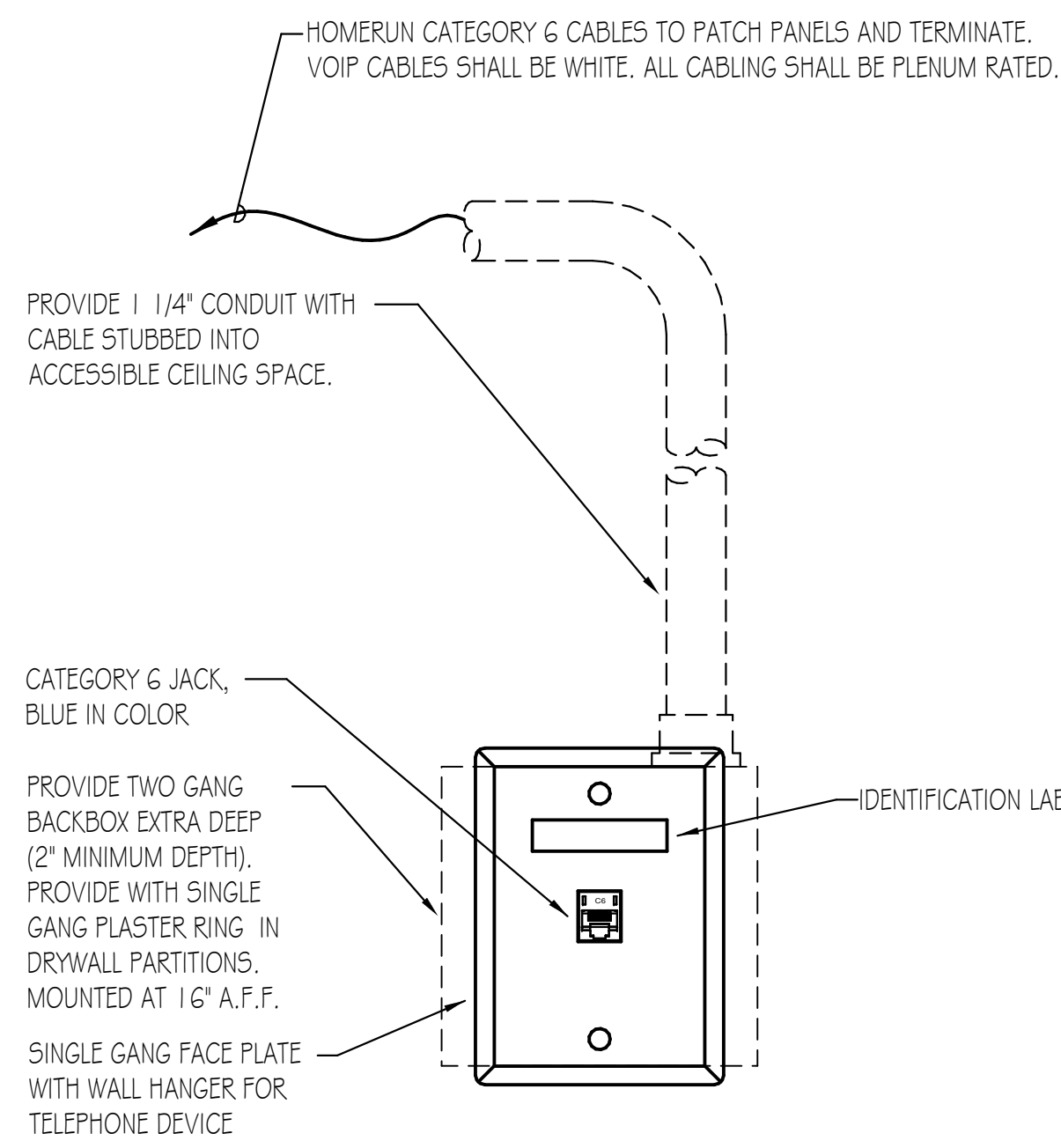
- NOTES:**
- PROVIDE QUANTITY OF PATCH PANELS AS REQUIRED TO SUPPORT THE QUANTITY OF DATA OUTLETS OR DEVICES INDICATED ON THE PLANS.
  - CONTRACTOR SHALL COORDINATE TELECOMMUNICATION INSTALLATION WITH OWNER'S REPRESENTATIVE. INCLUDE PRE-CONSTRUCTION MEETING WITH OWNER'S REPRESENTATIVE TO GO OVER EXPECTATIONS, STANDARDS AND ADDITIONAL DETAILS PRIOR TO COMMENCEMENT OF WORK.
  - CONFIRM FIBER OPTIC TERMINATION REQUIREMENTS WITH OWNER'S REPRESENTATIVE.



DISTANCE (FEET)	TBB SIZE (AWG)
< 13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	3/0
67-84	4/0
85-105	250 KCMIL
106-125	300 KCMIL
126-150	350 KCMIL
151-175	500 KCMIL
176-250	600 KCMIL
251-300	750 KCMIL
> 301	

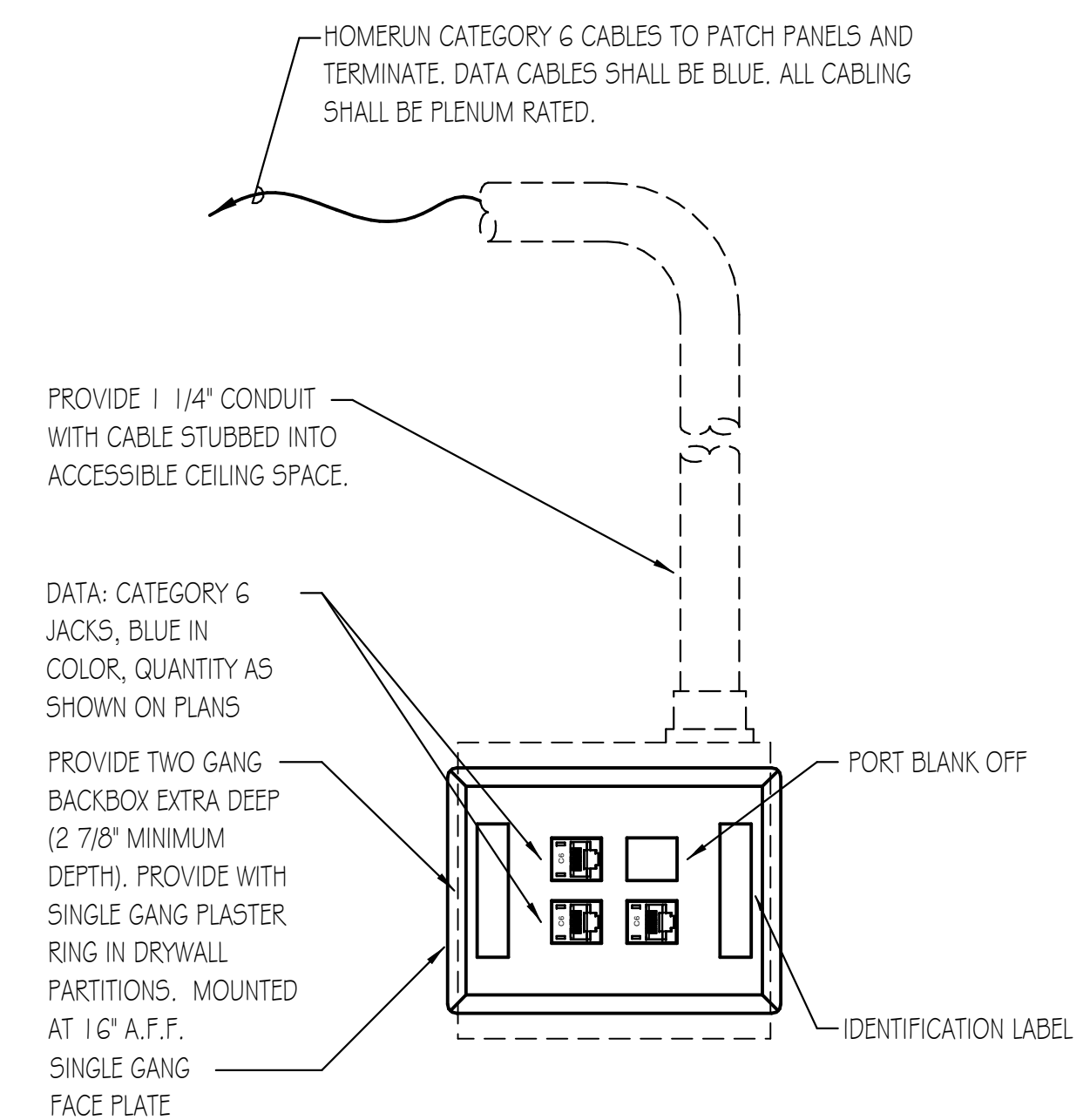
**TELECOMMUNICATIONS GROUNDING DETAIL**  
 NO SCALE

- NOTES:**
- UTILIZE EXOTHERMIC WELD OR IRREVERSIBLE COMPRESSION TYPE CONNECTION FOR BOND TO TELECOMMUNICATION GROUND BAR.
  - INSTALLATIONS SHALL CONFORM TO GUIDELINES DEFINED IN ANSIVIA-607B.



