The Medical Center of Aurora

Tom Thompson Architect
Envision Collaborate Create

PROJECT
The Medical Center of Aurora
Hybrid OR 9
1501 S. Potomac St.
Aurora, CO 80012

Revision #1-5: Date of Issuance: 3-3-2021

Project Number: 190318

OWNER
The Medical Center of Aurora
Regina Shklyan
1501 S. Potomac St.
Aurora, CO 80012

FROM ARCHITECT
Tom Thompson
2510 S. Osceola St.
Denver, CO 80219

TO CONTRACTOR
GH Phipps
5995 Greenwood Plaza Blvd., Suite 100
Greenwood Village, CO 80111

The items below are revisions 1-5 to the original Construction Documents dated 01/14/2020. Revisions described below and indicated on the attached revised plans:

REVISION #1 DESCRIPTION:

G.0 – Cover Sheet
1. State code & guidelines.

G100 – Construction Notes
1. Fire proofing and fire treated wall backing clarifications.

AD101 – Demolition Plan / Conduit Trench Plan
1. Contractor to remove device covers where existing dry wall is to be replaced with lead-lined drywall.
2. Clarification on existing door demolition.
3. Plan notes with dimensions for wall section removals.
4. Added note for contractor to anticipate substantial floor grinding & floating to meet floor specification requirements.

AD102 – Ceiling Demolition Plan
1. Clarification on limits of existing ceiling demolition area.
2. Additional notes for managing existing ceiling devices.
3. Light fixture removal note.

A101 – Floor Dim/Tag Plan, Finishes Plan
1. Locations shown for new surface mounted wall duct.

2. Floor finishes plan revised to include an eight inch border of the Silikal material along perimeter wall of procedure room with additional flooring notes.
3. New door and window hardware changes and descriptions.
4. New paint type and color added for the procedure room ceiling.

A102 – Equipment Floor Plan

1. New keynote showing existing isolation panel location.
2. Added note for contractor to coordinate with flooring contractor regarding millwork installation and flooring rolled base.
3. Additional general note referencing roof penetration curb detail.

A103 – Reflected Ceiling Plan / Ceiling Equipment Plan

1. Note referencing new paint selection for OR ceiling.
2. Clarification note for contractor's requirement for mounting fabricated structural plate to GE CMS mount.

A401 – Elevations

1. Added note and locations for rolled floor wall base.
2. Hospital supplied communication dry erase board mounting location
3. New push/pull door handle hardware shown on single door as a replacement to the latching lever set.
4. Note added for contractor to work with owner on lead apron rack placement for proper wall backing.
5. Surface mounted wall duct shown in elevations.

A402 – Elevations / Sections / Details

1. New roof pipes penetration curb detail.

E003 – Electrical Details

1. Permit comment responses for Panel MDP

REVISION #2 DESCRIPTION:

ED-101 – Demolition Plan Electrical

1. Existing wall mounted clock & elapsed timer to remain

E101 – Enlarged Plan Electrical

1. Plan note change

A101 – Floor Dim/Tag, Finishes Plan

1. Plan note for description of change

REVISION #3 DESCRIPTION:

G.0 – Cover Sheet: Added general contractor

AD102 – Ceiling Demolition Plan: Removed keynote 1, existing clock/timer back box opening are to remain.

A101 – Floor Dim/Tag Plan, Finishes Plan: Relocated keynote 6 to existing clock/timer location for contractor to install new back boxes.

A401 – Elevations: OR North Elevation #2 – Removed previously proposed clock/timer location from drawing.

REVISION #4 DESCRIPTION:

A101 – Floor Dim/Tag Plan, Finishes Plan:

1. Control room lead-lined window added to door/glazing schedule.
2. Procedure room ceiling paint specification change.
3. Casework and control dimensions updated per site verifications.

E002 – Electrical Riser Diagram: Increased grounding conductor in the feeder to MDP.

E101 – Enlarged Electrical Plan:

1. Addition of ground bus in the equipment room with clarification on the grounding requirements for GE/Stryker conduits.
2. Updated conduit schedule (The only changes are names. No conduit sizes changed)
3. Addition of J3 box in control room.
4. Addition of P box above window in OR.
5. Clarified mounting height of the other P boxes and R box in OR.
6. Updated conduit schedule with missing conduits.
7. Adjusted locations of boxes shown under isolated panels to aid in installation.
8. Added conduit for future Ethernet to monitor boom.
9. Added duplex receptacle in control room.
10. Revised the specification of lighting fixture M1.
11. Increase the size of the 2” conduit from the control room to the operator workstation to 3”.
12. Added ground lug for the flooring.

REVISION #5 DESCRIPTION:

G101 – Code Compliance Plan

1. Enlarged plan shows completed construction background with updated life safety.

A101 – Floor Dim/Tag Plan, Finishes Plan:

1. Flooring specification change in Control Room & Procedure Room.

GE Site Specific Plans – Updated equipment plan drawings.

ATTACHMENTS: Drawings - revised Construction Document Sheets: G0, G100, G101, AD101, AD102, A101, A102, A103, A401, A402, E002, E003, ED101, E101, GE Site Specific Plans (C1, C2, A1, A2, A3, A4, A5, A6, A7, S1, S2, S3, S4, S5, M1, E1, E2, E3, E4, E5, E6, E7)

WMA CONSULTING ENGINEERS
a Salas O'Brien Company

February 10, 2020

City of Aurora
Building Division
15151 East Alameda Parkway, 2nd Floor
Aurora, CO 80012

Attention: William Griffin

PERMIT REVIEW COMMENTS – RESPONSE NARRATIVE

Project: TMCA Hybrid OR
Project Address: 1501 South Potomac Street
Project Reference No.: 1431550

Dear Mr. Griffin,

We have reviewed the permit review comments dated 1/21/2020 and have made revisions and comments to the drawings as described below. Please reach feel free to reach out to us for any further clarifications or questions.

ELECTRICAL		
Comment #		
1	Comment:	Panel Schedule for ECLOR is not labeled as ECLOR. Need AIC rating of panel.
	Response:	Drawings have been updated to correct the cut off graphics which obscured the panel name and AIC rating. Revised sheet(s): E003
2	Comment:	Need panel schedule for new MDP and AIC rating.
	Response:	Drawings have been updated to include the panel schedule for MDP. Revised sheet(s): E003
3	Comment:	Need point to point fault current calculations starting from Xcel's transformer to panel MDP.
	Response:	Point-to-point fault current calculation and calculated fault current values added to riser diagram. Revised sheet(s): E002

Sincerely,

WMA CONSULTING ENGINEERS, LTD.

Michael P. Thompson, P.E.
Principal

9250 East Costilla Avenue Suite 220 Greenwood Village, Colorado 80112
P: 303.225.6320
www.salasobrien.com

THE MEDICAL CENTER OF AURORA

HYBRID OR 9 & GE DISCOVERY IGS 730 INSTALLATION

1501 S. POTOMAC ST., AURORA, CO 80012

City of Aurora Building Division
Project: Plan Revisions to RSN 1431550
Address: 1501 South Potomac Street
Occupancy Group: IBC I-2
Construction Type: UBC Type 1-F.R.-SPK
RSN: 1524487
Permit: 21-1941353-LR

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Bobby McKinzie
Date: Mar 16, 2021
2015 INTERNATIONAL CODES & 2020 NEC

PROJECT TEAM

OWNER

MEDICAL CENTER OF AURORA
1501 S. POTOMAC STREET
AURORA, COLORADO 80012

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MEP ENGINEER

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CONTRACTOR

GH PHIPPS

CONTACT:
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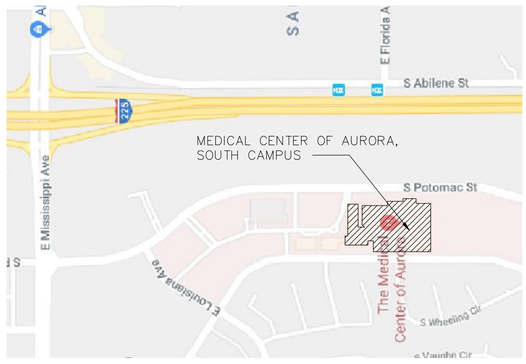
GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH ALL LOCAL LAWS, ORDINANCES, RULES, REGULATIONS AND CODES OF THE GOVERNMENT AUTHORITIES HAVING JURISDICTION.
2. DIMENSIONS ARE TO FINISHED FACE OF GYPSUM WALL BOARD OR FACE OF EXISTING BASE BUILDING CONSTRUCTION, UNLESS NOTED OTHERWISE.
3. VERIFY ALL ROUGH-IN DIMENSIONS AND ELECTRICAL REQUIREMENTS FOR EQUIPMENT. COORDINATE OUTLET PLACEMENT WITH CASEWORK.
4. CONTRACTOR SHALL NOTIFY OWNER BEFORE COMMENCING WORK ON ANY ITEMS NOT CLEARLY DEFINED.
5. CHANGES OR DEVIATIONS FROM THE PLANS MADE WITHOUT THE CONSENT OF OWNER ARE UNAUTHORIZED.
6. G.C. TO PROVIDE SEALANT AROUND ALL PLUMBING FIXTURES, PIPING AND EQUIPMENT ABUTTING OR PENETRATING A WALL OR PARTITION. COLOR TO MATCH.
7. INSTALL FIRE-SAFING INSULATION, PUTTY OR FIRE-RATED INTUMESCENT-TYPE SEALANT (INCLUDING PIPE-SLEEVES, DAMMING BOARDS AND ACCESSORIES) AROUND ALL PENETRATIONS THROUGH FIRE-RATED PARTITIONS, FLOORS AND WALLS PER MANUFACTURER'S TESTED INSTALLATION FOR APPLICATION AND REQUIRED RATING.
8. ALL ELECTRICAL AND MECHANICAL DEVICES OR APPLIANCES INSTALLED ON THIS PROJECT SHALL BE UL LISTED.
9. CONTRACTOR SHALL PRESENT A WORKABLE PLAN TO MAINTAIN SECURITY AND SAFETY OF THE OWNER'S BUSINESS FOR AREAS AFFECTED BY CONSTRUCTION DURING THE ENTIRE PHASE OF CONSTRUCTION.
10. CONTRACTOR SHALL MINIMIZE DISRUPTION BY CONSTRUCTION WORK TO THE ONGOING BUSINESSES AND TRAFFIC IN THE VICINITY. CONSTRUCTION AREA SHALL BE ENCLOSED TO KEEP OTHER AREAS FREE OF DUST, DEBRIS & NOISE.
11. EMPLOYEES OR SUBCONTRACTORS OF THE GENERAL CONTRACTOR SHALL REFRAIN FROM PROFANE OR OFFENSIVE LANGUAGE WHILE ON THE PROJECT SITE AND SHALL REFRAIN FROM USING LOUD RADIOS OR OTHER MUSIC PLAYERS WHILE OWNERS AND/OR DESIGN TEAM IS ONSITE.
12. GENERAL CONTRACTOR SHALL COORDINATE APPROPRIATE PARKING ACCOMMODATIONS FOR EMPLOYEE AND SUBCONTRACTOR VEHICLES WITH OWNER PRIOR TO COMMENCEMENT OF WORK.
13. G.C. SHALL COORDINATE APPROPRIATE CONSTRUCTION STAGING AREAS AND TRASH REMOVAL. G.C. WILL BE RESPONSIBLE FOR OBTAINING A DUMPSTER AND TRASH PICKUP FROM JOB SITE ON A REGULAR BASIS.
14. SUBSTITUTIONS OF SPECIFIED PRODUCTS MAY NOT OCCUR UNLESS SPECIFICALLY NOTED ON DRAWINGS THAT "OR EQUAL" IS ACCEPTABLE. OWNER APPROVAL IS REQUIRED FOR ALL SUBSTITUTIONS CONSIDERED BY G.C. TO MEET "OR EQUAL" REQUIREMENTS PRIOR TO BID SUBMISSION/INSTALLATION.
15. APPROVAL OF SHOP DRAWINGS DOES NOT IMPLY APPROVAL OF A SUBSTITUTED COLOR, SIZE OR FUNCTION OF AN ITEM SPECIFIED ON THESE CONTRACT DOCUMENTS UNLESS ATTENTION IS SPECIFICALLY CALLED TO THE REVISION AND APPROVAL IS GIVEN.
16. G.C. SHALL KEEP TOILET FACILITIES ON SITE CLEAN AND USABLE.
17. MULTIPLE SWITCHES SHALL BE GANGED IN SINGLE BOXES WITH COVER PLATE COLORS/ DEVICES TO BE WHITE, SWITCH PLATES SHALL ALIGN.
18. GENERAL CONTRACTOR MUST BE FAMILIAR WITH EXISTING CONDITIONS TO PROPERLY ACCOUNT FOR THE NECESSARY COSTS ASSOCIATED WITH CONSTRUCTION.
19. NO CHANGE ORDERS WILL BE PERMITTED UNLESS OWNER INITIATED OR APPROVED PRIOR TO COMMENCEMENT OF THE CHANGE.
20. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
21. ANTE ROOM SHALL BE CLEAN AT ALL TIMES. WIPE DOWN CARTS IN ANTE ROOM PRIOR TO LEAVING CONTAINMENT.
22. MAINTAIN A CLEAN WORK ENVIRONMENT BY VACUUMING WITH HEPA-FILTERED VACUUMS.
23. CONTRACTOR TO MAINTAIN NEGATIVE ROOM PRESSURE OF MINIMUM -0.03 INCHES WATER GAGE RECORDED BY CONTRACTOR PROVIDED MANOMETER & EXHAUSTED BY HEPA-FILTER NEGATIVE AIR MACHINE.
24. UPON COMPLETION, CONTRACTOR TO DO FINAL CLEAN TO INCLUDE REMOVAL OF ALL DUST AND DEBRIS BY VACUUMING, MOPPING & WIPING DOWN ALL VISUAL SURFACES.

