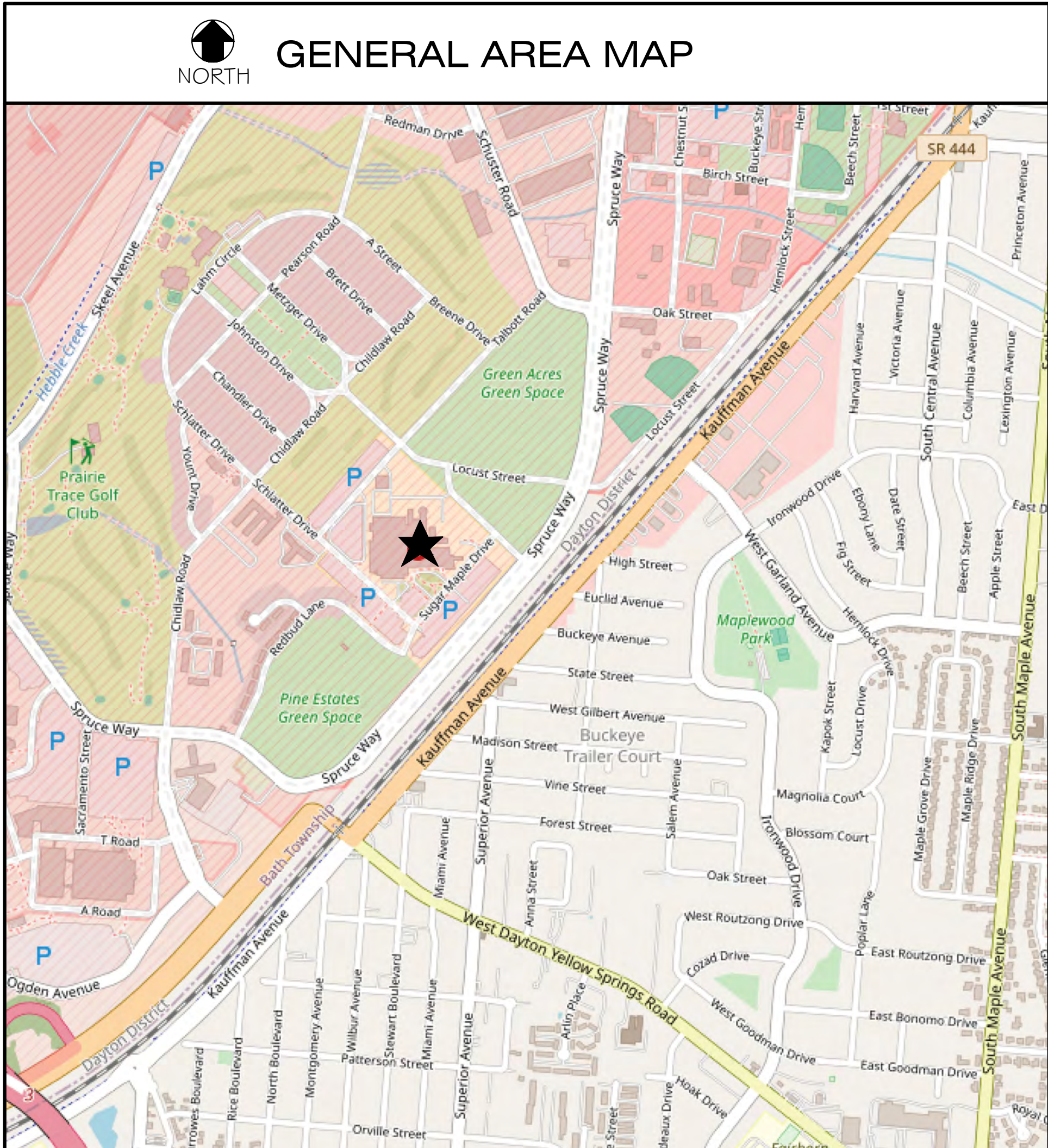
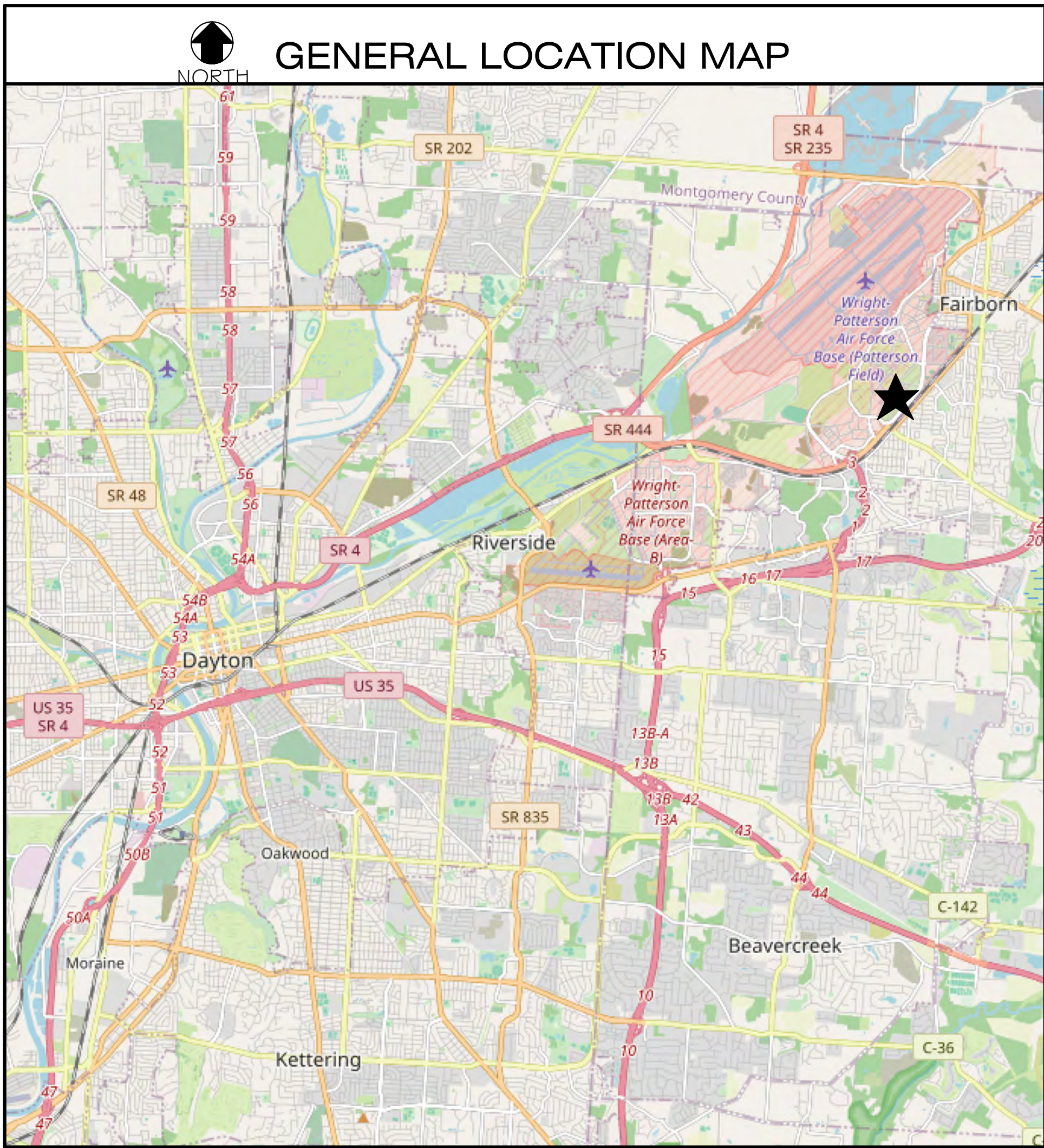




88TH MEDICAL GROUP, WRIGHT-PATTERSON AFB
X-RAY EQUIPMENT REPLACEMENT
ROOMS 1N55 & 1N62 - SAMSUNG GC85A VISION+
WRIGHT-PATTERSON MEDICAL CENTER
4881 SUGAR MAPLE DR.
WRIGHT-PATTERSON AFB, OHIO 45433



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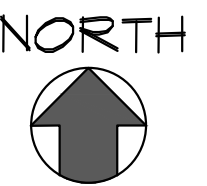
ELECTRICAL
ENGINEERING

INDEX TO DRAWINGS	
SHEET NO.	DESCRIPTION
COVER	KEY PLAN, LOCATION MAP, ABBREVIATIONS, CODES, DESIGN CRITERIA
A-1	ORIENTATION / REFERENCE PLAN
A-2	DUSTPROOF PARTITION, ILSM PLAN, ICRA PLAN
A-3	DEMOLITION PLAN
A-4	EXISTING CEILING PLAN
A-5	CONSTRUCTION PLAN
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A-7	RADIATION PROTECTION PLAN
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ATTACHED TO THESE DOCUMENTS ARE TWO SETS OF DRAWINGS - DRAWING #2501-05-A-F AND #2501-06-A-F BOTH DATED 11-20-25 PROJECT #2511306 AS PREPARED BY SAMSUNG. THESE DRAWINGS PROVIDE DETAILED INFORMATION CONCERNING SITE PREPARATION FOR THEIR X-RAY IMAGING SYSTEMS. USE OF THESE DRAWINGS IS REQUIRED FOR REFERENCE AND FOR ADDITIONAL DETAILED INFORMATION.

ABBREVIATIONS			
AFF. AL.	ABOVE FINISH FLOOR ALUMINUM	MECH. MIN.	MECHANICAL MANUFACTURER
B.O. BD.	BY OTHERS BOARD BUILDING BLOCK	MISC. M.O. MTL.	MISCELLANEOUS MASONRY OPENING METAL
C.G. C.J. C.L.G. CONT.	CORNER GUARD CONTROL JOINT CEILING CONTINUOUS	N.E.C. N.T.S.	NOT APPLICABLE NATIONAL ELECTRIC CODE NOT TO SCALE
DIA. DR. D.S.	DIAMETER DOOR DOWNSPOUT	O.C. O.D. OFNG.	ON CENTER OUTSIDE DIAMETER OPENING
ELEC. ELEV. EQ. EXH. EXT.	ELECTRIC ELEVATION EQUAL REQUIRED EXHAUST EXTERIOR	PL. PLAS. LAM. PLYND.	PLATE PLASTIC LAMINATE PLYWOOD
F.D. F.E. FL.	FLOOR DRAIN FIRE EXTINGUISHER FLOOR ELECTRIC WATER COOLER	REINF. REQ'D. REV. RM. R.O.	REINFORCING REVISION ROOM ROOM OPENING
G.A. G.C. G.L. GYP. BD.	GAUGE GENERAL CONTRACTOR GLASS GYPSUM BOARD	S.F. SPEC. SS. STD. STL. SUSP.	SQUARE FEET SPECIFICATION STAINLESS STEEL STANDARD STEEL SUSPENDED
H.C. HDW. H.M. HORIZ.	HANDICAP HARDWARE HOLLOW METAL HORIZONTAL	TEL. T.O.S. TYP.	TELEPHONE TOP OF STEEL TYPICAL
I.D. INSUL. INT.	INSIDE DIAMETER INSULATION INTERIOR	VERT. V.T. V.W.C.	VERTICAL VINYL TILE VINYL WALL COVERING
MATL.	MATERIAL	W/ W.W.F. WD.	WITH WELDED WIRE FABRIC WOOD
CODES			
UFC-1-200-01 DOD BUILDING CODE			
INTERNATIONAL MECHANICAL CODE (IMC) ARE REFERENCES TO UFC 3-410-01			
INTERNATIONAL PLUMBING CODE (IPC) ARE REFERENCES TO UFC 3-420-01			
INTERNATIONAL FIRE CODE (IFC) ARE REFERENCES TO UFC 3- 600-01			
INTERNATIONAL ENERGY CONSERVATION CODE (IECC) ARE REFERENCES TO UFC 1-200-02			
NFPA 70, NATIONAL ELECTRICAL CODE (NEC) ARE REFERENCES TO UFC 3-501-01			
F&I GUIDELINES FOR DESIGN AND CONSTRUCTION OF OUTPATIENT FACILITIES, 2022 EDITION			
ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS (ABAAS) BARRIER FREE DESIGN GUIDE			
DESIGN CRITERIA			
OCCUPANCY CLASSIFICATION - AMBULATORY HEALTH CARE OCCUPANCY, BUSINESS GROUP B			
CONSTRUCTION TYPE - TYPE II (222) - PROTECTED, AUTOMATIC SPRINKLER SYSTEM, MULTI-STORY			
MAXIMUM TRAVEL DISTANCE TO AN EXIT - 300 FEET			
MAXIMUM DEAD END CORRIDOR LENGTH - 50 FEET			
MINIMUM OCCUPANT LOAD: NO CHANGES			
MEANS OF EGRESS NO CHANGES			
EXIT WIDTH REQUIRED NO CHANGES			
NOTE: NO ADDITIONAL SQUARE FOOTAGE IS BEING ADDED NO ADDITIONAL BEDS ARE BEING ADDED OCCUPANCY CLASSIFICATION IS NOT BEING CHANGED HAZARD RATING IS NOT BEING CHANGED SMOKE AND FIRE ZONES ARE NOT BEING CHANGED OR EFFECTED			
PERMITTING			
WRIGHT-PATTERSON MEDICAL CENTER FACILITY MANAGEMENT BRANCH 4881 SUGAR MAPLE DR. WRIGHT-PATTERSON AFB, OHIO 45433 DAVID A. SCHOCK, CIV USAF DAVID.A.SCHOCK.CIV@HEALTH.MIL			
SCOPE OF WORK			
THE GENERAL SCOPE OF WORK INCLUDES ALL GENERAL TRADES AND ELECTRICAL WORK TO ALTER EXISTING AREAS AT THE WRIGHT-PATTERSON MEDICAL CENTER, WRIGHT-PATTERSON AFB, OHIO FOR A NEW REPLACEMENT SAMSUNG X-RAY IMAGING EQUIPMENT. THERE ARE NO CHANGES TO USE, OCCUPANCY CLASSIFICATION, BUILDING AREA, FIRE OR SMOKE COMPARTMENTS, OR MEANS OF EGRESS.			

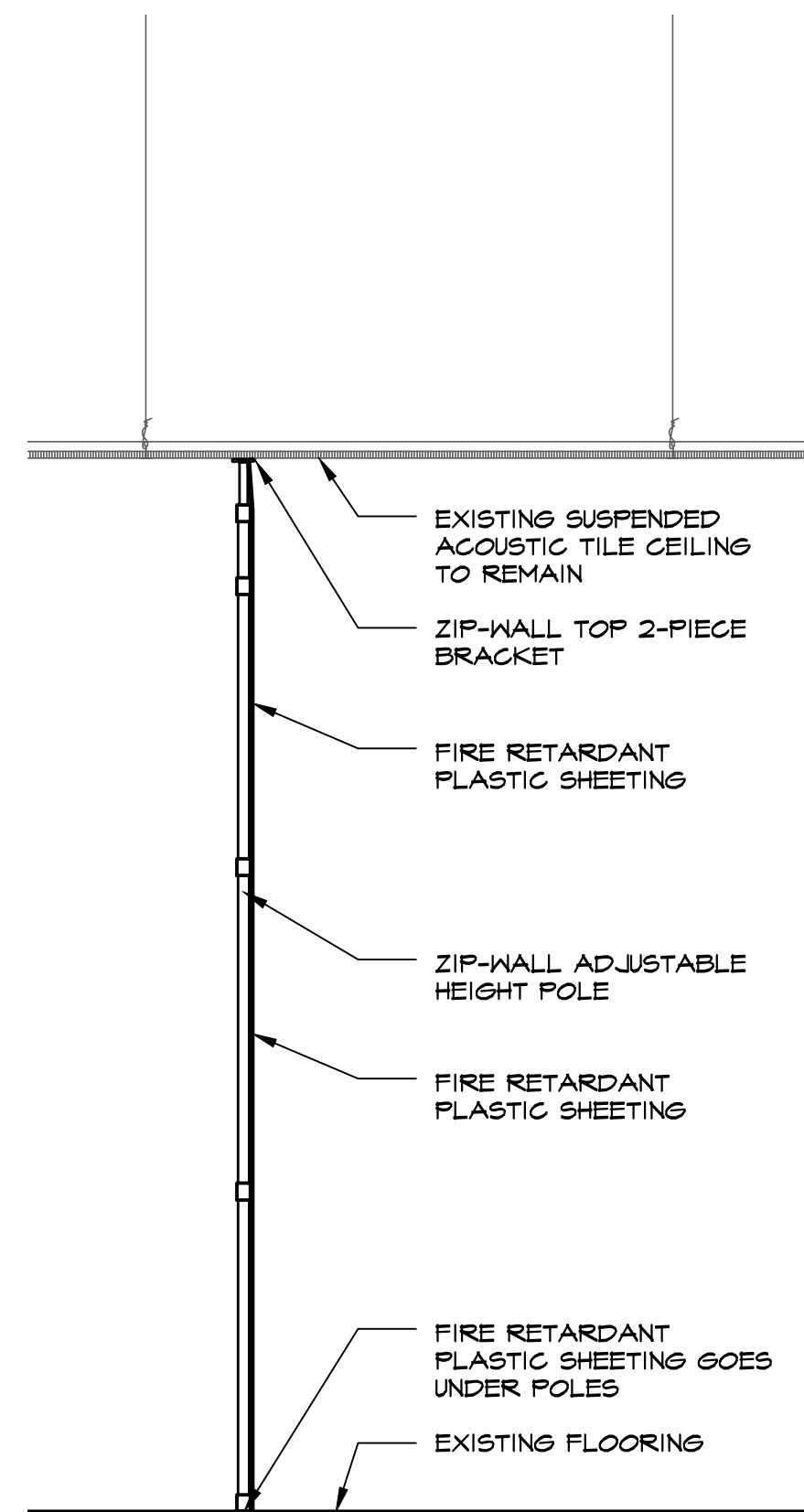
DONALD H. BERG, ARCHITECT 3904 TURKEY OAK DRIVE VALRICO, FLORIDA 33596 TEL: 813-681-7588 FL LICENSE NO. AR-0019524	
88TH MEDICAL GROUP, WRIGHT-PATTERSON AFB X-RAY EQUIPMENT REPLACEMENT ROOMS 1N55 & 1N62 - SAMSUNG GC85A VISION + WRIGHT-PATTERSON MEDICAL CENTER 4881 SUGAR MAPLE DR. WRIGHT-PATTERSON AFB, OHIO 45433	
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REVIEW 03/19/26	
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SHEET TITLE	
COVER	
DATE MARCH 19, 2026	
PROJECT NO. 1025-01	
SHEET NO.	
COVER	



SCALE
N/A

A-1

ET NO.



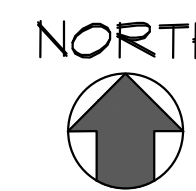
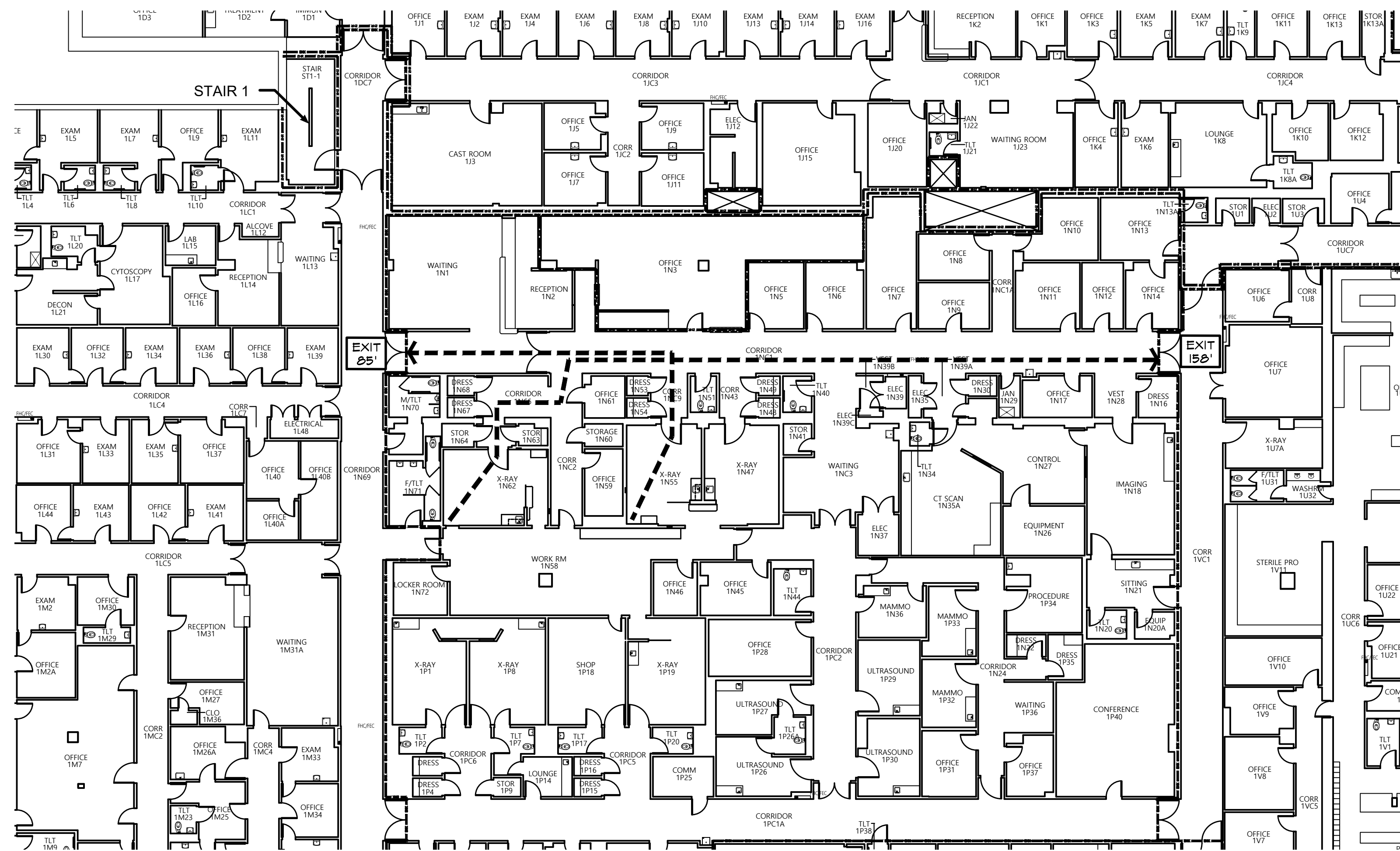
ZIP-WALL DUST PARTITION

SCALE
3/4" = 1'-0"

1

SITE ACCESS PATH DURING CONSTRUCTION:

1. EMERGENCY EGRESS FOR CONSTRUCTION CREW - EXISTING EMERGENCY EGRESS EXITS FOR STAFF / PATIENTS ARE NOT AFFECTED.



ILSM PLAN

SCALE
1/16" = 1'-0"

2

INSTRUCTIONS - INFECTION CONTROL RISK ASSESSMENT

BASED UPON THE TYPE OF CONSTRUCTION ACTIVITY AND THE PATIENT RISK GROUP, THE REQUIRED INFECTION CONTROL PRECAUTIONS WILL BE TYPE B, CLASS III. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL VERIFY WITH HOSPITAL SAFETY PERSONNEL THAT THEY AGREE WITH THIS ASSESSMENT.

CLASS III REQUIREMENTS DURING CONSTRUCTION ARE:

1. PROVIDE ACTIVE MEANS TO PREVENT AIRBORNE DUST DISPERSION INTO THE OCCUPIED AREAS.
2. MEANS FOR CONTROLLING MINIMAL DUST DISPERSION MAY INCLUDE HAND-HELD HEPA VACUUM DEVICES, POLYETHYLENE PLASTIC CONTAINMENT, OR ISOLATION OF WORK AREA BY CLOSING ROOM DOOR.
3. REMOVE OR ISOLATE RETURN AIR DIFFUSERS TO AVOID DUST FROM ENTERING THE HVAC SYSTEM.
4. REMOVE OR ISOLATE THE SUPPLY AIR DIFFUSERS TO AVOID POSITIVE PRESSURIZATION OF THE SPACE.
5. IF WORK AREA IS CONTAINED, THEN IT MUST BE NEUTRALLY TO NEGATIVELY PRESSURIZED AT ALL TIMES.
6. SEAL ALL DOORS WITH TAPE THAT WILL NOT LEAVE RESIDUE.
7. CONTAIN ALL TRASH AND DEBRIS IN THE WORK AREA.
8. NONPOROUS/SMOOTH AND CLEANABLE CONTAINERS (WITH A HARD LID) MUST BE USED TO TRANSPORT TRASH AND DEBRIS FROM THE CONSTRUCTION AREAS. THESE CONTAINERS MUST BE DAMP-WIPED CLEANED AND FREE OF VISIBLE DUST/DEBRIS BEFORE LEAVING THE CONTAINED WORK AREA.
9. INSTALL AN ADHESIVE (DUST COLLECTION) MAT AT ENTRANCE OF CONTAINED WORK AREA BASED ON FACILITY POLICY. ADHESIVE MATS MUST BE CHANGED ROUTINELY AND WHEN VISIBLY SOILED.
10. MAINTAIN CLEAN SURROUNDINGS WHEN AREA IS NOT CONTAINED BY DAMP MOPPING OR HEPA VACUUMING SURFACES.

CLASS III REQUIREMENTS UPON COMPLETION OF PROJECT ARE:

CLEANING:

1. CLEAN WORK AREAS INCLUDING ALL ENVIRONMENTAL SURFACES, HIGH HORIZONTAL SURFACES AND FLOORING MATERIALS.
2. CHECK ALL SUPPLY AND RETURN AIR REGISTERS FOR DUST ACCUMULATION ON UPPER SURFACES AS WELL AS AIR DIFFUSER SURFACES.

HVAC SYSTEMS:

1. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED. VERIFY THAT HVAC SYSTEMS ARE CLEAN AND OPERATIONAL.
2. VERIFY THE HVAC SYSTEMS MEET ORIGINAL AIRFLOW AND AIR EXCHANGE DESIGN SPECIFICATIONS.

NOTE: ALTHOUGH DUSTPROOF PARTITIONS ARE SHOWN ON THESE DRAWINGS, IT IS THE ARCHITECT'S INTENTION THAT ISSUES RELATING TO DEMOLITION NOISE, CONSTRUCTION DISRUPTIONS TO THE CLINIC, HOURS OF WORK FOR SPECIFIC TASKS, ETC. BE DISCUSSED AND RESOLVED DURING THE PRE-CONSTRUCTION MEETING.

SEQUENCE FOR ILSM / ICRA PLAN:

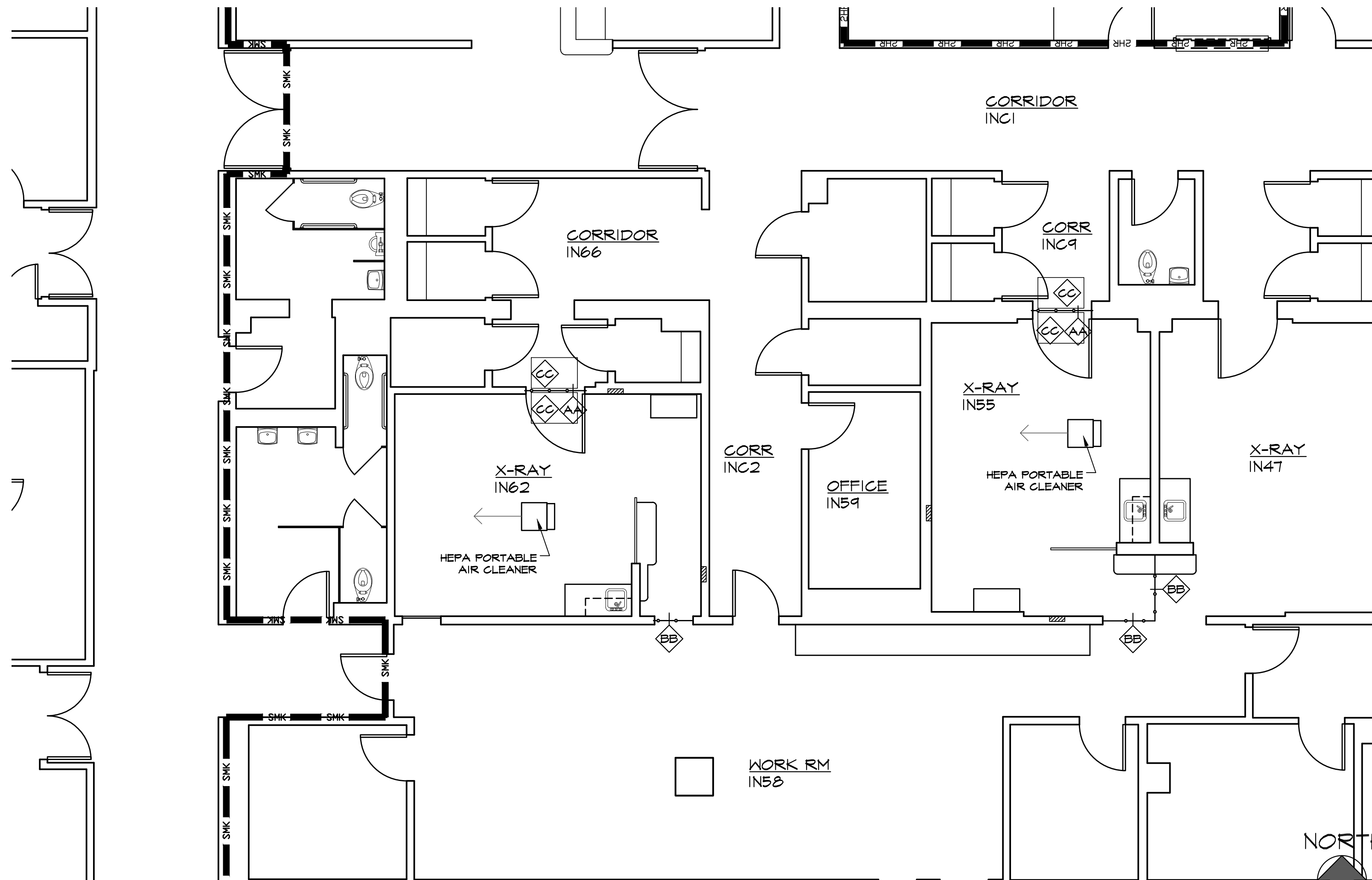
1. INSTALL DUSTPROOF BARRIER IN AREAS WHERE SHOWN.
2. INSTALL WALK-OFF MATS AND HEPA AIR MACHINES VENTED INTO A RETURN AIR DUCT. CORRIDOR FLOORS WILL BE MOPPED CLEAN DAILY TO REMOVE ANY DUST GENERATED BY THE WORK. NOTE - WALK-OFF MATS AND HEPA AIR MACHINES WILL BE INSPECTED AND MAINTAINED BY THE FIELD SUPERVISOR ON A DAILY BASIS.
3. POST ALL SIGNAGE AND POSTERS IN A CLEAR VISIBLE AREA (I.E. DANGER DO NOT ENTER - CONSTRUCTION, EMERGENCY CALL NUMBERS, OSHA POSTERS, ETC.).
4. ITEMS 1 - 3 WILL BE INSPECTED AND ACCEPTED BY THE CLINIC SAFETY AND INFECTION CONTROL STAFF PRIOR TO DEMOLITION. DEMOLITION AND CONSTRUCTION CAN COMMENCE ONCE THE ABOVE ITEMS ARE COMPLETE AND ACCEPTED BY THE CLINIC. ITEMS 1 - 3 WILL BE INSPECTED ON A DAILY BASIS BY THE FIELD SUPERVISOR.

DUST CONTROL NOTES:

1. FILTRATION MACHINE SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE AND MEET THE FOLLOWING:
 - PORTABLE FILTRATION AIR MACHINE WITH PRIMARY FILTER, SECONDARY FILTER AND HEPA FILTER; 2-SPEED AND 12"Ø INTAKE COLLAR.
 - FILTER AND RECIRCULATE AIR 6 TIMES PER HOUR.
 - COVER NEGATIVE AIR MACHINE INLET WITH CARBON FILTER.
 - FILTRATION AIR WILL BE RECIRCULATED WITHIN ROOM.
2. CLOSE OPEN DUCTS WITH 6-MIL POLYETHYLENE AND SEAL WITH DUCT TAPE (NOT SHOWN).

DUST PARTITION NOTES:

- AA - ZIP-WALL DUSTPROOF PARTITION INSIDE OF EXISTING DOOR FRAME W/ ZIP-LOCK DOOR - SEE 1A-2 ABOVE.
- BB - ZIP-WALL DUSTPROOF PARTITION - SEE 1A-2 ABOVE.
- CC - WALK-OFF STICKY MATS (24" x 36") ON BOTH SIDES OF DOOR.



ICRA PLAN

SCALE
3/16" = 1'-0"

3

88TH MEDICAL GROUP, WRIGHT-PATTERSON AFB
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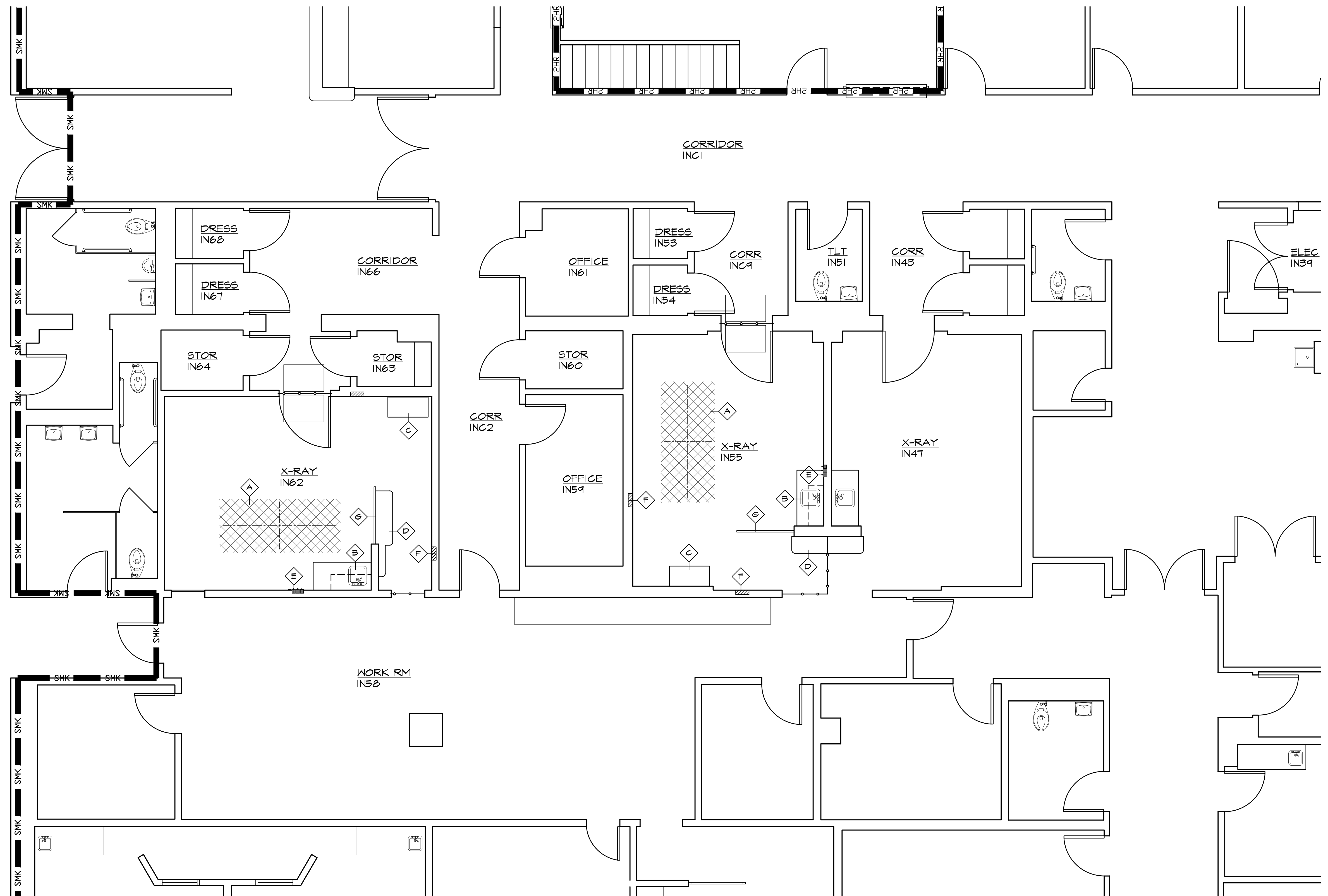
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☐ BIDDING	
☐ PERMIT	
☐ CONSTRUCTION	
SHEET TITLE	
ILSM and ICRA PLANS	
DATE	MARCH 19, 2026
PROJECT NO.	1025-01
SHEET NO.	

A-2

DONALD H. BERG, ARCHITECT
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VALRICO, FLORIDA 33596
TEL: 813-681-7588

FL LICENSE NO. AR-0019524



 DEMOLITION PLAN NOTES:

A. REMOVE 4' x 9' SECTION OF VGT FLOORING - REMOVE WHOLE TILES ONLY.

B. EXISTING BASE CABINET WITH SINK AND WALL CABINET.

C. EXISTING FREE STANDING FULL HEIGHT STORAGE CABINET.

D. EXISTING COUNTERTOP.

E. EXISTING MEDICAL GASES.

F. EXISTING ELECTRICAL PANEL.

G. EXISTING LEAD-LINED MODULAR CONTROL BOOTH PARTITION.

FL LICENSE NO. AR-0015529

88TH MEDICAL GROUP, WRIGHT-PATTERSON AFB
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DEMOLITION
FLOOR PLAN

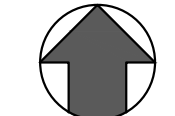
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SHEET NO.