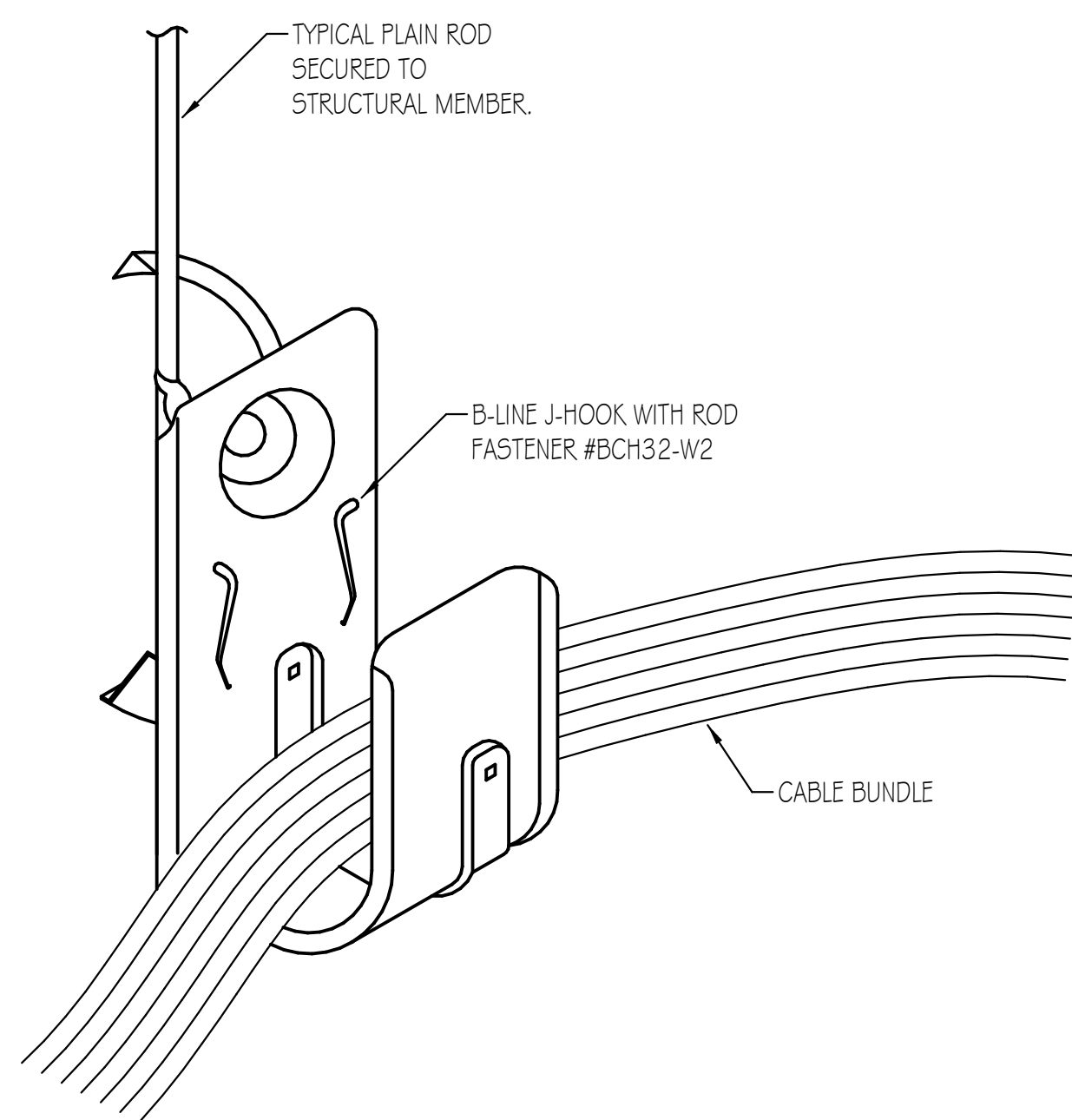
**TYPICAL COMMUNICATION OUTLET DETAIL**  
 NO SCALE

- NOTES:**
- PROVIDE MACHINE MADE IDENTIFICATION LABELS FOR EACH LOW VOLTAGE OUTLET. VERIFY EXACT REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
  - ALL CABLE SHALL BE A MINIMUM OF CATEGORY 6 UNLESS INDICATED OTHERWISE.
  - LABEL EACH DATA JACK WITH THE IDF CLOSET AND PATCH PORT NUMBER.
  - PROVIDE QUANTITY OF CABLES AND JACKS AS INDICATED ON PLANS.



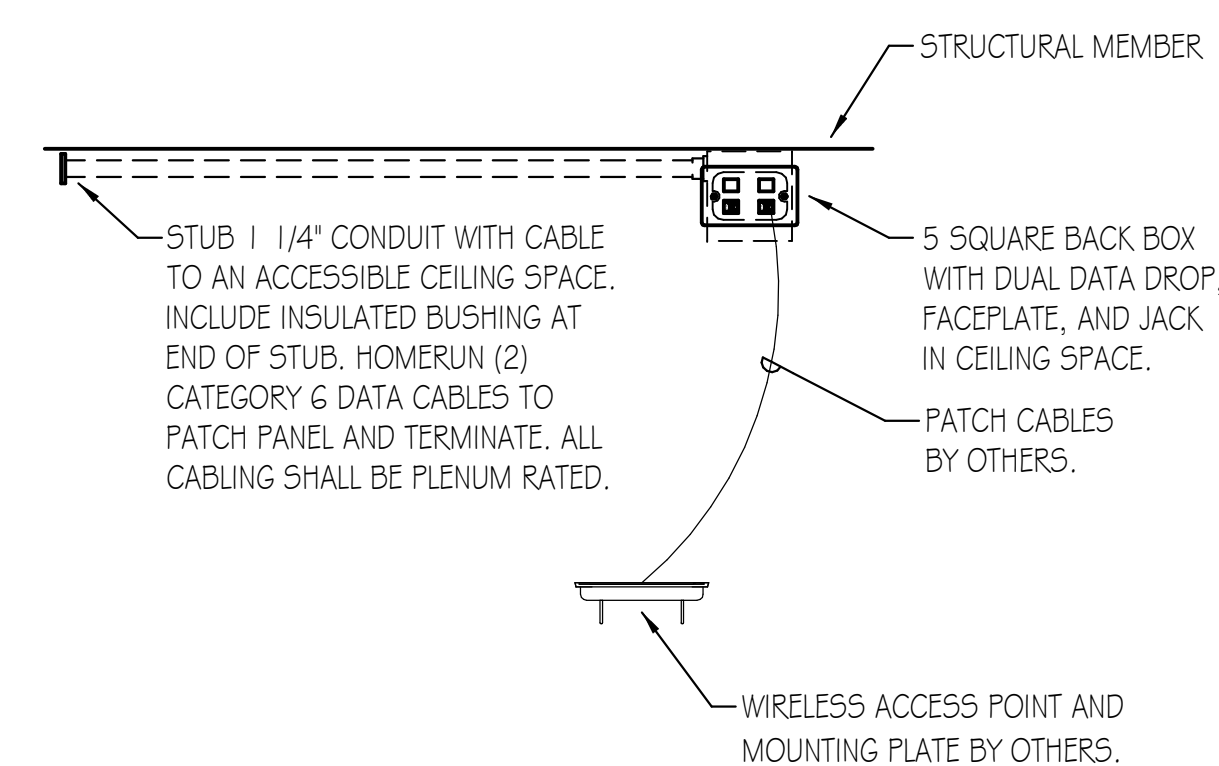
**TYPICAL COMMUNICATION OUTLET DETAIL**  
 NO SCALE

- NOTES:**
- PROVIDE MACHINE MADE IDENTIFICATION LABELS FOR EACH LOW VOLTAGE OUTLET. VERIFY EXACT REQUIREMENTS WITH OWNER'S REPRESENTATIVE.
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  - LABEL EACH DATA JACK WITH THE IDF CLOSET AND PATCH PORT NUMBER.
  - PROVIDE QUANTITY OF CABLES AND JACKS AS INDICATED ON PLANS.



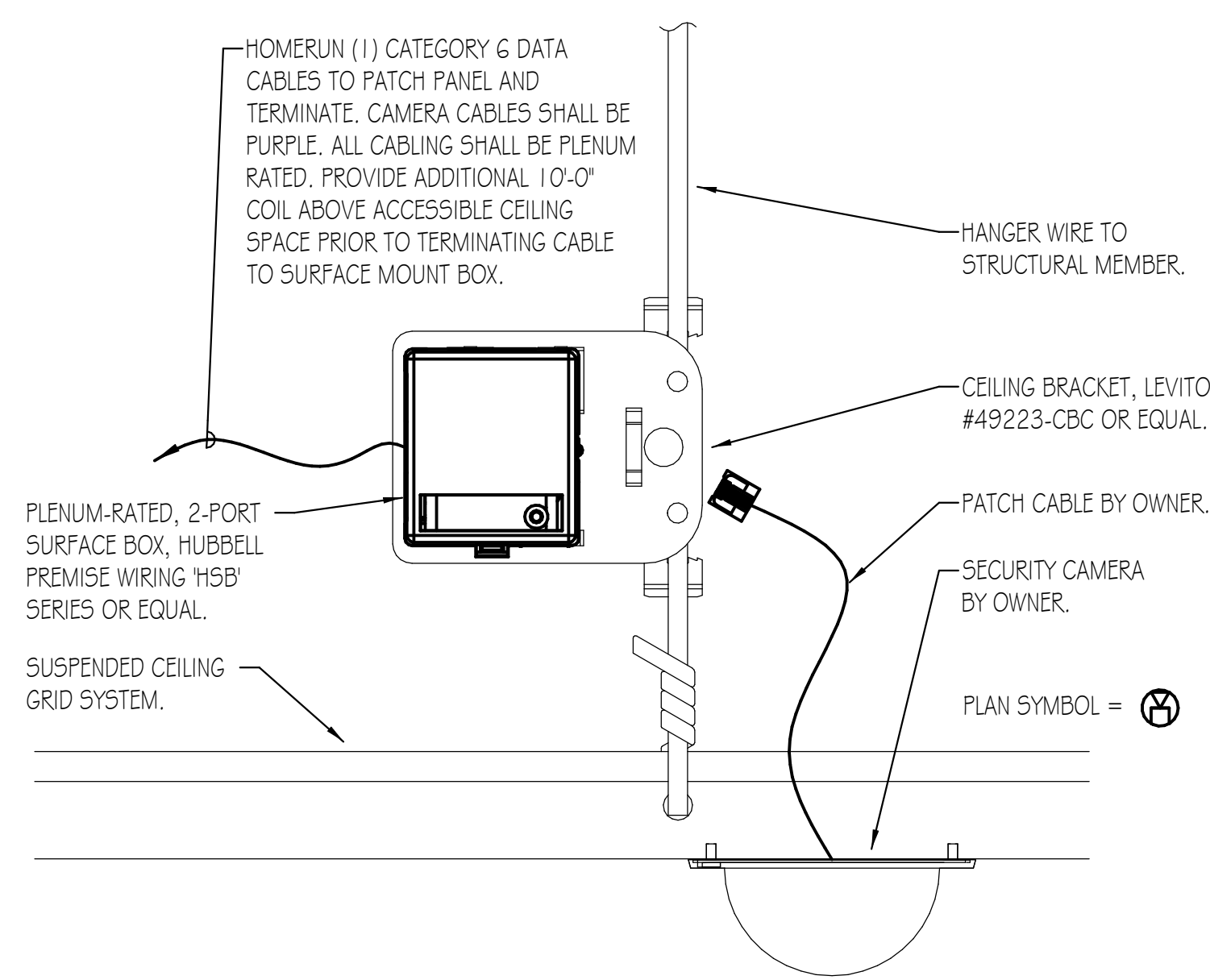
**CABLE BUNDLE SUPPORT DETAIL**  
 NO SCALE