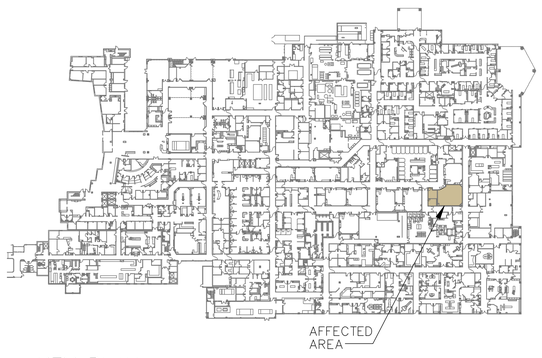
Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. 2015 IBC 105.4.

Only highlighted or clouded revisions are approved on this review. All previous comments apply.



VICINITY MAP
NTS
NORTH

POTOMAC ST.



KEY PLAN
NTS
NORTH

VENDOR LIST

LOW VOLTAGE & DATA

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ALL PRO FIRE

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CODE INFORMATION SUMMARY

PROJECT NAME: HYBRID OR 9 & GE DISCOVERY IGS INSTALLATION

PROJECT ADDRESS: 1501 S. POTOMAC STREET
AURORA, COLORADO 80012

CONSTRUCTION TYPE: 1-A

OCCUPANCY CLASSIFICATION: GROUP I-2 HOSPITAL (IBC)

AFFECTED SQUARE FOOTAGE: 1,241 S.F.

OCCUPANT LOAD FACTOR: 240 SF/OCCUPANT (INPATIENT)

OCCUPANT LOAD: 1,241 S.F./240 = 5 OCCUPANTS

FIRE PROTECTION: EXISTING BUILDING IS FULLY SPRINKLERED. AREAS AFFECTED BY THE WORK UNDER THIS CONTRACT SHALL MAINTAIN FIRE PROTECTION SYSTEM AND BE FULLY SPRINKLERED ON COMPLETION.

EXITS: 10 EXITS ON THE LEVEL 1
8'-0" WIDE EXIT ACCESS CORRIDORS

APPLICABLE CODES:
2015 INTERNATIONAL BUILDING CODE (IBC)
2015 INTERNATIONAL MECHANICAL CODE (IMC)
2015 INTERNAMTIONAL FUEL GAS CODE (IFGC)
2015 INTERNATIONAL FIRE CODE (IFC)
2015 INTERNATIONAL PLUMBING CODE (IPC)
2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2017 NATIONAL ELECTRICAL CODE (NEC)

2009 ICC/ANSI A117.1

CHAPTER 22 BUILDINGS & REGULATIONS
(AURORA BUILDING & ZONING CODES)
CHAPTER 66 FIRE PREVENTION & PROTECTION
(AURORA BUILDING & ZONING CODES)

2012 NFPA 101 LIFE SAFETY CODES

1 2009 CDPHE LICENSING REQUIREMENTS
2010 FGI GUIDELINES

CODE NOTES

A. FIRE RATED WALL ASSEMBLIES WILL BE NOT BE MODIFIED.

DRAWING INDEX

GENERAL

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G100	CONSTRUCTION NOTES
G101	CODE COMPLIANCE PLAN
G102	LEGENDS, SYMBOLS & ABBREV.
G103	SHIELDING PLAN

STRUCTURAL

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S2	FLOOR SLAB PLAN & DETAILS
S3	CEILING MOUNTED EQUIP SUPPORT PLAN & DETAILS

ARCHITECTURAL

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AD102	CEILING / EQUIP. DEMOLITION PLANS
A101	FLOOR DIM/TAG & FINISHES PLANS
A102	FLOOR EQUIPMENT PLAN
A103	REFLECTED CEILING/EQUIP PLANS
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MECH & ELECT

M000	MECHANICAL SYMBOLS & GEN NOTES
M001	MECHANICAL SPECIFICATIONS
M101	HVAC DEMO PLAN
M201	HVAC FLOOR PLAN
M300	MECHANICAL SCHEDULES & DETAILS
P0.0	PLUMBING SYMBOLS, ABBREV., & CODE INFO
P1.0	PLUMBING DEMO & FLOOR PLAN
E000	ELECTRICAL SYMBOLS & GEN NOTES
E001	ELECTRICAL SPECIFICATIONS
E002	ELECTRICAL RISER DIAGRAM
E003	ELECTRICAL DETAILS
ED101	ELECTRICAL DEMO PLAN
E100	ELECTRICAL FLOOR PLAN
E101	ELECTRICAL ENLARGED PLAN

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A2	EQUIPMENT LAYOUT
A3	MOVEMENT LAYOUT
A4	SECTION VIEWS
A5	EQUIPMENT DETAILS (1)
A6	EQUIPMENT DETAILS (2)
A7	DELIVERY
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S4	STRUCTURAL DETAILS (2)
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STRYKER COMM UNICATIONS

TITLE	COVER SHEET
R-HY 9	EQUIPMENT LAYOUT
P-1	PRE-INSTALL NOTES
P-2	PRE-INSTALL NOTES

The Medical Center of Aurora
Health ONE

HYBRID OR 9 / DISCOVERY IGS

MEDICAL CENTER OF AURORA

1501 S. POTOMAC ST.
AURORA, CO 80012

SOUTH CAMPUS

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STATE OF COLORADO
TOM THOMPSON
305692
LICENSED ARCHITECT

PROJECT NO.: 190318

DRAWN BY: TH, BEPS
CHECKED BY: TT
SCALE: N/A
DATE: 01.14.2020
ISSUED FOR: CONSTRUCTION
REVISIONS:
1 02.18.2020
2 12.11.2020
3 01.19.2021
4 02.05.2021
5 03.03.2021

SHEET TITLE:
COVER SHEET

SHEET NO.:
G.0

DWG FILENAME: HYBRID OR 9 SHEET SIZE: 36" x 24"

CONSTRUCTION NOTES

1. GENERAL NOTES:
A. THROUGH THE USE OF THESE CONSTRUCTION DOCUMENTS, CONTRACTOR ACCEPTS ALL GENERAL CONDITIONS NOTED WITHIN.
B. CONTRACTOR IS SOLELY RESPONSIBLE FOR REQUESTING ANY NECESSARY CLARIFICATIONS IN THE CONSTRUCTION DOCUMENTS, EXISTING CONDITIONS, AND/OR DESIGN INTENT PRIOR TO PROCEEDING. FAILURE TO DO SO WILL ENSURE THAT ALL COSTS FOR RECTIFICATION SHALL BE INCURRED ON THE PART OF THE CONTRACTOR.
C. CONTRACTOR SHALL ENSURE THAT ALL WORK AND MATERIALS WITHIN THE PROJECT SCOPE BE IN FULL COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS WITHIN THE GOVERNING JURISDICTION.
D. CONTRACTOR SHALL WARRANT ALL WORK FOR A PERIOD OF (1) YEAR OR THE CUSTOMARY WARRANTY FOR THE TRADE OR PRODUCT, WHICHEVER IS LONGER.
E. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SCOPE AND LIMIT OF ALL REPAIRS AND RECONDITIONING OF EXISTING MATERIALS TO REMAIN IN ORDER TO BLEND WITH NEW MATERIALS AND COMPONENTS. APPROVAL SHALL BE OBTAINED FROM THE OWNER PRIOR TO THE START OF CONSTRUCTION.
F. CONTRACTOR SHALL SUBMIT ALL REQUESTS FOR SUBSTITUTIONS IN WRITING TO THE OWNER. CONTRACTOR SHALL INCLUDE ANY ADDITIONAL PRODUCT INFORMATION. SUBSTITUTIONS SHALL NOT SACRIFICE QUALITY OR FUNCTION.
G. REFERENCES:
1) SEE ALL ENGINEERING AND/OR CONSULTANT DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
H. DIMENSIONS:
1) FIELD VERIFY ALL DIMENSIONS AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE DESIGNER. DO NOT SCALE THE DRAWINGS.
2) ALL WALLS SHOWN TO LOCATED ON A COLUMN CENTERLINE ARE CENTERED ON THE COLUMN CENTERLINE UNLESS NOTED OTHERWISE.
3) ALL PARTITIONS ENGAGING EXTERIOR AND ATRIUM WINDOW WALLS ARE CENTERED ON THE MULLION.
4) ALL PARTITIONS THAT EXTEND FROM EXISTING PARTITIONS ARE TO ALIGN WITH EXISTING CONDITIONS.
5) WHEN UN-DIMENSIONED PARTITIONS OCCUR IN CONJUNCTION WITH DOORS, THE DOOR WIDTH AND DOOR FRAME DETAILS DETERMINE THE LOCATION OF ADJACENT PARTITIONS AND FRAMES.
6) ALL VERTICAL DIMENSIONS TO BE ABOVE FINISHED FLOOR (AFF), U.N.O.
7) UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SCALE THE DRAWINGS TO DETERMINE THE DIMENSIONS. DIMENSIONS ARE SHOWN FROM FACE OF DRYWALL OR GYPSUM BOARD CONSTRUCTION, UNLESS OTHERWISE NOTED.
8) ARCHITECTURAL DIMENSIONS AND DESIGN INTENT TAKE PRECEDENCE OVER MECHANICAL, ELECTRICAL, OR PLUMBING REQUIREMENTS. NOTIFY DESIGNER OF ANY DISCREPANCY BEFORE PROCEEDING WITH CONSTRUCTION.

