

**A5 LIFE SAFETY PLAN**  
1/16" = 1'-0"

**\*THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR. USE BLACK AND WHITE COPIES AT YOUR OWN RISK.**

## PARTITION GENERAL NOTES

- UNLESS NOTED OTHERWISE, ALL INTERIOR METAL STUDS ARE 3/8" THICK. REFER TO SURFIX SCHEDULE BELOW FOR LOCATIONS OF METAL STUDS OTHER THAN 3/8" THICK. NOTE: STUD THICKNESS (GAUGE) MUST CONFORM TO MANUFACTURER'S RECOMMENDATIONS FOR SPAN (HEIGHT OF STUD).
  - WHERE THE PARTITION TYPE INDICATION IS SHOWN WITH A NUMERICAL SUFFIX, THE METAL STUD THICKNESS SHALL BE AS SCHEDULED BELOW.
- | SUFFIX | MTL. STUD THICKNESS |
|--------|---------------------|
| 1      | 1-5/8" MTL. STUDS   |
| 2      | 2-1/2" MTL. STUDS   |
| 3      | 6" MTL. STUDS       |
- UNLESS NOTED OTHERWISE, ALL INTERIOR DRYWALL PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'A' PARTITIONS. WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.
  - UNLESS NOTED OTHERWISE, ALL INTERIOR MASONRY PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'B' PARTITIONS. WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.
  - ALL STUDS ARE CONTINUOUS FROM FLOOR STRUCTURE TO CEILING STRUCTURE UNLESS NOTED OTHERWISE.
  - METAL STUDS ARE SPACED @ 16" O.C. MAX., UNLESS NOTED OTHERWISE.
  - UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD IS TO BE 5/8" THICK "FIRECODE".
  - THE LOCATION OF A CHANGE IN THE PARTITION TYPE IS INDICATED BY A WALL TAG.
  - THE CORRESPONDING RATED ASSEMBLIES ARE INDICATED BELOW THE PARTITION TYPES.
  - PARTITION TYPE DESIGNATIONS ARE INDICATED ON THE FLOOR PLAN DRAWINGS.
  - PARTITION TYPES DO NOT INCLUDE APPLIED FINISHES CALLED FOR IN THE ROOM FINISH SCHEDULE.
  - AT PARTITION TYPES WHERE MTL. STUDS ARE EXPOSED ON ONE OR BOTH SIDES, CUT STUD 1/4" SHORT AND SCREW BOTH SIDES TO MTL. RUNNER TRACK.

## CODE SUMMARY

**Project Construction Purpose:** Hybrid OR and Surgery Department Renovation

**Project Address:**  
Saint Luke's Lee's Summit  
100 NW Saint Luke's Blvd  
Lee's Summit, MO 64063

**Code Information**  
2018 International Building Code  
2018 International Plumbing Code  
2018 International Mechanical Code  
2018 International Fuel Gas Code  
2018 International Fire Code  
2017 National Electrical Code  
2009 ICC/ANSI A117.1 as amended and adopted by the City of Lee's Summit

State of Missouri Dept. of Health & Environment references the following codes:  
2012 NFPA 101 Life Safety Code (LSC)  
2014 FGI Guidelines for Design & Construction of Hospitals & Outpatient Facilities

**Owner Information**  
Saint Luke's Lee's Summit  
100 NW Saint Luke's Blvd  
Lee's Summit, MO 64063

**Designer Information**  
ACI Boland Architects  
1710 Wyandotte St.  
Kansas City, MO 64108  
Phone: (816) 763-9600  
Fax: (816) 763-9757

**Local Authority**  
Responding Fire Service: Lee's Summit Fire Department  
Local Building Inspection: Lee's Summit, MO - Codes Administration Department

**Type of Construction:** Type 1-A - Section 602.2  
(Type 1 - 332 Sprinklered - Section 18.1.6.1)

**Area of Renovation:** 2080 +/- SF

**Occupancy Group:** I-2 - Section 308.3

**Occupant Load:** 100 gross Table 1004.5  
Total Square Footage: 2500 SF / 100 = 25 occupants total

**Required Fire Resistance Ratings (in hours)**  
Per NFPA 101 A.2.1.2.2:

Exterior Bearing Walls 3 HR  
Interior Bearing Walls 3 HR  
Primary Structural Frame 3 HR  
Floor Construction 2 HR  
Roof Construction 1 1/2 HR  
Interior non-bearing walls 0 HR

**Active Fire Safety Features:**

- Fire Alarm System - The fire alarm system is specified as an addressable type system. The device type and locations are per the applicable codes as well as AIA requirements.

- Smoke Control System - All ductwork penetrating smoke rated walls will have a smoke or combination fire/smoke damper as indicated on construction documents. These dampers will close upon detection of smoke by the area smoke detectors or duct smoke detectors in the air handling units.

- Fire Sprinkler System - Specified to be per NFPA 13.

The sprinkler heads are specified to be quick response type.

- Emergency Lighting and Power - Emergency lighting, life safety and critical loads will receive power from a backup generator located outside the main electrical room.

- Illuminated Exit Signs

**Passive Fire Safety Features:**

- Smoke Compartments no greater than 22,500 SF

## CODE FOOTPRINT LEGEND

PARTITION TYPES	
---	0 HR SMOKE PARTITION (SMOKE RESISTIVE)
---	1 HR SMOKE BARRIER
---	1 HR FIRE BARRIER
---	2 HR FIRE BARRIER
---	2 HR FIRE SMOKE BARRIER

AREA NOT IN SCOPE OF CONSTRUCTION

FIRE EXIT

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1600 Baltimore, Suite 300  
Kansas City, Missouri 64108  
T: 816.842.8437  
Licensee's Certificate of Authority Number:  
Missouri: #F001325536

**SLE HYBRID OR**  
**100 NE Saint Luke's Blvd**  
**Lee's Summit, MO 64086**

Date 5/31/2022  
Job Number 3-20034  
Drawn By BD  
Checked By AD

Revision  
Number Date Description  
2 07.13.22 ADD #2 - CITY

**A0.2**

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CODE FOOTPRINT PLAN

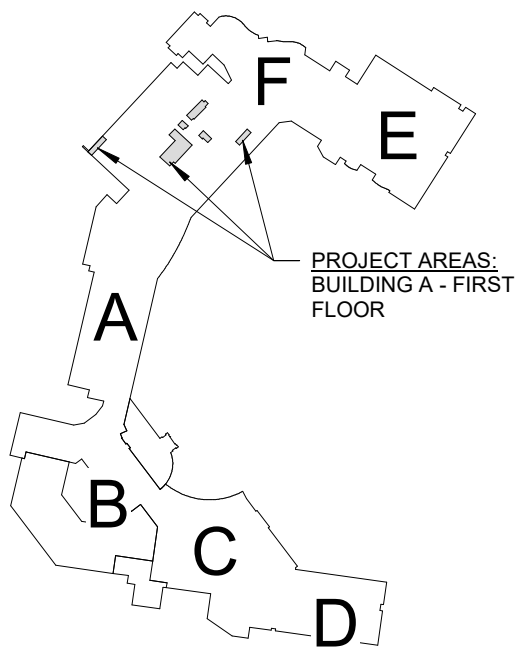








A3 OVERALL FLOOR PLAN  
1/8" = 1'-0"



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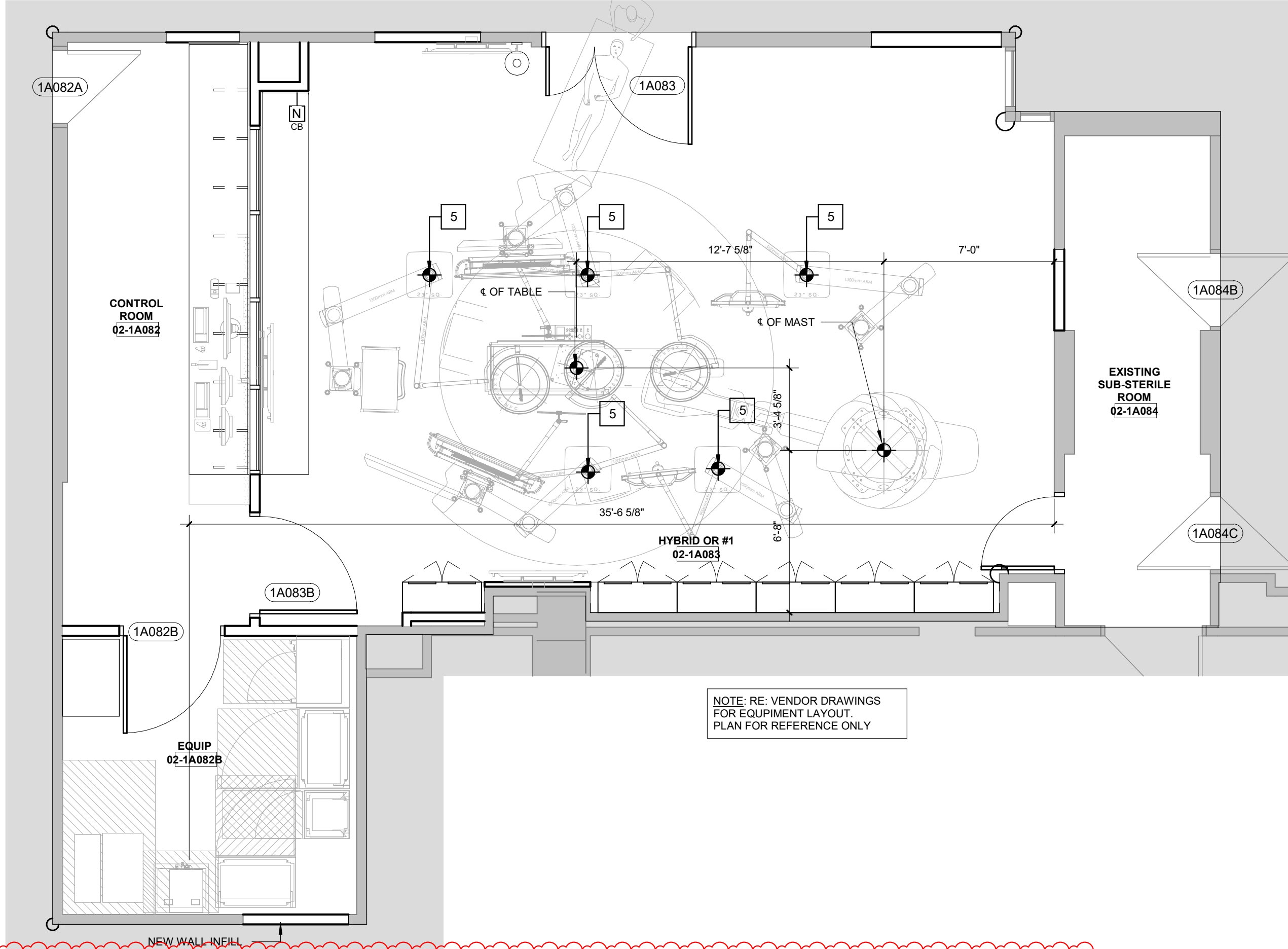
Revision  
NumberDateDescription  
207.13.22ADD #2 - CITY

A2.1

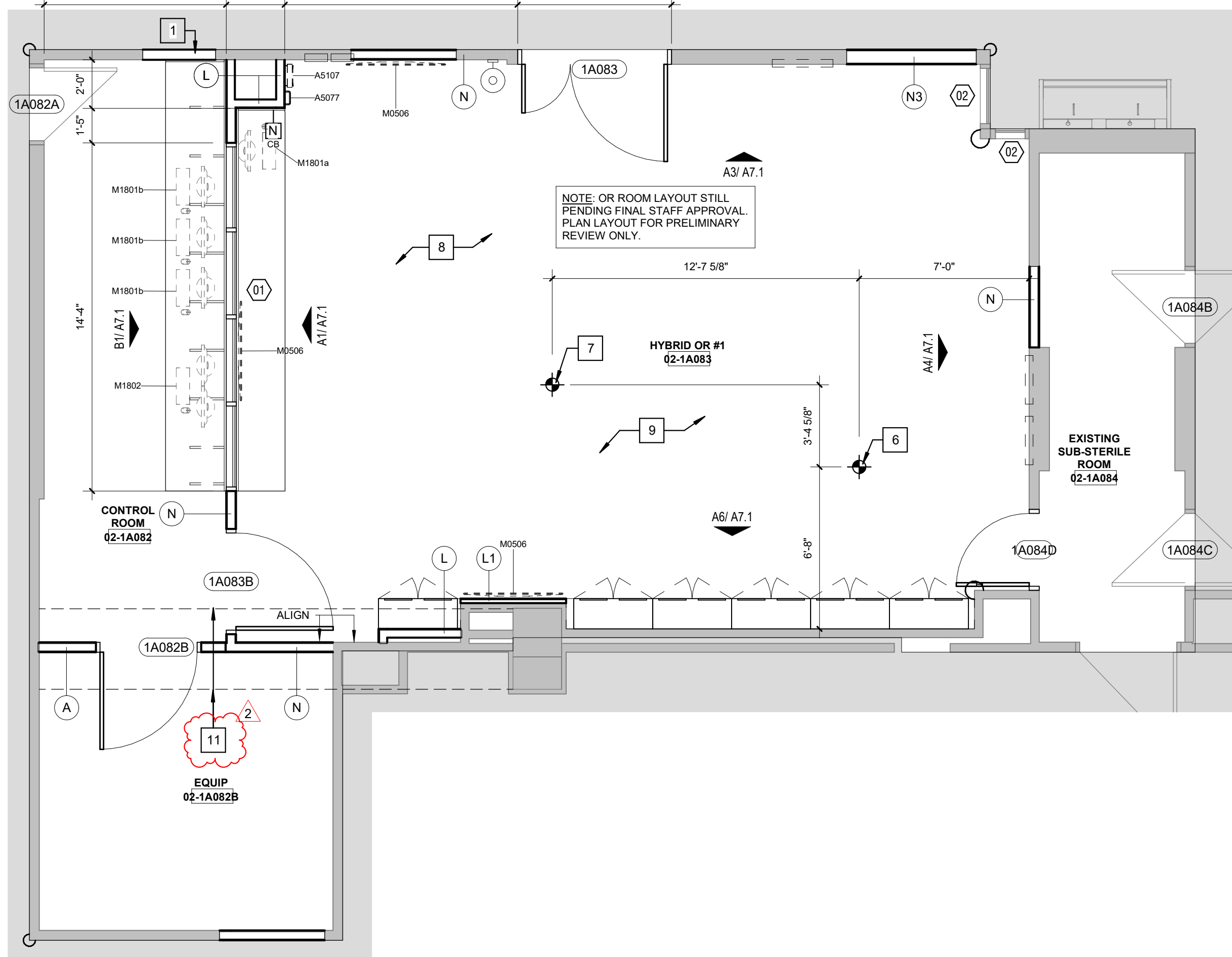
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FIRST FLOOR OVERALL PLAN



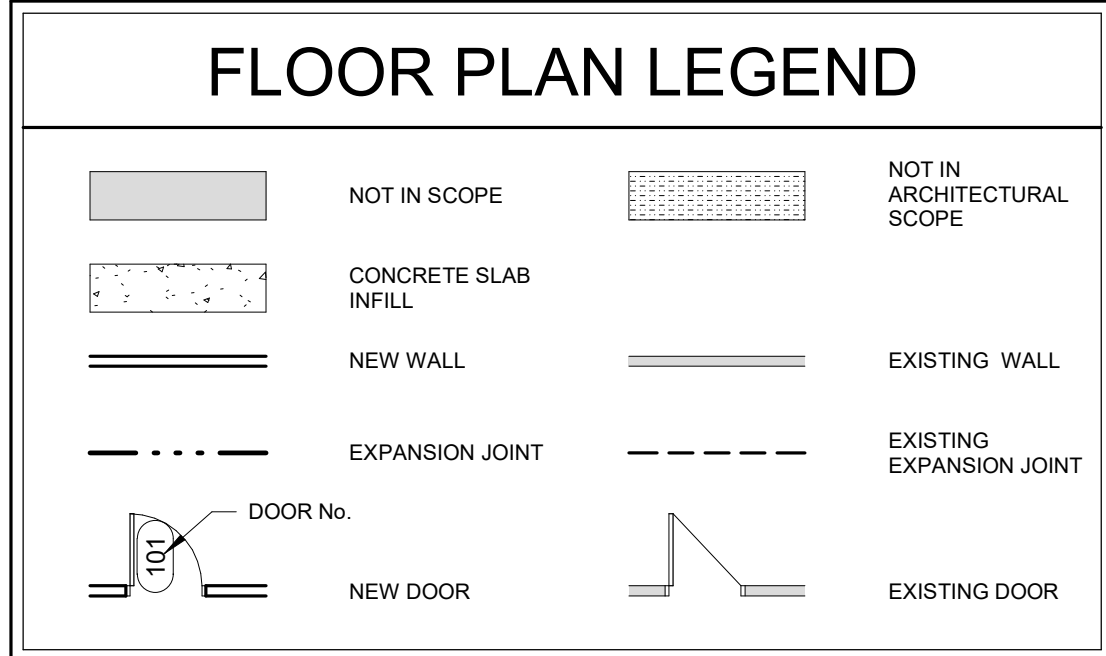
FFE SCHEDULE			
JSN	DESCRIPTION	RESPONSIBILITY	COMMENTS
A4015	LEICA CM MACHINE	VFVI	REINSTALLED FROM EXISTING OR
A5075	CLOCK	OFOI	
A5077	Dispenser, Hand Sanitizer	OFOI	
A5082	PAPER TOWEL DISPENSER	OFOI	
A5107	GLOVE BOX	OFOI	
E0222	48" WORK STATION WITH UPPER CABINETS	VFCI	BY J.A. MARSHALL
E0963	CART	OFOI	
F0205	SIDE CHAIR, W/ ARMS	OFOI	BY J.A. MARSHALL
F0300	CHAIR, TASK, SWIVEL, W/ ARMS	VFVI	BY J.A. MARSHALL
F0415	42"W FILE CABINET	VFVI	BY J.A. MARSHALL
F0740	SIDE TABLE	OFOI	
M2055	Monitor, Television	OFOI	
M1801a	COMPUTER MONITOR	OFOI	POWER & DATA REQUIRED
M1801b	COMPUTER MONITOR	VFVI	POWER & DATA REQUIRED
M1802	DUAL COMPUTER MONITOR W/ KEYBOARD AND MOUSE	VFVI	POWER & DATA REQUIRED
M2055	WIRE SHELVING, 60"Wx24"Dx68"H	OFOI	
M8820	STAINLESS STEEL TABLE, 24"Wx48"Lx44"	OFOI	
U1001	SHOULDER POSITIONER	OFOI	
U1002	OPHTHALMOLOGY LIGHT	OFOI	
U1003	LIPRODUCTION TOWER	OFOI	
U1004	ALLY UTERINE POSITIONER	OFOI	
U1005	MINI CARM	OFOI	
U1006	PNEUMATIC TOURNIQUET	OFOI	
U1007	SPARGO ULTRASOUND	OFOI	
U1008	MOBILE MONITOR CART	OFOI	
U1009	AQUILEY FLUID CONTROL SYSTEM	OFOI	
U1010	STERIS SURGICAL TABLE	OFOI	
U1011	VERSANA PREMIER ULTRASOUND UNIT	OFOI	
U1012	ORTHO GLASS CART	OFOI	
U1013	MEDTRONIC IPC	OFOI	
U1014	MIZUHOSI POSITIONER	OFOI	
U1015	LEICA MICROSCOPE	OFOI	
U1016	STRYKER SPY PH TOWER	OFOI	
U1017	TRIDENT TOWER	OFOI	
U1018	OLYMPUS SHOCK-PULSE UNIT	OFOI	
U1019	AQUAMANTYS SYSTEM	OFOI	
U1020	BACK TABLE	OFOI	
U1021	OLYMPIC PLASMA BUTTON TOWER	OFOI	
U1022	CAUTERY CART	OFOI	
U1023	NOVAASURE TOWER	OFOI	
U1024	FUSION ENT NAVIGATION TOWER	OFOI	
U1025	ARTHREX TOWER SYSTEM	OFOI	
U1026	NIM RESPONSE CART	OFOI	
U1027	BERKLEY SUCTION DMC MACHINE	OFOI	
U1028	STEPPER POSITIONER	OFOI	
U1029	FLAT PLATE XRAY	OFOI	
U1030	POSITIONER (TENANT)	OFOI	
U1031	CELL SAVER CART	OFOI	
U1032	WALL HOOKS	OFOI	BLOCKING REQUIRED
U1033	BIOHAZARD BOX	OFOI	
U1034	LEICA CM MACHINE	OFOI	
U1035	FLAMMABLE BOX	OFOI	



C5 HYBRID OR EQUIPMENT PLAN  
1/4" = 1'-0"



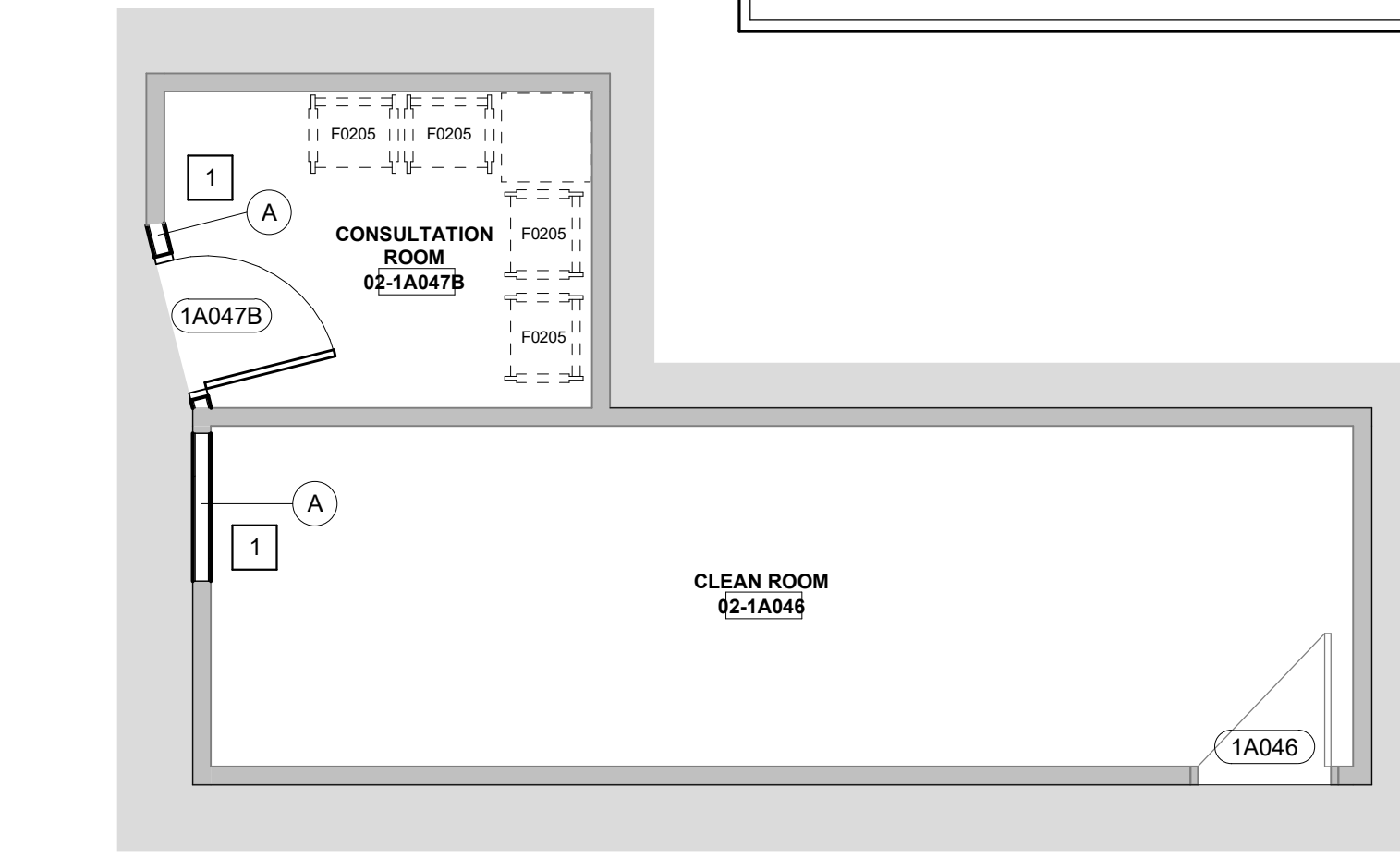
A5 HYBRID OR PLAN 1A083  
1/4" = 1'-0"



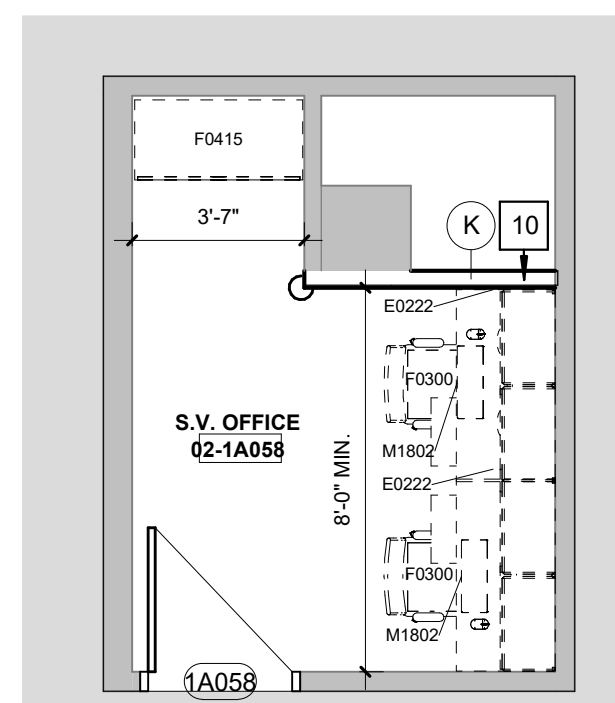
#	KEYNOTES - FLOOR PLAN
1	INFL. EXISTING OPENING WITH NEW CONSTRUCTION TO MATCH ADJACENT WALL THICKNESS, FIRE RATING, AND FINISH.
2	APPLY BLACKOUT FILM OVER EXISTING WINDOW.
3	INSTALL FIRE RATED BACKING FOR WALL HUNG EQUIPMENT AS DIRECTED BY STAFF.
4	STORAGE ROOM EQUIPMENT AND SHELVING TO BE LOCATED BY STAFF. LAYOUT ON PLAN IS NOT FINAL.
5	ISO CENTER OF ROOM. RE: RCP, AND VENDOR DRAWINGS FOR FINAL LOCATION.
6	ISO CENTER OF MAST. RE: VENDOR DRAWINGS FOR FINAL LOCATION OF NEW HYBRID OR EQUIPMENT.
7	ISO CENTER OF TABLE. RE: VENDOR DRAWINGS FOR FINAL LOCATION OF NEW HYBRID OR EQUIPMENT.
8	EXISTING WALLS TO RECEIVE 1/16" LEAD LINING. REMOVE EXISTING WALL FINISH AS NEEDED AND REPLACE WITH NEW GYP AND FINISHES.
9	LOCATE NEW WALL TIGHT TO EXISTING COLUMN - 8'-0" MIN. CLEARANCE REQUIRED TO COORDINATE WITH NEW WORKSTATION.
10	LOCATE NEW WALL TIGHT TO EXISTING COLUMN - 8'-0" MIN. CLEARANCE REQUIRED TO COORDINATE WITH NEW WORKSTATION.
11	CORE A MAXIMUM OF 12" DIAMETER HOLE THROUGH THE MID-DEPTH OF THE GRADE BEAM. LOCATED NEAR MID-SPAN OF THE GRADE BEAM. THE GRADE BEAM IS 24" WIDE AND 30" DEEP. THE TOP OF GRADE BEAM IS 8" BELOW SLAB-ON-GRADE. MULTIPLE CONDUITS CAN RUN THROUGH THIS 12" CORE. IF ADDITIONAL CORE IS REQUIRED, FOLLOW THE SAME PROCEDURE. THE 2ND CORE NEEDS TO BE AT LEAST 2' AWAY FROM THE FIRST CORE (2' CLEAR).

## GENERAL PLAN NOTES

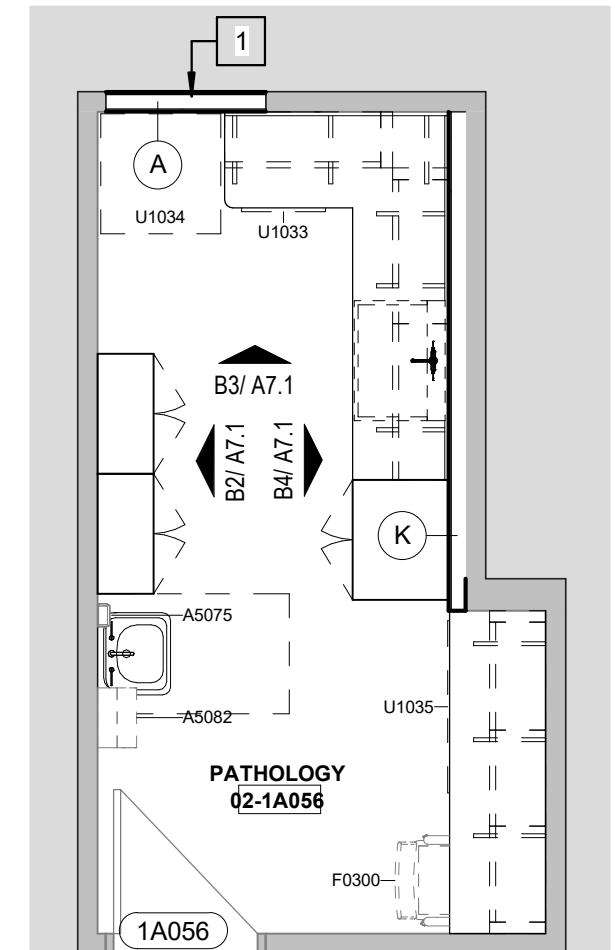
- REFER TO GENERAL NOTES, LEGENDS & SYMBOLS SHEET FOR ADDITIONAL GENERAL NOTES AS APPLICABLE.
- DO NOT SCALE DRAWINGS.
- THE WORD "ALIGN" AS USED IN THESE DOCUMENTS SHALL SUPERSEDE ANY DIMENSIONAL INFORMATION GIVEN.
- TYPICAL DIMENSIONS ARE TO FACE OF CONCRETE, DRYWALL, CURTAIN WALL, ETC., OR TO COLUMN CENTERLINE. DIMENSIONS AT WINDOWS ARE TYPICALLY TO FACE OF FRAME. REFER TO PLAN DETAILS FOR ADDITIONAL INFORMATION.
- IF MATERIAL SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY ARCHITECT AND OWNER. OWNER SHALL COORDINATE WITH CONTRACTOR ON THE REMOVAL OF SUCH ITEMS. WORK MAY PROCEED AFTER HAZARDOUS MATERIAL HAS BEEN REMOVED.
- CONTRACTOR SHALL FURNISH AND INSTALL CONCEALED FIRE-TREATED WOOD BLOCKING BEHIND ALL CABINETS, TOILET ACCESSORIES, PLUMBING FIXTURES, AND OTHER WALL MOUNTED ITEMS AS REQUIRED FOR ADEQUATE SUPPORT.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING PERMITS.
- THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES OR DISCREPANCIES WITH THE PROJECT DOCUMENTS. ACCESS TO THE SITE AND/OR SPACE UNDER CONSTRUCTION DURING BIDDING AND CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. THE SUBSTRATE SHALL BE SMOOTH AND FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS' RECOMMENDATIONS.
- CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MEET AND COMPLETE THE REQUIREMENTS OF THE NEW CONSTRUCTION.
- ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED, REPAIRED, AND PREP AS REQUIRED FOR NEW FINISH APPLICATION.
- DO NOT CLOSE OR OBSTRUCT WALKWAYS, EXITS, OR OTHER FACILITIES USED BY OCCUPANTS OF BUILDINGS WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION.
- CONDUCT ALL OPERATIONS IN A SAFE WORKING MANNER TO PREVENT DAMAGE OR INJURY TO ADJACENT SPACES, BUILDINGS, STRUCTURE, OTHER FACILITIES, AND PERSONS.
- SEE FINISH SCHEDULE FOR FINISH LOCATION AND SPECIFICATIONS.
- SEE DOOR SCHEDULE FOR DOOR SPECIFICATIONS.



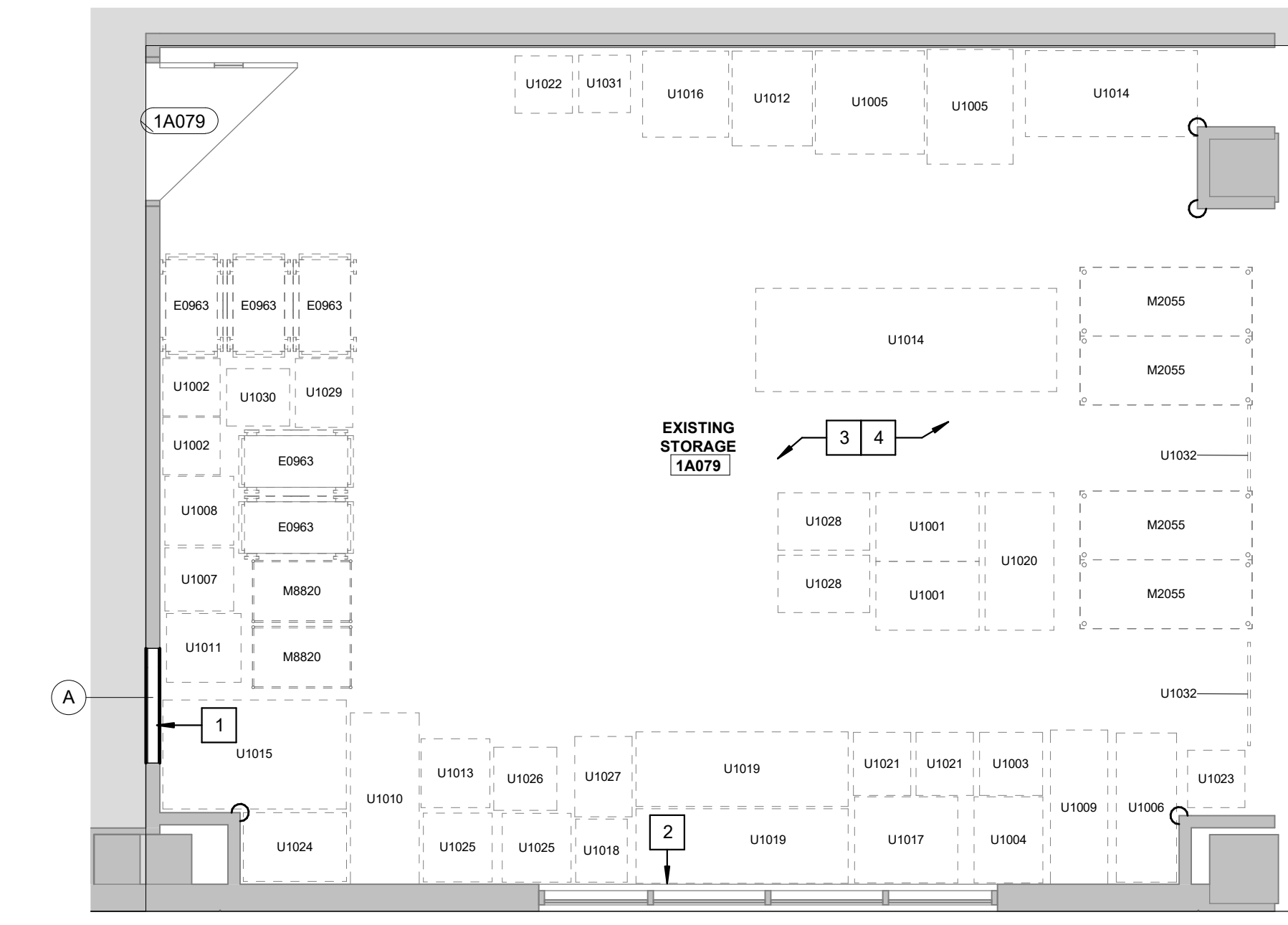
C2 CLEAN ROOM AND CONSULTATION ROOM  
1/4" = 1'-0"



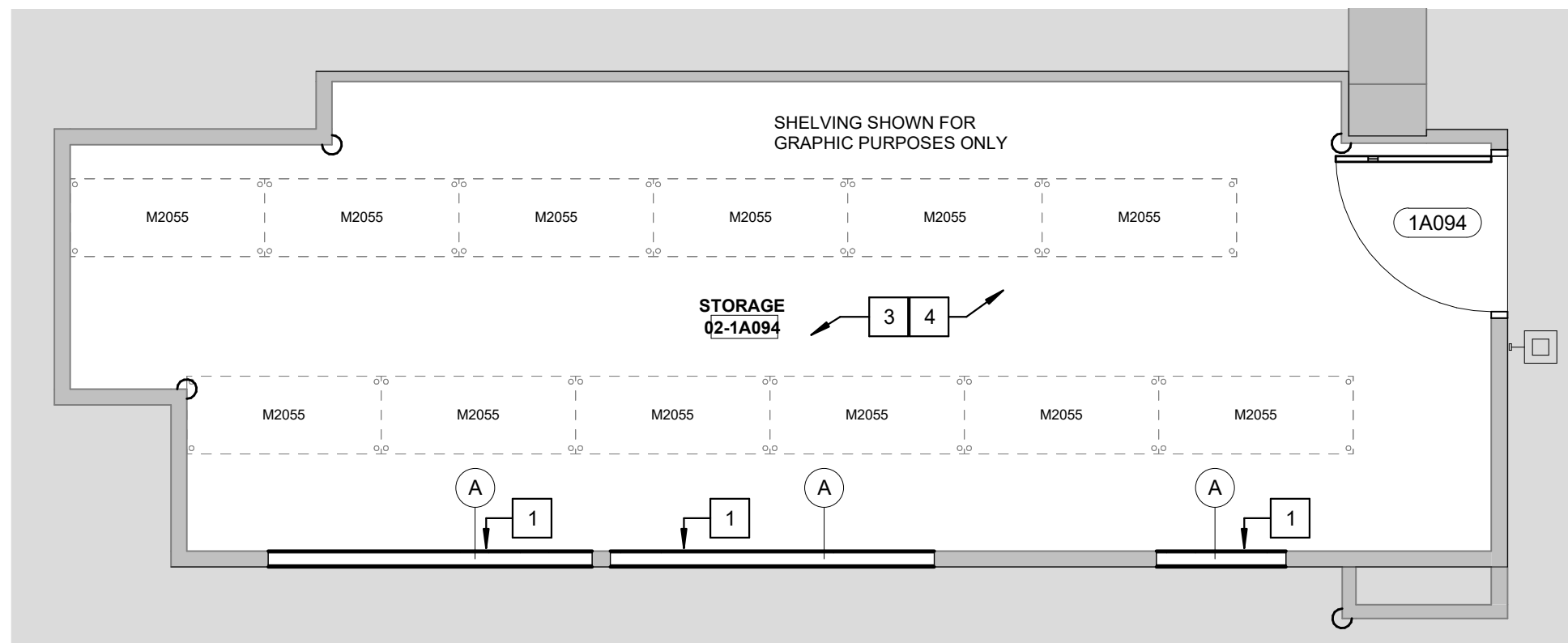
B3 S.V. OFFICE 02-1A056  
1/4" = 1'-0"



A3 PATHOLOGY ROOM 1A056  
1/4" = 1'-0"



B2 EXISTING STORAGE 1A079  
1/4" = 1'-0"



A2 STORAGE 1A094  
1/4" = 1'-0"

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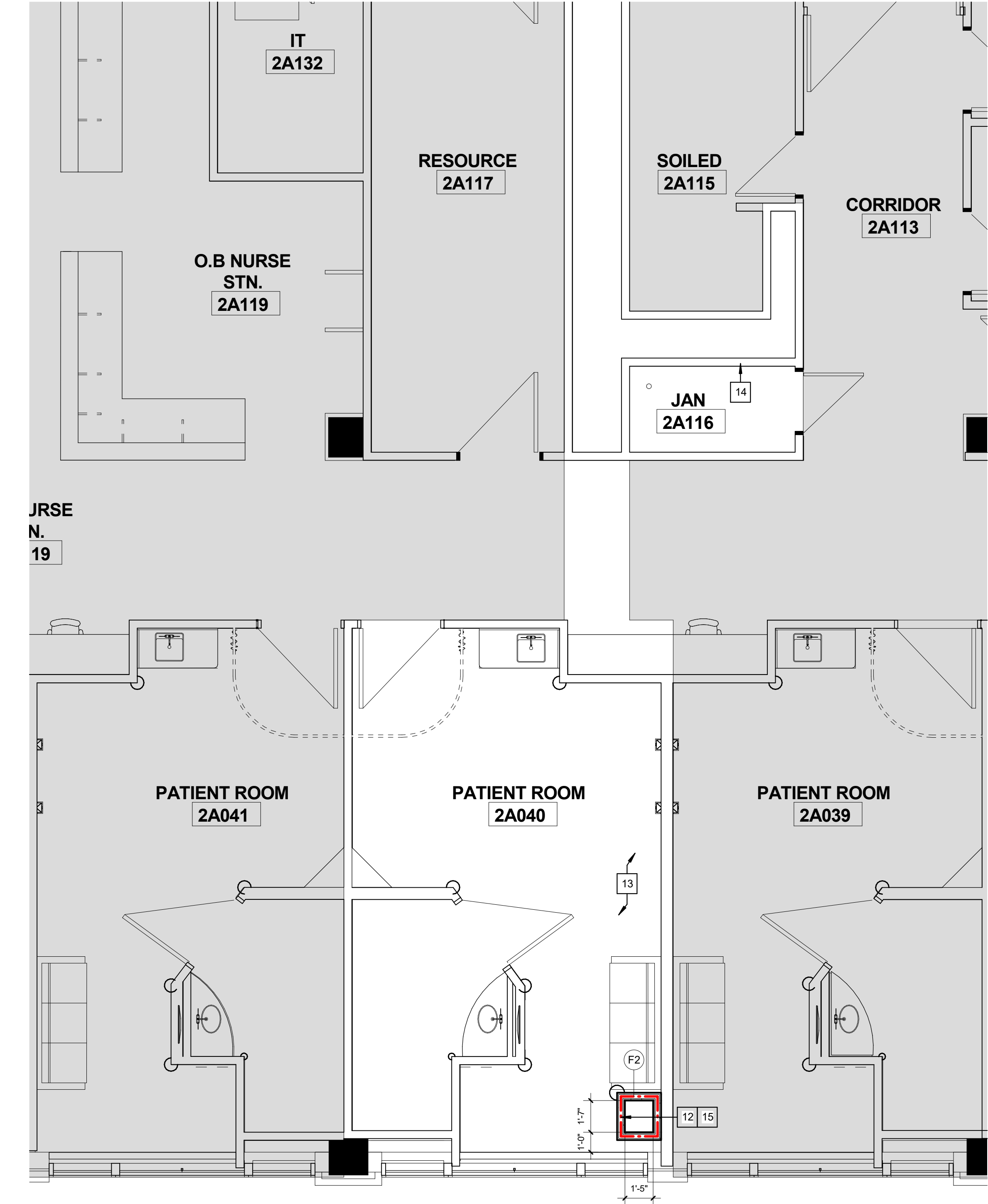
Date 5/31/2022  
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Drawn By Author  
Checked By Checker

Revision  
Number Date Description  
2 07.13.22 ADD #2 - CITY

A2.2  
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ENLARGED PLANS



KEYNOTES - 2ND FLOOR PLAN	
NUMBER	COMMENTS
12	1-1/2" RATED CHASE AROUND NEW MECH DUCT. COORDINATE SIZE WITH MECH DRAWINGS. PROVIDE WALL PROTECTION, PAINT, AND BASE TO MATCH EXISTING ROOM FINISHES.
13	REMOVE AND REINSTALL PORTION OF CEILING TO COORDINATE WITH NEW MECH DUCT, REF. MECH PLANS.
14	CUT AND PATCH PORTION OF EXISTING JANITOR WALL TO INSTALL NEW MECH. DUCT, REF. MECH FOR SIZE AND LOCATION.
15	NEW OPENING IN CONCRETE FLOOR TO BE 1/2" LARGER AT ALL SIDES THAN NEW DUCT SIZE PRIOR TO CUTTING THE OPENING. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING BEAMS AND JOISTS. THE OPENING MUST MISS THE EXISTING BEAMS AND JOISTS. THE OPENING MUST BE CUT NEATLY, OVERCUTTING THE OPENING AND/OR SAW OVERRUNNING AT THE CORNERS ARE NOT ACCEPTABLE.