- NOTES:**
- APPLICABLE ONLY FOR LOW VOLTAGE CABLES ROUTED IN ACCESSIBLE CEILING SPACES.



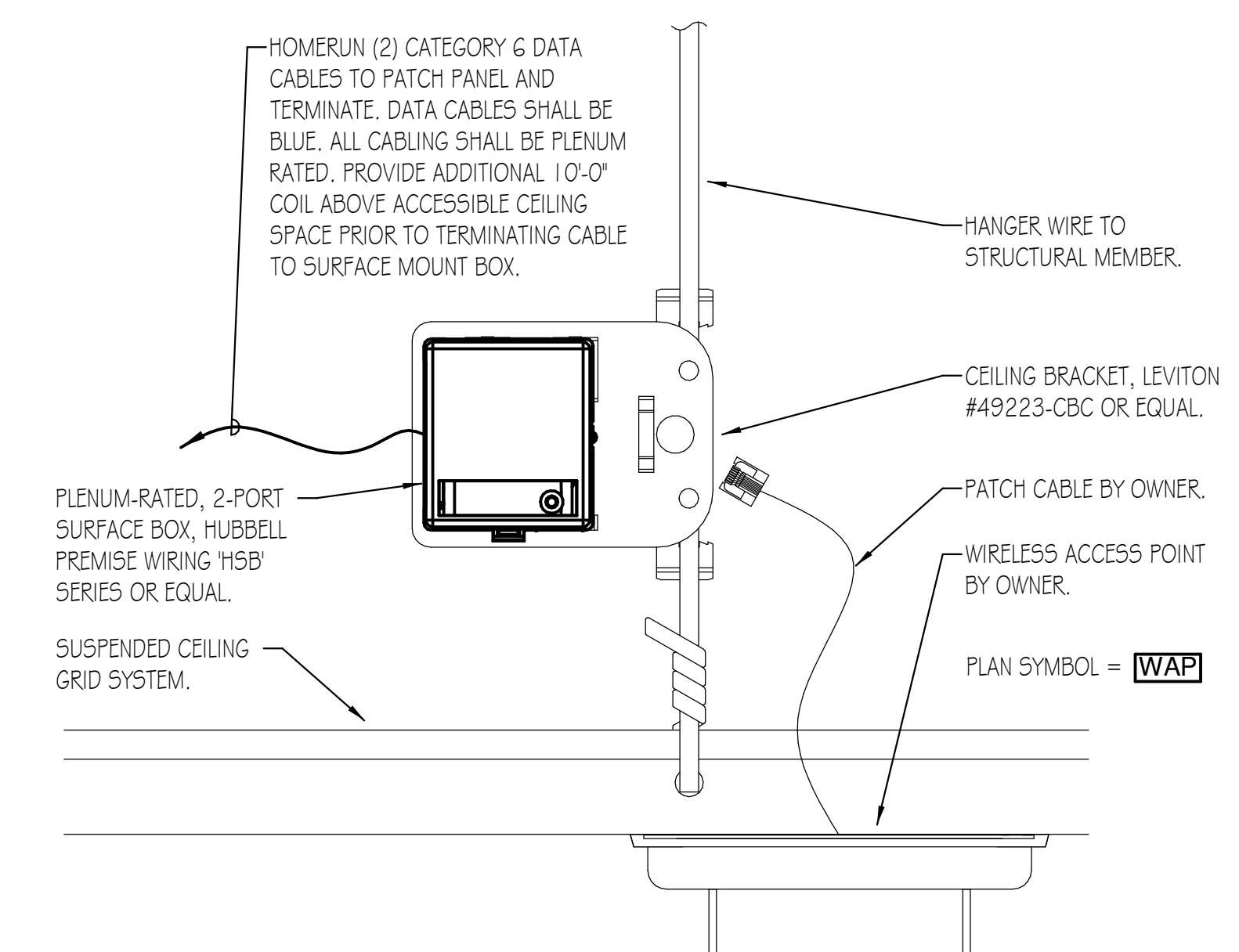
**WIRELESS ACCESS POINT DETAIL**  
 NO SCALE

- NOTES:**
- SUPPORT SURFACE MOUNT BOX TO A STRUCTURAL MEMBER.
  - COORDINATE FINAL OUTLET AND ACCESS POINT LOCATION WITH OWNER'S REPRESENTATIVE.
  - APPLICABLE ONLY FOR DEVICES LOCATED IN SPACES WITH NO CEILING SYSTEMS.



**SECURITY CAMERA DETAIL**  
 NO SCALE

- NOTES:**
- SUPPORT SURFACE MOUNT BOX TO A STRUCTURAL MEMBER.
  - COORDINATE FINAL OUTLET AND CAMERA LOCATION WITH OWNER'S REPRESENTATIVE.
  - APPLICABLE ONLY FOR DEVICES LOCATED ON ACOUSTICAL CEILING TILES.



**WIRELESS ACCESS POINT DETAIL**  
 NO SCALE

- NOTES:**
- SUPPORT SURFACE MOUNT BOX TO A STRUCTURAL MEMBER.
  - COORDINATE FINAL OUTLET AND ACCESS POINT LOCATION WITH OWNER'S REPRESENTATIVE.
  - APPLICABLE ONLY FOR DEVICES LOCATED ON ACOUSTICAL CEILING TILES.



ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE**  
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222 E CHURCH ST  
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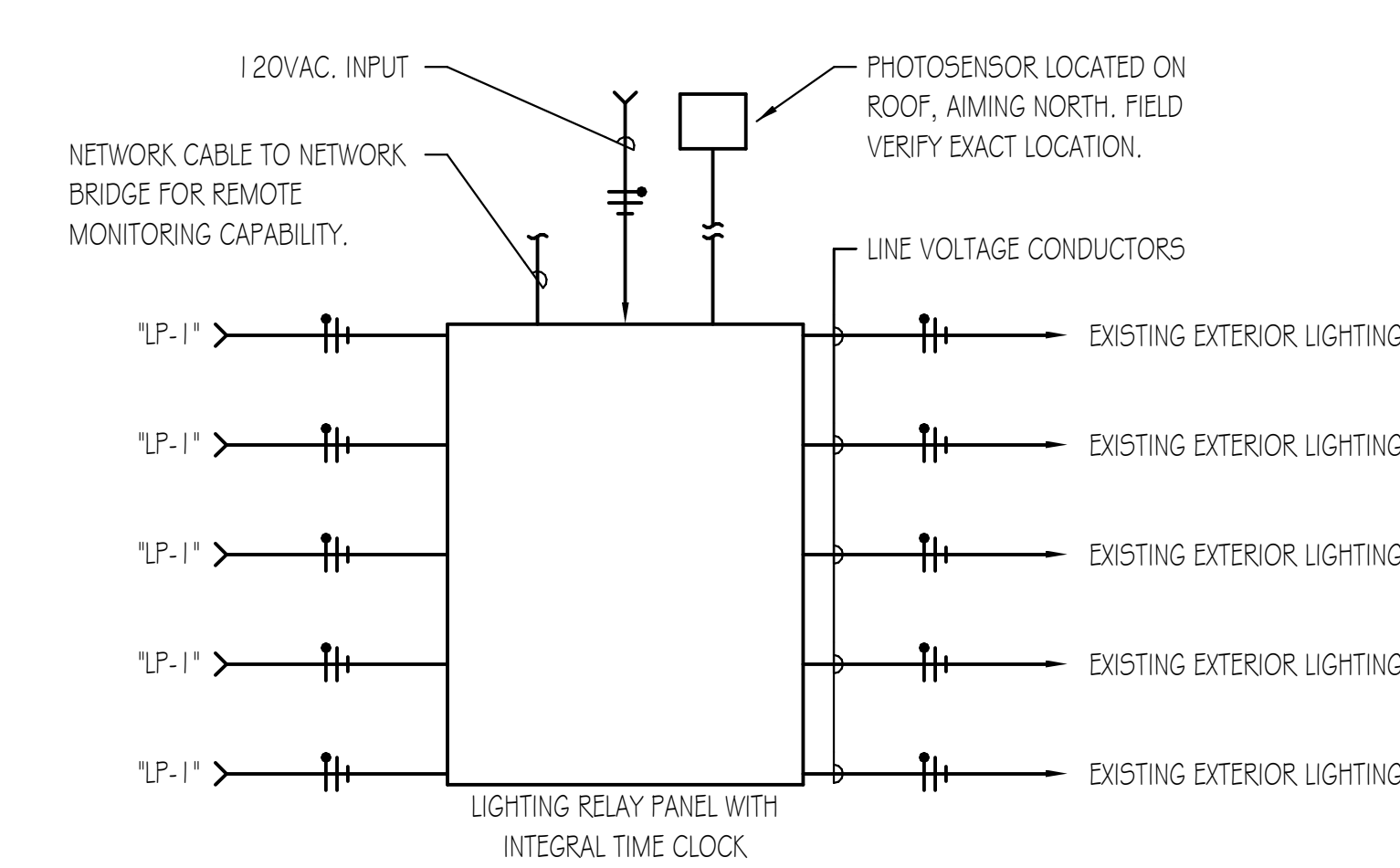
KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