2. SITE COORDINATION:
A. THE GENERAL CONTRACTOR AND EACH TRADE IS RESPONSIBLE FOR REVIEWING AND COORDINATING ALL NEW WORK WITH ALL EXISTING CONDITIONS AND WITH ALL OTHER TRADES. NO FIELD WORK ORDERS WILL BE APPROVED FOR ANY CONDITIONS OR CONFLICTS THAT COULD HAVE BEEN ACCOUNTED FOR BY THE BIDDER DURING BID FIELD INSPECTION AND/OR ANY CONDITIONS OR CONFLICTS THAT COULD HAVE BEEN COORDINATED BY THE GENERAL CONTRACTOR AND EACH TRACED AFTER AWARD OF CONTRACT.
B. THE GENERAL CONTRACTOR SHALL SURVEY ALL LOCATIONS AND CONDITIONS WHERE WORK IS REQUIRED TO BE ACCESSED FROM ADJACENT TENANT OR BASE BUILDING FLOORS OR SPACES (IE., CORING FOR ELECTRICAL DEVISES OR PLUMBING, ETC.) AND COORDINATED/SCHEDULE ALL WORK WITH THE OWNER AND BUILDING MANAGEMENT.
C. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH ANY CONTRACTORS AND/OR ITEMS/WORK SUPPLIED BY THE OWNER. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
1) INCLUDING AND COORDINATING ANY OWNER'S WORK/ISSUES INTO THE PROJECT SCHEDULE.
2) ESTABLISHING CRITICAL DATES FOR DELIVERY, INSTALLATION, ETC.
3) PROVIDE/COORDINATE HOISTING, LOADING DOCK, FREIGHT ELEVATOR, AND TEMPORARY SERVICES.
4) PROVIDE/COORDINATE ANY/ALL BLOCKING, SUPPORT, BRACING, ETC. AS REQUIRED.
D. WHERE DESIGN INTENT CANNOT BE DETERMINED FROM THE CONSTRUCTION DOCUMENTS, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE DESIGNER PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.

3. FIRE PROTECTION:
I. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL FIRE PROOFING REQUIRED BY ANY/ALL CODES, LAWS OR ANY OTHER AUTHORITY HAVING JURISDICTION. FIRE PROOFING SHALL INCLUDE, BUT NOT LIMITED TO THE FOLLOWING:
1) OPENINGS BETWEEN CONNECTING FLOORS.
2) WALLS AT RAISED FLOORS OR WHERE SHOWN AND/OR REQUIRED BY CODE.
3) ALL PIPES, DUCTWORK, SUPPORTS, FRAMING, EQUIPMENT, OR CONDUIT PENETRATING A FIRE-RATED WALL OR FLOOR ASSEMBLY.
4) FIRE RATED/FULL HEIGHT PARTITIONS AT ADJOINING STRUCTURE TO HAVE FIRE STOPPING.
5) BEHIND ALL APPLIED WALL FINISHES, PANELS, MILLWORK, ETC.
~~6) IN/UNDER ALL APPLIED FLOOR FINISHED, BETWEEN WOOD FLOOR SLEERERS, ETC.~~
7) PATCHING AND/OR ADDING FIRE PROOFING INSULATION TO ALL STRUCTURAL MEMBERS AS REQUIRED FOR BOTH NEW AND EXISTING WORK. FIRE PROOFING NEEDS TO MATCH ADJACENT SYSTEMS FOR COMPRESSION & MIX DESIGN.
8) PROVIDE FIRE-RATED CAULK AS REQUIRED AT ALL FIRE-RATED PARTITIONS AS PER U.L. ASSEMBLY.
B. ALL WOOD, PLYWOOD, WOOD BLOCKING, SHIMMING, FRAMING, ETC. IS TO BE FIRE RETARDANT TREATED.
1

4. DEMOLITION:
A. SEE DEMOLITION DRAWINGS PREPARED BY MEP ENGINEERS AND/OR CONSULTANT(S) FOR ADDITIONAL INFORMATION AND REQUIREMENTS FOR DEMOLITION OF ELECTRICAL, HEATING, VENTILATING, AIR CONDITIONING PLUMBING VOICE/DATA, ETC., ITEMS AS WELL AS COORDINATION OF DEMOLITION ITEMS.
B. PRIOR TO DEMOLITION AND BEFORE SUBMISSION OF PROPOSED METHODS AND SEQUENCES OF OPERATIONS, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN FOR REFERENCE ANY EXISTING RECORD DRAWING AND TO CONDUCT ANY APPROPRIATE FIELD TESTING TO DETERMINE THE NATURE OF THE WORK TO BE REMOVED.
C. DURING DEMOLITION, ALL STRUCTURES, FURNISHINGS, FINISHES, ETC., WHICH ARE NOT TO BE REMOVED OR ARE TO BE SALVAGED, SHOULD BE CAREFULLY PROTECTED FROM DAMAGE. DAMAGE TO THE EXISTING ITEMS OR SURFACES THAT REMAIN SHALL BE REFINISHED, REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, BUILDING MANAGEMENT AND DESIGNER AT NO ADDITIONAL COST.
D. DURING REMOVAL OF ITEMS INDICATED TO BE SALVAGED, PROTECTION AND CAUTION SHALL BE USED TO ELIMINATE THE POSSIBILITY OF DAMAGE TO SUCH ITEMS. ALL SALVAGED AND/OR REUSABLE ITEMS SALVAGED DURING DEMOLITION OPERATIONS SHALL BE REMOVED AND RETAINED FOR LATER REINSTALLATION. ITEMS INSPECTED AND REJECTED BY THE OWNER OR DESIGNER SHALL BE DISPOSED BY THE GENERAL CONTRACTOR.
E. FIELD-VERIFY ALL CONDITIONS AND DIMENSIONS AND NOTIFY DESIGNER OF ANY DEVIATION BEFORE PROCEEDING WITH DEMOLITION.
F. THE GENERAL CONTRACTOR SHALL PROVIDE AS REQUIRED THE MEANS AND METHODS TO MAINTAIN APPROPRIATE VENTILATION, LIGHTING AND SAFETY, ETC. THROUGHOUT THE DEMOLITION PROCESS. GENERAL CONTRACTOR TO VERIFY/COORDINATE WITH BUILDING MANAGEMENT ALL MEANS AND METHODS.
G. ANY DEMOLITION OR REMOVAL INDICATED IS SHOWN IN GENERAL TO PROVIDE THE EXTENT OF DEMOLITION AND IS NOT TO BE CONSIDERED A RECORD DRAWING OF EXISTING CONDITIONS.
H. THE GENERAL CONTRACTOR SHALL SUBMIT A SCHEDULE OF METHODS AND OPERATIONS OF DEMOLITION FOR THE OWNER'S REVIEW FOR ALL DEMOLITION AND REMOVAL WORK. INCLUDE IN THE SCHEDULE THE COORDINATION REQUIRED WITH THE BUILDING MANAGEMENT, ALL TRADES FOR SHUTOFF, CAPPING OR REROUTING OF UTILITIES, THE CONSTRUCTION OF ANY TEMPORARY UTILITY LINES, AND PROTECTIVE MEASURES.
I. SHOULD GENERAL CONTRACTOR OR ITS SUBCONTRACTORS ENCOUNTER, EXPOSE OR IN ANY WAY BECOME AWARE OF THE PRESENCE OF HAZARDOUS OR QUESTIONABLE MATERIALS ASSOCIATED WITH THIS PROJECT, G.C. SHALL STOP WORK IN THE IMMEDIATE AREA OF DISCOVERY AND NOTIFY OWNER OF ITS FINDINGS. G.C. SHALL NOT DISTURB OR CONTINUE WORK ON OR NEAR MATERIALS IN QUESTION UNTIL RECEIVING FURTHER DIRECTION FROM OWNER.

5. SHOP DRAWINGS
A. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL CUSTOM FABRICATION AND PHYSICAL SAMPLES OF ALL SPECIFIED FINISH MATERIALS TO THE DESIGNER FOR REVIEW AND APPROVAL BY OWNER AND TENANT.
B. SUBMITTAL SHALL BE REVIEWED FOR GENERAL COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
C. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AFFECTING OR AFFECTED BY THIS SUBMITTAL. CONDITIONS TO INCLUDE: DIMENSIONS, CLEARANCES, AND QUANTITIES AND CONDITIONS OF INSTALLATION. CONTRACTOR SHALL INFORM DESIGNER OF ANY CONFLICTS PRIOR TO INITIATING SHOPS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK AND TRADES REQUIRED FOR THE SUBMITTAL.
D. DESIGNER SHALL CHECK SHOPS AND SCHEDULES FOR CONFORMANCE TO THE INFORMATION GIVEN WITHIN THE CONSTRUCTION DOCUMENTS. DESIGNER ASSUMES NO RESPONSIBILITY FOR DRAWINGS, SCHEDULES, AND/OR SPECIFICATIONS PREPARED BY OTHERS.
E. DESIGNER SHALL RETURN SUBMITTALS TO THE CONTRACTOR UPON COMPLETION OF REVIEW.

6. BUILDING STANDARDS
A. ALL COMPONENTS, MATERIALS, FINISHES AND PRODUCTS NOTED AS BUILDING STANDARD HAVE BEEN PRESELECTED OR REQUIRE OWNER APPROVAL TO INSURE THE UNIFORMITY OF ALL TENANT FINISH PROJECTS WITHIN THE BASE BUILDING. THESE INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO: WALL TYPES, CEILING GRID AND TILE, PAINT, CARPET, VINYL TILE, DOORS AND FRAMES, AND HARDWARE.
B. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THESE BUILDING STANDARDS AND USE THEM AS A BASIS FOR HIS BID.

7. PARTITIONS:
A. WHEN ACOUSTICAL INSULATION IS SPECIFIED FOR SOUND ATTENUATING PARTITIONS, ANY EXPOSED INSULATION IN A RETURN AIR PLENUM TO BE FACED WITH NON-COMBUSTIBLE MATERIAL, AS PERMITTED BY CODE.
B. ALL WALLS EXTENDING TO CEILING BUT NOT TO STRUCTURE SHALL HAVE METAL CROSS-BRACING PROVIDED AND INSTALLED BY CONTRACTOR AT 8'-0" O.C.
C. FLOOR TO STRUCTURE PARTITIONS:
1) PROVIDE AND INSTALL DRYWALL SLIP AND CONTROL JOINTS OVER ANY BUILDING EXPANSION JOINTS AS RECOMMENDED BY THE BUILDING STRUCTURAL ENGINEER.
2) PROVIDE FOR PLENUM RETURN AIR FLOW AT ANY FLOOR TO STRUCTURE PARTITION, AS REQUIRED BY THE PROJECT MECHANICAL ENGINEER.
D. FLOOR TO CEILING ACOUSTICAL PARTITIONS:
1) PROVIDE AND INSTALL NON-COMBUSTIBLE, FACED, PLENUM RATED ACOUSTICAL BATT INSULATION FOR ANY ACOUSTICAL PARTITIONS NOTED TO RECEIVE ABOVE CEILING LAY-OVER INSULATION OR ANY OTHERWISE EXPOSED ABOVE-CEILING ACOUSTICAL INSULATION.
E. WALL MOUNTED ACCESSORIES AND MILLWORK:
1) ANY BLOCKING REQUIRED FOR MILLWORK OR SUPPORT OF WALL MOUNTED ACCESSORIES SHALL BE NON-COMBUSTIBLE SOLID WOOD BLOCKING.

