

IMED OP MULTI-PURPOSE IMAGING ROOM

INTERMOUNTAIN HEALTHCARE
5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107



524 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
801.575.8800 | VCBO.COM



owner
WALTER SHUMWAY
INTERMOUNTAIN HEALTHCARE
36 S. STATE ST. # 2100
S.L.C. UT 84111
walter.shumway@gmail.org
801.718.2411

architect
JEFF PINEGAR
VCBO ARCHITECTURE
624 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
pinegar@vcbo.com
801.575.8800

structural engineer
JEROD JOHNSON
REAVELEY ENGINEERS
676 EAST 300 SOUTH #400
S.L.C. UT 84102
johnson@reaveley.com
801.486.3883

electrical engineer
PETER JOHANSEN
SPECTRUM ENGINEERS
324 S STATE ST., Suite 400
S.L.C. UT 84111
pj@spectrum-engineers.com
801.328.2151

mechanical engineer
DONALD BRADSHAW
VAN BOERUM & FRANK ASSOCIATES
181 EAST 5600 SOUTH
MURRAY, UT 84107
dbradshaw@vofra.com
801.530.3148

CONSTRUCTION DOCUMENTS
05/31/2022

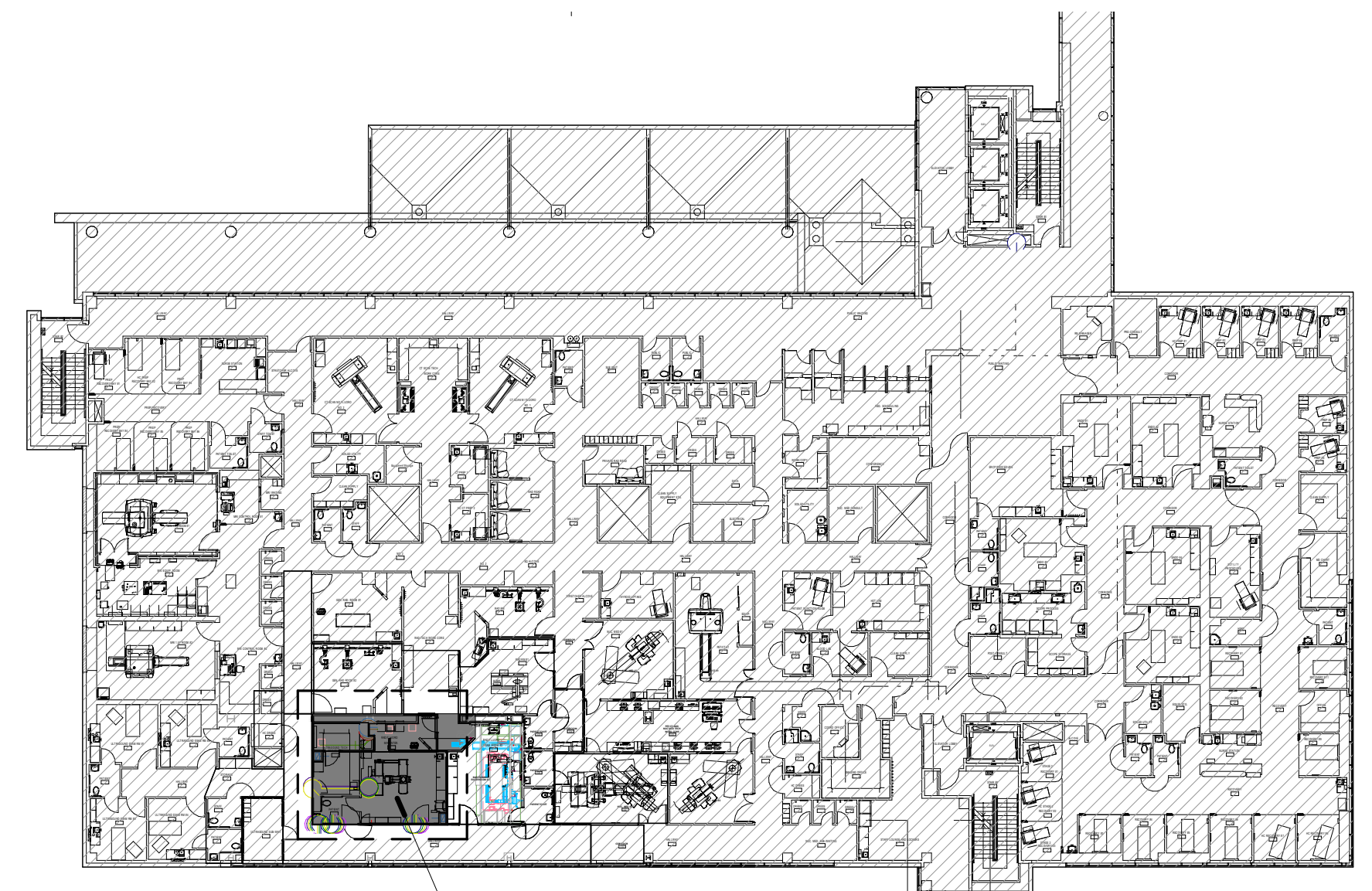
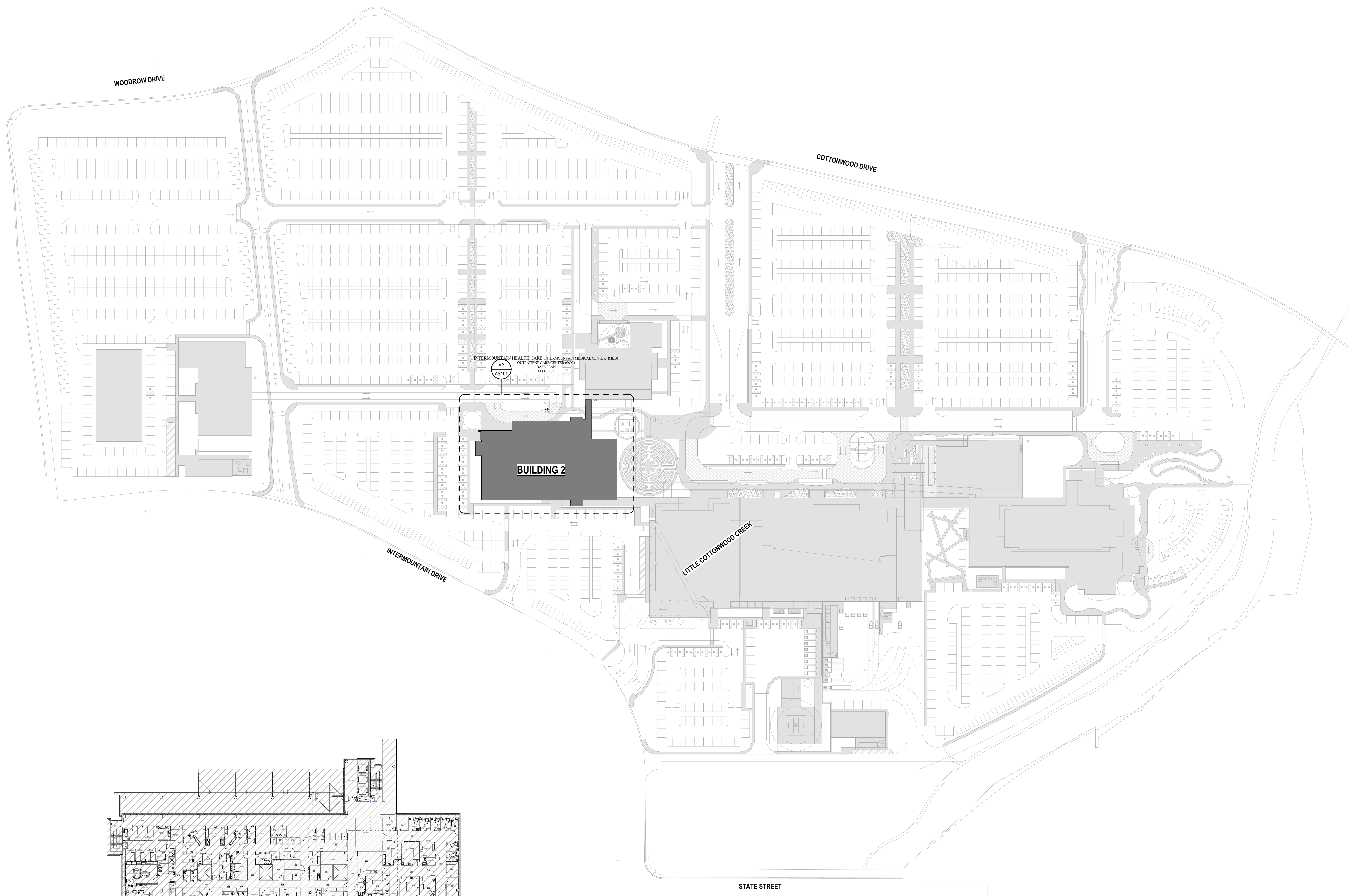
REV	DATE	DESCRIPTION

VCBO NUMBER: 22305
 DATE: 05/31/2022

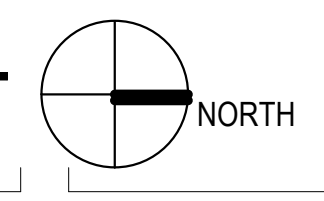
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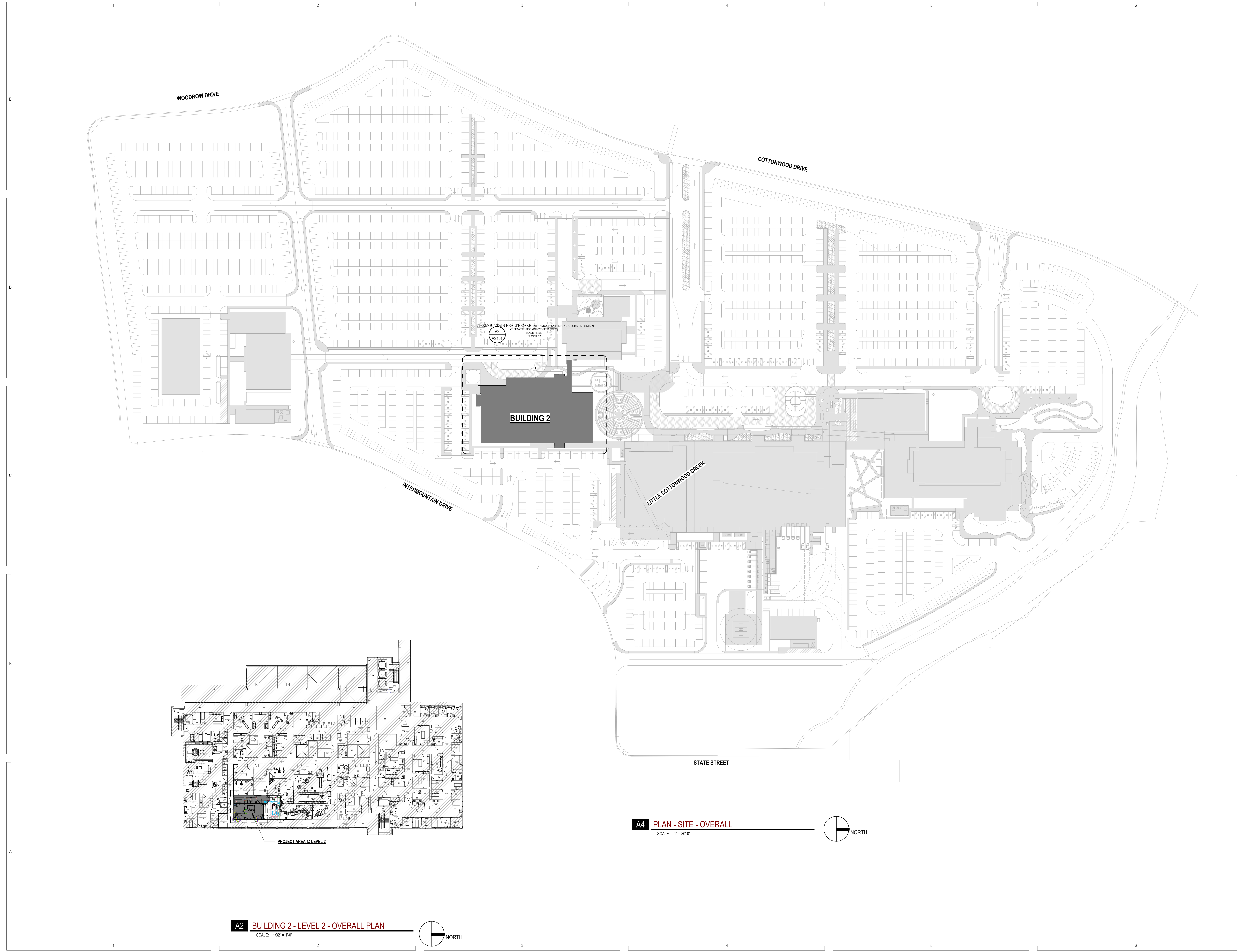
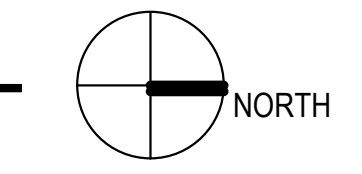
OVERALL SITE PLAN -
 OVERALL BUILDING 5



A2 BUILDING 2 - LEVEL 2 - OVERALL PLAN
 SCALE: 1/32" = 1'-0"



A4 PLAN - SITE - OVERALL
 SCALE: 1" = 60'-0"



KEYED NOTES	
KEY VALUE	KEYNOTE TEXT
2-808.1	EXISTING CABINET, REMOVE & DISPOSE IN ITS ENTIRETY
2-809.1	EXISTING COUNTERTOP, REMOVE & DISPOSE IN ITS ENTIRETY
2-801.1	EXISTING DOOR AND FRAME, REMOVE & DISPOSE IN ITS ENTIRETY
2-802.1	EXISTING WINDOW FRAME & GLAZING, REMOVE & DISPOSE IN ITS ENTIRETY
2-802.1	EXISTING 1-5/8" METAL STUD FRAMING, REMOVE & DISPOSE IN ITS ENTIRETY
2-802.3	EXISTING 3-5/8" METAL STUD FRAMING, PROTECT AS NECESSARY, REPAIR/FILL AS REQUIRED
2-802.4	EXISTING 3-5/8" METAL STUD FRAMING, REMOVE & DISPOSE IN ITS ENTIRETY
2-802.5	EXISTING 3-5/8" METAL STUD FRAMING, REMOVE & DISPOSE AS SHOWN
2-906.1	EXISTING WALL BASE, REMOVE & DISPOSE IN ITS ENTIRETY
2-907.1	EXISTING WALL TILE, REMOVE & DISPOSE IN ITS ENTIRETY, CONTRACTOR TO REMOVE DAMAGED WALL ASSEMBLY COMPONENTS, IF REQUIRED
2-909.1	EXISTING FLOORING, REMOVE & DISPOSE IN ITS ENTIRETY
2-910.1	EXISTING FLOOR TILE, REMOVE & DISPOSE IN ITS ENTIRETY
2-912.7	EXISTING ACOUSTICAL CEILING TILE SYSTEM, REMOVE & DISPOSE IN ITS ENTIRETY
2-1009.1	EXISTING GRAB BAR, REMOVE & DISPOSE IN ITS ENTIRETY
2-2201.1	EXISTING SINK + FAUCET, REMOVE & DISPOSE IN ITS ENTIRETY
2-2202.1	EXISTING WATER CLOSET, REMOVE & DISPOSE IN ITS ENTIRETY


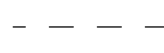

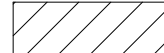

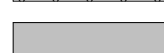
GENERAL DEMOLITION NOTES

- FIELD VERIFY DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING. BRING DIFFERING DIMENSIONS AND CONDITIONS TO ARCHITECT'S ATTENTION PRIOR TO BIDDING.
- A HAZARDOUS MATERIAL SURVEY IS AVAILABLE FROM THE OWNER. ABATEMENT MUST BE COMPLETED PRIOR TO DEMOLITION OF BUILDINGS OR BUILDING ELEMENTS.
- PROVIDE DUSTPROOF ENCLOSURES AT PERIMETER OF CONSTRUCTION & DEMOLITION FOR PROTECTION OF ADJACENT SPACES.
- COORDINATE MAINTENANCE OF FIRE EGRESS FOR OCCUPANTS IN EXISTING BUILDING WITH THE OWNER AND FIRE MARSHAL. PROVIDE NECESSARY TEMPORARY WALLS OR ENCLOSURES, EMERGENCY LIGHTS, ETC., FOR THE DURATION OF CONSTRUCTION.
- BRING TO ARCHITECT'S ATTENTION EXISTING CONDITIONS THAT PRESENT ANY CODE VIOLATIONS, INCORRECT CONSTRUCTION OR SAFETY PROBLEMS.
- MAINTAIN EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) THROUGHOUT CONSTRUCTION. COORDINATE ANY INTERRUPTION TO THESE SYSTEMS WITH THE OWNER AND FIRE MARSHAL. PROVIDE FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE SYSTEMS.
- PROTECT EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT SCHEDULED FOR DEMOLITION. RESTORE DAMAGED ITEMS TO THEIR ORIGINAL CONDITION OR REPLACE AT CONTRACTOR'S EXPENSE.
- REMOVE AND DISPOSE SELECTIVE DEMOLITION MATERIAL PER CITY REQUIREMENTS.
- SALVAGE MATERIAL WHERE INDICATED. REMOVE ITEMS FROM CURRENT LOCATIONS & PREPARE FOR TRANSPORT BY THE OWNER.

GENERAL PLAN DEMOLITION NOTES

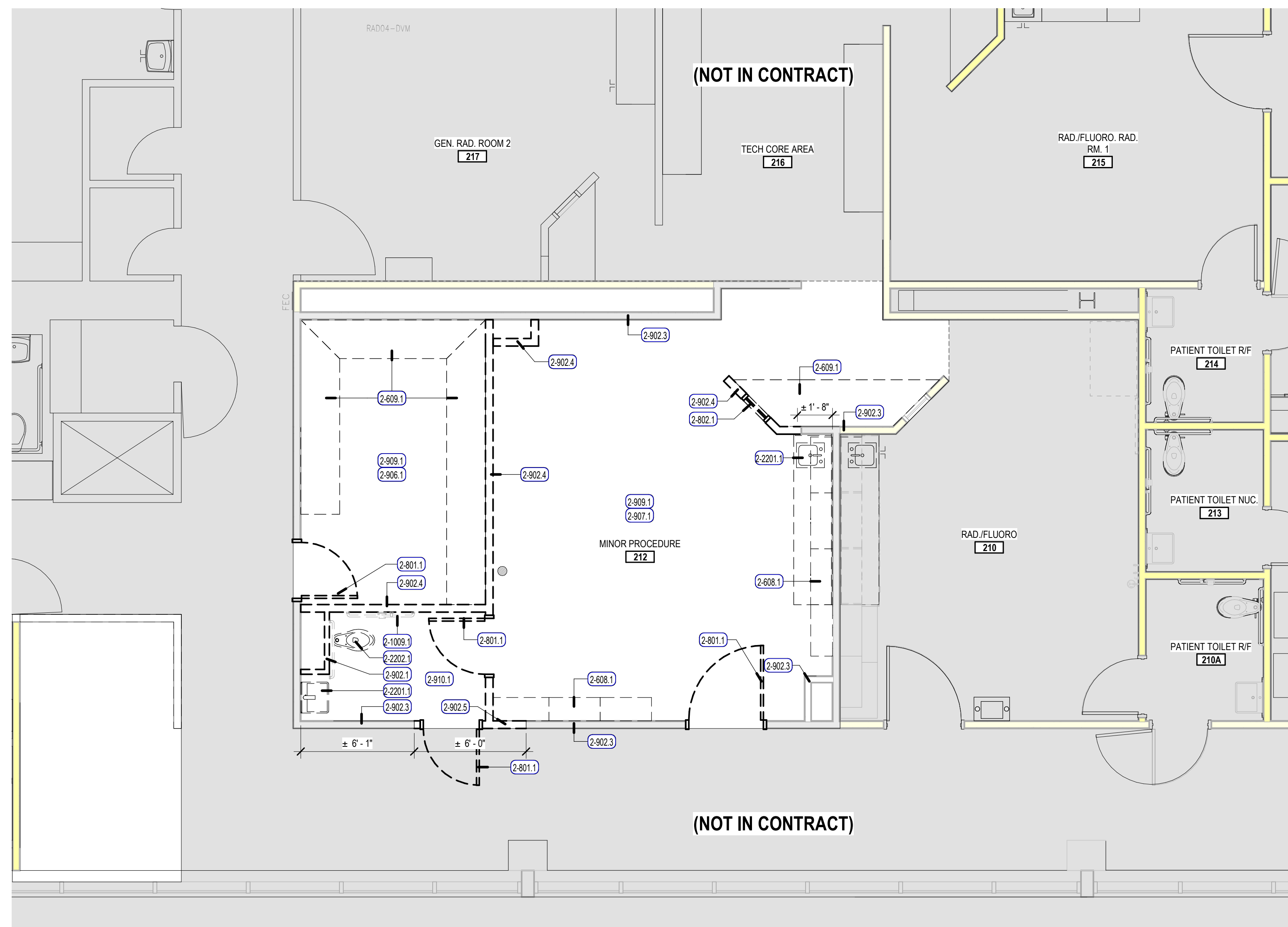
- REFER TO ELECTRICAL AND MECHANICAL PLANS FOR REQUIRED ADDITIONAL DEMOLITION.
- MAINTAIN EXISTING FIRE RATINGS THROUGHOUT CONSTRUCTION.
- DO NOT DISTURB EXISTING FIRE RATED ELEMENTS INCLUDING FIREPROOFING, PATCH/REPAIR DAMAGED OR DISTURBED ITEMS.
- AFTER DEMOLITION, PRIOR TO FINISH, PATCH AND REPAIR EXISTING WALLS TO PROVIDE SMOOTH SURFACE SUITABLE FOR PAINTING OR WALL COVERING.
- PATCH & LEVEL EXISTING CONCRETE SLABS FOR NEW FINISHES WITH FLOOR LEVELING COMPOUND.
- FIELD VERIFY AND COORDINATE SAW CUTTING OF THE CONCRETE FLOOR SLAB WITH PLUMBING AND ELECTRICAL.
- REPLACE SLAB AND TRENCH BY COMPACTING CLEAN GRAVEL IN 8 INCH LIFTS. DRILL #4 EPOXY-COATED REBAR INTO EXISTING SLAB @ 12 INCHES OC. POUR SLAB TO PROVIDE A SMOOTH EVEN FLOOR.
- WHERE ELECTRICAL CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED, MAKE NECESSARY MODIFICATIONS TO MAINTAIN CIRCUIT INTEGRITY.
- REMOVE ELECTRICAL BOXES BEHIND RELOCATED MILLWORK AND CAP AS REQUIRED.
- CAP EXISTING DUCT WORK FOR DUST CONTROL.

DEMOLITION LEGEND

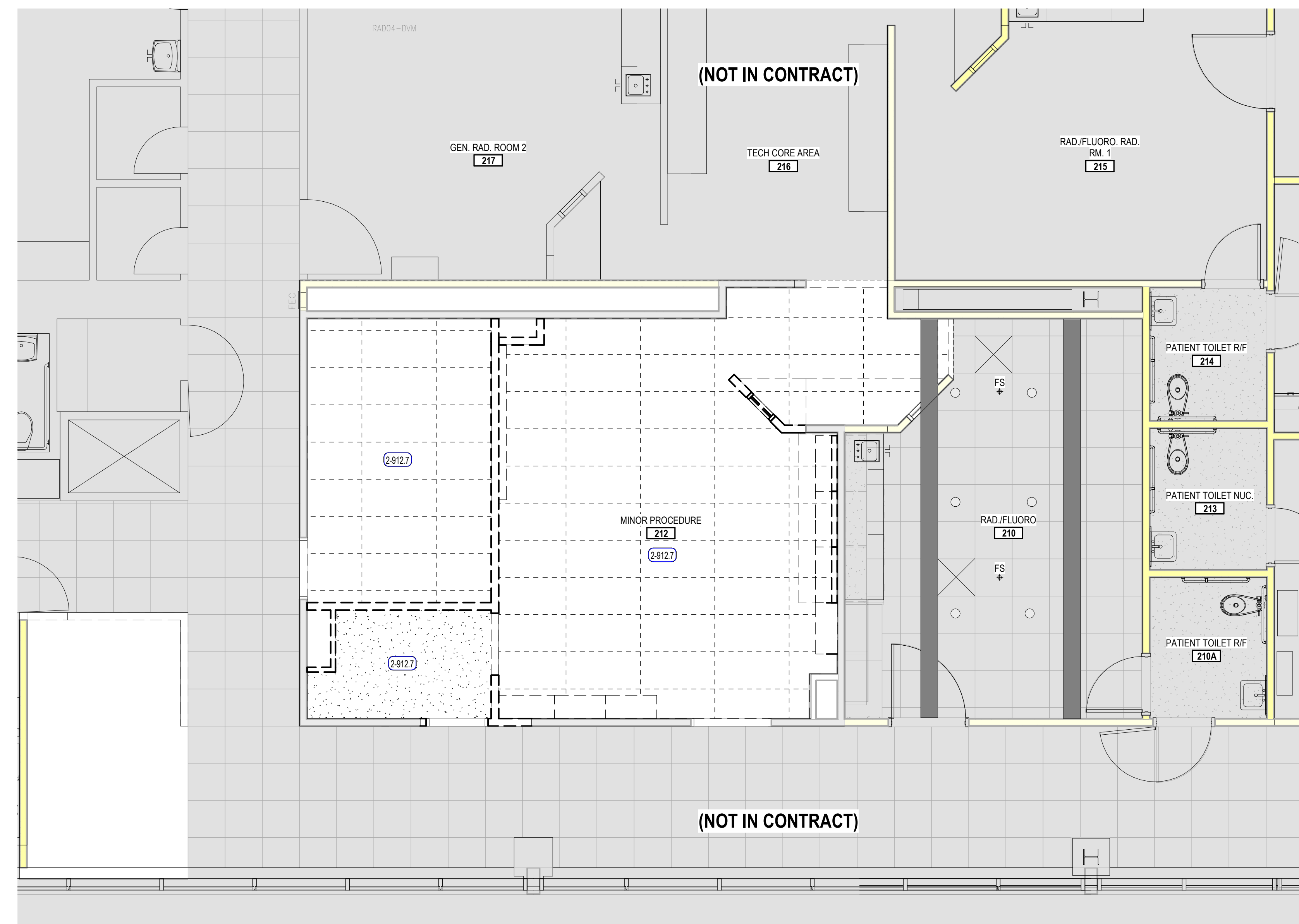
-  HALF-TONE LINE DENOTES ITEMS TO REMAIN
-  DASHED LINE DENOTES ITEMS TO BE DEMOLISHED
-  SCOPE OF WORK AREA
-  SLAB RECESSED / SLAB CORE DRILL AREA - SEE PLANS
-  AREA OF DISTURBANCE DURING CONSTRUCTION (COORDINATE W. OWNER)
-  AREA OUT OF SCOPE OF WORK

REV	DATE	DESCRIPTION
1	08.03.21	ADD 01

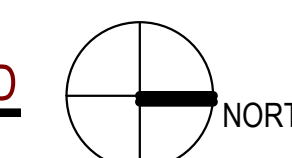
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A1 DEMOLITION PLAN - ENLARGED
SCALE: 1/4" = 1'-0"



A4 DEMO REFLECTED CEILING PLAN - ENLARGED
SCALE: 1/4" = 1'-0"



GENERAL DEMOLITION NOTES

- FIELD VERIFY DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING. BRING OFFERING DIMENSIONS AND CONDITIONS TO ARCHITECT'S ATTENTION PRIOR TO BIDDING.
- A HAZARDOUS MATERIAL SURVEY IS AVAILABLE FROM THE OWNER. ABATEMENT MUST BE COMPLETED PRIOR TO DEMOLITION OF BUILDINGS OR BUILDING ELEMENTS.
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- COORDINATE MAINTENANCE OF FIRE EGRESS FOR OCCUPANTS IN EXISTING BUILDING WITH THE OWNER AND FIRE MARSHAL. PROVIDE NECESSARY TEMPORARY WALLS OR ENCLOSURES, EMERGENCY LIGHTS, ETC. FOR THE DURATION OF CONSTRUCTION.
- BRING TO ARCHITECT'S ATTENTION EXISTING CONDITIONS THAT PRESENT ANY CODE VIOLATIONS, INCORRECT CONSTRUCTION OR SAFETY PROBLEMS.
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- PROTECT EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT SCHEDULED FOR DEMOLITION. RESTORE DAMAGED ITEMS TO THEIR ORIGINAL CONDITION OR REPLACE AT CONTRACTOR'S EXPENSE.
- REMOVE AND DISPOSE SELECTIVE DEMOLITION MATERIAL PER CITY REQUIREMENTS.
- SALVAGE MATERIAL WHERE INDICATED. REMOVE ITEMS FROM CURRENT LOCATIONS & PREPARE FOR TRANSPORT BY THE OWNER.

GENERAL PLAN DEMOLITION NOTES

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- AFTER DEMOLITION, PRIOR TO FINISH, PATCH AND REPAIR EXISTING WALLS TO PROVIDE SMOOTH SURFACE SUITABLE FOR PAINTING OR WALL COVERING.
- PATCH & LEVEL EXISTING CONCRETE SLABS FOR NEW FINISHES WITH FLOOR LEVELING COMPOUND.
- FIELD VERIFY AND COORDINATE SAW CUTTING OF THE CONCRETE FLOOR SLAB WITH PLUMBING AND ELECTRICAL.
- REPLACE SLAB AND TRENCH BY COMPACTING CLEAN GRAVEL IN 8 INCH LIFTS. DRILL #4 EPOXY-COATED REBAR INTO EXISTING SLAB @ 12 INCHES OC. POUR SLAB TO PROVIDE A SMOOTH EVEN FLOOR.
- WHERE ELECTRICAL CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED, MAKE NECESSARY MODIFICATIONS TO MAINTAIN CIRCUIT INTEGRITY.
- REMOVE ELECTRICAL BOXES BEHIND RELOCATED MILLWORK AND CAP AS REQUIRED.
- CAP EXISTING DUCT WORK FOR DUST CONTROL.

DEMOLITION LEGEND

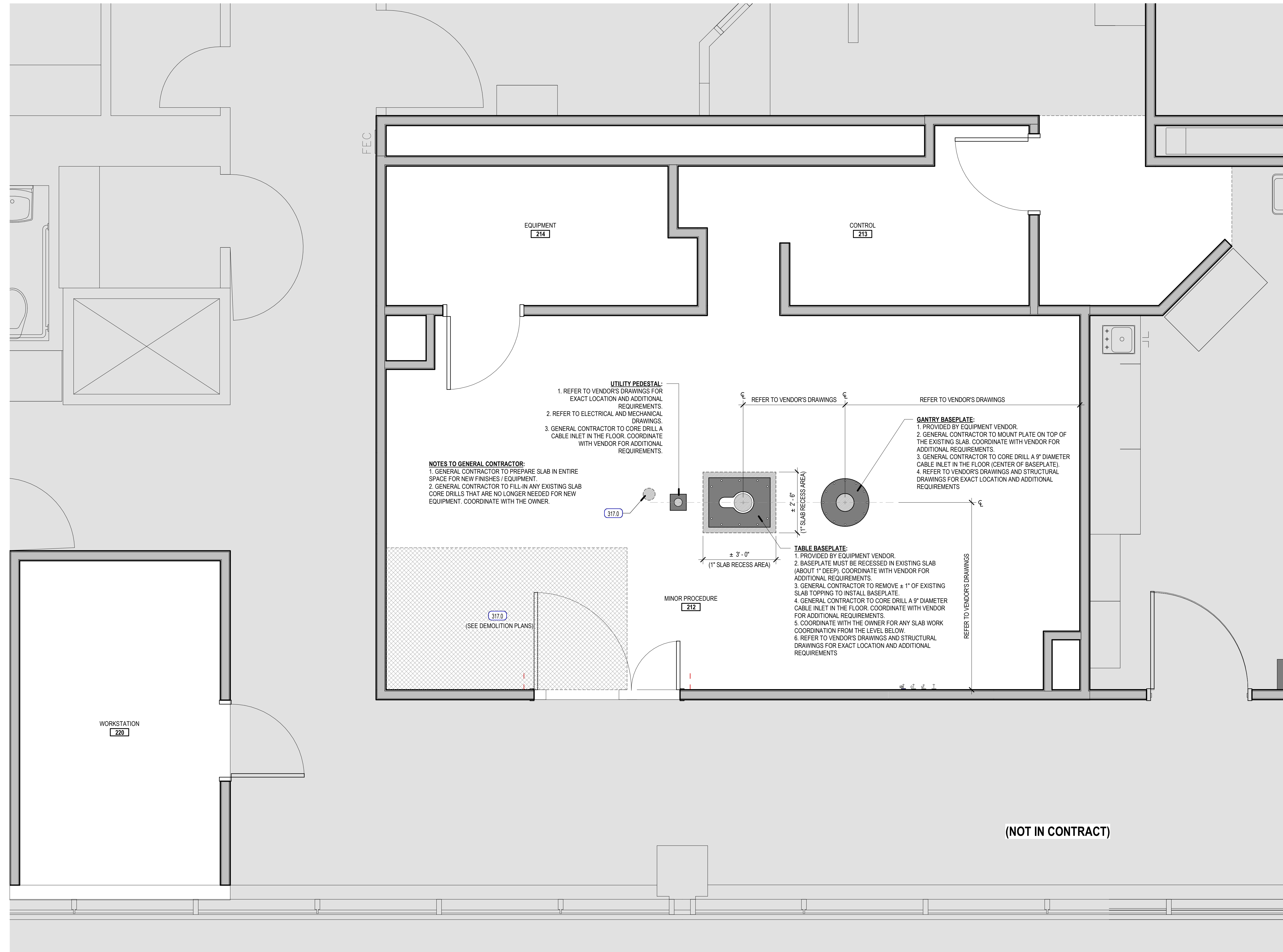
- HALF-TONE LINE DENOTES ITEMS TO REMAIN
- - - DASHED LINE DENOTES ITEMS TO BE DEMOLISHED
- SCOPE OF WORK AREA
- ▨ SLAB RECESSED / SLAB CORE DRILL AREA - SEE PLANS
- ▩ AREA OF DISTURBANCE DURING CONSTRUCTION (COORDINATE W. OWNER)
- AREA OUT OF SCOPE OF WORK

KEYED NOTES

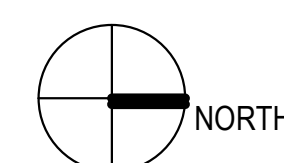
KEY VALUE	KEYNOTE TEXT
317.0	EXISTING SLAB RECESSED / CORE DRILL TO BE FILLED IN LEVEL WITH EXISTING SLAB IN THIS AREA, AS NEEDED. PREPARE FOR NEW FINISHES

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A3 SLAB PLAN
SCALE: 1/2" = 1'-0"



GENERAL NOTES

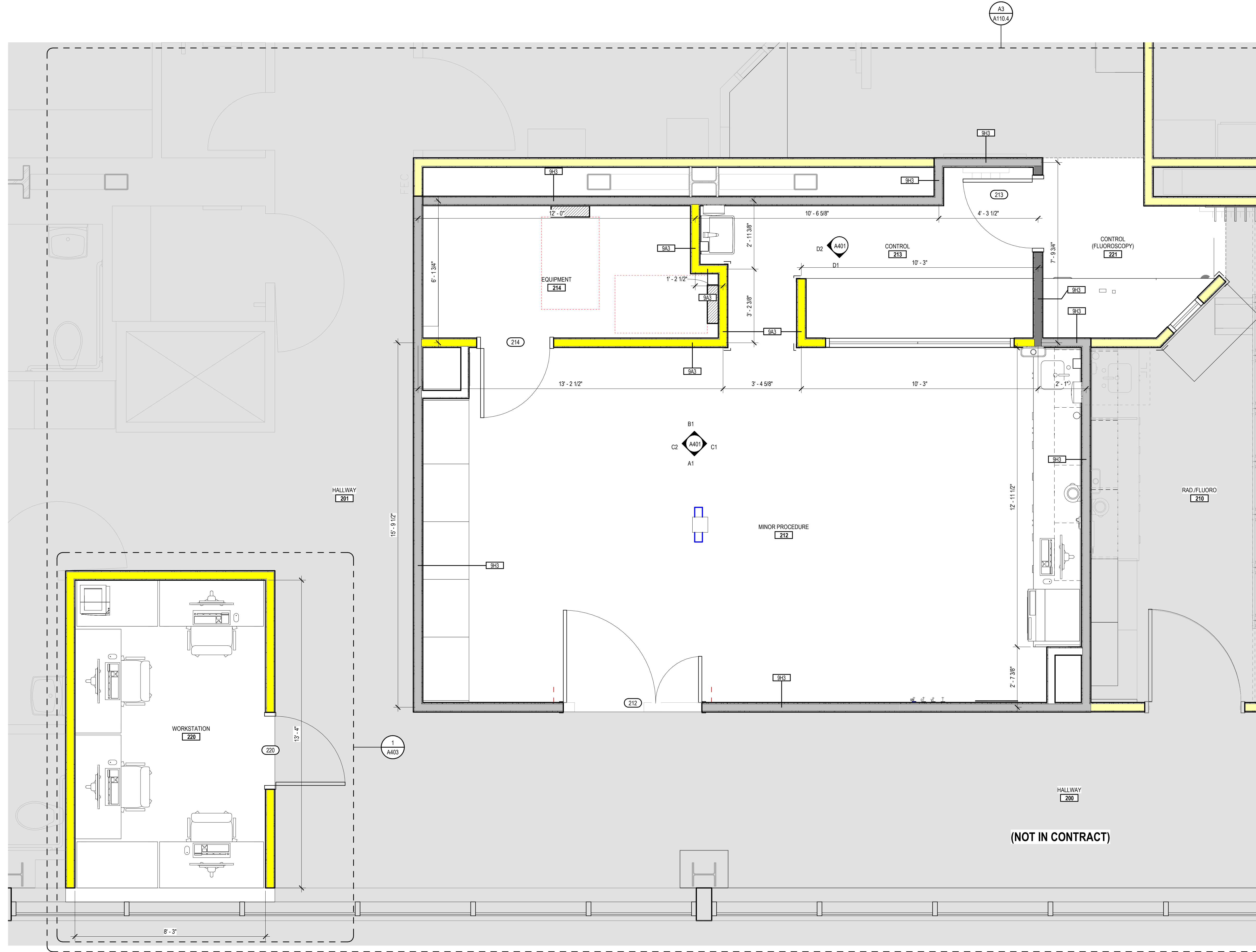
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.
- AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS, THE CONTRACTOR SHALL ENDEAVOR TO IDENTIFY AND NOTIFY THE ARCHITECT OF ANY CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT.
- THE ARCHITECTURAL DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL THE TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES. QUANTITIES ARE TO BE PROVIDED AS SHOWN ON DRAWINGS OF OTHER DISCIPLINES BUT LOCATIONS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS. THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL PARTS OF THE WORK.
- EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED.
- CONTRACTOR TO FOLLOW CURRENT ANSI 117-1 STANDARDS AS REPRESENTED ON SHEET G301, GENERAL ACCESSIBILITY GUIDELINES. NOTIFY ARCHITECT IF THE DESIGN DRAWINGS CONFLICT WITH THIS SHEET.

DIMENSION NOTES

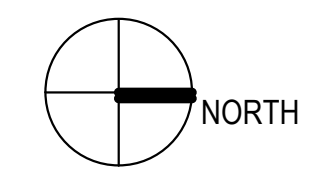
- ALL DIMENSIONS ARE TO CENTER OF STUD WALL OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. WHERE THE END OF A WALL IS INDICATED THE DIMENSION IS TO THE FINISH SURFACE OF THE WALL END.
- UNLESS DIMENSIONED OTHERWISE, THE DIMENSION FROM THE BUCK OF A DOOR FRAME IS TO BE 4" TO THE WALL CORNER.
- EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN, DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT, THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED.

KEYED NOTES

KEY VALUE	KEYNOTE TEXT



A3 LEVEL 2 - ANNOTATED & DIMENSION PLAN
SCALE: 1/2" = 1'-0"



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ANNOTATED & DIMENSION PLAN

A110.1

GENERAL CEILING NOTES

- REFER TO DETAIL A2/A500 FOR TYPICAL CEILING SUSPENSION & SEISMIC BRACING
- REFER TO DETAIL A3/A500 FOR TYPICAL SUSPENDED GYP. BOARD CEILINGS
- ALL UNIDENTIFIED CEILING TYPES ON THE PLANS SHALL BE TYPE "A" AT 9'-0" A.F.F.
- GRID SUSPENSION SYSTEMS SHALL BE CENTERED WITHIN AREAS INDICATED, UNLESS NOTED OTHERWISE
- PAINT BLACK ALL EXPOSED STRUCTURE, MECHANICAL, DUCTS, ELECTRICAL WORK, PIPING, ETC.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF MECHANICAL GRILLES, AND TO MECHANICAL DRAWINGS FOR QUANTITIES AND TYPES
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES AND TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPES
- MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE WORK WITH SPRINKLER CONTRACTOR TO AVOID CONFLICTS IN FIELD
- ALL CEILING HEIGHTS ARE ELEVATION ABOVE TOP OF CONCRETE FLOOR SLAB

CEILING LEGEND

- A- SUSPENDED 2' X 4' ACOUSTICAL LAY-IN TILE CEILING
- B- OPEN TO STRUCTURE

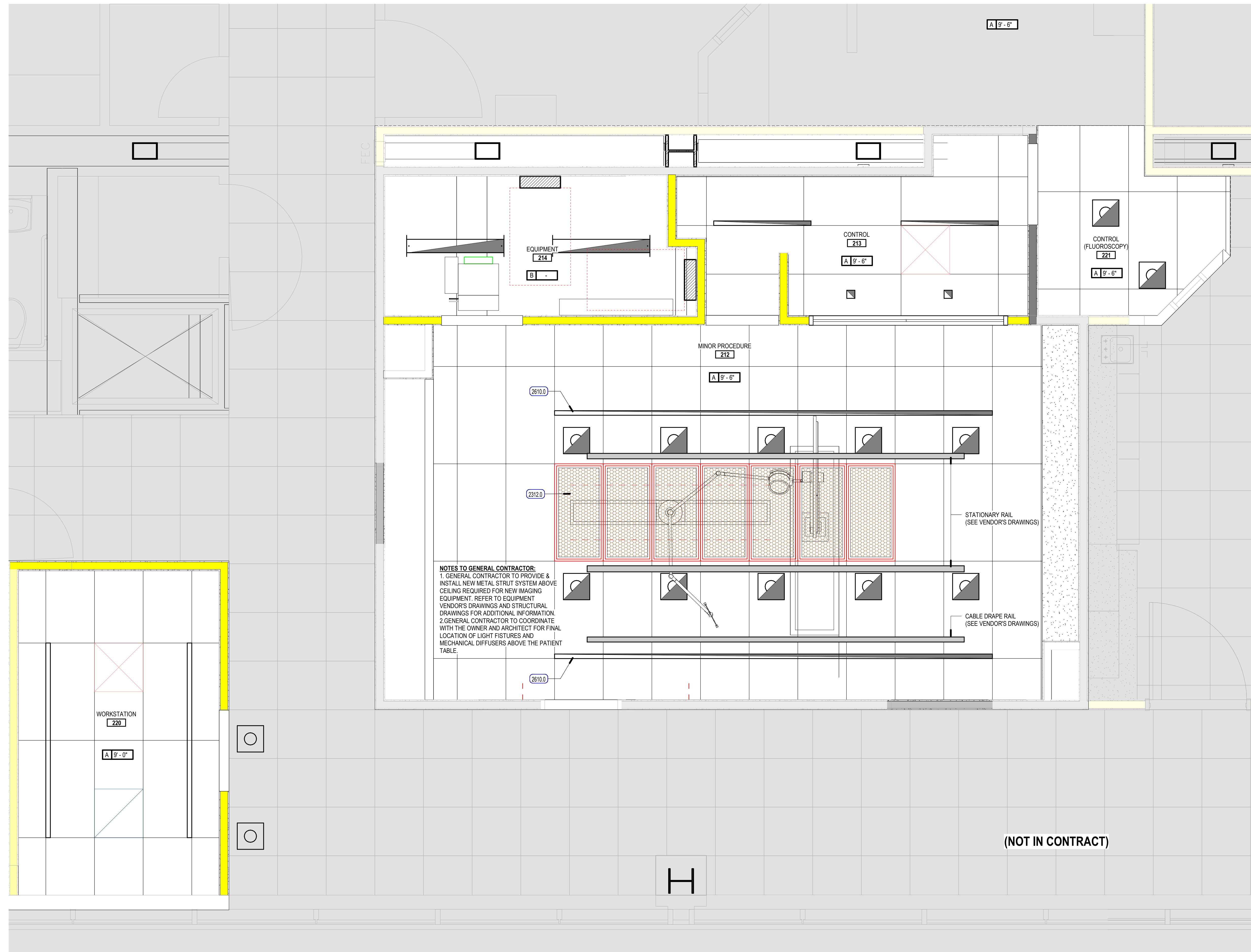
CEILING SYMBOLS

ELECTRICAL

- 2'X4' FLUORESCENT FIXTURE
- 2'X2' FLUORESCENT FIXTURE
- 1'X4' FLUORESCENT FIXTURE
- FLUORESCENT STRIP FIXTURE
- RECESSED DOWN LIGHT
- WALL WASH
- 1'X4' FLUORESCENT FIXTURE
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- FIRE ALARM
- SPEAKER
- SMOKE DETECTOR
- WIRELESS INTERNET

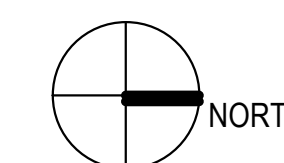
MECHANICAL

- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR DIFFUSER
- SPRINKLER HEAD - CEILING MOUNT
- SPRINKLER HEAD - WALL MOUNT



NOTES TO GENERAL CONTRACTOR:
1. GENERAL CONTRACTOR TO PROVIDE & INSTALL NEW METAL STRUT SYSTEM ABOVE CEILING REQUIRED FOR NEW IMAGING EQUIPMENT. REFER TO EQUIPMENT VENDOR'S DRAWINGS AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. GENERAL CONTRACTOR TO COORDINATE WITH THE OWNER AND ARCHITECT FOR FINAL LOCATION OF LIGHT FIXTURES AND MECHANICAL DIFFUSERS ABOVE THE PATIENT TABLE.

A3 LEVEL 2 - REFLECTED CEILING PLAN
SCALE: 1/2" = 1'-0"



REV	DATE	DESCRIPTION

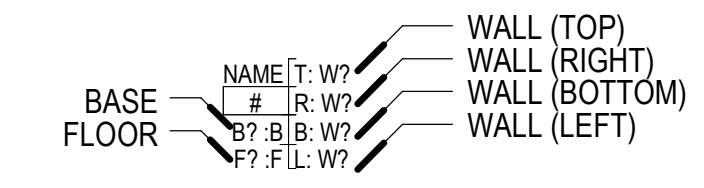
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LEGEND - FINISH					
MARK	PRODUCT DESCRIPTION	MANUFACTURER	NAME	COLOR	COMMENTS
FLOOR					
F1	LINOLEUM	MANNINGTON	BIOSPEC SR 67361	FLAX	ACCENT COLOR (AT IMAGING EQUIPMENT AREA)
F2	LINOLEUM	MANNINGTON	BIOSPEC SR 67369	BEDROCK	MAIN COLOR
F3	SEALED CONCRETE				
BASE					
B1	LINOLEUM	MANNINGTON	BIOSPEC SR 67369	BEDROCK	4" COOKED - CARRY OVER SAME COLOR AS FLOORING WHERE IT OCCURS
PAINT					
P1	LATEX PAINT - EGGSHELL	SHERWIN WILLIAMS		WORDLY GRAY SW67943	BASE COLOR
P2	LATEX PAINT - EGGSHELL	SHERWIN WILLIAMS		DISTANCE SW6243	ACCENT COLOR
SURFACE					
CG1	CORNER INPRO GUARD	INPRO		CHINO 0258	
PL1	PLASTIC LAMINATE	WILSONART	PREMIUM LAMINATE	8213K-26 PHANTOM COCOA	GLASS LINE FINISH - VERTICAL SURFACES (SEE PLANS)
PL2	PLASTIC LAMINATE	LAMINART		2420-T MINERAL GOLD	TEXTURED FINISH - HORIZONTAL SURFACES (SEE PLANS)
SS1	SOLID SURFACE - CORIAN	DUPONT	CORIAN	CONCRETE	SEE PLANS
WP1	WALL INPRO PROTECTION	INPRO		CHINO 0258	

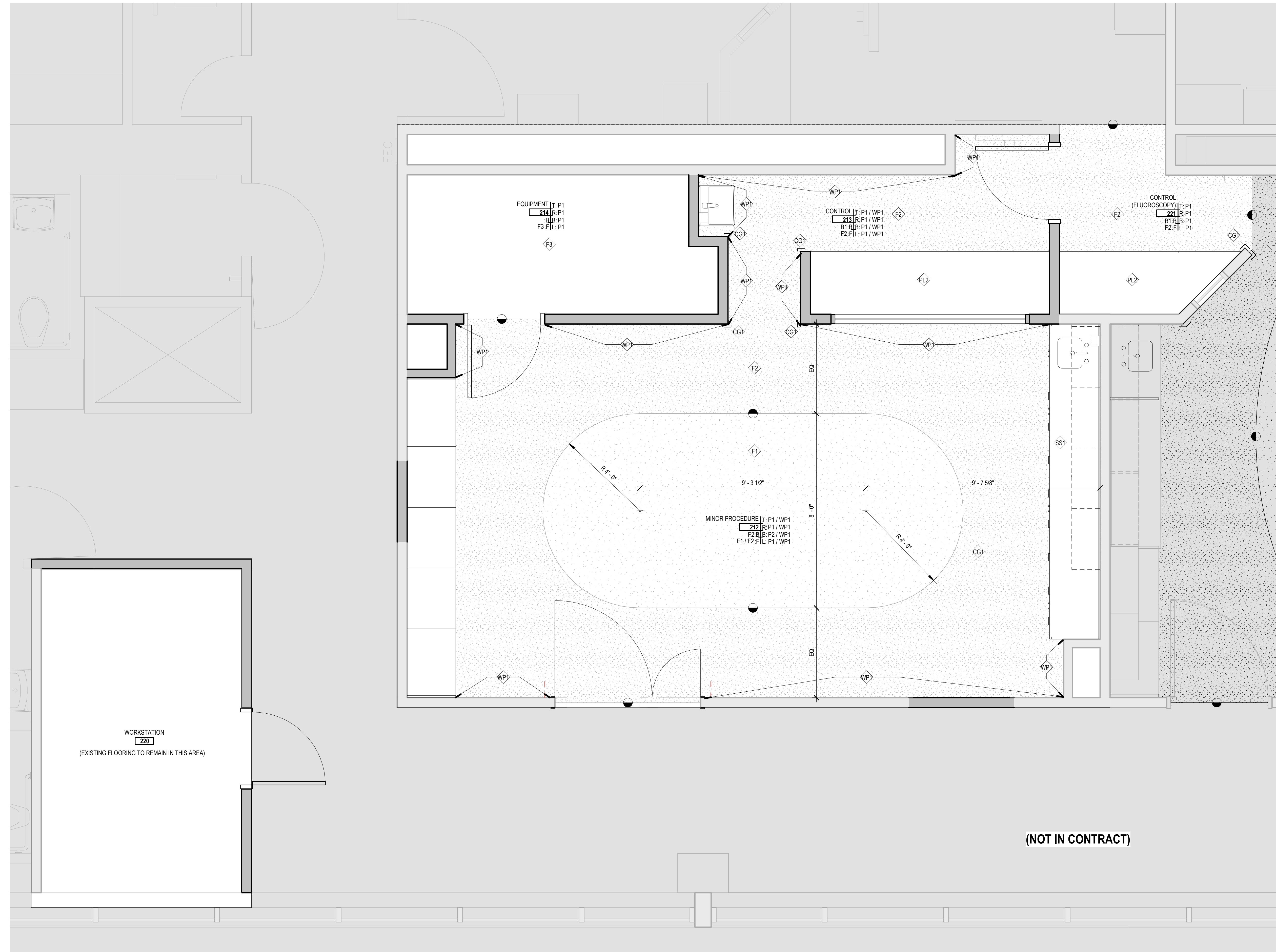
GENERAL FINISH NOTES

- ALL FLOOR TRANSITIONS TO BE LOCATED AT CENTER OF DOOR, U.N.O.
- FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
- COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
- AT SOFFITS RECEIVING COLOR- PAINT ALL SIDES OF SOFFIT.
- ALL WOOD TRIM TO BE STAINED TO MATCH DOOR STAIN.
- ALL COUNTERTOP, BACKSPASHES, AND EDGE BANDING TO HAVE COORDINATING FINISHES.
- PROVIDE A SMOOTH TRANSITION AT ALL FLOOR MATERIALS - CONTRACTOR TO INSTALL ALL FLOOR FINISHES AT SAME LEVEL, DESPITE DIFFERENT THICKNESS. PROVIDE FLOOR TRANSITION WHERE OCCURS.
- GYPSON BOARD SOFFITS TO BE PAINTED WHITE.
- ALL EXPOSED CEILINGS TO BE PAINTED (WHERE OCCURS). REFER TO REFLECTED CEILING PLANS. COORDINATE WITH ARCHITECT FOR PAINT COLOR.

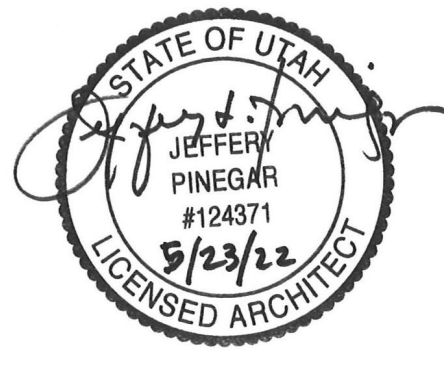
FINISH PLAN SYMBOLS



- SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DIFFERENT FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL FINISH INFORMATION
- CHANGE AT FLOOR MATERIAL
- SIGNAGE TAG- SEE SIGNAGE SHEETS FOR DETAILS



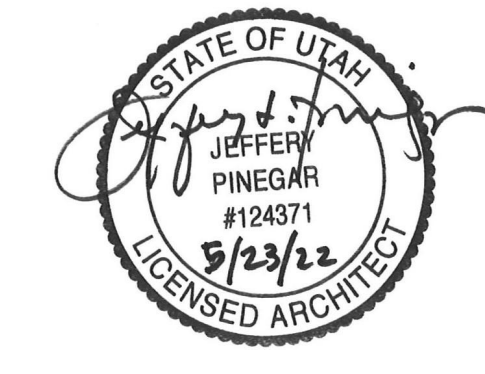
A3 FINISH PLAN
SCALE: 1/2" = 1'-0"
NORTH



REV	DATE	DESCRIPTION

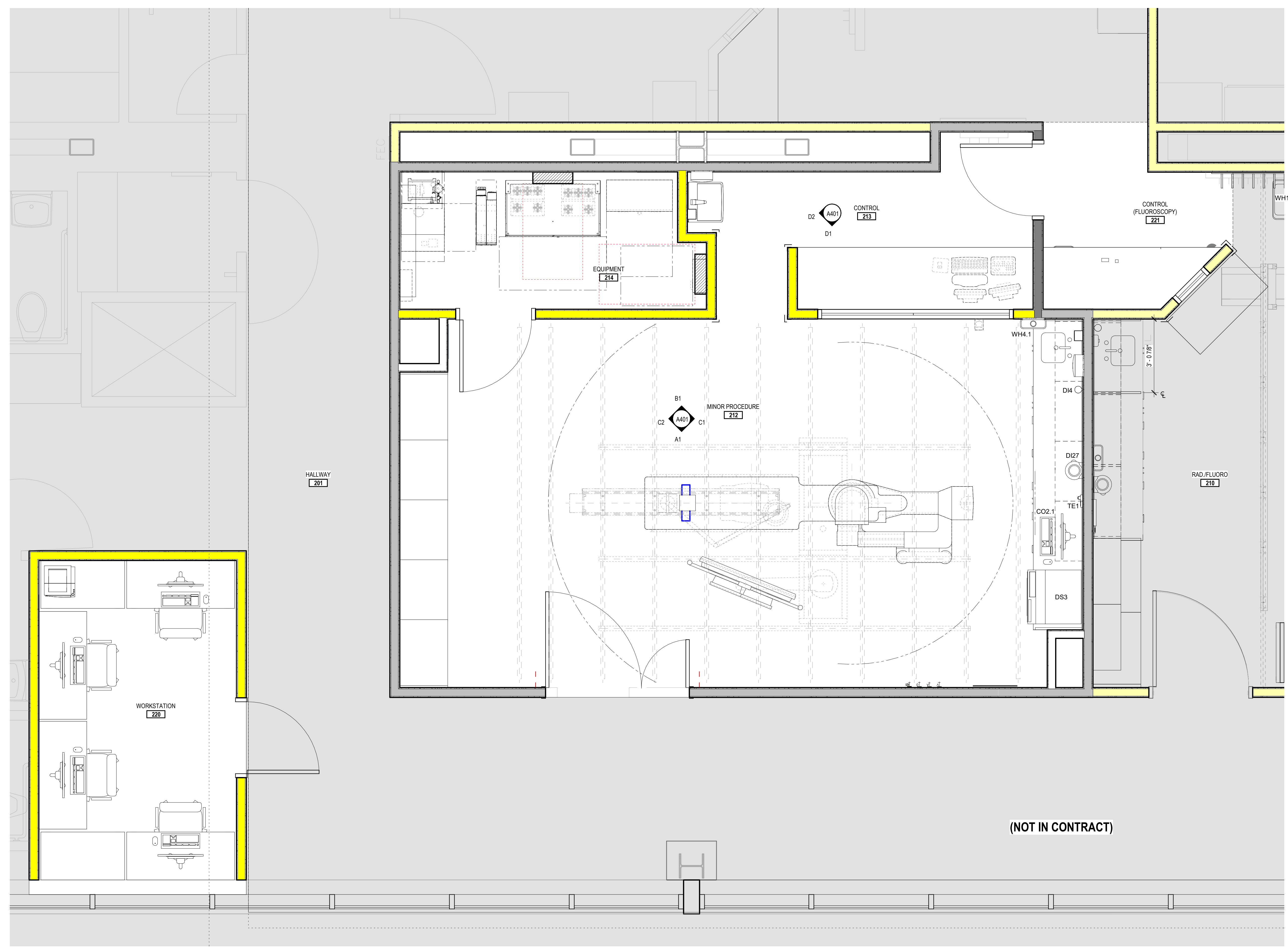
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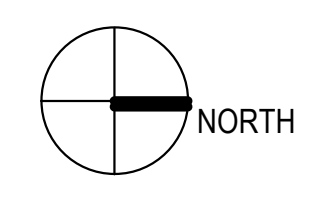
KEYED NOTES	
KEY VALUE	KEYNOTE TEXT

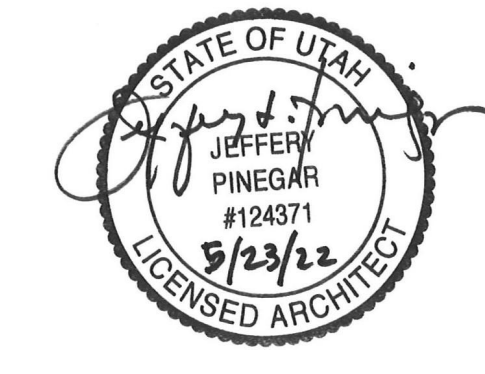
EQUIPMENT SCHEDULE	
TYPE MARK	TYPE DESCRIPTION
D1	GLUCK
CO2.1	GEN - COMPUTER WORKSTATION - SINGLE MONITOR (DESKTOP)
D4	MED - DISPENSER-HAND SANITIZER-WALL
D7	MED - GLOVE DISPENSER HORIZONTAL - TRIPE
D27	GEN - DISPENSER-DISINFECTANT WIPES-WALL
DS3	MED - DISPENSING SYSTEM-MEDICATION-QUARTER HEIGHT CABINET-COUNTER
TE1	GEN - TELEPHONE-WALL
WH1.1	MED - WASTE-BIO HAZARD - STEP ON (8 GAL)
WH3	MED - HAMPER-LINEN
WH4.1	MED - SHARP CONTAINER-WALL (2 GAL.)
WH13	GEN - WASTE CAN-23 GAL. (STANDARD)



REV	DATE	DESCRIPTION

VCBO NUMBER: 22305
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KEYED NOTES	
KEY VALUE	KEYNOTE TEXT
1006.1	DISPENSER, SOAP, NIC
1006.2	DISPENSER, PAPER TOWELS
1006.3	DISPENSER, SANITARY WIPINGS
1015.1	WALL MOUNTED SHARPS CONTAINER
2200.0	SINK + FAUCET

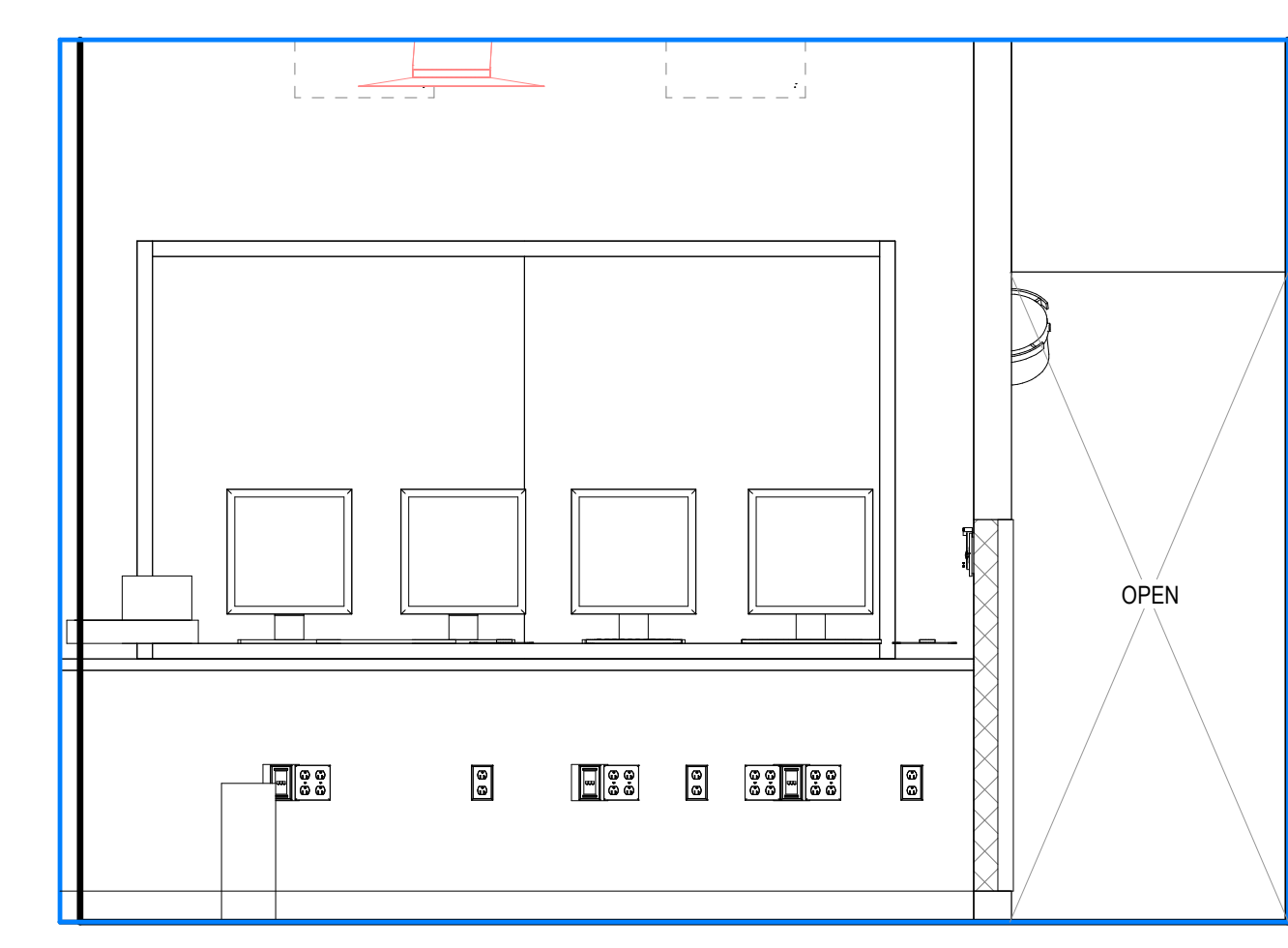
EQUIPMENT SCHEDULE	
TYPE MARK	TYPE DESCRIPTION
CK1	CLOCK
CO2.1	GEN - COMPUTER WORKSTATION - SINGLE MONITOR (DESKTOP)
D14	MED - DISPENSER HAND SANITIZER-WALL
D17	MED - GLOVE DISPENSER HORIZONTAL - TRIPE
D127	GEN - DISPENSER DISINFECTANT WIPES-WALL
DS3	MED - DISPENSING SYSTEM MEDICATION-QUARTER HEIGHT CABINET-COUNTER
TE1	GEN - TELEPHONE-WALL
WH1.1	MED - WASTE-BIO HAZARD - STEP ON (8 GAL.)
WH3	MED - HAMPER-LINEN
WH4.1	MED - SHARP CONTAINER-WALL (2 GAL.)
WH3	GEN - WASTE CAN-23 GAL. (STANDARD)

GLAZING TYPE LEGEND	
MARK	DESCRIPTION
①	LEAD LINED GLAZING/SEE RADIATION SHIELDING REPORT
②	T INDICATES TEMPERED GLASS

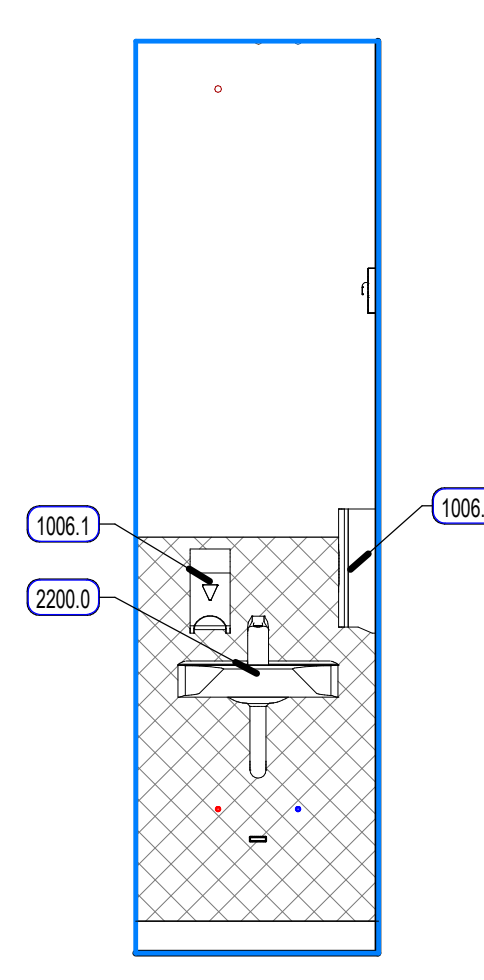
NOTE:
WINDOW TYPE QUANTITIES PROVIDED FOR CONVENIENCE. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE QUANTITIES OF EACH WINDOW TYPE.

