

HDR Architecture Associates, Inc.
27 Princess Street, Suite 400, Kingston, ON K7M 1A3

Project Number | 10460977
Client Number | PL026-012

2026/06/30
CONTRACT DOCUMENTS

CONTRACT DOCUMENTS

2026/06/30

ISSUED FOR BIDDING / PERMIT

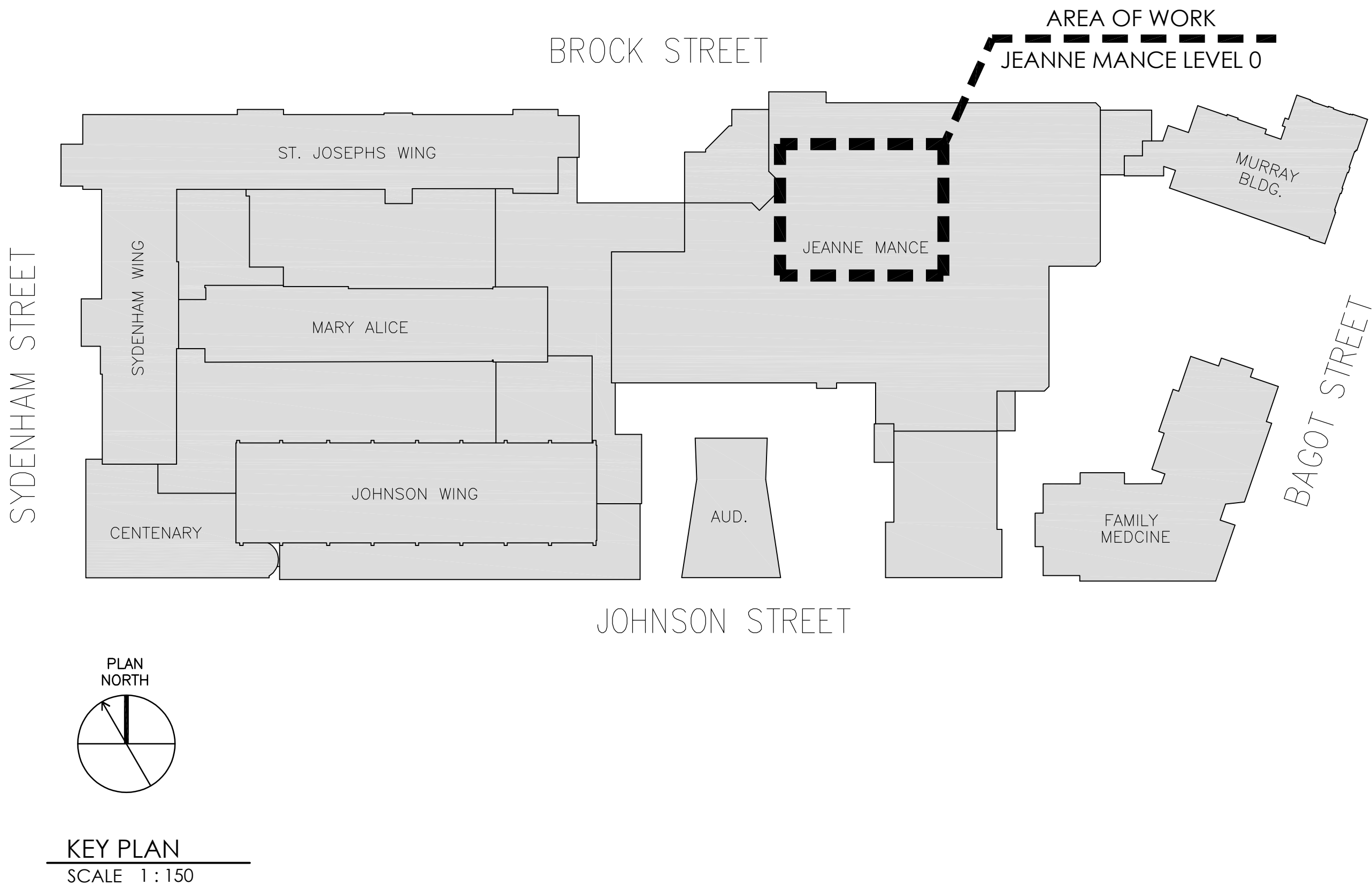
DRAWING LIST

- ARCHITECTURAL
A000 COVER SHEET
A001 INFORMATION SHEET & DETAILS
A050 LEVEL 0 - DEMOLITION PLAN & REFLECTED CEILING PLAN
A100 LEVEL 0 - NEW WORK PLAN & REFLECTED CEILING PLAN

- MECHANICAL
M100 KEY PLAN AND LEGENDS
M201 LEVEL 0 - FIRE PROTECTION AND PLUMBING NEW WORK
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- ELECTRICAL
E000 KEY PLAN AND LEGENDS
E001 LIGHTING DEMOLITION AND NEW WORK
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- GE HEALTHCARE (FOR REFERENCE AND COORDINATION ONLY)
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Hotel Dieu Hospital UCC - GENERAL X-RAY ROOM Equipment Replacement

166 Brock Street, Kingston
Ontario, K7L 5G2

Kingston Health
Sciences Centre

Centre des sciences de
la santé de Kingston



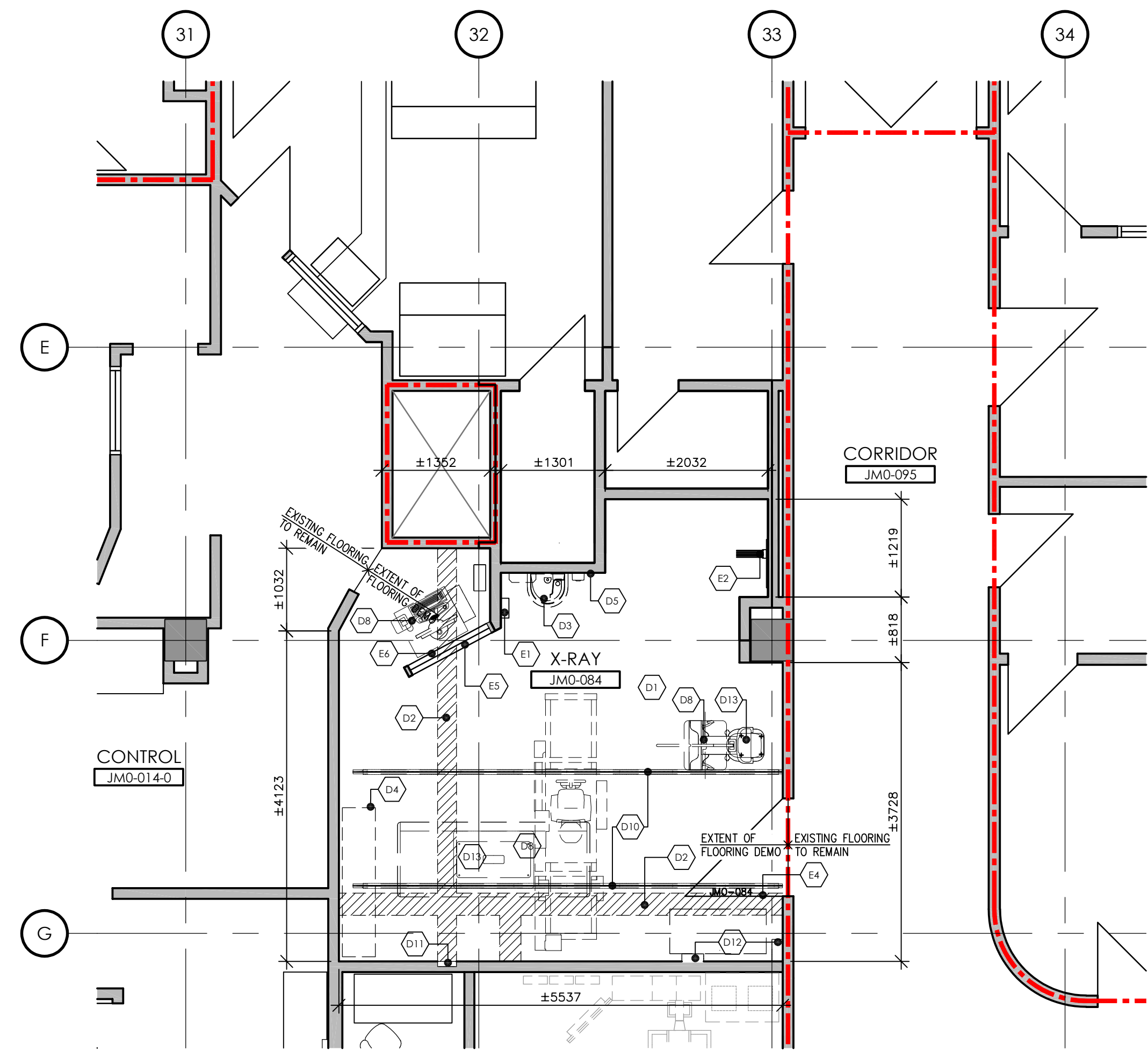
Kingston Health Sciences Centre

166 Brock Street, Kingston
Ontario, K7L 5G2

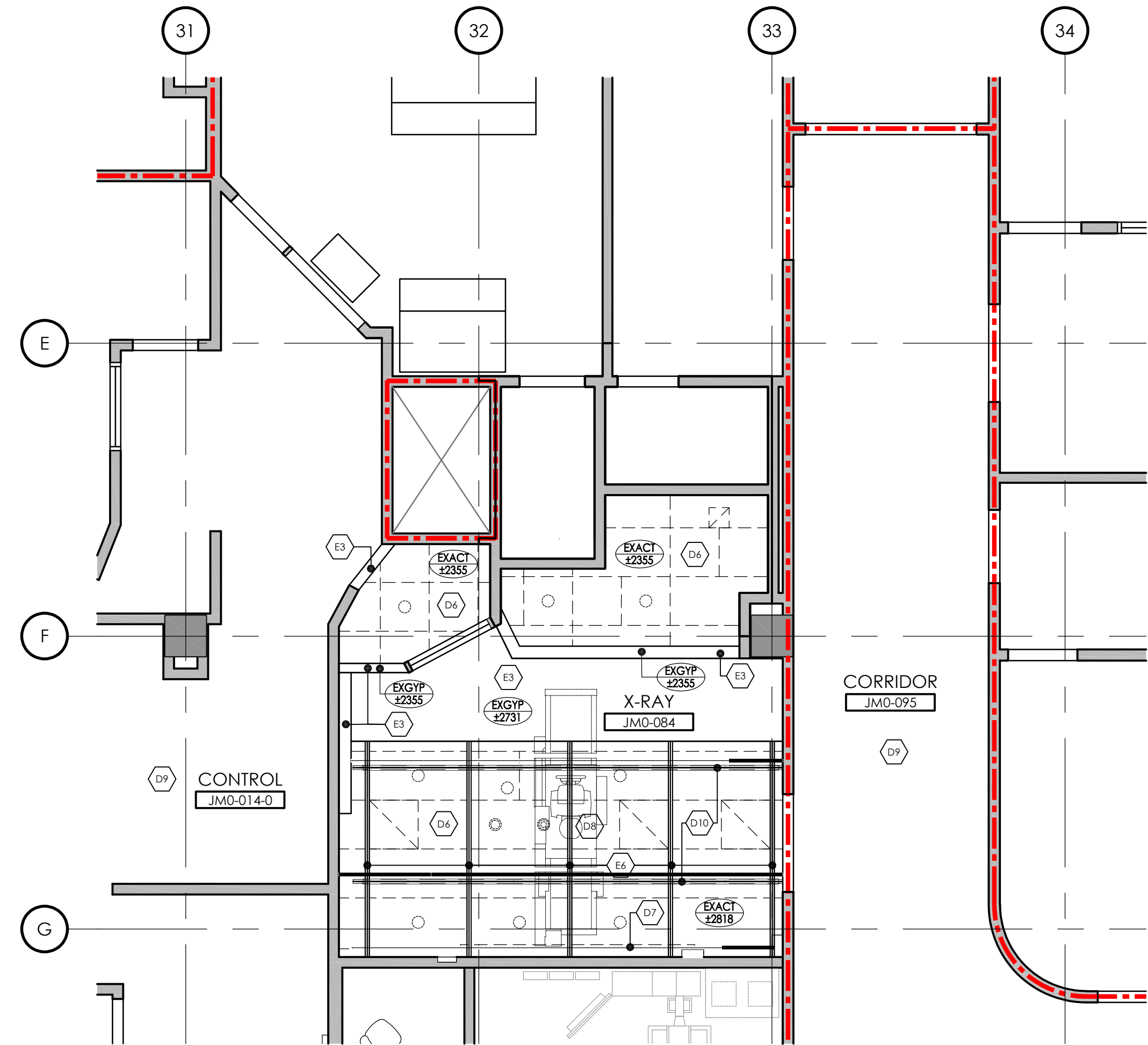


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1 LEVEL 0 DEMOLITION FLOOR PLAN
SCALE 1 : 50



2 LEVEL 0 DEMOLITION CEILING PLAN
SCALE 1 : 50

DEMOLITION NOTES:

- D1 REMOVE EXISTING SHEET VINYL FLOORING BASE. PREPARE EXISTING CONCRETE FLOOR SLAB PER MANUFACTURE'S RECOMMENDATIONS FOR NEW SHEET VINYL FLOORING.
- D2 EXISTING FLOOR TRENCHES TO BE REMOVED AND IN FILLED WITH CONCRETE (C/W DOWLING INTO ADJACENT CONCRETE ON ALL SIDES) TO BE FLUSH WITH ADJACENT EXISTING FLOOR SLAB.
- D3 REMOVE AND REINSTATE EXISTING HAND HYGIENE SINK AND ACCESSORIES (SD, HS & PTD) TO ALLOW FOR NEW SOLID SURFACE WALL PROTECTION TO BE INSTALLED BEHIND SINK. STORE IN SAFE PLACE UNTIL REINSTALLED. INCLUDE AS REQUIRE ANY MODIFICATIONS REQUIRED DUE TO THE INSTALLATION OF NEW WALL PROTECTION.
- D4 EXISTING MILLWORK/FURNITURE TO BE REMOVED AND DISPOSED OF.
- D5 REMOVE EXISTING WALL PROTECTION, PATCH AND REPAIR EXISTING WALL AS REQUIRED TO SUIT THE INSTALLATION OF NEW SOLID SURFACE WALL PROTECTION.
- D6 REMOVE EXISTING CEILING TILE AND ALL ASSOCIATED (CEILING GRID, SUSPENSION SYSTEM, MECHANICAL AND ELECTRICAL FIXTURES).
- D7 EXISTING UNISTRUT RAIL ALONG WALL TO BE REMOVED.
- D8 EXISTING X-RAY EQUIPMENT TO BE REMOVED BY OWNER.
- D9 REMOVE AND REINSTATE EXISTING CEILING AS REQUIRED TO COMPLETE NEW MECHANICAL/ELECTRICAL SCOPE OF WORK. REFER ALSO TO MECHANICAL/ELECTRICAL DRAWINGS FOR EXTENT OF WORK.
- D10 REMOVE EXISTING WALL TRENCHING AND INFILL OPENING WITH NEW STUDS AND GYPSUM BOARD. MAINTAIN AND REPAIR ALL EXISTING LEAD SHIELDING.
- D11 REMOVE EXISTING ELECTRICAL CHASE, PROVIDE NEW GYPSUM BOARD TO PATCH AND REPAIR WALL AS REQUIRED TO MATCH ADJACENT FINISH. MAINTAIN AND REPAIR ALL EXISTING LEAD SHIELDING.
- D12 EXISTING BASEPLATE TO BE REMOVED AND REPLACED WITH NEW BASEPLATE.

GENERAL DEMOLITION NOTES:

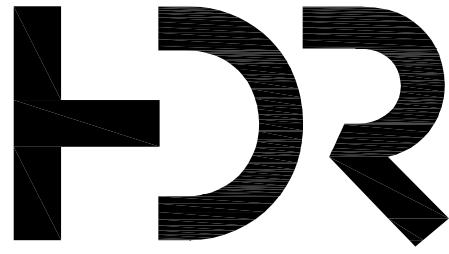
- A. ITEMS SHOWN DOTTED ON DEMOLITION DRAWINGS ARE TO BE REMOVED.
- B. PATCH AND REPAIR EXISTING PARTITION WHERE THE INSTALLATION OF NEW SERVICES HAS DAMAGED EXISTING PARTITION.
- C. CONTRACTOR IS RESPONSIBLE FOR THE INTEGRITY OF ALL FIRE SEPARATIONS IN EXISTING CONSTRUCTION TO REMAIN AND IN ALL NEW CONSTRUCTION. FIRESTOP ALL NEW AND EXISTING PENETRATIONS TO MATCH EXISTING RATING WITHIN AREA OF WORK.
- D. ELECTRICAL WORK MAY BE REQUIRED IN AREAS OTHER THAN INDICATED ON ARCHITECTURAL DRAWINGS. ALL AREAS DISTURBED BY THIS WORK TO BE REINSTATED TO MATCH EXISTING CONSTRUCTION.
- E. ALL EXISTING CEILINGS TO REMAIN UNLESS OTHERWISE NOTED.
- F. LOCATIONS FOR INFECTON CONTROL BARRIERS TO BE COORDINATED ON SITE WITH OWNER. PROVIDE TEMPORARY HOARDING AS REQUIRED TO COMPLETE WORK IN CORRIDORS & OTHER LOCATIONS OUTSIDE AREA OF WORK. HOARDING TO BE CONSTRUCTED IN ACCORDANCE WITH CSA 2317.13-03.
- G. CONTRACTOR IS TO ENSURE ALL EXISTING FLOORING TO REMAIN IS PROTECTED FOR ENTIRE DURATION OF CONSTRUCTION. ALL DAMAGED FLOOR FINISHES ARE TO BE PATCHED AND REPAIRED AT CONTRACTORS EXPENSE.
- H. ADDITIONAL WORK NOT INDICATED ON THIS DRAWING IS REQUIRED. REFER ALSO TO MECHANICAL & ELECTRICAL DRAWINGS.
- I. REMOVE ALL CONSTRUCTION SYSTEMS & MATERIALS INDICATED BY DASHED LINE IN THEIR ENTIRETY. PATCH & REPAIR ADJACENT AFFECTED AREAS TO MATCH EXISTING CONSTRUCTION.
- J. THOROUGHLY INSPECT ALL SURFACES INDICATED TO REMAIN. FULLY PATCH & REPAIR ANY VISIBLY DAMAGED AREAS TO MATCH EXISTING CONSTRUCTION & PREP FOR NEW FINISH.
- K. REMOVE ALL WALL & CEILING MOUNTED EQUIPMENT & FURNITURE AS REQUIRED TO COMPLETE SCOPE OF WORK. PATCH & REPAIR AFFECTED AREAS TO MATCH EXISTING CONSTRUCTION & PREP FOR NEW FINISH.
- L. CAREFULLY REMOVE EXISTING WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO: HAND SANITIZER DISPENSERS, SOAP DISPENSERS, PAPER TOWEL DISPENSERS, NAPKIN DISPOSALS, GRAB BARS, TOWEL RODS, CURTAIN RODS, WHITE BOARDS, TACK BOARDS, BLINDS, ETC. ALL ACCESSORIES SHALL BE TURNED OVER TO OWNER.
- M. IN ALL AREAS WHERE EXISTING ELECTRICAL OUTLETS, DATA BOXES, NURSE CALLS, ETC. ARE REMOVED OR RELOCATED, PATCH & REPAIR WALL TO MATCH EXISTING AND BE INCONSPICUOUS IN FINAL ASSEMBLY.
- N. CONTRACTOR TO PATCH, REPAIR AND REPAINT ANY AREAS DAMAGED OUTSIDE SCOPE OF WORK (IE: FLOORING, CEILING TILES).
- O. CAREFULLY REMOVE AND REINSTATE EXISTING CEILINGS OUTSIDE OF MAIN WORK AREA AS REQUIRED TO COMPLETE NEWS SCOPE OF WORK. COORDINATE LOCATIONS WITH MECHANICAL AND ELECTRICAL DRAWINGS.
- P. CUT AND PATCH AS REQUIRED FOR THE INSTALLATION OF ALL NEW MECHANICAL AND ELECTRICAL SERVICES. COORDINATE WITH MECHANICAL AND ELECTRICAL TO UNDERSTAND SCOPE. CONTRACTOR TO REINSTATE SHIELDING IN LOCATIONS OF CUTTING TO RECEIVE NEW MECHANICAL / ELECTRICAL SERVICES. REFER TO LEAD DETAILS ON SHEET A001.

EXISTING NOTES:

- E1 EXISTING GLOVE HOLDER TO REMAIN, REMOVE/REINSTATE AS REQUIRED TO COMPLETE SCOPE OF WORK.
- E2 EXISTING LEAD APRON HOLDER TO REMAIN, PROTECT AS REQUIRED DURING CONSTRUCTION
- E3 EXISTING GYPSUM BOARD BULKHEAD TO REMAIN AND RECEIVE NEW PAINT FINISH
- E4 EXISTING DOOR TO REMAIN, DOOR AND FRAME TO BE PAINTED
- E5 EXISTING GLAZING TO REMAIN, FRAME TO RECEIVE NEW PAINT FINISH. PROTECT GLAZING AS REQUIRED DURING CONSTRUCTION
- E6 EXISTING UNISTRUT RAILS AT CEILING LEVEL (X5) TO REMAIN.
- E6 EXISTING ROLLER SHADE TO REMAIN, PROTECT FROM CONSTRUCTION AS REQUIRED. REMOVE AND REINSTATE.

LEGEND:

- EXISTING INTERIOR PARTITION OR STRUCTURE TO REMAIN
- OBJECT TO BE REMOVED IN ITS ENTIRETY
- INDICATES EXISTING DOOR AND NUMBER TO REMAIN
- 1 HR FIRE RESISTANCE RATED PARTITION
- CEILING MOUNTED ELECTRICAL DEVICE TO BE REMOVED (LIGHTING, SPEAKER, SMOKE DETECTOR), REFER TO ELECTRICAL DRAWINGS.
- CEILING MOUNTED MECHANICAL DEVICE TO BE REMOVED (RETURN GRILLE), REFER TO MECHANICAL DRAWINGS.
- EXISTING ACT CEILING TO BE REMOVED
- INDICATES EXISTING CEILING TYPE AND HEIGHT
- INDICATES ROOM NAME AND NUMBER
- INDICATES NOTES, REFER TO DEMOLITION AND EXISTING NOTES



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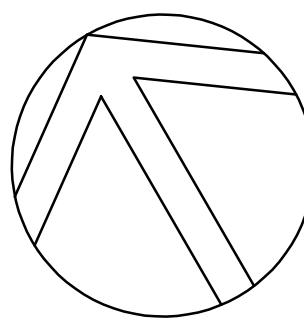
HOTEL DIEU HOSPITAL
UCC - GENERAL X-RAY
ROOM EQUIPMENT
REPLACEMENT

166 BROCK STREET, KINGSTON, ON

Project Manager	RH
Project Designer	
Project Architect	RM
Landscape Architect	
Civil Architect	
Structural Engineer	
Mechanical Engineer	WSP Canada Inc.
Electrical Engineer	WSP Canada Inc.
Interior Designer	
Equipment Planner	
Wayfinding	
Drawn By	RH

MARK	DATE	DESCRIPTION
01	2026/05/13	ISSUED FOR 50% REVIEW
02	2026/06/19	ISSUED FOR 100% REVIEW
03	2026/06/30	ISSUED FOR BIDDING / PERMIT

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PLO Proj. No.	PLO 26-012
MOHLTC #	-



Sheet Name

LEVEL 0 - DEMOLITION
PLAN & REFLECTED
CEILING PLAN

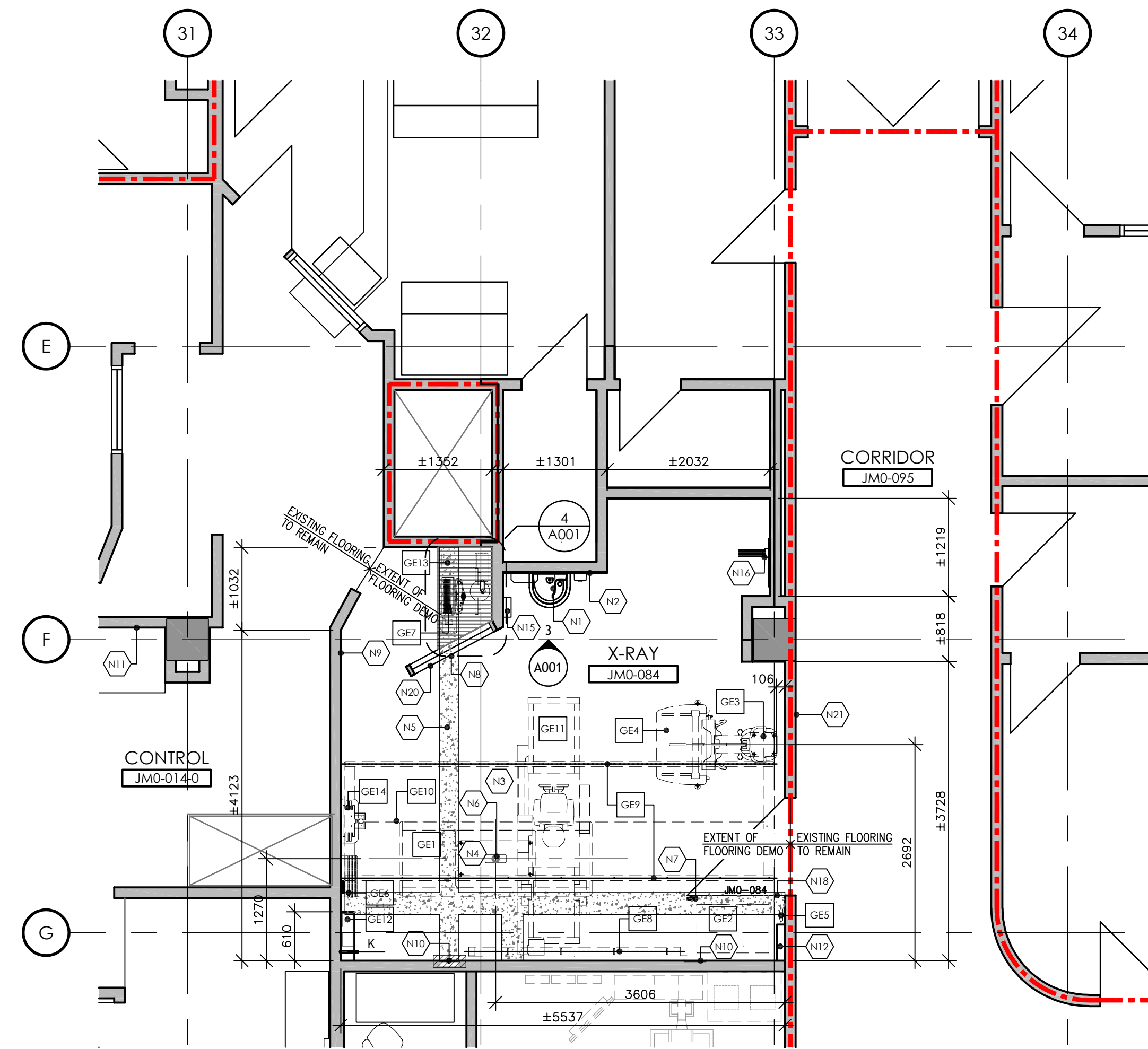
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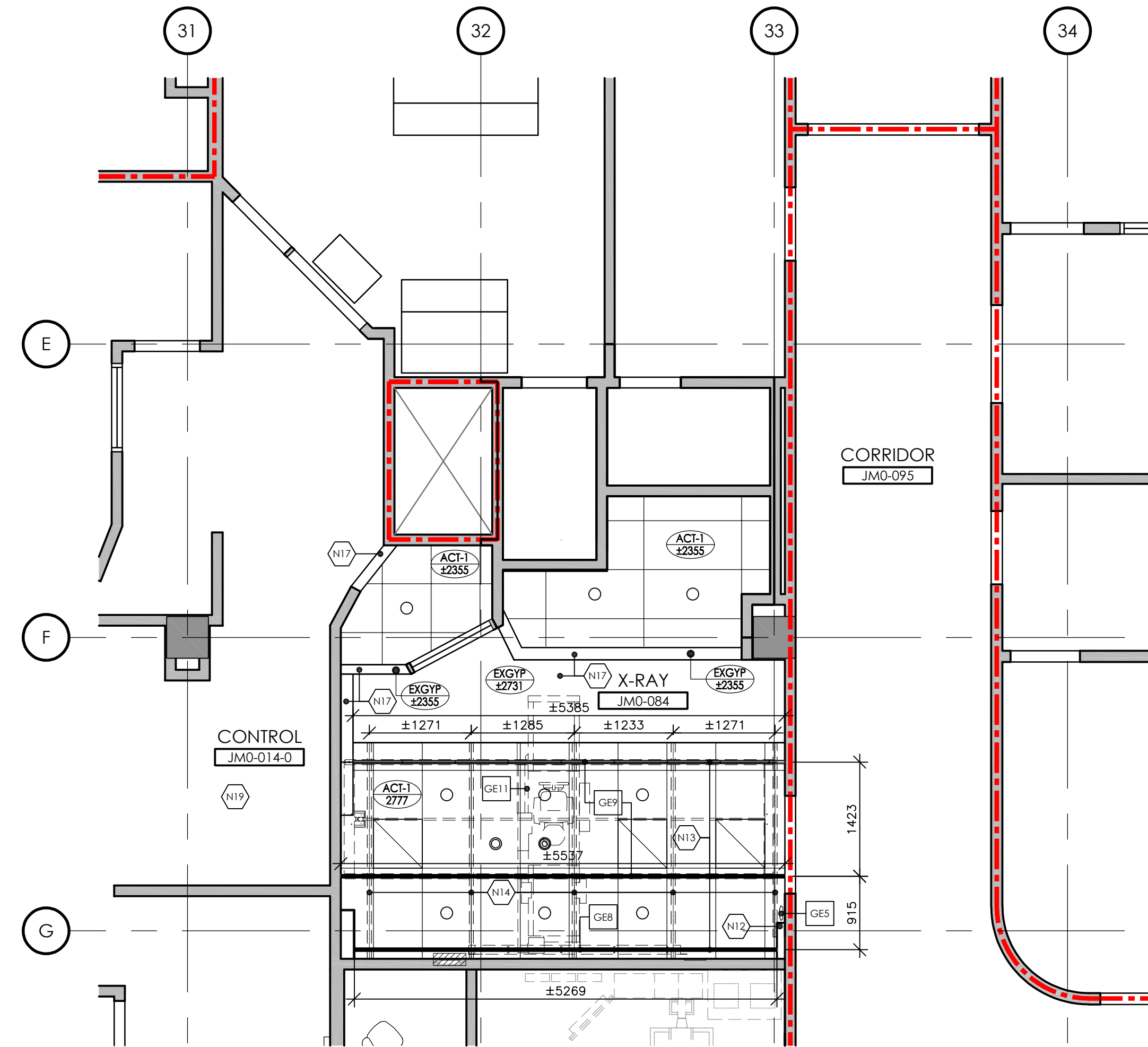
A050

Project Status

CONTRACT DOCUMENTS



1 LEVEL 0 NEW FLOOR PLAN
SCALE 1 : 50



2 LEVEL 0 NEW CEILING PLAN
SCALE 1 : 50

EQUIPMENT SCHEDULE:

GE1	BAMBOO TABLE *
GE2	VCP CABINET *
GE3	GLOBAL G3 STANDARD WALL STAND *
GE4	IMAGE PASTE BARRIER *
GE5	ACCESS POINT *
GE6	GRID HOLDER *
GE7	OPERATOR CONSOLE *
GE8	CABLE CHAIN SUPPORT *
GE9	LONGITUDINAL STATIONARY RAILS *
GE10	DRIVE BELT AND ANCHOR RAILS *
GE11	OTS WITH 3m BRIDGE WITH CABLE CHAIN *
GE12	MAIN DISCONNECT PANEL (MDP) **
GE13	PARTIAL UPS *
GE14	DETECTOR BIN (WALL MOUNTED) *

* PROVIDED/INSTALLED BY GE HEALTHCARE
** PROVIDED/INSTALLED BY ELECTRICAL CONTRACTOR, REFER TO ELECTRICAL DRAWINGS

NOTE: REFER TO GE HEALTHCARE EQUIPMENT DRAWINGS AND ELECTRICAL DRAWINGS FOR COORDINATION OF EQUIPMENT ITEMS.