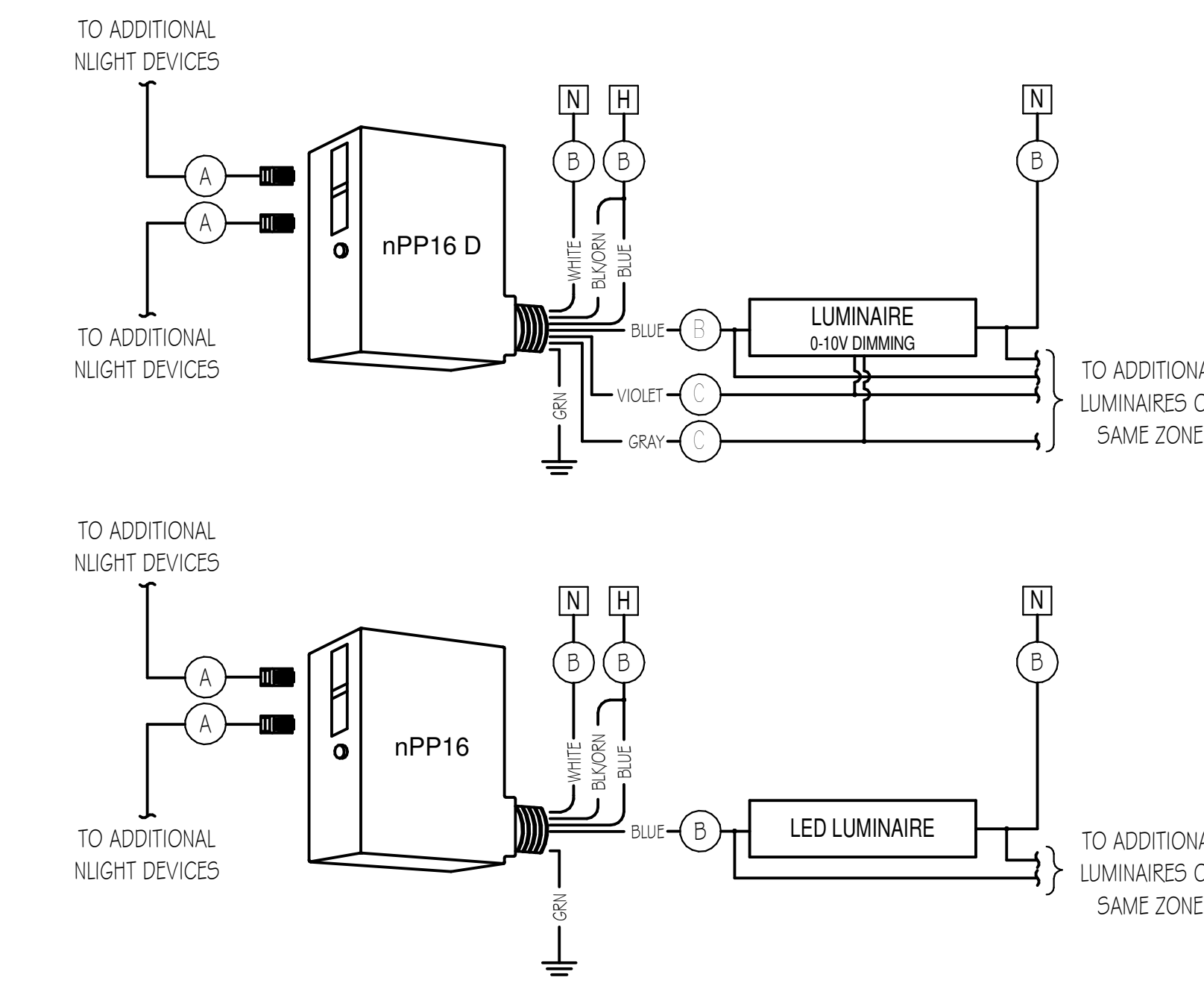
NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**ELECTRICAL DETAILS**