A1 SECOND FLOOR PLAN  
1/4" = 1'-0"

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SLE HYBRID OR  
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Lee's Summit, MO 64086

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Revision		
Number	Date	Description
2	07.13.22	ADD #2 - CITY

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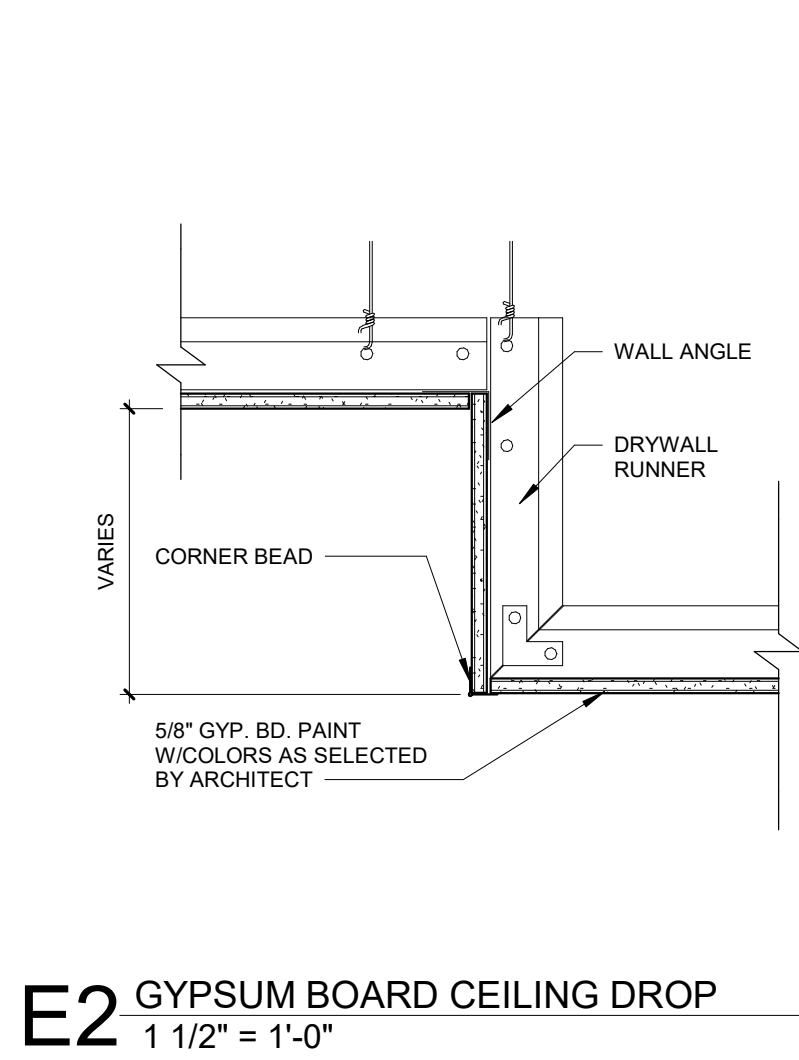
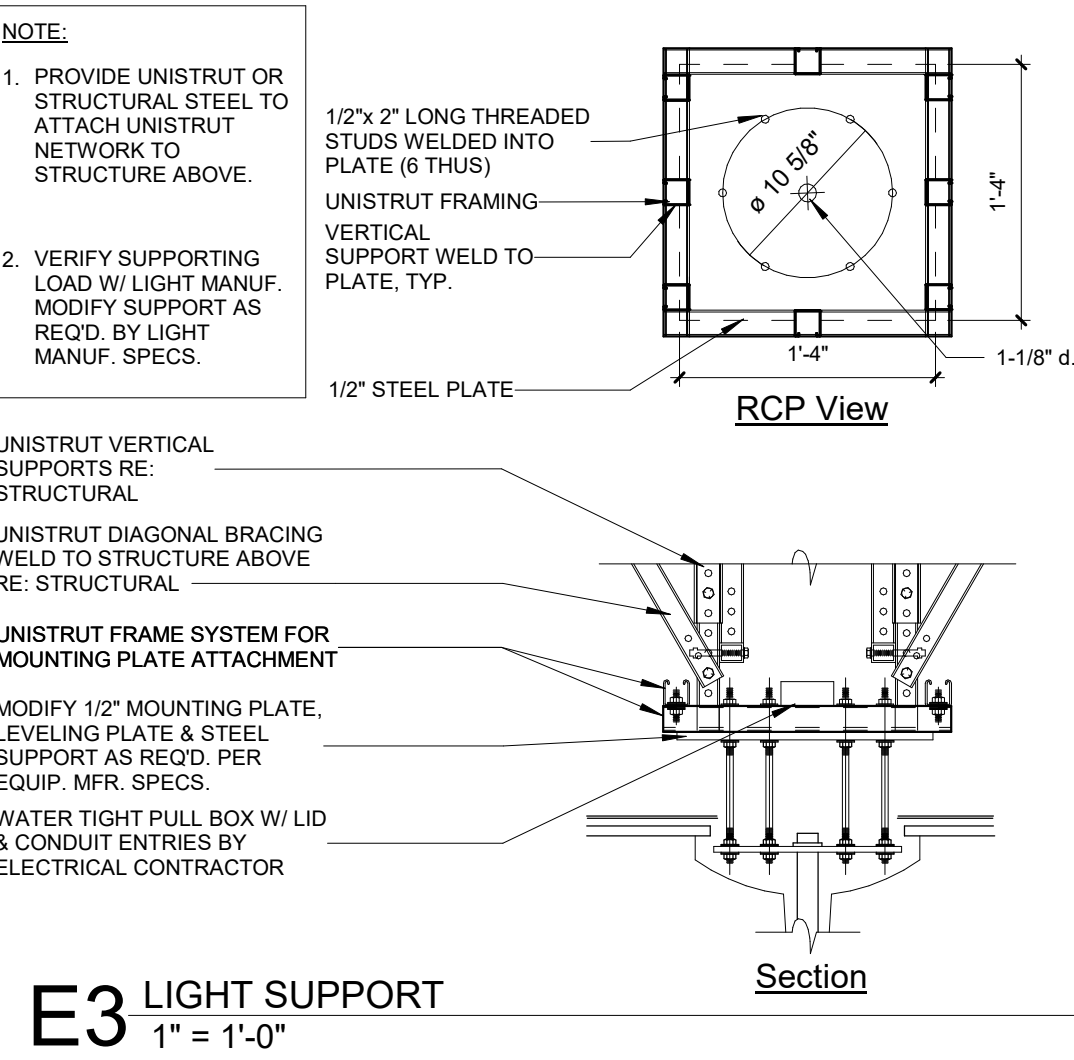
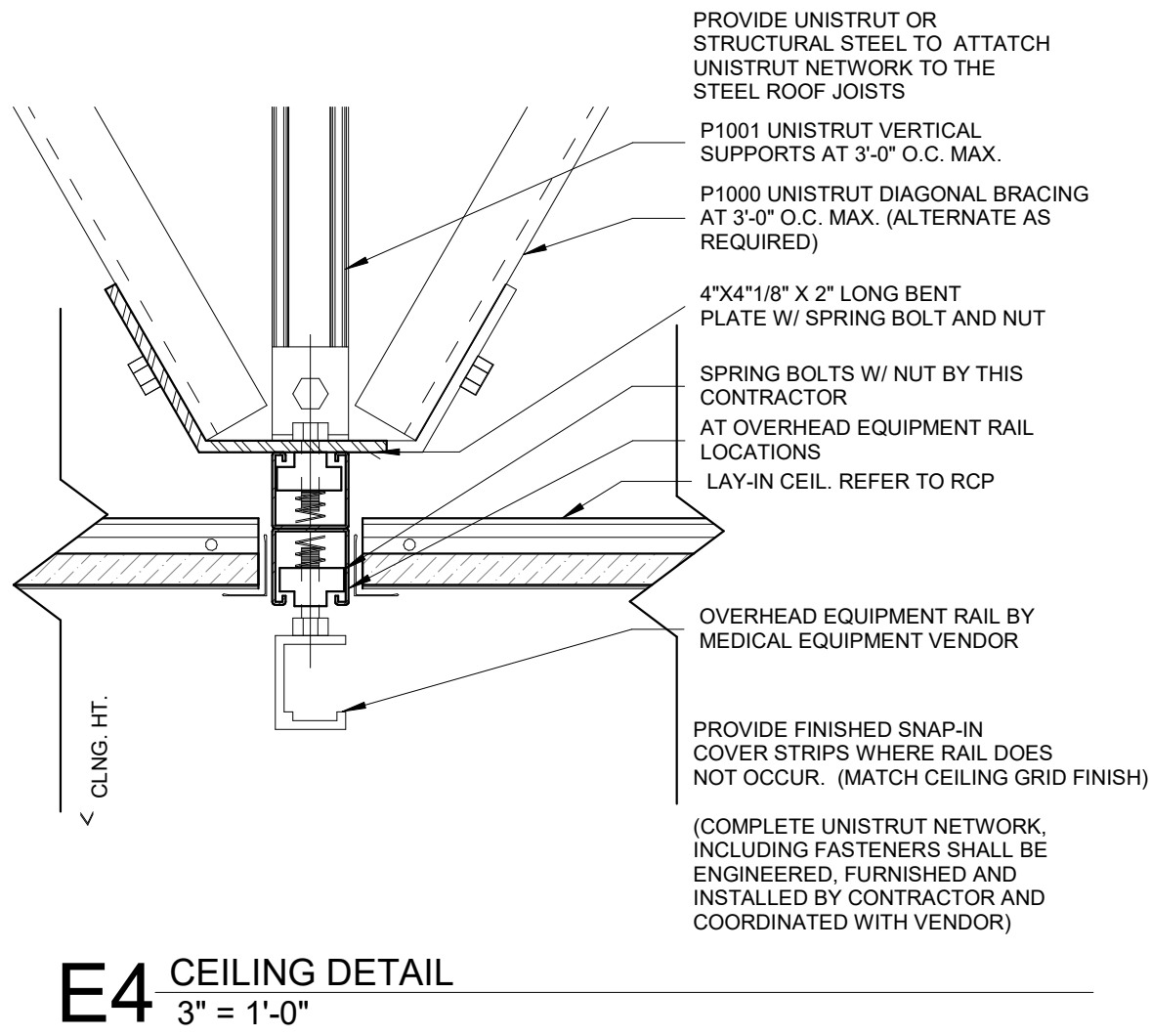
A2.3

2ND FLOOR PLANS



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## REFLECTED CEILING NOTES

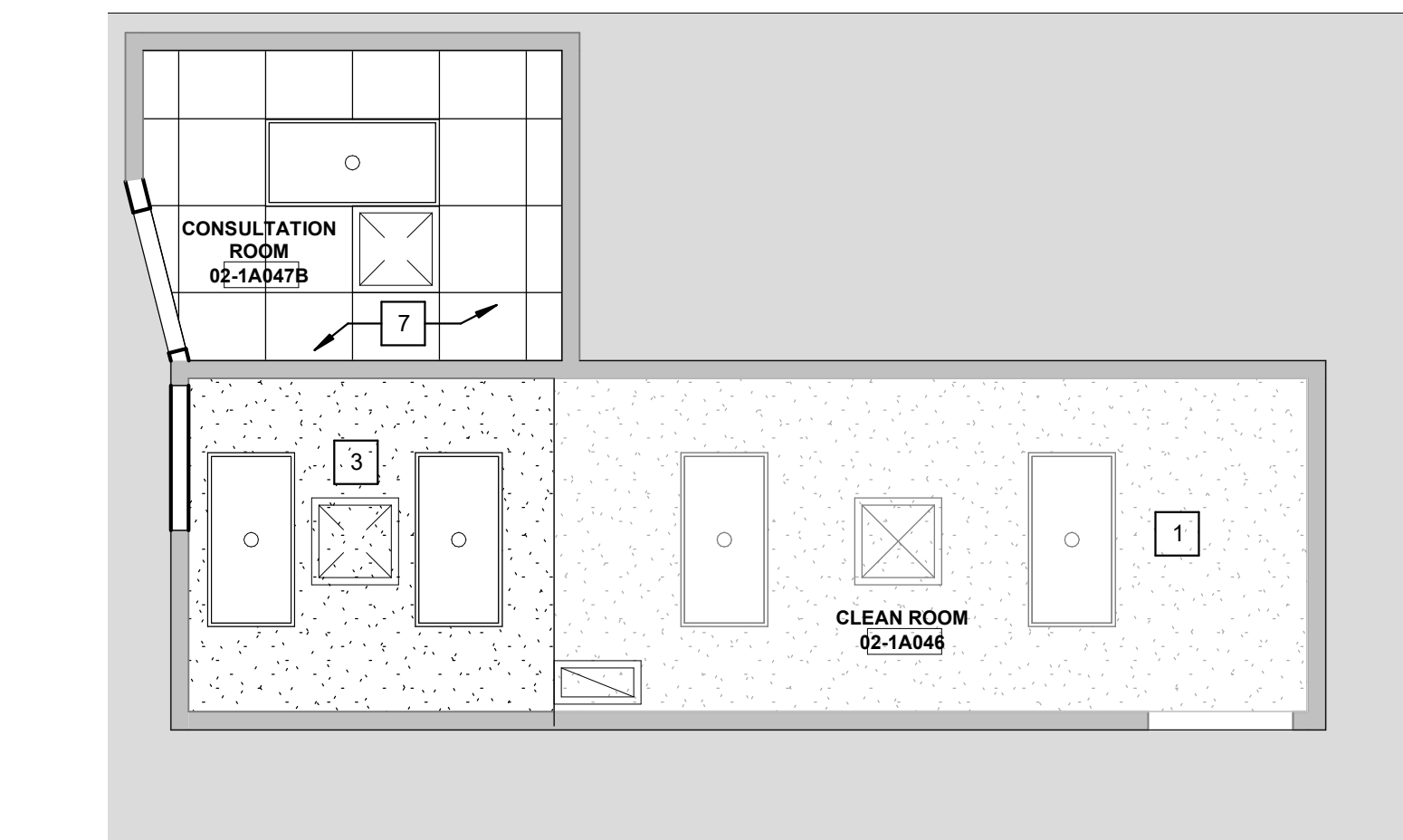
1. EXISTING MEPPF DEVICES SHOWN ARE BASED ON EXISTING DRAWINGS AND/OR FIELD OBSERVATIONS. THE OWNER/ARCHITECT DOES NOT GUARANTEE THE ACCURACY/LOCATION OR QUANTITY OF EXISTING DEVICES.
2. CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MEET AND COMPLETE THE REQUIREMENTS OF THE NEW CONSTRUCTION.
3. ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED, REPAIRED, AND PREP AS REQUIRED FOR NEW FINISH APPLICATION.
4. SEE FINISH SCHEDULE FOR FINISH LOCATION AND SPECIFICATIONS.
5. THIS PLAN SHALL BE USED TO COORDINATE THE CEILING LAYOUT WITH MECHANICAL AND ELECTRICAL WORK. VERIFY THE EXACT QUANTITY REQUIRED.
6. CONTRACTOR TO REFER TO THE ELECTRICAL PLANS FOR ACTUAL LIGHTING SIZES AND FIXTURE TYPES.
7. SEE SPECIFICATIONS FOR CEILING TYPES.
8. REFER TO ARCHITECTURAL FLOOR PLANS FOR MATERIAL LEGEND OF ALL TYPES.
9. ALL CEILINGS SHALL BE 9'-0" AFF UNLESS OTHERWISE NOTED.

## CEILING LEGEND

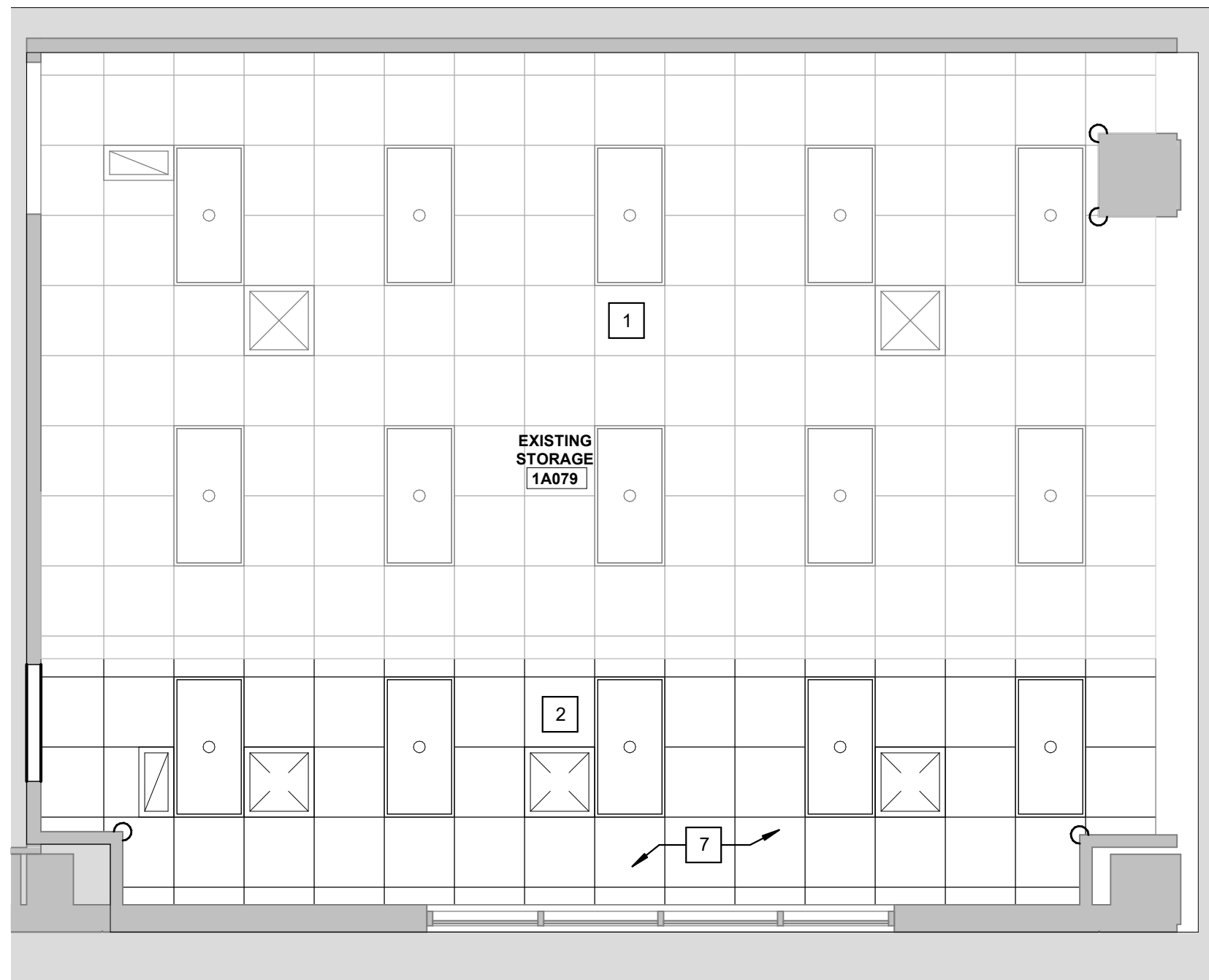
- RECESSED CAN LIGHT FIXTURE RE: ELECT
- 2X4 RECESSED/SURFACE LED LIGHT FIXTURE RE: ELECT
- 2X2 RECESSED/SURFACE FLUORESCENT LIGHT FIXTURE RE: ELECT
- ▨ 2X2/24 LAY-IN ACOUSTICAL CEILING
- ☒ SUPPLY AIR GRILLE RE: MECH
- ☑ RETURN AIR OR EXHAUST GRILLE RE: MECH
- 9'-0" SOFFIT HEIGHT
- 9'-0" CEILING HEIGHT

## KEYNOTES - RCP

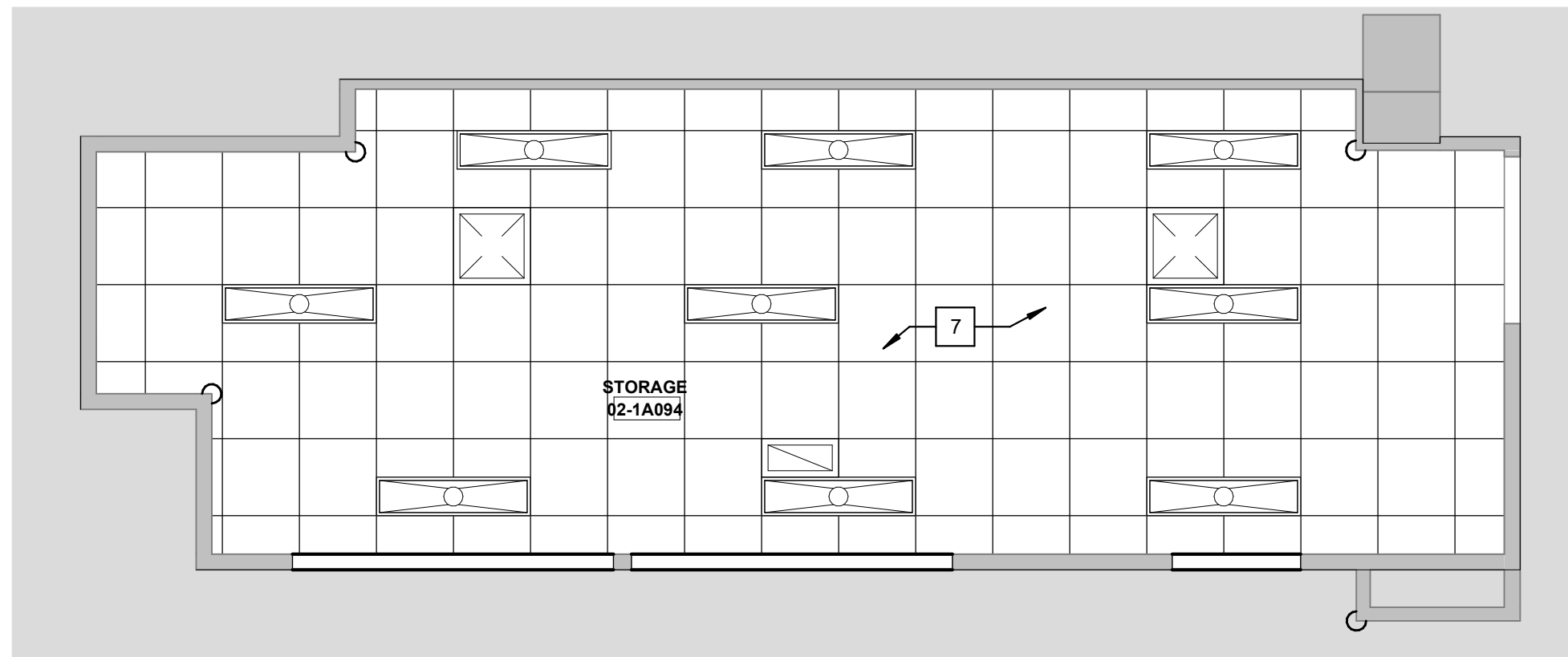
Number	Comments
1	EXISTING CEILING TO REMAIN
2	TIE IN NEW CEILING GRID INTO EXISTING CEILING GRID
3	NEW GYP. BD. CEILING TO TIE INTO EXISTING GYP. BD. CEILING. MATCH EXISTING HEIGHT.
4	ISOCENTER OF MAST RE: VENDOR DRAWINGS FOR NEW HYBRID OR EQUIPMENT.
5	ISOCENTER OF TABLE RE: VENDOR DRAWINGS FOR NEW HYBRID OR EQUIPMENT.
6	ISOCENTER OF ROOMS RE: VENDOR DRAWINGS FOR FINAL LOCATION - RE: E3A3.1 FOR LIGHT SUPPORT DETAIL
7	REF. MECHANICAL AND ELECTRICAL FOR CEILING LAYOUT
8	OPEN TO STRUCTURE
9	DIFFUSER ARRAY WITH INTEGRATED LIGHT SYSTEM DEFERRED SUBMITTAL



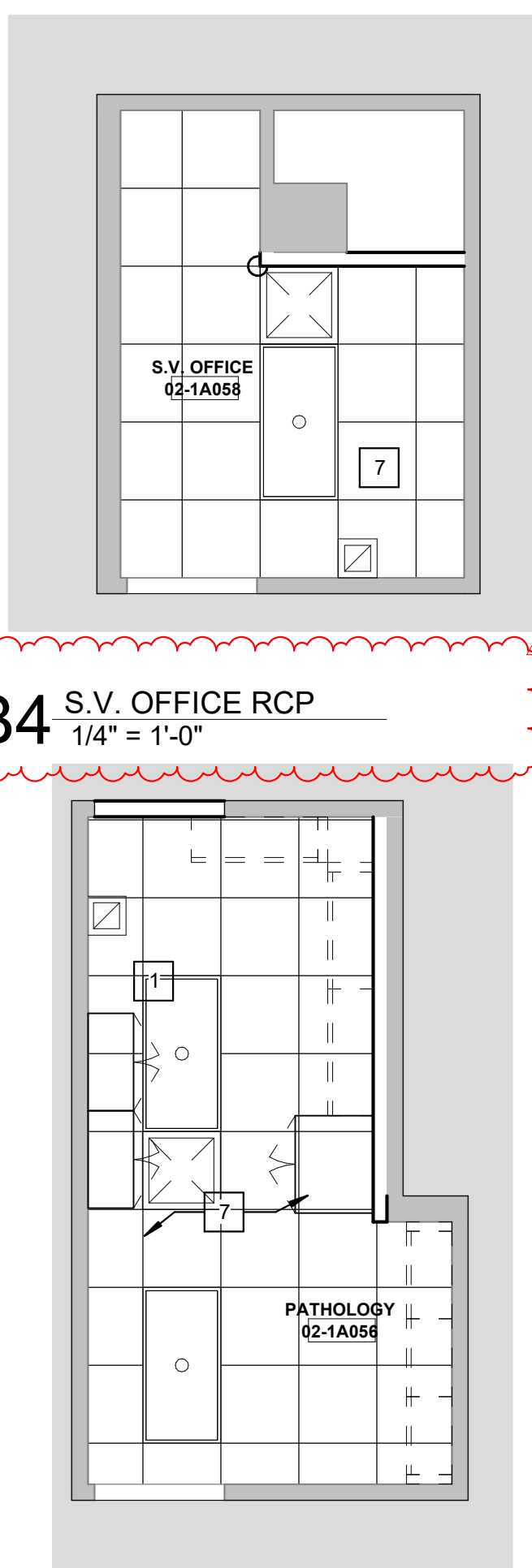
C3 CLEAN ROOM RCP  
1/4" = 1'-0"



B3 STORAGE RCP  
1/4" = 1'-0"

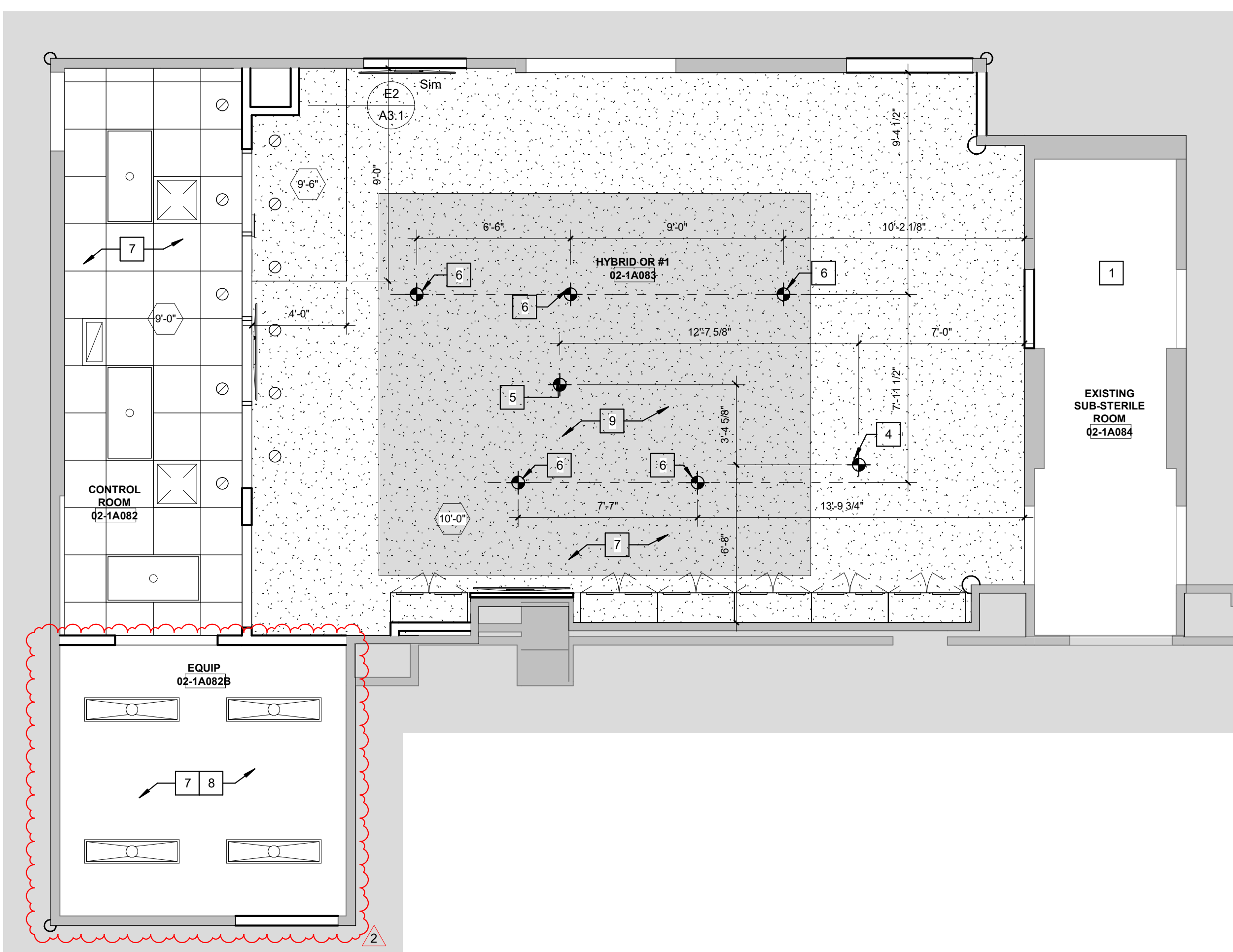


A3 STORAGE ROOM RCP  
1/4" = 1'-0"



B4 S.V. OFFICE RCP  
1/4" = 1'-0"

A4 PATHOLOGY RCP  
1/4" = 1'-0"



A5 HYBRID OR RCP  
1/4" = 1'-0"

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ACI/Boland, Inc.  
Kansas City | St. Louis  
Licensee's Certificate of Authority Number:  
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Missouri: #F001325536

**SLE HYBRID OR**  
**100 NE Saint Luke's Blvd**  
**Lee's Summit, MO 64086**

Date 5/31/2022  
Job Number 3-20034  
Drawn By AF  
Checked By Checker

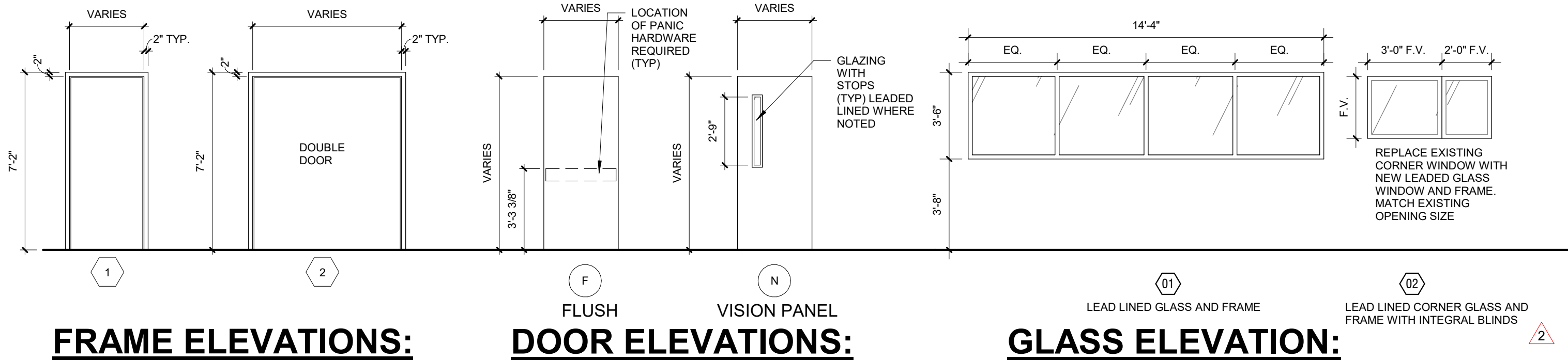
Revision  
Number Date Description  
2 07.13.22 ADD #2 - CITY

**A3.1**  
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FIRST FLOOR REFLECTED CEILING PLAN

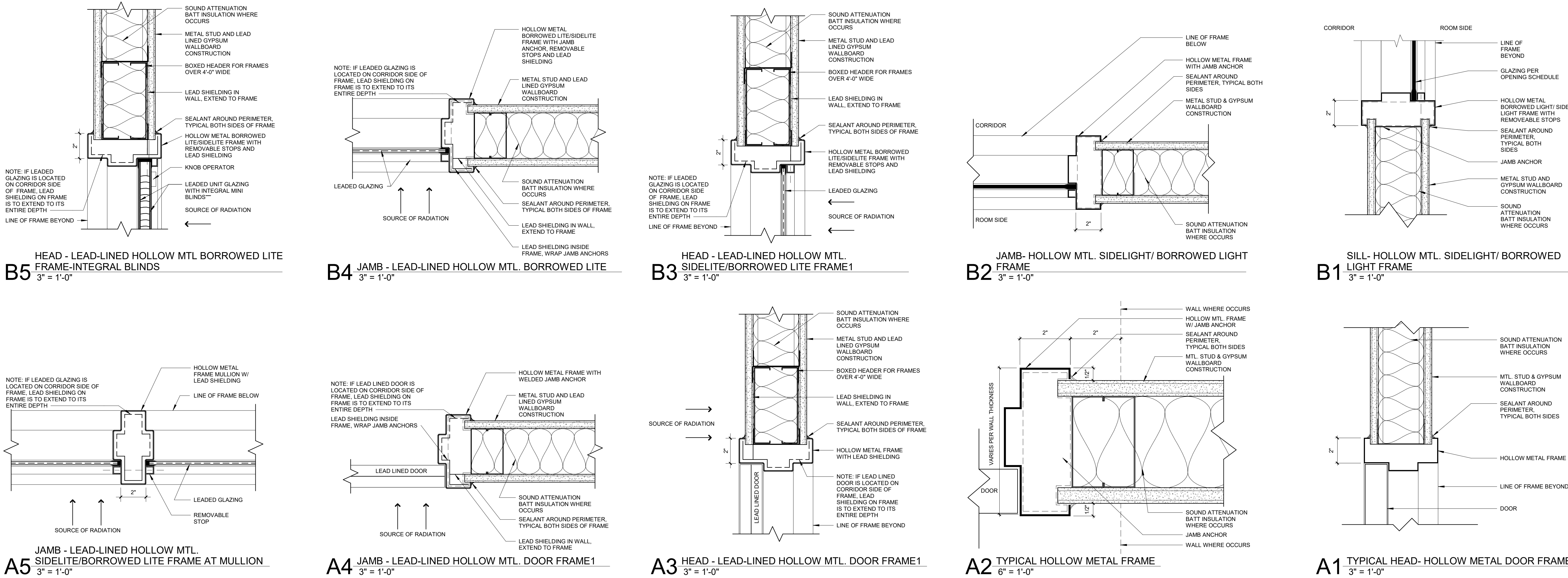


DOOR SCHEDULE																
DOOR #	ROOM NAME	DOOR INFORMATION					FRAME INFORMATION				LABEL (MIN)	HARDWARE SET	OPENING DETAIL		REMARKS	REV #
		WIDTH	HEIGHT	NO. OF LEAVES	UNEQUAL LEAF WIDTH	ELEV.	MATL.	ELEV.	MATL.	GLAZING			HEAD	JAMB		
1A046	CLEAN ROOM	3'-0"	7'-0"	1		F	WD	1	HM	--	45 mm	4	ETR	ETR	EXISTING HARDWARE, DOOR, AND FRAME TO REMAIN	
1A047B	CONSULTATION ROOM	3'-0"	7'-0"	1		F	WD	1	HM	--	45 mm	3	A1	A2	PASSAGE SET	3
1A056	PATHOLOGY	3'-0"	7'-0"	1		F	WD	1	HM	--	45	5	A1	A2	NEW OFFICE SET, EXISTING DOOR AND FRAME	
1A058	S.V. OFFICE	3'-0"	7'-0"	1		F	WD	1	HM	--	45	5	A1	A2	NEW OFFICE SET, EXISTING DOOR AND FRAME	
1A079	EXISTING STORAGE	4'-0"	7'-0"	1		V	WD	1	HM	--	45 mm	4	ETR	ETR	EXISTING HARDWARE, DOOR, AND FRAME TO REMAIN	
1A082A	CONTROL ROOM	3'-0"	7'-0"	1		F	WD	1	HM	--	0 hr	4	ETR	ETR	EXISTING HARDWARE, DOOR AND FRAME TO REMAIN	
1A082B	EQUIP	4'-0"	7'-0"	1		F	WD	1	HM	--	1	A1	A2	STOREROOM SET		
1A083	HYBRID OR #1	4'-0"	7'-0"	2	2'-0"	F / F	WD	2	HM	--	2	A3	A4	WAVE TO OPEN WITH AUTO OPENER, LEAD LINED DOOR AND FRAME		
1A083B	HYBRID OR #1	4'-0"	7'-0"	1		F	WD	1	HM	--	3	A3	A4	NEW LEAD LINED DOOR AND FRAME, HOSPITAL LATCH		
1A084D	HYBRID OR #1	3'-0"	7'-0"	1		N	WD	1	HM	T	3	A3	A4	NEW LEAD LINED DOOR, WINDOW, AND FRAME, HOSPITAL LATCH		
1A094	STORAGE	4'-0"	7'-0"	1		N	WD	1	HM	FR	45 mm	7	A1	A2	STORAGE ROOM SET, RELOCATED CARD READER	

DOOR & FRAME MAT'L LEGEND	
T	1/4" CLEAR, TEMPERED GLAZING
HM	HOLLOW METAL
WD	SOLID CORE WOOD
ETR	EXISTING TO REMAIN
FR	FIRE-RATED, IMPACT RESISTANT SAFETY GLAZING



DOOR HARDWARE			
HARDWARE SET: 1 DOOR NUMBER: 1A082B EACH TO HAVE: QTY DESCRIPTION 3 EA HINGE 1 EA STOREROOM LOCK 1 EA CYLINDER BY OWNER 1 EA KICK PLATE 1 EA WALL STOP 1 EA GASKETING			
CATALOG NUMBER	FINISH	MFR	
5B81HW	652	IVE	
N080LD RHO	626	SCH	
90S	630	GLY	
8400 10" X 2" LDW B-CS	630	IVE	
WS406407CCV	630	IVE	
48S8BK PSA	BK	ZER	
HARDWARE SET: 2 DOOR NUMBER: 1A083 EACH TO HAVE: QTY DESCRIPTION 2 EA PIVOT SET 2 EA INTERMEDIATE PIVOT 2 EA MAGNETIC LOCK TO INTERFERENCE WITH EQUIPMENT MANUFACTURER, IF REQUIRED 2 EA PUSH PLATE 2 EA DOOR PULL 1 EA AUTO OPERATOR 2 EA ACTUATOR, TOUCHLESS 1 EA PRESENCE SENSOR 2 EA ARMOR PLATE 1 EA GASKETING 1 EA ASTRAGAL			
CATALOG NUMBER	FINISH	MFR	
7215 SET	626	IVE	
7215 INT	626	IVE	
M420P 1224 VDC	626	SCE	
8200 4" X 16"	630	IVE	
8121 5"	626	IVE	
4000 LE SERIES	689	HOR	
8310-810S	630	LCN	
SUPERSCAN	630	IVE	
8402 34" X 1" LDW B-CS	630	IVE	
48S8BK PSA	BK	ZER	
LEAD LINED BY DOOR SUPPLIER			
HARDWARE SET: 3 DOOR NUMBER: 1A083B 1A084D EACH TO HAVE: QTY DESCRIPTION 1 EA PIVOT SET 1 EA INTERMEDIATE PIVOT IVE 1 EA PUSH/PULL LATCH 1 EA SURFACE CLOSER 1 EA KICK PLATE 1 EA WALL STOP 1 EA GASKETING			
CATALOG NUMBER	FINISH	MFR	
7215 INT	626	IVE	
7215 INT	626	IVE	
HL6 9010 2 3/4" A L	630	SCH	
4404XP EDA	689	LCN	
8400 10" X 2" LDW B-N-H	630	IVE	
WS406407CCV	630	IVE	
48S8BK PSA	BK	ZER	
HARDWARE SET: 4 DOOR NUMBER: 1A046 1A079 1A082A EACH TO HAVE: QTY DESCRIPTION 1 NOTE			
CATALOG NUMBER	FINISH	MFR	
EXISTING DOOR, FRAME AND HARDWARE TO REMAIN			
HARDWARE SET: 5 DOOR NUMBER: 1A056 1A058 EACH TO HAVE: QTY DESCRIPTION 1 EA ENTRANCE LOCK 1 EA CYLINDER EA NOTE			
CATALOG NUMBER	FINISH	MFR	
N053LD RHO	626	SCH	
BY OWNER	626	SCH	
REMANINDER OF HARDWARE EXISTING			
HARDWARE SET: 6 DOOR NUMBER: 1A047B EACH TO HAVE: QTY DESCRIPTION 3 EA HINGE 1 EA PASSAGE SET 1 EA SURFACE CLOSER 1 EA KICK PLATE 1 EA WALL STOP 1 EA GASKETING			
CATALOG NUMBER	FINISH	MFR	
5B81HW	652	IVE	
N010S RHO	626	SCH	
4404XP	689	LCN	
8400 10" X 2" LDW B-CS	630	IVE	
WS406407CCV	630	IVE	
48S8BK PSA	BK	ZER	
HARDWARE SET: 7 DOOR NUMBER: 1A094 EACH TO HAVE: QTY DESCRIPTION 1 EA NOTE 1 EA NOTE 1 EA NOTE 1 EA NOTE OPERATION: DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CARD READ. ALWAYS FREE FOR EGRESS.			
CATALOG NUMBER	FINISH	MFR	
LOW VOLTAGE POWER BY SECURITY	B/O		
REMANINDER OF HARDWARE EXISTING			
WIRING DIAGRAM BY SECURITY	B/O		
OPERATION: DOOR NORMALLY CLOSED AND LOCKED. ENTRY VIA VALID CARD READ. ALWAYS FREE FOR EGRESS.			



DOOR AND HARDWARE NOTES

- DOOR OPENING DEVICES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST. DOOR KNOBS ARE PROHIBITED.
- ALL MEANS OF EGRESS DOORS SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF SPECIAL TOOLS, A KEY, SPECIAL KNOWLEDGE OR EFFORT. DOUBLE KEYED DEAD BOLTS ARE PROHIBITED.
- PROVIDE HARDWARE INCLUDING, BUT NOT LIMITED TO THAT SHOWN IN THE HARDWARE GROUPS FOR THE NORMAL OPERATION AND USE OF EACH DOOR, MAKE RECOMMENDATIONS FOR ADDITIONAL ITEMS IN HARDWARE SUBMITTAL AS REQUIRED.
- ALL HARDWARE SHALL BE IN COMPLIANCE WITH ADA GUIDELINES AND NATIONAL BUILDERS HARDWARE ASSOCIATION STANDARDS.
- HARDWARE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR TO SUBMIT DOOR AND HARDWARE SHOP DRAWINGS TO OWNER FOR REVIEW PRIOR TO WORK BEING PERFORMED. FAILURE TO SUBMIT DRAWINGS RESULTS IN THE CONTRACTOR ASSUMING ALL RESPONSIBILITY AT THEIR OWN EXPENSE.
- OWNER WILL SUPPLY PERMANENT CORES.

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Revision		Description
Number	Date	
2	07.13.22	ADD #2 - CITY
3	07.22.22	ADD #3



## GENERAL ROOM FINISH SCHEDULE NOTES

- A. REFER TO FINISH PLAN AND INTERIOR ELEVATIONS FOR WALL FINISHES, WALL PROTECTION, CORNER GUARDS, WINDOW TREATMENTS, FLOOR FINISH APPLICATION AND LOCATIONS  
B. ALL SOLID WOOD, WOOD VENEER, AND PLASTIC LAMINATE GRAIN SHALL BE VERTICALLY ORIENTED UNLESS OTHERWISE NOTED  
C. DOOR FRAMES, HOLLOW METAL WINDOW FRAMES TO BE PT-4 UNLESS OTHERWISE NOTED  
D. ALL FACES AND UNDERSIDES OF SOFFITS AND HEADERS TO BE PT-5 UNLESS OTHERWISE NOTED  
E. WALL EXPANSION JOINTS TO BE PT-1 UNLESS OTHERWISE NOTED  
F. ALL ELECTRICAL PANELS AND METAL GRILLES SHALL BE PTD TO MATCH ADJACENT WALL SURFACE UNLESS OTHERWISE NOTED  
G. ALL COLUMN SURROUND FINISHES TO MATCH ADJACENT WALL SURFACE UNLESS OTHERWISE NOTED  
H. WHERE A WALL IS INDICATED TO HAVE PARTIAL OR FULL HT WALL PROTECTION, THE ENTIRE WALL IS TO BE PTD PRIOR TO WALL PROTECTION INSTALLATION  
I. EXTEND ALL FINISHES BENEATH, BEHIND, AROUND ALL CASEWORK, EQUIPMENT, SIGNAGE, ETC.  
J. ALL SST SINKS, RE, MEP  
K. SUBMIT SAMPLES OF ALL FINISHES TO ARCHITECT FOR REVIEW PRIOR TO THE ORDERING OF MATERIAL.  
L. NO IRREGULARITIES OR IMPERFECTIONS SHALL BE PRESENT IN ANY OF THE MATERIAL BEING INSTALLED. IF SUCH ITEMS ARE IDENTIFIED DURING APPLICATION, WORK SHALL BE STOPPED AND THE ARCHITECT NOTIFIED.  
M. PROVIDE ALL MAINTENANCE MANUALS AND WARRANTY INFORMATION FOR EACH FINISH MATERIAL TO OWNER AT COMPLETION OF THE PROJECT.  
N. FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE WORK OF FINISH APPLICATIONS.  
O. ALL FINISHES SHALL BE INSTALLED AND MAINTAINED PER MANUFACTURER'S RECOMMENDATION AND INDUSTRY STANDARDS.  
P. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. SUBSTRATE SHALL BE SMOOTH, FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.  
Q. ALL MATERIAL TO COMPLY WITH FLAME SPREAD CLASSIFICATION EITHER CLASS (1) ONE OR CLASS A DEPENDING ON GOVERNING CODE IN EFFECT.  
R. SMOKE DEVELOPMENT RATING < 450 FOR ALL FINISHES.