NEW WORK NOTES:

- N1 REINSTATE THE EXISTING HAND HYGIENE SINK AND ACCESSORIES INCLUDING HS, SD & PTD.
- N2 PROVIDE NEW SOLID SURFACE WALL PROTECTION BEHIND SINK, FULL LENGTH OF EXISTING WALL. REFER TO ELEVATION DETAIL.
- N3 EXISTING FLOOR SLAB WITHIN ROOM TO BE LEVEL. TOLERANCE 6MM OVER A 3048MM DISTANCE.
- N4 NEW BASEPLATE, SUPPLIED BY GE AND INSTALLED BY CONTRACTOR. REFER TO GE HEALTHCARE DOCUMENTS FOR TABLE ANCHORING REQUIREMENTS.
- N5 INFILL EXISTING FLOOR TRENCHES WITH CONCRETE (C/W DOWELING INTO ADJACENT CONCRETE ON ALL SIDES) TO BE FLUSH WITH ADJACENT EXISTING FLOOR SLAB.
- N6 NEW CORE HOLE LOCATIONS COORDINATE WITH ELECTRICAL AND GE EQUIPMENT DRAWINGS FOR SIZE AND LOCATIONS.
- N7 PROVIDE FLOOR MOUNTED MAGNETIC DOOR HOLDER. COORDINATE WITH ELECTRICAL DRAWINGS.
- N8 PATCH AND REPAIR BASE OF EXISTING WALL AS REQUIRED DUE TO WORK TO REMOVAL AND INFILL OF FLOOR TRENCH.
- N9 PATCH REPAIR EXISTING WALL AS REQUIRED DUE TO ELECTRICAL REMOVALS. REFER ALSO TO ELECTRICAL DRAWINGS.
- N10 PATCH AND REPAIR EXISTING WALL INCLUDING SHIELDING DUE TO REMOVAL OF ELECTRICAL WALL DUCT / CHASE.
- N11 EXISTING WORKSTATION FOR WAITING ROOM MONITORING SYSTEM. OWNER TO PROVIDE NEW WALL MOUNT BRACKET FOR INSTALLATION BY CONTRACTOR. EXACT LOCATION TO BE COORDINATED ON-SITE WITH OWNER. PROVIDE NEW POWER AND DATA MOUNTED AT THE HEIGHT OF THE MONITOR. HEIGHT TO BE COORDINATED WITH OWNER ON-SITE. REFER ALSO TO ELECTRICAL DRAWINGS.
- N12 PROVIDE NEW SURFACE MOUNTED ELECTRICAL CHASE, COMPLETE WITH PRIME AND PAINT FINISH TO MATCH ADJACENT WALL. PROVIDE NEW CORE HOLES IN EXISTING SLAB AS REQUIRED FOR NEW ELECTRICAL WITHIN NEW ELECTRICAL CHASE. REFER TO ELECTRICAL.
- N13 PROVIDE NEW UNISTRUT RAILS (X3) CONNECTED TO EXISTING UNISTRUT SUPPORTS FOR THE SUPPORT OF NEW GE EQUIPMENT. COORDINATE WITH GE HEALTHCARE FOR REQUIRED LOADS OF EQUIPMENT. CONTRACTOR TO PROVIDE SHOP DRAWINGS STAMPED BY ENGINEER LICENSED IN ONTARIO.
- N14 EXISTING UNISTRUT RAILS (X5) ABOVE CEILING.
- N15 REINSTALL EXISTING GLOVE HOLDER TO REMAIN, REMOVE/REINSTATE AS REQUIRED TO COMPLETE SCOPE OF WORK.
- N16 EXISTING LEAD APRON HOLDER TO REMAIN, PROTECT AS REQUIRED DURING CONSTRUCTION.
- N17 EXISTING BULKHEAD TO RECEIVE NEW PRIME AND PAINT FINISH.
- N18 EXISTING DOOR AND FRAME TO RECEIVE NEW PRIME AND PAINT FINISH.
- N19 REINSTATE EXISTING CEILING DUE TO NEW MECHANICAL/ELECTRICAL SCOPE OF WORK. REFER ALSO TO MECHANICAL/ELECTRICAL DRAWINGS FOR EXTENT OF WORK.
- N20 EXISTING FRAME TO RECEIVE NEW PAINT FINISH. PROTECT GLAZING AS REQUIRED DURING CONSTRUCTION.
- N21 WEST SIDE OF CORRIDOR TO RECEIVE NEW PRIME AND PAINT FINISH FROM DOUBLE CORRIDOR TO DOUBLE CORRIDOR DOOR.

GENERAL NOTES:

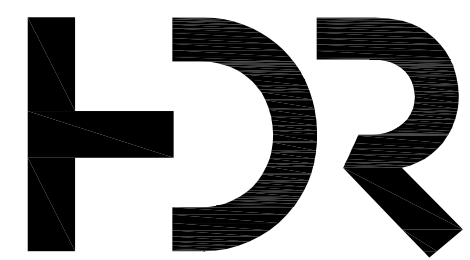
- ALL NEW & EXISTING PARTITIONS IN SCOPE TO RECEIVE PRIME AND 2 COATS OF NEW PAINT FINISH - ALSO REFER TO ROOM FINISH SCHEDULE.
- WHERE DEMOLITION HAS DAMAGED EXISTING FINISHES, PATCH & REPAIR TO MATCH EXISTING FINISHES.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF EXISTING FIRE SEPARATIONS AT PARTITIONS, CEILINGS AND FLOORS AT ALL TIMES.
- CONTRACTOR TO PROVIDE FIRE STOPPING SHOP DRAWINGS INCLUDING THE RELEVANT ULC REFERENCE NUMBER. COORDINATE WITH SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING FACILITY RESULTING FROM THIS CONSTRUCTION. ALL DAMAGES DONE TO EXISTING FLOORING, PARTITIONS AND CEILINGS TO BE REPAIRED AT CONTRACTOR'S EXPENSE.
- MECHANICAL AND OR ELECTRICAL WORK MAY BE REQUIRED IN AREAS NOT INDICATED ON ARCHITECTURAL DRAWINGS. REMOVE AND REINSTATE EXISTING CEILINGS & WALL FINISH AS REQUIRED TO COMPLETE SCOPE OF WORK. PATCH & REPAIR ALL SURFACES DAMAGED BY THIS WORK TO MATCH EXISTING ADJACENT FINISHES.
- FINISH FLOOR TO BE LEVEL THROUGHOUT. INSTALL CEMENTITIOUS MATERIAL AS REQUIRED TO FILL DEPRESSIONS AND GRIND OR CHIP ELEVATED AREAS TO ENSURE SMOOTH, LEVEL FINISH FLOOR READY TO RECEIVE NEW FLOOR FINISHES.
- PRIOR TO CORING, SCAN FLOOR FOR REBAR & CONCEALED SERVICES. REVIEW LOCATION WITH CONSULTANT PRIOR TO CORING. ALLOW 48 HOURS FOR REVIEW.
- WHERE NEW FLOORING ABUTS EXISTING FLOORING, GRIND AND OR PROVIDE CEMENTITIOUS MATERIAL TO ENSURE THAT ALL TRANSITIONS ARE LEVEL THROUGHOUT.
- ALL FURNITURE & EQUIPMENT IS SHOWN AS HIDDEN LINES AND FOR COORDINATION PURPOSES ONLY AND NOT IN CONTRACT (N.I.C.) UNLESS NOTED OTHERWISE.
- PATCH AND REPAIR EXISTING WALL TO MATCH ADJACENT FINISH WHERE NEW ELECTRICAL REQUIRES EXISTING WALL TO BE OPEN TO RUN NEW ELECTRICAL INCLUDING NEW CORE HOLE LOCATIONS WITH THE WALL.
- WHERE EXISTING WALLS ARE OPENED TO INSTALL, NEW WORK, PATCH AND REPAIR AND MAINTAIN ALL EXISTING LEAD SHIELDING.
- CONTRACTOR TO COORDINATE WITH ELECTRICAL AND MECHANICAL AND REMOVE AND REINSTATE EXISTING FINISHES (INCLUDING LEAD SHIELDING) AS REQUIRED TO COMPLETE NEW SCOPE OF WORK.

LEGEND

- EXISTING INTERIOR PARTITION OR STRUCTURE
- NEW GYPSUM BOARD PARTITION & WALL TYPE TAG - REFER TO DWG. A001
- EXISTING DOOR TO REMAIN
- 1 HR FIRE RESISTANCE RATED PARTITION
- INDICATES NEW MILLWORK

REFLECTED CEILING LEGEND

- INDICATES NEW CEILING GRID AND TILE, REFER TO SPEC FOR TYPE
- INDICATES NEW CEILING MOUNTED ELECTRICAL DEVICE INCLUDING LIGHT FIXTURE, SMOKE DETECTOR, SPEAKER - REFER TO ELECTRICAL DRAWINGS
- INDICATES CEILING HEIGHT AND MATERIAL
- INDICATES NOTES, REFER TO NEW WORK AND EQUIPMENT NOTES



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HOTEL DIEU HOSPITAL UCC - GENERAL X-RAY ROOM EQUIPMENT REPLACEMENT

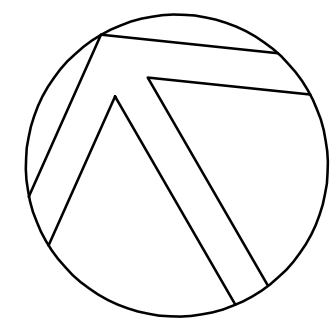
166 BROCK STREET, KINGSTON, ON

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Mechanical Engineer	WSP Canada Inc.
Electrical Engineer	WSP Canada Inc.
Interior Designer	
Equipment Planner	
Wayfinding	
Drawn By	RH

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LEVEL 0 - NEW WORK PLAN & REFLECTED CEILING PLAN

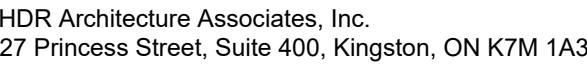
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Sheet Number

A100

Project Status

CONTRACT DOCUMENTS



HOTEL DIEU HOSPITAL UCC - GENERAL X-RAY ROOM EQUIPMENT REPLACEMENT

Project Manager	RH
Project Designer	
Project Architect	RM
Landscape Architect	
Civil Architect	
Structural Engineer	
Mechanical Engineer	WSP Canada Inc.
Electrical Engineer	WSP Canada Inc.
Interior Designer	
Equipment Planner	
Wayfinding	
Drawn By	ET

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MOHLTC #	-



M100

Project Status



	HWS	HOT WATER HEATING SUPPLY
	HWR	HOT WATER HEATING RETURN
		PIPE UP TO ABOVE
		PIPE DOWN TO BELOW
		PIPE CONNECTION TO ABOVE
		PIPE CONNECTION TO BELOW

	RIGID DUCTWORK		BALANCING DAMPER
	HIDDEN DUCTWORK		FIRE DAMPER
	SUPPLY DUCT UP TO ABOVE		COMBINATION FIRE/SMOKE DAMPER
	RETURN DUCT UP TO ABOVE		DIRECTION OF AIRFLOW
	EXHAUST DUCT UP TO ABOVE		DIFFUSER TAG
	SUPPLY DUCT DOWN TO BELOW	A. SIZE (mm)	
	RETURN DUCT DOWN TO BELOW	B. TYPE (SEE SCHEDULE)	
	EXHAUST DUCT DOWN TO BELOW	C. AIRFLOW (L/s)	
	SUPPLY DIFFUSERS		COMBINATION TEMPERATURE/HUMIDITY SENSOR
	RETURN / TRANSFER GRILLE		CONTROL WIRE
	SUPPLY GRILLE		ANALOG INPUT
	EXHAUST GRILLE		ANALOG OUTPUT
			DIGITAL INPUT
			DIGITAL OUTPUT

O	SPRINKLER HEAD
— F —	EXISTING SPRINKLER PIPE
— F —	NEW SPRINKLER PIPE
~	PIPE CONTINUATION
C	PIPE CAP

_____ EXISTING TO REMAIN
 _____ EXISTING TO BE REMOVED
 _____ NEW WORK

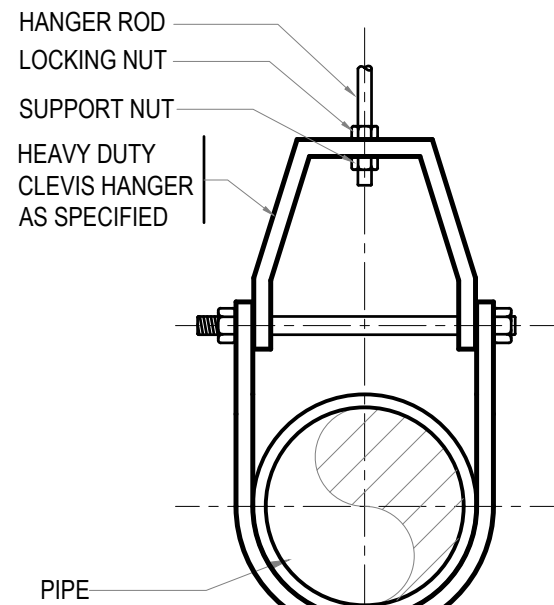
1. PIPING REMOVALS TO INCLUDE HANGERS, SUPPORTS, RISERS, VALVES AND ALL OTHER ASSOCIATED EQUIPMENT.
2. REMOVE ALL REDUNDANT PIPING BACK TO MAIN AND CAP.
3. PROVIDE TEMPORARY MEASURES AS REQUIRED TO MAINTAIN DRAINAGE AND VENTING OF SANITARY SERVICES WITHIN EXISTING STRUCTURE UNDER THIS CONTRACT THROUGHOUT DURATION OF CONSTRUCTION.
4. PROVIDE TEMPORARY MEASURES AS REQUIRED TO MAINTAIN DRAINAGE NOT AFFECTED BY WORK WITHIN EXISTING STRUCTURE WHICH MAY BE AFFECTED BY CONSTRUCTION WORK UNDER THIS CONTRACT THROUGHOUT THE DURATION OF CONSTRUCTION.
5. PROVIDE TEMPORARY MEASURES AS REQUIRED TO MAINTAIN EXISTING AIRFLOWS TO AREAS AFFECTED BY WORK THAT ARE TO REMAIN OCCUPIED THROUGHOUT CONSTRUCTION.

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, MEASUREMENTS AND OBSTRUCTIONS AND NOTIFY OWNER OF ANY OBSERVED OBSTRUCTIONS NOT INDICATED IN THIS PROJECT MANUAL WHICH WOULD INHIBIT THE WORK TO BE PERFORMED AS INDICATED PRIOR TO TENDER CLOSE.
2. FLOORS SHALL BE SCANNED BEFORE ANY CORING IS DONE. COORDINATE WITH GENERAL CONTRACTOR.
3. EXACT ROUTING OF PIPING INDICATED SHALL BE COORDINATED WITH ALL OTHER TRADES.
4. PROVIDE COMPLETE, FULLY TESTED AND OPERATIONAL MECHANICAL SYSTEMS TO MEET THE REQUIREMENTS DESCRIBED HEREIN AND IN COMPLETE ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.
5. FOLLOW MANUFACTURERS' RECOMMENDED INSTALLATION DETAILS AND PROCEDURES FOR EQUIPMENT, SUPPLEMENTED BY REQUIREMENTS OF CODES AND ORDINANCES.
6. PROVIDE ACCESS PANELS ON GYPSUM CEILINGSWALLS AS REQUIRED TO ACCESS BALANCING DAMPERS, FIRE DAMPERS, BALANCING VALVES, ISOLATION VALVES, AND ALL OTHER DUCT AND PIPING ACCESSORIES. COORDINATE ALL CUTTING REQUIREMENTS WITH THE GENERAL CONTRACTOR.
7. COORDINATE ALL FINISHING AND PATCHING REQUIREMENTS OF EXISTING BUILDING STRUCTURES AS REQUIRED TO ACCOMMODATE DEMOLITION AND NEW WORK REPAIR ANY DAMAGE CAUSED BY DEMOLITION WORK. CUTTING AND PATCHING IS BY GENERAL CONTRACTOR.
8. PROVIDE PRE- AND POST-WORK SUPPLY AND RETURN AIRFLOW READINGS WITHIN RENOVATION AREA.

1. HOT PIPING LESS THAN NPS 1 1/4, STEEL & COPPER WITH LESS THAN 25mm (1") HORIZONTAL MOVEMENT DUE TO THERMAL EXPANSION.
2. HOT PIPING LESS THAN NPS 1 1/4, STEEL & COPPER WITH MORE THAN 300mm (12") HANGER ROD ATTACHMENT.

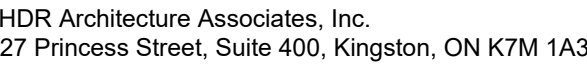


1. UNINSULATED PIPE



EXISTING MECHANICAL SYSTEMS SHOWN ARE DIAGRAMMATIC AND ARE BASED ON ORIGINAL DRAWINGS. THE DRAWING MAY NOT REPRESENT "AS-BUILT" CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ON SITE, PRIOR TO TENDER CLOSE, THE EXTENT AND CONFIGURATION OF EXISTING MECHANICAL SYSTEMS AND ALLOW FOR ADDITIONAL REMOVALS AS DETERMINED. NO EXTRAS WILL BE ALLOWED FOR FAILURE OF THE CONTRACTOR IN COMPLETING A THOROUGH REVIEW OF THE SITE PRIOR TO SUBMITTING A TENDER PRICE.

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Centre des sciences de
la santé de Kingston

HOTEL DIEU HOSPITAL UCC - GENERAL X-RAY ROOM EQUIPMENT REPLACEMENT

166 BROCK STREET, KINGSTON, ON

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Project Architect	RM
Landscape Architect	
Civil Architect	
Structural Engineer	
Mechanical Engineer	WSP Canada Inc.
Electrical Engineer	WSP Canada Inc.
Interior Designer	
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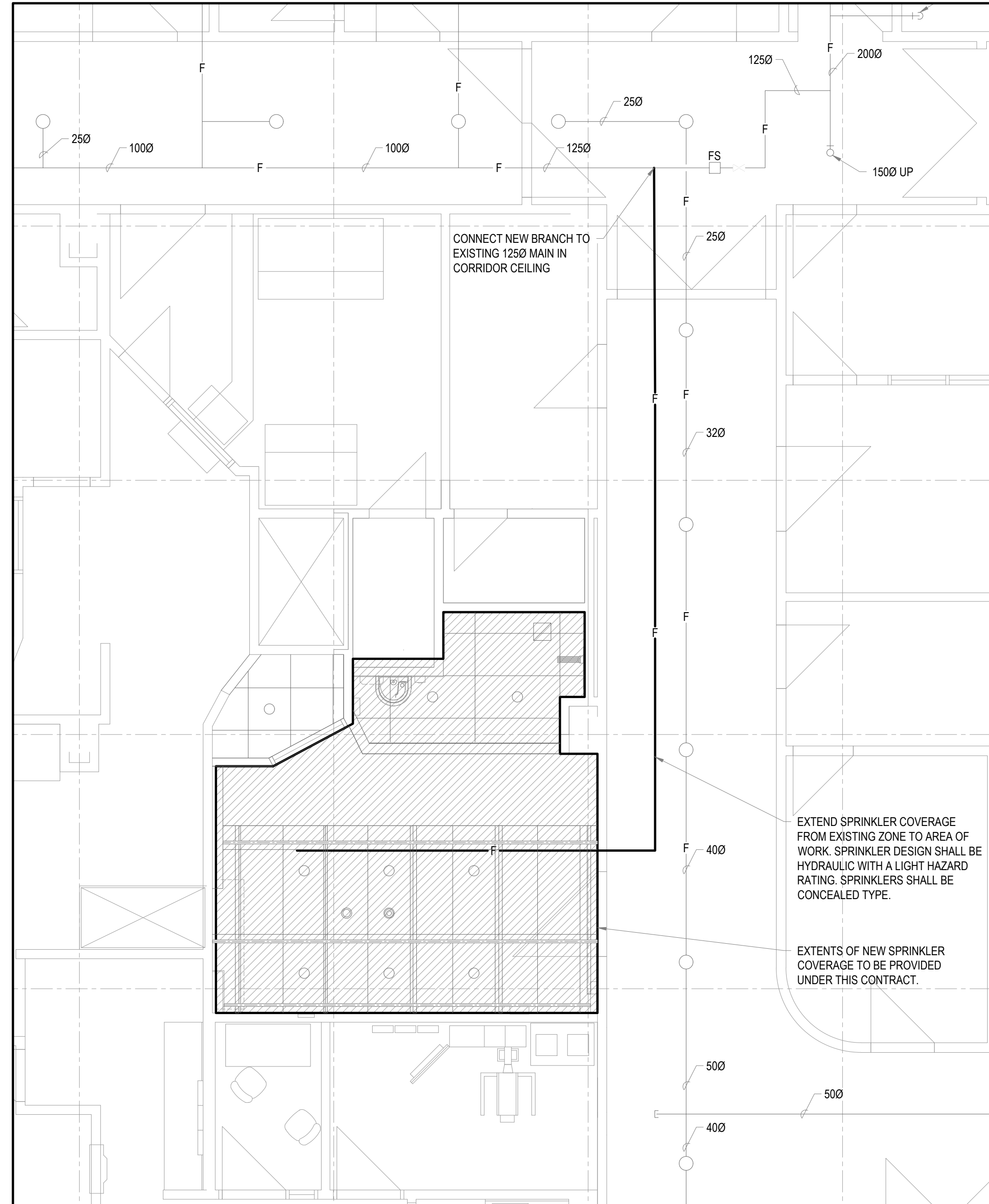
LEVEL 0 FIRE PROTECTION AND PLUMBING NEW WORK

Scale AS NOTED

Sheet Number

M201

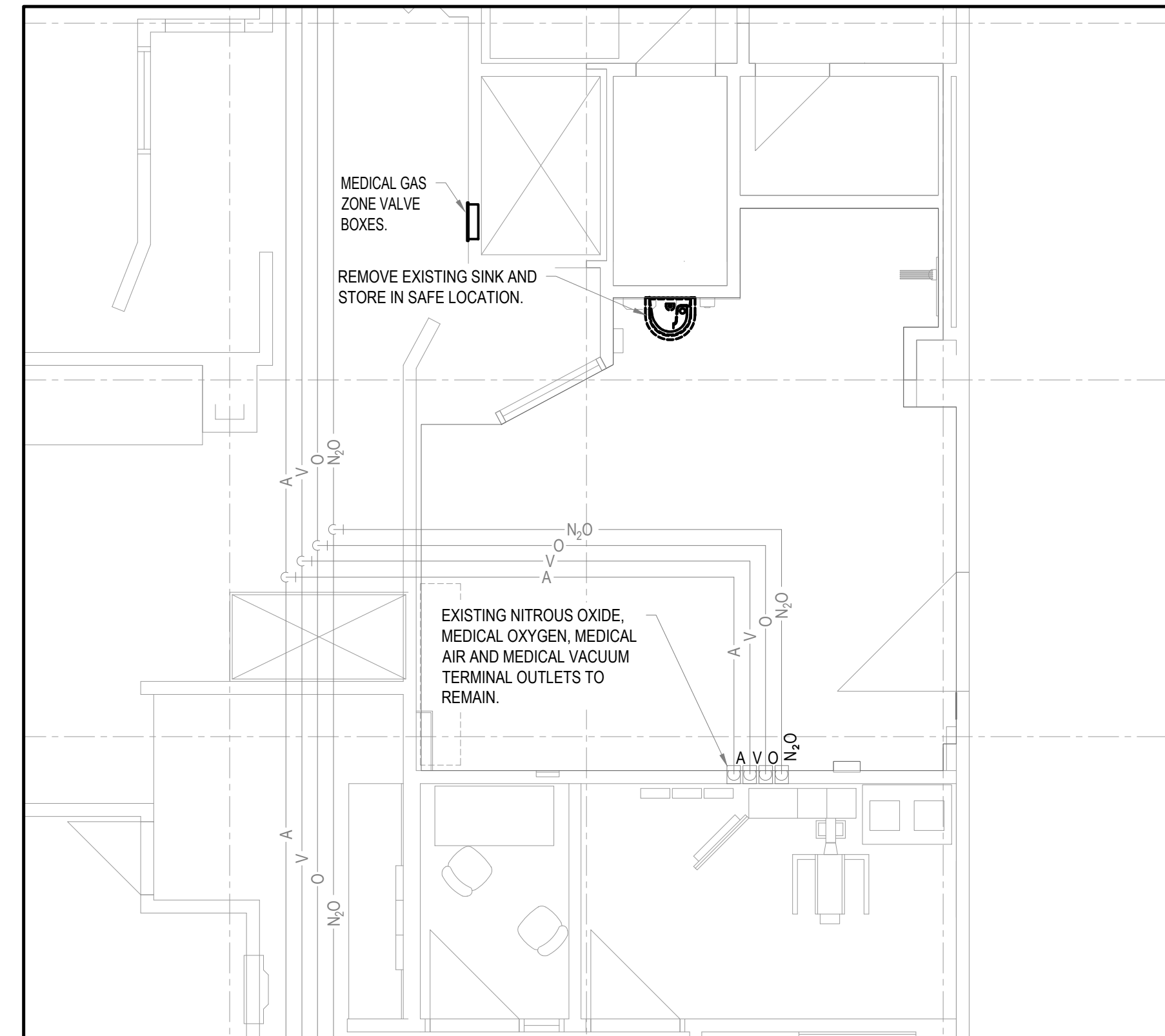
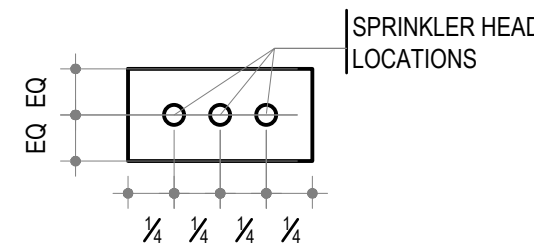
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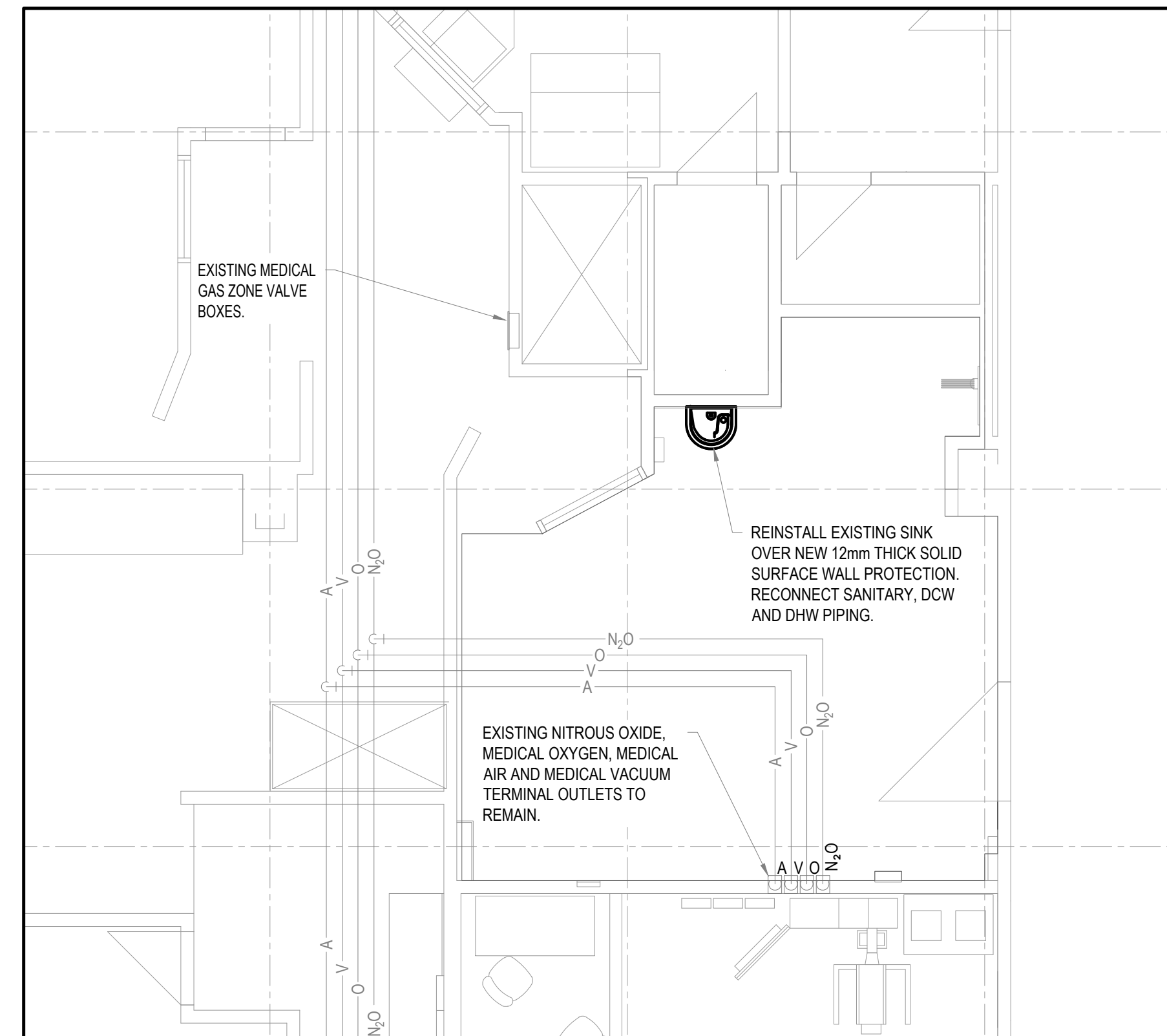
1 PARTIAL LEVEL 0 - FIRE PROTECTION NEW WORK
M201 SCALE: 1:50