F. EXTERIOR WINDOW MULLION, EXTERIOR WALL PARTITION AND CONVECTOR CONNECTIONS:
1) UNLESS NOTED OTHERWISE, CENTER NEW PARTITIONS ON EXTERIOR WINDOW MULLIONS. ALL INTERIOR PARTITIONS SHALL BE CONNECTED TO EXTERIOR WINDOW MULLIONS, INCLUDING ANY GAPS BETWEEN THE WINDOW MULLION AND INTERIOR STRUCTURAL COLUMNS, WHERE PLANS SHOW AN INTERIOR PARTITION CONNECTED TO A STRUCTURAL COLUMN. ALL CONNECTIONS TO THE EXTERIOR WINDOW MULLION SHALL MATCH BUILDING STANDARD OR EXISTING PARTITION CONNECTION TO EXTERIOR WINDOW MULLIONS; HOWEVER, UNDER NO CIRCUMSTANCE, SHALL MECHANICAL CONNECTORS BE USED ON AN EXTERIOR WINDOW MULLION.
2) PROVIDE A SLIP JOINT AT ALL INTERIOR DRYWALL PARTITION CONNECTIONS TO EXTERIOR WALLS UNLESS OTHERWISE DIRECTED BY THE OWNER.
3) THE CONTRACTOR SHALL PROVIDE AN ACOUSTICAL BARRIER AT THE INTERSECTION OF THE DRYWALL PARTITION AND THE BASEBOARD HEATING OR CONVECTOR FOR INTERIOR SPACES WITH EXTERIOR WALL BASEBOARD HEATING OR UNIT CONVECTION INTERRUPTED BY DRYWALL PARTITIONS, AS APPROVED BY THE OWNER.
G. SLAB-ON-GRADE IMPROVEMENTS:
1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND PROVIDING FOR ANY SPECIAL STRUCTURAL CONDITIONS REQUIRING OR AFFECTING THE PROPOSED DESIGN OR METHODS OF CONSTRUCTION FOR THE PROJECT.
2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF BUILDING ISOLATION, EXPANSION AND CONTROL JOINTS AND FOR PROVIDING SLIP JOINTS, CONTROL AND EXPANSION JOINTS AS MAY BE REQUIRED TO ALLOW FOR FLOOR SLAB OR OTHER DIFFERENTIAL MOVEMENT WITHIN THE BASE BUILDING'S DESIGN ALLOWANCES OR CONDITIONS, AS A MINIMUM.
a. SLIP JOINTS AT THE INTERSECTION OF ANY INTERIOR PARTITIONS AND EXTERIOR PERIMETER WALLS, STRUCTURE AND OTHER BASE BUILDING ELEMENTS ON FOUNDATIONS AND NOT SUBJECT TO SOILS MOVEMENT.
b. BASE SLIP JOINTS FOR DRYWALL FURRING SHALL BE PROVIDED IN EXTERIOR PERIMETER WALLS AND OTHER BASE BUILDING ELEMENTS ON FOUNDATIONS NOT SUBJECT TO SOILS MOVEMENT, WHICH ARE ABUTTING FLOOR SLAB CONDITIONS SUBJECT TO STRUCTURAL MOVEMENT. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY REQUIRED PROVISIONS FOR FURRING AT BASE BUILDING DOORS AND WINDOW SUBJECT TO MOVEMENT DUE TO SOILS EXPANSION.
c. INTERIOR WALL EXPANSION AND/OR CONTROL JOINTS AS REQUIRED OVER SLAB OR STRUCTURAL WALL EXPANSION OR CONTROL JOINTS SUBJECT TO DIFFERENTIAL MOVEMENT.
d. INDEPENDENTLY SUSPENDED CEILING GRID EDGE ANGLES AT ANY CONDITIONS, WHERE CEILING ABUTS INTERIOR PARTITIONS SUBJECT TO SOILS MOVEMENT. SIMILAR FOR SUSPENDED DRYWALL SOFFITS, FASCIAL AND CEILINGS.
e. CONTROL OR EXPANSION JOINTS AT ANY INTERSECTIONS OF PARTITIONS AND SUSPENDED FROM STRUCTURE ABOVE. ANY DRYWALL SOFFITS AND FASCIAS SHALL BE INDEPENDENTLY SUSPENDED FROM THE STRUCTURE ABOVE AND EXTEND 6" MINIMUM ABOVE ANY ABUTTING SUSPENDED CEILING TREATMENTS.
f. PROVIDE AND INSTALL CONTROL JOINTS ON BOTH SIDES OF DOOR JAMBS IN ALL INTERIOR PARTITIONS. EXCEPT AS OTHERWISE APPROVED IN WRITING, ALL DOOR FRAMES FOR SLAB ON GRADE CONSTRUCTION SHALL BE RIGID HOLLOW METAL.
H. DRYWALL CEILING, FASCIAS AND SOFFITS:
1) EXCEPT AS OTHERWISE NOTED, DRYWALL CEILINGS, FASCIAS AND SOFFITS SHALL BE 5/8" DRYWALL FRAMED OR SUSPENDED AND INSTALLED AS RECOMMENDED BY THE DRYWALL MANUFACTURER FOR SPECIFIC APPLICATION.
I. DRYWALL PREPARATION AND FINISH:
1) TAPE ALL DRYWALL JOINTS AND INTERIOR CORNERS, UNLESS OTHERWISE NOTED. TAPE SHALL BE AS RECOMMENDED BY DRYWALL MANUFACTURER AND EMBEDDED IN DRYWALL MANUFACTURER'S RECOMMENDED JOINT COMPOUND AND WIPED WITH A JOINT KNIFE, LEAVING A THIN COAT OF COMPOUND OVER THE TAPE. PROVIDE AND INSTALL BEADED METAL TRIM, AS RECOMMENDED BY THE DRYWALL MANUFACTURER AT ALL CORNERS AND DRYWALL TERMINATIONS.
2) ALL DRYWALL ACCESSORIES AND/OR FASTENERS SHALL BE COVERED BY THREE (3) SEPARATE COATS OF JOINT COMPOUND. JOINT COMPOUND SHALL BE FINISHED SMOOTH AND FREE OF TOOL MARKS, RIDGES OR OTHER IRREGULARITIES.
3) PREPARE AND APPLY TO DRYWALL SURFACES WITH AND APPROVED DRYWALL PRIMER PRIOR TO APPLICATION OF THE SPECIFIED FINAL WALL FINISH.

8. DOORS:
A. DOORS SHALL CONFORM TO AWI CUSTOM GRADE STANDARDS AND BE FREE FROM SCRATCHES OR IRREGULARITIES. DOORS TO BE SOLID CORE FLUSH WOOD FACE MATERIAL CONSTRUCTION WITH SUITE STANDARD FINISH, U.N.O.
B. FRAMES TO MATCH SUITE STANDARD, U.N.O. FRAMES SHALL BE FREE FROM SCRATCHES OR IRREGULARITIES.
C. ALL DOORS AND FRAMES SHALL BE INSTALLED PER MANUFACTURER INSTRUCTIONS AND SHALL BE PLUMBED, ALIGNED, AND SECURED PERMANENTLY WITHIN THE OPENING. CONTRACTOR SHALL REPLACE ANY DOORS, FRAMES, OT TRIM DAMAGED BEYOND SATISFACTORY TOUCH UP AT NO COST TO THE OWNER.
D. ALL ADJACENT RE-USED AND NEW DOORS TO MATCH IN FINISHED APPEARANCE.
E. PARTITIONS OVER DOORS SHALL BE CONTINUOUS AND THE SAME AS ADJACENT WALLS WHERE DRYWALL CONTINUES TO STRUCTURE ABOVE, OR ABOVE CEILING, TYPICAL UNLESS NOTED OTHERWISE.
F. UNLESS NOTED OTHERWISE, ALL HINGE SIDES DOOR FRAMES ADJACENT TO A PERPENDICULAR PARTITION AND/OR ANGLED PARTITION ARE TO BE 4" FROM OUTSIDE EDGE OF DOOR FRAME TO FINISH FACE OF THE PARTITION OR TO MATCH EXISTING CONDITIONS.

9. HARDWARE
A. ADA COMPLIANT LEVER STYLE HARDWARE SETS AND DELAYED ACTION CLOSERS TO BE APPROVED AT ALL DOORS TO OR FROM PUBLIC AREAS.
B. HARDWARE SCHEDULE SHALL BE PREPARED AND PROVIDED BY HARDWARE SUPPLIER. SCHEDULE TO INCLUDE TEMPLATES FOR ALL DOOR AND FRAME PENETRATIONS. SUBSTITUTION REQUESTS SHALL BE ACCOMPANIED BY CUT SHEETS.
C. HARDWARE FINISH TO BE BUILDING OR SUITE STANDARD, U.N.O. DOOR CLOSERS TO MATCH EXISTING. WEATHER/SOUND STRIPPING AND/OR SMOKE SEALS SHALL BE FULL HEIGHT OF BOTH JAMBS AND FULL WIDTH OF HEAD.
D. HARDWARE MANUFACTURER'S REPRESENTATIVE SHALL INSPECT AND ADJUST ALL DOOR CLOSERS, LOCKS, AND ALL ITEMS REQUIRING ADJUSTMENT PRIOR TO FINAL INSPECTION. ALL KEYING TO BE BY OWNER.
E. GENERAL CONTRACTOR TO COORDINATE ANY/ALL HARDWARE REQUIRING ELECTRICAL POWER (BOTH HIGH AND LOW VOLTAGE) WITH HARDWARE SUPPLIER/MANUFACTURER, INSTALLER, MILLWORKER, ELECTRICAL AND SECURITY CONTRACTORS.