## INTERIOR FINISH LEGEND

MARK	ITEM	MANUFACTURER	MODEL/ PATTERN	COLOR	SIZE	REMARKS
FLOOR						
LVT-1	LUXURY VINYL TILE	MANNINGTON	AMTICO WOOD	REGENCY WALNUT ARROWWOOD	4 1/2" X 36"	STRAIGHT EDGE ONLY, RANDOM OFFSET INSTALLATION
LVT-2	LUXURY VINYL TILE	MANNINGTON	AMTICO STONE	CORINTHIAN MARBLE ARDSTY13	18" X 18"	STRAIGHT EDGE ONLY, ASHLAR INSTALL
RES-1	SEAMLESS RESINOUS FLOOR COVERING	DESCO	QUARTZ CREMONA TG / OR WITH BIO-FINISH	SR0714-434TG	-	DESCO SR CO-POLYMER
RSF-1	RESILIENT SHEET FLOORING	ARMSTRONG	MEDINTONE, DIAMOND 10	#H5311 - NATURAL WHITE	6'-0" ROLL	WELD ROD W5129, HOMOGENEOUS FLOORING
BASE						
IB-1	INTEGRAL BASE	ARMSTRONG	MEDINTONE, DIAMOND 10	#H5311 - NATURAL WHITE	6" COVE	1/2" MOLD SCHLUTER STRIP AT THE TOP, TO BE USED WITH RSF-1
IB-3	SEAMLESS RESINOUS INTEGRAL COVE BASE	DESCO	QUARTZ CREMONA TG / OR WITH BIO-FINISH	SR0714-434TG	6" COVE	DESCO SR CO-POLYMER, TO BE USED WITH RES-1
RB-1	RESILIENT BASE	ROPPE	PINNACLE	#129 DOLPHIN	4 5/8"	ALL CAMPUS - PUBLIC SPACES
RB-2	RESILIENT BASE	ROPPE	PINNACLE	#129 DOLPHIN	4" COVE	ALL CAMPUS - SUPPORT SERVICE SPACES
WALL						
CG-2	CORNER GUARDS	C/S ACROVYN	SM-20AN-ACROVYN-4000	#933 MISSION WHITE	3"	90 DEGREE, ABOVE BASE TO CEILING/ INCLUDE ALL TRIM AND ACCESSORIES PIECES
CG-4	CORNER GUARDS	C/S ACROVYN	CO-4 STAINLESS STEEL	44 SATIN FINISH	3.5" WINGS	FLOOR TO CEILING
PT-1PT-1A	PAINT/ EPOXY PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH / EPOXY FINISH	SW7008 ALABASTER	-	FIELD PAINT
PT-4	PAINT	SHERWIN WILLIAMS	SEM-GLOSS FINISH	SW7046 ANONYMOUS	-	ALL HOLLOW METAL DOOR AND WINDOW FRAMES
PT-5PT-5A	PAINT/ EPOXY PAINT	SHERWIN WILLIAMS	FLAT FINISH / EPOXY FINISH	SW7008 ALABASTER	-	CEILING PAINT
PT-8PT-8A	PAINT/ EPOXY PAINT	SHERWIN WILLIAMS	EGGSHELL FINISH / EPOXY FINISH	SW7621 SILVERMIST	-	ACCENT PAINT
WP-2	WALL PROTECTION	C/S ACROVYN	ACROVYN 4000	#933 MISSION WHITE	4' X 10' SHEETS: .040" THICK	WALL PROTECTION AT 48" AFF, INCLUDE ALL ACCESSORIES AND TRIM PIECES
WS-1	WALL SYSTEM	DESCO COATINGS	WALLGLASS FC, SMOOTH TEXTURE, GLOSS FINISH	MATCH SHERWIN WILLIAMS SW7008 ALABASTER	-	WALL GLASS FC (FIBERGLASS CLOTH) UP TO 5'-0" THEN WALLGLASS FX THE REST OF THE WALL UP TO CEILING
CASEWORK						
MC-1	METAL CABINETS	MOTT MANUFACTURER	#601006	WARM GRAY	-	COLOR SHALL MATCH IF USING OTHER MANUFACTURER
PLAM-1	PLASTIC LAMINATE	WILSONART	#796K-12	WALNUT HEIGHT	-	CUSTOM 3MM PVC DOELKEN WALNUT HEIGHTS 870YES, RUN VERTICALLY
SSF-1	SOLID SURFACE	CORIAN	-	CLAM SHELL	1/2" - 3/8" X 144" SHEET, 36" X 144" SHEET	-
SST	STAINLESS STEEL	RE-MEP	-	-	-	-
CEILING						
ACT-1	ACOUSTIC CEILING TILE	USG	RADAR CLIMA PLUS #2210	WHITE	2' X 2'	SQUAR EDGE, DOWN DX TEE 15/16" GRID SYSTEM
MISC.						
ETR	EXISTING TO REMAIN	-	-	-	-	-
PTM	PATCH TO MATCH	-	-	-	-	-

## ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALLS				CASEWORK				CEILING	NOTES
				NORTH	EAST	SOUTH	WEST	BASE CABINETS	WALL CABINETS	COUNTERTOPS	SINKS		
02-1A046	CLEAN ROOM	PTM	PTM	PTM	PTM	PTM	PTM	-	-	-	-	ACT-1	
02-1A047B	CONSULTATION ROOM	LVT-1	RB-1	PT-1	PT-8	PT-1	PT-1	-	-	-	-	ACT-1	FURNITURE EQUIPMENT BY J.A. MARSHALL
02-1A056	PATHOLOGY	RSF-1	IB-1	PT-1A / WP-2	PT-1A / WP-2	PT-1A	PT-1A / WP-2	-	MC-1	SST	SST	ETR	FURNITURE EQUIPMENT BY J.A. MARSHALL
02-1A058	S.V. OFFICE	LVT-1	RB-2	PT-1	PT-1	PT-1	PT-1	-	-	-	-	ACT-1	
02-1A082	CONTROL ROOM	LVT-2	RB-2	PT-1	PT-1	PT-1	PT-1	-	-	-	-	ACT-1	
02-1A082B	EQUIP	LVT-2	RB-2	PT-1 / WP-2	PT-1 / WP-2	PT-1 / WP-2	PT-1 / WP-2	-	-	-	-	PT-5A	
02-1A083	HYBRID OR #1	RES-1	IB-3	WS-1	WS-1	WS-1	WS-1	-	-	-	-	PT-5A	
02-1A084	EXISTING SUB-STERILE ROOM	ETR	PTM	PTM	ETR	ETR	ETR	-	-	-	-	ETR	
02-1A094	STORAGE	LVT-2	RB-2	PT-1 / WP-2	PT-1 / WP-2	PT-1 / WP-2	PT-1 / WP-2	-	-	-	-	ACT-1	

C3 CLEAN ROOM / CONSULT FINISH PLAN  
1/4" = 1'-0"

B2 EXISTING STORAGE FINISH PLAN  
1/4" = 1'-0"

B3 S.V. OFFICE 02-1A056  
1/4" = 1'-0"

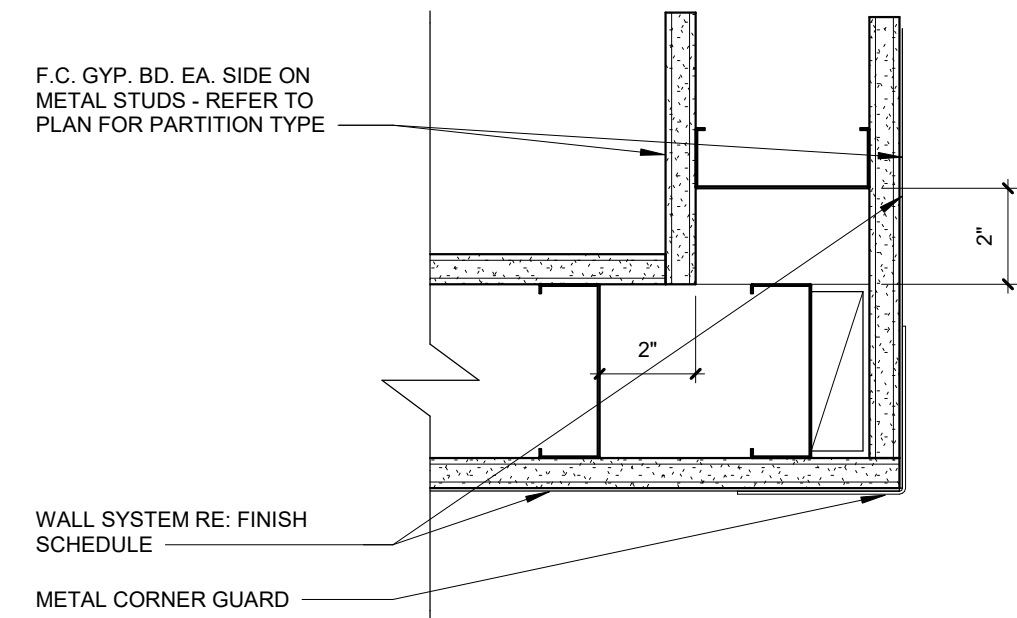
A4 HYBRID OR FINISH PLAN  
1/4" = 1'-0"

A3 PATHOLOGY FINISH PLAN  
1/4" = 1'-0"

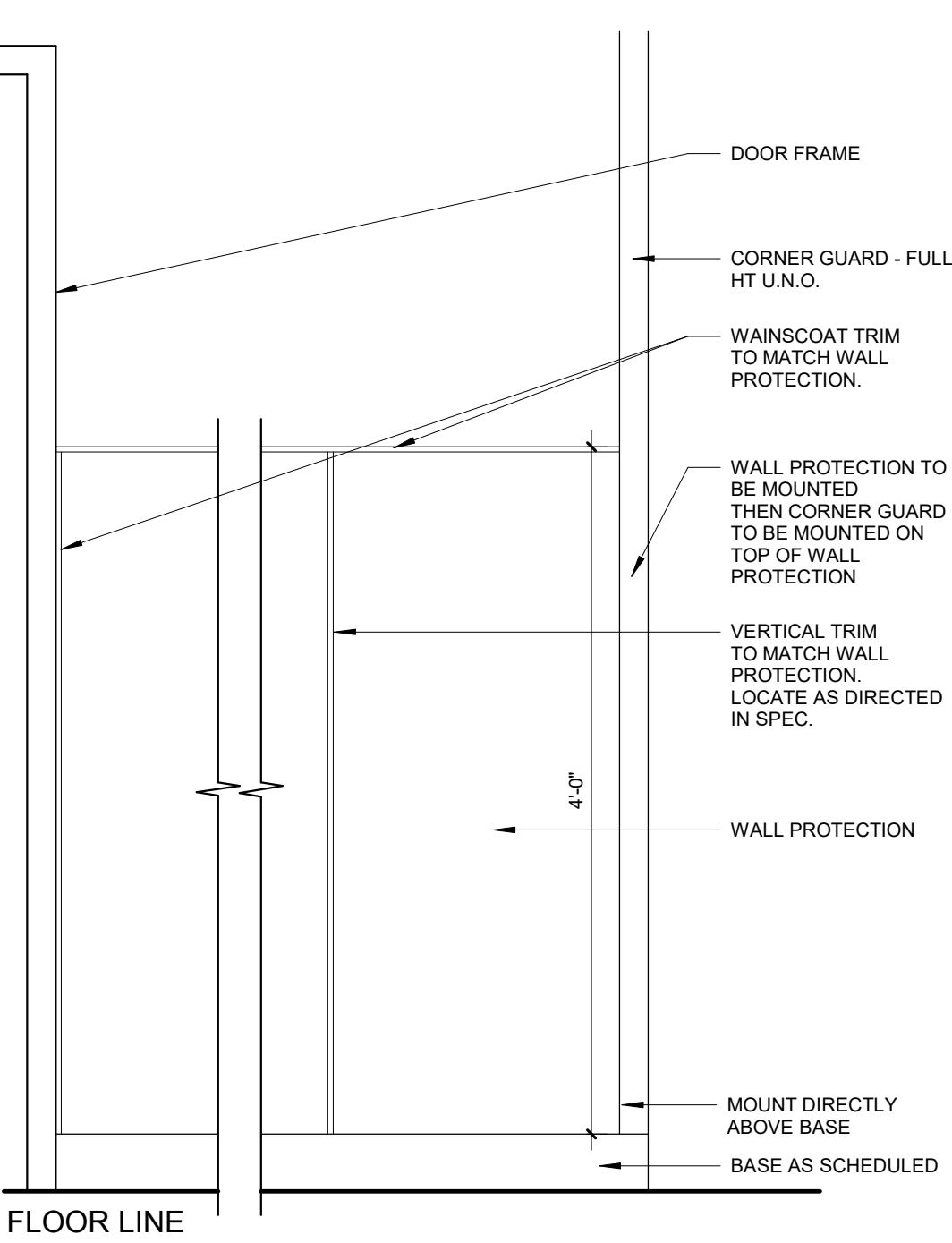
A2 STORAGE FINISH PLAN  
1/4" = 1'-0"



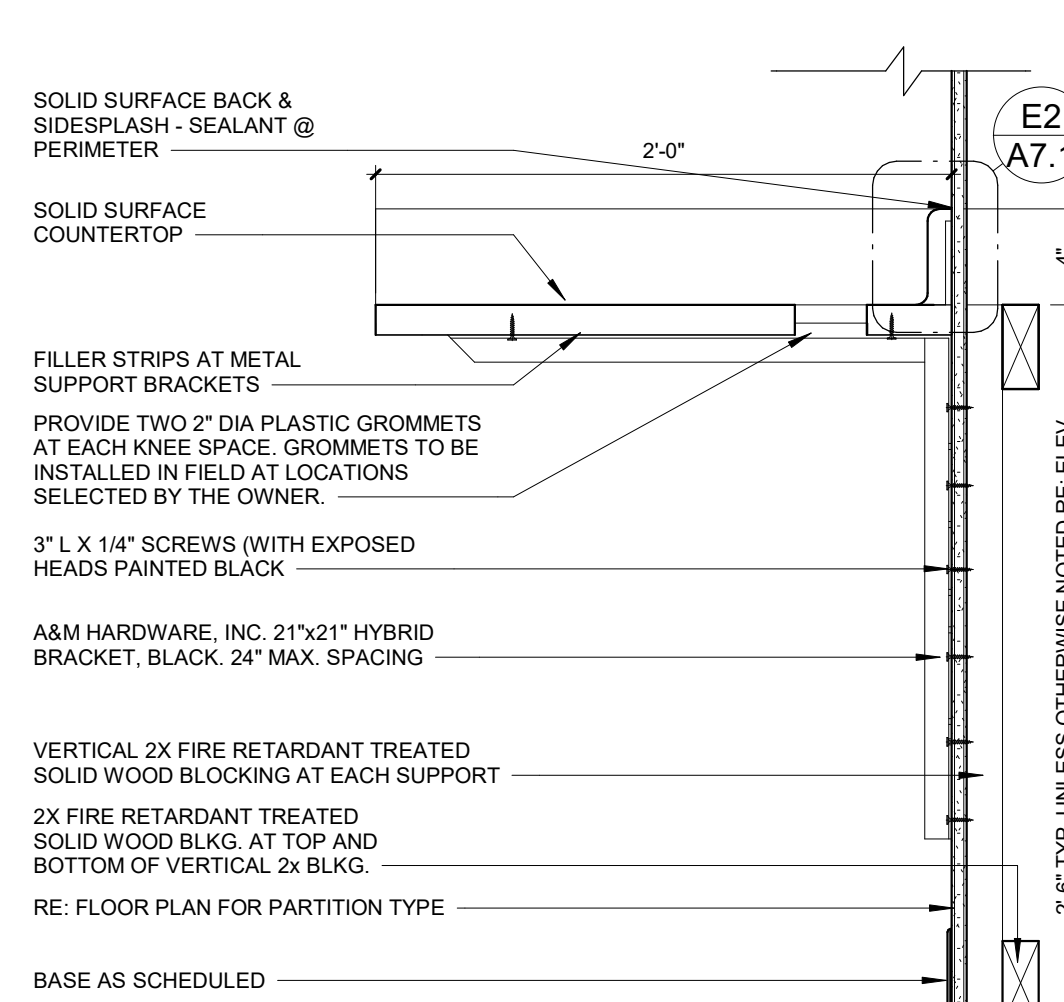
E6 TYPICAL SINGLE VINYL CORNER GUARD  
3" = 1'-0"



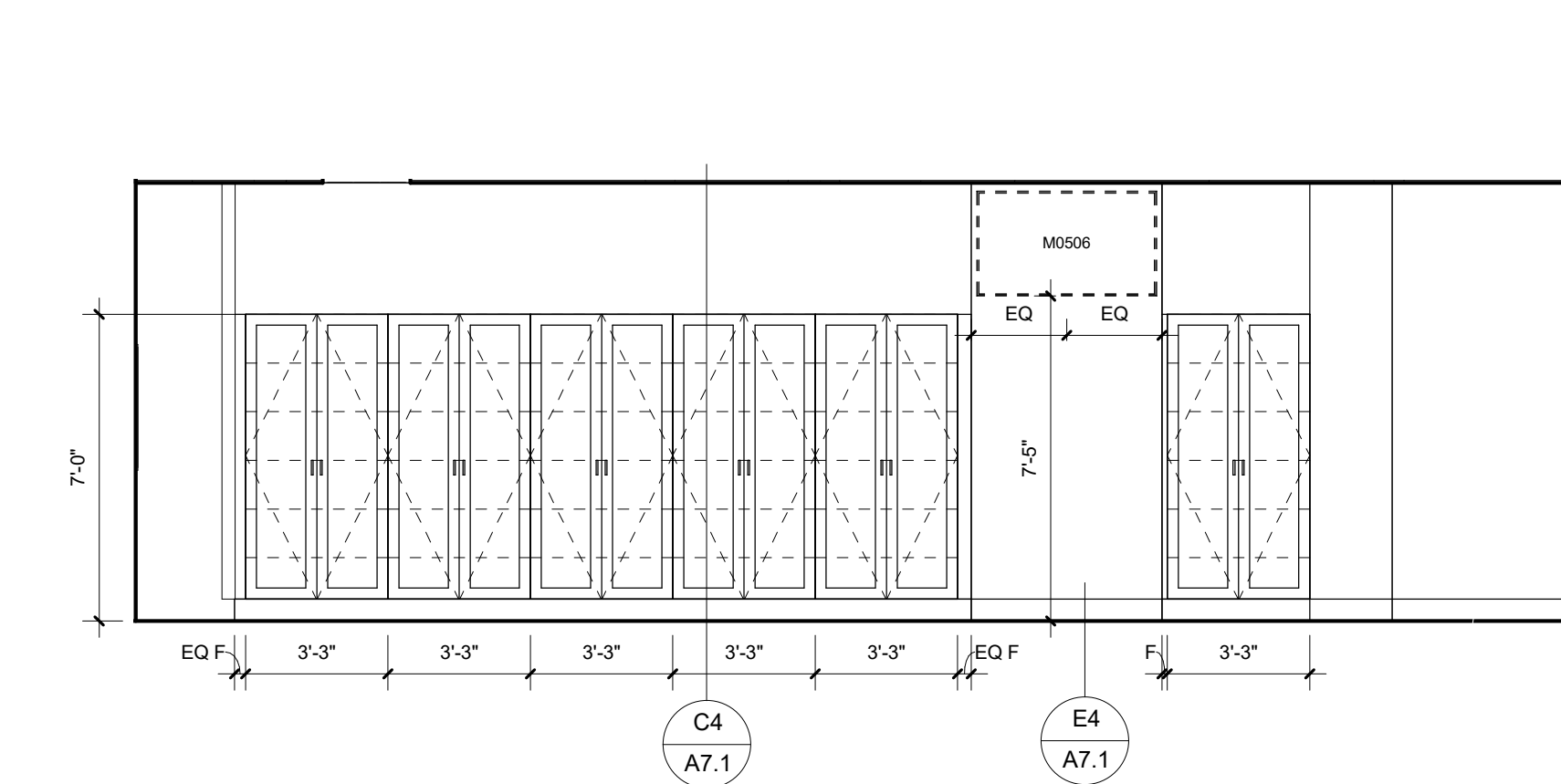
D6 DETAIL AT METAL CORNER GUARD  
3" = 1'-0"



C6 TYP. ELEV. OF WALL PROTECTION/CORNER GUARD  
1" = 1'-0"



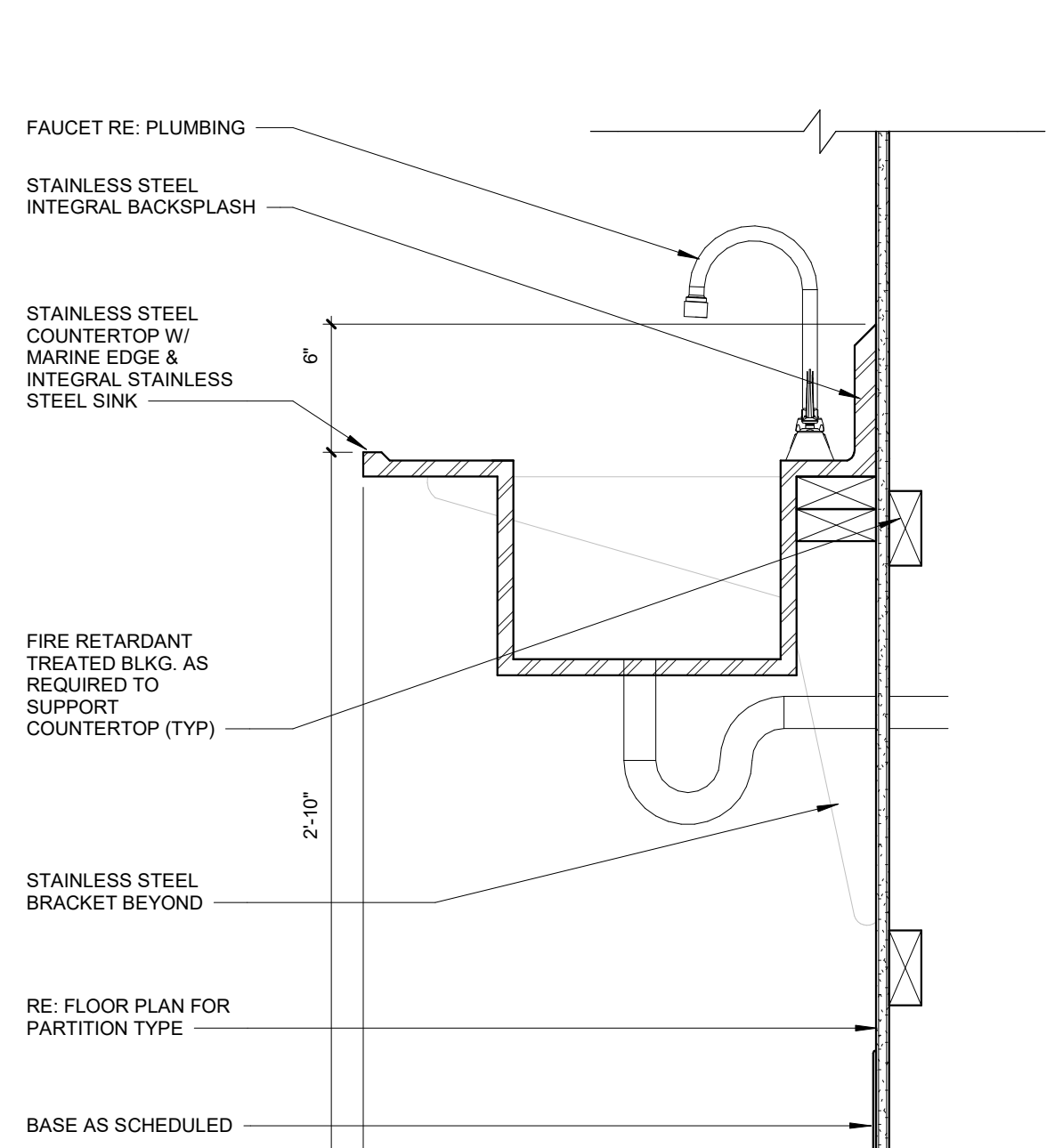
B6 DETAIL AT SUPPORT BRACKET / KNEE SPACE - HYBRID BRACKET  
1 1/2" = 1'-0"



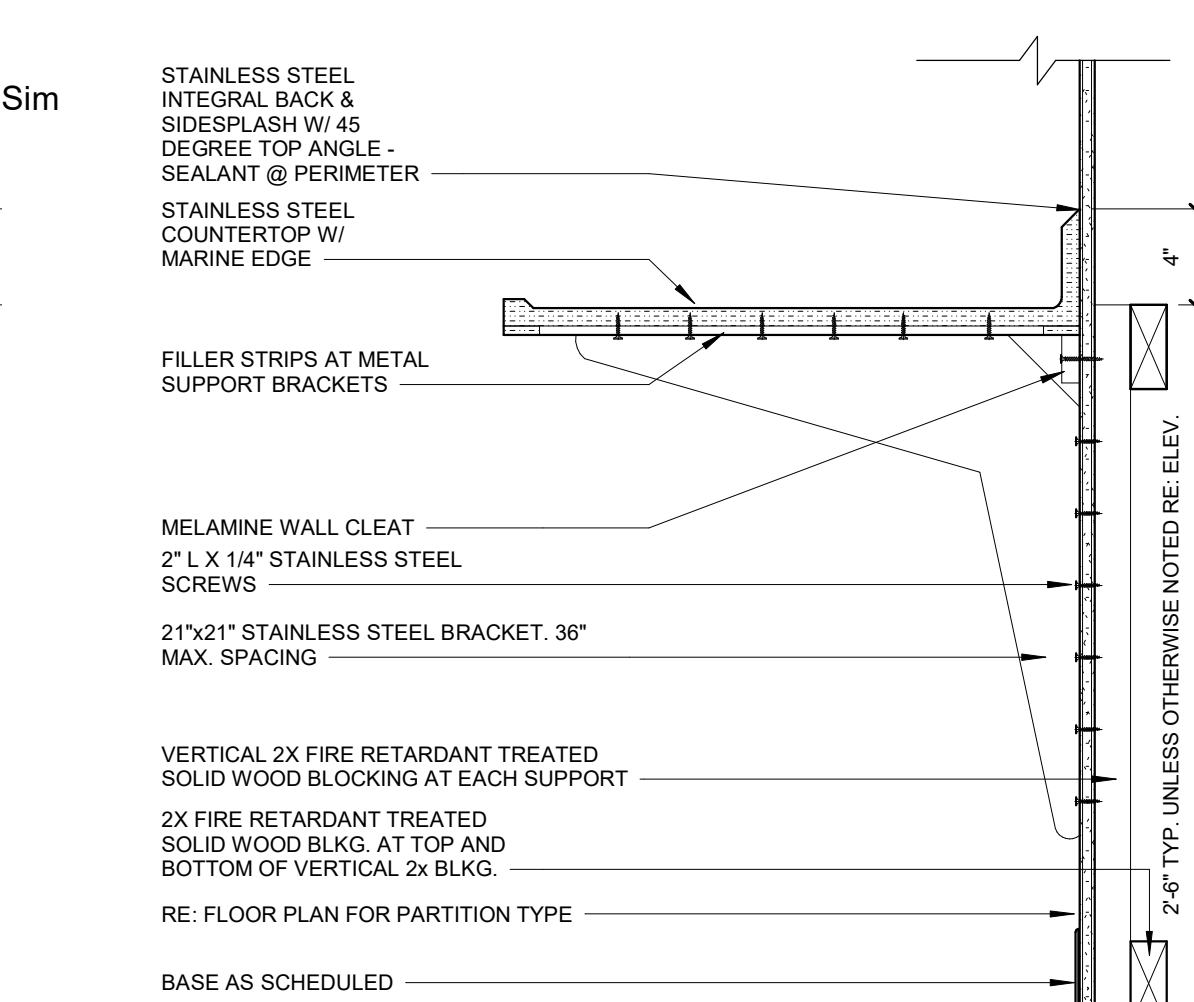
A6 HYBRID OR - WEST  
1/4" = 1'-0"



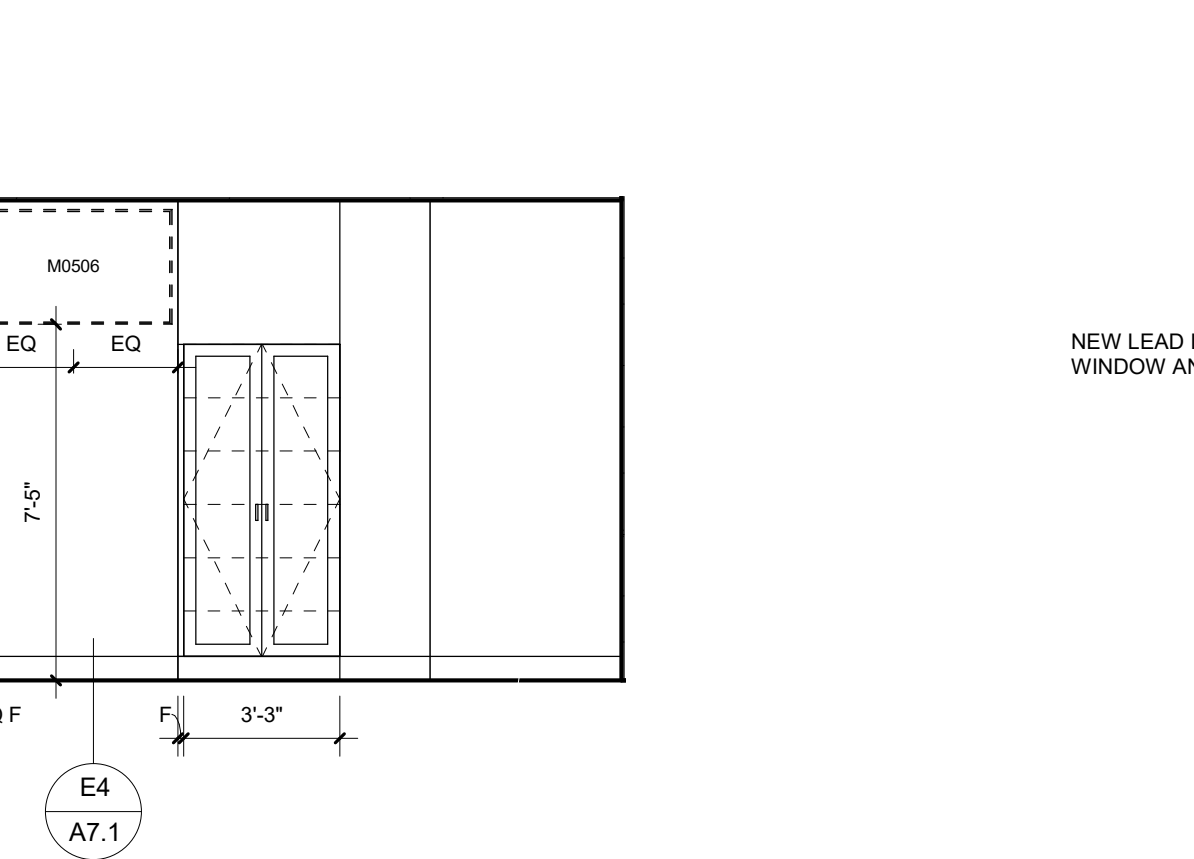
D5 DETAIL AT METAL UPPER CABINET  
1 1/2" = 1'-0"



C5 DETAIL AT SINK BASE CABINET - SST  
1 1/2" = 1'-0"



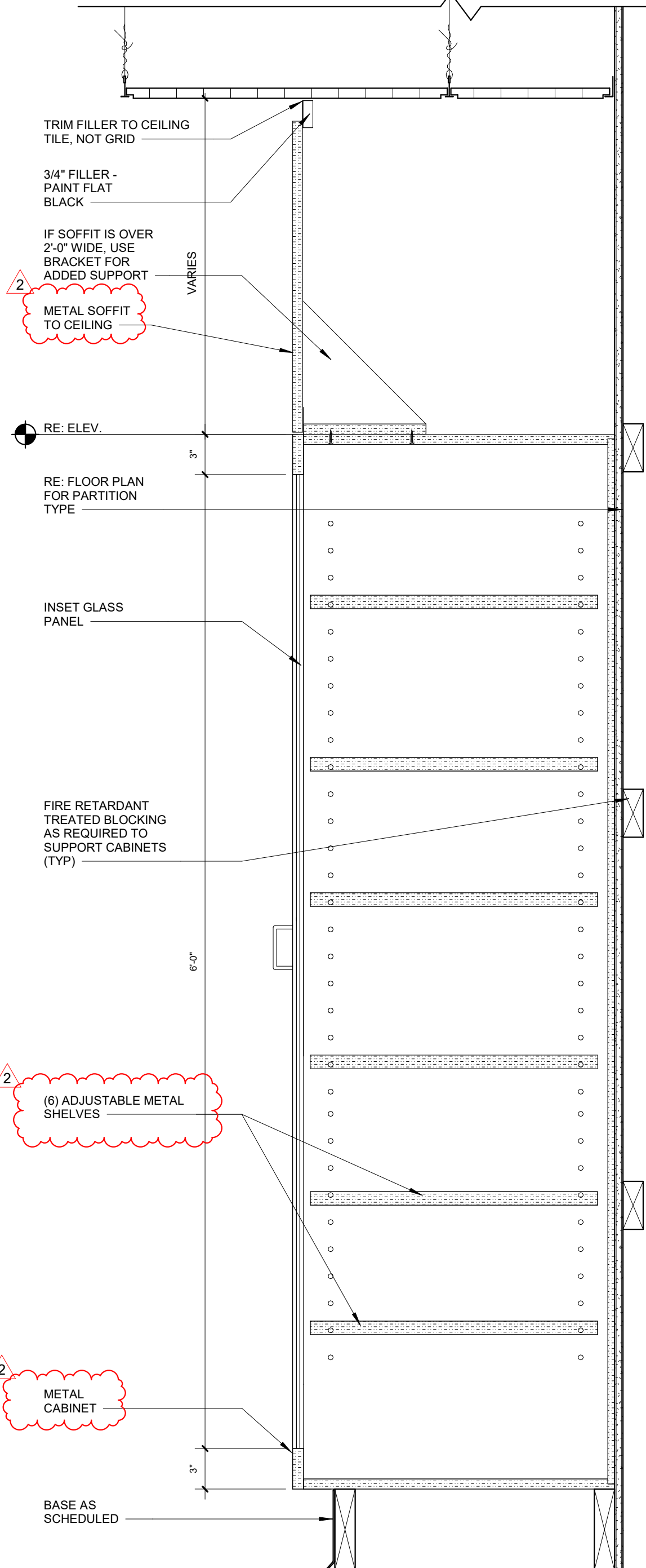
B5 DETAIL AT SUPPORT BRACKET / KNEE SPACE - SST  
1 1/2" = 1'-0"



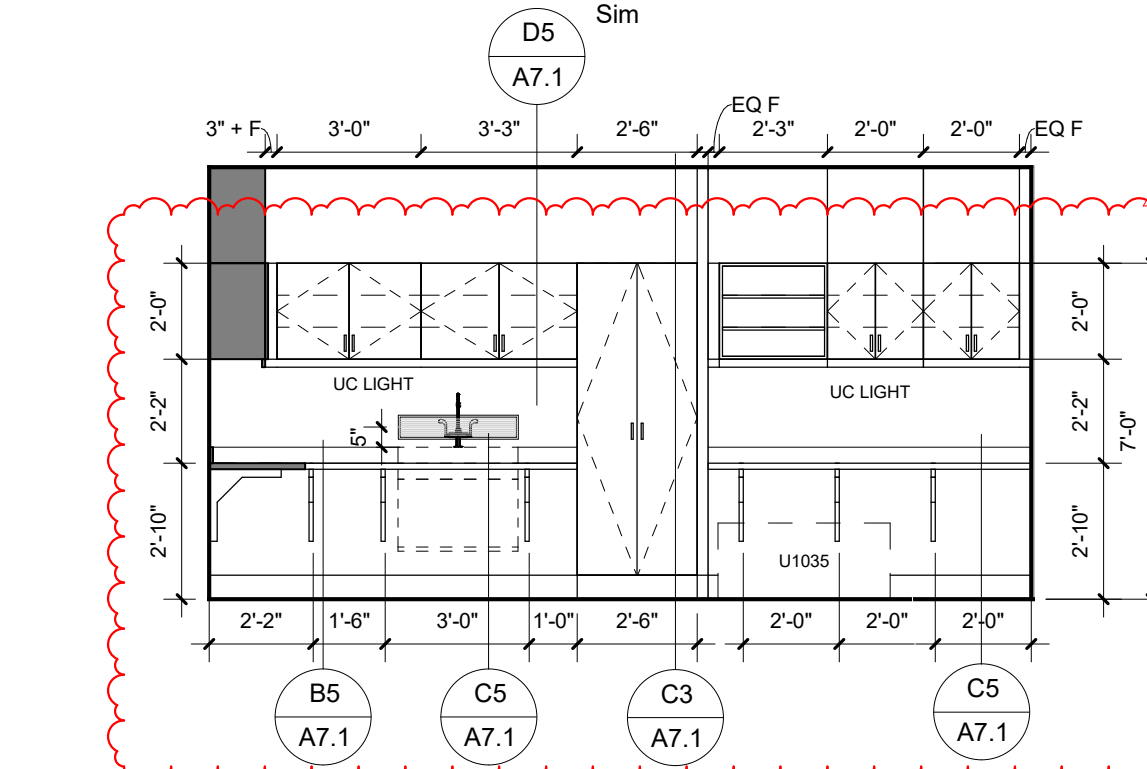
A4 HYBRID OR - SOUTH  
1/4" = 1'-0"



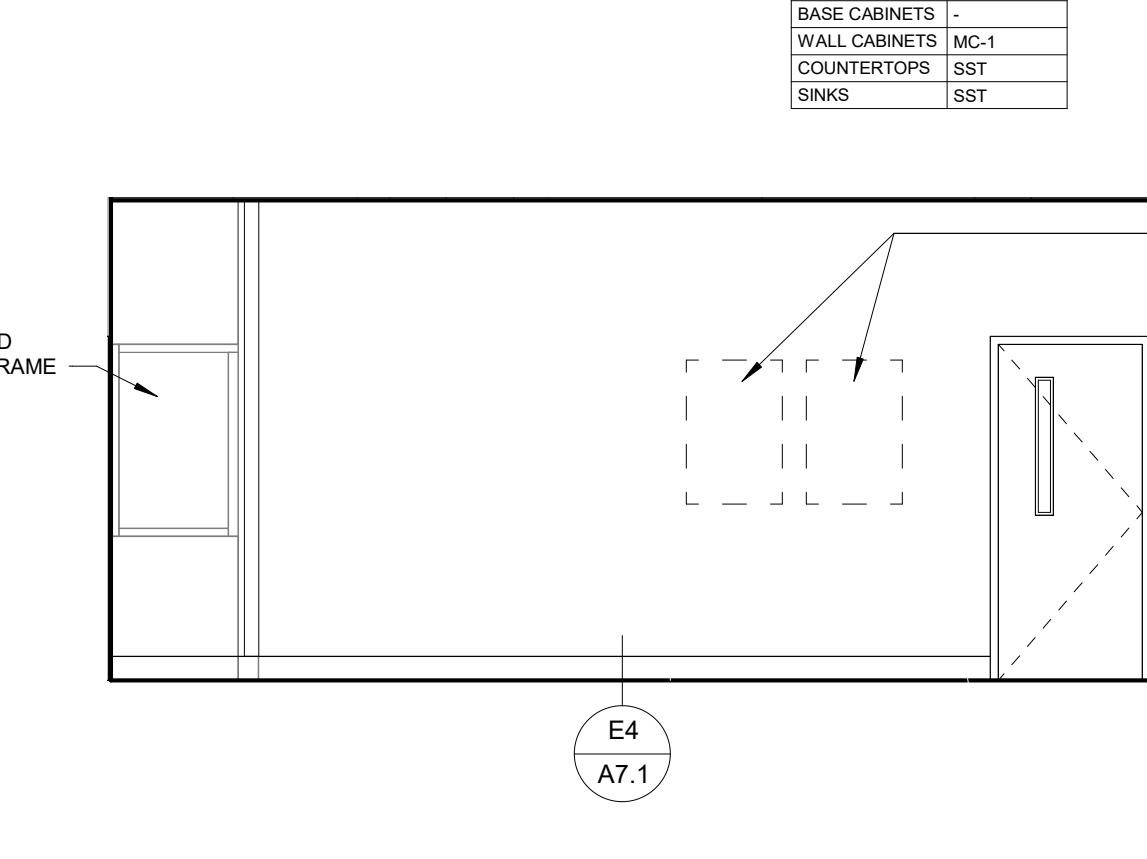
E4 DETAIL AT RESINOUS COVE BASE  
3" = 1'-0"



C4 DETAIL AT FULL HEIGHT CABINET WITH GLASS  
1 1/2" = 1'-0"



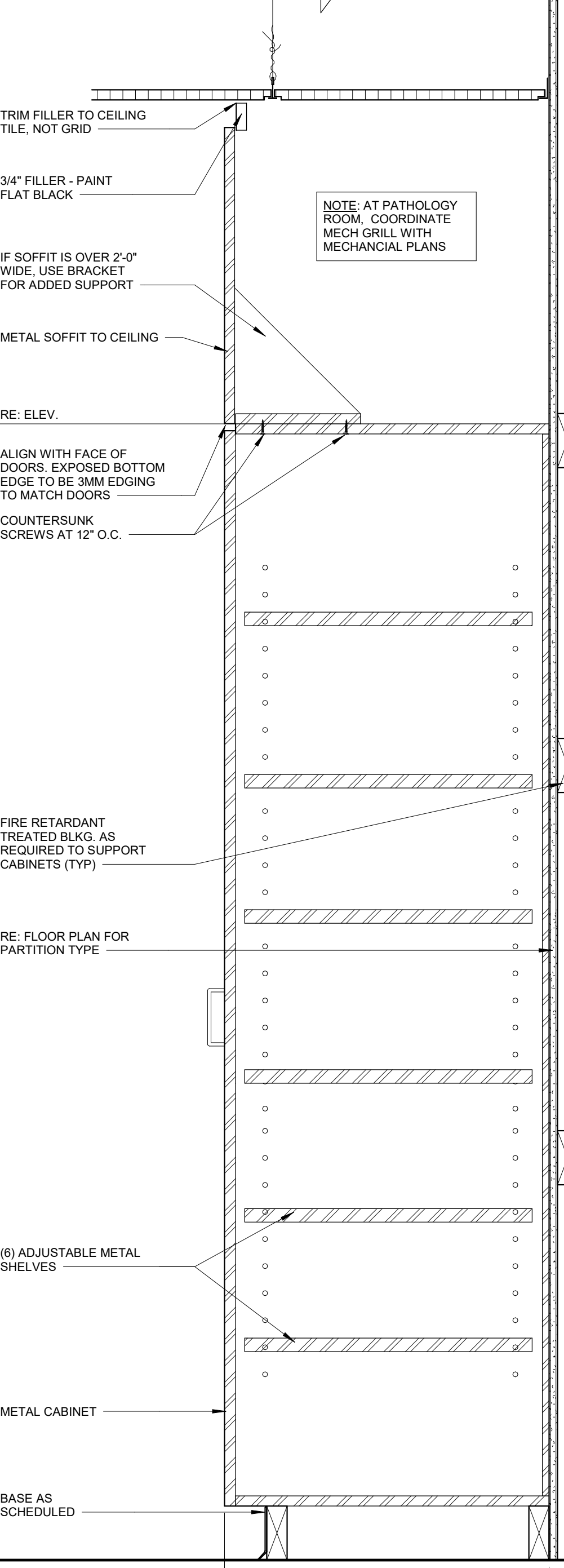
B4 PATHOLOGY ELEVATION - SOUTH  
1/4" = 1'-0"



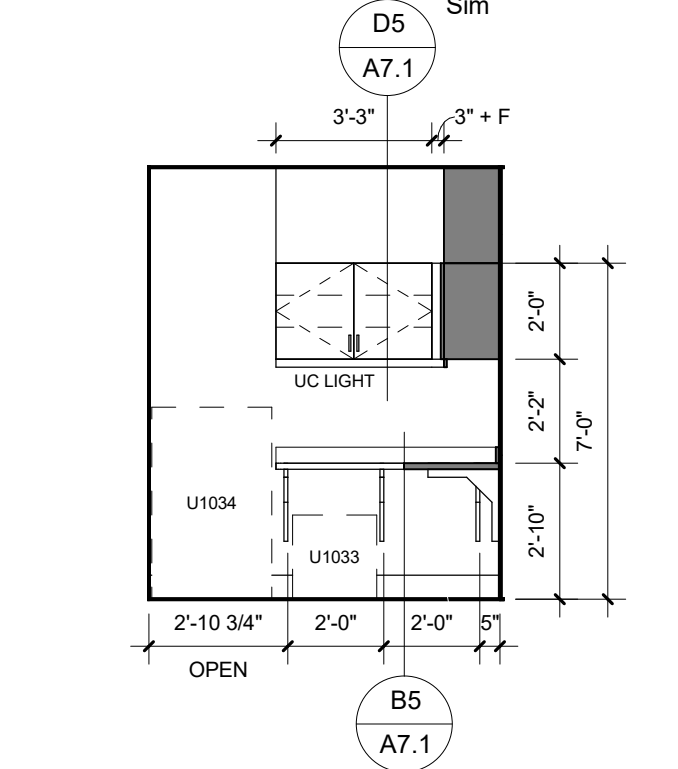
A4 HYBRID OR - SOUTH  
1/4" = 1'-0"



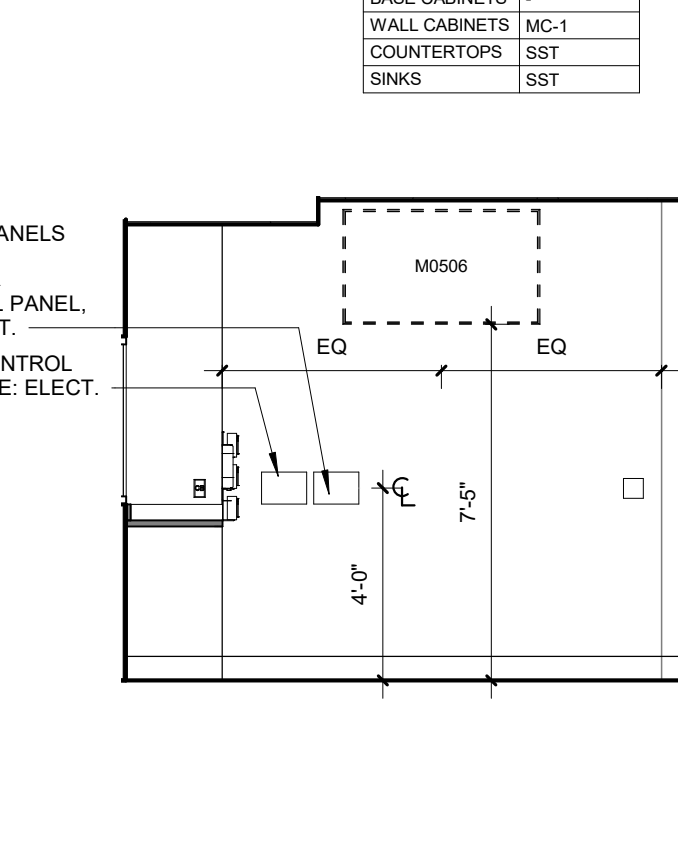
E3 DETAIL AT RESILIENT SHEET COVE BASE TERMINATION  
3" = 1'-0"



C3 DETAIL AT FULL HT. CABINET  
1 1/2" = 1'-0"



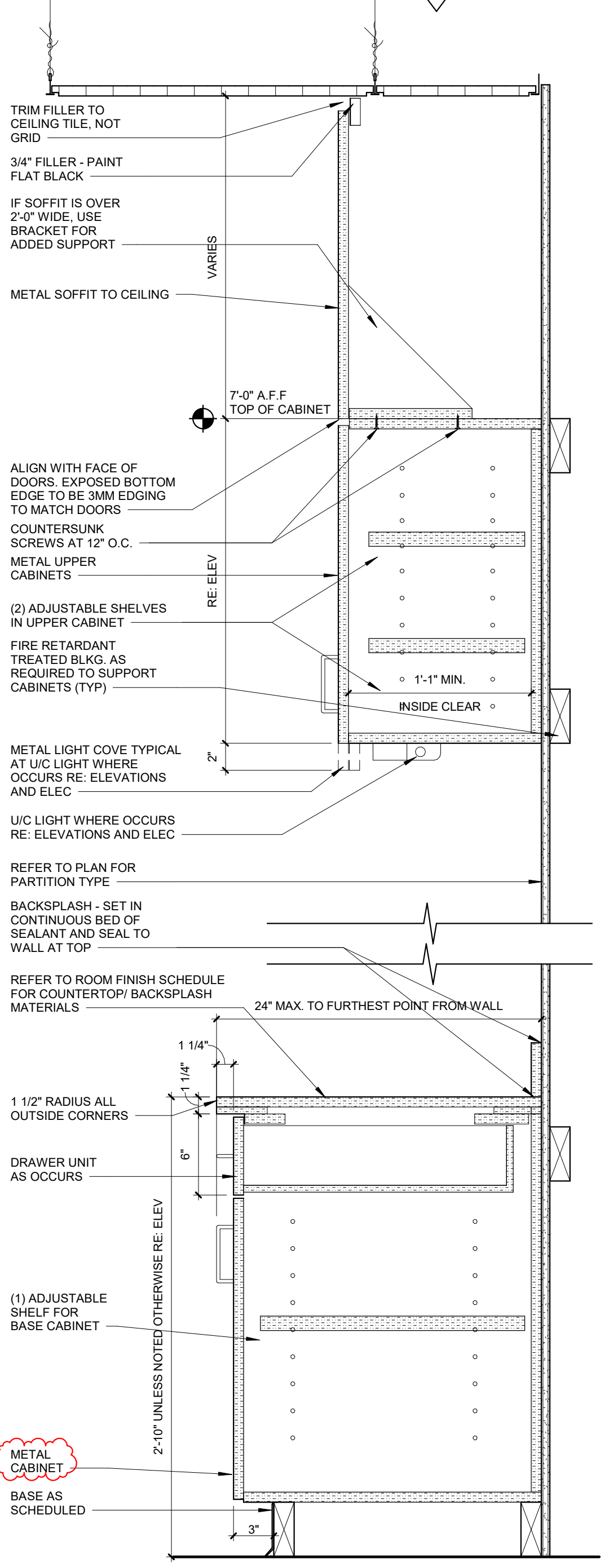
B3 PATHOLOGY - EAST  
1/4" = 1'-0"



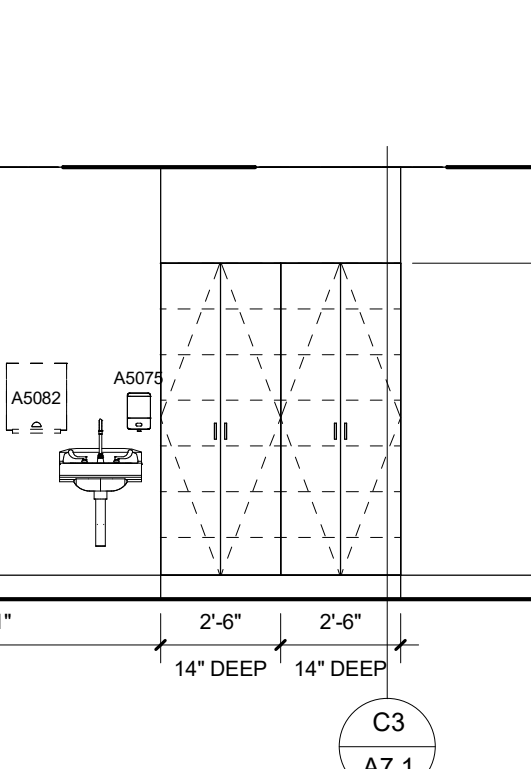
A3 HYBRID OR - EAST  
1/4" = 1'-0"



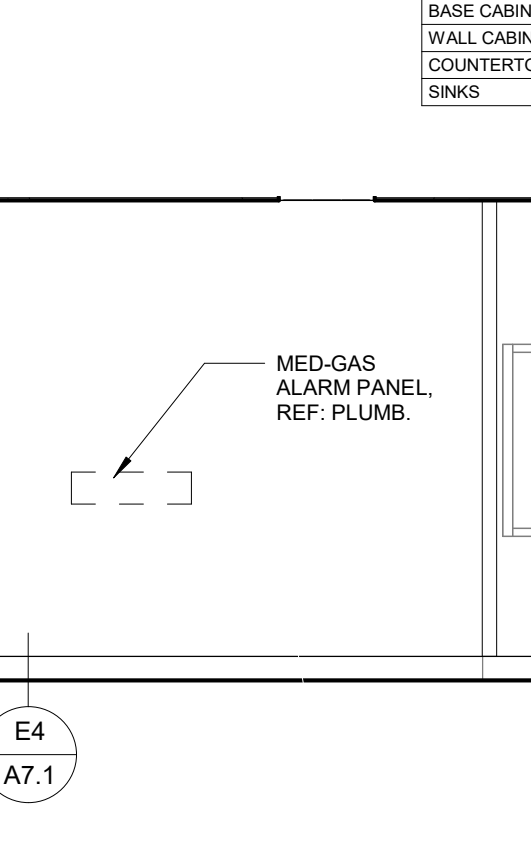
E2 SECTION DETAIL AT SOLID SURFACE BACKSPLASH  
3" = 1'-0"



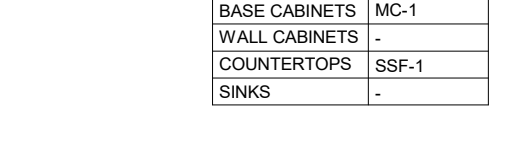
C2 CASEWORK SECTION  
1 1/2" = 1'-0"



B2 PATHOLOGY - NORTH  
1/4" = 1'-0"

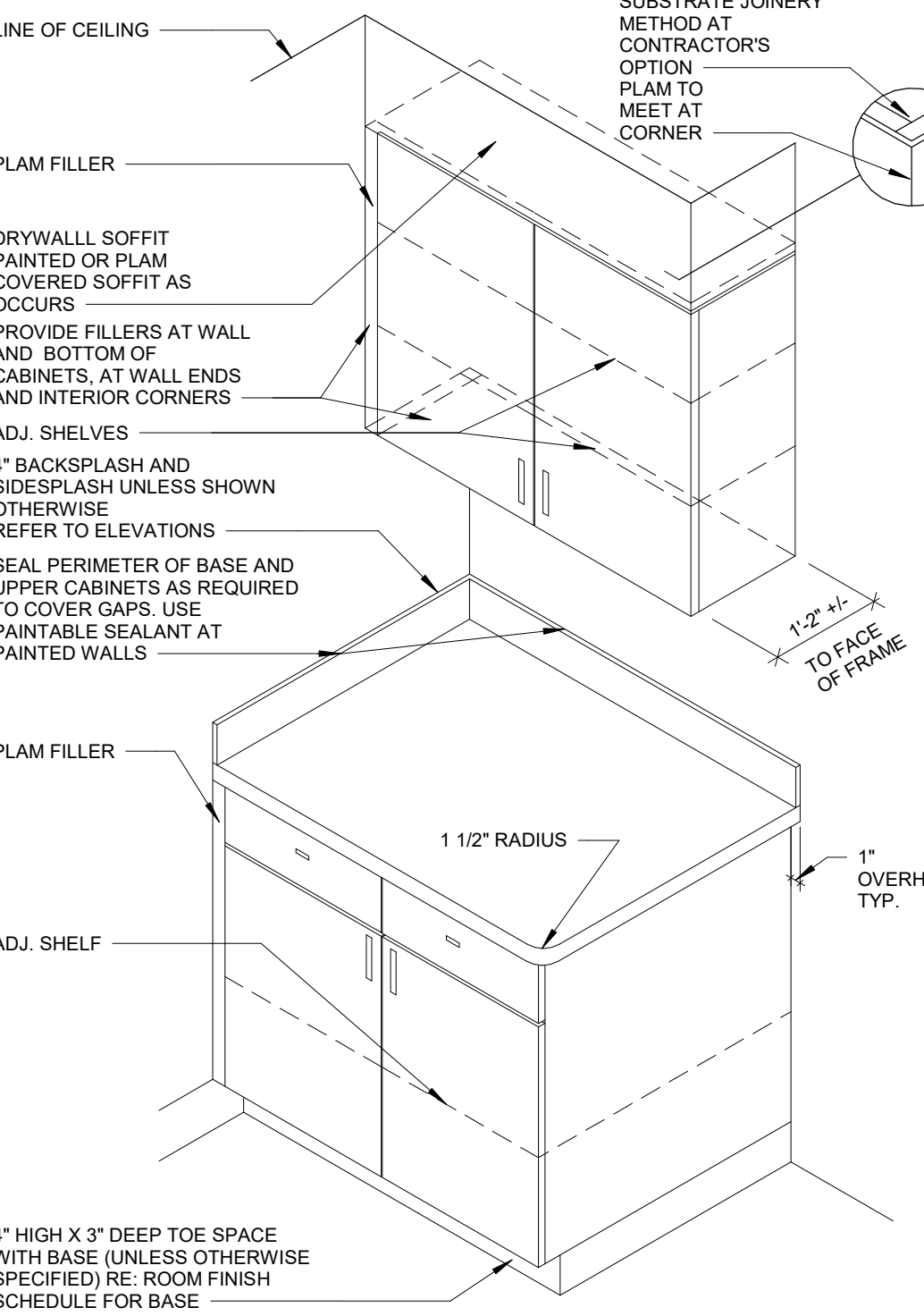


A3 HYBRID OR - EAST  
1/4" = 1'-0"



## GENERAL CASEWORK NOTES

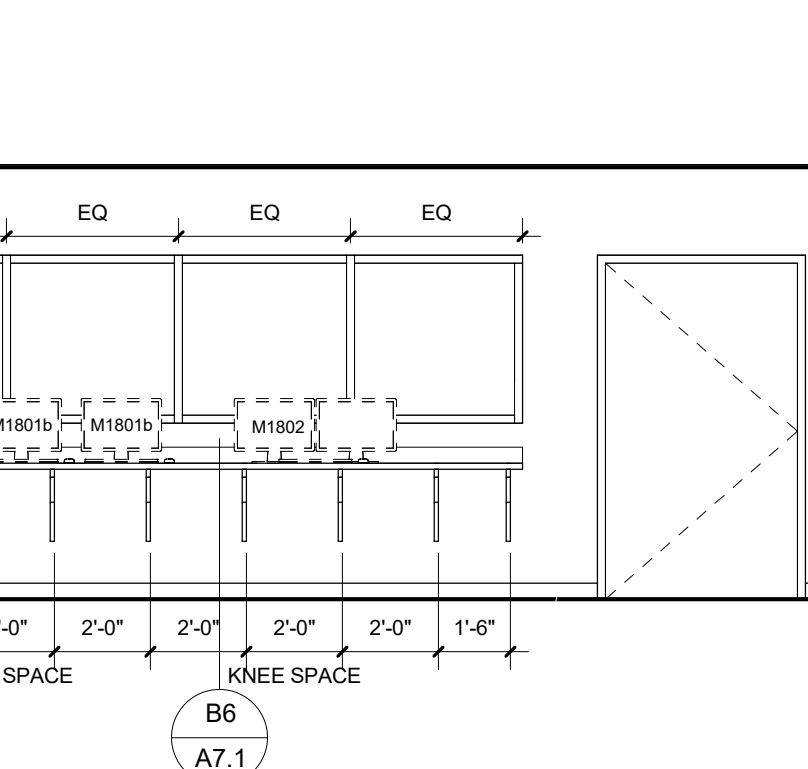
- GENERAL CASEWORK NOTES APPLY TO ALL INTERIOR ELEVATIONS.
- PROVIDE 3 MM PVC EDGE BANDING ON COUNTERTOP EDGE AND (018 MIN.) VINYL EDGING ON DRAWER AND DOOR EDGES UNLESS NOTED OTHERWISE. EDGE BANDING TO MATCH ADJACENT P. LAM. SURFACE.
- ALL EXPOSED FACES AND SHELVES TO BE WRAPPED WITH P. LAM. UNLESS NOTED OTHERWISE.
- ALL INTERIOR SURFACES TO BE WHITE MELAMINE U.N.O.
- PROVIDE WOOD BLOCKING OR 12" HIGH X 16 GA. CONTINUOUS SHEET METAL BRIDGING IN WALL AS REQUIRED FOR ADEQUATE SUPPORT OF ALL CASEWORK.
- WALL BASE TO BE INSTALLED ON ALL CASEWORK UNLESS NOTED OTHERWISE. REFER TO FINISH SCHEDULE FOR TYPE.
- "F" INDICATES FILLER PANEL, 1-1/2" MIN.
- PROVIDE FINISHED ENDS AT ALL EXPOSED ENDS OF CASEWORK.
- ALL ELECTRICAL, MECHANICAL, AND PLUMBING ITEMS SHOWN IN ELEVATION ARE FOR REFERENCE AND LOCATION ONLY. REFER TO MEP DRAWINGS FOR SIZES, TYPES AND QUANTITIES.
- ALL SOFFITS ABOVE CASEWORK TO BE P. LAM. UNLESS NOTES OTHERWISE.