A-3

1



CEILING LEGEND

EXISTING UNISTRUT RAILS

EXISTING DOWNLIGHTS

EXISTING LIGHTS

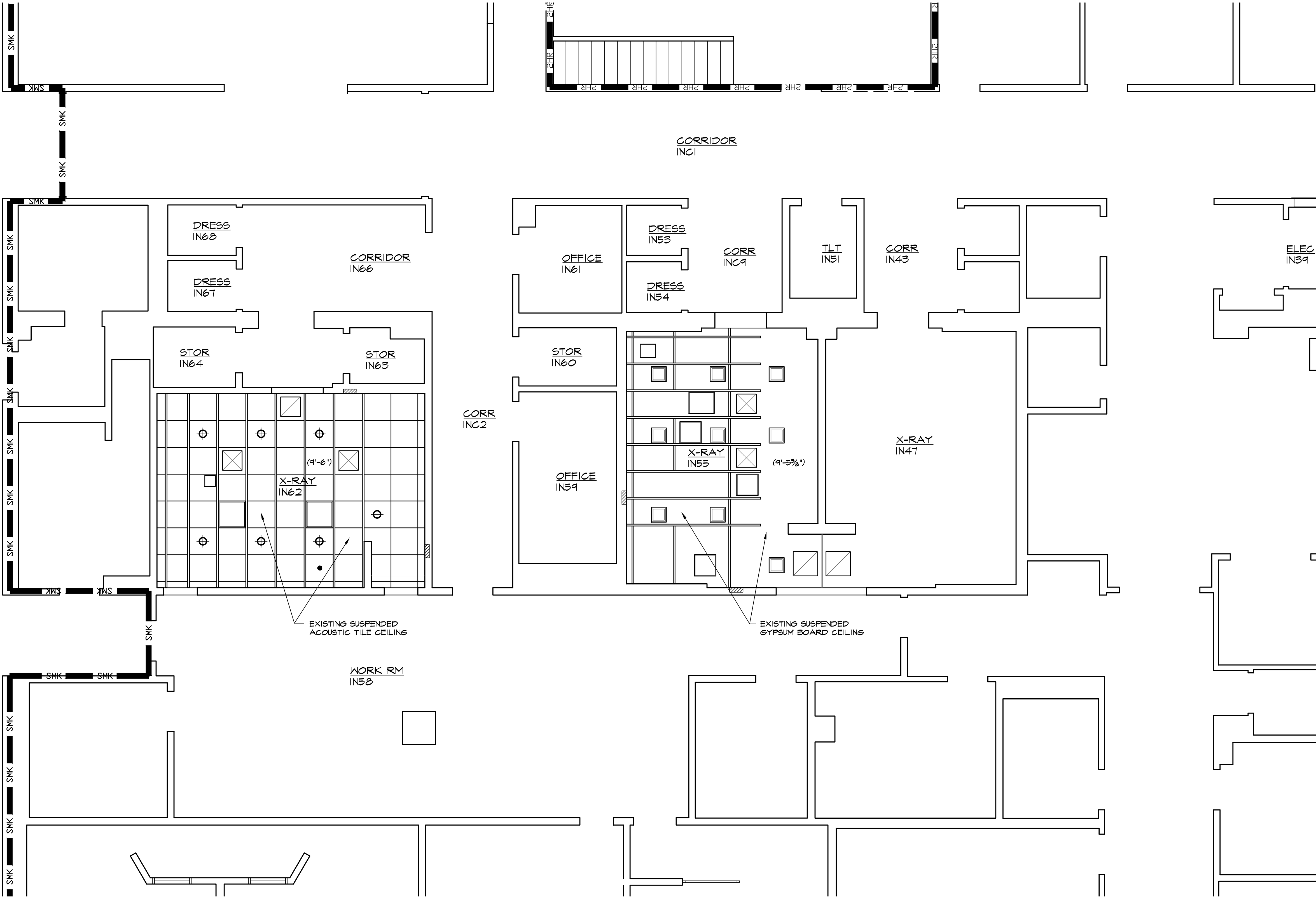
EXISTING LIGHTS

EXISTING ACCESS PANEL

EXISTING HVAC SUPPLY DIFFUSER

EXISTING HVAC RETURN DIFFUSER

EXISTING SPRINKLER HEAD TO REMAIN



CEILING LEGEND

EXISTING UNISTRUT RAILS

EXISTING DOWNLIGHTS

EXISTING LIGHTS

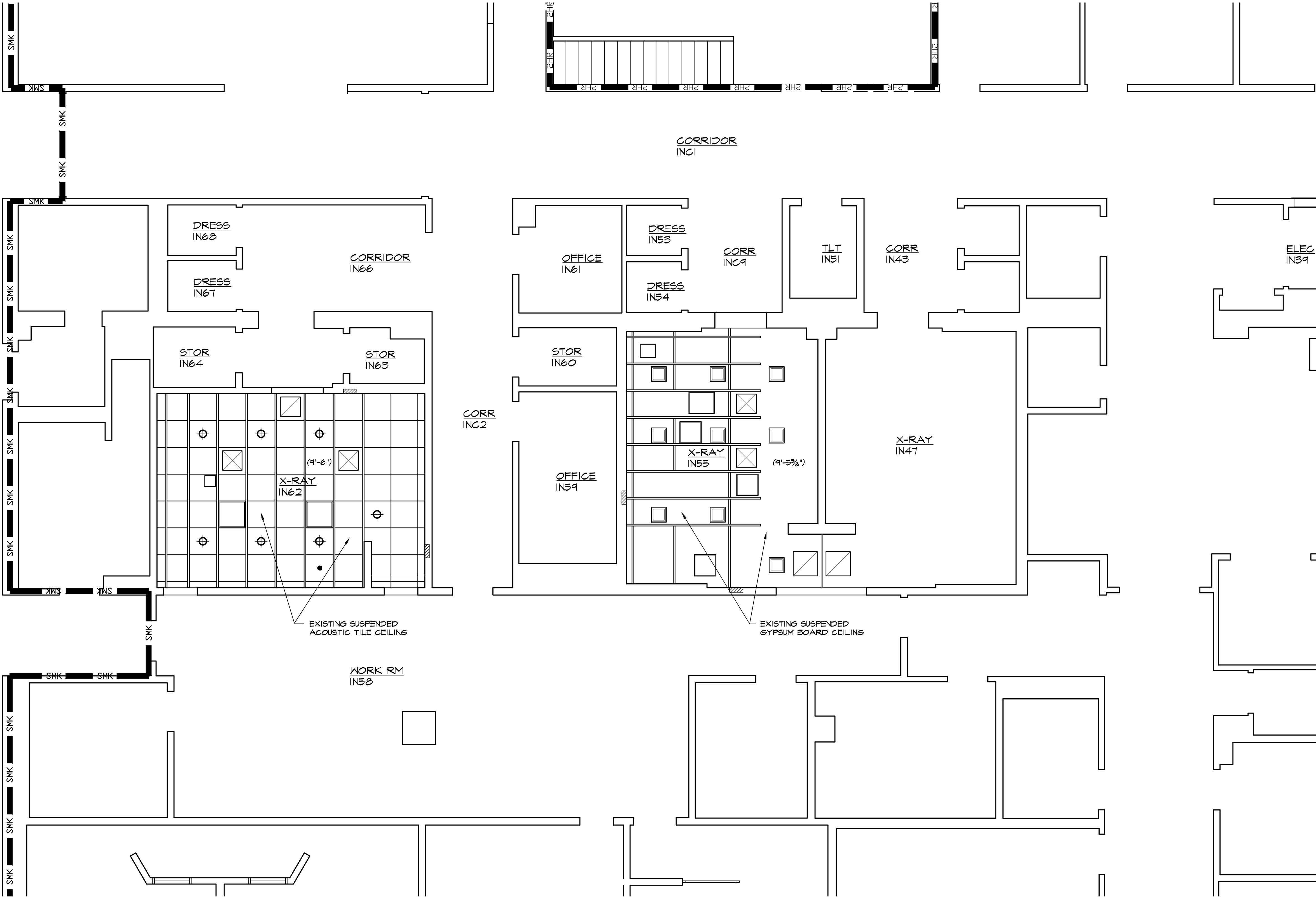
EXISTING LIGHTS

EXISTING ACCESS PANEL

EXISTING HVAC SUPPLY DIFFUSER

EXISTING HVAC RETURN DIFFUSER

EXISTING SPRINKLER HEAD TO REMAIN



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☐ CONSTRUCTION

DATE:
03/19/26

SHEET TITLE

EXISTING
CEILING
PLAN

DATE
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PROJECT NO.
1025-01

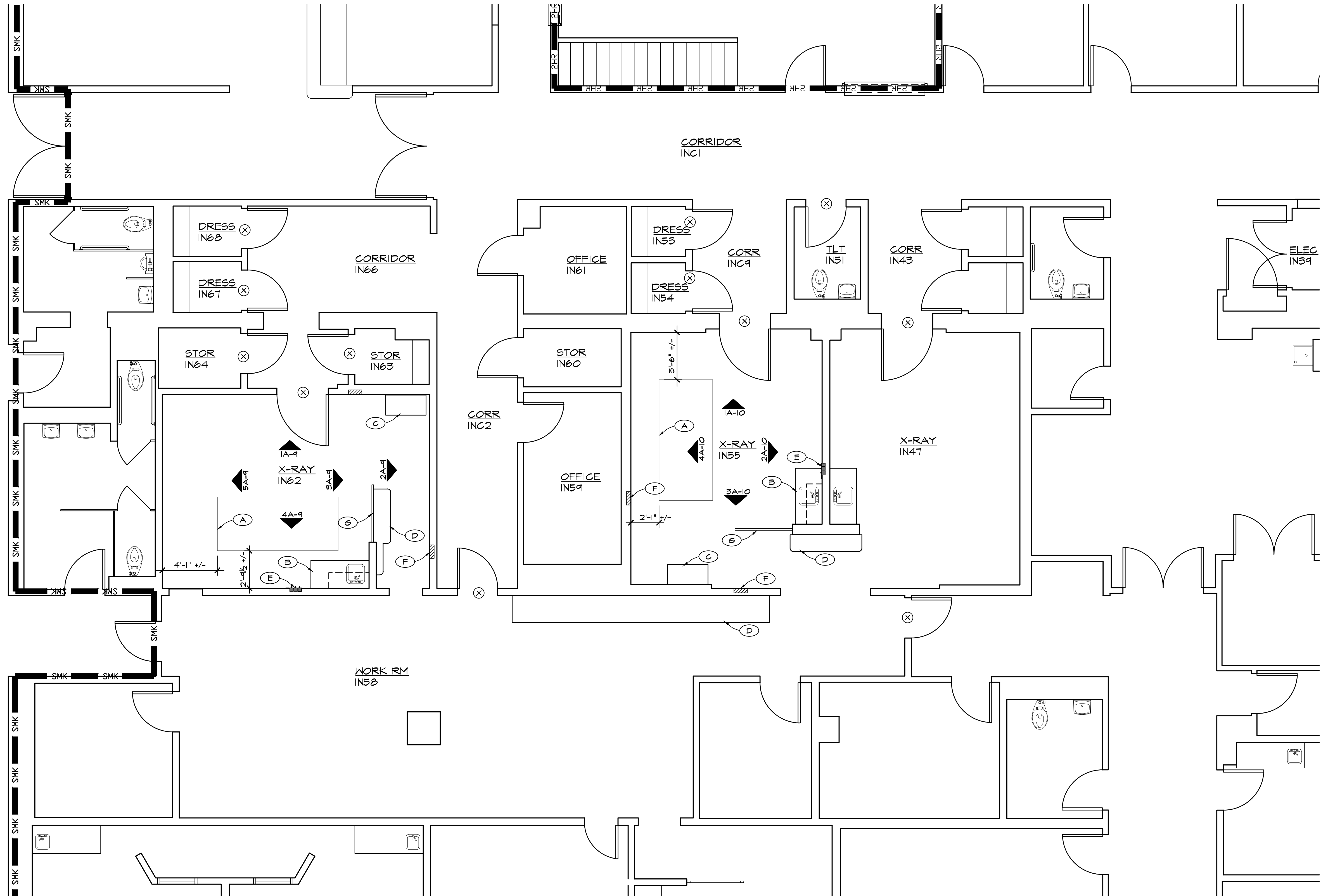
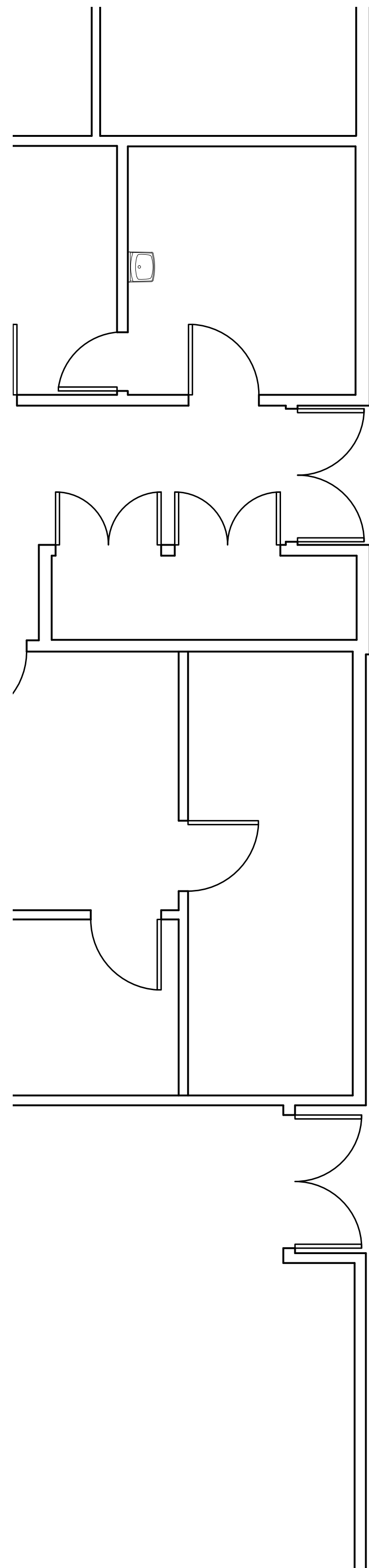
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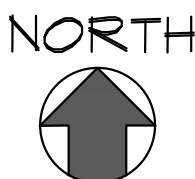
EXISTING CEILING PLAN

SCALE
1/4" = 1'-0"

1



- CONSTRUCTION PLAN NOTES:**
- A. INSTALL NEW 4' X 9' SECTION OF VCT FLOORING.
 - B. EXISTING BASE CABINET WITH SINK AND WALL CABINET.
 - C. EXISTING FREE STANDING FULL HEIGHT STORAGE CABINET.
 - D. EXISTING COUNTERTOP.
 - E. EXISTING MEDICAL GASES.
 - F. EXISTING ELECTRICAL PANEL.
 - G. EXISTING LEAD-LINED MODULAR CONTROL BOOTH PARTITION.
- ⊗ = EXISTING DOOR & FRAME TO REMAIN AS IS.



CONSTRUCTION PLAN

SCALE
1/4" = 1'-0"

1

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SHEET TITLE

CONSTRUCTION
PLAN

DATE
MARCH 19, 2026

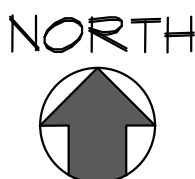
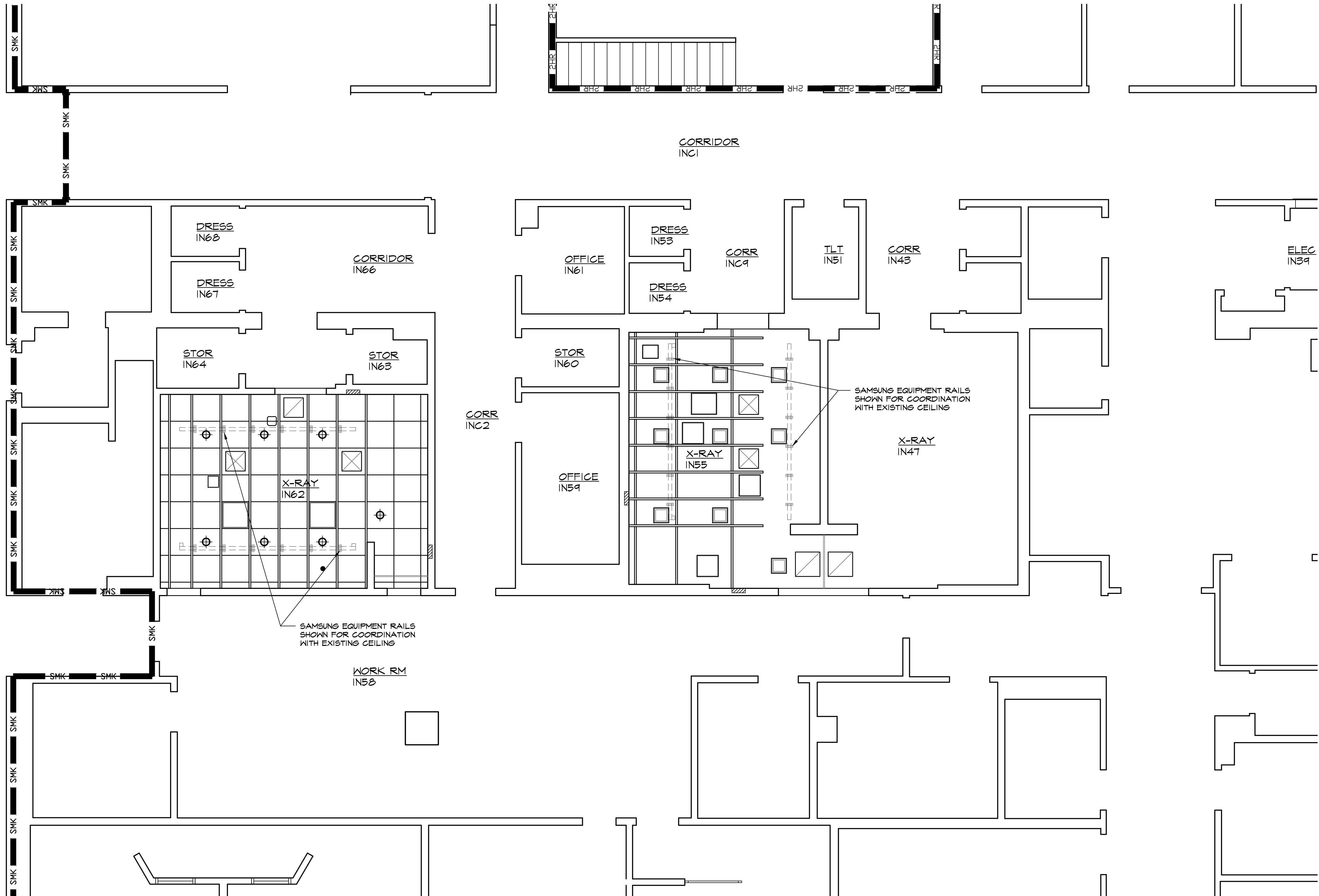
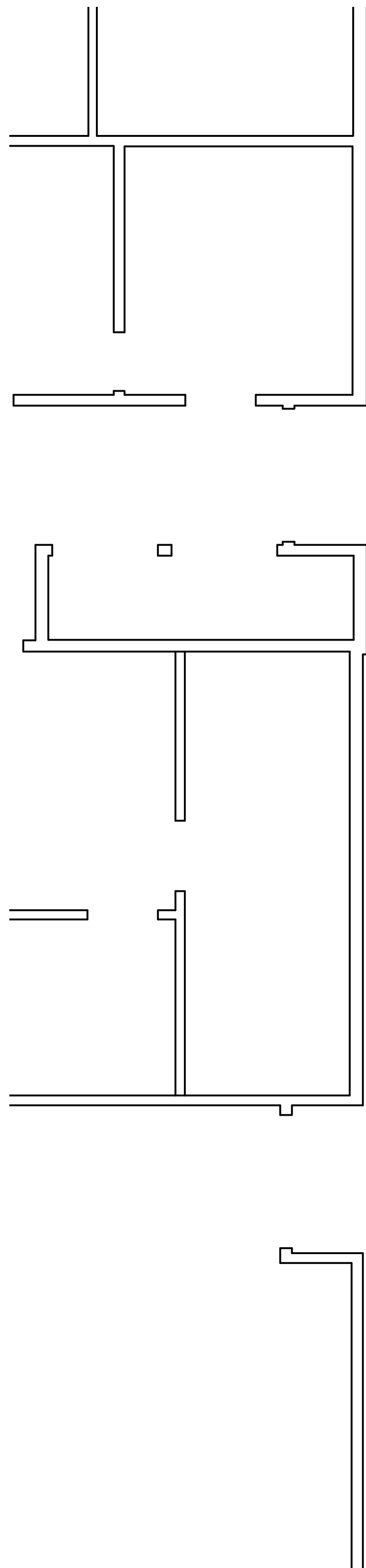
PROJECT NO.
1025-01

SHEET NO.

A-5

DONALD H. BERG, ARCHITECT
3904 TURKEY OAK DRIVE
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FL LICENSE NO. AR-0019524



REFLECTED CEILING PLAN

SCALE
1/4" = 1'-0"

1

88TH MEDICAL GROUP, WRIGHT-PATTERSON AFB
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SHEET TITLE
REFLECTED
CEILING PLAN

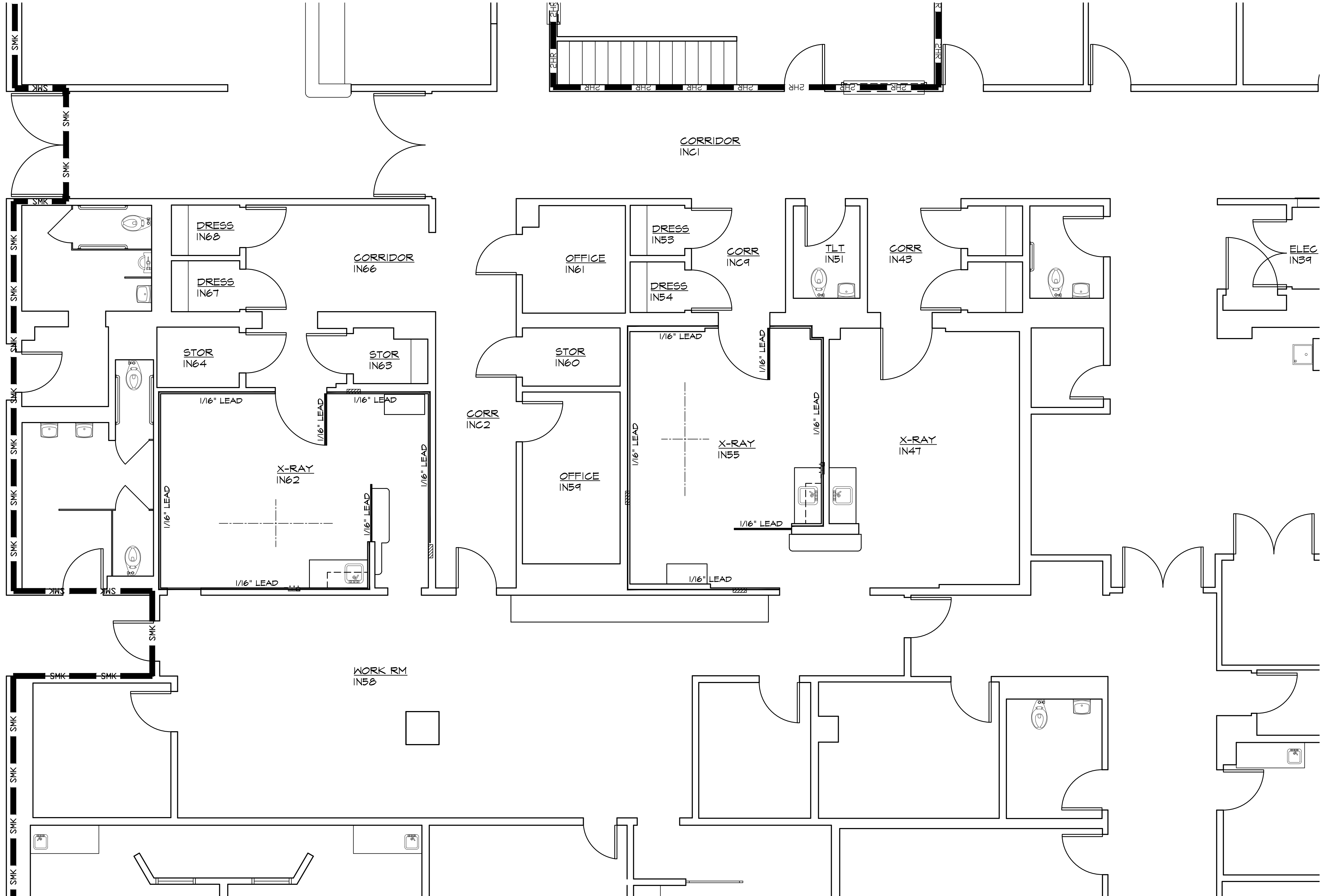
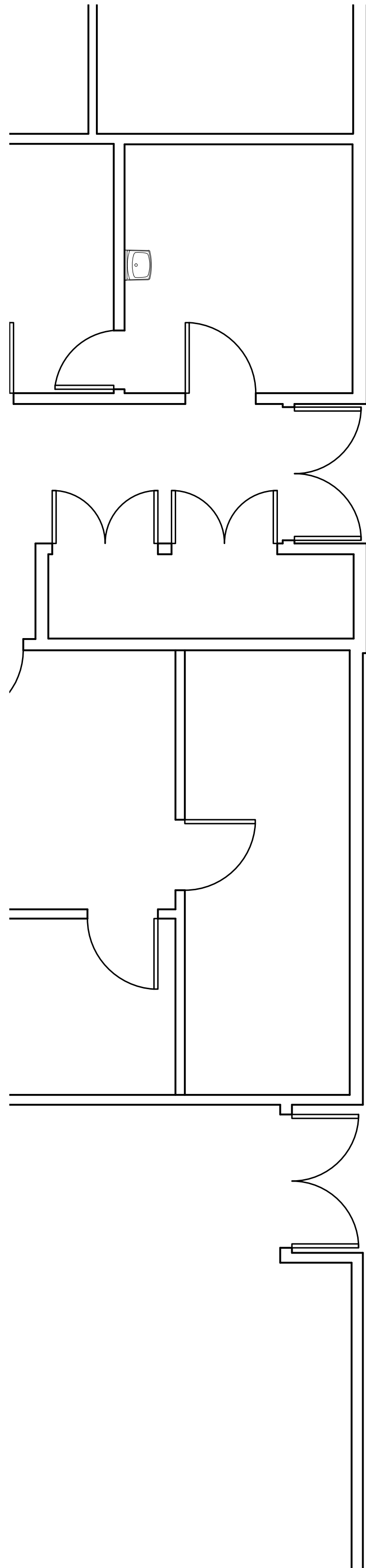
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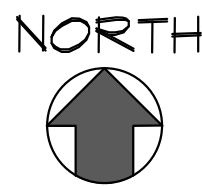
A-6

DONALD H. BERG, ARCHITECT
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IN GENERAL, THE EXISTING LEAD SHIELDING SHOWN BELOW MUST BE AT LEAST 1/16" TO A HEIGHT OF 1" FROM WITHIN 1" ABOVE THE FINISHED FLOOR. REQUIRES AT LEAST 1" OVERLAP OF AT SEAMS. ALL WALL PENETRATIONS MUST BE BACK SHIELDED WITH LEAD, AGAIN OVERLAPPING TO ENSURE PROTECTION. LEAD MUST BE HUNG SO AS TO NOT TO FALL OR SAG. VERIFY DOORS ARE 1/16" LEAD. LEAD GLASS WINDOW MUST BE 1/16" LEAD EQUIVALENT, RATED AT 135KVp.

NOTE:
THE HOSPITAL (AFB) IS RESPONSIBLE FOR THE PRE-CONSTRUCTION RADIATION PROTECTION SURVEY PLUS THE PHYSICIST'S REPORT.



RADIATION PROTECTION PLAN

SCALE
1/4" = 1'-0"

1

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REVISIONS	

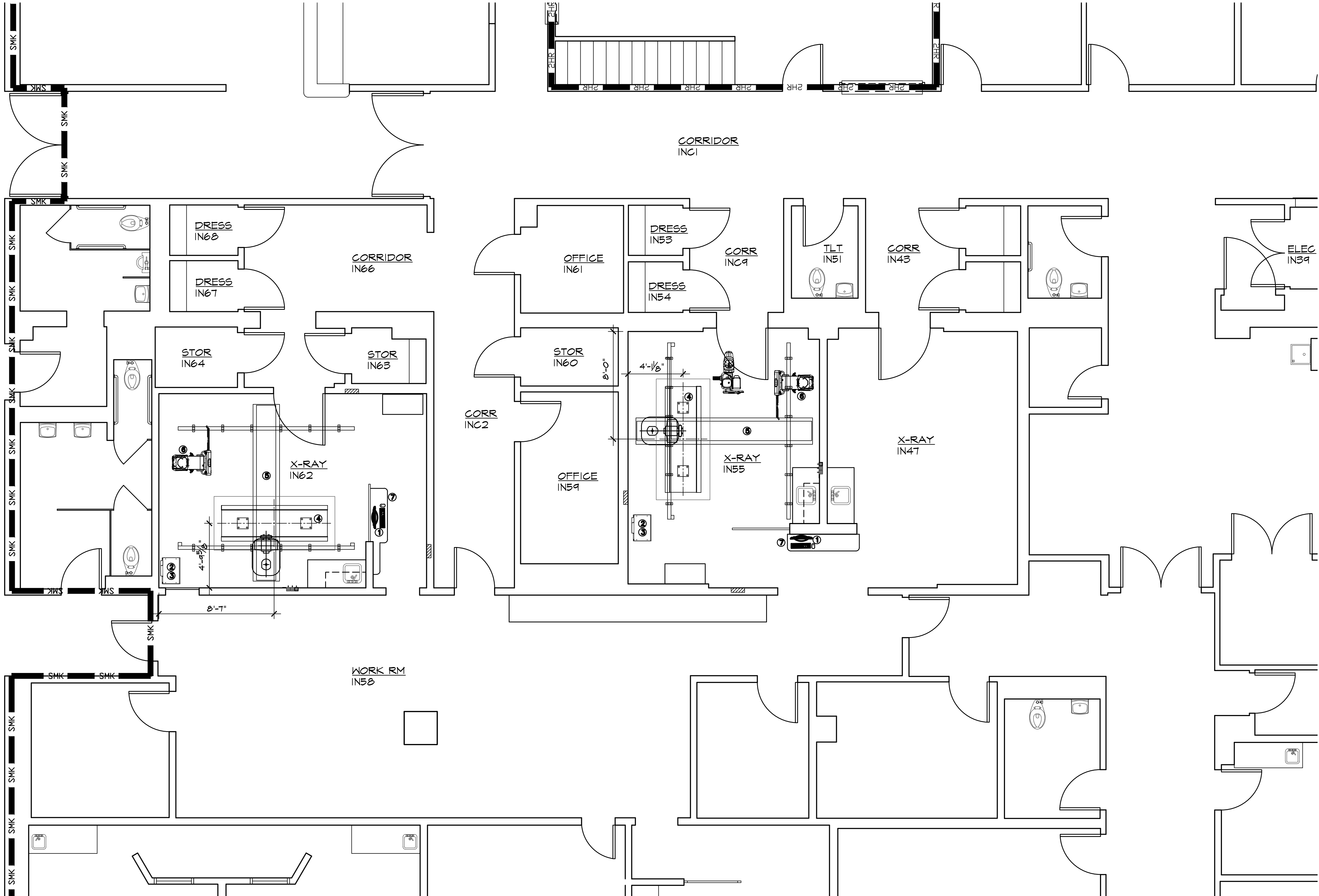
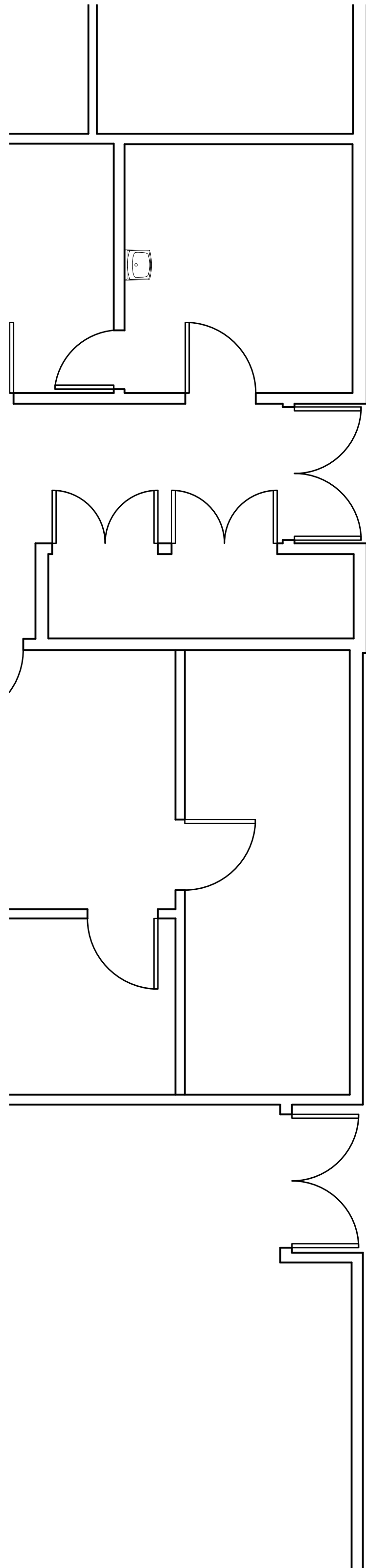
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☐ CONSTRUCTION	

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RADIATION PROTECTION PLAN	
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PROJECT NO.	1025-01

SHEET NO.

A-7

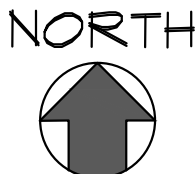
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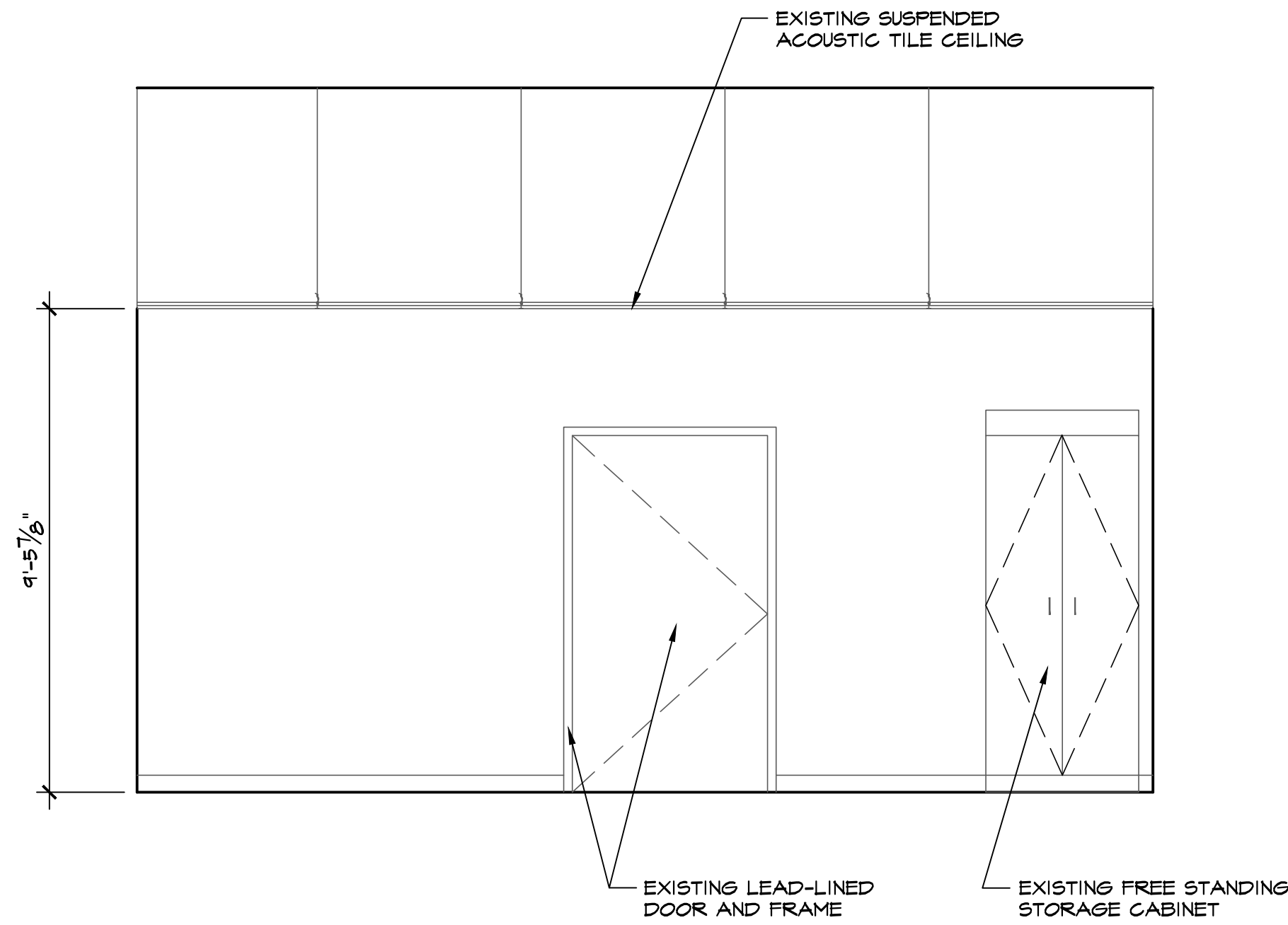


EQUIPMENT LEGEND - IN62				
INSTALLED BY CUSTOMER/CONTRACTOR				
FURNISHED BY CUSTOMER/CONTRACTOR				
INSTALLED BY BOSTON IMAGING				
FURNISHED BY BOSTON IMAGING				
ITEM	DESCRIPTION DIM: W X D X H	WT. (LBS)	BTU'S /HR	
①	Samsung GC85A DR Workstation	N/A	300.3	••
②	Samsung GC85A System Cabinet DIM: 23.23" x 16.93" x 17.00"			••
③	Spellman ZR75P - 80kw Generator Cabinet DIM: 23.46" x 16.14" x 18.90"	264	549.4	••
④	Samsung GC85A Elev. 4-Way Float Top Table DIM: 96" x 32" x 36"	462	235.4	••
⑤	Samsung GC85A OTC DIM: 4M(L) x 4M(T) (157.48" x 157.48" x Var")	798-928	392.4	••
⑥	Samsung GC85A Premium Tilting Wall Stand Right or Left Load to be specified on sales quote DIM: 25" x 32" x 87"	396	196.2	••
⑦	Countertop with PC shelf below - to be designed and installed by customer/contractor			••