SHEET NUMBER:  
**E7.10**

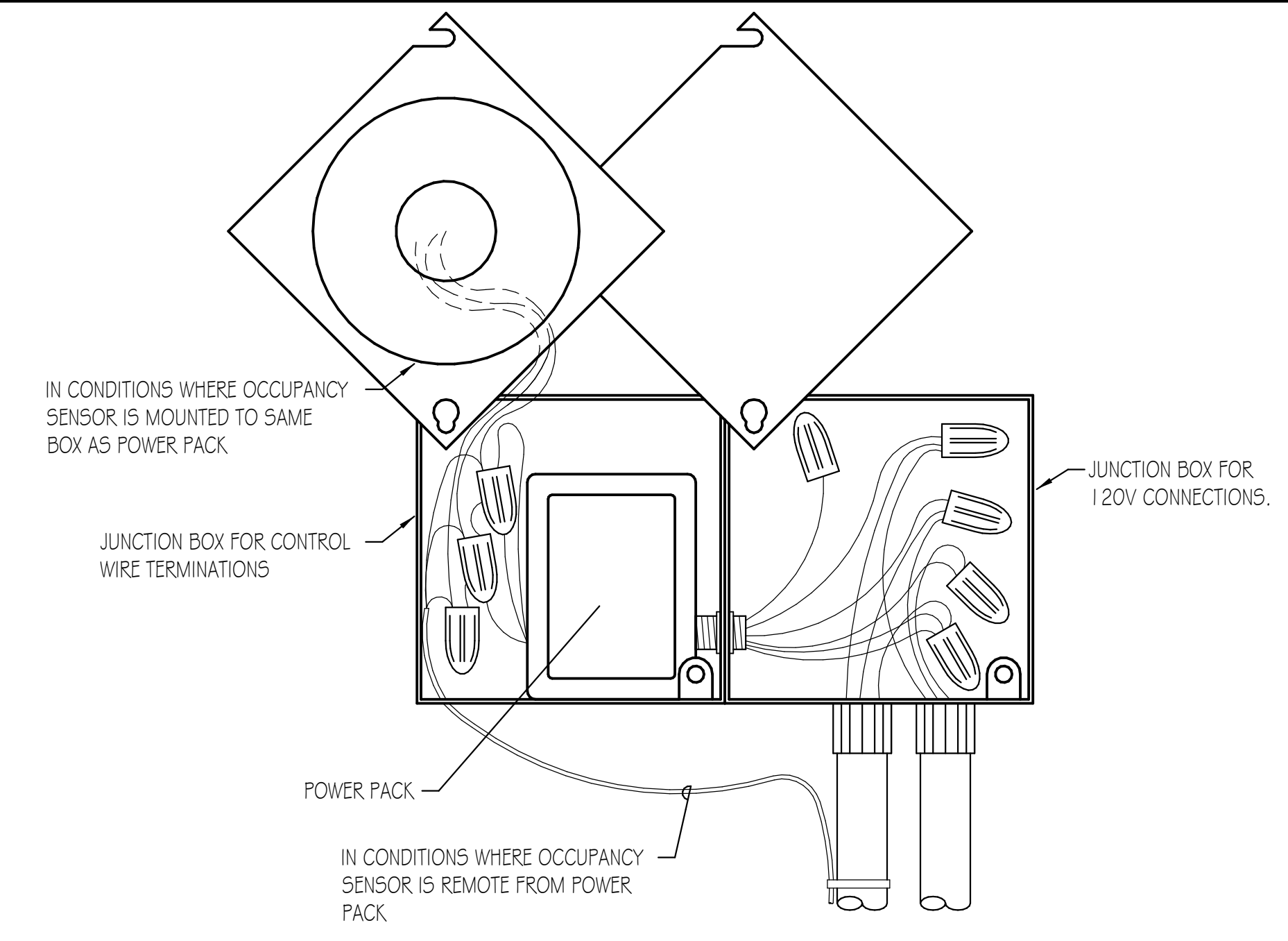


**EXTERIOR LIGHTING CONTROL SCHEMATIC DIAGRAM**  
 NO SCALE

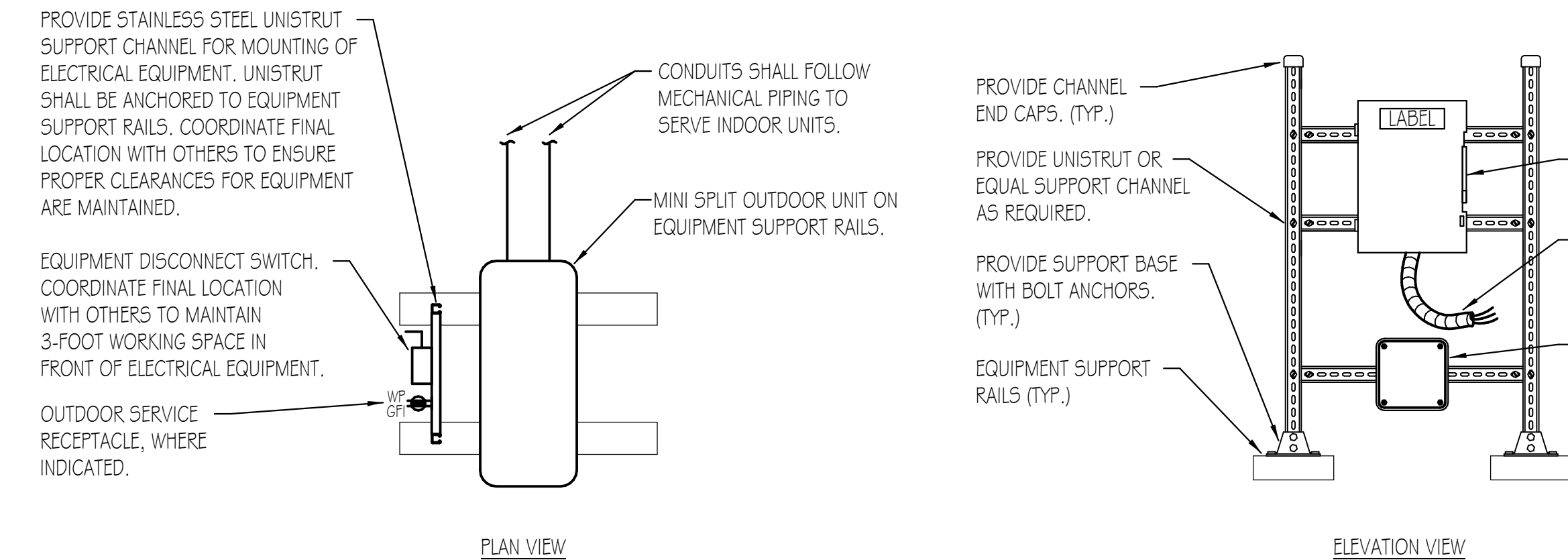


**TYPICAL POWER PACK WIRING DIAGRAM**  
 NO SCALE

NOTES:  
 1. DETAIL FOR REFERENCE ONLY FOR BASIS OF DESIGN. REFER TO MANUFACTURER'S WIRING DIAGRAMS IF ALTERNATE MANUFACTURER IS USED.

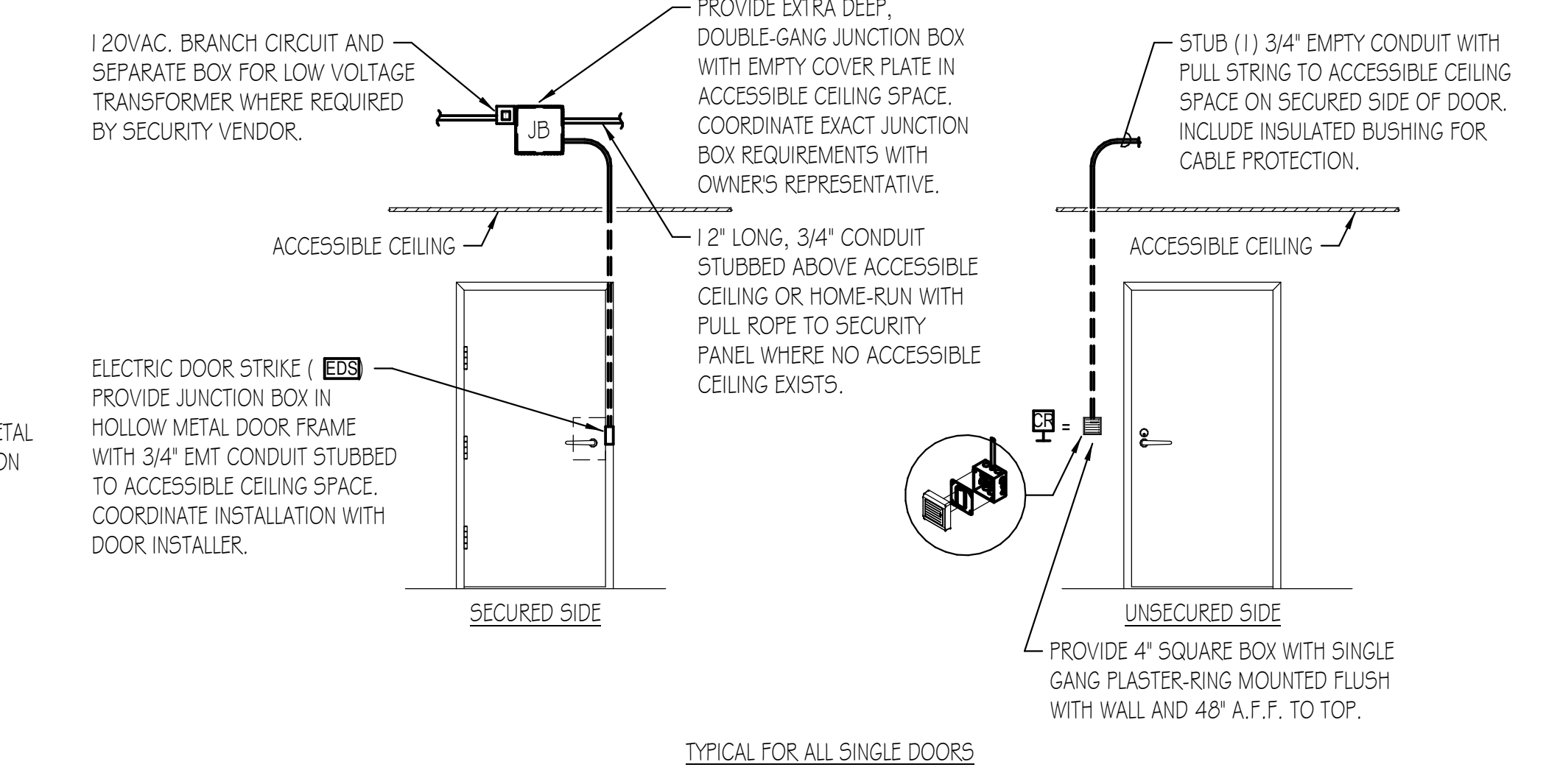


**OCCUPANCY SENSOR POWER PACK DETAIL**  
 NO SCALE



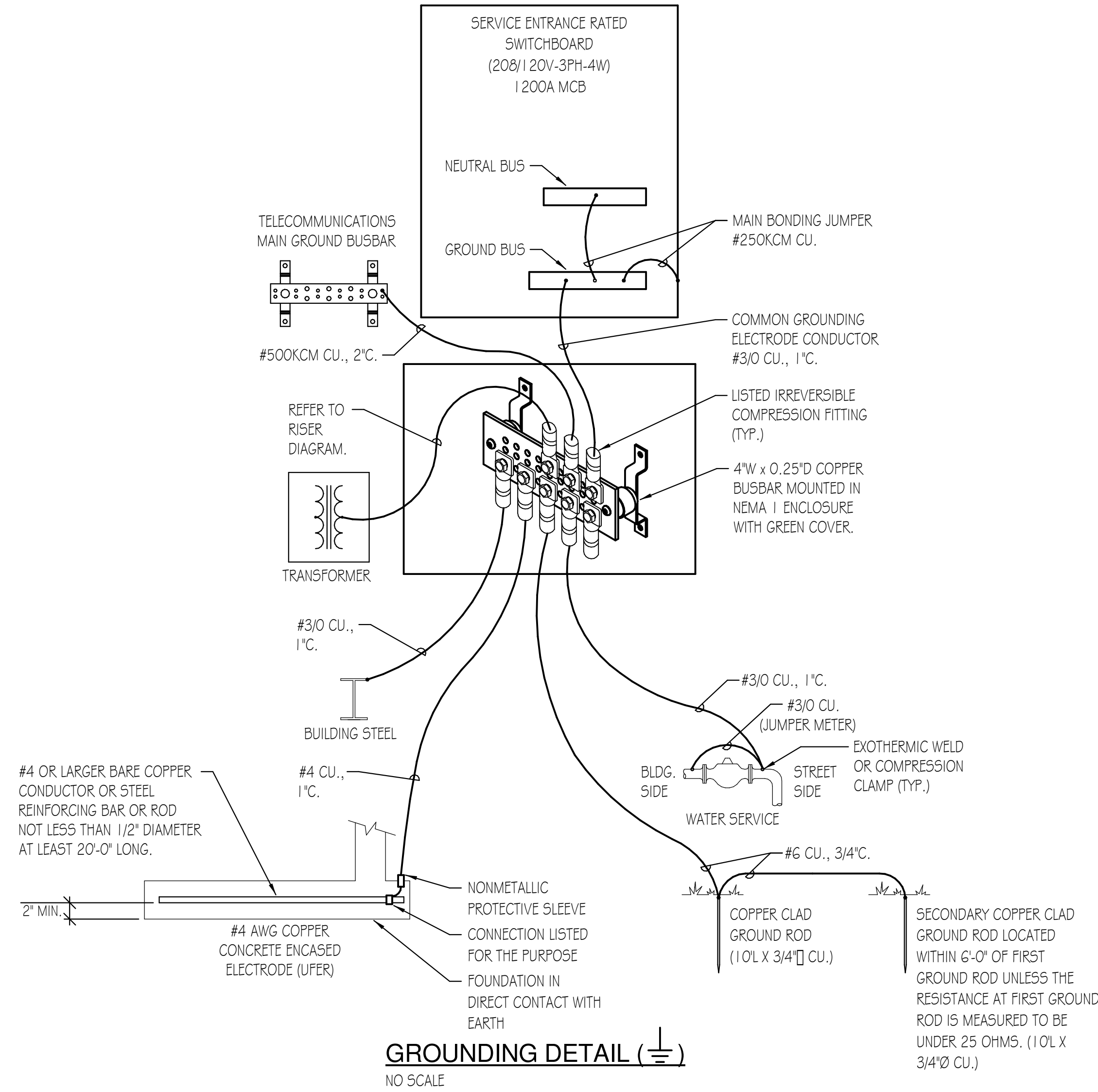
**MINI-SPLIT MECHANICAL UNIT INSTALLATION DETAIL**  
 NO SCALE

NOTES:  
 1. INCLUDE BRACING HARDWARE FOR STABILITY WHERE DISCONNECT MOUNTING IS REQUIRED.