REV	DATE	DESCRIPTION

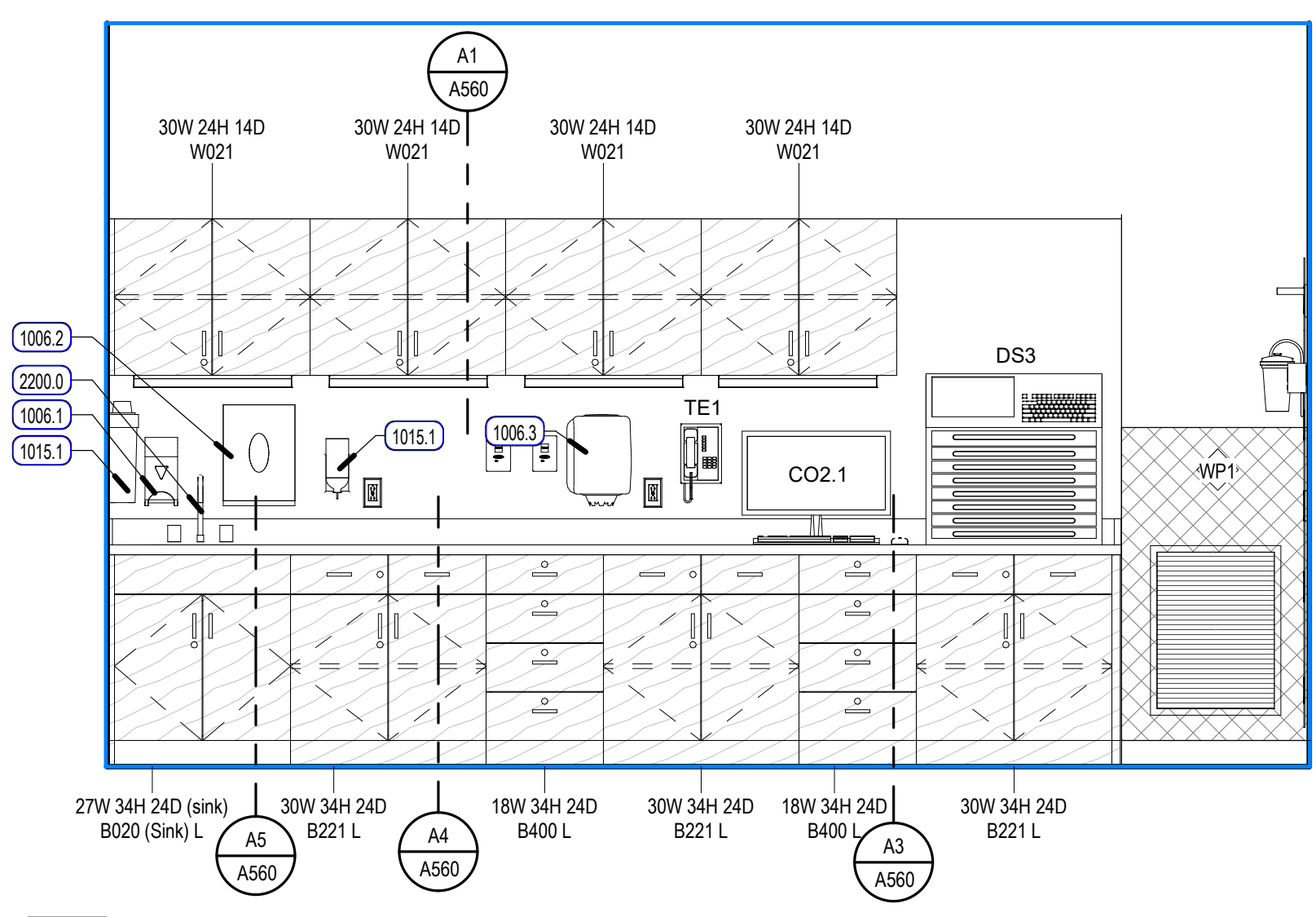
VCBO NUMBER: 22305
DATE: 05/31/2022



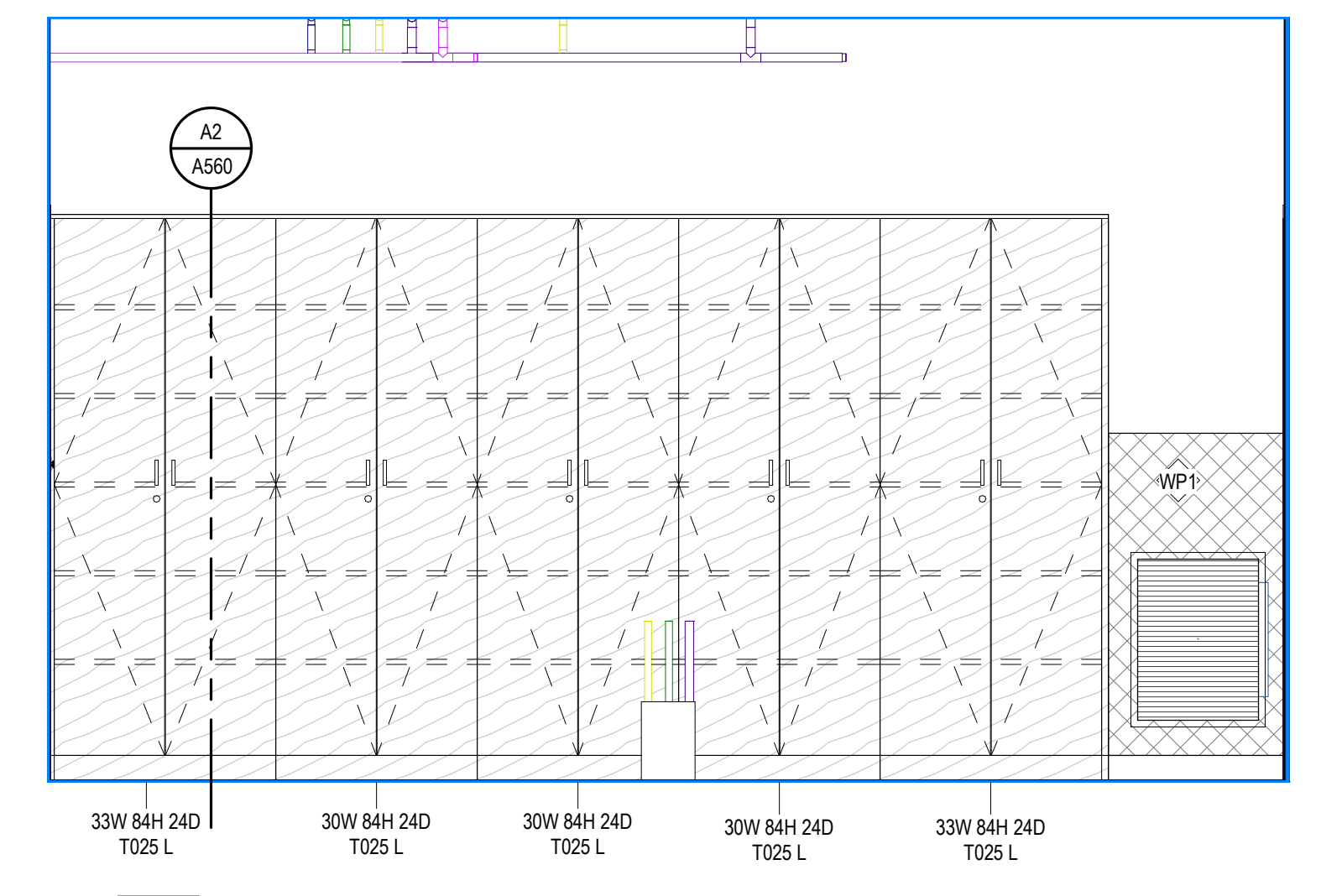
D1 CONTROL ROOM 213 - EAST
SCALE: 1/2" = 1'-0"



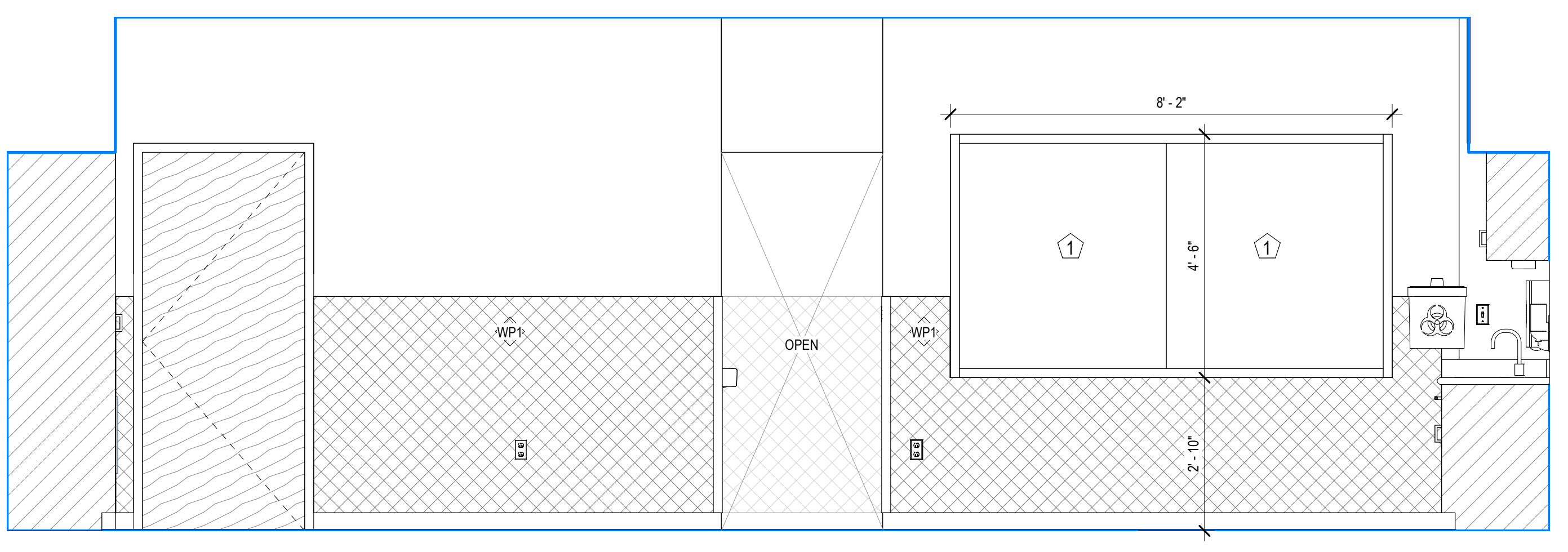
D2 CONTROL ROOM 213 - SOUTH
SCALE: 1/2" = 1'-0"



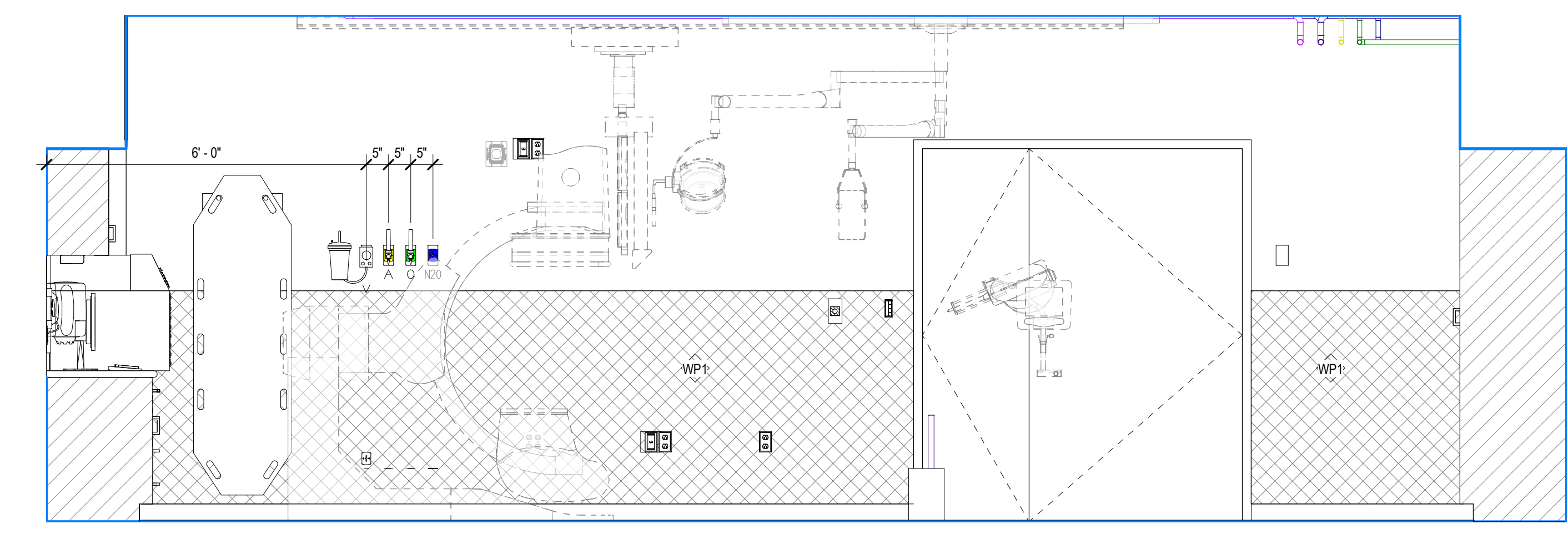
C1 MINOR PROCEDURE 212 - NORTH
SCALE: 1/2" = 1'-0"



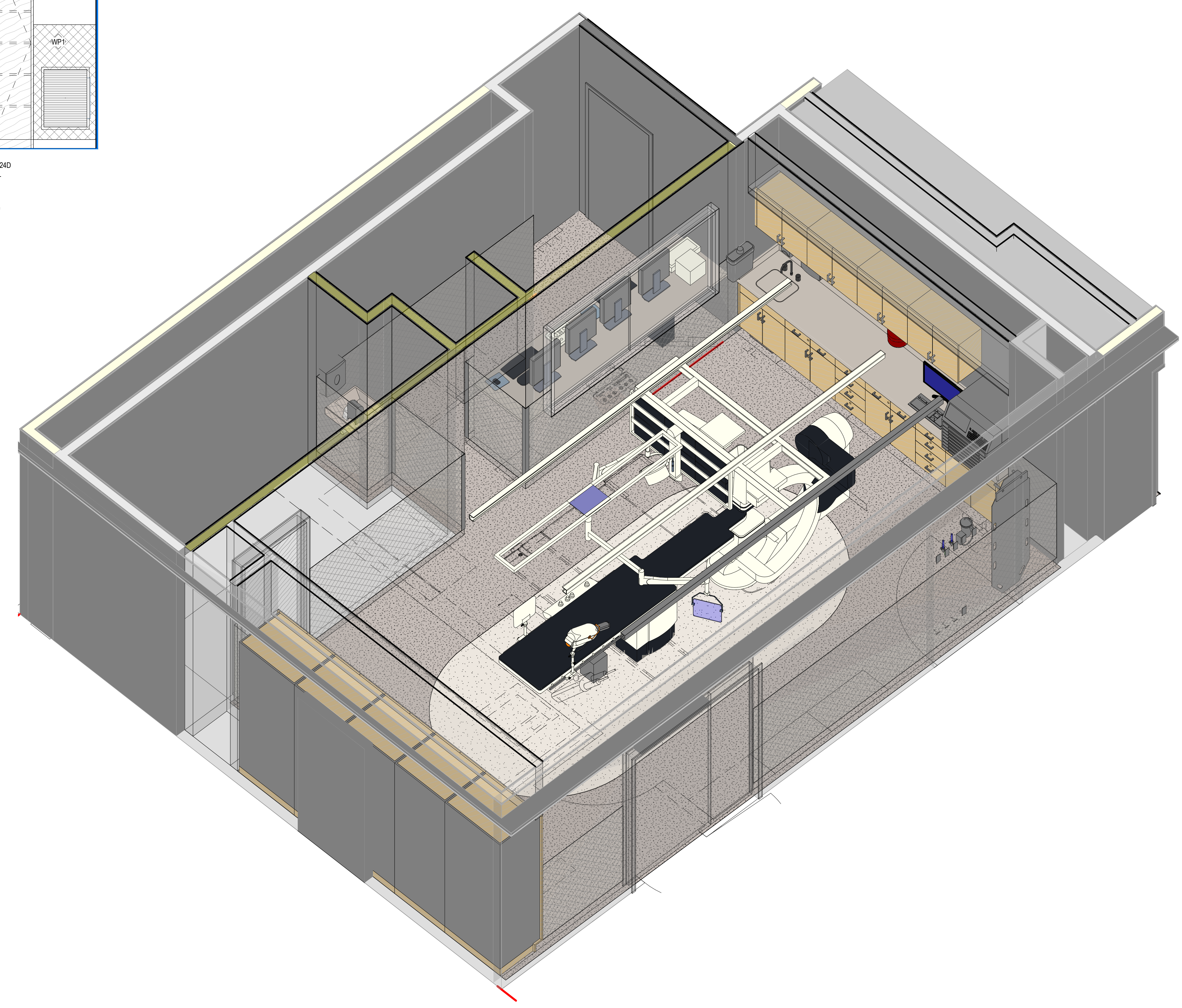
C2 MINOR PROCEDURE 212 - SOUTH
SCALE: 1/2" = 1'-0"



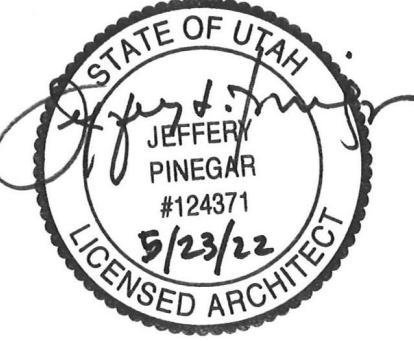
B1 MINOR PROCEDURE 212 - WEST
SCALE: 1/2" = 1'-0"



A1 MINOR PROCEDURE 212 - EAST
SCALE: 1/2" = 1'-0"



A4 MULTI-PURPOSE IMAGING ROOM - 3D VIEW
SCALE: 1/2" = 1'-0"



REV	DATE	DESCRIPTION

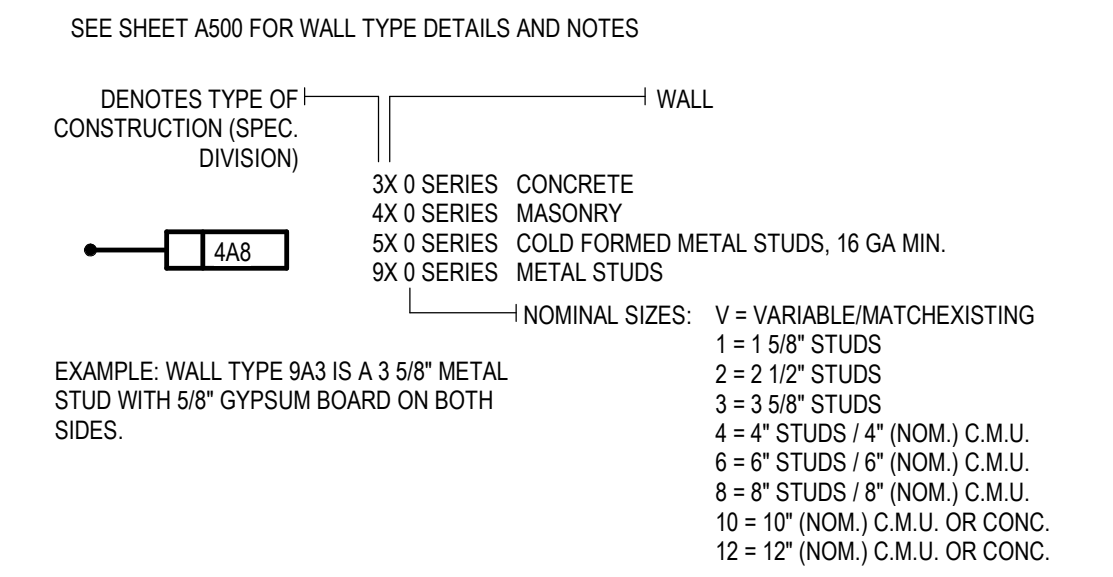
VCBO NUMBER: 22305
DATE: 05/31/2022

PARTITION + FRAMING GENERAL NOTES

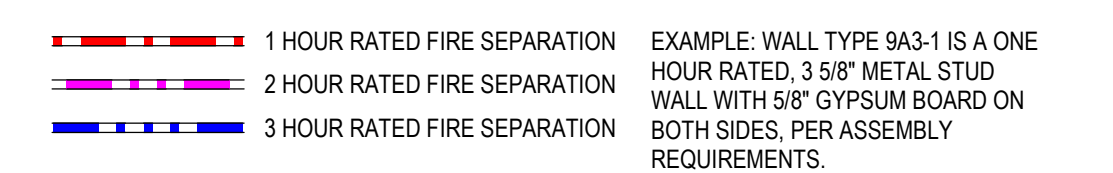
FRAMED WALL PARTITIONS

- PARTITION TYPE INDICATIONS ARE INDEPENDENT OF APPLIED FINISHES. SEE FINISH SHEETS AND INTERIOR ELEVATIONS FOR WALL FINISHES INCLUDING TILE COURSING AND LAYOUT AND/OR THE DESIGNATIONS ON THE PLANS FOR ADDITIONAL INFORMATION REGARDING APPLIED FINISHES.
- WHERE PARTITION TYPE DESIGNATION ON FLOOR PLANS IS INTERRUPTED BY DOOR OPENING, GLAZED PARTITION, ETC. CONSTRUCTION ABOVE INTERRUPTION (AND WHERE APPLICABLE BELOW) IS TO BE THE SAME AS THAT DESIGNATED FOR THE PARTITION IN WHICH THE INTERRUPTION OCCURRED.
- THE MINIMUM REQUIREMENTS FOR CONSTRUCTION OF EACH PARTITION TYPE AS EXPRESSED BY THE INDICATED REFERENCE ARE INCORPORATED BY REFERENCE AND ARE APPLICABLE TO THE WORK OF THIS PROJECT. HOWEVER, ADDITIONAL AND/OR MORE STRINGENT REQUIREMENTS MAY BE INDICATED BY THE SPECIFICATIONS AND DRAWINGS. SUCH REQUIREMENTS ALSO APPLY AND SHALL GOVERN. SUCH REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO:
 - USE 5/8" THICK GYPSUM BOARD THROUGHOUT UNLESS NOTED OTHERWISE.
 - USE 16" OC MAX STUD SPACING UNLESS NOTED OTHERWISE IN THESE DOCUMENTS. THE SPACING STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MAX SPACING IF ALLOWED IN THESE DOCUMENTS.
 - USE STUDS OF GAUGE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS. THE GAUGE STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM GAUGE TESTED. 30 GA (30 MILS) IS THE MINIMUM ALLOWED IN THESE DOCUMENTS.
- USE STUDS OF DEPTH INDICATED BY THIS SET OF DOCUMENTS. THE DEPTH STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM DEPTH TESTED DEPTH ALLOWED IN THESE DOCUMENTS. SEE STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION PERTAINING TO THE CONSTRUCTION OF CONCRETE, MASONRY AND STUD WALLS.
- PROVIDE FIRE RATED CONSTRUCTION ASSEMBLIES WHERE INDICATED ON SHEETS G100s AND FLOOR PLAN DRAWINGS.
- ALL DIMENSIONS ARE CENTER OF STUD OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. FACE OF FINISHED WALL WILL BE NOTED AS FOW.
- AT ALL INTERIOR WALLS, STUDS, INSULATION AND GYPSUM BOARD ARE TO EXTEND TO THE DECK ABOVE. UNLESS NOTED OTHERWISE.
- WALL TYPES NOT NOTED ARE ASSUMED TO MATCH ADJACENT ROOMS. SEE SHEETS FOR FINISHES, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- ALL METAL STUD PARTITIONS ARE CONSIDERED ACOUSTIC PARTITIONS AND ARE TO RECEIVE A TYPE 1 SOUND ATTENUATION BLANKET. THICKNESS TO MATCH STUD DEPTH, UNLESS NOTED OTHERWISE.
- REFER TO SHEET A500 FOR TYPICAL INTERIOR WALL CONDITIONS ASSOCIATED WITH ALL METAL STUD PARTITIONS.
- PROVIDE CONTROL JOINTS IN METAL FRAMED WALLS AT APPROXIMATELY 30 FEET ON CENTER. LOCATE AT CORNER ABOVE DOORS OR INSIDE CORNER OF PLASTER OR OTHER INCONSPICUOUS LOCATION WHERE POSSIBLE. CONSULT WITH ARCHITECT PRIOR TO COMMENCING FRAMING. INSTALL PER DETAILS 33, 34, AND 35 FOR CONTROL JOINTS.
- AT WALL OPENINGS FOR PENETRATION OF PIPES, DUCTS, DEVICES, ETC., GYPSUM BOARD IS TO BE CUT TO MATCH THE SHAPE AND DIMENSION OF THE PENETRATING OBJECT AND THE GAP BETWEEN THE OBJECT AND THE WALL IS TO BE SEALED WITH ACOUSTICAL OR FIRE SEALANT ON ALL SIDES WITH A 3/4" JOINT AT ALL SIDES. MAXIMUM THE OPENING FOR DUCTS OR LARGE PENETRATIONS SHALL BE FRAMED WITH A HEADER, ADD AN ANGLED CORNER BRACE IF THE GAP EXCEEDS 3" FROM FRAMING TO THE OPENING.
- PROVIDE BLOCKING / BACKING FOR ALL WALL MOUNTED EQUIPMENT. SEE FLOOR PLANS AND INTERIOR ELEVATIONS FOR CABINETS, GRAB BARS ETC. INSTALL BLOCKING AS DETAILED OR AS REQUIRED TO MOUNT SUCH DEVICES. ALL BLOCKING IS TO BE FIRE RETARDANT TREATED. INSTALL PER SHEET A500.
- INSTALL ONE LAYER OF 5/8" GLASS MAT TILE BACKER BOARD IN LIEU OF GYPSUM BOARD (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION WHERE THERE IS NO FIRE RATING AND OVER GYPSUM BOARD FACE LAYER AT FIRE RATED PARTITIONS AT THE FOLLOWING LOCATIONS.
- WHERE NEW WALLS OR FURRING ARE INDICATED TO BE DIMENSIONED OFF OF AN EXISTING WALL, THE NEW WALL SHALL BE STRAIGHT AND PLUMB REGARDLESS OF THE CONDITION OF THE EXISTING WALL.

KEY FOR PARTITION TYPES

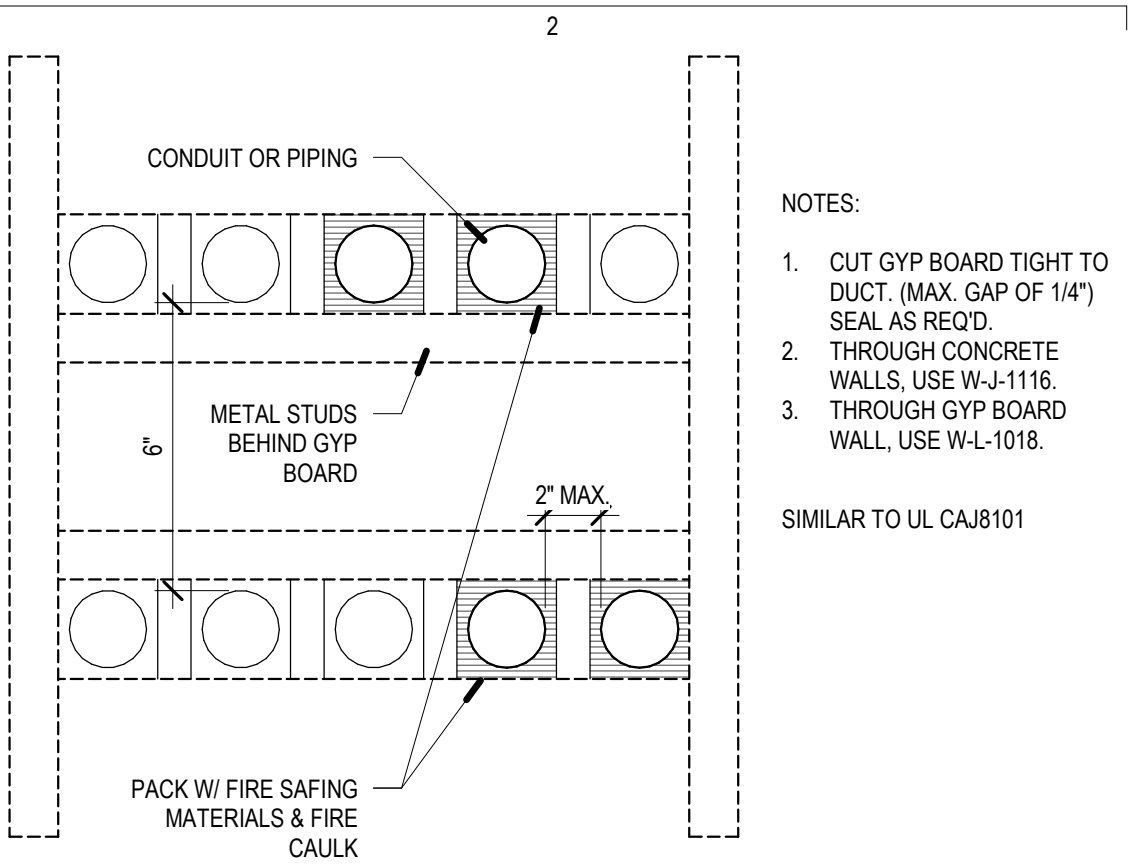


RATED WALL LEGEND

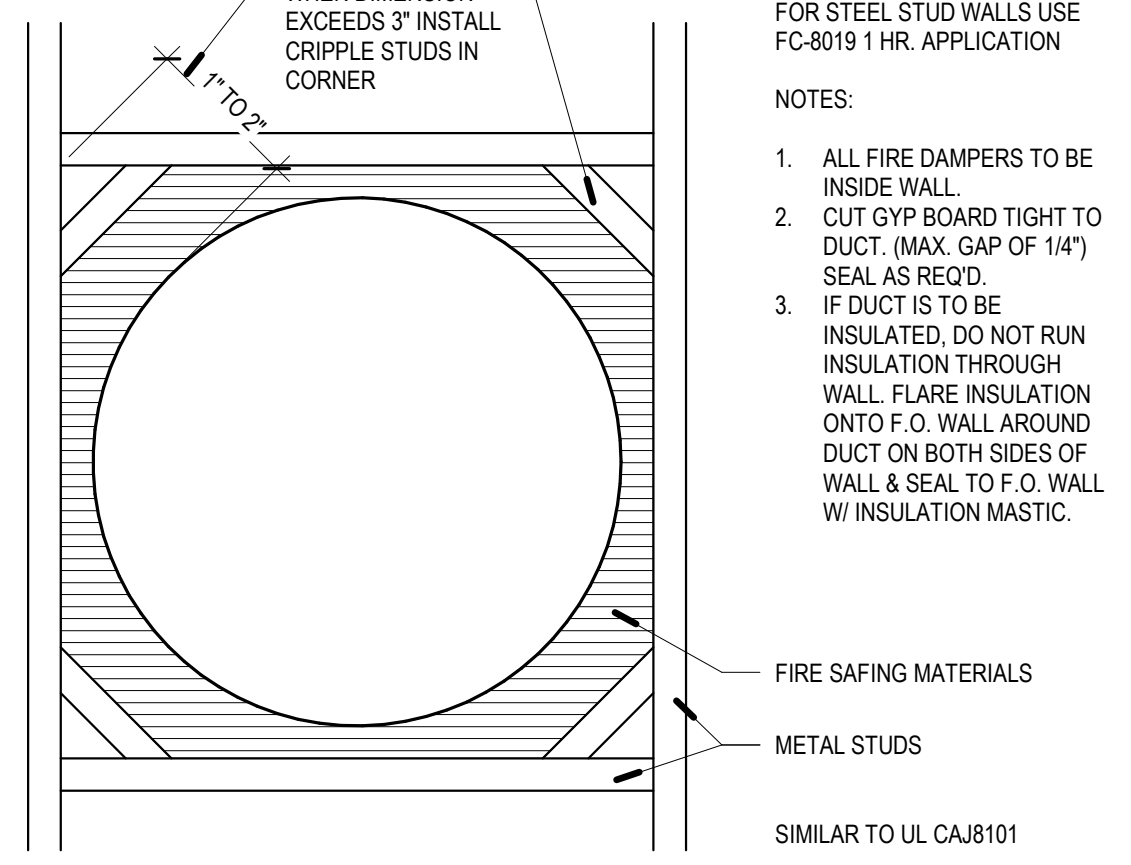


90xR SERIES

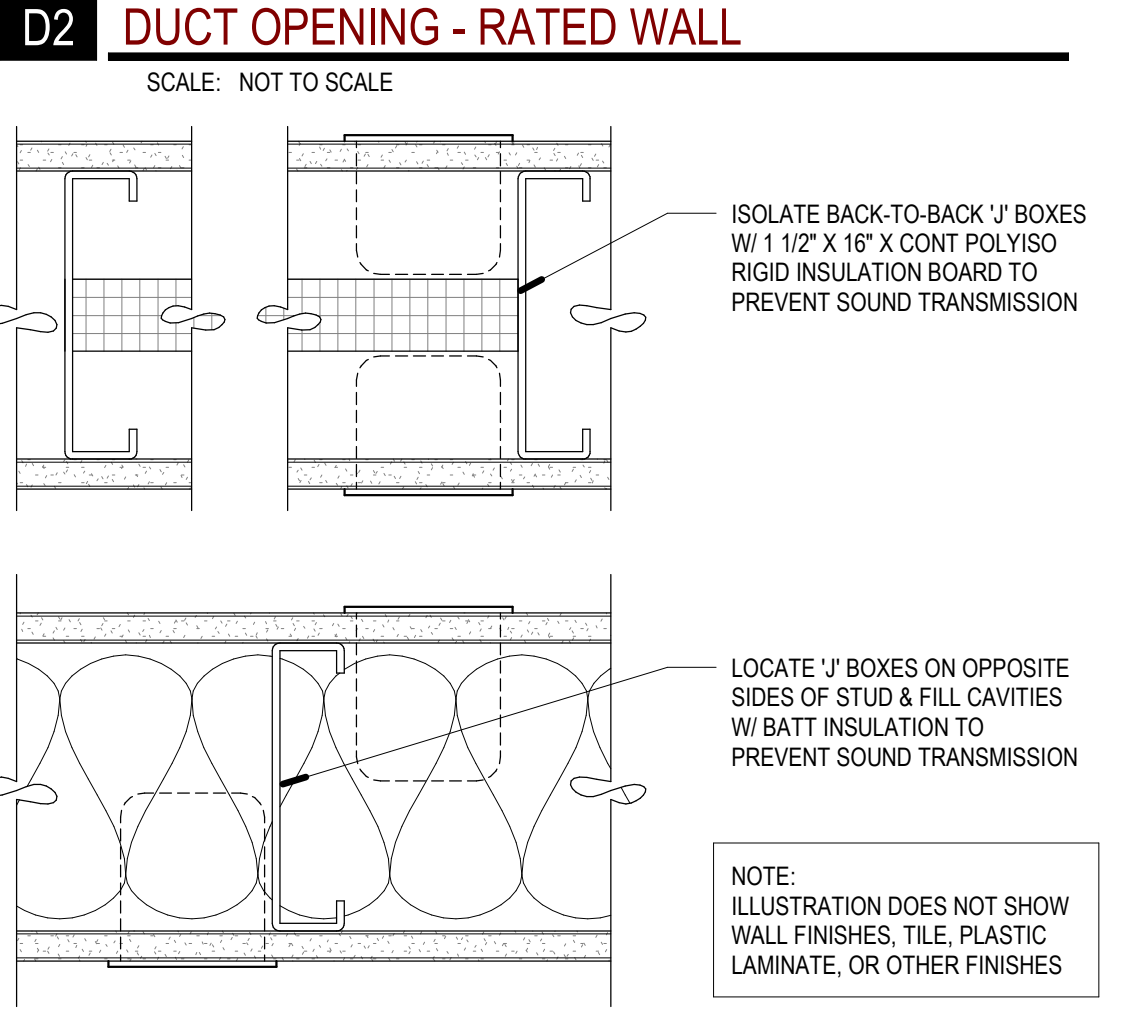
FIRE RATING (ONLY WHEN NOTED):
 1 = 1 HOUR RATED ASSEMBLY
 2 = 2 HOUR RATED ASSEMBLY
 3 = 3 HOUR RATED ASSEMBLY



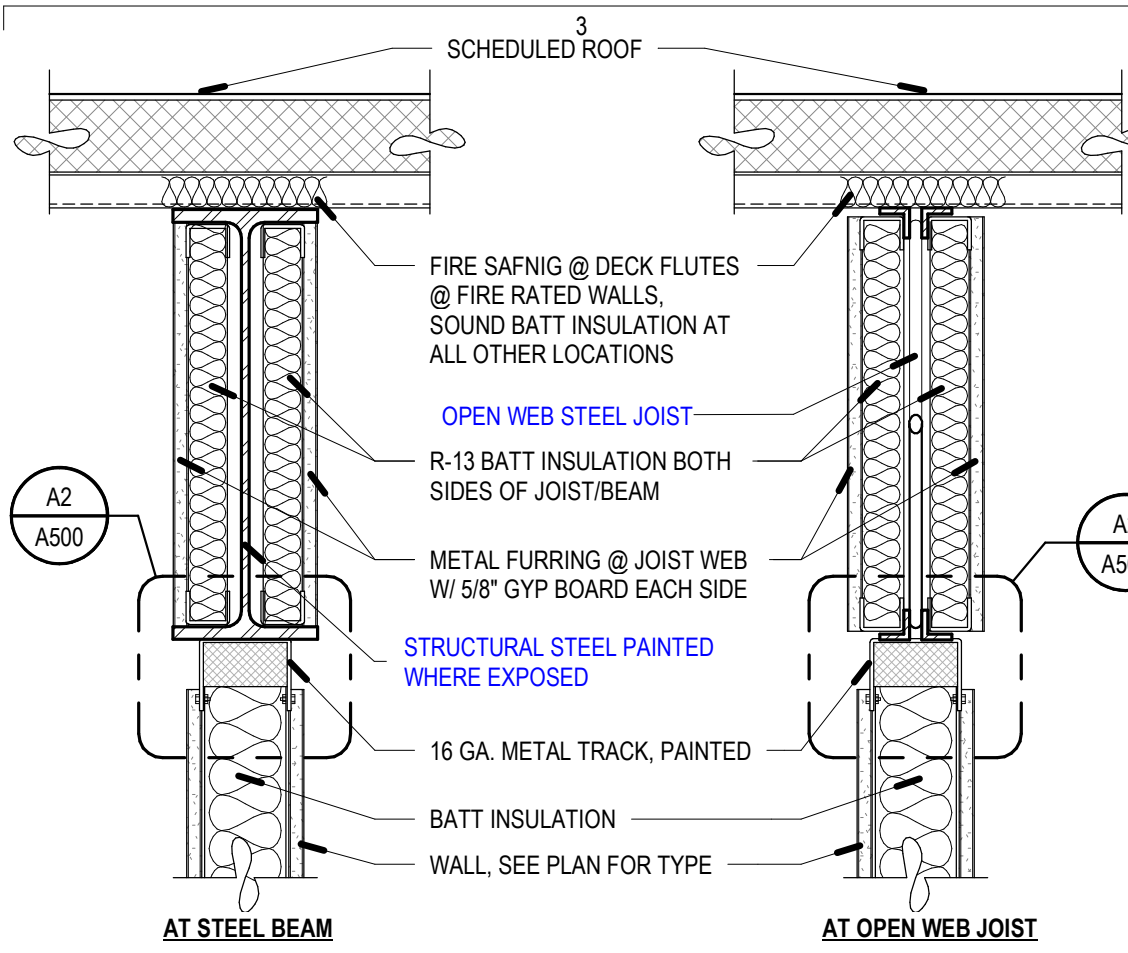
E2 CONDUIT PENETRATION
SCALE: 3" = 1'-0"



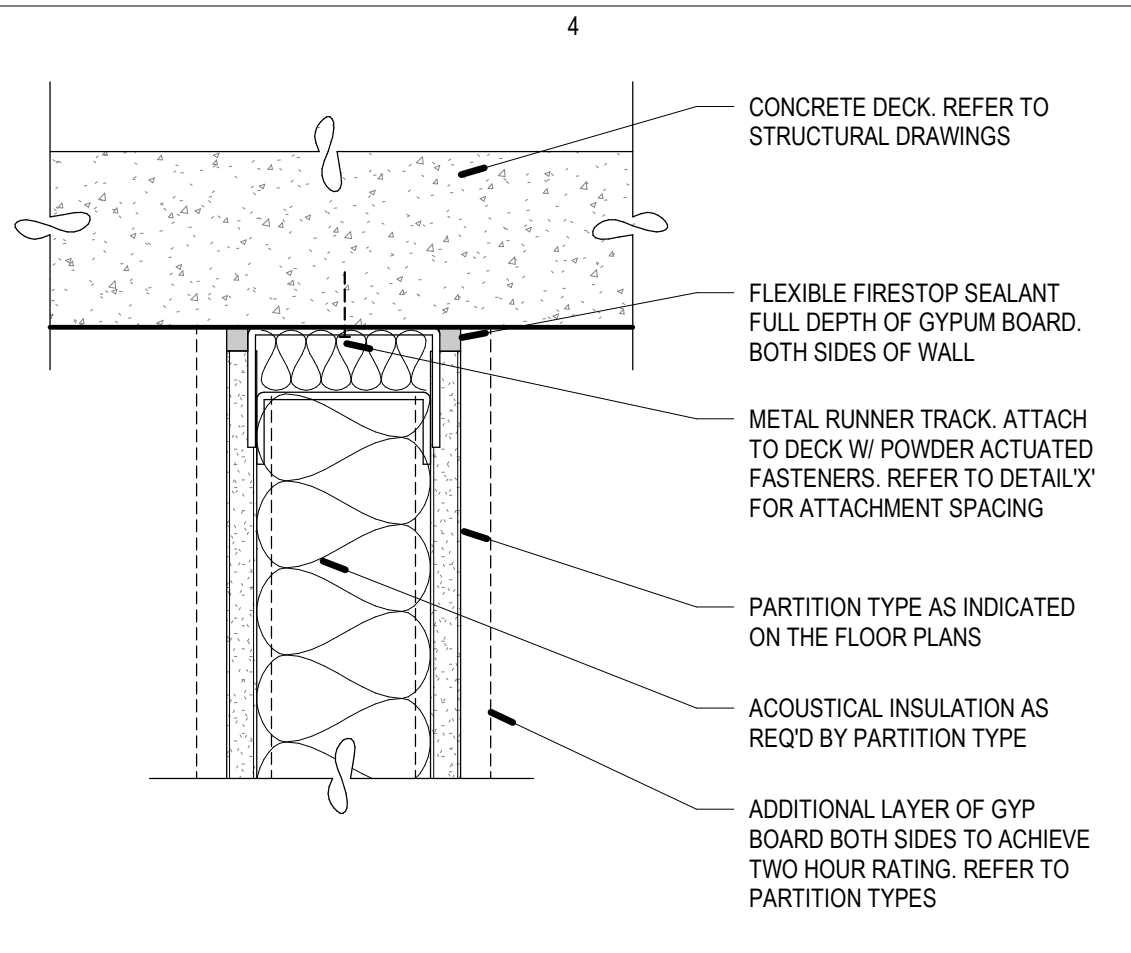
D1 LEAD LINED PARTITION - OUTSIDE CORNER DETAIL
SCALE: 3" = 1'-0"



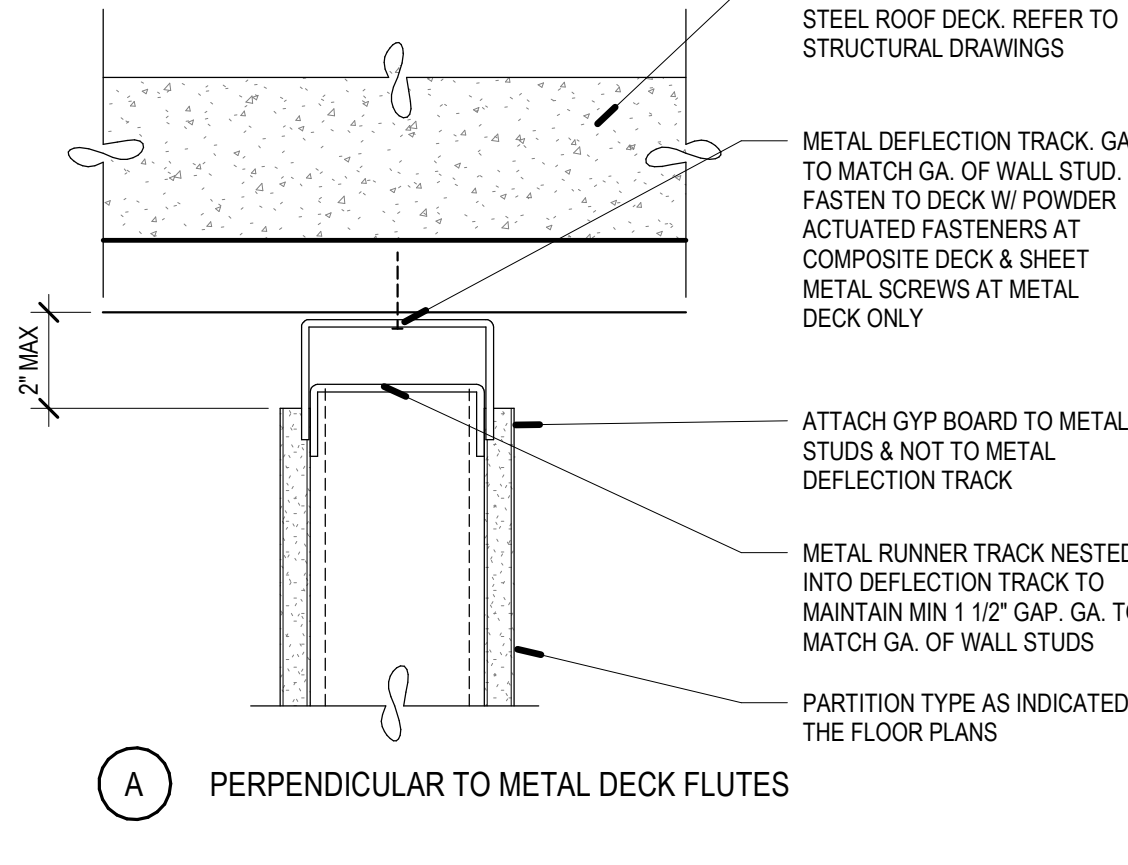
D2 DUCT OPENING - RATED WALL
SCALE: NOT TO SCALE



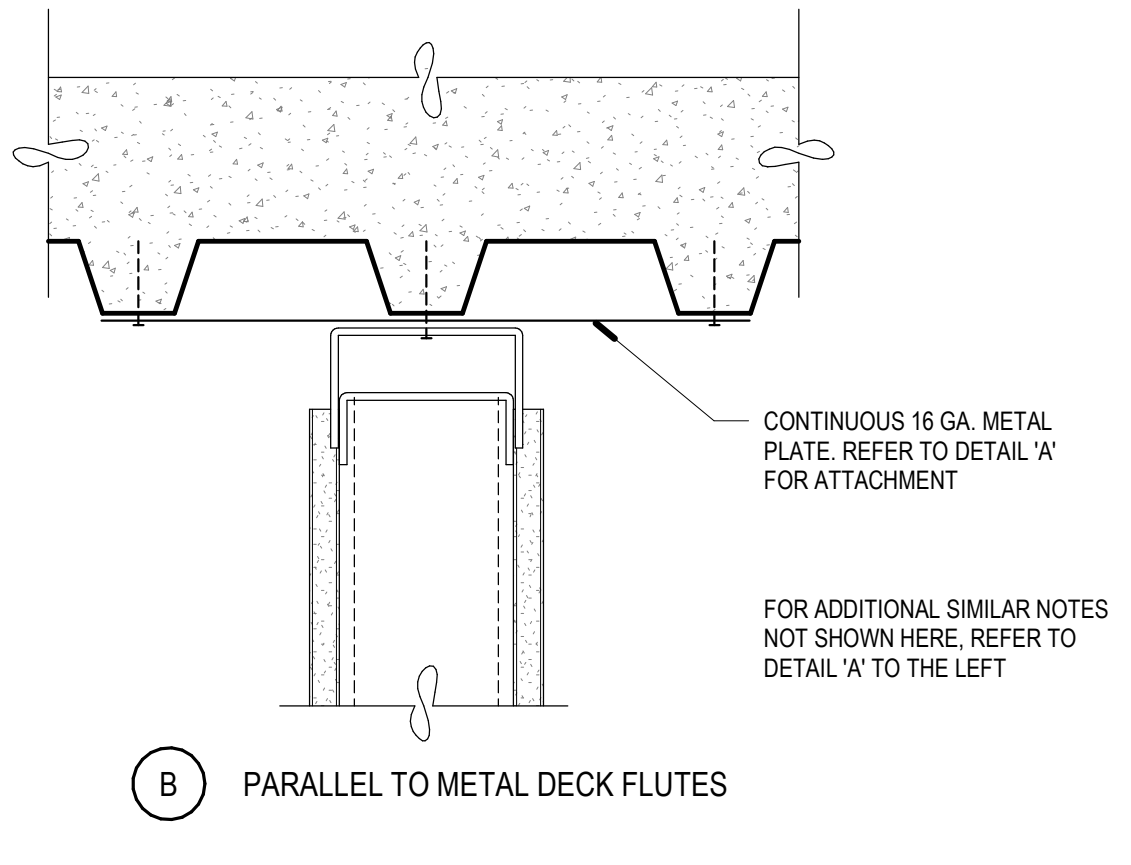
E3 SLIP JOINT - BEAM / JOIST
SCALE: 1 1/2" = 1'-0"



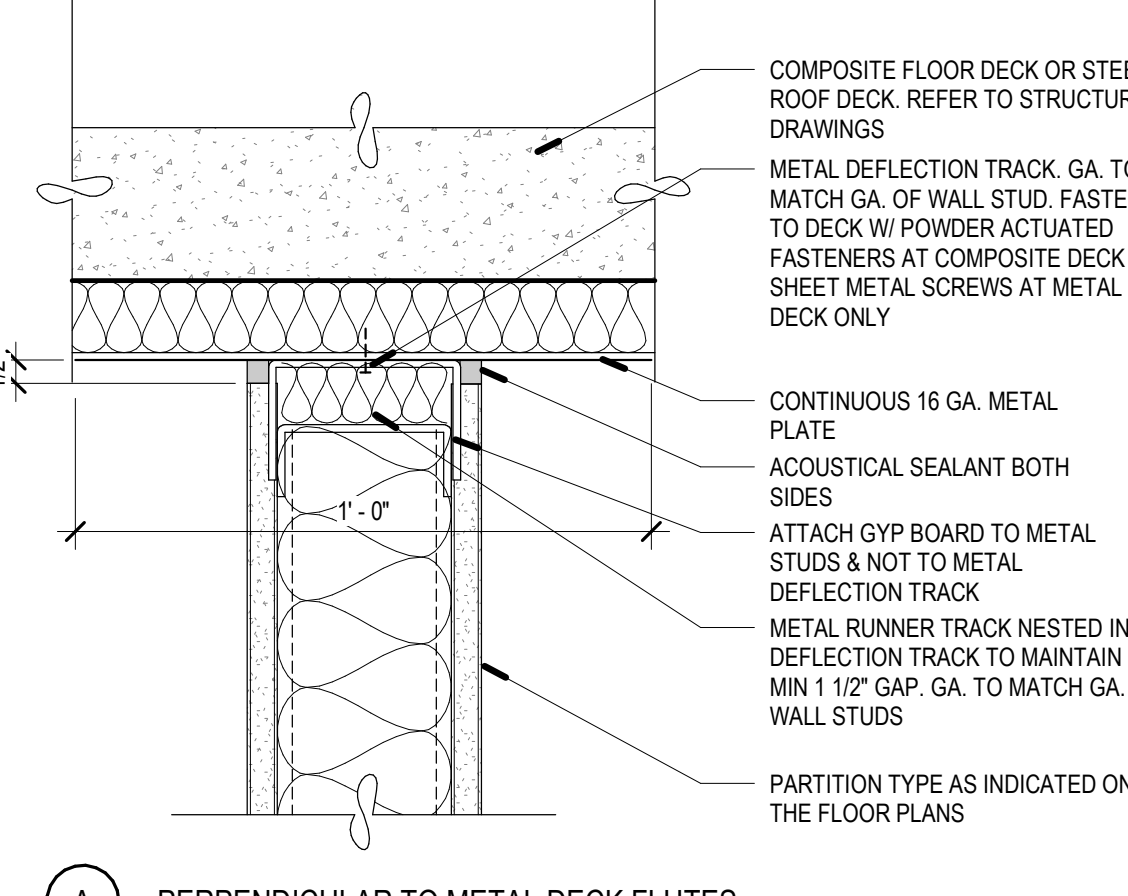
E4 PARTITION HEAD - RATED
SCALE: 3" = 1'-0"



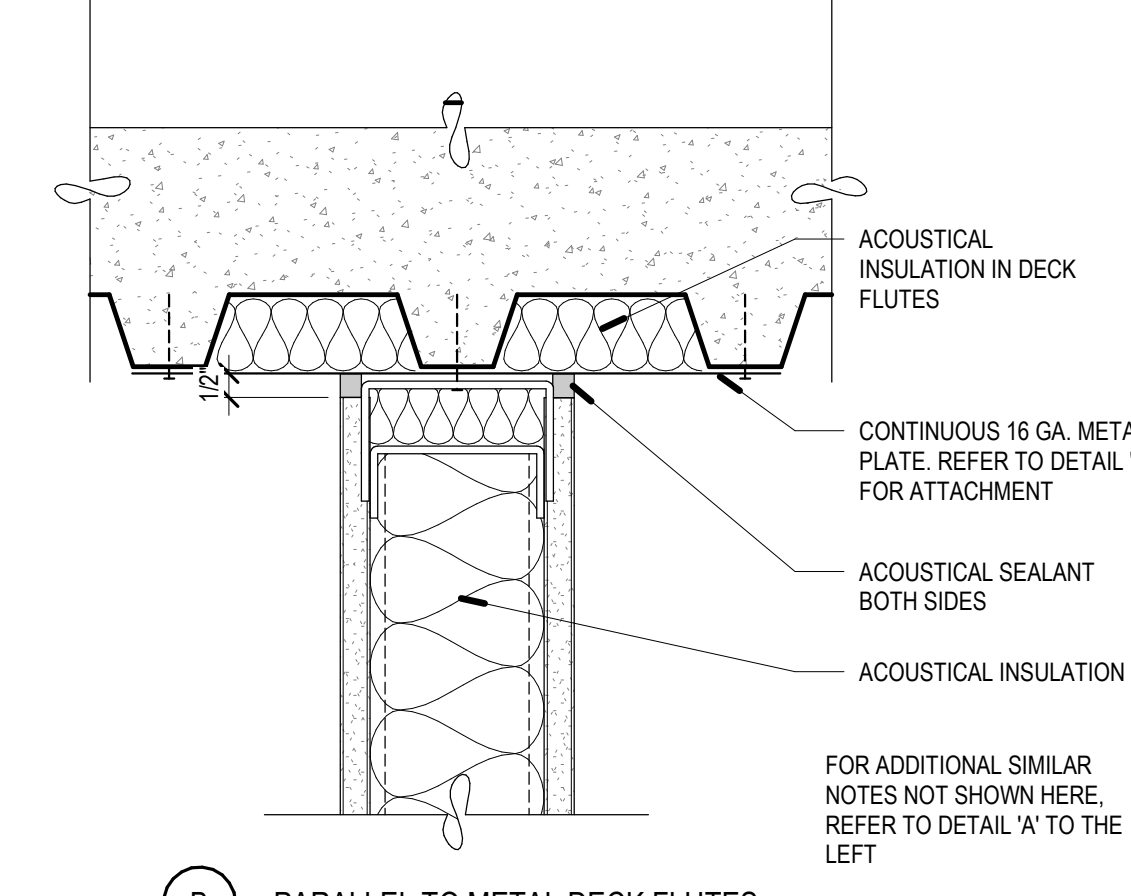
D3 PARTITION HEAD - NON-RATED
SCALE: 3" = 1'-0"



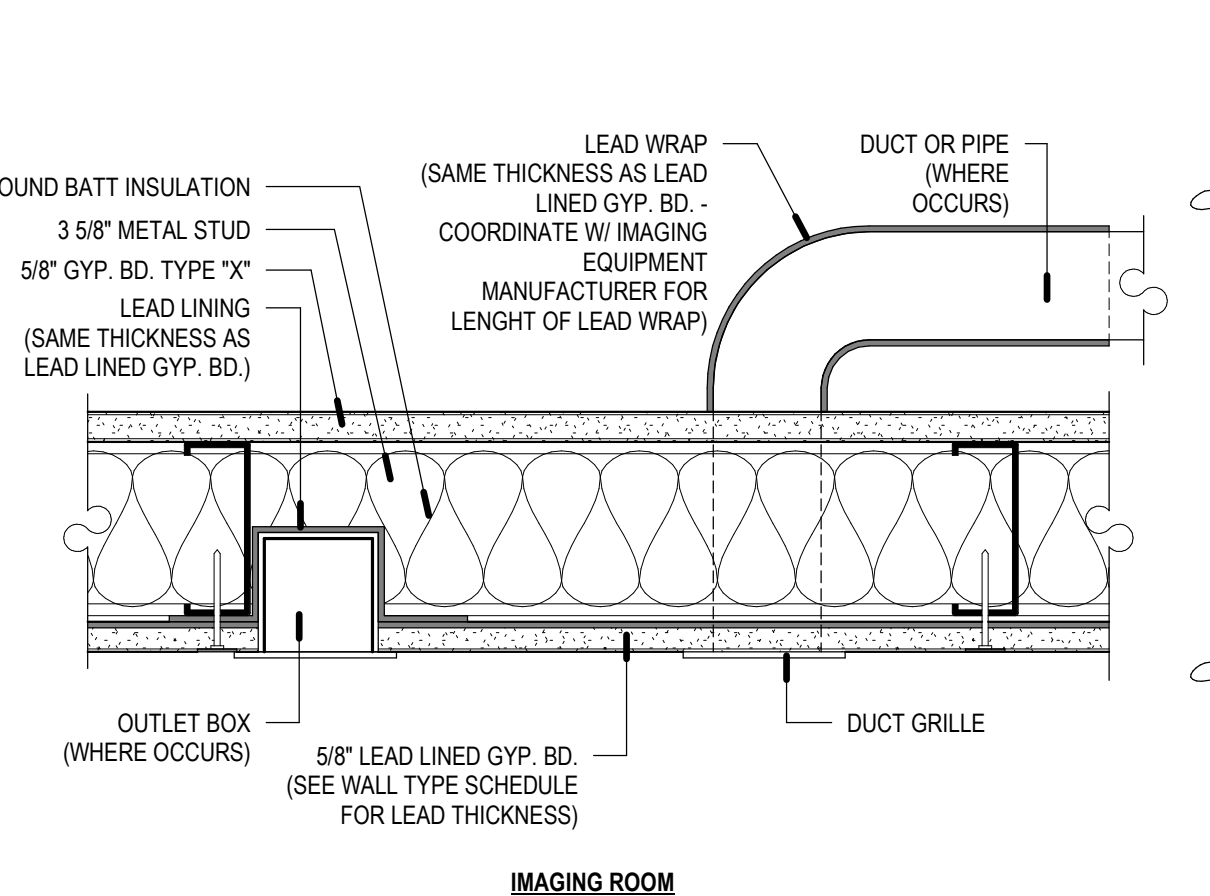
D5 PARTITION - 9Fx AND 9Fx-1 - LEAD LINED
SCALE: NOT TO SCALE



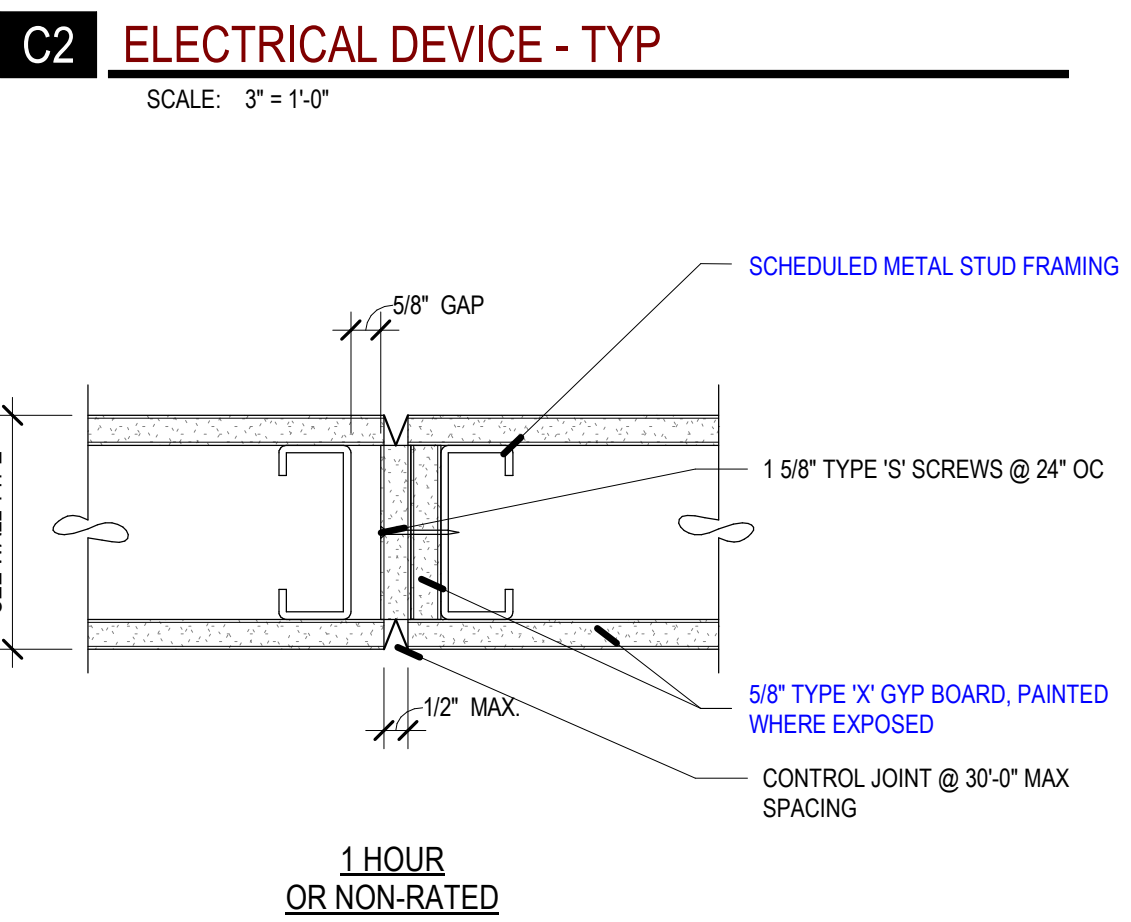
C3 PARTITION HEAD - ACOUSTIC - NON-RATED
SCALE: 3" = 1'-0"



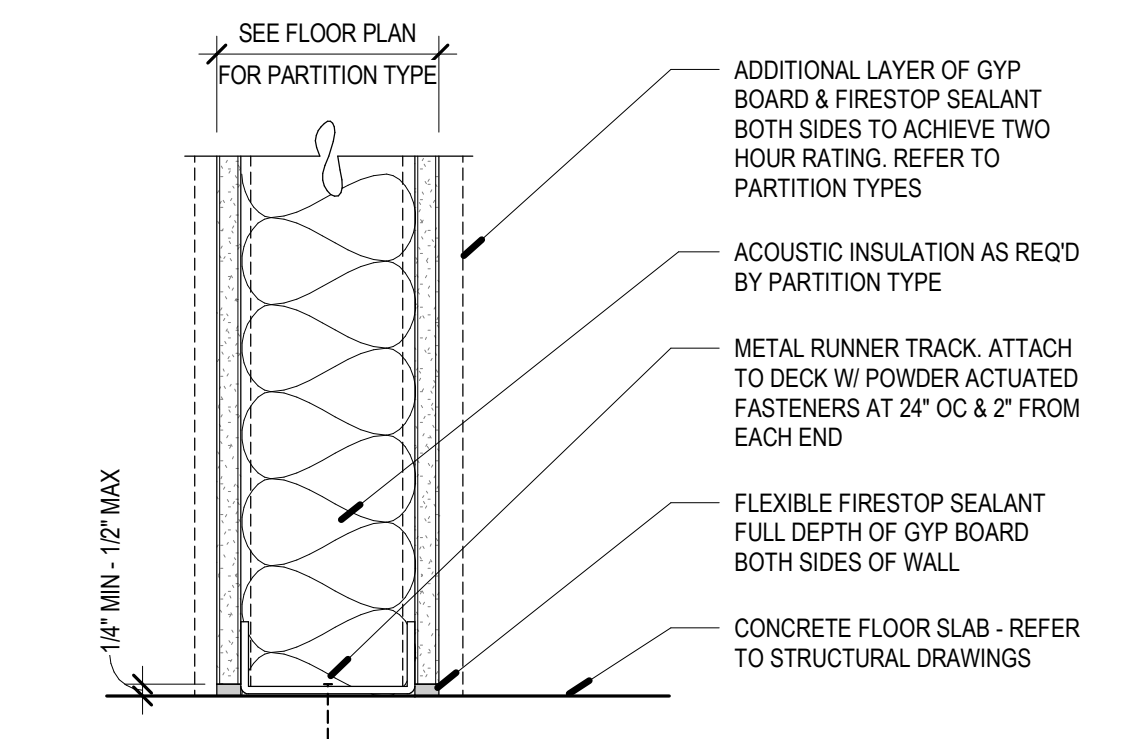
C5 PARTITION - 9Dx
SCALE: NOT TO SCALE



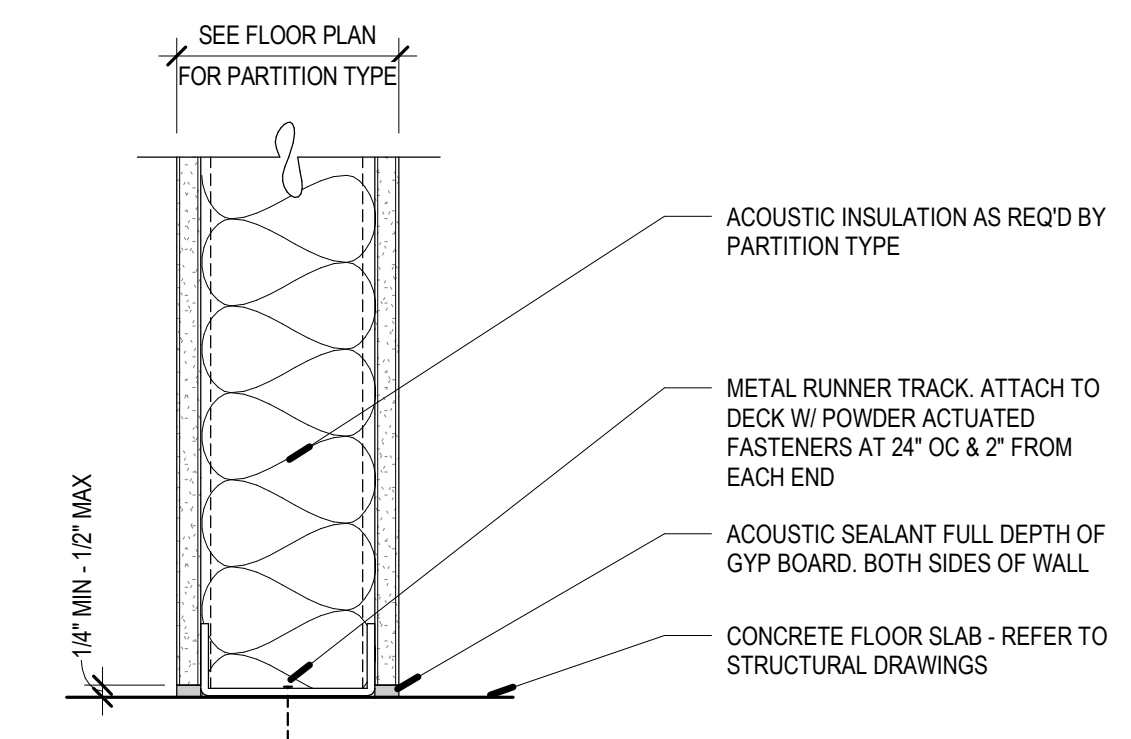
C1 LEAD LINED PARTITION - DUCT WRAP & OUTLET BOX DETAIL
SCALE: 3" = 1'-0"



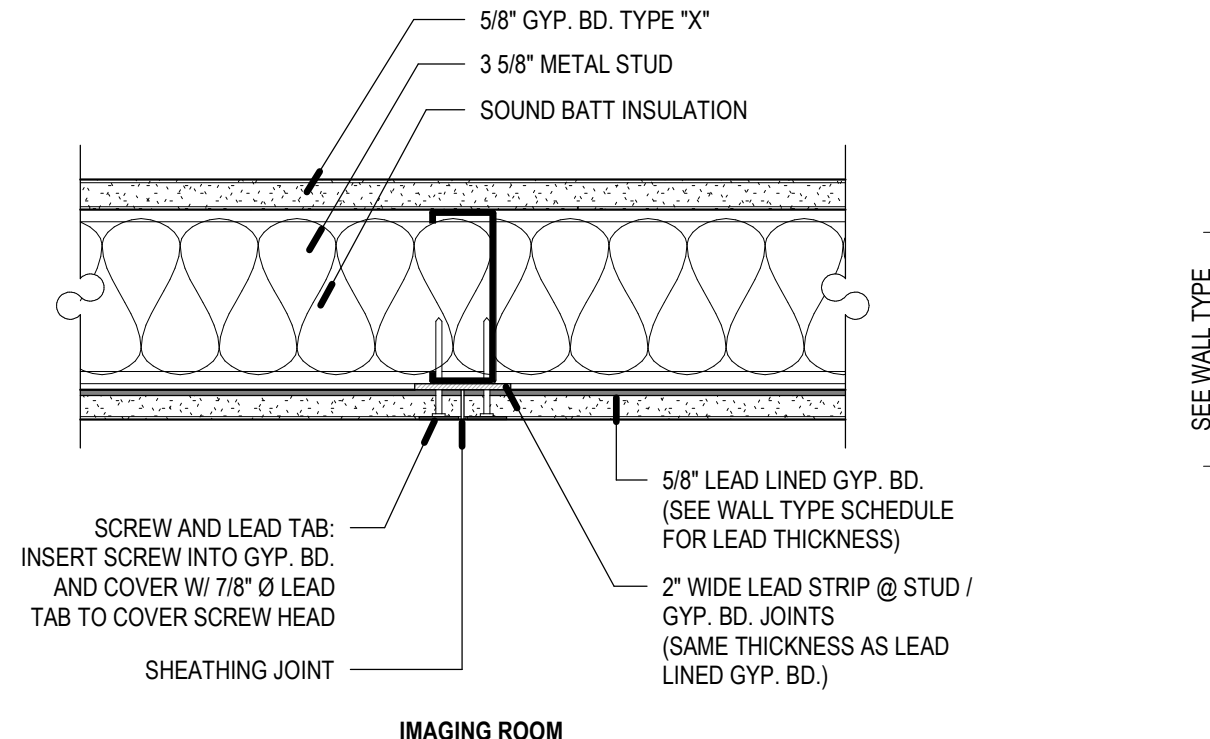
C2 ELECTRICAL DEVICE - TYP
SCALE: 3" = 1'-0"



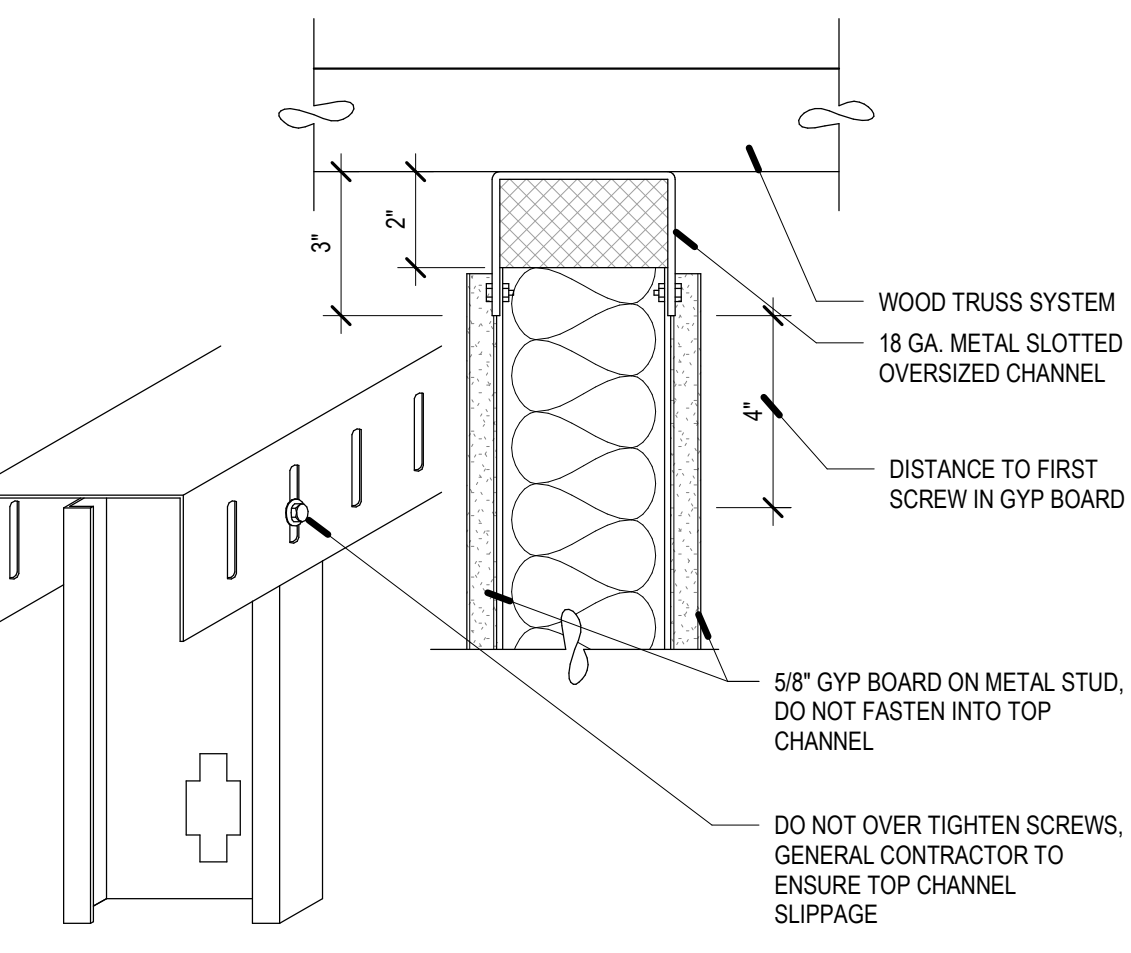
B3 PARTITION BASE - RATED
SCALE: 3" = 1'-0"



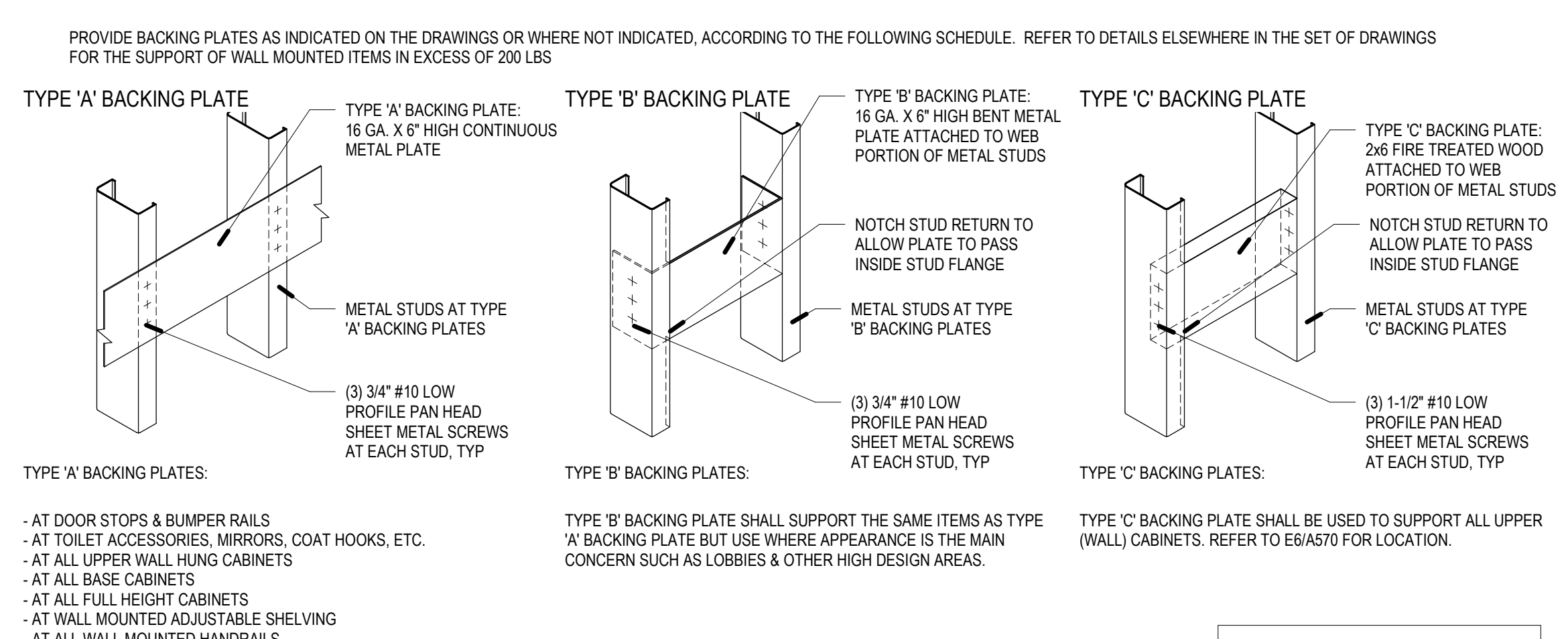
B4 PARTITION BASE - NON-RATED
SCALE: 3" = 1'-0"



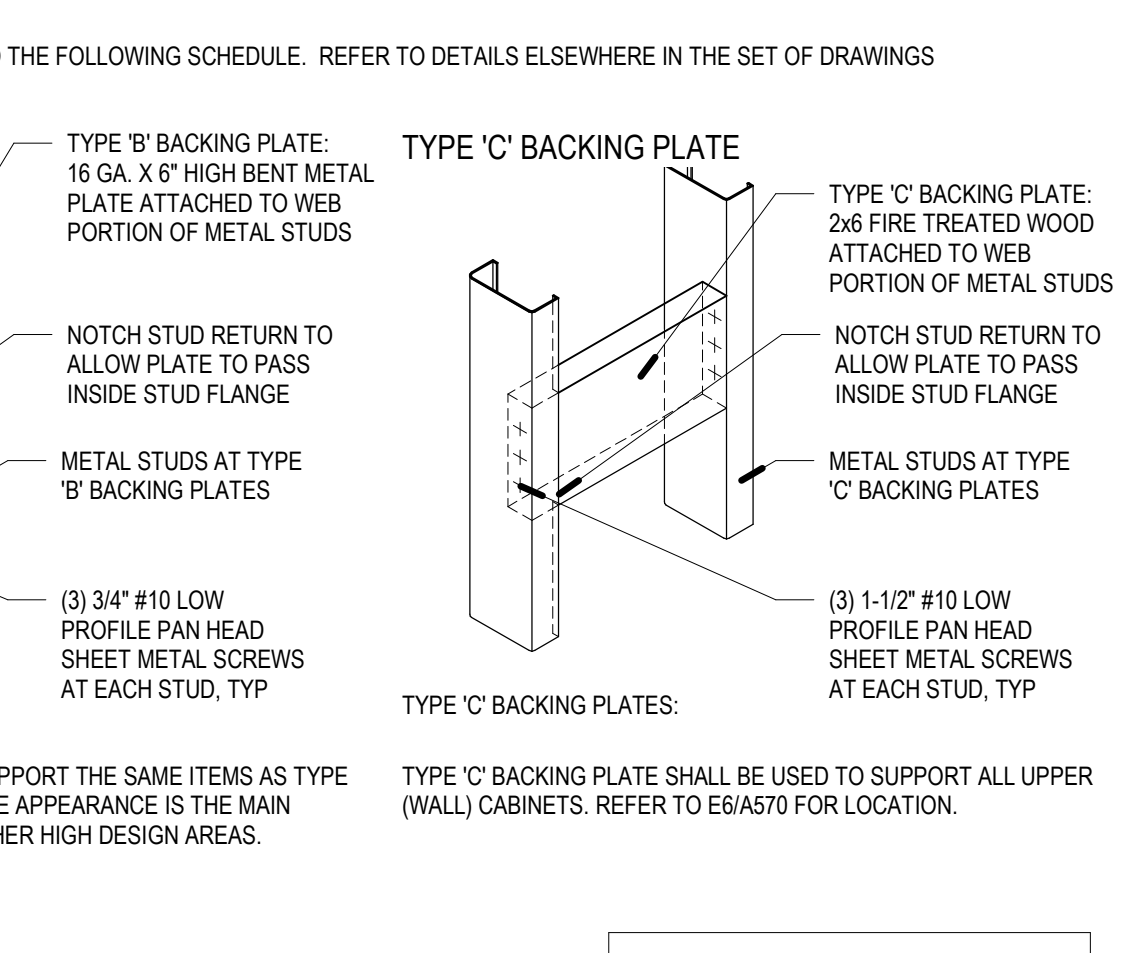
B1 LEAD LINED PARTITION - TYPICAL JOINT DETAIL
SCALE: 3" = 1'-0"



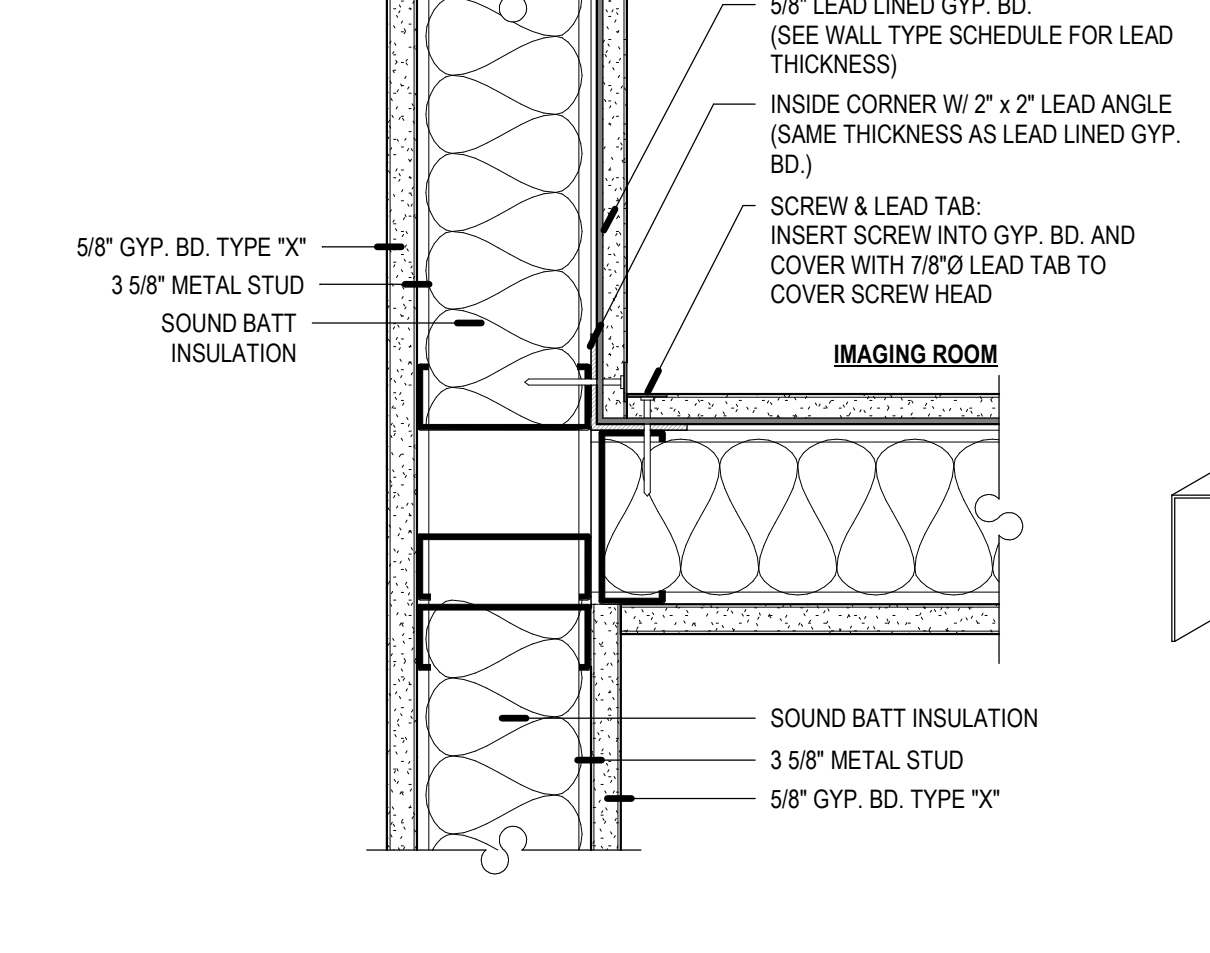
B2 CONTROL JOINT - STUD
SCALE: 3" = 1'-0"



A3 BACKING PLATE - SCHEDULE
SCALE: NOT TO SCALE



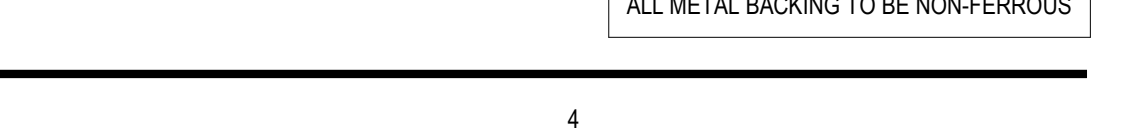
B5 PARTITION - 9Cx
SCALE: 1/2" = 1'-0"



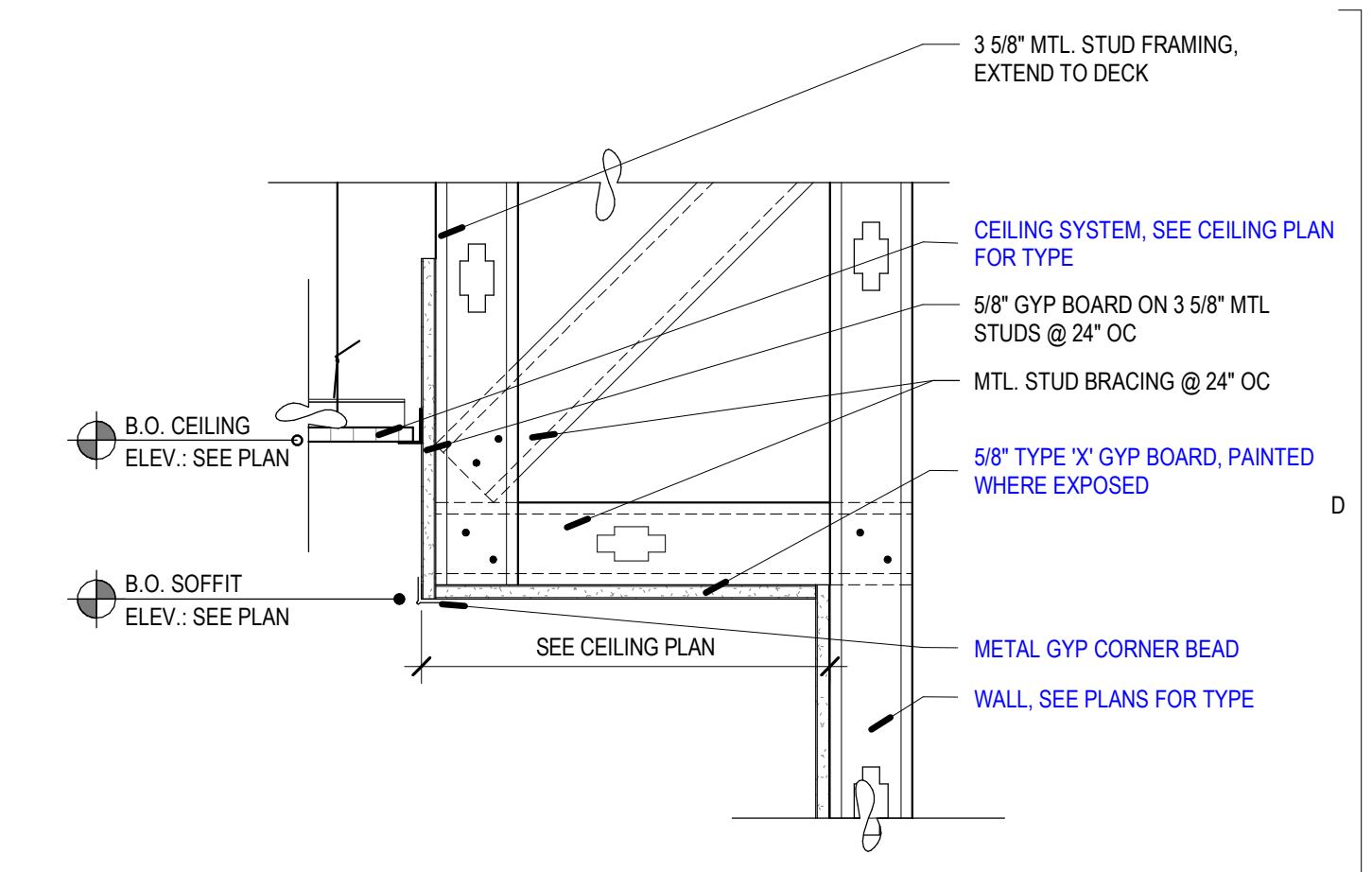
A1 LEAD LINED PARTITION - INSIDE CORNER DETAIL
SCALE: 3" = 1'-0"