10. GLAZING:
A. ALL INTERIOR GLASS TO BE 1/4" THICK, CLEAR FLOAT GLASS, CLEAN AND FREE FROM SCRATCHED AND IRREGULARITIES, UNLESS NOTED OTHERWISE, REQUIRED BY CODE, OR RECOMMENDED BY MANUFACTURER FOR THE INDICATED APPLICATION.
B. CLEAR FLOAT GLASS TO BE TYPE I, CLASS I; FIRE RATED GLASS SHALL BE TYPE II, CLASS I; LAMINATED SAFETY GLASS SHALL BE (2) LAYERS OF GLASS COMPLIANT WITH CURRENT ANSI SPECIFICATIONS.
C. FIELD MEASURE ALL FRAME OPENINGS PRIOR TO FABRICATION AND SUPPLY GLASS AS REQUIRED FOR OPENINGS PROVIDED. PROVIDE EDGE CLEARANCES AND TOLERANCES AS RECOMMENDED BY MANUFACTURER.
D. EXPOSED BUTT JOINTS NOT EXCEED 1/8" WITH FLAT GROUND AND POLISHED EXPOSED EDGES. DO NOT INSTALL WITH EDGE DAMAGE OR DEFECTS.
E. RAZOR TRIM AND ENSURE THAT ALL EXPOSED SEALANT IS CLEAR AND FREE OF ALL BUBBLES AND IRREGULARITIES. ALL ADDITIONAL PRODUCTS INCLUDING SPACERS, SETTING BLOCKS, AND SEALANT SHALL BE COMPATIBLE WITH ALL ADJACENT SURFACES THAT ARE IN CONTACT WITH SEALANT. REJECTION OF WORK AND INSTALLATION SHALL OCCUR DUE TO ANY SCRATCHING OF GLASS THROUGH NON-COMPLIANCE. ALL COMPONENTS TO BE AS RECOMMENDED BY MANUFACTURER FOR THE INDICATED APPLICATION.
F. ALL FRAMING MEMBERS TO RECEIVE GLASS INCLUDING CHANNELS SHALL BE CLEANED IMMEDIATELY PRIOR TO RECEIVING GLAZING. CONTRACTOR TO PROTECT GLASS FROM CONTACT WITH CONTAMINATING SUBSTANCES DUE TO CONSTRUCTION, REMOVE ANY CONTAMINANTS BY APPROVED METHODS FROM THE GLASS MANUFACTURER, AND VERIFY THAT NEW MATCHES EXISTING.

11. MILLWORK:
A. MILLWORK SHALL BE AWI CUSTOM GRADE FLUSH CONSTRUCTION, U.N.O.
B. SOLID BLOCKING SHALL BE PROVIDED IN PARTITIONS BEHIND ALL WALL MOUNTED MILLWORK, SHELVING, CABINETS, AND WALL STOPS WHERE UNABLE TO ATTACH DIRECTLY TO STUDS.
C. SHOP DRAWINGS SHALL BE PROVIDED BY CONTRACTOR AND SHALL SHOW THE LOCATION AND FIELD VERIFIED DIMENSIONS OF EACH ITEM IN PLAN AND ELEVATION WITH LARGE SCALE SECTIONS AND DETAILS WITH THE LOCATIONS OF INTERNAL AND FIELD JOINTS, ATTACHMENT DEVICES, PLASTIC LAMINATE OR VENEER JOINTS, AND ANY COMPONENTS AND/OR HARDWARE AS REQUESTED BY OWNER. OWNER SHALL REVIEW SHOP DRAWINGS FOR SIZE AND CONFIGURATION OF MILLWORK. DESIGNER SHALL REVIEW SHOPS FOR CONFORMITY WITH CONSTRUCTION DOCUMENTS. CONTRACTOR ASSUMES ALL RISK ASSOCIATED WITH FABRICATION DONE PRIOR TO SHOP DRAWING APPROVAL.
D. OWNER REQUESTED SAMPLES OF SPECIFIED STAIN, FINISH, HARDWARE, AND TYPICAL DETAIL TREATMENTS SHALL BE PROVIDED BY CONTRACTOR PRIOR TO FABRICATION.
E. FIELD VERIFICATION AND REVIEW OF CONTRACT DOCUMENTS FOR ALL PROPOSED AND EXISTING CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. TO INCLUDE APPLICABLE DIMENSIONS AND CLEARANCES ASSOCIATED WITH MILLWORK INSTALLATION. CONTRACTOR SHALL ADVISE THE DESIGNER OF ANY DISCREPANCIES, CONFLICTS, OR OMISSIONS PRIOR TO FABRICATION.
F. PROVIDE GROMMET HOLES WITH COVER PLATE WHERE INDICATED ON DRAWINGS. EXACT LOCATIONS TO BE SHOWN/NOTED ON MILLWORK SHOP DRAWINGS U.O.N.
G. GENERAL CONTRACTOR TO COORDINATE LOCATIONS OF ELECTRICAL AND VOICE/DATA DEVICES, PLUMBING, ETC., MOUNTED WITHIN AND/OR ON MILLWORK WITH ELECTRICAL, PLUMBING, AND MILLWORK CONTRACTORS.
H. PROVIDE FINISHED SCRIBE STRIPS AND FINISHED MILLWORK EDGES TO CREATE A FINISHED REVEAL CONDITION WHERE MILLWORK COUNTERS, CABINETS, ETC/ ABUT ADJACENT CONSTRUCTION, TYPICAL UNLESS NOTED OTHERWISE. ALL EXPOSED REVEAL SURFACES AND EDGES TO HAVE MATCHING COLOR AND FINISH.

12. CEILING:
A. SEE ENGINEERING AND/OR CONSULTANT(S) DRAWINGS FOR QUANTITY AND LOCATION OF ALL EXIT AND EMERGENCY LIGHTS, THERMOSTATS, SPRINKLER HEADS, LIFE SAFETY SPEAKERS, AND DIFFUSER GRILLES, TYPICAL UNLESS NOTED OTHERWISE.
B. CONTRACTOR SHALL INSTALL ALL NEW GRID AND TILE PLUMB PER MANUFACTURER'S RECOMMENDATION.
C. CONTRACTOR SHALL REPLACE OR REPAIR ANY DAMAGED, DISCOLORED, SCUFFED, SOILED, OR UNMATCHING TILES IN CONTIGUOUS AREAS. CONTRACTOR SHALL GROUP EXISTING MATCHING TILES IN ADJACENT AREAS AS DIRECTED BY OWNER. CONTRACTOR SHALL CUT TILES OVER CENTERS OF PARTITIONS AS REQUIRED TO PRODUCE UNIFORMITY WITHIN ROOMS.
D. CONTRACTOR SHALL REPLACE EXISTING DAMAGED GRID, TO INCLUDE SCREW HOLES AND/OR IRREGULARITIES, WHERE GRID IS TO REMAIN.
E. ALL MATERIALS ABOVE CEILING MUST BE NON-COMBUSTIBLE. LOOSE OR UN-FACED INSULATION SHALL NOT BE INSTALLED IN THE RETURN AIR PLENUM.
F. CONTRACTOR SHALL HAVE MECHANICAL AND ELECTRICAL SUBCONTRACTORS SURVEY EXISTING CONDITIONS AND PROVIDE BIDS ON ANY MODIFICATIONS TO EXISTING SYSTEMS WHICH ARE NECESSARY TO ACCOMMODATE PROPOSED WORK.
G. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED CONDUITS, PULL BOXES, HOME RUNS, WALL JUNCTION BOXES, PLASTER RINGS, ETC. FOR INSTALLATION OF ALL VOICE/DATE DEVICES, CABLES, SECURITY DEVICES, ETC., TYP. UNLESS NOTED OTHERWISE. GENERAL CONTRACTOR TO COORDINATE.
H. CONTRACTOR SHALL PROVIDE FIRE PROTECTION SPRINKLER PLANS AS REQUIRED. PLANS SHALL BE PREPARED BY A QUALIFIED ENGINEER FOR APPROVAL BY OWNER.
I. ALL LIGHT FIXTURES, LIFE SAFETY DEVICES AND SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF A CEILING TILE IN BOTH DIRECTIONS AND SHALL ALSO ALIGN WITH ADJACENT FIXTURES, DEVICES OR HEADS IN A RUN OR ROW, TYPICAL UNLESS NOTED OTHERWISE.
J. THERE SHALL BE NO LIGHT FIXTURE SUBSTITUTIONS WITHOUT WRITTEN APPROVAL BY DESIGNER AND/OR ELECTRICAL ENGINEER.
K. ALL EXIT LIGHTS/SIGNS TO MATCH BASE BUILDING UNLESS NOTED OTHERWISE.
L. ALL DIMENSIONS INDICATING LIGHT SWITCH AND/OR ANY OTHER DEVICE LOCATIONS ARE TO THE CENTER LINE OF SWITCHES AND/OR DEVICES, UNLESS NOTED OTHERWISE.
M. IF ALLOWED BY CODE, LAW, ETC., PROVIDE ALL LIFE SAFETY DEVICES, SPRINKLER HEADS, ETC. WITH COLOR AND FINISH TO MATCH ADJACENT CONSTRUCTION COLOR AND FINISH.

ELECTRICAL:
A. ALL ELECTRICAL LIGHTING, OUTLETS, DEVICES AND OTHER EQUIPMENT ARE SHOWN FOR LOCATION PURPOSES ONLY. REFER TO ENGINEERING DOCUMENTS FOR TECHNICAL SPECIFICATIONS AND/OR FOR SCOPE/PERFORMANCE SPECIFICATIONS.
B. VERIFY WITH THE DESIGNER THE LOCATION OF REMOTE POWER PANELS, DISCONNECT SWITCHES, SPECIAL PANELS, DISCONNECT SWITCHES, ALARMS OR ANY DEVICE EXPOSED TO VIEW AND NOT SHOWN ON THE ARCHITECTURAL DRAWINGS. INSTALLER TO SUBMIT CATALOGUE CUT OF SAME TO THE DESIGNER FOR DESIGN APPROVAL ONLY.
C. GENERAL CONTRACTOR TO COORDINATE LOCATIONS OF FLOOR PENETRATIONS WITH LAYOUT OF WALL PARTITIONS. ALL CORING LOCATIONS TO BE APPROVED BY THE OWNER, BUILDING ARCHITECT AND BUILDING STRUCTURAL ENGINEER. ALL PLUMBING, SYSTEMS FURNITURE AND FLOOR MONUMENT CORING LOCATIONS TO BE CHALK MARKED AND REVIEWED WITH THE DESIGNER BEFORE CORING. SHOULD ANY CORE INTERFERE WITH EXISTING BUILDING STRUCTURAL, ELECTRICAL, HVAC OR SPRINKLER LINE LOCATIONS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DESIGNER IMMEDIATELY SO THAT THE CORE CAN BE APPROPRIATELY RELOCATED.
D. DEVICES MOUNTED IN WALLS SHALL NOT BE INSTALLED BACK TO BACK BUT INSTEAD SHOULD BE STAGGERED BACK TO BACK. BACK AND SIDES OF ALL OUTLET ROUGH-IN BOXES SHALL BE SEALED WITH ACOUSTICAL SEALANT.
E. GENERAL CONTRACTOR TO COORDINATE LOCATIONS OF ELECTRICAL AND TELEPHONE OUTLETS MOUNTED ABOVE MILLWORK COUNTERS AND WITHIN MILLWORK CABINETS WITH MILLWORK CONTRACTOR.
F. GENERAL CONTRACTOR TO COORDINATE LOCATION OF WHIPS AND JUNCTION BOXES FOR ELECTRICAL SERVICE AT MILLWORK FOR TASK LIGHT FIXTURES, EQUIPMENT, DEVICES, ETC. WITH ALL OTHER TRADES, TYPICAL. WHIPS MUST NOT BE EXPOSED TO VIEW OR HANG BELOW MILLWORK, ETC.
G. ALL DEVICES AND/OR SWITCHES ARE TO BE GANGED WITH A SINGLE DEVICE AND/OR SWITCH COVER PLATE WITH ENGRAVED TEXT AS SELECTED BY DESIGNER, TYPICAL UNLESS NOTED OTHERWISE. GENERAL CONTRACTOR TO SUBMIT SHOP DRAWINGS INDICATING TEXT, SIZE, LOCATION, ETC., FOR DESIGNER'S REVIEW.
H. FOR GANGED SWITCHES AND COVER PLATES, BUTT DIMMERS AND SWITCHED TOGETHER WITHIN SAME GANG BOX, TYPICAL UNLESS REQUIRED TO BE SEPARATE BOX (EG., LOW VERSUS HIGH VOLTAGE); HOWEVER, IF A HANG OF SWITCHES REQUIRE SEPARATE BOXES, INSTALL BOXES AS TIGHT AS POSSIBLE AND PROVIDE ONE SINGLE GANGED COVER PLATE WITH ENGRAVED TEXT.
I. PROVIDE ISOLATED GROUND ("IG") RECEPTACLES (ORANGE IN COLOR) FOR ALL COMPUTER GRADE CIRCUITS AND/OR FOR TYPICAL COMPUTER EQUIPMENT AS SHOWN - SEE OUTLET LOCATION PLAN, AND ENGINEERING AND CONSULTANT DRAWINGS FOR ADDITIONAL INFORMATION, TYPICAL.
J. UNLESS NOTED OTHERWISE, FINISH OF RECEPTACLES FOR WALL MOUNTED SWITCHES, RECEPTACLES, DIMMERS, VOICE/DATA DEVICES, THERMOSTATS AND ANY OTHER DEVICE TO BE WHITE.
K. ELECTRICAL CONTRACTOR TO VERIFY WITH EACH MANUFACTURER OF EQUIPMENT FOR ALL SPECIAL REQUIREMENTS (IE., PROVIDING AND INSTALLING SPECIAL RECEPTACLES, ATTACHING END CONNECTORS ON CABLES OR CABLES TO MACHINES, ETC...) IF NOT SPECIFICALLY EXCLUDED FROM CONTRACT AGREEMENT, ALL CONNECTIONS SHALL BE CONSIDERED TO BE INCLUDED IN THE WORK OF THE ELECTRICAL CONTRACTOR. (RE: ELECTRICAL ENGINEERING PLANS FOR EQUIPMENT SCHEDULE)
L. SHOULD DISCREPANCIES IN EQUIPMENT INFORMATION OCCUR, NOTIFY DESIGNER AND CONSULT MANUFACTURER'S INFORMATION.