FIRE PROTECTION NOTES

1. SPRINKLER WORK TO MEET NFPA 13.
 2. SPRINKLER COVERAGE TO BE LIGHT HAZARD, UNLESS OTHERWISE NOTED.
 3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CEILING LAYOUTS, TYPES, AND HEIGHTS.
 4. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING LAYOUT COORDINATION.
 5. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER/GRILLE LAYOUT COORDINATION.
 6. SPRINKLER SYSTEM LAYOUT SHALL BE CLOSELY COORDINATED WITH DUCTWORK, PLUMBING, ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL ELEMENTS. PIPING SHOWN ON DRAWINGS IS FOR GUIDANCE AND GENERAL ROUTING ONLY. SPRINKLER CONTRACTOR SHALL PROVIDE ALL NECESSARY PIPING FITTINGS REQUIRED FOR INSTALLATION.
 7. SPRINKLER CONTRACTOR TO CHECK SPRINKLER COVERAGE AND PROVIDE HEADS TO MEET NFPA 13 SPACING, OBSTRUCTION RULES OR COVERAGE REQUIREMENTS.
 8. NO PENETRATIONS ARE PERMITTED THROUGH BLOCK LINTELS OR BOND BEAMS, UNLESS APPROVED BY STRUCTURAL ENGINEER.
 9. SPRINKLER INSTALLATION TO BE CONCEALED IN AREAS WITH FINISHED CEILINGS AND EXPOSED IN AREAS OF EXPOSED CONSTRUCTION.
 10. SPRINKLER MAINS AND BRANCH LINES ARE NOT TO BE ROUTED WHERE CABLE TRAY IS LOCATED.
 11. MAINTAIN 900mm CLEARANCE FROM ALL MECHANICAL AND ELECTRICAL EQUIPMENT AND VALVES WITHIN CEILING SPACE.
 12. CONTRACTOR SHALL COORDINATE SPRINKLER HEAD LAYOUTS WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL SYSTEMS IN ORDER TO AVOID OBSTRUCTION OF SPRINKLER HEAD.
 13. SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF TILES IN T-BAR CEILINGS IN ONE OF THE FOLLOWING LOCATIONS:
- The diagram illustrates the four possible locations for a sprinkler head within a square tile. The tile is divided into four equal quadrants by a vertical center line and a horizontal center line. The locations are marked with circles and labeled 1, 2, 3, and 4. A label 'SPRINKLER HEAD LOCATIONS' points to the diagram.



2 PARTIAL LEVEL 0 - PLUMBING AND MEDICAL GAS DEMOLITION
M201 SCALE: 1:50



3 PARTIAL LEVEL 0 - PLUMBING AND MEDICAL GAS NEW WORK
M201 SCALE: 1:50

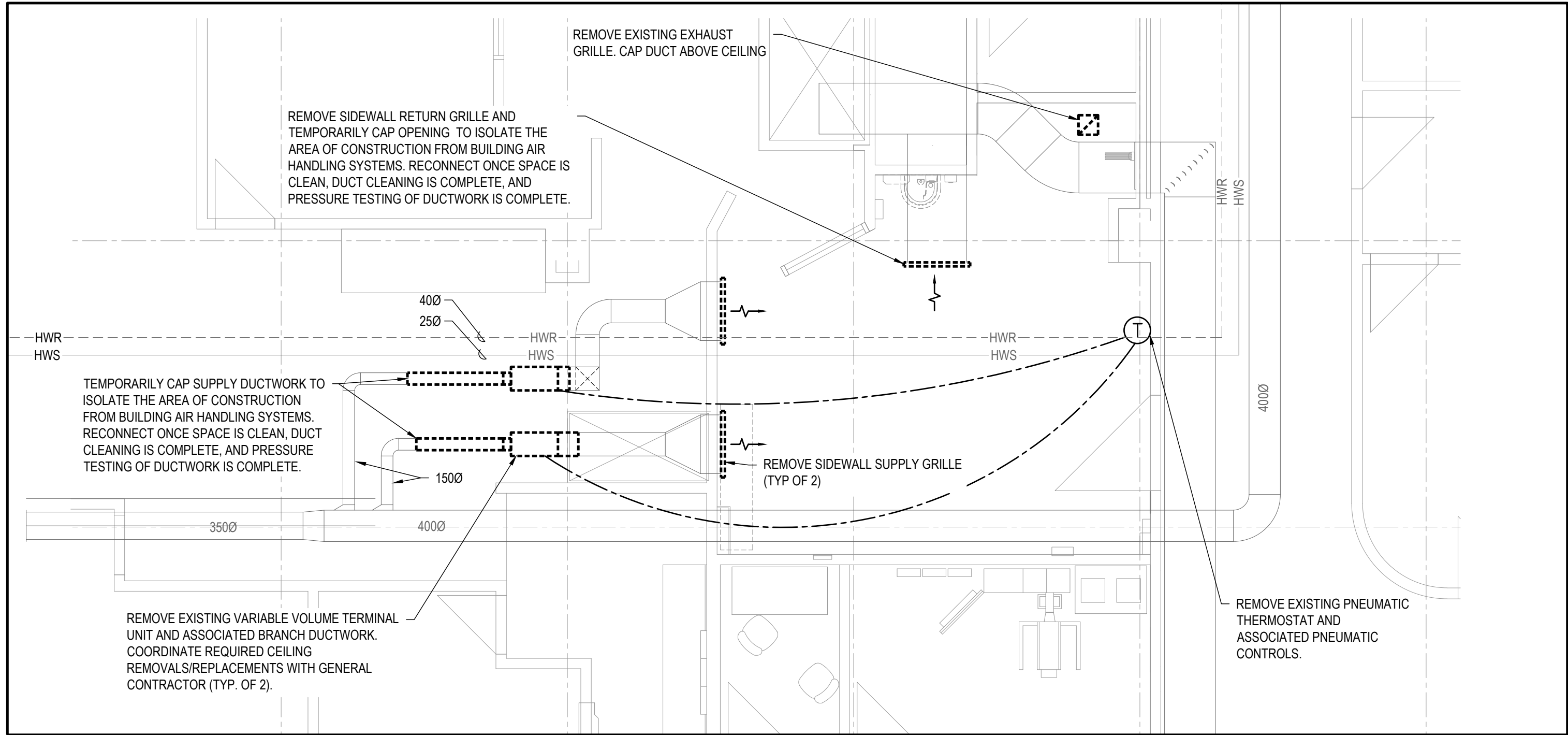
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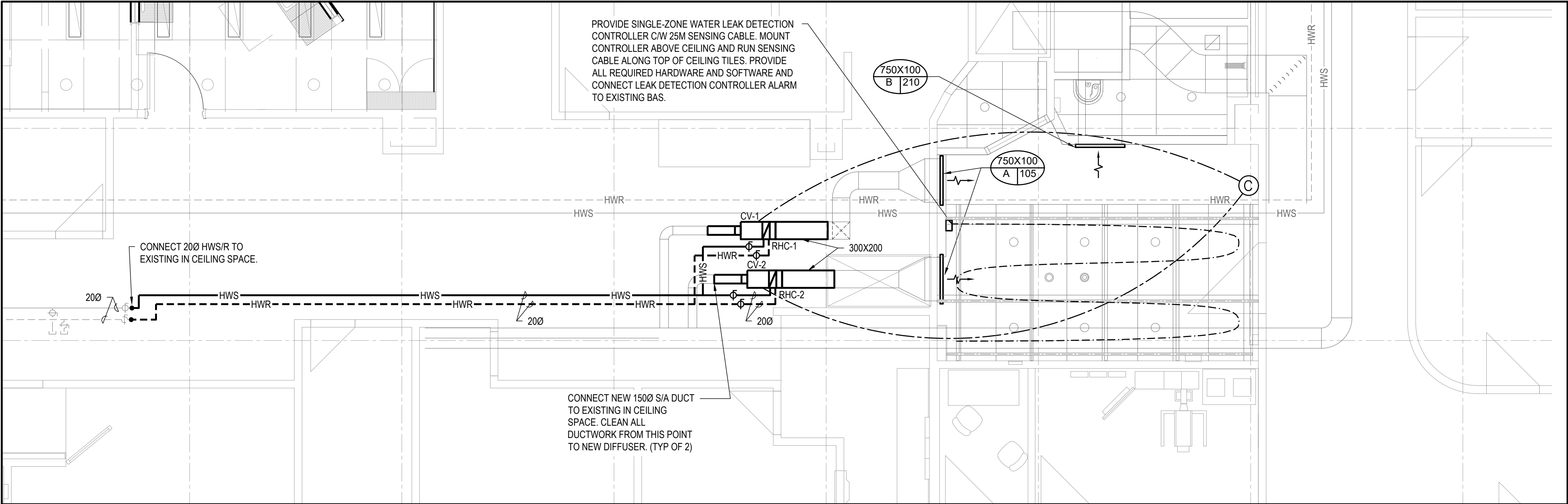
GRILLE & DIFFUSER SCHEDULE		
DESIGNATION	A	B
FUNCTION	SUPPLY	RETURN
MANUFACTURER	EH PRICE	EH PRICE
MODEL	620, DBL DEFLECTION, 20° UPWARD	630
FASTENING/FRAME	SIDEWALL	SIDEWALL
FINISH	WHITE	WHITE
ACCESSORIES	-	-
REMARKS	SIZE AS NOTED ON DRAWING	SIZE AS NOTED ON DRAWING
ALTERNATES	KRUEGER, TITUS, NAILOR HART	KRUEGER, TITUS, NAILOR HART

TERMINAL UNIT SCHEDULE														
TAG	AIRFLOW L/S	MINIMUM AIRFLOW L/S	INLET SIZE (mm)	DESIGNATION	EAT (°C)	EWT (°C)	DUCT SIZE	REHEAT COILS (INTEGRAL TO TERMINAL UNITS)						
								AIR FLOW (L/S)	CAPACITY (KW)	LAT (°C)	LWT (°C)	APD (Pa)	WPD (KPa)	WATER FLOW (L/S)
CV-1	95	95	1500	RHC-1	12.8	82	300x200	105	1.8	26.7	68	40	37	0.03
CV-2	95	95	1500	RHC-2	12.8	82	300x200	105	1.8	26.7	68	40	37	0.03

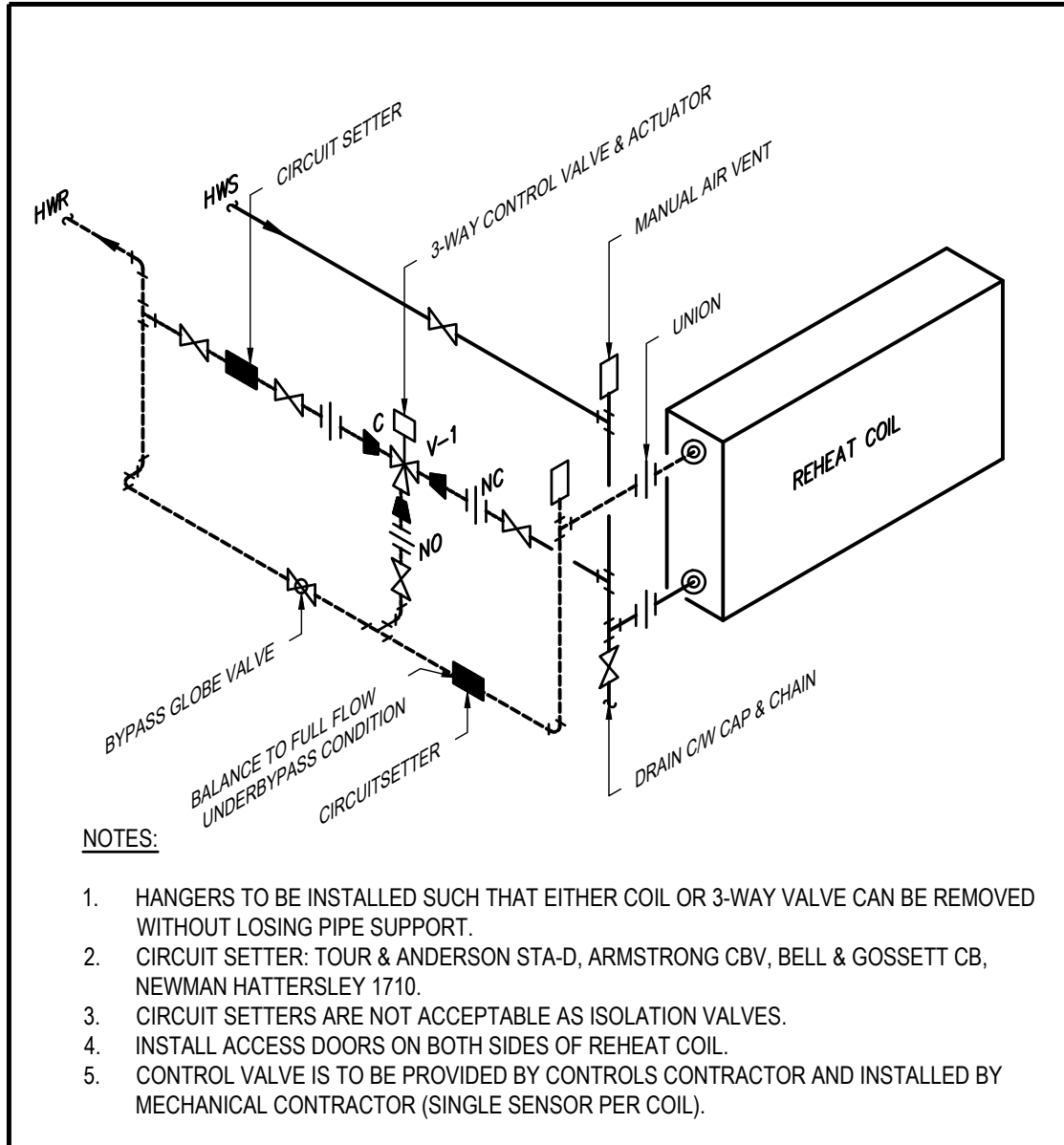
NOTES: 1. COIL INSTALLATIONS C/W ACCESS DOORS UPSTREAM AND DOWNSTREAM OF COIL.
2. CV BOXES ARE BASED ON E.H. PRICE SDV SERIES C/W FACTORY SUPPLIED OUTLET ATTENUATORS WITH FIBER-FREE INSULATION
3. CV BOXES ARE LINED WITH 25mm THICK FIBER-FREE FOAM INSULATION FOR ACOUSTIC DAMPENING



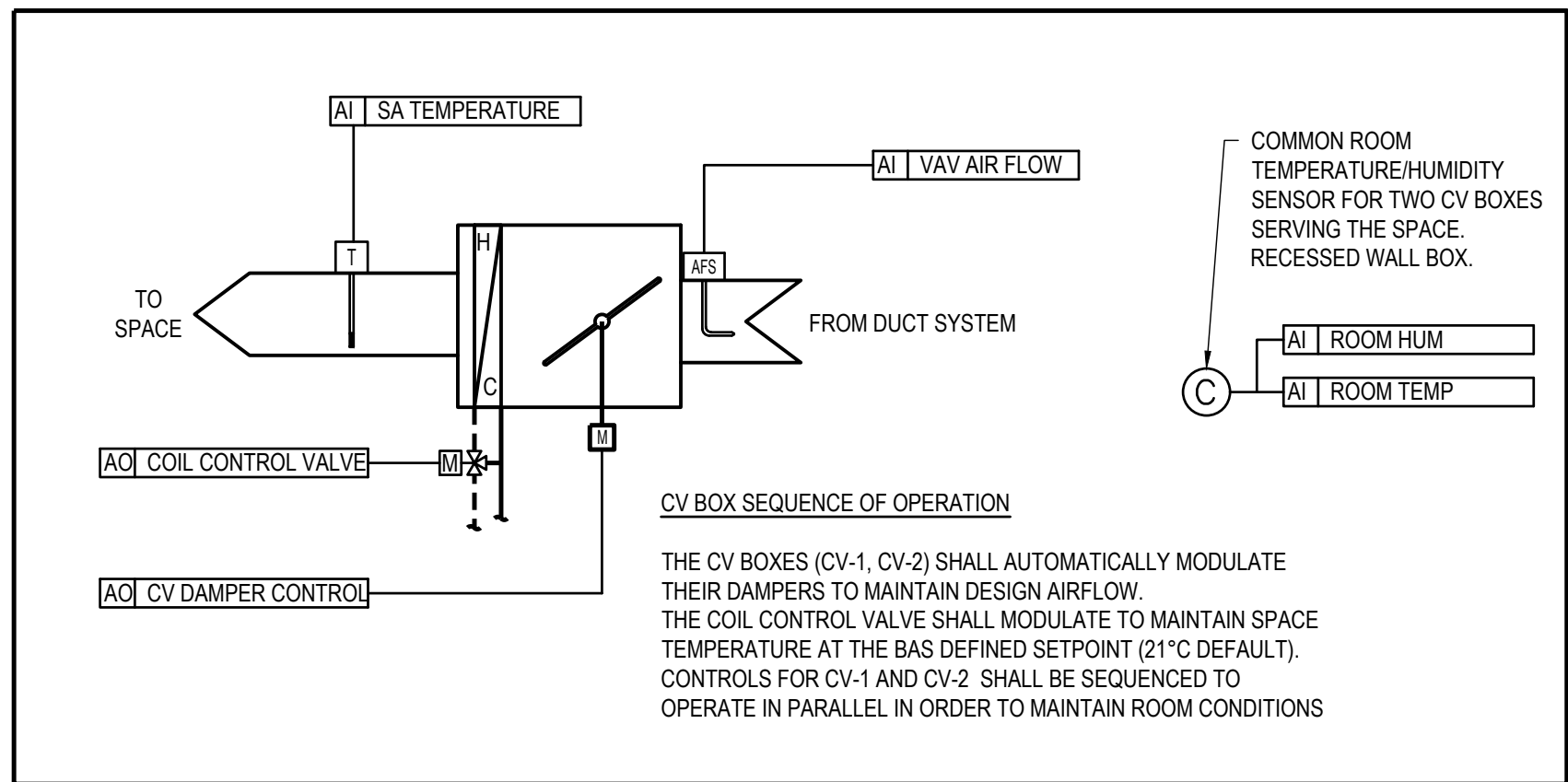
1 PARTIAL LEVEL 0 - HVAC SYSTEMS DEMOLITION
M301 SCALE: 1:50



2 PARTIAL LEVEL 0 - HVAC SYSTEMS NEW WORK
M301 SCALE: 1:50



3 TYPICAL HEATING COIL SCHEMATIC
M301 SCALE: NTS



4 TYPICAL TERMINAL UNIT SCHEMATIC
M301 SCALE: NTS

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HDR

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WSP

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HOTEL DIEU HOSPITAL
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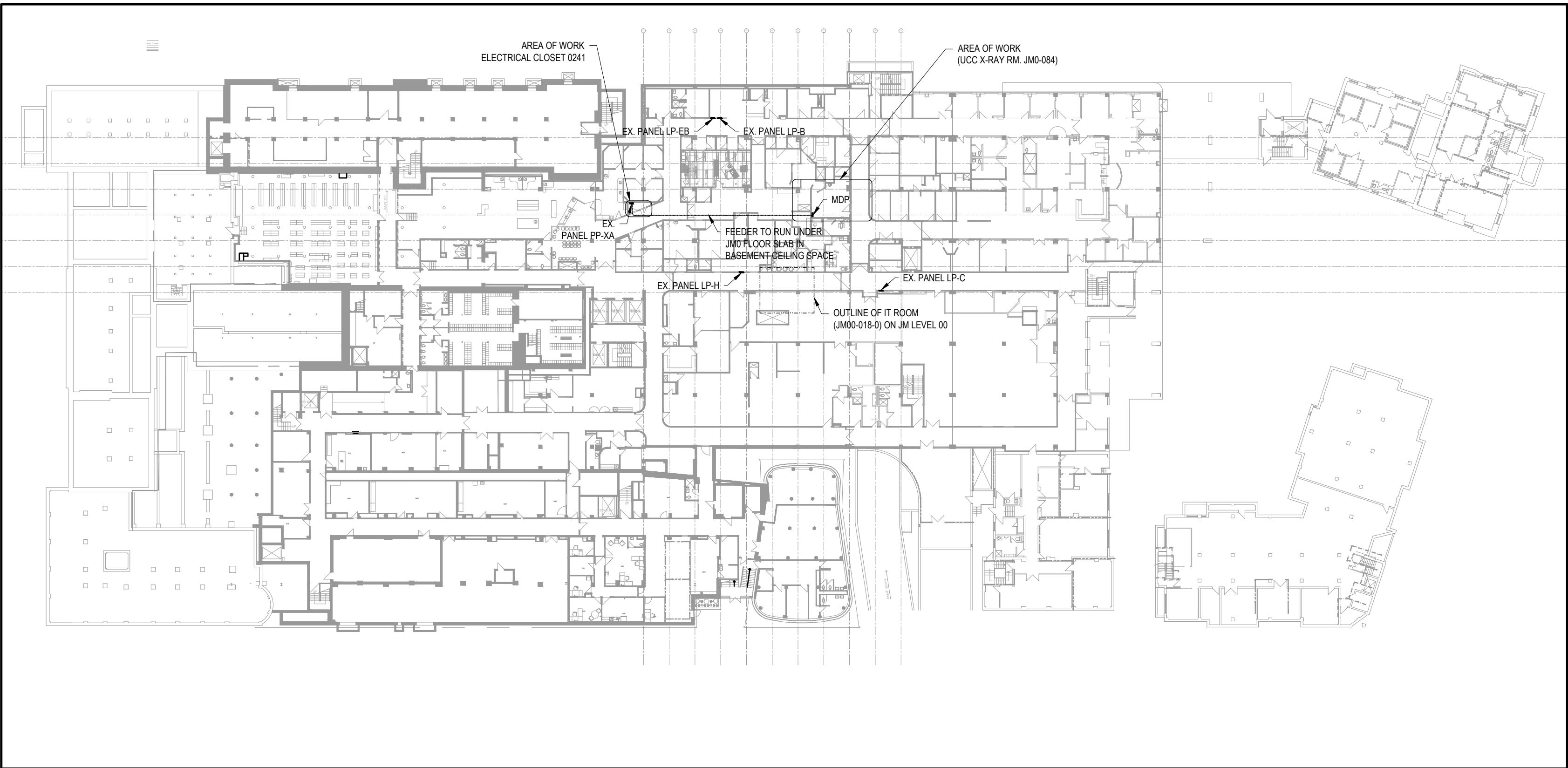
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**LEVEL 0
HVAC DEMOLITION
AND
NEW WORK PLANS**

Scale AS NOTED

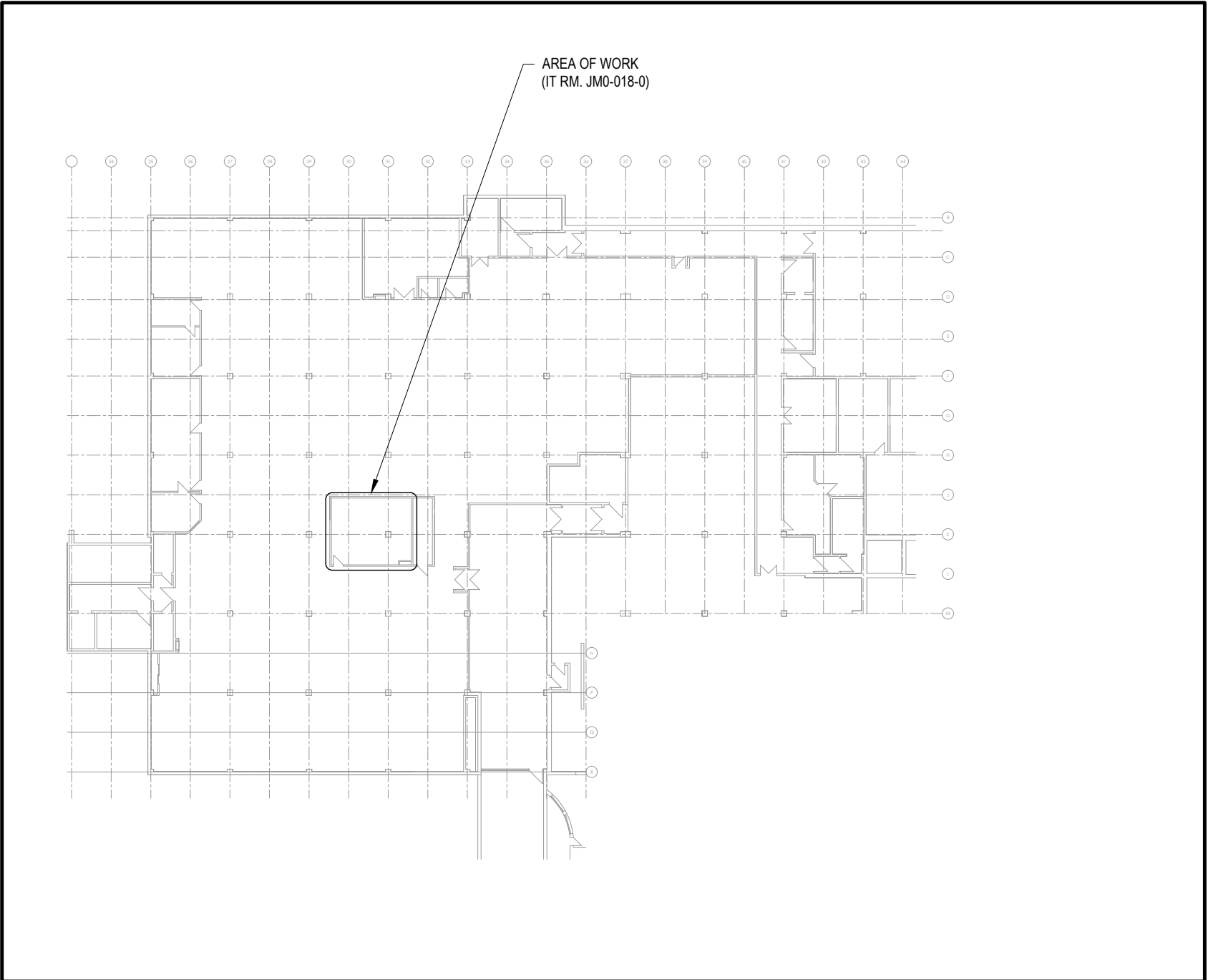
Sheet Number

M301

Project Status



1
E000
JEANNE MANCE LEVEL 0 - KEY PLAN AND PANEL LOCATIONS
SCALE: 1:500



2
E000
JEANNE MANCE LEVEL 00 - PARTIAL FLOOR PLAN
SCALE: 1:500

ELECTRICAL DEMO/EXISTING LEGEND

- REMOVE 600 x 600mm RECESSED LIGHT FIXTURE
- REMOVE RECESSED DOWNLIGHT
- REMOVE X-RAY IN USE WARNING LIGHT
- REMOVE DIMMER SWITCH
- REMOVE 3-WAY DIMMER SWITCH
- REMOVE 3-WAY TOGGLE SWITCH
- REMOVE EMERGENCY OFF PUSH BUTTON
- REMOVE EQUIPMENT DIRECT CONNECTION
- REMOVE AND REINSTALL RECEPTACLE
- REMOVE AND REINSTALL CLOCK
- EXISTING RECEPTACLE
- EXISTING DATA OUTLET
- REMOVE AND REINSTALL FIRE ALARM SMOKE DETECTOR
- REMOVE AND REINSTALL FIRE ALARM SPEAKER
- EXISTING NURSE CALL DEVICE