PLEASE NOTE -
BOTH ROOMS HAVE THE
SAME EQUIPMENT

EQUIPMENT LEGEND - IN55				
INSTALLED BY CUSTOMER/CONTRACTOR				
FURNISHED BY CUSTOMER/CONTRACTOR				
INSTALLED BY BOSTON IMAGING				
FURNISHED BY BOSTON IMAGING				
ITEM	DESCRIPTION DIM: W X D X H	WT. (LBS)	BTU'S /HR	
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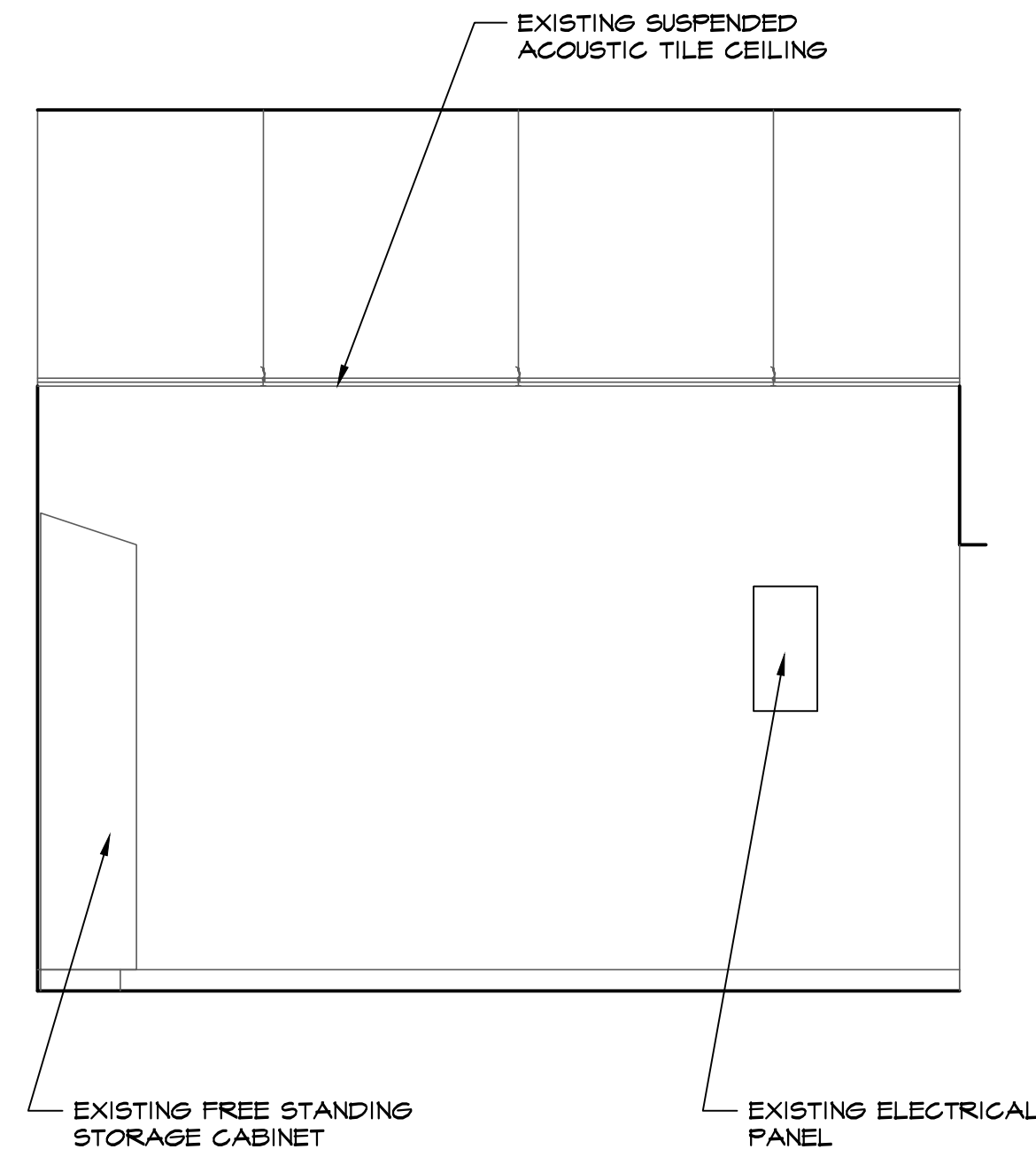




INTERIOR ELEVATION

SCALE
3/8" = 1'-0"

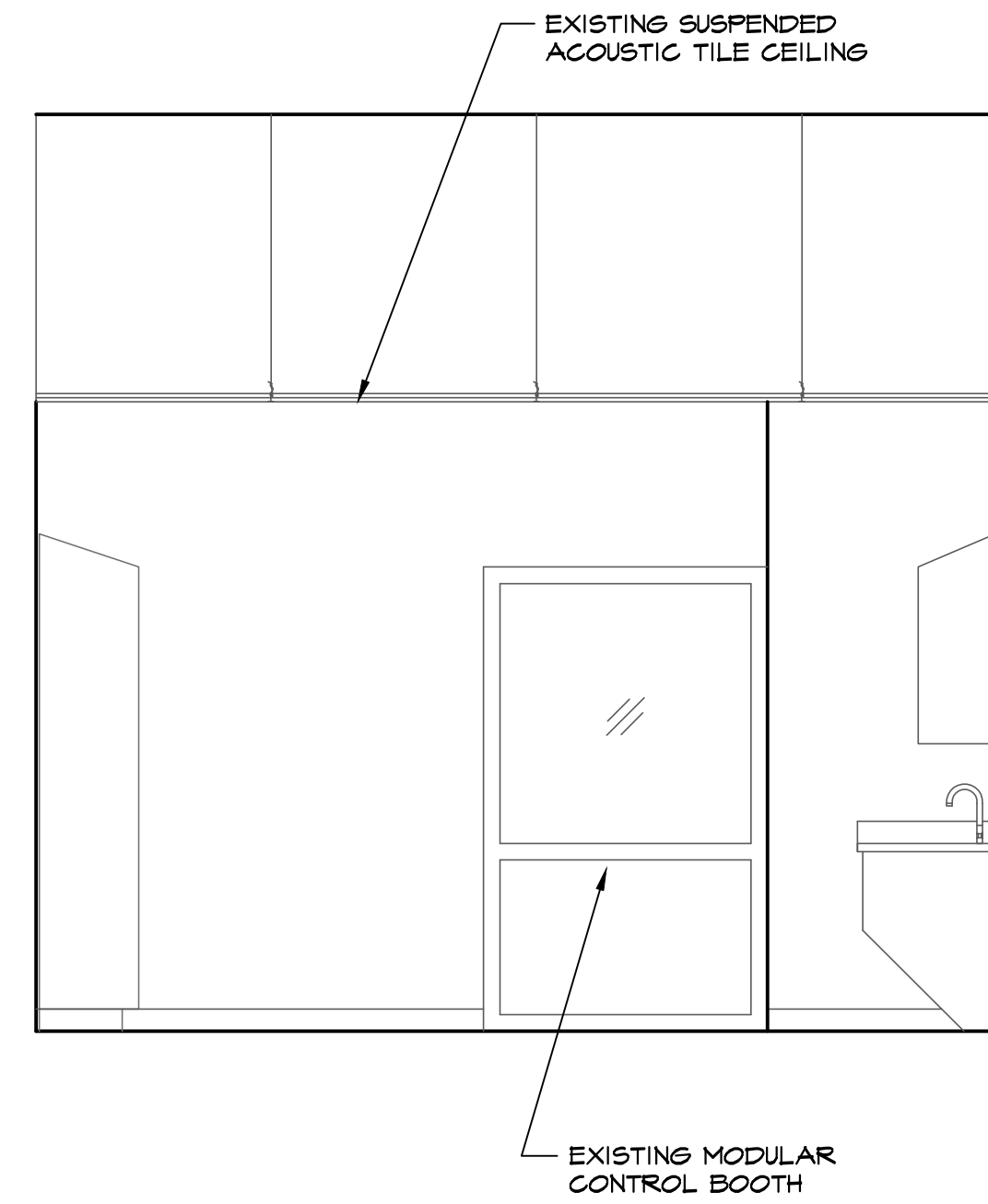
1



INTERIOR ELEVATION

SCALE
3/8" = 1'-0"

2

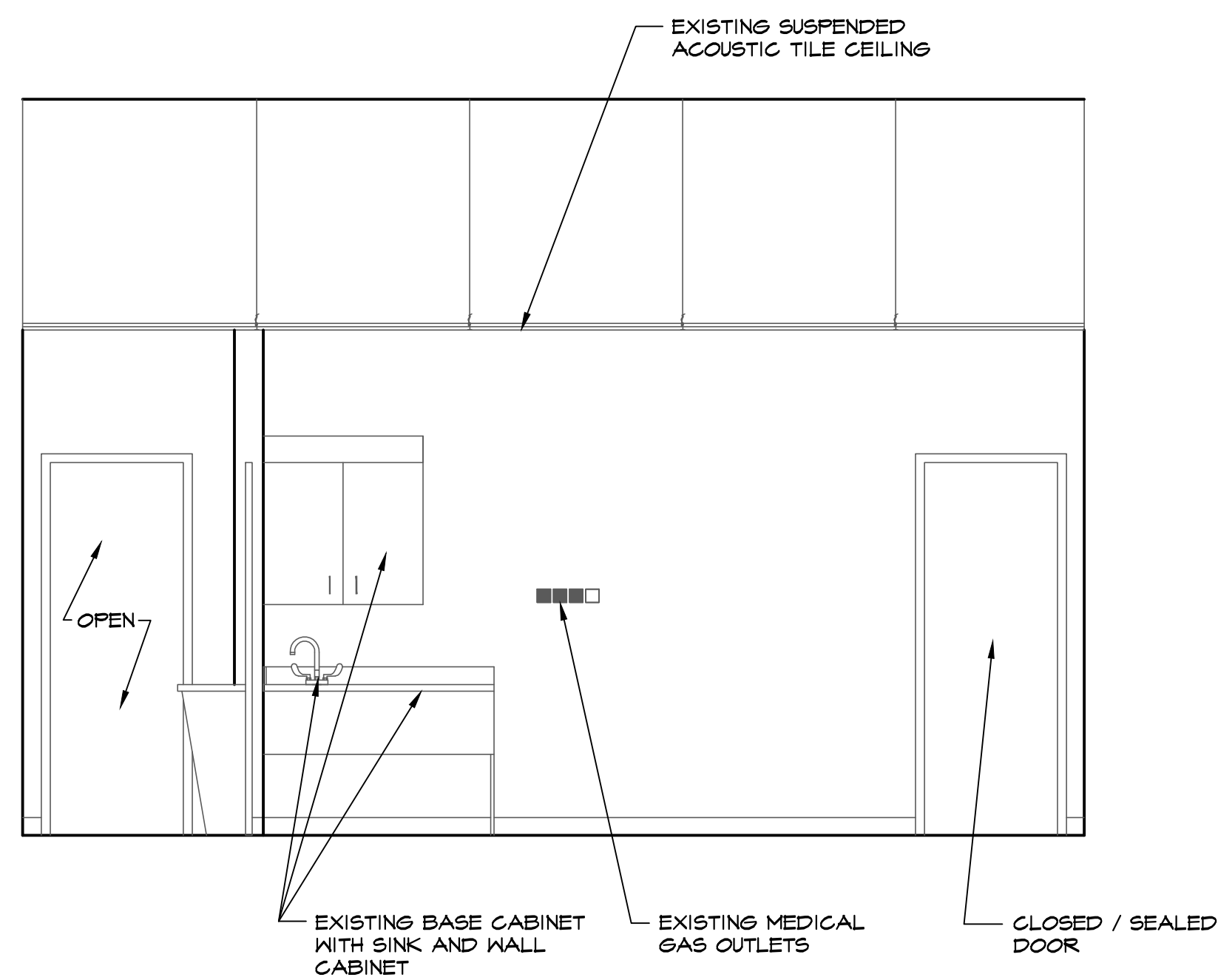


INTERIOR ELEVATION

SCALE
3/8" = 1'-0"

3

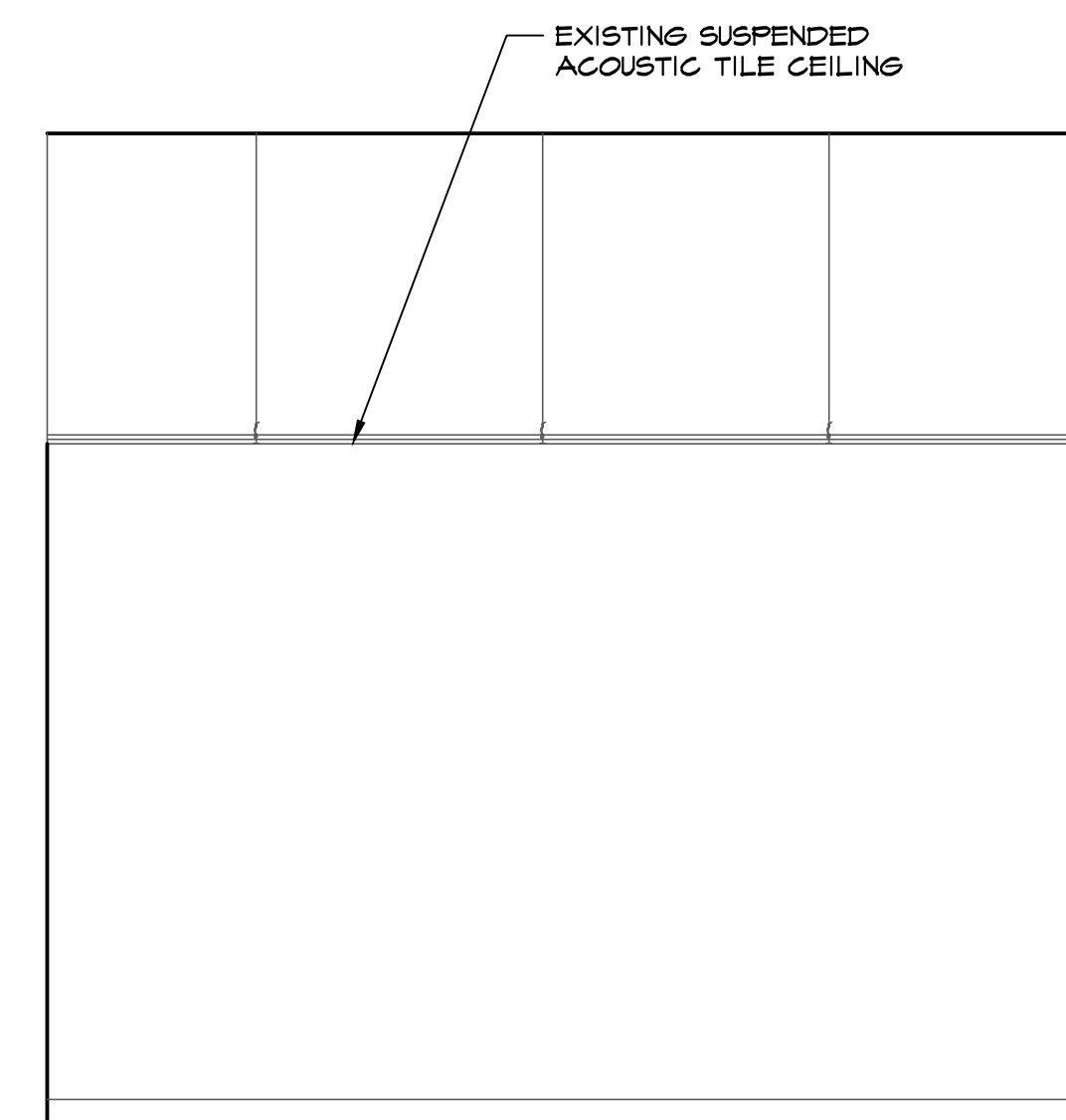
ROOM IN62



INT. ELEVATION

SCALE
3/8" = 1'-0"

4



INTERIOR ELEVATION

SCALE
3/8" = 1'-0"

5

DONALD H. BERG, ARCHITECT
3904 TURKEY OAK DRIVE
VALRICO, FLORIDA 33596
TEL: 813-681-7588
FL LICENSE NO. AR-0019524

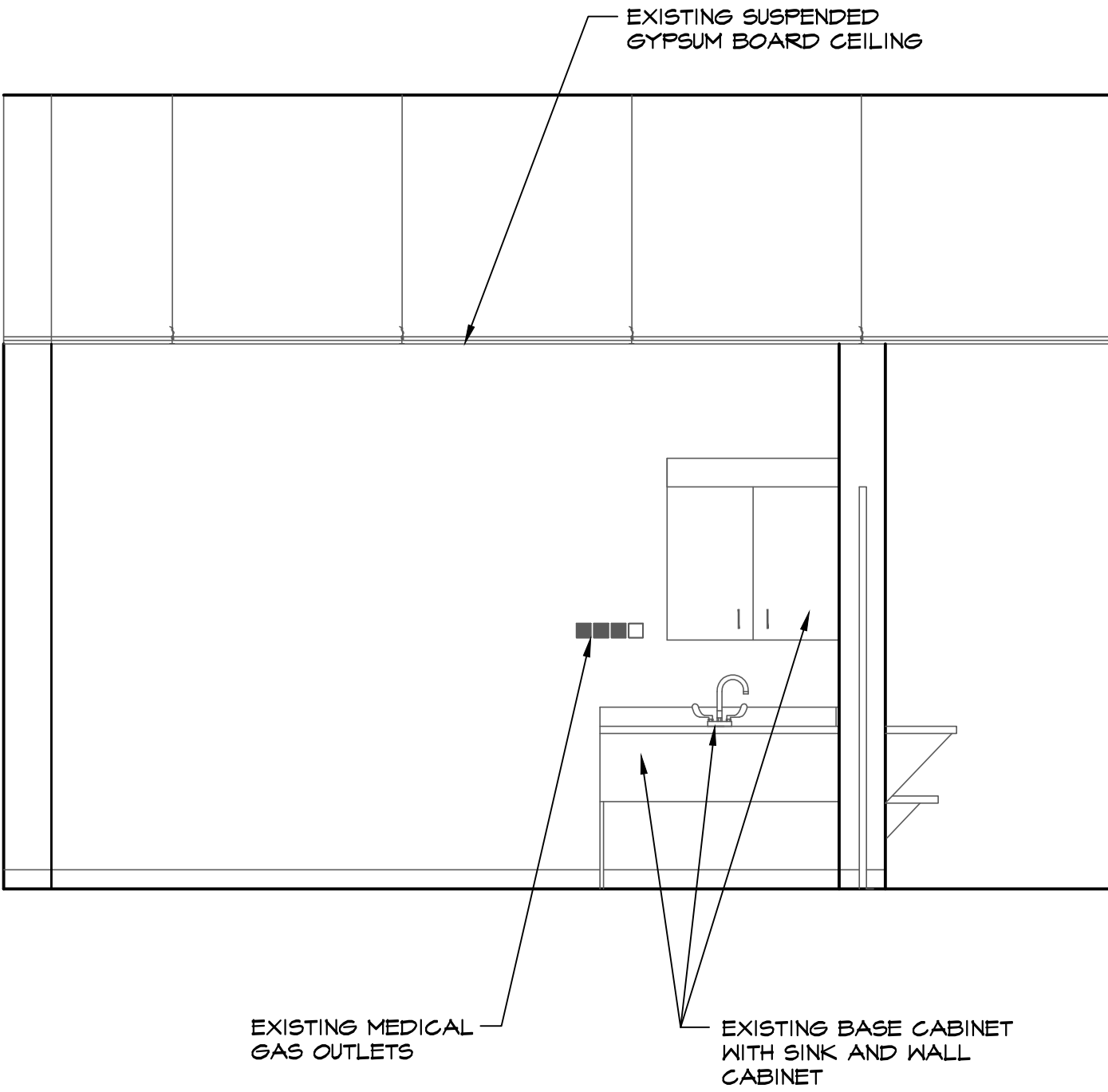
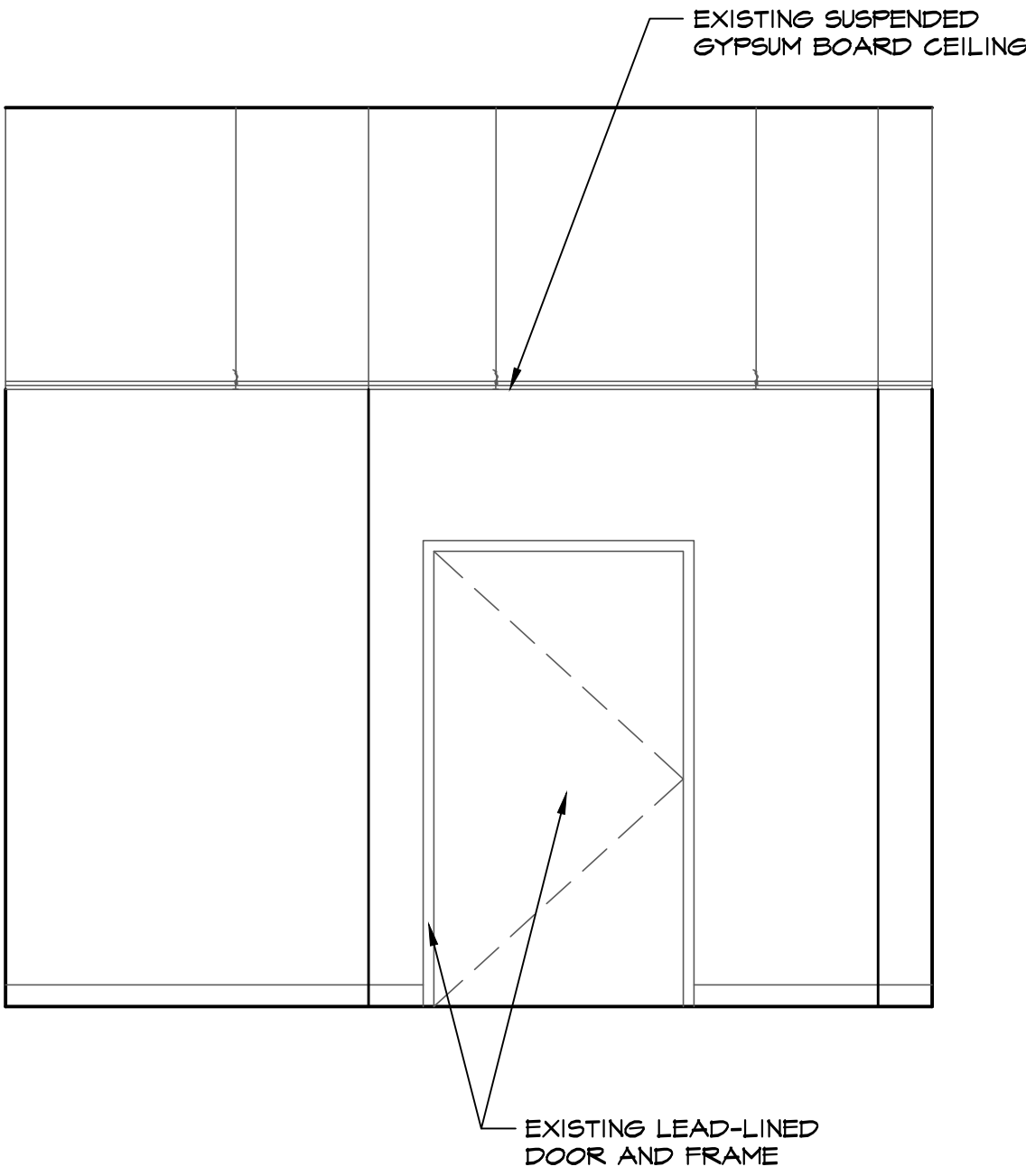
88TH MEDICAL GROUP, WRIGHT-PATTERSON AFB
X-RAY EQUIPMENT REPLACEMENT
ROOMS 1N55 & 1N62 - SAMSUNG GC85A VISION +
WRIGHT-PATTERSON MEDICAL CENTER
4881 SUGAR MAPLE DR.
WRIGHT-PATTERSON AFB, OHIO 45433

REVISIONS	

ISSUED FOR:	DATE:
☐ REVIEW	03/19/26
☐ BIDDING	
☐ PERMIT	
☐ CONSTRUCTION	

SHEET TITLE	
INTERIOR ELEVATIONS	
DATE	MARCH 19, 2026
PROJECT NO.	1025-01
SHEET NO.	

A-9



INTERIOR ELEVATION

SCALE
3/8" = 1'-0"

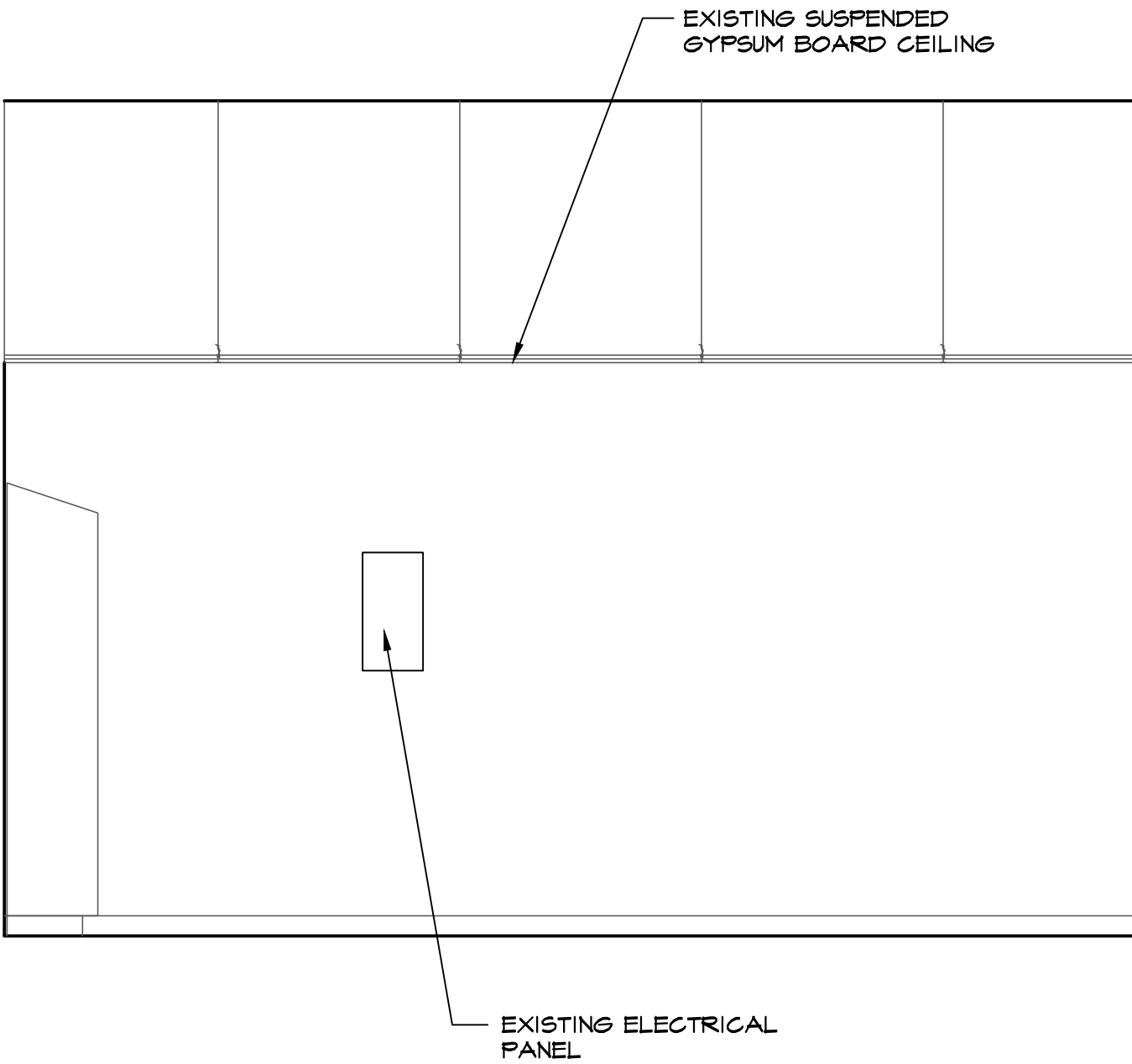
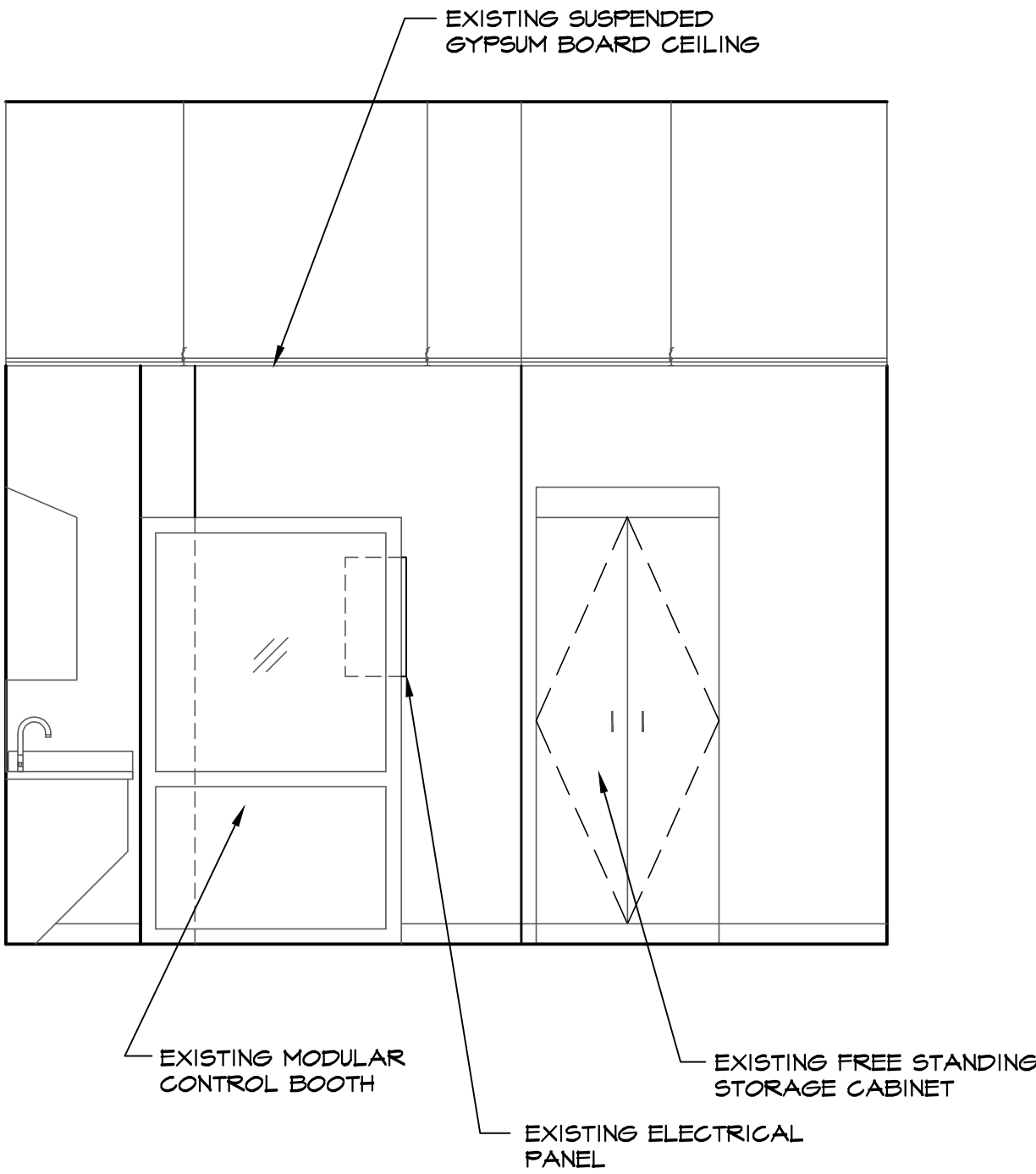
1

INTERIOR ELEVATION

SCALE
3/8" = 1'-0"

2

ROOM IN55



INT. ELEVATION

SCALE
3/8" = 1'-0"

3

INTERIOR ELEVATION

SCALE
3/8" = 1'-0"

4

88TH MEDICAL GROUP, WRIGHT-PATTERSON AFB
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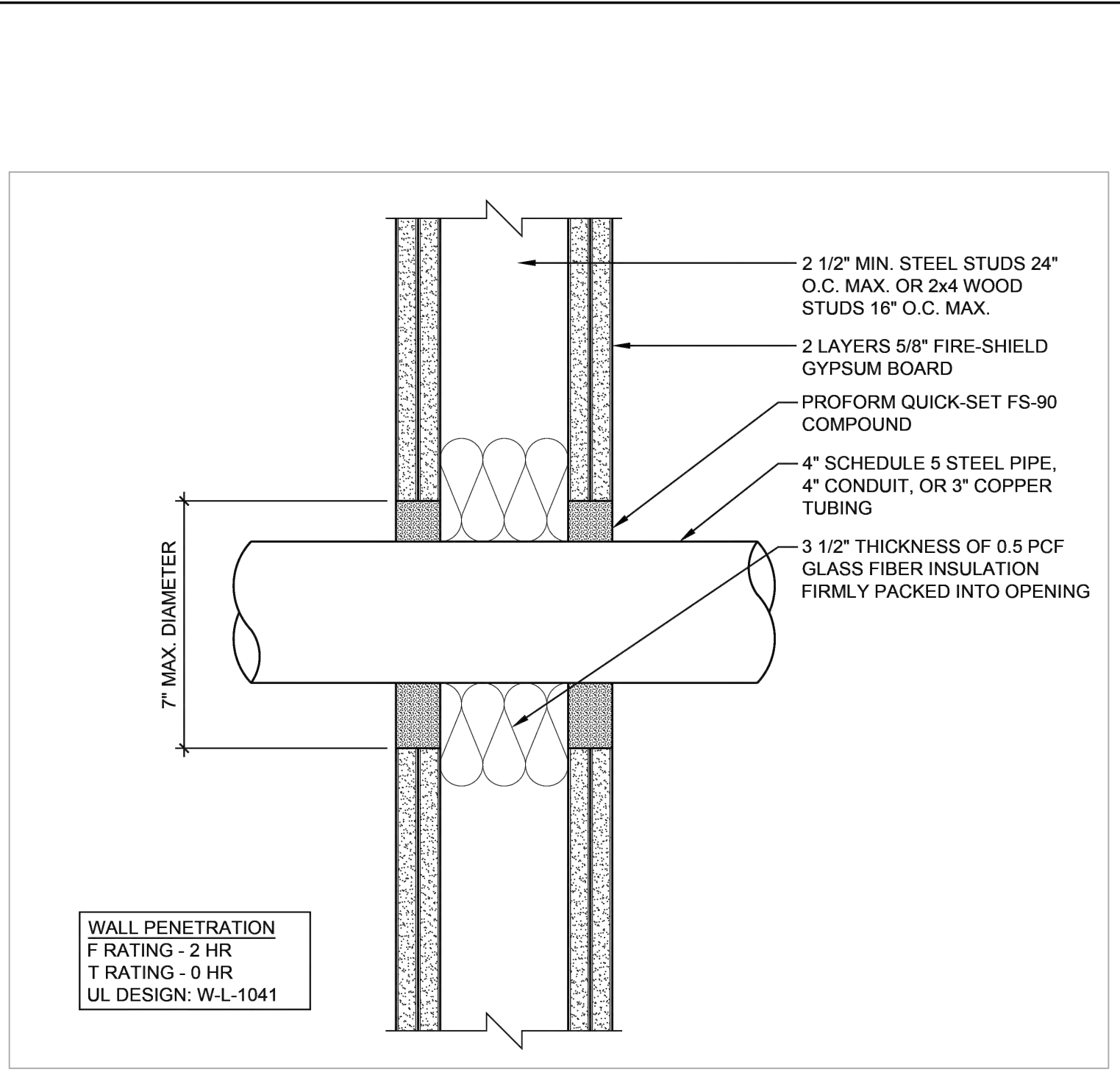
REVISIONS	

ISSUED FOR:	DATE:
☐ REVIEW	03/19/26
☐ BIDDING	
☐ PERMIT	
☐ CONSTRUCTION	

SHEET TITLE	
INTERIOR ELEVATIONS	
DATE	MARCH 19, 2026
PROJECT NO.	1025-01
SHEET NO.	

A-10

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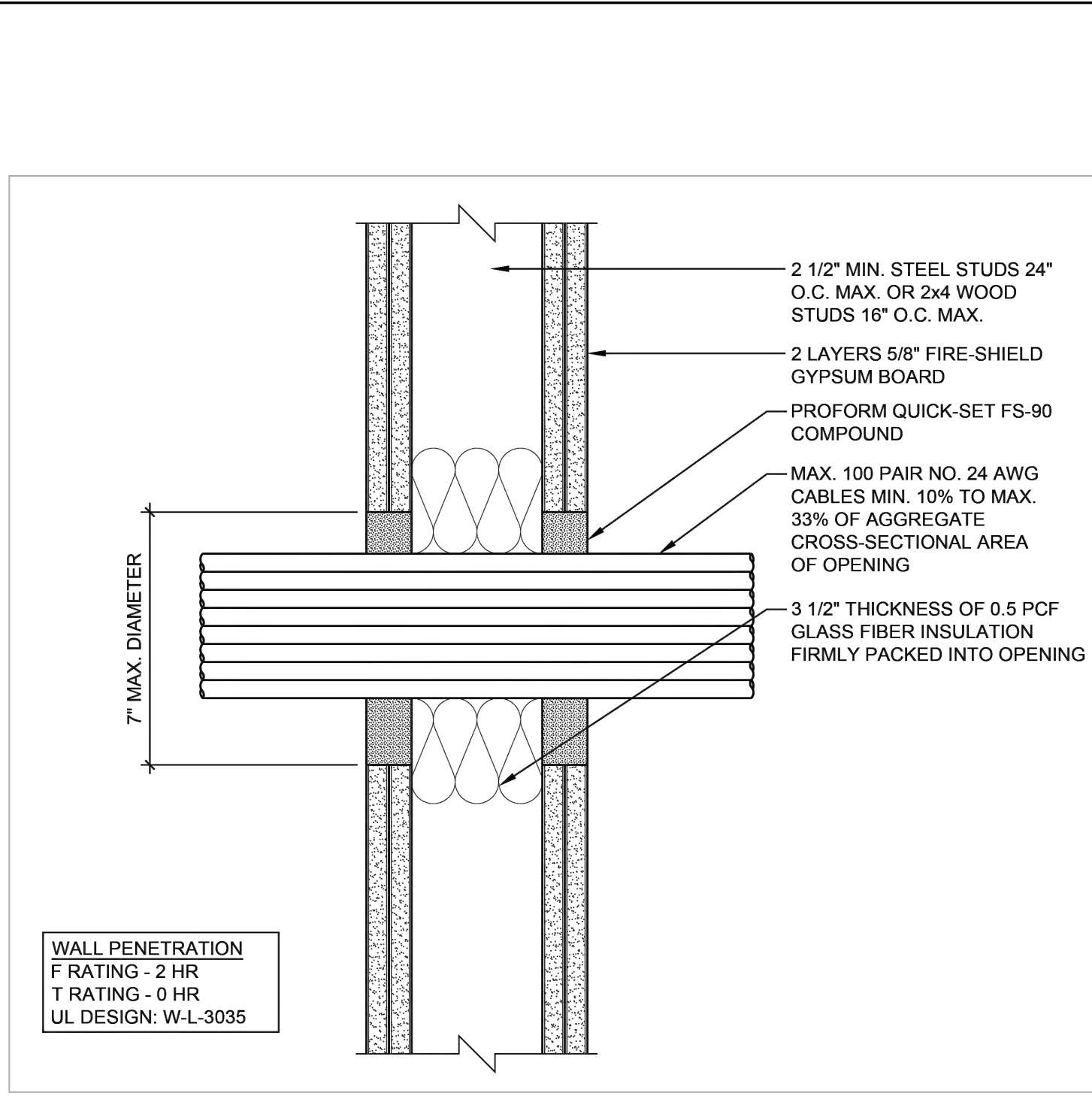


PIPE PENETRATION THROUGH WALL

PENETRATION DETAIL

SCALE N.T.S.