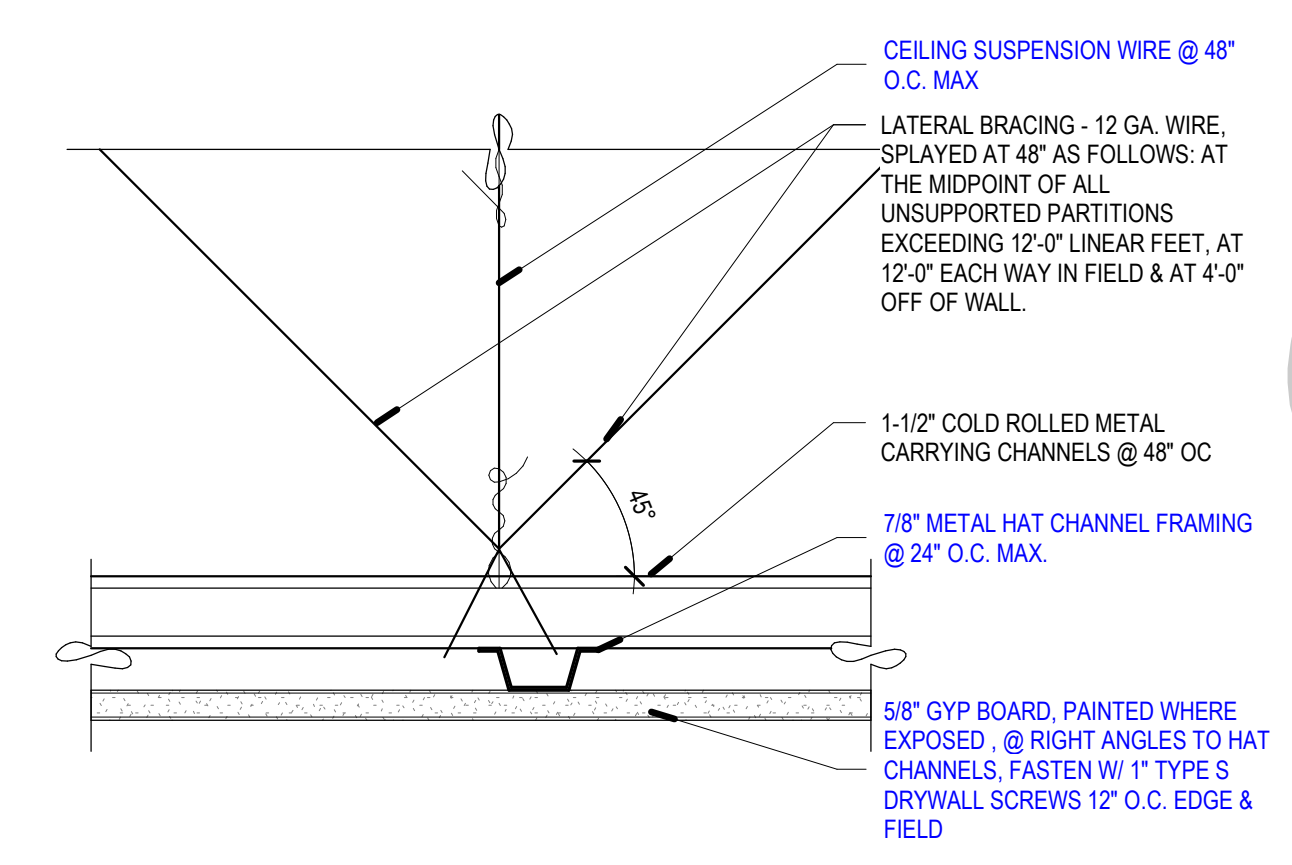
A2 PARTITION - SLIP JOINT - TYP
SCALE: 3" = 1'-0"



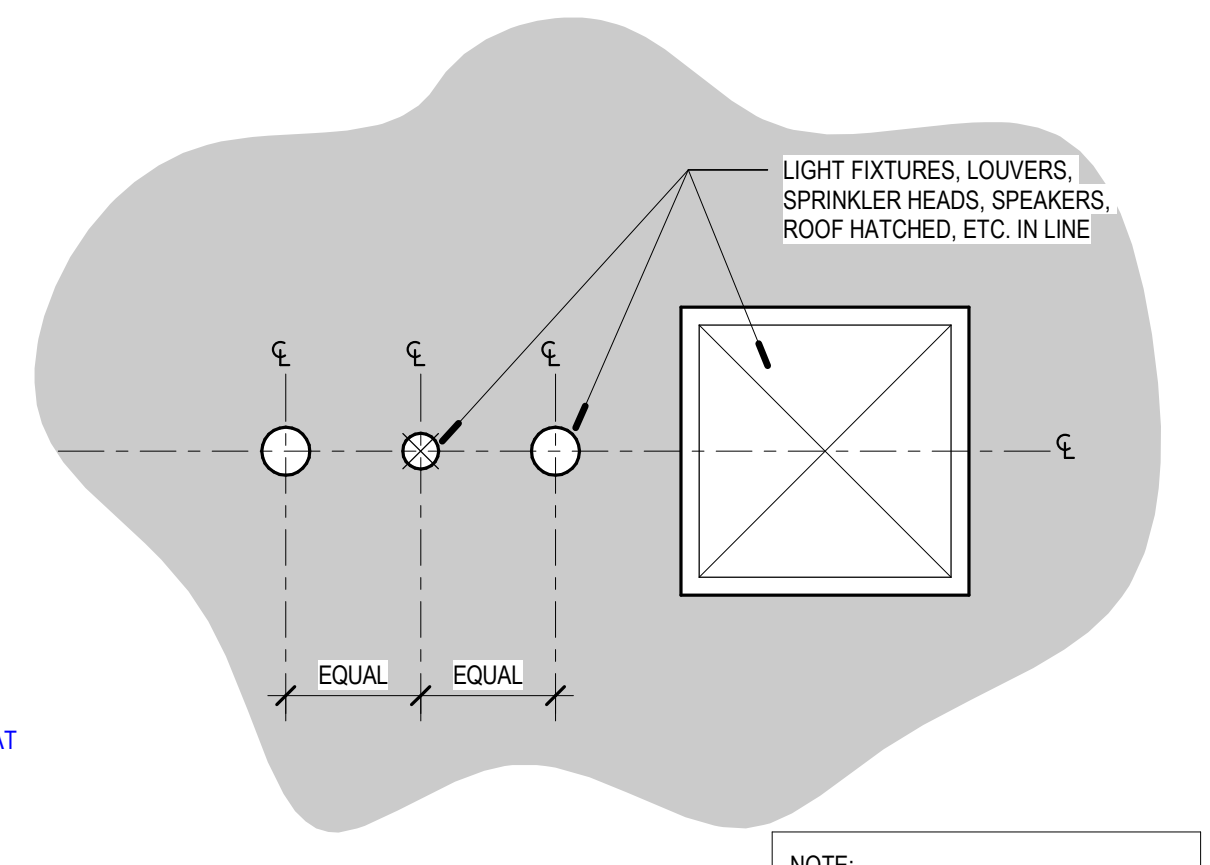
A5 9Ax AND 9Ax-1 - METAL STUD - BATT INSUL
SCALE: NOT TO SCALE



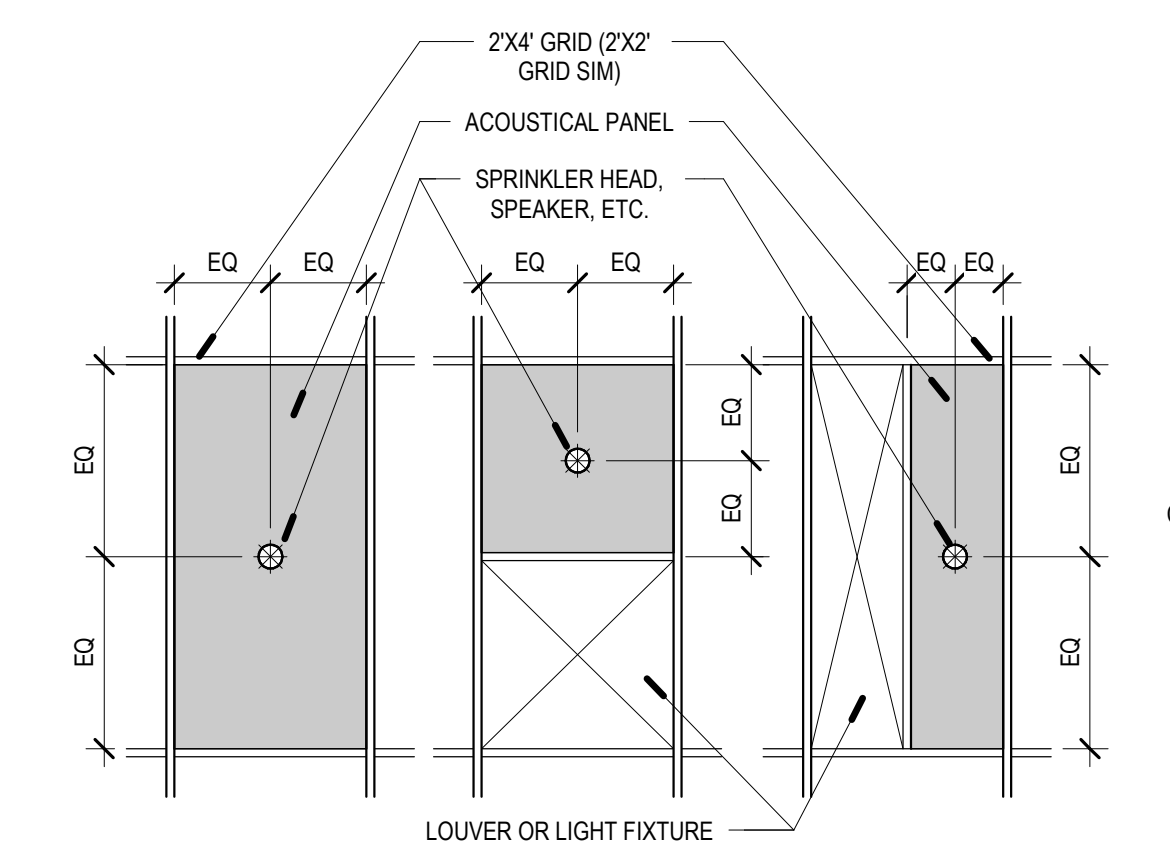
D6 SOFFIT - WALL - TYP
SCALE: 1/2" = 1'-0"



C4 SUSPENDED CEILING - GYP - TYP
SCALE: 3/4" = 1'-0"



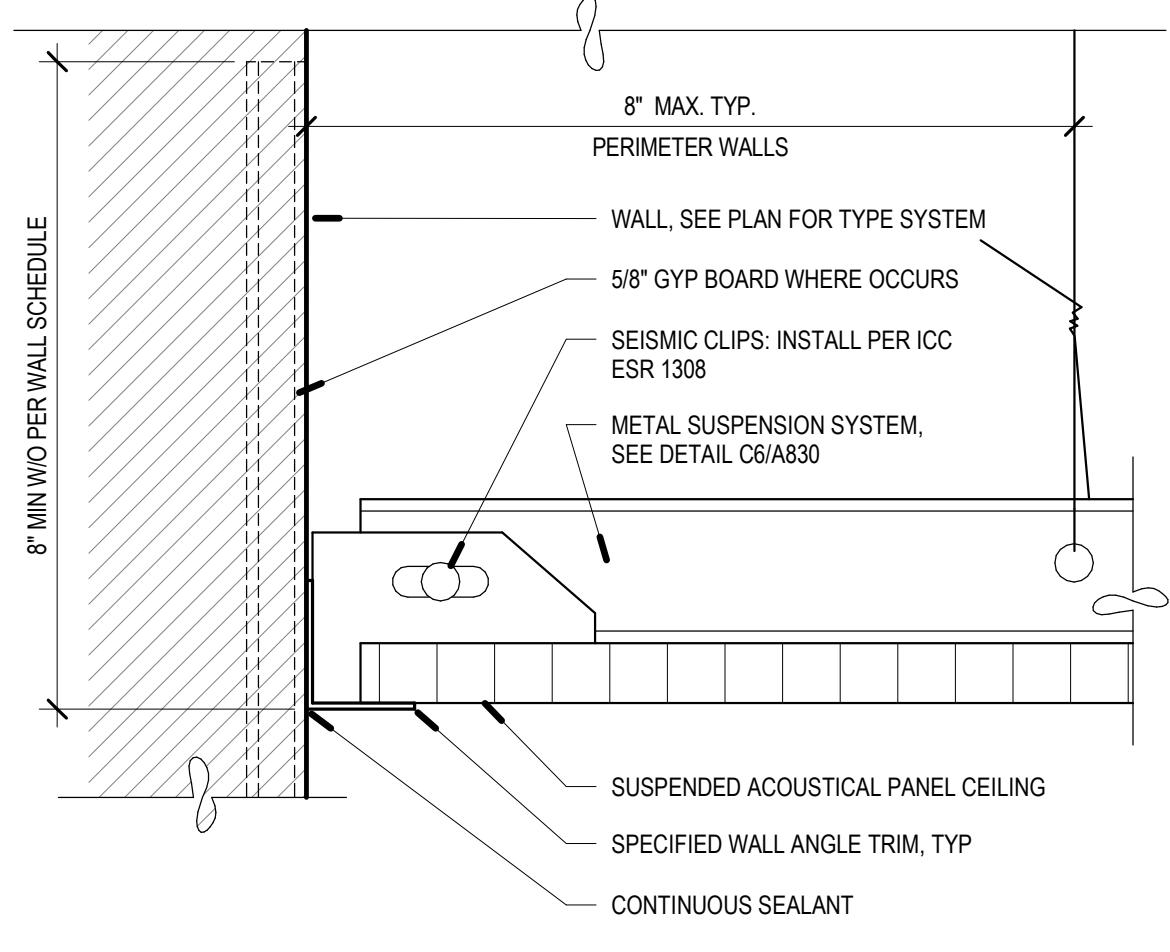
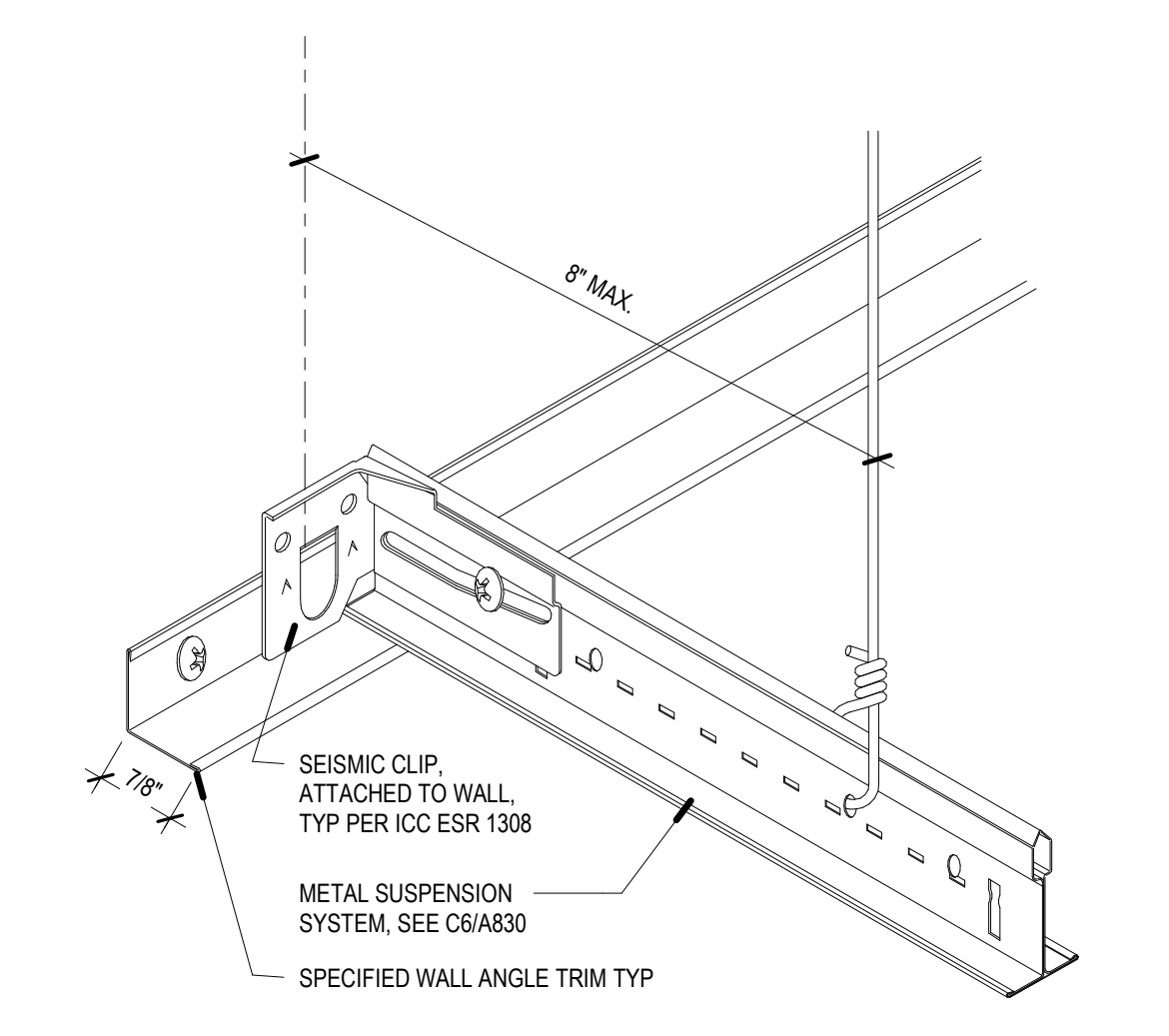
C5 GYP BOARD CEILING - FIXTURE - TYP
SCALE: 3/4" = 1'-0"



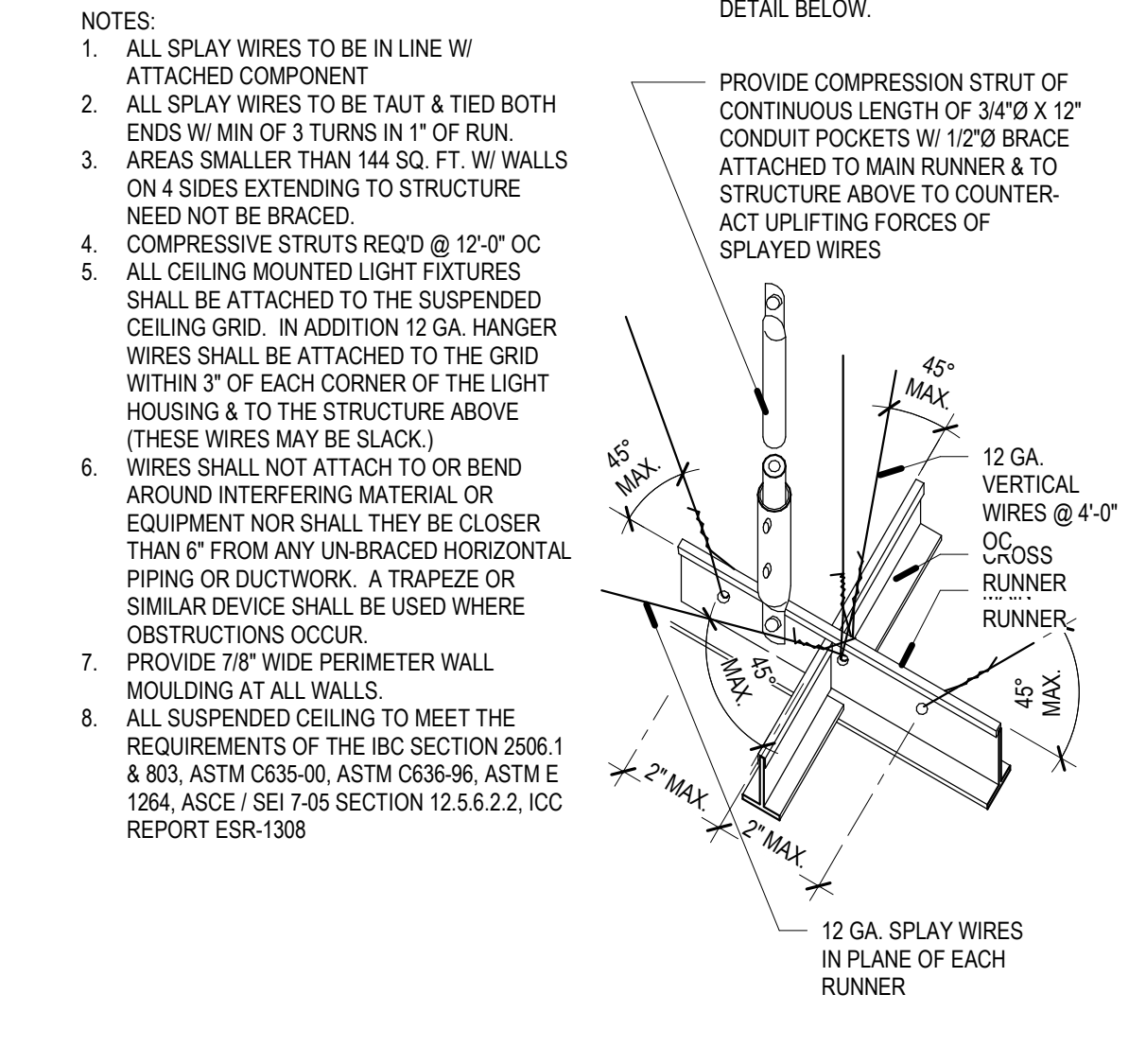
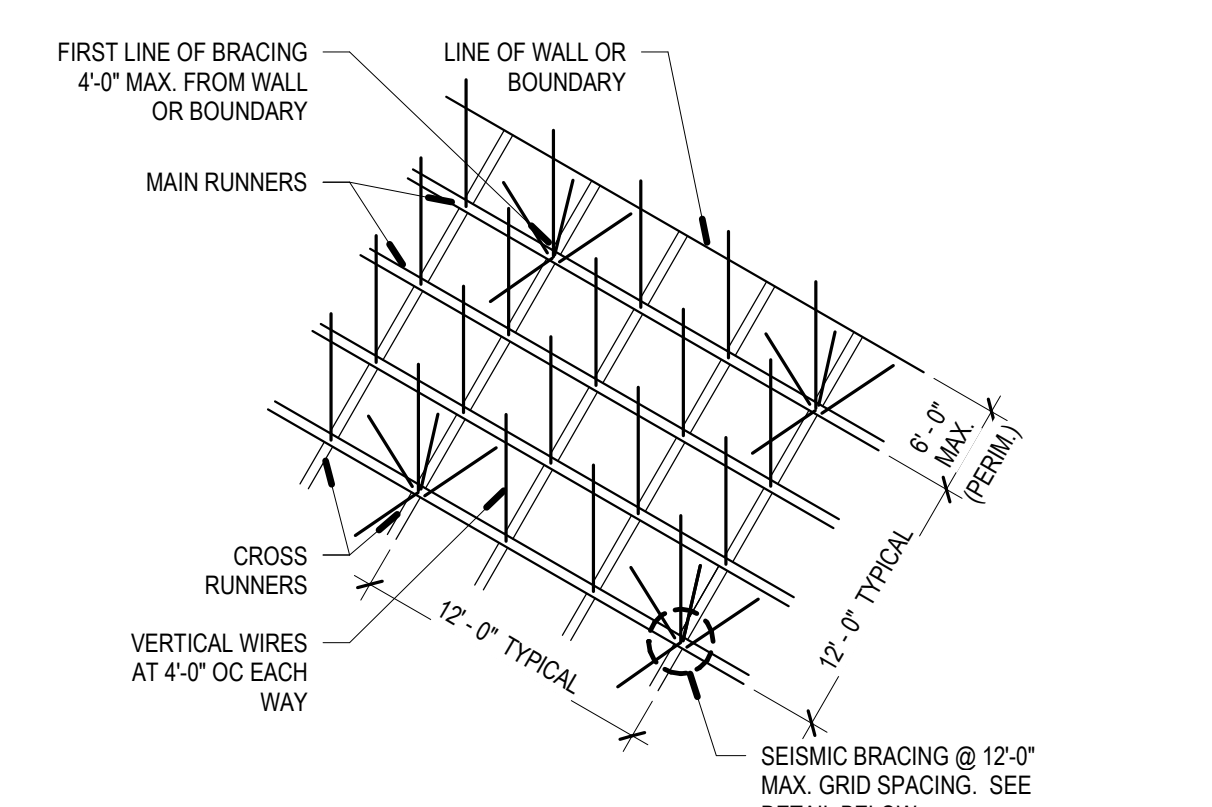
C6 CEILING TILE - PENETRATION - TYP
SCALE: 1/2" = 1'-0"

REV	DATE	DESCRIPTION

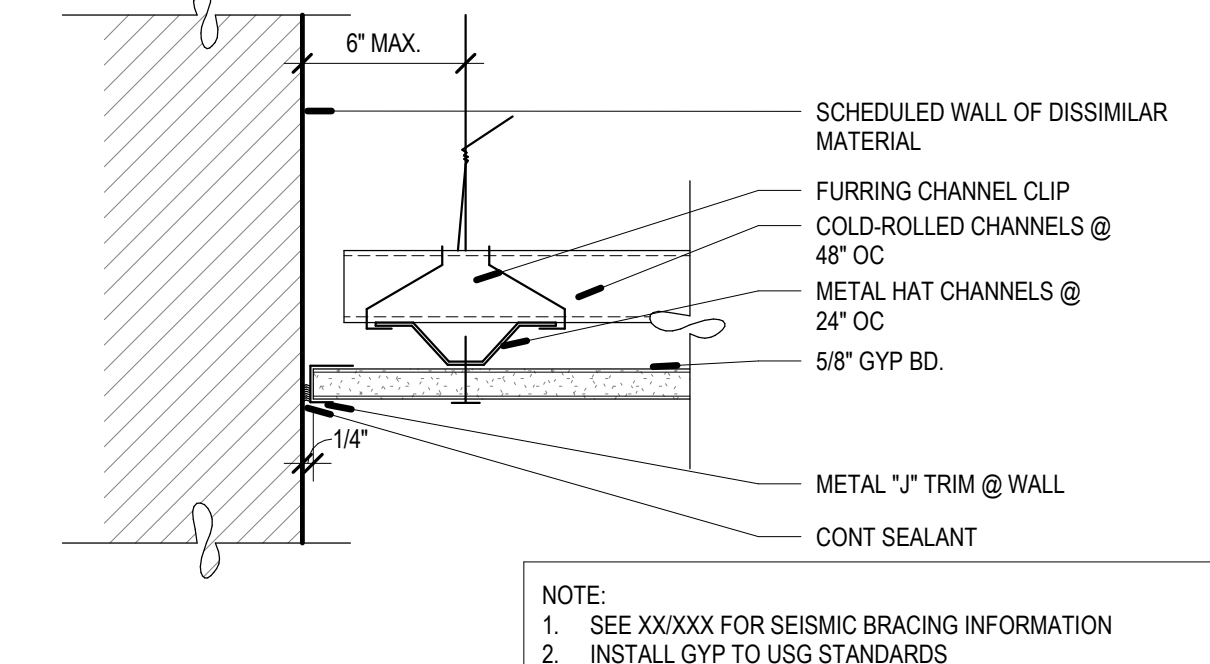
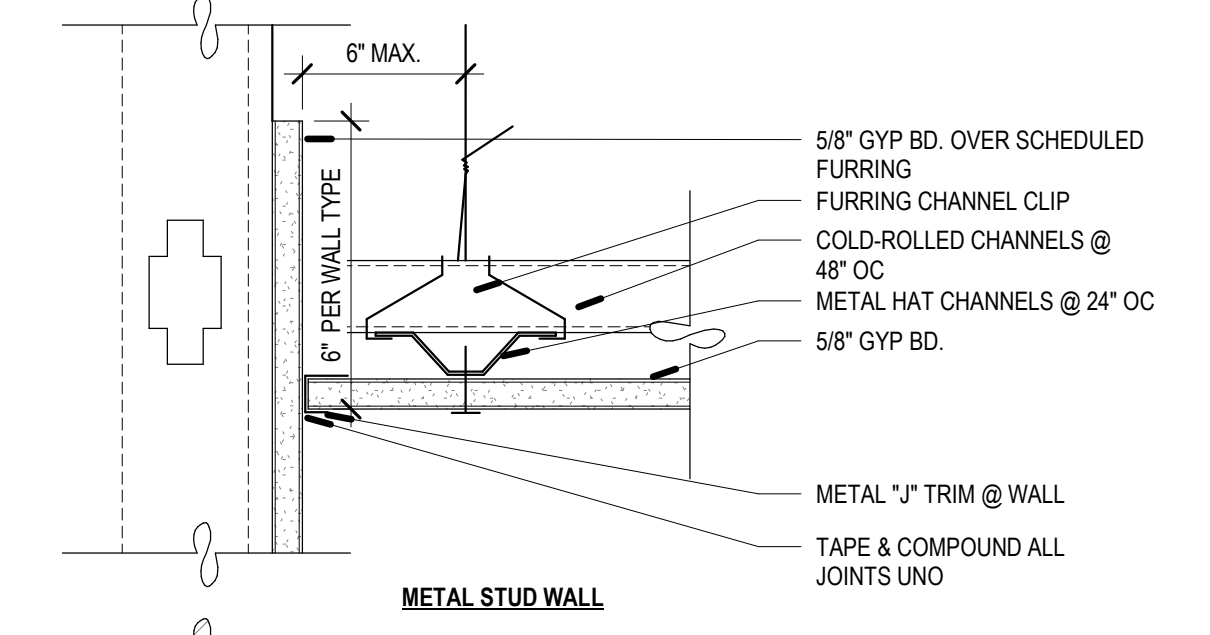
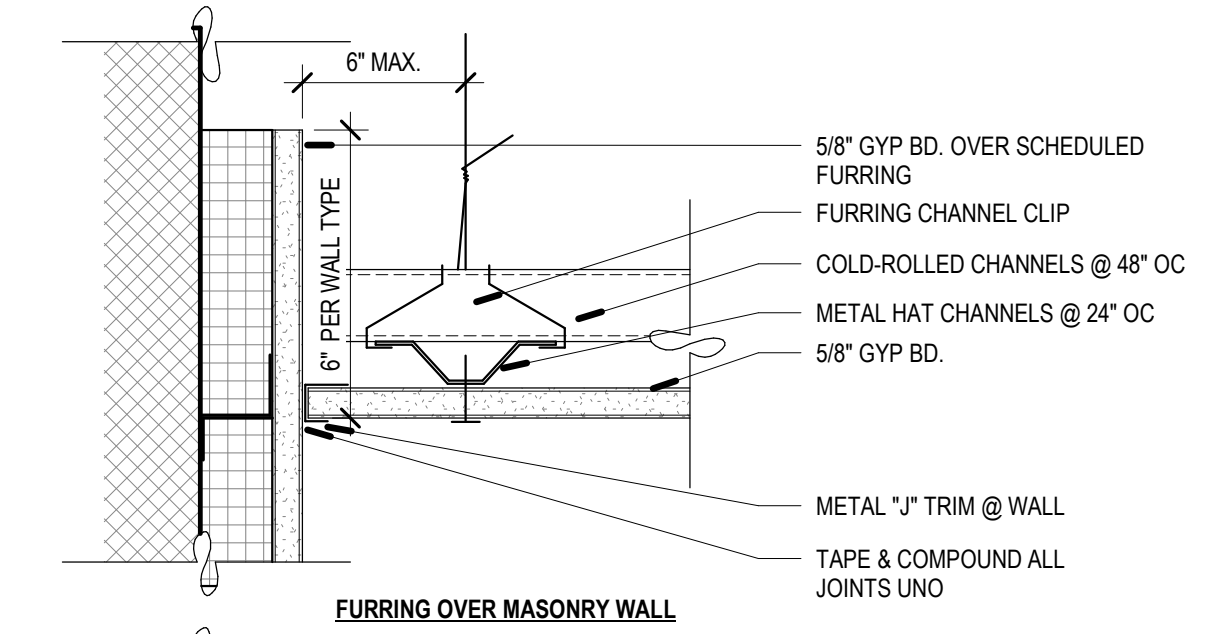
VCBO NUMBER: 22305
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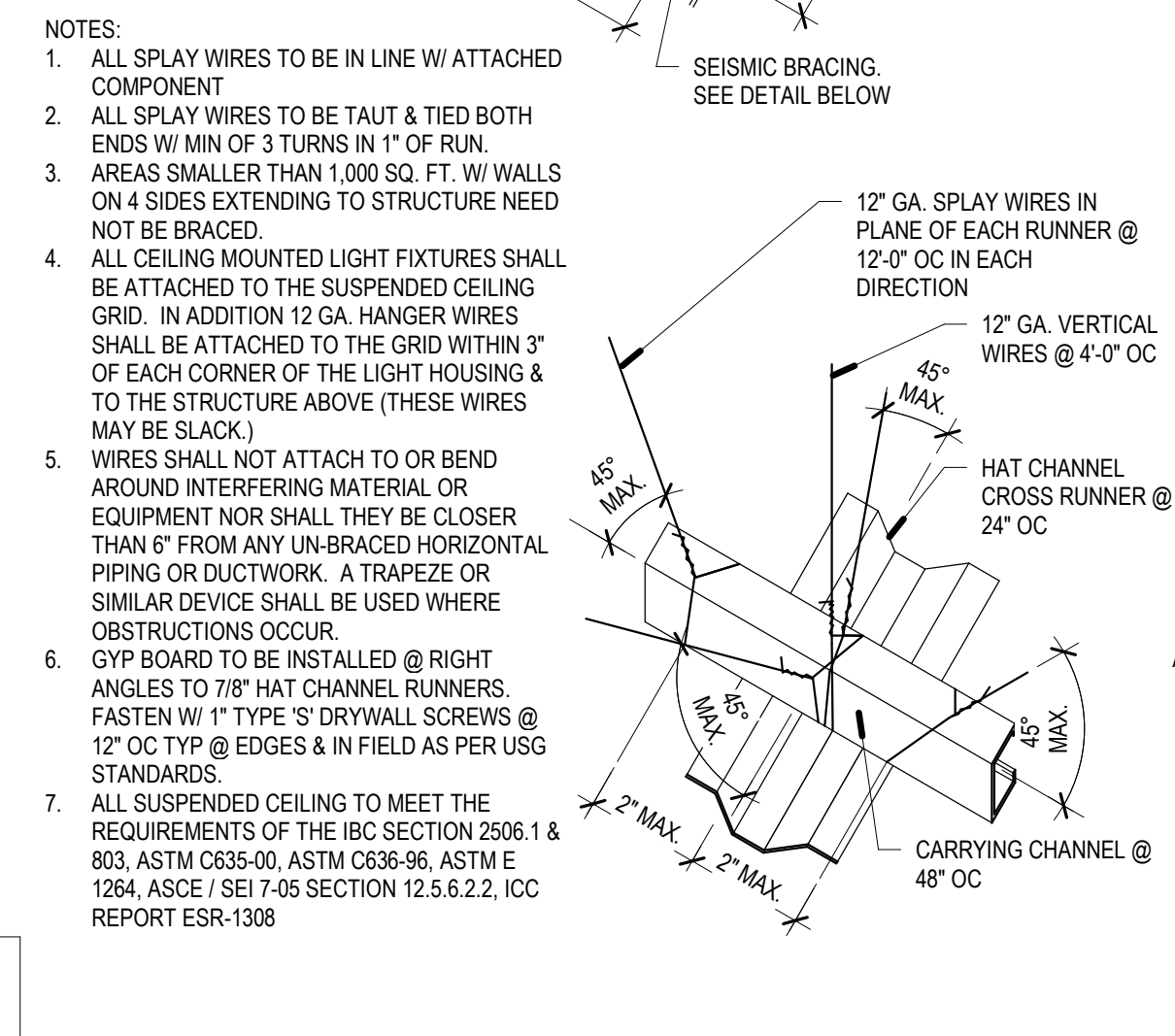
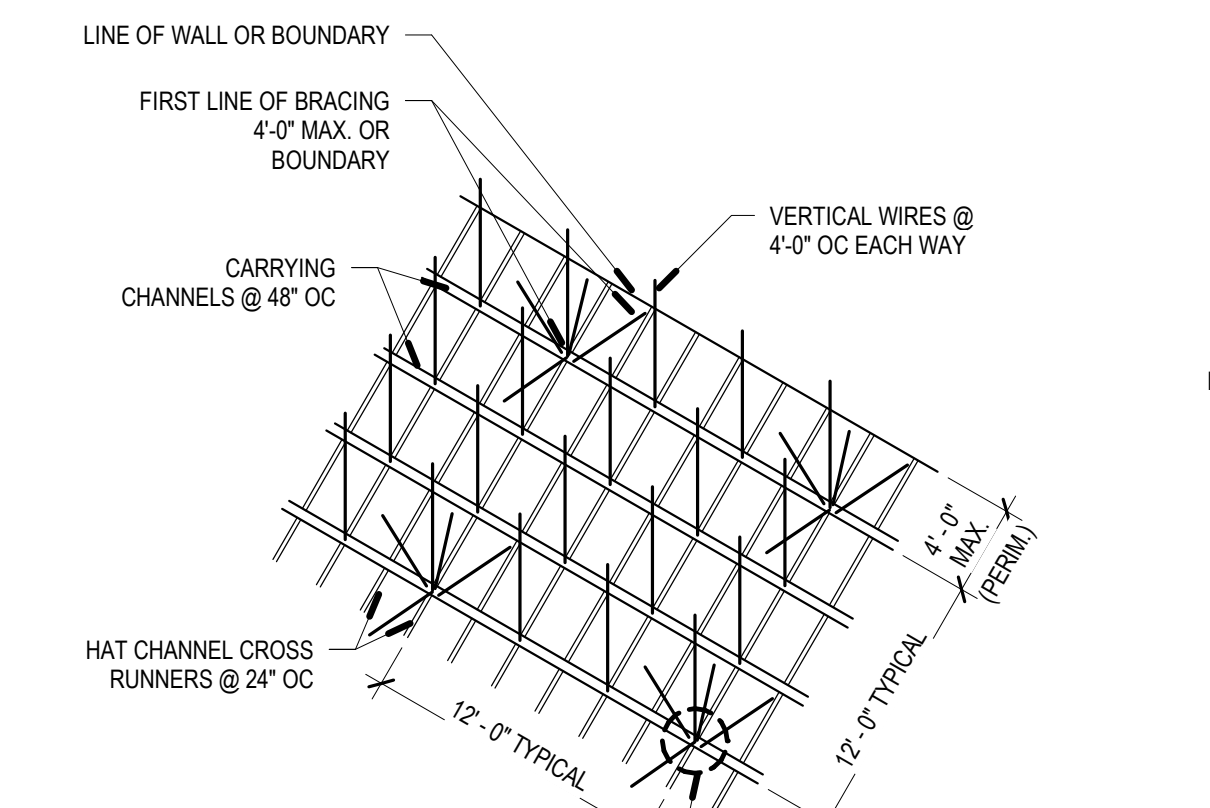
A2 SUSPENDED CEILING - TYP
SCALE: 6" = 1'-0"



A3 SUSPENDED CEILING - SEISMIC BRACING
SCALE: NOT TO SCALE



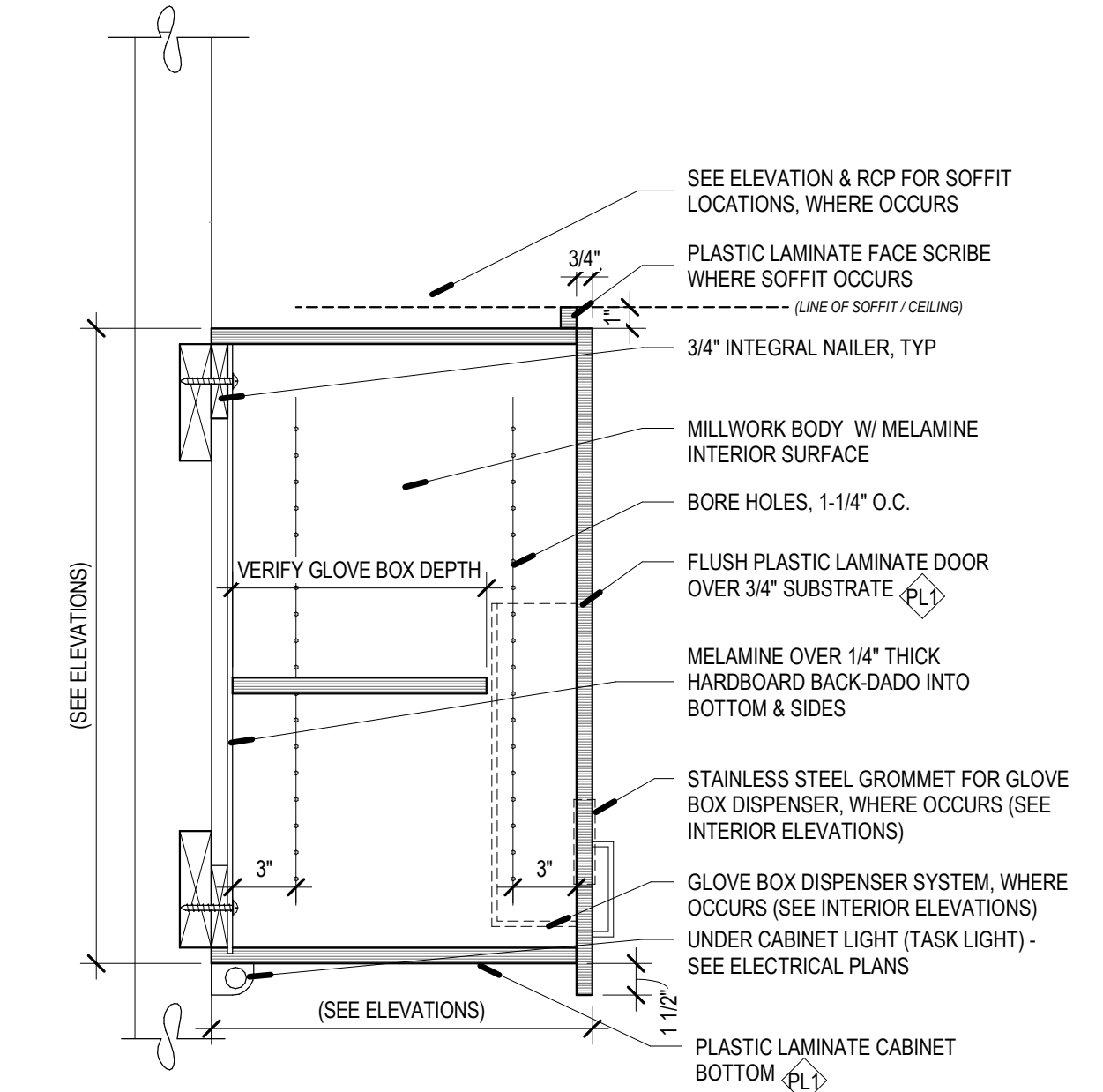
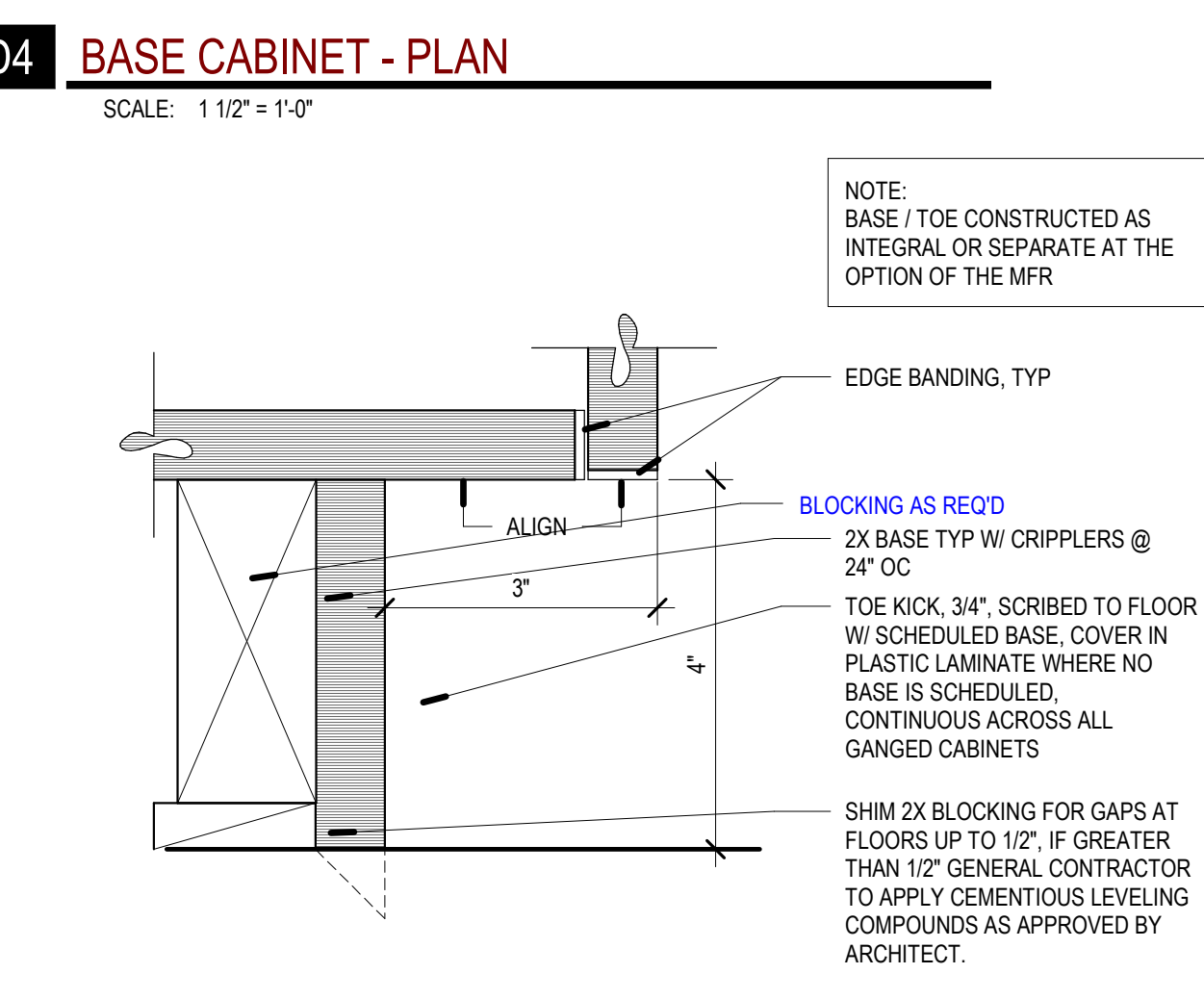
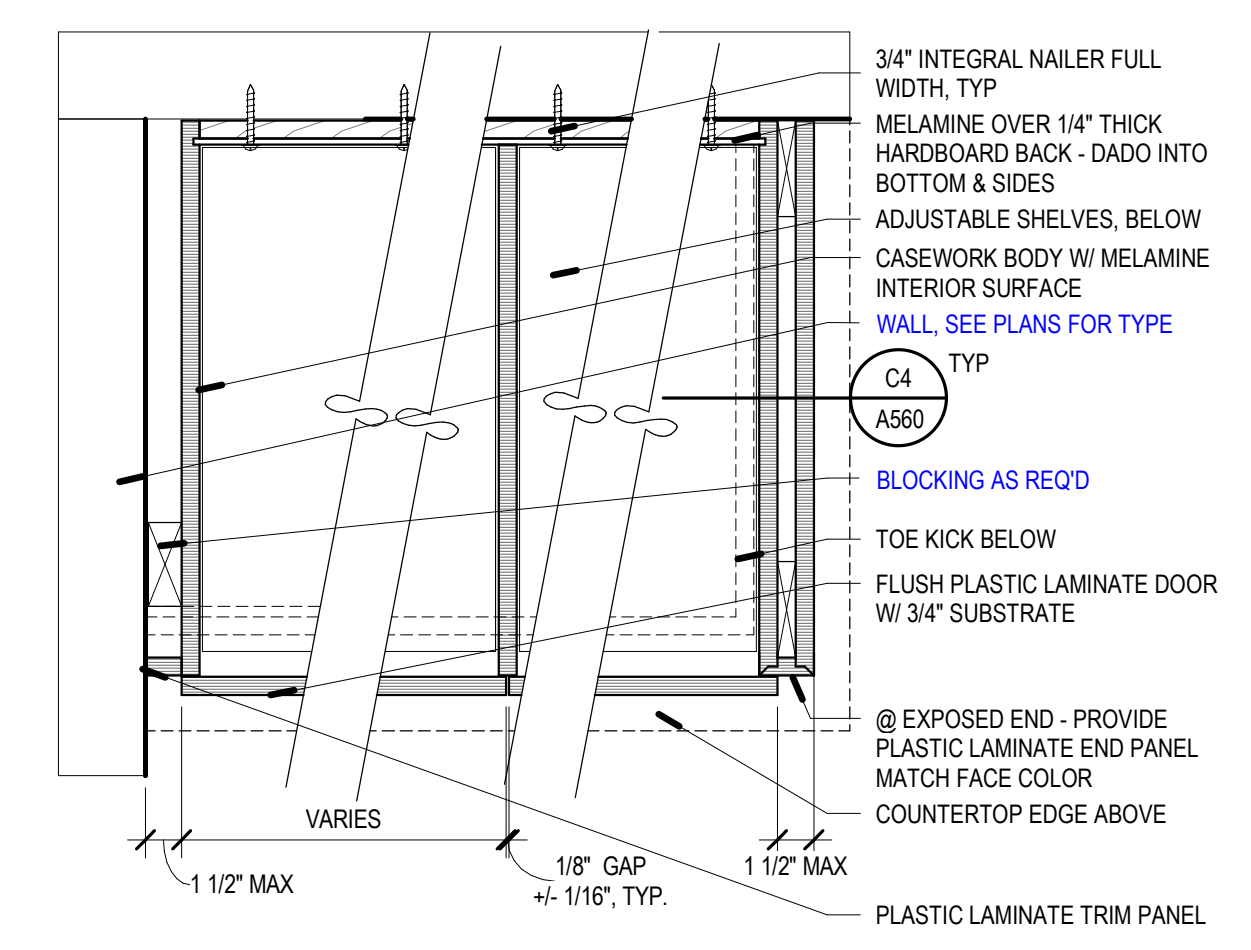
A5 SLIP JOINT
SCALE: 3/4" = 1'-0"



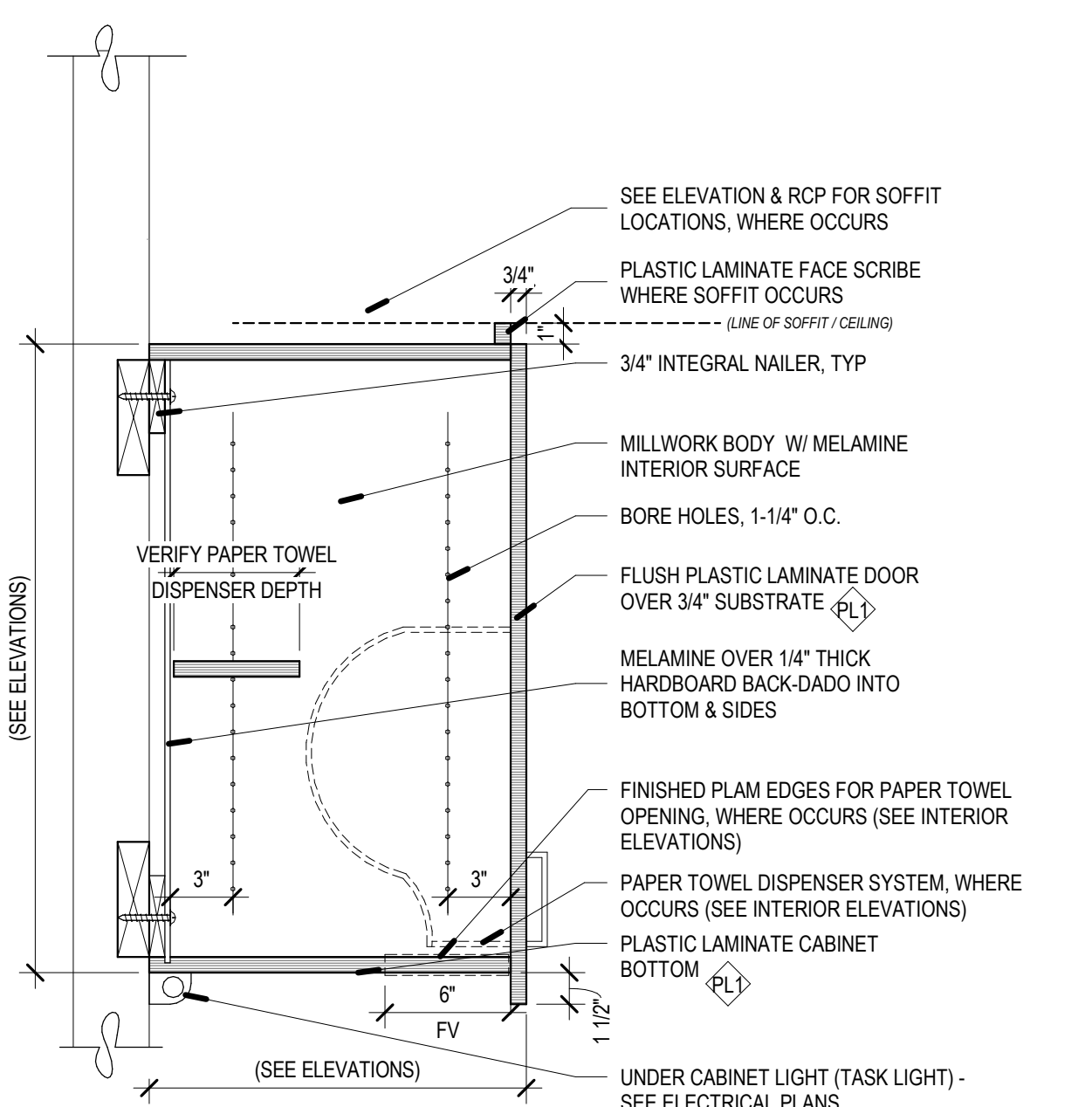
A6 GYP BRACING - SUSPENDED - TYP
SCALE: NOT TO SCALE

REV	DATE	DESCRIPTION

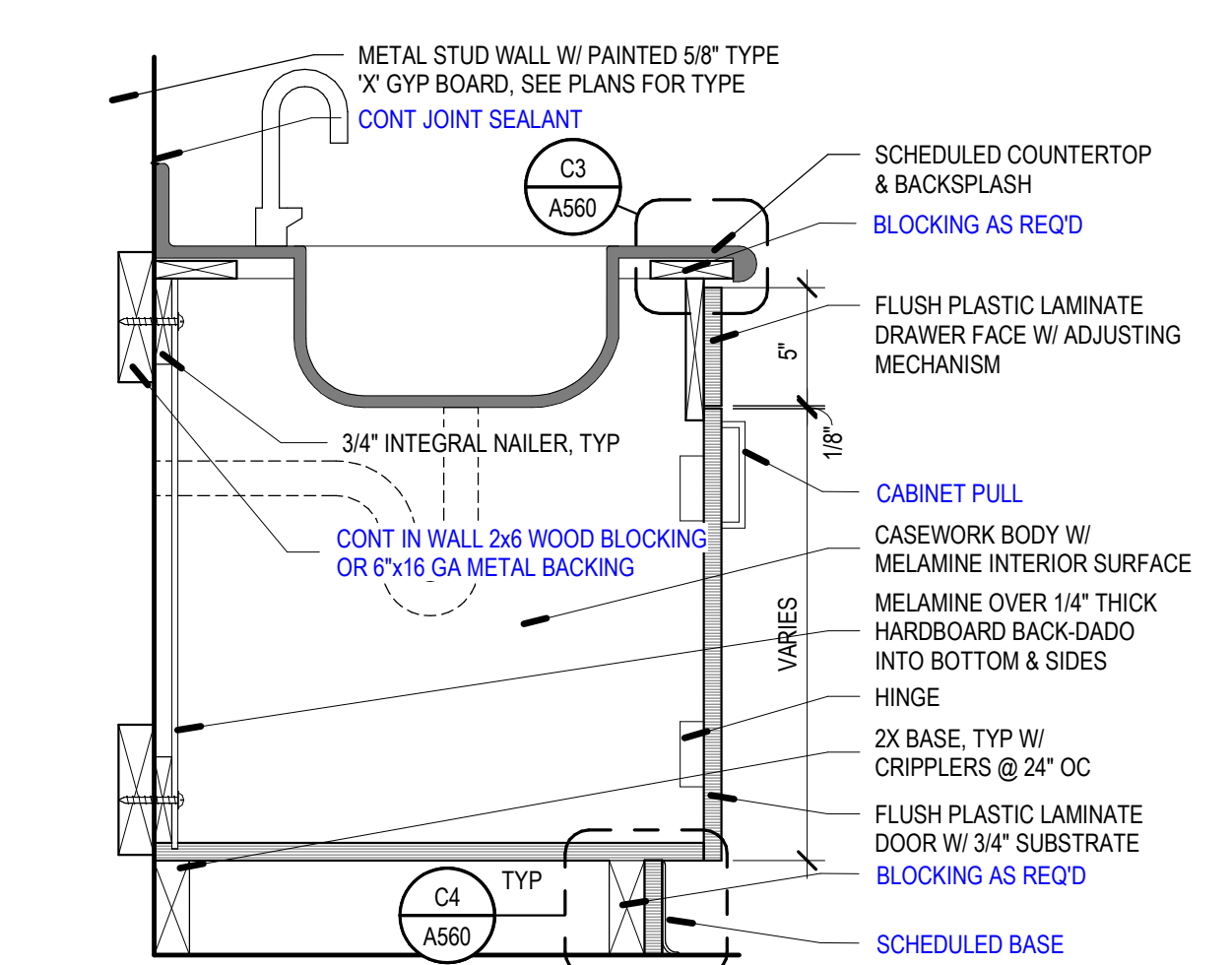
VCBO NUMBER: 22305
DATE: 05/31/2022



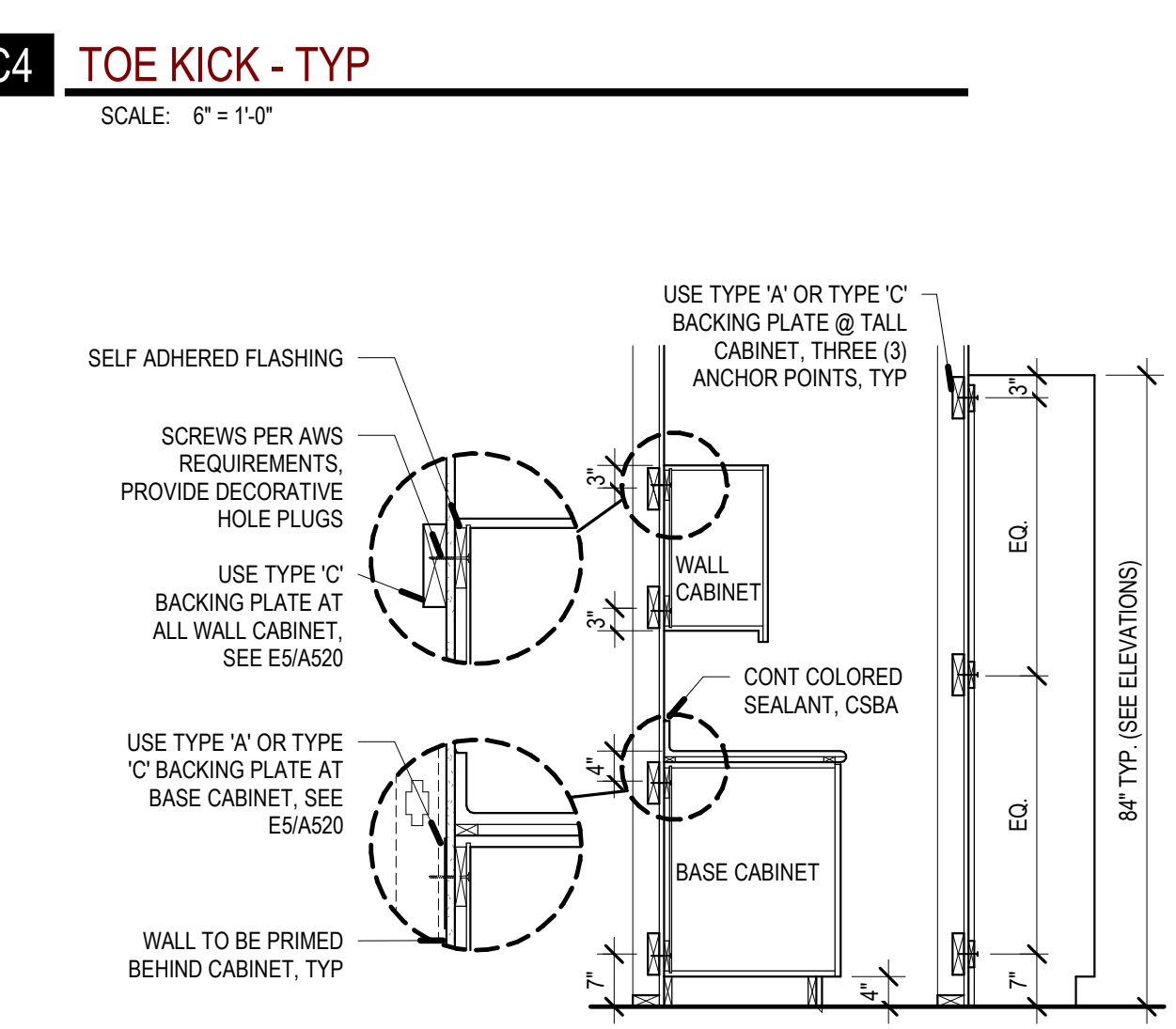
C5 UPPER CABINET - FULL DOOR - GLOVE DISPENSER
SCALE: 1/12" = 1'-0"



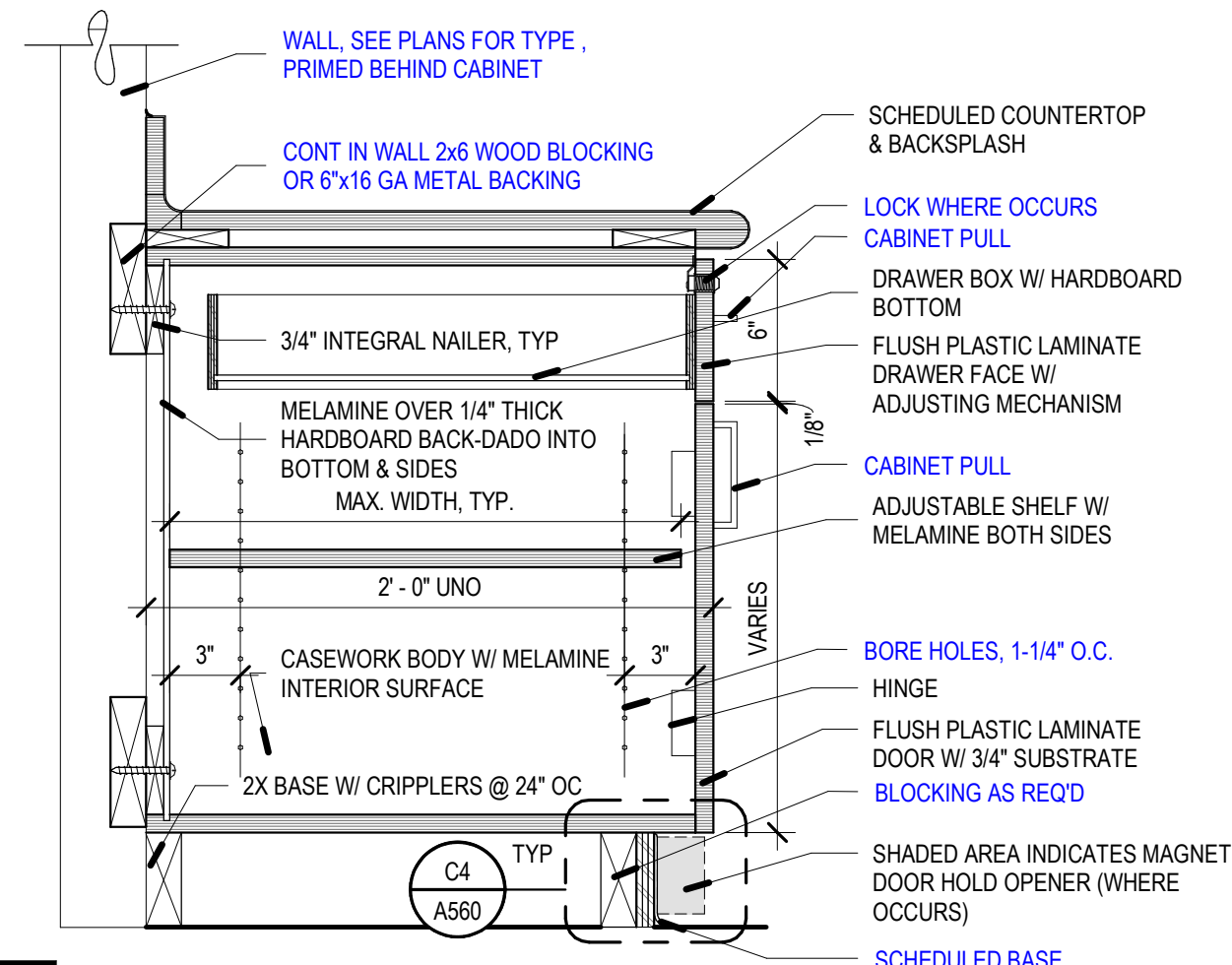
C5 UPPER CABINET - FULL DOOR - GLOVE DISPENSER
SCALE: 1/12" = 1'-0"



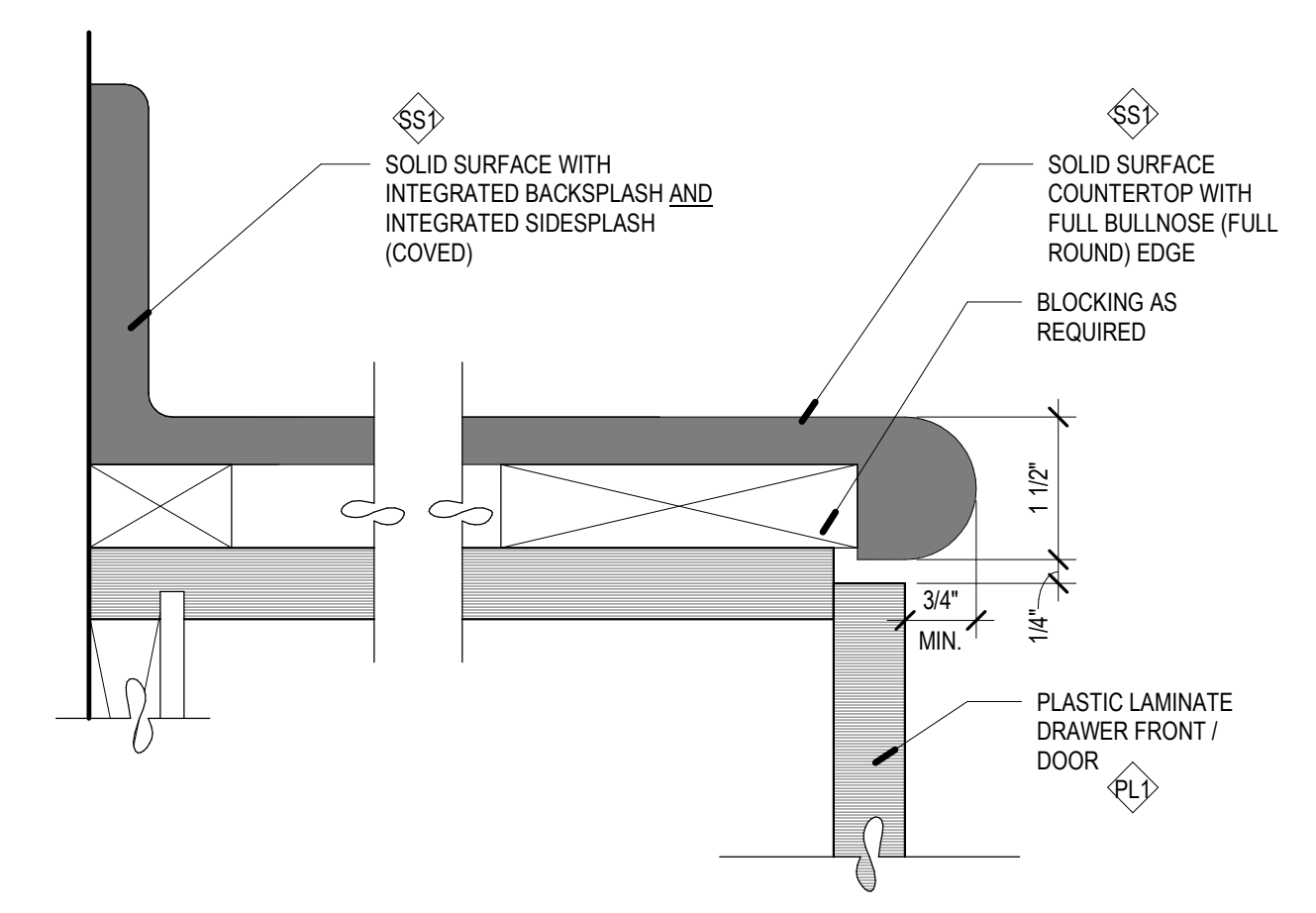
B5 UPPER CABINET - FULL DOOR - PAPER TOWEL DISPENSER
SCALE: 1/12" = 1'-0"



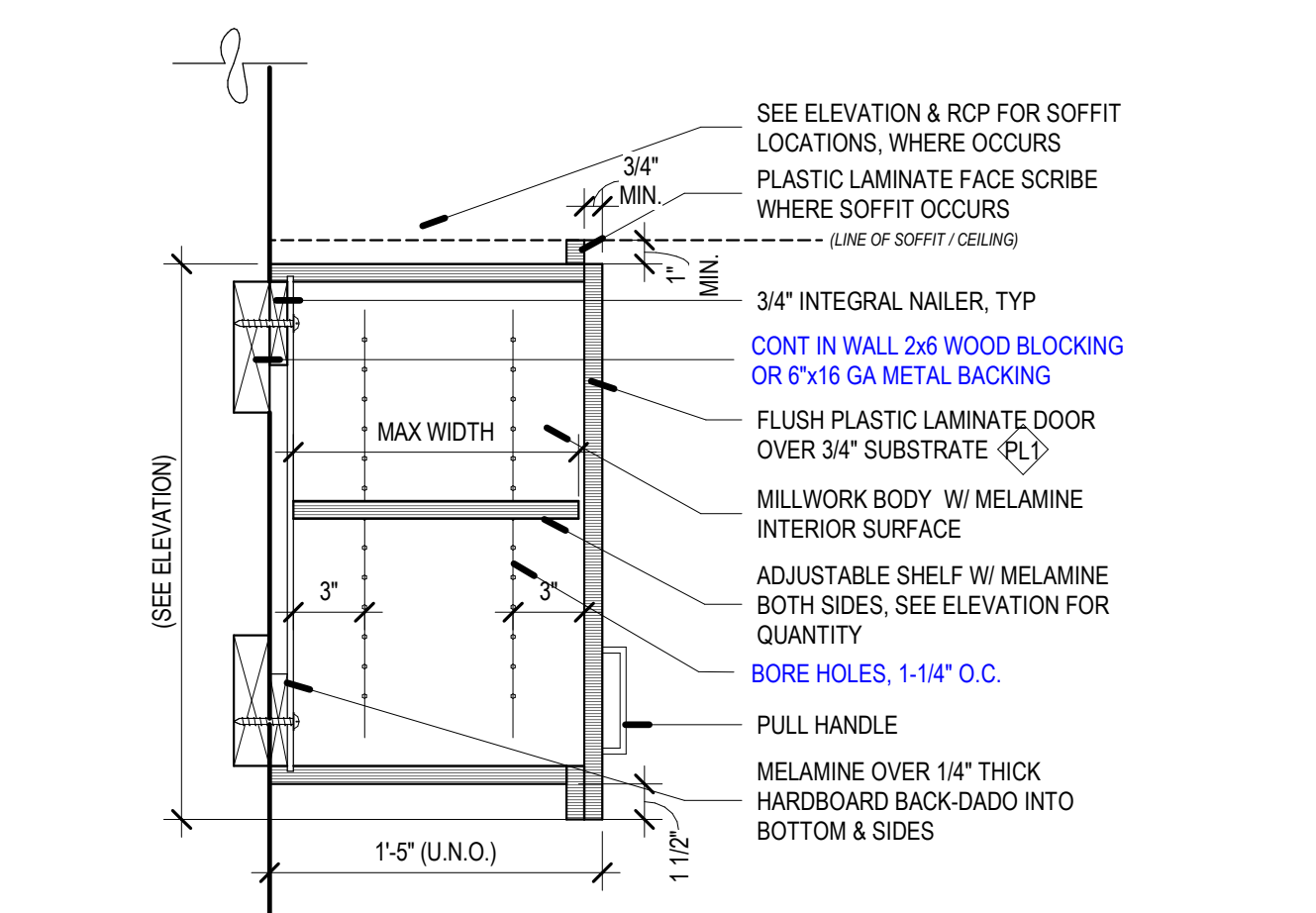
C4 TOE KICK - TYP
SCALE: 6" = 1'-0"



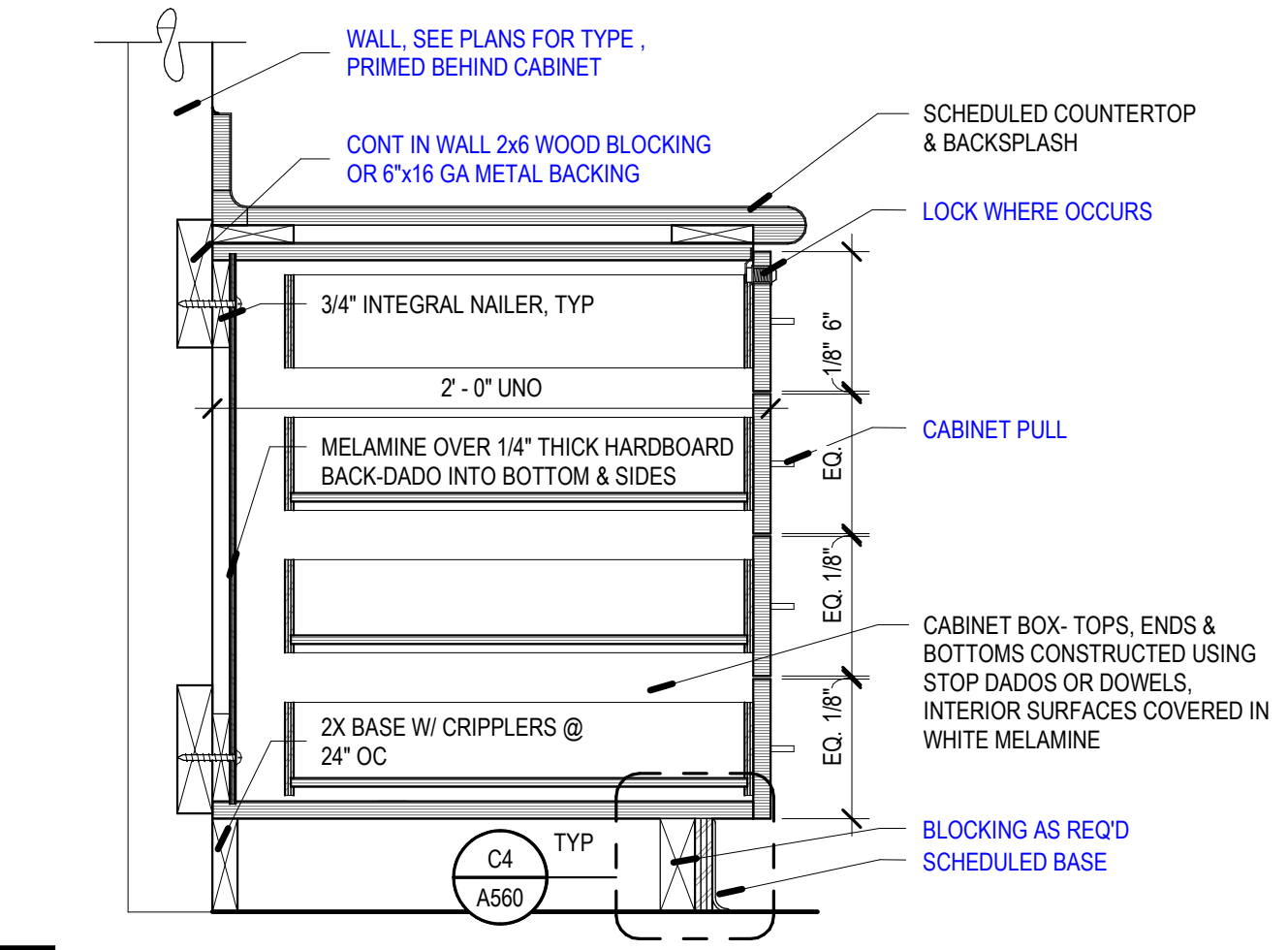
B4 MILLWORK ANCHOR - TYP
SCALE: 1/2" = 1'-0"



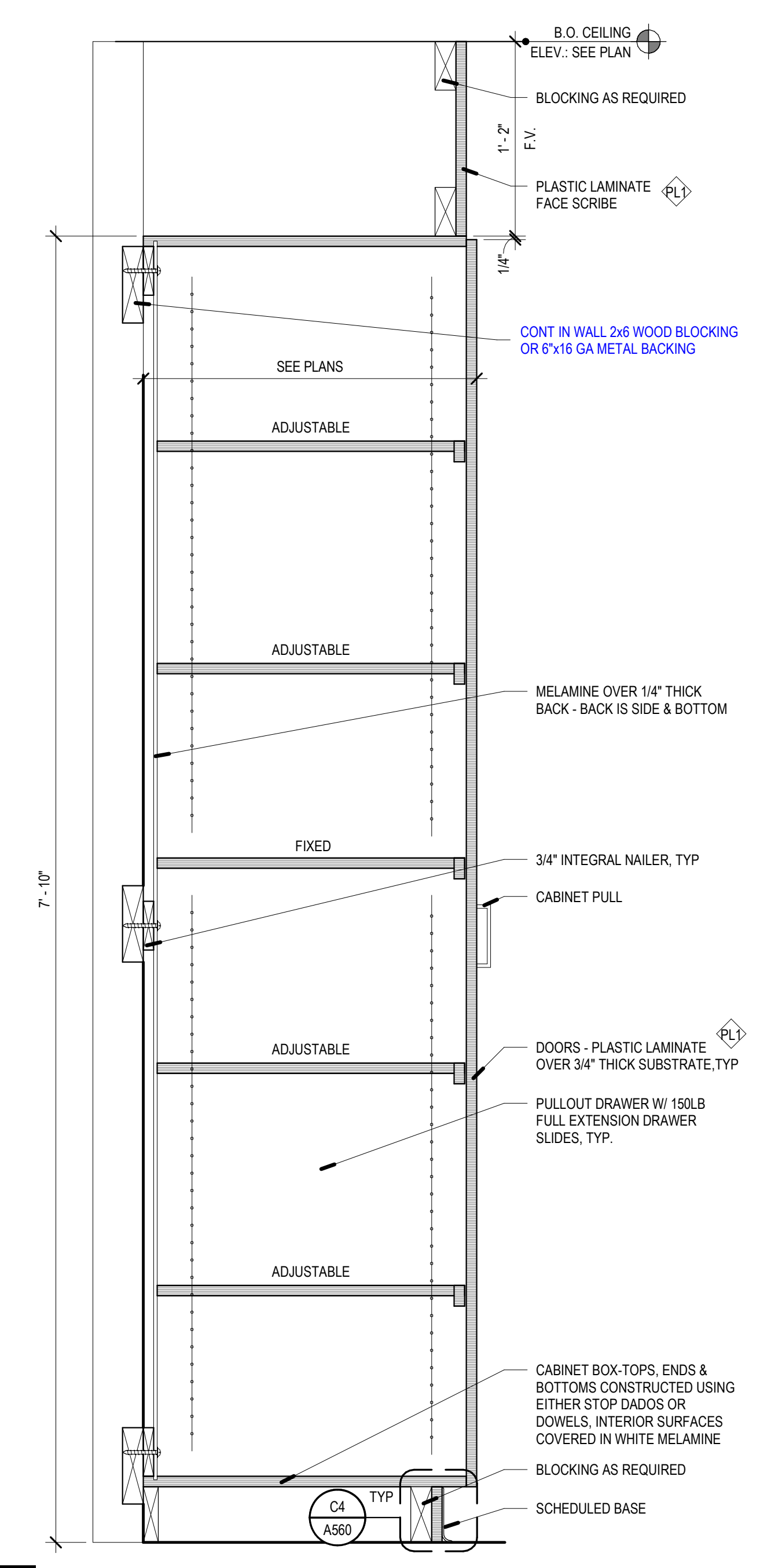
C3 COUNTERTOP - SOLID SURFACE
SCALE: 6" = 1'-0"