ABBREVIATIONS LEGEND

- | | | | |
|----|------------------|-----|----------------------|
| CM | CEILING MOUNTED | HL | HIGH LEVEL |
| E | EMERGENCY POWER | RR | REMOVE AND REINSTALL |
| R | REINSTALL DEVICE | EX. | EXISTING TO REMAIN |
| CW | COMPLETE WITH | JB | JUNCTION BOX |
| CH | COUNTER HEIGHT | | |

ELECTRICAL LEGEND

- PROVIDE 600 X 600mm LED FLAT PANEL LIGHT FIXTURE. STANDARD OF ACCEPTANCE SYLVANIA MODEL # PANELF3B5035UNVD8SC722GWH.
- PROVIDE 150mm LED DOWNLIGHT C/W 0-10V DIMMING. STANDARD OF ACCEPTANCE COOPER HALO MODEL# LCR6-15-9FS-E010-MW.
- X-RAY IN USE WARNING LIGHT (WALL MOUNTED)
- X-RAY ROOM WARNING LIGHT CONTROLLER
- PROVIDE EMERGENCY BATTERY UNIT C/W DUAL LIGHT HEADS. STANDARD OF ACCEPTANCE EMERGI-LITE MODEL# 06ESL-72-U/2-LA
- PROVIDE DUAL REMOTE HEADS MR16 LED 6V 4W
- PROVIDE 15A 120V RECEPTACLE
- REINSTALL CLOCK
- PROVIDE QUAD DATA OUTLET C/W FOUR (4) CAT 6 CABLES IN 27MM C BACK TO IT ROOM
- PROVIDE ONE DATA OUTLET C/W ONE (1) CAT 6 CABLES IN 21MM C BACK TO IT ROOM
- REINSTALL FIRE ALARM SMOKE DETECTOR
- REINSTALL FIRE ALARM SPEAKER
- PROVIDE SMOKE DETECTOR W/ RELAY BASE
- PROVIDE FLOOR MOUNTED ELECTROMAGNETIC DOOR HOLD OPEN DEVICE
- PROVIDE DOOR INTERLOCK SWITCH
- PROVIDE 0-10V DIMMER C/W TOGGLE SWITCH AND SLIDE DIMMER.
- PROVIDE 0-10V DIMMER C/W 3-WAY TOGGLE SWITCH AND SLIDE DIMMER.
- PROVIDE 3-WAY TOGGLE SWITCH.
- PROVIDE EMERGENCY OFF PUSH BUTTON (EPO) C/W TWO(2) NORMALLY CLOSED CONTACTS AND A PUSH-TO-LATCH / TWIST-TO-RELEASE BUTTON.
- PROVIDE FIRE ALARM ADDRESSABLE CONTROL MODULE.

DRAWING LIST

- E000 KEY PLAN & LEGENDS
- E001 LIGHTING DEMOLITION AND NEW WORK
- E002 POWER AND SYSTEMS DEMOLITION AND NEW WORK
- E100 EQUIPMENT LAYOUT
- E200 ELECTRICAL DETAILS
- E201 ELECTRICAL DETAILS
- E202 ELECTRICAL DETAILS

LINEWEIGHT - LEGEND

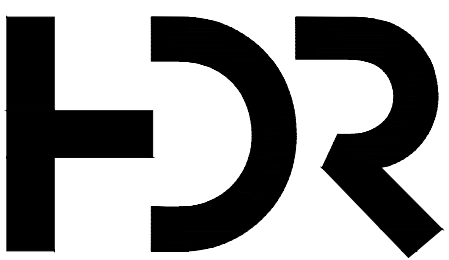
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW WORK
- CONDUIT INSTALLED BELOW FLOOR SLAB
- CONDUIT ABOVE CEILING

GENERAL NOTES

- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. MEASUREMENTS AND OBSTRUCTIONS AND NOTIFY OWNER OF ANY OBSERVED OBSTRUCTIONS NOT INDICATED IN THIS PROJECT MANUAL WHICH WOULD INHIBIT THE WORK TO BE PERFORMED AS INDICATED PRIOR TO TENDER CLOSE.
- FLOORS SHALL BE SCANNED BEFORE ANY CORING IS DONE. COORDINATE WITH GENERAL CONTRACTOR.
- EXACT ROUTING OF CONDUITS INDICATED SHALL BE COORDINATED WITH ALL OTHER TRADES.
- PROVIDE COMPLETE, FULLY TESTED AND OPERATIONAL ELECTRICAL SYSTEMS TO MEET THE REQUIREMENTS DESCRIBED HEREIN AND IN COMPLETE ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES. FOLLOW MANUFACTURERS' RECOMMENDED INSTALLATION DETAILS AND PROCEDURES FOR EQUIPMENT, SUPPLEMENTED BY REQUIREMENTS OF CONTRACT DOCUMENTS.
- PROVIDE ACCESS PANELS ON GYPSUM CEILINGS/WALLS AS REQUIRED FOR ACCESS. COORDINATE ALL CUTTING REQUIREMENTS WITH THE GENERAL CONTRACTOR.
- COORDINATE ALL CUTTING AND PATCHING REQUIREMENTS OF EXISTING BUILDING FINISHES AS REQUIRED TO ACCOMMODATE DEMOLITION AND NEW WORK. REPAIR ANY DAMAGE CAUSED BY DEMOLITION WORK. CUTTING AND PATCHING IS BY GENERAL CONTRACTOR.
- REFER TO ARCHITECTURAL AND GE HEALTHCARE'S DRAWINGS FOR ELEVATION DETAILS.
- CONTRACTOR TO ENSURE ALL CONDUITS BENDING RADII ARE IN COMPLIANCE WITH OESC RULE 12-294 AND TABLE 7.
- CONTRACTOR IS RESPONSIBLE TO ORDER PRODUCTS (EQUIPMENT AND MATERIALS) IN A TIMELY MANNER IN ORDER TO MEET PROJECT SCHEDULING TIMELINES. SUBMIT SHOP DRAWINGS TO CONSULTANT FOR REVIEW PRIOR TO ORDERING.
- PROVIDE 10 FOOT (3 METER) PIGTAILS AT ALL JUNCTION POINTS.
- CONTRACTOR TO ALLOW FOR THE PROVISION OF FIRE WATCH FOR THE DURATION THE EXISTING FIRE ALARM DEVICES IN THE AREA OF WORK ARE NOT OPERATIONAL. ALLOW FOR ALL ASSOCIATED COSTS.

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Sheet Name

KEY PLAN AND LEGENDS

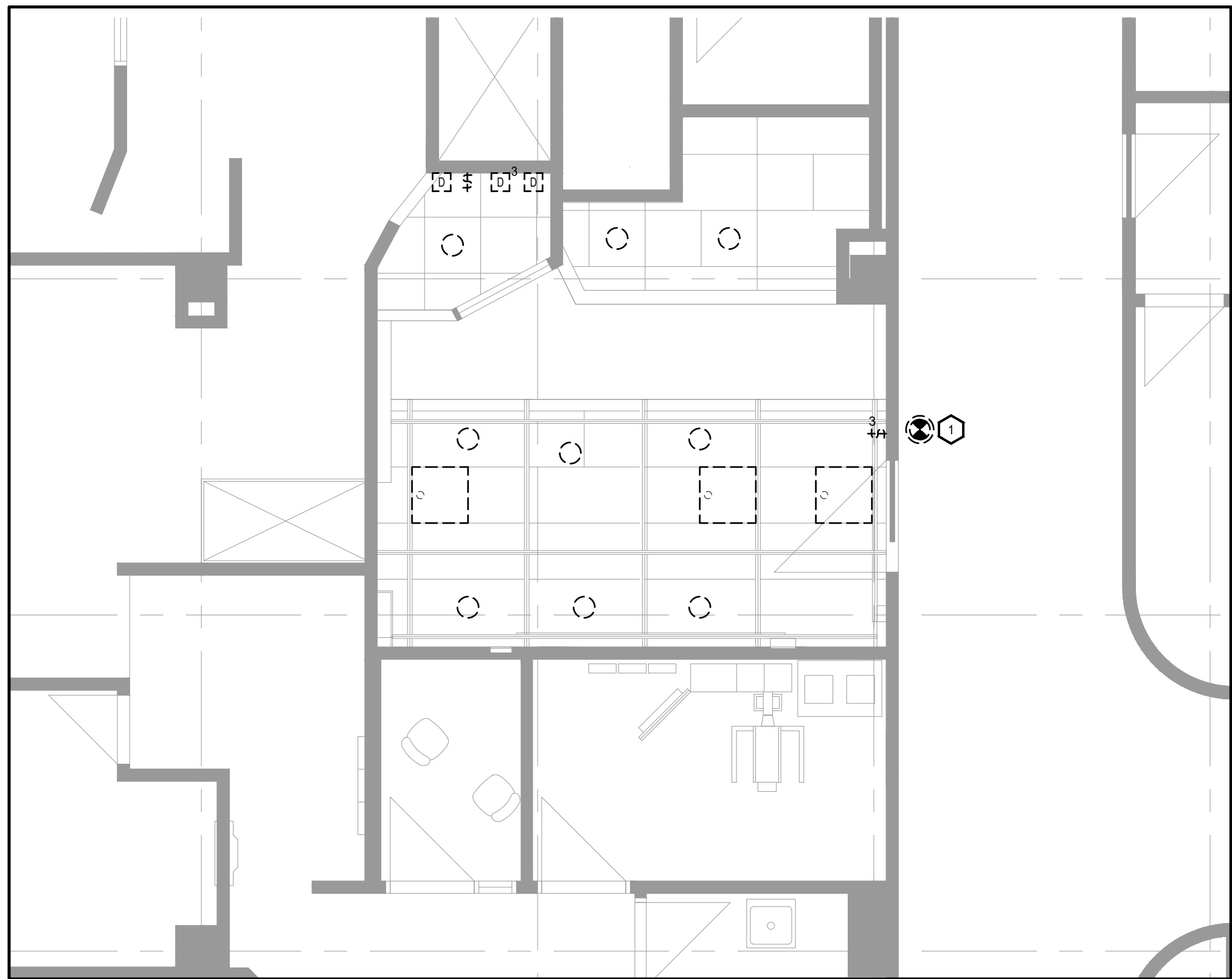
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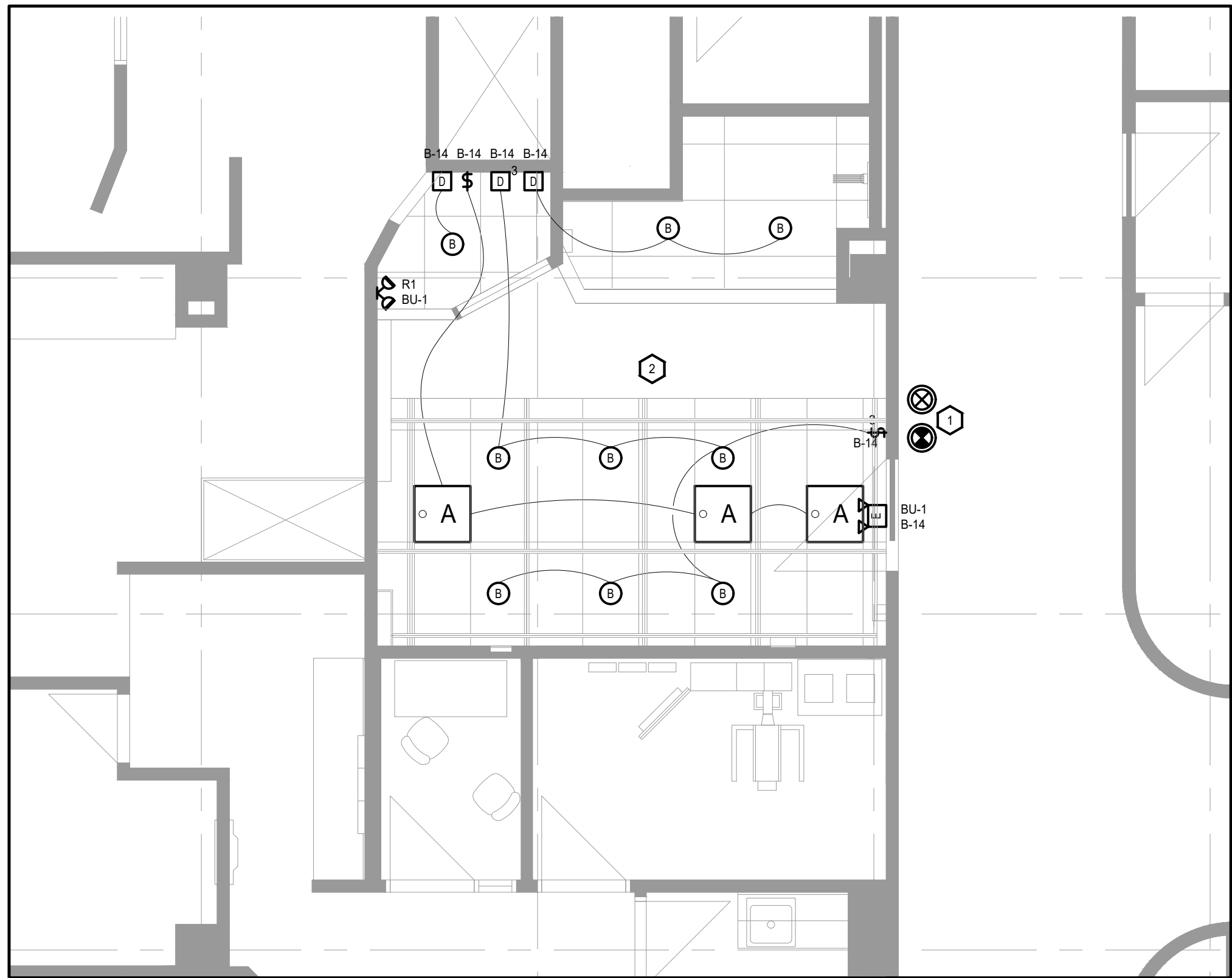
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E000

Project Status



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SCALE: 1:50



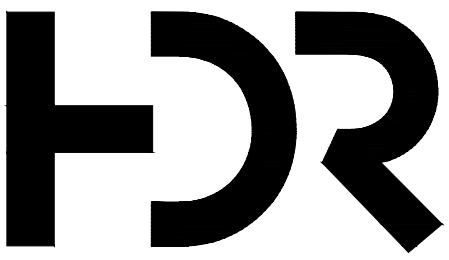
2 PARTIAL LEVEL 0 - LIGHTING NEW WORK
SCALE: 1:50

DRAWING NOTES

- REMOVE EXISTING X-RAY IN USE WARNING LIGHT AND REPLACE WITH NEW X-RAY IN USE WARNING LIGHT C/W WARNING LIGHT CONTROLLER AS INDICATED. REUSE EXISTING CIRCUIT. WARNING LIGHT CONTROLLER TO BE MOUNTED IN CEILING SPACE ABOVE. REFER TO DETAIL 2/E201. STANDARD OF ACCEPTANCE: WARNING LIGHT: GEXPRO "WXIA18WW-OF-XIU-120V-LED" WARNING LIGHT CONTROLLER: GEXPRO/BEVCO "RW120-10-BB"
- REUSE EXISTING CIRCUIT B-14 TO FEED ALL NEW LIGHT FIXTURES.

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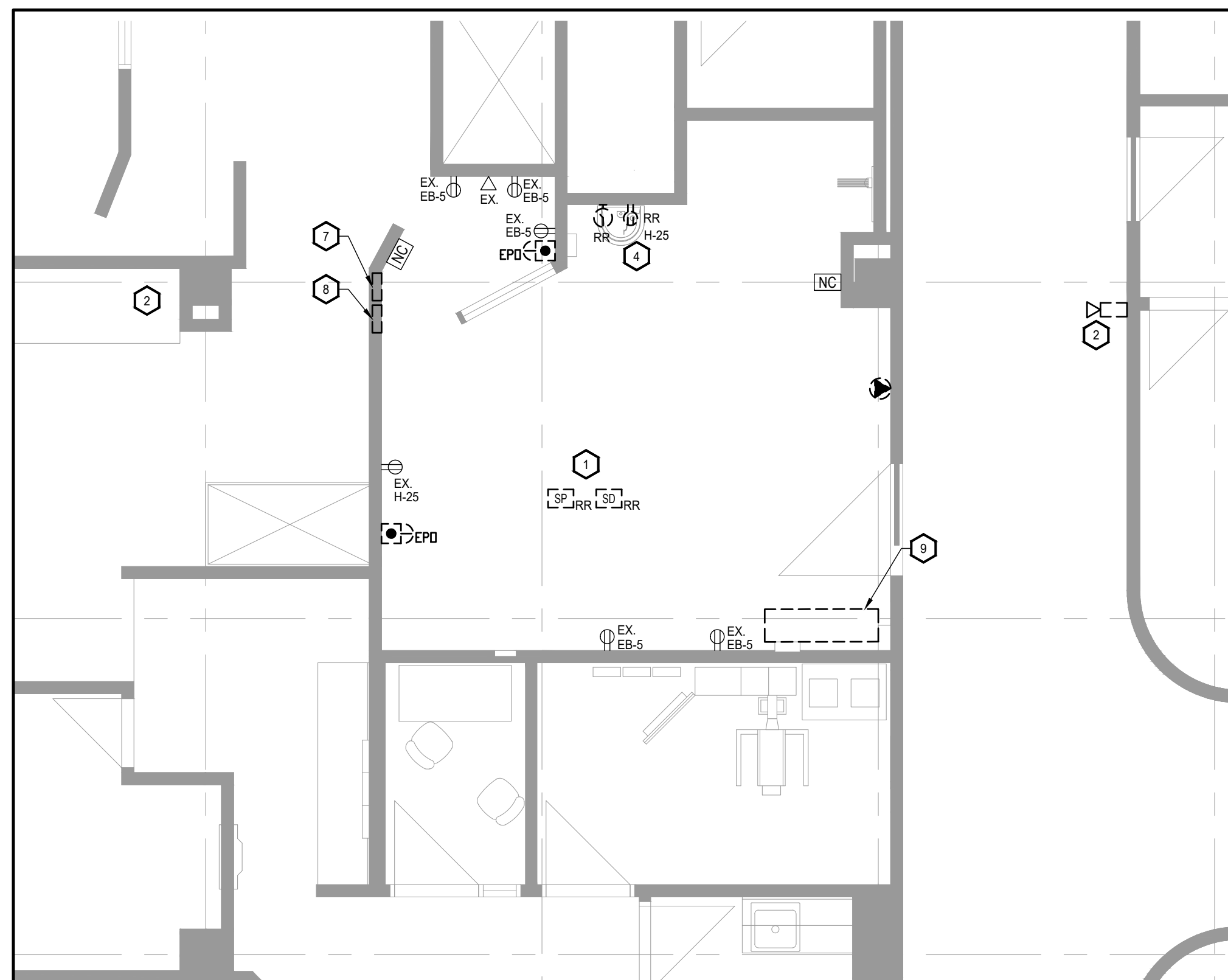
LIGHTING DEMOLITION AND NEW WORK

Scale AS NOTED

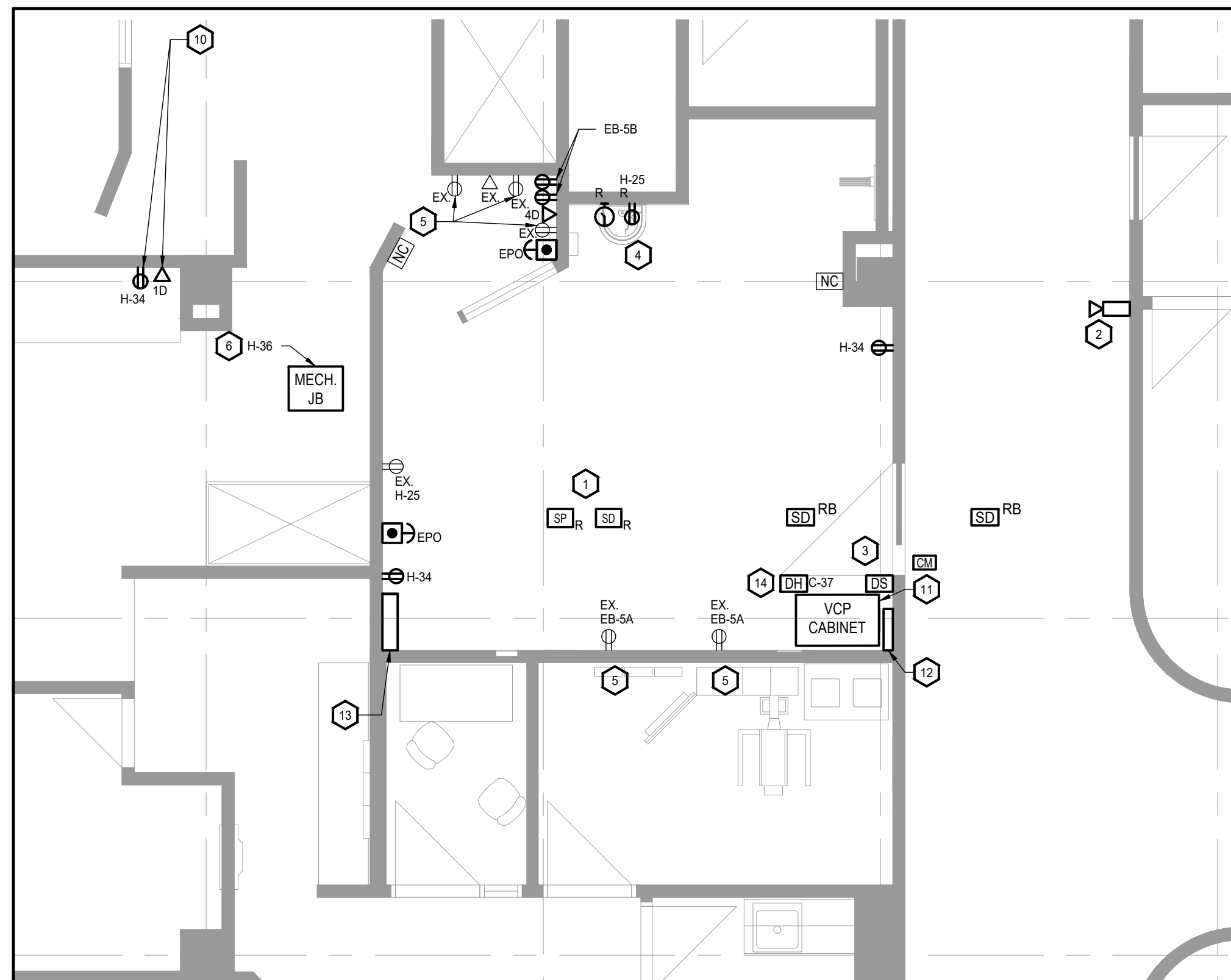
Sheet Number

E001

Project Status



1 PARTIAL LEVEL 0 - POWER AND SYSTEMS DEMOLITION
E002 SCALE: 1:50



2 PARTIAL LEVEL 0 - POWER AND SYSTEMS NEW WORK
E002 SCALE: 1:50

DRAWING NOTES

1. REMOVE AND REINSTALL EXISTING FIRE ALARM SMOKE DETECTOR AND FIRE ALARM SPEAKER AS INDICATED. CONTRACTOR TO ALLOW FOR THE PROVISION OF FIRE WATCH FOR THE DURATION THE EXISTING FIRE ALARM DEVICES ARE NOT OPERATIONAL. ALLOW FOR ALL ASSOCIATED COSTS.
2. REMOVE EXISTING CAMERA C/W CABLEING AND MONITORING SCREEN. CONTRACTOR TO INSTALL OWNER PROVIDED NEW 16" IF CAMERA C/W CAT 6 CABLE RUN BACK TO IT ROOM JMD-01563 AND END TERMINATIONS.
3. REMOVE DOOR INTERLOCK SWITCH TO INTERLOCK X-RAY EQUIPMENT OPERATION WITH THE OPERATING DOOR. STANDARD OF ACCEPTANCE: GEXPRO GLC GLOBAL LIMIT SWITCH REFER TO DETAIL 2'E201.
4. REMOVE AND REINSTALL EXISTING GLOCK AND RECEPTACLE TO FACILITATE WALL FLOORING. STANDARD OF ACCEPTANCE: AS REQUIRED TO FLUSH MOUNT DEVICES TO THE WALL SURFACE.
5. PROVIDE UPDATED CIRCUIT TAG "E6-5A". REFER TO PANEL LP-E8 SCHEDULE.
6. PROVIDE 120V CIRCUIT TO MECHANICAL JUNCTION BOX ABOVE CEILING AS INDICATED. JUNCTION BOX PROVIDED BY OTHERS. COORDINATE ON SITE FOR THE EXACT LOCATION PRIOR TO ROUGH-IN.
7. REMOVE EXISTING UPS DISCONNECT PANEL C/W WIRING/CONDUIT BACK TO SOURCE AND MAKE SAFE.
8. REMOVE EXISTING MAIN DISCONNECT PANEL C/W WIRING/CONDUIT BACK TO SOURCE AND MAKE SAFE.
9. REMOVE EXISTING UPS C/W WIRING/CONDUIT BACK TO SOURCE AND MAKE SAFE.
10. COORDINATE ON-SITE WITH OWNER FOR MOUNTING HEIGHT PRIOR TO ROUGH-IN. NEW MONITORING SCREEN C/W MOUNT PROVIDED BY OWNER. INSTALLED BY CONTRACTOR.
11. VCP CABINET SUPPLIED AND INSTALLED BY GE HEALTHCARE. CONTRACTOR TO PROVIDE PATHWAYS(S). REFER TO DRAWINGS E100 AND E200.
12. PROVIDE NEW FLOOR TO CEILING SURFACE MOUNTED WALL DUCT.
13. NEW MAIN DISCONNECT PANEL (MDP) SUPPLIED AND INSTALLED BY CONTRACTOR.
14. CONTRACTOR TO INCLUDE FOR HIRING AN INTEGRATED TESTING COORDINATOR TO PROVIDE INTEGRATED SYSTEMS TESTING AND VERIFICATION PER CANULC-5-1001 FOR INTEGRATION BETWEEN THE HOT HOT DEVICE AND FIRE ALARM SYSTEM. REFER TO ELECTRICAL SPECIFICATIONS SECTION 26 00 10 1.27.