1

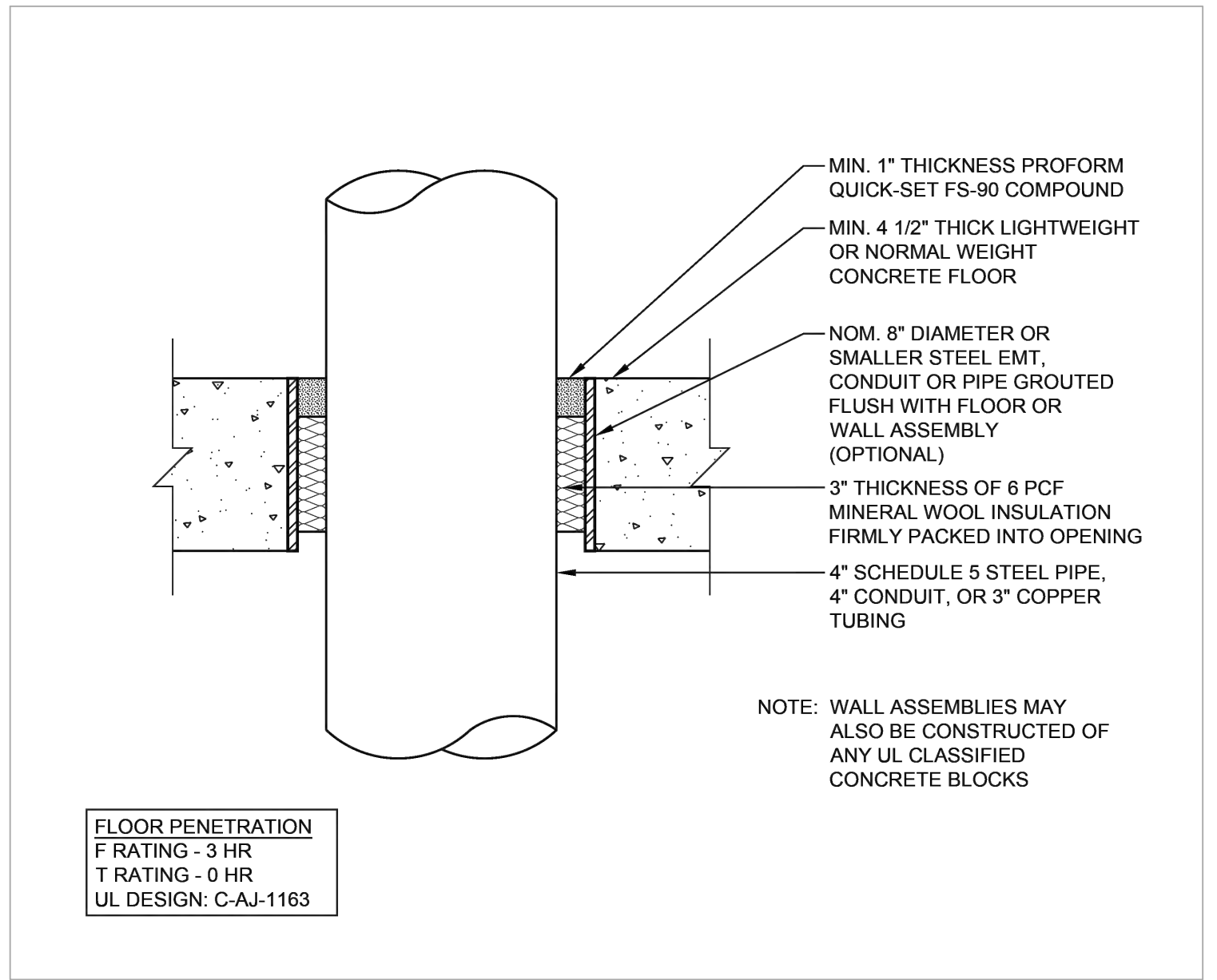


CABLE PENETRATION THROUGH WALL

PENETRATION DETAIL

SCALE N.T.S.

2

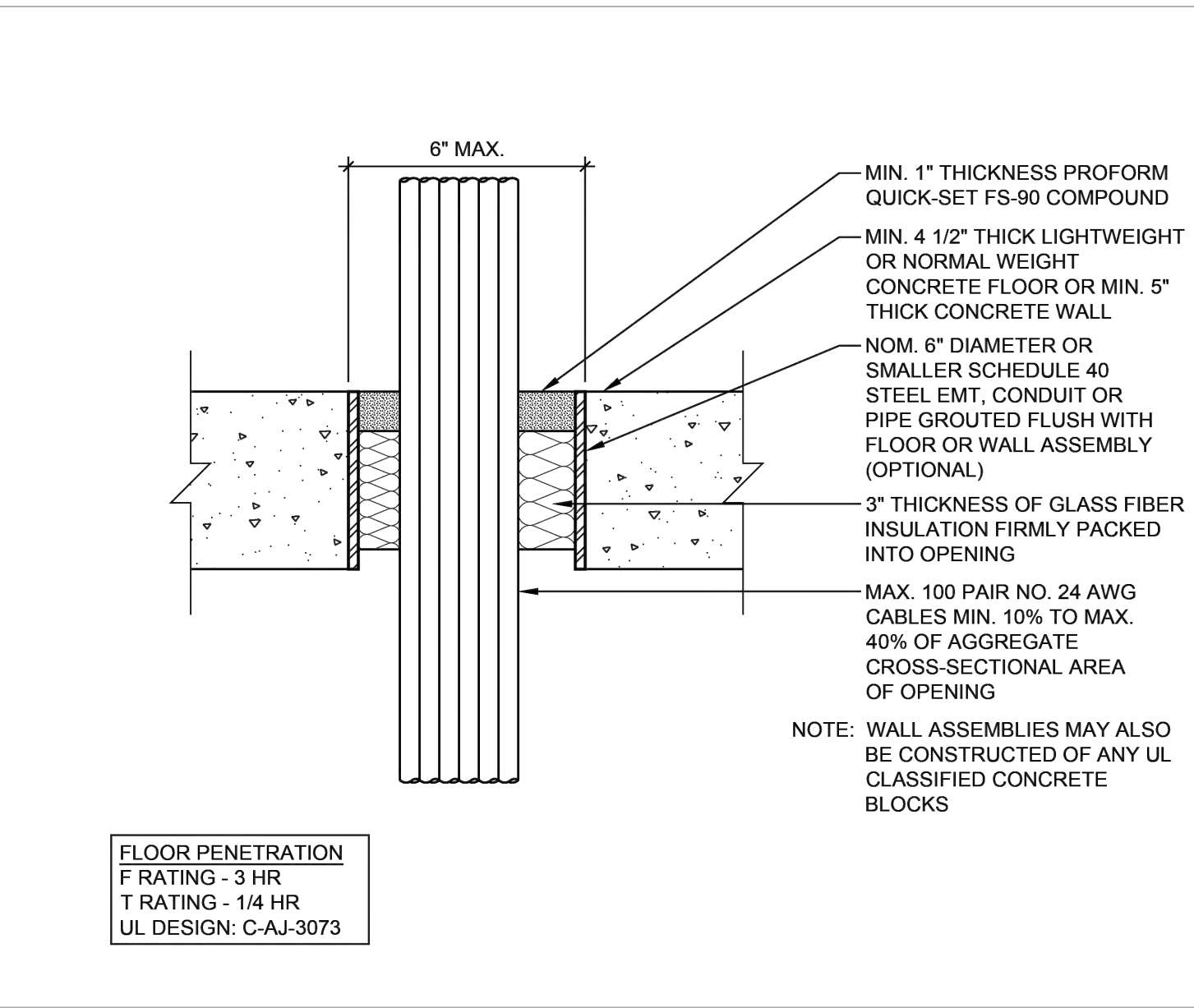


PIPE PENETRATION THROUGH FLOOR

PENETRATION DETAIL

SCALE N.T.S.

3



CABLE PENETRATION THROUGH FLOOR

PENETRATION DETAIL

SCALE N.T.S.

4



VOID FILL ASSEMBLY

PENETRATION DETAIL

SCALE N.T.S.

5

NO.	SIZE	DOOR	FRAME	GLASS	ELEV.	HARDWARE	REMARKS
X	EXISTING TO REMAIN	EXISTING	EXISTING			EXISTING	

NO.	SIZE	DOOR	FRAME	GLASS	ELEV.	HARDWARE	REMARKS
X	EXISTING TO REMAIN	EXISTING	EXISTING			EXISTING	

DOOR SCHEDULE

SCALE N/A

6

NUMBER	NAME	FLOOR	BASE	WALLS / TRIM	CEILING	CEILING HEIGHT	REMARKS
INC4	CORRIDOR	-	-	-	-		-
IN55	X-RAY	VCT-I	-	P-1 / P-2	-		NOTE I
IN58	WORK ROOM	-	-	-	-		-
IN62	X-RAY	VCT-I	-	P-1 / P-2	-		NOTE I
IN66	CORRIDOR	-	-	-	-		-

NOTES:
I. 4x4' FLOOR AREA

FINISH SCHEDULE

SCALE N/A

7

ITEM	MATERIAL	MANUFACTURER	COLOR
P-1	PAINT - WALLS	SHERWIN WILLIAMS	
P-2	PAINT - TRIM / DOORS	SHERWIN WILLIAMS	
VCT-I	VINYL COMPOSITION TILE 12"x12"x1/8"	ARMSTRONG	

COLOR SELECTIONS BY HOSPITAL

MATERIAL / COLOR SCHEDULE

SCALE N/A

8

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☐ PERMIT	
☐ CONSTRUCTION	

SHEET TITLE
DETAILS SCHEDULES
DATE MARCH 19, 2026
PROJECT NO. 1025-01
SHEET NO.

A-11

DONALD H. BERG, ARCHITECT
3904 TURKEY OAK DRIVE
VALRICO, FLORIDA 33596
TEL: 813-681-7588
FL LICENSE NO. AR-0015294

FL LICENSE NO. AR-0015529

88TH MEDICAL GROUP, WRIGHT-PATTERSON AFB
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4881 SUGAR MAPLE DR.
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REVISIONS

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☐ <u>BIDDING</u>	_____
☐ <u>PERMIT</u>	_____
☐ <u>CONSTRUCTION</u>	_____

SHEET TITLE					
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DATE
MARCH 19, 2026

PROJECT NO.
|025-0|

SHEET NO.

A-12

ARCHITECTURAL SPECIFICATIONS:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS AND SPECIFICATIONS AS PART OF THIS DRAWING SET INCLUDING ARCHITECTURAL, MECHANICAL, FIRE PROTECTION, PLUMBING, ELECTRICAL, AND VENDOR DRAWINGS PRIOR TO SUBMITTING A BID. REPORT ANY DISCREPANCIES TO ARCHITECT OR APPLICABLE ENGINEER PRIOR TO BID.

2. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED, OR FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OR HOSPITAL OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.

DIVISION I - GENERAL REQUIREMENTS

CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF ACCEPTANCE AND SHALL ADVISE HOSPITAL IN WRITING OF ANY HOSPITAL REQUIRED MAINTENANCE TO MAINTAIN WARRANTY.

CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.

ALL REQUIRED INSURANCE TO BE PROVIDED FOR THE PROTECTION AGAINST PUBLIC LIABILITY
OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

CONTRACTOR SHALL MAINTAIN ON SITE A DEDICATED COMPLETE COPY OF THESE DRAWINGS TO BE MARKED UP WITH ALL CONSTRUCTION DEVIATIONS. A COPY OF THIS MARKED-UP SET OF DRAWINGS WILL BE GIVEN TO THE ARCHITECT AFTER WORK HAS BEEN COMPLETED AND ACCEPTED BY THE MEDICAL CENTER. TRANSMITTAL SHALL TAKE PLACE WITHIN 30 DAYS OF ACCEPTANCE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL CONSTRUCTION MATERIALS AND MANUFACTURED ITEMS / PRODUCTS.

DIVISION 2 - SITE WORK (DEMOLITION)

REMOVE LIMITED AREA OF EXISTING FLOORING WHERE SHOWN.

DIVISION 3 - CONCRETE

IF NEEDED PATCH AND LEVEL EXISTING FLOOR SLAB WITH ARDEX LU-100 OR EQUAL TO MEET GE'S SPECIFICATIONS.

DIVISION 4 - MASONRY - N/A

DIVISION 5 - METALS - N/A

DIVISION 6 - WOOD & PLASTICS - N/A

DIVISION 7 - THERMAL & MOISTURE PROTECTION

CAULK AND SEAL ALL PENETRATIONS THROUGH ALL PARTITIONS AND SLABS IN ACCORDANCE WITH NEC 300-21. SEE EXAMPLE DRAWINGS ON PREVIOUS SHEET. PENETRATIONS THROUGH CORRIDOR PARTITIONS, ADJOINING ROOMS AND SLABS SHALL BE SEALED OR SLEEVED AND SEALED IN ACCORDANCE WITH THE SPECIFICATIONS TO STOP AIR PASSAGE.

DIVISION 8 - DOORS & WINDOWS - N/A

DIVISION 9 - FINISHES

VCT FLOORING SHALL BE ARMSTRONG, OR SIMILAR, IMPERIAL TEXTURE 12" X 12" X 1/8" VINYL COMPOSITION TILE FLOORING IN A 4' X 9' AREA WHERE NEW X-RAY TABLE SHALL BE LOCATED. FIRE TEST PERFORMANCE OF: ASTM E 648 CRITICAL RADIANT FLUX OF 0.45 WATTS PER SQ. CM. OR GREATER, CLASS I, ASTM E 662 (SMOKE GENERATION) MAXIMUM SPECIFIC OPTICAL DENSITY OF 450 OR LESS.

PAINT ALL HOLLOW METAL FRAMES AND SIMILAR ITEMS WITH ONE (1) COAT LATEX PRIMER AND TWO (2) COATS BENJAMIN MOORE SEMI-GLOSS PAINT.

DO NOT USE OIL BASED PAINTS.

DIVISION 10 - SPECIALTIES - N/A

DIVISION II - EQUIPMENT - N/A

DIVISION 12 - FURNISHINGS - N/A

DIVISION 13 - SPECIAL CONSTRUCTION - N/A

DEMOLITION NOTES

GENERAL

1. ELECTRICAL PLANS DO NOT INCLUDE A DEMOLITION PLAN FOR THE RENOVATED AREAS. THE RENOVATED AREAS, INCLUDING WALLS, CEILINGS, ETC., TO BE REMOVED, ARE SHOWN ON THE ARCHITECTURAL PLANS. CONTRACTOR SHALL REVIEW THESE PLANS AND COORDINATE WITH THE GENERAL CONTRACTOR ON SITE TO DETERMINE THE EXTENT OF THE DEMOLITION WORK AND PROJECT PHASES REQUIRED AND PROVIDE ACCORDINGLY. ALL ELECTRICAL DEMOLITION WORK SHOWN OR IMPLIED IN THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE PART OF THE ELECTRICAL CONTRACTOR'S WORK.
2. ELECTRICAL DEMOLITION WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, REMOVING, RECEPTACLES, WIRE, CONDUIT, ETC., AS REQUIRED FOR THE INSTALLATION OF NEW EQUIPMENT AND REMODELING OF THE EXISTING FACILITY AS INDICATED ON THE PLANS.
3. CONTRACTOR SHALL REMOVE ANY EXPOSED WIRE, CONDUIT, HANGERS, CLAMPS, ETC., WHICH ARE NOT BEING UTILIZED FOR THE NEW INSTALLATION.
4. EXISTING WIRE AND CONDUITS CONCEALED ABOVE CEILING OR IN WALLS AND NOT BEING REUSED SHALL BE REMOVED. EXISTING CONDUITS, WHERE APPLICABLE, MAY BE REUSED.
5. REVISE ALL EXISTING PANEL DIRECTORIES TO REFLECT ALL REVISIONS.
6. ALL LIGHTING FIXTURES BEING RELOCATED OR SHOWN ON PLANS DENOTED WITH (RE) SHALL BE CLEANED, RE-LAMPED, AND REPAIRED TO PROPER WORKING CONDITION IF REQUIRED.
7. THE CONTRACTOR SHALL PROVIDE RUBBER MATS AND PLYWOOD COVERS TO ALL OWNER'S EQUIPMENT SUSCEPTIBLE TO DAMAGE DURING CONSTRUCTION. VERIFY SPECIFIC LOCATIONS WITH OWNER'S AUTHORIZED REPRESENTATIVE.
8. ALL WORK SHALL BE PERFORMED DURING TIME PERIODS ACCEPTABLE TO THE OWNER. SCHEDULE ALL WORK WITH THE OWNER'S AUTHORIZED REPRESENTATIVE 48 HOURS BEFORE PROCEEDING.
9. CONTRACTOR SHALL VISIT THE JOB SITE AND BE THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH THE WORK MUST BE PERFORMED.
10. ANY LIGHTING FIXTURES AND LAMPS BEING REMOVED SHALL BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER. COORDINATE DISPOSITION OF ALL FIXTURES WITH OWNER PRIOR TO REMOVAL.

5. ALL MATERIALS SHALL BE NEW AND OF DOMESTIC ORIGIN AND SHALL BEAR UNDERWRITERS' LABEL WHERE APPLICABLE.
6. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM IS TO BE FULLY OPERABLE AND ACCEPTANCE OF THIS SYSTEM BY THE ENGINEER/ARCHITECT MUST BE A CONDITION OF THE SUB CONTRACT.
7. ALL WORK TO BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
8. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE.
9. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
10. ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
11. ELECTRICAL INSTALLATION TO MEET ALL STANDARD REQUIREMENTS OF LOCAL POWER AND TELEPHONE COMPANIES.
12. MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING, UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE COPPER WITH THINWALL INSULATION. CONDUCTORS #12 AND SMALLER SHALL BE SOLID; ALL THOSE #10 AND LARGER TO BE STRANDED.
13. ALL RECESSED OUTLET BOXES IN WALLS OR CEILINGS, SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS.
14. ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. COLOR OF NEW DEVICES AND PLATES SHALL MATCH EXISTING DEVICES AND PLATES. ALL NEW RECEPTACLES SHALL BE HOSPITAL GRADE; ALL NEW SWITCHES SHALL BE INDUSTRIAL GRADE. ALL DEVICES ON GENERATOR POWER SHALL BE RED WITH "EMERGENCY" ENGRAVED IN WHITE LETTERS. ALL RECEPTACLE AND LIGHT SWITCH COVER PLATES SHALL BE ENGRAVED WITH PAINT FILLED LETTERS (BLACK) TO INDICATE PANEL AND CIRCUIT NUMBER POWERING THE DEVICE.
15. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
16. ALL ELECTRICAL RACEWAYS (METALLIC AND NONMETALLIC) SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE CODE.
17. LOAD DATA IS BASED ON INFORMATION GIVEN ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.
18. CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
19. ALL SWITCHGEAR SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. CONTRACTOR SHALL VERIFY BUILDING STANDARD AND PROVIDE ACCORDINGLY. TANDEM AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED. PROVIDE ARC FLASH WARNING SIGNAGE FOR ALL NEW PANELBOARDS.
20. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS. PENETRATION SEALS SHALL BE PER U.L. LISTED ASSEMBLY STANDARDS FOR EACH LOCATION.

GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING WIRING AND EQUIPMENT MADE UNNECESSARY BY THE RENOVATION. ALL MATERIALS REMOVED SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH INTERIOR ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND/OR LOCATIONS OF ALL OUTLETS AND WIRING DEVICES.

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2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH INTERIOR ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND/OR LOCATIONS OF ALL OUTLETS AND WIRING DEVICES.

1. THE INTERIOR ELECTRICAL SYSTEMS SHALL BE COMPLETELY AND EFFECTIVELY GROUNDING AS REQUIRED BY THE NEC. ALL METALLIC RACEWAYS SHALL BE MECHANICALLY AND ELECTRICALLY SECURE AT ALL JOINTS AND AT ALL BOXES, CABINETS, FITTINGS AND EQUIPMENT. METALLIC RACEWAYS SHALL BE CONNECTED TO A DIRECT GROUND AT THE POINT OF ELECTRICAL SERVICE ENTRANCE.

2. CONTRACTOR SHALL FIELD VERIFY RECEPTACLE CONFIGURATION, VOLTAGE, PHASE AND AMPERAGE FOR ALL REQUIRED OUTLETS. PROVIDE DEDICATED CIRCUITS AS REQUIRED. ADVISE ENGINEER IF NECESSARY.

3. CONTRACTOR SHALL SUPPLY AND INSTALL ALL JUNCTION BOXES, TROUGHS, WIRE, CIRCUIT BREAKERS, ETC., UNLESS OTHERWISE SPECIFIED.

4. CONDUIT RUNS ARE SHOWN SCHEMATICALLY. BUILDING CONDITIONS TO DETERMINE THE ACTUAL RUNS.

5. CONDUIT ELBOWS TO BE LARGE SWEEPS PER CODE.

6. CONTRACTOR SHALL PROVIDE AND COIL A MINIMUM 10'-0" OF SLACK CONDUCTOR FOR CONNECTION TO EQUIPMENT BY OTHERS. IDENTIFY BOTH ENDS OF WIRE.

7. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE VENDOR'S SYSTEM INSTALLATION DRAWINGS PRIOR TO START OF CONSTRUCTION.

8. ALL CONDUIT USED SHALL BE A MINIMUM 3/4" DIAMETER.

9. CONDUITS AND DUCT, ABOVE CEILING, MUST BE INSTALLED AS NEAR TO CEILING AS POSSIBLE TO REDUCE RUN LENGTHS.

10. THESE DRAWINGS ARE DIAGRAMMATIC AND INTENDED ONLY TO SHOW THE REQUIRED SCOPE OF WORK. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDUIT RUNS AND THEIR CONDITIONS AS WELL AS THE SUITABILITY OF LOCATING ALL NEW CONDUIT SHOWN ON THE PLANS OR IDENTIFIED IN NOTES.

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1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL AND ELECTRICAL PRIOR TO SUBMITTING A BID.
2. REPORT ANY DISCREPANCIES TO ARCHITECT OR ENGINEER PRIOR TO BID.
3. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS INCLUDING BUT NOT LIMITED TO, SERVICE LOCATION, SERVICE LAYOUTS, TELEPHONE LOCATION, ETC.
5. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.
7. COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH WOULD REQUIRE ELECTRICAL WORK (DISCONNECTION, RECONNECTION, ETC.) AND ARE NOT INDICATED ON ELECTRICAL DRAWINGS.

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6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.
7. COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH WOULD REQUIRE ELECTRICAL WORK (DISCONNECTION, RECONNECTION, ETC.) AND ARE NOT INDICATED ON ELECTRICAL DRAWINGS.

[illegible]

GENERAL:

THESE DRAWINGS ARE BASED ON EXISTING DOCUMENTS FOR THE SAID BUILDING AND ON A VISUAL FIELD OBSERVATION. THEREFORE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO, SERVICE LOCATION AND AVAILABLE BRANCH PANELBOARDS, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO BID. FAILURE TO DO SO MAY CONSTITUTE THAT THE CONTRACTOR PROVIDE ANY AND ALL ADDITIONAL EQUIPMENT, LABOR, ETC. TO MEET THE INTENDED DESIGN PARAMETERS AT HIS/HER SOLE EXPENSE.

SPECIFIC ITEMS TO BE VERIFIED:

CONTRACTOR SHALL VERIFY LOCATION AND TYPE OF EXISTING SERVICE DISTRIBUTION PANELBOARDS SERVING THE PROJECT AREA.

CONTRACTOR SHALL REVISE ALL EXISTING PANEL DIRECTORIES, AS REQUIRED, TO REFLECT ALL REVISIONS. PROVIDE NEW DIRECTORIES FOR PANELS WITH CURRENT DIRECTORIES MISSING.

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PANELBOARDS SERVING THE PROJECT AREA.

CONTRACTOR SHALL REVISE ALL EXISTING PANEL DIRECTORIES, AS REQUIRED, TO REFLECT ALL REVISIONS. PROVIDE NEW DIRECTORIES FOR PANELS WITH CURRENT DIRECTORIES MISSING.

<u>SHEET No.</u>	<u>SHEET TITLE</u>
E-100.00	LEGEND AND NOTES
E-101.00	KEY PLANS
E-200.00	POWER PLAN AND NOTES
E-300.00	REFERENCED VENDOR DRAWINGS
E-400.00	REFERENCED VENDOR DRAWINGS
E-500.00	POWER RISER DIAGRAM AND SCHEDULES
E-600.00	ELECTRICAL SPECIFICATIONS

<u>SHEET No.</u>	<u>SHEET TITLE</u>
E-100.00	LEGEND AND NOTES
E-101.00	KEY PLANS
E-200.00	POMER PLAN AND NOTES
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ISSUED FOR: _____ DATE: _____

A

REVIEW 02/20/20

ENDING

PERMIT

☐ CONSTRUCTION

SHEET TITLE

**ELECTRONIC
LEGEND**

RECOMMENDATIONS AND NOTES

100

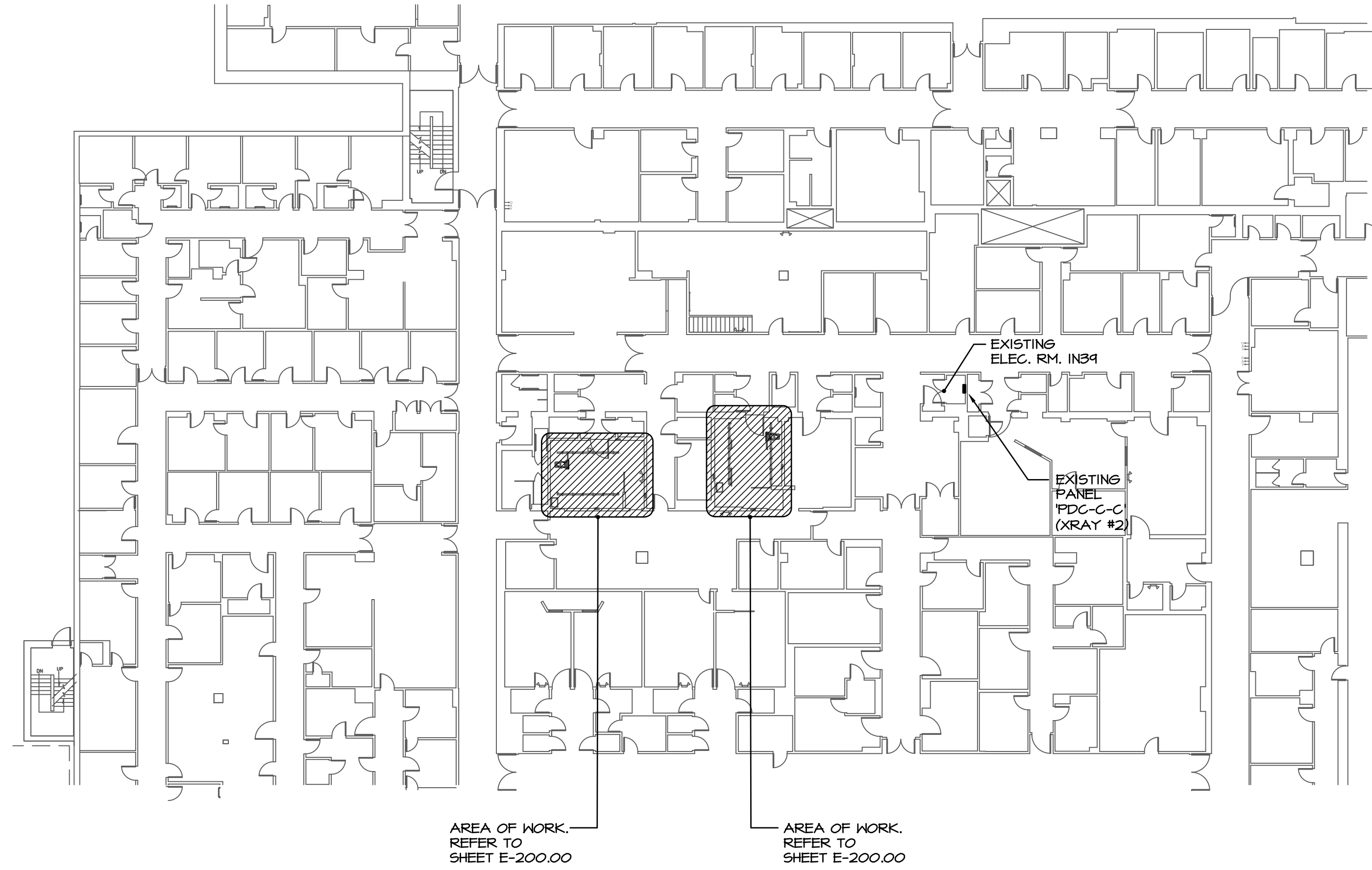
MARCH 19, 2026

PROJECT NO.
1035-01

SHEET NO.

£ 100.00

L=100.00



NORTH
↑
KEY PLAN
SCALE: 1" = 20'-0"

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☒ REVIEW	02/20/2026
☐ CONSTRUCTION	

SHEET TITLE	KEY PLAN
DATE	MARCH 19, 2026
PROJECT NO.	1625-01

SHEET NO.	E-101.00
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SYSTEM GROUNDING NOTES

1. DEDICATED EARTH CONDUCTOR (GROUND) SHALL BE SAME SIZE AS POWER WIRES AT ALL TIMES FOR ALL ROUTINGS FROM GROUNDED NEUTRAL SOURCE TO VENDOR'S EQUIPMENT (REFER TO DETAILS ON DRAWINGS).
2. GROUND THE NEARLY DERIVED NEUTRAL IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, HOWEVER, DO NOT USE ELECTRICAL CONDUITS OR ELECTRICAL RACEWAYS AS GROUNDING ELECTRODES.
3. VERIFY WITH EQUIPMENT SUPPLIER/INSTALLER FOR ALL REQUIRED GROUNDING LOCATIONS AND PROVIDE ACCORDINGLY.
4. ALL METAL DEVICES, INCLUDING METAL SURFACES OF FIXED MEDICAL EQUIPMENT, WITHIN THE PROCEDURE ROOM SHALL BE BONDED WITH MINIMUM #10 AWG CU. ITEMS SHALL INCLUDE, BUT NOT LIMITED TO:
 - a. MEDICAL GAS PIPES AND WATER PIPES
 - b. ALL INTERCOM, TELEPHONE AND NURSE CALL OUTLET BOXES
 - c. ALL EXPOSED CONDUCTIVE SURFACES
 - d. GROUNDING TERMINAL OF ROOM RECEPTACLES
5. ELECTRICAL CONTRACTOR SHALL PERFORM EQUIPOTENTIAL GROUND TESTING IN THE PATIENT CARE AREAS WITH AN APPROVED METER AS STIPULATED IN NFPA 99 SECTION 4.3.3. TESTING REPORTS SHALL BE PROVIDED TO THE ARCHITECT, AND ONE COPY SHALL REMAIN AT THE JOB SITE FOR REFERENCE BY THE INSPECTING AUTHORITIES.

ALARM SYSTEM NOTES

1. CONTRACTOR SHALL COORDINATE WITH THE FACILITY SAFETY OFFICER FOR ALL DEVICE LOCATIONS AND PROVIDE BOX AND CONDUIT FOR ANY NEW DEVICES REQUIRED.
2. MODIFICATION OF EXISTING SYSTEM IS NOT INCLUDED IN THIS PROJECT SCOPE OF WORK.

BUILDING SITE SPECIFIC NOTE

INFORMATION SHOWN ON THIS DRAWING IS BASED ON INFORMATION PROVIDED TO ENGINEER AT TIME OF DESIGN. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES BACK TO ARCHITECT/ENGINEER PRIOR TO BID.

CRITICAL NOTE

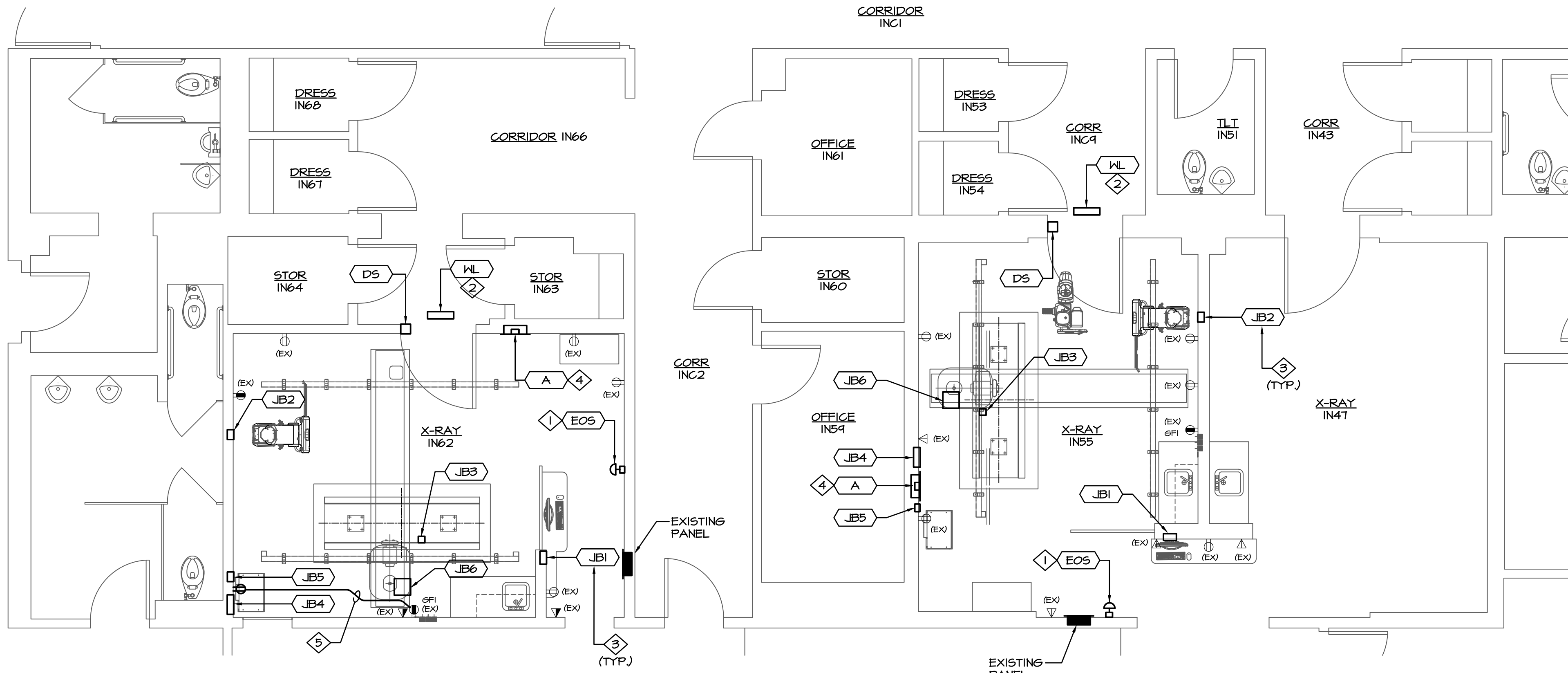
THESE ELECTRICAL DRAWINGS WERE CREATED FOR USE WITH SAMSUNG GC85A OTC SYSTEM INSTALLATION DRAWINGS. REFER TO THE PLANS NOTED BELOW FOR ADDITIONAL ELECTRICAL DETAILS AND NOTES AND PROVIDE ACCORDINGLY. CONTRACTOR MUST COORDINATE THESE ELECTRICAL DRAWINGS WITH SYSTEM DRAWINGS TO PROVIDE A COMPLETE INSTALLATION. NOTIFY ARCHITECT/ENGINEER IF SYSTEM DRAWINGS ARE NOT AS INDICATED IN THIS NOTE.

VENDOR'S DRAWING LIST:

- | | |
|----|----------------------|
| E1 | ELECTRICAL LAYOUT |
| E2 | CABLE LENGTH |
| E3 | ELECTRICAL DETAILS |
| E4 | WARNING LIGHT DETAIL |

GENERAL NOTE:

EQUIPMENT LAYOUT, NOTES AND INTERCONNECTION WIRING ARE BASED UPON INFORMATION GIVEN TO THE ENGINEER AT TIME OF DESIGN. THE CONTRACTOR SHALL COORDINATE ALL CONDUIT REQUIREMENTS, ALL CABLING LENGTHS, AND EQUIPMENT LAYOUT OF ACTUAL EQUIPMENT FURNISHED WITH VENDOR'S REPRESENTATIVE PRIOR TO START OF CONSTRUCTION.



NOTES

1. THE CONTRACTOR SHALL REMOVE ALL EXISTING WIRING AND EQUIPMENT MADE UNNECESSARY BY THE RENOVATION. ALL MATERIALS REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR.
2. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATION OF MOUNTING HEIGHTS AND/OR LOCATIONS OF ALL OUTLETS AND WIRING DEVICES.
3. ALL TELEPHONE/DATA JACKS AND CABLING TO BE PROVIDED AND INSTALLED BY OWNER'S VENDOR.
4. (EX) DENOTES EXISTING DEVICE TO REMAIN AS-IS.
5. GROUND CONDUCTOR SHALL BE INSTALLED IN ENTIRE RACEWAY SYSTEM.
6. REUSE EXISTING JUNCTION BOXES, CONDUIT AND WIRING WHERE APPLICABLE. REMOVE AND DISPOSE OF ALL UNUSED CONDUIT AND WIRING BACK TO ITS SOURCE.
7. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ALL DEVICE TYPES, LOCATIONS AND QUANTITIES WITH OWNER'S REPRESENTATIVE AND PROVIDE ACCORDINGLY.

NOTICE

1. THESE ELECTRICAL DRAWINGS HAVE BEEN DESIGNED WITH AND SHALL BE BID IN CONJUNCTION WITH THE VENDOR'S INSTALLATION AND SITING DRAWING SET. SUBMISSION OF AN ELECTRICAL BID WILL BE CONSIDERED AS EVIDENCE THAT THE VENDOR'S DRAWINGS WERE REVIEWED AND THAT ALL INFORMATION SHOWN HAS BEEN INCLUDED IN THE BID. LATER CLAIMS FOR ADDITIONAL COMPENSATION FOR WORK DESCRIBED ON EITHER SET OF DRAWINGS SHALL NOT BE ACCEPTED.
2. ELECTRICAL DRAWINGS INDICATE THE INSTALLATION CONCEPT FOR THE VENDOR'S EQUIPMENT. HOWEVER, CONTRACTOR SHALL OBTAIN AND BID EQUIPMENT INSTALLATION WITH VENDOR'S INSTALLATION DRAWINGS WHICH INDICATE ADDITIONAL REQUIREMENTS NECESSARY FOR PROPER INSTALLATION.
3. CONTRACTOR SHALL REFER TO INTERIOR ARCHITECTURAL DRAWINGS FOR COORDINATION OF MOUNTING HEIGHTS AND/OR LOCATIONS OF ALL OUTLETS AND WIRING DEVICES.

ELECTRICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH VENDOR'S REPRESENTATIVE FOR CLARIFICATION OF CABLES AND EQUIPMENT TO BE:

- SUPPLIED/INSTALLED BY VENDOR
- SUPPLIED/INSTALLED BY CONTRACTOR
- SUPPLIED BY VENDOR, INSTALLED BY CONTRACTOR
- AVAILABLE THROUGH VENDOR, SUPPLIED/INSTALLED BY CONTRACTOR

COORDINATION NOTES:

1. THIS SHEET SHALL BE USED IN CONJUNCTION WITH VENDOR REFERENCE DRAWINGS FOR CONNECTION REQUIREMENTS, CONDUITS, BOX SIZES, ETC.
2. INFORMATION SHOWN IN THIS DOCUMENT IS AN EXCERPT OF THE INFORMATION SHOWN ON THOSE DRAWINGS.
3. CONTRACTOR SHALL REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR ALL WALL MOUNTED DEVICES AND EQUIPMENT.

CONDUIT AND WIRE SYSTEMS WITHIN THIS PROJECT SHALL COMPLY WITH REQUIREMENTS FOR REDUNDANT GROUNDING PER THE NATIONAL ELECTRICAL CODE ARTICLE 517.13 (A)(B).

LINE LEGEND:

- EXISTING TO REMAIN _____
- EXISTING TO BE REMOVED - - - - -
- NEW WORK THIS SCOPE _____



X-RAY POWER PLAN

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

NOTE: REFER TO SHEETS E-300.00 AND E-400.00 FOR VENDOR'S SYSTEM INFORMATION.

NOTES

1. EMERGENCY STOP FOR ACTIVATION OF SHUNT-TRIP BREAKER. REFER TO POWER RISER DIAGRAM. MAINTAIN EXISTING 120V SHUNT-TRIP CIRCUIT.
2. EXISTING X-RAY IN USE WARNING LIGHT TO REMAIN. VERIFY WITH VENDOR FOR CONTROL OF SIGN. MAINTAIN EXISTING CIRCUIT.
3. VENDOR EQUIPMENT IDENTIFICATION TAG. REFER TO VENDOR REFERENCE DRAWINGS FOR DESCRIPTION.
4. EXISTING SYSTEM MAIN BREAKER TO BE REMOVED AND REPLACED. REFER TO POWER RISER DIAGRAM.
5. CONNECT TO EXISTING CIRCUIT WITH MATCHING CONDUIT AND WIRE SIZES.

LIGHTING SCOPE OF WORK:

EXISTING LIGHT FIXTURES, CIRCUITRY, AND CONTROLS SHALL REMAIN. EXISTING LIGHT FIXTURES SHALL BE REMOUNTED INTO NEW CEILING.

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☐ REVIEWED _____

☒ REVISED _____ 02/20/2026

☐ REVISED _____

☐ REVISED _____

☐ CONSTRUCTION _____

SHEET TITLE
POWER PLAN AND NOTES

DATE: MARCH 19, 2026

PROJECT NO: 1025-01

SHEET NO.

E-200.00

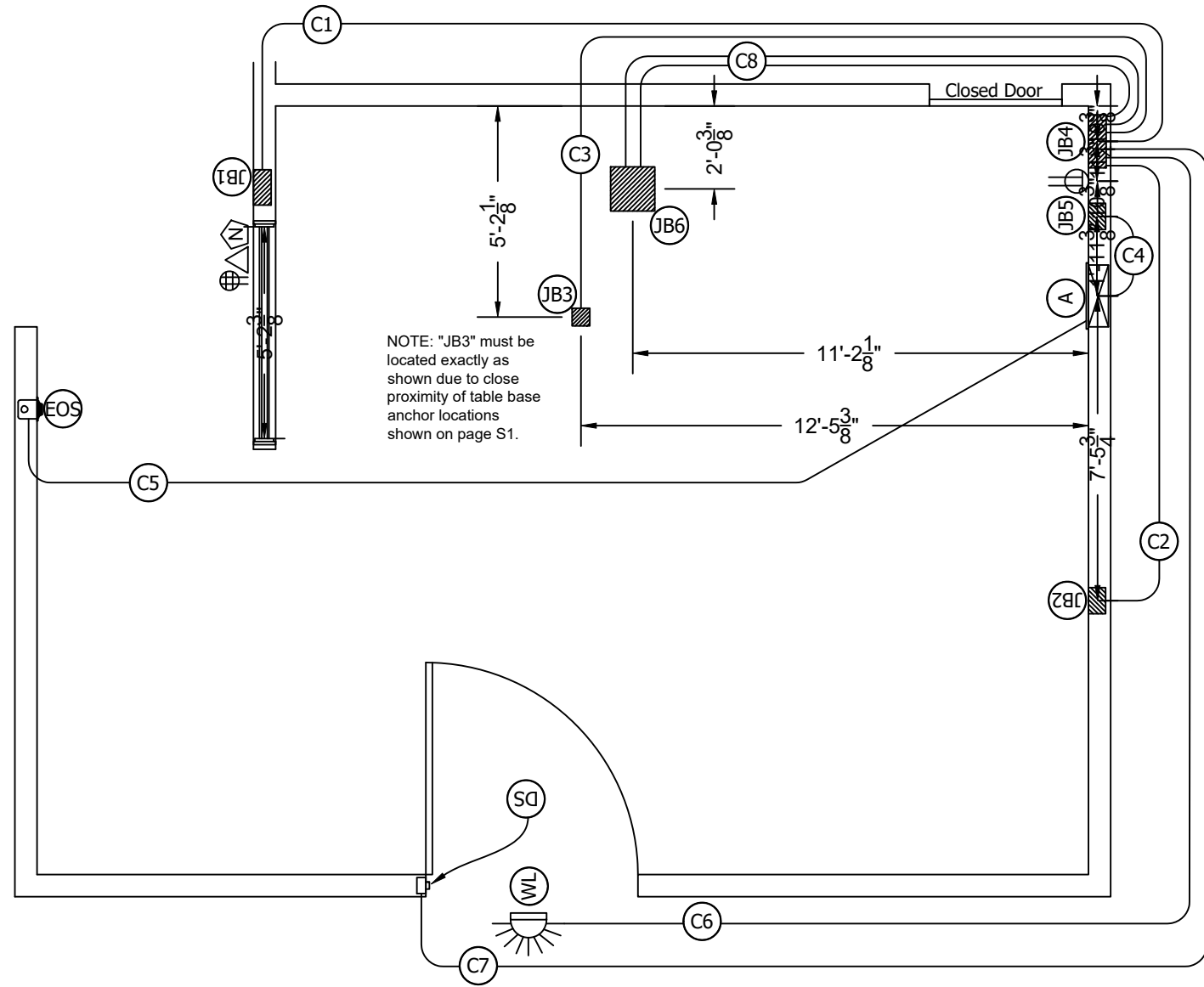
COORDINATION NOTES:

1. THIS SHEET SHALL BE USED IN CONJUNCTION WITH (VENDOR REFERENCE DRAWINGS) FOR CONNECTION REQUIREMENTS, CONDUITS, BOX SIZES, ETC.
2. INFORMATION SHOWN IN THIS DOCUMENT IS AN EXCERPT OF THE INFORMATION SHOWN ON VENDOR'S DRAWINGS.
3. INFORMATION SHOWN ON THIS SHEET IS PROVIDED TO SHOW CONDUIT, WIRE, BOXES, ETC., BETWEEN VENDOR'S EQUIPMENT AND DEVICES. THE ACTUAL PLACEMENT OF THIS EQUIPMENT IS SHOWN ON SHEET E-200.00. THEREFORE, A CLOSE COORDINATION IS REQUIRED BETWEEN THE TWO DRAWINGS TO ASSURE PROPER EXECUTION OF THESE DOCUMENTS.

NOTICE

INFORMATION SHOWN ON THIS SHEET IS COPIED FROM VENDOR'S INSTALLATION DRAWINGS, DATED 11/20/25 AND IS SHOWN FOR REFERENCE ONLY.

NOTE: Conduits are drawn with minimal overlap on the page so they are easy to visually interpret and understand.
NOTE: ALL ACTUAL CONDUITS MUST TAKE MOST DIRECT ROUTE POSSIBLE.
NOTE: All conduits must be rigid and must have sweeping bends for turns.



Provide the following for DR System:

- 115 VAC, 20 Amp, Dedicated Quad Outlet
- VPN Connection or Internet Access for Remote Diagnostics
- Provide (2) RJ-45 Network Connection w/Cat. 6 Cable Outlet

NOT TO SCALE

Dwg No. 2501-06-A-F

drawn by: Joshua Boudreaux

Wright-Patterson AFB - Room 1N62

Samsung GC85A OTC System

Page E1

Date 11/20/25

Generator Specifications

HVAC Environmental Notes:

Temperature must be regulated between 50 - 90 degrees F with relative humidity regulated at 30% to 85% non-condensing.

Heat output of equipment in one area must not affect temperature and humidity regulations in other areas. It is strongly recommended that each area be individually environmentally controlled with a thermostat.

Supply diffusers shall not cause direct air contact on patients or operators.

Typically, this system will operate in a normal office environment.

Spellman ZR75P - 80kw Generator Power Line Requirements

Line Voltage	Recommended Distribution Transformer	Breaker Size	Wire Size "A" to "JB5"	Ground Wire Size	Max. Line Impedance
3 Phase					
380VAC	125kVa	100A	#6	#6	0.09
400VAC	125kVa	100A	#6	#6	0.10
480VAC	125kVa	100A	#6	#6	0.15

*Circuit breaker size has been defined safe to use by Samsung, but breaker size should be determined by customer electrician to meet local and NEC code requirements.

Electrical Contractor to supply L1, L2, L3, and Gnd in appropriate size conduit from "A" Breaker Panel to "JB5". Leave 8' pigtail on "JB5" side.

Wire must be made of copper and flexible.

Grounding: Insulated grounding must conform with current requirements for electrically susceptible patient areas. See Article 517, National Electrical Code.

Line voltage automatic compensation +/- 10% V~.

Maximum line regulation for maximum kVa demand: 6%

NOTE: EC SHALL ENSURE THAT LUGS ARE LARGE ENOUGH TO FACILITATE OVERSIZED INCOMING CABLES REQUIRED BY X-RAY EQUIPMENT. REFER TO INCOMING WIRE SIZE NOTES.

Dwg No. 2501-06-A-F

drawn by: Joshua Boudreaux

Wright-Patterson AFB - Room 1N62

Samsung GC85A OTC System

Page E3

Date 11/20/25

Cable Lengths

STANDARD WIRE LENGTHS PROVIDED GC85 CABINET TO CEILING				
TRANSVERSE	2.5 M	3 M	3.5 M	4 M
LONGITUDINAL				
3 M	8.75 M 28' 8"	8.6 M 28' 2"	7.6 M 24' 11"	7.6 M 24' 11"
3.5 M	8.4 M 27' 6"	8.25 M 27' 0"	7.25 M 23' 9"	7.25 M 23' 9"
4 M	8.4 M 27' 6"	8.25 M 27' 0"	7.25 M 23' 9"	7.25 M 23' 9"
4.5 M	7.85 M 25' 9"	7.7 M 25' 3"	6.7 M 21' 11"	6.7 M 21' 11"
5 M	7.85 M 25' 9"	7.7 M 25' 3"	6.7 M 21' 11"	6.7 M 21' 11"
6.5 M	6.85 M 22' 5"	6.7 M 21' 11"	5.7 M 18' 8"	5.7 M 18' 8"

EXTRA LONG WIRE LENGTHS PROVIDED (MUST BE SPECIFIED WHEN ORDERING EQUIPMENT) GC85 CABINET TO CEILING				
TRANSVERSE	2.5 M	3 M	3.5 M	4 M
LONGITUDINAL				
3 M	13.75 M 45' 1"	13.6 M 44' 7"	12.6 M 41' 4"	12.6 M 41' 4"
3.5 M	13.4 M 43' 11"	13.25 M 43' 5"	12.25 M 40' 2"	12.25 M 40' 2"
4 M	13.4 M 43' 11"	13.25 M 43' 5"	12.25 M 40' 2"	12.25 M 40' 2"
4.5 M	12.85 M 42' 1"	12.7 M 41' 8"	11.7 M 38' 4"	11.7 M 38' 4"
5 M	12.85 M 42' 1"	12.7 M 41' 8"	11.7 M 38' 4"	11.7 M 38' 4"
6.5 M	11.85 M 38' 10"	11.7 M 38' 4"	10.7 M 35' 1"	10.7 M 35' 1"

Dwg No. 2501-06-A-F

drawn by: Joshua Boudreaux

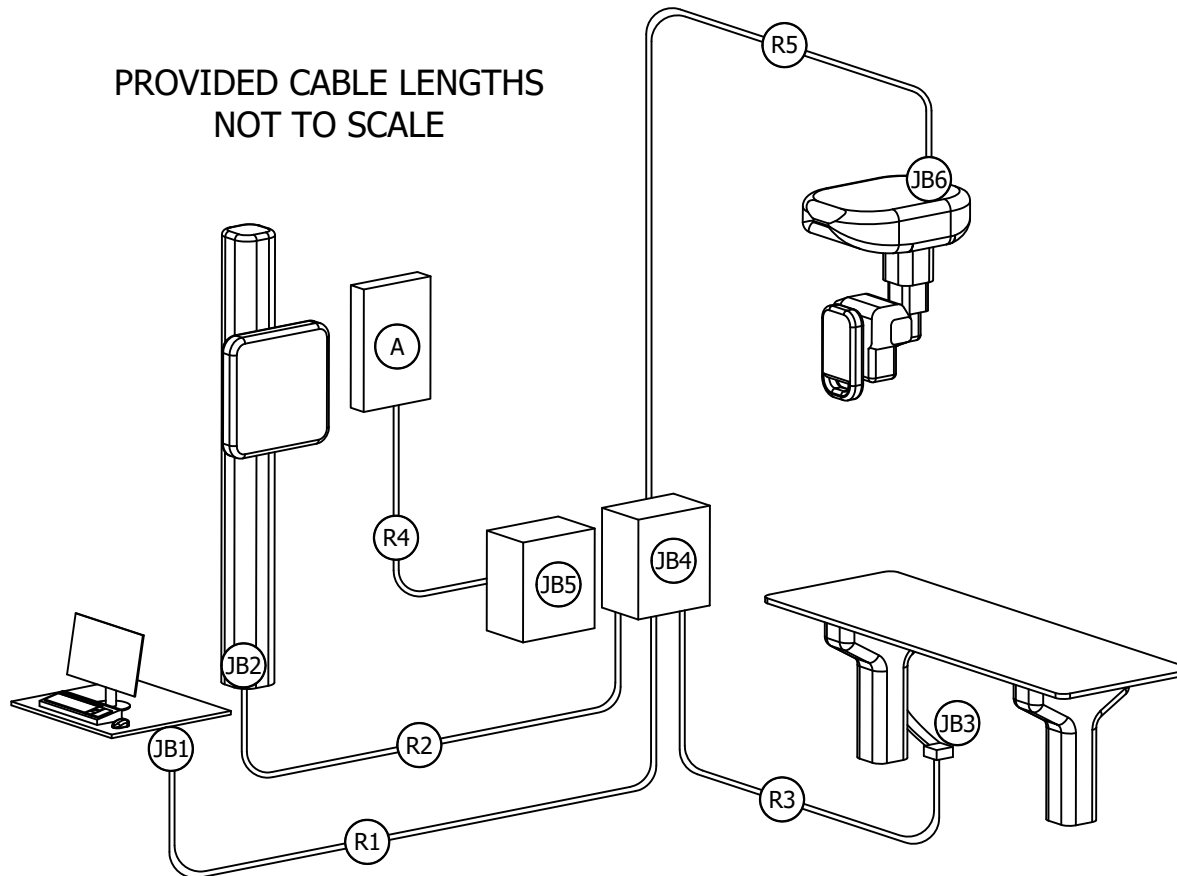
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Samsung GC85A OTC System

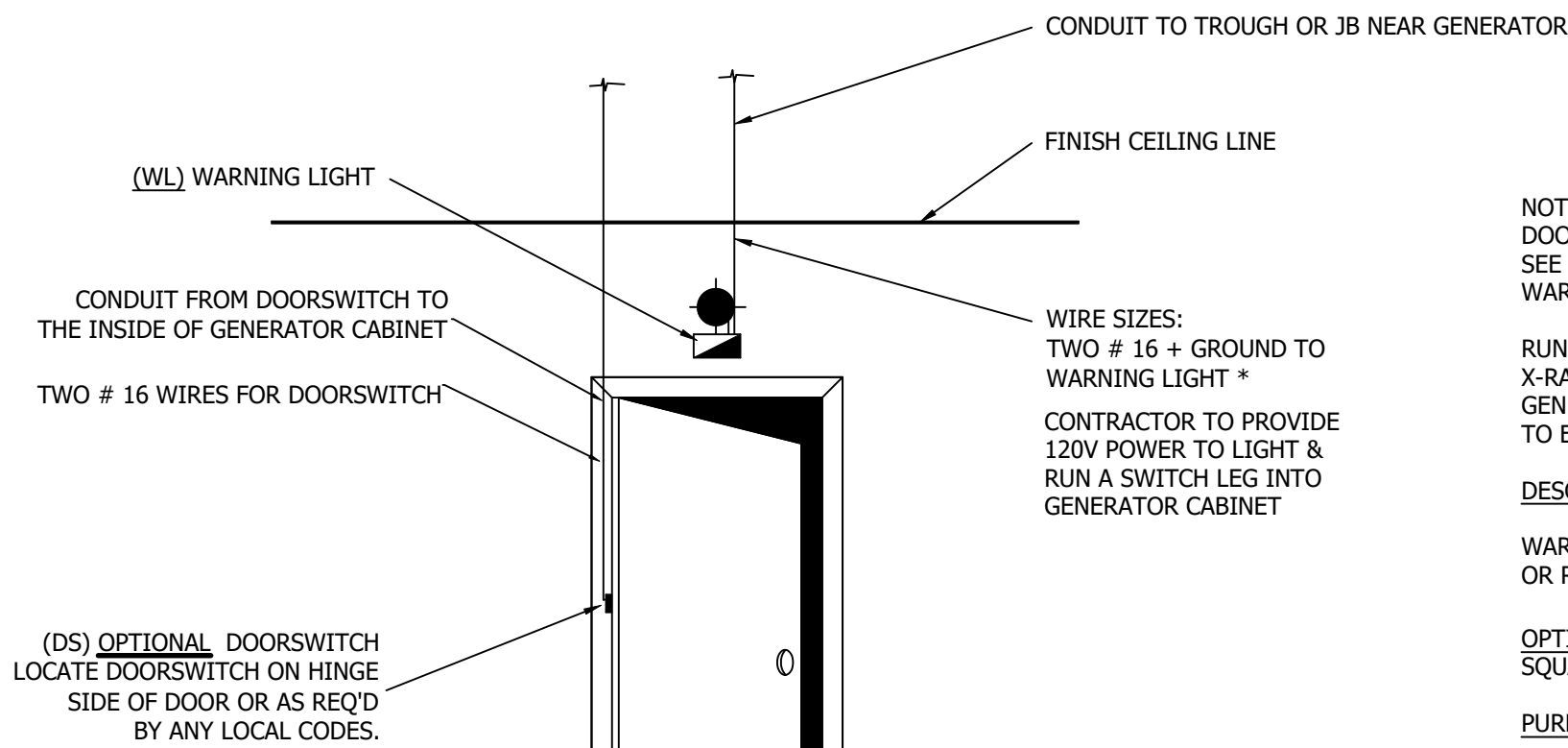
Page E2

Date 11/20/25

PROVIDED CABLE LENGTHS
NOT TO SCALE



WARNING LIGHT DETAIL & (OPTIONAL) DOORSWITCH



NOTE: IF DOUBLE DOORS ARE APPLIED, USE ONE DOORSWITCH FOR EACH DOOR HINGE. SEE TROUGH LAYOUT FOR LOCATION OF WARNING LIGHT/DOORSWITCH LOCATIONS.

RUN POWER AND RETURN FOR WARNING LIGHT TO X-RAY GENERATOR. GENERATOR HAS NORMALLY OPEN CONTACT TO ENABLE WARNING LIGHT.

DESCRIPTION:

WARNING LIGHT = 4" [10cm] STANDARD BOX WITH "X-RAY ON" OR RED WARNING LAMP OVER DOOR.

OPTIONAL DOORSWITCH - INTERRUPT MICROSWITCH IN JAMB, SQUARE "D", TYPE AO, NORMALLY OPEN, 24-120 VOLTS.

PURPOSE OF MICROSWITCH:

TO PREVENT AN X-RAY EXPOSURE FROM OCCURRING ONCE THE DOOR IS OPENED. CUSTOMER TO DETERMINE REQUIREMENT AND LOCATION BASED ON LOCAL CODES.

NOT TO SCALE

Dwg No. 2501-06-A-F

drawn by: Joshua Boudreaux

Wright-Patterson AFB - Room 1N62

Samsung GC85A OTC System

Page E2

Date 11/20/25

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ISSUED FOR: DATE:

REV. 1 DATE: 02/20/2026

REV. 2 DATE: 02/20/2026

REV. 3 DATE: 02/20/2026

REV. 4 DATE: 02/20/2026

REV. 5 DATE: 02/20/2026

REV. 6 DATE: 02/20/2026

REV. 7 DATE: 02/20/2026

REV. 8 DATE: 02/20/2026

REV. 9 DATE: 02/20/2026

REV. 10 DATE: 02/20/2026

REV. 11 DATE: 02/20/2026

REV. 12 DATE: 02/20/2026

REV. 13 DATE: 02/20/2026

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REV. 15 DATE: 02/20/2026

REV. 16 DATE: 02/20/2026

REV. 17 DATE: 02/20/2026

REV. 18 DATE: 02/20/2026

REV. 19 DATE: 02/20/2026

REV. 20 DATE: 02/20/2026

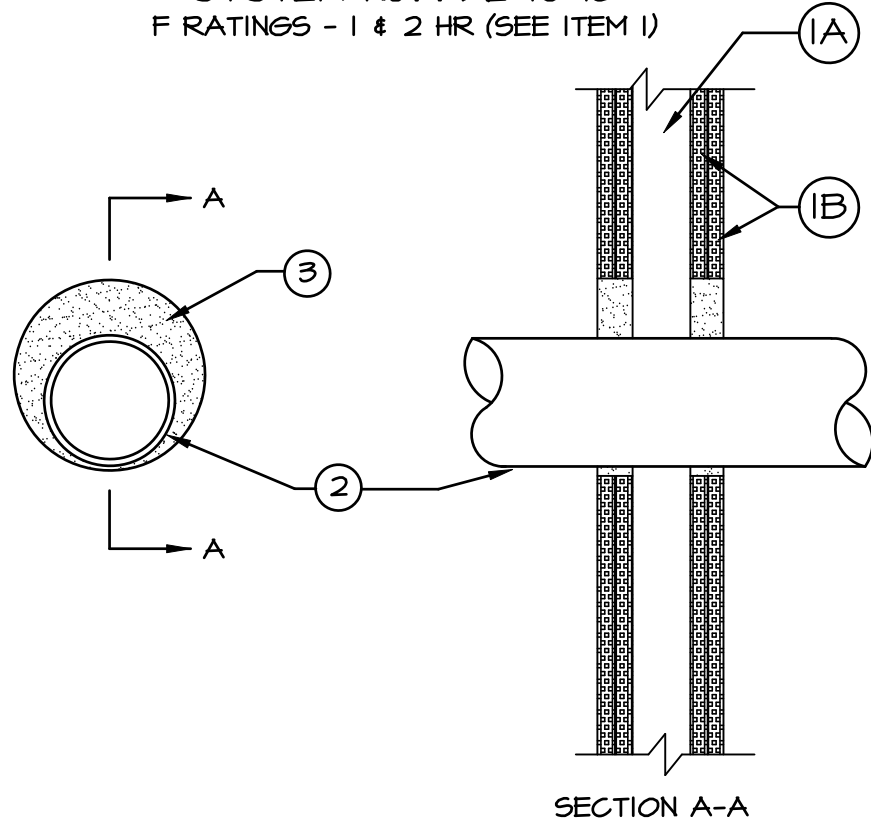
REV. 21 DATE: 02/20/2026

REV. 22 DATE: 02/20/2026

FIRESTOP SYSTEM

THROUGH-PENETRATION DETAIL

SYSTEM No. WL-1098
F RATINGS - 1 & 2 HR (SEE ITEM 1)



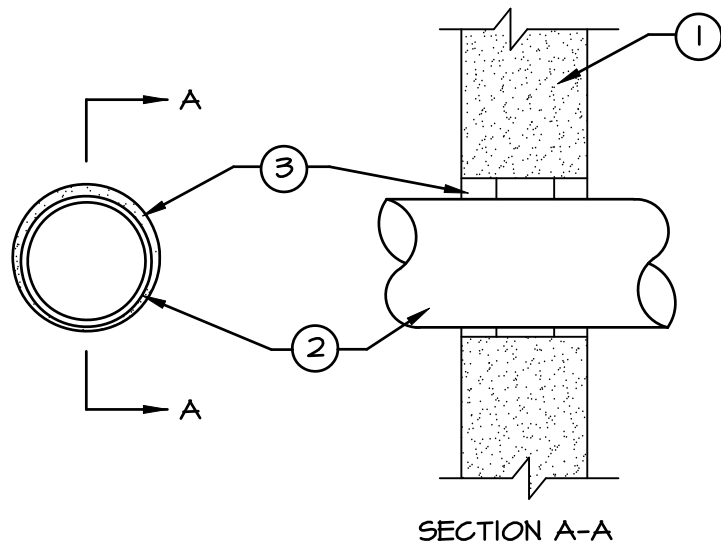
1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNELS STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE AND SPACED MAX 24 IN. O.C.
- B. WALLBOARD, GYPSUM* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 14-1/8 IN. THE HOURLY F RATINGS OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATINGS OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN 3/8 IN. TO MAX 1 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.
- A. STEEL PIPE
- B. IRON PIPE
- C. CONDUIT - NOMINAL 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR STEEL CONDUIT. WHEN EMT OR STEEL CONDUIT IS USED T RATING IS 1/4 HR.
- D. COPPER TUBING
- E. COPPER PIPE
3. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 5/8 IN. AND 1-1/4 IN. THICKNESS OF FILL MATERIAL FOR 1 AND 2 HR RATED WALL ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.
- FIRESTOP SYSTEMS, INC. - 4800DN (RED)
- * BEARING THE UL. CLASSIFICATION MARKINGS.

P6A

FIRESTOP SYSTEM

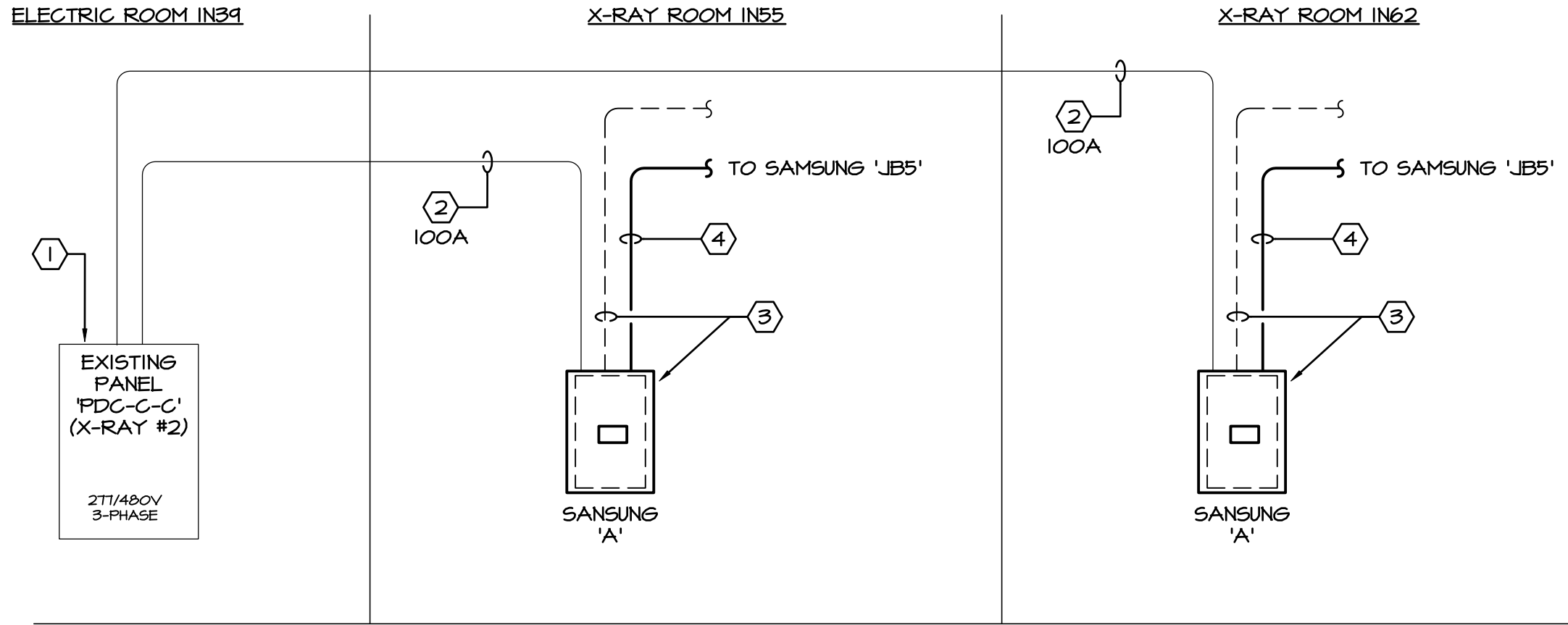
THROUGH-PENETRATION DETAIL

SYSTEM No. W-J-1048
F RATINGS - 2 HR



1. WALL ASSEMBLY - MIN 6-1/8 IN. THICK NORMAL WEIGHT OR LIGHTWEIGHT (100-150PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL. CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 14-1/8 IN. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAME OF MANUFACTURERS.
2. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN 3/8 IN. TO MAX 1 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.
- A. STEEL PIPE
- B. IRON PIPE
- C. CONDUIT - NOMINAL 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR STEEL CONDUIT. WHEN EMT OR STEEL CONDUIT IS USED T RATING IS 1/4 HR.
- D. COPPER TUBING
- E. COPPER PIPE
3. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 1-1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.
- FIRESTOP SYSTEMS, INC. - FLOWSUARD GOLD FIRESTOP SEALANT (RED)
- * BEARING THE UL. CLASSIFICATION MARKINGS.

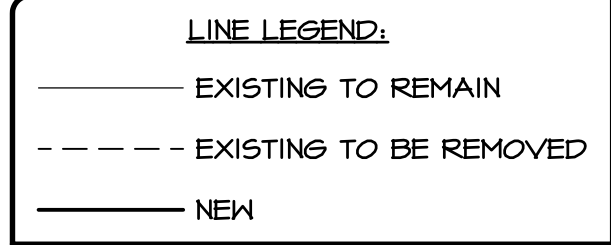
P6C



PARTIAL
POWER RISER DIAGRAM

NO SCALE

1. CLOSELY COORDINATE ALL DEMOLITION WORK WITH OWNER AND GENERAL CONTRACTOR ON SITE.
2. SEAL ALL UNUSED OPENINGS IN ALL EXISTING ELECTRICAL ENCLOSURES AND WIREWAYS.



M7A

NOTES

1. EXISTING DISTRIBUTION PANEL TO REMAIN. MAINTAIN EXISTING 100A, 3-POLE BREAKERS SERVING EXISTING X-RAY SYSTEMS BEING REMOVED, AND REUSE FOR NEW X-RAY SYSTEMS AS SHOWN.
2. EXISTING FEEDER TO REMAIN. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING CONDUCTORS ARE 3 #1, 1 #1 E.G. PROVIDE NEW CONDUCTORS IF EXISTING ARE UNDERSIZED.
3. COMPLETELY REMOVE EXISTING 60 AMP CIRCUIT BREAKER AND FEED TO X-RAY UNIT BEING REMOVED. PROVIDE NEW 100 AMP, 3-POLE, 480V CIRCUIT BREAKER WITH 120V SHUNT-TRIP MECHANISM IN EXISTING FLUSH MOUNTED NEMA 1 ENCLOSURE.
4. 2" CONDUIT WITH 3 #1, 1 #1 E.G. MAKE FINAL CONNECTIONS. REFER TO VENDOR INSTALLATION DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

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88TH MEDICAL GROUP, WRIGHT-PATTERSON AFB
X-RAY EQUIPMENT REPLACEMENT
ROOMS 1N55 & 1N62 - SAMSUNG GC85A VISION +
WRIGHT-PATTERSON MEDICAL CENTER
4881 SUGAR MAPLE DR.
WRIGHT-PATTERSON AFB, OHIO 45433

REVISIONS

ISSUED FOR: DATE: 02/20/2026

REVISION: 02/20/2026

REVISION: 02/20/2026

REVISION: 02/20/2026

REVISION: 02/20/2026

REVISION: 02/20/2026

SHEET TITLE: POWER RISER DIAGRAM AND SCHEDULES

DATE: MARCH 19, 2026

PROJECT NO: 1025-01

SHEET NO:

E-500.00

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LIC #76111 SOUHEIL CHEHAÏEB 26-18

SPECIFICATIONS - ELECTRICAL

DIVISION 26 - ELECTRICAL

SECTION 260500 COMMON WORK

I. GENERAL

- 1.01 The following are minimum requirements and shall govern, except that building laws and/or drawings shall govern when their requirements are in excess thereof.
2. DRAWINGS AND SPECIFICATIONS
- 2.01 The architectural, mechanical, electrical and equipment drawings and specifications are hereby incorporated into and become a part of this Division. This Contractor shall examine all such drawings and specifications and become thoroughly familiar with provisions contained herein and the submission of his bid shall be construed as indicating such knowledge.
- 2.02 Electrical drawings are diagrammatic and are intended to show the approximate locations of equipment and piping. Dimensions given on the plans shall be verified in the field. Drawings may not be scaled to obtain exact dimensions.
- 2.03 The exact locations of apparatus, fixtures, equipment and conduits shall be ascertained from the Owner's representative in the field, and the work shall be laid out accordingly. Should the Contractor fail to ascertain such locations, the work shall be changed at his own expense when so ordered by the Owner. The Owner reserves the right to make minor changes in the location of conduit and equipment up to the time of installation, without additional cost.
- 2.04 The electrical drawings and specifications are intended to supplement each other and any material or labor called for in one shall be furnished and supplied even though not specifically mentioned in both. Labor and/or materials neither shown nor specified, but necessary for the completion and proper functioning of the system, shall be provided by this Contractor.
- 2.05 The work required under these specifications includes all labor, materials, equipment and services necessary to provide lighting and power systems, service entrances, motor controls and connections, branch circuiting, feeders, panels, fixtures, wiring devices, and other items shown on the plans or specified.
- 2.06 When the specification of an item is not identified with a particular area, the item shall pertain to all areas.
- 2.07 This Contractor shall furnish such labor and materials as hereinafter specified and as required to complete all electrical connections in accordance with the manufacturer's requirements for all mechanical equipment and Owner's equipment as shown and/or specified.
3. EXAMINATION OF SITE
- 3.01 Contractor shall visit the site and familiarize himself with existing conditions and satisfy himself as to the nature and scope of work.
4. DEFINITIONS
- 4.01 "Install" shall mean to place, fix in position, secure, anchor, wire, etc., including necessary appurtenances and labor so that equipment or installation will function as specified and intended.
- 4.02 "Furnish" shall mean to purchase and supply equipment or components.
- 4.03 "Provide" shall mean to "furnish and install".
- 4.04 "Or approved equal" shall mean equal in type, design, quality, style, color, etc., as determined by the Engineer/Architect.
5. INTERFERENCES
- 5.01 It shall be the duty of this Contractor to report any interferences between his work and that of any other Contractor to the Owner or Architect as soon as they are discovered. The Owner or Architect will determine which equipment shall be relocated regardless of which was first installed, and his decision shall be final.
6. MATERIALS AND WORKMANSHIP
- 6.01 All work shall be installed in a practical and workmanlike manner by competent workmen, skilled in their branch of the trade.
- 6.02 Unless otherwise specified or indicated on the drawings, all materials shall be new and free from defects.
- 6.03 All material and equipment shall meet or exceed standards specified by UL, NEMA, ANSI and IEEE wherever such standards have been established.
- 6.04 From time-to-time during the operation and at the completion thereof, this Contractor shall remove all debris and excess materials caused by his work and he shall leave the area of the operation broom clean.
- 6.05 All electrical equipment and material shall bear the Underwriter's Laboratories label.
7. SUPPORTS
- 7.01 This Contractor shall furnish and install all angle iron, channel iron, rods, supports or hangers required to install or mount panelboards, switchboards, or any electrical equipment called for on the plans, in these specifications, or as necessary to mount any piece of electrical equipment, material, or device. Conduit, fixtures, or any electrical devices shall not be supported from steel deck, bridging, ceiling, or ceiling support wires.
8. TEMPORARY CONSTRUCTION POWER AND LIGHTING
- 8.01 Sufficient temporary power, during construction, for tools and portable equipment shall be provided by the Electrical Contractor. Contractor shall coordinate with Owner.
9. CODES, LAWS, PERMITS AND INSPECTIONS
- 9.01 Install all work in full accordance with codes, rules and regulations of municipal, city, county, state and public utility, and all other authorities having jurisdiction over the premises. This shall include all requirements of the local Building Code, regulations of the State Department of Industrial Relations, OSHA, ADA (Americans with Disabilities Act), and the requirements of the National Electric code as interpreted by the Local Inspection Division. All these codes, rules, and regulations are hereby incorporated into this specification.
- 9.02 Comply with specification requirements which are in excess of code requirements and not in conflict with same.
- 9.03 The Contractor shall secure all permits and certificates of inspection incidental to the work, required by foregoing authorities. All such certificates shall be delivered to the Owner in duplicate, before final payment on contract will be allowed. The Contractor shall pay all fees, charges and other expenses in connection therewith.
10. FIELD CHANGES (AS BUILT DRAWINGS)
- 10.01 Keep one (1) set of working drawings and shop drawings at the job site for sole purpose of recording all changes made during construction. After completion of the work and before requesting final payment, the above mentioned drawings shall be delivered to the Owner.
11. LABELING AND NAMEPLATES
- 11.01 Permanently label switchboards, panelboards, time switches and safety switches indicating equipment or panels and areas which they serve.
- 11.02 Lighting and appliance panels shall be labeled as shown on drawings.
- 11.03 Electrical Contractor shall furnish and install identification for pull or junction boxes furnished by him.
- 11.04 Identify as to use on face of equipment by means of laminated black and white phenolic label with 3/8" letters engraved through black to white.