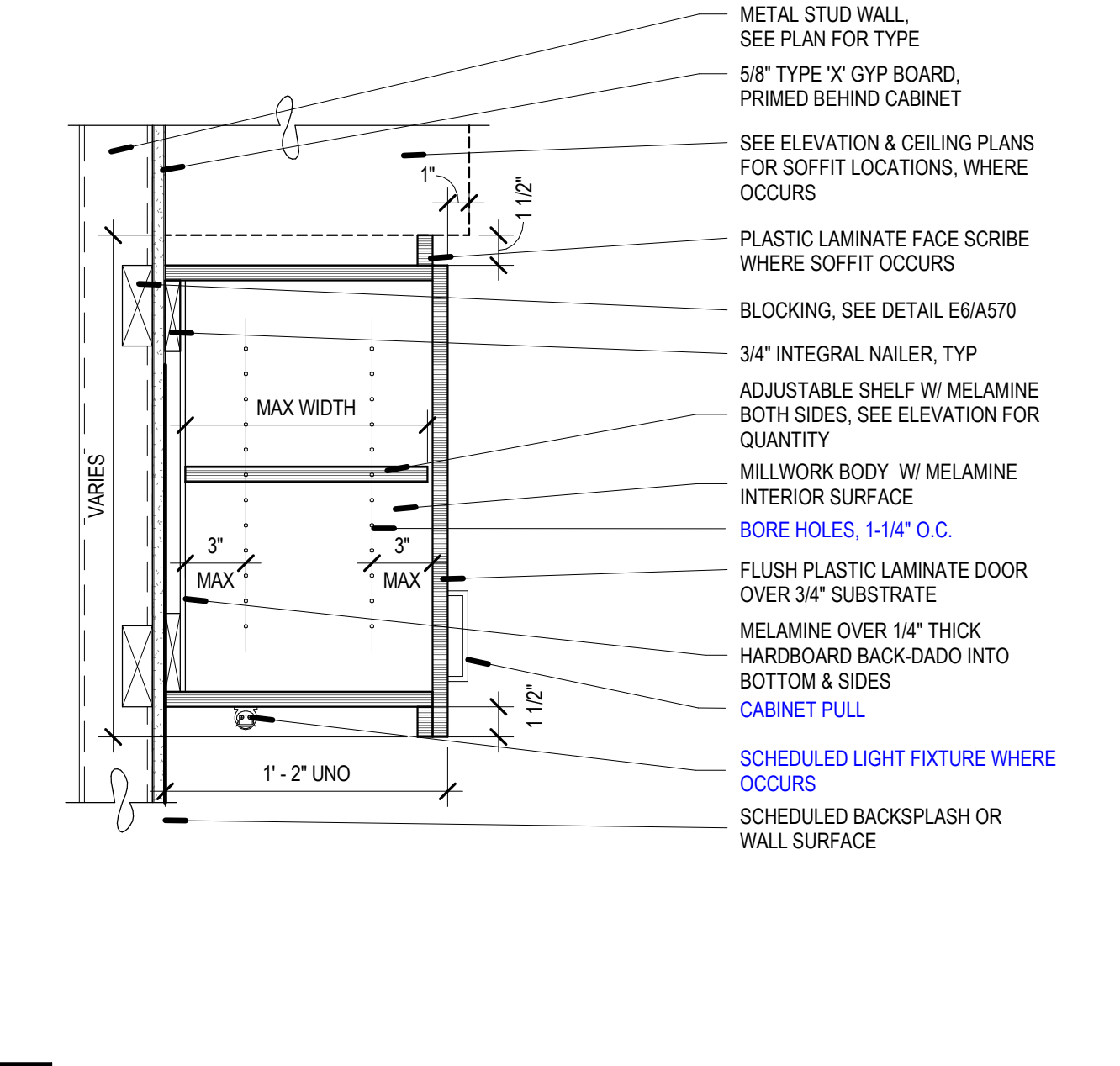
B3 UPPER CABINET FULL DOOR @ CEILING / SOFFIT
SCALE: 1/12" = 1'-0"



A3 BASE CABINET - 4 DRAWER
SCALE: 1/12" = 1'-0"



A2 TALL CABINET - T025
SCALE: 1/12" = 1'-0"

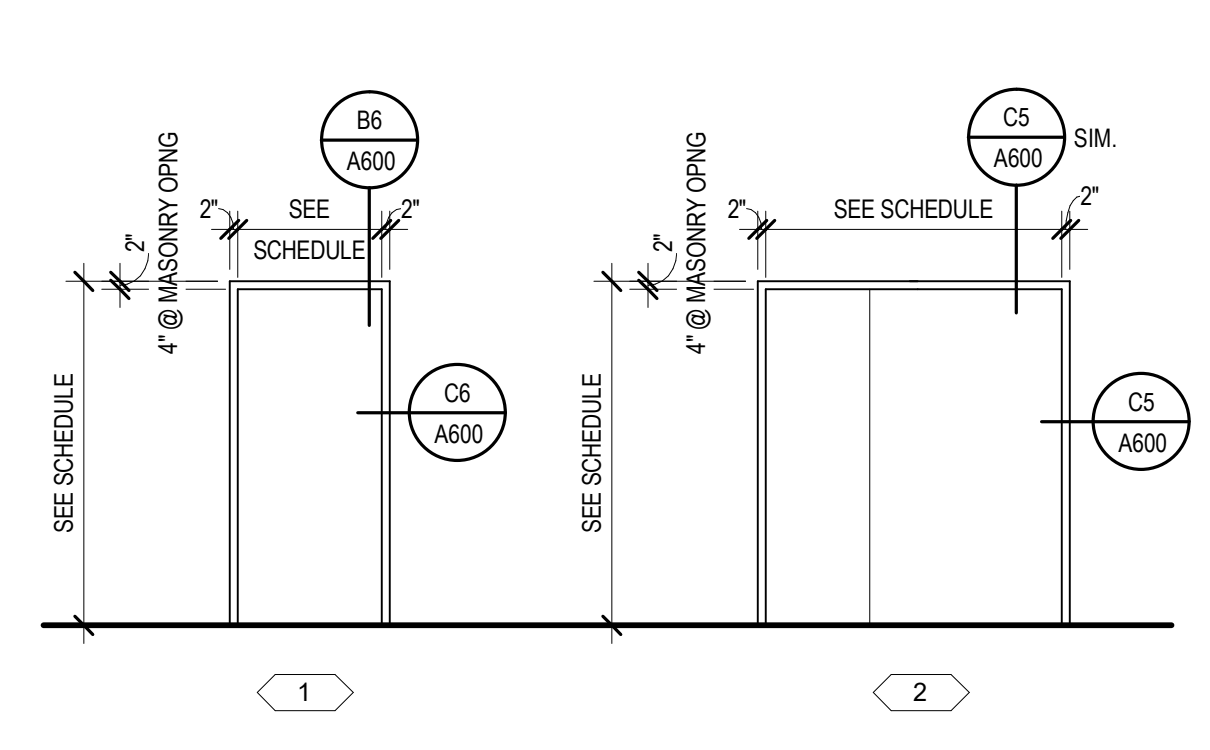


A1 UPPER CABINET - FULL DOOR W021
SCALE: 1/12" = 1'-0"

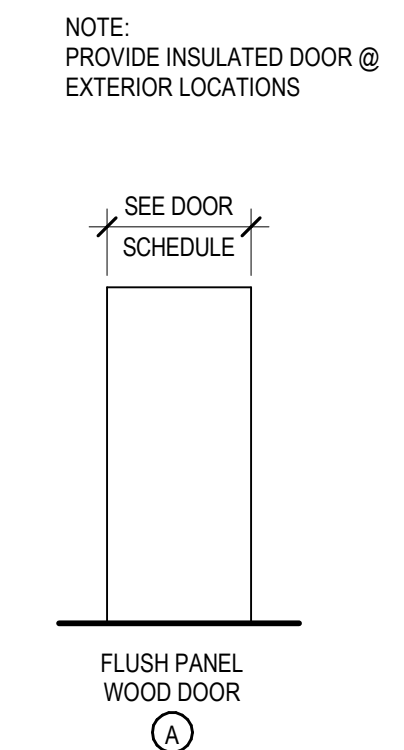
SCHEDULE - DOOR AND FRAME													
DOOR NUMBER	ROOM NAME	DOOR				FRAME				HARDWARE GROUP	NOTES	DOOR NUMBER	
		WIDTH	HEIGHT	THICK	ELEV. TYPE	MATERIAL	FACING	ELEV. TYPE	MATERIAL				FINISH
212	MINOR PROCEDURE	72"	84"	1.34"	A	WD	STAIN	2	HM	PNT	1.0	LEAD LINED DOOR	212
213	CONTROL (FLUOROSCOPY)	36"	84"	1.34"	A	WD	STAIN	1	HM	PNT	3.0		213
214	EQUIPMENT	36"	84"	1.34"	A	WD	STAIN	1	HM	PNT	2.0		214
220	WORKSTATION	36"	84"	1.34"	A	WD	STAIN	1	HM	PNT	3.0		220

DOOR & FRAME NOTES

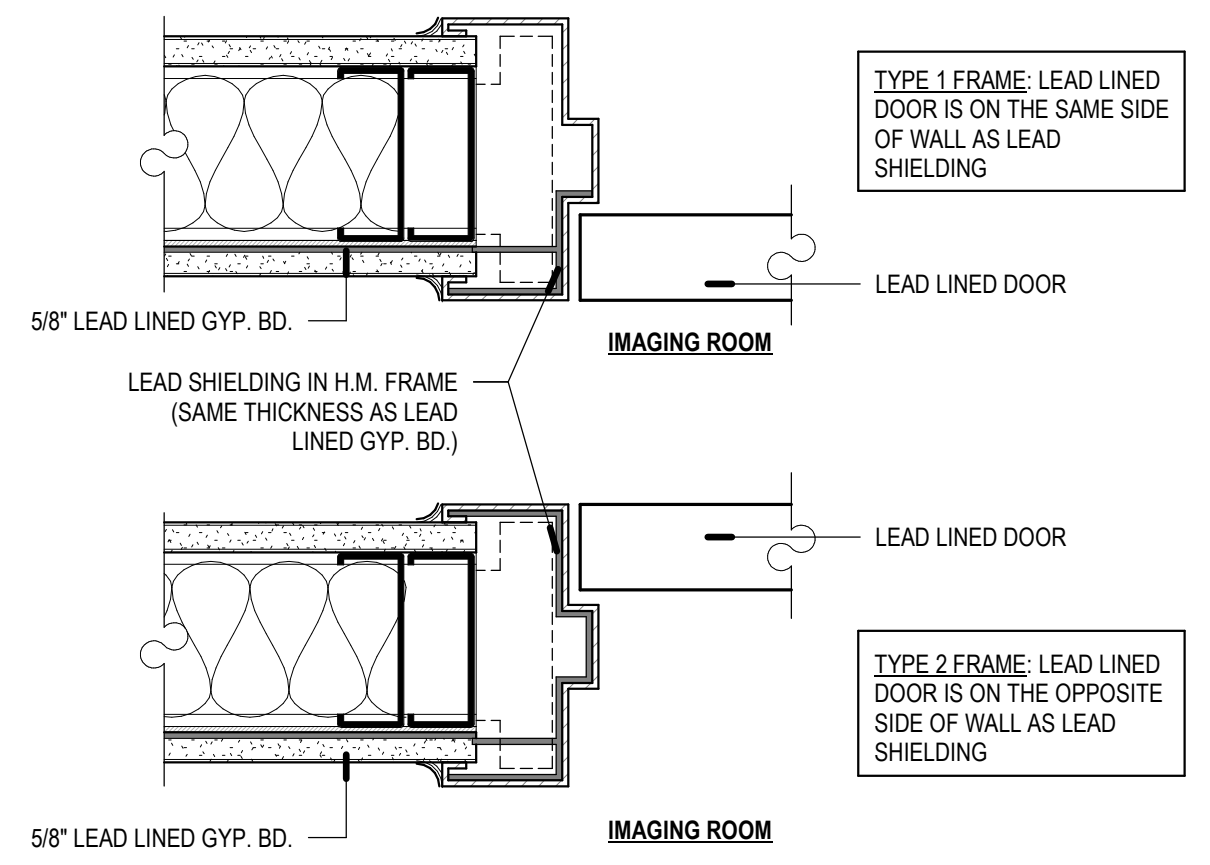
- MATERIAL ABBREVIATIONS:
WD = WOOD
AL = ALUMINUM
HM = HOLLOW METAL
- SEE SPECIFICATION FOR HARDWARE GROUP DEFINITION
- ALL HOLLOW METAL FRAMES OPENING TO THE EXTERIOR ARE TO BE GALVANIZED
- ALL HOLLOW METAL DOORS OPENING TO THE EXTERIOR ARE TO BE INSULATED AND GALVANIZED
- OVERALL ALUMINUM FRAME DIMENSIONS ARE GIVEN FOR REFERENCE, REFER TO DETAILS FOR JAMB AND SILL CONDITIONS. OVERALL DIMENSIONS ARE TO BE FIELD VERIFIED.
- GENERAL CONTRACTOR TO COORDINATE WORK BETWEEN DOOR INSTALLER AND SECURITY SYSTEM INSTALLER
- WHERE A DOOR IS SHOWN ON THE FLOORS PLANS BUT IS NOT NUMBERED AND/OR DOES NOT APPEAR IN THE DOOR SCHEDULE, THE FOLLOWING DOOR, FRAME AND HARDWARE ARE TO BE BID FOR THIS OPENING. DOOR TYPES X, FRAME TYPE XX, HARDWARE TYPE XX.



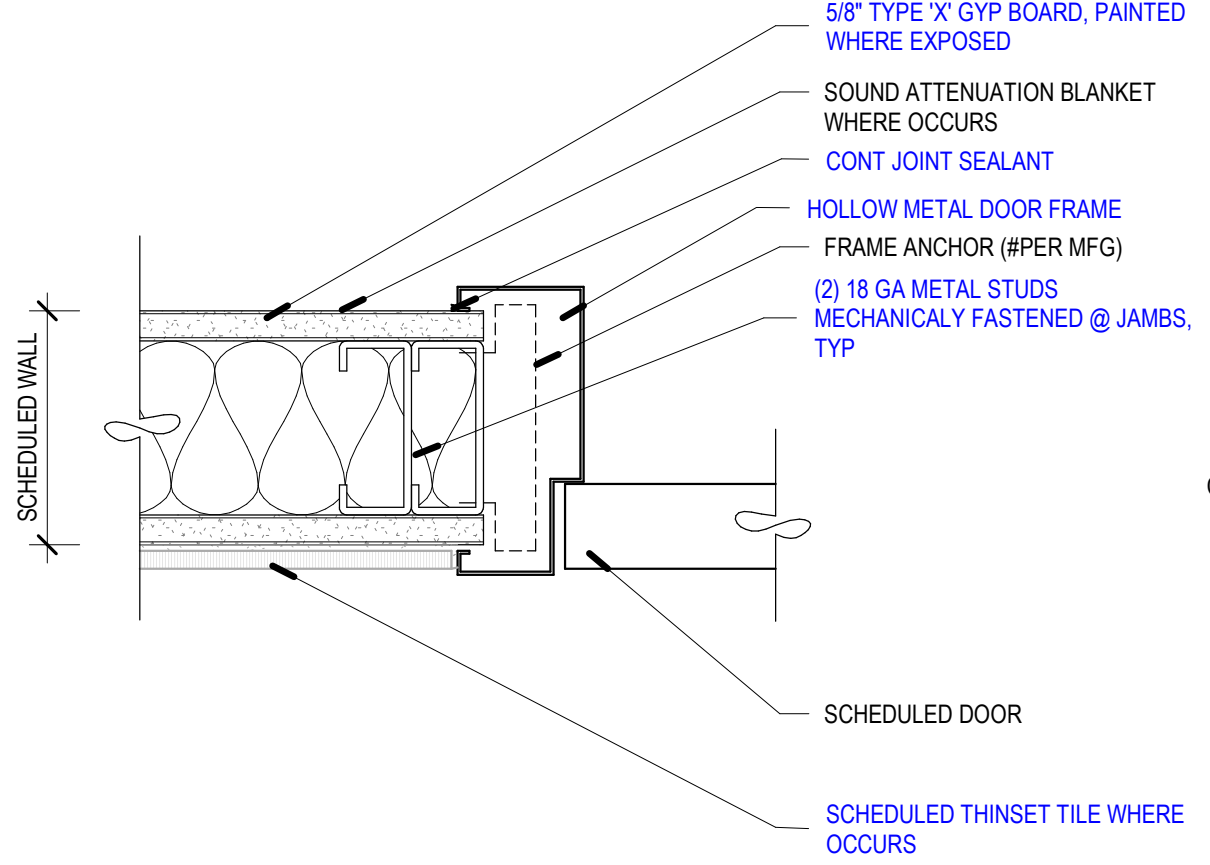
D5 HOLLOW METAL FRAME ELEVATIONS
SCALE: 1/4" = 1'-0"



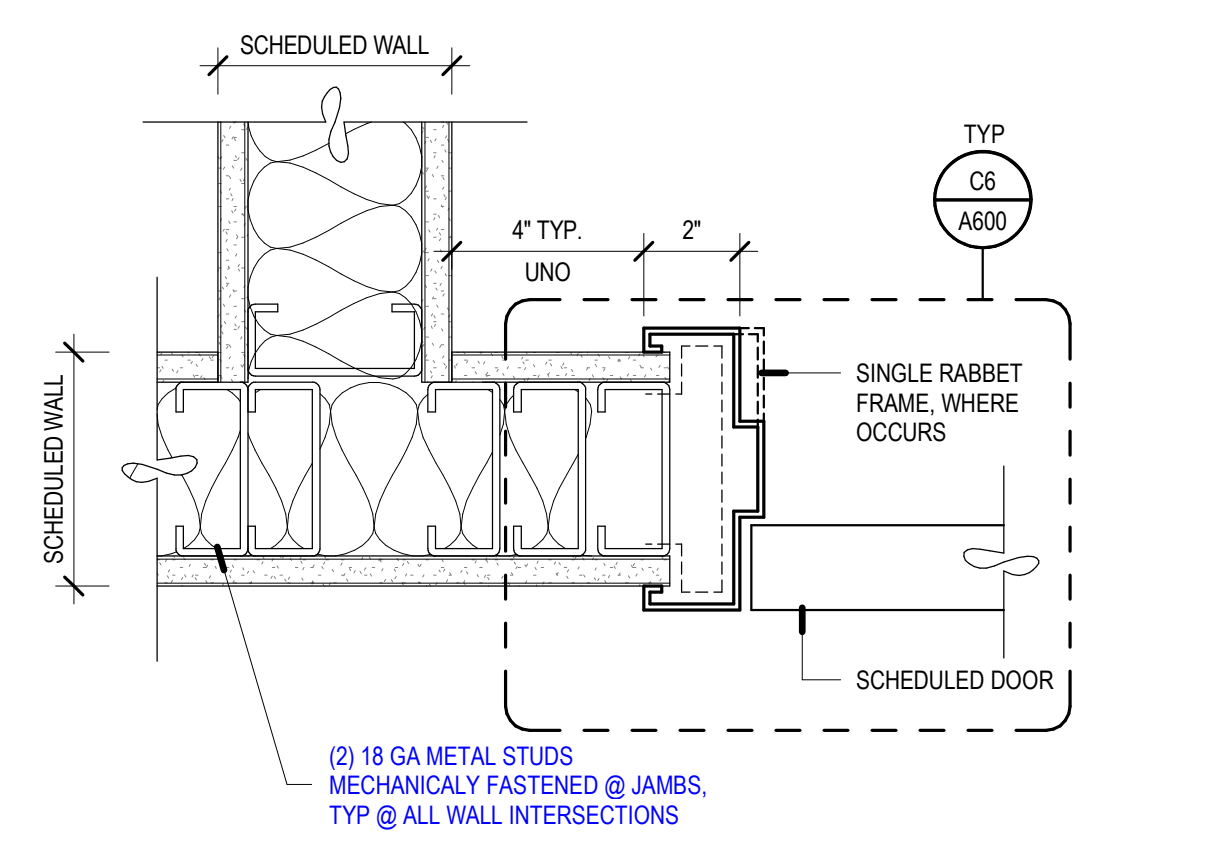
D6 DOOR ELEVATIONS 1
SCALE: 1/4" = 1'-0"



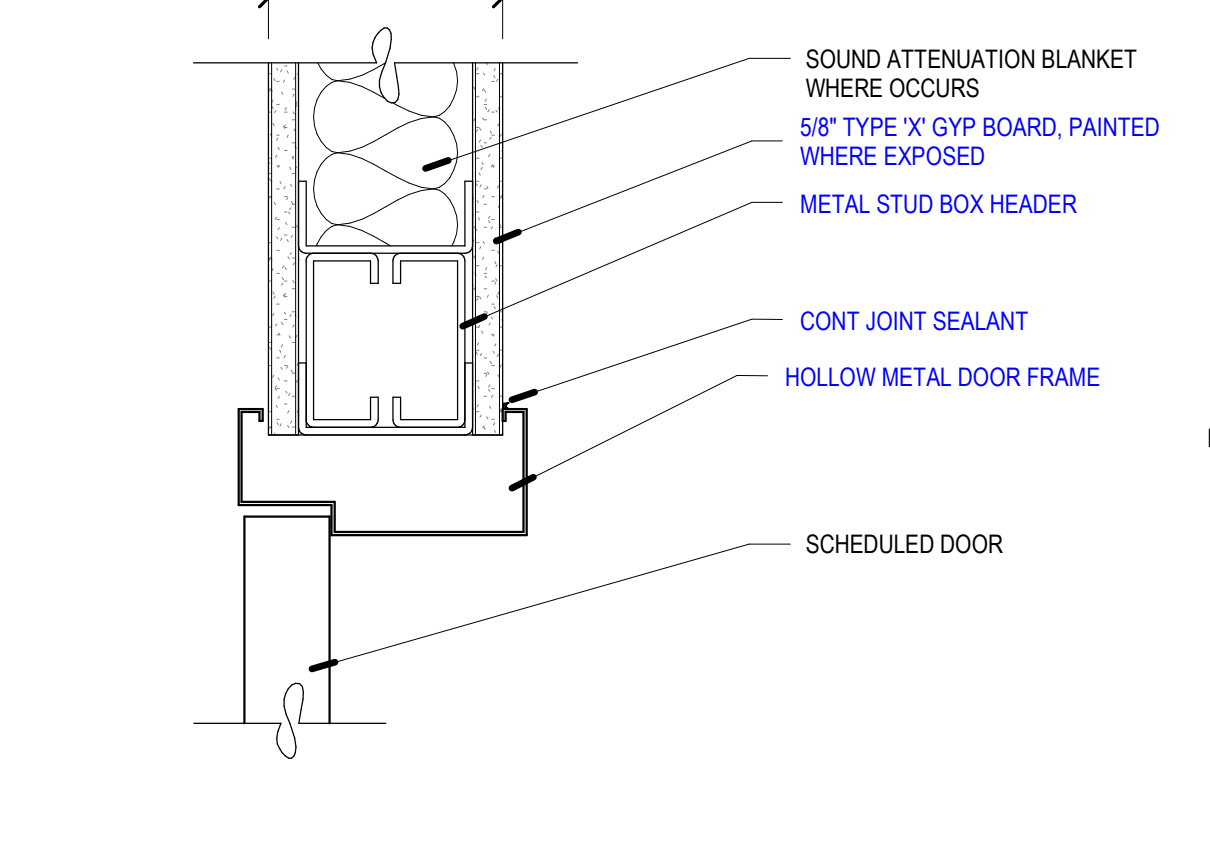
C5 LEAD LINED H.M. DOOR FRAME TYPES
SCALE: 3" = 1'-0"



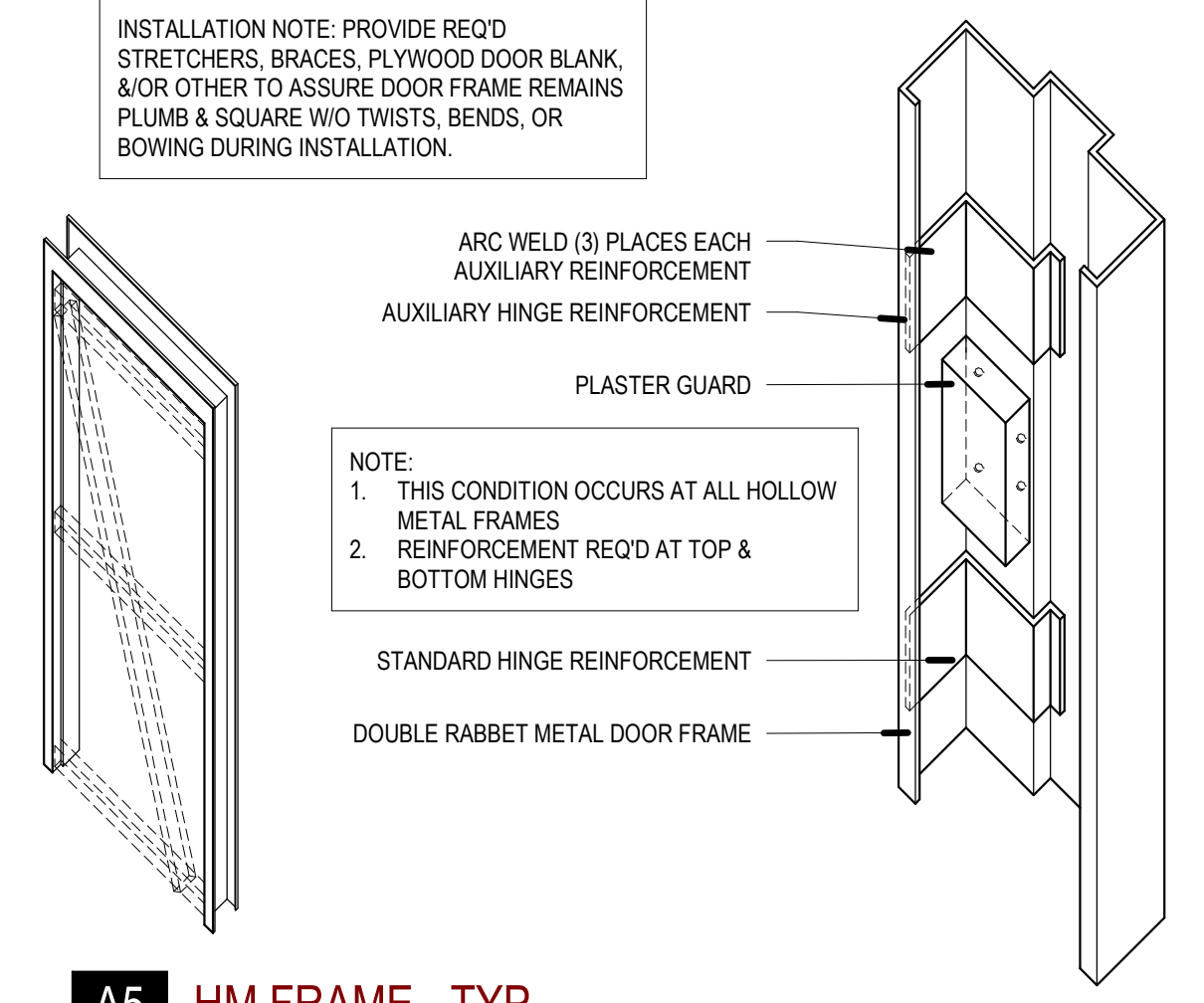
C6 HM DOOR JAMB
SCALE: 3" = 1'-0"



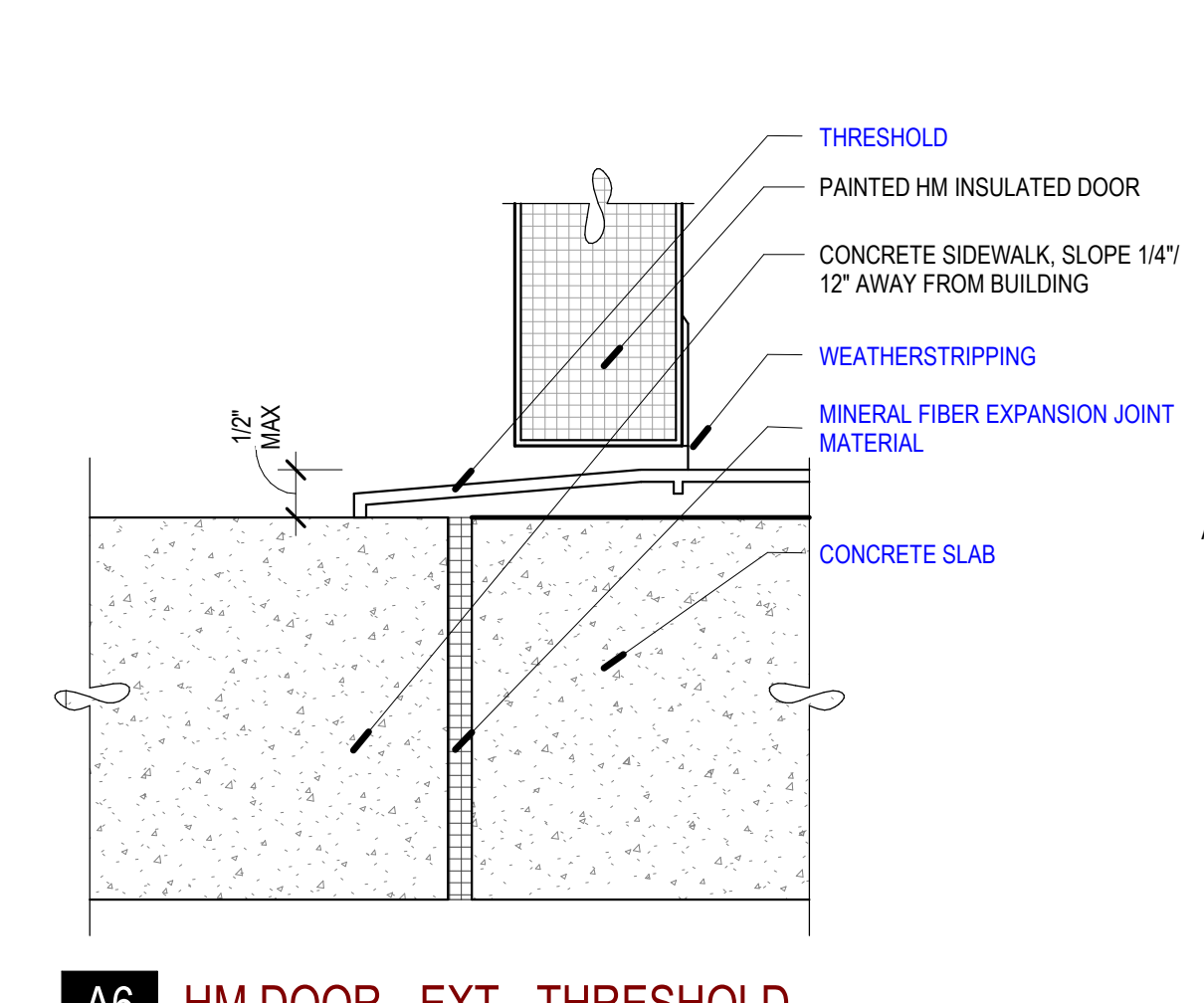
B5 HM DOOR - CORNER JAMB
SCALE: 3" = 1'-0"



B6 HM DOOR HEAD
SCALE: 3" = 1'-0"



A5 HM FRAME - TYP
SCALE: NOT TO SCALE



A6 HM DOOR - EXT - THRESHOLD
SCALE: 6" = 1'-0"

REV	DATE	DESCRIPTION

VCBO NUMBER: 22305
CLIENT NUMBER: 00000
DATE: 05/31/2022

IMED OP MULTI-PURPOSE IMAGING ROOM
INTERMOUNTAIN HEALTHCARE
5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
CONSTRUCTION DOCUMENTS

REV	DATE	DESCRIPTION

VCBO NUMBER: 22305
DATE: 05/31/2022

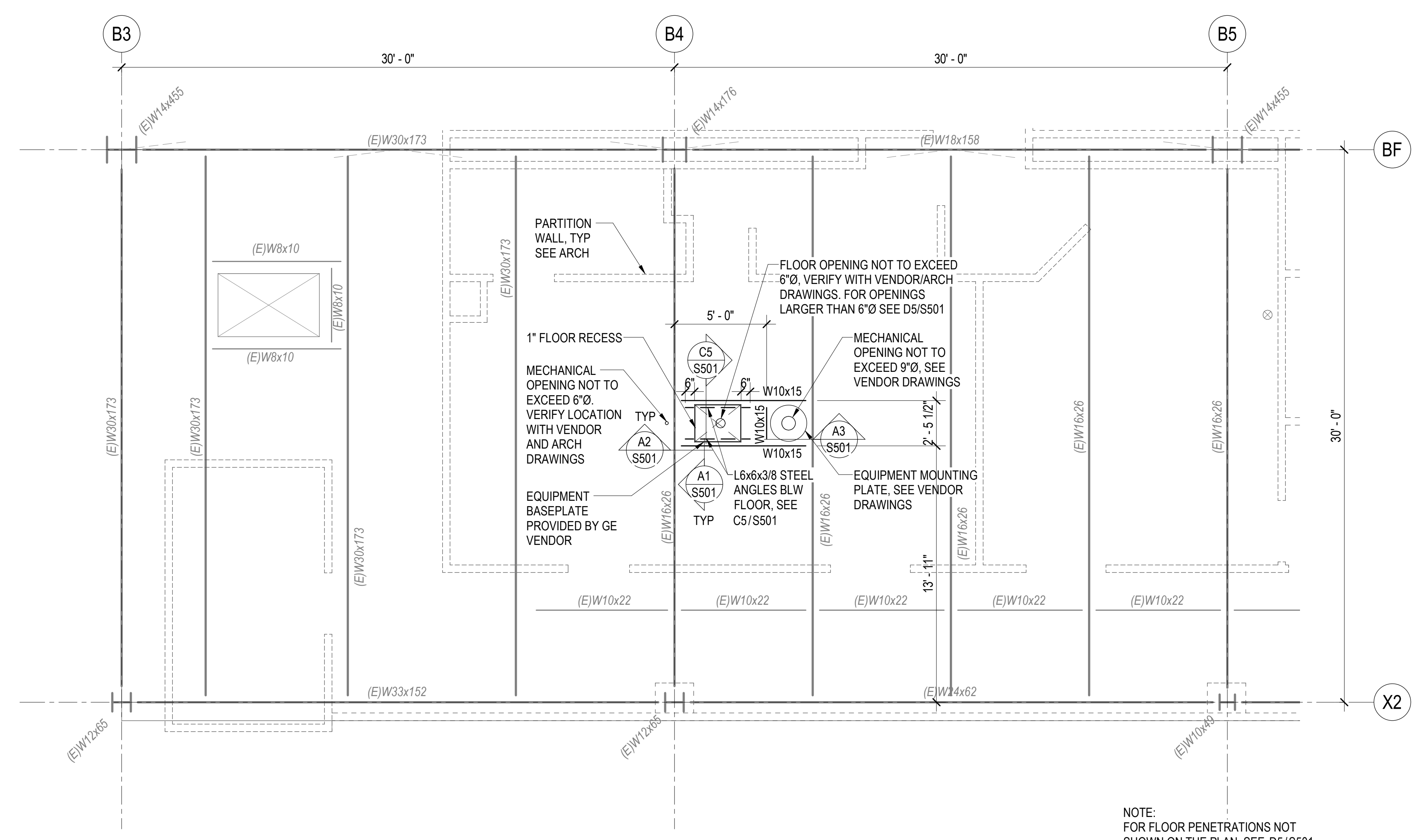
IMED OP MULTI-PURPOSE IMAGING ROOM

INTERMOUNTAIN HEALTHCARE
5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
CONSTRUCTION DOCUMENTS

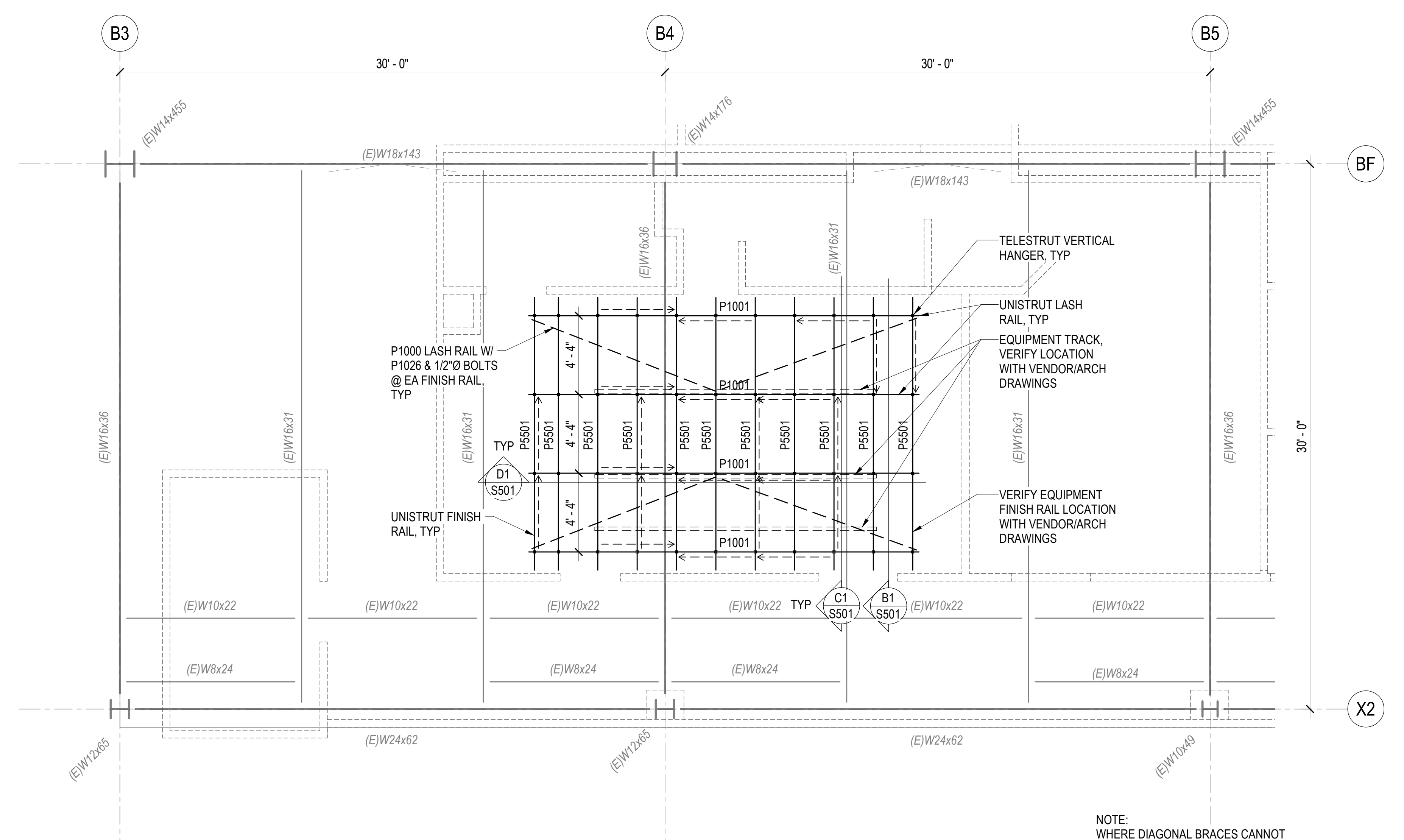
- ### EXISTING BUILDING NOTES
1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DETAILING, FABRICATING, ERECTING OR INSTALLING ANY STRUCTURAL ELEMENT. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM IN A TIMELY MANNER SUCH THAT WORK WILL NOT BE DELAYED.
 2. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING OF NEW STRUCTURE DURING CONSTRUCTION.
 3. REPAIR FIREPROOFING WHERE DAMAGED DURING CONSTRUCTION.
 4. FILL EXISTING EQUIPMENT HOLES IN FLOOR PER C4/S501 U.N.O.

- ### TYPICAL NOTES AT NEW RECESSES
1. EXISTING COMPOSITE STEEL BEAMS W/ 5" LONG HEADED STUD ANCHORS OCCUR UNDER NEW RECESSES. MINIMUM COVER OVER EXISTING HEADED STUDS IS 1/2". TOTAL SLAB THICKNESS IS 6.1/2". THEREFOR RECESS SHALL NOT EXCEED 1".
 2. PROTECT CONCRETE OVER METAL DECK FROM DAMAGE DURING INSTALLATION OF RECESSES. CONCRETE AND METAL DECK ACT COMPOSITELY. SEVERE DAMAGE TO THE BOND BETWEEN THE CONCRETE AND METAL DECK WILL OCCUR IF EXCESSIVE VIBRATION OR IMPACT IS USED. DO NOT USE CHIPPING HAMMERS OR OTHER TOOLS THAT COULD CAUSE THE CONCRETE TO CRACK THROUGH OR DAMAGE THE BOND BETWEEN THE CONCRETE AND METAL DECK.
 3. DO NOT OVER CUT RECESSES.

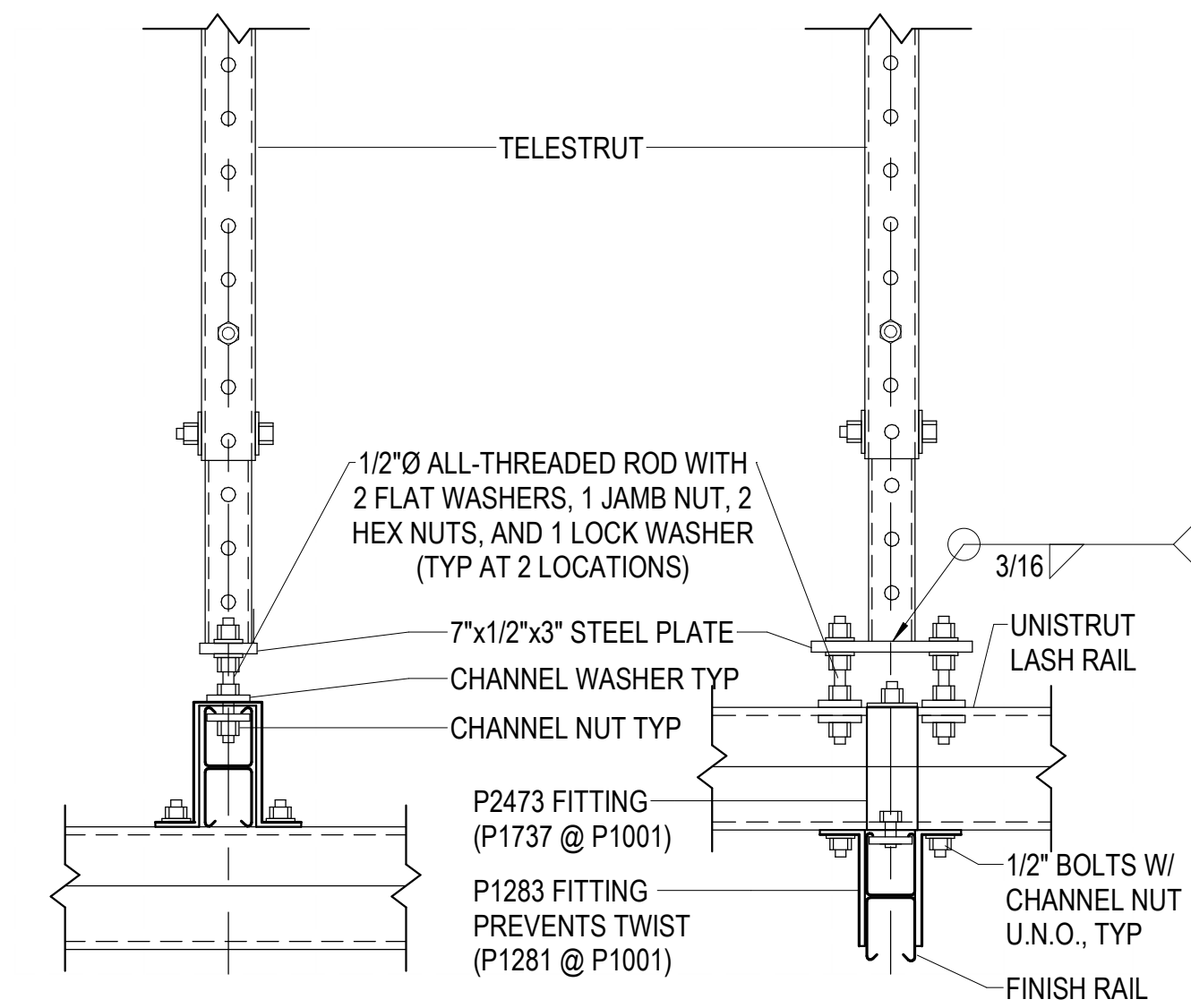
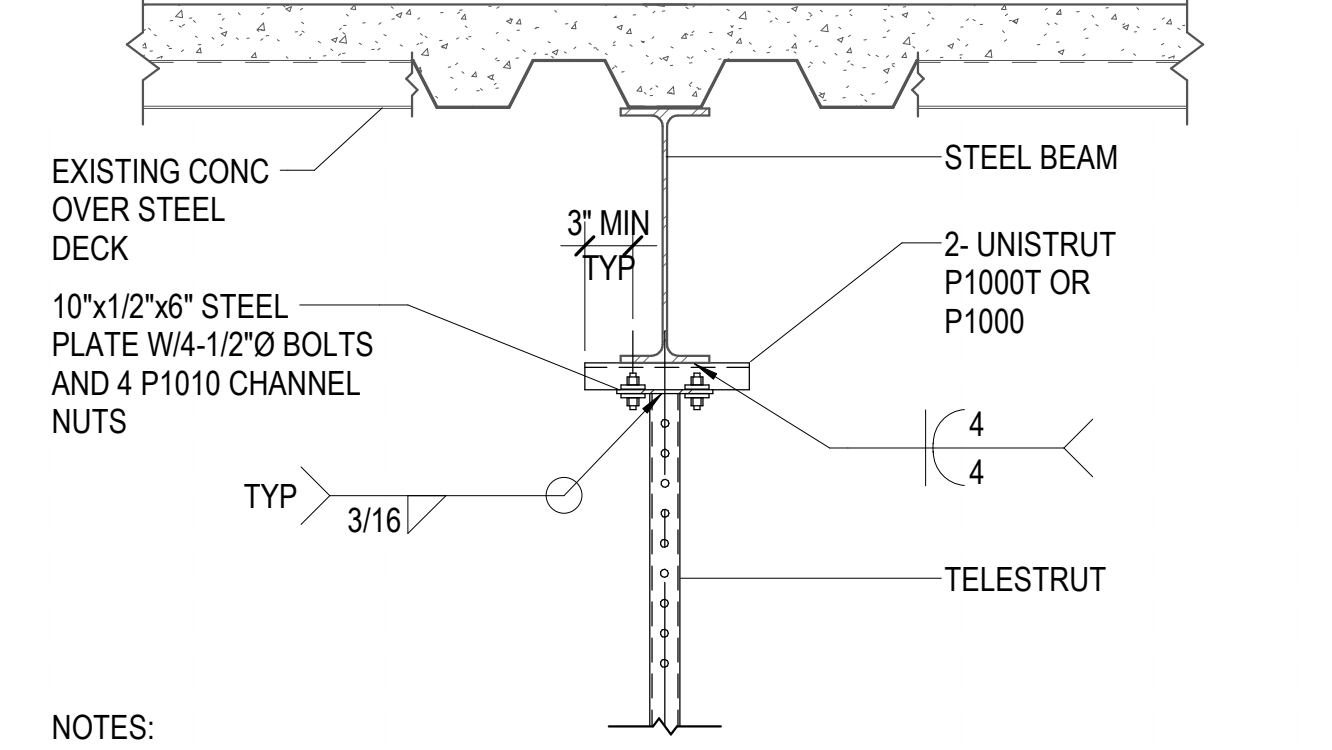
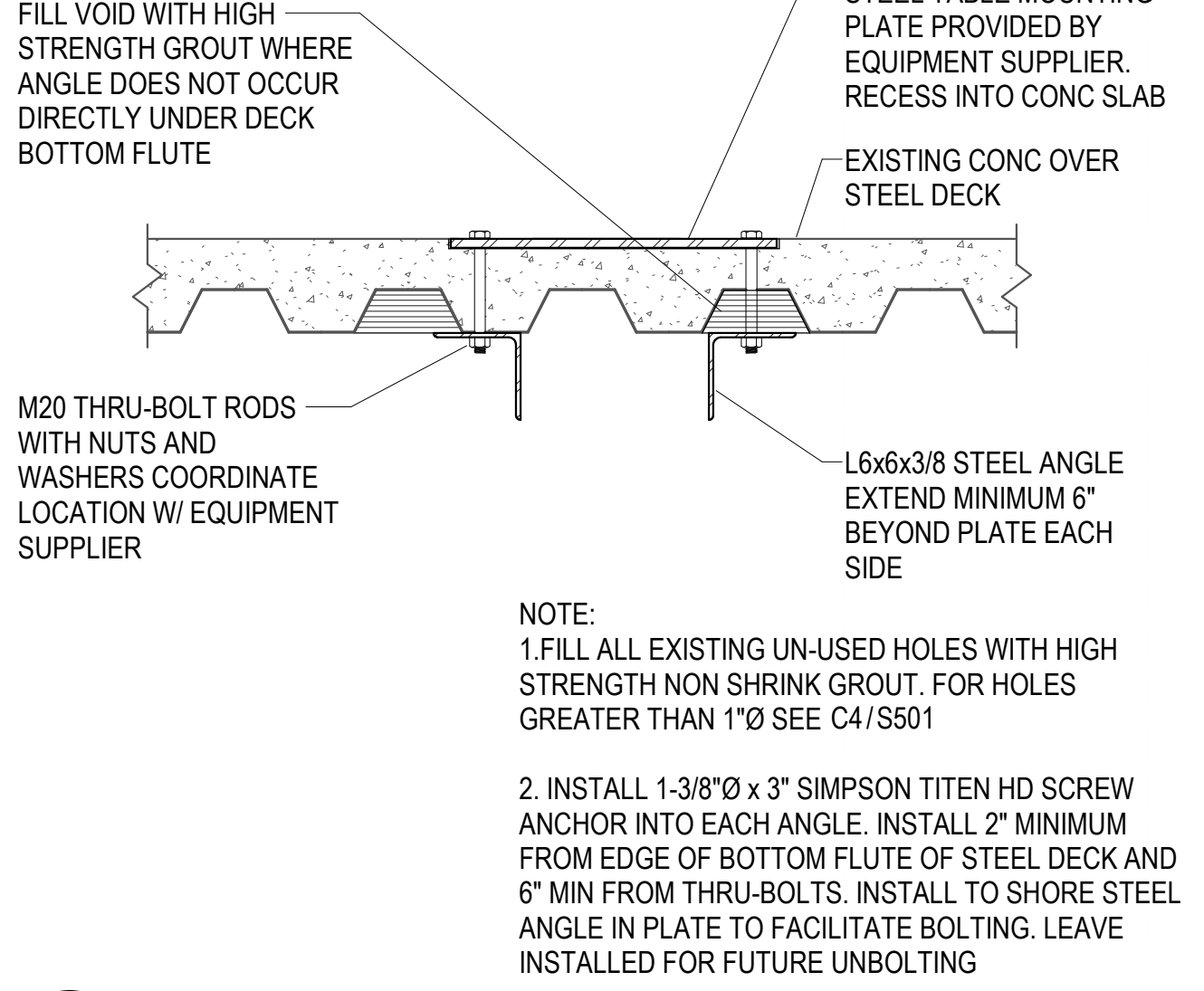
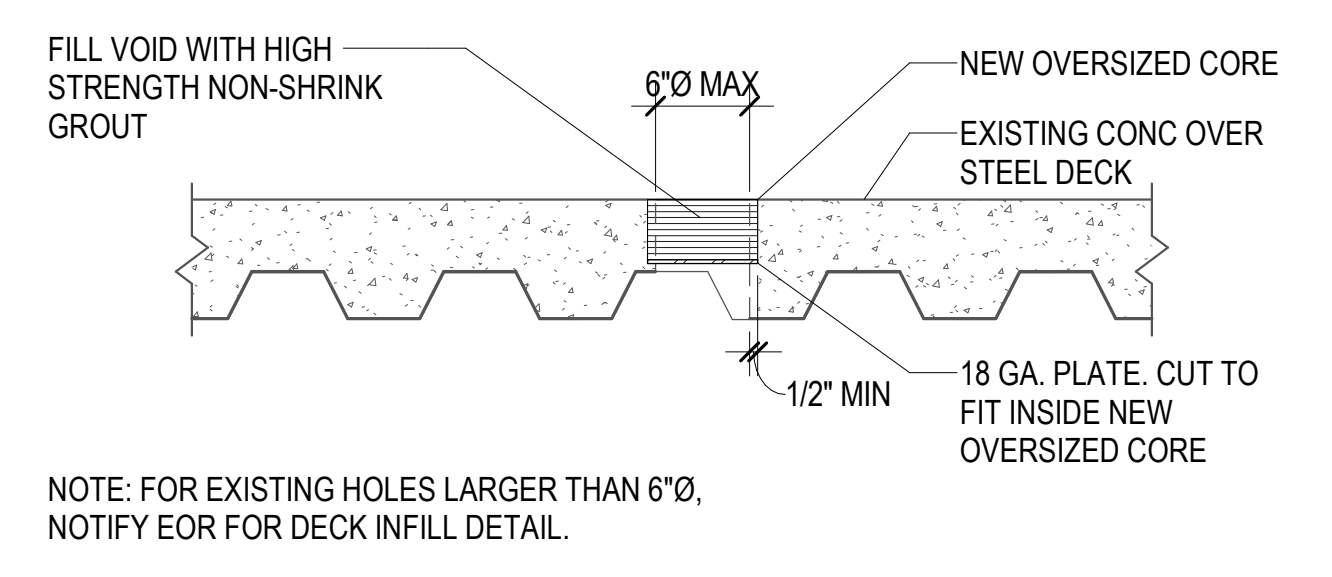
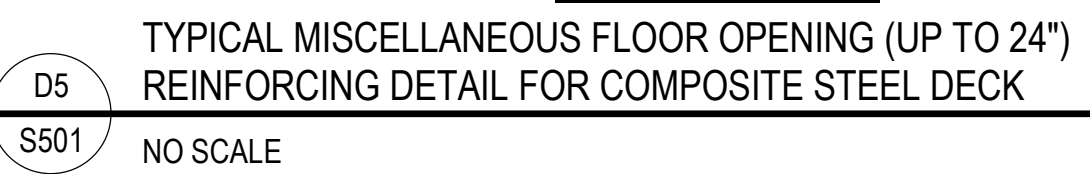
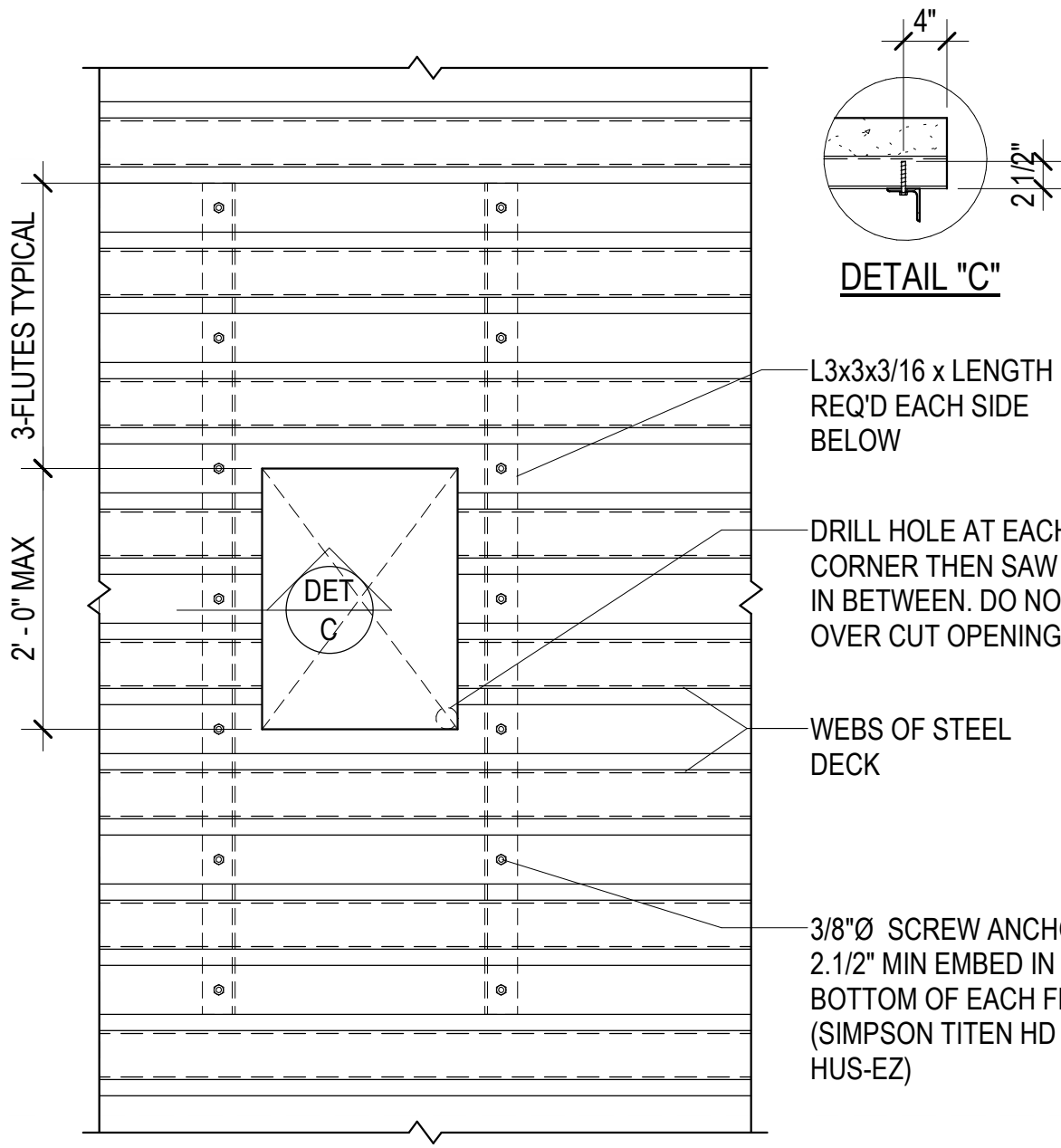
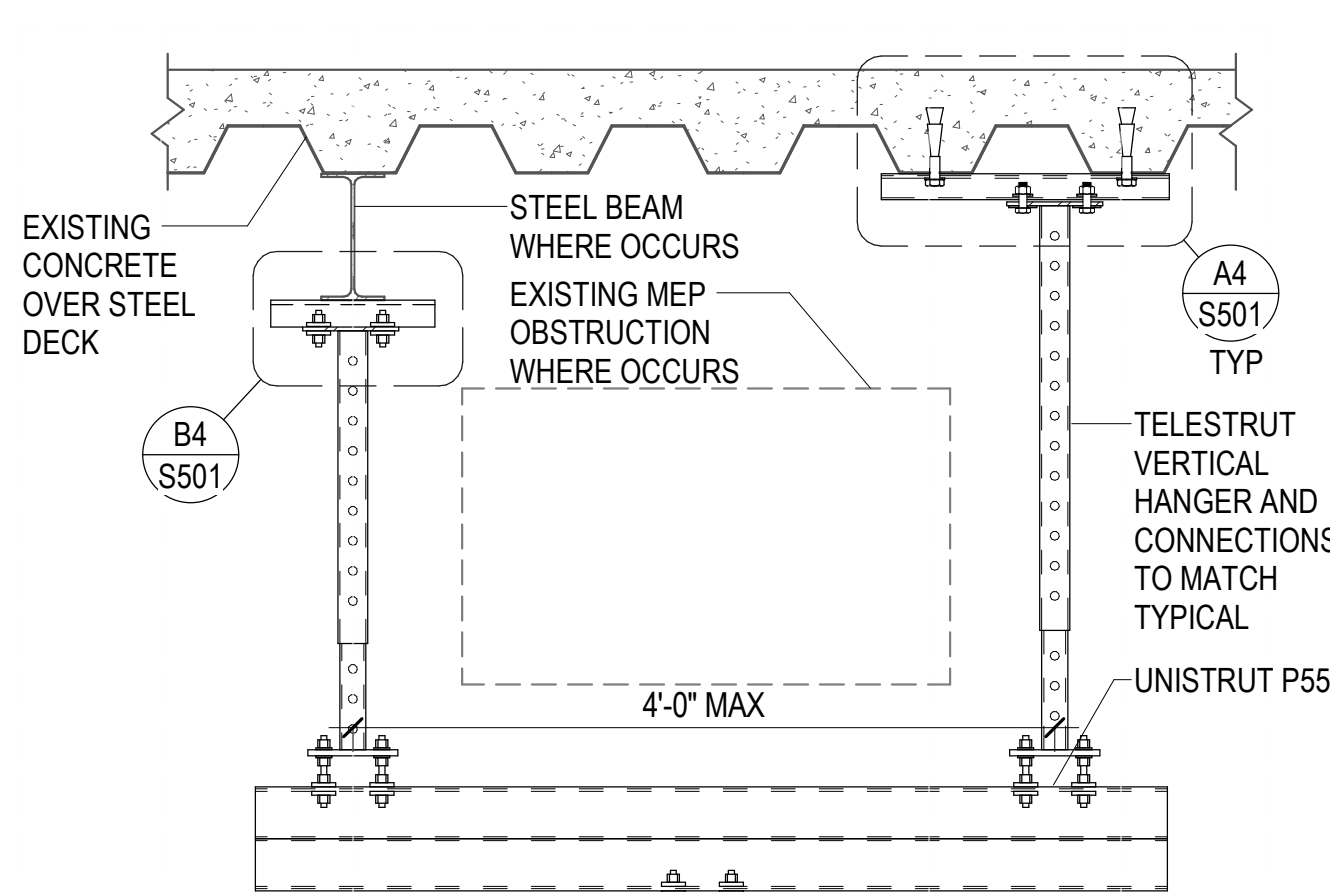
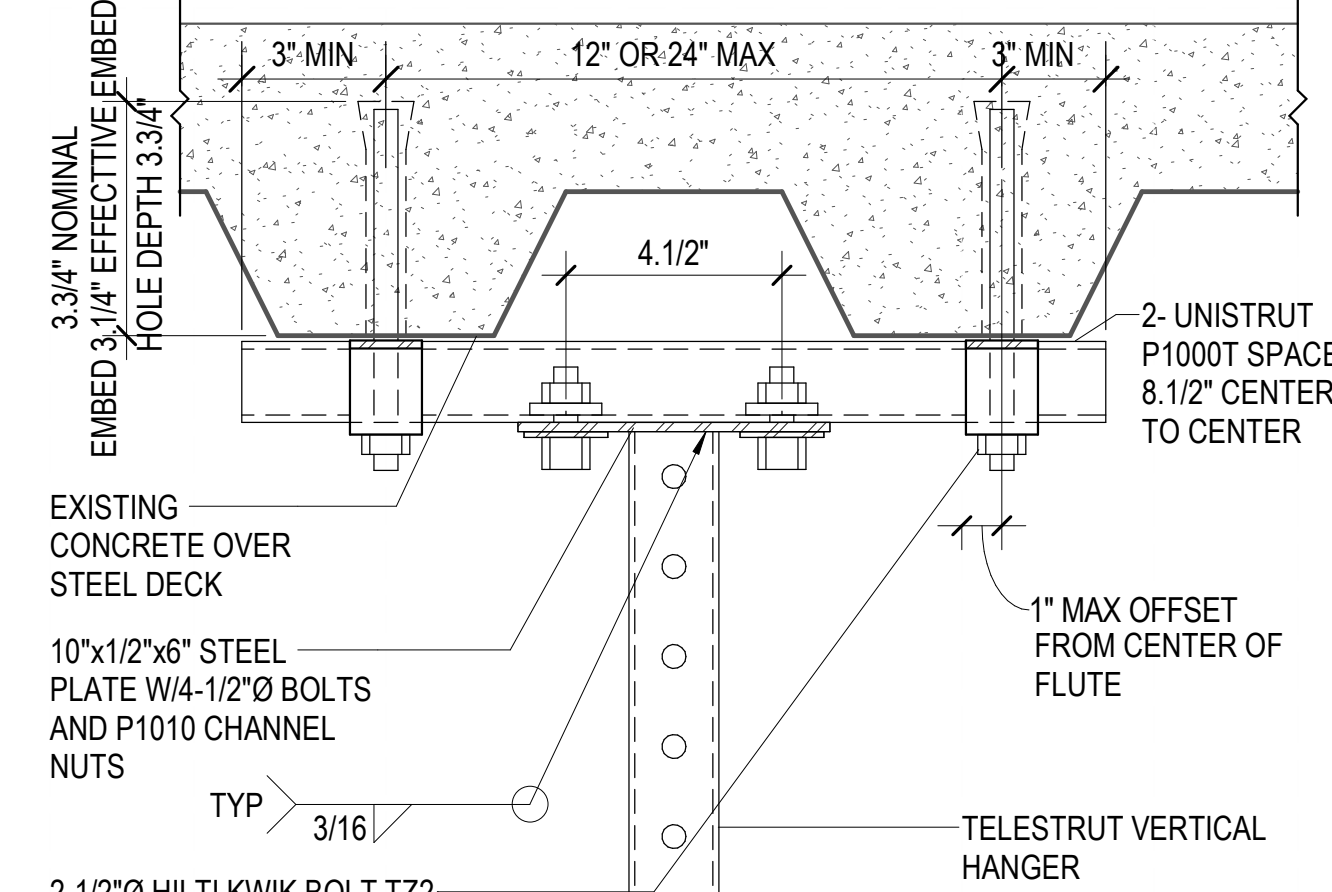
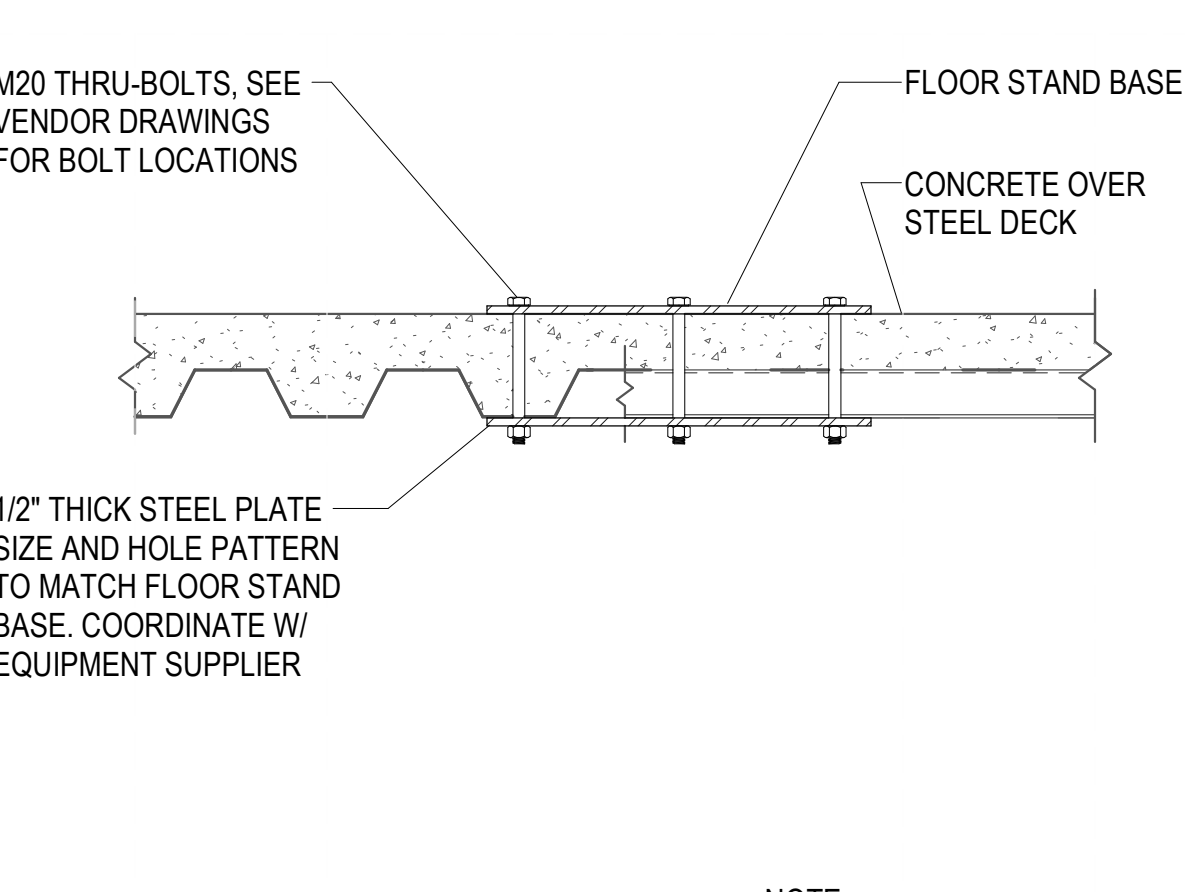
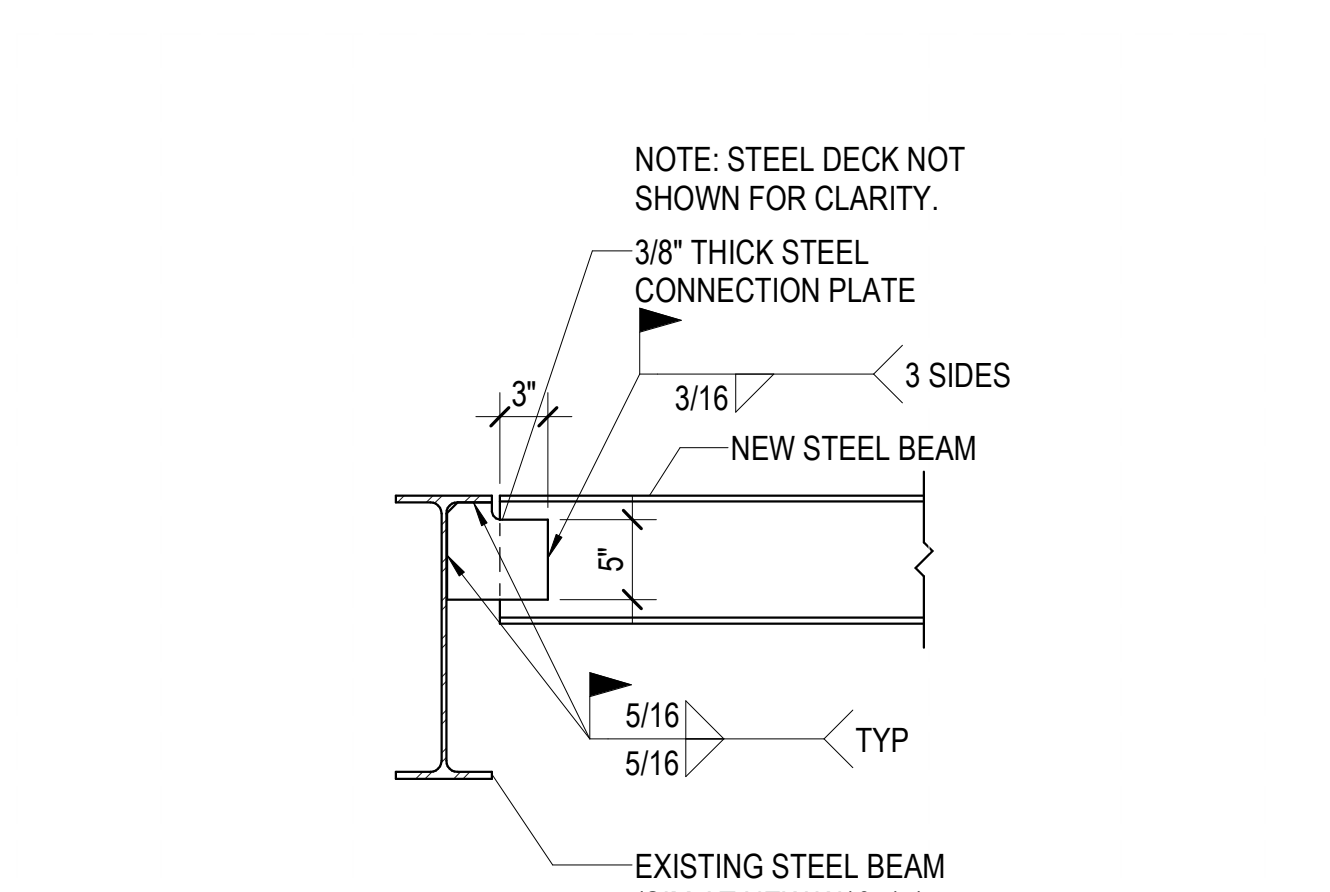
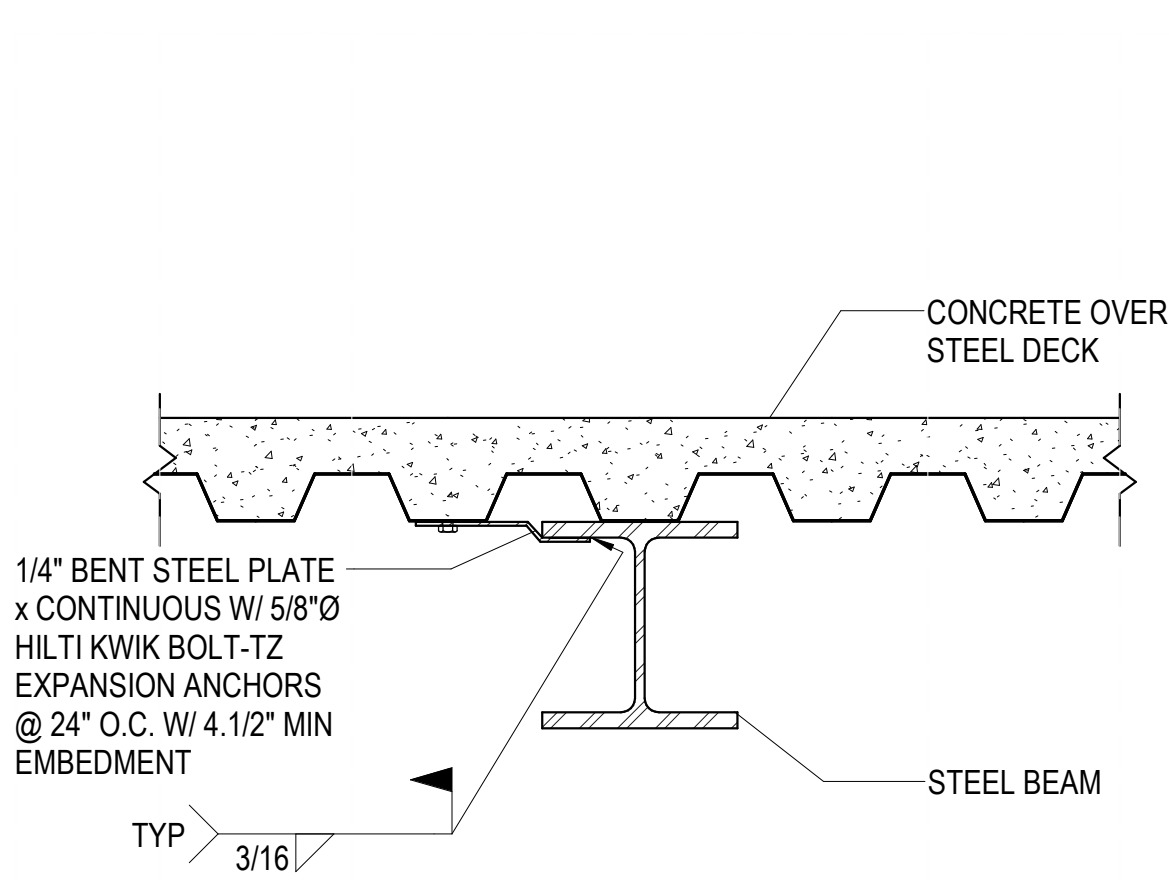
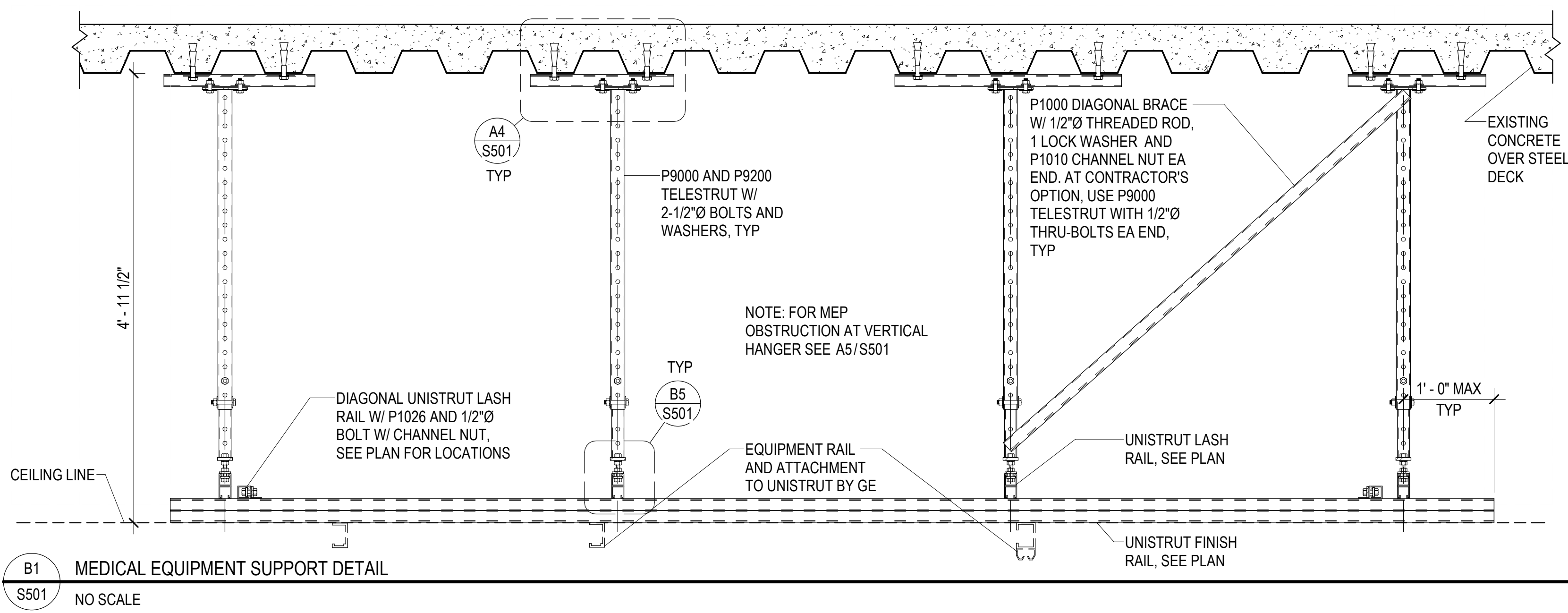
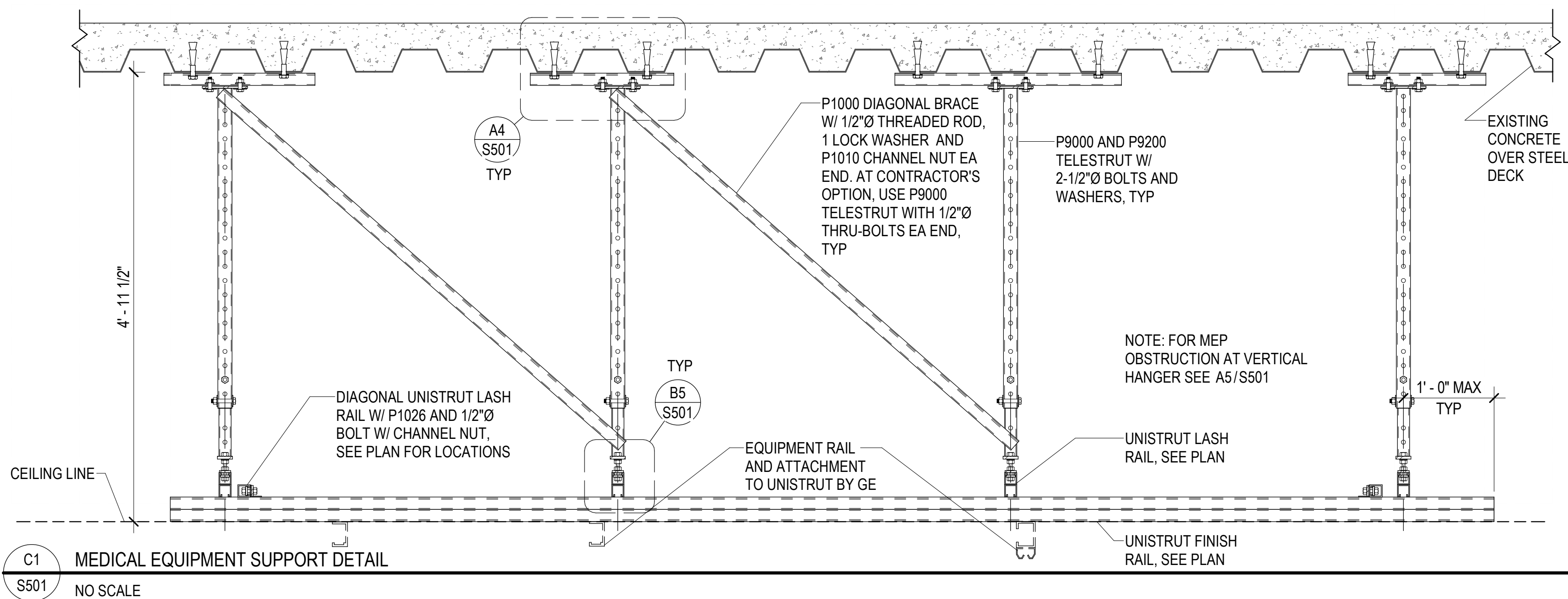
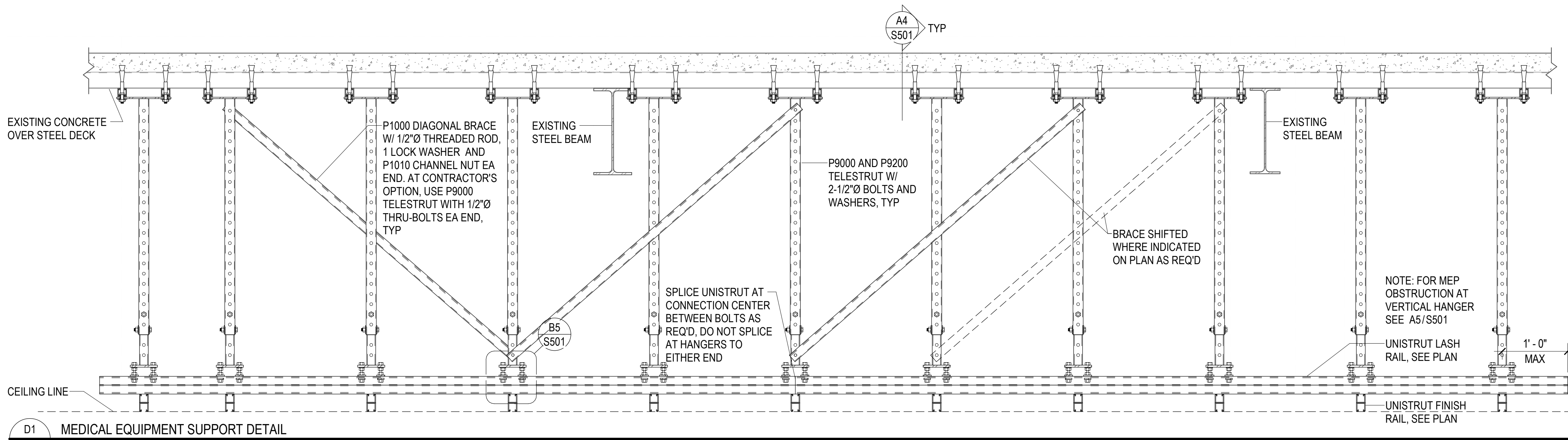
- ### MEDICAL EQUIPMENT SUPPORT
1. VERIFY EQUIPMENT SUPPORT DIMENSIONS WITH MEDICAL EQUIPMENT VENDORS AND ARCHITECTURAL PRIOR TO FABRICATION.
 2. DESIGN FOR SUPPORTS IS BASED OFF OF GE DRAWINGS SET REV# A DATED 05/11/2022



LEVEL 2 FRAMING PLAN
SCALE: 1/4" = 1'-0"



LEVEL 3 FRAMING PLAN
SCALE: 1/4" = 1'-0"



NOTES:
1. UNREINFORCED OPENINGS
A. OPENINGS UP TO 6" Ø DO NOT REQUIRE REINFORCING PROVIDED THEY ARE NOT SPACED LESS THAN 32" O.C.
2. SAW-CUT OPENINGS
A. SHIM GAPS BETWEEN ANGLE AND BOTTOM FLUTE.
B. INSTALL ANCHORS PER ICC REPORT.
3. GROUPED OPENINGS
A. OPENINGS SPACED CLOSER THAN THE MIN SPACING SHALL BE REINFORCED AS A SINGLE OPENING.
B. THE SIZE OF OPENINGS MEASURED PARALLEL TO THE DECK FLUTES IS NOT LIMITED.
4. OPENINGS LARGER THAN ALLOWED ON THESE DETAILS REQUIRE A FRAME. CONTACT ENGINEER IF FRAME IS NOT PROVIDED ON THE PLAN.