1. PLUMBING:
A. GENERAL CONTRACTOR TO COORDINATE ALL PLUMBING FIXTURES INCLUDING THEIR INSTALLATION WITH ALL OTHER TRADES, (IE., WITH MILLWORKER FOR CUTOUTS OF SINKS, HOT WATER HEATERS, ETC. IN MILLWORK; ELECTRICAL CONTRACTOR FOR PLUMBING FIXTURES REQUIRING POWER; DRYWALL CONTRACTOR FOR SUPPORTS, BLOCKING, ETC...)
B. CONTRACTOR IS TO CONFIRM THAT ALL NEW SINKS ARE TO BE 18 GUAGE STAINLESS STEEL, UNLESS NOTED OTHERWISE.
C. CONTRACTOR IS TO CONFIRM THAT ALL NEW SINKS, LAVATORIES, TOILETS, HARDWARE, AND ACCESSORIES ARE COMPLIANT ADA REQUIREMENTS, UNLESS NOTED OTHERWISE.
D. CONTRACTOR SHALL CONFIRM THAT ALL APPLIANCES NOTED IN DRAWINGS FIT IN THE SPACE ALLOCATED PRIOR TO ORDERING OR INSTALLATION.

1. SPECIAL CONSTRUCTION:
A. GENERAL CONTRACTOR TO COORDINATE CARD KEY ACCESS CONTROL SYSTEMS WITH DOOR HARDWARE, ELECTRICAL CONTRACTOR AND ALL OTHER TRADES, CONSTRUCTION OR CONSULTANTS.
B. ALL DATA CABLING, TELEPHONE CABLING, JACKS, TERMINATIONS AND RECEPTACLES TO BE PROVIDED AND INSTALLED BY CABLE INSTALLER. ELECTRICAL CONTRACTOR TO PROVIDE ALL ROUGH-IN AND CONDUIT RUNS FOR CABLING, TYPICAL UNLESS NOTED OTHERWISE.
C. FOR VOICE/DATA POWER REQUIREMENTS IN VOICE/DATA CLOSETS, SEE TELECOMMUNICATION CONSULTANT AND/OR ELECTRICAL ENGINEERING DRAWINGS.

1. FINISHES:
A. CARPET:
1) CARPET INSTALLATION TO BE DIRECT GLUE, U.N.O. AND SHALL COMPLY WITH MANUFACTURER'S GUIDELINES.
2) SUBSTRATE SHALL BE SMOOTH AND FLAT. ALL SUBFLOOR RIDGES AND BUMPS SHALL BE REMOVED. ALL LOW SPOTS, CRACKS, JOINTS, HOLES AND OTHER DEFECTS SHALL BE FILLED TO ACHIEVE SMOOTHNESS.
3) INSTALLER SHALL SUBMIT A SEAMING DIAGRAM FOR APPROVAL TO AVOID REJECTION OF WORK.
4) INSTALLER SHALL LAY OUT CARPET ROLLS TO ENSURE MINIMAL DYE LOT VARIATION PRIOR TO CUTTING. DOUBLE CUT CARPET TO ALLOW SEAM PATTERN TO MATCH. CUTS SHALL BE STRAIGHT AND UNFRAYED. CARPET PILE SHALL LAY IN THE SAME DIRECTION OF ANTICIPATED TRAFFIC. CARPET PILE DIRECTION SHALL NOT CHANGE WHERE CARPET IS CONTINUOUS THROUGH AN OPENING INTO ANOTHER ROOM. CHANGE OF COLOR OR PATTERN BETWEEN ROOMS SHALL BE LOCATED UNDER DOOR CENTERLINE.
5) CARPET SEAMS SHALL BE IN LOW TRAFFIC AREAS. SEAMS LOCATED AT DOOR OPENINGS SHALL BE CENTERED UNDER THE DOOR. SEAMS SHALL FIT STRAIGHT WITHOUT ANY CROWDING, PEAKING, OR GAPS. CUT AND FIT CARPET AROUND INTERRUPTIONS. CARPET TO FIT TIGHTLY TO INTERSECTIONS WITH VERTICAL ELEMENTS WITHOUT GAPS, PEAKS, OR CROWDING.
6) ALL EXCESS ADHESIVE SHALL BE REMOVED FROM FLOOR, BASE, AND WALL SURFACES WITHOUT DAMAGE. CARPET SHALL BE CLEAN AND VACUUMED. TRAFFIC SHALL BE PROHIBITED IN CARPETED AREAS FOR 24 HOURS AFTER INSTALLATION.

B. VINYL COMPOSITION TILE:
1) INSTALLER SHALL ENSURE SURFACE PREPARATION AND ADHESIVE ARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2) SUBFLOOR SHALL BE SMOOTH, SOUND, FIRM, AND FREE FROM SPRINGINESS AND ALL IRREGULARITIES. CONCRETE SUBFLOORS SHALL BE CLEAN AND FREE FROM ALL FLOOR COVERINGS AND OTHER SURFACE TREATMENTS, TO INCLUDE PAINT. FLOORING CONTRACTOR SHALL APPROVE SUBFLOOR PRIOR TO INSTALLATION.
3) TILE FLOORING SHALL BE CENTERED FROM PRINCIPAL WALLS, ADJUST TO AVOID CUT TILES OF LESS THAN 1/2 TILE AT PERIMETER. TILES SHALL MATCH IN COLOR AND PATTERN THROUGH THE USE OF MANUFACTURED PACKAGING SEQUENCE. LAY TILE PER MANUFACTURER'S RECOMMENDATION.
4) CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE FOR (1) YEAR FROM THE DATE OF COMPLETION. GUARANTEE SHALL ENSURE THAT ALL WORK IN THIS SECTION SHALL BE FREE FROM DEFECTS IN BOTH MATERIALS AND WORKMANSHIP. CONTRACTOR SHALL REMOVE AND REPLACE ALL FIXTURES AND EQUIPMENT ATTACHED TO THE DEFECTIVE WHEN NOTIFIED IN WRITING BY THE OWNER OF ANY SUCH DEFECTS.
5) OWNER SHALL BE RESPONSIBLE FOR USING PROPER FLOOR PROTECTION DEVICES ON ALL FURNITURE AND EQUIPMENT.

C. CERAMIC/STONE FLOOR TILE:
1) INSTALLER SHALL ENSURE SURFACE PREPARATION AND ADHESIVE ARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2) SUBFLOOR SHALL BE SMOOTH, SOUND, FIRM, AND FREE FROM ALL IRREGULARITIES. CONCRETE SUBFLOORS SHALL BE CLEAN AND FREE FROM ALL FLOOR COVERINGS AND OTHER SURFACE TREATMENTS, TO INCLUDE PAINT. FLOORING CONTRACTOR SHALL APPROVE SUBFLOOR PRIOR TO INSTALLATION.
3) TILE FLOORING SHALL BE CENTERED FROM PRINCIPAL WALLS, ADJUST TO AVOID CUT TILES OF LESS THAN 1/2 TILE AT PERIMETER. TILES SHALL MATCH IN COLOR AND PATTERN THROUGH THE USE OF MANUFACTURED PACKAGING SEQUENCE. LAY TILE PER MANUFACTURER'S RECOMMENDATION.
4) CONTRACTOR SHALL PRIVDE AND INSTALL A CRACK SUPPRESSION MEMBRANE AS REQUIRED AT ALL SLAB ON GRADE OR POUR BACK AREAS TO PREVENT CRACKING DUE TO SLAB MOVEMENT.

D. RUBBER BASE:
1) INSTALLER SHALL ENSURE SURFACE PREPARATION AND ADHESIVE ARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2) SUBSTRATE SHALL BE SMOOTH, SOUND, FIRM, AND FREE FROM ALL IRREGULARITIES. SUBSTRATE SHALL BE CLEAN AND FREE FROM ALL SURFACE TREATMENTS, TO INCLUDE PAINT. FLOORING CONTRACTOR SHALL APPROVE SUBSTRATE PRIOR TO INSTALLATION.
3) RUBBER BASE IS TO HAVE A STRAIGHT PROFILE AT CARPET AND COVE PROFILE AT VINYL FLOORING, U.N.O.

E. CERAMIC/STONE WALL TILE:
1) TILE SHALL BE CENTERED BETWEEN FLOOR AND CEILING, ADJUST TO AVOID CUT TILES OF LESS THAN 1/2 TILE AT PERIMETER. TILES SHALL MATCH IN COLOR AND PATTERN THROUGH THE USE OF MANUFACTURED PACKAGING SEQUENCE. LAY TILE PER MANUFACTURER'S RECOMMENDATION.