11.05 Materials

- A. Nameplates: Engraved three-layer laminated plastic, white letters on a black background.

11.06 Installation

- A. Degrease and clean surfaces to receive nameplates and tape labels.
- B. Install nameplates and tape labels parallel to equipment lines.
- C. Secure nameplates to equipment fronts using screws, rivets or adhesive. Secure nameplates to inside face of recessed panelboard doors in finished locations.
- D. Mark every junction or pull box cover plates with the circuit number(s) of all wires contained therein.

11.07 Wire Identification:

- A. Provide wire markers on each conductor at terminal strips and at final line and load connections. Identify with branch circuit or feeder number of power and lighting circuits, and with control wire number as indicated on equipment manufacturer's shop drawings for control wiring or as drawings indicate.
- B. All wires shall be color coded. Color code branch circuit wiring as follows:
- | | | |
|------------------------|-------|--------|
| 1. Three Phase System: | | |
| Phase A | Black | Brown |
| Phase B | Red | Orange |
| Phase C | Blue | Yellow |
| Neutral | White | Gray |
| Ground | Green | Green |
2. Switched Wires: Other than colors listed above
3. Travelers Between 3-Way Switches: Purple
4. Isolated Ground: Green with Yellow Stripes

12. GUARANTEE

- 12.01 In addition to guarantees of equipment by manufacturer of same, this Contractor shall also guarantee equipment provided by him and shall be held for a period of one (1) year to make good any defects in material and workmanship occurring during this period, at his sole expense. This one year period shall start from the date of final occupancy by Owner.

13. SCOPE OF WORK

- 13.01 Furnish all labor and material necessary to complete the electrical work shown on the drawings, specified herein or required to complete the construction of the building as shown.
- 13.02 The listing herein of article or material, operation or method, required that the Contractor shall provide and install, unless noted to be supplied by others, each item listed of quality or subject to qualification noted. Each operation shall be performed according to standard practice, manufacturer's instructions and conditions stated, providing, therefore, all necessary labor, equipment, and incidentals.
- 13.03 The electrical Contractor shall schedule his work to conform to the progress of the other trades and Contractors and employed on this project.
- 13.04 The electrical work shall include but is not limited to the following:

- A. Complete power and lighting distribution systems including panels and light fixtures, as shown on plans.
- B. Temporary electric service as required for construction.
- C. Testing of all electrical equipment.

14. MANDATORY SHOP DRAWINGS

- 14.01 Submit all required electrical shop drawings.
- 14.02 Shop Drawings shall be submitted for:
- Panels and Switchgear
- All Wiring Devices and Cover Plates

END OF SECTION 260500

SECTION 260514/260533/262126 CONDUCTORS/RACEWAYS/DEVICES

I. CONDUIT

- 1.01 All wire shall be run in accordance with the applicable codes in corrosion resistant, rigid, threaded, metal conduit or electrical metallic tubing (E.M.T.), unless otherwise specifically stated herein.
- A. Conduit below floor slab, exposed to weather, or underground shall be rigid, threaded, galvanized, heavy wall type.
- B. Carlon PVC, Type 40 heavy wall conduit may be used underground below floor slab or pavement in lieu of rigid, threaded, galvanized conduit except where prohibited in NEC 517. PVC schedule 40 conduit shall not be run in or above floor slab. PVC conduit shall terminate below floor slab with rigid, threaded metal conduit adapter. Conduit above slab shall be metal.
- C. A ground conductor shall be supplied in all conduits and raceways. The ground conductor shall be sized per the NEC, or as shown on drawing, whichever is larger.

- 1.02 Conduit and E.M.T. shall be delivered to the building in 10-foot lengths and each length shall have the Underwriter's Laboratories label.

- 1.03 Conduit and E.M.T. shall be run concealed in all finished areas of the building.

- 1.04 E.M.T. connectors and couplers shall be compression type made of steel as manufactured by Thomas & Betts, Steel City, or Appleton. Bends and offsets shall be made with a hickey or power bender without kinking or destroying the smooth bore of the conduit. Paralleled conduits shall run straight and true with offsets uniform and symmetrical. Conduit terminals at boxes and cabinets shall be rigidly secured with locknuts and bushings as required by the National Electrical Code and local electrical code. Insulated bushings shall be used on all conduit 1-1/4" trade size and larger.

- 1.05 Conduit shall be securely fastened in place at no more than 8-foot centers, and hangers, supports or fastenings shall be provided at each conduit, elbow and at the end of each straight run, terminating at a box or cabinet. Conduit shall not be suspended from the ceiling or ceiling suspension wires.

- 1.06 Horizontal and vertical conduit runs shall be supported by one-hole malleable straps or other approved metal device with suitable bolts, expansion shield or beam clamp for mounting to building structure or special brackets. Conduit shall be supported from structural steel or joist and independent of other piping. Do not support conduit from metal roof deck or any other support device of another trade.

- 1.07 Armored cable (BX) or nonmetallic sheathed cable (Romex) shall not be used. No aluminum conduit shall be used.

- 1.08 Only short runs of flexible metal conduit not over 6' in length and having a ground conductor, shall be used for terminal connections to motors and also for electrical equipment where it is not practical to make final connection with rigid conduit. Flexible conduit exposed to weather shall be SealTite.

- 1.09 Exposed conduit and conduit in ceiling space shall be run parallel to the building structure.

- 1.10 Conduit system shall conform to all requirements of the Electrical Code.

2. CONDUCTORS

- 2.01 Sizes of conductors for feeders are given on the drawings and no wire smaller than #12 gauge shall be used for branch lighting or power circuits. All wiring shall have the U.L. label and be of 98% conductivity copper. Aluminum wire or aluminum cable is not acceptable.

- A. The gauge of all wire shall be in accordance with B&S standard.

- 2.02 All wire and cable for branch lighting or small power circuits shall have NEC Type "THHN" or "THHN" 600 volt insulation.

- 2.03 Wire and cable above #12 gauge shall be stranded Type "THHN" insulated for 600 volts

- 2.04 For special conditions, as provided by the Electrical Code, Type "RHH, A.V.A." or other required insulation shall be used.

- 2.05 Where lighting fixtures are used as raceways, 90 degree C, minimum insulated wire shall be used.

3. GROUNDING

- 3.01 This Contractor shall provide, install and connect a complete system of grounding for all equipment and structures. A good mechanical and electrical connection shall be made with approved grounding connectors.

- 3.02 Electrical system and equipment grounds shall comply with the Electrical Code as well as all local and state codes and regulations.

- 3.03 Panels, conduit systems, motor frames, lighting fixtures and other equipment that are part of this installation shall be securely grounded both mechanically and electrically in accordance with all codes.

- 3.04 A ground conductor shall be supplied in ALL conduit. It shall be an insulated, stranded, annealed copper conductor.

4. TOGGLE SWITCHES AND RECEPTACLES

- 4.01 All switches and receptacles color shall be as described in Electrical Requirements - Division 26 on sheet E-100.00.

- 4.02 Acceptable device manufacturers are Leviton, Arrow Hart, Hubbell, or Pass & Seymour.

- 4.03 Refer to Electrical Requirements on Sheet E-100.00 for specification of switches and receptacles.

5. WALL PLATES

- 5.01 Unless otherwise noted, all plates for wall switches, receptacles and telephone outlets shall be as specified in Construction Documents.

- 5.02 All plates shall have full contact with the wall and boxes. Edges shall be parallel to the finished walls and ceilings.

6. OUTLETS

- 6.01 Locations of outlets are shown approximately on the drawings. Contractor shall refer to the shop drawings of the manufacturer of the equipment for the exact location of outlets for fixtures, motors, heaters and their respective control devices. Approximate locations of light fixtures are shown on the drawings.

- 6.02 Outlet boxes for concealed work shall be pressed steel boxes, galvanized and not less than #12 gauge, except floor boxes which shall be cast iron. Each ceiling outlet designated for a lighting fixture shall have a fixture support secured in place with nuts and bolts. Ceiling boxes shall be four inches (4") round and octagonal with lugs and screws for back plates. Wall outlets shall be four inches (4") square by 1-1/2" deep, single or double cover, except gang boxes of similar depth shall be used at locations requiring more than 2-gang.

- 6.03 Outlets on the exterior of the building shall be weatherproof type.

- 6.04 All outlets shall be firmly secured in place. Outlets in finished areas shall be flush with finished ceiling or walls.

7. BRANCH CIRCUIT WIRING

- 7.01 The Electrical Contractor shall provide and connect a complete system of panels, conduits, wire fittings, boxes, supports and all other miscellaneous materials required for equipment as indicated on the plans and ready for operation by the Owner.

- 7.02 All circuits shall be color coded per 26 05 00-II-01.07.

END OF SECTION 260514/260533/262126

SECTION 262416 PANELBOARDS

I. LIGHTING AND APPLIANCE PANELBOARDS

- 1.01 Panels shall be copper bus and shall have 20 amp, single, double, or three pole circuit breakers (capable of interrupting available short circuit current) as required in each branch circuit. Where breakers larger than 20 amperes are required, the sizes are noted on the drawings. Breakers shall be bolt-on, quick-make, quick-break and capable of interchanging 1, 2 or 3-pole units. Multiple units shall be common trip. Provide spare breakers in each panel as shown. All lugs shall be U.L. approved CUL type.

- 1.02 Electrical Contractor shall arrange circuits as near as possible to circuit numbers on the drawings. At finish of job, Electrical Contractor shall take current reading checks of respective phases. Contractor shall rearrange some circuit connections to balance the load across all phases as closely as possible.

- 1.03 Panels shall be mounted as indicated on the drawings. The fronts shall be made of code thickness sheet metal having door cutouts, leaving forms of proper width around the door. Doors shall be provided with an approved lock and shall be keyed alike. Provide new door fronts and keyed doors as required.

- 1.04 Breakers used for lighting circuits shall be switch duty style.

2. GENERAL (FOR ALL PANELS AND PANELBOARDS)

- 2.01 Metal framed card holders with typewritten circuit directory must be provided for each panel. Directory shall be clear and designation shall match identification on equipment. Panelboards (switchboard, distribution, power panels and lighting panels) shall be identified by a label on the switch and/or panel door. Provide engraved laminated phenolic nameplates with 3/8" letters engraved through black to white.

- 2.02 All panels, safety switches, starters and in general, all equipment requiring lugs shall be equipped with solderless type U.L. approved lugs.

- 2.03 Provide all necessary unistrut, channel, backing and supports to mount switchboard and panelboards securely in place.

END OF SECTION 262416

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REVISIONS

ISSUED FOR: DATE:

☐ NO	☐
☐ NO	☐
☒ REVIEW	02/20/2026
☐ COMMENTS	
☐ PERMIT	
☐ CONSTRUCTION	

SHEET TITLE

ELECTRICAL
SPECIFICATIONS

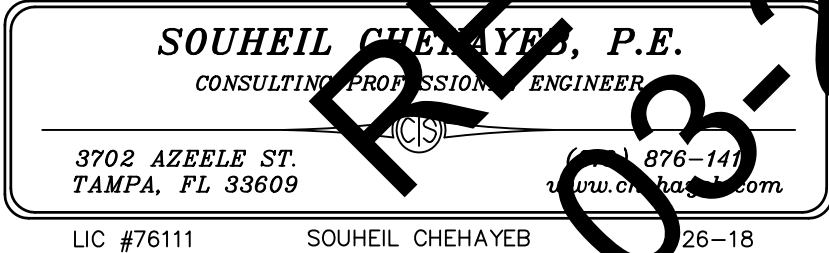
DATE: MAR 19, 2026

PROJECT NO:

1025-01

SHEET NO.

E-600.00



LIC #76111 SOUHEIL CHEHAYEB 26-18

Site Planning Guide For:

Wright-Patterson AFB - Room 1N55 Samsung GC85A OTC System

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These Room Plans are provided by Equipment Vendor for the sole purpose of showing specific information on the equipment to be installed at this facility. The provider of these plans is not responsible for designing or providing room specifications other than what is needed for the successful installation and operation of the Radiographic system.

Dwg No. 2501-05-A-F

drawn by: Joshua Boudreaux

Wright-Patterson AFB - Room 1N55
Samsung GC85A OTC System

Page
C1
Date
11/20/25

General Notes

updated 7/15/25 by cory kimbrough

- Boston Imaging is only responsible for installation of imaging equipment purchased from Boston Imaging or equipment contracted to be relocated with Boston Imaging. All other construction and room preparation, including millwork, cabinets, sinks, backing for apron racks, networking connections, etc. are to be designed and supplied by others.
- Customer and the designated General Contractor are responsible for all work in preparing the x-ray room and surrounding area and all costs involved.
- Customer and the designated Contractor are responsible for the cost and obtaining of all professional fees and all permits, including all building and electrical permits.
- Customer is responsible for obtaining lead shielding requirements from a licensed physicist and/or compliance with local and state regulations.
- Although room lighting is not specified on these plans, it is the responsibility of the Purchaser or the designated Architect or Electrical Contractor to provide dimming lights in the x-ray room and control booth area as well as convenient wall outlets, strategically placed around the room. Contractor must avoid placing LED lights directly above x-ray system. FOR OVERHEAD X-RAY ROOMS, ALL LIGHT FIXTURES, HVAC VENTS, AND FIRE SPRINKLERS MUST BE CLEAR OF ALL CEILING SUPPORTS, which includes the locations where Longitudinal Rails will be installed (see "Structural Layout - Ceiling" page if applicable).
- Ceiling height is indicated on these plans and must be maintained as stated. If for any reason the minimum ceiling height is unobtainable, it is the responsibility of the Customer or the designated Contractor to notify Boston Imaging Project Management.
- All dimensions are from finished surfaces unless otherwise noted. Accuracy of room dimensions are based upon information provided to the Drafter of these plans. The Drafter of these plans will not accept responsibility for any discrepancies, or any additional costs that may be incurred due to inaccurate information.
- When required by state law, the Purchaser is to employ a registered Physicist to certify x-ray system and room shielding at the Purchaser's expense.
- All construction shall comply with all building codes that have jurisdiction.
- The Purchaser, at their expense, shall arrange to have furnished and installed any plumbing, wall, floor or ceiling reinforcing Unistrut, electrical conduit, wire, main switches, panel boards, junction boxes and cover plates, bushings, wire or cable duct or trough specified or required for the satisfactory installation of the x-ray equipment. **Locations of electrical boxes may vary slightly due to stud locations. If dimensions aren't specified, locations are to be within close proximity of item.**
- These drawings are supplied to suggest location of x-ray equipment and associated apparatus, electrical wiring details and room arrangements. In preparing these plans, every effort has been made to conform details to the actual equipment expected to be installed. The provider of these plans cannot accept responsibility for any changes made to the equipment or the room or for any damages resulting therefrom. Actual construction drawings should be provided by the Purchaser's Architect or General Contractor.
- Boston Imaging assumes no responsibility for any construction costs, whether or not related to the installation of any x-ray equipment. No work may be performed or any materials furnished at the expense of Boston Imaging without a prior authorized, signed purchase order. Equipment listed on Sales quote supersedes the Equipment listed on the Equipment Legend on these plans.

Dwg No. 2501-05-A-F

drawn by: Joshua Boudreaux

Wright-Patterson AFB - Room 1N55
Samsung GC85A OTC System

Page

N1

Date

11/20/25

Site Readiness Requirements

updated 7/15/25 by cory kimbrough

The following general conditions are required prior to the delivery of equipment. These conditions will ensure the best possible environment for the installation and protection of computers, electronics, x-ray tubes, image intensifiers, cameras, monitors, and mechanical equipment. Please note: if these conditions are not met at the time of delivery, the Boston Imaging Project Manager should reschedule the installation start date.

- All necessary approvals, permitting, and shielding reviews required by either state or local governing agencies will be the Customer's responsibility. Some states will not allow the installation to begin without prior approval.
- Power available at the designated power cabinet prior to delivery of equipment.
- Walls to be sanded, primed and painted, floor covering installed, ceiling completed, doors hung with finish applied and lead barriers installed.
- HVAC complete, functioning properly and tested prior to equipment delivery.
- Exam room floor under all floor mounted x-ray equipment shall be flat and level to within 0.125" in all directions in a 10' span.
- All structural backing boards, reinforcement plates, and overhead grid installed as designated in Site Planning Guide. It will be the responsibility of the Customer's Design Engineer to furnish recommended methods of anchoring and attachment for applicable Boston Imaging x-ray equipment.
- All cable troughs, junction boxes, conduits and raceways correctly sized and installed according to the provided Site Planning Guide. All lighting installed and functioning at the time of delivery. **ALL FLUSH MOUNTED JUNCTION BOXES SHOULD HAVE OVERSIZED COVERS AND BE PAINTED TO MATCH THE WALL.** Surface-mounted junction boxes should also be painted to match the wall.
- Room and immediate vicinity to be dust free and remain so for the duration of the installation.
- Customer supplied PACS, laser imagers, cameras, computers, printers, routers, networks, and network drops are to be installed and verified operational prior to Boston Imaging installing image acquisition and processing hardware and software. Additionally, firewalls, backup power sources, virus software and other security software and hardware are the Customer's responsibility to acquire, install, and maintain current (unless prior arrangements have been made for Boston Imaging to provide this equipment). Boston Imaging will connect to customer installed network drops but assumes no responsibility for proper operation of Customer's network and associated hardware. It is strongly suggested that the Customer retain an IT person to be available for network related issues that may arise during its useful life. Boston Imaging is not responsible for computer malfunctions due to Customer or patient's unauthorized use or installation of computer programs for their personal use.
- Boston Imaging supplied servers are not allowed to have updates installed without the prior consent of Boston Imaging.
- Telephone service and VPN access must be installed and operational prior to installation for remote support.
- It will be the Customer's responsibility to provide a clear and unobstructed pathway for delivery of diagnostic devices, including room entry.
- Removal of old equipment must be quoted by service. Boston Imaging does not dispose of transformers or tubes. Third party disposal service companies are available upon request.

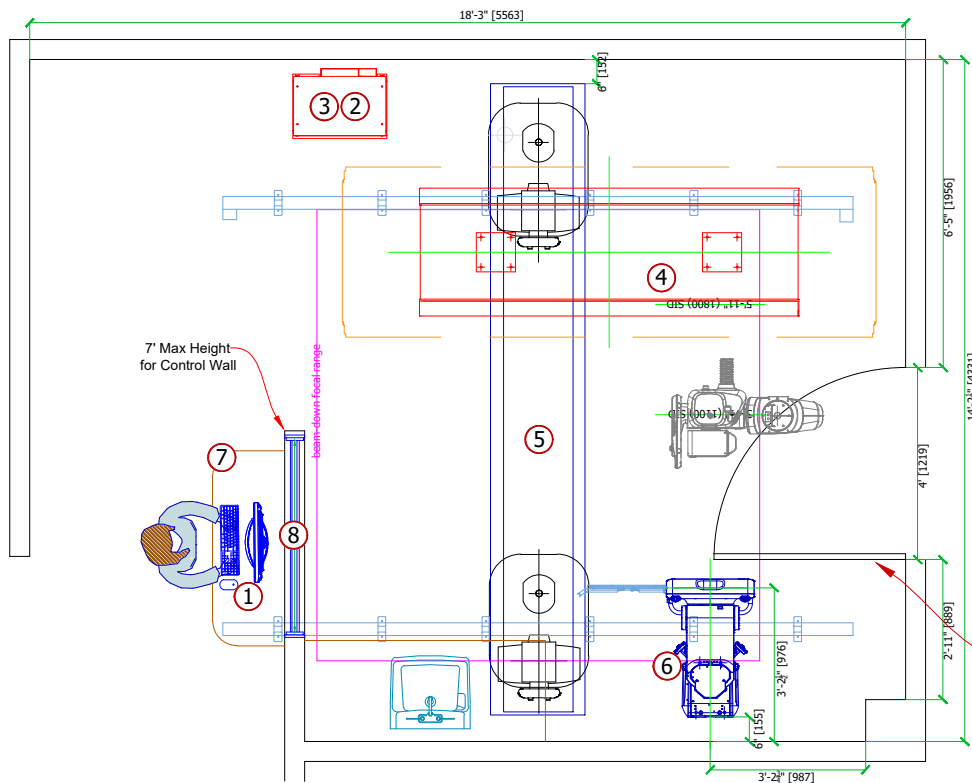
Dwg No. 2501-05-A-F

drawn by: Joshua Boudreaux

Wright-Patterson AFB - Room 1N55
Samsung GC85A OTC System

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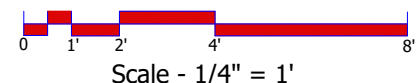
EQUIPMENT LEGEND							
<u>FUTURE</u>							
<u>EXISTING</u>							
<u>INSTALLED BY CUSTOMER/CONTRACTOR</u>							
<u>FURNISHED BY CUSTOMER/CONTRACTOR</u>							
<u>INSTALLED BY BOSTON IMAGING</u>							
<u>FURNISHED BY BOSTON IMAGING</u>							
ITEM	DESCRIPTION DIM: W X D X H	WT. (LBS)	BTU'S /HR				
①	Samsung GC85A DR Workstation	N/A	300.3	•	•		
②	Samsung GC85A System Cabinet DIM: 23.23" x 16.93" x 17.00"	264	549.4	•	•		
③	Spellman ZR75P - 80kw Generator Cabinet DIM: 23.46" x 16.14" x 18.90"			•	•		
④	Samsung GC85A Elev. 4-Way Float Top Table DIM: 96" x 32" x 36"	462	235.4	•	•		
⑤	Samsung GC85A OTC DIM: 4M(L) x 4M(T) (157.48" x 157.48" x Var")	798-928	392.4	•	•		
⑥	Samsung GC85A Premium Tilting Wall Stand Right or Left Load to be specified on sales quote DIM: 25" x 32" x 87"	396	196.2	•	•		
⑦	Countertop with PC shelf below - to be designed and installed by customer/contractor				•	•	
⑧	Lead Window DIM: Determined by customer				•	•	



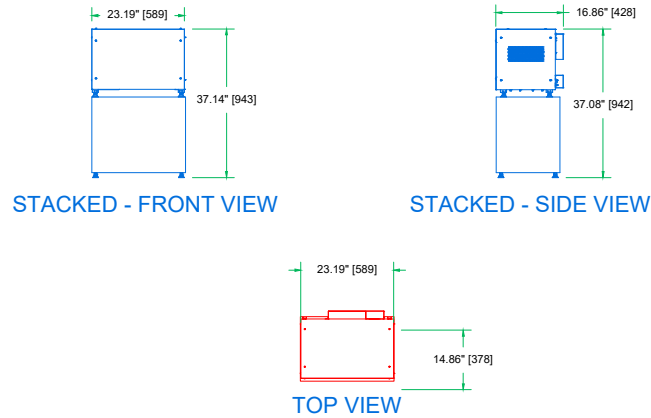
NOTE: Door must have a 90 degree stop to avoid hitting wall stand.

Samsung GC85A Overhead System
Recommended Ceiling Height: 9'-2 $\frac{1}{4}$ " - 9'-4 $\frac{3}{16}$ "
Min - Max Ceiling Height: 8'-8 $\frac{3}{8}$ " - 10'-0 $\frac{1}{4}$ "

NOTE: Ceiling heights outside of the recommended range require Samsung review and approval.

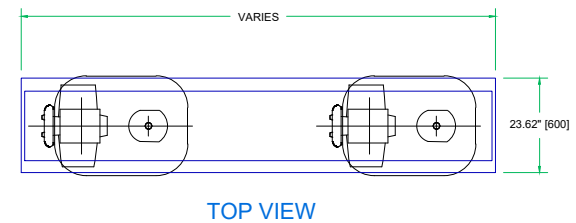
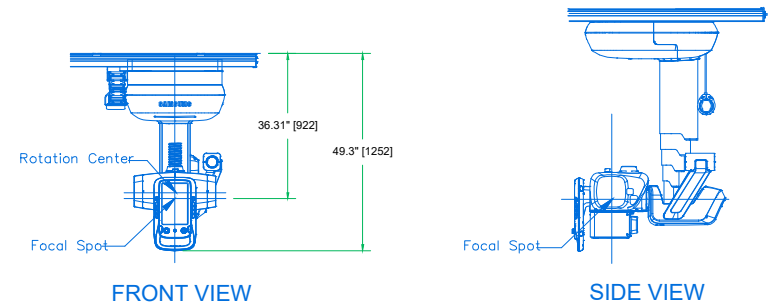


Generator & System Cabinet



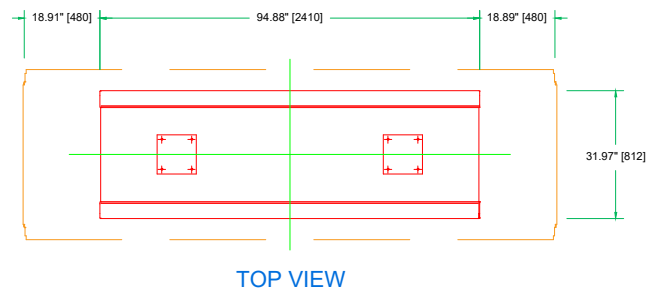
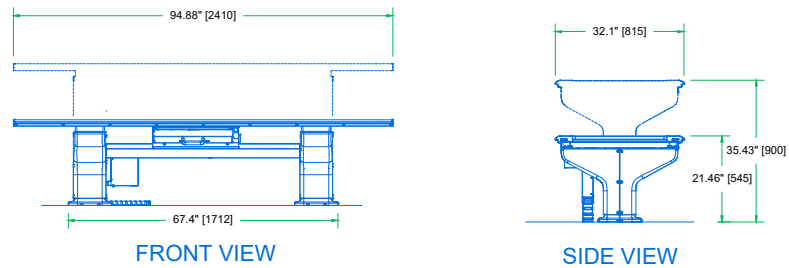
✓CK240313

Tube Head Unit Detail (GC85A)



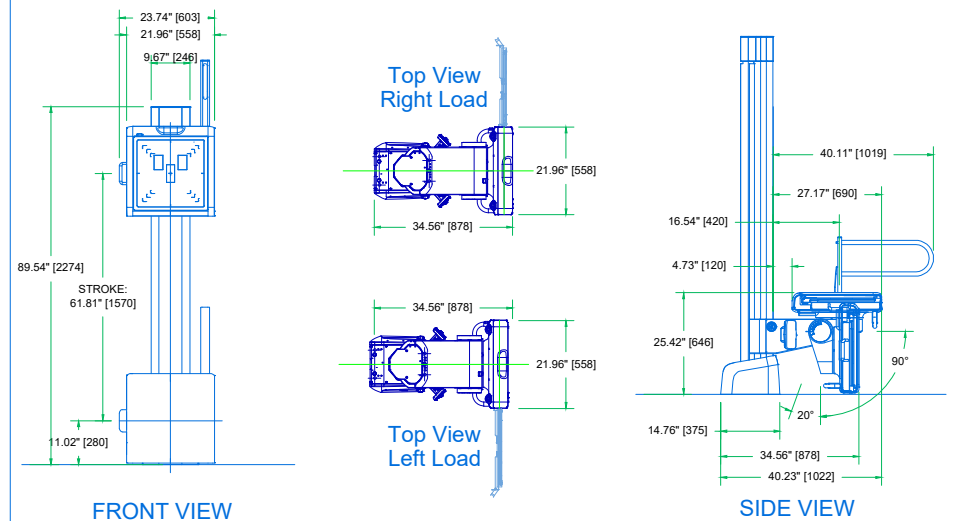
✓CK251020

GC85A Elevating Table Detail



✓CK251020

GC85A Premium Wallstand Detail



✓CK251020

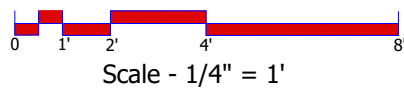
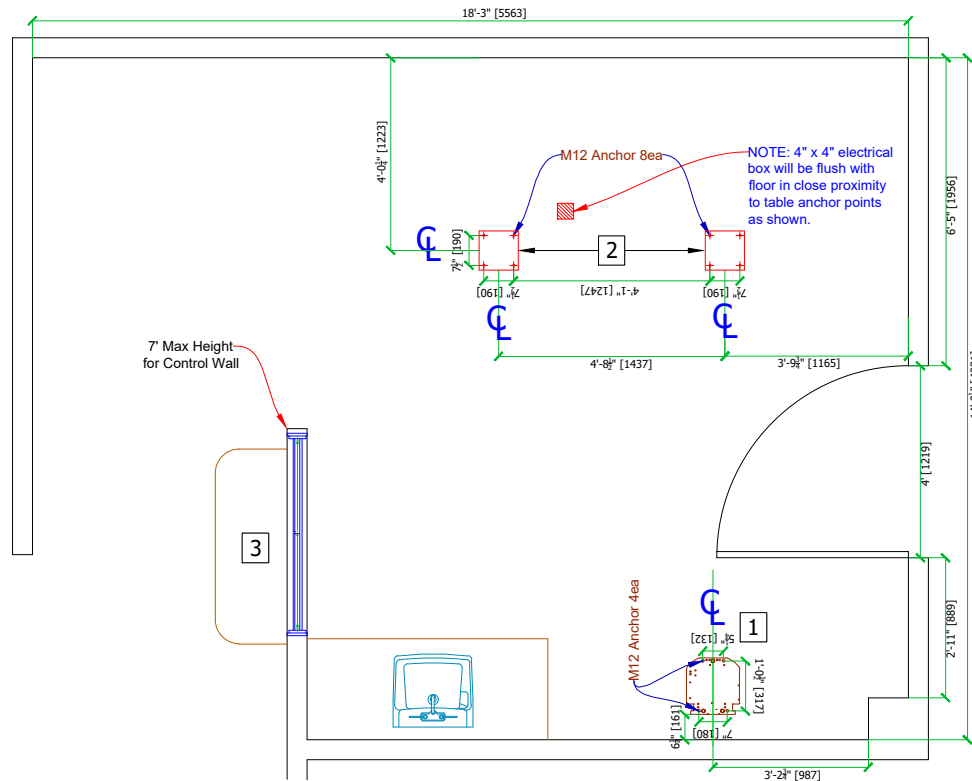
Dwg No. 2501-05-A-F

drawn by: Joshua Boudreaux

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Structural Layout - Floor & Wall



STRUCTURAL SUPPORT LEGEND	
FUTURE	
EXISTING	
INSTALLED BY CUSTOMER/CONTRACTOR	
FURNISHED BY CUSTOMER/CONTRACTOR	
INSTALLED BY BOSTON IMAGING	
FURNISHED BY BOSTON IMAGING	
ITEM	DESCRIPTION
1	Wall Stand Base Floor Bolt Locations.
2	Table Base Floor Bolt Locations.
3	Counter Top with bottom PC shelf to be designed and installed by customer/contractor.

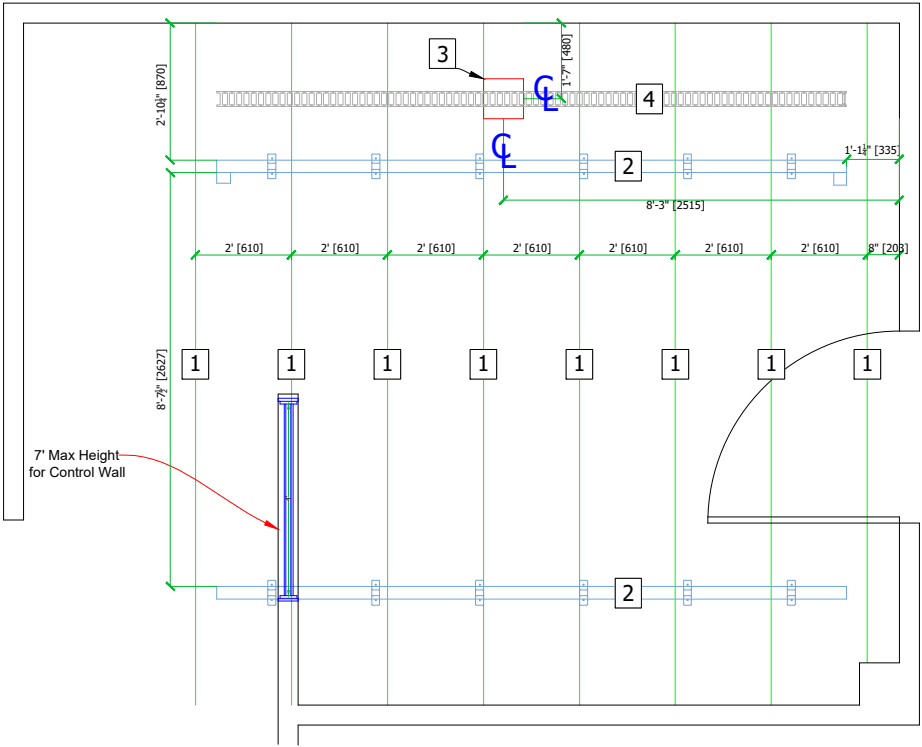
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Structural Layout - Ceiling



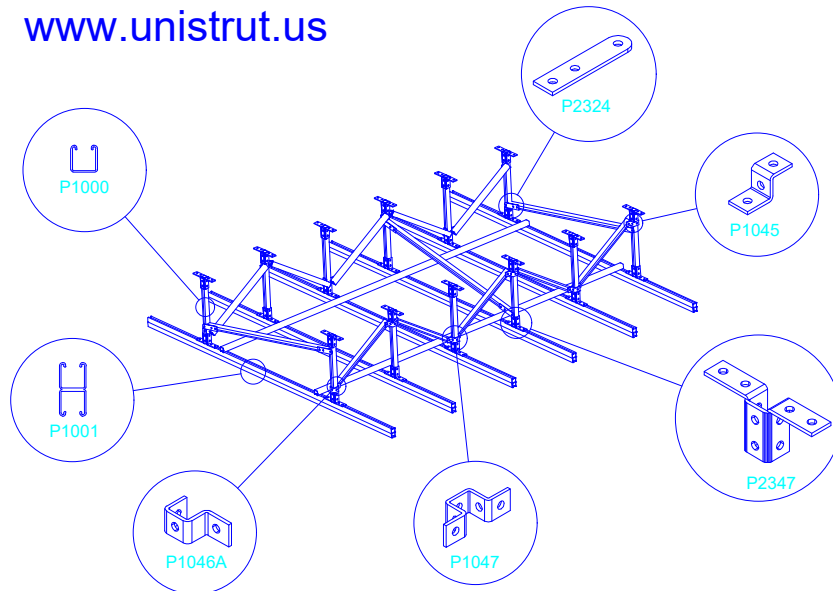
STRUCTURAL SUPPORT LEGEND	
FUTURE	
EXISTING	
INSTALLED BY CUSTOMER/CONTRACTOR	
FURNISHED BY CUSTOMER/CONTRACTOR	
INSTALLED BY BOSTON IMAGING	
FURNISHED BY BOSTON IMAGING	
ITEM	DESCRIPTION
1	Existing Unistrut Support, located and spaced as shown. See "Unistrut & Ceiling Detail" Page for more info. NOTE: Unistrut to provide (2) 8mm x 30mm mounting bolts and (2) 8mm nuts at each mounting location for installation of longitudinal rails (ITEM 2)
2	Manufacturer supplied longitudinal rails - to be secured to Unistrut support (ITEM 1).
3	Unistrut design must accommodate 10" x 10" x 10" electrical box, which will be flush mounted in the ceiling (furnished/installed by Electrical Contractor).
4	Equipment Cable Veyor - must have unobstructed access as it travels along ceiling. See "Ceiling Exclusion Zones" page.

NOTE: See "Ceiling Exclusion Zones" page for more info. All light fixtures, HVAC vents and fire sprinklers must be clear of all ceiling support. Architect to specify 2' x 2' flush mounted lift out ceiling tiles. A minimum of 12" above ceiling tiles is required for service access of the equipment.

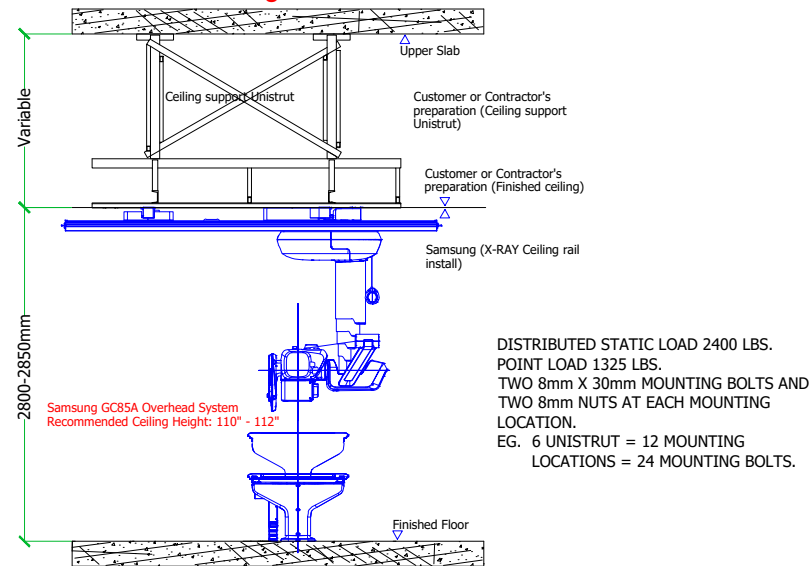
NOTE: Ceiling structural support for the Samsung GC85A must be able to withstand a dynamic load of 1.25 tons.