NOTES:
1. REPAIR FIREPROOFING WHERE DAMAGED.
2. FOR BEAMS UP TO 3/4" FLANGE THICKNESS, UNISTRUT P2785 BEAM CLAMPS ON BOTH ENDS OF FLANGES ARE PERMITTED FOR ERECTION PURPOSES. CONTRACTOR SHALL WELD UNISTRUT TO BEAM AS INDICATED PRIOR TO INSTALLING EQUIPMENT.
3. CENTER TELESTRUT UNDER BEAM U.A.O.
4. AT CONTRACTOR'S OPTION, WELD STEEL PLATE DIRECTLY TO BEAM WITH 3/16" FILLET WELD EA SIDE.

NOTE: PROVIDE DIAGONAL BRACES TO THE BOTTOM OF THE TWO VERTICAL HANGERS IN EACH DIRECTION TO MATCH TYPICAL

NOTE: EXPANSION ANCHORS IN CONCRETE OVER STEEL DECK SHALL NOT BE CLOSER THAN 6" FROM EXISTING PENETRATIONS IN DECK

NOTE: FILL VOID WITH HIGH STRENGTH NON-SHRINK GROUT. FOR HOLES GREATER THAN 1" Ø SEE C4/S501

NOTE:
1. FILL ALL EXISTING UN-USED HOLES WITH HIGH STRENGTH NON SHRINK GROUT. FOR HOLES GREATER THAN 1" Ø SEE C4/S501
2. INSTALL 1-3/8" Ø x 3" SIMPSON TITEN HD SCREW ANCHOR INTO EACH ANGLE. INSTALL 2" MINIMUM FROM EDGE OF BOTTOM FLUTE OF STEEL DECK AND 6" MIN FROM THRU-BOLTS. INSTALL TO SHORE STEEL ANGLE IN PLATE TO FACILITATE BOLTING. LEAVE INSTALLED FOR FUTURE UNBOLTING

GENERAL MECHANICAL SYMBOLS

	REVISION NUMBER - SHOWN ON PLANS
	POINT WHERE NEW CONNECTS TO EXISTING
	POINT WHERE EXISTING IS TO BE DEMOLISHED
	NUMBER OF DETAIL ON SHEET
	NUMBER OF SHEET WHERE DETAIL APPEARS
	KEYNOTE
	CONTINUATION SYMBOL
	ROOM NAME AND NUMBER
	ITEM TO BE DEMOLISHED
	AREA NOT IN CONTRACT
	PIPE SIZE TAG (DIAMETER)
	ABOVE GROUND PIPING
	PIPE SLOPE TAG
	BELOW GROUND PIPING
	PIPE INVERT ELEVATION TAG
	EXISTING PIPE TAG
	PIPING BEING DEMOLISHED

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MIA	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NORMALLY CLOSED
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
D	DEGREE	O	OXYGEN
DB	DRY BULB	O/A	OUTSIDE AIR
DCW	DOMESTIC COLD WATER	PD	PRESSURE DROP
DHW	DOMESTIC HOT WATER	PVI	POST INDICATOR VALVE
DIA	DIAMETER	PLBG	PLUMBING
DN	DOWN	PRESS	PRESSURE
DW	DISTILLED WATER	PRV	PRESSURE REDUCING VALVE
EA	EACH	PSI	POUNDS PER SQUARE INCH
EAT	ENTERING AIR TEMPERATURE	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	R	DUCT RISER
EWC	ELECTRIC WATER COOLER	R/A	RETURN AIR
EWI	ENTERING WATER TEMPERATURE	ROP	RADIANT CEILING PANEL
EJA	EXHAUST AIR	RD	ROOF DRAIN
EXIST	EXISTING	RDO	ROOF DRAIN OVERFLOW
F	DEGREES FAHRENHEIT	REC	RECESSED
FOO	FLOOR CLEAN OUT	RED	REDUCER
FD	FLOOR DRAIN	RH	RELATIVE HUMIDITY
FD	FIRE DAMPER	RLA	RELIEF AIR
FDV	FIRE DEPARTMENT VALVE	RM	ROOM
FL	FLOOR	RPM	REVOLUTIONS PER MINUTE
FO	FUEL OIL	RW	RAIN WATER
FOV	FUEL OIL VENT	SF	SQUARE FOOT
FOR	FUEL OIL RETURN	SIA	SUPPLY AIR
FOS	FUEL OIL SUPPLY	SAN	SANITARY
FS	FLOOR SINK	SF	SQUARE FOOT
FS	FLOOR SINK	SD	SMOKE DAMPER
FPM	FEET PER MINUTE	SM	SURFACE MOUNT
FT	FOOT/FEET	SP	STANDPIPE
FTR	FIN TUBE RADIATION	SP	STATIC PRESSURE
GAL	GALLON	STM	STEAM
GC	GENERAL CONTRACTOR	T	THERMOSTAT
GPM	GALLONS PER MINUTE	TD	TRENCH DRAIN
GW	GREASE WASTE	TDR	TEMPERATURE DROP
HB	HOSE BIB	TEMP	TEMPERATURE
HP	HORSE POWER	TYP	TYPICAL
HTG	HEATING	UG	UNDERGROUND
HTR	HEATER	VAC	VACUUM
HYD	HYDRANT	V	VENT
ID	INDIRECT	VAV	VARIABLE AIR VOLUME
IN	INCH	VENT	VENTILATION
INV	INVERT	VTR	VENT THROUGH ROOF
LB	POUND	W	WASTE
LB/HR	POUNDS PER HOUR	WB	WET BULB
LAT	LEAVING AIR TEMPERATURE	WCO	WALL CLEAN OUT
LP	LOW PRESSURE	WH	WALL HYDRANT
LPG	LIQUEFIED PETROLEUM GAS		

HVAC SYMBOLS

DAMPER TAGS

	FIRE DAMPER		MANUAL BALANCING DAMPER
	SMOKE DAMPER		BACKDRAFT DAMPER
	MOTORIZED DAMPER		COMBINATION FIRE/SMOKE DAMPER

HVAC SYMBOLS

	SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
	OVAL DUCT SIZE TAG (WIDTH / HEIGHT)
	ROUND DUCT SIZE TAG (DIAMETER)
	EXISTING DUCT TAG
	DUCT BEING DEMOLISHED
	SUPPLY AIR - LOW PRESSURE
	SUPPLY AIR - MEDIUM PRESSURE
	CONDITIONED OUTSIDE AIR
	OUTSIDE AIR
	RETURN AIR
	TRANSFER AIR
	EXHAUST AIR
	RELIEF AIR
	GREASE EXHAUST AIR
	SMOKE EXHAUST AIR
	EXHAUST GAS FLUE
	COMBUSTION AIR
	RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
	ROUND SUPPLY/OUTSIDE AIR DUCT RISE
	RECTANGULAR RETURN/TRANSFER AIR DUCT RISE
	ROUND RETURN/TRANSFER AIR DUCT RISE
	RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE
	ROUND EXHAUST/RELIEF AIR DUCT RISE

GRILLES, REGISTERS & DIFFUSERS SYMBOLS AND TAGS

	SQUARE SUPPLY DIFFUSER	CFM	NECK SIZE
	RECTANGULAR SUPPLY DIFFUSER	THROW-150FPM/100FPM/50FPM	THROW PATTERN
	ROUND SUPPLY DIFFUSER	MAX NC RATING	MAX NC RATING
	RECTANGULAR EXHAUST GRILLE	CFM	NECK SIZE
	SQUARE EXHAUST GRILLE	CFM	NECK SIZE
	RECTANGULAR RETURN GRILLE	CFM	NECK SIZE
	SQUARE RETURN GRILLE	CFM	NECK SIZE

LINEAR DIFFUSER TAG

TYPE (SEE SCHEDULE) → [LSD1200] → [11'7 1/4" x 0'9 3/8"] → [6" x 0"] → [LSD1200] → [11'7 1/4" x 0'9 3/8"]

CFM NUMBER OF SLOTS / SLOT WIDTH / ACTIVE SLOT LENGTH (PLENUM LENGTH) / NECK SIZE

MECHANICAL EQUIPMENT TAGS

	VAV-XX	RTU-XX	RTU-XX
	VAV-XX	500 lb	500 lb
	VAV-XX	4.0 ton	4.0 ton
	VAV-XX	NOMINAL COOLING CAPACITY	NOMINAL COOLING CAPACITY
	VAV-XX	FUEL INPUT	FUEL INPUT
	VAV-XX	115000 Btu/h	115000 Btu/h
	VAV-XX	GAS PIPE FLOW	GAS PIPE FLOW
	VAV-XX	115 CFH	115 CFH

DATA DEVICE TAGS

	CO ₂ TH	RTU-XX	TEMPERATURE & HUMIDITY SENSOR
	CO	TS	TEMPERATURE SENSOR
	NO ₂	T	THERMOSTAT
	HS	IMS	MANUAL SWITCH
	H	S	HUMIDISTAT

PIPING SYMBOLS

	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	CONDENSATE DRAINAGE
	CONDENSER WATER RETURN
	CONDENSER WATER SUPPLY
	GEO THERMAL WATER RETURN
	GEO THERMAL WATER SUPPLY
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	NATURAL GAS
	PROPANE GAS
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	REFRIGERANT HOT GAS
	STEAM
	CONDENSATE RETURN
	COMBINATION WASTE & VENT
	COMPRESSED AIR
	DOMESTIC COLD WATER
	SOFT COLD WATER
	FILTERED COLD WATER
	REVERSE OSMOSIS WATER
	HOT WATER
	HOT WATER 140°
	HOT WATER RECIRCULATION
	HOT WATER RECIRCULATION 140°
	GREASE VENT
	GREASE WASTE
	INDIRECT WASTE
	OIL VENT
	OIL WASTE
	PUMP DISCHARGE
	SANITARY VENT
	SANITARY SEWER
	SOLAR HOT WATER RETURN
	SOLAR HOT WATER SUPPLY
	ROOF DRAIN
	ROOF DRAIN OVERFLOW

PIPE ACCESSORY TAGS

	2" DOM. WM		2" M-CNTRL
	2" BALANCING		2" 3-WAY CNTRL
	2" SHUTOFF		2" PRV
	2" CHECK		3" SOLENOID
	2" TMV		2" BUTTERFLY

DRAIN TAGS

	4" FD-1		4" AD-4
	4" FD-3P		4" DD-25
	4" FS-4		4" RD-12
	4" FD-13		4" RD-15

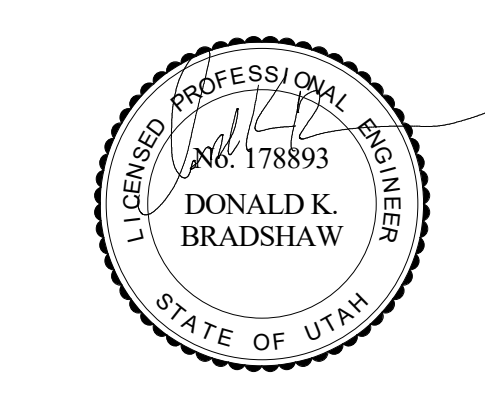
PLUMBING FIXTURE TAGS

TYPE (SEE SCHEDULE) → [LAV-1A] → [1.5 CWFU] → [1.5 HWFU] → [WC-1A] → [WC-1] → [1 WFU] → [U-1]

ROOF AREA SERVED BY DRAIN → 4000 SF

COMBINATION DRAINS

NOTE
THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.



181 East 5600 South
Murray, Utah 84107
O: (801)530-3148
www.vbfa.com
VBFA Project #: 22304

REV	DATE	DESCRIPTION
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VCBO NUMBER: 22305
DATE: 05/31/2022

IMED OP MULTI-PURPOSE IMAGING ROOM
 INTERMOUNTAIN HEALTHCARE
 5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
 CONSTRUCTION DOCUMENTS

MECHANICAL TITLE SHEET



FIRE PROTECTION GENERAL NOTES

- 1. NO FIRE PROTECTION LINE SHALL BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES... 2. ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL... 3. COORDINATE EXACT LOCATION OF PIPING WITH STRUCTURAL MEMBERS... 4. FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE AND/OR REDROUTE ANY AND ALL FIRE PROTECTION PIPING... 5. PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES... 6. THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE... 7. THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK... 8. PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES... 9. THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE... 10. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE... 11. DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM... 12. ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM... 13. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER... 14. AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES... 15. AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS... 16. AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE... 17. SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS... 18. FLOW TEST DATA FROM ### INDICATES THE FOLLOWING: STATIC PRESSURE # PSI, RESIDUAL PRESSURE # PSI AT # GPM... 19. ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS... 20. THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY... 21. THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS

PLUMBING GENERAL NOTES

- 1. UNLESS OTHERWISE NOTED, SLOPE PIPE AS FOLLOWS: WASTE BRANCHES: 1/4" PER FOOT... 2. ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL... 3. PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE... 4. ALL PIPING IN PLUMBING CHASES SHALL BE ARRANGED TO ALLOW MAINTENANCE ACCESS... 5. NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S... 6. COORDINATE FAN ROOM FLOOR DRAIN AND FLOOR SINK LOCATIONS WITH COOLING COIL, EVAPORATIVE SECTION, AND HEATING COIL LOCATIONS... 7. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED... 8. PIPING AND ROUTING SHOWN, INCLUDING ALL BELOW FLOOR DECK PIPING IS APPROXIMATE... 9. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS... 10. CONTRACTOR TO VERIFY CONNECTION SIDE OF ADA FIXTURES AND ADJUST ACCORDINGLY... 11. LOCATE ALL VENTS MINIMUM 25" AWAY FROM AIR INTAKES... 12. INSTALL ALL DOMESTIC WATER LINES BELOW DUCTWORK... 13. INSTALL A 24" X 24" ACCESS DOOR BELOW ALL ISOLATION VALVES... 14. MOUNT ALL ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES... 15. INSTALL ALL EQUIPMENT WITH SUFFICIENT CLEARANCE FOR MAINTENANCE... 16. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL... 17. COORDINATE THE LOCATION OF THE FLOOR DRAIN, SHOWER DRAIN... 18. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE, VENT AND DOMESTIC WATER... 19. HOSE BIBBS SHOWN AT LAVATORIES ARE TO BE MOUNTED AT AN ACCESSIBLE LOCATION... 20. LOCATE CIRCUIT SETTERS, VALVES, WATER HAMMER ARRESTORS... 21. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES... 22. FIELD VERIFY ALL NEW WATER, WASTE AND VENT PIPING CONNECTIONS... 23. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR TO BE 2" MINIMUM DOOR... 24. INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED... A. SIZE SAME AS DRAINAGE PIPING... B. LOCATE AT MINIMUM INTERVALS OF 50 FT... C. LOCATE AT THE BASE OF EACH VERTICAL STACK

MEDICAL GAS GENERAL NOTES

- 1. MEDICAL GAS PIPING IS TO BE RUN ABOVE THE CEILING... 2. MEDICAL GAS PIPING IS SCHEMATIC IN NATURE... 3. MOUNT ALL SERVICE VALVES NEAR CEILING HEIGHT... 4. ALL SERVICE VALVES SHALL BE LOCKABLE... 5. ALL ZONE VALVE BOXES REQUIRE SOURCE AIR FROM LEFT SIDE AND CONTROLLED AIR FROM RIGHT SIDE

MECHANICAL GENERAL NOTES

- 1. COORDINATE EXACT PLACEMENT OF DIFFUSERS, GRILLES AND REGISTERS... 2. SEE DETAIL FOR DIFFUSER CONNECTIONS TO DUCTWORK... 3. BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK INLET SIZE... 4. COORDINATE EXACT MOUNTING LOCATION OF ALL THERMOSTATS... 5. THE MECHANICAL CONTRACTOR SHALL PROVIDE FIRE, SMOKE OR COMBINATION FIRE/SMOKE DAMPERS AT ALL LOCATIONS... 6. PROVIDE AND INSTALL TURNING VANES IN ALL SQUARE LOW PRESSURE DUCTWORK... 7. INSTALL ALL TERMINAL BOXES IN EASILY ACCESSIBLE AND SERVICEABLE LOCATIONS... 8. DUCTWORK SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS... 9. PROVIDE AND INSTALL REMOTE DAMPER OPERATORS... 10. PROVIDE AND INSTALL HIGH EFFICIENCY TAKE-OFF FITTINGS... 11. PROVIDE AND INSTALL HIGH EFFICIENCY OR CONICAL TAKE-OFFS AT ALL BRANCH CONNECTIONS... 12. WHERE DUCTWORK CROSSES, SUPPLY DUCTWORK IS USUALLY BELOW RETURN AND EXHAUST DUCT... 13. AT LOCATIONS WHERE DIFFUSERS OR GRILLES ARE UNDER DUCTWORK... 14. THE MECHANICAL CONTRACTOR SHALL PROVIDE CEILING MOUNTED ACCESS DOORS... 15. ALL VAV BOXES TO HAVE REHEAT COILS... 16. PROVIDE ACCESS DOORS TO ACCESS VAV BOX CONTROLS... 17. FLEX DUCT IS REQUIRED FOR ALL DIFFUSERS AND GRILLES... 18. THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS... 19. PROVIDE ACCESS TO ALL TEMPERATURE CONTROLS... 20. SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE... 21. CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS... 22. REFER TO MECHANICAL PIPING OR ZONING DRAWINGS... 23. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT... 24. PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT... 25. ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G... 26. THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON SVAC EQUIPMENT

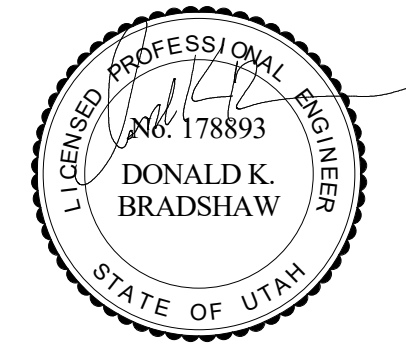
MECHANICAL PIPING GENERAL NOTES

- 1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED... 2. UNLESS OTHERWISE NOTED, ALL MECHANICAL PIPING IS OVERHEAD... 3. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS... 4. ALL VALVES SHALL BE INSTALLED SO THAT VALVES REMAINS IN SERVICE... 5. PROVIDE AIR VENT AT HIGH POINT OF EACH DROP... 6. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION... 7. PROVIDE ISOLATION VALVES AT EACH EXISTENTRANCE... 8. COORDINATE LOCATION OF THERMOSTAT WITH ARCHITECTURAL FURNISHING PLANS

PROJECT GENERAL NOTES

- 1. THE PROJECT GENERAL NOTES APPLY TO ALL DISCIPLINES... 2. REMOVE ALL UNUSED PIPING, DUCTWORK, EQUIPMENT, AND ACCESSORIES... 3. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS... 4. THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT... 5. WHERE FLOOR DRAINS OCCUR WITH THE LIMITS OF CONSTRUCTION... 6. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY... 7. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS... 8. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM... 9. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING... 10. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF... 11. COORDINATE INSTALLATION OF DUCTWORK, PIPING AND MECHANICAL EQUIPMENT... 12. FIRE SEAL AROUND DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS... 13. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS... 14. TRANSITION PIPING AND DUCTWORK SIZES TO MATCH THE SIZE OF EQUIPMENT CONNECTION... 15. REFER TO PLUMBING SERIES DRAWINGS FOR GAS PIPING... 16. ALL PIPE AND DUCT SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW... 17. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES... 18. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS... 19. MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED... 20. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL... 21. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED... 22. THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS... 23. IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS... 24. DETAILS REFERENCE ALL SHEETS... 25. INSTALL ALL PIPING AND DUCTWORK WITHOUT FORCING OR SPRINGING... 26. ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY WASTE... 27. LOCATE VALVING, ACCESSORIES, AND EQUIPMENT IN ACCESSIBLE LOCATIONS... 28. WHERE VALVING, ACCESSORIES, OR EQUIPMENT IS LOCATED IN A WALL... 29. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES

NOTE ALL OF THE GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.



181 East 5600 South Murray, Utah 84107 O: (801)530-3148 www.vbfa.com VBFA Project #: 22304

Table with 3 columns: REV, DATE, DESCRIPTION

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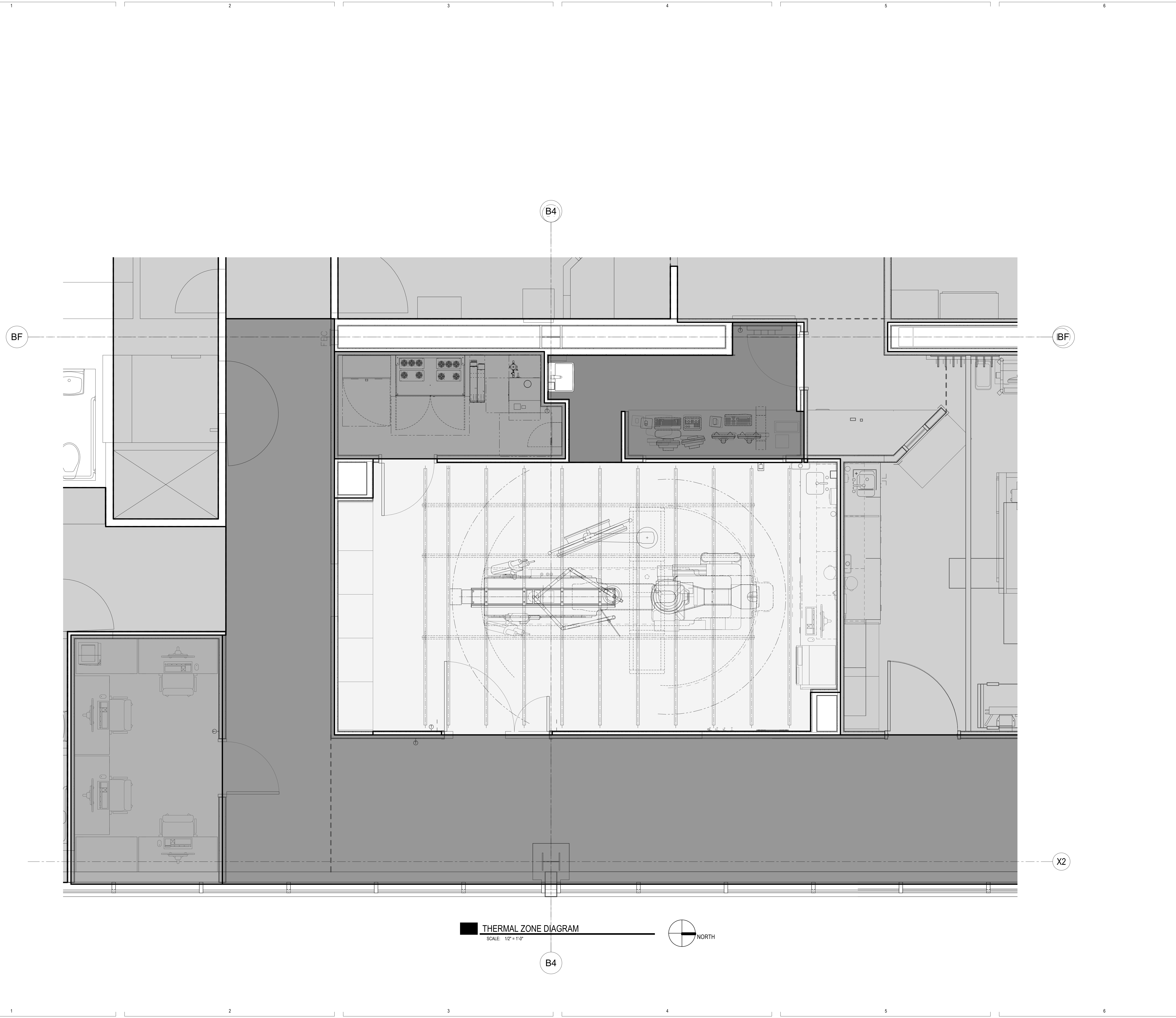
IMED OP MULTI-PURPOSE IMAGING ROOM INTERMOUNTAIN HEALTHCARE 5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107 CONSTRUCTION DOCUMENTS

MECHANICAL GENERAL NOTES

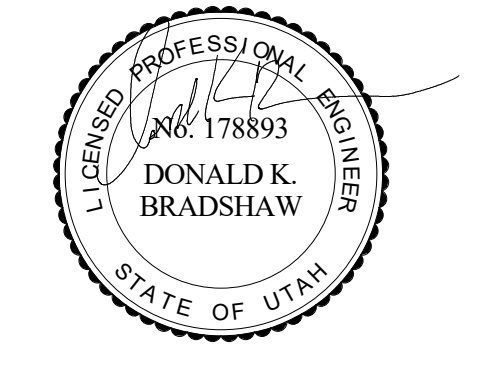
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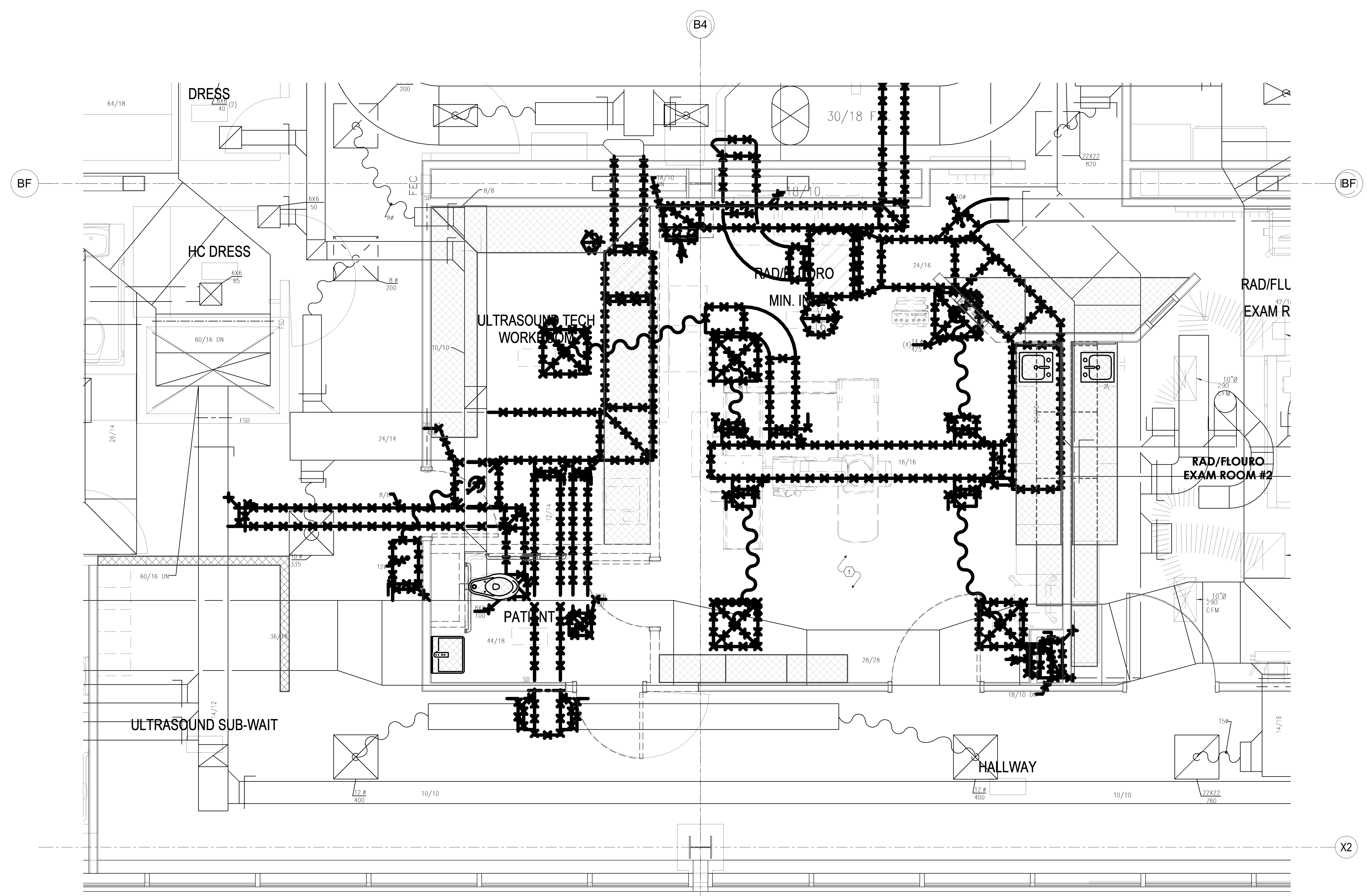


KEYNOTES
 1 EXISTING SHOWN LIGHT TO REMAIN. ITEMS CROSSED OUT TO BE REMOVED. CAP ALL UNUSED DUCTWORK. FIELD VERIFY EXISTING CONDITIONS. TYPICAL.



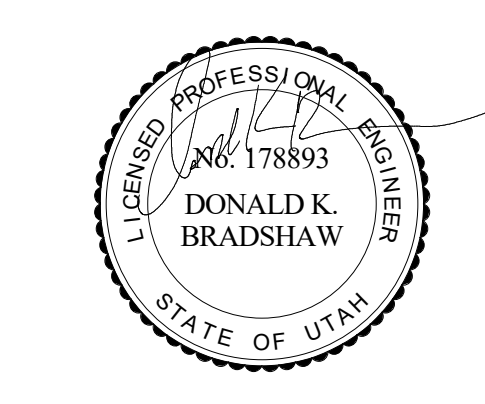
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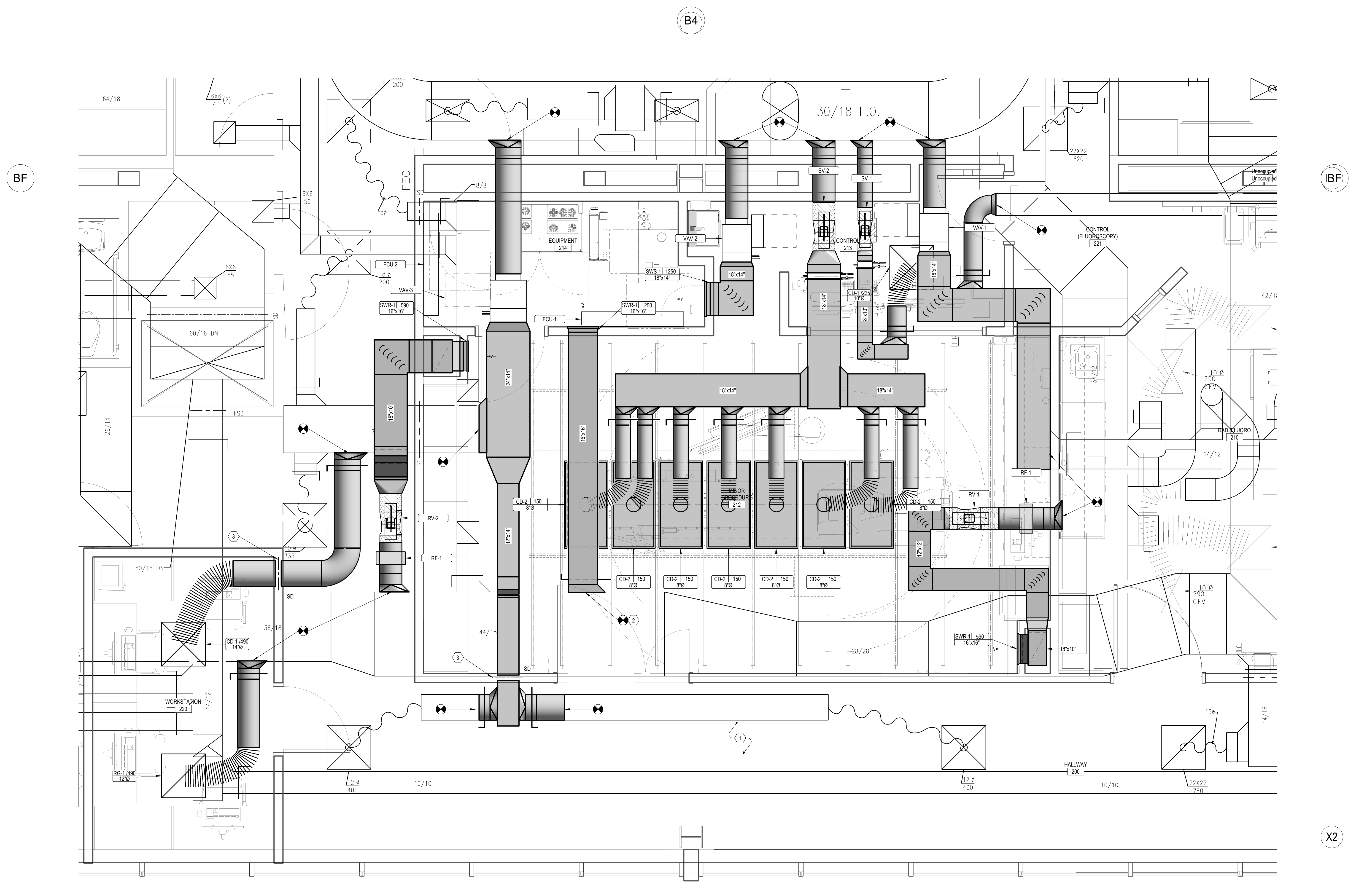
HVAC DEMOLITION PLAN
 SCALE: 1/2" = 1'-0"
 NORTH

- KEYNOTES**
- EXISTING SHOWN LIGHT TO REMAIN. NEW WORK SHOWN DARK. FIELD VERIFY EXISTING CONDITIONS. TYPICAL.
 - CONNECT TO EXISTING DUCT AT APPROXIMATELY THIS POINT. FIELD VERIFY. TYPICAL.
 - INSTALL NEW SMOKE DAMPER IN DUCT.

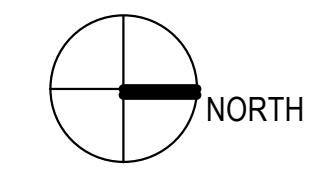


REV	DATE	DESCRIPTION

VCBO NUMBER: 22305
DATE: 05/31/2022



HVAC PLAN
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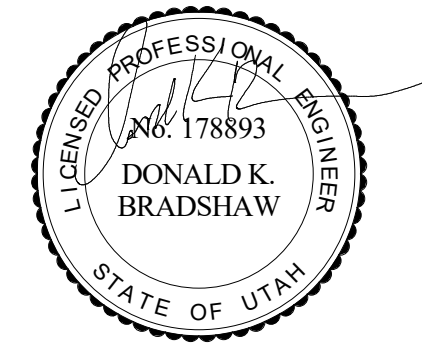
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INTERMOUNTAIN HEALTHCARE
5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
CONSTRUCTION DOCUMENTS

HVAC PLAN

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KEYNOTES
 1 EXISTING SHOWN LIGHT TO REMAIN. ITEMS CROSSED OUT TO BE REMOVED. CAP ALL UNUSED PIPING. FIELD VERIFY EXISTING CONDITIONS. TYPICAL.



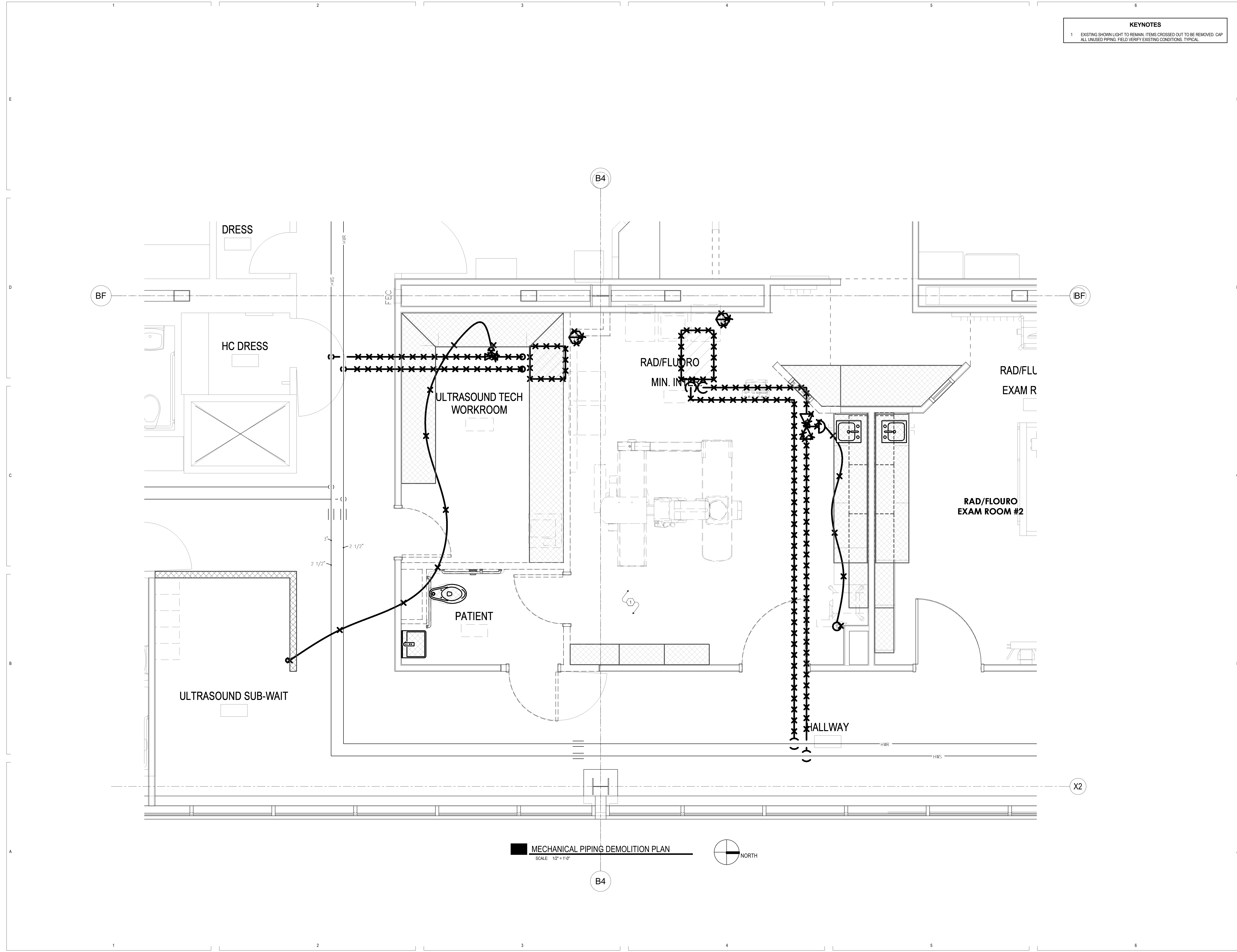
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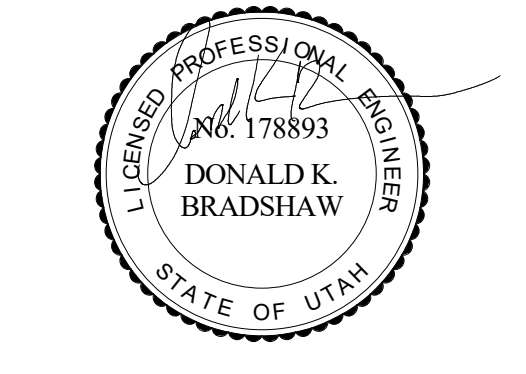
INTERMOUNTAIN HEALTHCARE
 5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
 CONSTRUCTION DOCUMENTS

MECHANICAL PIPING
 DEMOLITION PLAN



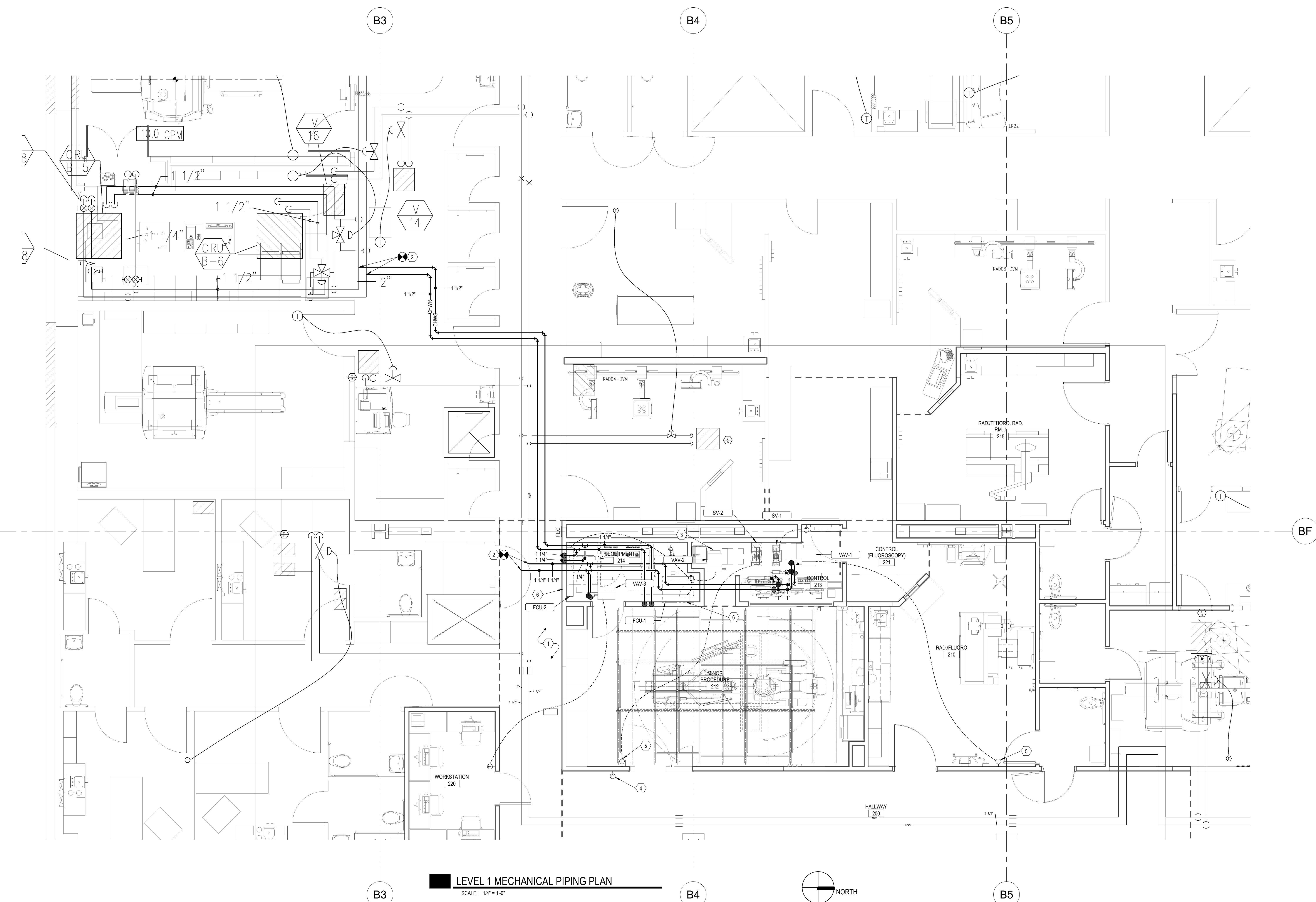
MECHANICAL PIPING DEMOLITION PLAN
 SCALE: 1/2" = 1'-0"
 NORTH

- KEYNOTES**
- EXISTING SHOWN LIGHT TO REMAIN. NEW WORK SHOWN DARK. FIELD VERIFY EXISTING CONDITIONS. TYPICAL.
 - CONNECT TO EXISTING PIPING AT APPROXIMATELY THIS POINT. FIELD VERIFY. TYPICAL.
 - VAV TO BE COOLING ONLY.
 - NEW THRU-WALL PRESSURE MONITOR. COORDINATE EXACT PLACEMENT WITH ARCHITECTURAL ELEVATIONS.
 - NEW THERMOSTAT. COORDINATE EXACT PLACEMENT OF THERMOSTAT WITH ARCHITECTURAL ELEVATIONS. TYPICAL.
 - ROUTE PIPING TO FAN COIL UNIT PER MANUFACTURER SPECIFICATIONS.

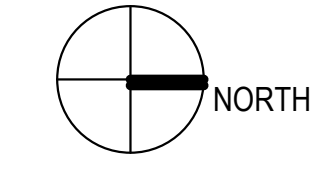


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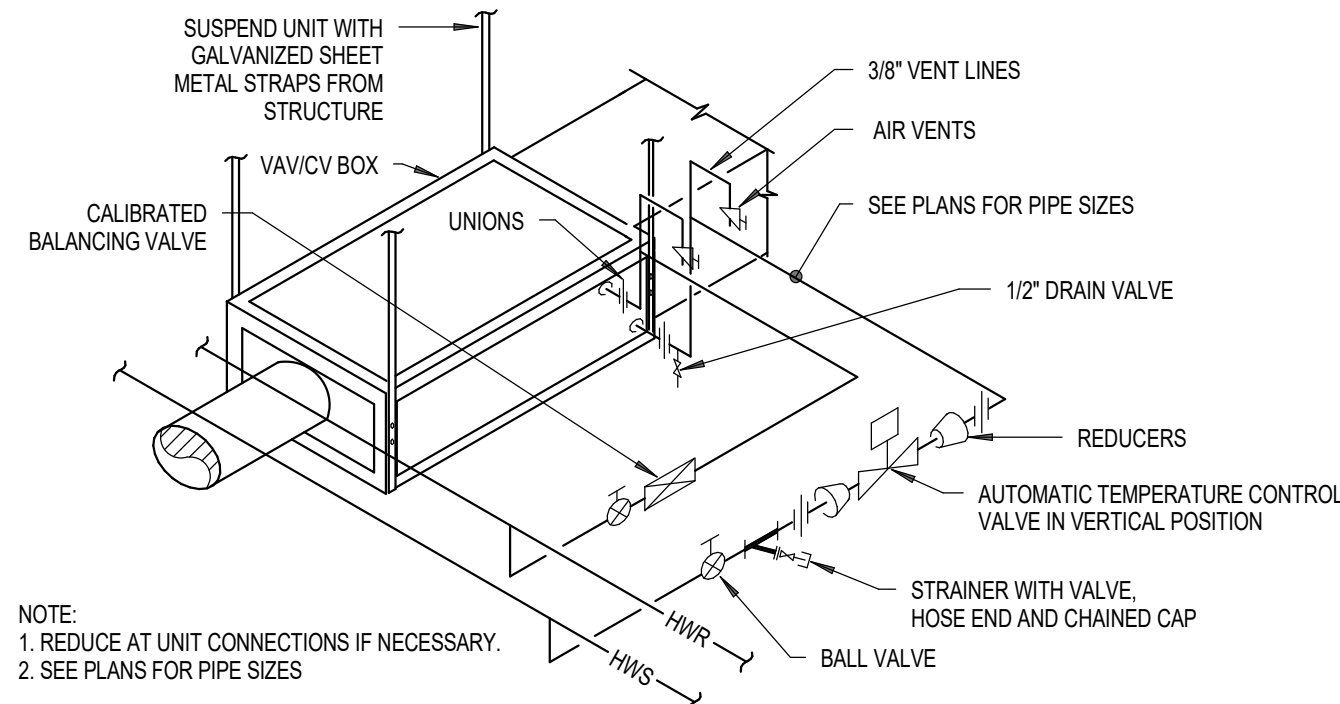


LEVEL 1 MECHANICAL PIPING PLAN
SCALE: 1/4" = 1'-0"

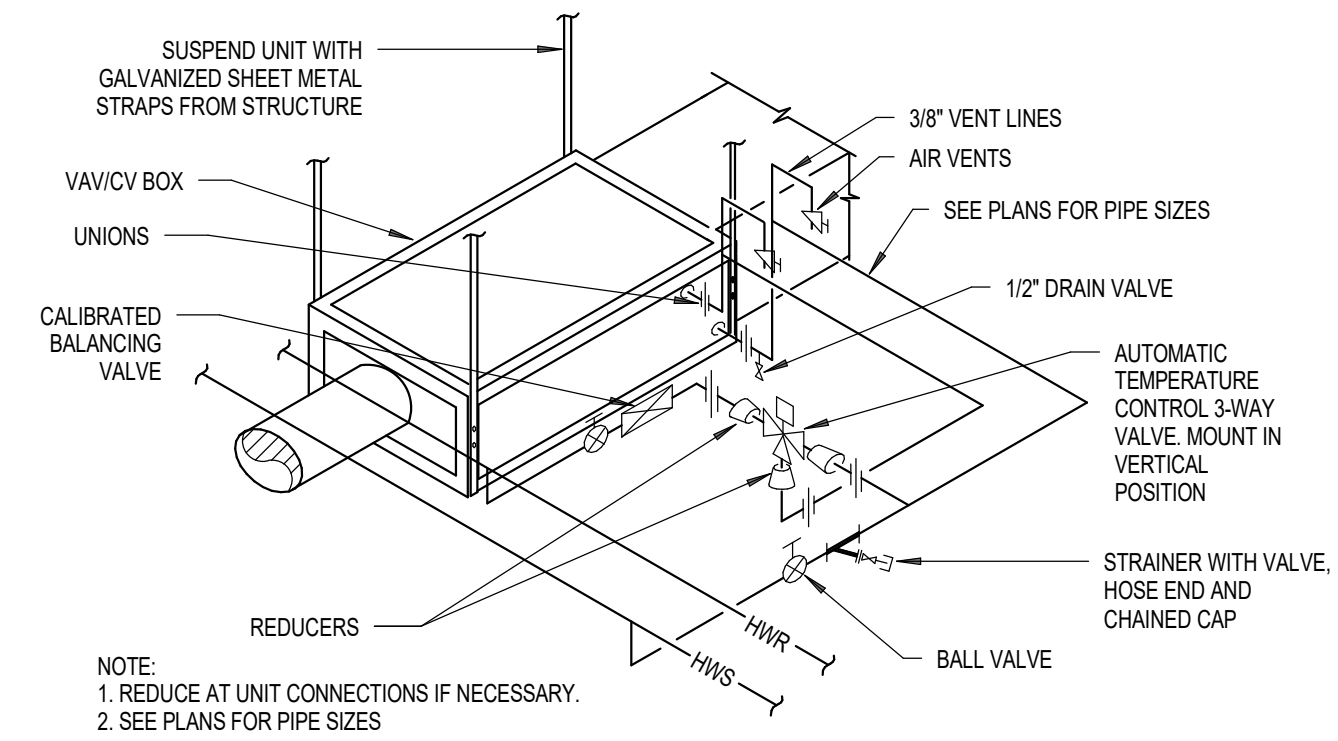


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INTERMOUNTAIN HEALTHCARE
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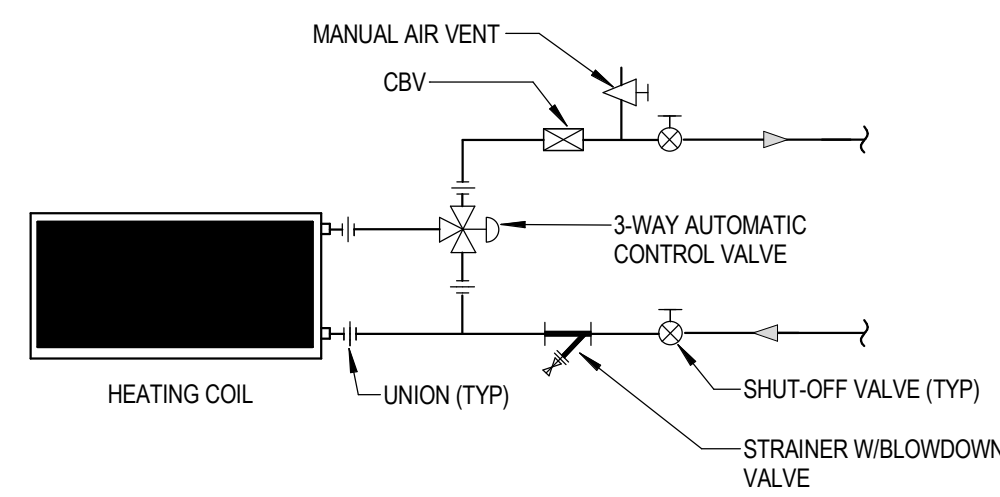
MECHANICAL PIPING PLAN



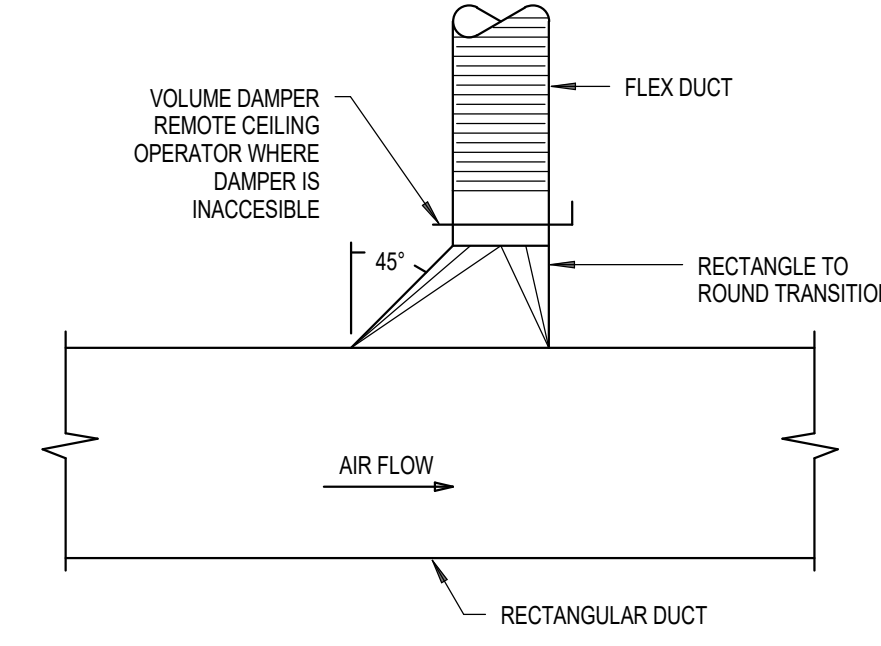
8 VAV/ CV BOX PIPING DETAIL WITH 2-WAY AUTO-VALVE



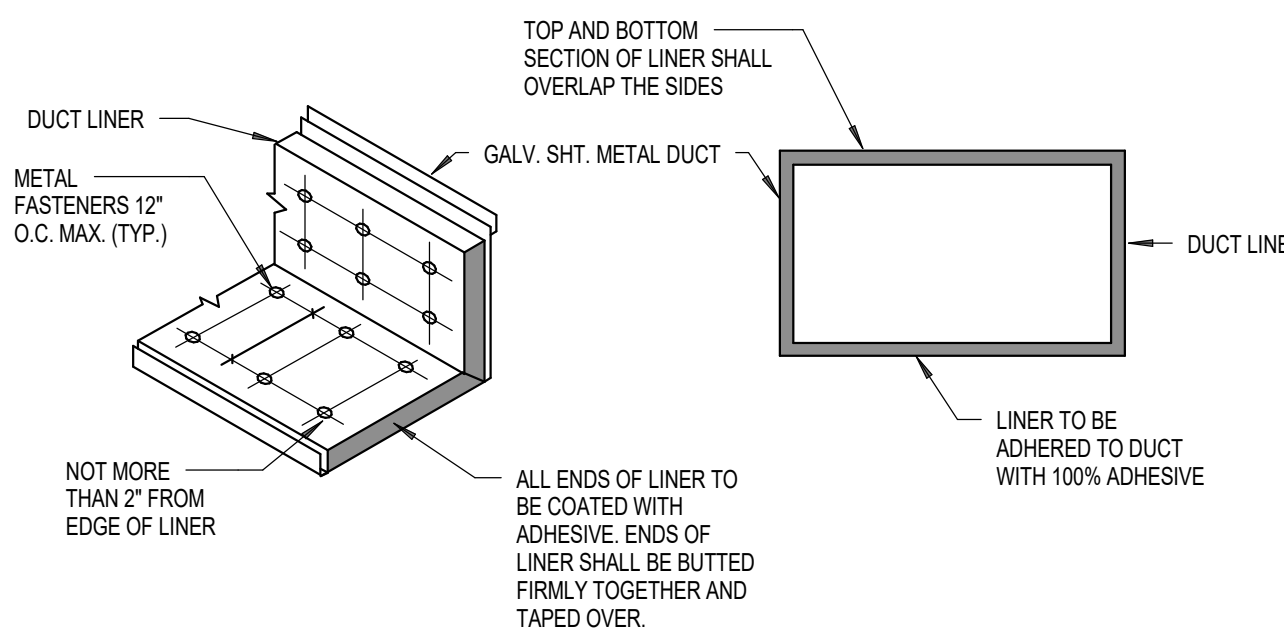
9 VAV/ CV BOX PIPING DETAIL WITH 3-WAY AUTO-VALVE



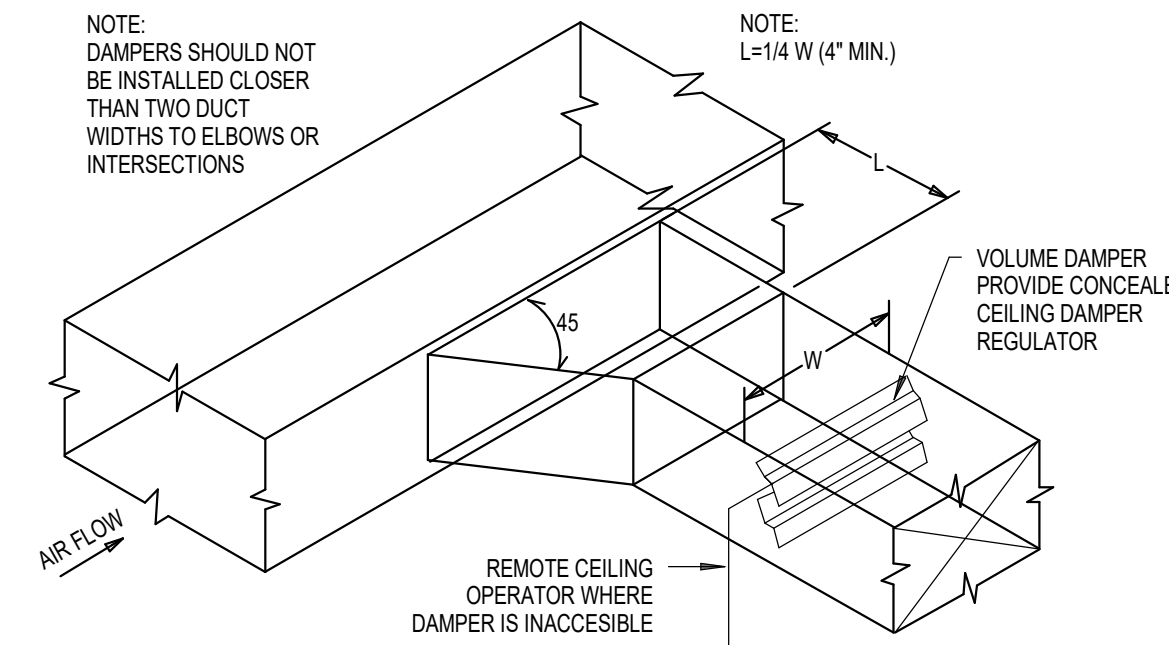
10 REHEAT COIL PIPING DETAIL WITH 3-WAY AUTO-VALVE



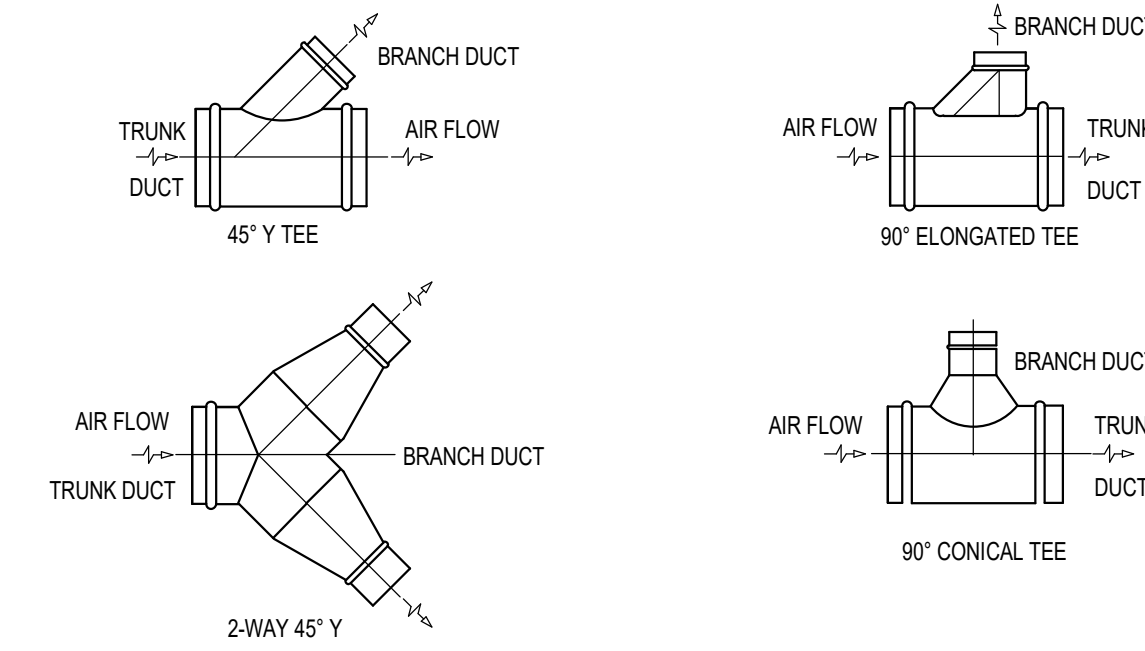
5 HIGH EFFICIENCY TAKE-OFF DETAIL



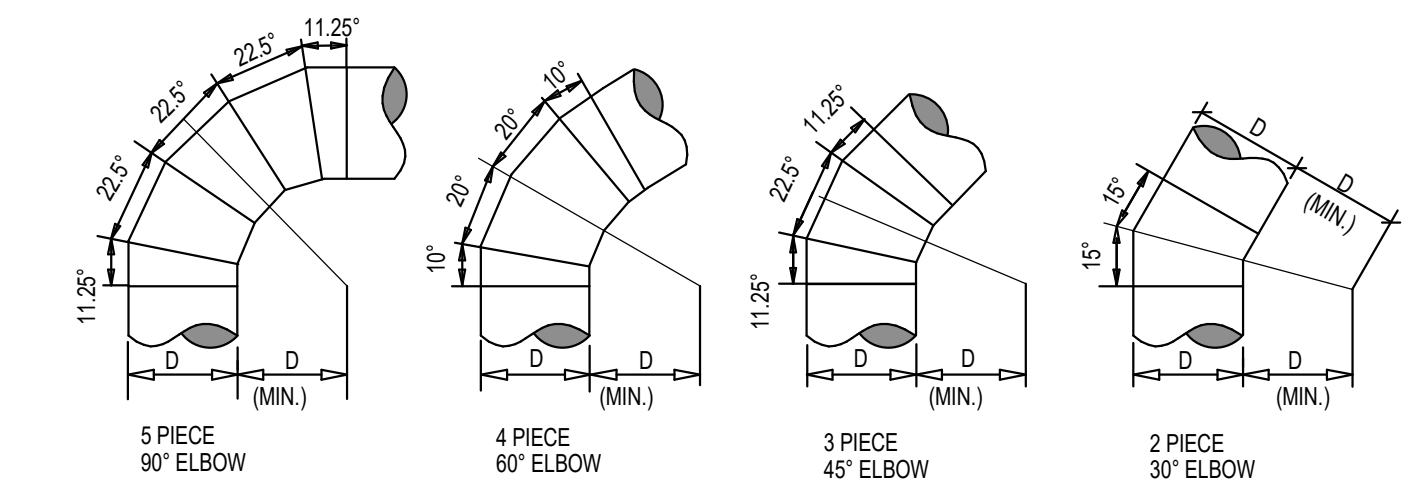
6 DUCT LINER DETAIL



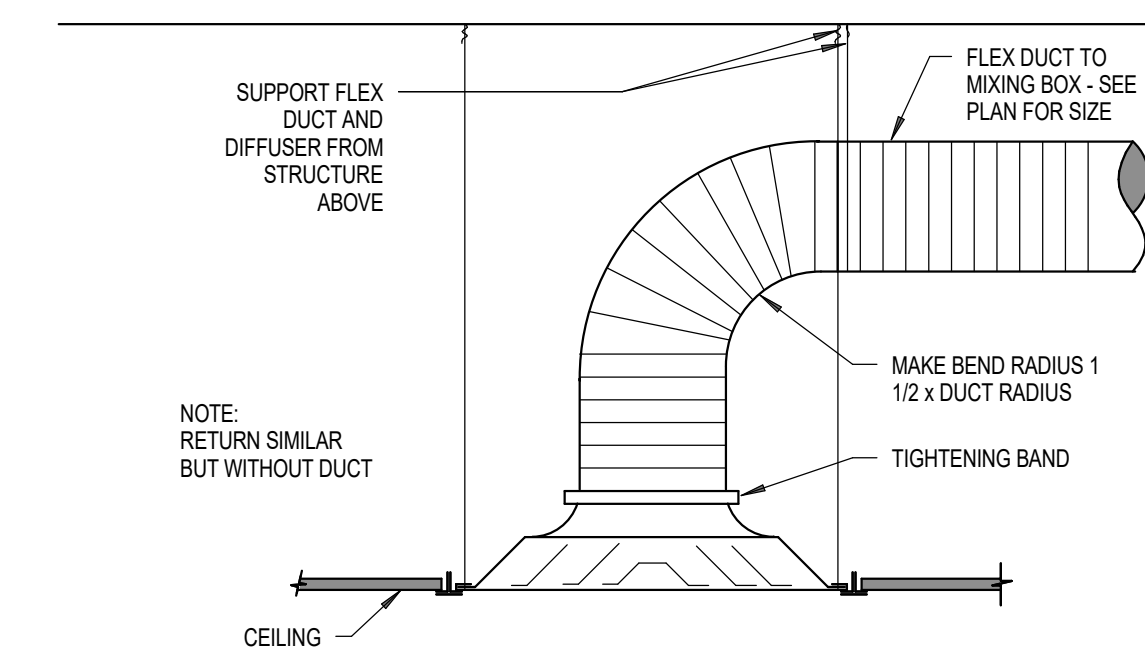
7 BRANCH DUCT TAKE-OFF & DAMPER DETAIL



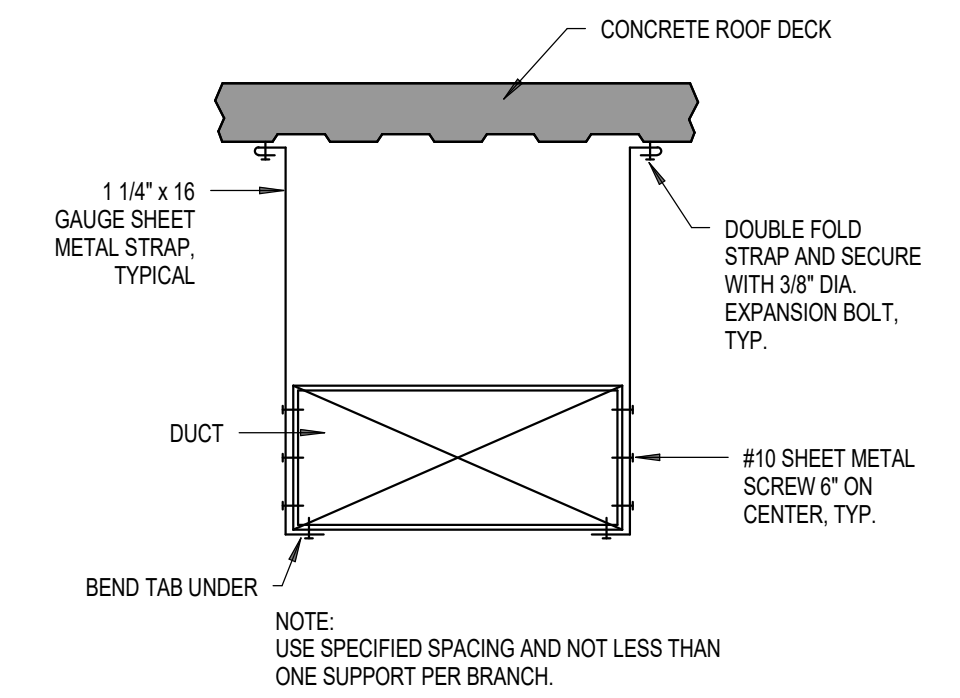
1 ROUND DUCT BRANCH TAKE-OFF DETAILS



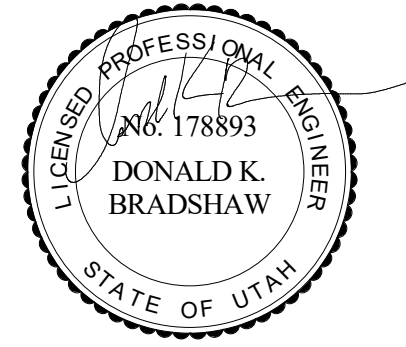
2 ROUND DUCT ELBOW DETAILS



3 DIFFUSER CONNECTION DETAIL



4 RECTANGULAR DUCT SUPPORT



FAN COIL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR		FAN		COIL 1	COIL 2	ELECTRICAL			PHYSICAL LENGTH/WIDTH/HEIGHT (IN)	NOTES
				MAXIMUM AIRFLOW RATE (CFM)	MINIMUM VENTILATION AIR (CFM)	EXTERNAL STATIC PRESSURE (IN. WATER)	STATIC EFFICIENCY (%)			FAN QUANTITY	MOTOR SIZE (HP)	VOLT/PH/Hz		
FCU-1	MULTIAQUA MHQWW-36-H-1	EQUIPMENT ROOM	WALL MOUNT	850	0	0.24	--	WATER	WATER	1	1/12	230/1/60	56/14/8	1
FCU-2	MULTIAQUA MHQWW-36-H-1	EQUIPMENT ROOM	WALL MOUNT	850	0	0.24	--	WATER	WATER	1	1/12	230/1/60	56/14/8	1

1. MOUNT FAN COIL UNIT HIGH ON WALL TO NOT OBSTRUCT EQUIPMENT.

FAN COIL, COIL SCHEDULE

ID	COIL #	USE TYPE	AIR				HYDRONIC				PHYSICAL MINIMUM NO. ROWS/ INCH	NOTES	
			AIRFLOW RATE (CFM)	LOAD (BTU/H)	SENSIBLE LOAD (BTU/H)	ENTERING TEMP. DB/WB (°F)	LEAVING TEMP. DB/WB (°F)	FLOW RATE (GPM)	ENTERING/LEAVING TEMP. (°F)	WORKING FLUID			HEAD LOSS (FT)
CC-1	1	COOLING	850	34975	34975	80	50	9.5	45/55	WATER	24.7	3/18	1
CC-2	2	COOLING	850	34975	34975	80	50	9.5	45/55	WATER	24.7	3/18	1

1. COIL CORRESPONDS TO FAN COIL UNIT WITH SAME ID.

GRILLES, REGISTERS AND DIFFUSERS

ID	MANUFACTURER	MODEL	DESCRIPTION	MOUNTING-FRAME: SURFACE OR LAY-IN, (CW CEILING TYPE.)
CD-1	EH PRICE	SPD	FACE STYLE: SQUARE PLAQUE DIFFUSER FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE APPLICATION: ENGINEERED VAV SYSTEMS MATERIAL: STEEL FINISH: B12 WHITE POWDERCOAT	PATTERN: 360° RADIAL HORIZONTAL AIR PATTERN DAMPER: OPPOSED BLADE MAX NC - 30 DAMPER: NONE REMOVABLE FACE
CD-2	EH PRICE	LFD	LAMINAR FLOW DIFFUSER AIR VELOCITY LESS THAN 90 FPM	LFD LAMINAR FLOW DIFFUSERS 12" X 24", 24" X 24", 24" X 36" AND 24" X 48" SURFACE MOUNT, STAINLESS STEEL SEE DRAWINGS FOR SYSTEM CONFIGURATION
RG-1	EH PRICE	PDDR	FACE STYLE: PERFORATED RETURN AIR UNIT FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. APPLICATION: AIR RETURN MATERIAL: STEEL FINISH: B12 WHITE POWDERCOAT	MOUNTING-FRAME: SURFACE OR LAY-IN, (CW CEILING TYPE.) DAMPER: NONE MAX NC - 30 REMOVABLE FACE & CORE
EG-1	EH PRICE	80	FACE STYLE: CRATE RETURN AIR UNIT FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE APPLICATION: PRESSURIZED AIR RETURN MATERIAL: ALUMINUM FINISH: B12 WHITE POWDERCOAT	MOUNTING-FRAME: SURFACE OR LAY-IN, (CW CEILING TYPE.) DAMPER: OPPOSED BLADE MAX NC - 30 REMOVABLE FACE & CORE
SWS-1	EH PRICE	520S	FACE STYLE: DOUBLE DEFLECTION HIGH SIDEWALL SUPPLY REGISTER APPLICATION: CONSTANT VOLUME BLADE ORIENTATION: VERTICAL FRONT WITH REAR HORIZONTAL ADJUSTABLE VANES, FRONT BLADES PARALLEL TO SHORT DIMENSION. MATERIAL: STEEL	FINISH: B12 WHITE POWDERCOAT FRAME: 1.25" BORDER MOUNTING: SURFACE PATTERN: ADJUSTIBLE DAMPER: NONE MAX NC - 30 CORE: REMOVABLE
SWR-1	EH PRICE	535 S	FACE STYLE: SIDE WALL RETURN AIR GRILLE ARRANGEMENT: STATIONARY HORIZONTAL BLADE ORIENTATION: 45 DEG DEFLECTION VANES SPACED AT 1/2 INCH CENTERS. FRONT BLADES PARALLEL TO SHORT DIMENSION. MATERIAL: STEEL FINISH: B12 WHITE POWDERCOAT	FRAME: 1.25 INCH FLAT / BORDER MOUNTING: SURFACE PATTERN: PERMANENT 45 DEGREE DEFLECTION DAMPER: OPPOSED BLADE MAX NC - 30 REMOVABLE FACE & CORE

FAN SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR		FAN			ELECTRICAL			PHYSICAL LENGTH/WIDTH/HEIGHT (IN)	NOTES		
				MAXIMUM AIRFLOW RATE (CFM)	STATIC PRESSURE (IN. H2O)	MAX AIR TEMP. (°F)	FAN SPEED (RPM)	FAN WHEEL DIA. (IN)	STATIC EFFICIENCY (%)	MOTOR SIZE (HP)	MOTOR BHP (HP)			MOTOR SPEED (RPM)	VOLT/PH/Hz
RF-1	FANTECH FG 12XL CENTRIFUGAL INLINE FAN	PROCEDURE ROOM	IN-LINE MIXED FLOW	590	0.75	74	2809	12	--	0.5	0.4	2809	120/1/60	16/16/7	1,2

1. ON EMERGENCY POWER
2. INSTALL IN-LINE WITH RETURN AIR DUCTWORK

VAV BOX SCHEDULE

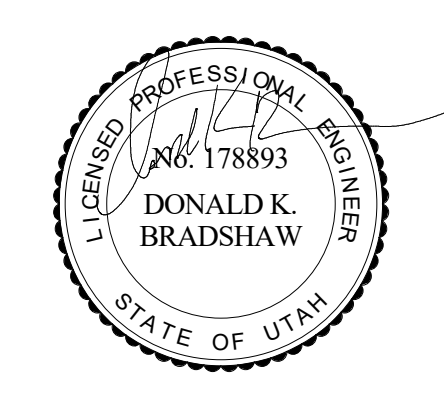
ID	MANUFACTURER AND MODEL NUMBER	INLET SIZE (IN)	AIR		MINIMUM AIR (3) (CFM)	ENTERING AIR TEMP. DB (DEG. F)	LEAVING AIR TEMP. DB (DEG. F)	S.P. LOSS AT MAX CFM (4) (IN H2O)	NC AT 1" H2O LOAD (MB) (GPM)	FLUID (2)		TOTAL FLUID FLOW (GPM)	ENT. FLUID TEMP. (DEG. F)	WORKING FLUID	MAX. FLUID PRESSURE DROP (FT)	MIN. COIL ROWS	PIPE SIZE (IN)	BALANCING VALVE SIZE (IN)	REMARKS
			COOLING MAXIMUM AIR (5) (CFM)	HEATING MAXIMUM AIR (CFM)						HEAT	TEMP								
V-1	TITUS-ESV-3	12	1160	696	325	55	95	0.65	26	39.7	2.5	130	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6	
V-2	TITUS-ESV-3	12	1250	--	325	--	--	--	--	--	--	--	--	--	--	--	--	--	1,5,6
V-3	TITUS-ESV-3	14	1845	1107	450	55	95	0.65	26	54.6	3	130	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6	

1. MAXIMUM DISCHARGE NC AT BOX DIFFERENTIAL PRESSURE BASED ON ARI STANDARD 880-89
2. COIL HEATING CAPACITY BASED ON HEATING MAXIMUM AIR FLOW (60% OF MAXIMUM COOLING CFM).
3. MINIMUM CFM IS LOWEST CONTROLLABLE CFM SETTING (BASED ON 400 FPM INLET VELOCITY).
4. MAXIMUM STATIC PRSSURE DROP PERMISSABLE ACROSS BOX AND COIL AT MAXIMUM COOLING CFM.
5. BOX COOLING MAXIMUM IS THE SUM OF DIFFUSERS CFM VALUES AS SHOWN IN THE DRAWINGS. BOX MINIMUM CFM TO BE SET AT 30% OF THIS MAXIMUM.
6. BOX HEATING CFM TO BE SET AT 60% OF THIS SAME MAXIMUM. TYPICAL UNLESS OTHERWISE NOTED.
7. PRESSURE INDEPENDENT TYPE BOX.