F. PAINT:
1) CONTRACTOR SHALL ADVISE THE OWNER OF ANY QUESTIONS IN REGARDS TO THE PAINT SELECTIONS, SYSTEM, APPLICATION, OR SCOPE OF WORK PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
2) CONTRACTOR SHALL INSPECT ALL SURFACES TO RECEIVE PAINT FOR IRREGULARITIES OR ANY OTHER PROBLEMS THAT WOULD INHIBIT A SMOOTH, EVEN SURFACE. ALL IRREGULARITIES SHALL BE SANDED OUT OR OTHERWISE CORRECTED PRIOR TO PRIMING AND PAINTING. FINISHED APPLICATION AND WALL SHALL BE FREE OF SURFACE AND COLOR IRREGULARITIES.
3) PAINT SHALL BE ROLLER APPLIED TO NON- METALLIC SURFACES. ROLLER SHALL BE SHORT NAP, 3/8" OR LESS, AND LINT FREE, U.N.O.
4) PAINT APPLICATION FOR ALL NEW PARTITION SURFACES SHALL BE A (3) COAT SYSTEM MINIMUM ENSURING THE USE OF SEALER, PRIMER, AND FINISH COAT. EXISTING PAINTED SURFACES SHALL BE PROPERLY CLEANED AND PREPARED AND SHALL USE A (2) COAT SYSTEM OF PRIMER AND FINISH COAT TO MATCH AND BLEND WITH NEW PARTITIONS.
5) ALL PAINTING TO BE PER MANUFACTURER RECOMMENDATIONS.
6) CONTRACTOR SHALL SUBMIT A 12"X12" SAMPLE OF EACH SPECIFIED PAINT FOR APPROVAL BY OWNER. SAMPLE SHALL EMPLOY THE SAME PAINT SYSTEM AS REQUIRED ABOVE.
7) ALL TRANSITIONS BETWEEN ACCENT AND BASE PAINT SHALL BE STRAIGHT AND WITHOUT IRREGULARITIES.
8) PROVIDE FINISH PAINT AT ALL WALL AREAS THAT ARE EXPOSED BEHIND ANY APPLIED MILLWORK, PANELS, ETC. DUE TO REVEALS, JOINTS, END CONDITIONS, ETC.

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

The Medical Center of Aurora
Health ONE

HYBRID OR 9 / DISCOVERY IGS

MEDICAL CENTER OF AURORA

1501 S. POTOMAC ST.
AURORA, CO 80012

SOUTH CAMPUS

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STATE OF COLORADO
TOM THOMPSON
305692
LICENSED ARCHITECT

PROJECT NO.:	190318
DRAWN BY:	TH, BEPS
CHECKED BY:	TT
SCALE:	N/A
DATE:	01.14.2020
ISSUED FOR:	CONSTRUCTION
REVISIONS:	
1	02.18.2020

SHEET TITLE:
CONSTRUCTION NOTES

SHEET NO.:
G100

DWG FILENAME: HYBRID OR 9 SHEET SIZE: 36" x 24"

1ST FLOOR

AFFECTED SQUARE FOOTAGE: 1,241 S.F.

OCCUPANT LOAD FACTOR: 240 SF/OCCUPANT (INPATIENT)

OCCUPANT LOAD: 1,241 S.F./240 = 5 OCCUPANTS

FIRE PROTECTION: EXISTING BUILDING IS FULLY SPRINKLERED. AREAS AFFECTED BY THE WORK UNDER THIS CONTRACT SHALL MAINTAIN FIRE PROTECTION SYSTEM AND BE FULLY SPRINKLERED ON COMPLETION.

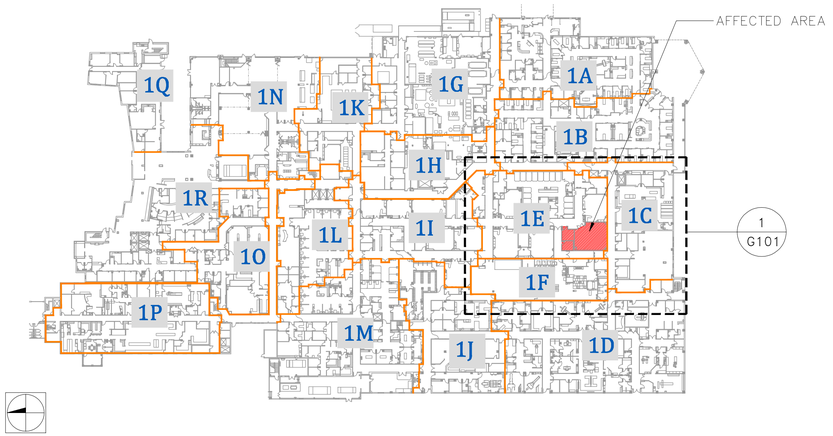
EXITS: 10 EXITS ON THE FIRST LEVEL
8'-0" WIDE EXIT ACCESS CORRIDORS

FIRE RATED WALL ASSEMBLIES WILL BE NOT BE MODIFIED.

CODE INFORMATION SUMMARY

CONSTRUCTION TYPE:	I-A TYPE IBC / I(332) NFPA STEEL STRUCTURE WITH SPRAY FIRE-PROOFING AND CONCRETE STRUCTURE FIVE STORY BUILDING
OCCUPANCY CLASSIFICATION:	IBC - GROUP I-2 HOSPITAL NFPA - HEALTHCARE OCCUPANCY
FULLY SPRINKLED	

SMOKE COMPARTMENT - KEY PLAN



SMOKE COMPARTMENT - KEY PLAN AREAS

1A	11,964 SQ FT	1G	13,464 SQ FT	1M	17,640 SQ FT
1B	13,178 SQ FT	1H	8,719 SQ FT	1N	13,572 SQ FT
1C	10,250 SQ FT	1I	8,334 SQ FT	1O	8,457 SQ FT
1D	19,537 SQ FT	1J	12,003 SQ FT	1P	12,476 SQ FT
1E	12,575 SQ FT	1K	7,434 SQ FT	1Q	3,933 SQ FT
1F	8,732 SQ FT	1L	8,836 SQ FT	1R	16,810 SQ FT

LEGEND

- SMOKE PARTITION
- 1 HOUR SMOKE BARRIER FOR COMPARTMENTATION
- 1 HOUR FIRE BARRIER
- 1 HOUR FIRE/SMOKE BARRIER
- 2 HOUR FIRE BARRIER
- 2 HOUR FIRE/SMOKE BARRIER
- SMOKE COMPARTMENT DESIGNATION
- PULL STATION
- EXIT SIGN
- FIRE EXTINGUISHER
- NON-SLEEPING SUITE
- SUITE BOUNDARY SEPARATION
- CHUTES & SHAFTS
- EXIT PASSAGEWAY
- UNOBSTRUCTED COURSE & DISTANCE TRAVEL OF THE MOST REMOTE LOCATION TO THE NEAREST AREA OF REFUGE - 90'-2"
  TO A NEAREST EXIT - 109'-6".

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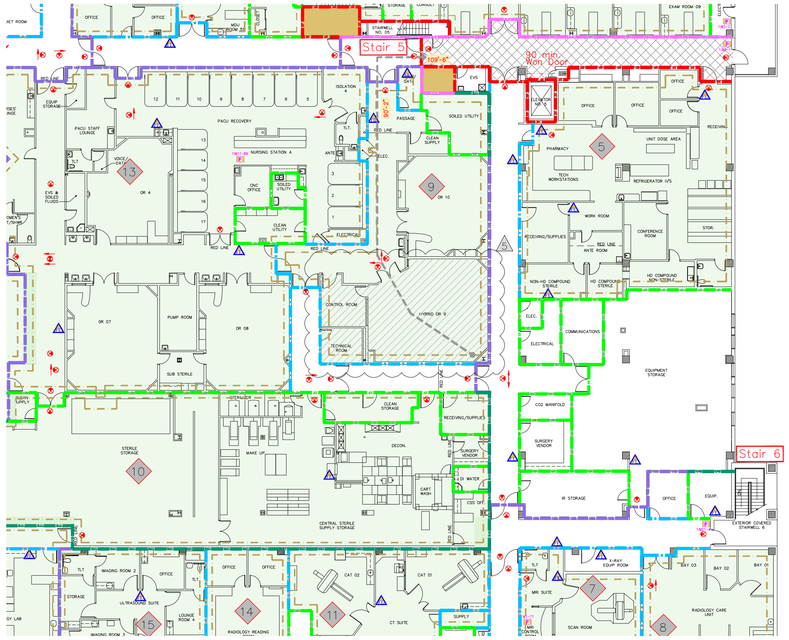
LIFE SAFETY GENERAL NOTES:

A. FIRE ALARM VENDOR TO PROVIDE SMOKE DETECTION WITH TOTAL COVERAGE (COMPLETE) AUTOMATIC SMOKE DETECTION SYSTEM.
B. HVAC SYSTEM WILL BE ISOLATED TO PREVENT CONTAMINATION OF DUCT SYSTEM DURING CONSTRUCTION.
C. NO EGRESS PATHWAY WILL BE OBSTRUCTED DURING CONSTRUCTION.
D. NO ADJACENT TENANT SPACES WILL BE AFFECTED DURING THE COURSE OF CONSTRUCTION.
E. CONTRACTOR TO PERFORM FIRE WATCH THROUGHOUT THE COURSE OF CONSTRUCTION.
F. A CONTRACTOR PROVIDED, CERTIFIED FIRE EXTINGUISHER WILL BE REQUIRED ON SITE, INSIDE CONTAINMENT.
G. EXISTING SHAFTS, STAIRS, AND ELEVATORS ARE TO REMAIN WITHOUT MODIFICATION.
H. FIRE ALARM SYSTEMS WILL INCLUDE NEW PLAN & INSTALLATION FROM LICENSED FIRE ALARM VENDOR.
I. FIRE RATED WALL ASSEMBLIES TO BE UPGRADED AS NEEDED TO MEET CURRENT CODES.

SUITE - AREA KEY NOTES (PARTIAL)

5	3,446 SQ FT
9	3,271 SQ FT
10	5,933 SQ FT
13	8,682 SQ FT



NORTH

1 G101 ENLARGED PLAN
SCALE: NTS'

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Bobby McKinzie
Date: Mar 16, 2021
2015 INTERNATIONAL CODES & 2020 NEC