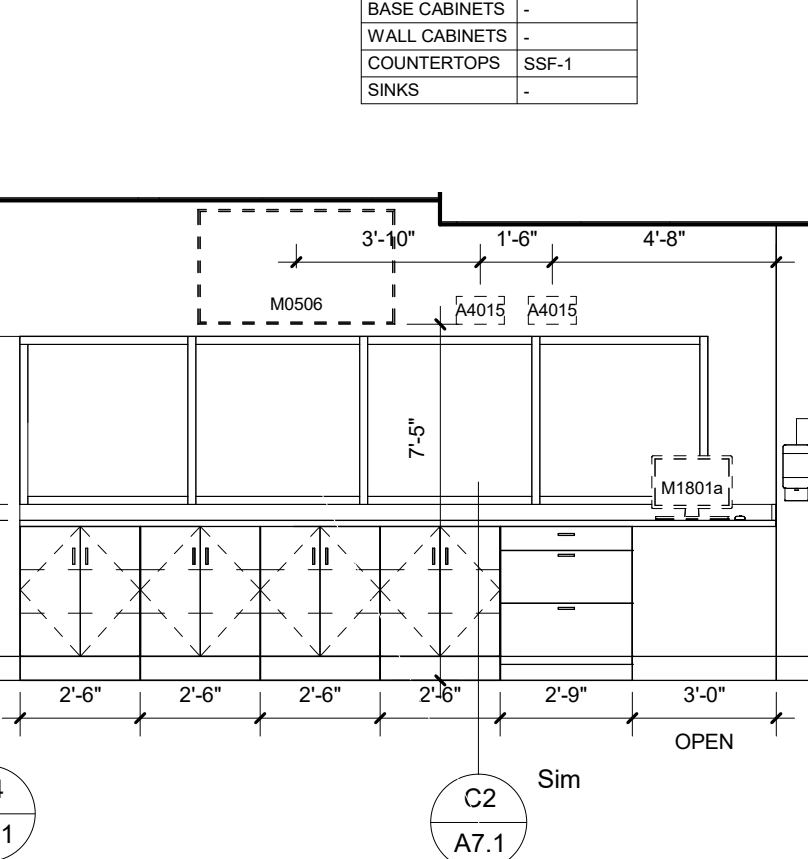
### TYP. CABINET NOTES:

- PROVIDE PLAM FILLER WHERE CABINETS BUTT UP TO WALLS.
- ALL COUNTERTOPS HAVE A 4" BACKSPLASH (MATERIAL TO MATCH COUNTERTOP) AND OUTSIDE CORNERS HAVE 1 1/2" RADIUS EXCEPT WHERE NOTED OTHERWISE.
- CASEWORK MFR. TO SUPPLY (2) - 2" (GROMMETS PER KNEESPACE. GROMMETS TO BE INSTALLED IN FIELD AS DIRECTED BY OWNER. COLOR TO BE SELECTED BY ARCHITECT.
- PLASTIC LAMINATE COUNTERTOP EDGES SHALL BE 3 MM PLASTIC. COLOR AS SELECTED BY ARCHITECT.)

C1 CASEWORK ISOMETRIC  
1 1/2" = 1'-0"



B1 CONTROL ROOM - SOUTH  
1/4" = 1'-0"



A1 HYBRID OR - NORTH  
1/4" = 1'-0"



7/13/2022 11:16:12 AM

License - Missouri WA-2011012130

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**SLE HYBRID OR**  
**100 NE Saint Luke's Blvd**  
**Lee's Summit, MO 64086**

Date 5/31/2022  
Job Number 3-20034  
Drawn By AF  
Checked By Checker

Revision  
Number Date Description  
2 07.13.22 ADD #2 - CITY

**A7.1**

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INTERIOR ELEVATIONS & DETAILS



VIEW KEY		
<div> <div>NAME</div> <div>LEVEL NAME</div> <div>10'-0"</div> <div>HEIGHT ABOVE PROJECT 0'-0"</div> </div>	<div> <div>1</div> <div>INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL</div> </div>	
<div> <div>INDICATES DIRECTION OF TRUE NORTH</div> <div>PLAN OR DETAIL NUMBER</div> <div>PLAN OR DETAIL NAME</div> <div>1/8" = 1'-0"</div> <div>PLAN OR DETAIL SCALE</div> </div>		
<div> <div>INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS</div> <div>DETAIL REFERRED TO BY SECTION CUT</div> <div>SHEET DETAIL IS LOCATED ON</div> </div>		
<div> <div>LINE TYPE AND TAG KEY:</div> <div>NEW WORK BY THIS CONTRACTOR (WIDE LINE)</div> <div>----- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)</div> <div>----- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)</div> <div>EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)</div> <div>----- EXISTING</div> <div>----- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)</div> <div>----- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)</div> <div>HALFTONING DOES NOT MODIFY SCOPE.</div> <div>TAG-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING</div> <div>TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST</div> <div>INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL</div> </div>		

CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.G.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
N.C.C.	NURSE CALL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

PLUMBING SYMBOL LIST		
NOT ALL SYMBOLS MAY APPLY.		
SYMBOL:	DESCRIPTION:	
	ACID VENT	
	ACID WASTE	
	COMPRESSED AIR	
	CARBON DIOXIDE	
	COLD WATER - POTABLE	
	DRAIN	
	DEIONIZED WATER	
	DRAIN - MEDICAL GAS	
	DRAIN TILE	
	MEDICAL EQUIPMENT AIR	
	EMERGENCY OXYGEN	
	FUEL OIL RETURN	
	FUEL OIL SUPPLY	
	NATURAL GAS	
	GAS REGULATOR VENT	
	SANITARY DRAINAGE (GREASE SANITARY DRAINAGE)	
	GREASE VENT	
	HOT WATER - POTABLE	
	HOT WATER CIRCULATING - POTABLE	
	HOT WATER - POTABLE NUMBER INDICATES TEMP	
	HOT WATER CIRC. - POTABLE NUMBER INDICATES TEMP	
	INSTRUMENT AIR	
	MEDICAL AIR	
	MEDIUM PRESSURE GAS	
	MEDICAL VACUUM	
	NITROGEN	
	NON-POTABLE COLD WATER	
	NON-POTABLE HOT WATER	
	NITROUS OXIDE	
	OXYGEN	
	PROPANE GAS	
	PUMPED DISCHARGE	
	PURE WATER	
	REVERSE OSMOSIS WATER	
	SANITARY DRAINAGE	
	SOFT COLD WATER	
	SOFT HOT WATER	
	STORM DRAINAGE (ROOF SQUARE FOOTAGE)	
	STORM DRAINAGE (SECONDARY)	
	SOFT TEMPERED WATER	
	TEMPERED WATER	
	VENT	
	LAB VACUUM	
	SERVICE WATER - POTABLE	
	WASTE ANESTHESIA GAS DISPOSAL	
	PIPE CONTINUATION	
	PIPE CAP	
	PIPE DOWN	
	PIPE UP OR UP/DOWN	
	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)	
	PITCH PIPE IN DIRECTION	
	DIRECTION OF FLOW IN PIPE	
	ROUTE TO DRAIN	
	ROOF DRAIN PROPERTIES	SYMBOL SIZE (ROOF SQ. FT.)
	DIELECTRIC CONNECTION	
	UNION/FLANGE	
	SHUTOFF VALVE NORMALLY OPEN	
	SHUTOFF VALVE NORMALLY CLOSED	
	BALANCING VALVE (NUMBER INDICATES GPM)	
	CHECK VALVE	
	BACKFLOW PREVENTER	
	SOLENOID VALVE	
	"WYE" - STRAINER	
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP	
	FLEXIBLE CONNECTION	
	MANUAL AIR VENT	
	DRAIN VALVE WITH HOSE CONNECTION AND CAP	
	SAFETY/RELIEF VALVE	
	VACUUM BREAKER	
	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)	
	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)	
	TEMPERATURE SENSOR WITH WELL	
	THERMOMETER WITH WELL (DIAL TYPE)	
	THERMOMETER WITH WELL (FILLED TYPE)	
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB	
	PRESSURE REDUCING VALVE (LIQUID/GAS)	
	PUMP	
	METER	
	ALIGNMENT GUIDE	
	PIPE ANCHOR	
	EXPANSION JOINT	
	#.#" IS THE EXPANSION TRAVEL INCHES	
	AIR ADMITTANCE VALVE	
	VALVE BOX	
	MEDICAL GAS OUTLET (MGO)	
	ALARM PANEL	
	HEADWALL	
	SINGLE GAS OUTLET (AIR)	
	SINGLE GAS OUTLET (OXYGEN)	
	SINGLE GAS OUTLET (VACUUM)	
	NITROGEN PRESSURE CONTROL CABINET	
	PRESSURE TRANSDUCER WITH ALARM WIRING	

PLUMBING ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
CB	CATCH BASIN
CI	CAST IRON
CO	CLEANOUT
CS	CLINICAL SINK
DB	DIALYSIS BOX
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
E	EXISTING
EE	EMERGENCY EYEWASH
ES	EMERGENCY SHOWER
ESE	EMERGENCY SHOWER/EYEWASH
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FM	FLOW METER
FS	FLOOR SINK
GD	GARBAGE DISPOSER
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
IE	INVERT ELEVATION (FOR REFERENCE ONLY)
LAV	LAVATORY
MB	MOP BASIN
MH	MANHOLE
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NT	NEUTRALIZATION TANK
OS	OIL SEPARATOR
RD	ROOF DRAIN
SCCR	SHORT CIRCUIT CURRENT RATING
SH	SHOWER
SINK	SINK
SS	SERVICE SINK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TYP	TYPICAL
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WATER HEATER
WMF	WASHING MACHINE FIXTURE
WM	WATER METER
WS	WATER SOFTENER
UB	UTILITY BOX
UON	UNLESS OTHERWISE NOTES
YCO	YARD CLEANOUT

### MECHANICAL RENOVATION NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDINGS.
  - NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
  - FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
  - EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
  - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL, AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS.
  - CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
  - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
  - WHERE EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, PIPING, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
  - PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
  - OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
  - MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.

### MECHANICAL PHASING NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO GENERAL CONTRACTOR'S INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
  - REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
  - PROVIDE TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ZONE VALVES, ZONE ALARMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
  - INSTALL TEMPORARY DUCTWORK, PIPING, SHUTOFF VALVES, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT
  - PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.

### PLUMBING GENERAL NOTES:

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
- CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL, AND GOVERNING AUTHORITIES.
- ALL FIXTURES SHALL CONFORM TO FEDERAL ACT 5 3074.
- INVERT ELEVATIONS ARE FROM EXISTING DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
- VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
- REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
- FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER PIPING SERVING EACH ROOM WITH FIXTURES. ANGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES.
- EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED.
- P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE.

### MEDICAL GAS GENERAL NOTES:

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER IS THE BASIS OF DESIGN.
- COORDINATE EXACT LOCATIONS/ELEVATIONS OF MEDICAL GAS OUTLETS WITH ARCHITECTURAL DRAWINGS.
- REFER TO MEDICAL GAS MATERIAL LIST FOR PIPE SIZES TO INDIVIDUAL OUTLETS.

### MECHANICAL GENERAL NOTES:

- THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.
- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
  - DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
  - COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY COORDINATION WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
  - REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
  - ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
  - EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
  - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
  - EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
  - IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
  - SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
  - CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
  - WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
  - EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
  - DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
  - MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE. INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
  - MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH/DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING, DUCTWORK, PIPING, ETC.
  - PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
  - DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

PLUMBING + MEDICAL GAS SHEET INDEX	
P000	PLUMBING + MEDICAL GAS COVERSHEET
P111	FIRST FLOOR DEMOLITION - PLUMBING
P121	FIRST FLOOR DEMOLITION - MED GAS
P210	UNDERSLAB - PLUMBING
P211	FIRST FLOOR - PLUMBING
P221	FIRST FLOOR - MEDICAL GAS
P600	PLUMBING SCHEDULES
GRAND TOTAL: 7	

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REFERENCE SCALE IN INCHES

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RELEASED FOR CONSTRUCTION

Engineering Services Department  
1000 N. Grand, Missouri  
64108-2022

BRUCE ELDON, D.  
HART  
NUMBER  
2-2267  
PROFESSIONAL ENGINEER

Bruce E. Hart - #E-22817

07/13/2022

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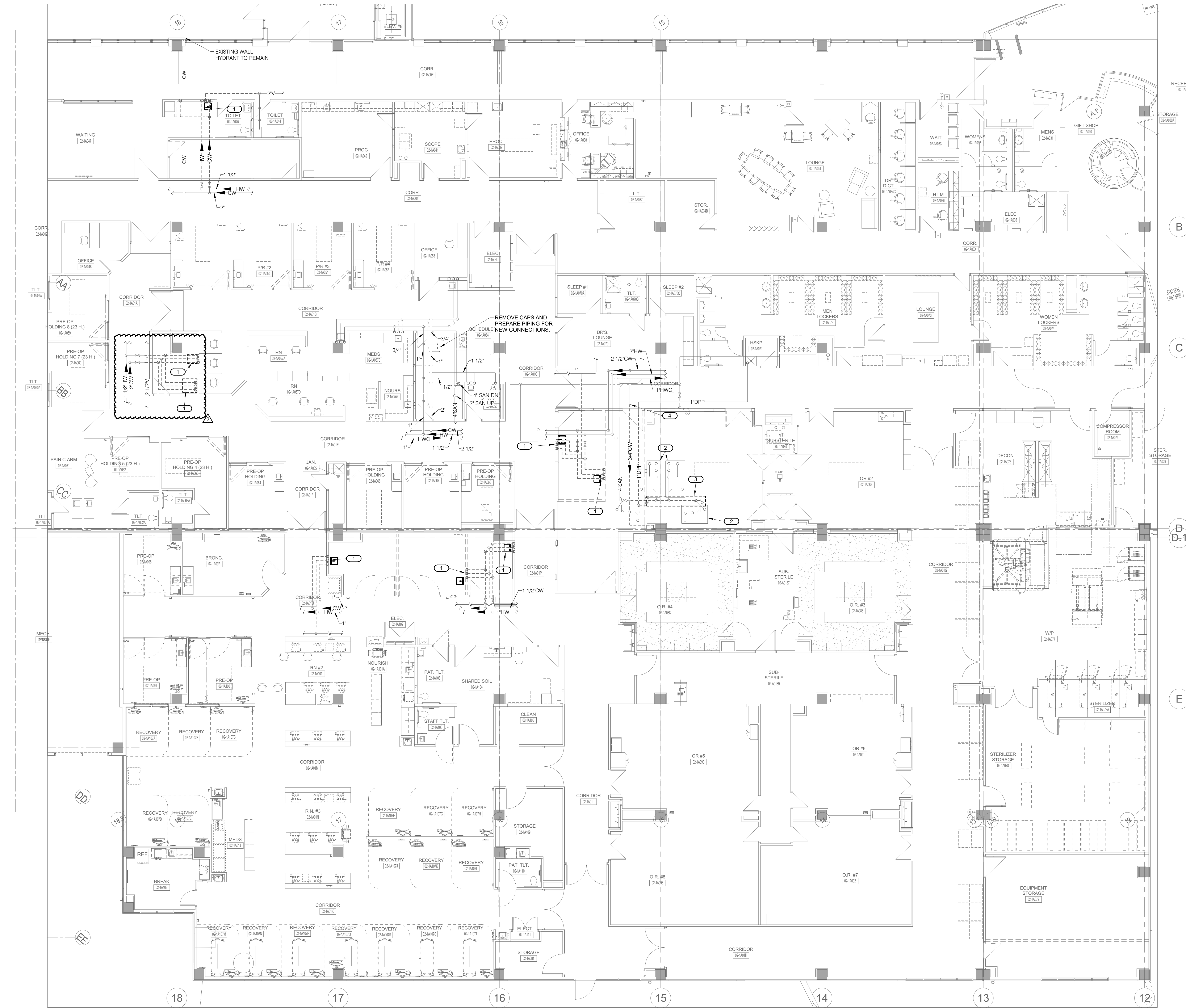
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Missouri: F001325536





- SHEET NOTES:**
1. FIELD VERIFY EXACT LOCATIONS AND SIZES OF EXISTING SANITARY WASTE AND VENT PIPING SERVING PATIENT ROOMS ON SECOND FLOOR DIRECTLY ABOVE O.R. #1. AS WELL AS EXISTING SHEET METAL DRAIN PANS INSTALLED BELOW THAT PIPING, AND EXISTING SECONDARY DRAIN PIPING (DPP) ABOVE THE CEILING OF THE O.R. DISCONNECT, REMOVE, RELOCATE AND/OR RE-WORK THAT SANITARY PIPING, THOSE DRAIN PANS, AND THE SECONDARY DRAIN PIPING AS REQUIRED TO ALLOW FOR INSTALLATION OF NEW STRUCTURAL SUPPORTS, SURGICAL BOOMS, OTHER MEDICAL EQUIPMENT, MECHANICAL DUCTWORK, AIR TERMINALS, ETC. ALSO INSTALL NEW SHEET METAL DRAIN PANS BELOW ANY EXISTING SANITARY PIPING TO REMAIN THAT WAS NOT DIRECTLY ABOVE THE OLD (SMALLER) O.R. BUT ENDS UP ABOVE THE NEW (LARGER) O.R. ALL RELOCATED NEW PORTIONS OF DRAIN PANS SHALL BE 3" DEEP, SEALED WATER-TIGHT, AND SHALL BE PITCHED DOWN TO A 1" SECONDARY DRAIN PIPE CONNECTION AT THE LOWEST PART OF THE PAN. THE 1" DPP PIPING FROM EACH PAN SHALL BE PITCHED TO DRAIN BY GRAVITY AND SHALL EITHER DRAIN INTO A NEARBY PAN, OR CONNECT INTO THE EXISTING 1" DPP PIPING EXISTING THE O.R.
- KEYNOTES:**
1. DISCONNECT AND REMOVE SINK OR LAVATORY, INCLUDING ACCESSORIES. FIELD VERIFY ROUTING OF HOT, COLD AND VENT PIPING AND REMOVE PIPING NOT REQUIRED TO REMAIN BACK TO VALVES OR MAINS AND CAP. CAP SANITARY WASTE PIPING IN WALL OR BELOW SLAB AND PATCH WALL OR SLAB AS REQUIRED.
  2. EXISTING UPPER SHEET METAL DRAIN PAN FOR EXISTING SANITARY WASTE AND VENT PIPING IN STRUCTURAL PAN SPACE, SERVING SECOND FLOOR, REFER TO SHEET NOTE #1.
  3. EXISTING LOWER SHEET METAL DRAIN PAN FOR EXISTING 4" SANITARY WASTE MAIN PIPING, CUT VERTICAL PIPES AND REMOVE THE LOWER PIPING, LOWER DRAIN PAN AND SECONDARY DRAIN PIPING AS REQUIRED TO AVOID INTERFERENCE WITH NEW WORK BY OTHER TRADES. PROTECT UPPER DRAIN PANS AND REMAINING PIPING FOR NEW CONNECTIONS, RE: SHEET P211.
  4. 3/4" PIPING FORMERLY SERVED AN EXTERIOR WALL HYDRANT (BEFORE THE FIRST O.R. ADDITION PROJECT) AND PIPING MAY HAVE BEEN ABANDONED ABOVE CEILING REMOVE PIPING BACK TO CORRIDOR AND CAP, SO THAT NO PIPING REMAINS ABOVE THE NEW O.R., #1.

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**SLE - HYBRID OR**  
**100 NE Saint Luke's Blvd**  
**Lee's Summit, MO 64086**

Date 05/31/2022  
Job Number 3-20034  
Drawn By MJL  
Checked By MJL

Revision  
Number Date Description  
2 07/13/22 ADDENDUM 2

**P111**

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FIRST FLOOR DEMOLITION -  
PLUMBING

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

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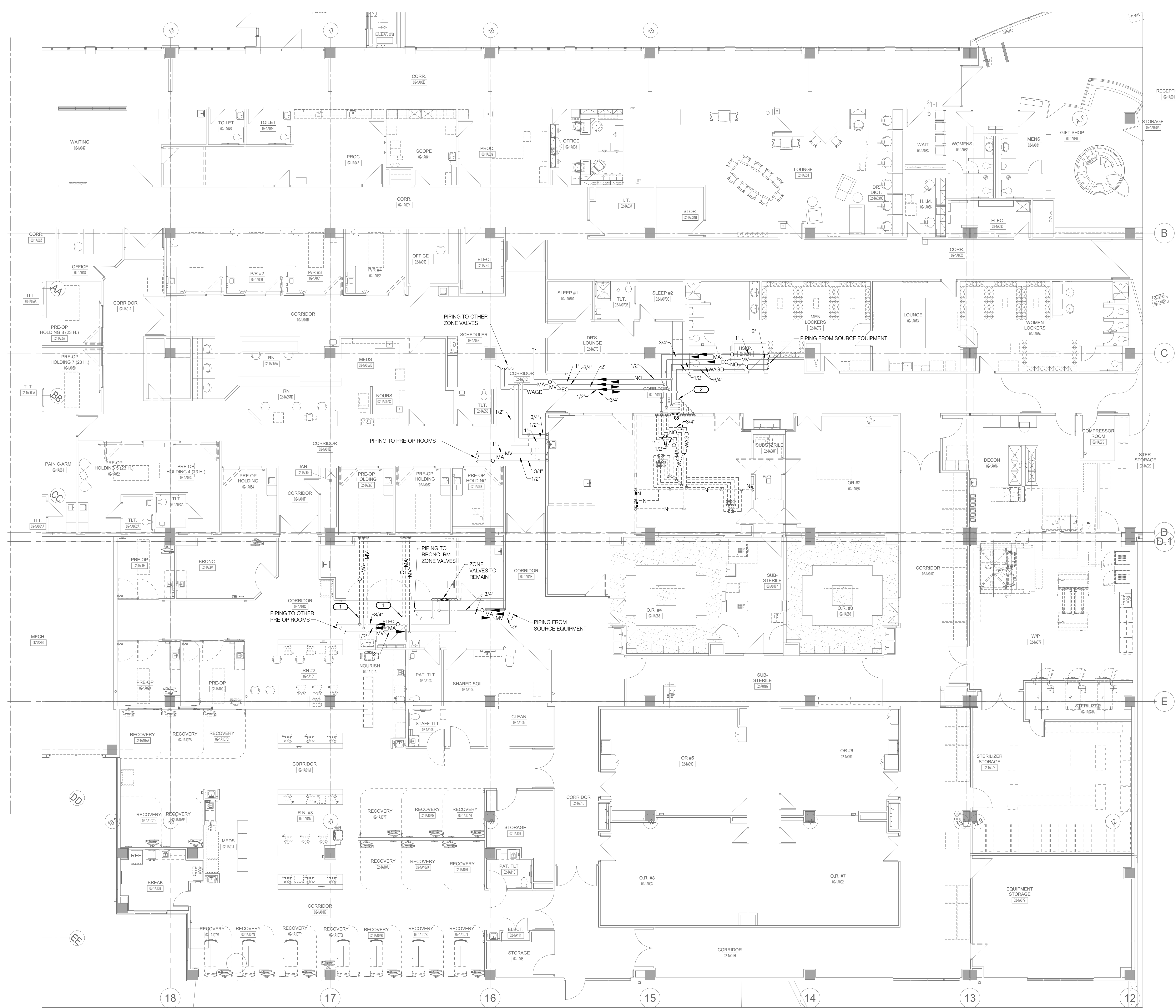


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**1 FIRST FLOOR DEMOLITION - MEDICAL GAS**  
1/8" = 1'-0"

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**SHEET NOTES:**  
1. REFER TO P000 FOR GENERAL NOTES AND SYMBOLS.

**KEYNOTES:** **C**  
1. CUT AND CAP 1/2" O, 1/2" MA AND 1" VAC AND REMOVE PIPING AS INDICATED, INCLUDING ASSOCIATED WALL. OUTLETS/INLETS NOT SHOWN (APPROXIMATELY 2 O OUTLETS, 2 MA OUTLETS AND 4 VAC INLETS PER PRE-OP ROOM). PATCH WALL AS REQUIRED.  
2. CUT 1/2" O ON DOWNSTREAM SIDE OF THE NORMAL AND EMERGENCY OXYGEN SERVICE (CHANGEOVER) VALVES. THE SERVICE VALVES SHALL REMAIN. ALSO CUT 1" MV, 3/4" WAGO, 3/4" N, 1/2" MA AND 1/2" NO AND REMOVE PIPING, ZONE VALVES, CEILING OUTLETS/INLETS (APPROX. QUANTITY OF 20), NITROGEN CONTROL PANEL, WALL OUTLETS (APPROX. QUANTITY OF 2) AND ALARM PANEL SERVING O.R. #1. PROTECT REMAINING PIPING FOR NEW CONNECTIONS, RE: SHEET P221.

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ACI/Boland Architects  
Bruce E. Hart - PE-22817  
07/13/2022

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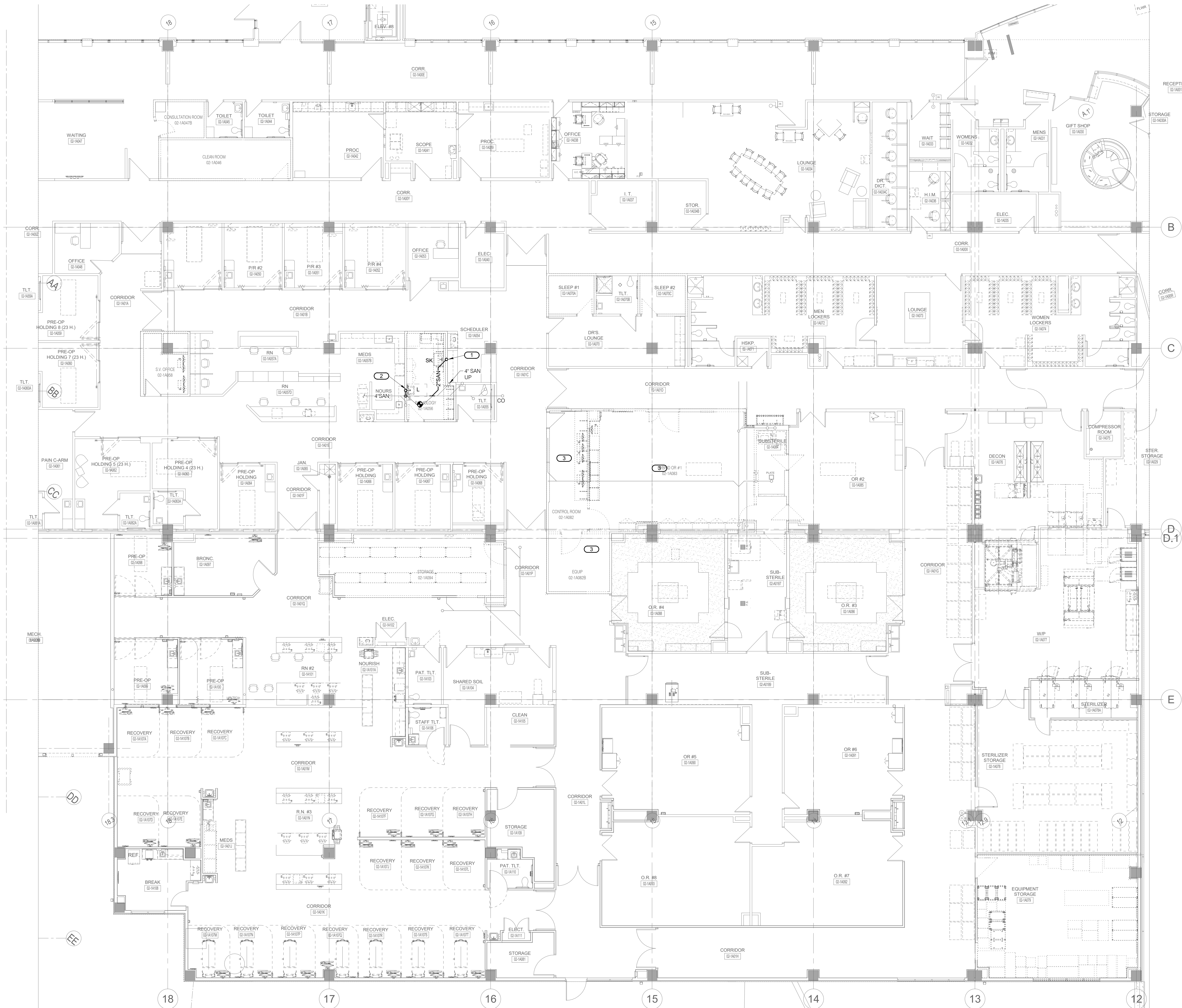
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**100 NE Saint Luke's Blvd**  
**Lee's Summit, MO 64086**

Date	05/31/2022	
Job Number	3-20034	
Drawn By	MJL	
Checked By	MJO	
Revision		
Number	Date	Description

**P121**  
FIRST FLOOR DEMOLITION - MED GAS



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OR\_Crv



**SHEET NOTES:**  
1. REFER TO P000 FOR GENERAL NOTES AND SYMBOLS.

**KEYNOTES:** **#**  
1. OLD DRAWINGS SHOWED A SINK NEAR THIS LOCATION THAT WAS LATER REMOVED. IF POSSIBLE, THE 2" SAN FROM THE NEW SINK SHALL CONNECT TO (PREVIOUSLY-CAPPED) 2" SAN PIPING IN THE WALL ABOVE THE SLAB. IF NOT POSSIBLE, THEN SAWCUT SLAB AS REQUIRED TO INSTALL NEW 2" SAN BELOW SLAB AS INDICATED, THEN PATCH SLAB TO MATCH EXISTING.  
2. IF POSSIBLE, THE 2" SAN FROM THE NEW LAVATORY SHALL CONNECT TO THE EXISTING 2" SAN IN THE WALL ABOVE THE SLAB (SERVING THE ADJACENT SINK ON OPPOSITE SIDE OF WALL). IF NOT POSSIBLE, THEN SAWCUT SLAB AS REQUIRED TO CONNECT NEW 2" SAN INTO TOP OF EXISTING 4" SAN BELOW SLAB AS INDICATED, THEN PATCH SLAB TO MATCH EXISTING.  
3. THE MEP WORK SHOWN IN THIS ROOM IS PRELIMINARY AND WAITING ON FINAL ROOM LAYOUT AND VENDOR EQUIPMENT INFORMATION. REFER TO SEPARATE NARRATIVE ISSUED WITH DOCUMENTS FOR ADDITIONAL INFORMATION FOR PRICING PURPOSES.

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**SLE - HYBRID OR**  
**100 NE Saint Luke's Blvd**  
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Date 05/31/2022  
Job Number 3-20034  
Drawn By MJL  
Checked By MJL

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UNDERSLAB - PLUMBING















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NAME

LEVEL NAME

10'-0"

HEIGHT ABOVE PROJECT 0'-0"

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INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

DETAIL REFERRED TO BY SECTION CUT

SHEET DETAIL IS LOCATED ON

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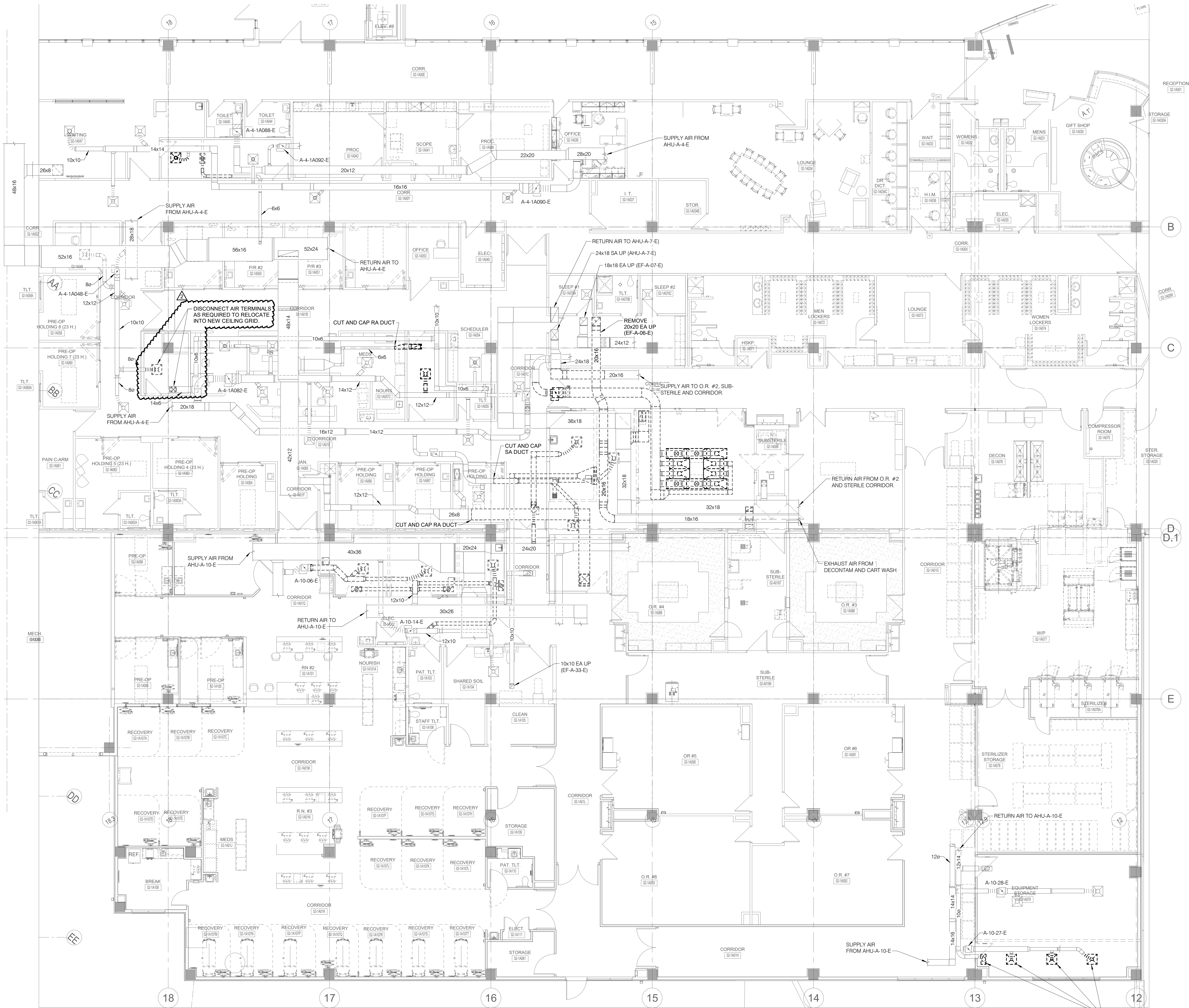
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**SHEET NOTES:**

- SOME TERMINAL AIR BOX TAGS SHOWN ON THESE DRAWINGS ARE BASED ON ROOM NUMBERS SERVED IN THE NEW WORK AND MAY NOT MATCH THE BOX TAGS IN THE FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS).
- AIR TERMINALS SHOWN TO BE DEMOLISHED MAY INSTEAD BE CLEANED AND RE-USED, IF THEY ARE IN GOOD CONDITION AND MATCH THE TYPE AND SIZE OF AIR TERMINALS IN THE NEW DESIGN.

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**Lee's Summit, MO 64086**

Date 05/31/2022  
Job Number 3-20034  
Drawn By MJL  
Checked By MJO

Revision  
Number Date Description  
2 07/13/22 ADDENDUM 2

**1 FIRST FLOOR DEMOLITION - VENTILATION**  
1"8" = 1'-0"

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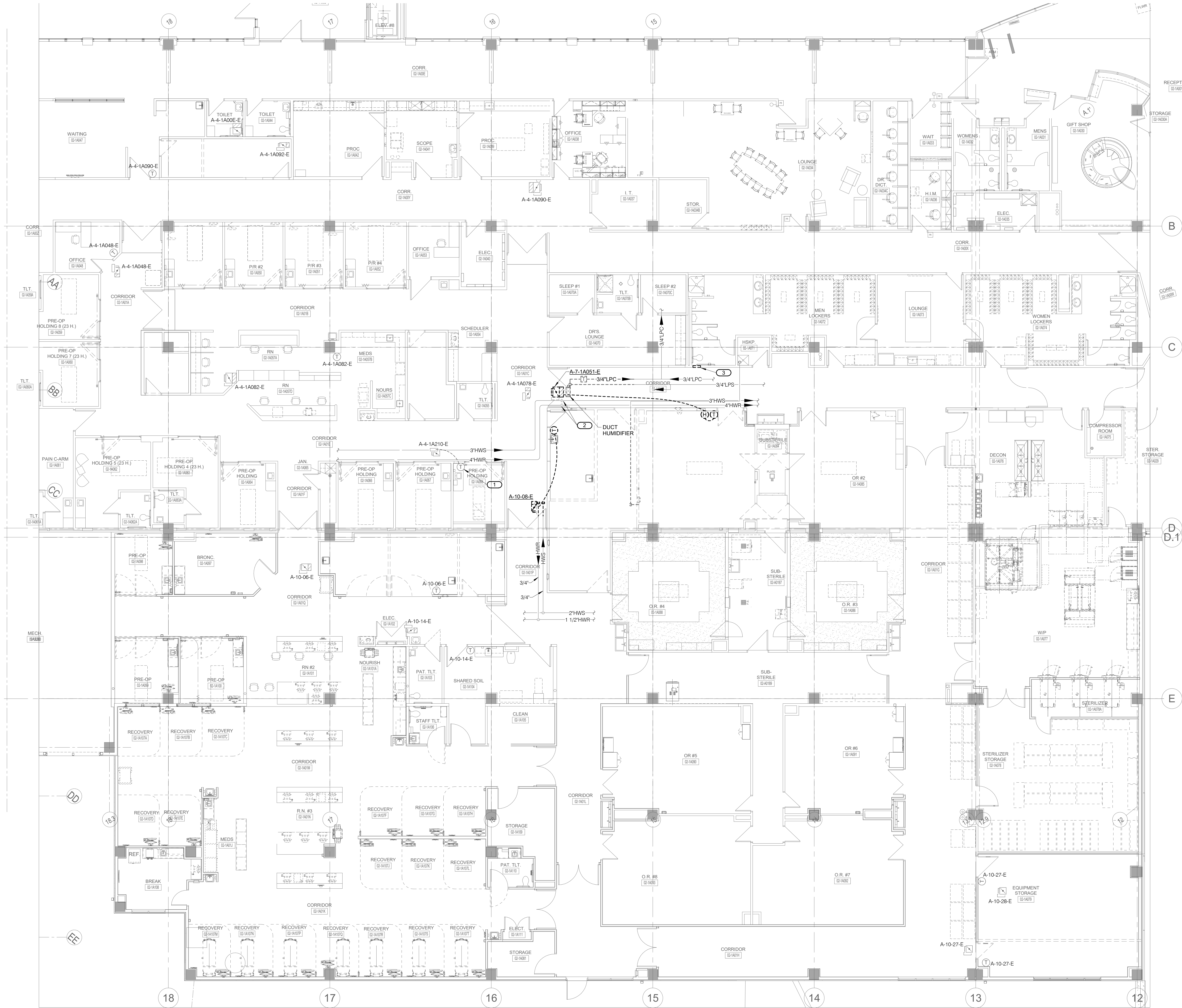
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FIRST FLOOR DEMOLITION -  
VENTILATION





# 1 FIRST FLOOR DEMOLITION - PIPING

1/8" = 1'-0"



## SHEET NOTES:

- SOME TERMINAL AIR BOX TAGS SHOWN ON THESE DRAWINGS ARE BASED ON ROOM NUMBERS SERVED IN THE NEW WORK AND MAY NOT MATCH THE BOX TAGS IN THE FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS).

## KEYNOTES:

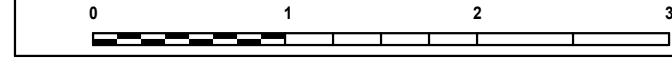
- VERIFY THERMOSTAT IS LOCATED IN THIS ROOM. IF NOT, FIELD VERIFY LOCATION, DISCONNECT THERMOSTAT AND RELOCATE IT TO THIS ROOM.
- CUT 1\"/>



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100 NE Saint Luke's Blvd  
Lee's Summit, MO 64086

Date 05/31/2022  
Job Number 3-20034  
Drawn By MJL  
Checked By MJL

Revision  
Number Date Description

M121

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FIRST FLOOR DEMOLITION - PIPING



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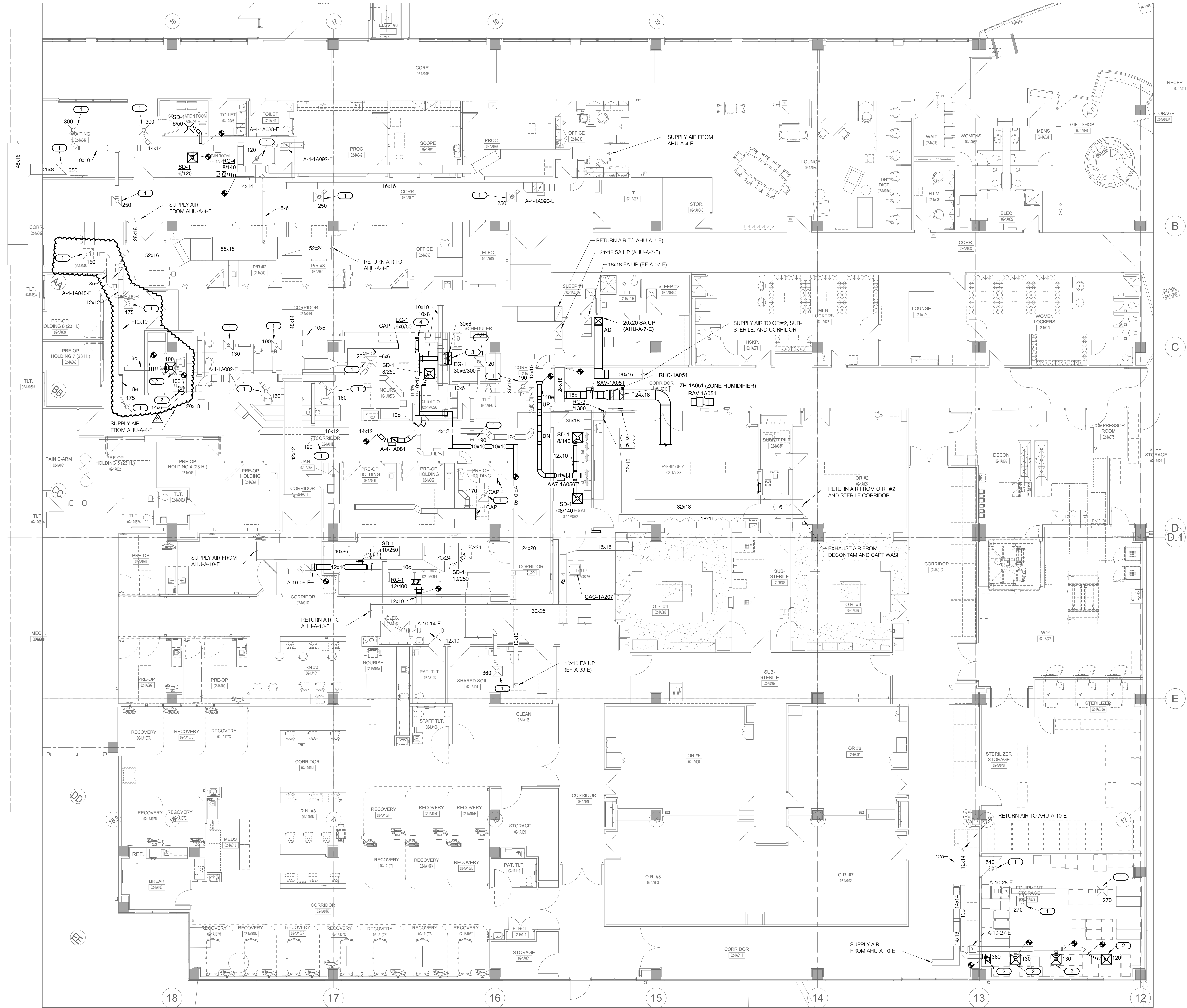
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**1 FIRST FLOOR - VENTILATION**  
1/8" = 1'-0"

- SHEET NOTES:**
- SOME TERMINAL AIR BOX TAGS SHOWN ON THESE DRAWINGS ARE BASED ON ROOM NUMBERS SERVED IN THE NEW WORK AND MAY NOT MATCH THE BOX TAGS IN THE FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS).
  - AIR TERMINALS SHOWN TO BE DEMOLISHED MAY INSTEAD BE CLEANED AND RE-USED, IF THEY ARE IN GOOD CONDITION AND MATCH THE TYPE AND SIZE OF AIR TERMINALS IN THE NEW DESIGN.