CEILING RAIL UNISTRUT DETAILS

www.unistrut.us



Samsung GC85A



DRAWING FOR REFERENCE ONLY
ACTUAL DESIGN, PARTS AND PART NUMBERS ARE FACILITY DEPENDENT

Unistrut & Ceiling Detail

STRUCTURAL NOTES:

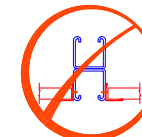
- THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF CEILING MOUNTED X-RAY AND ANCILLARY EQUIPMENT.
- THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RIGID, AND BRACED FOR SWAY WITH A MAXIMUM DEFLECTION OF .0625" AT ANY GIVEN POINT.
- ALL OVERHEAD STRUCTURAL SUPPORT MEMBERS SHALL BE TRUE, SQUARE, LEVEL, PARALLEL, AND COPLANAR IN RESPECT TO EACH OTHER WITH ALL HORIZONTAL STRUCTURAL SUPPORT MEMBERS TO BE LOCATED AND SET WITH A WATER LEVEL OR TRANSIT.
- ANY STRUCTURAL DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON STANDARD BUILDING PRACTICES AND ARE NOT INTENDED FOR CONSTRUCTION USE. ACTUAL CONSTRUCTION DETAILS, LOADING FACTORS, SPECIFICATIONS, AND ALL CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE HOSPITAL'S EXPENSE.
- METHODS OF SUPPORT FOR THE STEELWORK THAT WILL PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE CONSTRUCTION SHOULD BE FAVORED. DO NOT USE SCREW ANCHORS IN DIRECT TENSION.
- DO NOT USE SCREWS TO FASTEN CEILING GRID TO UNISTRUT. AN ALTERNATE METHOD SUCH AS TACK OR SPOT WELDING, ETC. SHOULD BE CONSIDERED. ALL LIGHTS, SPRINKLER HEADS AND ANY CEILING PIECE MUST BE FLUSH WITH THE FINISHED CEILING TO AVOID MOVEMENT OF OTC.
- ALL UNISTRUT MEMBERS HAVE BEEN COORDINATED WITH THE X-RAY EQUIPMENT. ANY DEVIATION FROM THIS PLAN MUST BE APPROVED BY SIGNATURE THROUGH THE EQUIPMENT VENDOR.
- THE EQUIPMENT VENDOR OR VENDOR'S DESIGNER IS IN NO WAY RESPONSIBLE FOR THE DESIGN OR INSTALLATION OF THE SUPPORT STRUCTURE FOR ANY OVERHEAD CEILING MOUNTED EQUIPMENT. THIS IS THE RESPONSIBILITY OF THE PURCHASER OR PURCHASER'S CONTRACTOR. IT IS VERY STRONGLY RECOMMENDED THAT A STRUCTURAL ENGINEER IN CONJUNCTION WITH UNISTRUT REPRESENTATIVES COORDINATE THE UNISTRUT SUPPORT STRUCTURE.
- UNISTRUT CHANNEL TO BE FLUSH MOUNTED IN FINISHED CEILING UNLESS OTHERWISE SPECIFIED ON THESE DRAWINGS. ALL EXPOSED CHANNELS SHALL BE PAINTED THE SAME COLOR AS THE FINISHED CEILING. CONTRACTOR TO SUPPLY AND INSTALL CLOSURE STRIPS IN ALL EXPOSED UNISTRUT.



DO NOT MOUNT TILE LOWER THAN UNISTRUT. IF TILE IS NOT FLUSH MOUNT, MOUNT IN SUCH A WAY THAT THE LOWEST PART OF TILE IS FLUSH WITH UNISTRUT RAIL.



DO NOT DRILL INTO OR ATTACH ANY FASTENERS TO UNISTRUT UNLESS FIRST APPROVED BY A LICENSED STRUCTURAL ENGINEER.



NOT TO SCALE

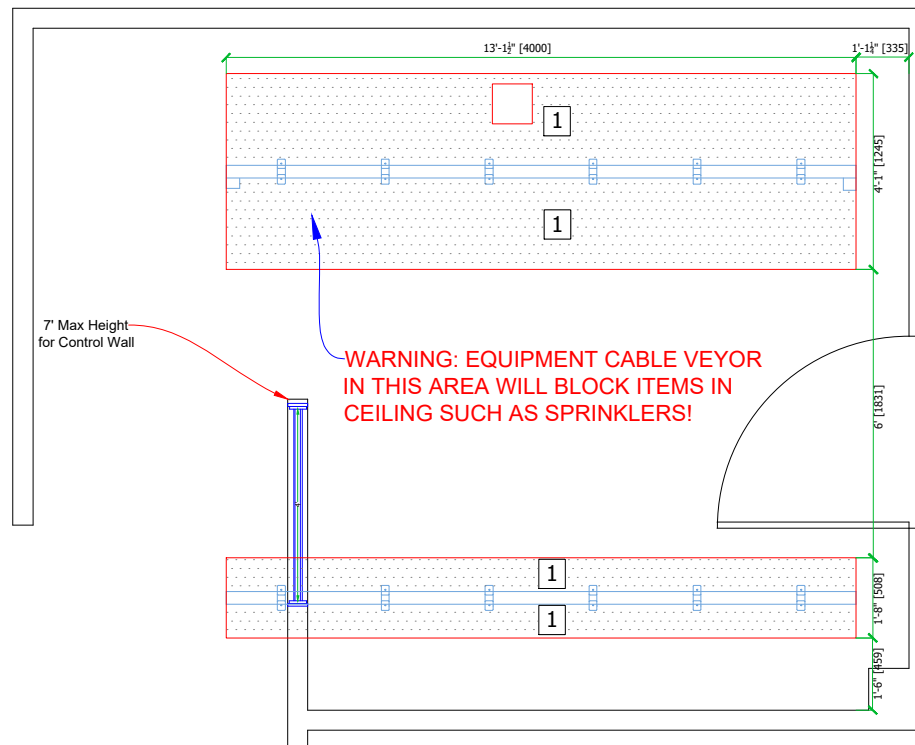
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Ceiling Exclusion Zones



ITEM	DESCRIPTION
1	CLEAR ZONES - NOTHING IN THESE AREAS SUCH AS FIRE DETECTORS, SPRINKLERS, LIGHTS, ETC. WITHOUT PRIOR WRITTEN CONSENT OF EQUIPMENT SUPPLIER. SOME EXCEPTIONS MAY BE POSSIBLE.
NOTE: OTHER AREAS OUTSIDE OF CLEAR ZONES MUST HAVE ONLY FLUSH MOUNTED DEVICES TO ALLOW FULL RANGE OF EQUIPMENT TRAVEL.	

CAUTION: PROTRUDING DEVICES; SPRINKLER HEADS, LIGHTS, AC VENTS, ETC. MAY DAMAGE OR BE DAMAGED BY INSTALLED EQUIPMENT IN OPERATION. ARCHITECT TO SPECIFY 2' BY 2' FLUSH MOUNT CEILING TILES.

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drawn by: Joshua Boudreaux

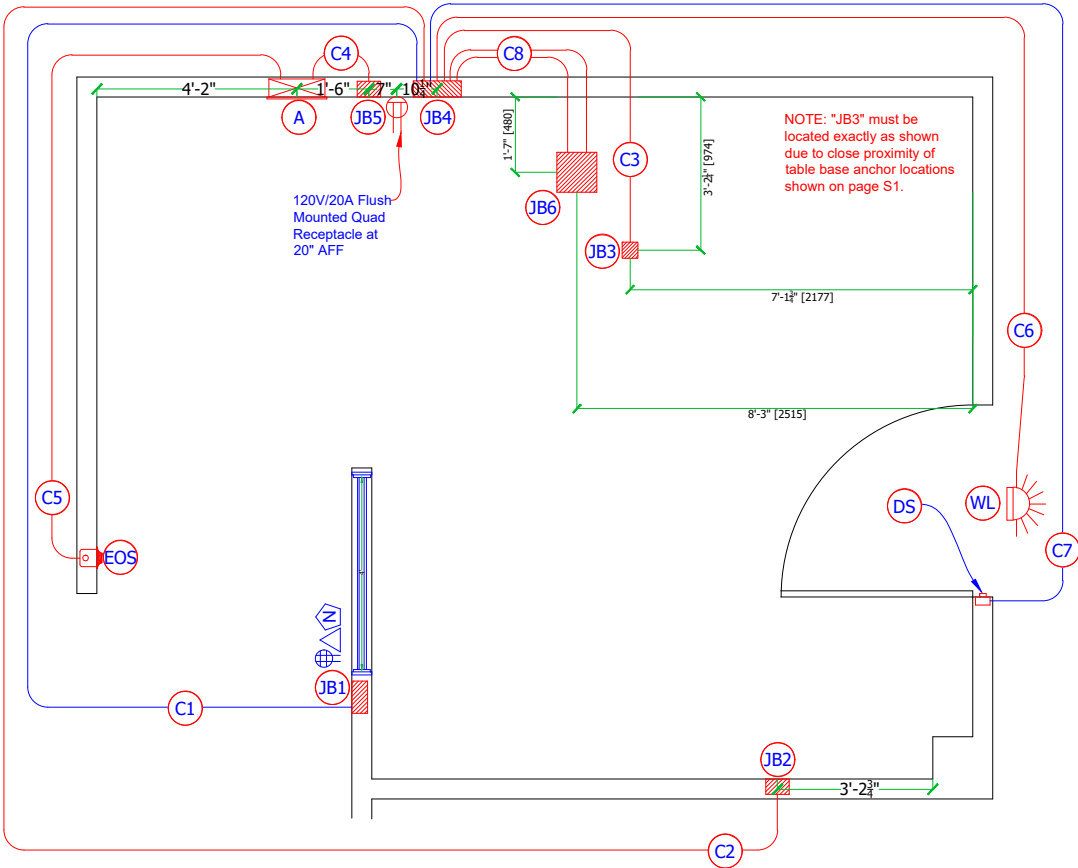
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NOTE: Conduits are drawn with minimal overlap on the page so they are easy to visually interpret and understand.

NOTE: ALL ACTUAL CONDUITS MUST TAKE MOST DIRECT ROUTE POSSIBLE.

NOTE: All conduits must be rigid and must have sweeping bends for turns.



Provide the following for DR System:

- 115 VAC, 20 Amp, Dedicated Quad Outlet
- VPN Connection or Internet Access for Remote Diagnostics
- Provide (2) RJ-45 Network Connection w/Cat. 6 Cable Outlet

ELECTRICAL LEGEND				
FUTURE				
EXISTING				
INSTALLED BY CUSTOMER/CONTRACTOR				
FURNISHED BY CUSTOMER/CONTRACTOR				
INSTALLED BY BOSTON IMAGING				
FURNISHED BY BOSTON IMAGING				
ITEM	DESCRIPTION			
A	BREAKER ENCLOSURE - 480VAC - 3 PHASE/SHUNT TRIP TYPE BASED ON SPECS ON "GENERATOR SPECIFICATIONS" PAGE.			
JB1	8" x 8" x 4" DEEP JUNCTION BOX, 18" AFF, FLUSH MOUNTED IN WALL WHERE SHOWN. PROVIDE FLUSH MOUNT COVER PLATE.			
JB2	6" x 6" x 4" DEEP JUNCTION BOX, FLUSH MOUNTED IN WALL, AT OR JUST ABOVE FLOOR LEVEL. PROVIDE A BLANK FLUSH MOUNT COVER PLATE.			
JB3	4" x 4" x 4" DEEP JUNCTION BOX, FLUSH MOUNTED IN FINISHED FLOOR. PROVIDE A BLANK FLUSH MOUNT COVER PLATE.			
JB4	12" x 12" x 4" DEEP JUNCTION BOX, 9" AFF, FLUSH MOUNTED IN WALL WHERE SHOWN. PROVIDE A BLANK FLUSH MOUNT COVER PLATE.			
JB5	6" x 12" x 4" DEEP JUNCTION BOX, 9" AFF, FLUSH MOUNTED IN WALL WHERE SHOWN. EC TO PROVIDE TERMINAL BLOCK INSIDE BOX TO CONNECT TO SYSTEM CABINET. PROVIDE A FLUSH MOUNT COVER PLATE. PROVIDE 1 1/2" FLEX CONDUIT, 6' IN LENGTH, AND RUN FROM "JB5" TO REAR OF GENERATOR CABINET USING (2) 90 DEGREE ELBOWS.			
JB6	10" x 10" x 10" DEEP JUNCTION BOX, FLUSH MOUNTED IN CEILING IN LOCATION SHOWN. PROVIDE A BLANK OVERSIZED COVER FOR CABLE ACCESS. BOX MUST MOUNT NEXT TO UNISTRUT AND NOT INTERFERE WITH UNISTRUT OPERATION. BOX MUST NOT HANG BELOW UNISTRUT. SEE "CEILING EXCLUSION ZONES" PAGE.			
C1	2" CONDUIT RUN FROM "JB1" TO "JB4". LEAVE PULL STRINGS. SMOOTH CONDUIT PREFERRED. TOTAL CONDUIT RUN MUST NOT EXCEED 61'-8" (SEE "CABLE LENGTHS" PAGE).			
C2	2 1/2" CONDUIT RUN FROM "JB2" TO "JB4". LEAVE PULL STRINGS. SMOOTH CONDUIT PREFERRED. TOTAL CONDUIT RUN MUST NOT EXCEED 34'-9" (SEE "CABLE LENGTHS" PAGE).			
C3	2 1/2" CONDUIT RUN IN OR UNDER FLOOR, FROM "JB3" TO "JB4". LEAVE PULL STRINGS. SMOOTH CONDUIT PREFERRED. TOTAL CONDUIT RUN MUST NOT EXCEED 31'-2" (SEE "CABLE LENGTHS" PAGE)			
C4	EC TO SUPPLY POWER INTERCONNECT PRIOR TO EQUIPMENT INSTALLATION VIA CONDUIT RUN FROM "A" TO "JB5". SIZE OF CONDUIT TO BE DETERMINED BY WIRE SIZE AS SPECIFIED ON "GENERATOR SPECIFICATIONS" PAGE. LEAVE 8' PIGTAIL ON JB5 SIDE. TOTAL CONDUIT RUN MUST NOT EXCEED 9'-2" (SEE "CABLE LENGTHS" PAGE")			
C5	3/4" CONDUIT RUN FROM "A" BREAKER TO "EOS". (2) #16AWG PLUS GROUND. PROVIDE POWER IF NECESSARY FOR SHUNT TRIP SOLENOID.			
C6	3/4" CONDUIT FOR 120V RUN FROM "WL" TO "JB4".			
C7	3/4" CONDUIT RUN FROM "DS" TO "JB4". PROVIDE #16 AWG, 2 COND, FROM "DS" TO "JB4", LEAVE 6' PIGTAIL ON "JB4" SIDE.			
C8	(2) 3" CONDUITS RUN FROM "JB4" TO "JB6". LEAVE PULL STRINGS. SMOOTH CONDUIT PREFERRED. 3" CONDUIT IS IDEAL, HOWEVER, CONDUITS MUST BE 2 1/2" MINIMUM. TOTAL CONDUIT RUN MUST NOT EXCEED LENGTH ACCORDING TO TABLE ON "CABLE LENGTHS" PAGE.			
WL	X-RAY WARNING LIGHT, EC TO PROVIDE 120VAC FOR THE LIGHT, AND PULL THE WIRE TO "JB4". LEAVE 8' PIGTAIL AT "JB4" SIDE. X-RAY GENERATOR WILL PROVIDE THE SWITCH.			
DS	NORMALLY OPEN (MAGNETIC STYLE) DOOR SWITCH WITH WIRE RUN TO "JB4" - PROVIDED BY EC.			
EOS	EMERGENCY OFF SWITCH (SHUNT TRIP TYPE) TO BE CONNECTED TO THE "A" BREAKER, 60" AFF, LOCATED AS SHOWN.			

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Cable Lengths

STANDARD WIRE LENGTHS PROVIDED GC85 CABINET TO CEILING

TRANSVERSE	2.5 M	3 M	3.5 M	4 M
LONGITUDINAL				
3 M	8.75 M 28' 8"	8.6 M 28' 2"	7.6 M 24' 11"	7.6 M 24' 11"
3.5 M	8.4 M 27' 6"	8.25 M 27' 0"	7.25 M 23' 9"	7.25 M 23' 9"
4 M	8.4 M 27' 6"	8.25 M 27' 0"	7.25 M 23' 9"	7.25 M 23' 9"
4.5 M	7.85 M 25' 9"	7.7 M 25' 3"	6.7 M 21' 11"	6.7 M 21' 11"
5 M	7.85 M 25' 9"	7.7 M 25' 3"	6.7 M 21' 11"	6.7 M 21' 11"
6.5 M	6.85 M 22' 5"	6.7 M 21' 11"	5.7 M 18' 8"	5.7 M 18' 8"

WIRING SCHEDULE

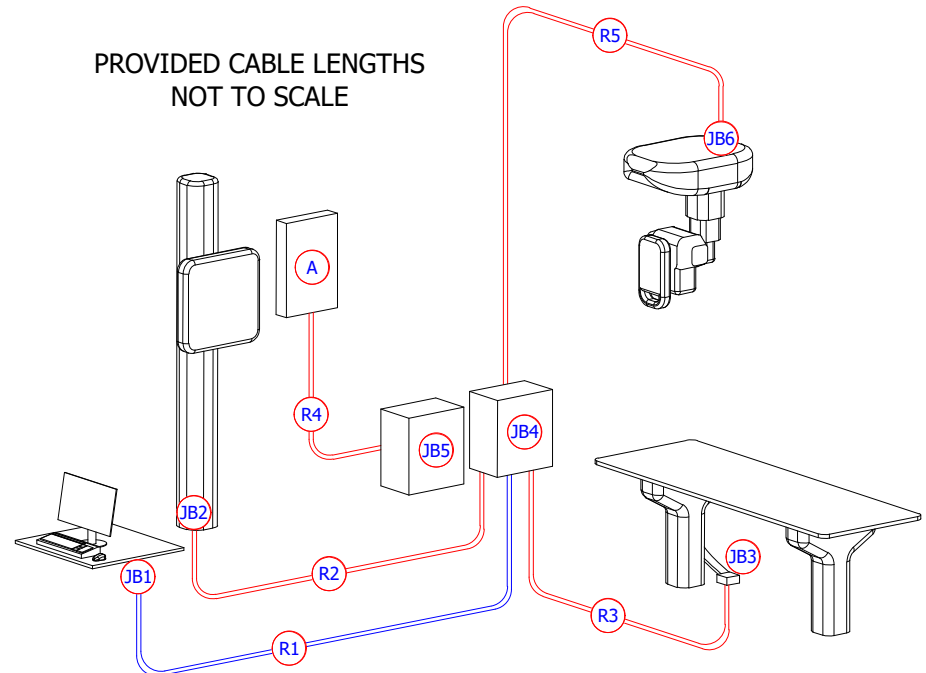
(CONTRACTOR FURNISHED - CONTRACTOR INSTALLED)

RUN #	METERS	FT-IN	COMMENTS
R1	18.8	61' 8"	FROM "JB1" TO "JB4" (FROM CONTROL ROOM PC TO SYSTEM CABINET)
R2	10.6	34' 9"	FROM "JB2" TO "JB4" (FROM WALL STAND TO SYSTEM CABINET)
R3	9.5	31' 2"	FROM "JB3 TO JB4" (FROM TABLE TO SYSTEM CABINET)
R4	2.8	9' 2"	FROM "A" TO "JB5" (FROM POWER DISTRIBUTION TO SYSTEM CABINET)
R5	SEE CHART	SEE CHART	FROM "JB4" TO "JB6" (FROM TUBE HEAD UNIT TO SYSTEM CABINET. SEE CHART FOR ACTUAL ROOM CABLE LENGTH BASED ON TUBE HEAD UNIT SIZE LISTED ON "EQUIPMENT LAYOUT" PAGE)

EXTRA LONG WIRE LENGTHS PROVIDED (MUST BE SPECIFIED WHEN ORDERING EQUIPMENT) GC85 CABINET TO CEILING

TRANSVERSE	2.5 M	3 M	3.5 M	4 M
LONGITUDINAL				
3 M	13.75 M 45' 1"	13.6 M 44' 7"	12.6 M 41' 4"	12.6 M 41' 4"
3.5 M	13.4 M 43' 11"	13.25 M 43' 5"	12.25 M 40' 2"	12.25 M 40' 2"
4 M	13.4 M 43' 11"	13.25 M 43' 5"	12.25 M 40' 2"	12.25 M 40' 2"
4.5 M	12.85 M 42' 1"	12.7 M 41' 8"	11.7 M 38' 4"	11.7 M 38' 4"
5 M	12.85 M 42' 1"	12.7 M 41' 8"	11.7 M 38' 4"	11.7 M 38' 4"
6.5 M	11.85 M 38' 10"	11.7 M 38' 4"	10.7 M 35' 1"	10.7 M 35' 1"

PROVIDED CABLE LENGTHS NOT TO SCALE



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Generator Specifications

HVAC Environmental Notes:

Temperature must be regulated between 50 - 90 degrees F with relative humidity regulated at 30% to 85% non-condensing.

Heat output of equipment in one area must not affect temperature and humidity regulations in other areas. It is strongly recommended that each area be individually environmentally controlled with a thermostat.

Supply diffusers shall not cause direct air contact on patients or operators.

Typically, this system will operate in a normal office environment.

Spellman ZR75P - 80kw Generator Power Line Requirements

Line Voltage	Recommended Distribution Transformer	Breaker Size	Wire Size "A" to "JB5"	Ground Wire Size	Max. Line Impedance
3 Phase					
380VAC	125kVa	100A	#6	#6	0.09Ω
400VAC	125kVa	100A	#6	#6	0.10Ω
480VAC	125kVa	100A	#6	#6	0.15Ω

*Circuit breaker size has been defined safe to use by Samsung, but breaker size should be determined by customer electrician to meet local and NEC code requirements.

Electrical Contractor to supply L1, L2, L3, and Gnd in appropriate size conduit from "A" Breaker Panel to "JB5". Leave 8' pigtail on "JB5" side.

Wire must be made of copper and flexible.

Grounding: Insulated grounding must conform with current requirements for electrically susceptible patient areas. See Article 517, National Electrical Code.

Line voltage automatic compensation +/- 10% V~.

Maximum line regulation for maximum kVa demand: 6%

✓BX241016

NOTE: EC SHALL ENSURE THAT LUGS ARE LARGE ENOUGH TO FACILITATE OVERSIZED INCOMING CABLES REQUIRED BY X-RAY EQUIPMENT. REFER TO INCOMING WIRE SIZE NOTES.

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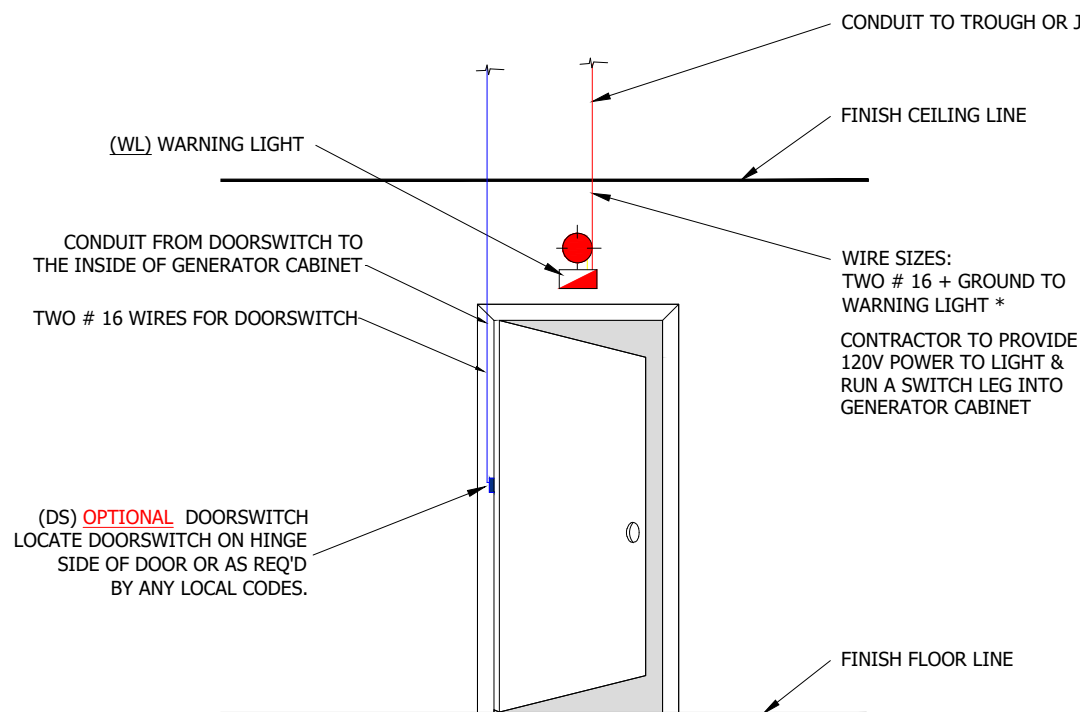
drawn by: Joshua Boudreaux

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WARNING LIGHT DETAIL & (OPTIONAL) DOORSWITCH



NOTE: IF DOUBLE DOORS ARE APPLIED, USE ONE DOORSWITCH FOR EACH DOOR HINGE
SEE TROUGH LAYOUT FOR LOCATION OF WARNING LIGHT/DOORSWITCH LOCATIONS

RUN POWER AND RETURN FOR WARNING LIGHT TO X-RAY GENERATOR.
GENERATOR HAS NORMALLY OPEN CONTACT TO ENABLE WARNING LIGHT.

DESCRIPTION:

WARNING LIGHT = 4" [10cm] STANDARD BOX WITH "X-RAY ON" OR RED WARNING LAMP OVER DOOR.

OPTIONAL DOORSWITCH = INTERRUPT MICROSWITCH IN JAMB, SQUARE "D", TYPE AO, NORMALLY OPEN, 24-120 VOLTS.

PURPOSE OF MICROSWITCH:

TO PREVENT AN X-RAY EXPOSURE FROM OCCURRING ONCE THE DOOR IS OPENED. CUSTOMER TO DETERMINE REQUIREMENT AND LOCATION BASED ON LOCAL CODES.

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Site Planning Guide For:

Wright-Patterson AFB - Room 1N62 Samsung GC85A OTC System

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These Room Plans are provided by Equipment Vendor for the sole purpose of showing specific information on the equipment to be installed at this facility. The provider of these plans is not responsible for designing or providing room specifications other than what is needed for the successful installation and operation of the Radiographic system.

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drawn by: Joshua Boudreaux

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General Notes

updated 7/15/25 by cory kimbrough

- Boston Imaging is only responsible for installation of imaging equipment purchased from Boston Imaging or equipment contracted to be relocated with Boston Imaging. All other construction and room preparation, including millwork, cabinets, sinks, backing for apron racks, networking connections, etc. are to be designed and supplied by others.
- Customer and the designated General Contractor are responsible for all work in preparing the x-ray room and surrounding area and all costs involved.
- Customer and the designated Contractor are responsible for the cost and obtaining of all professional fees and all permits, including all building and electrical permits.
- Customer is responsible for obtaining lead shielding requirements from a licensed physicist and/or compliance with local and state regulations.
- Although room lighting is not specified on these plans, it is the responsibility of the Purchaser or the designated Architect or Electrical Contractor to provide dimming lights in the x-ray room and control booth area as well as convenient wall outlets, strategically placed around the room. Contractor must avoid placing LED lights directly above x-ray system. FOR OVERHEAD X-RAY ROOMS, ALL LIGHT FIXTURES, HVAC VENTS, AND FIRE SPRINKLERS MUST BE CLEAR OF ALL CEILING SUPPORTS, which includes the locations where Longitudinal Rails will be installed (see "Structural Layout - Ceiling" page if applicable).
- Ceiling height is indicated on these plans and must be maintained as stated. If for any reason the minimum ceiling height is unobtainable, it is the responsibility of the Customer or the designated Contractor to notify Boston Imaging Project Management.
- All dimensions are from finished surfaces unless otherwise noted. Accuracy of room dimensions are based upon information provided to the Drafter of these plans. The Drafter of these plans will not accept responsibility for any discrepancies, or any additional costs that may be incurred due to inaccurate information.
- When required by state law, the Purchaser is to employ a registered Physicist to certify x-ray system and room shielding at the Purchaser's expense.
- All construction shall comply with all building codes that have jurisdiction.
- The Purchaser, at their expense, shall arrange to have furnished and installed any plumbing, wall, floor or ceiling reinforcing Unistrut, electrical conduit, wire, main switches, panel boards, junction boxes and cover plates, bushings, wire or cable duct or trough specified or required for the satisfactory installation of the x-ray equipment. **Locations of electrical boxes may vary slightly due to stud locations. If dimensions aren't specified, locations are to be within close proximity of item.**
- These drawings are supplied to suggest location of x-ray equipment and associated apparatus, electrical wiring details and room arrangements. In preparing these plans, every effort has been made to conform details to the actual equipment expected to be installed. The provider of these plans cannot accept responsibility for any changes made to the equipment or the room or for any damages resulting therefrom. Actual construction drawings should be provided by the Purchaser's Architect or General Contractor.
- Boston Imaging assumes no responsibility for any construction costs, whether or not related to the installation of any x-ray equipment. No work may be performed or any materials furnished at the expense of Boston Imaging without a prior authorized, signed purchase order. Equipment listed on Sales quote supersedes the Equipment listed on the Equipment Legend on these plans.

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drawn by: Joshua Boudreaux

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Site Readiness Requirements

updated 7/15/25 by cory kimbrough

The following general conditions are required prior to the delivery of equipment. These conditions will ensure the best possible environment for the installation and protection of computers, electronics, x-ray tubes, image intensifiers, cameras, monitors, and mechanical equipment. Please note: if these conditions are not met at the time of delivery, the Boston Imaging Project Manager should reschedule the installation start date.

- All necessary approvals, permitting, and shielding reviews required by either state or local governing agencies will be the Customer's responsibility. Some states will not allow the installation to begin without prior approval.
- Power available at the designated power cabinet prior to delivery of equipment.
- Walls to be sanded, primed and painted, floor covering installed, ceiling completed, doors hung with finish applied and lead barriers installed.
- HVAC complete, functioning properly and tested prior to equipment delivery.
- Exam room floor under all floor mounted x-ray equipment shall be flat and level to within 0.125" in all directions in a 10' span.
- All structural backing boards, reinforcement plates, and overhead grid installed as designated in Site Planning Guide. It will be the responsibility of the Customer's Design Engineer to furnish recommended methods of anchoring and attachment for applicable Boston Imaging x-ray equipment.
- All cable troughs, junction boxes, conduits and raceways correctly sized and installed according to the provided Site Planning Guide. All lighting installed and functioning at the time of delivery. **ALL FLUSH MOUNTED JUNCTION BOXES SHOULD HAVE OVERSIZED COVERS AND BE PAINTED TO MATCH THE WALL.** Surface-mounted junction boxes should also be painted to match the wall.
- Room and immediate vicinity to be dust free and remain so for the duration of the installation.
- Customer supplied PACS, laser imagers, cameras, computers, printers, routers, networks, and network drops are to be installed and verified operational prior to Boston Imaging installing image acquisition and processing hardware and software. Additionally, firewalls, backup power sources, virus software and other security software and hardware are the Customer's responsibility to acquire, install, and maintain current (unless prior arrangements have been made for Boston Imaging to provide this equipment). Boston Imaging will connect to customer installed network drops but assumes no responsibility for proper operation of Customer's network and associated hardware. It is strongly suggested that the Customer retain an IT person to be available for network related issues that may arise during its useful life. Boston Imaging is not responsible for computer malfunctions due to Customer or patient's unauthorized use or installation of computer programs for their personal use.
- Boston Imaging supplied servers are not allowed to have updates installed without the prior consent of Boston Imaging.
- Telephone service and VPN access must be installed and operational prior to installation for remote support.
- It will be the Customer's responsibility to provide a clear and unobstructed pathway for delivery of diagnostic devices, including room entry.
- Removal of old equipment must be quoted by service. Boston Imaging does not dispose of transformers or tubes. Third party disposal service companies are available upon request.

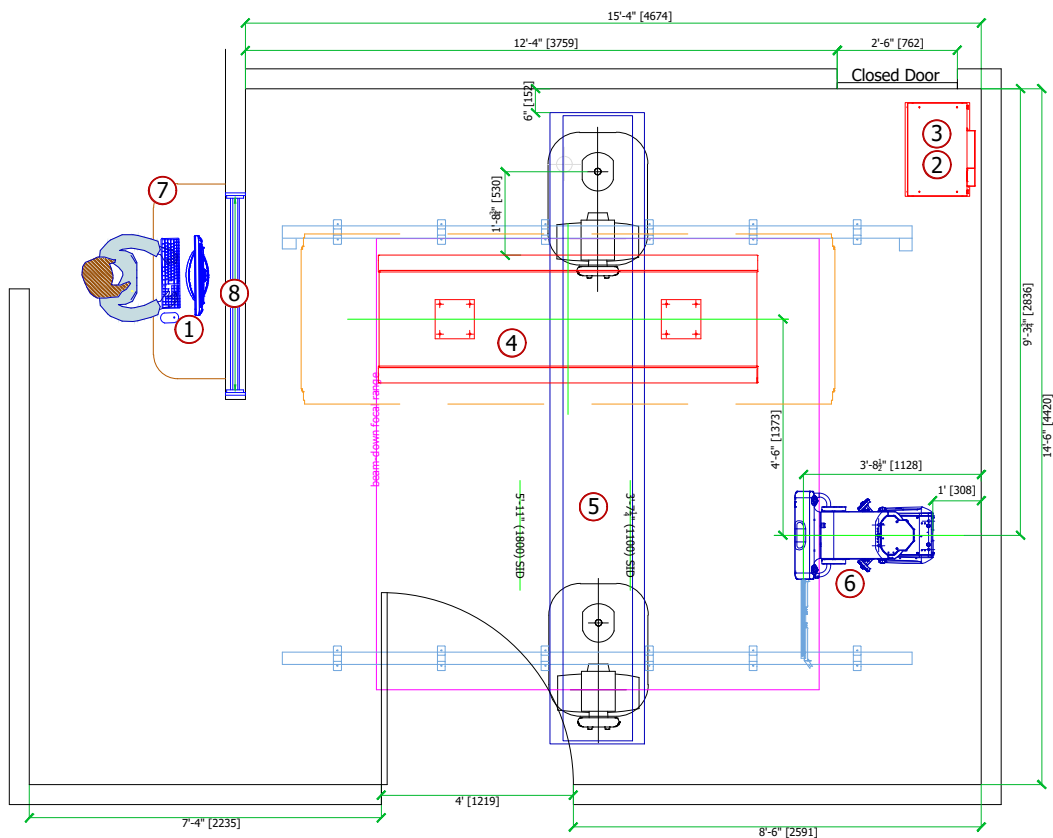
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NOTE: Walls must be at least ~5" thick to accommodate electrical boxes and lead lining.



Room 1N62
Current Ceiling Height: 9'-5 $\frac{1}{2}$ "

EQUIPMENT LEGEND						
FUTURE						
EXISTING						
INSTALLED BY CUSTOMER/CONTRACTOR						
FURNISHED BY CUSTOMER/CONTRACTOR						
INSTALLED BY BOSTON IMAGING						
FURNISHED BY BOSTON IMAGING						
ITEM	DESCRIPTION DIM: W X D X H	WT. (LBS)	BTU'S /HR			
①	Samsung GC85A DR Workstation	N/A	300.3	•	•	
②	Samsung GC85A System Cabinet DIM: 23.23" x 16.93" x 17.00"	264	549.4	•	•	
③	Spellman ZR75P - 80kw Generator Cabinet DIM: 23.46" x 16.14" x 18.90"			•	•	
④	Samsung GC85A Elev. 4-Way Float Top Table DIM: 96" x 32" x 36"	462	235.4	•	•	
⑤	Samsung GC85A OTC DIM: 4M(L) x 4M(T) (157.48" x 157.48" x Var")	798-928	392.4	•	•	
⑥	Samsung GC85A Premium Tilting Wall Stand Right or Left Load to be specified on sales quote DIM: 25" x 32" x 87"	396	196.2	•	•	
⑦	Countertop with PC shelf below - to be designed and installed by customer/contractor				•	•
⑧	Lead Window DIM: Determined by customer				•	•

Samsung GC85A Overhead System
Recommended Ceiling Height: 9'-2 $\frac{1}{4}$ " - 9'-4 $\frac{3}{16}$ "
Min - Max Ceiling Height: 8'-8 $\frac{3}{8}$ " - 10'-0 $\frac{1}{4}$ "

NOTE: Ceiling heights outside of the recommended range require Samsung review and approval.