AIR CONTROL VALVE SCHEDULE

AREA SERVED	ID	MANUFACTURER AND MODEL NUMBER	SUPPLY				AIRFLOW DRIVING FACTOR	ENTERING AIR TEMP. DB (DEG. F)	MINIMUM LEAVING AIR TEMP. (DEG. F)	S.P. LOSS AT MAX CFM (IN H2O)	FLUID		COIL				GENERAL EXHAUST				NOTES					
			INLET DIA. (IN)	COOLING MAXIMUM AIRFLOW (CFM)	HEATING MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)					UNOCCUPIED MINIMUM AIRFLOW (CFM)	HEAT LOAD (MBH)	TOTAL FLUID FLOW (GPM)	ENTERING/LEAVING FLUID TEMP. (DEG. F)	WORKING FLUID	MAX. FLUID PRESSURE DROP (FT)	MIN. COIL ROWS	MIN. FINS (FPI)	COIL SIZE H x W (IN)	PIPE SIZE (IN)		INLET DIA. (IN)	MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)	UNOCCUPIED MINIMUM AIRFLOW (CFM)	S.P. LOSS AT MAX CFM (IN H2O)
CONTROL ROOM	SV-1	SIEMENS VENTURI VALVE V108LH	8	225	225	225	225	CONSTANT VOLUME	50	70	0.3	4.1	1.5	130/100	WATER	1	2	8	8X10	3/4	---	---	---	---	---	(1)(2)(3)
PROCEDURE ROOM	SV-2	SIEMENS VENTURI VALVE V214LH	12	1050	1050	1050	1050	CONSTANT VOLUME	50	70	0.3	19.3	2.5	130/100	WATER	1	2	8	18X14	3/4	---	---	---	---	---	(1)(2)(3)
	RV-1	SIEMENS VENTURI VALVE V112LH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	12	590	590	590	0.3	(1)(2)
	RV-2	SIEMENS VENTURI VALVE V112LH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	12	590	590	590	0.3	(1)(2)

(1) ALL CAPACITIES AT 4.226 FT ELEVATION.
(2) PRESSURE INDEPENDENT CONTROL VALVE. VALVE SHALL BE EQUIPPED WITH PRESSURE SWITCH. VALVE SHALL BE LOW PRESSURE VALVE WITH PRESSURE RANGE OF 0.3" W.C. - 3.0" W.C.
(3) COIL AIR PRESSURE DROP RATED AT HEATING AIRFLOW. SUBMITTAL SHALL INCLUDE AIR PRESSURE DROP AT MAXIMUM SPECIFIED AIRFLOW. AIR PRESSURE DROP NOT TO EXCEED 0.4" W.G.; WATER PRESSURE DROP NOT TO EXCEED 5 FT HD (EXCEPT WHERE NOTED OTHERWISE).



181 East 5600 South
Murray, Utah 84107
O: (801)530-3148
www.vbfa.com
VBFA Project #: 22034

Table with 3 columns: REV, DATE, DESCRIPTION. Includes project details like VCBO NUMBER: 22305, DATE: 05/31/2022.

PROJECT GENERAL NOTES

- 1. THE PROJECT GENERAL NOTES APPLY TO ALL DISCIPLINES.
2. REMOVE ALL UNUSED PIPING, DUCTWORK, EQUIPMENT, AND ACCESSORIES.
3. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN THE TENANT SPACE AND WITHIN CLOSE PROXIMITY TO THE TENANT SPACE.
4. THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVERS AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES, AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM.
5. WHERE FLOOR DRAINS OCCUR WITH THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK.
6. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, EQUIPMENT, CEILING, ARCHITECTURAL COMPONENTS, AND ANYTHING ELSE PERTAINING TO THE PROJECT TO PREVENT CONFLICTS.
7. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AND THOSE OF OTHER DISCIPLINES, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
8. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, AND INTERNATIONAL PLUMBING CODE.
9. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
10. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
11. COORDINATE INSTALLATION OF DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT WITH NEC CLEARANCES INCLUDING THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT, NO PIPING OR DUCTWORK TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S AND MCC'S. PROVIDE PANS IF REQUIRED UNDER PIPING.
12. FIRE SEAL AROUND DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CAULKING AND SEALING ALL PENETRATIONS IN FIRE AND SMOKE RATED PARTITIONS TO MAINTAIN RATINGS. REFER TO SPECIFICATION.
13. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
14. TRANSITION PIPING AND DUCTWORK SIZES TO MATCH THE SIZE OF EQUIPMENT CONNECTION.
15. REFER TO PLUMBING SERIES DRAWINGS FOR GAS PIPING.
16. ALL PIPE AND DUCT SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
17. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
18. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
19. MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS PROVIDED AND INSTALLED WITH CLEARANCES PER MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL MAINTAIN PROPER SERVICE SPACE FOR COIL PULLS, BAS DEVICES, MAINTENANCE ACCESS, ETC.
20. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILING.
21. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD, INCLUDING, BUT NOT LIMITED TO, OFFSETS AND TRANSITIONS. NEW DUCTWORK, PIPING AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURE, LIGHTS, REFLECTED CEILING PLANS, CABLE TRAY, ELECTRICAL, CONDUIT, PLUMBING, MECHANICAL AND FIRE PROTECTION PIPING, MEDICAL GASES, ALL OTHER TRADES AND ALL OTHER EXISTING CONDITIONS TO AVOID INTERFERENCE IN THE FIELD.
22. THE CONTRACTOR SHALL INFORM THE DESIGNER OF ANY PROPOSED DEVIATIONS FROM THE CONTRACT DOCUMENTS.
23. IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS, IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
24. DETAILS REFERENCE ALL SHEETS.
25. INSTALL ALL PIPING AND DUCTWORK WITHOUT FORCING OR SPRINGING.
26. ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY WASTE, ROOF DRAIN, CAMPUS CHILLED OR HOT WATER, AND ANY OTHER UTILITY SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
27. LOCATE VALVING, ACCESSORIES, AND EQUIPMENT IN ACCESSIBLE LOCATIONS, WHERE LOCATED ABOVE HARD CEILING PROVIDE AN ACCESS DOOR IN CEILING. MINIMUM ACCESS DOOR SIZE OF 24" X 24". COORDINATE EXACT LOCATION AND STYLE WITH ARCHITECT. EQUIPMENT SHALL BE LOCATED IN THE CEILING CAVITY SO IT CAN BE SAFELY SERVICED FROM SOMEONE STAND ON A LADDER PLACED BELOW THE CEILING ACCESS.
28. WHERE VALVING, ACCESSORIES, OR EQUIPMENT IS LOCATED IN A WALL, PROVIDE AN APPROPRIATELY SIZED ACCESS DOOR. COORDINATE ACCESS DOOR SIZE, LOCATION, AND STYLE WITH ARCHITECT.
29. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.

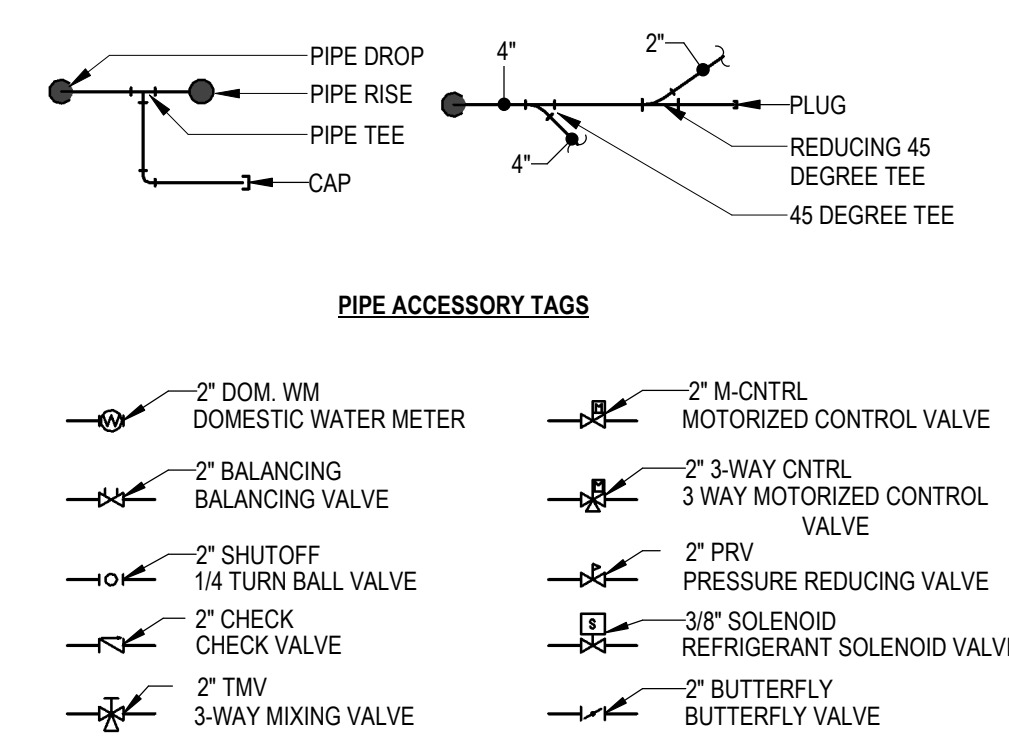
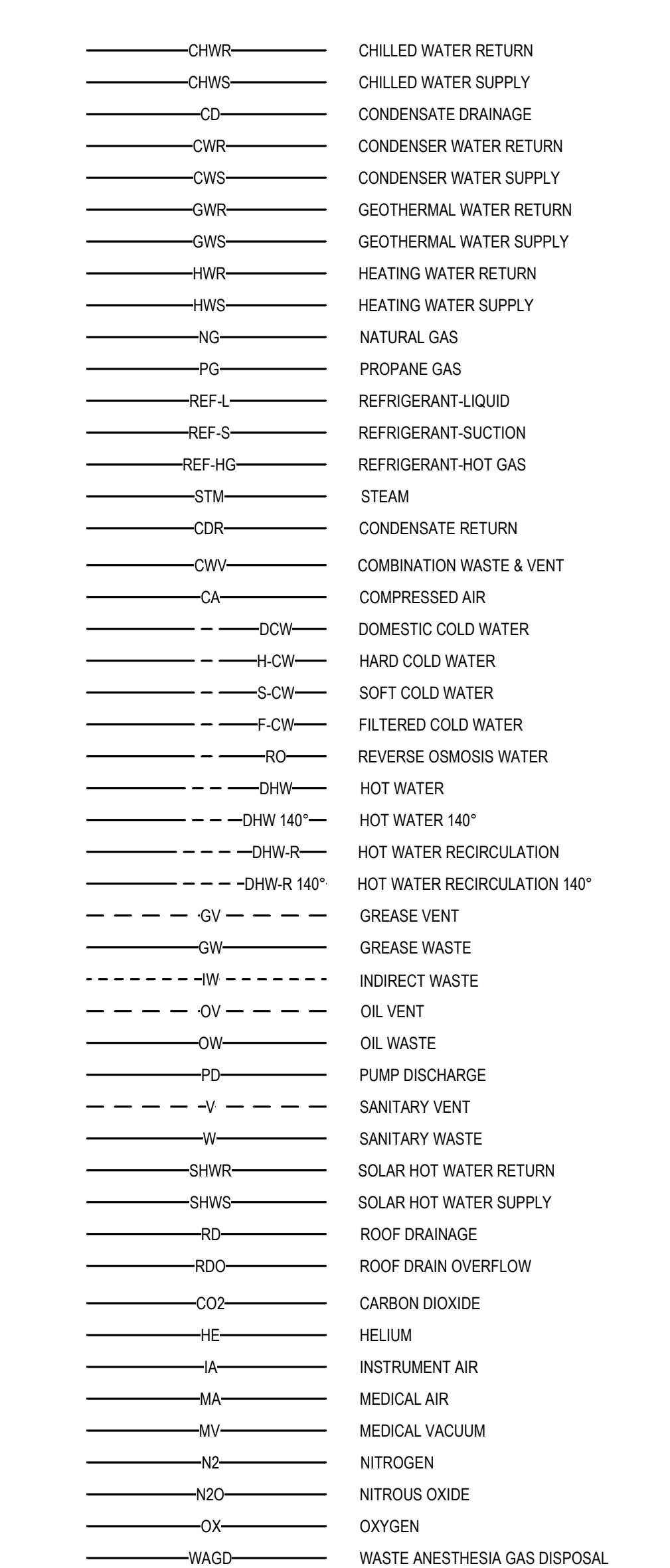
PLUMBING GENERAL NOTES

- 1. UNLESS OTHERWISE NOTED, SLOPE PIPE AS FOLLOWS: WASTE BRANCHES: 1/4" PER FOOT. WASTE MAINS: 1/4" PER FOOT, ROOF DRAIN/ROOF DRAIN OVERFLOW: 1/8" PER FOOT. VERIFY ALL SLOPING WITH LOCAL CODES.
2. ALL WORK DONE SHALL BE PERFORMED WITH WATER CONTROL IN MIND. CONTAINMENT OF WATER IS NECESSARY TO PREVENT WATER FROM DAMAGING AREAS ON FLOORS BELOW.
3. PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
4. ALL PIPING IN PLUMBING CHASES SHALL BE ARRANGED TO ALLOW MAINTENANCE ACCESS.
5. NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S OR MCC'S. PROTECT EQUIPMENT WITH A 42" DEEP ZONE IN FRONT OF PANELS, VFD'S, AND MCC'S.
6. COORDINATE FAN ROOM FLOOR DRAIN AND FLOOR SINK LOCATIONS WITH COOLING COIL, EVAPORATIVE SECTION, AND HEATING COIL LOCATIONS.
7. CONTRACTOR TO PROVIDE VALVE IDENTIFICATION AND LOCATION ON ALL CEILING TILES WHERE VALVES ARE LOCATED.
8. PIPING AND ROUTING SHOWN, INCLUDING ALL BELOW FLOOR DECK PIPING IS APPROXIMATE. IT IS UP TO THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE OF ALL PIPING.
9. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS AND OTHER REQUIREMENTS.
10. CONTRACTOR TO VERIFY CONNECTION SIDE OF ADA FIXTURES AND ADJUST ACCORDINGLY. INSTALL FLUSH VALVES HANDLES ON SIDE OF ALL FIXTURES.
11. LOCATE ALL VENTS MINIMUM 2' AWAY FROM AIR INTAKES.
12. INSTALL ALL DOMESTIC WATER LINES BELOW DUCTWORK.
13. INSTALL A 24" X 24" ACCESS DOOR BELOW ALL ISOLATION VALVES, BALANCING VALVES AND WATER HAMMER ARRESTORS WHERE MOUNTED ABOVE HARD CEILING.
14. MOUNT ALL ISOLATION VALVES, CONTROL VALVES, BALANCING VALVES, ETC. NEAR CEILING HEIGHT FOR ACCESSIBILITY.
15. INSTALL ALL EQUIPMENT WITH SUFFICIENT CLEARANCE FOR MAINTENANCE PER MANUFACTURERS RECOMMENDATION.
16. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL AND PROVIDE SLEEVES AS NECESSARY.
17. COORDINATE THE LOCATION OF THE FLOOR DRAIN, SHOWER DRAIN, OR FLOOR SINK WITH ARCHITECTURAL AND STRUCTURAL, TYPICAL.
18. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES OF WASTE, VENT AND DOMESTIC WATER TO/FROM SINGLE FIXTURE.
19. HOSE BIBBS SHOWN AT LAVATORIES ARE TO BE MOUNTED AT AN ACCESSIBLE LOCATION UNDER THE LAVATORY.
20. LOCATE CIRCUIT SETTERS, VALVES, WATER HAMMER ARRESTORS, ETC. IN ACCESSIBLE LOCATIONS. PROVIDE 24" X 24" ACCESS PANEL WHERE ITEM IS LOCATED ABOVE A HARD CEILING. PROVIDE APPROPRIATELY SIZED ACCESS DOORS TO ANY OF THESE ITEMS INSTALLED IN A WALL. COORDINATE ACCESS DOOR SIZE, LOCATION, AND STYLE WITH ARCHITECT.
21. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
22. FIELD VERIFY ALL NEW WATER, WASTE AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
23. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR TO BE 2" MINIMUM.
24. INSTALL CLEANOUTS IN DRAIN PIPING AS INDICATED, AND WHERE NOT INDICATED, ACCORDING TO THE FOLLOWING.
A. SIZE SAME AS DRAINAGE PIPING UP TO 4" NPS. USE 4" NPS FOR LARGER. DRAINAGE PIPING UNLESS LARGER CLEANOUT IS INDICATED.
B. LOCATE AT MINIMUM INTERVALS OF 50 FT FOR PIPING 4" NPS AND SMALLER AND 100 FT FOR LARGER PIPING.
C. LOCATE AT THE BASE OF EACH VERTICAL STACK.

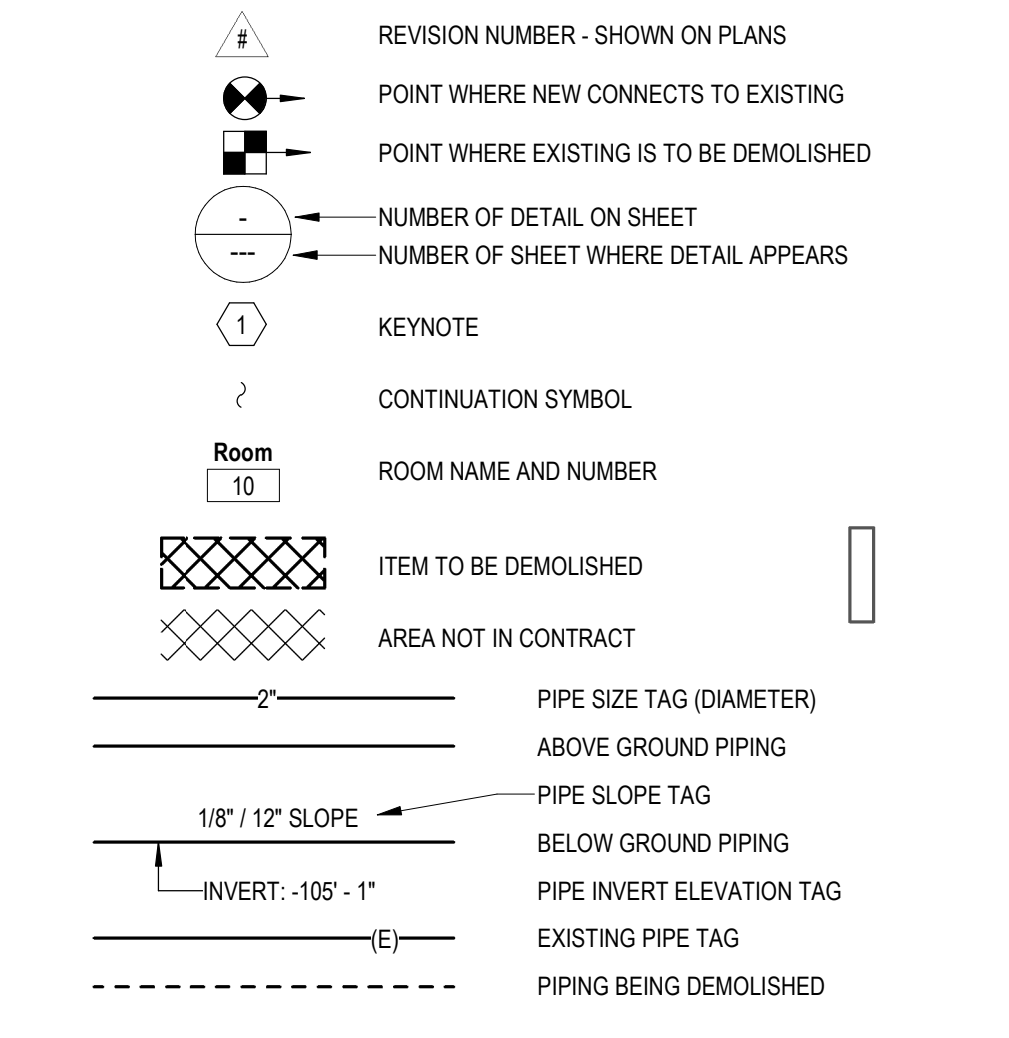
MEDICAL GAS GENERAL NOTES

- 1. MEDICAL GAS PIPING IS TO BE RUN ABOVE THE CEILING, UNLESS NOTED OTHERWISE.
2. MEDICAL GAS PIPING IS SCHEMATIC IN NATURE. FIELD VERIFY EXACT PIPE ROUTING AND COORDINATE WITH ALL OTHER TRADES.
3. MOUNT ALL SERVICE VALVES NEAR CEILING HEIGHT FOR ACCESSIBILITY.
4. ALL SERVICE VALVES SHALL BE LOCKABLE. PROVIDE FRANGIBLE LOCK FOR ALL SERVICE VALVES.
5. ALL ZONE VALVE BOXES REQUIRE SOURCE AIR FROM LEFT SIDE AND CONTROLLED AIR FROM RIGHT SIDE.

PLUMBING AND PIPING SYMBOLS



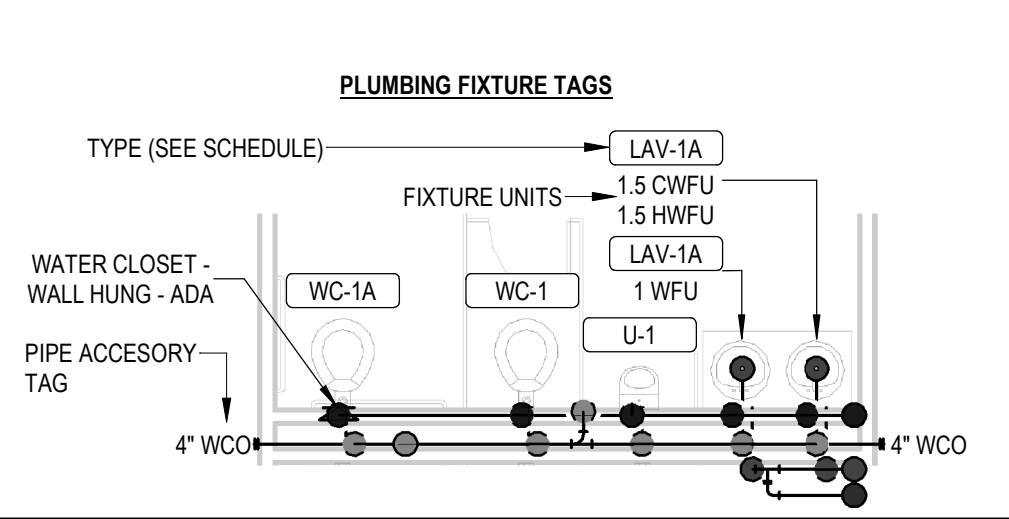
GENERAL MECHANICAL SYMBOLS



ABBREVIATIONS

Table of abbreviations for mechanical systems including LVR (Louver), LWT (Leaving Water Temperature), AC (Air Conditioning), etc.

PLUMBING AND PIPING SYMBOLS



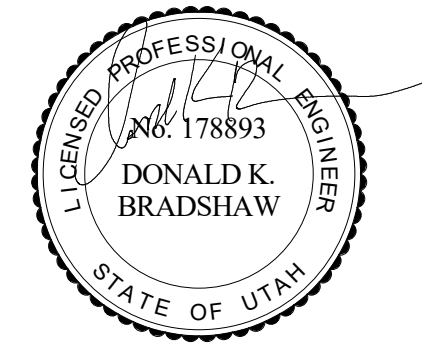
PLUMBING FIXTURE TAGS



DRAIN TAGS

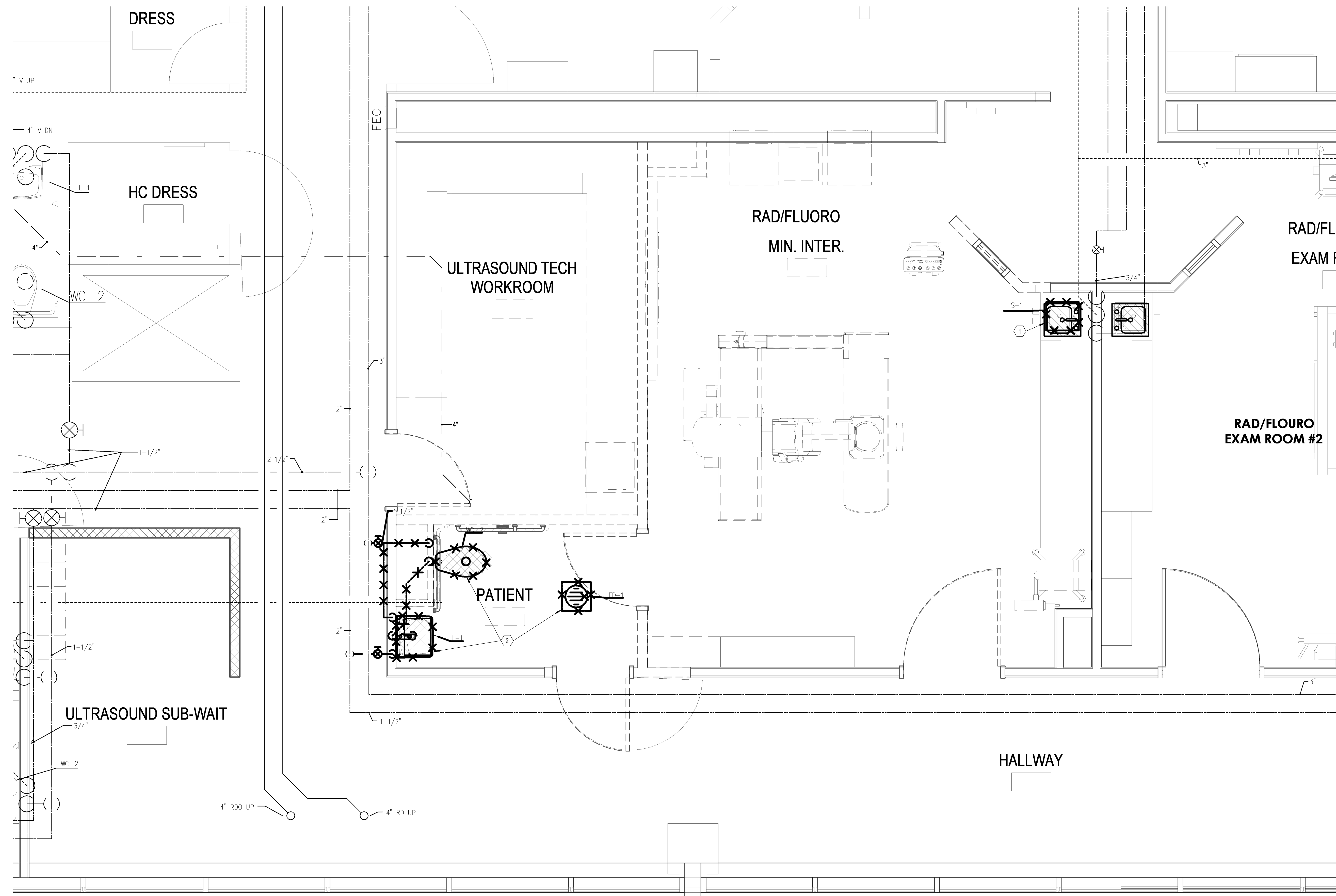


- KEYNOTES**
- 1 DEMOLISH SINK AND FAUCET, INCLUDING FOOT CONTROLS. EXISTING WATER, WASTE AND VENT TO REMAIN FOR FUTURE FIXTURE INSTALLATION.
 - 2 DEMOLISH PLUMBING FIXTURES, WATER, WASTE AND VENT PIPING SHOWN, CROSSED-OUT BACK TO MAINS AND CAP.



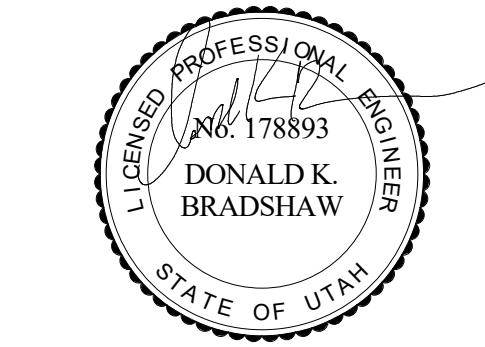
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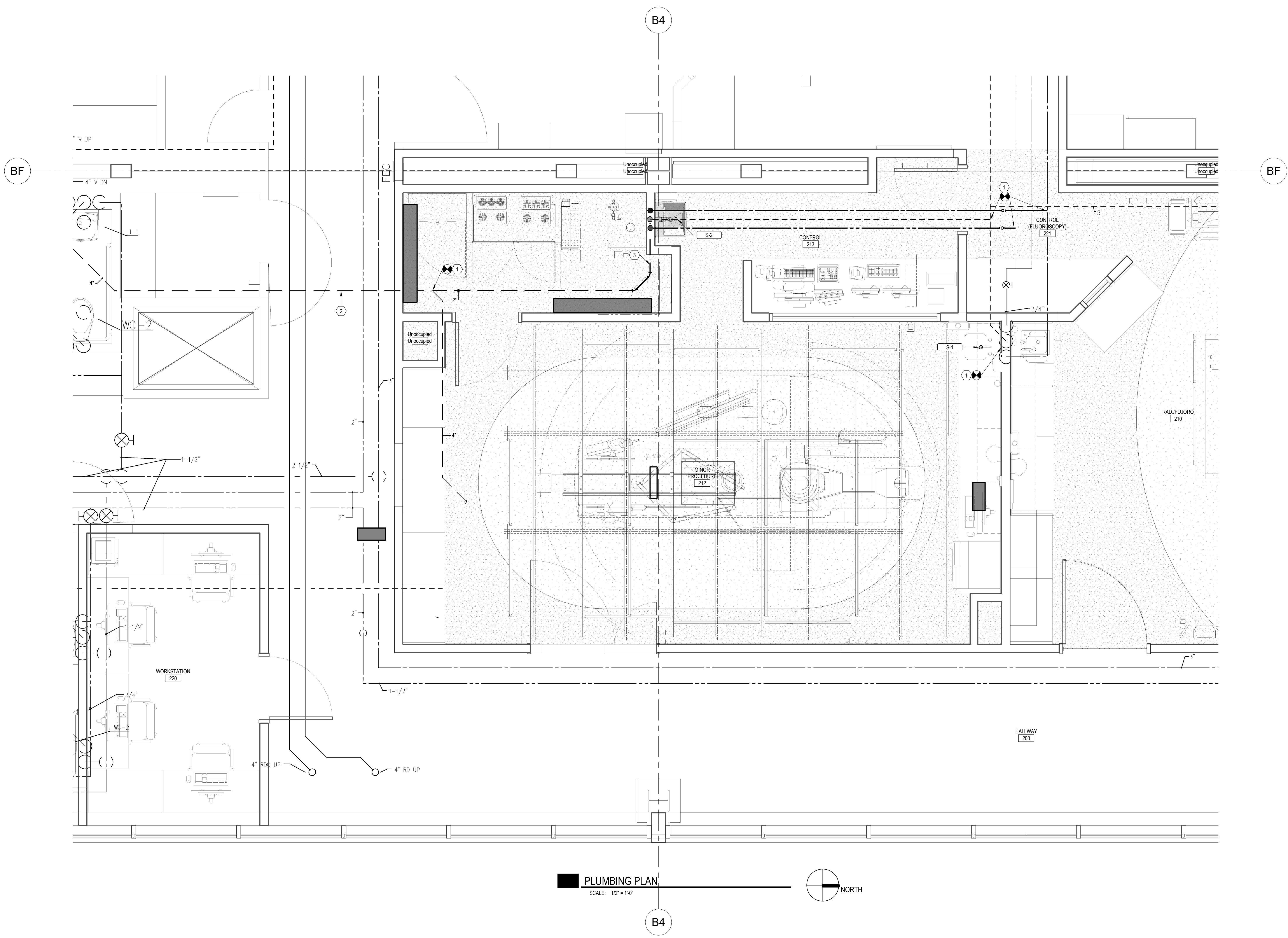
PLUMBING DEMOLITION PLAN
SCALE: 1/2" = 1'-0" NORTH

- KEYNOTES**
- 1 NEW CONNECTIONS TO EXISTING PLUMBING SYSTEMS.
 - 2 EXISTING WASTE LINE LOCATED IN CEILING SPACE OF LEVEL BELOW. FIELD COORDINATE EXACT LOCATION.
 - 3 EXTEND NEW WASTELINE THROUGH CEILING SPACE OF LEVEL BELOW. FIELD COORDINATE ROUTING.



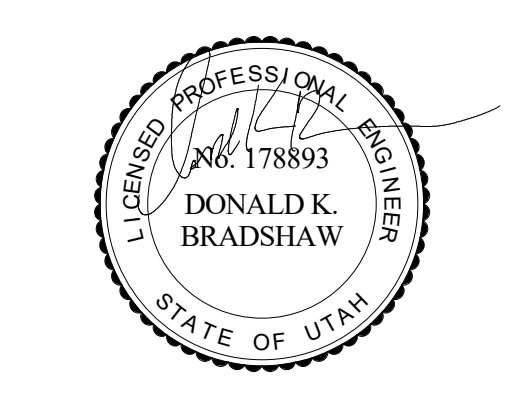
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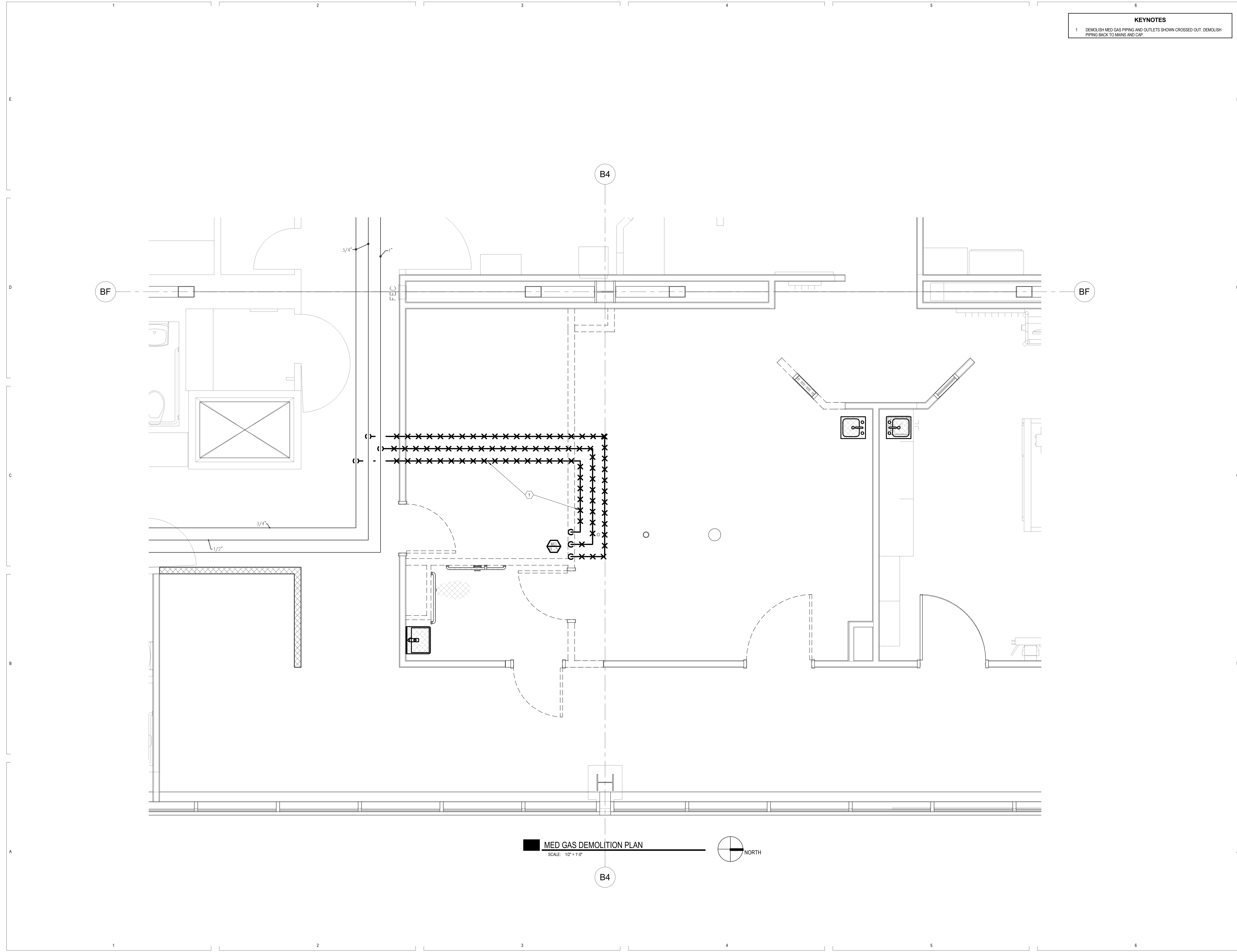
PLUMBING PLAN
SCALE: 1/2" = 1'-0"
NORTH

KEYNOTES
 1 DEMOLISH MED GAS PIPING AND OUTLETS SHOWN CROSSED OUT. DEMOLISH PIPING BACK TO MAINS AND CAP.



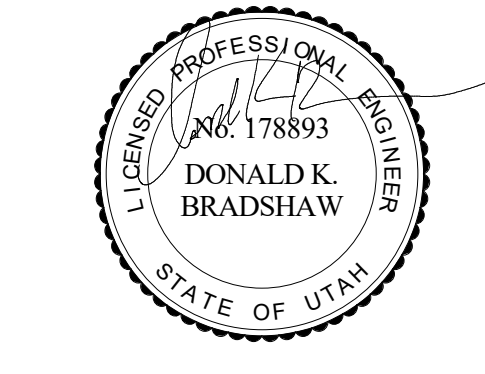
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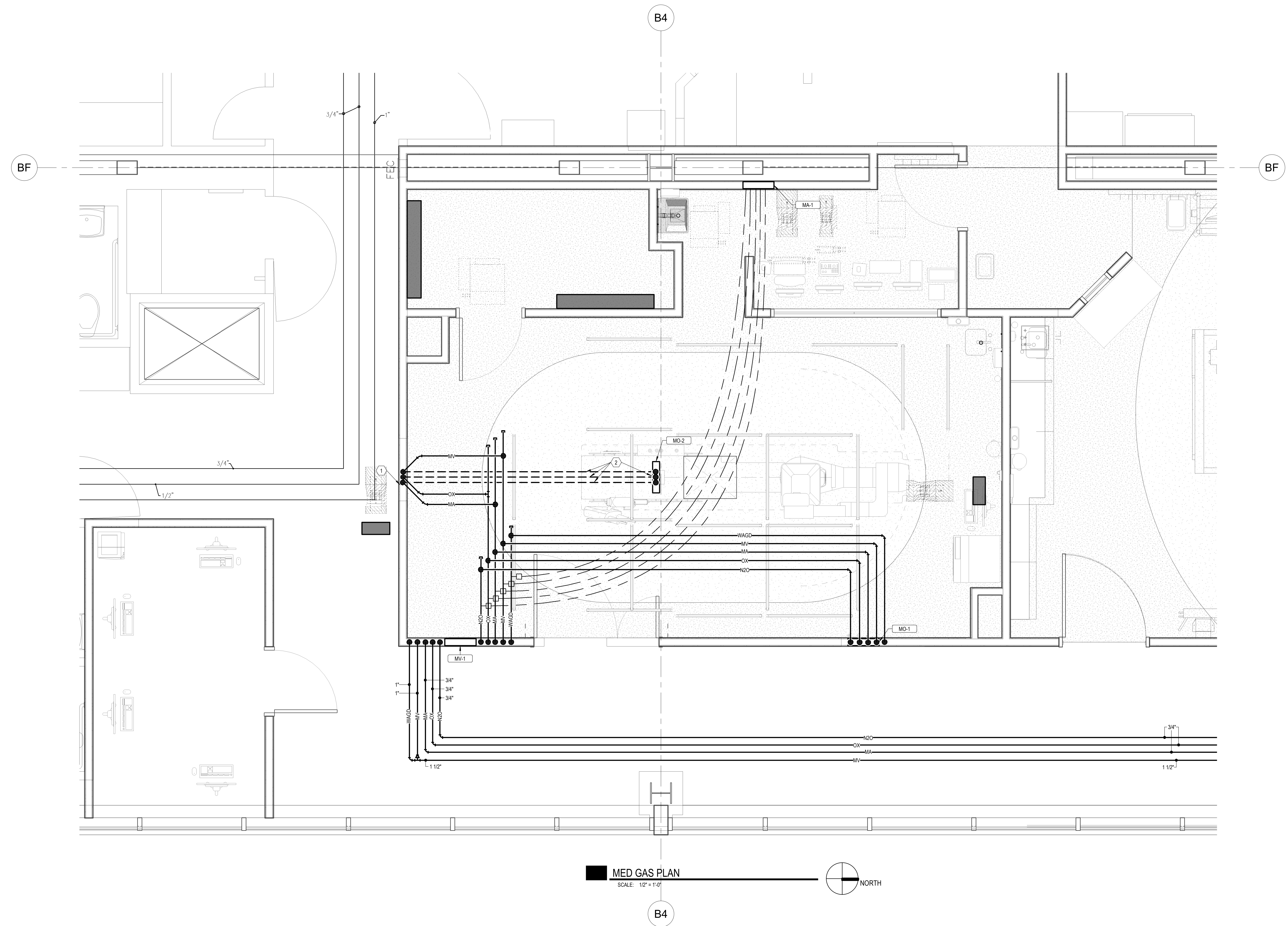
MED GAS DEMOLITION PLAN
 SCALE: 1/2" = 1'-0"
 NORTH

KEYNOTES
 1 DROP MED GASES SHOWN TO CEILING SPACE OF LEVEL BELOW THROUGH WALL.
 2 EXTEND MED GASES SHOWN THROUGH CEILING SPACE OF LEVEL BELOW AND RISE TO THIS LEVEL AT UTILITY PEDESTAL UNDER PATIENT TABLE.



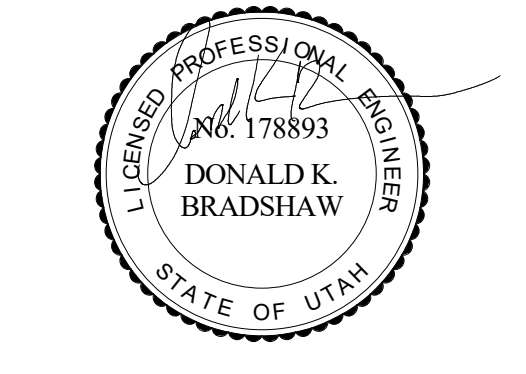
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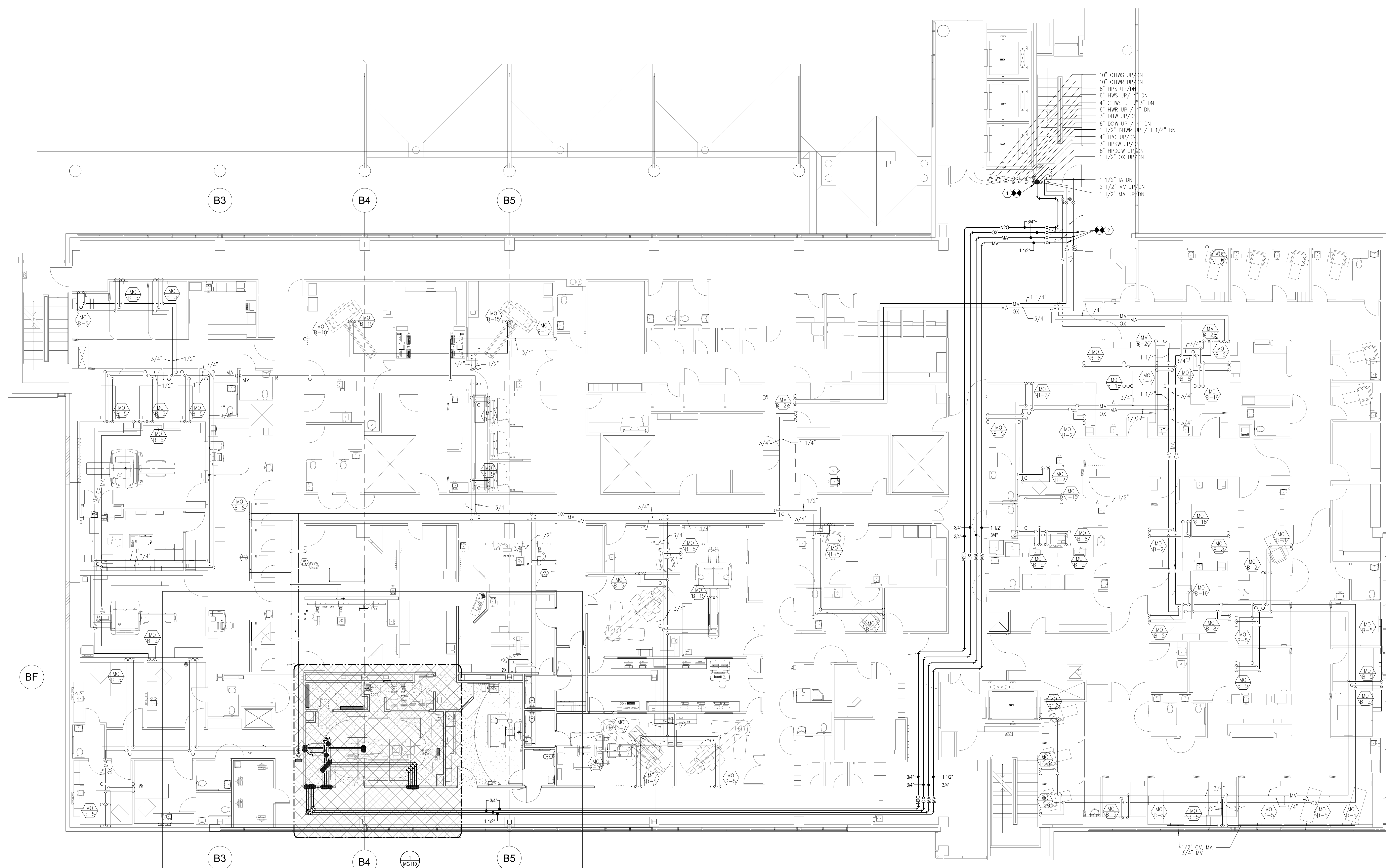
MED GAS PLAN
 SCALE: 1/2" = 1'-0"
 NORTH

- KEYNOTES**
- 1 DROP N2O PIPING TO LEVEL BELOW TO MAKE NEW CONNECTION TO EXISTING SYSTEM.
 - 2 NEW CONNECTIONS TO EXISTING MED GAS PIPING.

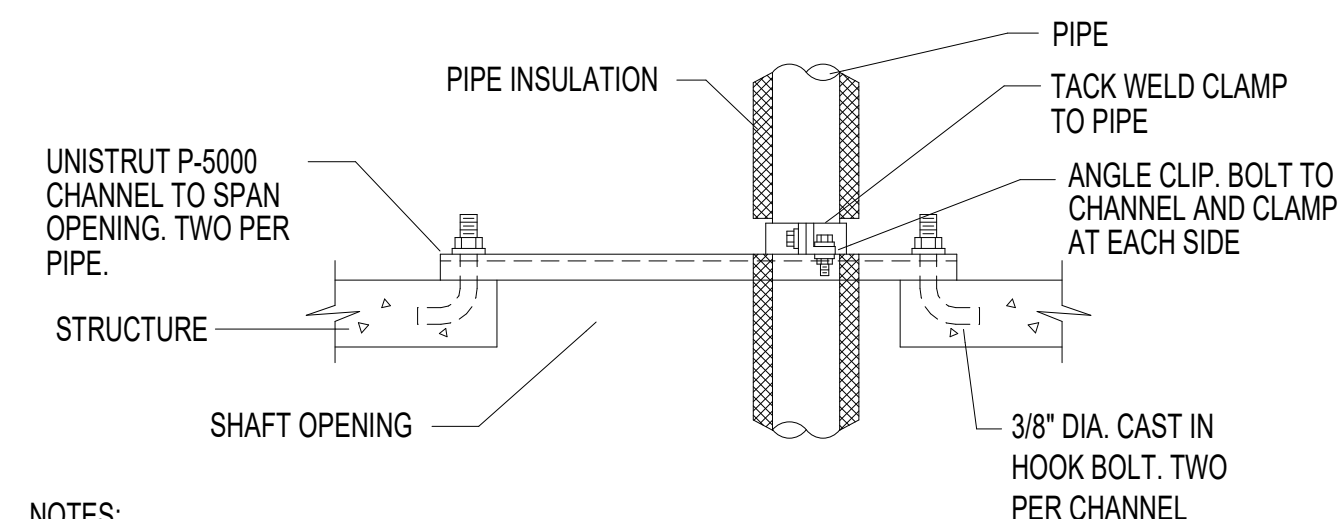


REV	DATE	DESCRIPTION

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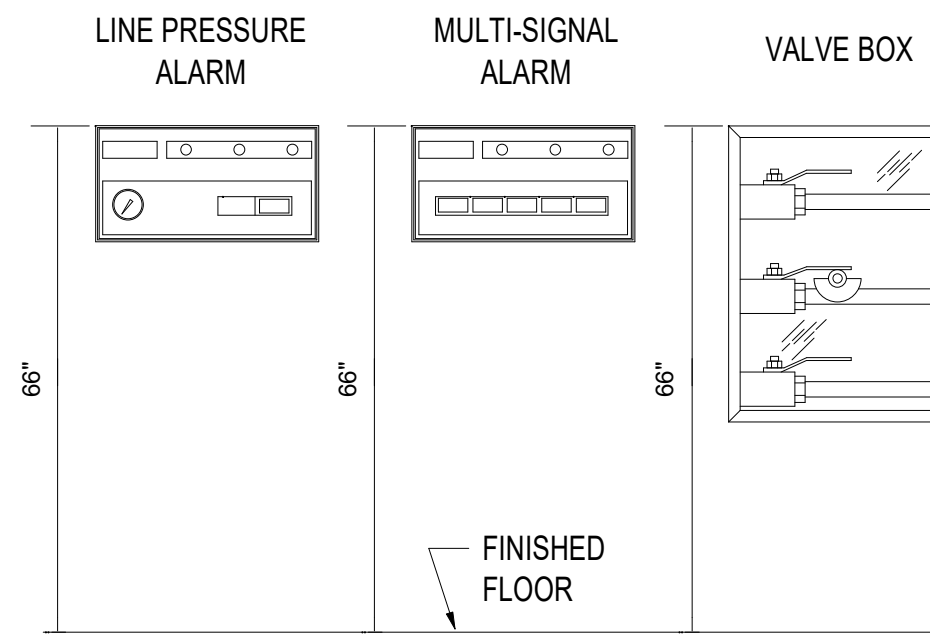
MED GAS PLAN
SCALE: 1/8" = 1'-0"
NORTH



NOTES:
 1. TYPICAL SUPPORT AT EACH FLOOR.
 2. FOR MULTIPLE PIPES INSTALL CHANNELS IN PARALLEL AND PROVIDE ADDITIONAL FRAMING SIZES OF FRAMING MEMBERS AS REQUIRED TO SUPPORT TOTAL WEIGHT OF PIPE.
 3. INSULATE CLAMP AT CHILLED WATER PIPE ONLY.

5 PIPE RISER SUPPORT DETAIL

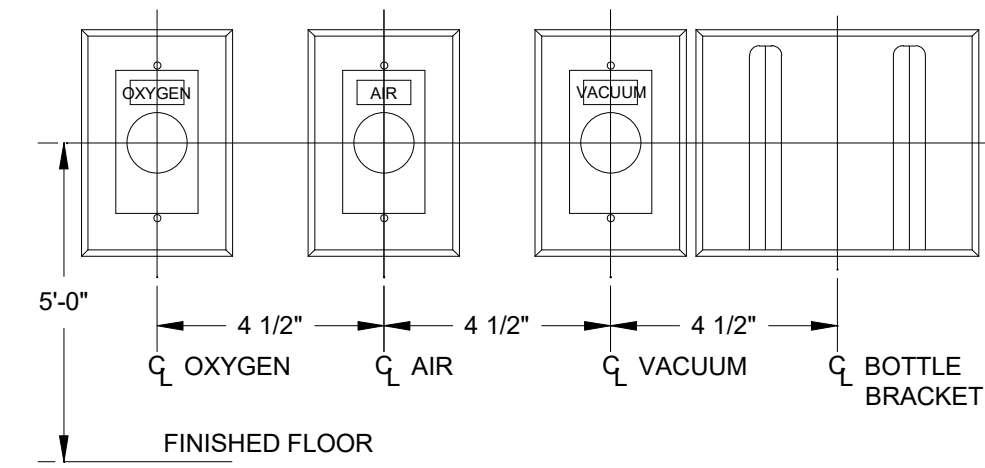
P501 NO SCALE



MOUNTING HEIGHTS UNLESS NOTED OTHERWISE

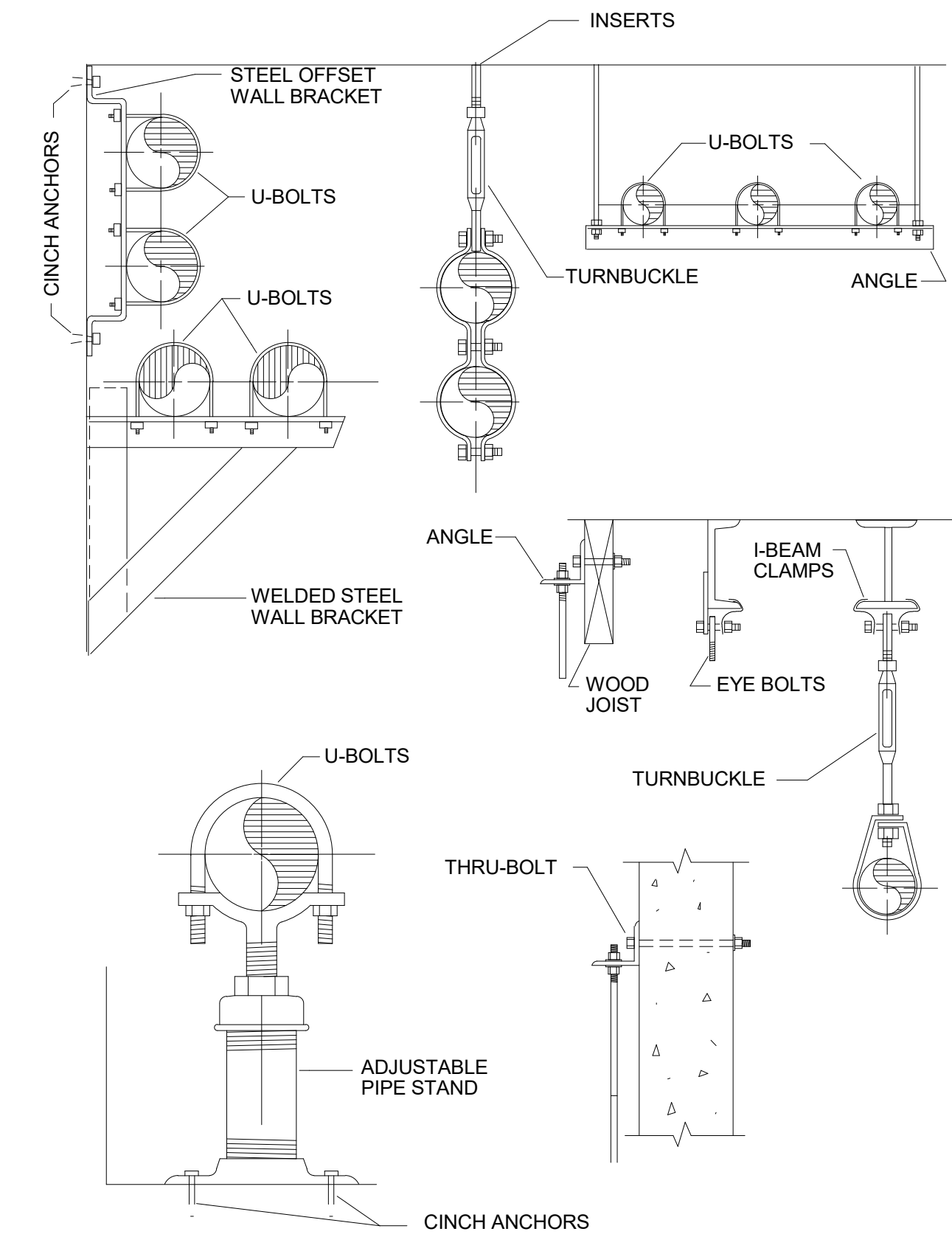
6 MEDICAL GAS MOUNTING HEIGHT DETAIL

P501 NO SCALE



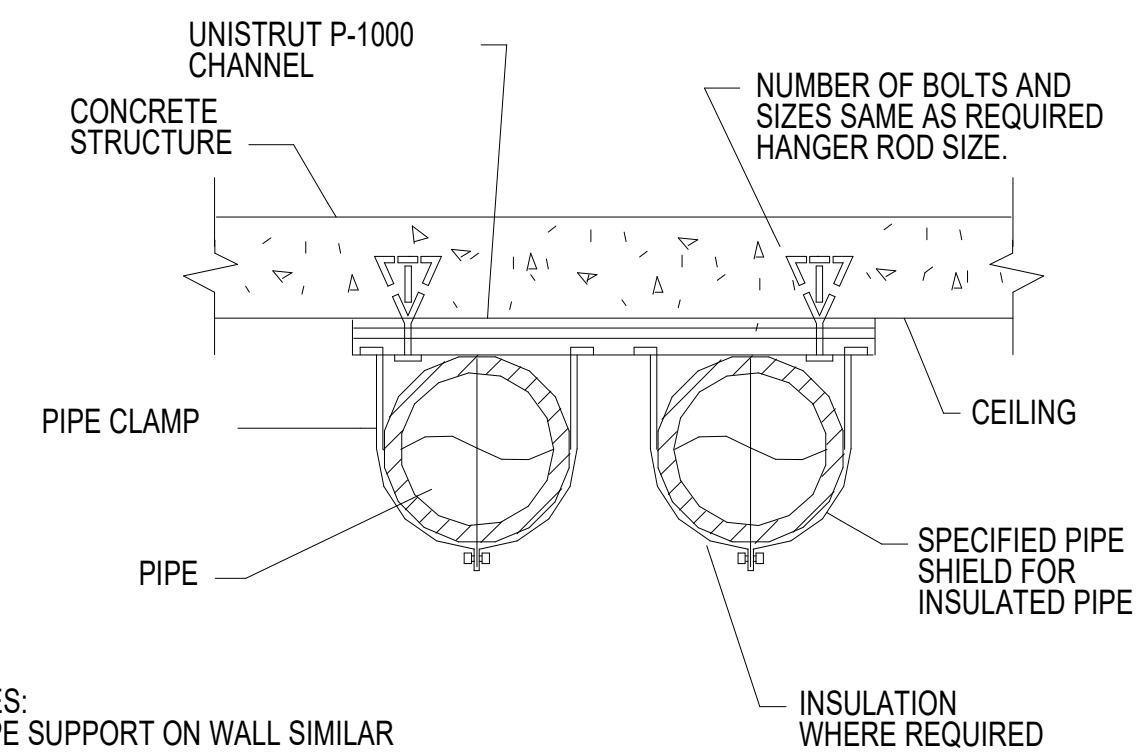
7 MEDICAL GAS OUTLET LOCATIONS

P501 NO SCALE



1 TYPICAL PIPE SUPPORT DETAIL

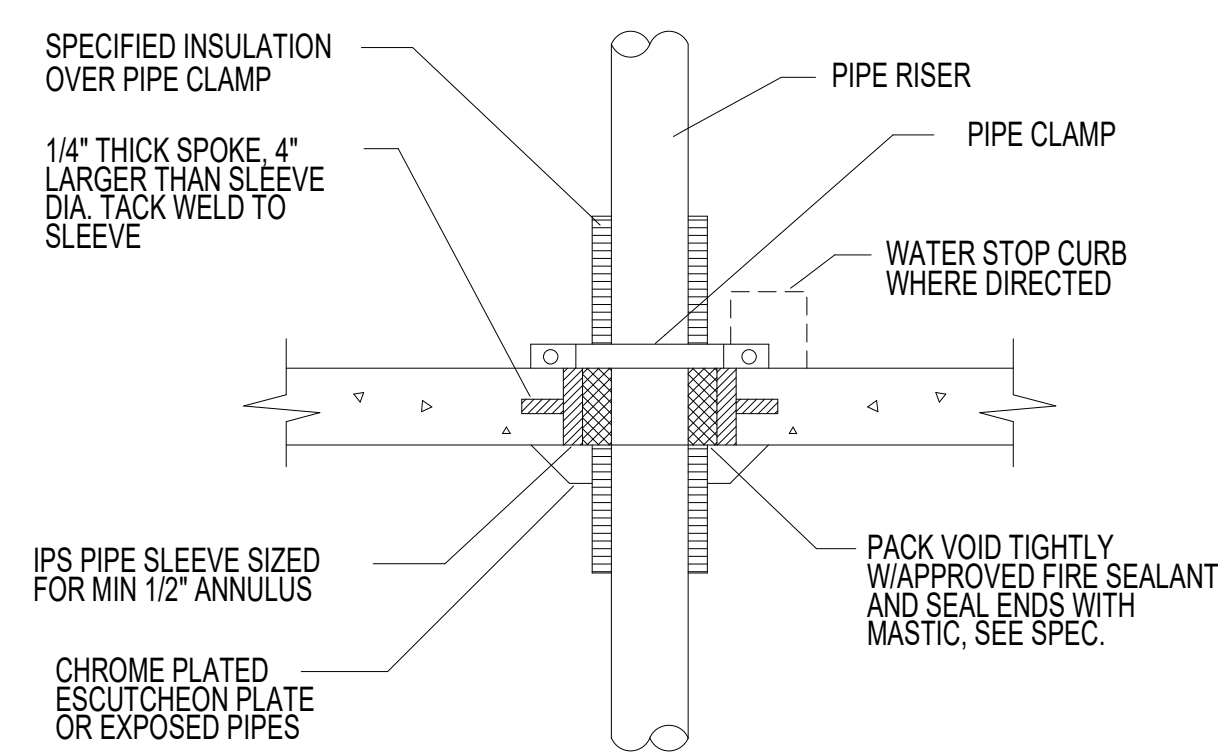
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NOTES:
 1. PIPE SUPPORT ON WALL SIMILAR

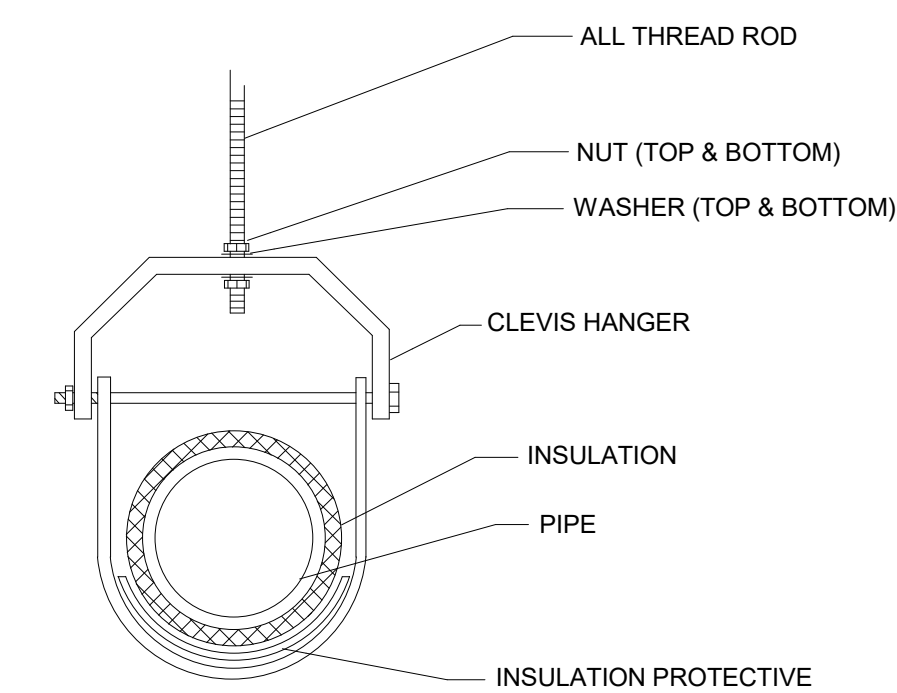
2 PIPE SUPPORT ON CEILING

P501 NO SCALE



3 PIPE THROUGH FLOOR SLAB DETAIL

P501 NO SCALE

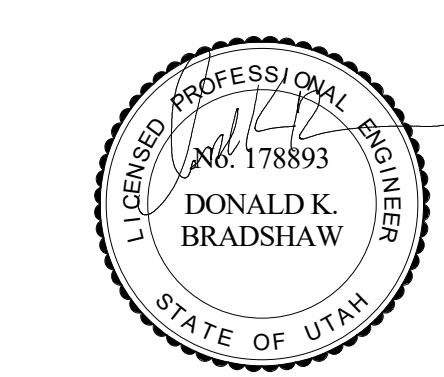


4 TYPICAL CLEVIS HANGER DETAIL

P501 NO SCALE

REV	DATE	DESCRIPTION

VCBO NUMBER: 22305
 DATE: 05/31/2022



PLUMBING FIXTURE SCHEDULE

ID	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	NOTES	SPECIFICATION
L-1	LAVATORY	1/2	1/2	1 1/2	1 1/2	WALL HUNG, GOOSENECK FAUCET	LAVATORY: KOHLER K2030, GREENWICH, 20" X 18", VITREOUS CHINA, WITH FRONT OVERFLOW, 4" CENTERS. CHICAGO 786-GN2FCXKABCP FACUET, WITH WRIST BLADE HANDLES, GN2 RIGID/SWING GOOSENECK SPOUT WITH 0.5 GPM LAMINAR FLOW CONTROL IN SPOUT INLET. WATTS LFUSC-BM2 THERMOSTATIC MIXING VALVE WITH SLOAN BASYS EFF-470-A SINGLE CHECKS IN HOT AND COLD SUPPLIES. FLEXIBLE STAINLESS STEEL SUPPLIES WITH WITH LOOSE KEY ANGLE STOPS. CHICAGO 327-XCP OPEN-GRID STRAINER AND CAST BRASS P-TRAP WITH CLEAN OUT PLUG. SMITH 0700-Z CONCEALED ARM CHAIR CARRIER WITH FOOT SUPPORT. PROVIDE ADA COMPLIANT UNDER COUNT...
S-1	SINK	1/2	1/2	2	1 1/2	INTEGRAL BASIN BY OTHERS, GOOSENECK FAUCET	SINK (BASIN INTEGRAL TO COUNTERTOP), CHICAGO 786-GN8FCXKABCP FACUET, WITH WRIST BLADE HANDLES, GN8FC 8" RIGID/SWING GOOSENECK SPOUT WITH 1.5 GPM LAMINAR FLOW CONTROL IN SPOUT. FLEXIBLE STAINLESS STEEL SUPPLIES WITH WITH LOOSE KEY ANGLE STOPS. FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS. CHICAGO 327-XCP OPEN-GRID STRAINER AND CAST BRASS P-TRAP WITH CLEAN OUT PLUG. PROVIDE ADA COMPLIANT UNDER COUNTER PIPING WRAP BY TRUE-BRO, COLOR TO BE WHITE.

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.

MEDICAL GAS OUTLETS SCHEDULE

SYMBOL	ROOM TYPE	# OF...				PIPE...						REMARKS
		OX	MA	MV	WAGD	N2O	OX	MA	MV	WAGD	N2O	
MO-1	MINOR PROCEDURE 212	1	1	1	1	1	1/2	1/2	3/4	3/4	1/2	1,2
MO-2	MINOR PROCEDURE 212	1	1	1			1/2	1/2	3/4			

UNLESS NOTED OTHERWISE, ALL OUTLETS ARE CHEMETRON-STYLE QUICK-CONNECTS
1. PIPE DROP SIZES ARE FOR ONE SET OF OUTLETS.
2. WALL MOUNTED OUTLETS.

MEDICAL GAS VALVE SCHEDULE

SYMBOL	AREA SERVED	PIPE SIZE						REMARKS
		OX	MA	MV	WAGD	N2O		
MV-1	MINOR PROCEDURE 212	3/4	3/4	1	1	3/4	1	

1. WITH GAUGES

MEDICAL GAS ALARM PANEL SCHEDULE

SYMBOL	STATIONS MONITORED	LOCATION	SERVICES TO BE MONITORED					REMARKS
			OX	MA	MV	WAGD	N2O	
MA-1	MV-1	CONTROL 213	X	X	X	X	X	1

1. COORDINATE EXACT LOCATION WITH ARCHITECTURAL

REV	DATE	DESCRIPTION

VCBO NUMBER: 22305
DATE: 05/31/2022

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
LIGHTING	
(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
(W-3)	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED. (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
EM	EMERGENCY.
NL	NIGHT LIGHT. DO NOT SWITCH.
↑	EGRESS DIRECTION ARROW (EXIT SIGNS).
⊗	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
⊗	EXIT SIGN: SINGLE FACE; WALL MOUNTED
⊗	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
⊗	EXIT SIGN: DOUBLE FACE; WALL MOUNTED
LIGHTING CONTROL	
※	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
※	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
⊕	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
Ⓟ	PHOTOCELL.
Ⓟ	PHOTOCELL, WALL MOUNTED.
※	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
※	VACANCY SENSOR, DUAL TECHNOLOGY, WALL.
⊗	CEILING FAN.
⊗	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
⊗	SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
⊗	DIMMER SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
⊗	DIMMER SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
a, b	LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER "a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS)
RC	DIGITAL LIGHTING ROOM CONTROLLER
DC	DIGITAL LIGHTING DIMMING CONTROLLER
LC	DIGITAL PLUG LOAD CONTROLLER
LS	LIGHTING NETWORK SWITCH.
NR	LIGHTING NETWORK ROUTER.
SM	LIGHTING NETWORK SEGMENT MANAGER
NB	LIGHTING NETWORK BRIDGE
ET	LIGHTING EMERGENCY TRANSFER DEVICE
X	LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE SCHEDULE, DIAGRAM.
TWO-WAY COMMUNICATIONS	
2WA	TWO-WAY COMMUNICATIONS MAIN CONTROL STATION (ANNUNCIATOR)
RCS	TWO-WAY COMMUNICATIONS REMOTE CALL STATION
▽	DATA CONNECTION: TWO-WAY EMERGENCY COMMUNICATION SYSTEM.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
FIRE ALARM	
FAA	FIRE ALARM ANNUNCIATOR PANEL.
FACP	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
FATC	FIRE ALARM TERMINAL CABINET; NAC, SLC, SPEAKER CIRCUITS, AMPLIFIERS, BATTERIES
HVAC	CONTROL PANEL FOR HVAC; SMOKE CONTROL, STAIR PRESSURIZATION.
EVAC	VOICE EVACUATION PANEL.
PRE	PRE-ACTION CONTROL PANEL.
MIC	REMOTE VOICE EVACUATION MICROPHONE.
FPC	FIRE PUMP CONTROLLER.
JPC	JOCKEY PUMP CONTROLLER.
C	AUTOMATIC DOOR CLOSERS: DOOR CLOSERS SHALL BE FURNISHED WITH DOOR HARDWARE AND CONNECTED BY FIRE ALARM INSTALLER.
CM	CONTROL MODULE.
MM	MONITOR MODULE.
F	FIRE ALARM MANUAL PULL STATION.
R	SHUT DOWN RELAY. INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
FS	WATER FLOW SWITCH. FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
VS	VALVE SUPERVISORY SWITCH, TAMPER SWITCH. TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
PS	PRESSURE SUPERVISORY SWITCH. PRESSURE SWITCHES SHALL BE PROVIDED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
Ⓜ	MAGNETIC DOOR HOLDER.
Ⓜ	DETECTOR, SMOKE.
H	DETECTOR, SMOKE, WALL MOUNTED.
A	DETECTOR, SMOKE WITH AUXILIARY CONTACT.
BR	DETECTOR, SMOKE, BEAM RECEIVER.
BT	DETECTOR, SMOKE, BEAM TRANSMITTER.
E	DETECTOR, SMOKE, ELEVATOR RECALL DESIGNATION.
G	DETECTOR, SMOKE WITH GUARD.
R	DETECTOR, SMOKE, RESIDENTIAL.
S	DETECTOR, SMOKE WITH STROBE.
RS	DETECTOR, SMOKE, RESIDENTIAL WITH SOUNDER BASE.
AS	DETECTOR, SMOKE, AIR SAMPLING SYSTEM PORT LOCATION.
?	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
SD	SMOKE DAMPER, 120V POWER FROM ELECTRICAL SYSTEM.
FSD	COMBINATION FIRE/SMOKE DAMPER, 120V POWER FROM ELECTRICAL SYSTEM.
RTS	REMOTE ALARM INDICATING AND TEST SWITCH.
I	DETECTOR, HEAT.
CO	DETECTOR, CARBON MONOXIDE.
⊗	STROBE, WALL MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
75	ALARM, HORN/SPEAKER, WALL MOUNTED, WEATHERPROOF.
WP	ALARM, HORN/STROBE, WALL MOUNTED, ONE ASSEMBLY.
75	ALARM, HORN/STROBE, WALL MOUNTED, ONE ASSEMBLY, SUBSCRIPT INDICATES CANDELA RATING.
C	ALARM, CHIME/STROBE, WALL MOUNTED, ONE ASSEMBLY.
G	ALARM, HORN/STROBE WITH GUARD, WALL MOUNTED, ONE ASSEMBLY.
M	ALARM, MINI HORN/STROBE, WALL MOUNTED, ONE ASSEMBLY.
⊗	SPEAKER, WALL MOUNTED, EVACUATION.
⊗	SPEAKER, WALL MOUNTED, EVACUATION, COMBINATION STROBE.
75	SPEAKER, WALL MOUNTED, EVACUATION, COMBINATION STROBE. SUBSCRIPT INDICATES CANDELA RATING.
75	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED, SUBSCRIPT INDICATES CANDELA RATING.
75	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
75	SPEAKER/STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
⊗	SPEAKER, CEILING MOUNTED.
75	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
Ⓜ	BELL, ELECTRIC, 120V FROM ELECTRICAL SYSTEM OR 24V FROM FIRE ALARM SYSTEM

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
CLOCK	
Ⓜ	CLOCK.
Ⓜ	CLOCK, SURFACE WITH WIRE GUARD.
NURSE CALL	
Ⓜ	JUNCTION BOX.
Ⓜ	CORRIDOR LIGHT.
B	BATHROOM PULL CORD STATION.
D	DUTY STATION.
E	EMERGENCY ASSISTANCE CALL STATION.
E CB	EMERGENCY ASSISTANCE CODE BLUE CALL STATION.
P	PATIENT STATION.
S	STAFF STATION.
NCM	TOUCH SCREEN NURSE CALL MASTER STATION.
ZLC	ZONE LIGHT CONTROLLER.
CU	NURSE CALL AREA CONTROL UNIT & POWER SUPPLIES.
CCTV	
P	CCTV CABLE, POWER.
V	CCTV CABLE, VIDEO SIGNAL.
CCTV	CCTV HEADEND EQUIPMENT.
M	CCTV MONITOR.
Ⓜ	CCTV CAMERA/ENCLOSURE WITH LENS, TYPICAL. SEE SCHEDULE.
PTZ	CCTV CAMERA WITH PAN, TILT AND ZOOM.
360°	PANNING CAMERA TRANSVERSE ANGLE.
SECURITY	
X	SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.
ACC	ACCESS CONTROL HEADEND EQUIPMENT.
CTR	SECURITY CONTROL PANEL.
SEC	INTRUSION DETECTION HEADEND EQUIPMENT.
#1	CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.
CR	CARD READER.
KCR	KEYPAD/CARD READER COMBINATION.
Ⓜ	DOOR SWITCH, BALANCED MAGNETIC CONTROL.
ER	EXIT REQUEST.
RL	REMOTE DOOR RELEASE BUTTON.
Ⓜ	BELL.
Ⓜ	BUZZER.
Ⓜ	BUZZER, COMBINATION BELL.
Ⓜ	SENSOR, BURIED VEHICULAR.
Ⓜ	SENSOR, GLASS BREAK.
Ⓜ	SENSOR, VOLUMETRIC.
CA	CONTROLLED ACCESS POINT.
IC	INTERCOM STATION.
RU	DUAL TECHNOLOGY PASSIVE INFRARED SENSOR AND ULTRASONIC MOTION DETECTOR.
IR	PASSIVE INFRARED SENSOR.
P	PANIC DURESS SWITCH.
U	ULTRASONIC MOTION DETECTOR.
AP	ANNUNCIATOR PANEL.
MSI	MASTER STATION, INTERCOM.
TV DISTRIBUTION	
T	TV DISTRIBUTION CABLE, INDIVIDUAL DROPS.
TR	TV DISTRIBUTION CABLE, TRUNK.
CMB	COMBINER.
DC	DIRECTIONAL COUPLER.
DA	DISTRIBUTION AMPLIFIER (ONE-LINE DIAGRAM).
SPL	SPLITTER (ONE-LINE DIAGRAM).
Ⓜ	TV OUTLET.
Ⓜ	SATELLITE ANTENNA.
Ⓜ	TV ANTENNA (ONE-LINE DIAGRAM).
-W-	TERMINATOR, 75 OHM (TV DISTRIBUTION).