GENERAL NOTES

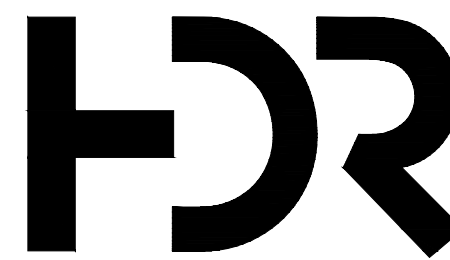
1. PER SPECIFICATION 26 05 26 SECTION, BOND ALL MECHANICAL, DUCTWORK, MEDICAL GAS LINES, AND WATER LINES WITHIN PATIENT CARE AREAS WITH #6 AWG R90 TO ELECTRICAL PANEL FEEDING OUTS WITHIN THE AREA OR AT THE NEAREST GROUND POINT IF AVAILABLE. LOCATE GROUND CLAMPS IN A SECTION TO EASILY ACCESSIBLE CEILING ABOVE. LABEL EACH AND EVERY CONNECTION FOR EASE OF TESTING. PROVIDE ALL REQUIRED GROUNDING CLAMPS AND FITTINGS.
2. PROVIDE #6 AWG R90 BONDING CONDUCTOR BETWEEN ELECTRICAL PANELS IN 34" (21MM) SERVING OUTLETS' WIRING DEVICES WITHIN THE SAME PATIENT CARE AREA / ENVIRONMENT.
3. PROVIDE 10 FOOT (3 METER) PIGTAILS AT ALL JUNCTION POINTS.
4. ELECTRICAL CONTRACTOR TO PROVIDE MEASURED PULL STRINGS IN ALL CONDUIT AND RACEWAY RUNS.
5. ALL OPENINGS IN RACEWAY AND ACCESS FLOORING ARE TO BE CUT OUT AND FINISHED WITH GROMMETS.
6. CEILING MOUNTED JUNCTION BOXES MUST BE INSTALLED FLUSH WITH FINISHED CEILING.
7. ELECTRICAL FEEDS BACK TO EXISTING PANELS TO BE RUN AFTER HOTEL DIEU HOSPITAL'S NORMAL WORKING HOURS. COORDINATE SCHEDULE WITH OWNER BEFOREHAND.
8. NETWORK CABLING (CAT 6) RUNS BACK TO NETWORK CLOSET IN IT ROOM. TO BE RUN AFTER HOTEL DIEU HOSPITAL'S NORMAL WORKING HOURS. COORDINATE SCHEDULE WITH OWNER BEFOREHAND.
9. ALL NEW ELECTRICAL OUTLET BOXES TO BE FLUSH MOUNTED IN INTERIOR CONSTRUCTION. SURFACE MOUNTED IN CONCEALED INTERIOR LOCATIONS, AND SURFACE MOUNTED IN EXPOSED INTERIOR LOCATIONS WHERE CONDUIT/CONDUIT IS EXIT. TO BE STAMPED AND GALVANIZED STEEL OUTLET BOXES UNLESS OTHERWISE NOTED.

EXISTING SYSTEMS DRAWINGS

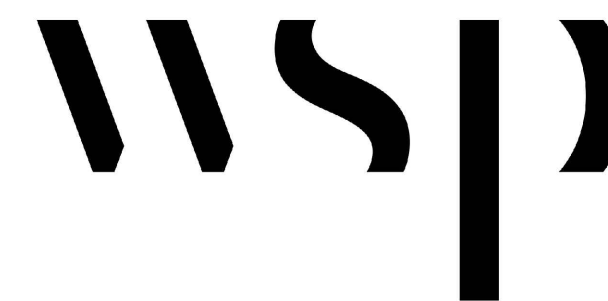
EXISTING ELECTRICAL SYSTEMS SHOWN ARE DIAGRAMMATIC AND ARE BASED ON ORIGINAL DRAWINGS. THE DRAWING MAY NOT REPRESENT "AS-BUILT" CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ON SITE, PRIOR TO TENDER CLOSE, THE EXTENT AND CONFIGURATION OF EXISTING ELECTRICAL SYSTEMS AND ALLOW FOR ADDITIONAL REMOVALS AS DETERMINED. NO EXTRAS WILL BE ALLOWED FOR FAILURE OF THE CONTRACTOR IN COMPLETING A THOROUGH REVIEW OF THE SITE PRIOR TO SUBMITTING A TENDER PRICE.

CONTRACT DRAWINGS

CONTRACT DRAWINGS FOR ELECTRICAL WORK ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT FOR EQUIPMENT, CONDUIT AND OUTLETS. CONTRACTOR TO COORDINATE LAYOUT OF ELECTRICAL SYSTEMS WITH ARCHITECTURAL, STRUCTURAL, AND MECHANICAL BUILDING COMPONENTS, AS WELL AS OTHER ELECTRICAL SYSTEMS. PROVIDE ADDITIONAL JUNCTION BOXES, FITTINGS, SUPPORTS, ETC. REQUIRED TO FACILITATE THE WORK. NO EXTRA PAYMENTS ARISING FROM FAILURE TO MAKE THIS COORDINATION WILL BE CONSIDERED.



HDR Architecture Associates, Inc.
27 Princess Street, Suite 400, Kingston, ON K7M 1A3



Kingston Health
Sciences Centre

Centre des sciences de
la santé de Kingston

HOTEL DIEU HOSPITAL UCC - GENERAL X-RAY ROOM EQUIPMENT REPLACEMENT

166 BROCK STREET, KINGSTON, ON

Project Manager	RH
Project Designer	
Project Architect	RM
Landscape Architect	
Civil Architect	
Structural Engineer	
Mechanical Engineer	WSP Canada Inc.
Electrical Engineer	WSP Canada Inc.
Interior Designer	
Equipment Planner	
Wayfinding	
Drawn By	AN

MARK	DATE	DESCRIPTION
1	2026-05-13	ISSUED FOR 50% REVIEW
2	2026-06-19	ISSUED FOR 100% REVIEW
3	2026-06-30	ISSUED FOR BID/PERMIT

[illegible]

Project Number	10460977
PLO Proj. No.	PLO 26-012
MOHLTC #	-



Sheet Name

POWER AND SYSTEMS DEMOLITION AND NEW WORK

Scale AS NOTED

Sheet Number

E002

Project Status



1	Main Disconnect	Emergency Off	1	1/2	13
		7 Systems Cabinet / VCP Cabinet	1	1	27
	Warning Light		1	1/2	13
	1 Phase Power	Warning Light Control	1	3/4	21
			1	1/2	13
7	Systems Cabinet	Door Switch	1	1/2	13
		5 Access Point	1	1	27
		6 Detector Bin	1	1	27
3	Operators Console	5 Access Point	1	2	53

3	Operators Console	5	Access Point	1	1	27
		6	Detector Bin	1	1	27
		5	Access Point	1	2	53

Project Status

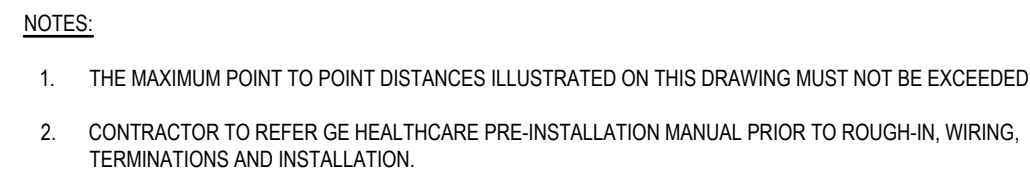
CONTRACT DRAWINGS
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1. REMOVE EXISTING FEEDER TO EXISTING MDP IN JM0-084 BACK TO SOURCE AND MAKE SAFE. PROVIDE NEW LAMACOID NAME PLATE TO LABEL BREAKER AS SPARE.



E200 SCALE: N.T.S.

SCALE: N.T.S.



E200 SCALE: N.T.S.

SCALE: N.T.S.

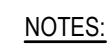
PROVIDE 3 #3/0 & 1 #3/0
ISOLATED GROUND
& 1 #6BD IN 63mmC

PROVIDE LUG REDUCERS
TO 2/0 PER PHASE LUGS
AND 1/0 FOR GROUND LUG.

FEEDER TO RUN UNDER JM0 FLOOR SLAB IN BASEMENT
CEILING SPACE, THEN UP INTO NEW MDP IN JM0-084.

E200 SCALE: N.T.S.

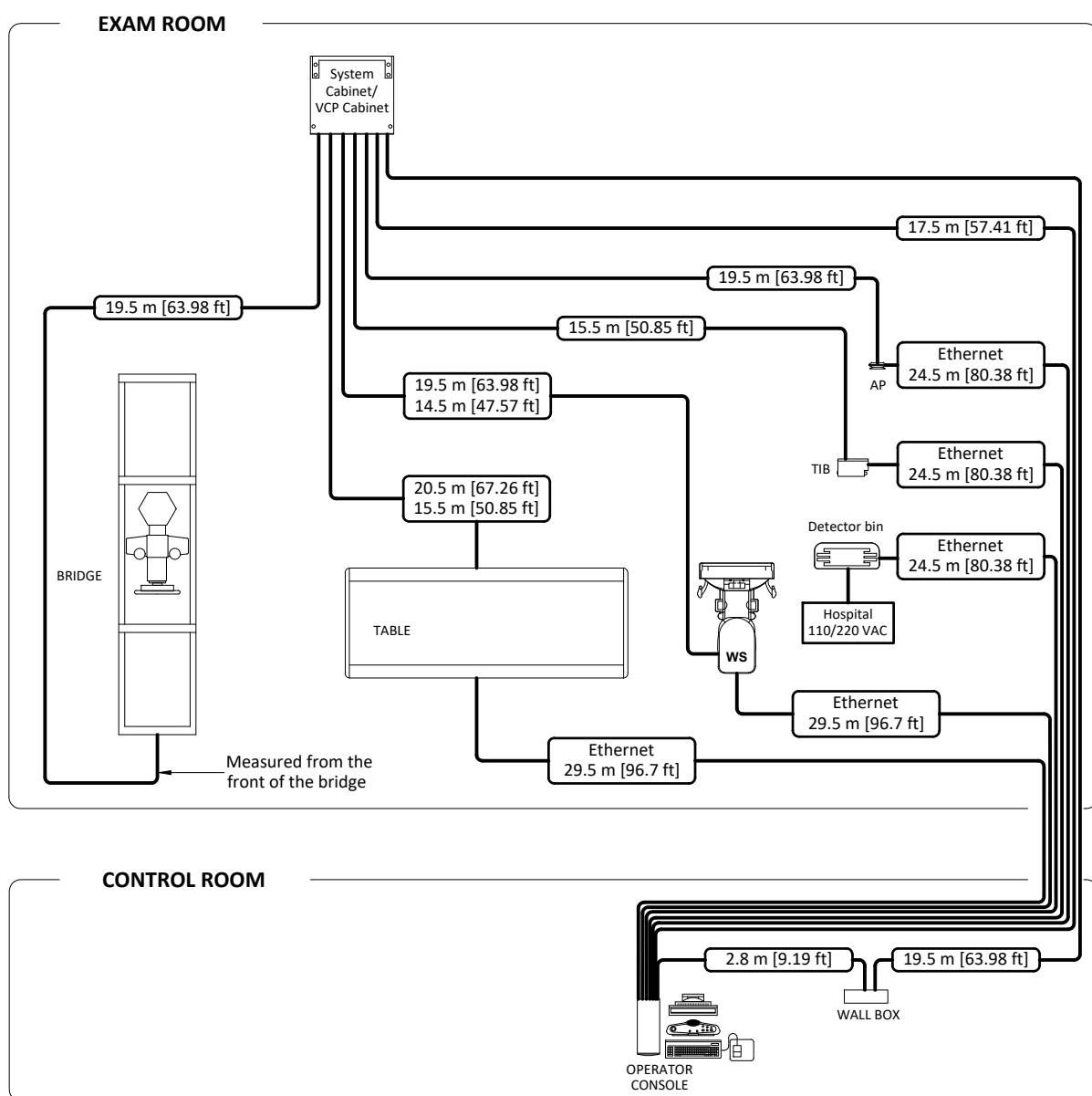
SCALE: N.T.S.



1. PROVIDE MULTI - CONDUCTOR SHIELDED 16AWG CABLE TO CONNECT EMERGENCY OFF PUSHBUTTONS TO MDP.
2. CONTRACTOR TO REFER GE HEALTHCARE PRE-INSTALLATION MANUAL PRIOR TO ROUGH-IN, WIRING, TERMINATIONS AND INSTALLATION.
3. REFER TO FEEDER TABLE FOR WIRING SIZE FROM MAIN DISCONNECT PANEL TO SYSTEM CABINET (SKL).

—	CABLE/WIRING SUPPLIED BY CONTRACTOR
—	EQUIPMENT SUPPLIED BY GE HEALTHCARE
—	EQUIPMENT SUPPLIED BY CONTRACTOR
SKL	SYSTEM CABINET
EPO	EMERGENCY OFF PUSH BUTTON

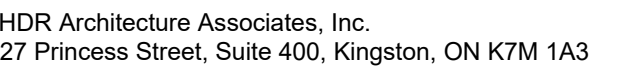
FEEDER TABLE									
	MIN. FEEDER WIRE SIZE, AWG OR MCM (SQ MM)/VAC								
MINIMUM FEEDER WIRE LENGTH FEET (METER)	50 (15)	100 (30)	150 (46)	200 (61)	250 (76)	300 (91)	350 (107)	400 (122)	450 (138)
380 VAC	2 (3S)	2 (3S)	1/0 (5S)	2/0 (70)	3/0 (85)	4/0 (100)	300M (150)	350M (175)	400M (200)



E200 SCALE: N.T.S.

SCALE: N.T.S.

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Centre des sciences de
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Equipment Planner	
Wayfinding	
Drawn By	AN

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Sheet Name

ELECTRICAL DETAILS

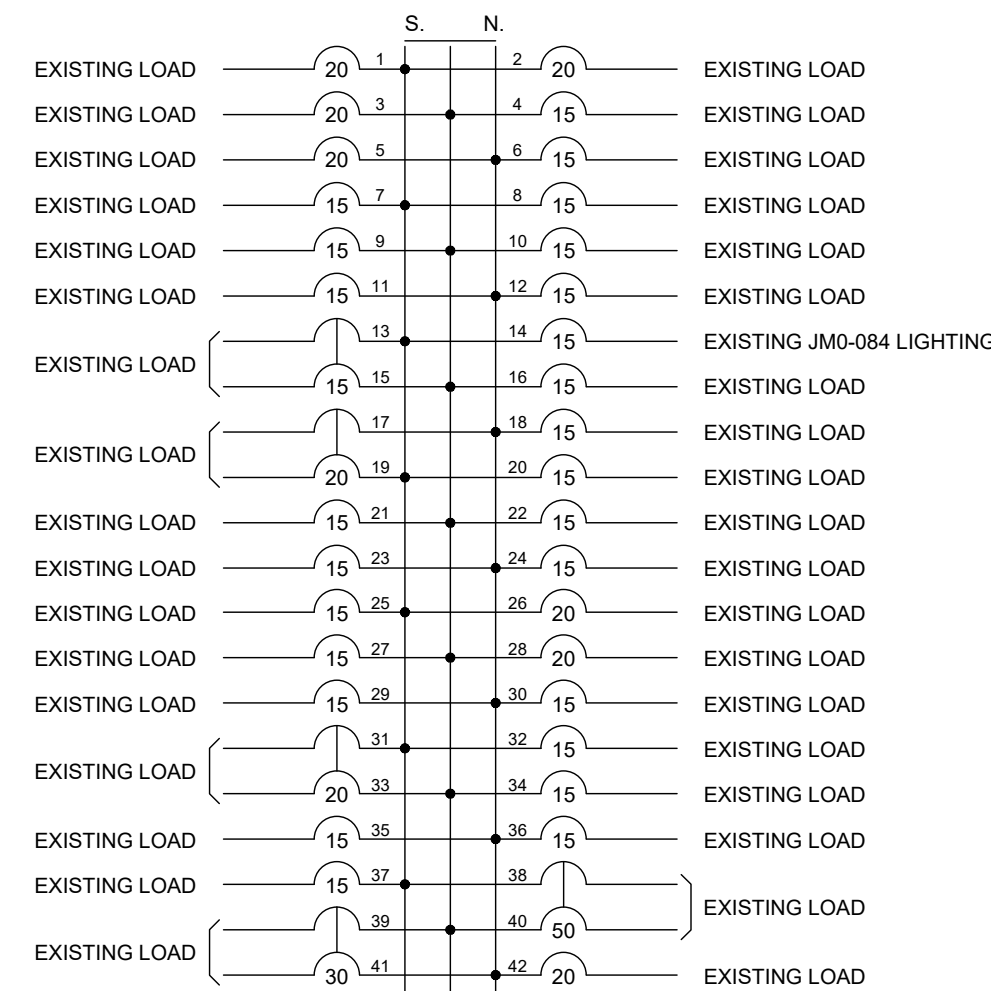
Scale AS NOTED

Sheet Number

E200

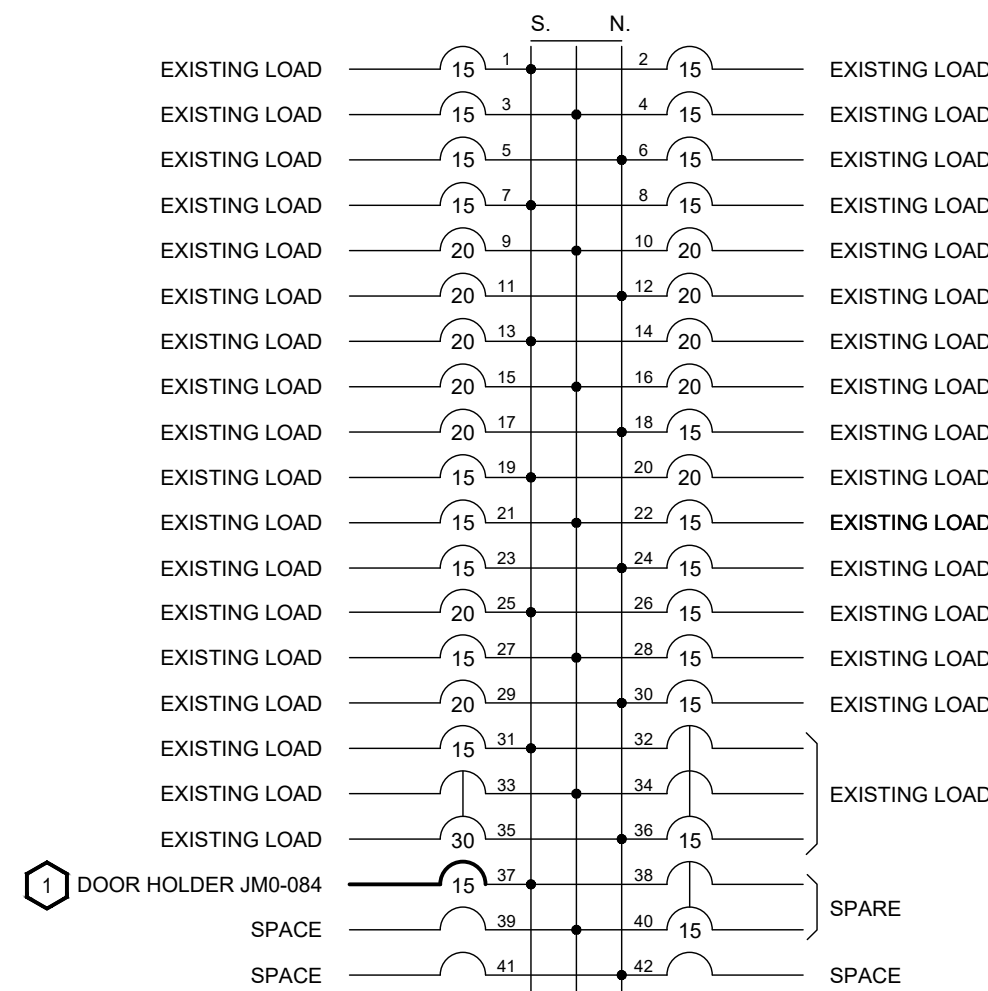
Project Status

120/208 VOLT, 3PH, 4W
225 AMP MAINS, 10KA



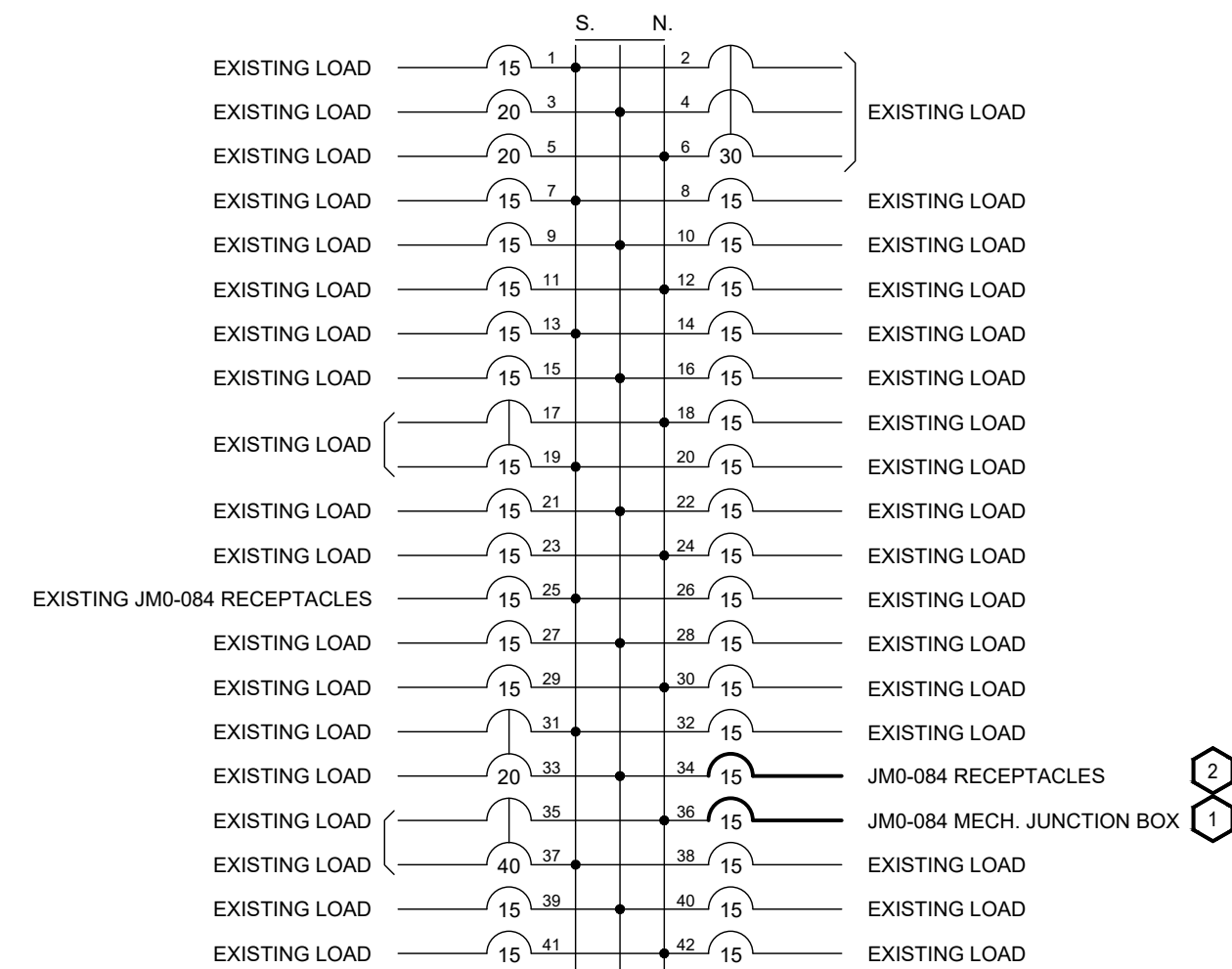
1 PANEL LP-B SCHEDULE
E202 SCALE: N.T.S.

120/208 VOLT, 3PH, 4W
225 AMP MAINS, 10KA



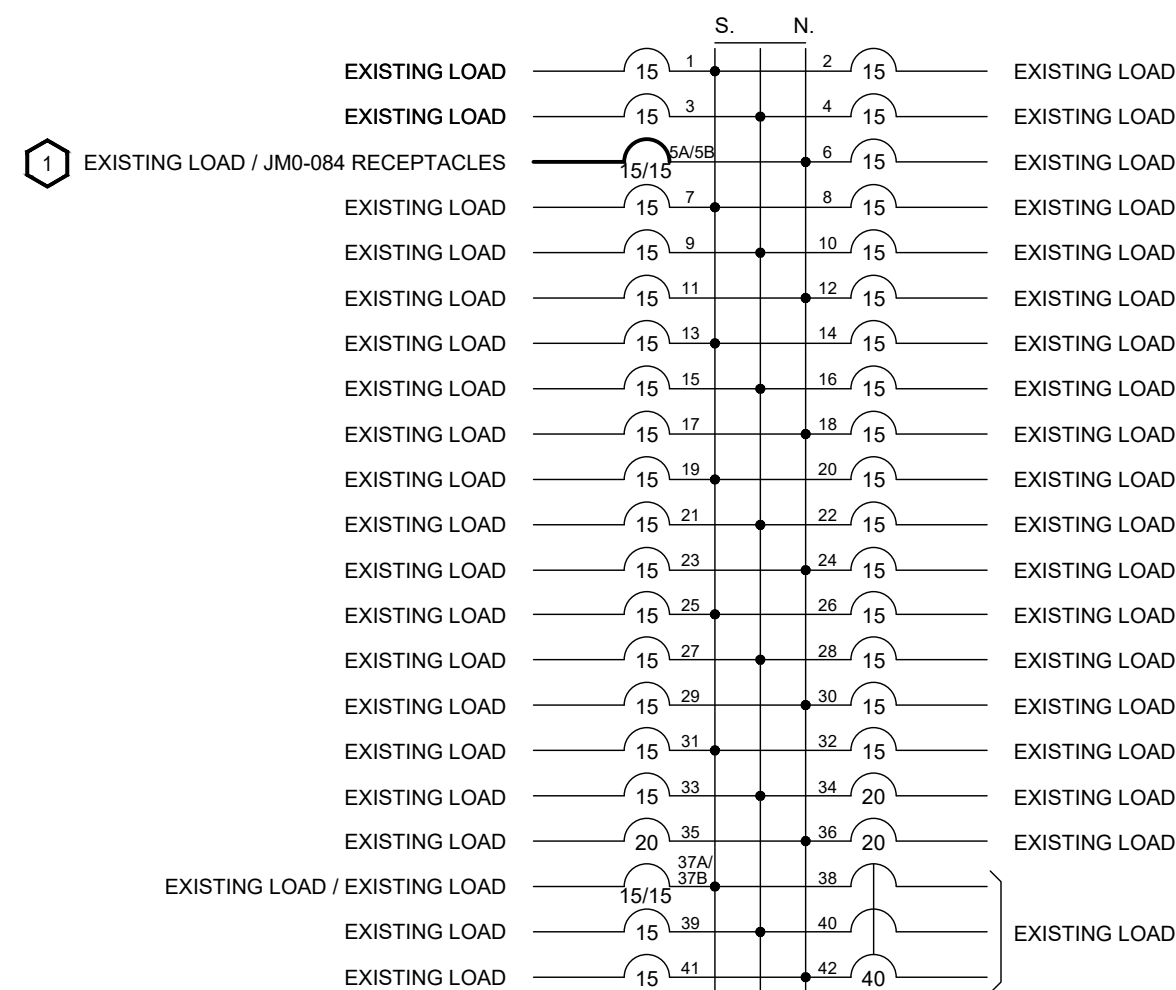
2 PANEL LP-C SCHEDULE
E202 SCALE: N.T.S.

120/208 VOLT, 3PH, 4W
225 AMP MAINS, 10KA



3 PANEL LP-H SCHEDULE
E202 SCALE: N.T.S.

120/208 VOLT, 3PH, 4W
225 AMP MAINS, 10KA



4 EMERGENCY PANEL LP-EB SCHEDULE
E202 SCALE: N.T.S.

HDR

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WSP)

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[illegible]

Project Number	10460977
PLO Proj. No.	PLO 26-012
MOHLTC #	-



Sheet Name

ELECTRICAL DETAILS

Scale AS NOTED

Sheet Number

E202

Project Status

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DISCLAIMER

GENERAL SPECIFICATIONS

- GEHC is not responsible for the installation of developers and associated equipment, lighting, cassette trays and protective screens or derivatives not mentioned in the order.
- The final study contains recommendations for the location of GEHC equipment and associated devices, electrical wiring and room arrangements. When preparing the study, every effort has been made to consider every aspect of the actual equipment expected to be installed.
- The layout of the equipment offered by GEHC, the dimensions given for the premises, the details provided for the pre-installation work and electrical power supply are given according to the information noted during on-site study and the wishes expressed by the customer.
- The room dimensions used to create the equipment layout may originate from a previous layout and may not be accurate as they may not have been verified on site. GEHC cannot take any responsibility for errors due to lack of information.
- Dimensions apply to finished surfaces of the room.
- Actual configuration may differ from options presented in some typical views or tables.
- If this set of final drawings has been approved by the customer, any subsequent modification of the site must be subject to further investigation by GEHC about the feasibility of installing the equipment. Any reservations must be noted.
- The equipment layout indicates the placement and interconnection of the indicated equipment components. There may be local requirements that could impact the placement of these components. It remains the customer's responsibility to ensure that the site and final equipment placement complies with all applicable local requirements.
- All work required to install GEHC equipment must be carried out in compliance with the building regulations and the safety standards of legal force in the country concerned.
- These drawings are not to be used for actual construction purposes. The company cannot take responsibility for any damage resulting therefrom.