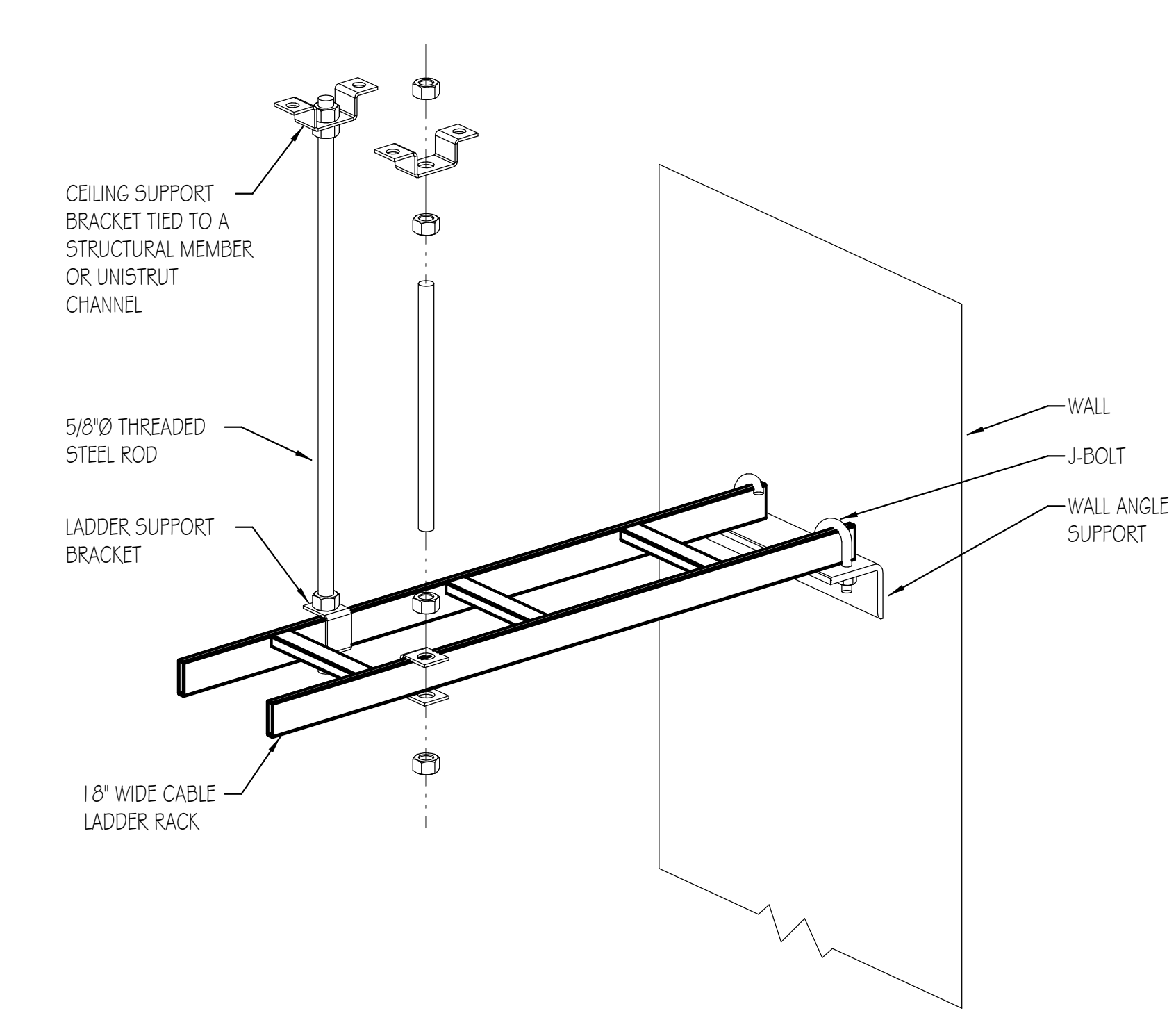


**ACCESS CONTROL / SECURITY DEVICE DETAIL**  
 NO SCALE

NOTES:  
 1. SECURITY DEVICES BY OTHERS. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH OWNER'S REPRESENTATIVE.  
 2. DETAILS ARE REPRESENTATIVE OF TYPICAL INSTALLATION. COORDINATE INSTALLATION WITH DOOR AND DOOR HARDWARE INSTALLER.

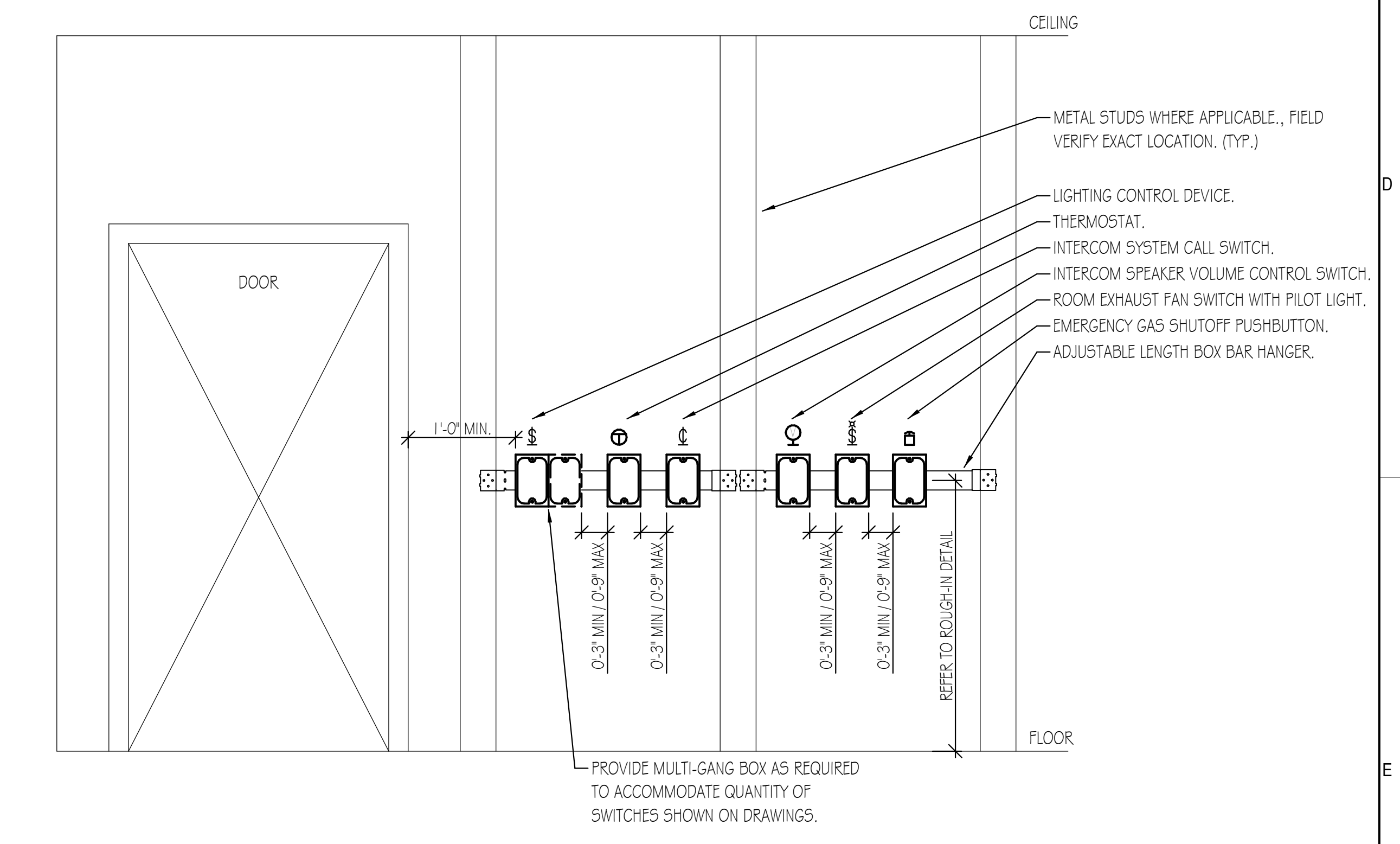


**GROUNDING DETAIL**  
 NO SCALE



**LADDER RACK SUPPORT DETAIL**  
 NO SCALE

NOTES:  
 1. CABLE LADDER RACK SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 5 FEET.  
 2. ROUTE LADDER RACK AS INDICATED ON PLANS. COORDINATE FINAL ROUTING AND ELEVATION WITH EQUIPMENT RACKS AND OWNER'S REPRESENTATIVE.



**ROOM CONTROL SPACING DETAIL**  
 NO SCALE

NOTES:  
 1. SYMBOLS ON PLANS ARE SHOWN OFFSET FOR CLARITY. DETAIL IS SHOWN TO INDICATE GROUPING OF CONTROL DEVICES FOR A TYPICAL ROOM. COORDINATE EXACT DEVICE LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.  
 2. NOT ALL DEVICES ARE REQUIRED FOR PROJECT.