CABLE/OUTLET COLOR SCHEDULE	
COLOR	TYPE
BLUE	DATA
BLUE	IP SECURITY CAMERAS
YELLOW	WIRELESS

STATION PATCH CORD SCHEDULE (CATEGORY 6A F/UTP CABLES W/RJ-45 CONNECTORS)			
LENGTH (FEET)	COLOR	QUANTITY	UNIT COST (EACH)
7'	BLUE	40% OF TOTAL PORTS IN TDR'S	
10'	BLUE	40% OF TOTAL PORTS IN TDR'S	
15'	BLUE	20% OF TOTAL PORTS IN TDR'S	

WIRELESS PATCH CORD PATCH CORD SCHEDULE (CATEGORY 6A F/UTP W RJ/45 CONNECTORS)			
LENGTH (METER)	COLOR	QUANTITY	UNIT COST (EACH)
7'	YELLOW	100% OF TOTAL PORTS IN TDR'S	

EQUIPMENT/CABLE LIST		
THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION. WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE, FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
SYMBOL	ITEM DESCRIPTION	ACCEPTABLE TYPES
	STATION CABLE, DATA - CATEGORY 6A F/UTP RISER, DATA, BLUE	SIEMON 96R4A5-06-R1A
	STATION CABLE, DATA - CATEGORY 6A F/UTP PLENUM, WIRELESS, YELLOW	SIEMON 96P4A5-05-R1A
	STATION CABLE, DATA - CATEGORY 6A F/UTP PLENUM, SECURITY, BLUE	SIEMON 96P4A5-06-R1A
	STATION CABLE, DATA - CATEGORY 5E RISER, GREEN VENDOR NETWORK	SIEMON 9C5R4-E2-07-R1A
	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON 10GMX-FPS02-02
▽	BLANK INSERT, WHITE	SIEMON Z6A-S06
▽	VOICE OUTLET, SINGLE GANG FACEPLATE, WHITE W/WALL HUNG PHONE MOUNTING STUDS, ONE POSITION W/CATEGORY 6A INSERT	SIEMON MX-BL-02 SIEMON MX-WP-Z6AS-SS
▽	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION ("A" = ABOVE COUNTER)	SIEMON 10GMX-FPS04-02
▽	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06
▽	BLANK INSERT, WHITE	SIEMON MX-BL-02
▽	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION	SIEMON 10GMX-FPS04-02
▽	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06
▽	BLANK INSERT, WHITE	SIEMON MX-BL-02
▽	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	SIEMON MX-SMZZ-02
▽	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06
▽	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	SIEMON MX-SMZ2-02
▽	CATEGORY 6A JACK - WIRELESS, YELLOW	SIEMON Z6A-S05
▽	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 1 POSITION	SIEMON MX-SMZ1-02
▽	CATEGORY 6A JACK - SECURITY, BLUE	SIEMON Z6A-S06

NOTE: ALL RACKS, LADDER, PATCH PANELS AND ACCESSORIES SHALL BE BLACK IN COLOR.

GENERAL PROJECT NOTES	
1	UNLESS OTHERWISE NOTED, INSTALL ALL CABLE INSIDE RACEWAY SYSTEMS. WHERE RACEWAY SYSTEMS HAVE NOT BEEN PROVIDED OR SPECIFIED, INSTALL CABLE THROUGH THE SPECIFIED "CADDY" CLIPS AT THE MINIMUM INTERVALS IDENTIFIED IN THE SPECIFICATIONS. SUPPORT "CADDY" CLIPS DIRECTLY FROM THE BUILDING STRUCTURE, NOT FROM OTHER BUILDING SYSTEM SUPPORT WIRES OR CABLE.
2	PROVIDE PLENUM RATED CABLE FOR ALL PLENUM SPACES. VERIFY THAT ANY PATHWAYS INSTALLED IN "WET OR DAMP" LOCATIONS AS DETERMINED BY THE AHJ, SUCH AS PATHWAYS UNDER THE SLAB, ARE SUITABLE FOR THOSE LOCATIONS, AND THAT THE SPECIFIED CABLING SYSTEMS ARE ALSO SUITABLE FOR THOSE LOCATIONS.
3	LABEL ALL CABLE INSTALLED UNDER THIS CONTRACT REGARDLESS OF LENGTH, ACCORDING TO WRITTEN SPECIFICATIONS.
4	THE EQUIPMENT LABELING IDENTIFIED ON DETAILS IN THESE DRAWINGS ARE EXAMPLES ONLY OF THE ACTUAL LABELING, WHICH IS PART OF THIS CONTRACT. PRIOR TO FABRICATION, SUBMIT THE NOMENCLATURE FOR ALL LABELS TO THE OWNER FOR REVIEW. THIS REQUIREMENT INCLUDES, BUT IS NOT LIMITED TO, ALL CABLE LABELING, AND ALL EQUIPMENT LABELING.
5	GROUND ALL EQUIPMENT RACKS, LADDER RACK, AND EQUIPMENT INSTALLED UNDER THIS CONTRACT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WRITTEN SPECIFICATIONS.
6	COORDINATE WITH OWNER I.T. PERSONNEL ON RACK PATCH PANEL DENSITY PRIOR TO ANY CABLE TERMINATION.
7	FACEPLATE COLOR WILL BE DETERMINED BY THE ARCHITECT AND OWNER. FACEPLATE COLOR SHOULD MATCH ELECTRICAL FACEPLATE COLOR, UNLESS OTHERWISE SPECIFIED.
8	FOR EVERY CABLE PULL SPECIFIED, COIL 10' OF EXCESS CABLE AT THE STATION END FOR FUTURE USE.
9	COORDINATE WITH ALL SUBS TO ENSURE THAT ALL CABLE SHALL BE PROTECTED FROM ANY DIRECT PAINT OR INCIDENTAL OVERSPRAY.

ABBREVIATIONS	
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.	
A	AUGMENTED
CAT	CATEGORY
E	ENHANCED
EA	EACH
ER	EQUIPMENT ROOM
FPP	FIBER PATCH PANEL
GIG	GIGA HERTZ
HWM	HORIZONTAL WIRE
NIC	MANAGEMENT
OE	NOT IN CONTRACT
PNM	OWNER ELECTRONICS
PR	PLENUM
PS	PAIR
PSP	POWER SUPPLY
SPP	RISER PATCH PANEL
TC	STATION PATCH PANEL
TYP	TELECOMMUNICATIONS ROOM
VWM	TYPICAL VERTICAL WIRE MANAGEMENT

DEFINITIONS	
NOTE: ALL DEFINITIONS MAY NOT BE USED.	
INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.	
DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.	
APPROVE: THE TERM "APPROVED" WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.	
FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."	
INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."	
PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."	
INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.	
ELECTRONIC SYSTEMS: THE TERM "ELECTRONIC SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC..	



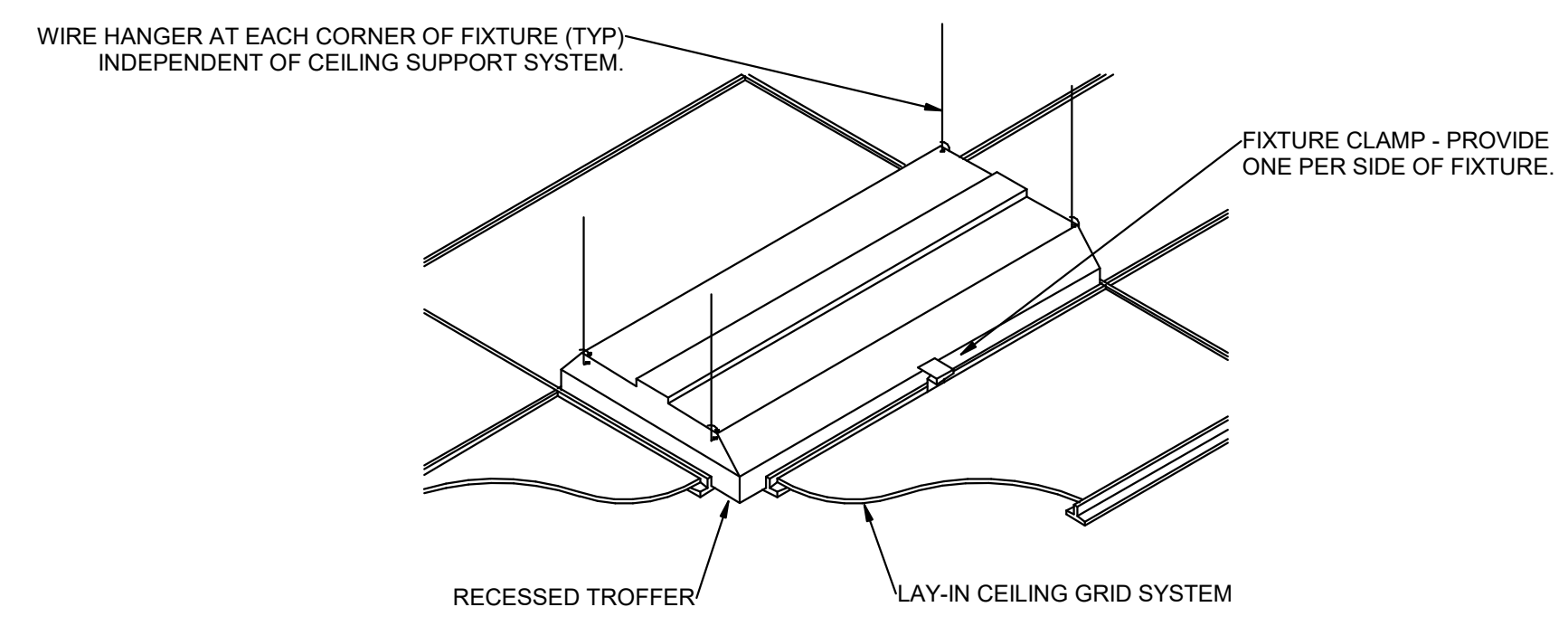
REV	DATE	DESCRIPTION

VCBO NUMBER: 22305
DATE: 05/31/2022

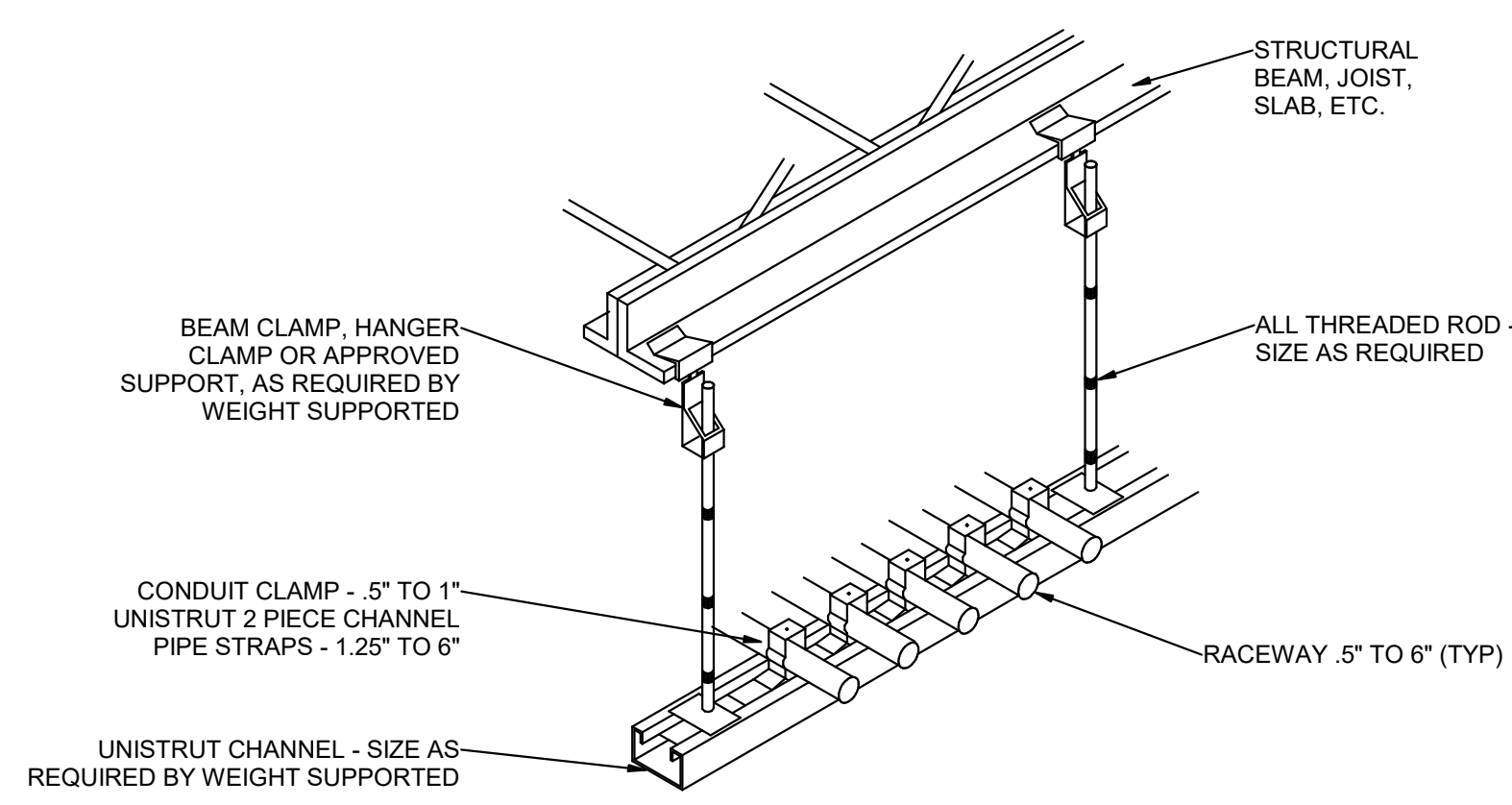
IMED OP MULTI-PURPOSE IMAGING ROOM
 INTERMOUNTAIN HEALTHCARE
 5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
 CONSTRUCTION DOCUMENTS
EE003

REV	DATE	DESCRIPTION

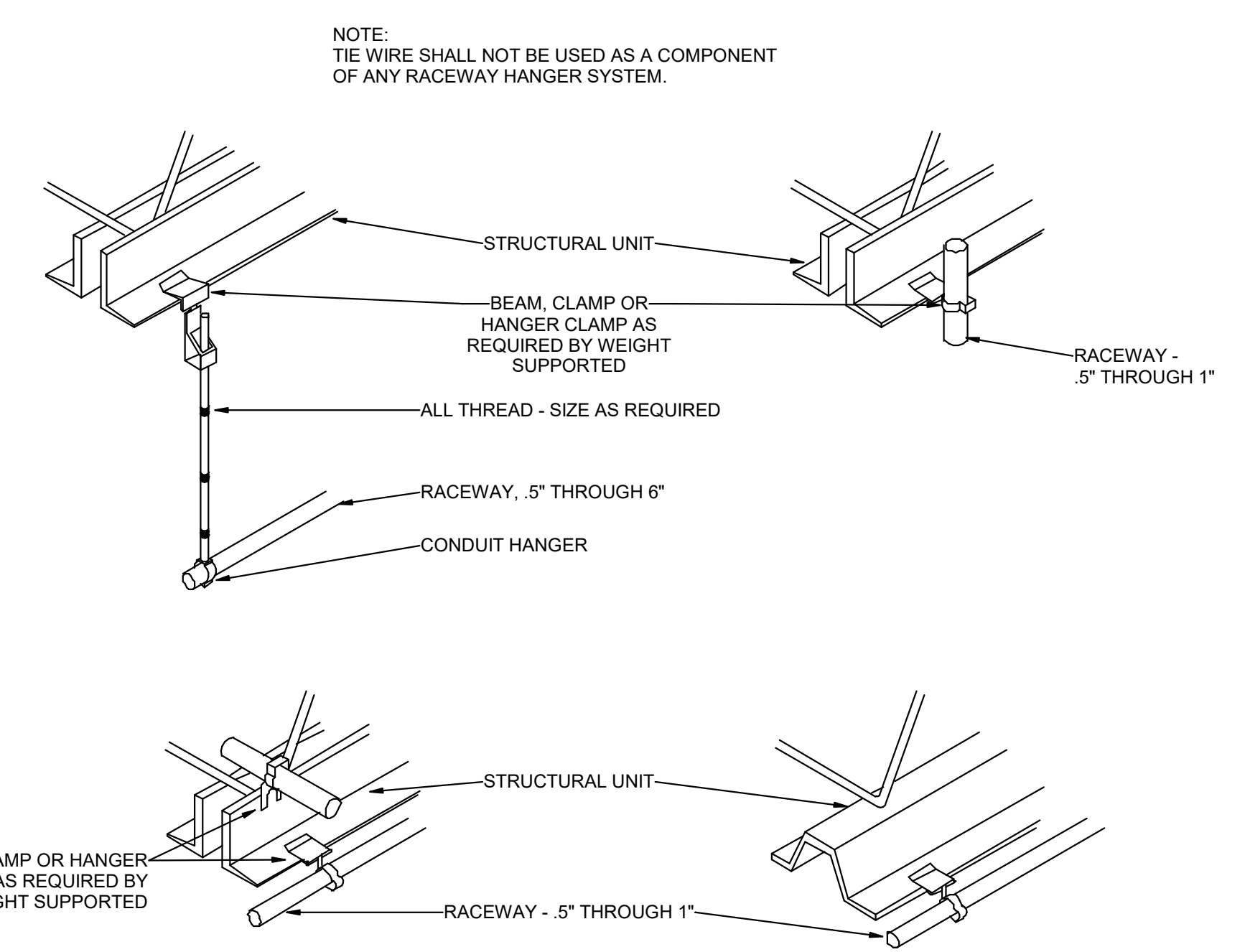
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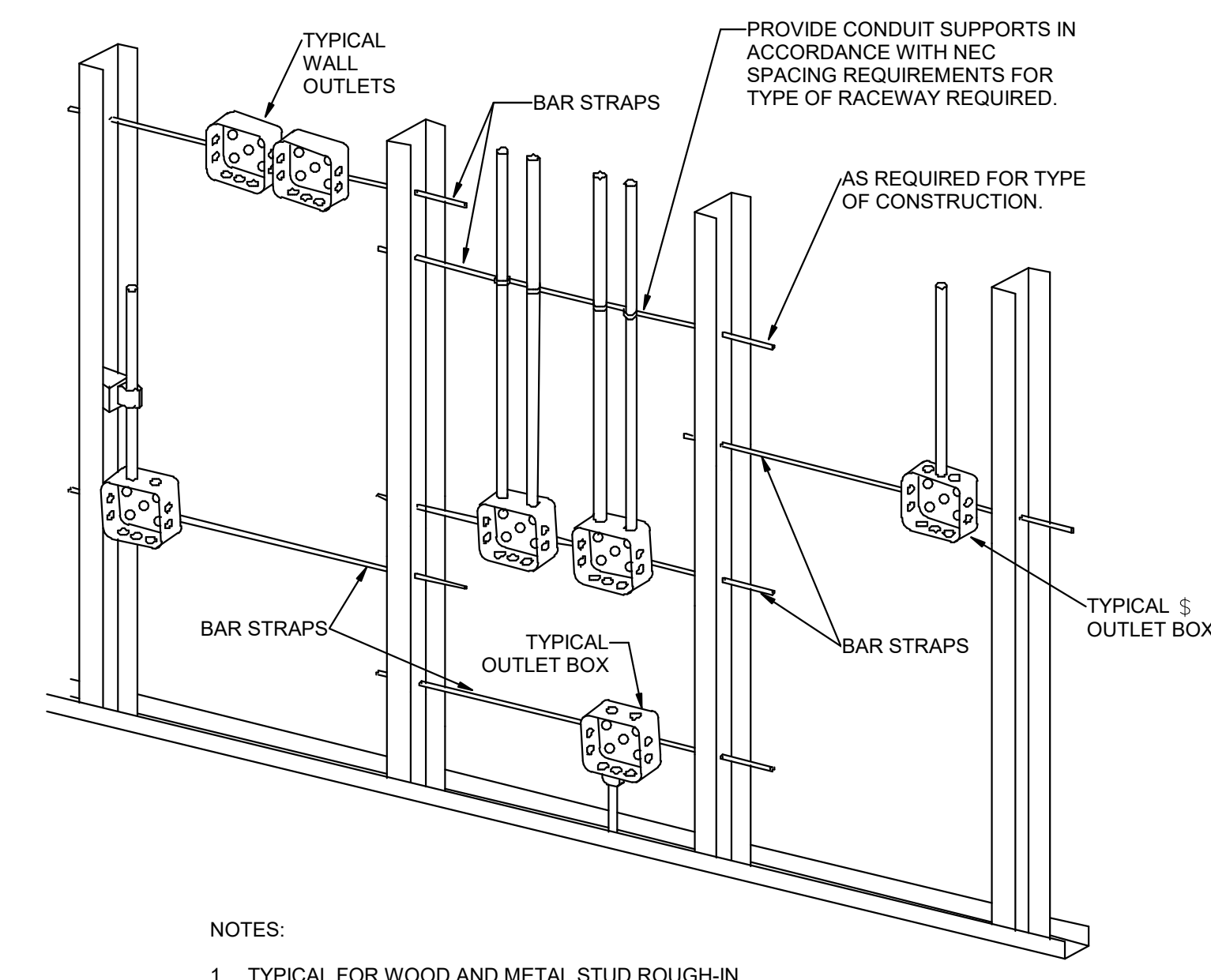
C3 RECESSED FIXTURE MOUNTING DETAIL
SCALE: 1/8" = 1'-0"



C5 TYPICAL CONDUIT RACK DETAIL
SCALE: 1/8" = 1'-0"



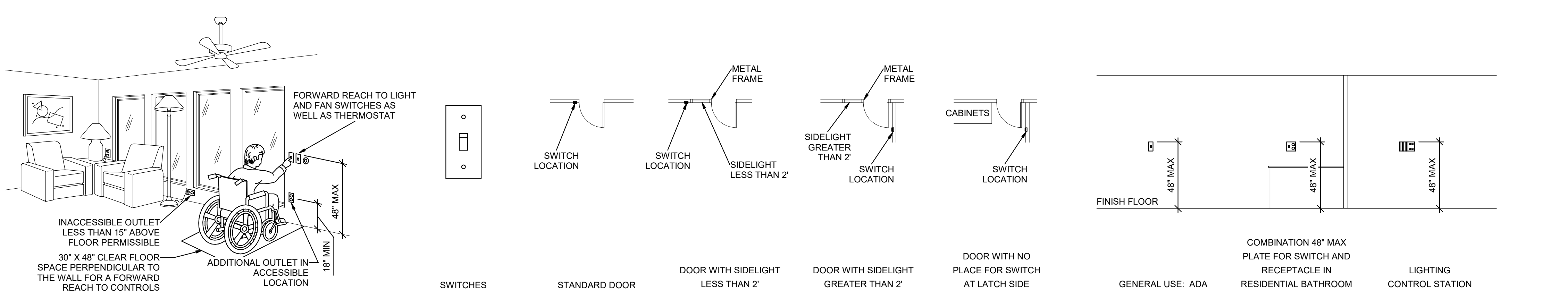
A3 TYPICAL RACEWAY SUPPORT METHODS DETAIL
SCALE: 1/8" = 1'-0"



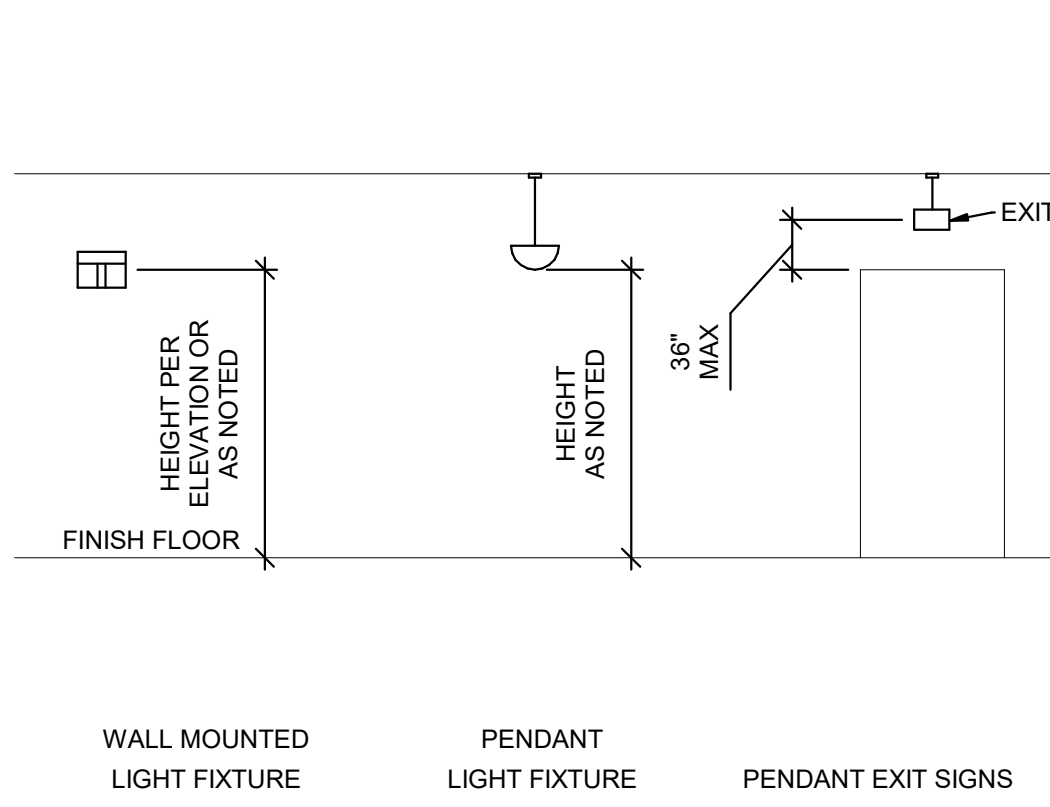
- NOTES:
1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
 2. PLASTER RINGS NOT SHOWN.
 3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
 4. IN ACCORDANCE WITH IBC 714.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE OR LISTED, SOUND AND FIRE RATED PUTTY PADS SHALL BE USED ON THE OUTLET BOXES.
 5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

A5 TYPICAL ROUGH-IN REQUIREMENTS DETAIL
SCALE: 1/8" = 1'-0"

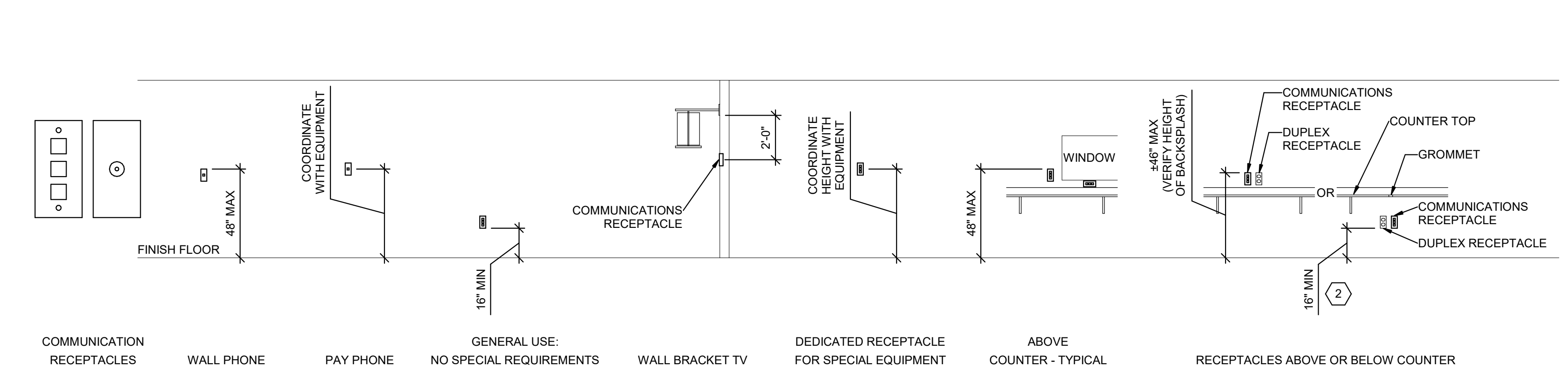
E2 RECEPTACLE MOUNTING DETAILS
SCALE: NTS



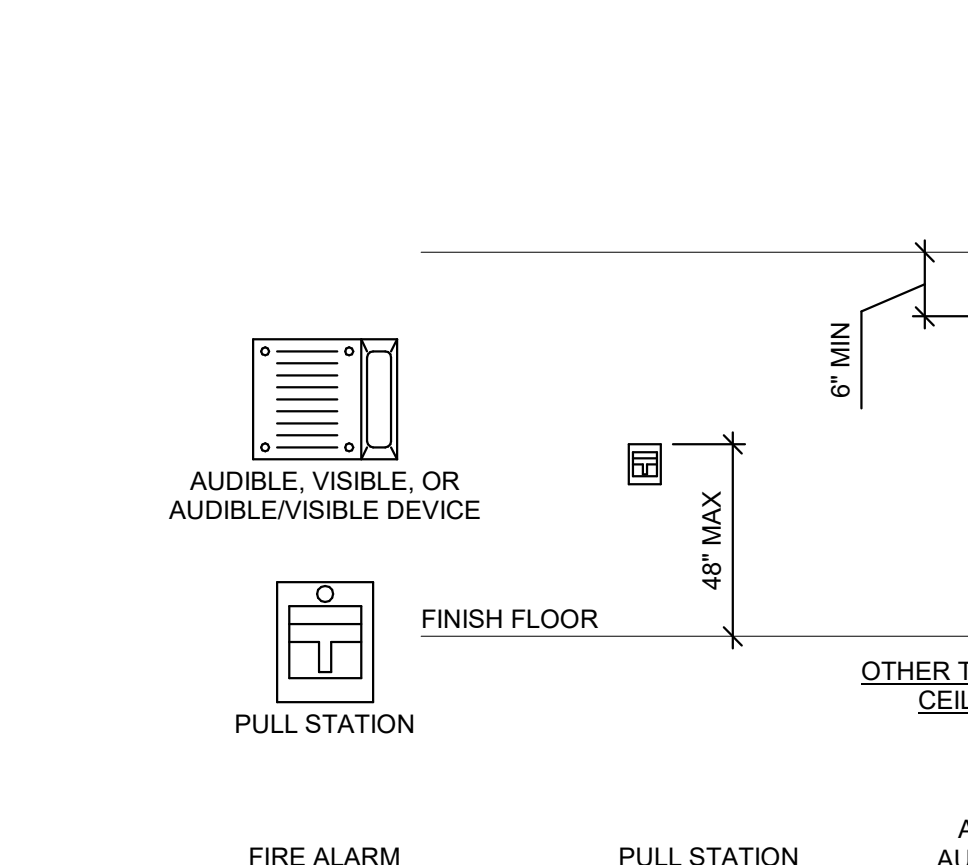
D2 ADA DETAIL
SCALE: NTS



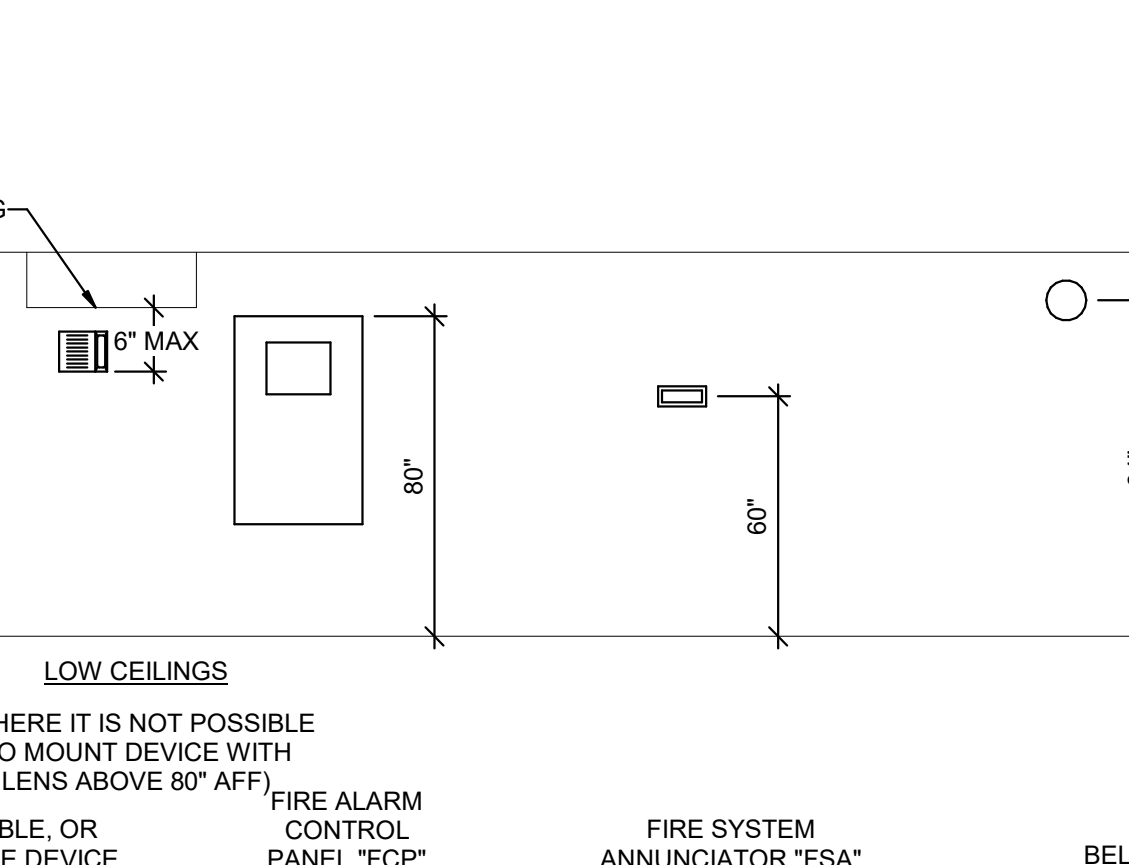
D3 SWITCH MOUNTING DETAILS
SCALE: NTS



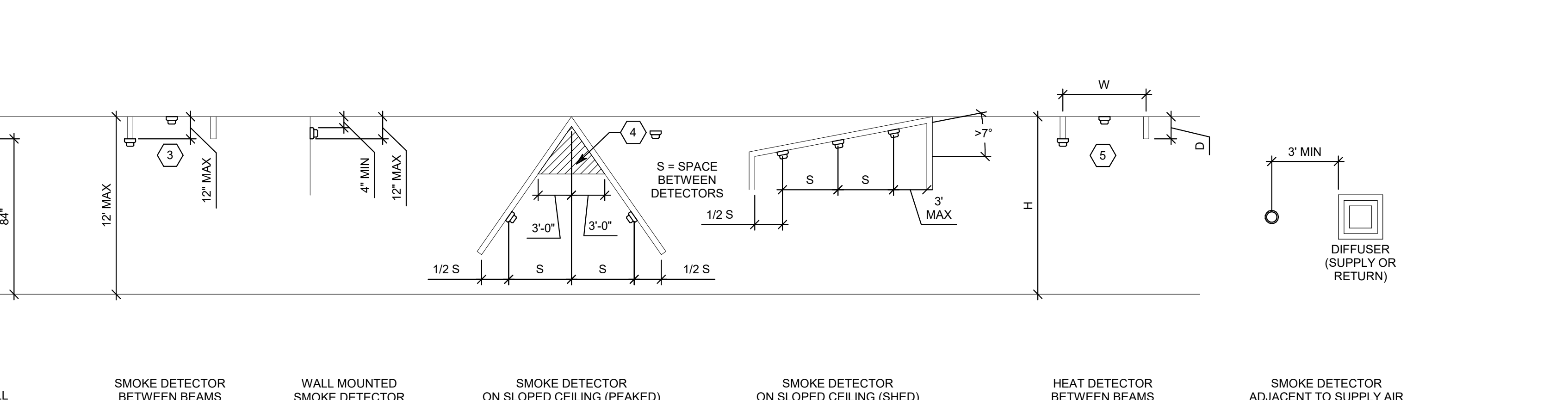
C1 CMU DEVICE MOUNTING ALIGNMENT DETAIL
SCALE: NTS



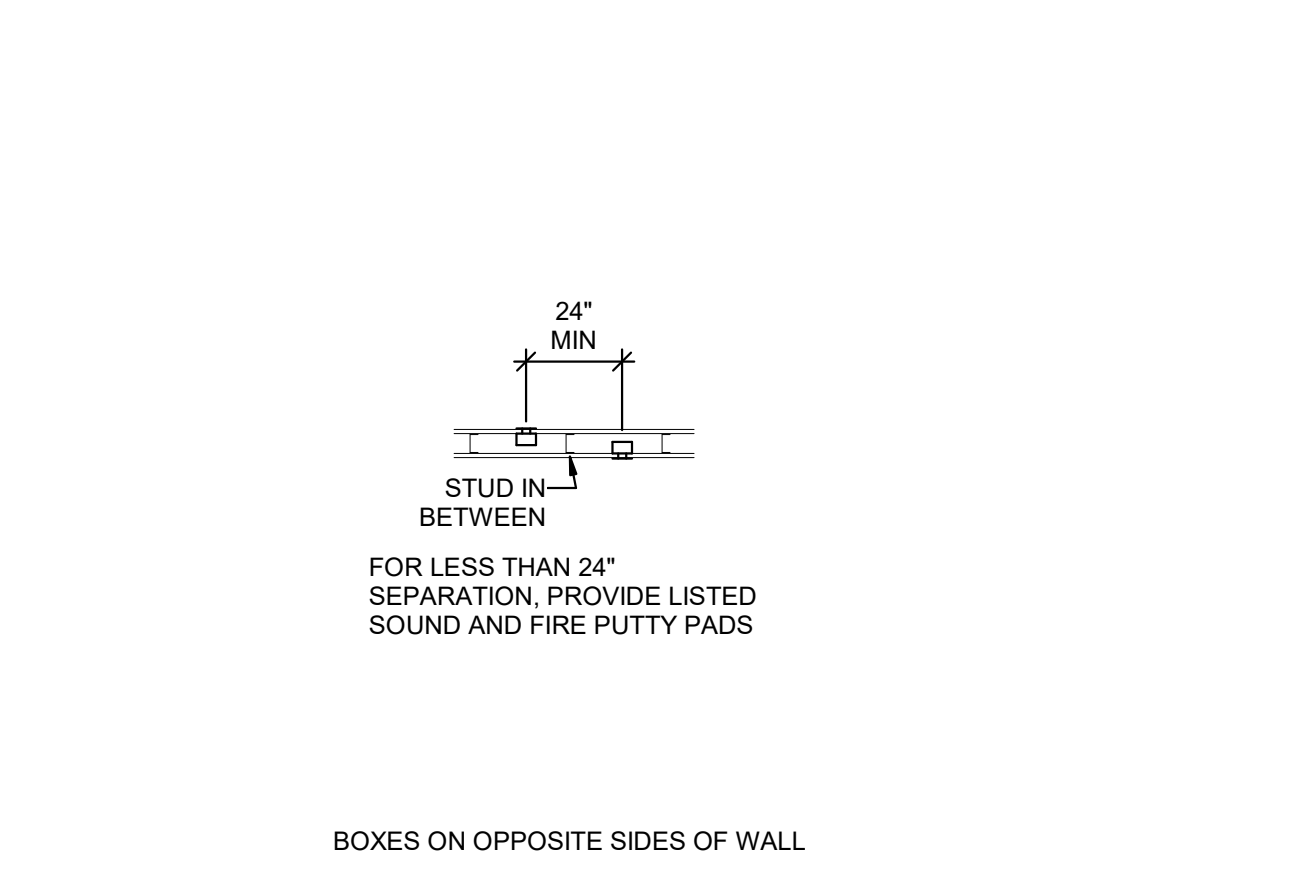
C2 LIGHTING MOUNTING DETAILS
SCALE: NTS



C3 COMMUNICATIONS MOUNTING DETAILS
SCALE: NTS



B1 FIRE ALARM MOUNTING DETAILS
SCALE: NTS



A1 BOX MOUNTING DETAILS
SCALE: NTS



A2 TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL
SCALE: NTS



GENERAL SHEET NOTES

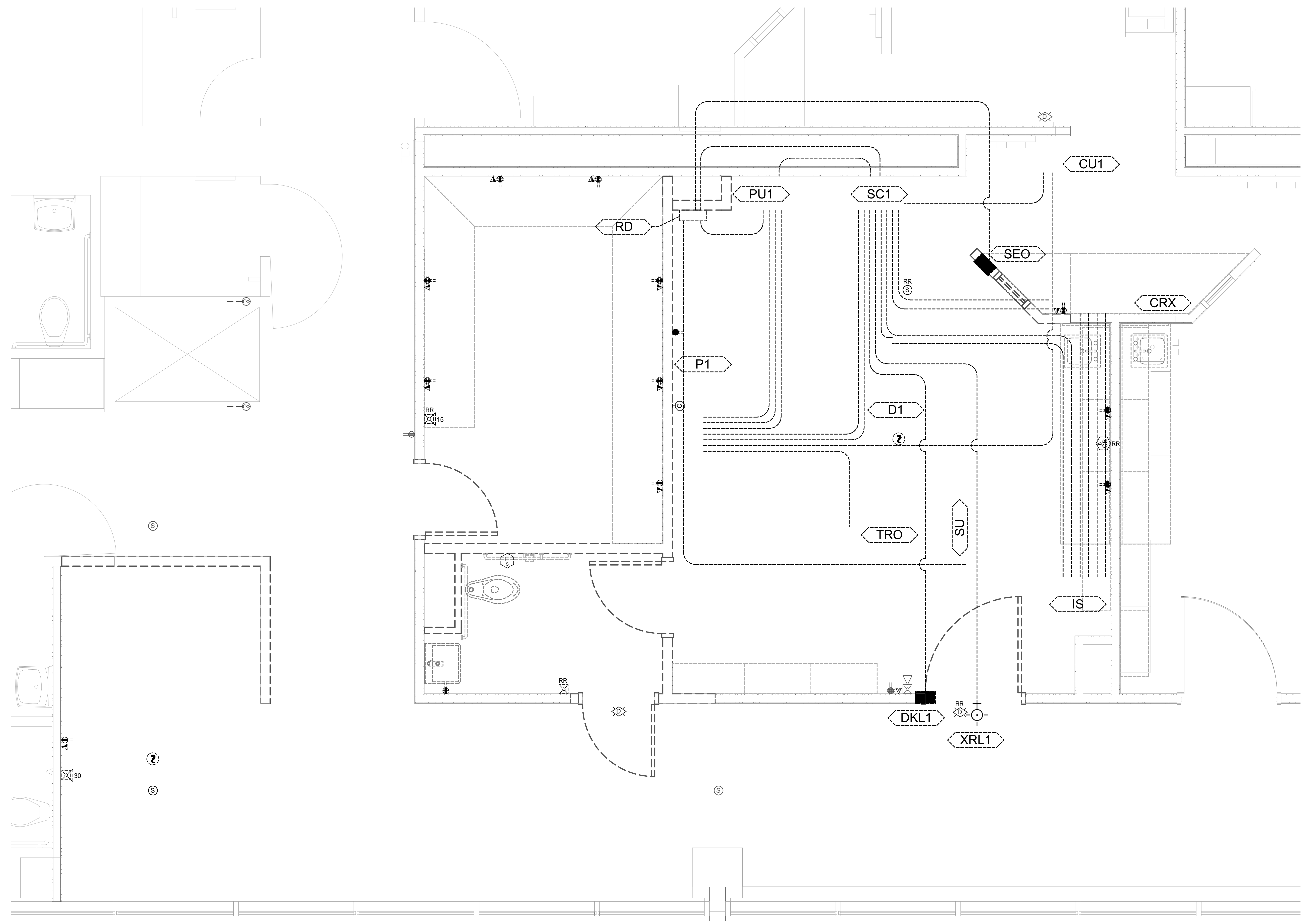
1. DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:
 - 1 - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).
 - 2 - EQUIPMENT SHOP DRAWINGS.
 - 3 - FIELD INSTRUCTIONS.
2. LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
3. MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
4. MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
5. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
6. LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
7. VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
8. LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.
9. WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

SHEET KEYNOTES

1. LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.
3. LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY 5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS, REFER TO NFPA 72.
4. LOCATE DETECTOR ANYWHERE IN SHADED AREA BUT NOT IN TOP 4" OF PEAK.
5. LOCATE AT BOTTOM OF BEAMS IF D/H < 1 OR W/H < 4; OTHERWISE, LOCATE IN BEAM POCKET. FOR D > 4 REDUCE SPACING .33 PERPENDICULAR TO BEAMS.

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GENERAL SHEET NOTES

- UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS.
- SALVAGE ALL LIGHT FIXTURES, TWIST-LOCK RECEPTACLES AND WALLPLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO OWNER. PROTECT SALVAGED EQUIPMENT FROM DAMAGE.
- PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
- PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
- REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED. WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, RE-ROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.
- REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED. WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AND INDICATING LOOPS WHERE EXISTING DEVICES ARE REMOVED.
- REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
- DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR REMOVAL OF MOTORS, CONDUIT, CONDUCTOR AND CONTROL WIRING ASSOCIATED WITH EXISTING MOTORIZED DOORS, PARTITIONS AND LIGHTING.
- DEMOLISH ALL WI-FI ACCESS POINTS WHETHER SHOWN ON DRAWINGS OR NOT WITHIN SCOPE OF WORK AREA.
- REMOVE FEEDERS FOR ALL DEMOLISHED PANELS, DISCONNECTS, ETC. BACK TO SOURCE.
- ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION.
- CONTRACTOR TO TRACE AND LABEL ALL EXISTING LOADS TO REMAIN, THAT ARE CURRENTLY FED FROM PANELS THAT ARE BEING DEMOLISHED IN THIS PHASE. THESE LOADS TO BE RE-FED FROM NEW PANELS IN NEXT PHASE.
- ALL HVAC UNITS TO BE REMOVED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED RACEWAYS AND CONDUCTORS BACK TO SOURCE.

SHEET KEYNOTES

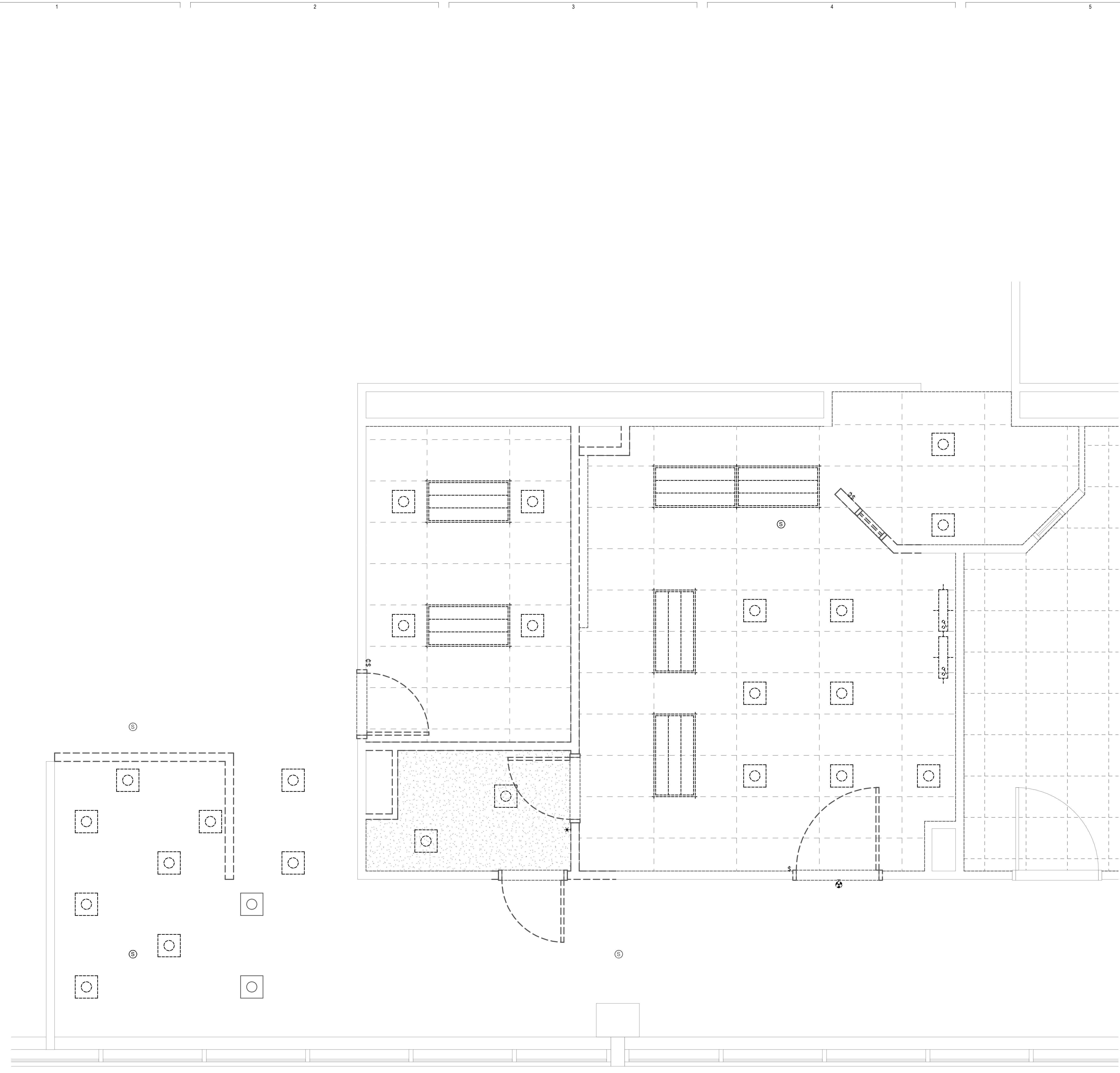


REV	DATE	DESCRIPTION

VCBO NUMBER: 22305
DATE: 05/31/2022

A1 LEVEL 2 - DEMOLITION POWER PLAN
SCALE: 1/2" = 1'-0"

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INTERMOUNTAIN HEALTHCARE
5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
CONSTRUCTION DOCUMENTS



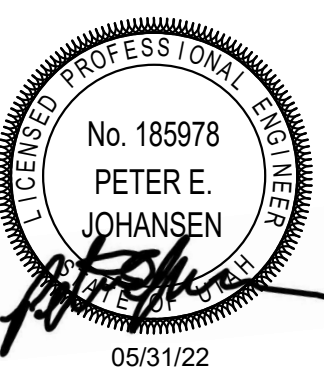
A1 LEVEL 2 - DEMOLITION LIGHTING PLAN

SCALE: 1/2" = 1'-0"

GENERAL SHEET NOTES

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- ALL HVAC UNITS TO BE REMOVED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED RACEWAYS AND CONDUCTORS BACK TO SOURCE.

SHEET KEYNOTES



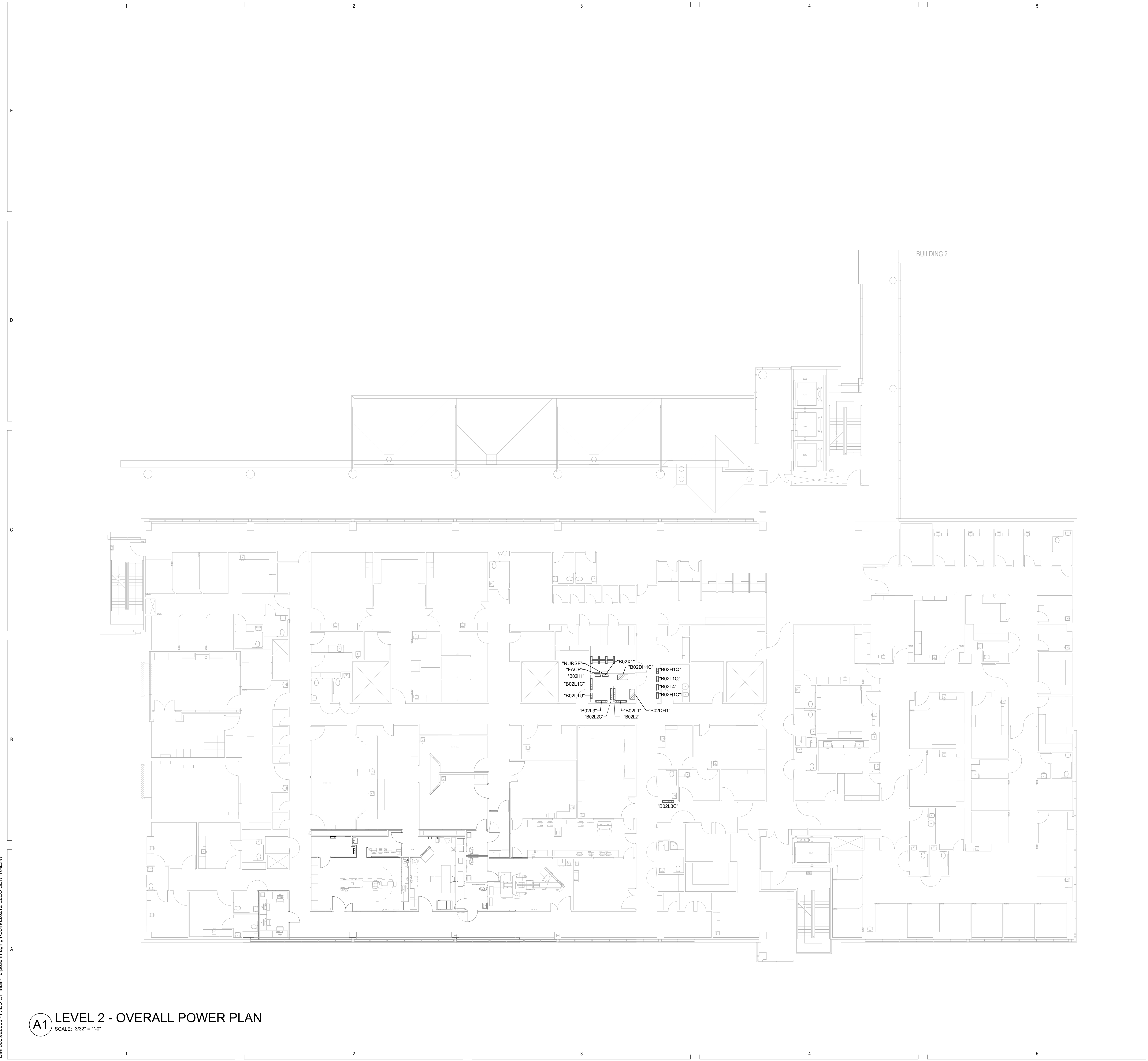
REV	DATE	DESCRIPTION

VCBO NUMBER: 22305
DATE: 05/31/2022

I-MED OP MULTI-PURPOSE IMAGING ROOM

INTERMOUNTAIN HEALTHCARE
5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
CONSTRUCTION DOCUMENTS

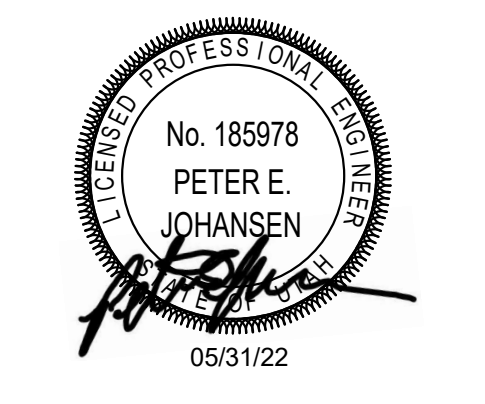
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A1 LEVEL 2 - OVERALL POWER PLAN
 SCALE: 3/32" = 1'-0"

GENERAL SHEET NOTES

SHEET KEYNOTES



REV	DATE	DESCRIPTION

VCBO NUMBER: 22305
 DATE: 05/31/2022

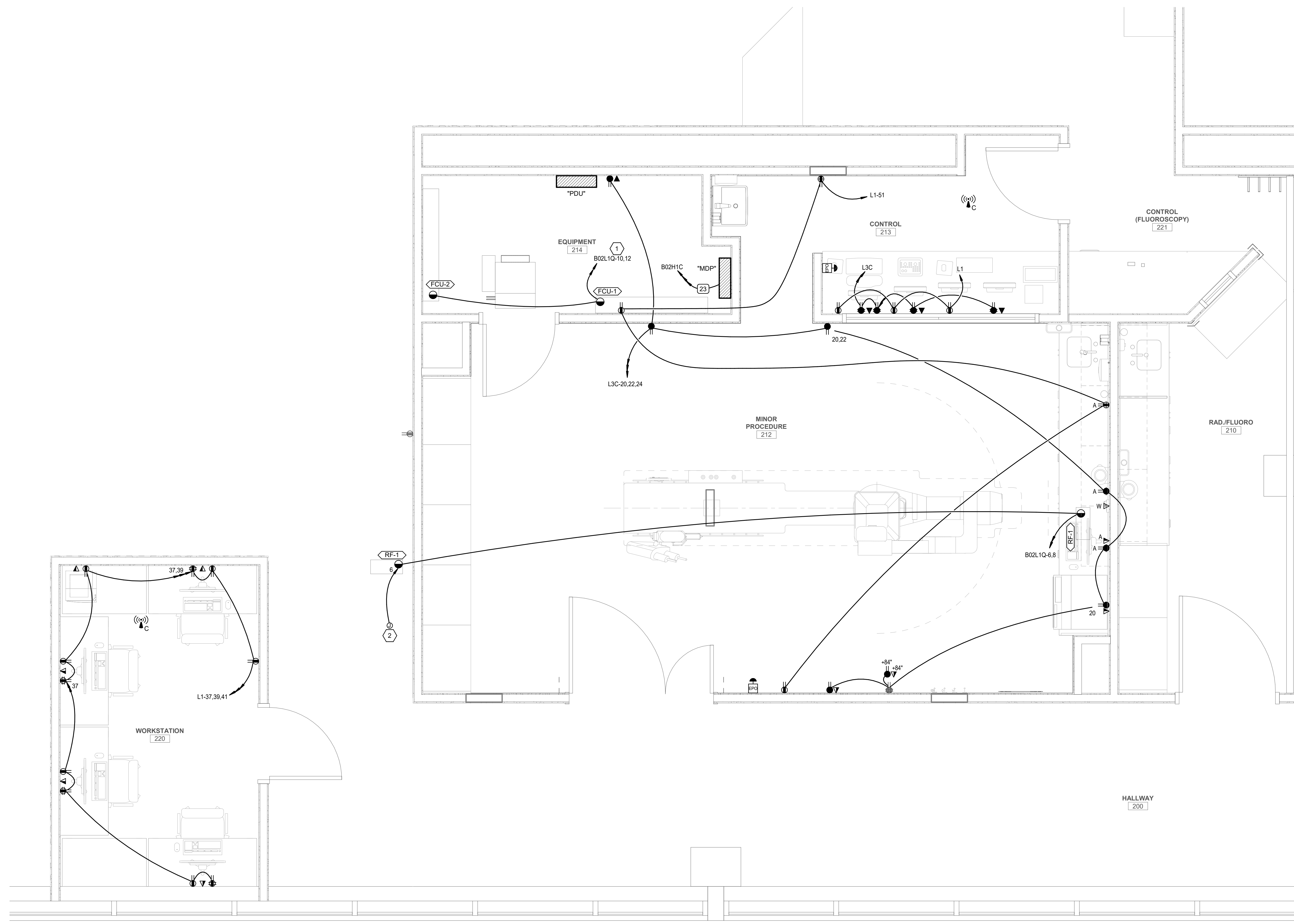
IMED OP MULTI-PURPOSE IMAGING ROOM
 INTERMOUNTAIN HEALTHCARE
 5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
 CONSTRUCTION DOCUMENTS

LEVEL 2 - OVERALL POWER PLAN
EP102

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A1 LEVEL 2 - POWER PLAN

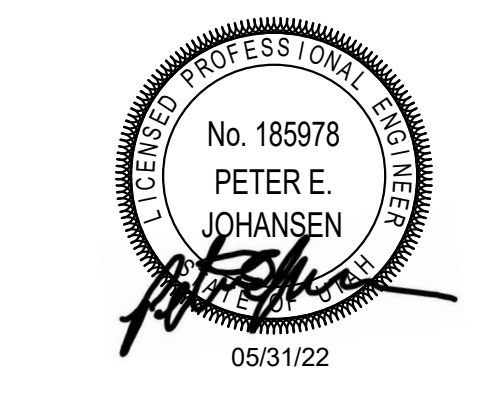
SCALE: 1/2" = 1'-0"



GENERAL SHEET NOTES

SHEET KEYNOTES

- 1 PROVIDE A NEW 20A/2P BREAKER IN EXISTING SIEMENS EQUIPMENT BRANCH PANEL.
- 2 PROVIDE J-BOX WITH 120 VOLT POWER FOR HVAC CONTROLS.. COORDINATE EXACT LOCATION WITH DIVISION 23.



REV	DATE	DESCRIPTION

VCBO NUMBER: 22305
DATE: 05/31/2022

IMED OP MULTI-PURPOSE IMAGING ROOM
 INTERMOUNTAIN HEALTHCARE
 5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
 CONSTRUCTION DOCUMENTS

ELECTRICAL NOTES

- All wires specified shall be copper stranded, flexible, thermo-plastic, color coded, cut 10 foot long at outlet boxes, duct termination points or stubbed conduit ends. All conductors, power, signal and ground, must be run in a conduit or duct system. Electrical contractor shall ring out and tag all wires at both ends. Wire runs must be continuous copper stranded and free from splices.
- Aluminum or solid wires are not allowed.
- Wire sizes given are for use of equipment. Larger sizes may be required by local codes.
- It is recommended that all wires be color coded, as required in accordance with national and local electrical codes.
- Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or national codes.
- Convenience outlets are not illustrated. Their number and location are to be specified by others. Locate at least one convenience outlet close to the system control, the power distribution unit and one on each wall of the procedure room. Use hospital approved outlet or equivalent.
- General room illumination is not illustrated. Caution should be taken to avoid excessive heat from overhead spotlights. Damage can occur to ceiling mounting components and wiring if high wattage bulbs are used. Recommend low wattage bulbs no higher than 75 watts and use dimmer controls (except MR). Do not mount lights directly above areas where ceiling mounted accessories will be parked.
- Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).
- Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local electrical codes.
- A special grounding system is required in all procedure rooms by some national and local codes. It is recommended in areas where patients might be examined or treated under present, future, or emergency conditions. Consult the governing electrical code and confer with appropriate customer administrative personnel to determine the areas requiring this type of grounding system.
- The maximum point to point distances illustrated on this drawing must not be exceeded.
- Physical connection of primary power to GE equipment is to be made by customers electrical contractor with the supervision of a GE representative. The GE representative would be required to identify the physical connection location, and insure proper handling of GE equipment.
- GEHC conducts power audits to verify quality of power being delivered to the system. The customer's electrical contractor is required to be available to support this activity.

TYPICAL PHYSIO MONITORING

Outlet Legend for Physio Equipment

1	Double hospital grade, dedicated outlet 120-v emergency, single phase power, 15a
2	5 15A NEMA Receptacle, dedicated outlet 120-v, single phase power
3	Disconnect (Hospital Grade)
4	Network outlet

ELECTRICAL LAYOUT ITEM LIST

1	Box or area of contact plates for patient monitoring - size per local code
---	--

CONNECTIVITY REQUIREMENTS

Your new GE Healthcare imaging modality will require local and remote connectivity to enable our full range of digital support:

- Local connectivity** - This allows your system to connect to local devices such as PACS and modality worklist. We will require network information to configure the system(s), and a live ethernet port(s) prior to the delivery of the system(s).
- Remote connectivity** - Your GE Healthcare service warranty includes InSite™ (applicable to InSite capable products), a powerful broadband-based service which enables digital tools that can help guard your hospital against equipment downtime and revenue loss by quickly connecting you to a GE Healthcare expert.

Depending on product family and software version, imaging systems can be connected in one of the following methods:

- TLS over TCP Port 443 (Preferred method for new products) via:
 - DNS resolution
 - Customer-provided Proxy or
 - GE Proxy (Available in some regions)
- Site-to-Site IPsec VPN tunnel

Please provide the GE project manager with the contact information for the resource that can provide information required to set up these connections. GEHC will send out communication to these contacts, which will include the project's connectivity requirements, and a Connectivity form. This form will need to be completed and returned to GEHC prior to delivery of the system to ensure the system is tested and connectivity is enabled prior to the completion of the installation.

ELECTRICAL LAYOUT ITEM LIST

ITEM	QTY	Notes
1	System emergency off (SEO), (recommended height 3.2m (10') above floor)	Customer/contractor supplied and installed unless otherwise specified. Height above floor determined by local codes unless otherwise specified.
2	X-Ray ON lamp (L1) - 24 V	
3	System ON lamp (L1) - 24 V (only if needed per local codes)	
4	Duplex hospital grade, dedicated wall outlet 120-v, single phase power	
5	Duplex hospital grade, dedicated ceiling outlet 120-v, single phase power	
6	Network outlet	
7	Duplex hospital grade, dedicated outlet 120-v emergency, single phase power, 15a	
8	6-Gang hospital grade, dedicated wall outlet 115-V, single phase power	
9	5-20R NEMA Receptacle, dedicated outlet 120-v, single phase power	

Additional Conduit Runs (Contractor Supplied and Installed)

From (Bubble # / Item)	To (Bubble # / Item)	Qty	Usable length	Size (in)
1 Gantry	13 CRFT Cabinet	4	52 ft.	4
1 Gantry	3 Table	1	13 ft.	4&2
9 Control Room	13 CRFT Cabinet	1&2	59 ft.	3&2
15 Water Line	2 Gantry	1	59 ft.	3
17 Light Signaling Control Box	Warning light	1	-	3
17 Light Signaling Control Box	System Interface Cab. (PDU)	1	-	As Req'd
17 Light Signaling Control Box	120-V 1 phase power	1	-	As Req'd
7 LED Transformer	Spooler	1	-	As Req'd
7 LED Lamp	Spooler	1	-	Cable cover with spooler
7 LED Lamp/Transformer	120-V 1 phase power	1	-	As Req'd
6 X-Ray Buzzer	14 CRFT Cabinet	1	90 ft.	1
6 X-Ray Buzzer	10 Control Room	1	90 ft.	1
5 Monitor Bridge / Room	10 Control Room	1	88 ft.	3
5 Large Display Monitor	14 CRFT Cabinet (LDM server)	1	88 ft.	3&2
13 CRFT Cabinet (LDM server)	9 Control Room	1	59 ft.	3
13 CRFT Cabinet (LDM server)	4 TRAM/PDM	2	-	3
14 System Interface Cab. (PDU)	Emergency off	1	-	3
14 System Interface Cab. (PDU)	Emergency off	1	-	3
16 Main Disconnect Panel	14 System Interface Cab. (PDU)	1	14-44 ft.	1
16 Main Disconnect Panel	480-V 3 phase power	1	-	As Req'd
11 Patient Monitoring Console	5 Monitor Bridge / Boom	1	-	3
11 Patient Monitoring Console	4 TRAM/PDM	2	-	3

POWER REQUIREMENTS

POWER SUPPLY	3 PHASES+G 380/400/415/480 V ±10%
FREQUENCIES FOR 380/400/415V	50/60 Hz ± 3 Hz
FREQUENCY FOR 480V	60 Hz ± 3Hz
PEAK POWER CONSUMPTION	150 kVA
MOMENTARY POWER CONSUMPTION	100 kVA
LONG TIME POWER CONSUMPTION	18 kVA
MINIMUM PROTECTION	100 A (D curve or equivalent)
MAXIMUM LINE IMPEDANCE PHASE TO PHASE	380 V : 0.09 Ω / 400 V : 0.096 Ω / 415 V : 0.102 Ω / 480 V : 0.12 Ω

- Power supply should come into a Mains Disconnect Panel (MDP) containing the protective units and controls.
- The section of the supply cable should be calculated in accordance with its length and the maximum line impedance phase to phase and rating of protection.

SUPPLY CHARACTERISTICS

- Power input must be separated from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers ...)
- All equipment installed with IGS system components must be powered separately (e.g. lighting, power outlets)
- Transients must be less than 2,000 V peak in common mode and 1,000 V in differential mode, with a duration limited to a few microseconds.

GROUND SYSTEM

- At least 35 mm² copper from main ground point to the MDP.
- The equipotential link will be by means of an equipotential bar. This equipotential bar should be connected to the protective earth conductors in the ducts of the non IGS cableways and to additional equipotential connections linking up all the conducting units in the rooms where IGS units are located.

CABLES

- Power and cable installation must comply with the distribution diagram.
- MDP to PDU cable shall be copper cable and cable insulation temperature shall be 90°C.
- All cables must be isolated and flexible, cable color codes must comply with standards for electrical installation.
- The cables from signaling and remote control (SEO, L...) will go to PDU with a pigtail length of 2.0 m, and will be connected during installation.
- Each conductor will be identified and isolated (screw connector).

CABLEWAYS

The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to:

- Protecting cables against water (Cableways should be waterproof).
- Protecting cables against abnormal temperatures (Proximity to heating pipes or ducts).
- Protecting cables against temperature shocks.
- Replacing cables (Cableways should be large enough for cables to be replaced).
- Only GE cables are running inside cableways.
- Metal cableways should be grounded.

MANDATORY LOTO REQUIREMENTS

- The MDP shall provide means of disconnecting the mains power from the system, with LOTO capability to ensure safe service operation. It can be done by the input breaker if it has disconnecting capability, or by a separate disconnection device.
- An operator should be able to apply LOTO without opening the MDP box. When a LOTO device is installed on the MDP input breaker or on the disconnecting device, there shall be no voltage at the output of the MDP.