CUSTOMER RESPONSIBILITIES

- It is the responsibility of the customer to prepare the site in accordance with the specifications stated in the final study. A detailed site readiness checklist is provided by GEHC. It is the responsibility of the customer to ensure all requirements are fulfilled and that the site conforms to all specifications defined in the checklist and final study. The GEHC Project Manager of Installation (PMI) will work in cooperation with the customer to follow up and ensure that actions in the checklist are complete, and if necessary, will aid in the rescheduling of the delivery and installation date.
- Prior to installation, a structural engineer of record must ensure that the floor and ceiling is designed in such a way that the loads of the installed system can be securely borne and transferred. The layout of additional structural elements, dimensioning and the selection of appropriate installation methods are the sole responsibility of the structural engineer. Execution of load bearing structures supporting equipment on the ceiling, floor or walls are the customer's responsibility.

RADIO-PROTECTION

- Suitable radiological protection must be determined by a qualified radiological physicist in conformation with local regulations. GEHC does not take responsibility for the specification or provision of radio-protection.

THE UNDERSIGNED, HEREBY CERTIFIES THAT I HAVE READ AND APPROVED THE PLANS IN THIS DOCUMENT.		
DATE	NAME	SIGNATURE

CUSTOMER SITE READINESS REQUIREMENTS

REQUIRED MANUALS FOR SYSTEM PRE-INSTALLATION	
Description	Document Number*
Product specific Pre-installation Manual	Refer to cover page
*documents can be accessed in multiple languages at https://www.gehealthcare.com/support/manuals	

- A mandatory component of this drawing set is the GE HealthCare Pre-installation manual. Failure to reference the Pre-installation manual will result in incomplete documentation required for site design and preparation.
- The items on the GE HealthCare Site Readiness Checklists listed below are REQUIRED to facilitate equipment delivery to the site. Equipment will not be delivered if these requirements are not satisfied.

REQUIRED SITE-READINESS CHECKLISTS FOR SYSTEM PRE-INSTALLATION	
Modality	Document Number*
Computerized Tomography	DOC2949059
Radiology, Radiology and Fluouroscopy, Mammography, Bone Mass Densitometry	DOC2949063
All modality Customer/Contractor Worksheet	DOC2949068
*documents can be accessed in multiple languages at https://www.gehealthcare.com/support/manuals	

- Any deviation from these drawings must be communicated in writing to and reviewed by your local GE HealthCare installation project manager prior to making changes.
- Make arrangements for any rigging, special handling, or facility modifications that must be made to deliver the equipment to the installation site. If desired, your local GE HealthCare installation project manager can supply a reference list of rigging contractors.
- New construction requires the following;
 1. Secure area for equipment,
 2. Power for drills and other test equipment,
 3. Restrooms.
- Provide for refuse removal and disposal (e.g. crates, cartons, packing)
- For CT systems it is required to minimize vibrations within the scan room. It is the customer's responsibility to contract a vibration consultant/engineer to implement site design modifications to meet the GE vibration specification. Refer to the system Pre-installation manual for vibration specifications.

ENVIRONMENTAL SPECIFICATIONS

MAGNETIC INTERFERENCE

In order to avoid interference on the system, static field limits from the surrounding environment must be less than <1 Gauss around the unit.

LIGHT REQUIREMENTS

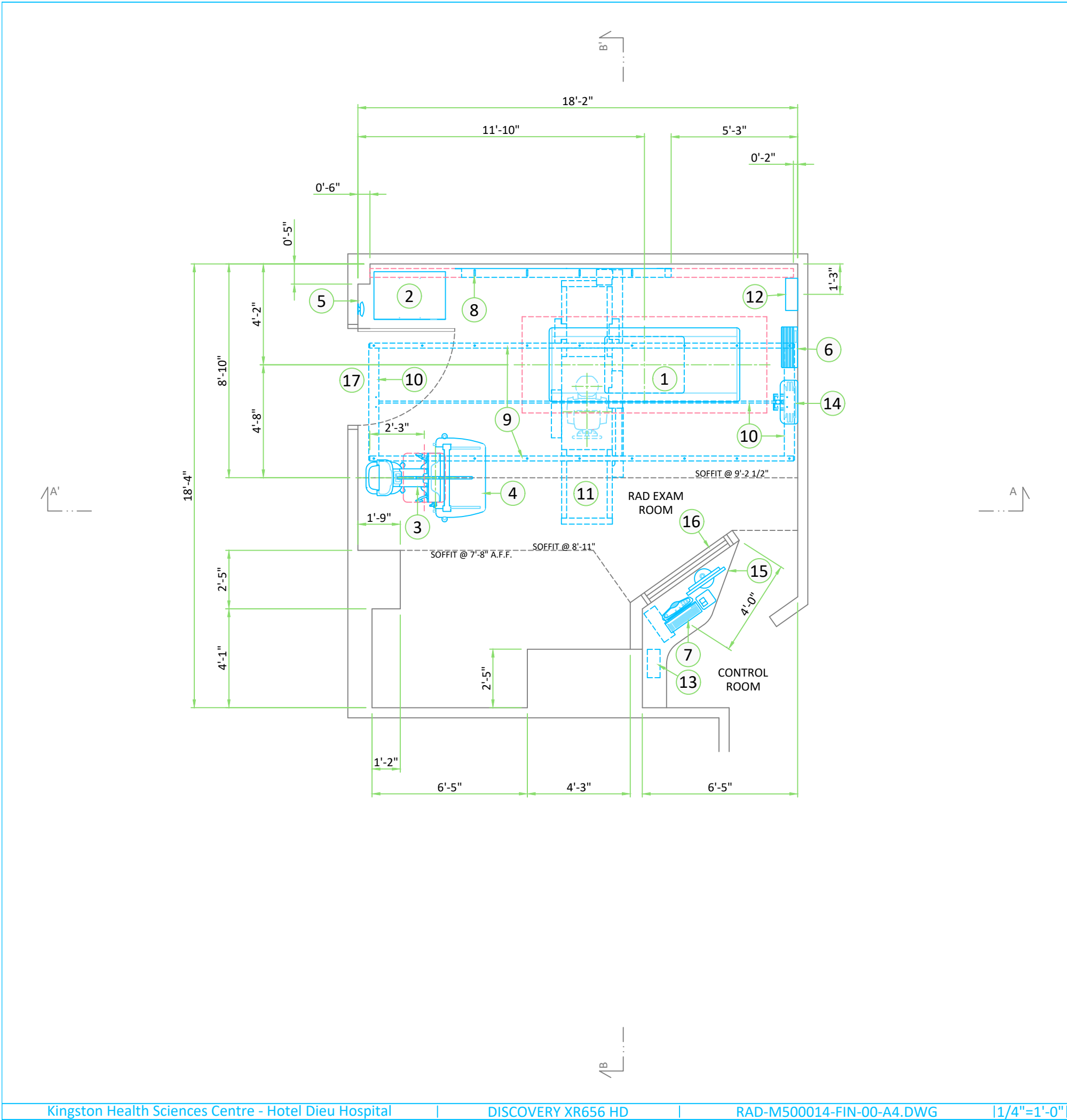
For the electronic ballast of fluorescent lamp in exam room, the operating frequency should be above 42 kHz.

ACOUSTIC OUTPUT

Measured 1 m [3.28 ft] from any point in system.

In-use: less than 55 dBA

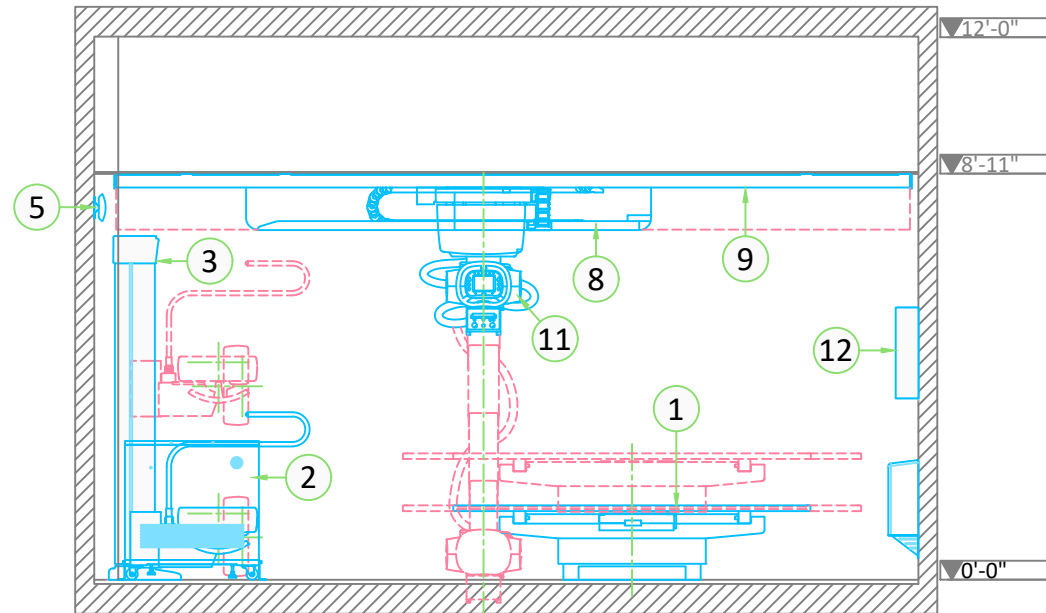
Stand-by: less than 55 dBA



LEGEND						
A	GE SUPPLIED			D	AVAILABLE FROM GE	
B	GE SUPPLIED/CONTRACTOR INSTALLED			E	EQUIPMENT EXISTING IN ROOM	
C	CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED			*	ITEM TO BE REINSTALLED FROM ANOTHER SITE	
BY	ITEM	DESCRIPTION	MAX HEAT OUTPUT (BTU/h)	WEIGHT (lbs)	MAX HEAT OUTPUT (W)	WEIGHT (kg)
A	1	BAMBOO TABLE	-	692	-	314
A	2	VCP CABINET	-	437	-	198
A	3	GLOBAL G3 STANDARD WALL STAND	-	626	-	284
A	4	IMAGE PASTE BARRIER	-	120	-	54.4
A	5	ACCESS POINT	-	1	-	0.6
A	6	GRID HOLDER	-	30	-	13.8
A	7	OPERATOR CONSOLE	-	23	-	10.6
A	8	CABLE CHAIN SUPPORT	-	-	-	-
A	9	17'-6" LONGITUDINAL STATIONARY RAILS	-	-	-	-
A	10	DRIVE BELT AND ANCHOR RAILS	-	-	-	-
A	11	OTS WITH 3 m BRIDGE WITH CABLE CHAIN	-	1068	-	484.5
C	12	MAIN DISCONNECT PANEL (MDP)	-	79	-	36
A	13	PARTIAL UPS	-	25	-	11.5
A	14	DETECTOR BIN (WALL MOUNTED)	-	33	-	15
C	15	COUNTER TOP FOR EQUIPMENT- PROVIDE GROMMETED OPENINGS AS REQUIRED TO ROUTE CABLES				
C	16	CONTROL WALL TO CEILING WITH LEAD GLASS VIEWING WINDOW				
C	17	MINIMUM OPENING FOR EQUIPMENT DELIVERY IS 950 mm x 1900 mm [37.5 in x 75 in], CONTINGENT ON A 2500 mm [96 in] CORRIDOR WIDTH (NOTE: IMAGE PASTE OPTION REQUIRES AN 1100 mm x 2100 mm [44 in x 82 in] OPENING)				
*REFER TO HEAT DISSIPATION DETAIL ON PAGE M1 FOR SYSTEM HEAT LOAD INFORMATION						
Applications						
The chart shows the applications possible to perform with the present equipment positioning, however the sales contract may not include all of them.						
Auto Image Pasting at Wall Stand						YES
Auto Image Pasting at Table						YES
VolumeRAD	Horizontal at Extended Arm Wall stand					NO
	Vertical at Wall stand					YES
	Cross-Table at Wall stand					NO
	Horizontal at Table					YES
The following shots are NOT available in this layout						
Rear to front cross table shot to table centerline						
EXAM ROOM HEIGHT						
FINISHED FLOOR TO SLAB HEIGHT						12'-0"
FALSE CEILING HEIGHT						9' - 2 1/2"
EFFECTIVE CEILING HEIGHT						8'-11"
For Accessory Sales: (866) 281-7545 Options 1, 2, 1, 2 or mail to: gehcaccessorysales@ge.com						

RevA4Date 26/Jun/2026 | A2 - Equipment Layout | 04/16

SIDE VIEW A-A'

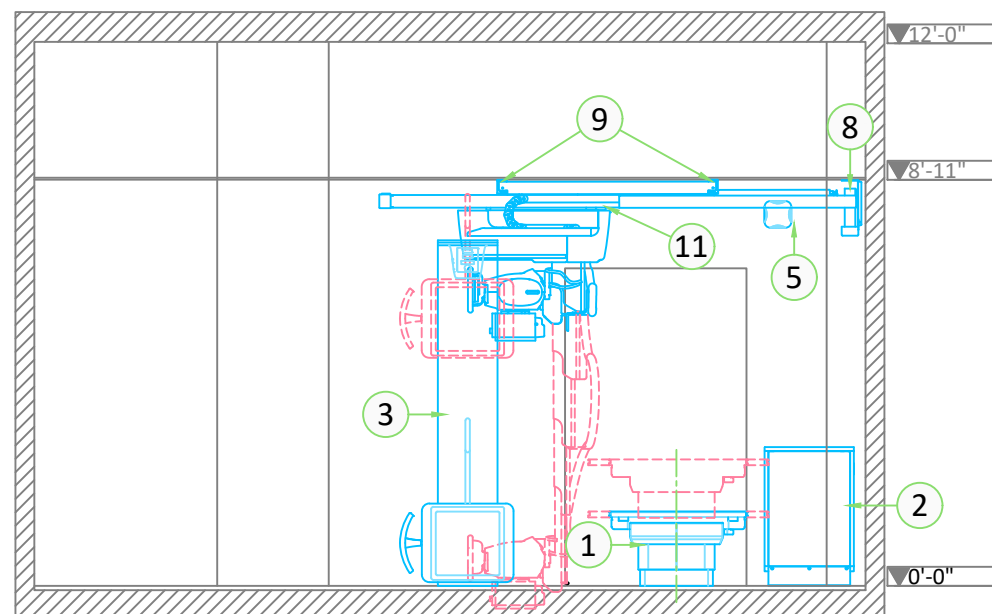


EXAM ROOM CEILING HEIGHTS

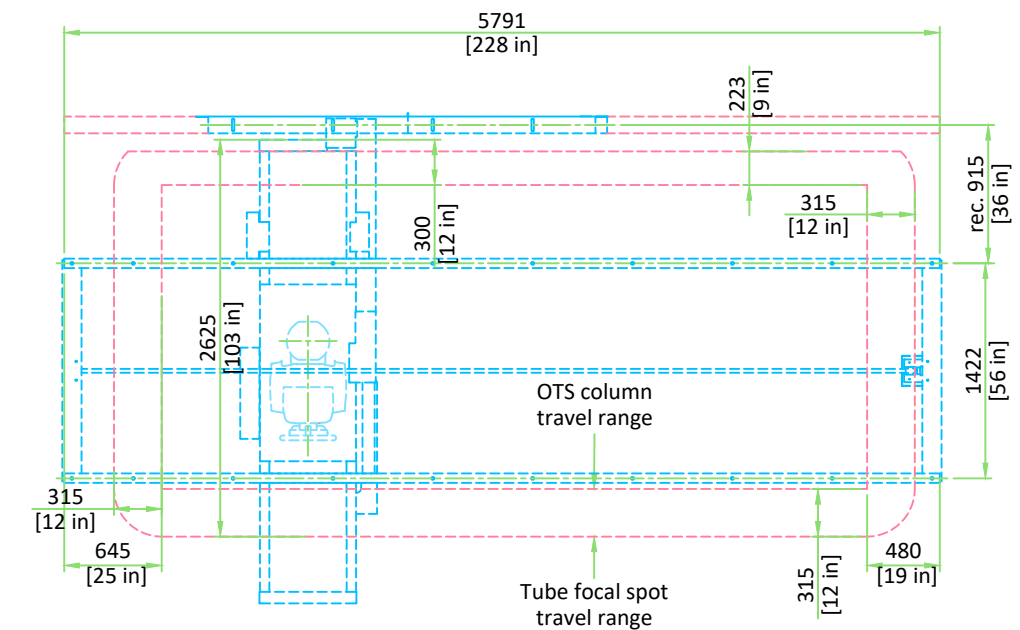
RECOMMENDED AND MINIMUM ROOM HEIGHTS				
CONFIGURATION		SPECIFICATION	CEILING HEIGHT	CEILING HEIGHT
All	2m, 3m or 4m Bridge	Recommended	2895 mm	114 in
	3m Bridge with WS at front side	Minimum	2883 mm	113.5 in
	4m Bridge with WS at front side	Minimum	2890 mm	113.75 in
	2m or 3m Bridge with WS at head side	Minimum	2616 mm	103 in
	4m Bridge with WS at head side	Minimum	2622.5 mm	103.25 in
Drape	2m or 3m Bridge with WS at foot side	Minimum	2692.4 mm	106 in
	4m Bridge with WS at foot side	Minimum	2697 mm	106.25 in
	3m Bridge with WS at rear side	Minimum	2616 mm	103 in
	4m Bridge with WS at rear side	Minimum	2622.5 mm	103.25 in
Chain	2m or 3m Bridge with WS at foot side	Minimum	2718 mm	107 in
	3m Bridge with WS at rear side	Minimum	2718 mm	107 in
	4m Bridge with WS at foot/rear side	Minimum	2724 mm	107.25 in

Note : measured from the floor to the top of the longitudinal rails

FRONT VIEW B-B'



FOCAL SPOT TRAVEL WITH 3M BRIDGE

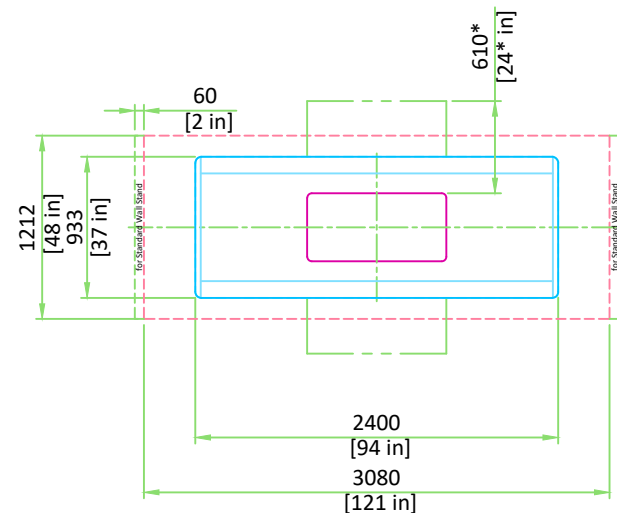


SCALE 1:50

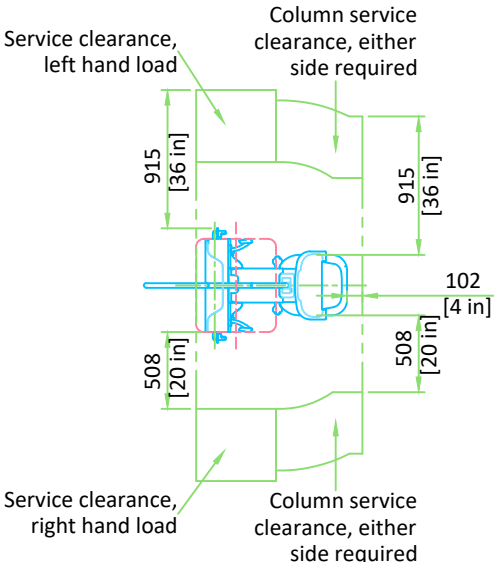
Note: Focal Spot Travel depends on the length of the bridge and rails.

CLEARANCE AREAS

TABLE WITH STANDARD WALLSTAND



*Recommended service access clearance is 915 mm [36 in].



SCALE 1:50

DELIVERY

THE CUSTOMER/CONTRACTOR SHOULD:

- Provide an area adjacent to the installation site for delivery and unloading of the GEHC equipment.
- Ensure that the dimensions of all doors, corridors, ceiling heights are sufficient to accommodate the movement of GEHC equipment from the delivery area into the definitive installation room.
- Ensure that access routes for equipment will accommodate the weights of the equipment and any transportation, lifting and rigging equipment.
- Ensure that all necessary arrangements for stopping and unloading on public or private property not belonging to the customer have been made.

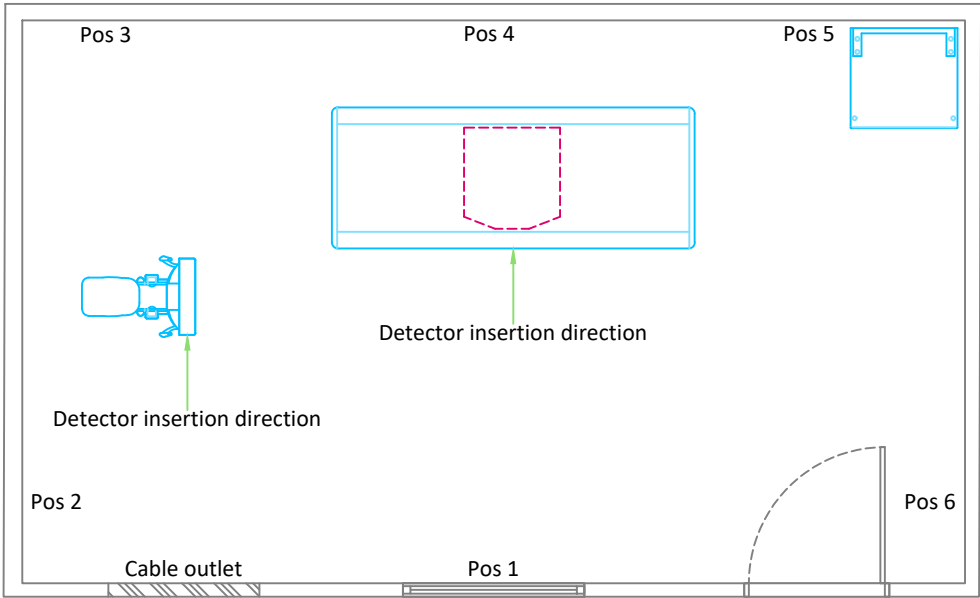
DIMENSIONS OF DELIVERY WITH DOLLY TRANSPORT EQUIPMENT

EQUIPMENT	DIMENSIONS LxWxH mm (in)	WEIGHT kg (lb)
STANDARD WALLSTAND	2111x911x1860 (83.1x35.9x73.2)	284 kg (626 lbs) + dolly
EXTENDED WALLSTAND	2340x911x1860 (92.1x35.9x73.2)	292 kg (644 lbs) + dolly
BAMBOO TABLE (without table top)	1800x930x750 (70.9x36.6x29.5)	350 kg (772 lbs) + dolly
GLOBAL G3 TABLE	2350x940x800 (93x37x31.5)	380 kg (838 lbs) + dolly
STATIONARY RAILS (5.79 m (19 ft)) (set of 2 rails)	5920x62.5x84.3 (233.1x2.5x3.3)	63 kg (138 lbs)
OTS	1190x1040x1640 (46.8x41x64.5)	419 kg (924 lbs)
BAMBOO OTS	1200x1100x1900 (47.2x43.3x74.8)	356 kg (785 lbs)
2M or 3M BRIDGE	3254x794x500 (128.1x31x19.7)	172 kg (380 lbs)
4M BRIDGE	4554x794x500 (4547x31x19.7)	246 kg (542 lbs)
Refer to Equipment Layout for site-specific equipment configuration.		

ACCESS POINT POSITION

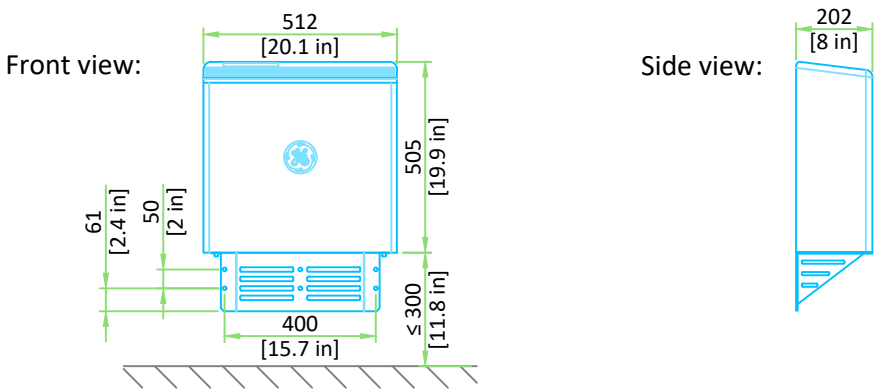
AP Wall-mounting position:

- There are 6 different positions available for AP wall-mounting.
- Install at more than 2.5 m [8.2 ft] height from floor level to avoid potential blocking from human or other obstacles.
- One Ethernet cable to Magic PC and one power cable to system cabinet are connected on the back of the AP.
- Use wall mount adapter included with AP.
- AP is only provided for wireless system, it is not included in Non Wireless Configuration system.

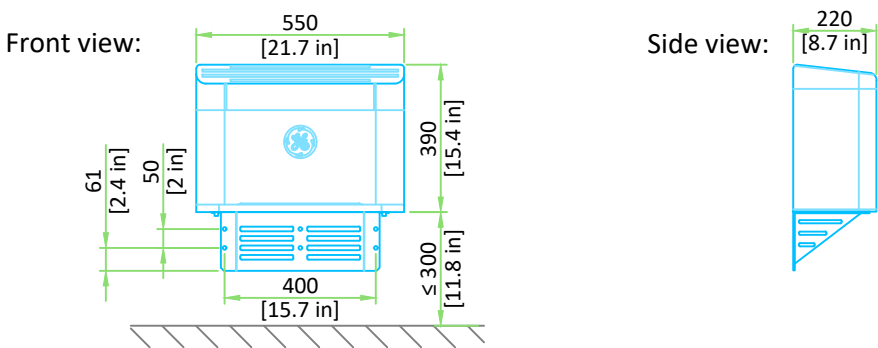


GRID HOLDER AND DETECTOR CHARGING BIN

GRID HOLDER



DETECTOR CHARGING BIN



SCALE 1:20

STRUCTURAL NOTES

- 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 concrete or masonry anchors in direct tension.
- All units that are wall mounted or wall supported are to be provided with supports where necessary. Wall supports are to be supplied and installed by the customer or his contractors. See plan for suggested locations.
- Control walls shall be constructed to minimum 2130mm (7'-0") high.
- Dimensions are to finished surfaces of room.
- Customers contractor must provide all penetrations in post tension floors.
- Customers contractor must provide and install any non-standard anchoring. Documents for standard anchoring methods are included with GE equipment drawings for geographic areas that require such documentation.
- Customers contractor must provide and install hardware for "through the floor" anchoring and/or any bracing under access floors. This contractor must also provide floor drilling that cannot be completed because of an obstruction encountered while drilling by the GE installer such as rebar etc.
- It is the customer's responsibility to perform any floor or wall penetrations that may be required. The customer is also responsible for ensuring that no subsurface utilities (e.g., electrical or any other form of wiring, conduits, piping, duct work or structural supports (i.e. post tension cables or rebar)) will interfere or come in contact with subsurface penetration operations (e.g. drilling and installation of anchors/screws) performed during the installation process. To ensure worker safety, GE installers will perform surface penetration operations only after the customer's validation and completion of the "GE surface penetration permit".
- Different anchor types are used to install the components of the system. Refer to Structural Requirements Section(s) of the Pre-Installation Manual for each anchor requirement.
- Refer to the Structural Requirements Section for the required minimum embedment.
- The ground surface must be flat and leveled, maximum tolerance for leveling is ±1.5 mm per 1 m (0.2 in per 10 feet). A grout pad provided by the contractor is required to meet this specification. The maximum pad thickness is 6.3 mm (0.25 in).

CEILING REQUIREMENTS

To allow installation of the stationary rail cross-members, clearance is required between the ends of the stationary rails and the walls.