- KEYNOTES:**
- BALANCE EXISTING AIR TERMINAL TO NEW AIRFLOW RATE (CFM) INDICATED.
  - NEW LOCATION FOR AIR TERMINAL THAT WAS DISCONNECTED DURING DEMOLITION. BALANCE TO NEW AIRFLOW RATE (CFM) INDICATED.
  - 30x6 EA DOWN IN WALL TO AIR TERMINAL. INSTALL AIR TERMINAL JUST ABOVE COUNTERTOP. COORDINATE EXACT LOCATION WITH ARCHITECT.
  - MOUNT EXHAUST AIR TERMINAL INSIDE TOP OF STORAGE CABINET.
  - NEW OPERATING ROOM TEMPERATURE & HUMIDITY CONTROL PANEL. COORDINATE EXACT LOCATION WITH ARCHITECT. PANEL SHALL HAVE 7" TOUCHSCREEN AND ACCESSORIES AS REQUIRED.
  - INSTALL NEW RETURN AIR TERMINAL IN WALL OF CHASE WITH BOTTOM APPROX. 8" ABOVE FINISHED FLOOR.
  - APPROXIMATE LOCATION FOR DUCT MOUNTED RETURN AIR TEMPERATURE AND HUMIDITY SENSORS FOR THE NEW HYBRID O.R. #1. COORDINATE EXACT LOCATION TO ENSURE THESE ITEMS ARE ACCESSIBLE THROUGH AN ARCHITECTURAL CEILING ACCESS PANEL.

RELEASED FOR CONSTRUCTION  
ACI/Boland Architects  
Bruce E. Hart - #E-22817  
07/13/2022

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**SLE - HYBRID OR**  
**100 NE Saint Luke's Blvd**  
**Lee's Summit, MO 64086**

Date 05/31/2022  
Job Number 3-20034  
Drawn By MJL  
Checked By MJO

Revision  
Number Date Description  
2 07/13/22 ADDENDUM 2

**M211**  
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FIRST FLOOR - VENTILATION



BLN 360/22000825.00 - STLH-Lee's Summit- MO-Hybrid OR-MEP21\_22000825.00\_STLH-Lee's Summit- MO-Hybrid OR-Crv

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**1 FIRST FLOOR - PIPING**  
1/8" = 1'-0"

**SHEET NOTES:**

- SOME TERMINAL AIR BOX TAGS SHOWN ON THESE DRAWINGS ARE BASED ON ROOM NUMBERS SERVED IN THE NEW WORK AND MAY NOT MATCH THE BOX TAGS IN THE FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS).
- EXISTING FMCS IS A JOHNSON METASYS SYSTEM. IF A NEW FMCS NETWORK CONTROLLER OR ANY OTHER CENTRALIZED HARDWARE IS REQUIRED TO ALLOW FOR THE NEW CONTROLS, OR IF NEW COMMUNICATIONS WIRING IS REQUIRED, OR IF FMCS SOFTWARE UPDATES ARE REQUIRED, THEN ANVALL OF THOSE SHALL BE INCLUDED IN THE SCOPE OF WORK.

**KEYNOTES:** **B**

- INSTALL TEMPERATURE AND HUMIDITY SENSORS FOR HYBRID OR #1 1A051 IN THE NEW RETURN AIR DUCTWORK DOWNSTREAM OF RAY-1A051 AND UPSTREAM OF THE TIE-IN TO THE RETURN AIR DUCT MAIN SERVING OTHER AREAS. COORDINATE EXACT LOCATION SUCH THAT SENSORS ARE ACCESSIBLE VIA A CEILING ACCESS PANEL.

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FIRST FLOOR - PIPING

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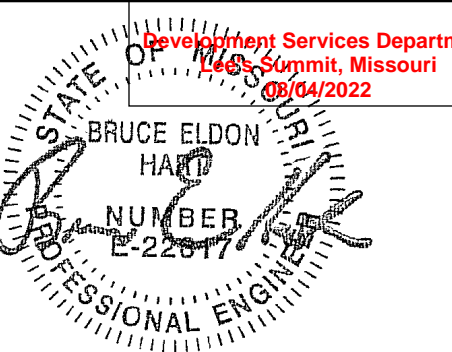
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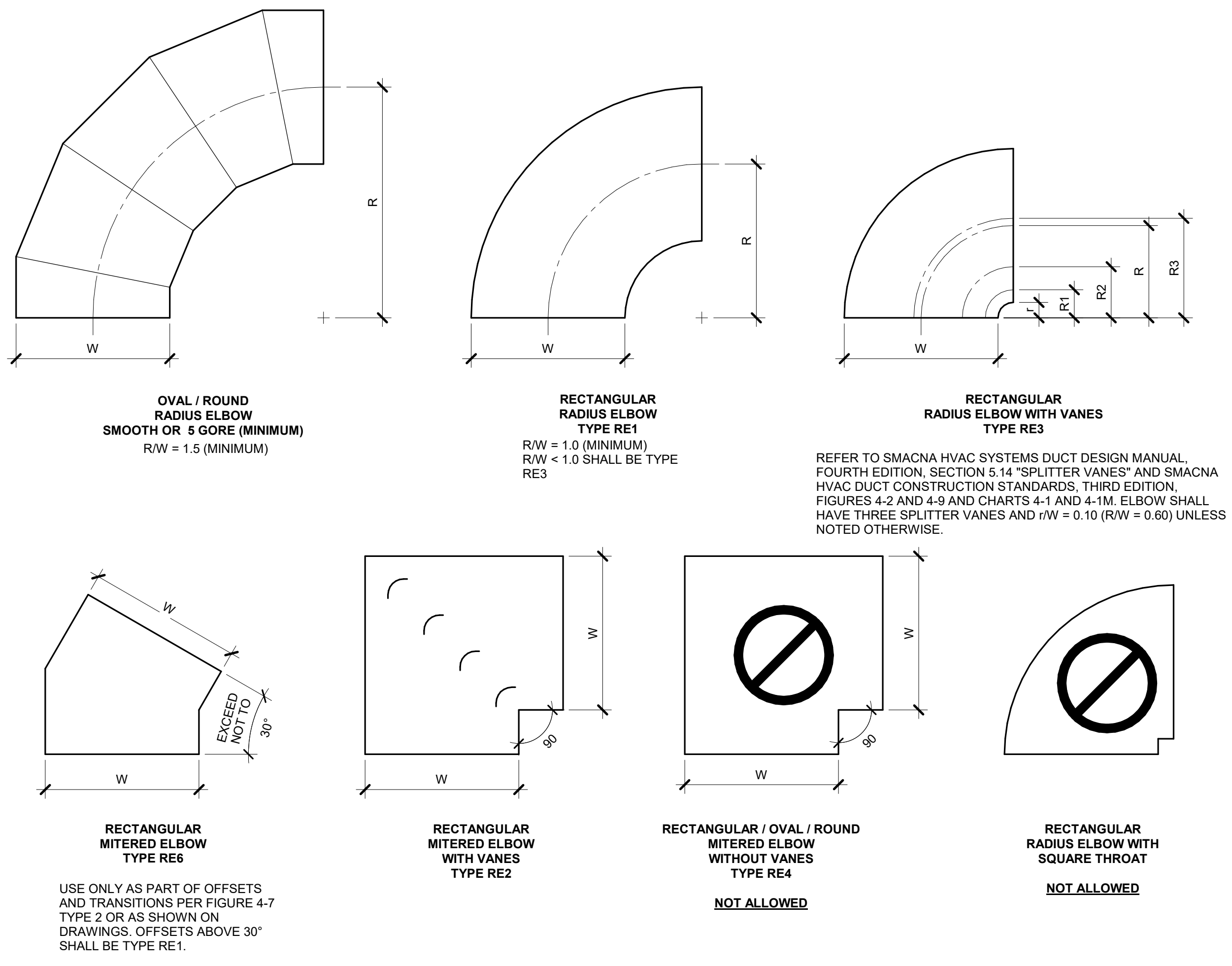


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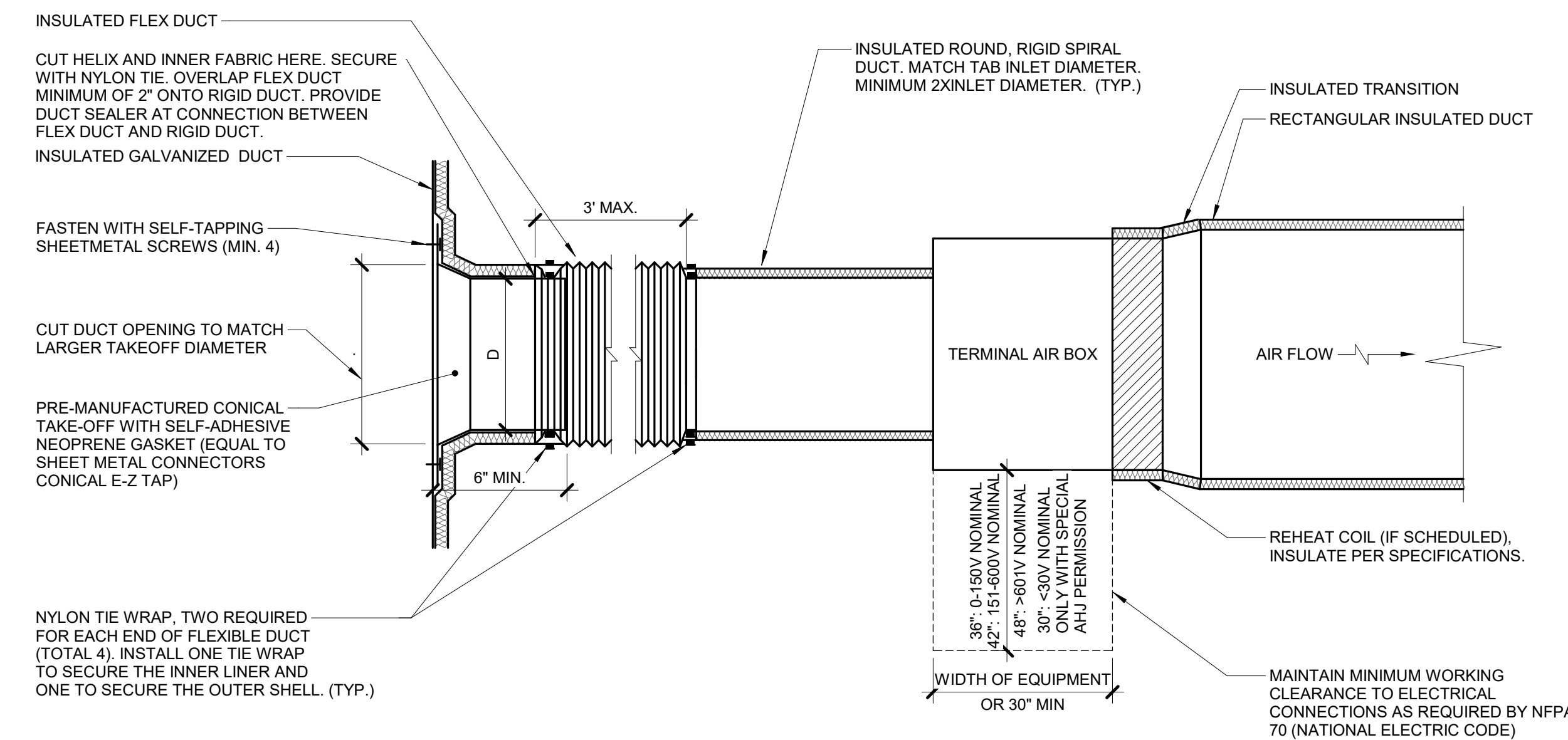
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OR\_Crv1



## 1 ELBOW CONSTRUCTION

### NOTES:

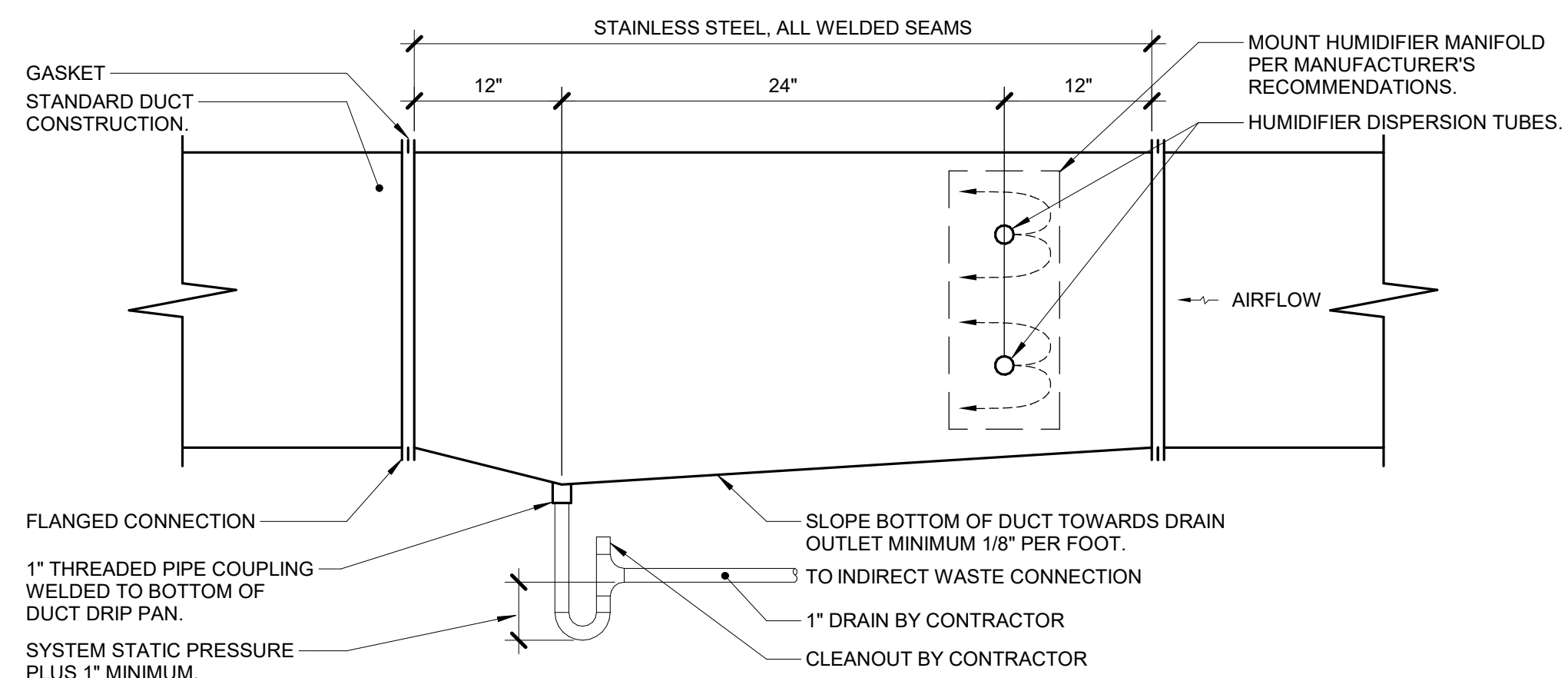
1. BEAD, CROSSBREAK, AND REINFORCE FLAT SURFACES AS IN STRAIGHT DUCT.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. DEFAULT ELBOW SHALL BE TYPE "RE1".
4. ELBOW TYPES SHALL BE INSTALLED AS SHOWN AND NOT BE SUBSTITUTED WITHOUT PERMISSION. EXCEPTION: RE1 OR RE3 MAY BE SUBSTITUTED FOR RE2.



## 4 TERMINAL AIR BOX - SINGLE DUCT - WRAPPED

### NOTES:

1. THIS DETAIL APPLIES ONLY TO TAPS OFF WRAPPED DUCTS.
2. THIS DETAIL APPLIES TO TERMINAL AIR BOXES WITH ROUND INLETS AND RECTANGULAR OUTLETS.
3. DUCT LEADING TO TAB INLET MUST BE STRAIGHT FOR 1.5 DIAMETER UPSTREAM.
4. MAINTAIN VAPOR BARRIER FROM MAIN TO BRANCH DUCT.

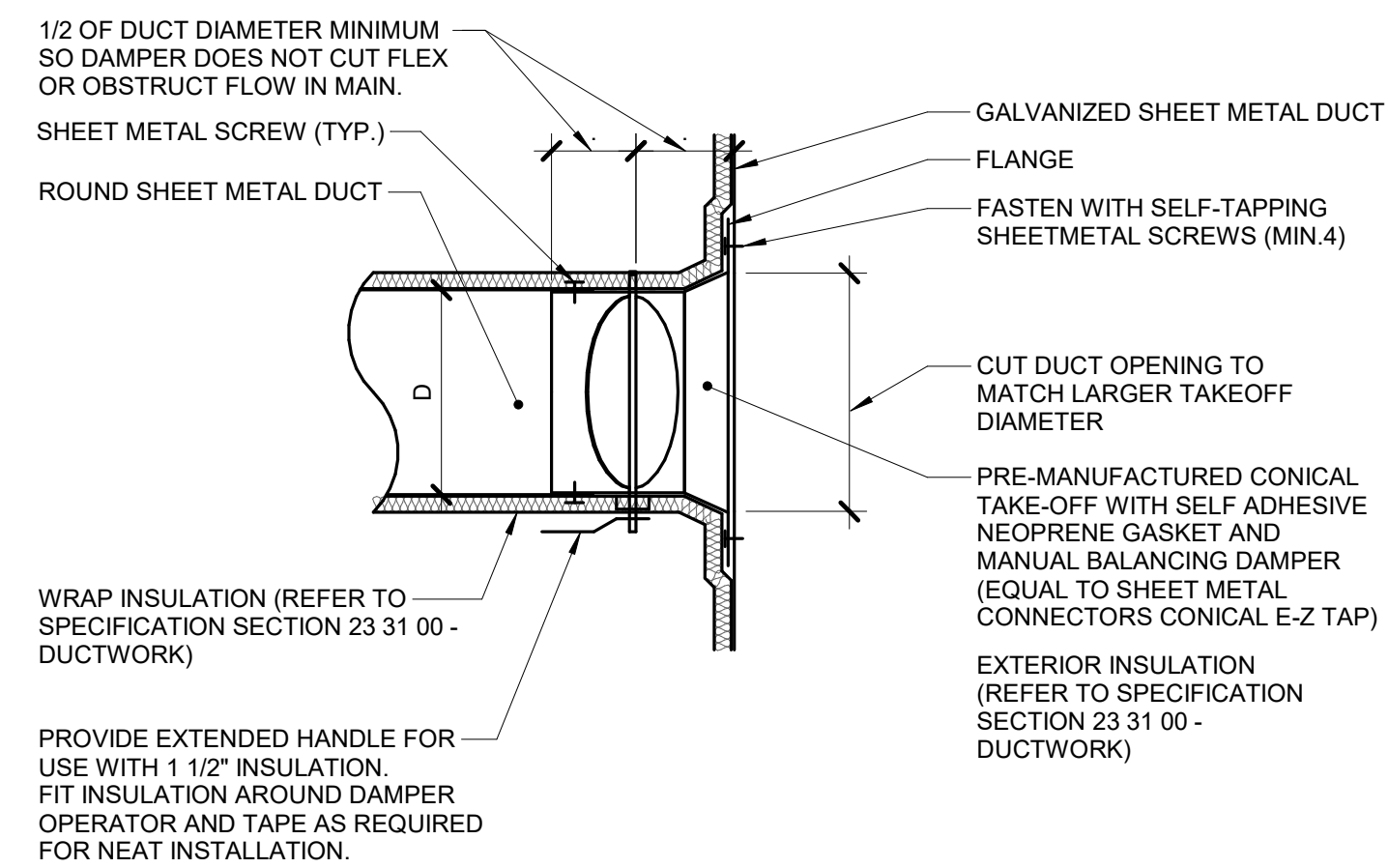


### NOTES:

1. CONSTRUCT HUMIDIFIER DUCT SECTION FROM 304L STAINLESS STEEL. FULLY WELD ALL SEAMS. WELD OR FORM ON FLANGES TO MATCH STANDARD DUCTWORK FLANGES. STAINLESS STEEL SHALL BE A MINIMUM OF 16 GAUGE, BUT NOT LESS THAN REQUIRED FOR THE PRESSURE CLASS SPECIFIED FOR THE SYSTEM.
2. COORDINATE HUMIDIFIER LOCATION AND HOLE(S) FOR STEAM INLET(S) WITH CONTRACTOR. CONTRACTOR TO SEAL AIR TIGHT WHERE PIPE PENETRATES DUCTWORK.

## 8 DUCT MOUNTED HUMIDIFIER DETAIL

NO SCALE

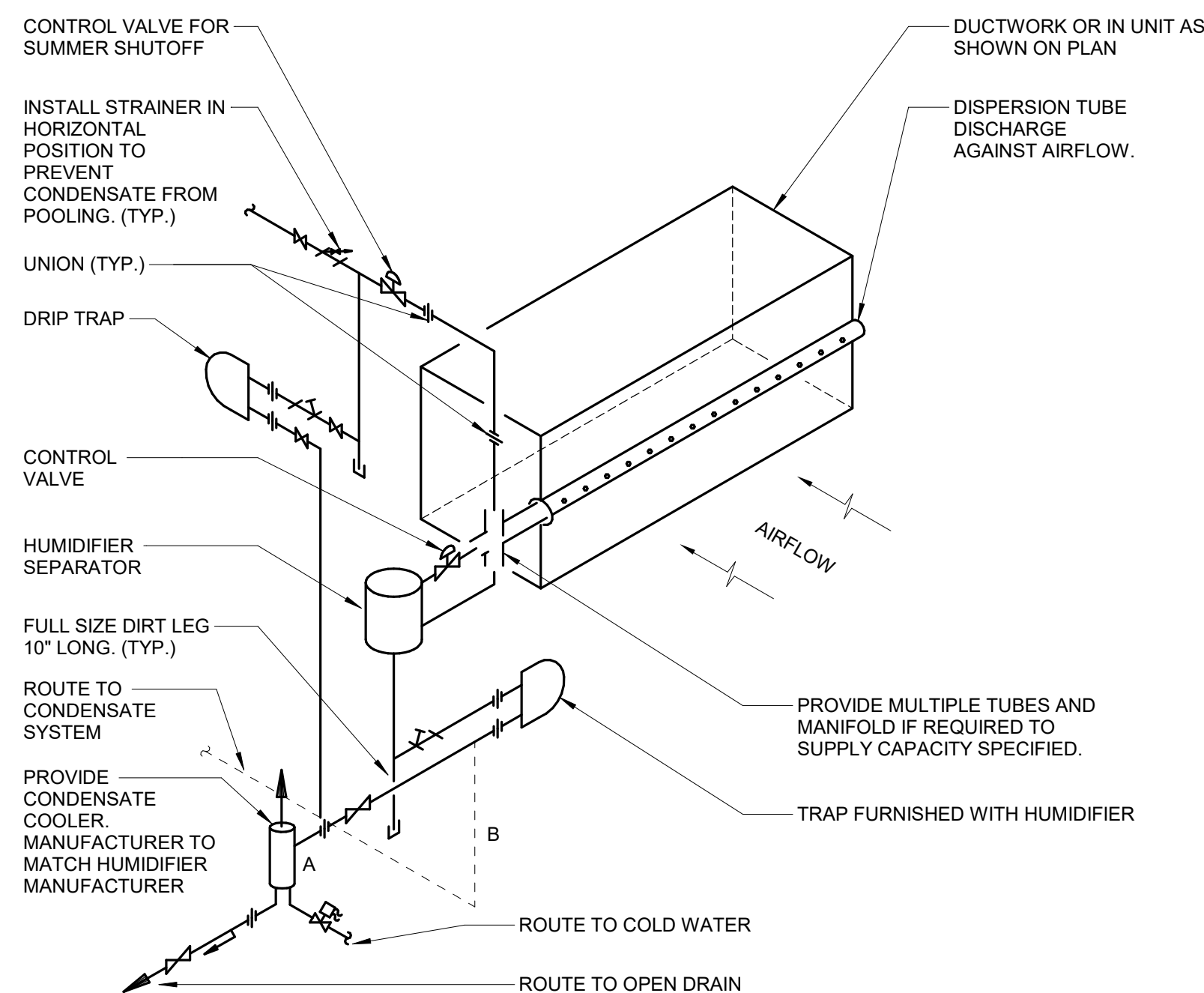


## 2 ROUND DUCT TAP CONNECTION (CONICAL/WRAPPED)

NO SCALE

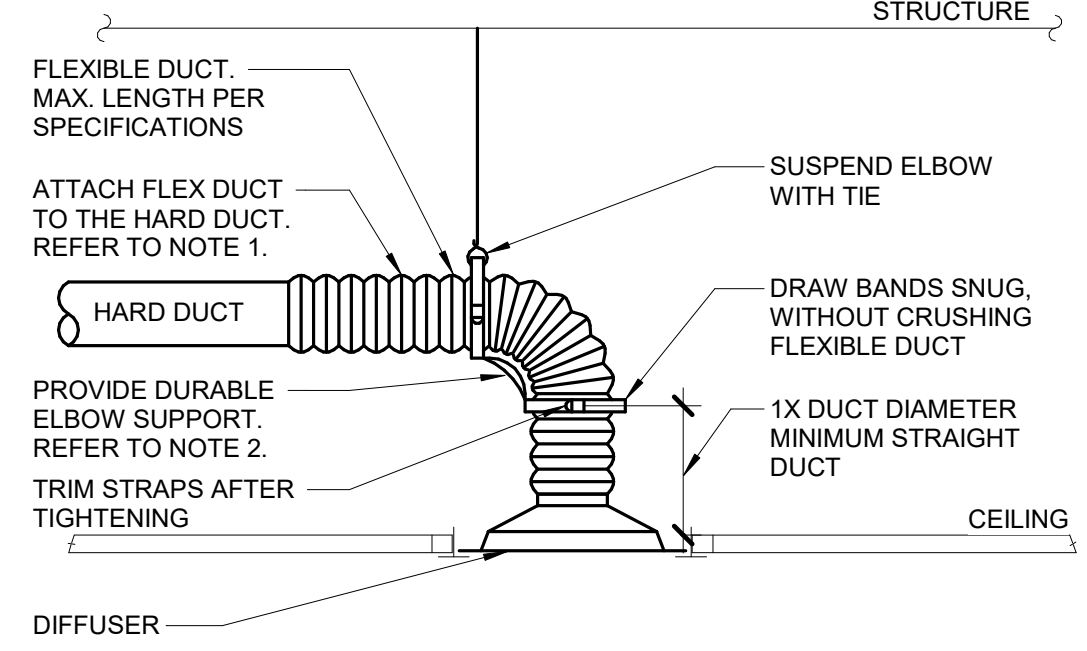
### NOTES:

1. THIS DETAIL APPLIES ONLY TO TAPS OFF UNLINED DUCTS.
2. TAP DOES NOT NEED TO BE CONICAL IF THE TAP IS NOT LOCATED BETWEEN FANS AND TERMINAL AIR BOXES. DUCT IS NOT OVER 2" PRESSURE CLASS, AND ROUND DUCT IS NOT OVER 12" DIAMETER.
3. MANUFACTURED TAP/DAMPER COMBINATIONS WITH LESS THAN 1/2 DUCT DIAMETER SPACING BETWEEN THE MAIN DUCT AND THE DAMPER SHAFT ARE ACCEPTABLE ONLY IF THE DAMPER SHAFT IS INSTALLED PARALLEL TO THE AIR FLOW IN THE MAIN DUCT.



## 7 HUMIDIFIER (DIRECT INJECTION) PIPING

NO SCALE

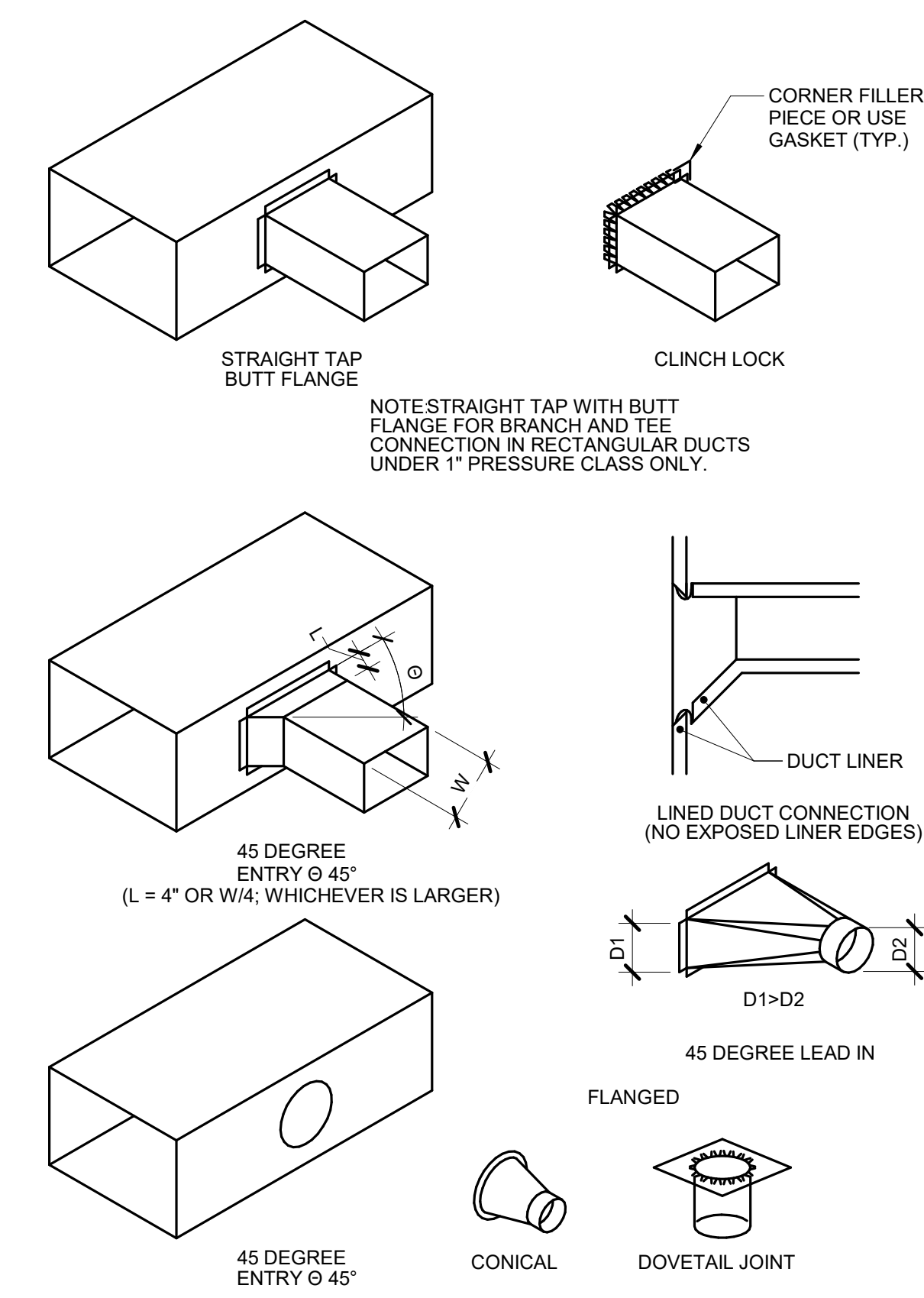


## 3 DIFFUSER CONNECTION DETAIL (W/ RADIUS FORMING ELBOW)

NO SCALE

### NOTES:

1. TO ATTACH FLEX DUCT TO THE HARD DUCT, TAPE THE INNER LINER TO THE HARD DUCT THEN ATTACH WITH TWO NYLON TIE WRAPS, ONE FOR THE INNER LINER AND ONE FOR THE OUTER SHELL. FOLD THE OUTER SHELL INSIDE ITSELF SO IT HAS NEAT EDGES PRIOR TO TIE WRAPPING.
2. DURABLE ELBOW SUPPORT ACCEPTABLE MANUFACTURER AND MODEL: HART AND COOLEY - SMARTFLOW, THERMAFLEX - FLEXFLOW, TITUS - FLEXRIGHT, OR APPROVED EQUAL.

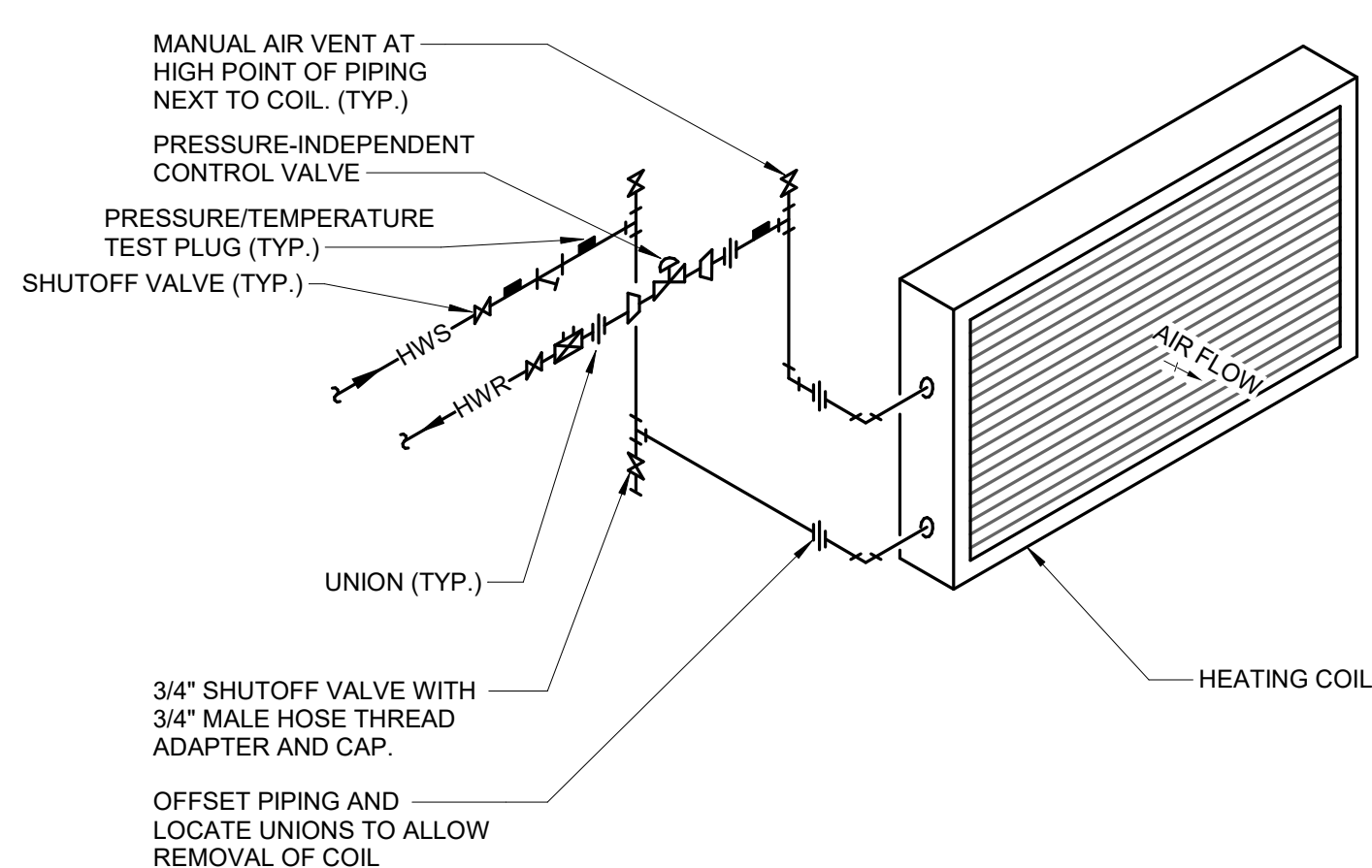


## 5 BRANCH CONNECTIONS

NO SCALE

### NOTES:

1. DO NOT USE CONNECTIONS WITH SCOOPS.
2. FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS AND SECURE THEM SUITABLY FOR THE PRESSURE CLASS.
3. ADDITIONAL MECHANICAL FASTENERS ARE REQUIRED FOR 4"W.G. AND OVER.
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



## 6 REHEAT COIL PIPING DETAIL

NO SCALE

### NOTES:

1. SEE SPECIFICATION SECTION 23 21 00 - HYDRONIC PIPING FOR BALANCE VALVE SIZING REQUIREMENTS.

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REFERENCE SCALE IN INCHES

1" = 1'-0"

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**M400**

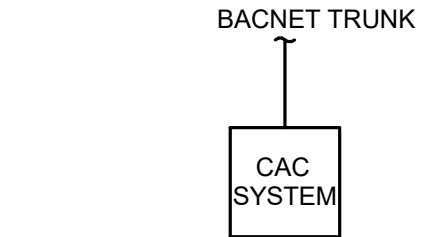
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MECHANICAL DETAILS



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CONTROL SYMBOL LIST			
NOT ALL SYMBOLS MAY APPLY.			
SYMBOL:	DESCRIPTION:		
	CONDENSER WATER RETURN		
	CONDENSER WATER SUPPLY		
	CLEAN STEAM - NUMBER INDICATES PRESSURE IN PSIG.		
	CHILLED WATER RETURN		
	CHILLED WATER SUPPLY		
	GLYCOL WATER RETURN		
	GLYCOL WATER SUPPLY		
	HEATING/CHILLED WATER RETURN		
	HEATING/CHILLED WATER SUPPLY		
	HIGH PRESSURE CONDENSATE		
	HIGH PRESSURE STEAM		
	HEATING WATER RETURN		
	HEATING WATER SUPPLY		
	LOW PRESSURE CONDENSATE		
	LOW PRESSURE STEAM		
	LOOP WATER RETURN		
	LOOP WATER SUPPLY		
	PUMPED CONDENSATE		
	REHEAT WATER RETURN		
	REHEAT WATER SUPPLY		
	LAB VACUUM		
	CONTROL VALVE (THREE-WAY)		
	CONTROL VALVE (TWO-WAY)		
	SOLENOID VALVE		
	CHECK VALVE		
	THERMOSTAT		
	THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE		
	TEMPERATURE SENSOR (DUCT MOUNTED)		
	TEMPERATURE SENSOR WITH WELL		
	THERMOMETER WITH WELL (DIAL TYPE)		
	THERMOMETER WITH WELL (FILLED TYPE)		
	AVERAGING TEMPERATURE SENSOR		
	LOW LIMIT TEMPERATURE SWITCH		
	PROBE TEMPERATURE SENSOR		
	PRESSURE SENSOR (FURNISHED WITH BALL VALVE)		
	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)		
	DIFFERENTIAL PRESSURE SENSOR		
	PRESSURE SENSOR (DUCT MOUNTED)		
	STATIC SWITCH		
	ANALOG INPUT		DIGITAL INPUT
	ANALOG OUTPUT		DIGITAL OUTPUT
	FLOW METER		HUMIDISTAT SENSOR
	FLOW SWITCH		HUMIDISTAT / SENSOR
	FLOW SENSOR		HUMIDITY SENSOR (DUCT MOUNTED)
	AIR FLOW SWITCH		CARBON MONOXIDE SENSOR
	DUCT FLOW METER		CARBON DIOXIDE SENSOR
	HUMIDIFIER		CARBON MONOXIDE SENSOR (DUCT MOUNTED)
	DUCT SMOKE DETECTOR		CARBON DIOXIDE SENSOR (DUCT MOUNTED)
	HEATING/ COOLING COIL		FILTER
	AIR BLENDER		TERMINAL AIR BOX
	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD		TERMINAL AIR BOX W/ REHEAT
	FAN		OCCUPANCY SENSOR
	MOTOR		SENSOR
	CONTACTOR		ACTUATOR
	PUMP		DOOR SWITCH
			DIFFERENTIAL PRESSURE SWITCH
			CURRENT SWITCH
			VIBRATION SWITCH
			NORMALL CLOSED CONTACT
			NORMALLY OPEN CONTACT
			OPPOSED BLADE DAMPER
			PARALLEL BLADE DAMPER

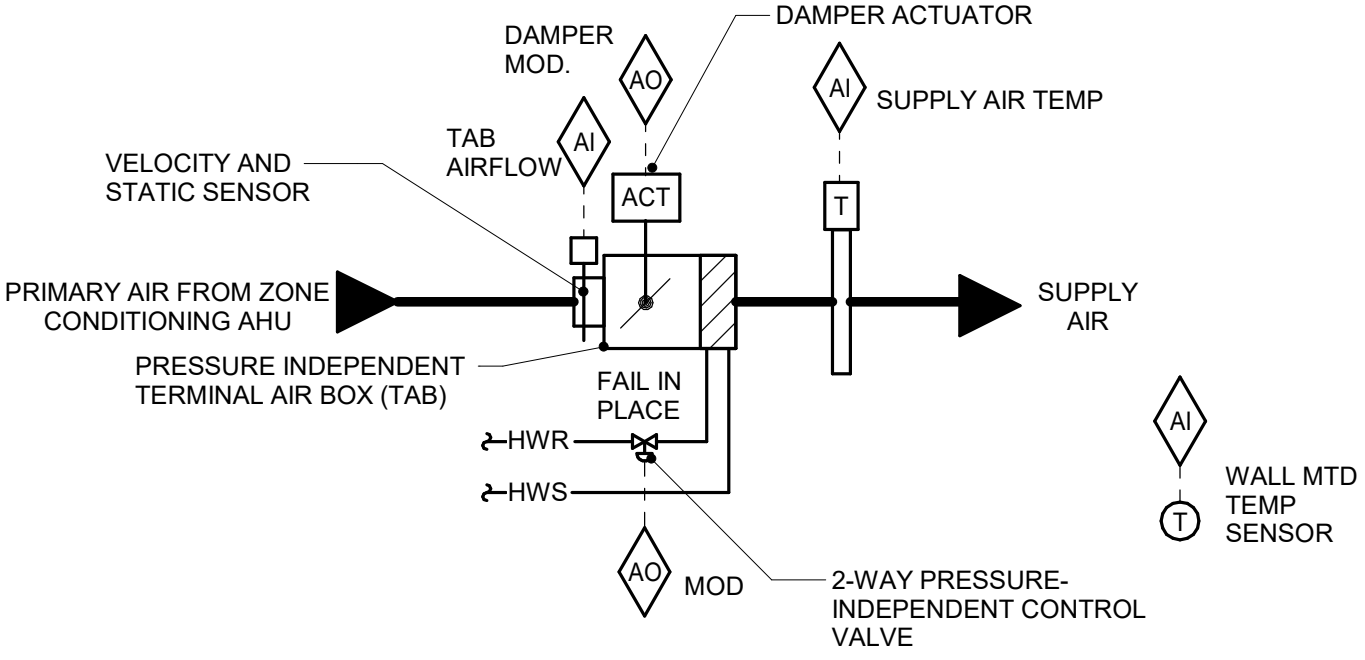
ABBR:	DESCRIPTION:
EA	EXHAUST/RELIEF AIR
MA	MIXED AIR
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
TYP	TYPICAL
RA	RETURN AIR
SA	SUPPLY AIR
UON	UNLESS OTHERWISE NOTES



SEQUENCE OF OPERATION  
COMPUTER ROOM AIR-CONDITIONING UNIT (CAC) SYSTEM INCLUDES FACTORY-MOUNTED CONTROLS WITH BACNET COMMUNICATIONS CAPABILITY. PROVIDE A BACNET CONNECTION TO THE FACILITY MANAGEMENT AND CONTROL SYSTEM (FMCS), AND COORDINATE WITH THE OWNER THE POINTS TO MAP TO THE FMCS, AND PROVIDE GRAPHICS ON FMCS OPERATOR INTERFACE AS REQUIRED.

## 1 COMPUTER ROOM UNIT SYSTEM CONTROL DIAGRAM

12" = 1'-0"



SEQUENCE OF OPERATION:

- FMCS TAB CONTROLLER SHALL MODULATE THE TAB DAMPER AND TAB HEATING WATER REHEAT COIL TO MAINTAIN SPACE SETPOINT BASED ON A SIGNAL FROM A WALL MOUNTED TEMPERATURE SENSOR.
- AT FULL COOLING, THE TAB SHALL BE OPEN TO MAXIMUM CFM POSITION. THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.
- UPON A FALL IN SPACE TEMPERATURE, THE TAB SHALL MODULATE CLOSED UNTIL SPACE SETPOINT IS MAINTAINED, OR UNTIL IT REACHES ITS MINIMUM SCHEDULED CFM POSITION THE REHEAT COIL CONTROL VALVE SHALL BE CLOSED.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, THE REHEAT COIL CONTROL VALVE SHALL MODULATE OPEN TO MAINTAIN SPACE SETPOINT UNTIL THE SUPPLY AIR TEMPERATURE IS 20°F ABOVE ROOM TEMPERATURE SETPOINT.
- UPON A FURTHER FALL IN SPACE TEMPERATURE, TAB SHALL OPEN TO MAINTAIN SETPOINT UNTIL TAB AIRFLOW REACHES ITS MAXIMUM HEATING SETTING. THE REHEAT CONTROL VALVE SHALL CONTINUE TO MODULATE OPEN TO MAINTAIN MAXIMUM DELTA T LISTED ABOVE.
- THE FMCS OPERATOR SHALL HAVE THE ABILITY TO ADJUST, OVERRIDE, AND DISPLAY TEMPERATURES AND SET POINTS FROM THE EXISTING FMCS WORKSTATION.

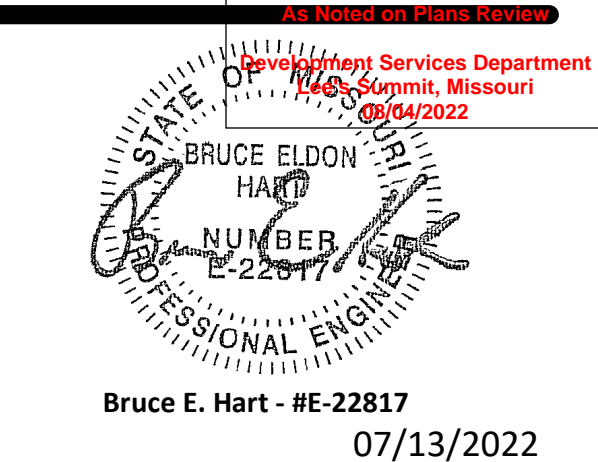
ALARMS, INTERLOCKS & SAFETIES:  
SEND AN ALARM TO THE FMCS OPERATOR INTERFACE IF THE SPACE TEMPERATURE IS MORE THAN 10°F (ADJ.) ABOVE OR BELOW SETPOINT.