POWER DISTRIBUTION FOR IGS SYSTEM

POWER SUPPLY FOR MAIN SYSTEM

Main supply 3 phases (380/400/415/480 V) (Min 35 mm² 12 AWG)
For Ground wire size ≥ Main supply 3 phases:

Technical room

SEO Emergency OFF button with two normally closed (NC) contacts in the door of MDP
SEO 1-2 Emergency OFF button with two NC contacts located 1.50 m [5 ft] above floor.
The EPO button shall be protected against accidental activation.
*Series connection of SEO1 and SEO2 NC contacts
PDU Power Distribution Unit/System Interface Cabinet

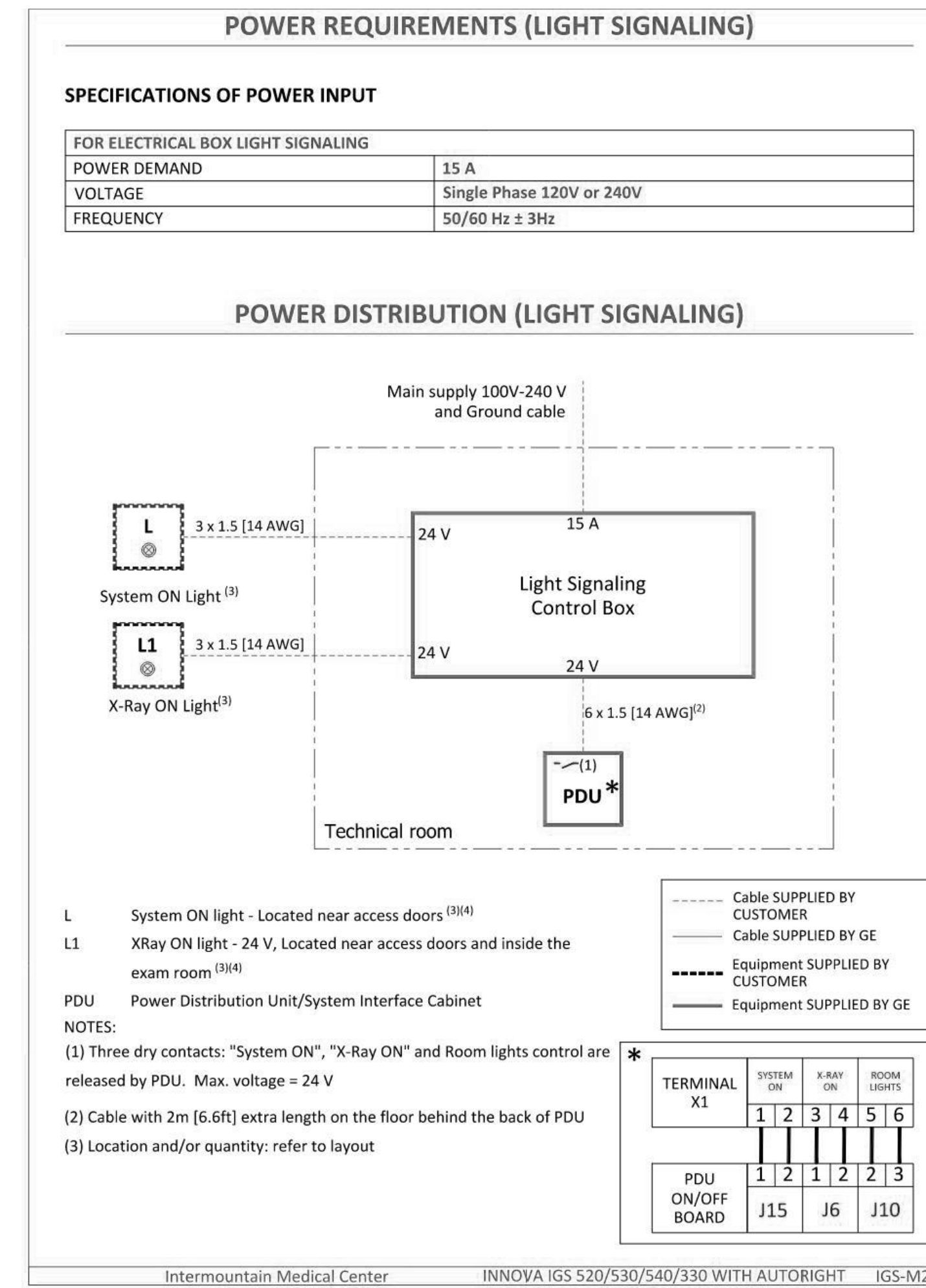
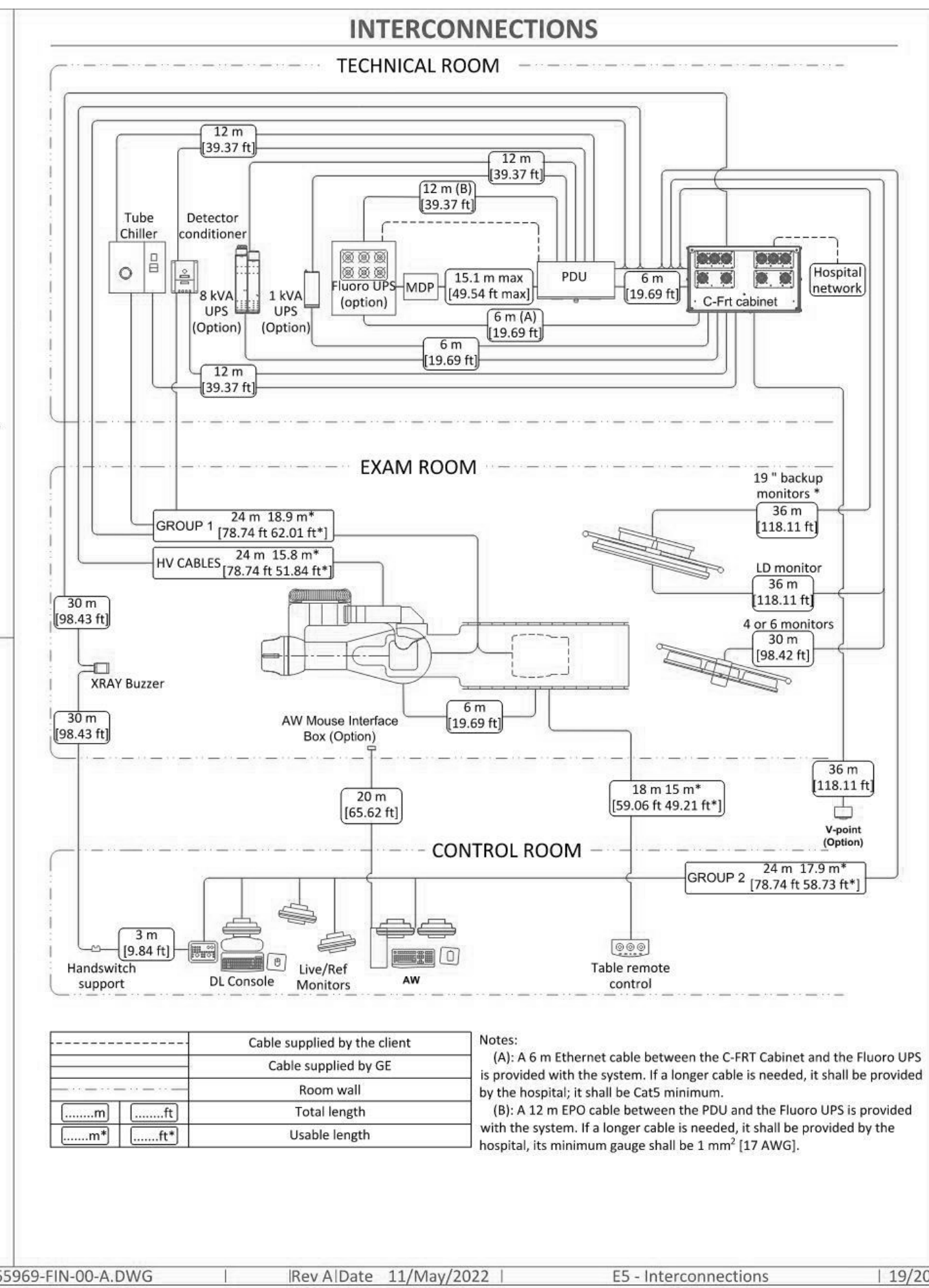
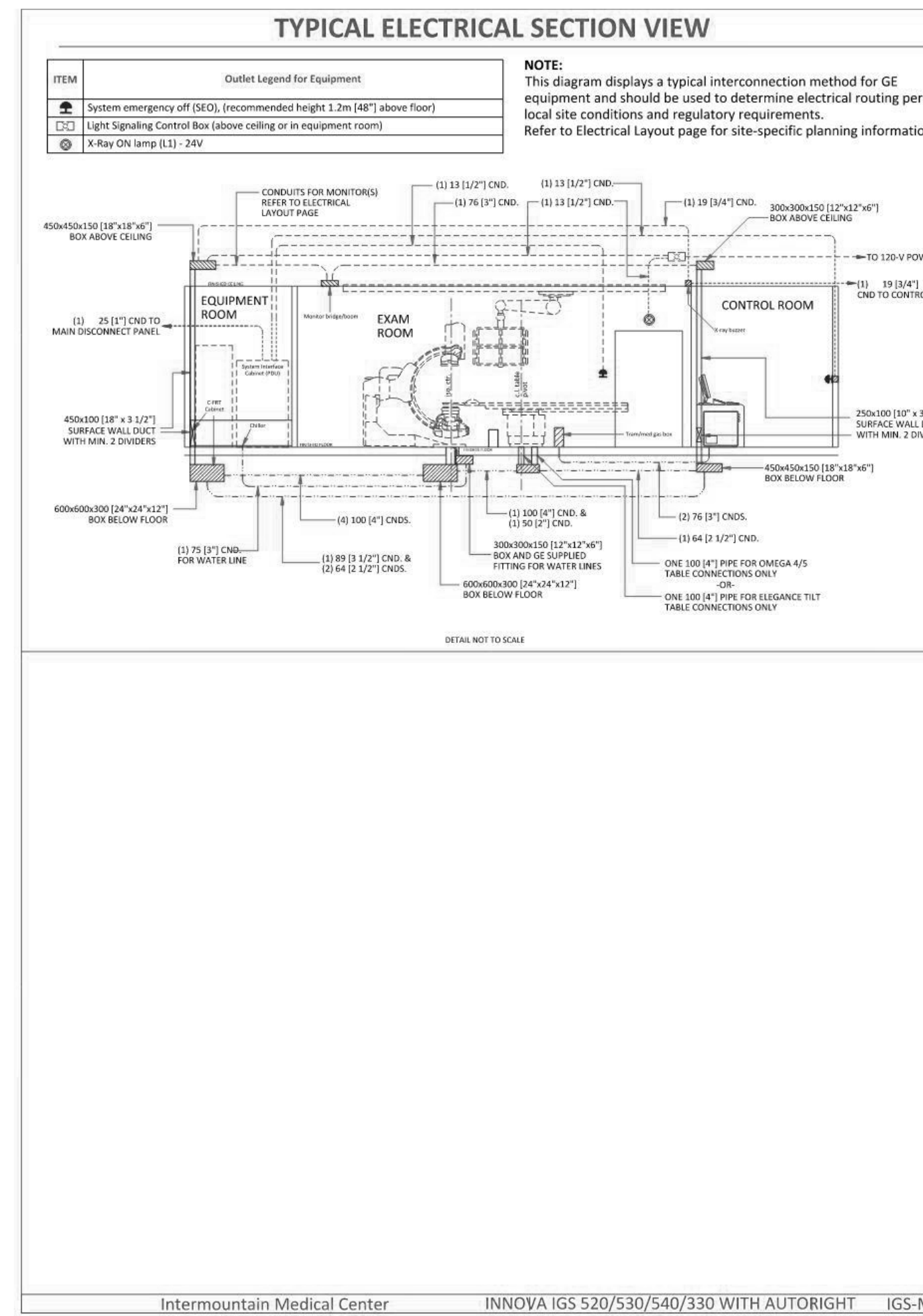
NOTES:

- Emergency power off : MDP EPO
- Emergency power off : Remote EPO
- Cable with 2 m [6.6 ft] extra length on the floor behind the PDU

LENGTH	<6 m [20 ft]	<15.1 m [50 ft]
GAUGE	Qty 1x2 AWG	Qty 2x2 AWG
GAUGE	Qty 1x35 mm ²	Qty 2x35 mm ²

Legend:

- Cable SUPPLIED BY CUSTOMER
- - - Cable SUPPLIED BY GE
- Equipment SUPPLIED BY CUSTOMER
- - - Equipment SUPPLIED BY GE



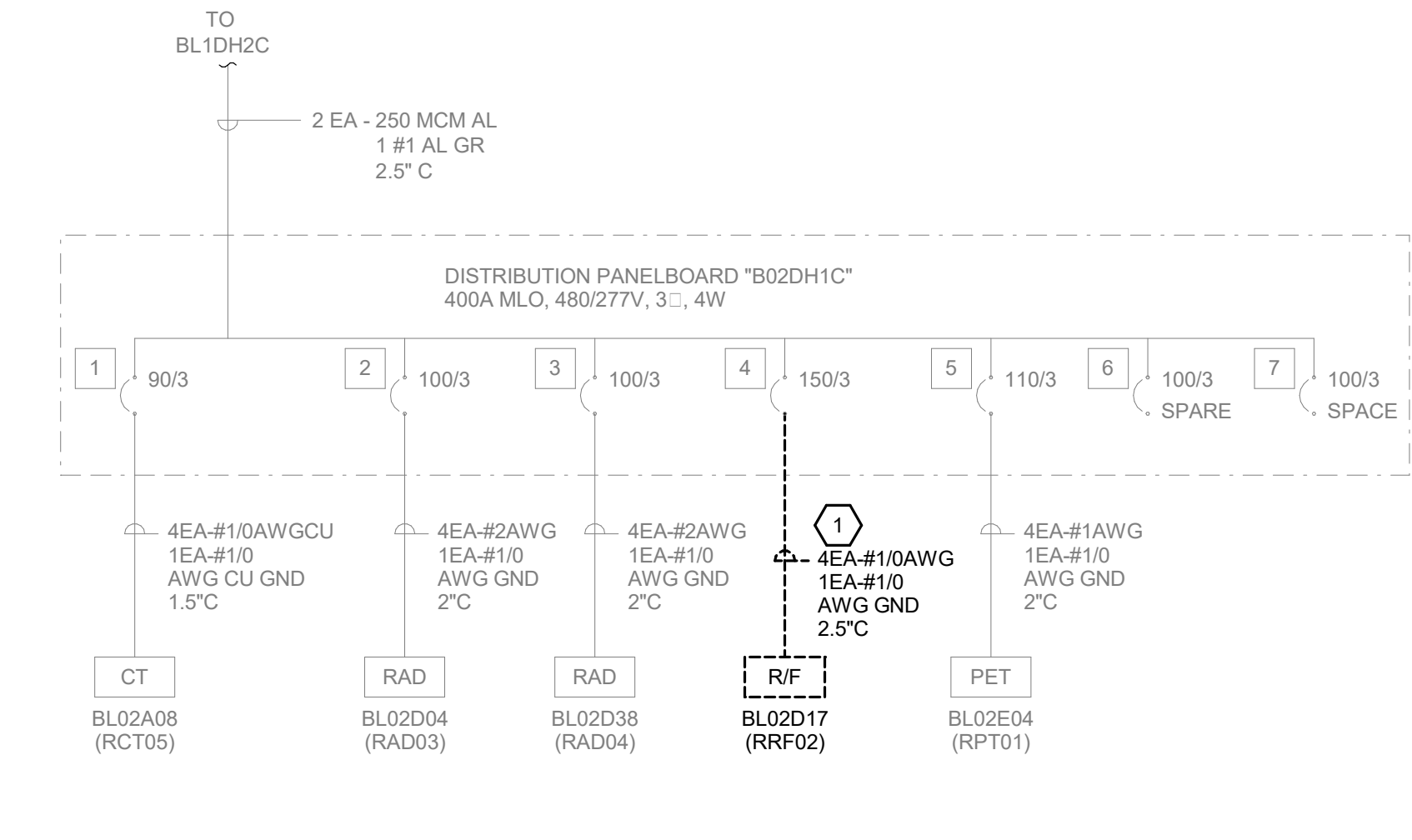
MARK	QTY	ITEM DESCRIPTION	LOAD DATA							WIRE AND CONDUIT SIZE		COND. AND CONDUIT SCHED.		OVERCURRENT PROTECTION			DISCONNECT			STARTER DATA										NOTES	MARK			
			HP	KW	MCA	FLA	VOLT	PH	Hz	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	SIZE	SPEED	CTRL VOLT	SELECTOR SWITCH	PUSH BUTTON	PILOT LAMP	NORMALLY OPEN CONTACTS	NORMALLY CLOSED CONTACTS	PHASE FAILURE RELAY	SCHEMATIC REFERENCE	REMOTE CTRL					
			2 #12, #12 GR 0.75" CND		3 #12, #12 GR 0.75" CND		3 #12, #12 GR 0.75" CND		1	E	20A/1P CB	PANEL	E	THERM SWITCH	ADJ TO EQUIP	Q																		
RF-1		RELIEF FAN PROCEDURE ROOM	0.5				120	1	60	2 #12, #12 GR 0.75" CND		1	E	20A/1P CB	PANEL	E	THERM SWITCH	ADJ TO EQUIP	Q														4,10	RF-1
FCU-1		FAN COIL EQUIP ROOM	0.08				208	1	60	3 #12, #12 GR 0.75" CND		2	E	20A/2P CB	PANEL	E	30A/2P FRS 4	ADJ TO EQUIP	Q														2	FCU-1
FCU-2		FAN COIL EQUIP ROOM	0.08				208	1	60	3 #12, #12 GR 0.75" CND		2	E	20A/2P CB	PANEL	E	30A/2P FRS 4	ADJ TO EQUIP	Q														2	FCU-2

E	DIVISION 16
Q	FURNISHED WITH THE EQUIPMENT
*	COORDINATE WITH THE DIVISION 15 TEMPERATURE CONTROL INSTALLER
**	AUTOMATIC CONTROL WIRING BY DIVISION 15

1.	LEAVE RACEWAY DEMO FEEDER.
2.	"MDP" MAIN DISCONNECT FURNISHED BY GE. EXTEND EXISTING CONDUIT TO NEW MDP LOCATION. REFERENCE GE DRAWINGS TABLE #1 FOR GROUNDING CONDUCTOR SIZE.

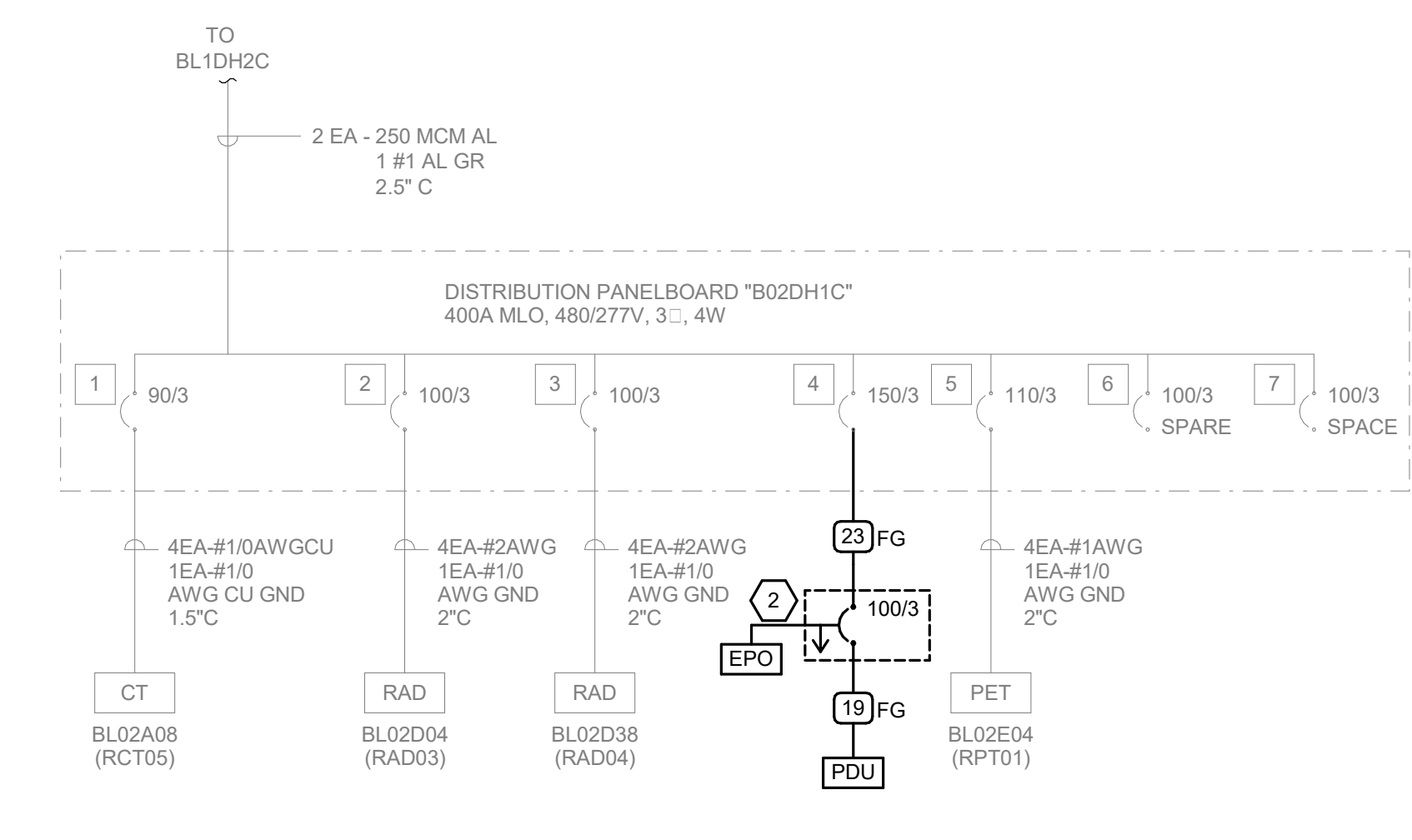


C3 DEMOLITION ONE LINE DIAGRAM
SCALE: NTS



ALUMINUM CONDUCTOR AND CONDUIT SCHEDULE										COPPER CONDUCTOR AND CONDUIT SCHEDULE									
SCHEDULE NUMBER					SUBSCRIPT (NOTE 5)					SCHEDULE NUMBER					SUBSCRIPT (NOTE 5)				
SYM	AMP	CONDUIT SIZE	CONDUCTOR (NOTE 1) QTY	CONDUCTOR (NOTE 1) SIZE	IG	SE	NOTES	SYM	AMP	HH	CONDUIT SIZE	CONDUCTOR (NOTE 1) QTY	CONDUCTOR (NOTE 1) SIZE	IG/HH	SE	NOTES			
100A	100	2	3	2/0	4	1/0	4	2,7	100A	100	1	2	2	2	2	2			
200A	200	3	4	250	4	1/0	2	2,7	200A	200	2	3	3/0	6	2	2			
300A	300	4	350	1/0	300	3/0	2,4,7		300A	300	3	500	3	3/0	3/0	2			
400A	400	2 EA 2.50	3	250	1/0	4/0	3/0	2,7	400A	400	2 EA 2	3	3/0	3	3/0	3/0	2		
500A	500	2 EA 3	3	350	1/0	300	3/0	2,4,7	500A	500	2 EA 2.50	3	250	1	4/0	3/0	2		
600A	600	2 EA 3	3	500	3/0	300	3/0	2,4,7	600A	600	2 EA 3	3	350	1/0	4/0	3/0	2,4		
700A	700	3 EA 3	4	350	3/0	300	4/0	2,4,7	700A	700	3 EA 3	3	300	2/0	4/0	3/0	2,4		
800A	800	3 EA 4	4	400	4/0	300	250	2,4,7	800A	800	3 EA 3	4	300	2/0	4/0	3/0	2,4		
900A	900	4 EA 3	3	350	4/0	300	250	4,7	900A	900	3 EA 3.50	3	400	2/0	4/0	3/0	4		
1000A	1000	4 EA 3	4	350	4/0	300	250	4,7	1000A	1000	912	3 EA 3.50	4	400	2/0	4/0	3/0	4	
1100A	1100	4 EA 4	4	500	250	300	250	4,7	1100A	1100	1032	3 EA 4	4	500	3/0	4/0	3/0	4	
1200A	1200	4 EA 4	3	500	350	300	250	4,7	1200A	1200	1240	4 EA 3	3	350	3/0	4/0	3/0	4	
1300A	1300	4 EA 4	4	500	350	300	250	4,7	1300A	1300	1120	4 EA 3	4	350	3/0	4/0	3/0	4	
1400A	1400	6 EA 4	4	400	400	350	250	4,7	1400A	1400	1675	5 EA 4	4	400	4/0	4/0	4/0	4	
1500A	1500	7 EA 4	4	500	400	400	500	4,7	1500A	1500	2010	6 EA 4	4	400	250	250	4		
1600A	1600	7 EA 4	4	750	600	750	750	4,7	1600A	1600	2980	7 EA 4	4	500	350	350	4		
1700A	1700	8 EA 4	4	750	600	750	750	4,7	1700A	1700	3040	7 EA 4	4	500	500	500	4		
1800A	1800	11 EA 4	4	750	800	750	750	4,7	1800A	1800	4180	11 EA 4	4	500	500	500	4		
1900A	1900	5 EA 4	-	-	-	-	-	6	1900A	1900	5 EA 4	-	-	-	-	6			
2000A	2000	5 EA 4	-	-	-	-	-	6	2000A	2000	5 EA 4	-	-	-	-	6			
2100A	2100	10 EA 4	-	-	-	-	-	6	2100A	2100	10 EA 4	-	-	-	-	6			

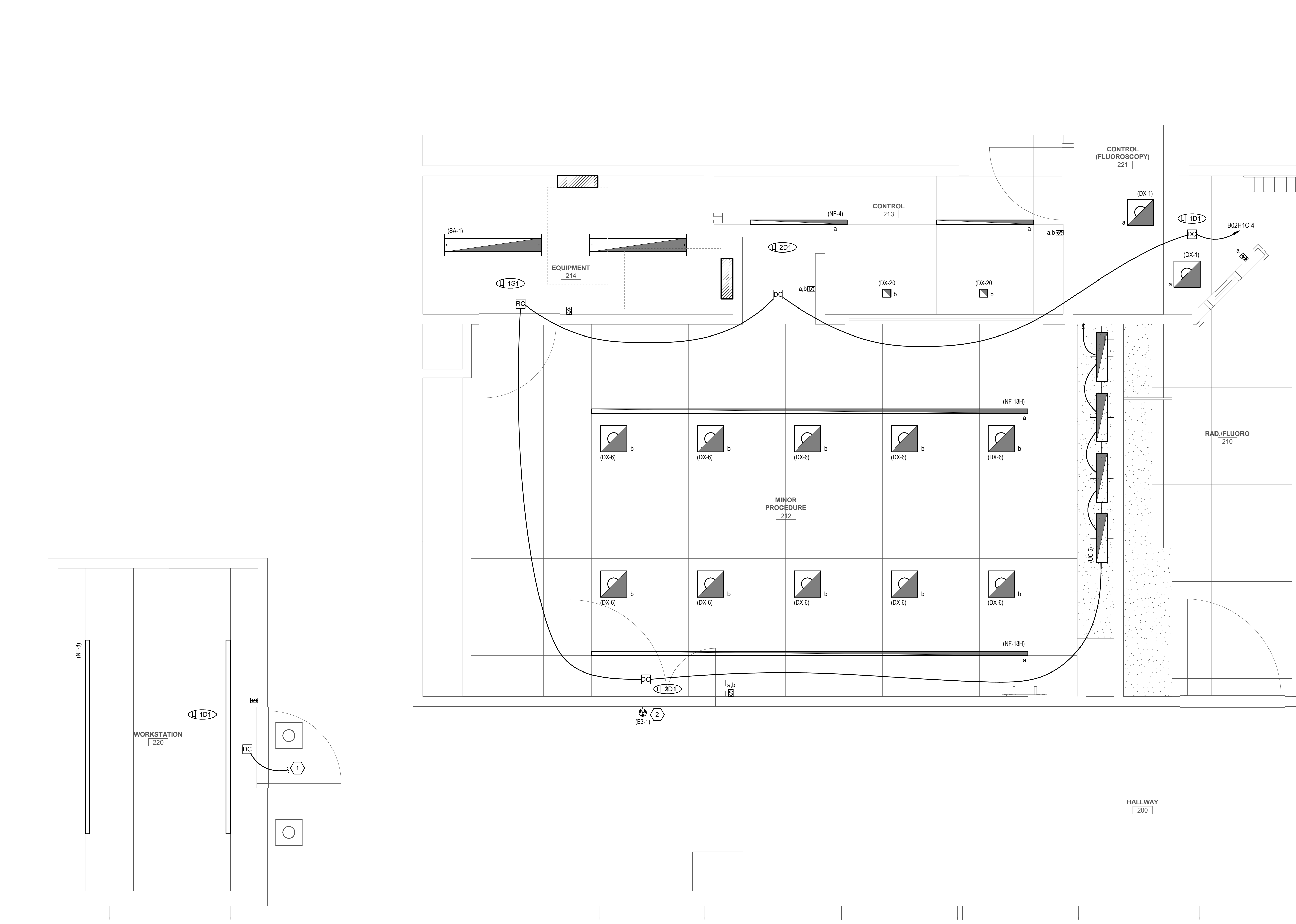
A3 NEW ONE LINE DIAGRAM
SCALE: NTS



BIM 360://22305 - IMED OP Multi-Purpose Imaging Room/202412 ELEC CENTRAL.int

VCBO NUMBER: 22305
DATE: 05/31/2022

REV DATE DESCRIPTION

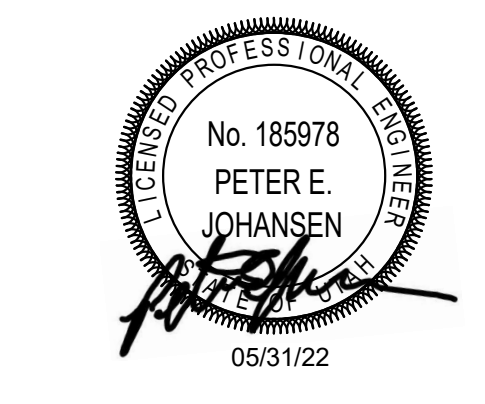


A1 LEVEL 2 - LIGHTING PLAN
SCALE: 1/2" = 1'-0"

GENERAL SHEET NOTES

SHEET KEYNOTES

- 1 CIRCUIT TO NORMAL POWER CIRCUIT WHICH PREVIOUSLY FED DEMOLISHED TECH ROOM LIGHTING (2H1-14).
- 2 SEE GE DRAWINGS FOR E3-1 CONNECTIONS. CIRCUIT WITH ROOM RECEPTACLE.



REV	DATE	DESCRIPTION

VCBO NUMBER: 22305
DATE: 05/31/2022

IMED OP MULTI-PURPOSE IMAGING ROOM

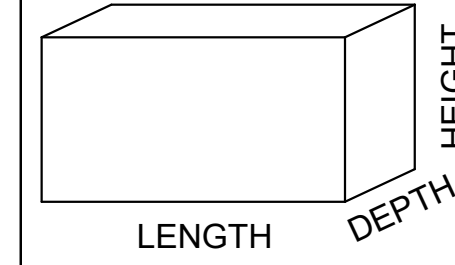
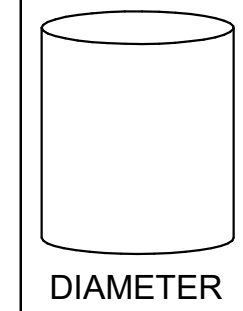
INTERMOUNTAIN HEALTHCARE
5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
CONSTRUCTION DOCUMENTS

INTERIOR LIGHTING FIXTURE SCHEDULE

ABBREVIATIONS

MOUNTING

B - BASE
C - CEILING
F - FLANGE
G - GRID
P - PENDANT
PL - POLE
R - RECESSED
S - SURFACE
W - WALL



LUMINAIRE OPTIONS

ARHR - AIR RETURN AND HEAT REJECTION
DL - DAMP LOCATION
EQC - EARTHQUAKE CLIPS
F - FUSING
HLD - HINGED AND LATCHED DOOR
HS - HOUSE SIDE SHIELD
PS - PHOTOCELL SWITCH
QRS - QUARTZ RESTRIKE
ST - STATIC
WG - WIRE GUARD
WL - WET LOCATION

FINISH

MW - MATTE WHITE
BL - BLACK
SL - SILVER
GL - GOLD
CL - CLEAR
PW - PAINTED WHITE
EA - EXTRUDED ALUMINUM
S - STEEL
GS - GALVANIZED STEEL
C - CAST
CBA - COLOR BY ARCHITECT
SCBA - STANDARD COLOR BY ARCHITECT
CCA - CUSTOM COLOR BY ARCHITECT
FS - MEETS FEDERAL STANDARD 208D
TP - THERMALLY PROTECTED
FL - FLUSH
R - REGRESS
M - MITERED

DIFFUSER/LENS

#A - ACRYLIC #THICK
#OA - ACRYLIC #THICK (OPAL)
GC - GLASS (CLEAR)
GO - GLASS (OPAL)
CL - CLEAR
PW - PAINTED WHITE
EA - EXTRUDED ALUMINUM
S - STEEL
GS - GALVANIZED STEEL
C - CAST
CBA - COLOR BY ARCHITECT
SCBA - STANDARD COLOR BY ARCHITECT
CCA - CUSTOM COLOR BY ARCHITECT
FS - MEETS FEDERAL STANDARD 208D
TP - THERMALLY PROTECTED
FL - FLUSH
R - REGRESS
M - MITERED

REFLECTOR

OP - NONE/OPEN
SP - SPECULAR
SS - SEMI-SPECULAR
D - DIFFUSE (WHITE ENAMEL)
SC - SPECULAR (COLORED)
PR - PRISMATIC
FDR - FULL DEPTH REFLECTOR
DS - DIFFUSE (SEMI SPECULAR) SILVER
LI - LOW IRIDESCENT
IR - IRRIDESCENT
SL - SILVER
OL - GOLD
CA - CLEAR/ALZAK

NOTES

GENERAL NOTES

- PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER.
- CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES.
- SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING, THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING.
- SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES.
- ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION.
- VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS.
- COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS.
- REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, DRIVERS, AND LAMPS.
- ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER.

ID	DESCRIPTION	NOMINAL SIZE				MOUNTING	TYPE	COLOR TEMP	CRI	DRIVER CONFIGURATION	VOLTAGE	WATTS	FINISH	FIXTURE LUMENS	DIFFUSER/LENS	REFLECTOR	OPTIONS	NOTES	MANUFACTURER (CATALOG SERIES)			
		LENGTH	DEPTH	HEIGHT	DIAMETER APERTURE														OPTION 1	OPTION 2	OPTION 3	
(DX-1)	6" ROUND, RECESSED LED DOWNLIGHT, SEMI-SPECULAR REFLECTOR, WHITE TRIM FINISH	-	-	-	0' - 6"	CR	LED	4000K		0-10V DIMMING (10%)	120/277	19	-	1500						GOTHAM (EVO-3515-6AR-WD-LSS-MVOLT-EZ10)		
(DX-6)	6" ROUND, RECESSED LED LENSED DOWNLIGHT, WET LOCATION, REGRESSED LENS, WHITE REFLECTOR, WHITE TRIM FINISH	-	-	-	0' - 6"	CR	LED	3500K		0-10V DIMMING (<1%)	120/277	23	-	2000						GOTHAM (EVO-3520-6WR-WD-MVO-LT-EZ10)		
(DX-20)	2" ROUND, RECESSED LED DOWNLIGHT, SEMI SPECULAR REFLECTOR, WHITE TRIM FINISH				0' - 2"	CR	LED	3500K	90	0-10V DIMMING (10%)	120/277	6	WH	310						IGUZZINI (LBO2 TL 035 FL UNV 31)	GOTHAM (ICO2 35/05)	PORTFOLIO (LD2B05)
(E3-1)	X-RAY IN USE LIGHT					W	LED	RED		NO DIMMING	120/277	3	WH	0			AC ONLY			KENALL (METASU) MW R X-RAY IN USE DT)	LITHONIA (LOM P W 1 R 120-277 SW 16 X-RAY IN USE)	CHLORIDE (AMS GW XRAY IN USE RFR)
(NF-4)	4" X 4" LINEAR RECESSED SLOT, GRID MOUNT	4' - 0"	0' - 4"	-	-	CR	LED	4000K		0-10V DIMMING (10%)	120/277	24	-	2000						PINNACLE (E4A-835-4-GX-U-OL1-1-W)		
(NF-8)	4" X 8" LINEAR RECESSED SLOT, GRID MOUNT	8' - 0"	0' - 4"	-	-	CR	LED	4000K		0-10V DIMMING (10%)	120/277	48	-	4000						PINNACLE (E4A-835-8-GX-U-OL1-1-W)		
(NF-18H)	4" X 18" LINEAR RECESSED SLOT, GRID MOUNT	18' - 0"	0' - 4"	-	-	CR	LED	4000K		0-10V DIMMING (10%)	120/277	44	-	3000						PINNACLE (E4A-835-18-GX-U-OL1-1-W)		
(SA-1)	4' LED STRIP LIGHT, WHITE FINISH	4' - 0"				CS	LED	4000K		NO DIMMING	120/277	42	WH	3000						LITHONIA (ZL1D)	DAYBRITE (FSS 4 30L 835 UNV DIM)	METALUX (4SNLED-LD4-30SL-LW-U NV-L840-CD1-L)
(UC-5)	UNDER CABINET LED FIXTURE	2' - 0"	0' - 4"	-	-		LED	4000K		ELV DIMMING	120/277	8		600						DAY-BRITE (LINC5 100E-L26-935-UNV-WHG-DIM)	KENALL (AUCLED-1-MW-11L35K-2 4-277)	



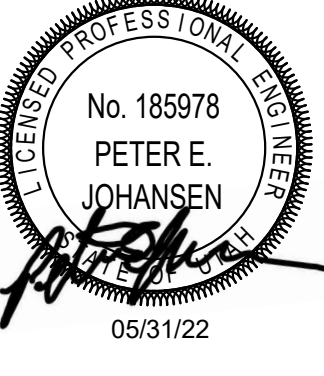
REV	DATE	DESCRIPTION

VCBO NUMBER: 22305
DATE: 05/31/2022

IMED OP MULTI-PURPOSE IMAGING ROOM
 INTERMOUNTAIN HEALTHCARE
 5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
 CONSTRUCTION DOCUMENTS

LIGHTING/SPACE CONTROL TYPE SCHEDULE

WIRING LEGEND	APPROVED MANUFACTURERS	LIGHTING CONTROL ID	GENERAL NOTES										GENERAL NOTES							
_____ LINE VOLTAGE WIRING - - - - - 0-10V WIRING ----- CAT5E CABLING _____ WIRING BY OTHERS ○---○ TWP SEGMENT NETWORK CABLING	1. WATTSTOPPER (BASIS OF DESIGN) 2. NLIGHT 3. HUBBELL BUILDING AUTOMATION 4. GREENGATE	1. # = NUMBER OF ZONES 2. D = DIMMING, S = SWITCHING 3. P = DAYLIGHT PHOTOCELL 4. L = PLUG LOAD CONTROLLER 5. # = INSTANCE	1. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER. 2. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION. 3. PROVIDE CUSTOMIZED ENGRAVED PERMANENT BUTTON LABELS ON EACH SWITCH, LABEL TO MATCH BUTTON LABEL ID OR AS DIRECTED BY OWNER. 4. PART NUMBERS SHOWN ARE BASED ON WATTSTOPPER AS THE BASIS OF DESIGN. ALL APPROVED MANUFACTURERS ARE SUBJECT TO MEETING ALL FUNCTIONS AND CAPABILITIES OF THE BASIS OF DESIGN SYSTEM AND PRODUCTS. FAILURE TO MEET THESE SHALL REQUIRE THE CONTRACTOR TO PROVIDE A SYSTEM THAT DOES AT NOT ADDITIONAL COST.										5. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES. 6. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS. 7. WIRING MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED WIRING THAT WILL BOTH MEET THE MANUFACTURERS REQUIREMENTS AND MATCH WITH THE SHOWN SYSTEM. 8. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS INCLUDING OCCUPANCY SENSOR LAYOUT AND COVERAGE PATTERNS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR 100% COVERAGE OF SPACES WITH OCCUPANCY SENSOR CONTROL.							
ID	DETAIL	LIGHTS ON CONTROL	LIGHTS OFF CONTROL	LIGHTING CONTROL TYPE	DAYLIGHT SENSOR SETTINGS (FC)	TIME DELAY TO OFF (MIN.)	BAS AUX RELAY SIGNAL	PLUG LOAD CONTROLLER	NETWORKED CONTROLS	BUTTON_1	BUTTON_2	BUTTON_3	BUTTON_4	BUTTON_5	BUTTON_6	BUTTON_7	BUTTON_8	BUTTON_9	NOTES	
1D1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V		15	RELAY CLOSED ON OCCUPANCY													FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP- "ON/RAISE" BOTTOM:"OFF/LOWER"
1S1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	ON/OFF		15	RELAY CLOSED ON OCCUPANCY													FUNCTION: PRESS-ON PRESS-OFF LABEL ID:"ON/OFF"
2D1		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V		15	RELAY CLOSED ON OCCUPANCY													TOGGLE PRESS TOP-ON, PRESS SCENE #01 BOTTOM-OFF, HOLD TOP-RAISE, HOLD BOTTOM:"OFF/LOWER" FUNCTION: PRESET SCENE #01 ZONE "a" 75% LABEL ID: "PRE #1" FUNCTION: PRESET SCENE #02 ZONE "a" 0% ZONE "b" 75% LABEL ID: "PRE #2" FUNCTION: PRESET SCENE #03 ZONE "a" 50% ZONE "b" 50% LABEL ID: "ZONE a" FUNCTION: PRESET SCENE #04 ZONE "a" 25% ZONE "b" 25% LABEL ID: "ZONE b"



REV	DATE	DESCRIPTION

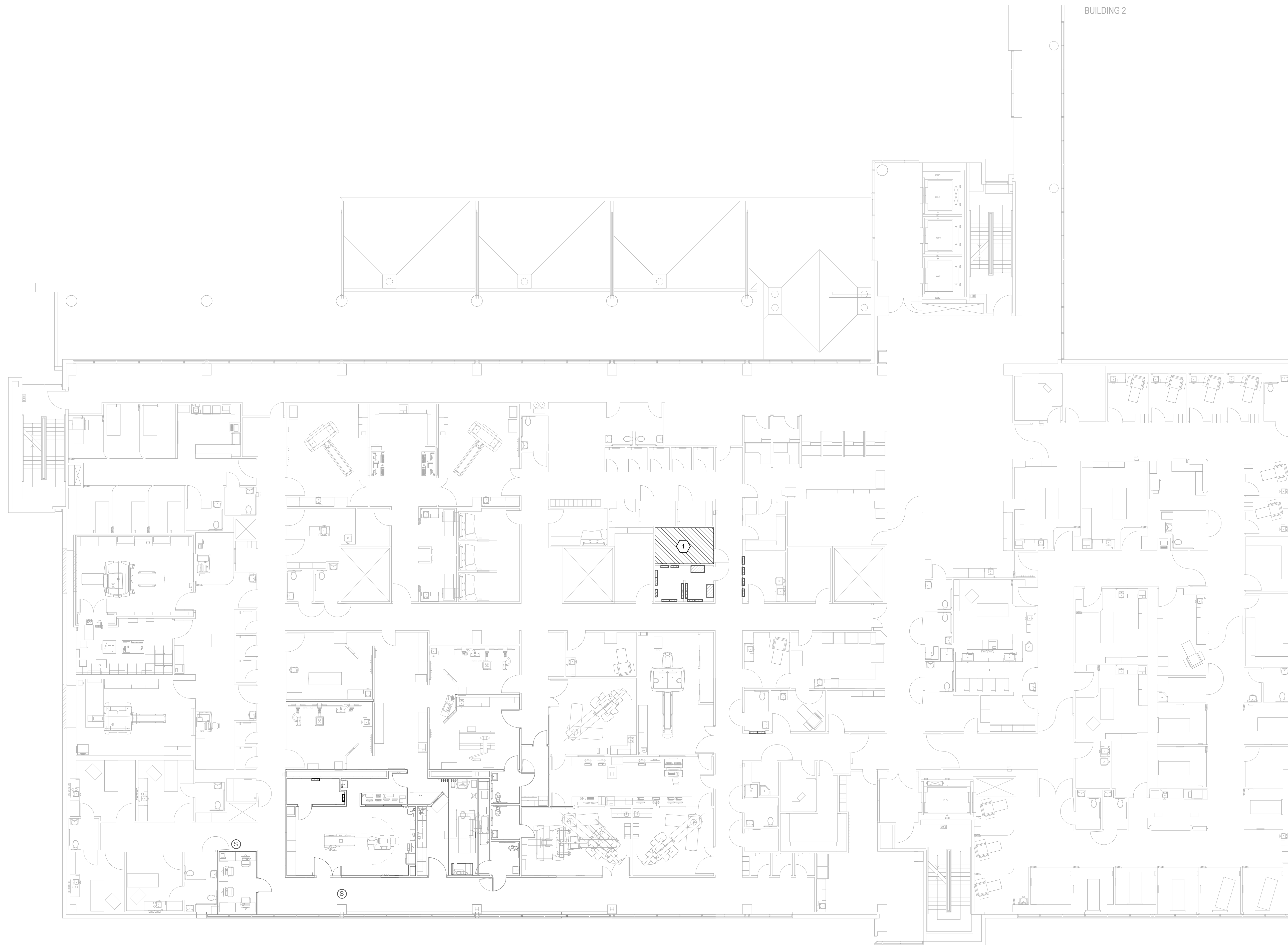
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DATE: 05/31/2022

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A1

LEVEL 2 - OVERALL TELECOM PLAN

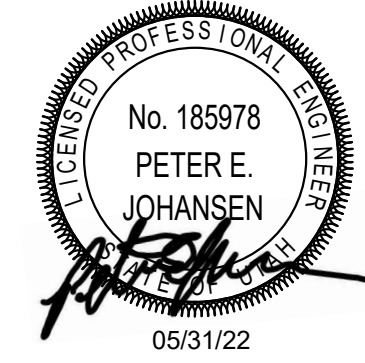
SCALE: 3/32" = 1'-0"



GENERAL SHEET NOTES

SHEET KEYNOTES

1 EXISTING TDR.



REV	DATE	DESCRIPTION

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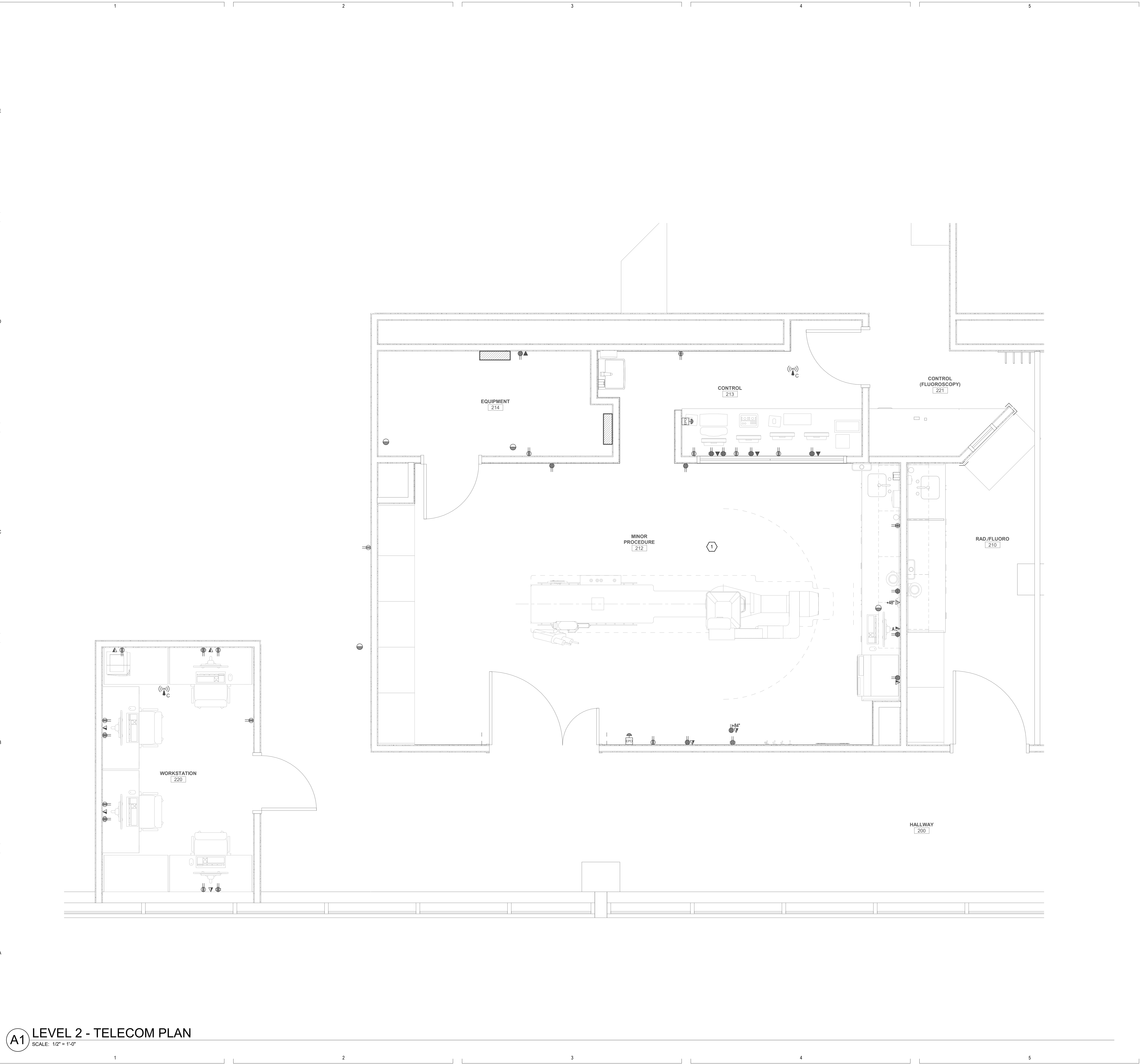
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INTERMOUNTAIN HEALTHCARE
5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
CONSTRUCTION DOCUMENTS

LEVEL 2 - OVERALL
TELECOM PLAN

ET102

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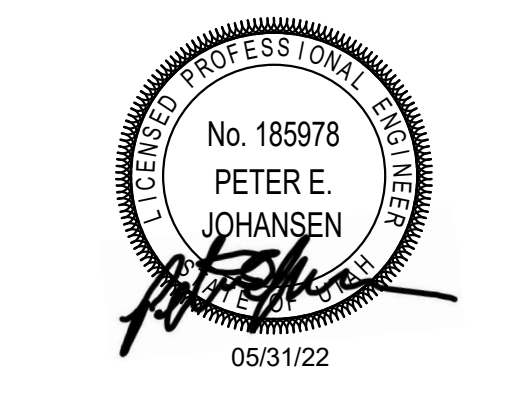


A1 LEVEL 2 - TELECOM PLAN
SCALE: 1/2" = 1'-0"

GENERAL SHEET NOTES

SHEET KEYNOTES

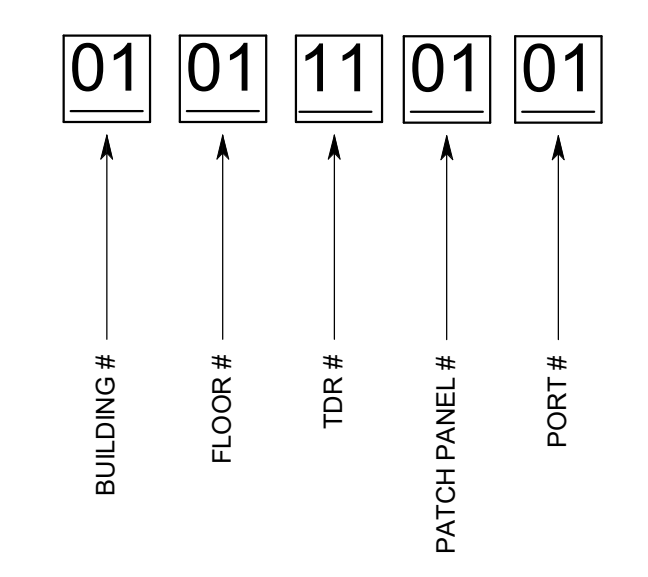
1 ALL CABLES TO BE TERMINATED TO EXISTING TDR REFER TO SHEET ET102 FOR LOCATION OF TDR.



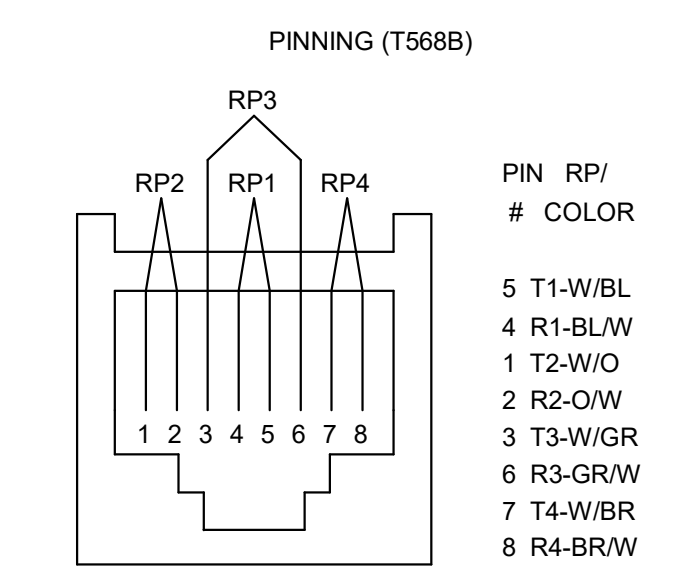
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DATE: 05/31/2022

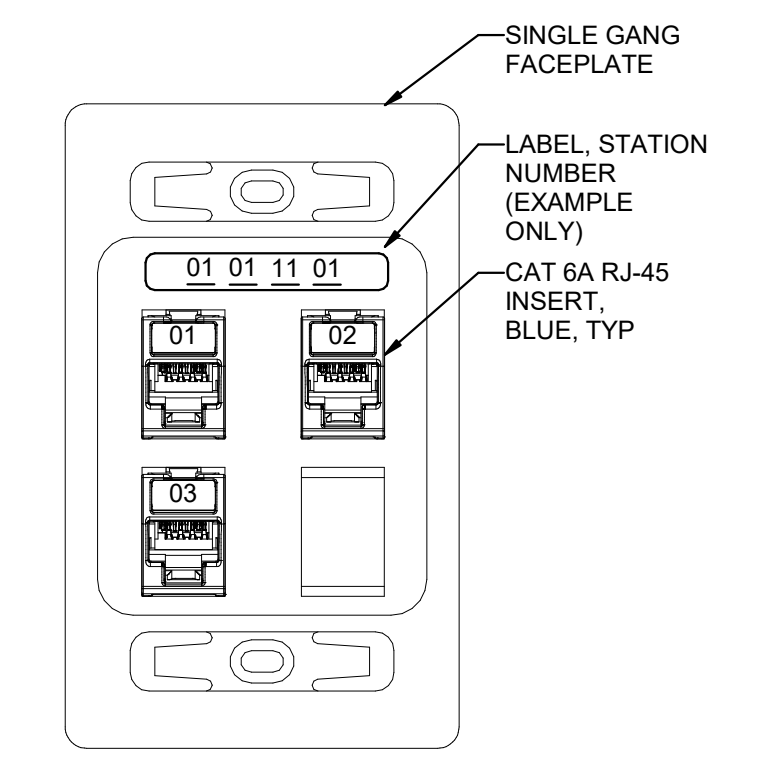
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INTERMOUNTAIN HEALTHCARE
5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
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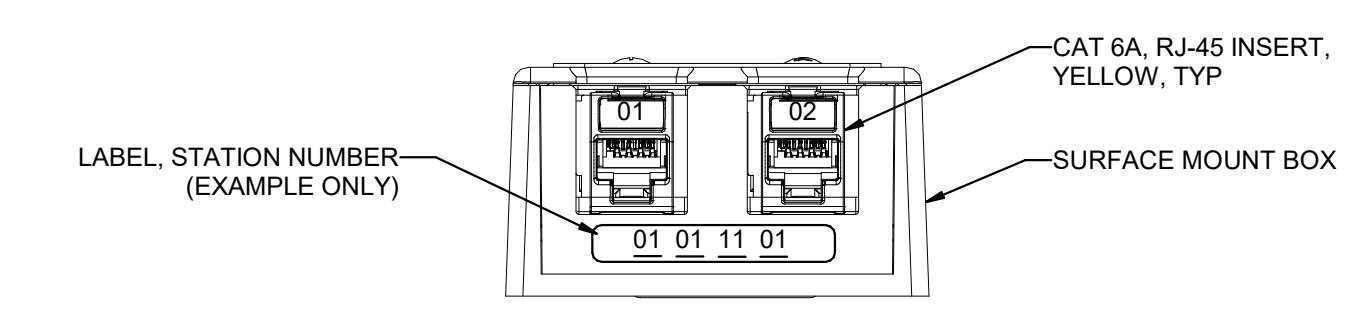
E6 CABLE ID EXAMPLE DETAIL
SCALE: 1/8" = 1'-0"



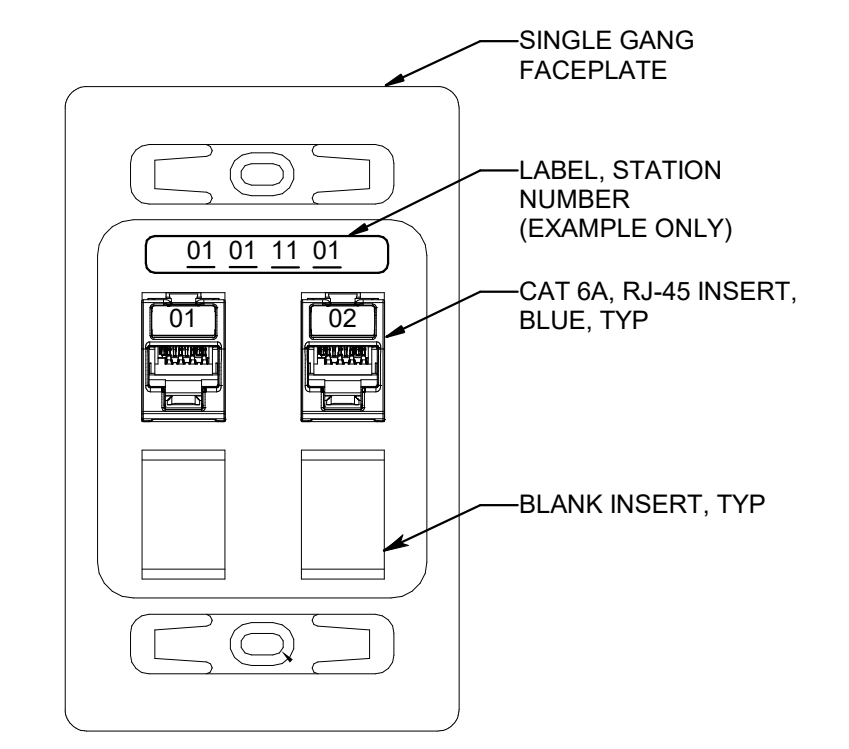
D5 TYPICAL VOICE-DATA OUTLET PINNING DETAIL
SCALE: NTS



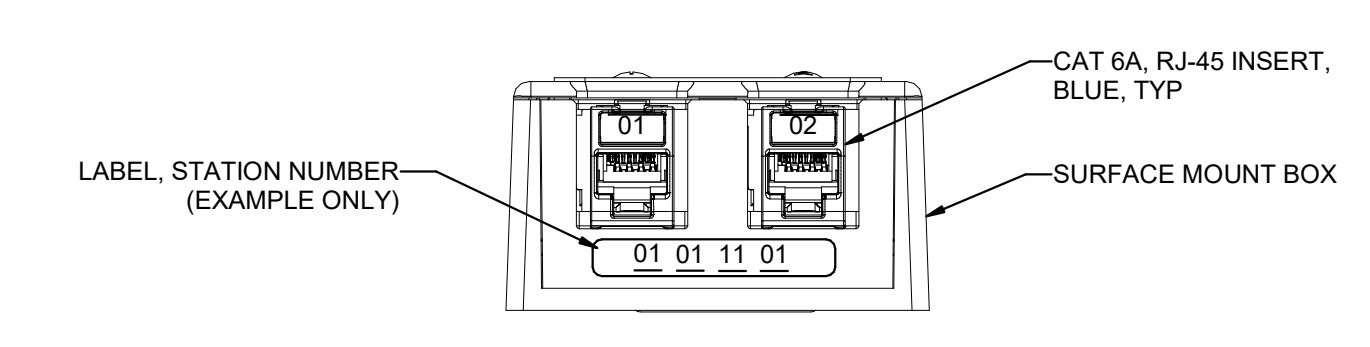
D6 TYPICAL 3-PORT WALL DATA OUTLET
SCALE: NTS



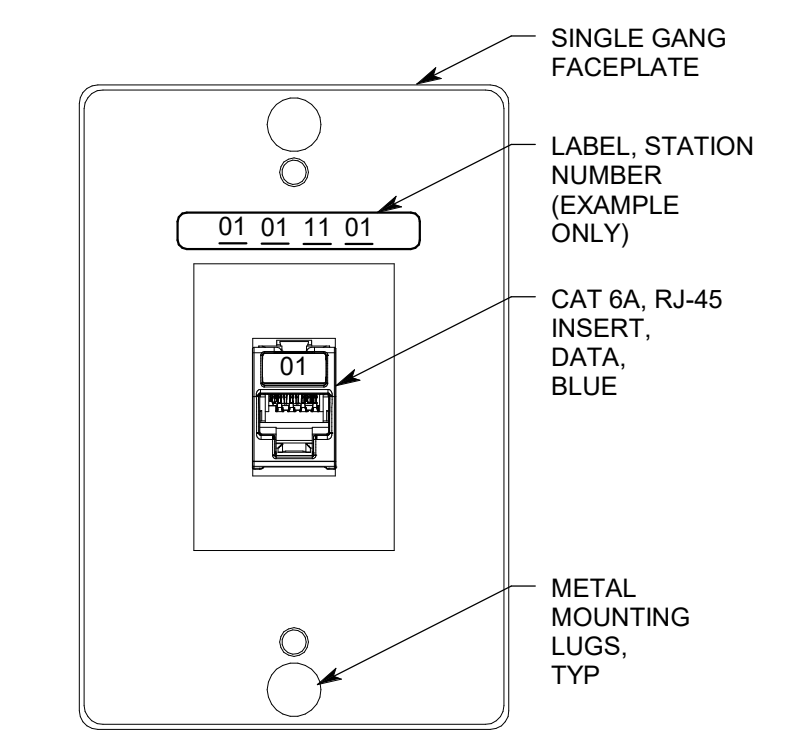
C5 TYPICAL 'WAP' CEILING DATA OUTLET
SCALE: 1/8" = 1'-0"



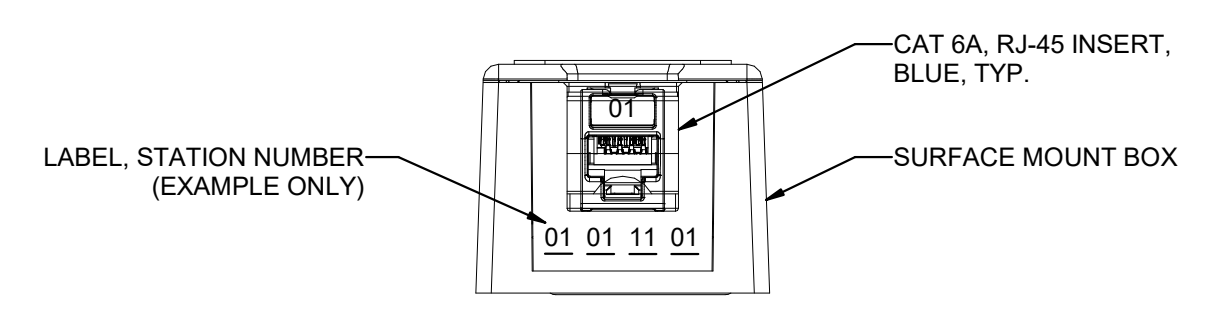
C6 TYPICAL 2-PORT WALL DATA OUTLET
SCALE: NTS



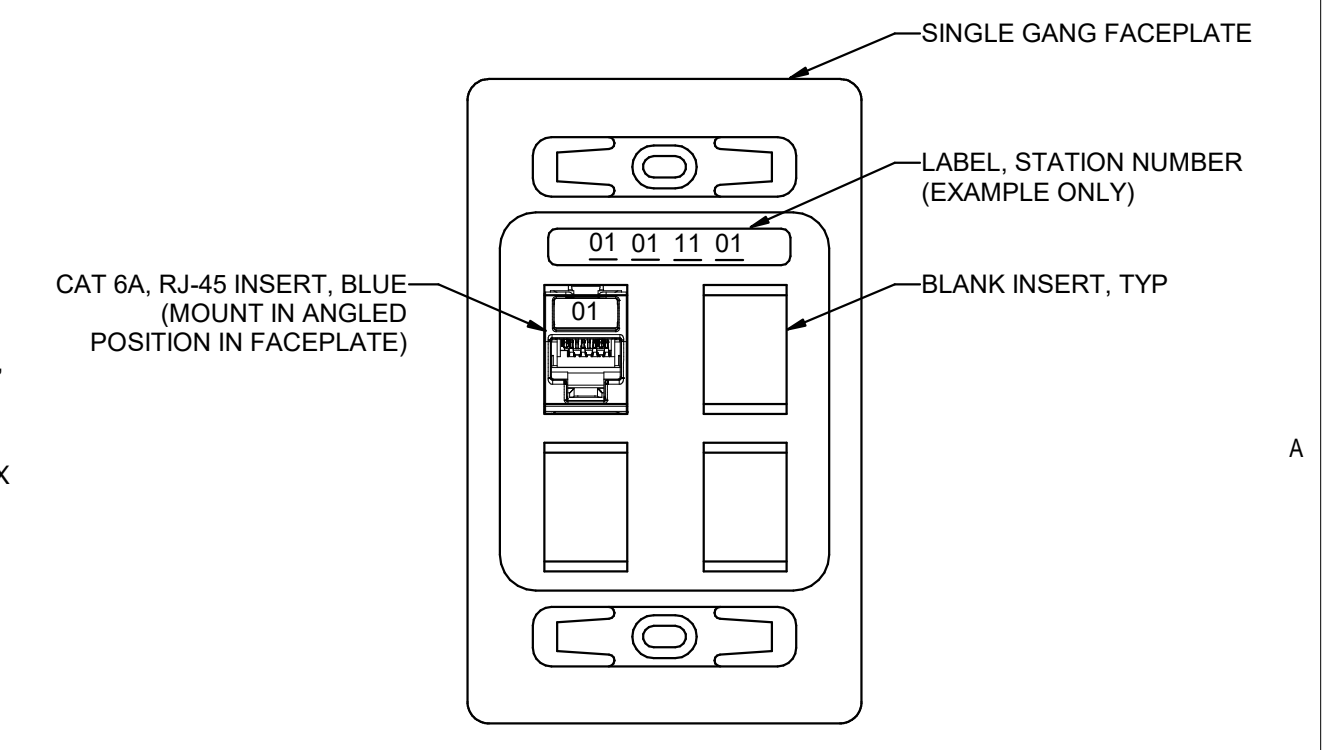
B5 TYPICAL 2-PORT CEILING DATA
SCALE: NTS



B6 TYPICAL 1-PORT WALL PHONE OUTLET
SCALE: NTS



A5 TYPICAL 1-PORT CAMERA DATA OUTLET
SCALE: NTS



A6 TYPICAL 1-PORT WALL DATA OUTLET
SCALE: NTS

REV	DATE	DESCRIPTION

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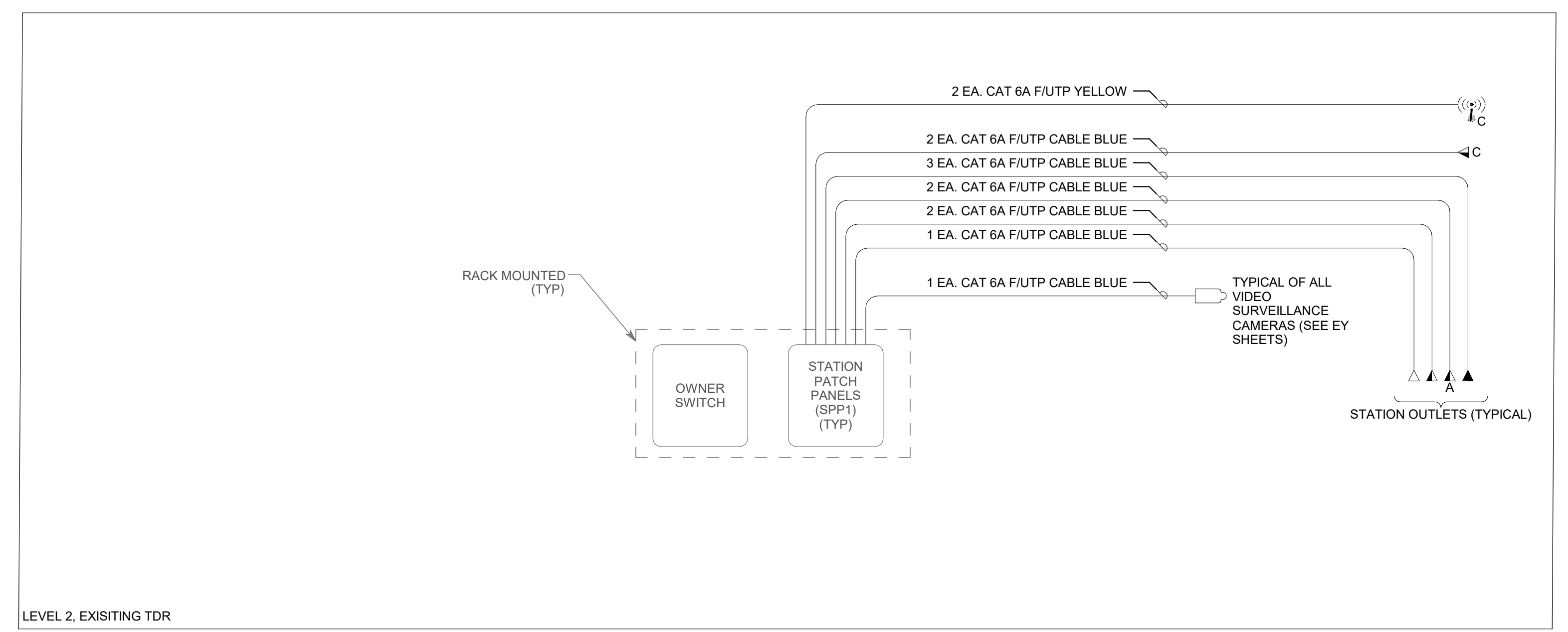
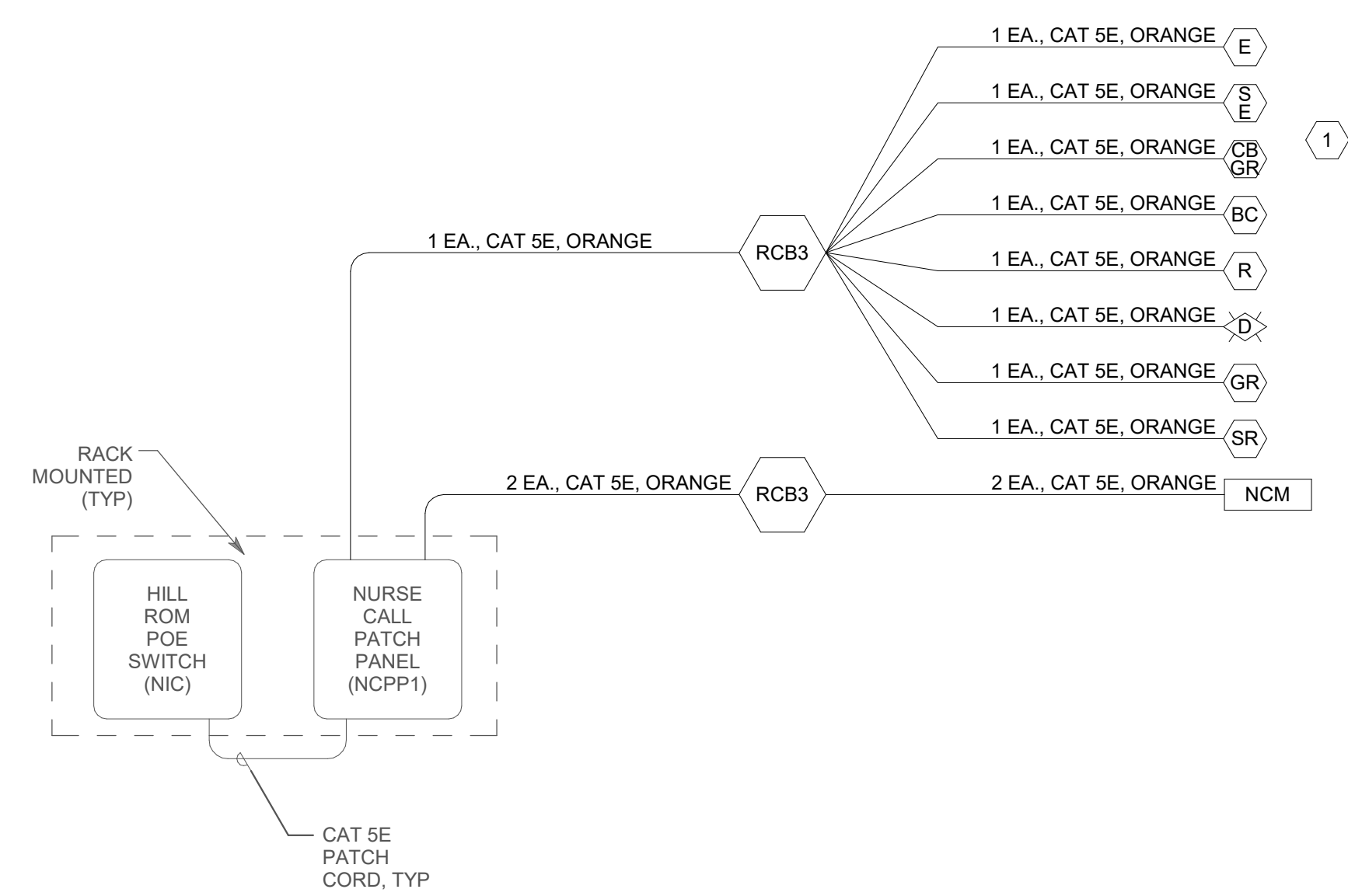
SHEET KEYNOTES

- SEE "EY" SHEETS FOR NURSE CALL LOCATIONS.



REV	DATE	DESCRIPTION
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VCBO NUMBER: 22305
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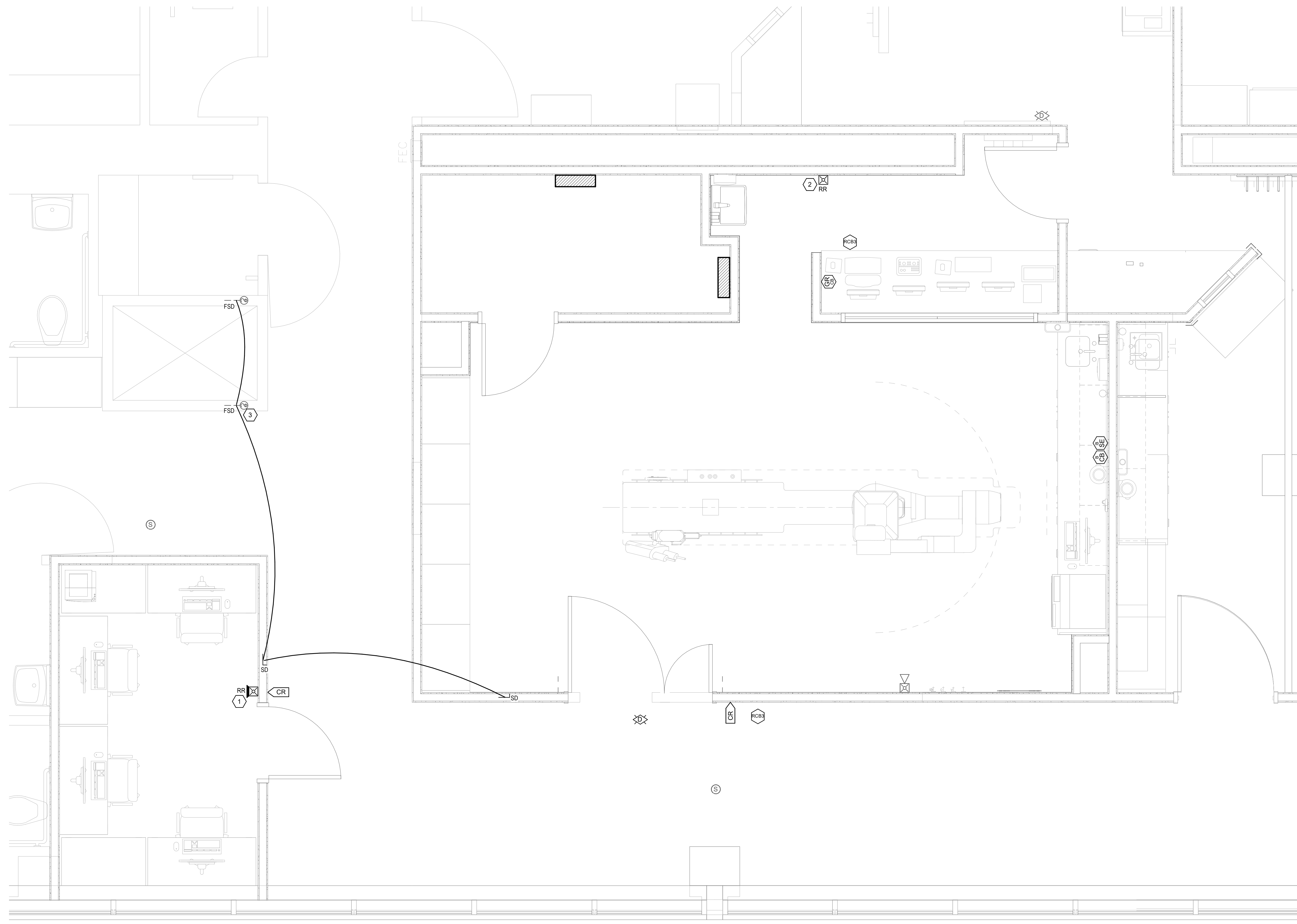
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IMED OP MULTI-PURPOSE IMAGING ROOM

INTERMOUNTAIN HEALTHCARE
5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
CONSTRUCTION DOCUMENTS

TELECOM RISER DIAGRAMS

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A1 LEVEL 2 - AUXILIARY PLAN

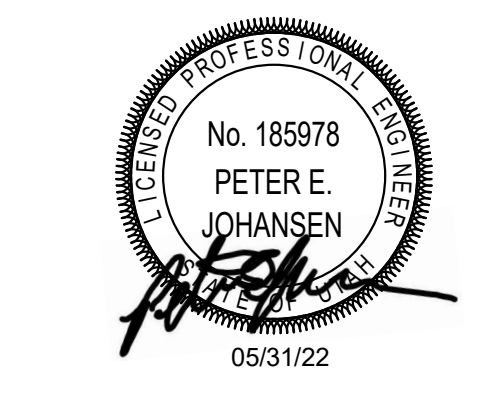
SCALE: 1/2" = 1'-0"

GENERAL SHEET NOTES

1 EXISTING FIRE ALARM SYSTEM IS SIEMENS.

SHEET KEYNOTES

- 1 RELOCATED FIRE ALARM SPEAKER STROBE FROM DEMOLISHED WORK ROOM, AND RECONNECT TO EXISTING INITIATING AND ANNUNCIATING CIRCUITS.
- 2 RELOCATE STROBE FROM DEMOLISHED TOILET ROOM, AND RECONNECT TO EXISTING ANNUNCIATING CIRCUIT.
- 3 CIRCUIT TWO NEW SMOKE DAMPERS TO EXISTING 120 VOLT CIRCUIT FEEDING EXISTING DAMPERS IN AREA.



REV	DATE	DESCRIPTION

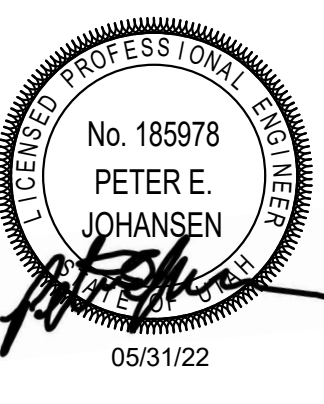
VCBO NUMBER: 22305
DATE: 05/31/2022

IMED OP MULTI-PURPOSE IMAGING ROOM

INTERMOUNTAIN HEALTHCARE
5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
CONSTRUCTION DOCUMENTS

NURSE CALL SYMBOL LIST

SYMBOL	MANUF.	PART #	DESCRIPTION	BACKBOX	BOX MOUNTING HEIGHT
	HILL-ROM	P2500NNC1B00	STAFF CONSOLE, DESK MOUNT	STEEL CITY 58371 34R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2594NNC3A00	STAFF CONSOLE, WALL MOUNT	STEEL CITY 58371 34R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2594NNC3B00	GRAPHICAL ANNUNCIATOR	STEEL CITY 58371 34R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2505NNC1B00	AUDIO STATION BED CONNECTOR (ASBC)	GARVIN 52181-34, WITH GARVIN 52C13 RING, OR ANY OTHER 4" SQUARE 3.5" DEEP BACK BOX WITH SINGLE GANG MUD RING.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2516A01	EQUIPMENT RECEPTACLE, WITH CALL CORD	STEEL CITY 58371 34R, RACO 561, OR ANY OTHER SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2506NNC1B00	DOME LIGHT, SINGLE LED	RACO 231, WITH RACO 778 RING, OR ANY OTHER 4" SQUARE 2 1/8" DEEP BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2506NNC8A00-D	ICON BASED-LIGHT LED DOME LIGHT	STEEL CITY CYLE-34, RACO 591, OR ANY OTHER 3.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2506NNC8A00-7	ICON BASED-LIGHT LED ZONE LIGHT	STEEL CITY CYLE-34, RACO 591, OR ANY OTHER 3.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2519NNC1A24	POE SWITCH		REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2520A07	CODE BLUE PUSH BUTTON SWITCH	RACO 561 BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2520A07	CODE PINK PUSH BUTTON SWITCH	RACO 561 BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2520A07	PUSH FOR ASSISTANCE PUSH BUTTON SWITCH	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2520A08	STAFF EMERGENCY PUSH BUTTON SWITCH	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2520B01	BATH SWITCH, W/CANCEL, SUPERVISED	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2520B02	BATH SWITCH, W/O CANCEL, SUPERVISED	RACO 561 BACK BOX, OR ANY OTHER 2.5" DEEP SINGLE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2521B02	UPS, RACK MOUNTABLE, 2U - NON-SEISMIC		REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2594NNC1B01	STAFF STATION - STANDARD ROOM STATION W/ CODE	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2594NNC1B01	STAFF STATION - STANDARD ROOM STATION W/O CODE	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2594NNC2C00	GRAPHICAL ROOM STATION (GRS) - STAFF	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2594NNC2C11	GRAPHICAL ROOM STATION (GRS) - PATIENT	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2594NNC4A10	REMOTE AUDIO DEVICE	STEEL CITY GW-225G, RACO 691 OR ANY OTHER 2.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	P2599NNC2A00	RCB2 ROOM CONTROL BOARD	STEEL CITY GW-235G, RACO 696 OR ANY OTHER 3.5" DEEP, TWO OR THREE GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	RTLS-CLOSED	RTLS - STAFF LOCATING LOCATION-CLOSED AREA	STEEL CITY GW-225G, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	RTLS-OPEN	RTLS - STAFF LOCATING LOCATION-GLASS/OPEN AREA	STEEL CITY GW-225G, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM	RTLS-BAY	RTLS - STAFF LOCATING LOCATION-BAY	STEEL CITY GW-225G, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ELEVATION DRAWINGS
	HILL-ROM		PILLOW SPEAKER, REQUIRES ASBC.		
	CURBELL	MAP985A	REMOTE ENTERTAINMENT STATION	STEEL CITY GW-225C, RACO 691 OR ANY OTHER TWO GANG BACK BOX.	REFER TO ELEVATION DRAWINGS



REV DATE DESCRIPTION

VCBO NUMBER: 22305
DATE: 05/31/2022

IMED OP MULTI-PURPOSE IMAGING ROOM
 INTERMOUNTAIN HEALTHCARE
 5125 SOUTH COTTONWOOD STREET, MURRAY UT 84107
 CONSTRUCTION DOCUMENTS

AUXILIARY DIAGRAMS & DETAILS
EY601