KEY PLAN:

SHEET STATUS: 9.19.23  
**ISSUED FOR BIDS**

NO.	DESCRIPTION:	DATE:

SHEET TITLE:  
**ELECTRICAL DETAILS**

SHEET NUMBER:  
**E7.20**

NO.	DESCRIPTION:	DATE:

NURSE SIMULATION LABS				
ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
DIGITAL SIGNAL PROCESSOR	X	-	-	-
AV CONTROL SYSTEM	X	-	-	-
AV AMPLIFIER	X	-	-	-
CEILING SPEAKERS	-	-	X	-
CEILING MICROPHONES	X	-	-	-

STUDY ROOMS / STUDENT LOUNGE / CONFERENCE ROOMS				
ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
DISPLAY MONITORS	X	-	-	-
WEBCAM AND MICROPHONE	X	-	-	-

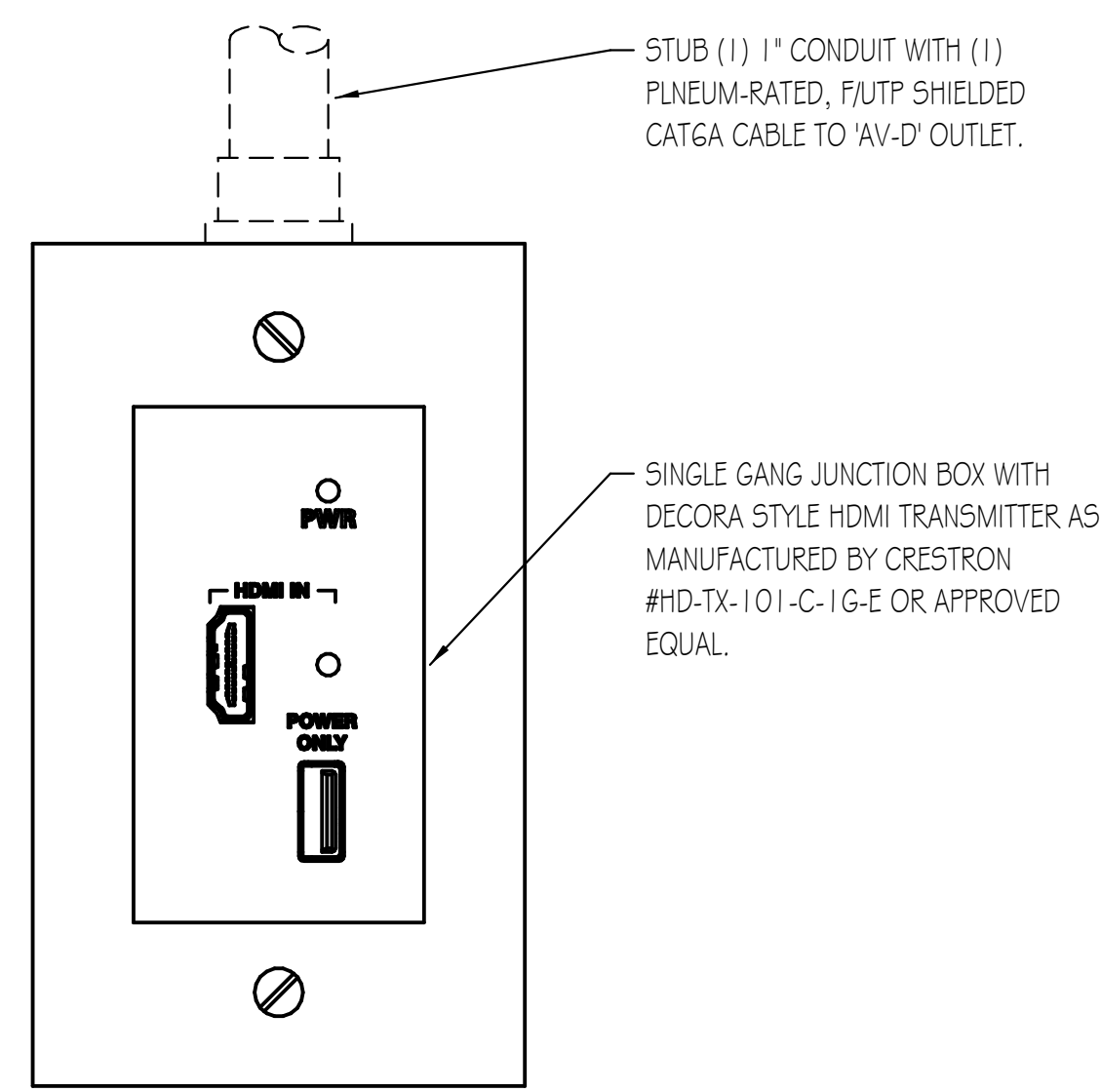
IT EQUIPMENT				
ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
IT RACK	-	-	X	-
UPS	-	-	X	-
CAT6 PATCH PANELS	-	-	X	-
FIBER PATCH PANELS	X	-	-	-
NETWORK SWITCHES	X	-	-	-
WIRELESS ACCESS POINT	X	-	-	-

ACCESS CONTROL / SECURITY EQUIPMENT				
ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
CAMERAS	X	-	-	-
CARD READERS	X	-	-	-
HEAD-END EQUIPMENT	X	-	-	-

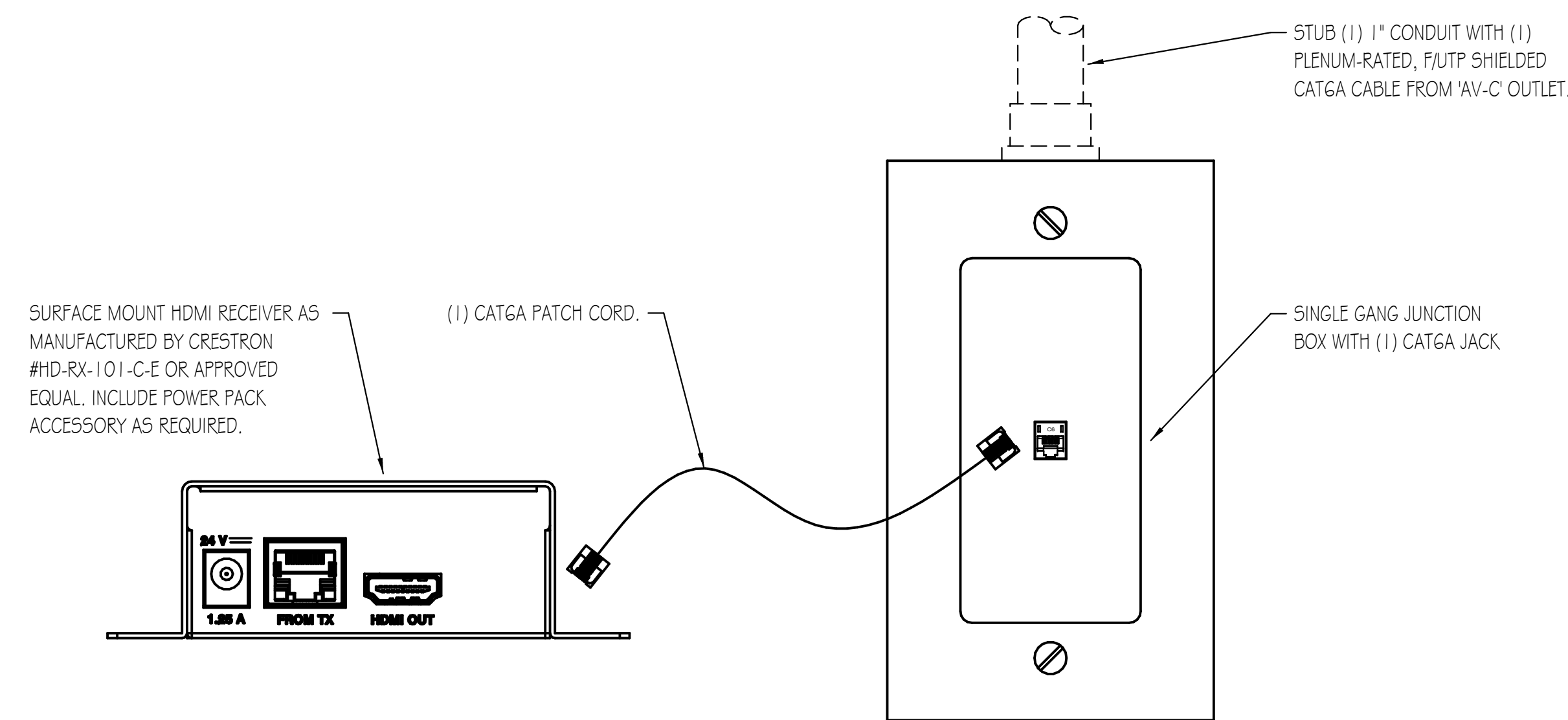
STANDARD CLASSROOM A/V EQUIPMENT				
ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
DESKTOP AIO COMPUTER	X	-	-	-
DOCUMENT CAMERA	X	-	-	-
AV SWITCHER (KRAMER G11DT)	X	-	-	-
CEILING SPEAKERS	-	-	X	-
PROJECTOR (EPSON 530)	-	X	-	-
PROJECTOR SCREEN (DALITE MODEL B)	-	-	X	-
AV AMPLIFIER (CABLE52GO #40881)	X	-	-	-

ROUND CLASSROOM 102				
ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
DESKTOP AIO COMPUTER	X	-	-	-
DOCUMENT CAMERA	X	-	-	-
AV SWITCHER (KRAMER G11DT)	X	-	-	-
CEILING SPEAKERS	-	-	X	-
75" DISPLAY MONITORS	X	-	-	-
CEILING CAMERA	X	-	-	-