## 2 TAB CONTROL W/ HOT WATER REHEAT

NO SCALE

### TEMPERATURE CONTROL GENERAL NOTES:

- REFER TO EQUIPMENT SCHEDULES TO CROSS REFERENCE WHICH CONTROL DIAGRAMS APPLY TO WHICH ITEMS OF EQUIPMENT. REFER TO TERMINAL AIR BOX (TAB) SCHEDULES FOR TEMP SENSOR REQUIREMENTS FOR EACH TAB.
- EACH D.I., D.O., A.I. AND A.O. POINT SHOWN FOR ALL CONTROL DIAGRAMS SHALL BE DISCRETE FROM ALL OTHER POINTS EXCEPT AS SPECIFICALLY NOTED.
- ALL WIRING, CONTROL COMPONENTS, DEVICES AND PROGRAMMING SHOWN ON THESE CONTROL DRAWINGS SHALL BE PROVIDED BY THE TCC UNLESS SPECIFICALLY NOTED OTHERWISE.
- TEMPERATURE CONTROL CABLING, CONDUIT, BOXES, IDENTIFICATION: REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST OF REQUIREMENTS.
- ALL ACTUATORS SHALL BE OF THE ELECTRICAL TYPE FOR THIS PROJECT UNLESS AN ACTUATOR IS SPECIFICALLY INDICATED ON THE DRAWINGS OR SPECIFICATIONS TO BE PNEUMATIC.
- MODULATING SIGNALS SHALL BE DISPLAYED AS % OPEN (SIGNALS DISPLAYED AS % CLOSED ARE NOT ACCEPTABLE).
- ALL CONTROL COMPONENTS SUCH AS RELAYS, SWITCHES, DDC CONTROLLERS, ETC. SHALL BE MOUNTED IN STEEL ENCLOSURES WITH STEEL MOUNTING BACKPLATES PER SPECIFICATION 23 09 00.
- EACH CONTROL PANEL SHALL HAVE A LAMINATED COPY OF THE APPLICABLE SEQUENCE OF OPERATION AND CONTROL DIAGRAM INDICATING THE POINTS, COMPONENTS AND OPERATION OF EQUIPMENT ASSOCIATED WITH EACH PANEL. REFER TO SECTION 23 09 00 FOR ADDITIONAL REQUIREMENTS.
- TCC SHALL WIRE THE CONTROL SIGNAL FROM THE ASSOCIATED AIR HANDLING UNIT CONTROL PANEL TO CONTROL THE OPERATION OF SMOKE DAMPERS IN ACCORDANCE WITH SEQUENCE OF OPERATION. TCC SHALL PROVIDE ALL WIRING, CONDUIT, TRANSFORMERS, FUSING AND ALL OTHER ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION.
- TCC SHALL EXTEND CONTROL SIGNAL FROM ADDRESSABLE RELAY DEVICE SERVING EACH AIR HANDLING UNIT. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS. TCC SHALL EXTEND AND TERMINATE WIRING AS REQUIRED FOR EQUIPMENT SHUTDOWN.
- TCC SHALL PROVIDE LOW VOLTAGE WIRING FROM POWER SUPPLIES TO ALL CONTROLLERS, MONITORS, COMPONENTS AND DEVICES REQUIRING 24 VAC POWER. ADDITIONAL POWER SUPPLIES NOT SHOWN AND REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM SHALL BE PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR. THE TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE FINANCIAL PROVISIONS WITHIN THEIR BID FOR THE ELECTRICAL CONTRACTOR TO PROVIDE BRANCH POWER TO THE ADDITIONAL POWER SUPPLIES. COORDINATE THE LOCATION OF ADDITIONAL POWER SUPPLY CABINET WITH THE ELECTRICAL CONTRACTOR.
- TCC SHALL PROVIDE THERMOSTATS FOR AUTOMATIC CONTROL OF EQUIPMENT AS REQUIRED BY THESE CONTROL DRAWINGS. THERMOSTAT CONTACT AMP RATING SHALL BE MINIMUM 15% OF THE MAX. CURRENT DRAW FOR THE EQUIPMENT BEING SERVED. WHERE THERMOSTATS CONTROL THE STARTING OF MOTORS (I.E. FANS), THERMOSTATS SHALL BE RATED FOR MOTOR STARTING APPLICATIONS.
- CONTROL DIAGRAMS ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL REQUIRED CONTROL DEVICES AND COMPONENTS. REFER TO FLOOR PLANS, FLOW DIAGRAMS AND DETAILS FOR ADDITIONAL CONTROL DEVICES, COMPONENTS AND REQUIREMENTS NOT SHOWN ON THESE CONTROL DRAWINGS.
- TCC SHALL PROVIDE ALL CONTROL COMPONENTS AND ACCESSORIES AS REQUIRED FOR EQUIPMENT TO BE CONTROLLED AS DESCRIBED IN THE SEQUENCE OF OPERATION REGARDLESS OF WHETHER ALL CONTROL COMPONENTS OR POINTS ARE SHOWN IN THE ASSOCIATED CONTROL DIAGRAM.



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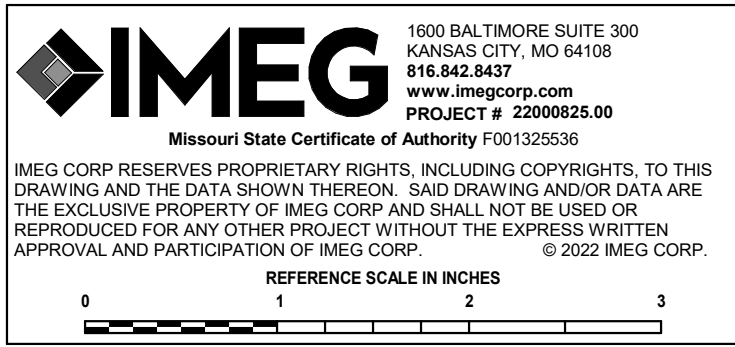
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M500  
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TEMPERATURE CONTROL



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SPLIT SYSTEM UNIT SCHEDULE

NOTES:  
1.INDOOR UNIT IS CEILING CASSETTE TYPE AND OUTDOOR UNIT IS COOLING-ONLY TYPE CONDESING UNIT WITH INVERTER COMPRESSOR.  
2.COOLING CAPACITY IS BASED ON INDOOR/ENTERING IAR CONDITIONS OF 75°F DB AND 45% RH AND OUTDOOR AMBIENT TEMPERATURE OF 105°F. SENSIBLE COOLING CAPACITY SHALL BE A MIN. OF 33.4 MBH.  
3.UNIT SHALL BE CAPABLE OF CONTINUOUS OPERATION AT OUTDOOR AMBIENT TEMPERATURE AS LOW AS -20°F. PROVIDE WITH WIND BAFFLES AS REQUIRED.  
4.FURNISH SYSTEM WITH FACTORY-MOUNTED CONTROLS, INCLUDING COMMUNICATIONS CARD TO ALLOW REMOTE ACCESS TO THE CONTROLS THROUGH A BACNET COMMUNICATIONS LINK. A DRAIN PAN/LEVEL SENSOR (TO SHUT OFF INDOOR UNIT TO PREVENT DRAIN PAN OVERFLOW), A WALL-MOUNTED (NOT HANDHELD) CONTROLLER, AND A COMMON ALARM CONTACT.  
5.PROVIDE SYSTEM WITH REFRIGERANT PIPING AND SPEC AS RECOMMENDED BY MANUFACTURER. M.C. SHALL CONFIRM PIPING LENGTH IN THE FIELD, AND SHALL CHARGE SYSTEM WITH REFRIGERANT R-410A AS REQUIRED.

TAG NAME	AREA SERVED	INDOOR UNIT										OUTDOOR UNIT										ELECTRICAL				MANUFACTURER	NOTES		
		CFM	MCA	VOLTAGE	PHASE	COOLING MBH	HEATING MBH	MAX. DIMENSIONS			WEIGHT	MODEL	SEER	MCA	MOCp	VOLTAGE	PHASES	OUTSIDE UNIT MAX. DIMENSIONS			WEIGHT	MODEL	DISCONNECT		CONTROLLER/ STARTER				
								LENGTH	WIDTH	HEIGHT								HEIGHT	LENGTH	WIDTH			WIDTH	BY (NOTE A)	TYPE (NOTE B)			BY (NOTE A)	SCCR
CAC-1A027		1200	2.0	208	1	33.9	0	38"	38"	12"	70	TPLA0A0421EA70B	21	25	31	208	1	4'-5"	3'-6"	1'-3"	215	TRUYAO 421KA70NA	E.C.	NF	MFR	5000	mitsubishi trane	SEE NOTES ABOVE.	



TERMINAL AIR BOX SCHEDULE - SINGLE DUCT NEW

NOTES:  
1. NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.  
2. TOTAL AIR PRESSURE DROP OF TAB AND REHEAT COIL SHALL NOT EXCEED 0.50" WC.  
3. CONTROL TYPE: 1-TAB WITH HOT WATER REHEAT  
4. SENSOR TYPES: 1 - SENSOR ONLY 2 - SENSOR WITH ADJUSTMENT 3 - SENSOR WITH OVERRIDE 4 - SENSOR WITH ADJUSTMENT AND OVERRIDE  
5. HEATING COIL IS BASED ON HEATING AIR FLOW. WATER PRESSURE DROP OF REHEAT COILS SHALL NOT EXCEED 5'. PROVIDE REHEAT COILS SEPARATE FROM BOXES IF REQUIRED TO MEET WATER PRESSURE DROP REQUIREMENTS. WHEN LAT °F, EWT °F, AND GPM VALUES ARE BLANK, HEATING COIL IS NOT REQUIRED FOR TAB  
6. HEATING COIL SELECTION SHALL BE BASED ON A FIXED LEAVING AIR TEMPERATURE AND VARIABLE FLOW (GPM). PROVIDE FINAL MAXIMUM FLOW RATE (GPM) TO TEST & BALANCE AND TEMPERATURE CONTROLS CONTRACTORS.

TAG NAME	CFM			HEATING COIL (NOTES 5, 6)				MIN. INLET SIZE (IN.) DIA.	CONTROL TYPE (NOTE 3)	SENSOR TYPE (NOTE 4)	MANUFACTURER	MODEL (NOTES 1, 2)	NOTES
	COOLING MAX.	HEATING MAX.	MIN.	EAT °F	LAT °F	EWT °F	MAX. GPM						
A7-1A056	280	0	0	42.0	85.0	180	0.0	6"			TITUS	DESV	NOTES 1, 2
A-4-1A081	250	0	0	55.0	85.0			8"			TITUS	DESV	NOTES 1, 2

EXISTING TERMINAL AIR BOX BALANCING SCHEDULE

TAG NAME	INLET SIZE (IN.) DIA.	COOLING MAX. CFM		COOLING MIN. CFM	HEATING MAXIMUM CFM		REHEAT COIL GPM
		COOLING MAX.	COOLING MIN.		HEATING MAX.	HEATING MIN.	
A-4-1A081-E	8"	600	600	600	600	600	1.3
A-4-1A081-E	8"	1500	1500	1500	1500	1500	3.5
A-4-1A090-E	16"	1640	1640	1640	1640	1640	3.5
A-4-1A210-E	8"	170	170	170	170	170	
A-10-08-E	12"	500	500	500	500	500	1.6
A-10-14-E	8"	360	360	360	360	360	1.2

SUPPLY/RETURN/EXHAUST AIR VALVE SCHEDULE

NOTES:  
1. NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.  
2. REFER TO SPECIFICATION SECTION [239500], VENTURI VALVE AIRFLOW CONTROL SYSTEM.  
3. PROVIDE ROOM INTEGRATOR TO CONNECT DIRECTLY TO FMCS VIA NETWORK.  
4. FAST ACTING VALVE. REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.  
5. SENSOR TYPES: 1 - SENSOR ONLY 2 - SENSOR WITH ADJUSTMENT 3 - SENSOR WITH OVERRIDE 4 - SENSOR WITH ADJUSTMENT AND OVERRIDE.

TAG NAME	AREA SERVED	COOLING MAX.	MIN.	HEATING MAX.	PRESSURE DROP	AV SIZE, CONFIGURATION		CONTROL TYPE (NOTE 4)	SENSOR TYPE (NOTE 5)	MANUFACTURER	MODEL	NOTES
						MIN. INLET SIZE (IN.) DIA.	CONFIGURATION					
RAV-1A051		0	2350	0	0.13	16"	HORIZONTAL	VARIABLE VOLUME WITH ELECTRIC ACTUATOR AND FLOW FEEDBACK		CRC	CRC-CLV-16	
SAV-1A051		2600	2600	2600	0.13	16"	HORIZONTAL	VARIABLE VOLUME WITH ELECTRIC ACTUATOR AND FLOW FEEDBACK		CRC	CRC-CLV-16	

COIL SCHEDULE - WATER

NOTES:																				
1.																				
TAG NAME	AREA SERVED	CFM	EAT		LAT		TOTAL MBH	A.P.D. IN. W.C.	EWT °F	LWT °F	GPM	W.P.D. FT. HEAD	MAX. DIMENSIONS			WEIGHT		MANUFACTURER	MODEL	NOTES
			DB °F	WB °F	DB °F	WB °F							LENGTH	WIDTH	HEIGHT	DRY	OPERATING			
RHC-1A051		2600	42.0	0.0	85.0	0.0	120	0.40	190	160	8.0	5.0	24		18	0	0			

AIR TERMINAL SCHEDULE

NOTES:  
1. CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION.  
2. REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES
EG-1	INLET +2	35 DEGREE DEFLECTION	1 1/4"	STEEL	WHITE	NO	TITUS	350R	
RG-1	24x12	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	350R	DUCTED RETURN
RG-3	20x32	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	350R	FACE ONLY - NON DUCTED
RG-4	24x12	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	350R	DUCTED RETURN
SD-1	24x24	PANEL FACE	LAY-IN	STEEL	WHITE	NO	TITUS	OMNI	

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MECHANICAL SCHEDULES

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07/13/2022

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6

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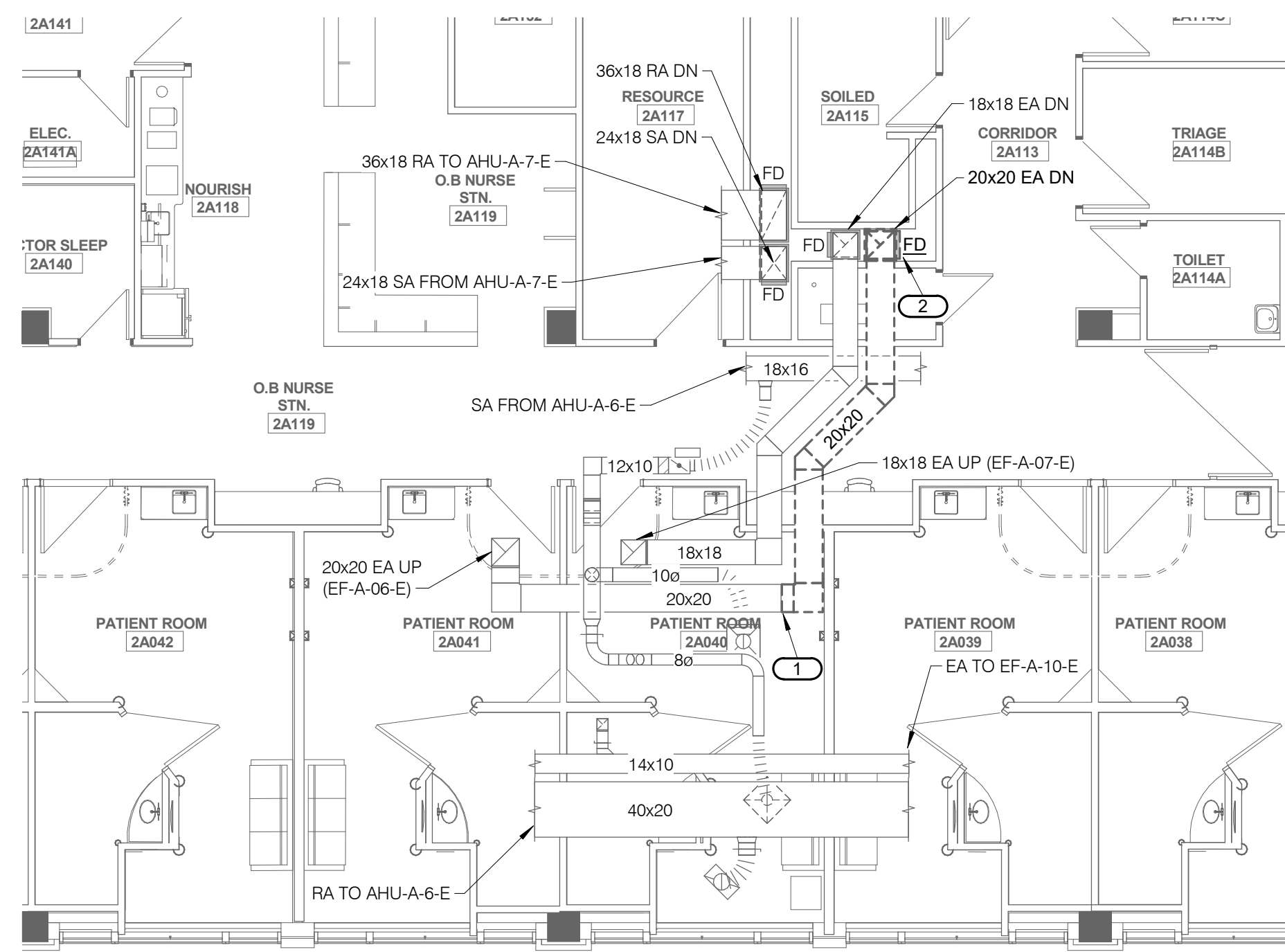
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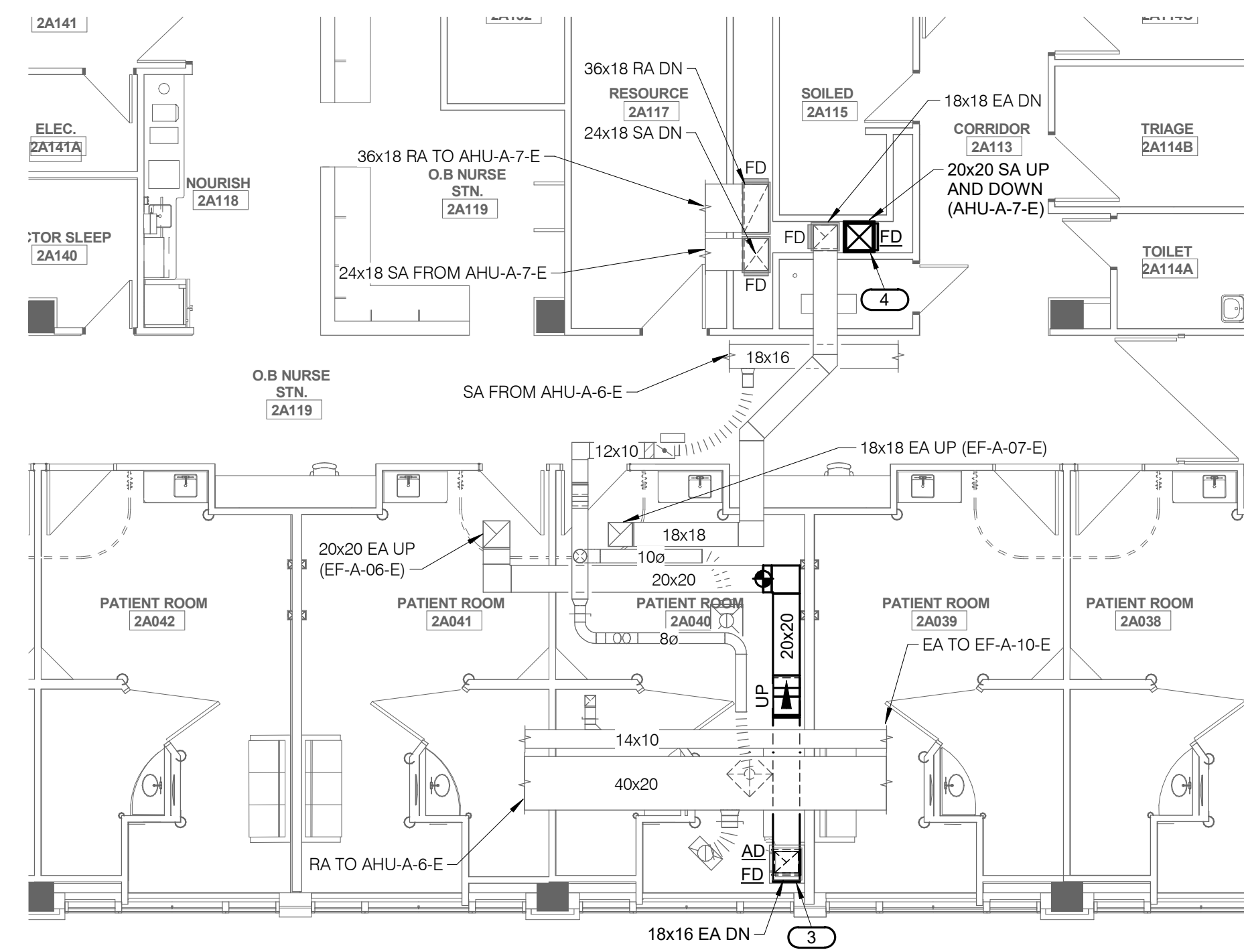
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1

**SECOND FLOOR DEMOLITION - VENTILATION**

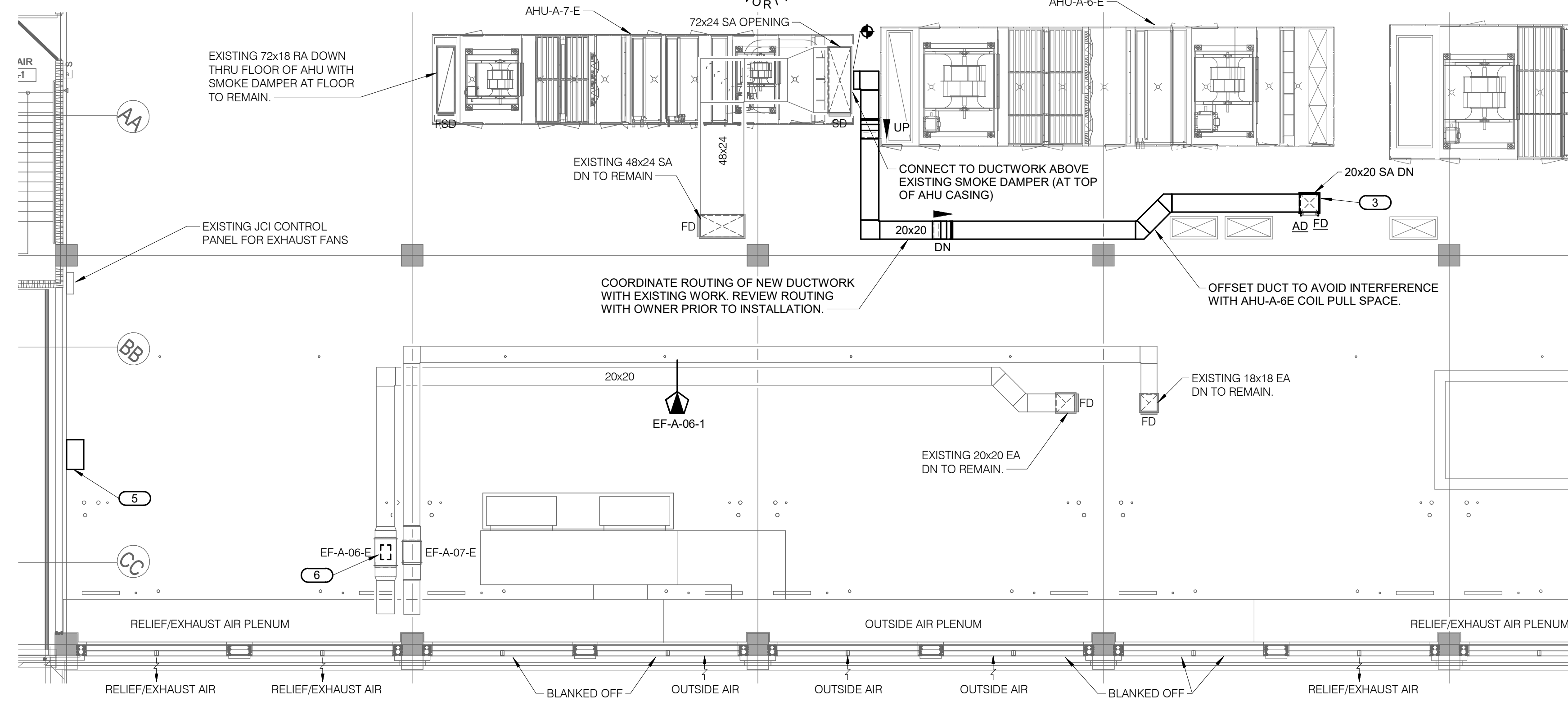
1/8" = 1'-0"



2

**SECOND FLOOR - VENTILATION**

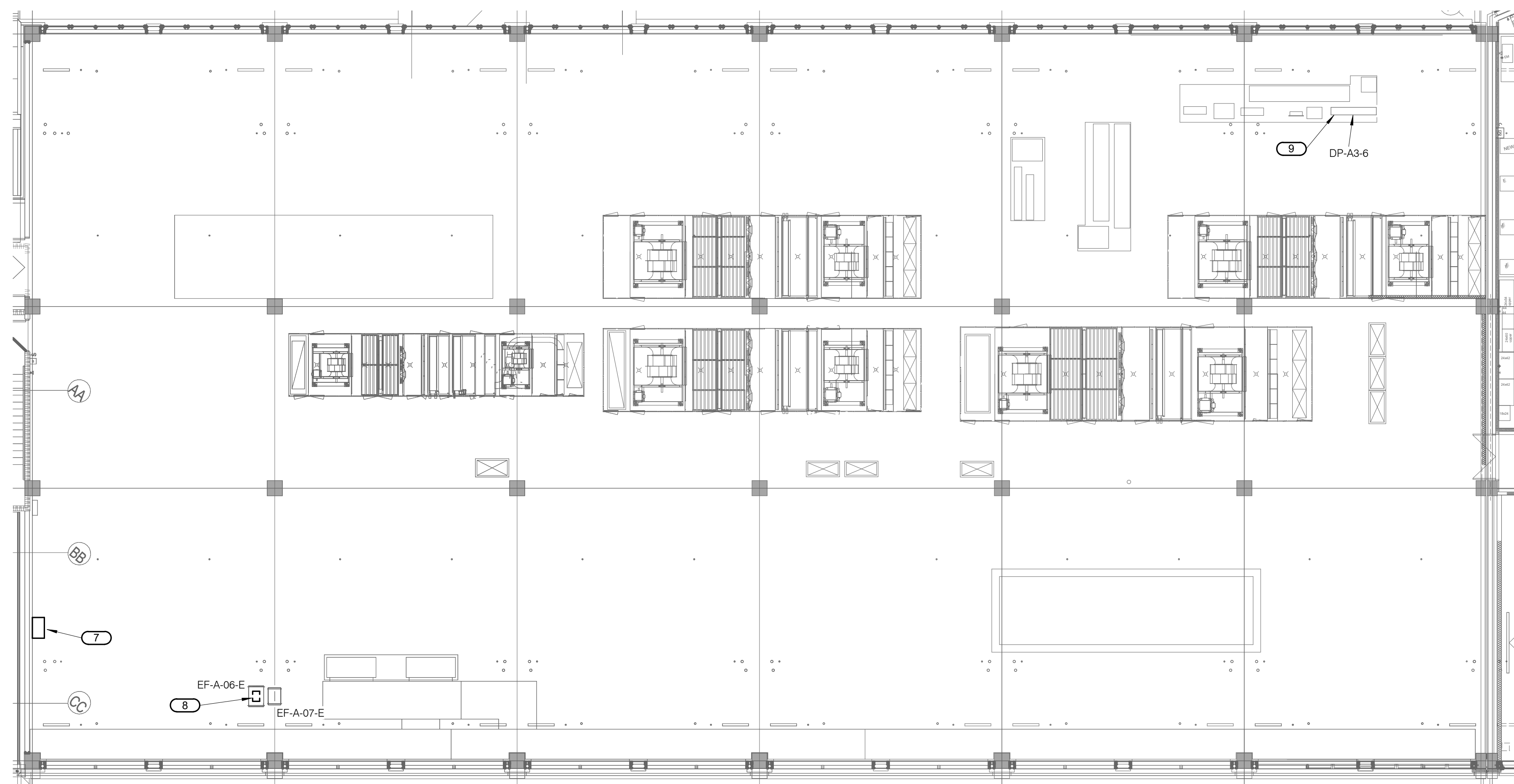
1/8" = 1'-0"



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**THIRD FLOOR - VENTILATION**

1/8" = 1'-0"



4

**THIRD FLOOR - POWER**

3/32" = 1'-0"

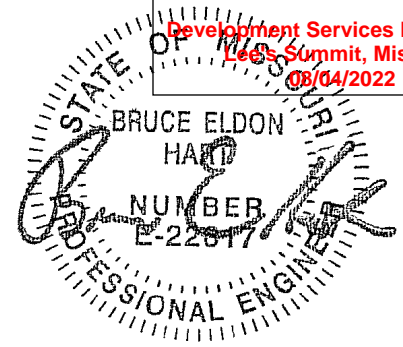
**KEYNOTES:**

1. CUT 20x20 EA AND REMOVE UPSTREAM DUCTWORK BACK DOWN TO FIRST FLOOR. IF REMOVAL OF DUCTWORK ABOVE CORRIDOR WOULD REQUIRE A SHUTDOWN OF CORRIDOR, COORDINATE WITH OWNER. OWNER MAY ALLOW THAT DUCT WORK TO BE CAPPED ON BOTH SIDES OF CORRIDOR AND ABANDONED IN PLACE.
2. CUT WALL OF JANITOR CLOSET AS REQUIRED TO REMOVE DUCT RISER.
3. COORDINATE EXACT LOCATION OF NEW DUCT RISER WITH ARCHITECT AND STRUCTURAL ENGINEER. SAWCUT SLAB AS DIRECTED BY STRUCTURAL ENGINEER. INSTALL DUCT ACCESS DOOR ABOVE SLAB AND COORDINATE WITH GENERAL CONTRACTOR TO INSTALL AN ARCHITECTURAL ACCESS DOOR IN FRONT OF THE DUCT ACCESS DOOR, IF REQUIRED FOR ACCESS.
4. INSTALL NEW SA DUCT RISER DOWN THRU SECOND FLOOR SLAB IN SAME LOCATION WHERE THE OLD EA RISER WAS REMOVED. INSTALL DUCT ACCESS DOOR IN ACCESSIBLE LOCATION BELOW SLAB. PATCH WALL OF JANITOR CLOSET AS REQUIRED.
5. DISCONNECT AND REMOVE MOTOR CONTROLS (COMBINATION STARTER/DISCONNECT SWITCH) FOR EF-A-06-E. PROVIDE AND INSTALL NEW VARIABLE FREQUENCY DRIVE IN SAME LOCATION.
6. DISCONNECT AND REMOVE 1 HP MOTOR FROM EXISTING FAN. PROVIDE AND INSTALL NEW 2 HP, 460-VOLT, 3Ø MOTOR ON FAN. RE-BALANCE FAN TO SAME AIRFLOW RATE THAT WAS MEASURED PRIOR TO DEMOLITION.
7. DISCONNECT EXISTING 480V, 3Ø, #12 W CIRCUIT FROM LINE AND LOAD SIDE OF EXISTING EF-A-06-E MOTOR STARATER/DISCONNECT TO ALLOW FOR ITS REMOVAL AND RE-CONNECT SAME CIRCUIT TO LINE AND LOAD SIDE OF NEW VFD.
8. DISCONNECT EXISTING 480V, 3Ø, #12 W CIRCUIT FROM EXISTING EXHAUST FAN MOTOR TO ALLOW FOR MOTOR REMOVAL AND RECONNECT SAME XIRCUIT TO NEW EXHAUST FAN MOTOR.
9. REPLACE EXISTING FUSES IN DISCONNECT SWITCH SERVING EXHAUST FAN REF-A-06-E WITH 6.25A FUSES. NEW FUSES SHALL MATCH TYPE OF EXISTING FUSES.



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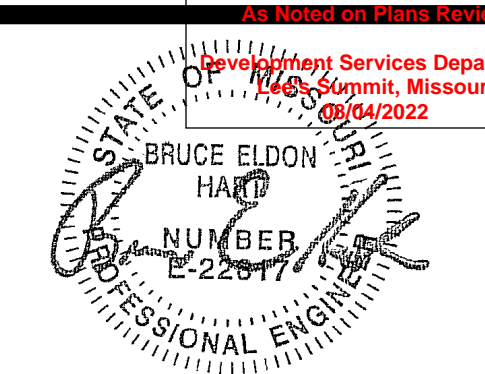
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SECOND/THIRD FLOOR -  
VENTILATION/POWER









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E101  
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FIRST FLOOR DEMOLITION -  
LIGHTING

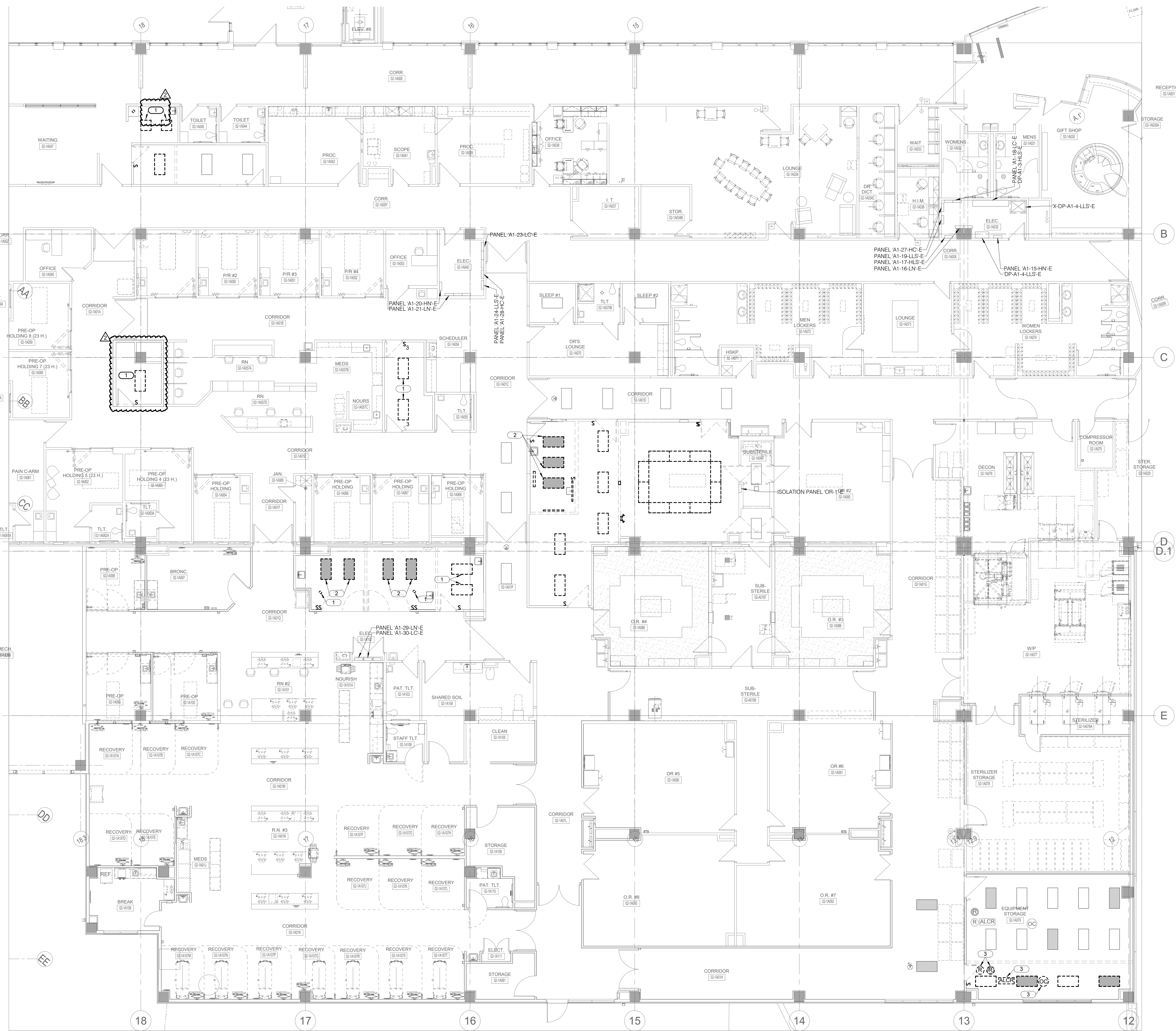
**SHEET NOTES:**

1. REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES SHALL APPLY TO THIS SHEET.

**KEYNOTES:**

1. DISCONNECT AND REMOVE LIGHT FIXTURE. MAINTAIN NORMAL BRANCH CONDUIT AND WIRE FOR EXTENSION AND CONNECTION TO NEW LIGHT FIXTURE. REFER TO NEW WORK PLAN FOR MORE INFORMATION. REMOVE ALL CONDUIT AND WIRE NOT REQUIRED TO REMAIN.
2. DISCONNECT AND REMOVE LIGHT FIXTURE. MAINTAIN CRITICAL BRANCH CONDUIT AND WIRE FOR EXTENSION AND CONNECTION TO NEW LIGHT FIXTURE. REFER TO NEW WORK PLAN FOR MORE INFORMATION. REMOVE ALL CONDUIT AND WIRE NOT REQUIRED TO REMAIN.
3. DISCONNECT, REMOVE, AND RELOCATE EXISTING DEVICE. REFER TO NEW WORK PLAN FOR MORE INFORMATION.

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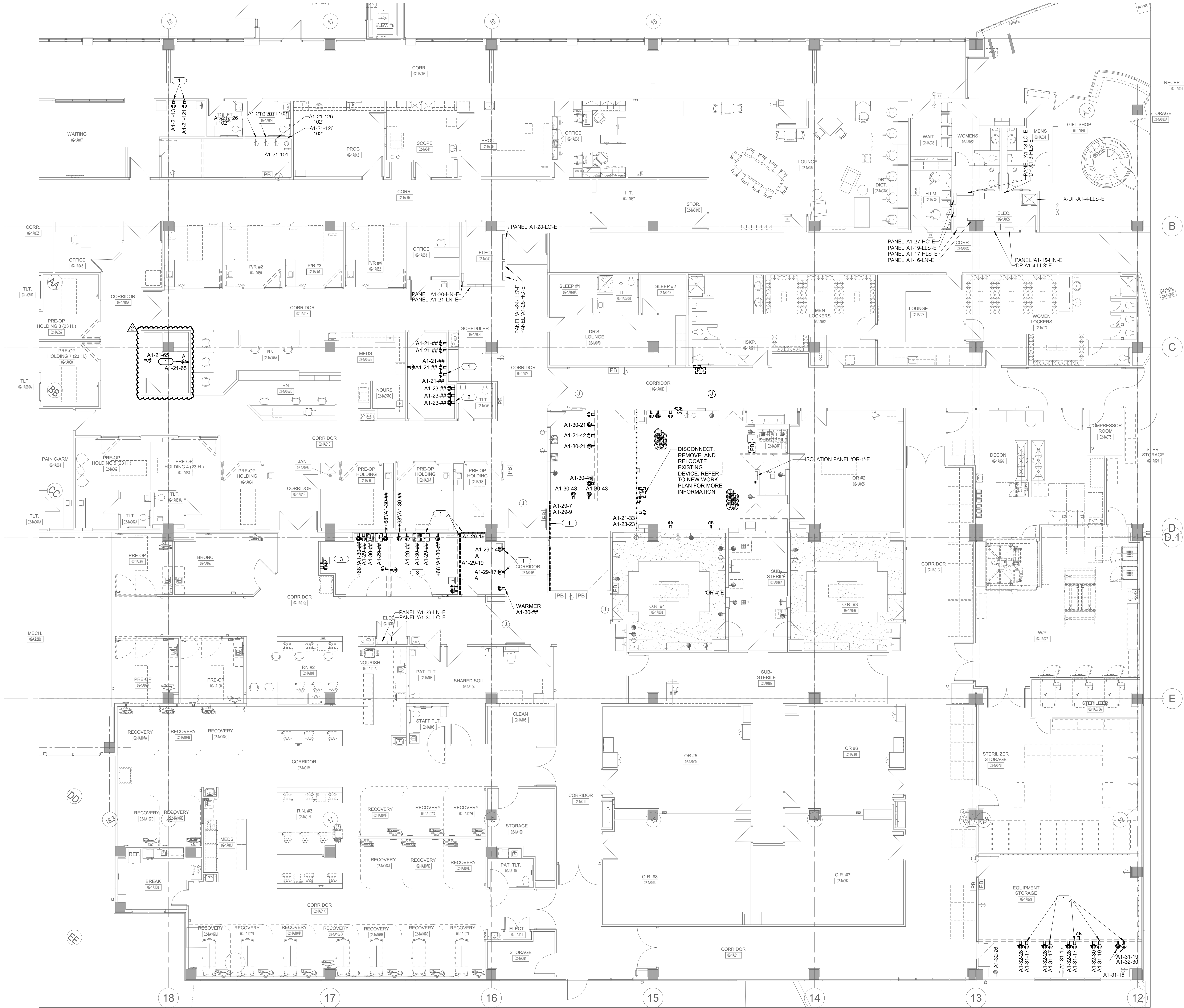


## 1 FIRST FLOOR DEMOLITION - LIGHTING

1/8" = 1'-0"



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



**SHEET NOTES:**

1. REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES SHALL APPLY TO THIS SHEET.
2. ## IN CIRCUIT IDENTIFICATION AT DEVICES INDICATES EXACT CIRCUIT FROM INDICATED PANEL SERVING DEVICE SHALL BE FIELD VERIFIED.

**KEYNOTES:** **#**

1. DISCONNECT AND REMOVE DEVICE. MAINTAIN NORMAL BRANCH CONDUIT AND WIRE FOR EXTENSION AND CONNECTION TO NEW DEVICE. REFER TO NEW WORK PLAN FOR MORE INFORMATION. REMOVE ALL CONDUIT AND WIRE NOT REQUIRED TO REMAIN.
2. DISCONNECT AND REMOVE DEVICE. MAINTAIN CRITICAL BRANCH CONDUIT AND WIRE FOR EXTENSION AND CONNECTION TO NEW DEVICE. REFER TO NEW WORK PLAN FOR MORE INFORMATION. REMOVE ALL CONDUIT AND WIRE NOT REQUIRED TO REMAIN.
3. DISCONNECT AND REMOVE ALL DEVICES, WIRING, AND CONDUIT LOCATED IN THIS ROOM. FIELD VERIFY EXISTING CONDITIONS AND DEVICE LOCATIONS.

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FIRST FLOOR DEMOLITION - POWER

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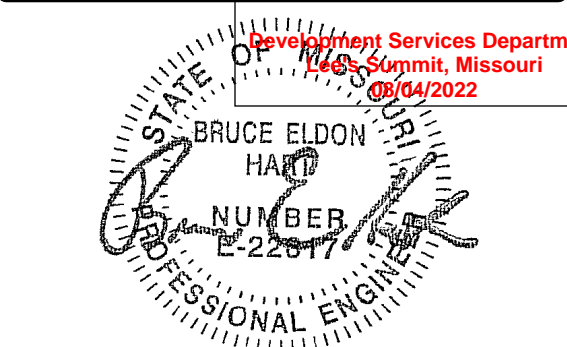
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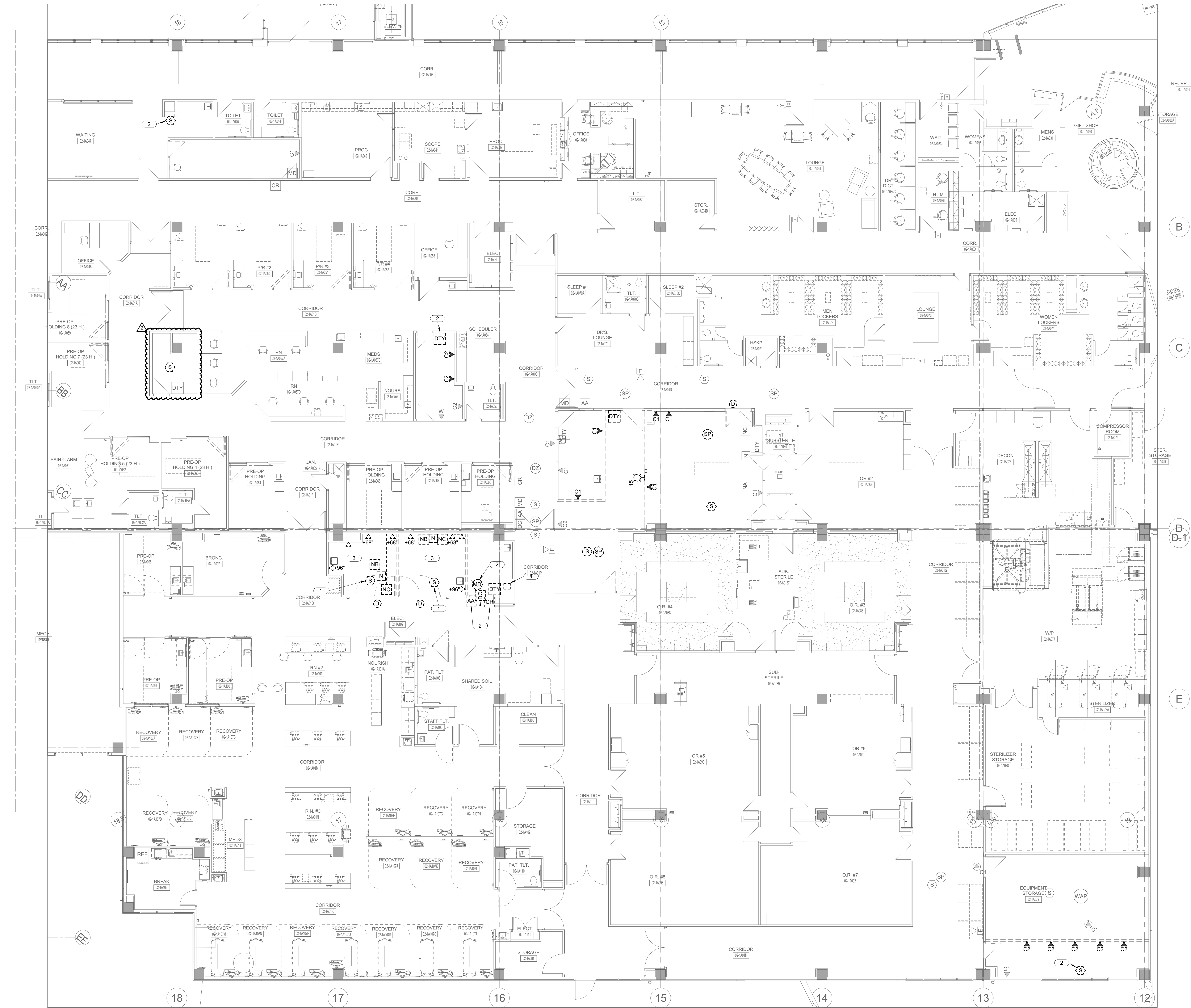
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**1 FIRST FLOOR DEMOLITION - SYSTEMS**  
1/8" = 1'-0"

**SHEET NOTES:**  
1. REFER TO SHEET E000 FOR GENERAL NOTES.  
NOT ALL GENERAL NOTES SHALL APPLY TO THIS SHEET.

**KEYNOTES:** C  
1. SMOKE DETECTOR WITH AUXILIARY CONTACTS FOR NURSE CALL INTERFACE.  
2. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT DEVICE. EXTEND CONDUIT AND CABLE AS REQUIRED TO RECONNECT DEVICE. REFER TO NEW WORK FOR MORE INFORMATION. REMOVE ALL CABLE AND CONDUIT NOT REQUIRED TO REMAIN.  
3. DISCONNECT AND REMOVE ALL DEVICES, WIRING, AND CONDUIT LOCATED IN THIS ROOM. FIELD VERIFY EXISTING CONDITIONS AND DEVICE LOCATIONS.  
4. COORDINATE RELOCATION OF EXISTING CEILING MOUNTED DEVICE WITH OWNER.

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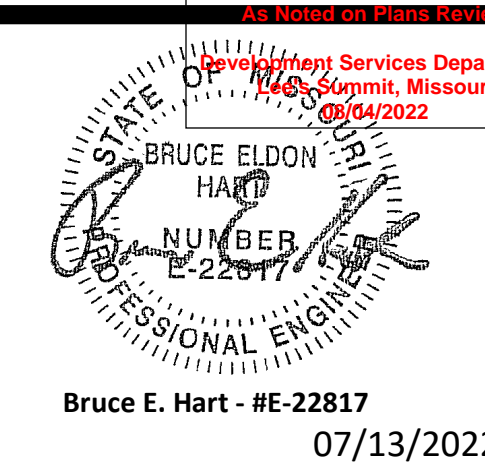
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FIRST FLOOR DEMOLITION - SYSTEMS









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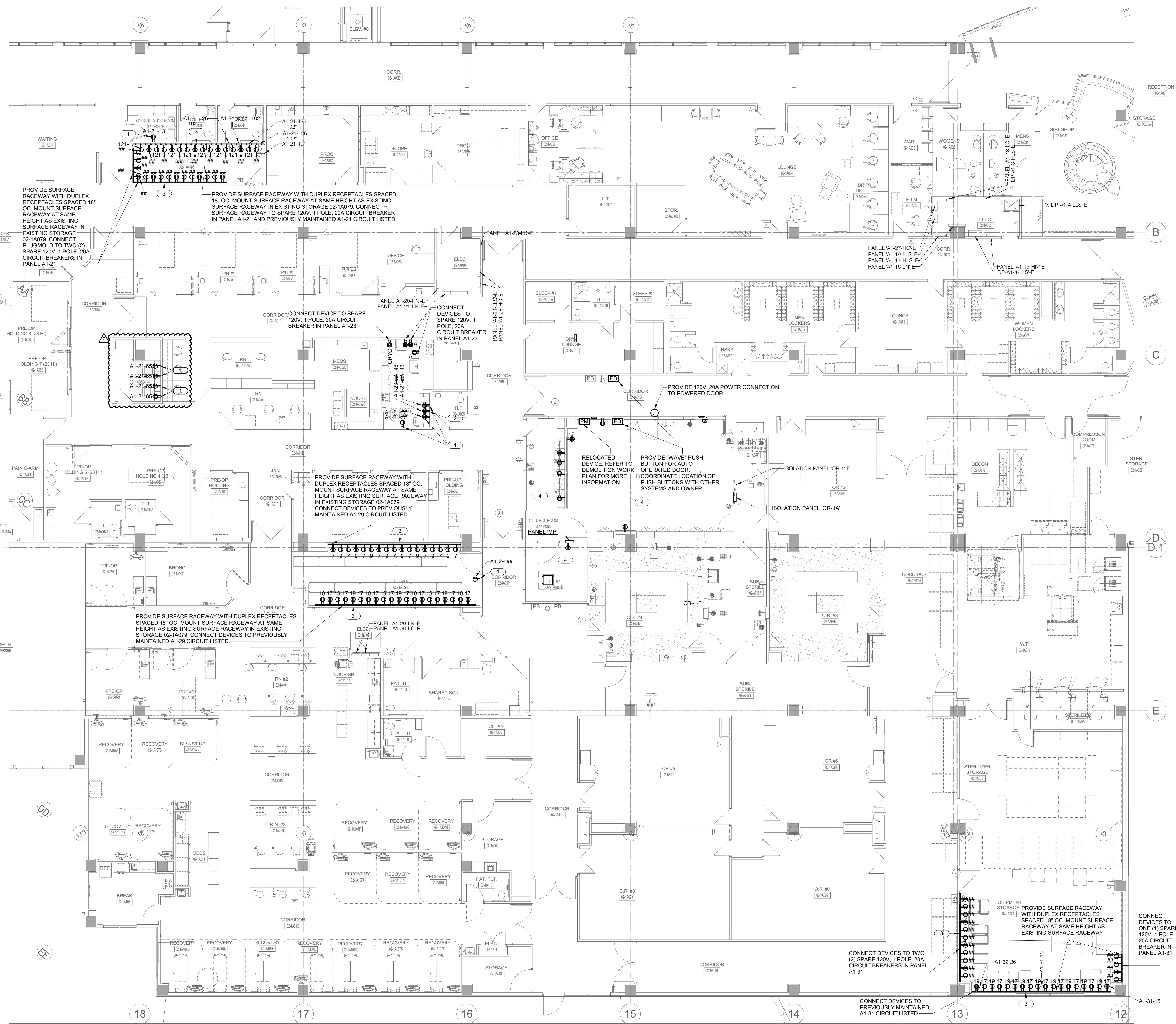
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E211  
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- SHEET NOTES:**
- REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES SHALL APPLY TO THIS SHEET.
  - PANELBOARD SCHEDULES SHALL BE UPDATED AS REQUIRED TO REFLECT CHANGES TO CIRCUITING.
  - ## IN CIRCUIT IDENTIFICATION AT DEVICES INDICATES DEVICE SHALL BE CONNECTED TO EXISTING SPARE 20A, 1P BRANCH CIRCUIT BREAKER IN INDICATED PANEL OR TO CIRCUIT BREAKER MADE SPARE BY DEMOLITION. CIRCUIT NUMBERS UTILIZED SHALL BE INDICATED ON AS-BUILT MARK-UPS.