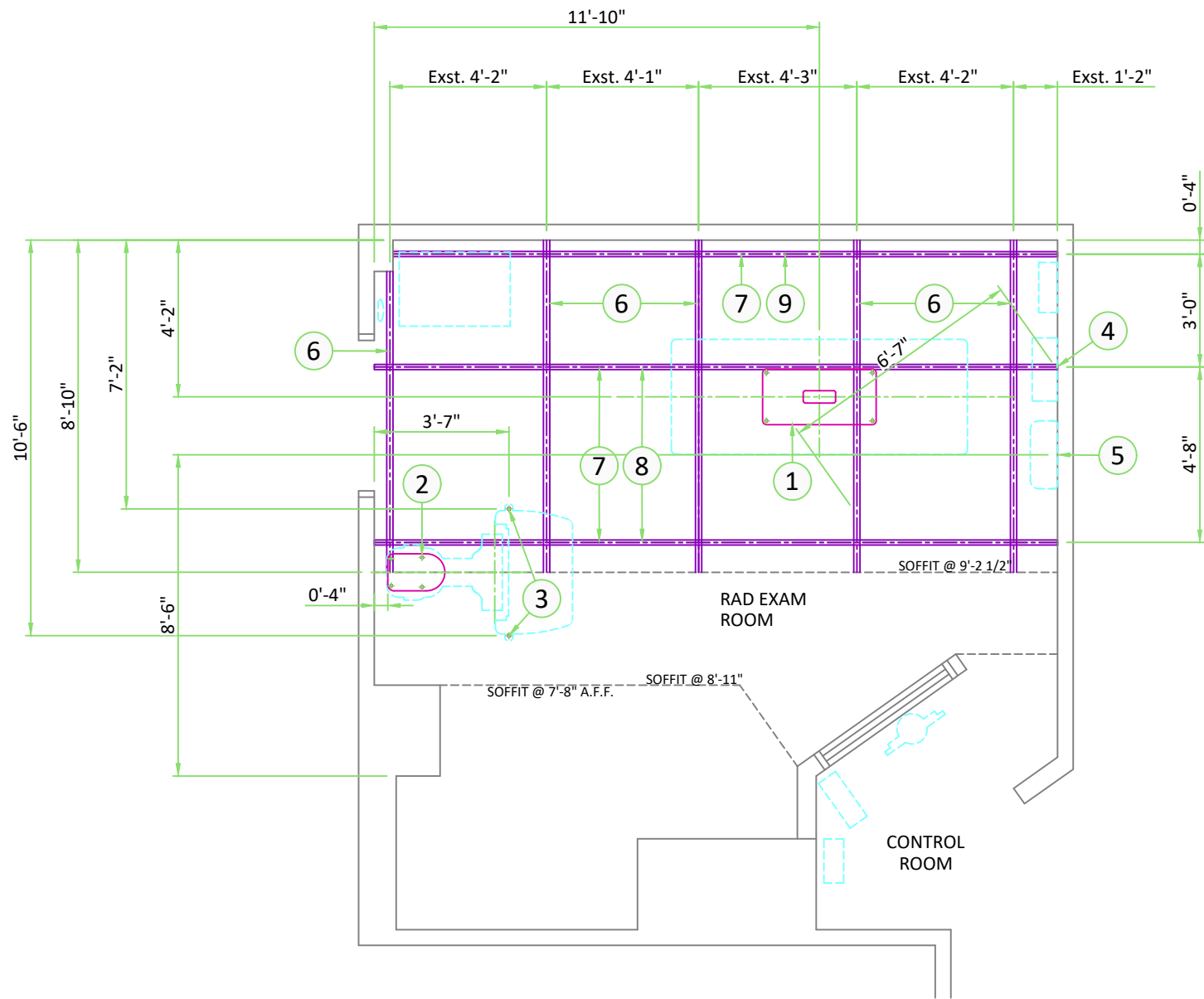
It is recommended that sprinkler heads not be placed between the stationary rails. All sprinkler heads should be mounted so they do not extend downward more than 6.35 mm [1/4 in] from the ceiling while in the 'resting' position.

In addition, there should not be anything mounted in the ceiling (i.e. lights, A/C returns, etc) between the stationary rails. This is because the OTS longitudinal drive belt assembly is located on the movable bridge, approximately centered between the two stationary rails, and may come into contact with those ceiling-mounted items during normal use.

Stationary rails are designed for top (ceiling) mounting. Rails can be ordered and are supplied in the following sizes:

- | | |
|------------------------|------------------------|
| - 4115 mm [13 ft 6 in] | - 5334 mm [17 ft 6 in] |
| - 4420 mm [14 ft 6 in] | - 5640 mm [18 ft 6 in] |
| - 4724 mm [15 ft 6 in] | - 5791 mm [19 ft] |
| - 5030 mm [16 ft 6 in] | |

The choice of length depends on room size, configuration and the possible presence of obstructions.

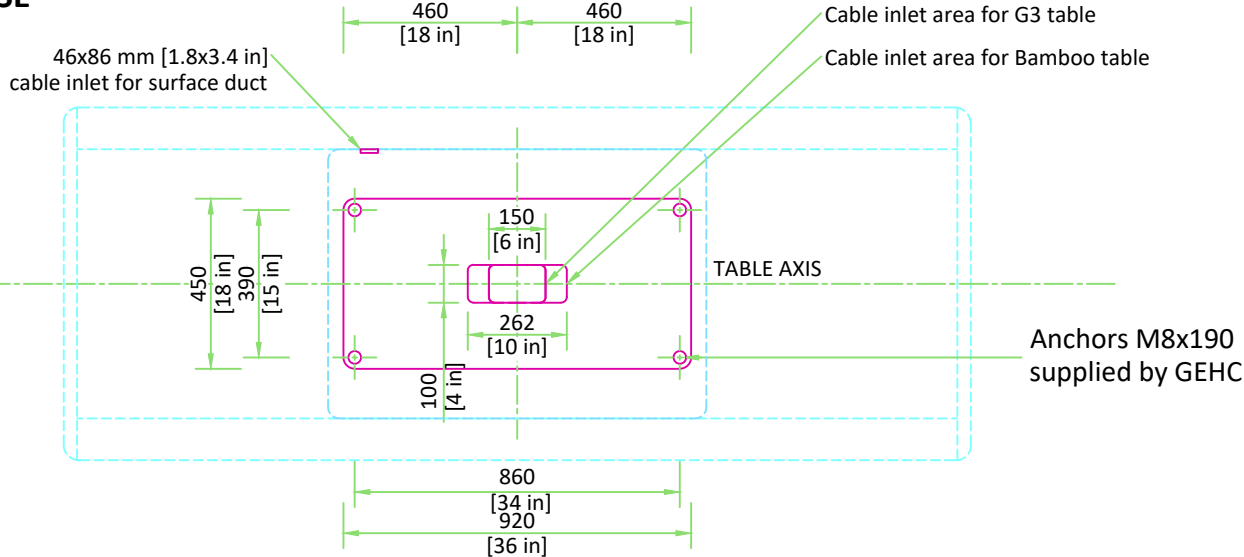


ITEM	DESCRIPTION
(GE SUPPLIED / CONTRACTOR INSTALLED)	
1	Area occupied by GE supplied table baseplate
2	Area occupied by GE supplied wall stand baseplate
3	Image paste barrier floor puck locations; template provided
(CONTRACTOR SUPPLIED & INSTALLED)	
4	Support backing for Grid Holder, locate as shown. Refer to Equipment Detail page.
5	Support backing for Detector Bin, locate as shown. Refer to Equipment Detail page.
6	Reuse existing if adequate. Structural support in ceiling for fastening ceiling supported equipment. Supports to run continuous with no fittings extending below face of channel, run wall to wall, be parallel, square, and in the same horizontal plane, flush with the finished ceiling. Rails are mounted to these supports every 2'-2" and require 350 lbs. (597 lbs. In seismic regions) per bolt load. Methods of support that permit attachment to structural steel or through bolts in concrete should be favored. Do not use screw anchors in direct tension.
7	P10001 or equivalent to attach to existing ceiling grid. Structural support in ceiling for fastening ceiling supported equipment. Supports to run continuous with no fittings extending below face of channel, run wall to wall, be parallel, square, and in the same horizontal plane, flush with the finished ceiling. Rails are mounted to these supports every 2'-2" and require 350 lbs. (597 lbs. In seismic regions) per bolt load. Methods of support that permit attachment to structural steel or through bolts in concrete should be favored. Do not use screw anchors in direct tension.
8	Location of stationary rails attached to existing gridded ceiling.
9	Location of cable chain attached to existing gridded ceiling.

[P1001 & Usable ceiling height Note:](#)
This layout uses P10001 to attach the rails to the existing non-standard grid. This reduces the usable ceiling height from 9'-2 1/2" to 8'-11".

TABLE ANCHORING

TABLE BASE



- The floor bearing the system is recommended to be concrete and the thickness to be determined by a Structural Engineer to properly support the equipment loads. The supplied anchors require a minimum embedment of 90 mm [3.5 in] into the concrete. If the floor thickness is less than 95 mm [3.74 in], it is recommended that the unit be secured using a through-bolt method with a reinforcement plate on the back side.
- Recommended concrete strength is C30 or equivalent.

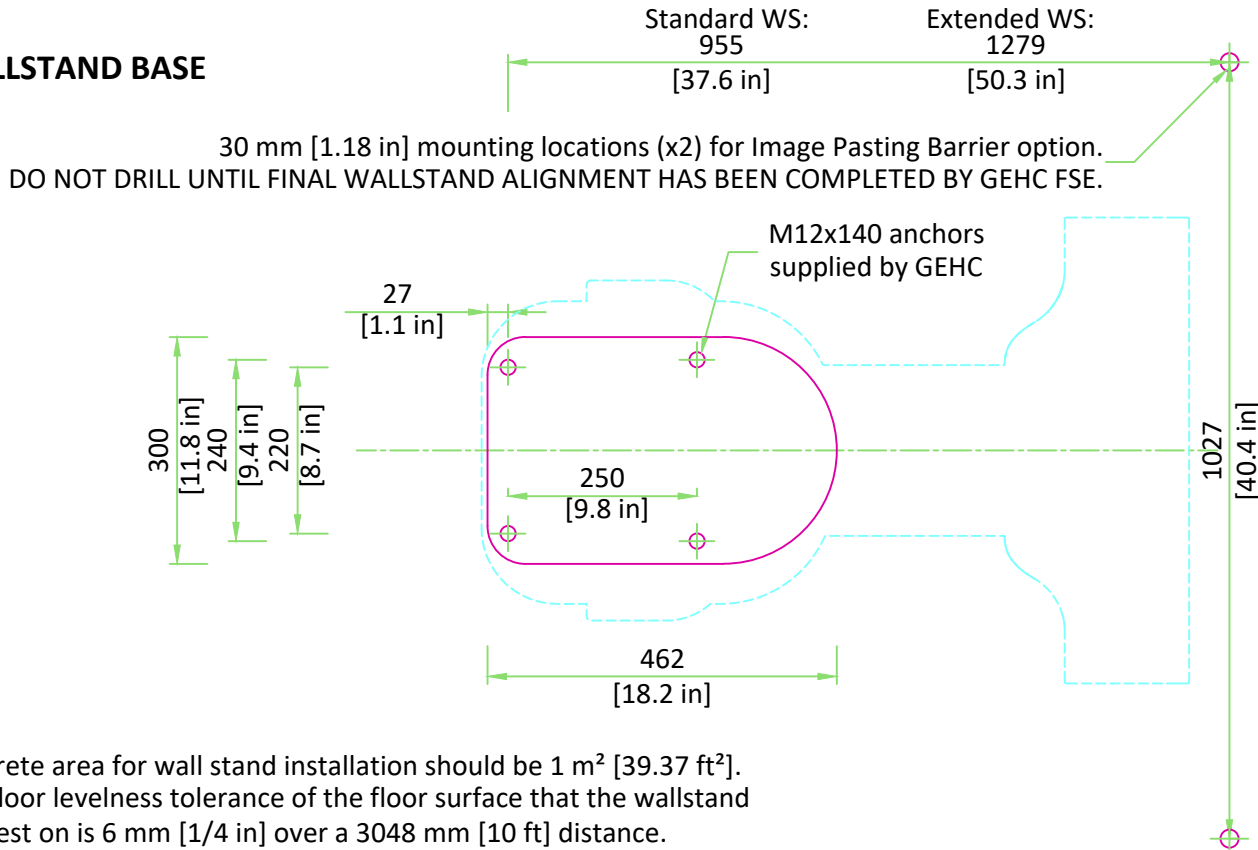
FLOOR LEVELNESS

6mm [1/4 in] maximum variance over 3048mm [10 ft]

SCALE 1:20

WALLSTAND ANCHORING

WALLSTAND BASE



Concrete area for wall stand installation should be 1 m² [39.37 ft²]. The floor levelness tolerance of the floor surface that the wallstand will rest on is 6 mm [1/4 in] over a 3048 mm [10 ft] distance.

SCALE 1:10

OTS SUSPENSION RAILS MOUNTING SPECIFICATIONS

3 m BRIDGE

When a 22.7 kg [50 lb] force is applied vertically upward, downward or horizontally at any support rail mounting point, the attachment interface must not deflect more than 1.5 mm [1/16 in]

When a 136 kg [300 lb] load is applied vertically downward or horizontally at any stationary rail mounting point, the attachment interface must not deflect more than 1.5 mm [1/16 in]

Rec: 660.4 ±1.5 mm
[26 ±1/16 in].
Max: 1320 mm [52 in]
with universal rail option.

The bottom surface of stationary rail and cable support rail must be flat, no obvious protrusions larger than 1mm. (only applicable for non-Unistrut construction)

Stationary rail mounting points must be parallel within ± 3 mm [$\pm 1/8$ in]

When a 45.4 kg [100 lb] force is applied vertically upward at any stationary rail mounting point, the attachment interface must not deflect more than 1.5 mm [1/16 in]

min. 870/rec. 915/max. 960 ± 3 mm
[min. 34.3/rec. 36/max. 37.8 $\pm 1/8$ in]

1422 ±3 mm
[56 ±1/8 in]

Diagonals must be equal
within ± 6.5 mm [$\pm 1/4$ in]

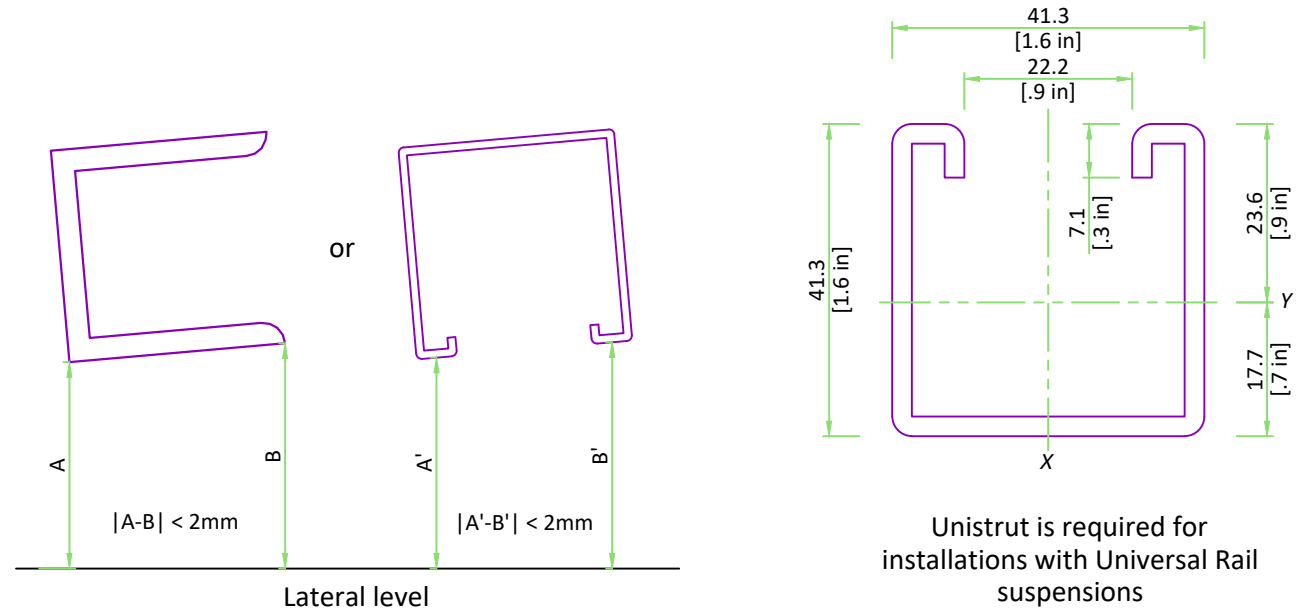
→ All mounting point must be located on a common centerline within $\pm 1.5 \text{ mm}$ [$\pm 1/16 \text{ in}$]

All mounting points must be in the same horizontal plane within $\pm 2.4\text{mm}$ [$\pm 3/32$ in]

Distance between holes axis 660.4 mm [26 in], Maximum load per bolt is 159 kg [350 lb], however each mounting bolt must not "PULL OUT" or otherwise fail under a vertically downward dead load of 636 kg [1400 lb]. Bolts for mounting stationary rails on Unistrut or equivalent supplied by GE (1/2" - 13 headed bolts)

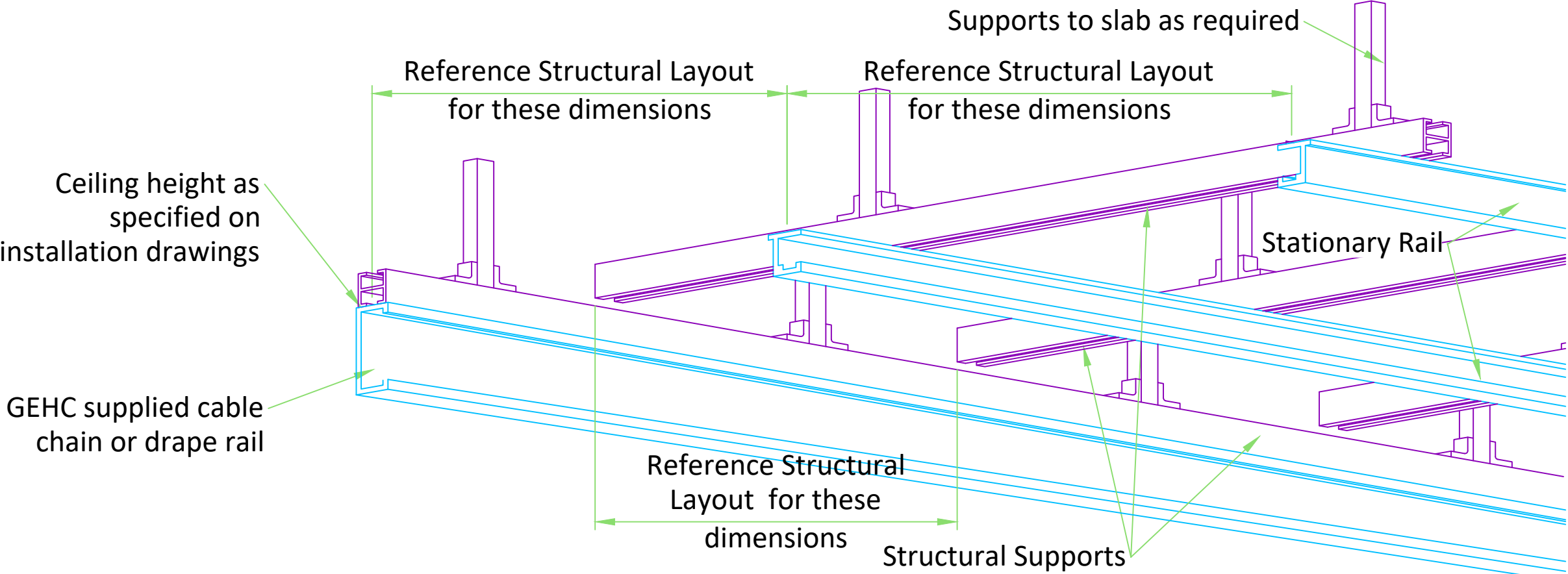
ADDITIONAL RAIL REQUIREMENTS

The bottom surface of the stationary rail and cable support rails must be horizontal, and the height difference between each support rail edge along the lateral direction must be less than 2 mm (or angle with level along lateral direction must less than 2°).



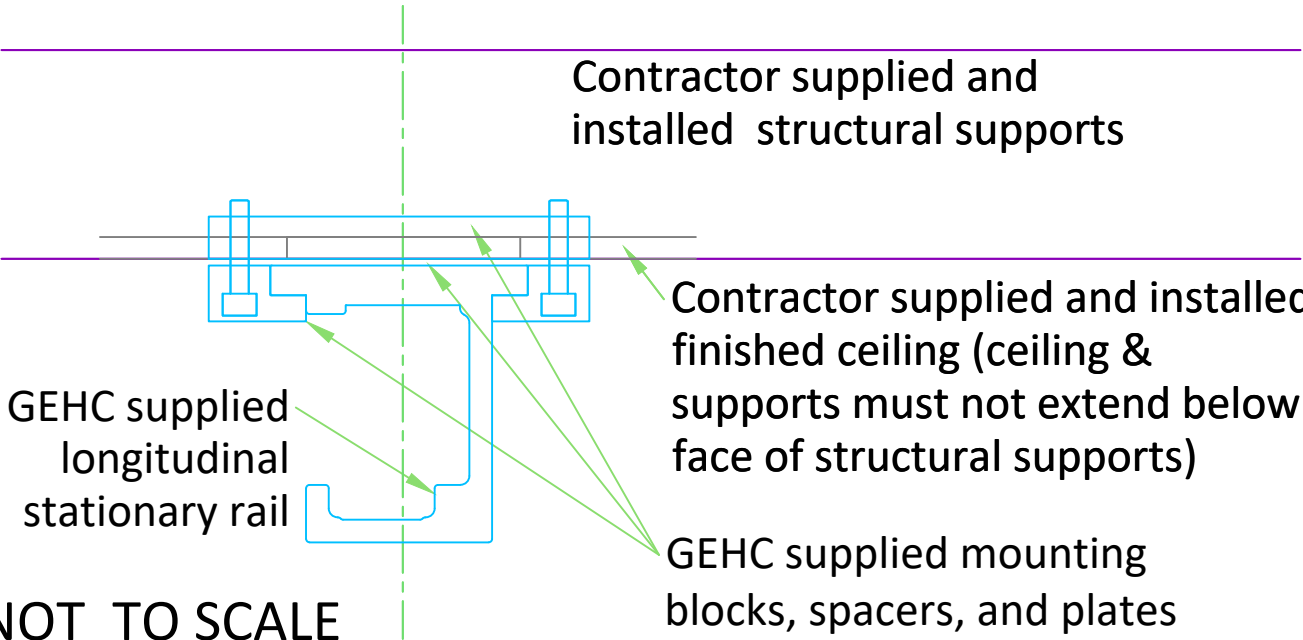
Unistrut is required for installations with Universal Rail suspensions

SUGGESTED UNISTRUT STRUCTURE FOR OTS SUSPENSION

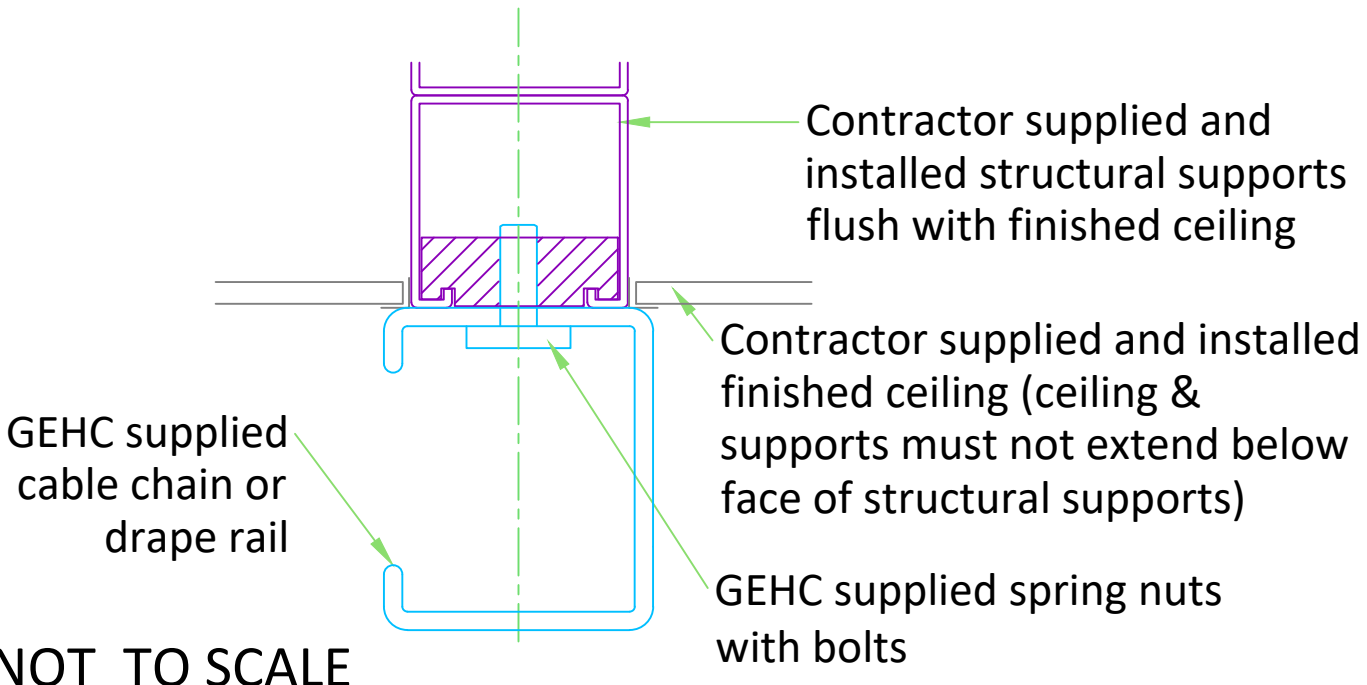


STRUCTURAL SUPPORT SYSTEM IS NOT SUPPLIED OR INSTALLED BY GE HEALTHCARE

DETAIL 1



DETAIL 2



TEMPERATURE AND HUMIDITY SPECIFICATIONS

IN-USE CONDITIONS

	EXAM ROOM		CONTROL ROOM	
Temperature	Min	Max	Min	Max
	15°C [59°F]	32°C [89.6°F]	15°C [59°F]	32°C [89.6°F]
Temperature gradient	< 10°C/h [< 50°F/h]		< 10°C/h [< 50°F/h]	
Relative humidity (1)	20% to 75%		20% to 75%	
Humidity gradient	< 30%/h		< 30%/h	

STORAGE CONDITIONS

Temperature	-5°C [23°F] to +50°C [122°F]
Temperature gradient	< 20°C/h [< 68°F/h]
Relative humidity (1)	10% to 85%
Humidity gradient	< 30%/h

Storage longer than 90 days is not recommended.

(1) Non-condensing

AIR RENEWAL

According to local standards.

NOTE
In case of using air conditioning systems that have a risk of water leakage it is recommended not to install it above electric equipment or to take measures to protect the equipment from dropping water.

HEAT DISSIPATION DETAILS

SYSTEM POWER CONSUMPTION	HEAT OUTPUT			
	STANDBY		IN-USE	
Standby Power	1.0 kW	3412 BTU/hr		
Standby Current	2.0 A			
Continuous Power			2.2 kW	7507 BTU/hr
Continuous Current			4.5 A	

CONNECTIVITY REQUIREMENTS

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

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

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

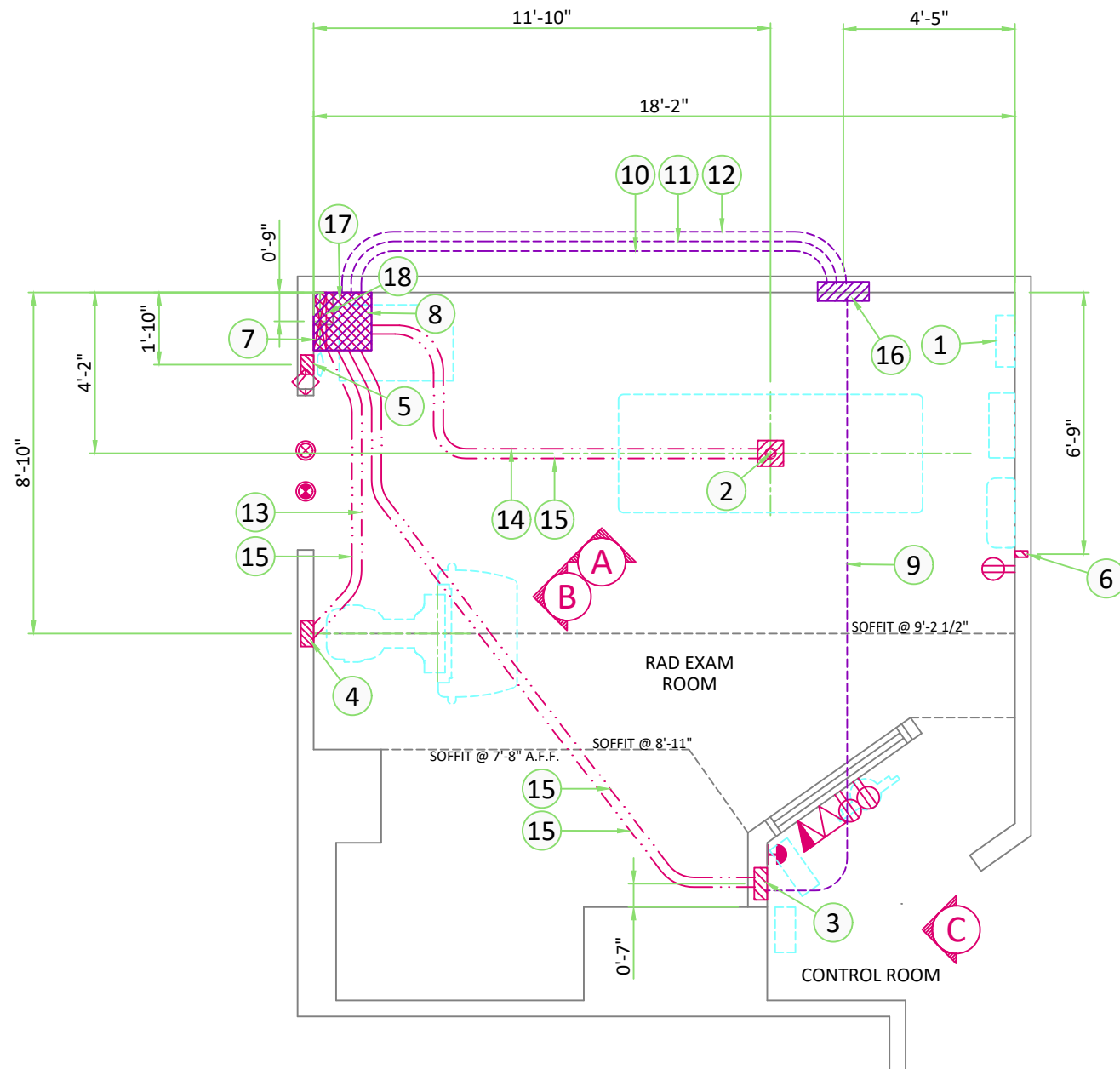
1. TLS over TCP Port 443 (Preferred method for new products) via:
 - a. DNS resolution
 - b. Customer-provided Proxy or
 - c. GE Proxy (Available in some regions)
2. Site-to-Site IPsec VPN tunnel

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

ELECTRICAL NOTES

1. Aluminum or solid wires are not allowed.
2. Wire sizes given are for use of equipment. Larger sizes may be required by local codes.
3. It is recommended that all wires be color coded, as required in accordance with national and local electrical codes.
4. Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or national codes.
5. Convenience outlets are not illustrated. Their number and location are to be specified by others. Locate at least one convenience outlet close to the system control, the power distribution unit and one on each wall of the procedure room. Use hospital approved outlet or equivalent.
6. General room illumination is not illustrated. Caution should be taken to avoid excessive heat from overhead spotlights. Damage can occur to ceiling mounting components and wiring if high wattage bulbs are used. Recommend low wattage bulbs no higher than 75 watts and use dimmer controls (except MR). Do not mount lights directly above areas where ceiling mounted accessories will be parked.
7. Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).
8. Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local electrical codes.
9. In some cases GEHC will specify ground wires to be sized larger than code. In these situations, the GEHC specification must be followed.
10. A special grounding system is required in all procedure rooms by some national and local codes. It is recommended in areas where patients might be examined or treated under present, future, or emergency conditions. Consult the governing electrical code and confer with appropriate customer administrative personnel to determine the areas requiring this type of grounding system.
11. The maximum point to point distances illustrated on this drawing must not be exceeded.
12. Physical connection of primary power to GEHC equipment is to be made by customers electrical contractor with the supervision of a GEHC representative. The GEHC representative would be required to identify the physical connection location, and insure proper handling of GEHC equipment.
13. GEHC conducts power audits to verify quality of power being delivered to the system. The customer's electrical contractor is required to be available to support this activity.
14. Every installation is unique. The electrical contractor will be required to support the installation of the GEHC equipment by providing knockouts, grommeted openings, bushings, etc. as required. All power connections to be performed by the electrician.