Scale - 1/4" = 1'

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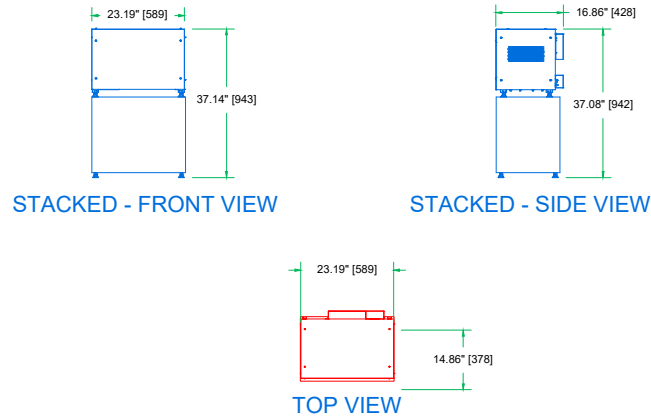
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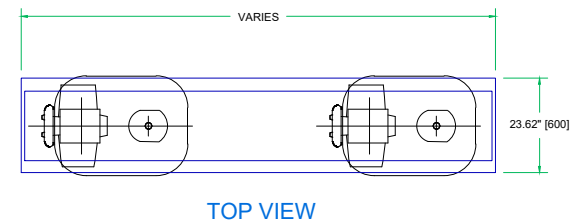
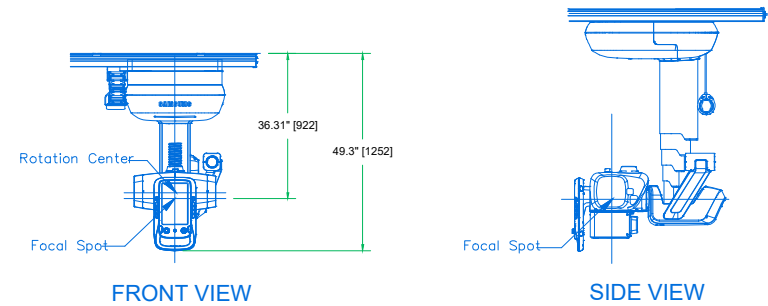
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Generator & System Cabinet



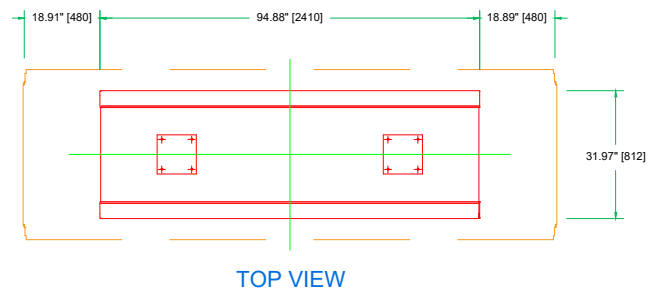
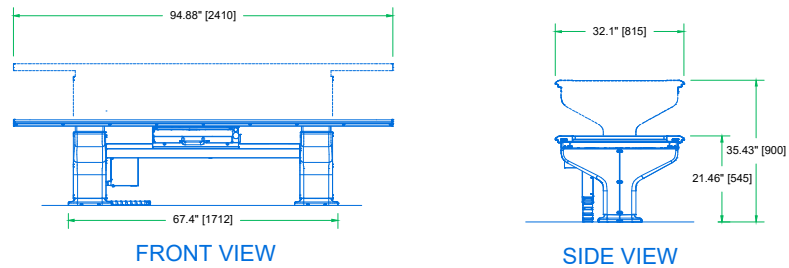
✓CK240313

Tube Head Unit Detail (GC85A)



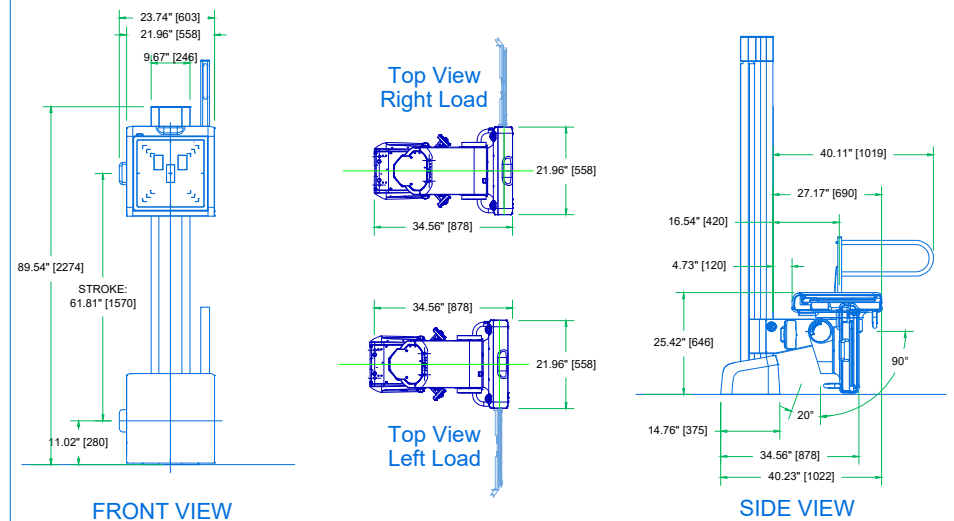
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GC85A Elevating Table Detail



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GC85A Premium Wallstand Detail



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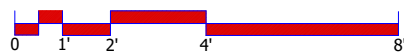
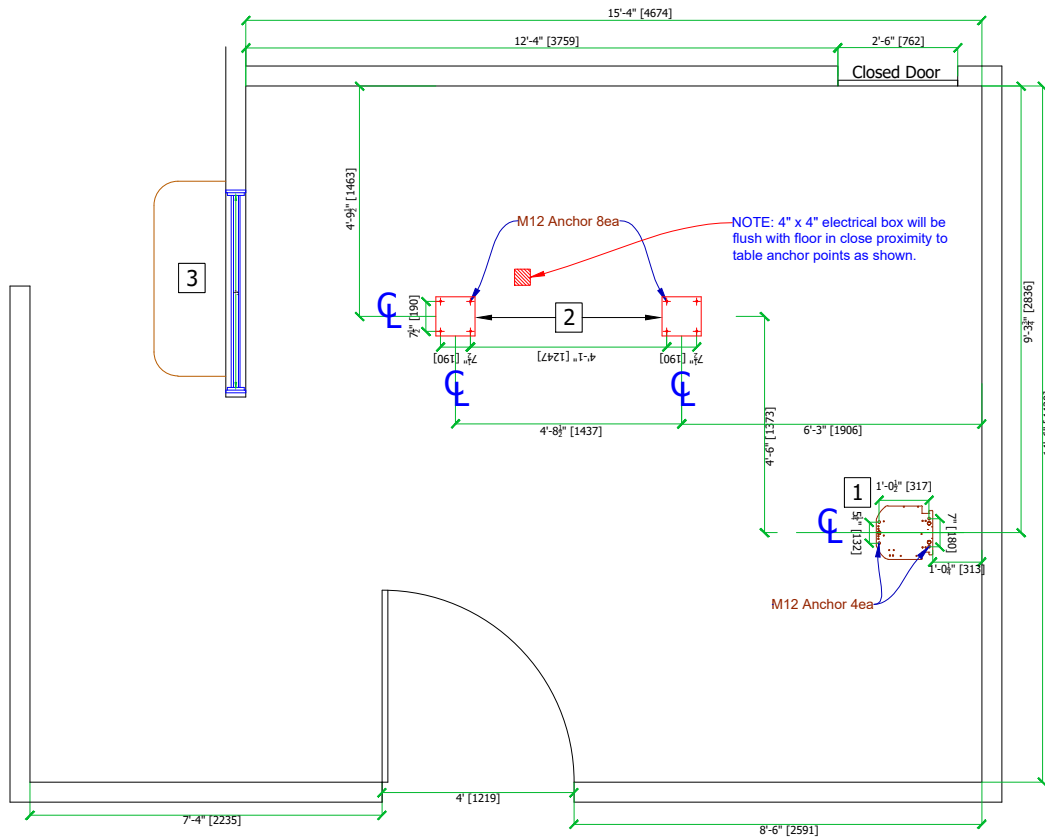
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Structural Layout - Floor & Wall



Scale - 1/4" = 1'

STRUCTURAL SUPPORT LEGEND

ITEM	DESCRIPTION	FUTURE EXISTING	INSTALLED BY CUSTOMER/CONTRACTOR	FURNISHED BY CUSTOMER/CONTRACTOR	INSTALLED BY BOSTON IMAGING	FURNISHED BY BOSTON IMAGING
1	Wall Stand Base Floor Bolt Locations.					
2	Table Base Floor Bolt Locations.					
3	Counter Top with bottom PC shelf to be designed and installed by customer/contractor.					

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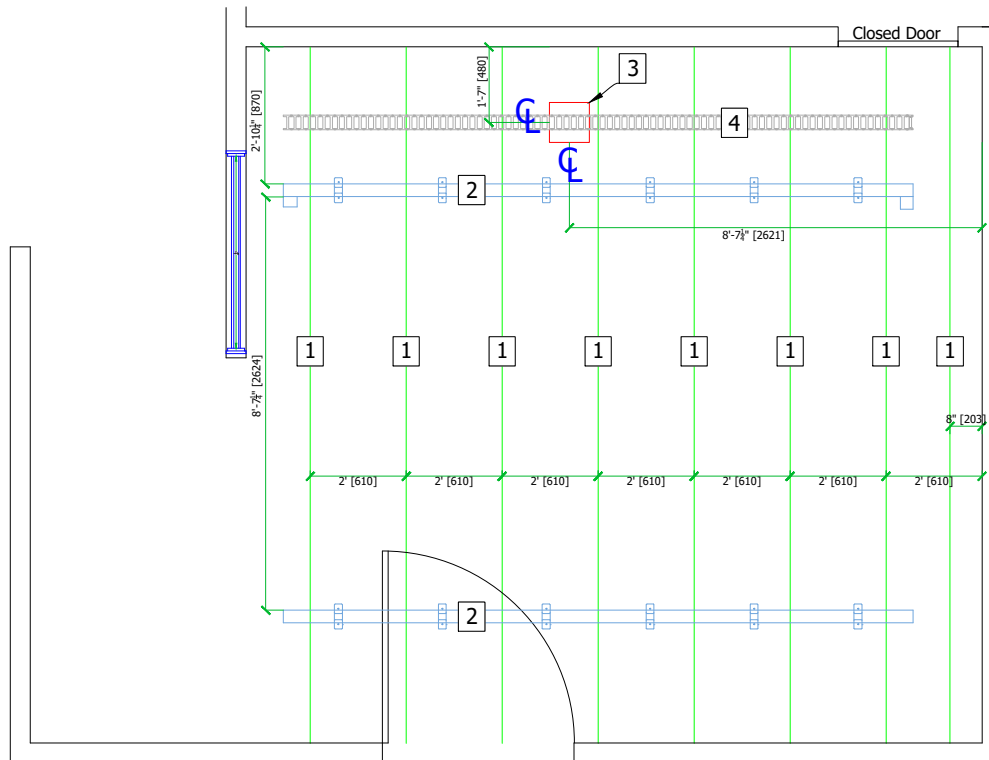
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Structural Layout - Ceiling



STRUCTURAL SUPPORT LEGEND									
FUTURE									
EXISTING									
INSTALLED BY CUSTOMER/CONTRACTOR									
FURNISHED BY CUSTOMER/CONTRACTOR									
INSTALLED BY BOSTON IMAGING									
FURNISHED BY BOSTON IMAGING									
ITEM	DESCRIPTION								
1	Existing Unistrut Support, located and spaced as shown. See "Unistrut & Ceiling Detail" Page for more info. NOTE: Unistrut to provide (2) 8mm x 30mm mounting bolts and (2) 8mm nuts at each mounting location for installation of longitudinal rails (ITEM 2)								
2	Manufacturer supplied longitudinal rails - to be secured to Unistrut support (ITEM 1).								
3	Unistrut design must accommodate 10" x 10" x 10" electrical box, which will be flush mounted in the ceiling (furnished/installed by Electrical Contractor).								
4	Equipment Cable Veyor - must have unobstructed access as it travels along ceiling. See "Ceiling Exclusion Zones" page.								

NOTE: See "Ceiling Exclusion Zones" page for more info. All light fixtures, HVAC vents and fire sprinklers must be clear of all ceiling support. Architect to specify 2' x 2' flush mounted lift out ceiling tiles. A minimum of 12" above ceiling tiles is required for service access of the equipment.

NOTE: Ceiling structural support for the Samsung GC85A must be able to withstand a dynamic load of 1.25 tons.

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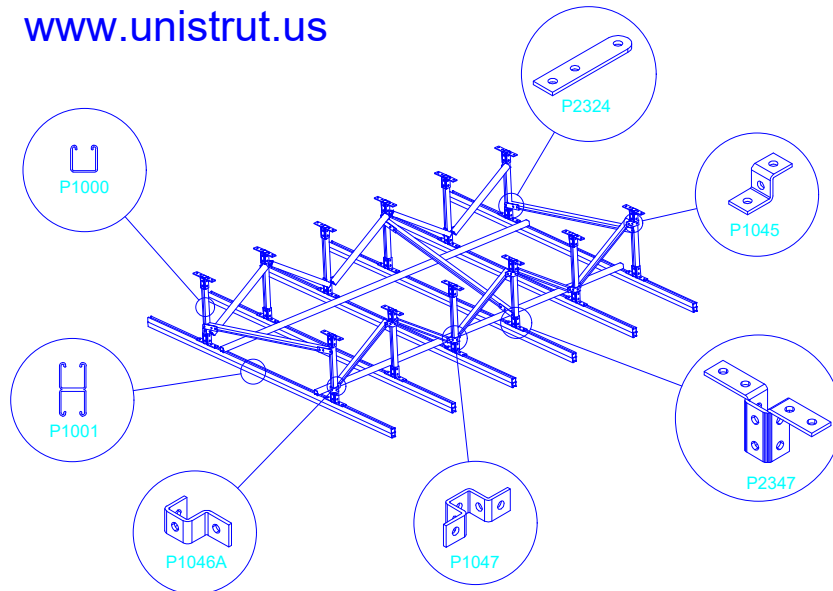
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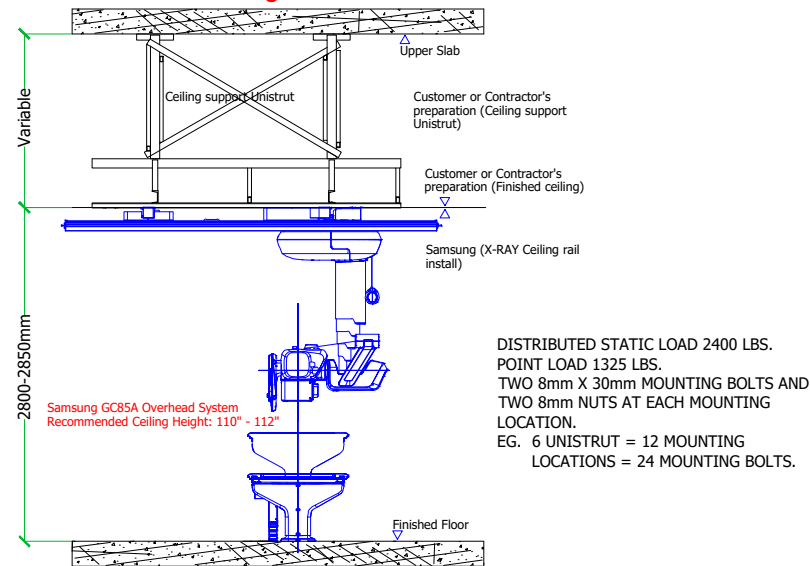
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CEILING RAIL UNISTRUT DETAILS

www.unistrut.us



Samsung GC85A



DRAWING FOR REFERENCE ONLY
ACTUAL DESIGN, PARTS AND PART NUMBERS ARE FACILITY DEPENDENT

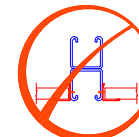
Unistrut & Ceiling Detail

STRUCTURAL NOTES:

- THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF CEILING MOUNTED X-RAY AND ANCILLARY EQUIPMENT.
- THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RIGID, AND BRACED FOR SWAY WITH A MAXIMUM DEFLECTION OF .0625" AT ANY GIVEN POINT.
- ALL OVERHEAD STRUCTURAL SUPPORT MEMBERS SHALL BE TRUE, SQUARE, LEVEL, PARALLEL, AND COPLANAR IN RESPECT TO EACH OTHER WITH ALL HORIZONTAL STRUCTURAL SUPPORT MEMBERS TO BE LOCATED AND SET WITH A WATER LEVEL OR TRANSIT.
- ANY STRUCTURAL DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON STANDARD BUILDING PRACTICES AND ARE NOT INTENDED FOR CONSTRUCTION USE. ACTUAL CONSTRUCTION DETAILS, LOADING FACTORS, SPECIFICATIONS, AND ALL CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE HOSPITAL'S EXPENSE.
- METHODS OF SUPPORT FOR THE STEELWORK THAT WILL PERMIT ATTACHMENT TO STRUCTURAL STEEL OR THROUGH BOLTS IN CONCRETE CONSTRUCTION SHOULD BE FAVORED. DO NOT USE SCREW ANCHORS IN DIRECT TENSION.
- DO NOT USE SCREWS TO FASTEN CEILING GRID TO UNISTRUT. AN ALTERNATE METHOD SUCH AS TACK OR SPOT WELDING, ETC. SHOULD BE CONSIDERED. ALL LIGHTS, SPRINKLER HEADS AND ANY CEILING PIECE MUST BE FLUSH WITH THE FINISHED CEILING TO AVOID MOVEMENT OF OTC.
- ALL UNISTRUT MEMBERS HAVE BEEN COORDINATED WITH THE X-RAY EQUIPMENT. ANY DEVIATION FROM THIS PLAN MUST BE APPROVED BY SIGNATURE THROUGH THE EQUIPMENT VENDOR.
- THE EQUIPMENT VENDOR OR VENDOR'S DESIGNER IS IN NO WAY RESPONSIBLE FOR THE DESIGN OR INSTALLATION OF THE SUPPORT STRUCTURE FOR ANY OVERHEAD CEILING MOUNTED EQUIPMENT. THIS IS THE RESPONSIBILITY OF THE PURCHASER OR PURCHASER'S CONTRACTOR. IT IS VERY STRONGLY RECOMMENDED THAT A STRUCTURAL ENGINEER IN CONJUNCTION WITH UNISTRUT REPRESENTATIVES COORDINATE THE UNISTRUT SUPPORT STRUCTURE.
- UNISTRUT CHANNEL TO BE FLUSH MOUNTED IN FINISHED CEILING UNLESS OTHERWISE SPECIFIED ON THESE DRAWINGS. ALL EXPOSED CHANNELS SHALL BE PAINTED THE SAME COLOR AS THE FINISHED CEILING. CONTRACTOR TO SUPPLY AND INSTALL CLOSURE STRIPS IN ALL EXPOSED UNISTRUT.

DO NOT MOUNT TILE LOWER THAN UNISTRUT. IF TILE IS NOT FLUSH MOUNT, MOUNT IN SUCH A WAY THAT THE LOWEST PART OF TILE IS FLUSH WITH UNISTRUT RAIL.

DO NOT DRILL INTO OR ATTACH ANY FASTENERS TO UNISTRUT UNLESS FIRST APPROVED BY A LICENSED STRUCTURAL ENGINEER.



NOT TO SCALE

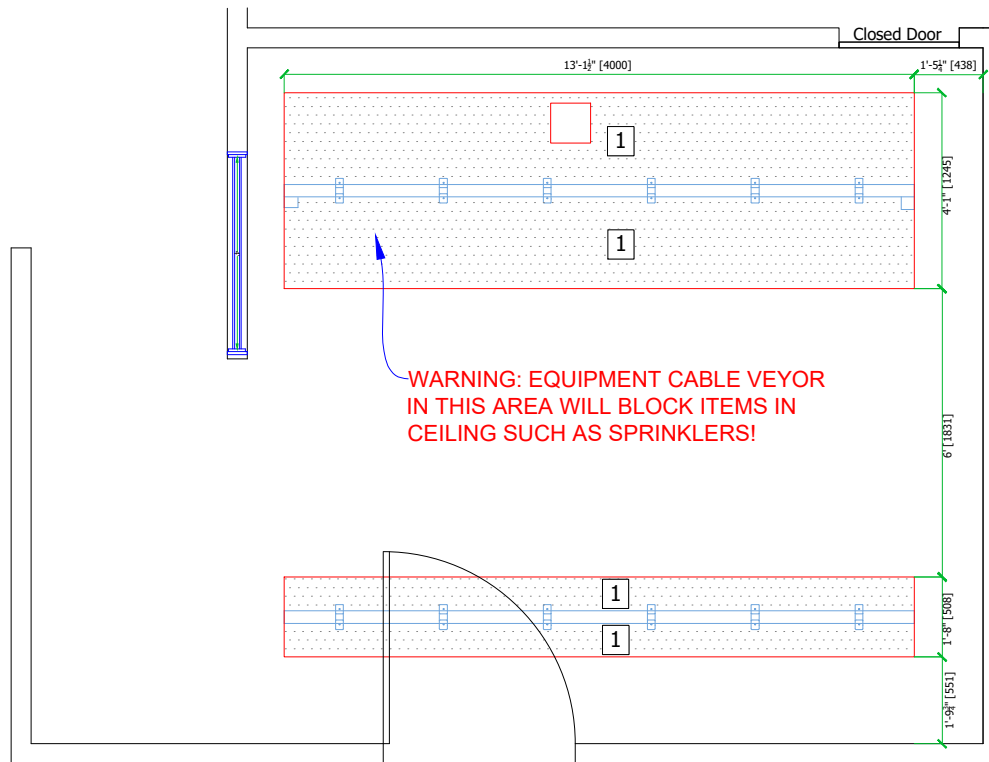
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Ceiling Exclusion Zones



ITEM	DESCRIPTION
1	CLEAR ZONES - NOTHING IN THESE AREAS SUCH AS FIRE DETECTORS, SPRINKLERS, LIGHTS, ETC. WITHOUT PRIOR WRITTEN CONSENT OF EQUIPMENT SUPPLIER. SOME EXCEPTIONS MAY BE POSSIBLE.
NOTE: OTHER AREAS OUTSIDE OF CLEAR ZONES MUST HAVE ONLY FLUSH MOUNTED DEVICES TO ALLOW FULL RANGE OF EQUIPMENT TRAVEL.	

CAUTION: PROTRUDING DEVICES; SPRINKLER HEADS, LIGHTS, AC VENTS, ETC. MAY DAMAGE OR BE DAMAGED BY INSTALLED EQUIPMENT IN OPERATION. ARCHITECT TO SPECIFY 2' BY 2' FLUSH MOUNT CEILING TILES.

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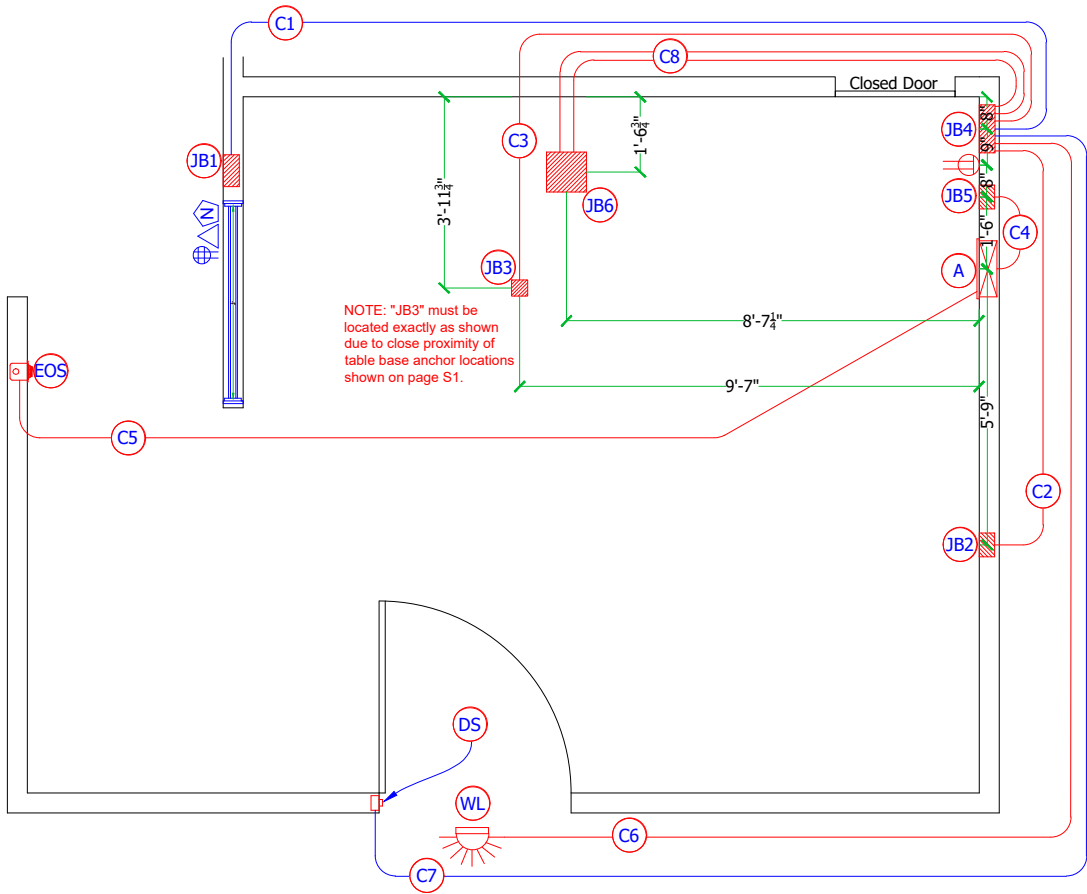
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NOTE: Conduits are drawn with minimal overlap on the page so they are easy to visually interpret and understand.

NOTE: ALL ACTUAL CONDUITS MUST TAKE MOST DIRECT ROUTE POSSIBLE.

NOTE: All conduits must be rigid and must have sweeping bends for turns.



- Provide the following for DR System:
- 115 VAC, 20 Amp, Dedicated Quad Outlet
 - VPN Connection or Internet Access for Remote Diagnostics
 - Provide (2) RJ-45 Network Connection w/Cat. 6 Cable Outlet

ELECTRICAL LEGEND				
FUTURE				
EXISTING				
INSTALLED BY CUSTOMER/CONTRACTOR				
FURNISHED BY CUSTOMER/CONTRACTOR				
INSTALLED BY BOSTON IMAGING				
FURNISHED BY BOSTON IMAGING				
ITEM	DESCRIPTION			
A	BREAKER ENCLOSURE - 480VAC - 3 PHASE/SHUNT TRIP TYPE BASED ON SPECS ON "GENERATOR SPECIFICATIONS" PAGE.			
JB1	8" x 8" x 4" DEEP JUNCTION BOX, 18" AFF, FLUSH MOUNTED IN WALL WHERE SHOWN. PROVIDE FLUSH MOUNT COVER PLATE.			
JB2	6" x 6" x 4" DEEP JUNCTION BOX, FLUSH MOUNTED IN WALL, AT OR JUST ABOVE FLOOR LEVEL. PROVIDE A BLANK FLUSH MOUNT COVER PLATE.			
JB3	4" x 4" x 4" DEEP JUNCTION BOX, FLUSH MOUNTED IN FINISHED FLOOR. PROVIDE A BLANK FLUSH MOUNT COVER PLATE.			
JB4	12" x 12" x 4" DEEP JUNCTION BOX, 9" AFF, FLUSH MOUNTED IN WALL WHERE SHOWN. PROVIDE A BLANK FLUSH MOUNT COVER PLATE.			
JB5	6" x 12" x 4" DEEP JUNCTION BOX, 9" AFF, FLUSH MOUNTED IN WALL WHERE SHOWN. EC TO PROVIDE TERMINAL BLOCK INSIDE BOX TO CONNECT TO SYSTEM CABINET. PROVIDE A FLUSH MOUNT COVER PLATE. PROVIDE 1 1/2" FLEX CONDUIT, 6' IN LENGTH, AND RUN FROM "JB5" TO REAR OF GENERATOR CABINET USING (2) 90 DEGREE ELBOWS.			
JB6	10" x 10" x 10" DEEP JUNCTION BOX, FLUSH MOUNTED IN CEILING IN LOCATION SHOWN. PROVIDE A BLANK OVERSIZED COVER FOR CABLE ACCESS. BOX MUST MOUNT NEXT TO UNISTRUT AND NOT INTERFERE WITH UNISTRUT OPERATION. BOX MUST NOT HANG BELOW UNISTRUT. SEE "CEILING EXCLUSION ZONES" PAGE.			
C1	2" CONDUIT RUN FROM "JB1" TO "JB4". LEAVE PULL STRINGS. SMOOTH CONDUIT PREFERRED. TOTAL CONDUIT RUN MUST NOT EXCEED 61'-8" (SEE "CABLE LENGTHS" PAGE).			
C2	2 1/2" CONDUIT RUN FROM "JB2" TO "JB4". LEAVE PULL STRINGS. SMOOTH CONDUIT PREFERRED. TOTAL CONDUIT RUN MUST NOT EXCEED 34'-9" (SEE "CABLE LENGTHS" PAGE).			
C3	2 1/2" CONDUIT RUN IN OR UNDER FLOOR, FROM "JB3" TO "JB4". LEAVE PULL STRINGS. SMOOTH CONDUIT PREFERRED. TOTAL CONDUIT RUN MUST NOT EXCEED 31'-2" (SEE "CABLE LENGTHS" PAGE)			
C4	EC TO SUPPLY POWER INTERCONNECT PRIOR TO EQUIPMENT INSTALLATION VIA CONDUIT RUN FROM "A" TO "JB5". SIZE OF CONDUIT TO BE DETERMINED BY WIRE SIZE AS SPECIFIED ON "GENERATOR SPECIFICATIONS" PAGE. LEAVE 8' PIGTAIL ON JB5 SIDE. TOTAL CONDUIT RUN MUST NOT EXCEED 9'-2" (SEE "CABLE LENGTHS" PAGE")			
C5	3/4" CONDUIT RUN FROM "A" BREAKER TO "EOS". (2) #16AWG PLUS GROUND. PROVIDE POWER IF NECESSARY FOR SHUNT TRIP SOLENOID.			
C6	3/4" CONDUIT FOR 120V RUN FROM "WL" TO "JB4".			
C7	3/4" CONDUIT RUN FROM "DS" TO "JB4". PROVIDE #16 AWG, 2 COND, FROM "DS" TO "JB4", LEAVE 6' PIGTAIL ON "JB4" SIDE.			
C8	(2) 3" CONDUITS RUN FROM "JB4" TO "JB6". LEAVE PULL STRINGS. SMOOTH CONDUIT PREFERRED. 3" CONDUIT IS IDEAL, HOWEVER, CONDUITS MUST BE 2 1/2" MINIMUM. TOTAL CONDUIT RUN MUST NOT EXCEED LENGTH ACCORDING TO TABLE ON "CABLE LENGTHS" PAGE.			
WL	X-RAY WARNING LIGHT, EC TO PROVIDE 120VAC FOR THE LIGHT, AND PULL THE WIRE TO "JB4". LEAVE 8' PIGTAIL AT "JB4" SIDE. X-RAY GENERATOR WILL PROVIDE THE SWITCH.			
DS	NORMALLY OPEN (MAGNETIC STYLE) DOOR SWITCH WITH WIRE RUN TO "JB4" - PROVIDED BY EC.			
EOS	EMERGENCY OFF SWITCH (SHUNT TRIP TYPE) TO BE CONNECTED TO THE "A" BREAKER, 60" AFF, LOCATED AS SHOWN.			

Cable Lengths

STANDARD WIRE LENGTHS PROVIDED GC85 CABINET TO CEILING

TRANSVERSE	2.5 M	3 M	3.5 M	4 M
LONGITUDINAL				
3 M	8.75 M 28' 8"	8.6 M 28' 2"	7.6 M 24' 11"	7.6 M 24' 11"
3.5 M	8.4 M 27' 6"	8.25 M 27' 0"	7.25 M 23' 9"	7.25 M 23' 9"
4 M	8.4 M 27' 6"	8.25 M 27' 0"	7.25 M 23' 9"	7.25 M 23' 9"
4.5 M	7.85 M 25' 9"	7.7 M 25' 3"	6.7 M 21' 11"	6.7 M 21' 11"
5 M	7.85 M 25' 9"	7.7 M 25' 3"	6.7 M 21' 11"	6.7 M 21' 11"
6.5 M	6.85 M 22' 5"	6.7 M 21' 11"	5.7 M 18' 8"	5.7 M 18' 8"

WIRING SCHEDULE

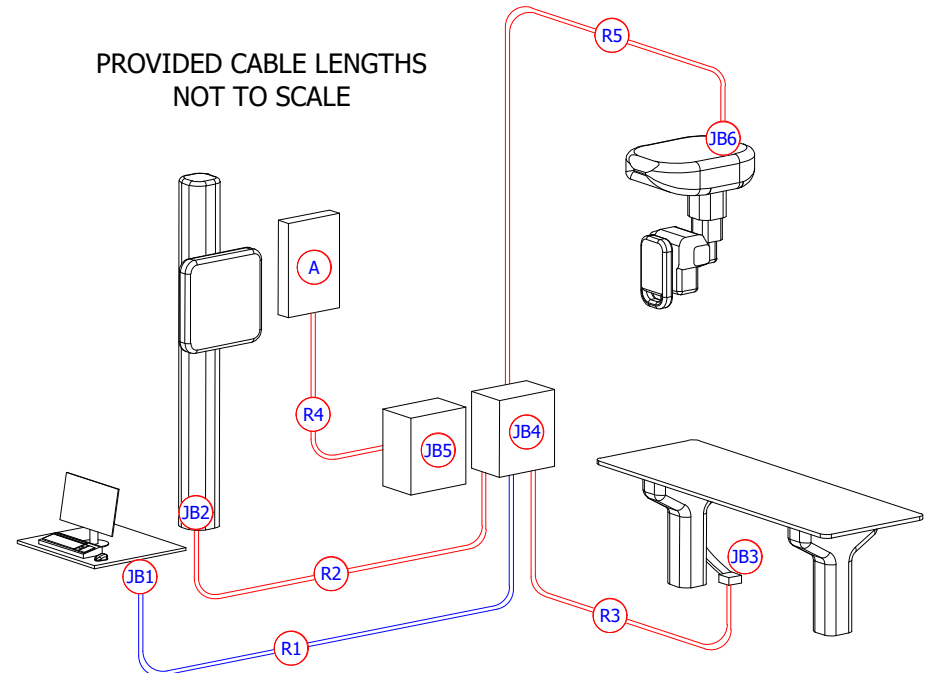
(CONTRACTOR FURNISHED - CONTRACTOR INSTALLED)

RUN #	METERS	FT-IN	COMMENTS
R1	18.8	61' 8"	FROM "JB1" TO "JB4" (FROM CONTROL ROOM PC TO SYSTEM CABINET)
R2	10.6	34' 9"	FROM "JB2" TO "JB4" (FROM WALL STAND TO SYSTEM CABINET)
R3	9.5	31' 2"	FROM "JB3 TO JB4" (FROM TABLE TO SYSTEM CABINET)
R4	2.8	9' 2"	FROM "A" TO "JB5" (FROM POWER DISTRIBUTION TO SYSTEM CABINET)
R5	SEE CHART	SEE CHART	FROM "JB4" TO "JB6" (FROM TUBE HEAD UNIT TO SYSTEM CABINET. SEE CHART FOR ACTUAL ROOM CABLE LENGTH BASED ON TUBE HEAD UNIT SIZE LISTED ON "EQUIPMENT LAYOUT" PAGE)

EXTRA LONG WIRE LENGTHS PROVIDED (MUST BE SPECIFIED WHEN ORDERING EQUIPMENT) GC85 CABINET TO CEILING

TRANSVERSE	2.5 M	3 M	3.5 M	4 M
LONGITUDINAL				
3 M	13.75 M 45' 1"	13.6 M 44' 7"	12.6 M 41' 4"	12.6 M 41' 4"
3.5 M	13.4 M 43' 11"	13.25 M 43' 5"	12.25 M 40' 2"	12.25 M 40' 2"
4 M	13.4 M 43' 11"	13.25 M 43' 5"	12.25 M 40' 2"	12.25 M 40' 2"
4.5 M	12.85 M 42' 1"	12.7 M 41' 8"	11.7 M 38' 4"	11.7 M 38' 4"
5 M	12.85 M 42' 1"	12.7 M 41' 8"	11.7 M 38' 4"	11.7 M 38' 4"
6.5 M	11.85 M 38' 10"	11.7 M 38' 4"	10.7 M 35' 1"	10.7 M 35' 1"

PROVIDED CABLE LENGTHS NOT TO SCALE



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Generator Specifications

HVAC Environmental Notes:

Temperature must be regulated between 50 - 90 degrees F with relative humidity regulated at 30% to 85% non-condensing.

Heat output of equipment in one area must not affect temperature and humidity regulations in other areas. It is strongly recommended that each area be individually environmentally controlled with a thermostat.

Supply diffusers shall not cause direct air contact on patients or operators.

Typically, this system will operate in a normal office environment.

Spellman ZR75P - 80kw Generator Power Line Requirements

Line Voltage	Recommended Distribution Transformer	Breaker Size	Wire Size "A" to "JB5"	Ground Wire Size	Max. Line Impedance
3 Phase					
380VAC	125kVa	100A	#6	#6	0.09Ω
400VAC	125kVa	100A	#6	#6	0.10Ω
480VAC	125kVa	100A	#6	#6	0.15Ω

*Circuit breaker size has been defined safe to use by Samsung, but breaker size should be determined by customer electrician to meet local and NEC code requirements.

Electrical Contractor to supply L1, L2, L3, and Gnd in appropriate size conduit from "A" Breaker Panel to "JB5". Leave 8' pigtail on "JB5" side.

Wire must be made of copper and flexible.

Grounding: Insulated grounding must conform with current requirements for electrically susceptible patient areas. See Article 517, National Electrical Code.

Line voltage automatic compensation +/- 10% V~.

Maximum line regulation for maximum kVa demand: 6%

✓BX241016

NOTE: EC SHALL ENSURE THAT LUGS ARE LARGE ENOUGH TO FACILITATE OVERSIZED INCOMING CABLES REQUIRED BY X-RAY EQUIPMENT. REFER TO INCOMING WIRE SIZE NOTES.

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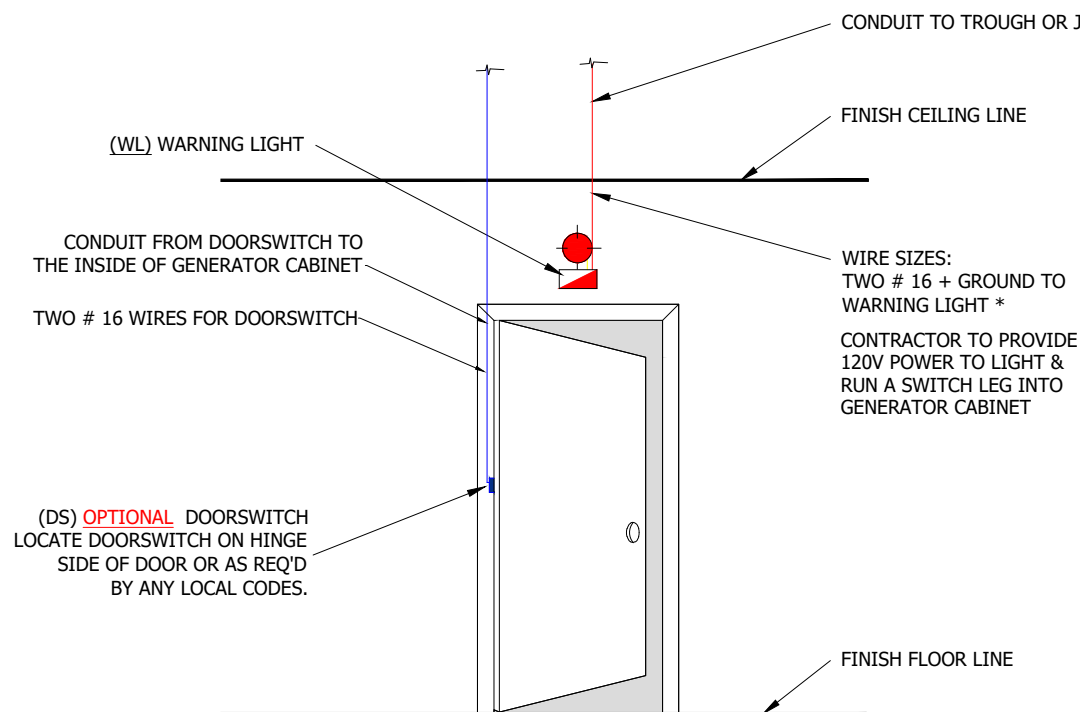
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WARNING LIGHT DETAIL & (OPTIONAL) DOORSWITCH



NOTE: IF DOUBLE DOORS ARE APPLIED, USE ONE DOORSWITCH FOR EACH DOOR HINGE
SEE TROUGH LAYOUT FOR LOCATION OF WARNING LIGHT/DOORSWITCH LOCATIONS

RUN POWER AND RETURN FOR WARNING LIGHT TO X-RAY GENERATOR.
GENERATOR HAS NORMALLY OPEN CONTACT TO ENABLE WARNING LIGHT.

DESCRIPTION:

WARNING LIGHT = 4" [10cm] STANDARD BOX WITH "X-RAY ON" OR RED WARNING LAMP OVER DOOR.

OPTIONAL DOORSWITCH = INTERRUPT MICROSWITCH IN JAMB, SQUARE "D", TYPE AO, NORMALLY OPEN, 24-120 VOLTS.

PURPOSE OF MICROSWITCH:

TO PREVENT AN X-RAY EXPOSURE FROM OCCURRING ONCE THE DOOR IS OPENED. CUSTOMER TO DETERMINE REQUIREMENT AND LOCATION BASED ON LOCAL CODES.

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