- KEYNOTES:** **#**
- CONNECT DEVICE TO PREVIOUSLY DISCONNECTED AND MAINTAINED NORMAL CONDUIT AND WIRE. EXTEND CONDUIT AND WIRE AS REQUIRED FOR CONNECTION. REFER TO DEMOLITION PLAN FOR MORE INFORMATION.
  - CONNECT DEVICE TO PREVIOUSLY DISCONNECTED AND MAINTAINED CRITICAL CONDUIT AND WIRE. EXTEND CONDUIT AND WIRE AS REQUIRED FOR CONNECTION. REFER TO DEMOLITION PLAN FOR MORE INFORMATION.
  - HALF OF SURFACE RACEWAY DUPLEX RECEPTACLES SHALL BE CONNECT TO ONE (1) DEDICATED CIRCUIT AND OTHER HALF OF SURFACE RACEWAY DUPLEX RECEPTACLES SHALL BE TO ONE (1) OTHER DEDICATED CIRCUIT. CIRCUIT CONNECTED TO DUPLEX RECEPTACLES SHALL ALTERNATE ALONG SURFACE RACEWAY.
  - THE MEP WORK SHOWN IN THIS ROOM IS PRELIMINARY AND WAITING ON FINAL ROOM LAYOUT AND VENDOR EQUIPMENT INFORMATION. REFER TO SEPARATE NARRATIVE ISSUED WITH DOCUMENTS FOR ADDITIONAL INFORMATION FOR PRICING PURPOSES.

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## 1 FIRST FLOOR - POWER

1/8" = 1'-0"











IN CASE OF POWER FAILURE, A UPS PROVIDING TABLE MOVEMENT IS REQUIRED. IF NOT PURCHASED FROM SIEMENS, IT IS THE CUSTOMER'S RESPONSIBILITY TO PROVIDE A UPS THAT ALLOWS A TILTING/OR TABLE TO BE MOVED TO A ZERO DEGREE POSITION DESIGNATED FOR CPR WITHIN 15 SECONDS. THIS REQUIREMENT IS CONSISTENT WITH IEC 60601-2-43 CL. 201.15.101.

IF THE CUSTOMER OR SIEMENS-SUPPLIED UPS SOLUTION IS NOT INSTALLED AND OPERATIONAL AT THE TIME OF THE SIEMENS DELIVERY, SIEMENS CANNOT AND WILL NOT INSTALL THE AFFECTED SIEMENS SYSTEM!

THIS SET OF FINAL DRAWINGS IS REFLECTIVE OF THE LATEST SALES CONFIGURATION. ANY CHANGES TO THIS SALES CONFIGURATION MAY REQUIRE A REVISION TO THIS PROJECT PLAN. IF REQUESTED, SIEMENS WILL PRODUCE A REVISED SET OF FINAL DRAWINGS TO REFLECT THE CHANGES, HOWEVER SIEMENS IS NOT RESPONSIBLE FOR ANY CONSTRUCTION COSTS ASSOCIATED WITH THE CHANGES THAT OCCUR FROM THIS PLAN MODIFICATION.

NOTE: THE UPS IS SUPPLIED AND DELIVERED TO CUSTOMER'S LOADING DOCK BY SIEMENS. CUSTOMER'S ELECTRICIAN IS RESPONSIBLE FOR MOVING FROM LOADING DOCK TO FINAL LOCATION AND COMPLETING ALL CONNECTIONS. THE UPS MUST NOT BE LOCATED IN A PATIENT ENVIRONMENT. SIEMENS PROJECT MANAGER WILL SCHEDULE UPS STARTUP PRIOR TO DELIVERY OF SIEMENS IMAGING EQUIPMENT.

NON-SIEMENS (OEM) DISPLAY BOOMS CONTAINING SIEMENS MONITORS:

IMPORTANT SAFETY CRITERIA: FAILURE TO MEET THE FOLLOWING REQUIREMENTS MAY RESULT IN RISK OF INJURY TO PATIENTS, PERSONNEL OR DAMAGE TO THE EQUIPMENT:

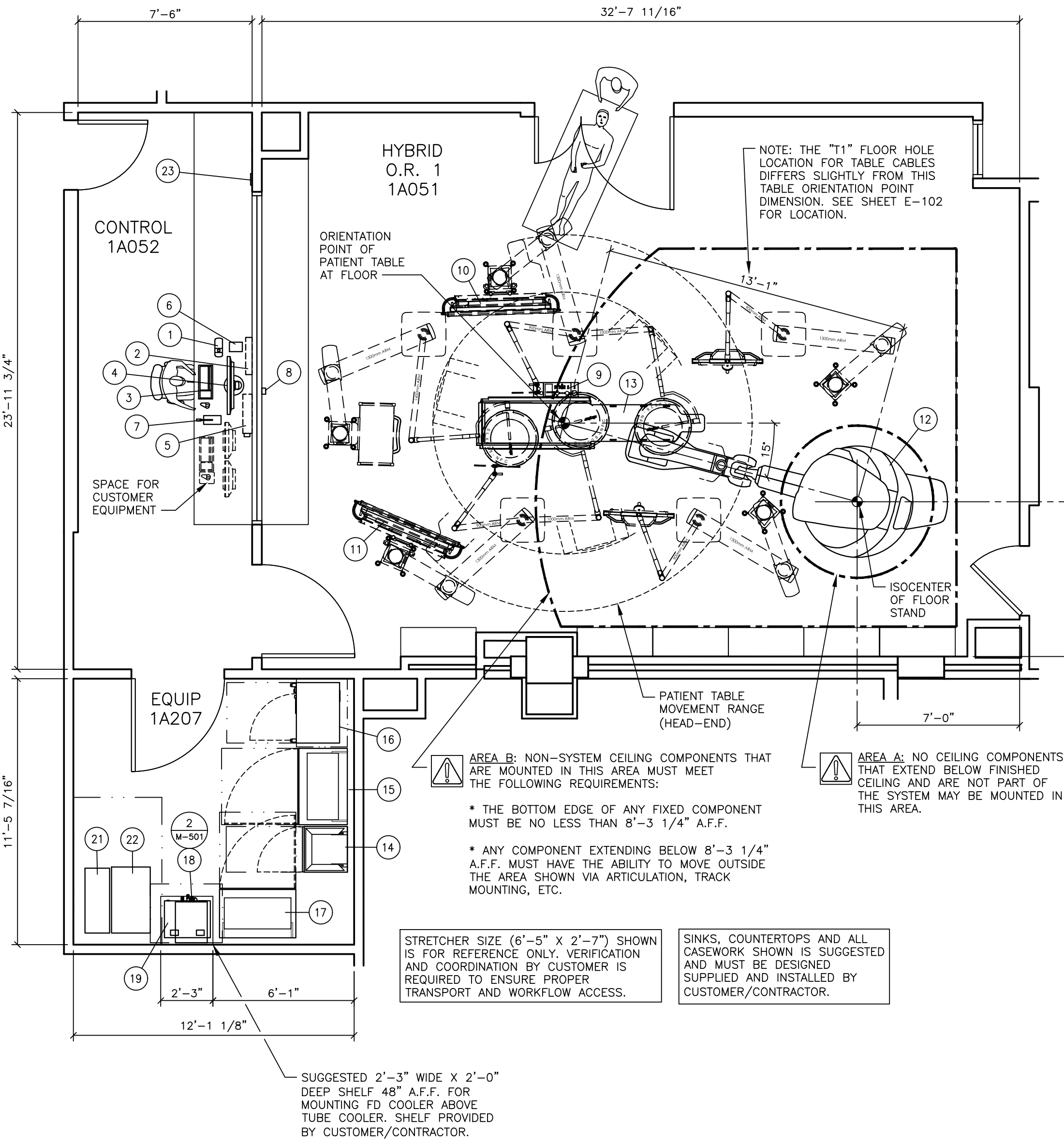
1) IT MUST BE POSSIBLE TO MANUALLY MOVE THE BOOM VERTICALLY WITH A FORCE LESS THAN 85 N (19 LBS) WHEN POSITIONING THE DISPLAY BOOM OVER THE PATIENT.

2) TO AVOID THE RISK OF CRUSHING PERSONS OR DAMAGING EQUIPMENT IN THE EVENT THAT THE ANGIOGRAPHY SYSTEM COMES INTO CONTACT WITH THE DISPLAY BOOM, IT MUST BE POSSIBLE TO PUSH THE BOOM AWAY IN A HORIZONTAL DIRECTION WITH A FORCE LESS THAN 50 N (11 LBS).

3) MOTORIZED, HEIGHT-ADJUSTABLE DISPLAY BOOMS WHICH CANNOT MANUALLY BE PUSHED AWAY MAY NOT BE USED.

#### DELIVERY AND INSTALLATION:

IT IS RECOMMENDED THAT INSTALLATION OF 3RD PARTY DISPLAY BOOMS BE COORDINATED WITH THE INSTALLATION OF THE SIEMENS SYSTEM. IN ORDER TO ENSURE THE SIMULTANEOUS INSTALLATION OF THE SYSTEM AND THE DISPLAY BOOM, THE CUSTOMER SHOULD TAKE STEPS EARLY IN THE PLANNING PROCESS TO ENSURE THAT THE BOOM MANUFACTURER'S LEAD TIME CAN BE COORDINATED WITH THE DELIVERY OF THE SIEMENS EQUIPMENT. THE THIRD-PARTY MANUFACTURER IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF THE DISPLAY BOOM(S). THE THIRD-PARTY MANUFACTURER IS RESPONSIBLE FOR INSTALLING THE SIEMENS COMPONENTS IN THE DISPLAY BOOM IN ACCORDANCE WITH SIEMENS SPECIFICATIONS. SIEMENS ASSUMES NO RESPONSIBILITY FOR ANY DAMAGE TO SIEMENS COMPONENTS WHICH ARE NOT INSTALLED IN ACCORDANCE WITH SIEMENS SPECIFICATIONS. SIEMENS TECHNICIANS MUST BE GIVEN INSTRUCTIONS AND/OR TRAINING AS APPROPRIATE BY THE 3RD PARTY MANUFACTURER FOR MAINTENANCE/SERVICE OF THE SIEMENS COMPONENTS (I.E. DISPLAY, CABLES), OR A TECHNICIAN FROM THE THIRD-PARTY MANUFACTURER MUST BE PRESENT WHENEVER ANY SERVICE WORK IS PERFORMED.



EQUIPMENT LEGEND								
NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
①	CPC (CENTRAL POWER CONTROL)	☐	3	N/A	9 5/8	4	2 1/2	ON CONTROL COUNTER
②	CONTROL INTERFACE BOARD	☐	18	342	19 1/4	3 1/4	13 1/2	ON WALL UNDER COUNTER
③	KEYBOARD	☐	2.2	342	17 1/2	6 1/8	2 1/8	MTD. UNDER COUNTER OR ON CONSOLE
④	32" LARGE CONTROL ROOM DISPLAY	☐	41	512	30	4	18 1/2	ON COUNTER OR CONSOLE
⑤	INJECTOR WALL BOX – CONTROL ROOM	☐	18	342	20 1/4	4 3/4	13 3/8	ON WALL UNDER COUNTER
⑥	INTERCOM POWER UNIT	☐	---	---	6 3/4	5	1 3/8	ON COUNTER
⑦	INTERCOM MICROPHONE/LOUDSPEAKER (CONTROL ROOM)	☐	---	---	4 1/2	9	2	ON COUNTER
⑧	INTERCOM LOUDSPEAKER (PROCEDURE ROOM)	☐	---	---	3 1/4	2	6	WALL MOUNTED
⑨	TABLE CONTROL MODULES	☐	13	---	23	7 1/2	4	ON TABLE OR TROLLEY
⑩	55" LARGE DISPLAY – BOOM 1 (MONITOR ONLY)	☐	90	1,706	49 3/4	5 1/4	29	OEM BOOM MOUNTED
⑪	55" LARGE DISPLAY – BOOM 2 (MONITOR ONLY)	☐	90	1,706	49 3/4	5 1/4	29	OEM BOOM MOUNTED
⑫	ARTIS PHENO FLOOR STAND W/ MOUNTING PLATE	☐	3,428	1,706	---	---	---	ROBOT FLOOR MOUNTED
⑬	PATIENT TABLE	☐	1,200	683	---	---	---	TABLE FLOOR MOUNTED
⑭	GENERATOR (ACX) (VE21 SOFTWARE)	☐	551	4,095	23 5/8	23 1/4	63 1/2	FLOOR MOUNTED
⑮	SYSTEM CONTROL CABINET	☐	870	13,649	39 1/2	25 1/2	74 3/4	FLOOR MOUNTED
⑯	FLOOR STAND CONTROL CABINET	☐	396	3,412	31 1/4	22 1/2	42	FLOOR MOUNTED
⑰	ATIS IMAGE SYSTEM (VE2x VERSION)	☐	772	5,971	39 1/2	25 1/2	74 3/4	FLOOR MOUNTED
⑱	TUBE COOLING UNIT	☐	80	15,355	16 1/2	28 1/4	19 1/4	FLOOR OR SHELF MOUNTED
⑲	FD COOLER	☐	55	1,979	23 5/8	19	11 3/4	FLOOR OR SHELF MOUNTED
⑳	MEDRAD-ARTERION-INJECTOR-INTEGRATED-PEDESTAL MOUNTED (REMOVED)	☐	146	---	47 5/16	22	57 3/8	SEE MFG REQUIREMENTS
㉑	EATON 9355 15KVA UPS AND BATTERY	☐	755	8,134	12 3/4	33 1/2	47 3/4	SEE MFG REQUIREMENTS
㉒	EATON 9355 OUTPUT TRANSFORMER CABINET	☐	490	---	20	34 1/8	66	SEE MFG REQUIREMENTS
㉓	EATON 9355 REMOTE MONITORING DEVICE	☐	0.5	---	6	1	3	SEE MFG REQUIREMENTS

### TRANSPORT/STORAGE FLAT PANEL DETECTOR

IN SYSTEMS WITH FLAT PANEL DETECTORS, THE DETECTOR IS REMOVED FROM THE STAND FOR TRANSPORT TO THE CUSTOMER. THE LIMITED TRANSPORT AND STORAGE CONDITIONS APPLY FOR THE DETECTOR.

#### FLAT PANEL DETECTOR:

TEMPERATURE RANGE: -4° F TO 158° F  
RELATIVE HUMIDITY: 10% TO 95% NON CONDENSING  
AIR PRESSURE: 700 hPa TO 1060 hPa

### TRANSPORT FRAME REQUIREMENTS

	COMPONENT	LENGTH	WIDTH	HEIGHT	WEIGHT
LONGITUDINAL CASTORS	FLOOR STAND	80"	43"	73"	2,811 LBS.
	C-ARM	103"	39"	72"	1,102 LBS.
TRANSVERSE CASTORS	FLOOR STAND	80"	57"	73"	2,811 LBS.
	C-ARM	88"	53"	72"	1,102 LBS.

PROJECT MILESTONES TO BE COMPLETED BEFORE EQUIPMENT DELIVERY		REFERENCE SHEET
<input type="checkbox"/>	Storage area available for storing items during installation	A-101
<input type="checkbox"/>	Lead shielding (walls, doors, windows) complete	A-101
<input type="checkbox"/>	Climate control functioning 24 hours a day, 7 days a week	A-101
<input type="checkbox"/>	Delivery path verified for largest piece, including rails	A-101
<input type="checkbox"/>	Casework complete in control room	A-101
<input type="checkbox"/>	All walls primed and painted, Flooring installed	A-101
<input type="checkbox"/>	Room lighting complete and functional	A-101
<input type="checkbox"/>	Network drops active and IP addresses obtained for Siemens Remote Services (SRS)	A-102
<input type="checkbox"/>	Nothing hanging below ceiling in area shaded on drawing	A-102
<input type="checkbox"/>	Floor thickness and anchoring spec's verified. If req'd, alt solutions per engineer of record in place	S-101
<input type="checkbox"/>	All conduits, troughs, in-floor pull boxes and/or core drills avoid conflict with floor plate anchors	S-101
<input type="checkbox"/>	Unistrut installed to correct height, location, and levelness (check minimum ceiling height)	S-102
<input type="checkbox"/>	Cable runs checked to ensure maximum lengths not exceeded	E-101
<input type="checkbox"/>	X-Ray warning light and wiring installed	E-101
<input type="checkbox"/>	Contractor supplied electrical wiring / pigtails installed	E-102
<input type="checkbox"/>	Cable inlets located per plans	E-102
<input type="checkbox"/>	EPO's installed and functional	E-102
<input type="checkbox"/>	UPS started and functional	E-102
<input type="checkbox"/>	Ancillary equipment (OEM items, booms, etc) installed	E-102
<input type="checkbox"/>	Breakers installed and facility power available	E-501
<input type="checkbox"/>	All rooms containing Siemens equipment are clean and dust-free	A-101

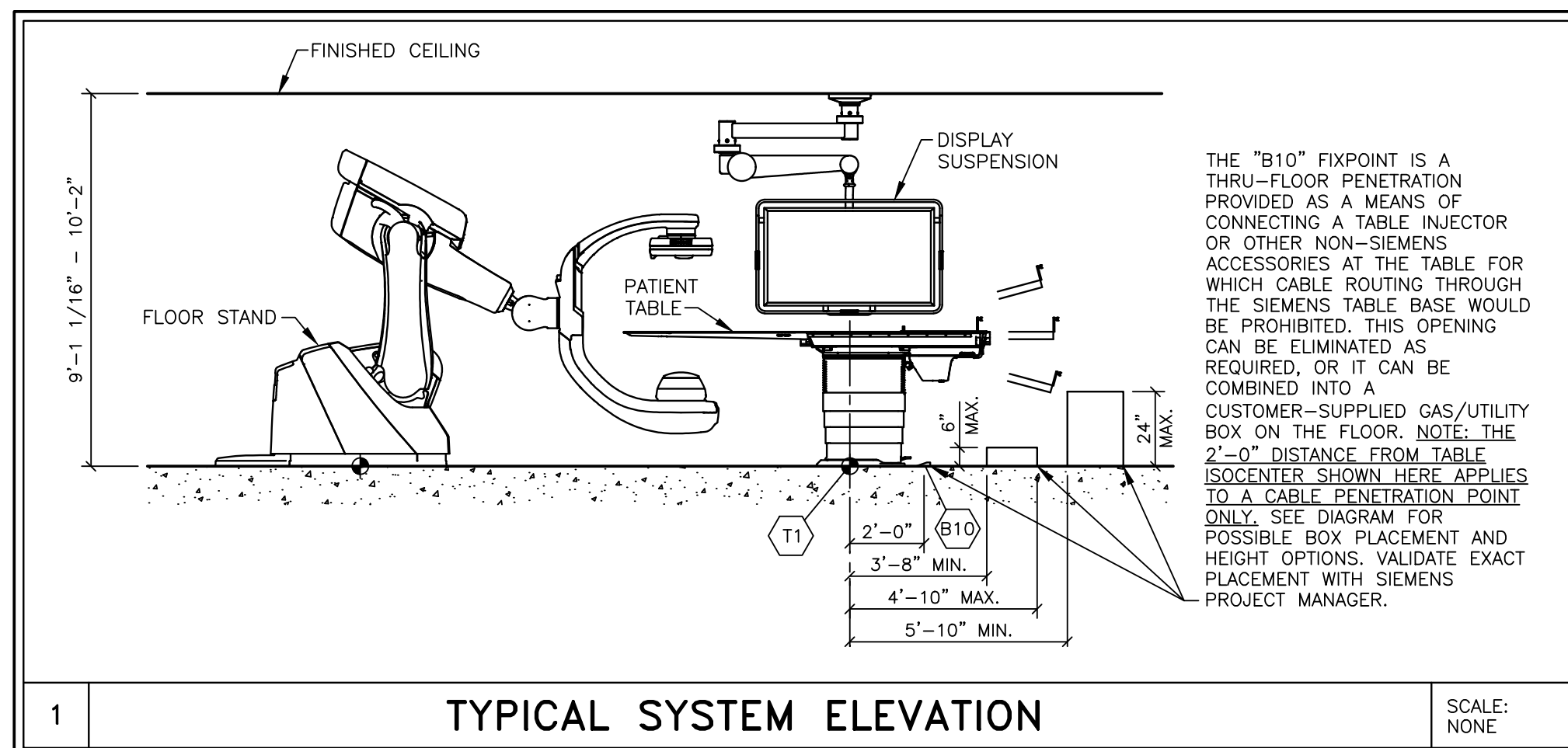
CEILING  
HEIGHT  
RANGE

9'-1 1/16" - 10'-2"

RECOMMENDED  
CEILING  
HEIGHT

9'-6"

### ARCHITECTURAL EQUIPMENT PLAN



## ATTENTION:

— THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

— THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

— IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

— ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.

— THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

### ARCHITECTURAL NOTES

- 1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS HEALTHCARE ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SIEMENS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SIEMENS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SIEMENS. SIEMENS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENROACH ON DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (I.E. PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER.
- 2) SIEMENS HEALTHCARE IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SIEMENS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS INCLUDING OSHA/NEC SAFETY CLEARANCE REQUIREMENTS IN ADDITION TO SIEMENS-REQUIRED SAFETY/SERVICE CLEARANCES SHOWN.
- 3) THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
- 4) EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SIEMENS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.
- 5) ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
- 6) THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST, ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM LOCATION, USE, AND NUMBER OF ANTICIPATED EXAMINATIONS TO BE PERFORMED PER TIME PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.
- 7) SIEMENS HEALTHCARE SHALL BE RESPONSIBLE FOR SIEMENS EQUIPMENT INSTALLATION, CALIBRATION, CONNECTION AND INSTALLATION OF SIEMENS PROVIDED CABLES. THE CUSTOMER/ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR TERMINATIONS OF CUSTOMER/ELECTRICAL CONTRACTOR-SUPPLIED CABLES TO SIEMENS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED APPROVED PARTIES TO PERFORM THIS WORK WITH SUPERVISION PROVIDED BY SIEMENS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.
- 8) THE CUSTOMER SHALL COORDINATE WITH SIEMENS PROJECT MANAGER THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE HUNG OR WALL MOUNTED (I.E.: O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).
- 9) THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR HUNG OR WALL MOUNTED (I.E.: O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).
- 10) CUSTOMER/CONTRACTOR MUST ASSIST SIEMENS INSTALLERS WITH INSTALLATION OF EQUIPMENT ABOVE 14'-0". REFER TO THE ELECTRICAL NOTES ON SIEMENS SHEET E-101 FOR MORE DETAILS.

### MAGNETIC FIELD PRECAUTIONS

THE PRESENCE OF MAGNETIC FIELDS IN THE VICINITY OF EQUIPMENT MAY HAVE AN ADVERSE EFFECT. IT IS THE CUSTOMER'S RESPONSIBILITY TO VERIFY THAT THE FOLLOWING VALUES ARE NOT EXCEEDED.

MAXIMUM ALLOWABLE MAGNETIC FIELD	DEVICES
1.0mT (10 GAUSS)	COMPUTERS, MAGNETIC DISK DRIVES, OSCILLOSCOPES, PROCESSORS
0.5mT (5 GAUSS)	X-RAY TUBES, B/W MONITORS, MAGNETIC DATA CARRIERS, DATA STORAGE DRIVES
0.2mT (2 GAUSS)	SIEMENS CT SCANNERS
0.15mT (1.5 GAUSS)	COLOR MONITORS, SIEMENS LINEAR ACCELERATORS
0.05mT (0.5 GAUSS)	X-RAY IMAGE INTENSIFIERS, GAMMA CAMERAS, PET/CYCLOTRON, OTHER LINEAR ACCELERATORS
MAGNETIC FIELDS SHOULD BE MEASURED PRIOR TO DELIVERY	

### STATE AGENCY REVIEW

PRIOR TO SIEMENS EQUIPMENT INSTALLATION, APPROVAL OF CONSTRUCTION OR STRUCTURAL MODIFYING AND/OR TITR WORK FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES, MUST BE OBTAINED BY THE CUSTOMER FROM THE APPROPRIATE STATE AGENCY, IF APPLICABLE.

### RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
ARTIS PHENO	ATHE-PGR.891.01.02.02	10.20

ARTIS PHENO  
REV. 31

## SIEMENS

### ST LUKES EAST LEES SUMMIT

100 NE SAINT LUKES BLVD, LEES SUMMIT, MO 64086  
HYBRID OR 1 - ARTIS PHENO SURGERY PRO

PROJECT #:

2102395

SHEET: 1 OF 7

DRAWN BY: E. SANDIFER

DATE: 06/08/22

A-101

06/20/22 REMOVED INJECTOR PER SALES ORDER

06/08/22 PRELIMINARY VERSION "B" DATED 04/19/22 APPROVED BY CUSTOMER FOR FINALS

SYM DATE DESCRIPTION

—ISSUE BLOCK—

PROJECT MANAGER: MARK BUXTON

TELEPHONE: (417) 576-7820 EXT:

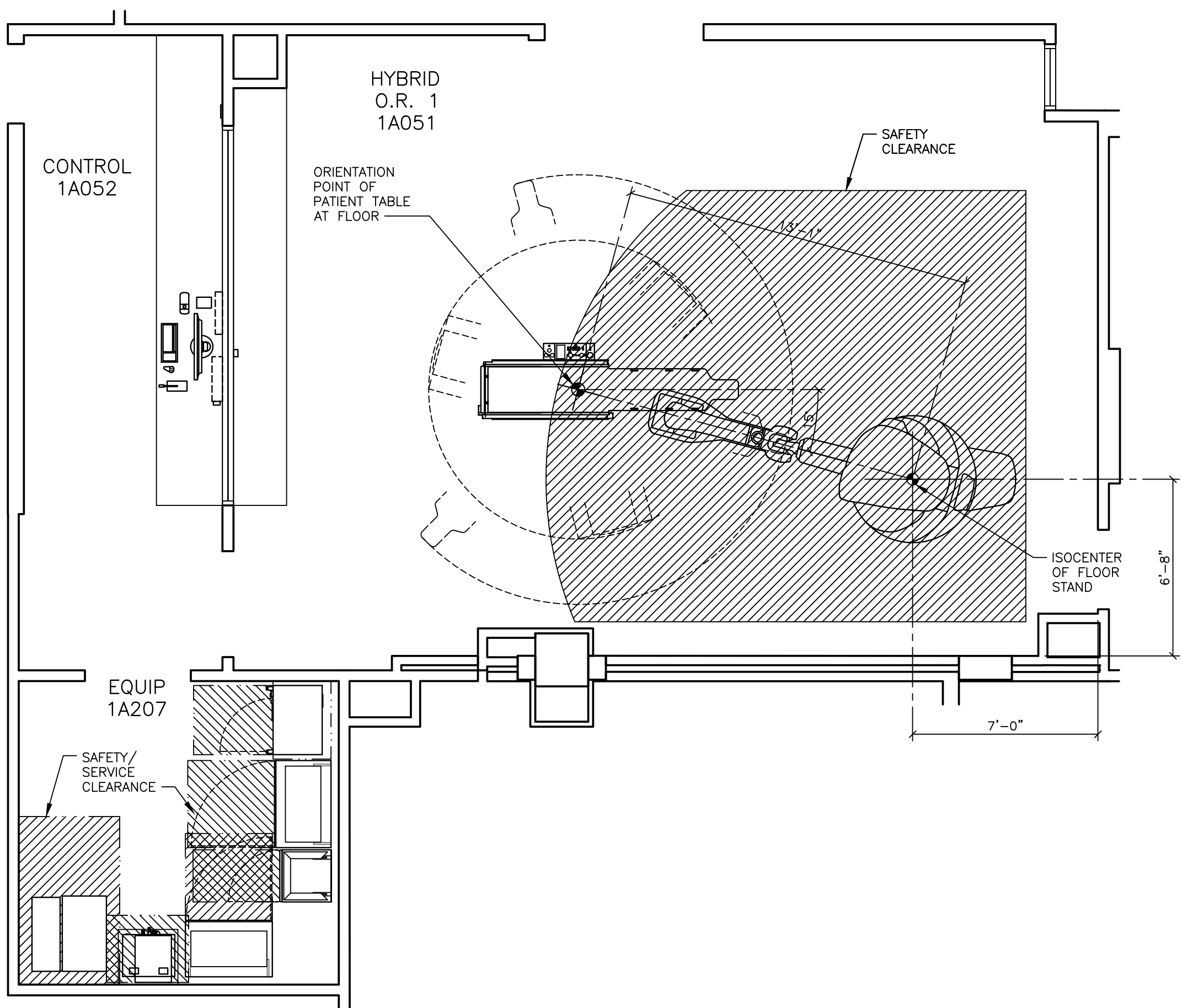
FAX:

EMAIL: MARK.BUXTON@SIEMENS-HEALTHINEERS.COM

ALL RIGHTS ARE RESERVED.

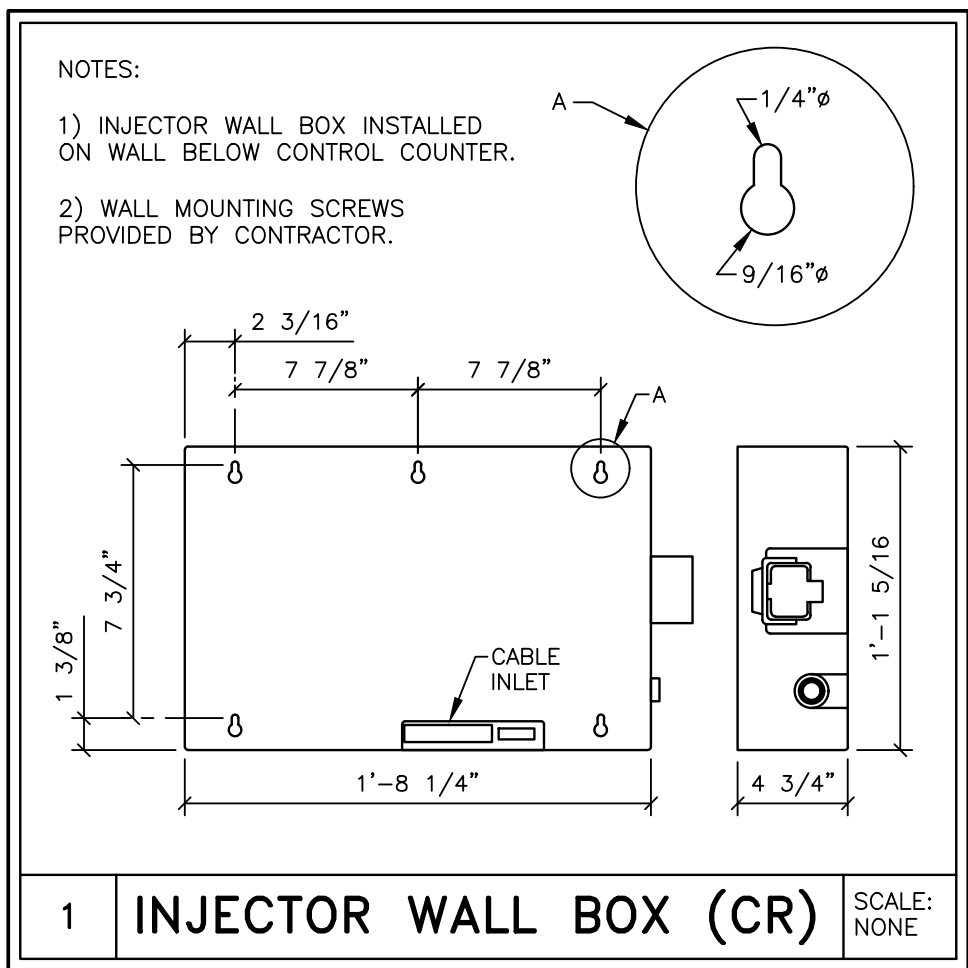
SCALE: AS NOTED REF. # 30267218





SAFETY/SERVICE CLEARANCE PLAN

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



CEILING NOTES

- 1) ALL CEILING MOUNTED LIGHT FIXTURES, MECHANICAL REGISTERS AND SPRINKLER HEADS SHALL BE FLUSH WITH FINISHED CEILING. SHALL BE OUTSIDE OF ALL HATCHED AREAS AND SHALL BE SPECIFIED BY THE ARCHITECT OF RECORD AND SUBSEQUENT CONSULTING ENGINEERS.
- 2) THE ACTUAL CEILING DESIGN AND COORDINATION OF LIGHTING AND MECHANICAL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT OF RECORD AND HIS SUBSEQUENT CONSULTING ENGINEERS.
- 3) THE CUSTOMER/CONTRACTOR SHALL BE RESPONSIBLE FOR FABRICATING, SUPPLYING AND INSTALLING ALL LIGHT, MECHANICAL AND STRUCTURAL SUPPORTING SYSTEMS. SIEMENS MEDICAL SOLUTIONS INC. IS ONLY RESPONSIBLE FOR THE SUPPLYING, INSTALLING AND CALIBRATION OF SMS EQUIPMENT AS SPECIFIED ON THE EQUIPMENT SCHEDULE AS SHOWN ON SHEET A-101.
- 4) ALL ELECTRICAL AND STRUCTURAL SYSTEMS SHOWN ON THE REFLECTED CEILING PLAN HAVE BEEN COORDINATED WITH THE EQUIPMENT LOCATIONS AS SHOWN ON THE 1/4" SCALE ARCHITECTURAL EQUIPMENT PLAN (SHEET A-101). ANY CHANGES TO THE SMS EQUIPMENT CONFIGURATION AS SHOWN, DUE TO PLACEMENT OF LIGHTING, STRUCTURAL, ELECTRICAL AND MECHANICAL SYSTEMS, MUST BE APPROVED IN WRITING BY THE SMS PROJECT MANAGER PRIOR TO THE COMPLETION OF CONSTRUCTION DOCUMENTS.

CEILING  
HEIGHT  
RANGE

9'-1 1/16" - 10'-2"

RECOMMENDED  
CEILING  
HEIGHT

9'-6"

PROJECT MANAGER: MARK BUXTON  
TEL: (417) 576-7820 EXT:  
VMAIL:  
FAX:  
EMAIL: MARK.BUXTON@SIEMENS-HEALTHINEERS.COM

SIEMENS

ST LUKES EAST LEES SUMMIT

100 NE SAINT LUKES BLVD, LEES SUMMIT, MO 64086  
HYBRID OR 1 - ARTIS PHENO SURGERY PRO

PROJECT #:

2102395

SHEET:

A-102

SYM	DATE	DESCRIPTION
△	06/20/22	REMOVED INJECTOR PER SALES ORDER
△	06/08/22	PRELIMINARY VERSION BY DATED 04/19/22 APPROVED BY CUSTOMER FOR FINALS
-ISSUE BLOCK-		

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

ALL RIGHTS ARE RESERVED.

SCALE: AS NOTED REF. # 30267218

SHEET 2 OF 7 DATE: 06/08/22

DRAWN BY: E. SANDIFER

ATTENTION:

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ARTIS PHENO  
REV. 31

REFERENCE DOCUMENT - NOT FOR CONSTRUCTION

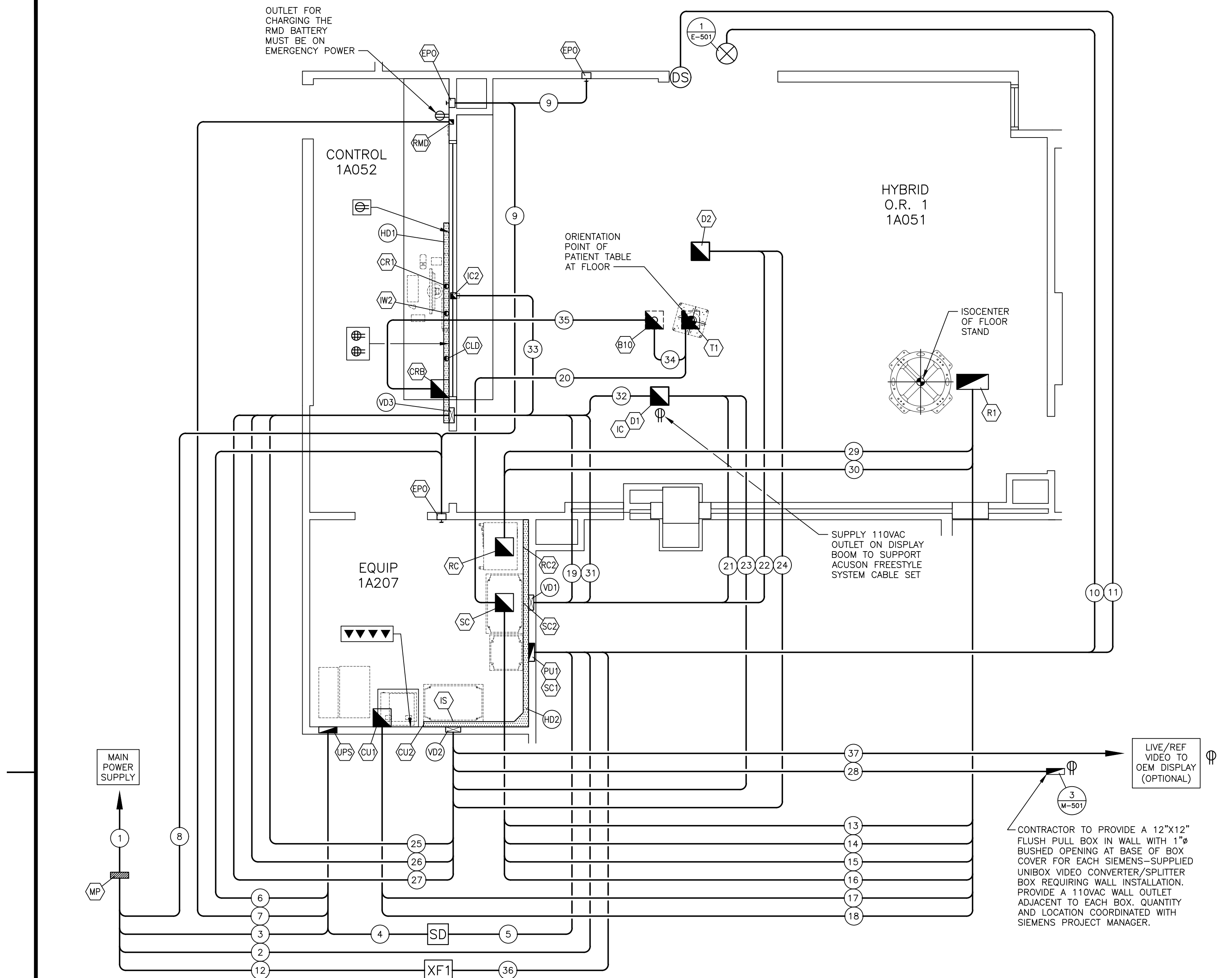






OEM BOOM NOTE: FOR SYSTEMS WITH HARD CEILINGS, REMOVABLE OR DROP DOWN ACCESS PANELS ARE REQUIRED FOR INSTALLATION AND SERVICE OF SYSTEM CABLES. ACCESS MUST BE LARGE ENOUGH AND LOCATED SO THAT SERVICE PERSONNEL CAN ACCESS ALL SIDES OF DUCT OR PULL BOX. ACCESS PANELS ARE TO BE LOCATED BY CUSTOMER/CONTRACTOR IN COORDINATION WITH SIEMENS PROJECT MANAGER AT EVERY BOOM LOCATION, ABOVE CEILING CABLE DUCT JUNCTION, OR PULL BOX LOCATION.

NOTE: THE UPS IS SUPPLIED AND DELIVERED TO CUSTOMER'S LOADING DOCK BY SIEMENS. CUSTOMER'S ELECTRICIAN IS RESPONSIBLE FOR MOVING FROM LOADING DOCK TO FINAL LOCATION AND COMPLETING ALL CONNECTIONS. THE UPS MUST NOT BE LOCATED IN A PATIENT ENVIRONMENT. SIEMENS PROJECT MANAGER WILL SCHEDULE UPS STARTUP PRIOR TO DELIVERY OF SIEMENS IMAGING EQUIPMENT.



## ELECTRICAL RACEWAY PLAN

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

SYMBOLS	
ALL MAY NOT APPLY	
	CIRCUIT BREAKER BY CUSTOMER/CONTRACTOR
	OPENING IN RACEWAY OR TRENCH
	PULLBOX IN (FLOOR/WALL/CEILING)
	OPENING IN ACCESS FLOORING
	WARNING LIGHT (X-RAY ON)
	DOOR SAFETY SWITCH
	(EPO) EMERGENCY POWER OFF BUTTON
	TRENCH DUCT
	CEILING DUCT
	UNDER FLOOR DUCT
	SURFACE DUCT
	VERTICAL DUCT
	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).
	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET
	110 VOLT, 20 AMP, HOSPITAL GRADE QUAD OUTLET

ELECTRICAL LEGEND			
SYM	SIZE	DESCRIPTION	REMARKS
60	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH REMOVABLE TOP COVER WITH 4" BUSHED OPENING.	TABLE ACCESSORIES
61	3"	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	C-ROOM LD INPUTS
62	3"	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	CONTROL ROOM DISTRIBUTOR
63	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH REMOVABLE TOP COVER. CONNECT TO RACEWAY "HD1".	CONTROL ROOM BOX
64	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH REMOVABLE TOP COVER AND (1) 5" BUSHING IN CENTER OF REMOVABLE COVER FOR CABLE EXIT.	COOLING UNITS
65	----	OPENING AT END OF RACEWAY "HD2"	COOLING UNITS
66	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH 4" BUSHED OPENING.	LARGE DISPLAY 1
67	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING WITH REMOVABLE BOTTOM COVER WITH 4" BUSHED OPENING.	LARGE DISPLAY 2
68	----	EMERGENCY OFF BUTTONS FOR CIRCUIT BREAKERS. EPO'S MUST PREVENT RESETTING OF CIRCUIT BREAKERS WHEN IN OFF POSITION. EPO'S MUST BE RECESSED OR SHIELDED. FINAL LOCATION DETERMINED BY CUSTOMER.	EMERGENCY POWER OFF
69	----	FIXPOINT DESIGNATION, SAME PULL BOX AS "D1".	INTERCOM COMFORT MIC
70	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL ABOVE CONTROL WINDOW	INTERCOM COMFORT SPEAKER
71	6"	BUSHED OPENING IN HORIZONTAL DUCT "HD2" COVER AT FLOOR LINE	IMAGE SYSTEM
72	3"	BUSHED OPENING IN TOP OF HORIZONTAL DUCT "HD1".	OPERATION IN CONTROL RM
73	----	MAIN PANEL WITH MAIN BREAKER. LOCATION DETERMINED BY CUSTOMER/CONTRACTOR. SEE "POWER SCHEDULE"	BREAKER PANEL
74	21" X 10"	CUSTOM PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH DEPTH AS REQUIRED FOR BURIED CONDUIT CONNECTIONS. SEE DETAIL 1, SHEET E-102.	FLOOR STAND
75	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH 6" BUSHED OPENING IN TOP COVER.	FLOOR STAND CABINET
76	6"	BUSHED OPENING IN HORIZONTAL DUCT "HD2" COVER AT FLOOR LINE	FLOOR STAND CABINET
77	AS REQUIRED	SINGLE-GANG RJ45 JACK	UPS REMOTE DISPLAY
78	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH REMOVABLE TOP COVER WITH (2) 6" BUSHED OPENINGS.	SYSTEM CABINET
79	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. CONNECT BOX TO RACEWAY "HD2".	SYSTEM CABINET
80	6"	BUSHED OPENING IN HORIZONTAL DUCT "HD2" COVER AT FLOOR LINE	SYSTEM CABINET
81	30A	3-PHASE (PLUS N,G) 30A, 600V HD FUSIBLE SERVICE DISCONNECT LOCATED AT EYE-LEVEL, WITHIN 10' OF SIEMENS SYSTEM CABINET (SC1) AND 30A RKS FUSES. SEE POWER SCHEDULE.	UPS SERVICE DISCONNECT
82	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED FLOOR WITH REMOVABLE TOP COVER WITH 5" BUSHED OPENING. SEE DETAIL 4, SHEET S-101 FOR TABLE ANCHOR PATTERN. DO NOT CUT CONCRETE WITHIN 3 1/2" OF TABLE ANCHORS.	TABLE
83	AS REQUIRED	PULL BOX MOUNTED FLUSH IN FINISHED WALL AT FLOOR LINE. PROVIDE BOX WITH REMOVABLE FRONT COVER WITH 4" BUSHED OPENING.	15KVA UPS
84	1.5KVA	STEP-DOWN TRANSFORMER. SEE POWER SCHEDULE.	XFMR FOR TABLE OUTLET
85	3 1/2" X 10"	HORIZONTAL DUCT MOUNTED ON FINISHED WALL AT FLOOR LINE. PROVIDE DUCT WITH REMOVABLE FRONT COVER. CONNECT TO VERTICAL DUCT "VD3" AS SHOWN.	HORIZONTAL WALL DUCT
86	3 1/2" X 18"	HORIZONTAL DUCT MOUNTED ON FINISHED WALL AT FLOOR LINE. PROVIDE DUCT WITH REMOVABLE FRONT COVER. CONNECT TO VERTICAL DUCTS "VD1" AND "VD2" AS SHOWN.	HORIZONTAL WALL DUCT
87	3 1/2" X 10"	VERTICAL DUCT MOUNTED FLUSH IN FINISHED WALL. BEGIN DUCT AT FLOOR LINE AND EXTEND UP WALL ABOVE FINISHED CEILING. PROVIDE JUNCTION BOX (SIZED BY E.C.) AT TOP OF DUCT FOR CONDUIT TRANSITIONS.	VERTICAL DUCT
88	EC TO SIZE	CONDUIT FROM PANEL TO "MP"	SEE "POWER SCHEDULE"
89	EC TO SIZE	CONDUIT FROM "MP" TO "PU1"	SEE "POWER SCHEDULE"
90	EC TO SIZE	CONDUIT FROM "MP" TO "UPS" WITH FLEX CONDUIT FROM UPS BOX TO UPS CABINET.	SEE "POWER SCHEDULE"
91	EC TO SIZE	CONDUIT FROM "UPS" TO "SD" WITH FLEX CONDUIT FROM UPS BOX TO OUTPUT XFMR CABINET.	SEE "POWER SCHEDULE"
92	EC TO SIZE	CONDUIT FROM "SD" TO "SC1"	SEE "POWER SCHEDULE"
93	3/4"	CONDUIT FROM "UPS" TO "EPO" WITH FLEX CONDUIT FROM UPS BOX TO UPS CABINET.	SEE "POWER SCHEDULE"
94	3/4"	CONDUIT FROM "RMD" TO "UPS"	SEE "POWER SCHEDULE"
95	3/4"	CONDUIT FROM "MP" TO "EPO"	SEE "POWER SCHEDULE"
96	EC TO SIZE	CONDUIT FROM "EPO" TO "EPO"	
97	EC TO SIZE	CONDUIT FROM "SC1" TO "WL"	
98	EC TO SIZE	CONDUIT FROM "SC1" TO "DS"	
99	EC TO SIZE	CONDUIT FROM "MP" TO "XF1" (OPTIONAL)	TABLE POWER OUTLET
100	2"	CONDUIT FROM "R1" TO "SC" (PU1) IN FLOOR	MAX. CONDUIT LENGTH 50'
101	(2) 3"	CONDUIT FROM "R1" TO "SC" (PU1) IN FLOOR	MAX. CONDUIT LENGTH 50'
102	2"	CONDUIT FROM "R1" TO "SC" (SC1) IN FLOOR	MAX. CONDUIT LENGTH 47'
103	4"	CONDUIT FROM "R1" TO "SC" (SC1) IN FLOOR	MAX. CONDUIT LENGTH 48'
104	3"	CONDUIT FROM "R1" TO "CU1" IN FLOOR FOR LIQUID COOLING HOSES	MAX. CONDUIT LENGTH 90'
105	2"	CONDUIT FROM "R1" TO "CU1" IN FLOOR FOR LIQUID COOLING HOSES	MAX. CONDUIT LENGTH 42'
106	2"	CONDUIT FROM "VD1" (SC1) TO "VD3" (CR1)	MAX. CONDUIT LENGTH 31'
107	(2) 3"	CONDUITS FROM "SC" (SC1) TO "T1" IN FLOOR	MAX. CONDUIT LENGTH 40'
108	3"	CONDUIT FROM "VD1" (SC1) TO "D1"	MAX. CONDUIT LENGTH 50'
109	3"	CONDUIT FROM "VD1" (SC1) TO "D2"	MAX. CONDUIT LENGTH 50'
110	2 1/2"	CONDUIT FROM "VD2" (IS) TO "D1"	MAX. CONDUIT LENGTH 62'
111	2 1/2"	CONDUIT FROM "VD2" (IS) TO "D2"	MAX. CONDUIT LENGTH 62'
112	(2) 2"	CONDUITS FROM "VD2" (IS) TO "VD3" (CR1)	MAX. CONDUIT LENGTH 28'
113	2 1/2"	CONDUITS FROM "VD2" (IS) TO "VD3" (CR1)	MAX. CONDUIT LENGTH 57'
114	(2) 3"	CONDUITS FROM "VD2" (IS) TO "VD3" (CLD)	MAX. CONDUIT LENGTH 80'
115	VARIES	CONDUIT(S) FROM "VD2" (IS) TO CUSTOMER SOURCES	MAX. CONDUIT LENGTH 80'
116	6"	CONDUIT FROM "RC" TO "R1" IN FLOOR	MAX. CONDUIT LENGTH 40'
117	3"	CONDUIT FROM "RC" TO "R1" IN FLOOR	MAX. CONDUIT LENGTH 40'
118	2"	CONDUIT FROM "VD1" (SC1) TO "VD3" (W2)	MAX. CONDUIT LENGTH 31'
119	3/4"	CONDUIT FROM "VD3" TO "IC"	MAX. CONDUIT LENGTH 62'
120	3/4"	CONDUIT FROM "VD3" TO "IC2"	MAX. CONDUIT LENGTH 62'
121	3"	CONDUIT FROM "T1" TO "B10" IN FLOOR	
122	3"	CONDUIT FROM "CRB" TO "B10" IN FLOOR (OPTION) (CUSTOMER PATIENT MONITORING)	
123	2"	CONDUIT FROM "XF1" TO "SC1" ("T1") (OPTIONAL TABLE POWER OUTLET)	MAX. CONDUIT LENGTH 60'
124	1 1/2"	CONDUIT FROM "VD2" (IS) TO "CUSTOMER MONITOR" (LIVE+REF VIDEO TO OEM OPTION)	MAX. CONDUIT LENGTH 80'