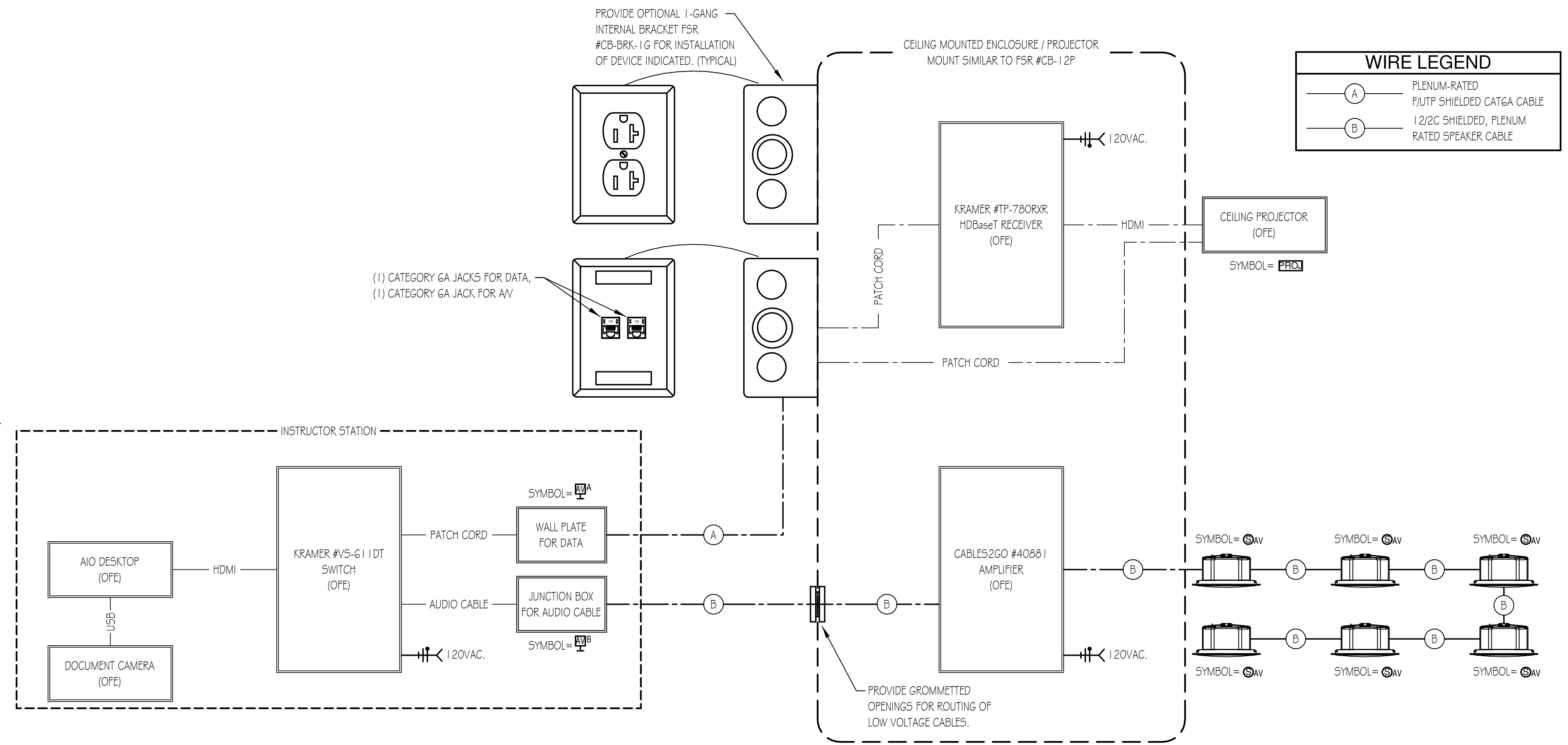
CONFERENCE ROOMS 105A & 150B				
ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
DIGITAL SIGNAL PROCESSOR	X	-	-	-
AV CONTROL SYSTEM	X	-	-	-
AV INPUT DEVICE	X	-	-	-
AV TOUCH SCREEN CONTROL	X	-	-	-
CEILING SPEAKERS	-	-	X	-
CEILING MICROPHONES	X	-	-	-
PROJECTOR (EPSON 530)	-	X	-	-
PROJECTOR SCREEN (DALITE MODEL B)	-	-	X	-



**AV TRANSMITTER OUTLET DETAIL**  
 NO SCALE  
 PLAN SYMBOL =



**AV RECEIVER OUTLET DETAIL**  
 NO SCALE  
 PLAN SYMBOL =



**CLASSROOMS A/V SCHEMATIC DIAGRAM**  
 NO SCALE

- NOTES:
- ALL LOW VOLTAGE CABLES SHALL BE PLENUM-RATED.
  - 'OF' DENOTES OWNER FURNISHED EQUIPMENT.





ARCHITECT OF RECORD  
**DEMONICA KEMPER ARCHITECTS**  
 125 N. HALSTED STREET, SUITE 301  
 CHICAGO, IL 60661  
 P: 312.496.0000

MEP-FP-T-ENGINEERS  
**2010 ENGINEERING GROUP, LLC**  
 1216 TOWER ROAD  
 SCHAUMBURG, IL 60173  
 P: 847.882.2010 F: 847.882.2201

CIVIL ENGINEERS  
**HRG GREEN**  
 1391 CORPORATE DRIVE, SUITE  
 203 MCHENRY, IL 60050  
 P: 815.385.1778 F: 815.385.1781

**MCHENRY COUNTY COLLEGE  
 UNIVERSITY CENTER AT MCC**

222 E CHURCH ST  
 WOODSTOCK, ILLINOIS 60098  
 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23

**ISSUED FOR BIDS**

NO. DESCRIPTION: DATE:

NO.	DESCRIPTION:	DATE:

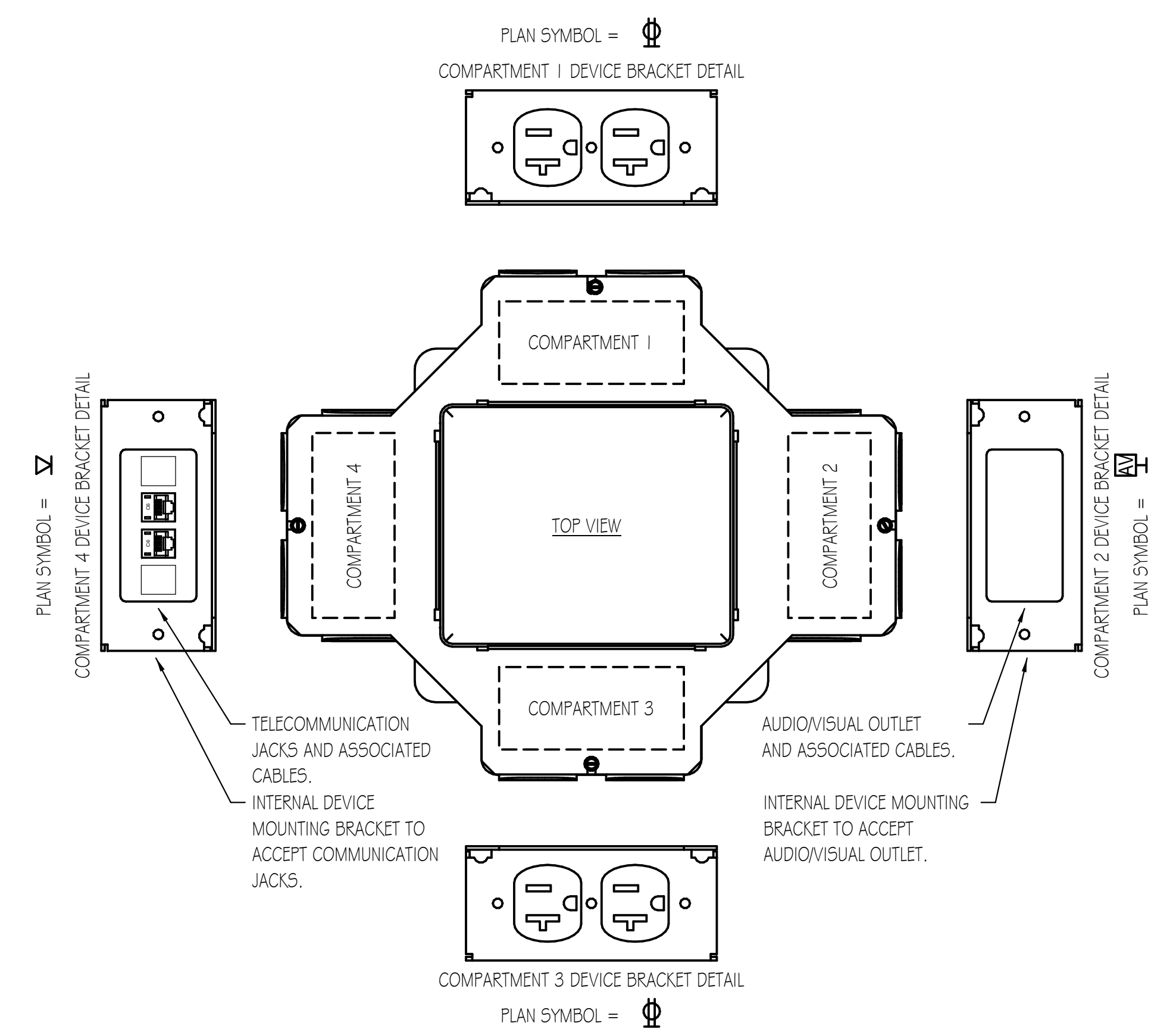
SHEET TITLE:

**ELECTRICAL DETAILS**

SHEET NUMBER:

**E7.40**

9/21/2023 2:07:10 PM



**IN-GRADE FLOOR BOX DEVICE DETAIL**

NO SCALE

PLAN SYMBOL =