- All junction boxes, conduit, duct, duct dividers, switches, circuit breakers, cable tray, etc., are to be supplied and installed by customers electrical contractor. All junction boxes shall be provided with covers.
- Conduit and duct runs shall have gradual sweep radius bends.
- Conduits and duct above ceiling or below finished floor must be installed as near to ceiling or floor as possible to reduce run length.
- Ceiling mounted junction boxes illustrated on this plan must be installed flush with finished ceiling.
- All ductwork must meet the following requirements:
 - 1.Ductwork shall be metal with dividers and have removable, accessible covers.
 2. Ductwork shall be certified/rated for electrical power purposes.
 3. Ductwork shall be electrically and mechanically bonded together in an approved manner.
 4. PVC as a substitute must be used in accordance with all local and national codes.
- All openings in raceway and access flooring are to be cut out and finished off with grommet material by the customers contractor.
- Electrical contractor to provide measured pull strings in all conduit and raceway runs.
- Provide 10 foot pigtails at all junction points.
- Grounding is critical to equipment function and patient safety. Site must conform to wiring specifications shown on this plan.

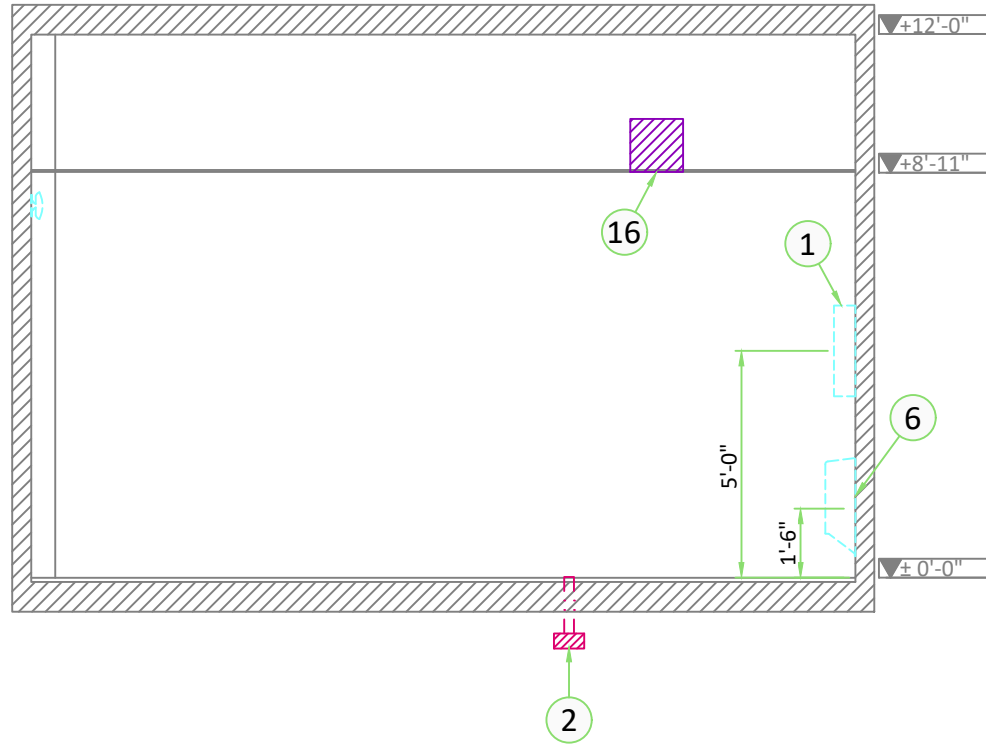


Item	Electrical Layout Item List
1	Main Disconnect Panel
2	Box below floor size per local code, with 3" [75] conduit cut flush with floor
3	Flush 12"x6"x4" [300 x 150 x 100] box (Operator's console)
4	Flush box - size per local code (Wall stand)
5	Flush box - size per local code (Access Point)
6	Flush box - size per local code (Detector Bin)
7	18" x 3 1/2" [450 x 100] Flush vertical wall duct with minimum 2 dividers
8	Box below floor - size per local code
9	One 1" [25] conduit above ceiling
10	One 2" [50] conduit above ceiling
11	One 2 1/2" [64] conduit above ceiling
12	One 3 1/2" [89] conduit above ceiling
13	One 1 1/2" [38] conduit below floor
14	One 2" [50] conduit below floor
15	One 2 1/2" [64] conduit below floor
16	Flush box in ceiling - size per local code (OTS)
17	Box above ceiling - size per local code
18	Grommeted opening (Systems cabinet)

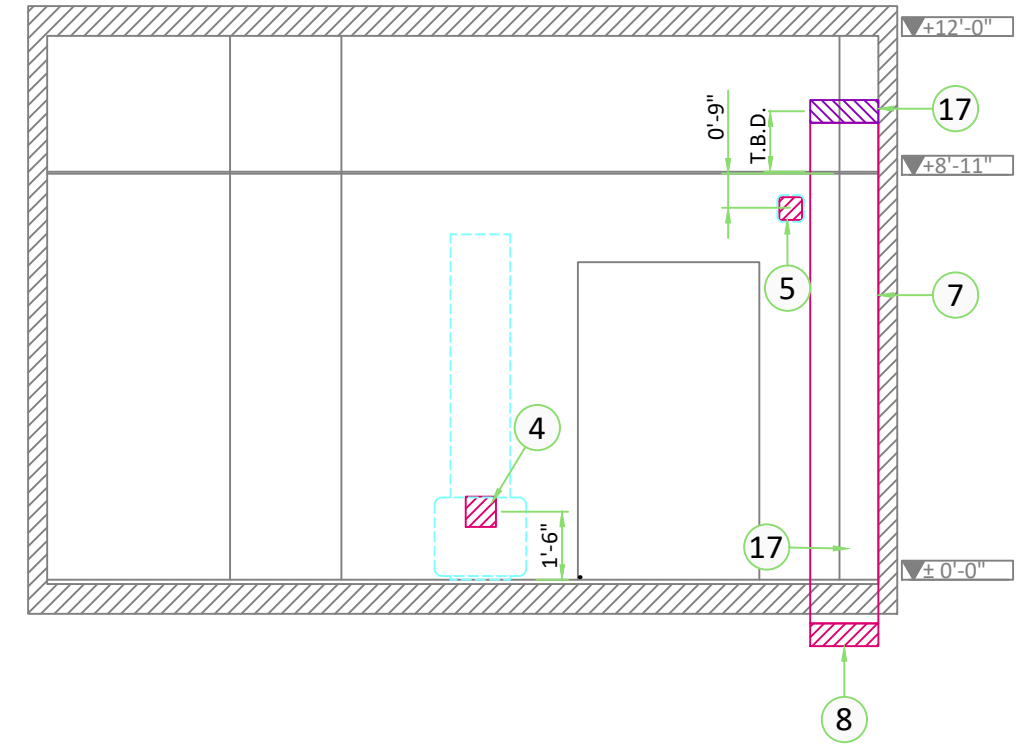
ITEM	Electrical Outlet Legend
	Customer/contractor supplied and installed items unless otherwise specified. Height above floor determined by local codes unless otherwise specified.
	System emergency off (SEO), (recommended height 1.2m [48"] above floor)
	X-Ray room warning light control panel
	X-Ray ON lamp (L1) - 24V
	Door interlock switch (needed only if required by state/local codes)
	Duplex hospital grade, dedicated wall outlet 120-v, single phase power
	Dedicated telephone line(s)
	Network outlet

Cable Length Note:
Routing of cable ductwork, conduits, etc., **must run direct as possible** otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).

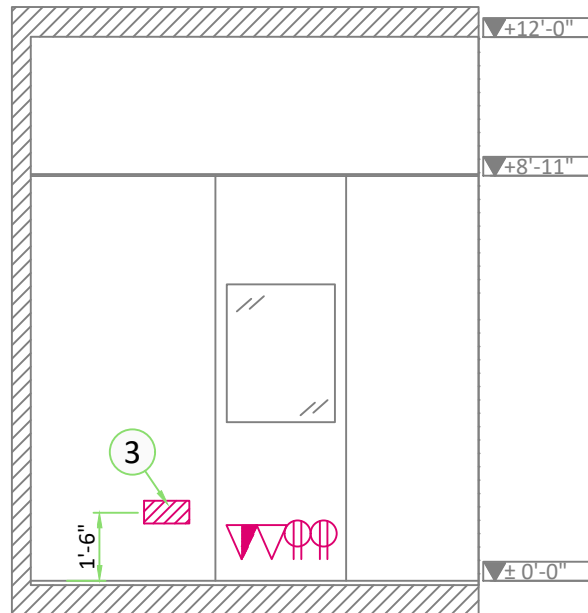
Additional Conduit Runs (Contractor Supplied and Installed)					
From (Bubble # / Item)	To (Bubble # / Item)	Qty	Size		
			In.	mm	
3 Phase Power	1 Main Disconnect	1	As req'd	As req'd	
	Emergency Off	1	1/2	13	
1 Main Disconnect	7 Systems Cabinet	1	As req'd	As req'd	
Warning Light	Warning Light Control	1	1/2	13	
1 Phase Power		1	As req'd	As req'd	
		1	1/2	13	
7 Systems Cabinet	Door Switch	1	1/2	16	
	5 Access Point	1	1	27	
	6 Detector Bin	1	1	27	
3 Operators Console	5 Access Point	1	2	53	



A

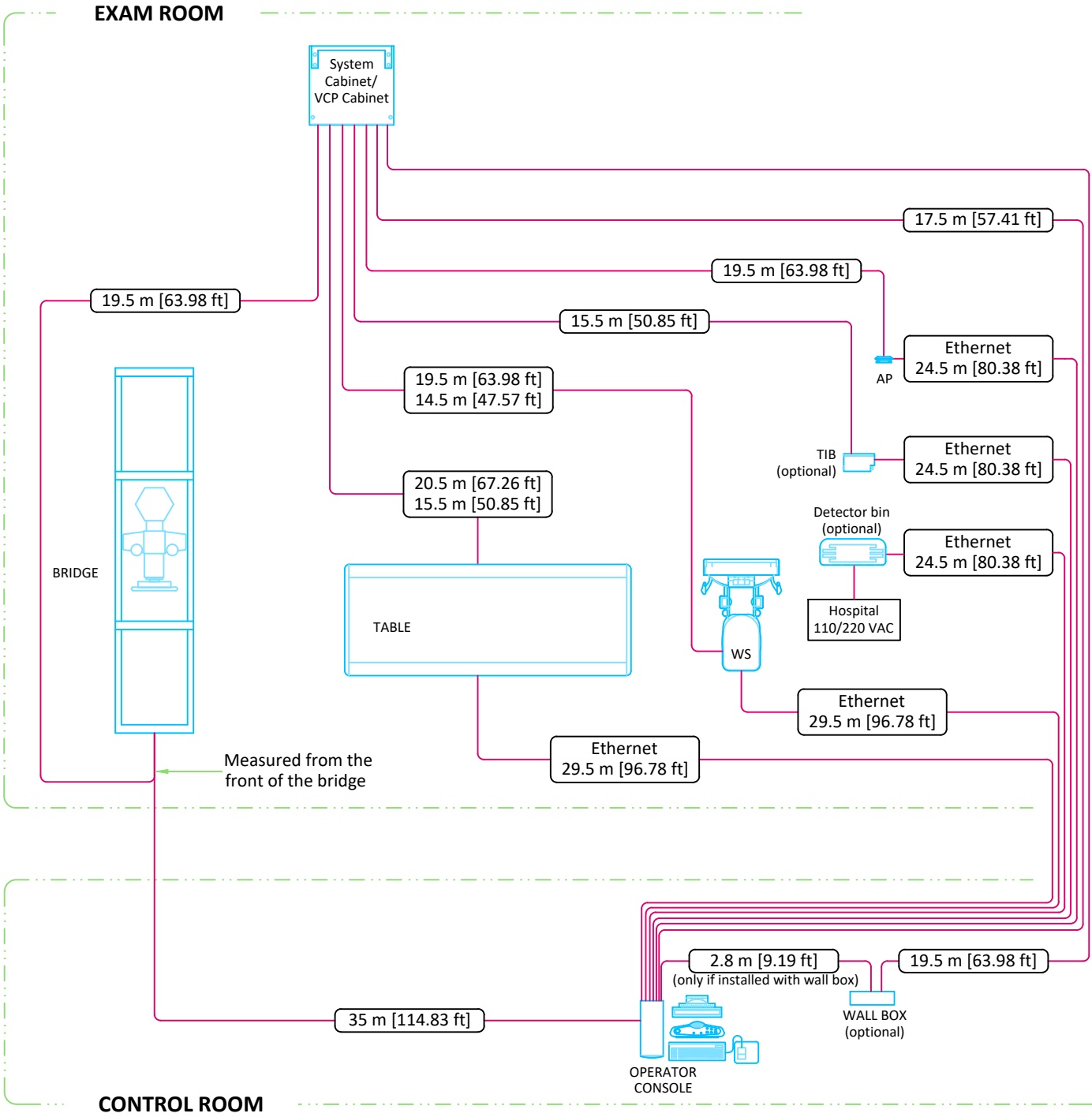


B



C

INTERCONNECTIONS

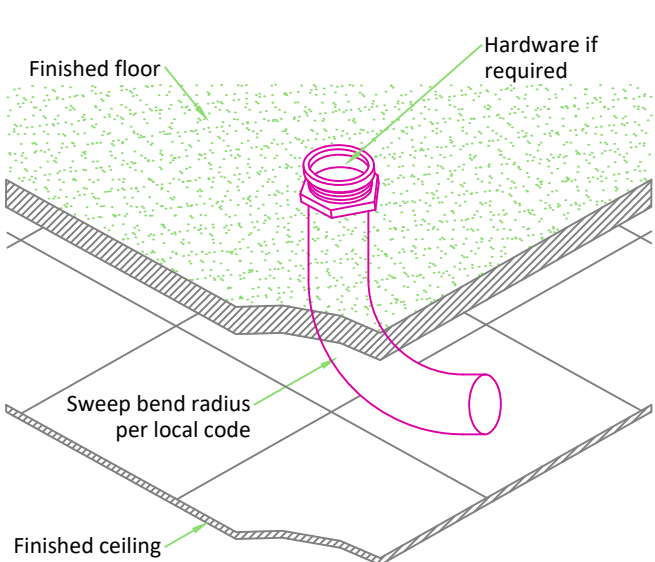


ROUTE ALL CABLES AS DIRECTLY AS POSSIBLE.

.....m [.....ft] - Long usable length
.....m [.....ft] - Standard usable length

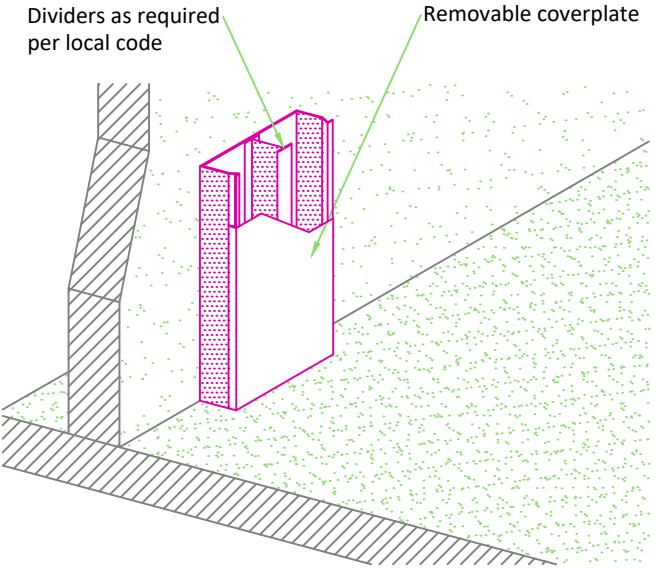
TYPICAL CABLE MANAGEMENT

CONDUIT BELOW FLOOR

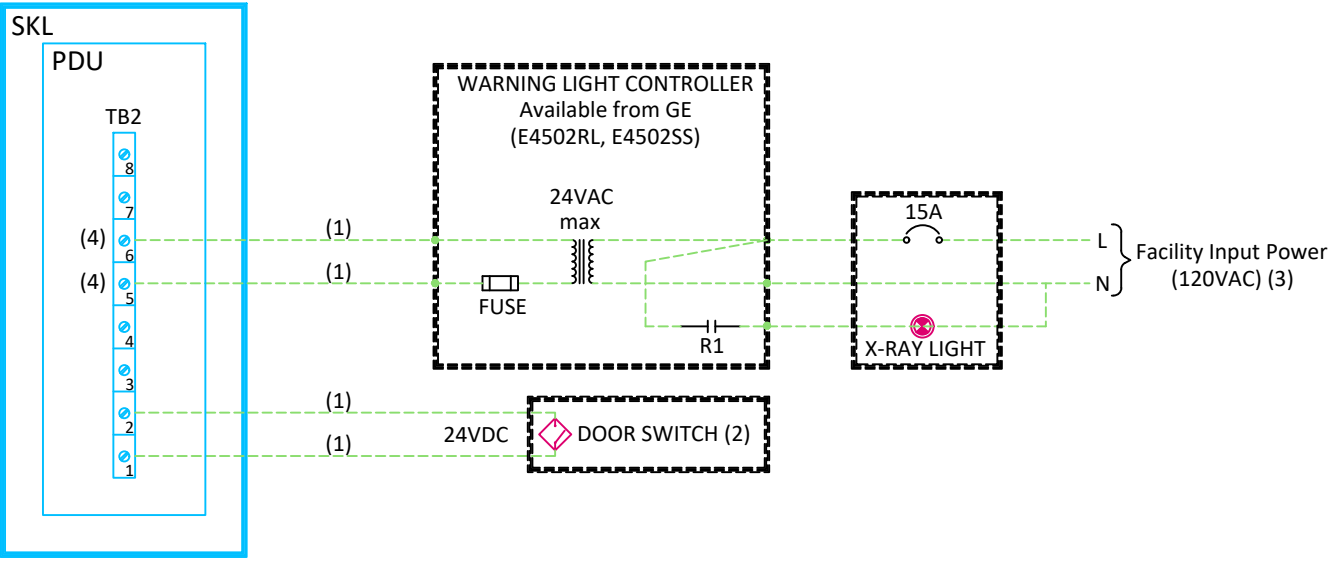


NOT TO SCALE

VERTICAL DUCT ON WALL



EXAM ROOM WARNING LIGHT AND DOOR INTERLOCK



- Notes :
- (1) Wire size: 2mm² [14 AWG] at 24V
 - (2) Door Interlock circuit is jumpered out if a door switch is not provided.
 - (3) Grounding not shown on the detail, but must comply with local codes.
 - (4) Normally open relay contact in cabinet

--- Cable SUPPLIED BY CUSTOMER	□ Fuse
— Cable SUPPLIED BY GE	⏏ Relay coil and contact - normally open (de-energized state)
--- Equipment SUPPLIED BY CUSTOMER	⏏ Control power transformer
— Equipment SUPPLIED BY GE	⏏ Circuit breaker
PDU Power Distribution Unit	
SKL System Cabinet	
TB2 Terminal Block 2	

POWER REQUIREMENTS

POWER SUPPLY	380/400/415/440/460/480V ±10%, Wye THREE-PHASE + G
FREQUENCIES	50/60Hz ± 3Hz
POWER DEMAND	125kVA
MAXIMUM LINE RESISTANCE PER 2 PHASES (Ohm)	380V : 0.096/ 400V : 0.100 / 415V : 0.113 440V : 0.125 / 480V : 0.150

- Shunt trip circuit breaker required. The main circuit breaker supplied by the customer must be sized in accordance with local regulations. The Customer's Mains Disconnect Panel (MDP) must supply the LOTO capability.
- he section of the supply cable should be calculated in accordance with its length and the maximum permissible voltage drops.
- There must be discrimination between supply cable protective material at the beginning of the installation (main low-voltage transformer side) and the protective devices in the MDP.

SUPPLY CHARACTERISTICS

- Power input must be separated from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers...)
- All equipment (lighting, power outlets, etc...) installed with GEHC system components must be powered separately.

GROUND SYSTEM

- Equipotential : the equipotential link will be by means of an equipotential bar. This equipotential bar should be connected to the protective earth conductors in the ducts of the non GEHC cableways and to additional equipotential connections linking up all the conducting units in the rooms where GEHC units are located.

CABLES

- Power and cable installation must comply with the distribution diagram below.
- All cables must be isolated and flexible.
- Cable color codes must comply with standards for electrical installation.
- If MDP is supplied by GEHC : The cables for signals and remote control (SEO, XRL1...) will go to MDP with a pigtail length of 1.5 m (4.9 ft), and will be connected during installation. Each conductor will be identified and isolated (screw connector).

CABLEWAYS

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

- Protecting cables against water (cableways should be waterproof)
- Protecting cables against abnormal temperatures (proximity to heating pipes or ducts)
- Protecting cables against temperature shocks
- Replacing cables (cableways should be large enough for cables to be replaced) metal cableways should be grounded.

POWER DISTRIBUTION

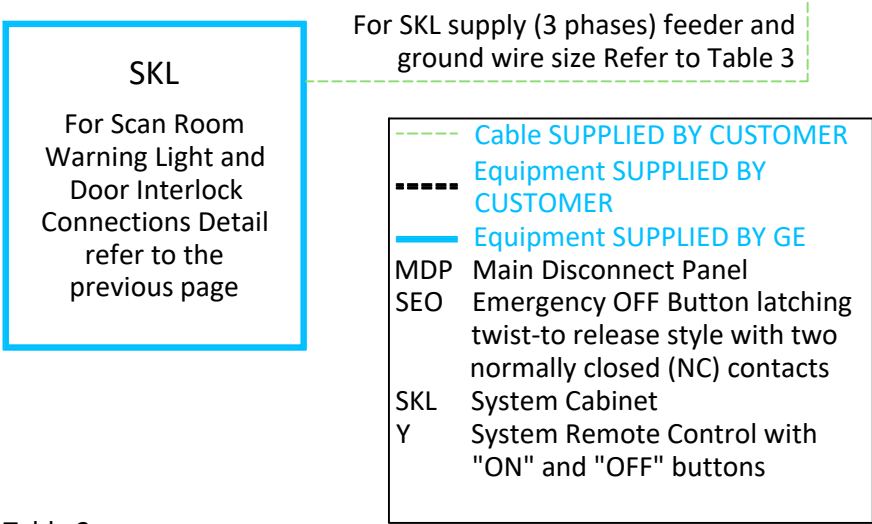
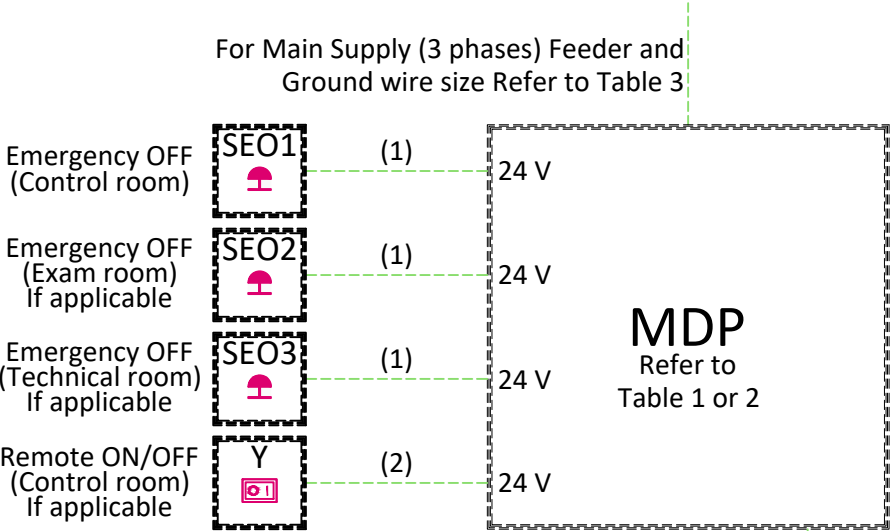


Table 2:

Recommended minimum customer supplied Main Disconnect Panel (MDP) rating	
Power/Voltage	80 kW
380 V	95 A
400 V	90 A
415 V	85 A
440 V	82 A
460 V	78 A
480 V	75 A

Table 3:

Feeder Table - JEDI 80kW Systems Cabinet						
• Calculations based on nominal voltage. • Recommended feeder sizes from distribution transformer to the power cabinet. • Neutral must be terminated inside the Main Disconnect Panel (MDP) and not at any GE cabinet • If the wire size does not match the table below, please select the nearest wire size as per to local standards.						
Wire run length ft (m)	Minimum Wire Size, AWG or MCM (mm²)/VAC					
	380 VAC	400 VAC	420 VAC	440 VAC	460 VAC	480 VAC
50 (15)	2 (35)*	2 (35)*	2 (35)*	2 (35)*	2 (35)*	2 (35)*
100 (30)	2 (35)*	2 (35)*	2 (35)*	2 (35)*	2 (35)*	2 (35)*
150 (46)	1/0 (55)	1 (45)	1 (45)	2 (35)*	2 (35)*	2 (35)*
200 (61)	2/0 (70)	2/0 (70)	1/0 (55)	1/0 (55)	1 (45)	1 (45)
250 (76)	3/0 (85)	3/0 (85)	2/0 (70)	2/0 (70)	1/0 (55)	1/0 (55)
300 (91)	4/0 (100)	4/0 (100)	3/0 (85)	3/0 (85)	2/0 (70)	2/0 (70)
350 (107)	300M (150)	250M (125)	4/0 (100)	4/0 (100)	3/0 (85)	3/0 (85)
400 (122)	350M (175)	300M (150)	250M (125)	4/0 (100)	4/0 (100)	3/0 (85)
450 (138)	400M (200)	350M (175)	300M (150)	250M (125)	250M (125)	4/0 (100)
*minimum wire size for circuit breaker, based on recommended overcurrent protection						
Grounding						
The grounding conductor will be of same size as the feeder. This ground will run from the equipment back to the facility power source/main grounding point and always travel in the same conduit with the feeders and neutral.						

Notes :

- (1) Wire size: 2x1.5mm² [16AWG]
(2) Wire size: 6x2mm² [14AWG] and 1x2mm² [14AWG] GND