## ELECTRICAL NOTES

- COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (NECA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY WITH ANSI, IEEE AND NEMA STANDARDS AND ARE U.L. LISTED AND LABELED. THE CUSTOMER'S/CONTRACTOR'S WORK AND ALL EQUIPMENT INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE ADOPTED/ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT INTO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SIEMENS PROJECT MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY THE SIEMENS PROJECT MANAGER.
- POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS HEALTHCARE EQUIPMENT SHALL BE FROM A MEDICAL IMAGING PANEL OR BUILDING SERVICE EQUIPMENT THAT IS A GROUNDING 3 OR 4-WIRE "WYE" SOURCE PER THE SPECIFIC EQUIPMENT OPERATION REQUIREMENTS. A DEDICATED CIRCUIT SHALL BE PROVIDED THAT IS KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING. NO ELEVATORS, GENERATORS, PUMPS, HVAC OR SIMILAR EQUIPMENT SHALL BE CONNECTED TO THE SAME CIRCUIT OR MEDICAL IMAGING PANEL THAT SERVES THE SIEMENS HEALTHCARE EQUIPMENT. IF THE POWER SUPPLY SOURCE DOES NOT MEET THE SPECIFIC SIEMENS EQUIPMENT POWER REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT REQUIRED TO ESTABLISH THE POWER SUPPLY IN ACCORDANCE WITH THE REQUIRED POWER SUPPLY PARAMETERS OF THE SIEMENS EQUIPMENT. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER AND/OR UTILITY COMPANY FIELD REPRESENTATIVE.
- WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS HEALTHCARE BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING, UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, ACCESS PANELS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.
- RACEWAY AND CONDUIT NOTES: ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE.  
CONDUIT BODIES SHALL NOT BE USED, WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. ALL CONNECTORS FOR EMT SHALL BE COMPRESSION OR DOUBLE SET SCREW TYPE.  
KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAYS RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY.  
CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS HEALTHCARE CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS. LISTED CONDUIT SIZES FOR SIEMENS-SUPPLIED CABLES MUST BE MAINTAINED IN ORDER TO ENABLE THE TOTAL CABLE BUNDLE INCLUDING CONNECTORS TO BE PULLED THROUGH WITHOUT DAMAGE.  
PROVIDE ENCLOSED METAL WIRE DUCT RACEWAY SYSTEM WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT INTO TWO OR THREE SEPARATE COMPARTMENTS AS SHOWN ON THE SIEMENS PLANS (FOR POWER AND SIEMENS HEALTHCARE CABLES). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM CERTIFICATION OF THE EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS.  
PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE COVERS. LOCATIONS OF BUILDING MATERIAL OPENINGS (I.E. ACCESS PANELS) TO BE CUT IN FIELD ARE TO BE COORDINATED WITH THE DRAWING REQUIREMENTS AND BUILDING STRUCTURE. THOSE THAT ARE NOT INDICATED OR INTERFERE WITH BUILDING ELEMENTS SHALL BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. CONTRACTORS MUST PROVIDE PULL STRINGS FOR ALL CONDUIT AND WIRE DUCT/RACEWAY. IN-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.  
WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED HIGHER THAN 14 FEET ABOVE FINISHED FLOOR, THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP THE SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE. WHEN JUNCTION BOXES AND WIRE DUCT/RACEWAY ARE MOUNTED ABOVE A HARD CEILING (I.E. SHEET ROCK), A 24" X 24" ACCESS PANEL IS REQUIRED AT EACH JUNCTION BOX AND WITHIN 2 FEET OF EACH RACEWAY TRANSITION (SUCH AS A 90 DEGREE ELBOW OR TEE) IN DUCT/RACEWAY. THERE MUST BE FREE AND CLEAR ACCESS TO JUNCTION BOXES AND WIRE DUCT/RACEWAY. WHEN ACCESS PANELS ARE LOCATED MORE THAN 3 FEET FROM JUNCTION BOXES AND WIRE DUCT/RACEWAY THE ELECTRICAL CONTRACTOR SHALL PROVIDE TWO ELECTRICIANS TO HELP SIEMENS INSTALLERS PULL SIEMENS SUPPLIED CABLES AT CUSTOMER'S EXPENSE.
- WIRING: ALL WIRING INSTALLED SHALL BE 600 VOLT CLASS, STRANDED TYPE THHN/THWN-2, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 90° C (194° F). SIZED AS INDICATED, INSTALLED IN METAL RACEWAYS. THE CUSTOMER/CONTRACTOR SHALL LEAVE A MINIMUM 10 FEET OF WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY THE CUSTOMER/ELECTRICAL CONTRACTOR.
- SHORT CIRCUIT REQUIREMENTS: ALL CIRCUIT BREAKERS SUPPLIED FOR THE SIEMENS EQUIPMENT REQUIREMENTS SHALL BE RATED HIGHER THAN THE SHORT CIRCUIT AVAILABLE AT THE TERMINUS OF THE ELECTRICAL EQUIPMENT AS DETERMINED BY THE ENGINEER OF RECORD, BUT NOT LESS THAN 35,000A RMS SYMMETRICAL AT 480V, 3-PHASE, 60 HERTZ. THE CONTRACTOR SHALL OBTAIN THE CORRECT SHORT CIRCUIT CURRENT RATING OF ALL THE NEW EQUIPMENT FOR INSTALLATION FROM THE ENGINEER OF RECORD.

## CONDUIT LENGTH CALCULATIONS

IF SITE-SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED VALUES, THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE ELECTRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS LISTED.

IF DUCT LOCATIONS ARE ALTERED FROM THE SHOWN LAYOUT, IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECALCULATE THE MAXIMUM CONDUIT LENGTHS.

ASSUMED VALUES USED IN CALCULATING STATED MAXIMUM CONDUIT LENGTHS:

VERTICAL DUCTS - 12'-0"

FLOOR PENETRATIONS - 3'-0"

CEILING HEIGHT RANGE	RECOMMENDED CEILING HEIGHT
9'-1 1/16" - 10'-2"	9'-6"

SYM	DATE	DESCRIPTION
△	06/20/22	REMOVED INJECTOR PER SALES ORDER
△	06/08/22	PRELIMINARY VERSION BY DATED 04/19/22 APPROVED BY CUSTOMER FOR FINALS
-ISSUE BLOCK-		

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TELEPHONE: (417) 576-7820  
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**SIEMENS**  
**ST LUKES EAST LEES SUMMIT**  
100 NE SAINT LUKES BLVD, LEES SUMMIT, MO 64086  
HYBRID OR 1 - ARTIS PHENO SURGERY PRO

PROJECT #:	SHEET:
<b>2102395</b>	<b>E-101</b>
SHEET OF 7	DRAWN BY: E. SANDIFER
DATE: 06/08/22	

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SCALE: AS NOTED  
REF. #: 30267218

## ATTENTION:

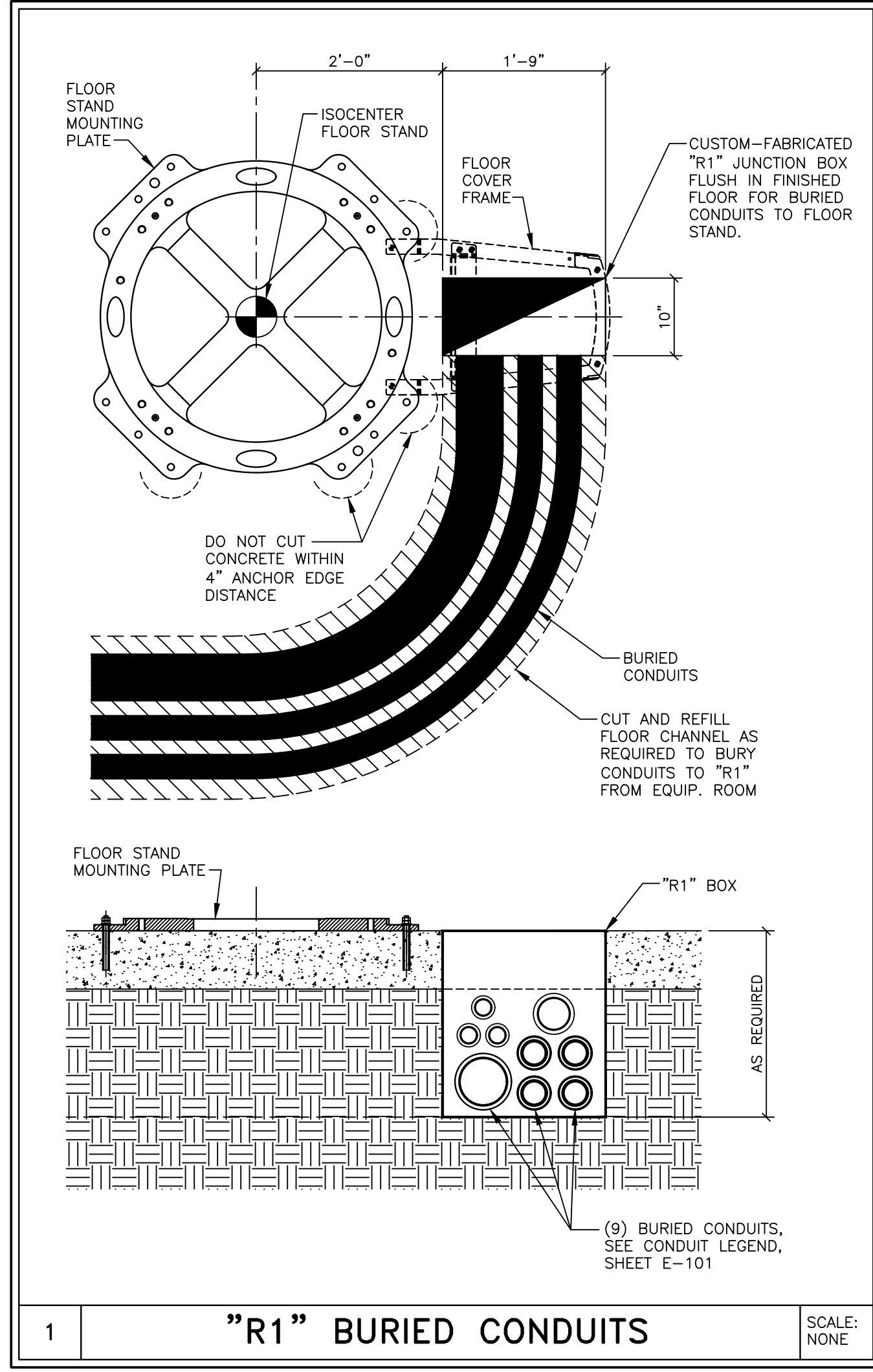
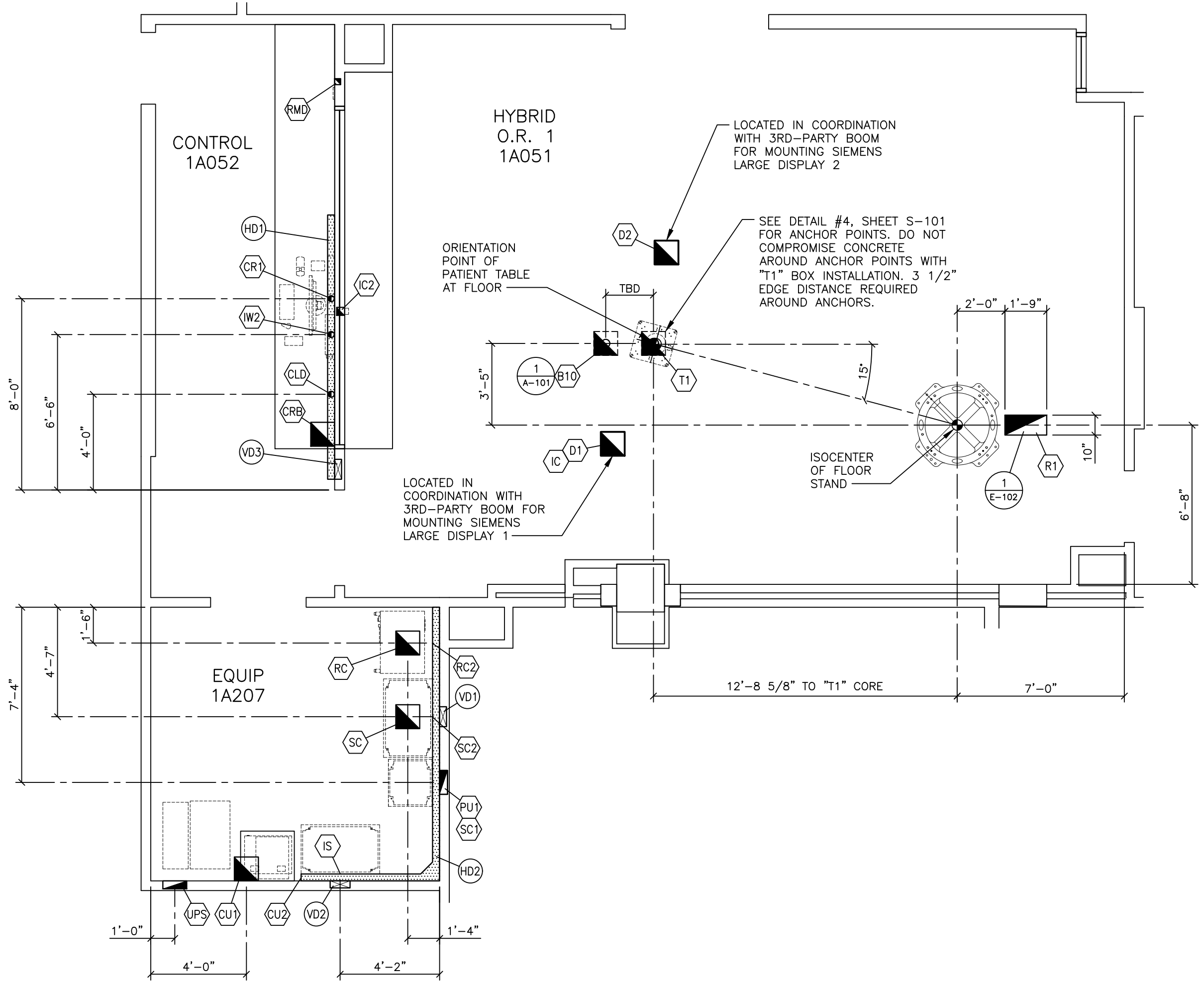
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- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

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- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.  
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

ARTIS PHENO  
REV. 31





CONTRACTOR SUPPLIED CABLES				
FROM	VIA	TO	DESCRIPTION	REMARKS
PANEL	1	MP	ELECTRICAL CONTRACTOR TO SIZE PLUS GROUND	SEE "POWER SCHEDULE"
MP	2	PU1	3#2, 1#2 GROUND AND CONNECT	SEE "POWER SCHEDULE"
MP	3	UPS	ELECTRICAL CONTRACTOR TO SIZE	SEE "POWER SCHEDULE"
UPS	4	SD	ELECTRICAL CONTRACTOR TO SIZE PLUS GROUND	SEE "POWER SCHEDULE"
SD	5	SC1	ELECTRICAL CONTRACTOR TO SIZE PLUS GROUND (MAX #6 AWG)	SEE "POWER SCHEDULE"
UPS	6	EPO	2#12	SEE "POWER SCHEDULE"
RMD	7	UPS	CAT 5 NETWORK CABLE, UP TO 328'	SEE "POWER SCHEDULE"
MP	8	EPO	2#12	SEE "POWER SCHEDULE"
EPO	9	EPO	4#12, PLUS GROUND	SEE "POWER SCHEDULE"
SC1	10	WL	14-18 AWG	SEE "LIGHTING DETAIL" SHEET E-501
SC1	11	DS	24V SIGNAL, 2#14-18 AWG	DOOR SWITCH
MP	12	XF1	EC TO SIZE (OPTIONAL TABLE POWER OUTLET)	SEE "POWER SCHEDULE"

SIEMENS SUPPLIED CABLES				
FROM	VIA	TO	DESCRIPTION	REMARKS
R1	13,SC	PU1		MAXIMUM LENGTH 57'
R1	14,SC	PU1	(2) HIGH VOLTAGE CABLES	MAXIMUM LENGTH 57'
R1	15,SC	SC1		MAXIMUM LENGTH 51'
R1	16,SC	SC1		MAXIMUM LENGTH 52'
R1	17	CU1	LIQUID COOLING HOSES (KLUVER TUBE COOLER)	MAXIMUM LENGTH 96'
R1	18	CU1	LIQUID COOLING HOSES (FD COOLER)	MAXIMUM LENGTH 52'
SC1	19,VD1,VD3,HD1	CR1	FOR CONTROL ROOM OPTIONS (CONTROL MODULES, FOOT SWITCH, DISPLAY, ECC)	MAXIMUM LENGTH 62'
SC1	20,SC	T1		MAXIMUM LENGTH 45'
SC1	HD2	CU1	KLUVER TUBE COOLER	MAXIMUM LENGTH 98'
SC1	HD2	CU2	FD COOLER	MAXIMUM LENGTH 32'
SC1	CABINET BASE	PU1		MAXIMUM LENGTH 16'
SC1	HD2	IS		MAXIMUM LENGTH 26'
SC1	21,VD1	D1	LARGE DISPLAY 1	MAXIMUM LENGTH 62'
SC1	22,VD1	D2	LARGE DISPLAY 2	MAXIMUM LENGTH 62'
IS	23,VD2	D1	LARGE DISPLAY 1	MAXIMUM LENGTH 75'
IS	24,VD2	D2	LARGE DISPLAY 2	MAXIMUM LENGTH 75'
IS	25,VD2,VD3,HD1	CR1		MAXIMUM LENGTH 59'
IS	26,VD2,VD3,HD1	CR1		MAXIMUM LENGTH 88'
T1	CONDUIT 20	IS	CAT AND FIBER CABLES	MAXIMUM LENGTH 118'
T1	CONDUIT 20	IS	FIBER CABLES FOR LD INPUTS AT TABLE SIDE	MAXIMUM LENGTH 118'
IS	27,VD2,VD3,HD1	CLD	CUSTOMER LD INPUTS IN CONTROL ROOM	MAXIMUM LENGTH 118'
IS	28,VD2	CUSTOMER SOURCES	CUSTOMER LD INPUTS IN PROCEDURE ROOM	MAXIMUM LENGTH 118'
SC1	HD1	RC		MAXIMUM LENGTH 32'
RC	29	R1		MAXIMUM LENGTH 44'
RC	30	R1		MAXIMUM LENGTH 44'
SC1	31,VD1,VD3,HD1	IW2	2ND OPERATION IN CONTROL RM (HANDSWITCH, INJECTOR, ETC.)	MAXIMUM LENGTH 62'
VD3	32	IC	INTERCOM PROCEDURE ROOM MICROPHONE	MAXIMUM LENGTH 82'
VD3	33	IC2	INTERCOM PROCEDURE ROOM LOUDSPEAKER	MAXIMUM LENGTH 82'
T1	34	B10		
CRB	35	B10	CUSTOMER PATIENT MONITORING, ETC.	
XF1	36	T1	OPTIONAL TABLE POWER OUTLET	MAXIMUM LENGTH 91'
IS	37,VD2	CUSTOMER MONITOR	LIVE+REF VIDEO TO OEM (OPTION)	MAXIMUM LENGTH 110'

ELECTRICAL DIMENSION PLAN

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

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CEILING HEIGHT RANGE	RECOMMENDED CEILING HEIGHT
9'-1 1/16" - 10'-2"	9'-6"

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100 NE SAINT LUKES BLVD, LEES SUMMIT, MO 64086  
HYBRID OR 1 - ARTIS PHENO SURGERY PRO

PROJECT #:  
**2102395**

SHEET:  
**E-102**

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SCALE: AS NOTED

REF. #: 30267218

DATE: 06/08/22

SHEET 5 OF 7

DRAWN BY: E. SANDIFER











ST. LUKES EAST HOSPITAL  
HYBRID OR 1

-  
100 NE ST LUKES BLVD,  
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DATE: 05 JUL 22

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ENGINEERING APPROVAL

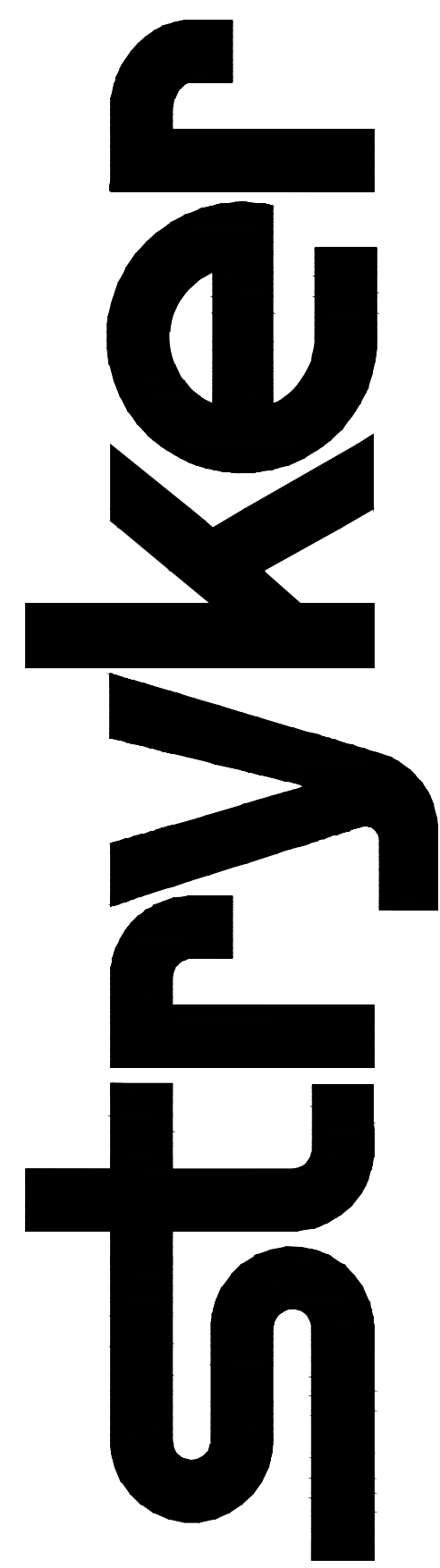
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REP: TRACEY WISTROM  
PM: FRED SIMPSON

SHEET:  
TITLE



NOTES: (UNLESS OTHERWISE SPECIFIED)

SUMMARY LIST OF CHANGES		
KEY #	DESCRIPTION OF CHANGE	ROOM #
1	CHANGED MOUNT "D" FROM POWERED TO FIXED BOOM	HYBRID OR 1
2	ADDED LOCATION OF PTZ CAMERA TO WEST WALL	HYBRID OR 1
3	CHANGED LIGHT/LEAD SHIELD ARMS FROM $\frac{1000}{900}$ TO $\frac{1100}{1000}$ ON MOUNTS "F" AND "F1"	HYBRID OR 1
4	ADDED IN-LIGHT CAMERA TO MOUNT "F"	HYBRID OR 1
5	CHANGED MOUNT "E1" FROM ANESTHESIA TO UTILITY BOOM	HYBRID OR 1
6	ADDED CONDUIT FOR PTZ CAMERA TO CONDUIT SCHEDULE	HYBRID OR 1
7	ADDED CONDUIT FOR "L-X" IN CONDUIT SCHEDULE	HYBRID OR 1

SCALE: 3/8" = 1'

FINAL

AUTOCAD DRAWING TEMPLATE | TEM100XX | REV. A

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REVISION SUMMARY

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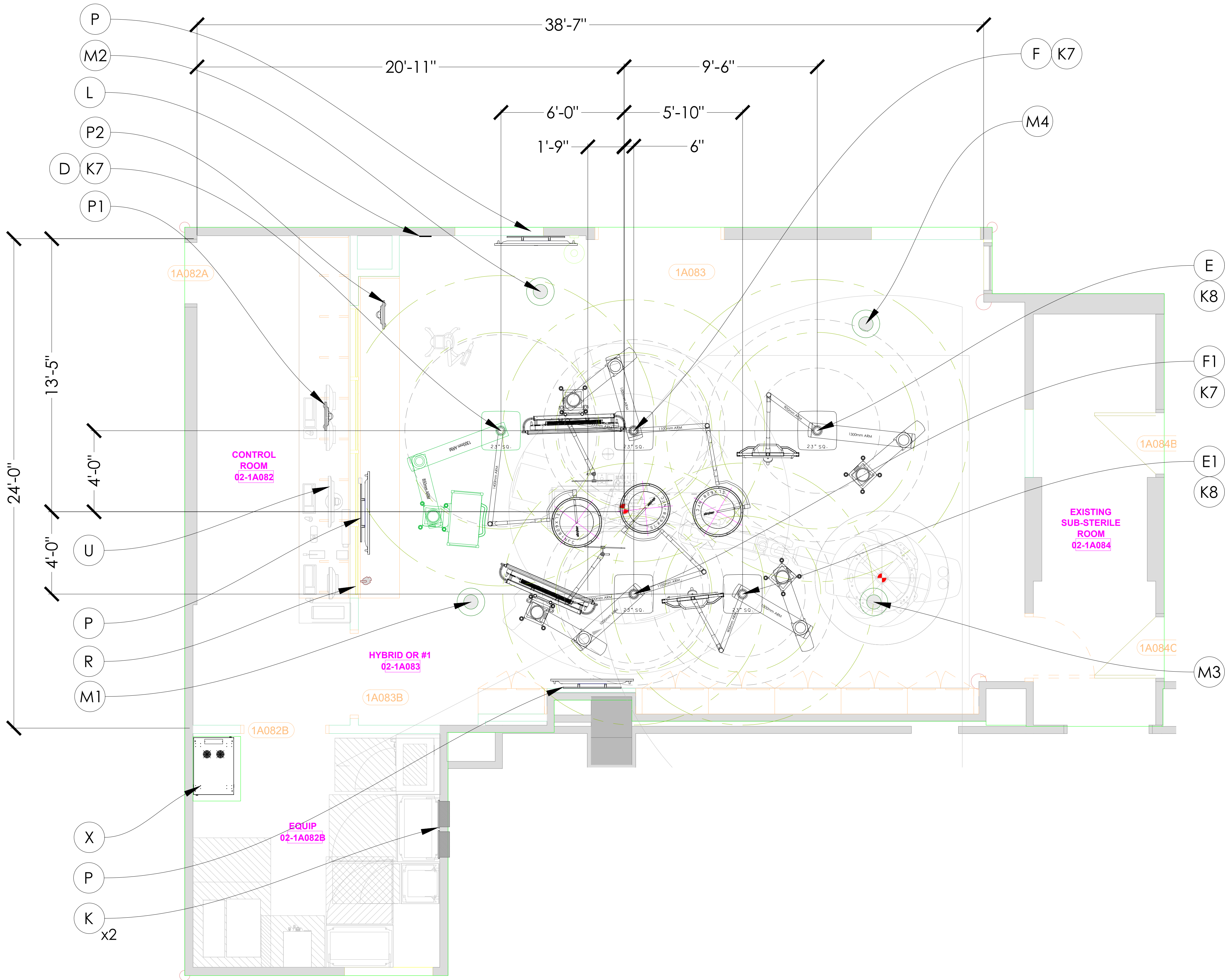
REP: TRACEY WISTROM PM: FRED SIMPSON
SHEET: C - 1



NOTES: (UNLESS OTHERWISE SPECIFIED)

EQUIPMENT SCHEDULE		
KEY ITEM	NAME	QTY
D	S-SERIES SFS-3-C EQUIPMENT BOOM 1300mm TOP ARM & 850mm BOTTOM ARM WITH 1400mm 628 NFC ARM	1
E	S-SERIES SPS-2-C ANESTHESIA BOOM 1300mm TOP ARM WITH 900mm UDM ARM	1
E1	S-SERIES SPS-2-C UTILITY BOOM 1000mm TOP ARM WITH 900mm UDM ARM	1
F	S-SERIES SPS-2-C MONITOR BOOM 1000mm TOP ARM WITH 1100mm SLX 628 NFC ARM & 1000mm LEAD SHIELD ARM WITH IN-LIGHT CAMERA	1
F1	S-SERIES SPS-2-C MONITOR BOOM 1000mm TOP ARM WITH 1100mm SLX 628 NFC ARM & 1000mm LEAD SHIELD ARM	1
K	SLX SK BOX (RECESSED)	2
K7	TC LIGHT JUNCTION BOX	3
K8	TC UDM JUNCTION BOX	2
L	SLX WALL CONTROL (RECESSED)	1
M1-M4	CEILING MOUNTED CIRCULAR SPEAKERS	4
P	55" WALL MONITOR	3
P1	PRIMARY COR IP TOUCHPANEL	1
P2	SECONDRAY COR IP TOUCHPANEL	1
R	WALL MOUNTED PTZ CAMERA	1
U	CONTROL ROOM DESK	1
X	COR IP RACK (ADJACENT)	1

CONDUIT SCHEDULE		
CONDUIT RUN ITEM - ITEM	CONDUIT QTY	CONDUIT SIZE
D - F	1	1"
D - X	2	2"
E - X	1	2"
E1 - X	1	2"
F - F1	1	1"
F - X	1	2"
K - L	1	1"
K - *	1	1"
K7 - K	2	1"
K8 - X	1	1 1/4"
L - X	1	1"
M1 - M2	1	3/4"
M1 - X	1	3/4"
M3 - M4	1	3/4"
M3 - X	1	3/4"
P - X	1	1 1/4"
P1 - X	1	1 1/4"
P2 - X	1	1 1/4"
R - X	1	1 1/4"
U - X	3	1 1/2"
* - NEAREST ELECTRICAL PANEL		



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SCALE: 3/8" = 1'

AUTOCAD DRAWING TEMPLATE | TEM100XX | REV. A

PLOT STAMP: COAXUM, JARMEL | DATE: 7/5/2022 2:21 PM



NOTES: (UNLESS OTHERWISE SPECIFIED)

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2. CONDUIT RUNS CANNOT EXCEED 45' FROM END-TO-END. DO NOT EXCEED FOUR (4) 90 DEGREE BENDS.
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4. THE PRE-INSTALL MANUAL REQUIREMENTS SUPERSEDE ALL PRE-INSTALL NOTES IN THIS DRAWING PACKAGE.
5. EQUIPMENT LIST:

PRE-INSTALL NOTES SCHEDULE	
KEY ITEM	NAME
D F F1	<div>S-SERIES TC BOOM WITH LIGHT</div> <div>S-SERIES TC BOOM WITH LIGHT/LEAD SHIELD</div> <div>STRUCTURAL: - STRYKER COMMON PRE-INSTALL PLATE SHALL BE INSTALLED BY CUSTOMER/CONTRACTOR AT 3-INCH, ± .25-INCH ABOVE FINISHED CEILING PER CUSTOMER PROVIDED STRUCTURAL ENGINEER SPECS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THREADED HOLES DURING THE PLATE WELDING/INSTALLATION PROCESS, TO PREVENT SLAG FROM OBSTRUCTING THREADED HOLES. - TO ENSURE ADEQUATE ROOM FOR INSTALLATION OF THE S-SERIES BOOM THE OWNER AND/OR CONTRACTOR MUST ENSURE THAT STRUCTURAL/UTILITY COMPONENTS DO NOT INTERFERE WITH ANY PART OF THE S-SERIES BOOM. THIS “NO-FLY” ZONE EXTENDS 12-INCHES FROM THE MOUNTING PLATE ON ALL SIDES, AND 16-INCHES UP FROM THE FINISHED CEILING. - REQUIRED: A 21-INCH SQUARE HOLE CENTERED ON STRYKER PRE-INSTALL PLATE IN THE FINISHED CEILING IS REQUIRED FOR INSTALLATION. A 23-INCH SQUARE CEILING COVER CONCEALS HOLE AFTER BOOM IS INSTALLED POWER: - REFER TO S-SERIES MANUFACTURING SERVICE MODULE DRAWING FOR ELECTRICAL CIRCUIT COUNT. - THE CONTRACTOR / ELECTRICIAN TO HARDWIRE STRYKER ELECTRICAL WHIP DURING STRYKER INSTALLATION. - ALL ELECTRICAL CIRCUITS SHALL BE CONNECTED TO S-SERIES JUNCTION BOX OR BOXES. - THE S-SERIES JUNCTION BOX (7.4" x 3.5" x 3.74") ARRIVES ATTACHED TO THE S-SERIES BOOM FLANGE BY A GROUND WIRE. THE JUNCTION BOX MUST BE MOUNTED ADJACENT TO THE MED GAS LINES BY THE CUSTOMER/CONTRACTOR ACCORDING TO NATIONAL AND LOCAL BUILDING CODES. - A SEPARATE TC JUNCTION BOX (SUPPLIED BY STRYKER) MUST BE MOUNTED WITHIN 3-FEET OF BOOM MOUNT.AND ACCESSIBLE FROM THE ACCESS PANEL. THIS IS MOUNTED BY AN ELECTRICIAN AND IS REQUIRED FOR SURGICAL LIGHT POWER. REQUIRED ACCESS PANEL: - ONE (1) 24-INCH X 24-INCH ACCESS PANEL ADJACENT TO BOOM, SO JUNCTION BOXES, TC JUNCTION BOX AND MED GAS LINES CAN BE EASILY ACCESSED. CONDUIT: - REFER TO ROOM LAYOUT FOR CONDUIT SIZE. TERMINATE ALL CONDUITS WITHIN 18-INCHES OF THE CENTER OF THE CEILING MOUNT. PLUMBING: - INSTALL VALVE BRIDGE TO TOP OF PRE-INSTALL PLATE. ALL GAS LINES MUST BE TERMINATED WITH STRYKER SUPPLIED GAS RISERS BY CUSTOMER/MEDGAS INSTALLER. - ALL FINAL DISS CONNECTIONS TO BE MADE BY CUSTOMER/MEDGAS INSTALLER AFTER STRYKER INSTALLATION. (REV A)</div>

PRE-INSTALL NOTES SCHEDULE	
KEY ITEM	NAME
E E1	<div>S-SERIES TC BOOM WITH UDM</div> <div>STRUCTURAL: - STRYKER COMMON PRE-INSTALL PLATE SHALL BE INSTALLED BY CUSTOMER/CONTRACTOR AT 3-INCH, ± .25-INCH ABOVE FINISHED CEILING PER CUSTOMER PROVIDED STRUCTURAL ENGINEER SPECS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THREADED HOLES DURING THE PLATE WELDING/INSTALLATION PROCESS, TO PREVENT SLAG FROM OBSTRUCTING THREADED HOLES. - TO ENSURE ADEQUATE ROOM FOR INSTALLATION OF THE S-SERIES BOOM THE OWNER AND/OR CONTRACTOR MUST ENSURE THAT STRUCTURAL/UTILITY COMPONENTS DO NOT INTERFERE WITH ANY PART OF THE S-SERIES BOOM. THIS “NO-FLY” ZONE EXTENDS 12-INCHES FROM THE MOUNTING PLATE ON ALL SIDES, AND 16-INCHES UP FROM THE FINISHED CEILING. - REQUIRED: A 21-INCH SQUARE HOLE CENTERED ON STRYKER PRE-INSTALL PLATE IN THE FINISHED CEILING IS REQUIRED FOR INSTALLATION. A 23-INCH SQUARE CEILING COVER CONCEALS HOLE AFTER BOOM IS INSTALLED POWER: - REFER TO S-SERIES MANUFACTURING SERVICE MODULE DRAWING FOR ELECTRICAL CIRCUIT COUNT. - THE CONTRACTOR / ELECTRICIAN TO HARDWIRE STRYKER ELECTRICAL WHIP DURING STRYKER INSTALLATION. - ALL ELECTRICAL CIRCUITS SHALL BE CONNECTED TO S-SERIES JUNCTION BOX OR BOXES. - TWO SEPARATE JUNCTION BOXES: A TC JUNCTION BOX AND UDM JUNCTION BOX (BOTH SUPPLIED BY STRYKER AND MEASURE 10-INCH HEIGHT X 8-INCH WIDTH X 4-INCH DEPTH) MUST BE MOUNTED WITHIN 18-INCHES OF BOOM MOUNT AND ACCESSIBLE FROM THE ACCESS PANEL. THESE ARE MOUNTED BY AN ELECTRICIAN AND IS REQUIRED FOR POWER AND CABLING. - IF UDM MONITOR IS POWERED VIA AC POWER. CONTRACTOR TO PROVIDE AN AC CIRCUIT TO THE AC TERMINAL BLOCK IN THE TC JUNCTION BOX. - THE S-SERIES JUNCTION BOX (7.4" x 3.5" x 3.74") ARRIVES ATTACHED TO THE S-SERIES BOOM FLANGE BY A GROUND WIRE. THE JUNCTION BOX MUST BE MOUNTED ADJACENT TO THE MED GAS LINES BY THE CUSTOMER/CONTRACTOR ACCORDING TO NATIONAL AND LOCAL BUILDING CODES. REQUIRED ACCESS PANEL: - ONE (1) 24-INCH X 24-INCH ACCESS PANEL ADJACENT TO BOOM, SO JUNCTION BOX(ES), UDM JB AND MED GAS LINES CAN BE EASILY ACCESSED. CONDUIT: - REFER TO ROOM LAYOUT FOR CONDUIT SIZE. TERMINATE ALL CONDUITS WITHIN 18-INCHES OF THE CENTER OF THE CEILING MOUNT. PLUMBING: - INSTALL VALVE BRIDGE TO TOP OF PRE-INSTALL PLATE. ALL GAS LINES MUST BE TERMINATED WITH STRYKER SUPPLIED GAS RISERS BY CUSTOMER/MEDGAS INSTALLER. - ALL FINAL DISS CONNECTIONS TO BE MADE BY CUSTOMER/MEDGAS INSTALLER AFTER STRYKER INSTALLATION. (REV A)</div>

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PRE-INSTALL NOTES SCHEDULE	
KEY ITEM	NAME
K	<b>CHROMOPHARE SK BOX (RECESSED)</b> ENCLOSURE DIMENSIONS/MOUNTING: - RECESSED MOUNT COLLAR IS REQUIRED FOR INSTALLATION - SINGLE ENCLOSURE RECESSED DIMENSIONS 19.69" X 15.75" x 7.87" (1-2 LIGHTHEADS), WEIGHT = 69 LBS INCLUDING DECORATIVE TRIM - DOUBLE ENLCOSURE RECESSED DIMENSIONS 19.69" x 31.5" X 7.87" (3-4 LIGHTHEADS), WEIGHT = 135 LBS INCLUDING DECORATIVE TRIM - WALL CUTOUT MUST ALLOW AN ADDITIONAL 0.39" ON ALL 4 SIDES TO ACCOMODATE DECORATIVE TRIM FRAME - CONTRACTOR SHOULD MEASURE TARGET WALL BEFORE INSTALLATION TO VERIFY SUFFICIENT DEPTH TO ACCOMODATE ENCLOSURE DIMENSIONS - REQUIRES RECESSED MOUNT COLLAR AND (OPTIONAL) DECORATIVE TRIM PLATE - INTEGRATED LIGHT CONTROL (OPTIONAL) MUST BE INDICATED AT TIME OF ORDER. ADD 2 LBS  CONDUIT: - MAXIMUM LENGTH OF 45 FEET (15M) OF CONDUIT RUN TO BOTH THE MOUNTING PLATE AND THE TO WALL CONTROL BOX - TWO (2) 1" FROM SK ENCLOSURE TO EACH LIGHT MOUNTING LOCATION, - ONE (1) 1" BETWEEN LIGHT MOUNTING LOCATIONS, - ONE (1) 1" FOR MAINS 120VAC TO SK ENCLOSURE (UP TO TWO(2)) LIGHTS PER CIRCUIT).  POWER: - MAINS AC POWER SHOULD BE 120 VAC, 50/60 HZ CONNECTED WITH 3 WIRE, 12 AWG MIN., 600 V TERMINATED TO FUSED TERMINAL BLOCK INSIDE THE SK ENCLOSURE - DC WIRING FROM SK ENCLOSURE TO MOUNTING PLATE SHOULD BE 12 AWG, 600 VOLT, 1 WIRE PAIR PER LIGHT HEAD AND 1 GROUND WIRE PER MOUNTING PLATE. WIRES TERMINAT AT NON-FUSED TERMINAL BLOCK INSIDE THE SK ENCLOSURE AND FALL A MINIMUM OF 18 INCHES BELOW THE CEILING AT THE MOUNTING PLATE - CONTRACTOR IS RESPONSIBLE FOR RUNNING POWER FROM AN AC MAINS SUPPLY TO THE SK BOX - CONTRACTOR IS RESPONSIBLE FOR RUNNING DC WIRING FROM THE SK ENCLOSURE TO THE SURGICAL LIGHT MOUNTING PLATE - CONTRACTOR IS RESPONSIBLE FOR MAKING BOTH AC AND DC CONNECTIONS IN THE SK ENCLOSURE"
K7	<b>TC LIGHT JUNCTION BOX</b> IS TO BE MOUNTED WITHIN 3FT OF BOOM MOUNT AND ACCESSABLE FROM THE ACCESS PANEL. - UPON EQUIPMENT INSTALTION AN ELECTRONICS MODULE WILL BE INSTALLED BY STRYKER INSTALLATION TEAM AND THE LOW VOLTAGE CAN BE TERMINATED TO THE MODULE PLATE BY THE ELECTRICIAN. (REV A)
L	<b>CHROMOPHARE WALL CONTROL PLATE (RECESSED)</b> CONDUIT: ONE (1) 1" CONDUIT WITH FINISH GROMMETS TO SK ENCLOSURE OR ON TUBE ELECTRONICS. BACK BOX: NONE. WALL CONTROL RECEIVES CONDUIT. POWER: NONE

PRE-INSTALL NOTES SCHEDULE	
KEY ITEM	NAME
M1-M4	<b>FLUSH MOUNTED CIRCULAR CEILING SPEAKERS</b> CONDUIT: - REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZE STRUCTURAL: - CUSTOMER/CONTRACTOR TO CUT ONE 10 ¾" DIA. CIRCLE AT SPEAKER MOUNTING LOCATION. - OUTER DIA. DIMENSION IS 13.4" - PROVIDE 5" MINIMUM CEILING CLEARANCE. (REV A)
P	<b>55" WALL MONITOR</b> CONDUIT: - REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZE BACK BOX: - ONE (1) 4"W X 4"H JUNCTION BOX WITH SINGLE-GANG MUD RING - MOUNTED DIRECTLY ABOVE THE TOP OF THE MOUNTING BRACKET. POWER: - ONE (1) STANDARD DUPLEX OUTLET MOUNTED ADJACENT TO JUNCTION BOX. STRUCTURAL: - CUSTOMER/CONTRACTOR TO MOUNT STRYKER PROVIDED BRACKET TO THE WALL IN THE DESIRED LOCATION WITH PROPER REINFORCEMENT TO SUPPORT THE MONITOR PRIOR TO STRYKER INSTALLATION. DIMENSIONS: 48.8" x 28.1" x 2.7" STRYKER-PROVIDED WALL BRACKET DEPTH: 2.7" NOTE: STRYKER PROJECT MANAGER WILL PROVIDE MOUNTING SPECIFICATIONS.
P1	<b>COR IP TOUCHPANEL (PRIMARY)</b> CONDUIT: - REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZE BACK BOX: - ONE (1) 4"W X 4"H JUNCTION BOX WITH SINGLE-GANG MUD RING - MOUNT J-BOX WITHIN 18" OF TOUCH PANEL LOCATION POWER: - TWO (2) QUAD OUTLETS WITHIN 18" OF TOUCH PANEL LOCATION. (Rev A)
P2	<b>COR IP TOUCHPANEL (SECONDARY)</b> CONDUIT: - REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZE BACK BOX: - ONE (1) 4"W X 4"H JUNCTION BOX WITH SINGLE-GANG MUD RING - MOUNT J-BOX WITHIN 18" OF TOUCH PANEL LOCATION POWER: - ONE (1) QUAD OUTLET WITHIN 18" OF TOUCH PANEL LOCATION. (Rev A)

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PRE-INSTALL NOTES SCHEDULE	
KEY ITEM	NAME
R	<b>WALL MOUNTED HD PTZ CAMERA</b> CONDUIT: REFER TO ROOM LAYOUT FOR CONDUIT QUANTITY AND SIZE BACK BOX: - ONE (1) 4"W X 4"H JUNCTION BOX WITH SINGLE-GANG MUD RING - FLUSH MOUNT J-BOX IN WALL 12" BELOW FINISHED CEILING DATA: - ADD SINGLE DATA PLATE WITHIN 6" OF PTZ MOUNT POWER: NONE STRUCTURAL: - CUSTOMER/CONTRACTOR TO MOUNT STRYKER PROVIDED BRACKET TO THE WALL IN THE DESIRED LOCATION WITH PROPER REINFORCEMENT TO HD PAN/TILT/ZOOM CAMERA PRIOR TO STRYKER INSTALLATION. (REV A)
X	<b>COR IP ADJACENT RACK (CUSTOMER PROVIDED)</b> CONNECTED OR IP SYSTEM (<65' from OR) THE BELOW COUNTS ARE PER OR SPACE REQUIREMENTS: - CUSTOMER-SUPPLIED FOUR POST, 19" RACK, 29" Depth - MUST ACCOMMODATE UP TO 24RU PER ROOM. SPECIFIC RU REQUIREMENT CAN BE CONFIRMED BY STRYKER ENGINEERING. DATA: TWO (2) ETHERNET CONNECTIONS BACKBOX: N/A NOTE: ALL CONDUITS CONSOLIDATED TO THE RACK LOCATION WITHIN THE A/V CLOSET POWER: - TWELVE (12) ELECTRICAL RECEPTACLES - THREE (3) 20A ELECTRICAL CIRCUITS TOTAL. EACH QUAD WILL HAVE ONE (1) 20A CIRCUIT - ALL CIRCUIT REQUIREMENTS SHOULD BE BASED OFF LOCAL BUILDING CODE OR WHAT IS SPECIFIED UNDER THE IBC. - A UPS IS REQUIRED FOR AT LEAST (1) OF THE 20A CIRCUITS - IF POWERSTRIPS ARE NOT ALLOWED, CONSULT YOUR STRYKER PM FOR NUMBER OF OUTLETS. - CONNECT RACK TO BUILDING'S EARTH GROUND USING 8 AWG. (Rev A)

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