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Health ONE

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STATE OF COLORADO
TOM THOMPSON
305692
03.03.21
LICENSED ARCHITECT

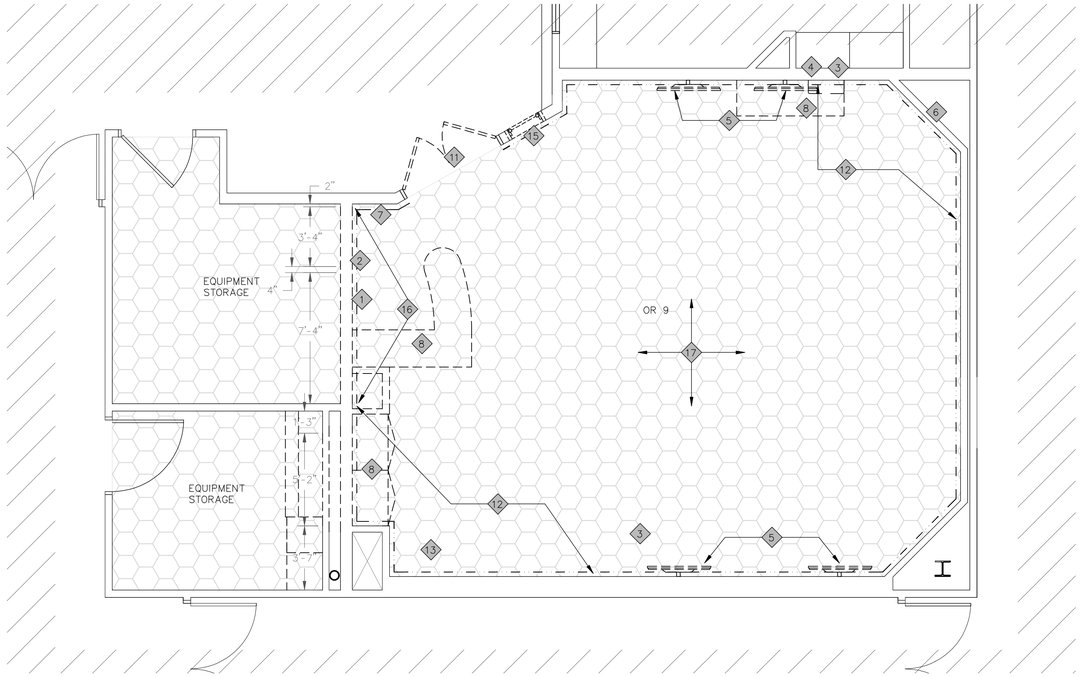
PROJECT NO.: 190318

DRAWN BY: TH, BEPS
CHECKED BY: TT
SCALE: NTS
DATE: 01.14.2020
ISSUED FOR: CONSTRUCTION
REVISIONS:
5 03.03.2021

SHEET TITLE:
CODE COMPLIANCE PLAN

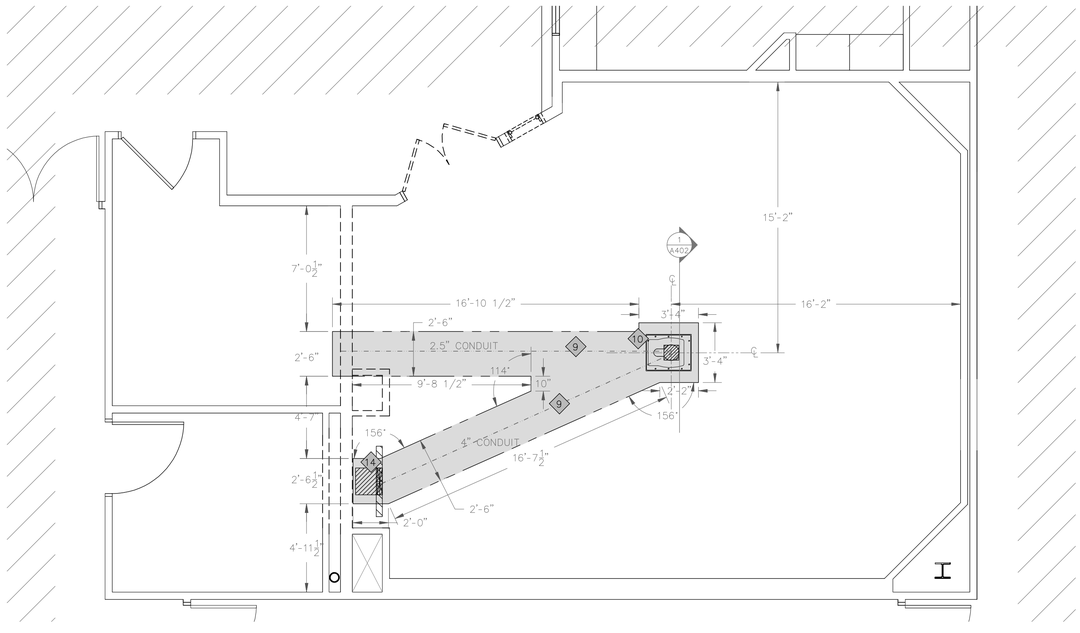
SHEET NO.:
G101

DWG FILENAME: HYBRID OR 9 SHEET SIZE: 36" x 24"



NORTH

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



NORTH

CONDUIT/TRENCH PLAN
SCALE: 1/4"=1'-0"

DEMOLITION LEGEND	
	REMOVE CASEWORK, EQUIPMENT & FIXTURES AS INDICATED BY DASHED LINE
	EXISTING ELEMENT TO REMAIN
	REMOVE EXISTING FLOORING AS INDICATED BY HATCH PATTERN, PREP SURFACE FOR NEW FLOORING
	REMOVE EXISTING GYP BRD ALONG ROOM PERIMETER TO 7'-0" A.F.F. FOR INSTALLATION OF NEW LEAD-LINED DRYWALL
	EXISTING POWER OUTLET LOCATION TO REMAIN
	REMOVE EXISTING POWER OUTLET; SAFE-OFF AND/OR PREP FOR NEW LOCATION
	EXISTING DATA/PHONE OUTLET TO REMAIN
	REMOVE EXISTING DATA/PHONE; TERMINATE, SAFE-OFF AND/OR PREP FOR NEW LOCATION
	REMOVE EXISTING VIDEO CABLE OUTLET PRESERVE CONNECTIONS TO BE RELOCATED IN NEW PLAN
	OUT OF SCOPE

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GENERAL NOTES	
A.	CONTRACTOR TO PREPARE FOR LEVEL IV INFECTION CONTROL & CONTAINMENT WITH ALL REQUIREMENTS DESCRIBED IN THE INFECTION CONTROL RISK ASSESSMENT.
B.	ELECTRICAL DEMOLITION IS FOR REFERENCE ONLY. REFER TO ENGINEERED ELECTRICAL FOR DEMOLITION PLANS.
C.	CONTRACTOR TO FIELD VERIFY ALL ASPECTS OF THE SITE & DIMENSIONS BEFORE CONSTRUCTION COMMENCES.
D.	REPLACE OR REPAIR ANY EXISTING SURFACES WHICH ARE DAMAGED DURING DEMOLITION (I.E. - CEILING GRID, CEILING TILE, WALL COVERING, FLOOR COVERINGS, ETC.).
E.	REMOVE EXISTING FLOORING, ADHESIVE AND MASTIC AT ALL LOCATIONS WHERE INDICATED BY HATCH PATTERN. PATCH & PREP SUBFLOOR TO MEET MANUFACTURER'S REQUIREMENTS FOR NEW FLOORING MATERIALS. FLOAT SUBFLOOR AS NECESSARY TO ALIGN FINISHED SURFACE BETWEEN NEW FLOORING AND EXISTING TO REMAIN.
F.	NOTIFY PROJECT MANAGER IMMEDIATELY IF THE REMOVAL OF MECHANICAL, ELECTRICAL, PLUMBING SYSTEMS OR COMPONENTS WILL ADVERSELY AFFECT THE OPERATION OF MEP SYSTEMS OUTSIDE THE LIMIT OF DEMOLITION.
G.	WHERE WALL OUTLETS ARE SHOWN TO BE REMOVED, SAFE-OFF CONNECTION AS REQUIRED BY CODE. PATCH & PREP WALL FOR PAINT.
H.	EXISTING ACROVYN WALL PANELS TO REMAIN WHERE UNAFFECTED BY CONSTRUCTION. REMOVE PANELS WHERE NEEDED & FOR INSTALLATION OF NEW CABINETS/CASEWORK.
I.	ALL EXISTING EQUIPMENT TO BE REMOVED BY HOSPITAL SUPPLIED VENDOR. CONTRACTOR TO PROVIDE SUPPORT AS NEEDED & INCLUDE ALL ELECTRICAL DEMOLITION IN SCOPE OF WORK.
J.	REFER TO STRUCTURAL DRAWINGS FOR REMOVAL & REPLACEMENT OF CONC. FLOOR SLAB.
K.	TRENCH LOCATIONS & DIMENSIONS SHOWN DOWN BELOW CONCRETE TO DEPTH REQUIRED FOR CONDUIT BEND RADIUS DETERMINED BY ELECTRICIAN. RE: STRUCTURAL FOR DETAILS.
1 L.	CONTRACTOR TO REMOVE DEVICE COVERS ALONG WALLS WHERE GYP BRD IS BEING REPLACE FOR LEAD-LINED GYP BRD.

KEY NOTES	
1	REMOVE & SALVAGE EXISTING WALL MOUNTED STRYKER LIGHT & CAMERA CONTROL PANEL FOR RELOCATION. RE: FLOOR PLAN, ELECT.
2	REMOVE & SALVAGE EXISTING SURGICAL LIGHT CONTROL PANEL FOR RELOCATION, RE: ELECT LIGHTING PLAN
3	REMOVE & SALVAGE EXISTING S-VID/COMP SINGLE GANG WALL PLATE FOR RELOCATION, RE: ELECT
4	REMOVE & SALVAGE EXISTING COPPER DVI SINGLE GANG WALL PLATE FOR RELOCATION, RE: ELECT
5	REMOVE WALL MOUNTED MONITORS, SALVAGE FOR RELOCATION IN NEW PLAN, RE: ELEVATIONS
6	REMOVE & DISPOSE OF WALL MOUNTED BACK-LIT VIEW BOX. INFILL WALL OPENING W/ LEAD-LINED GYP. BRD. & PREP FOR PAINT.
7	REMOVE & SALVAGE ALL EXISTING NURSE CALL, CONTROLS AND INTERCOM FOR RELOCATION IN NEW PLAN.
8	REMOVE AND DISPOSE OF EXISTING MILLWORK.
9	BELOW FLOOR CONDUIT RUN. COORDINATE W/ ELECTRICIAN FOR PROPER BEND RADIUS ON CONDUITS TO CONFIRM CABLE LENGTHS ARE SUITABLE. INFILL W/ CONCRETE TO SMOOTH, LEVEL FINISH FOR NEW FLOORING.
10	TABLE ANCHORING & BASE PLATE. CONFIRM W/ GE SITE SPECIFIC DRAWINGS FOR MOUNTING LOCATION. BASE PLATE TO BE MOUNTED DIRECTLY TO CONCRETE W/ T.O. PLATE INSTALLED FLUSH ABOVE LEVEL CONCRETE FLOOR TO ALLOW FOR THICKNESS OF RFM FLOORING.
1 11	REMOVE EXISTING DOOR & FRAME. SALVAGE ALL EXISTING DOOR HARDWARE & OPERATORS TO BE INSTALLED ON NEW LEAD-LINED DOORS. PROVIDE NEW CONTINUOUS HINGES SPECIFIC TO THE WEIGHT OF NEW DOORS.
12	REMOVE EXISTING GYP BRD ALONG ROOM PERIMETER TO 7'-0" A.F.F. FOR INSTALLATION OF NEW LEAD-LINED DRYWALL AS NOTED BY LEGEND'S LINE TYPE.
1 13	RELOCATE EXISTING OUTLET LOWER TO CONFORM W/ NEW OPTI-FLEX CABINET. OUTLET WILL SERVE THE CABINET.
14	LOCATION FOR NEW WALL & C-FRT CABINETS.
15	REMOVE EXISTING WINDOW & FRAME, PREP OPENING FOR NEW LEAD-LINED FRAME & GLASS.
16	REMOVE SECTION OF WALL TO INSTALL NEW LEAD-LINED DOOR/WINDOW & FRAMES.
17	GC TO PLAN FOR SUBSTANTIAL GRINDING, FLOAT & ADHESION FOR NEW CONDUCTIVE FLOORING FIELD. RYERSON CONCRETE TO REVIEW & MANAGE THIS PROCESS.

DWG FILENAME: HYBRID OR 9 SHEET SIZE: 36" x 24"

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Health ONE

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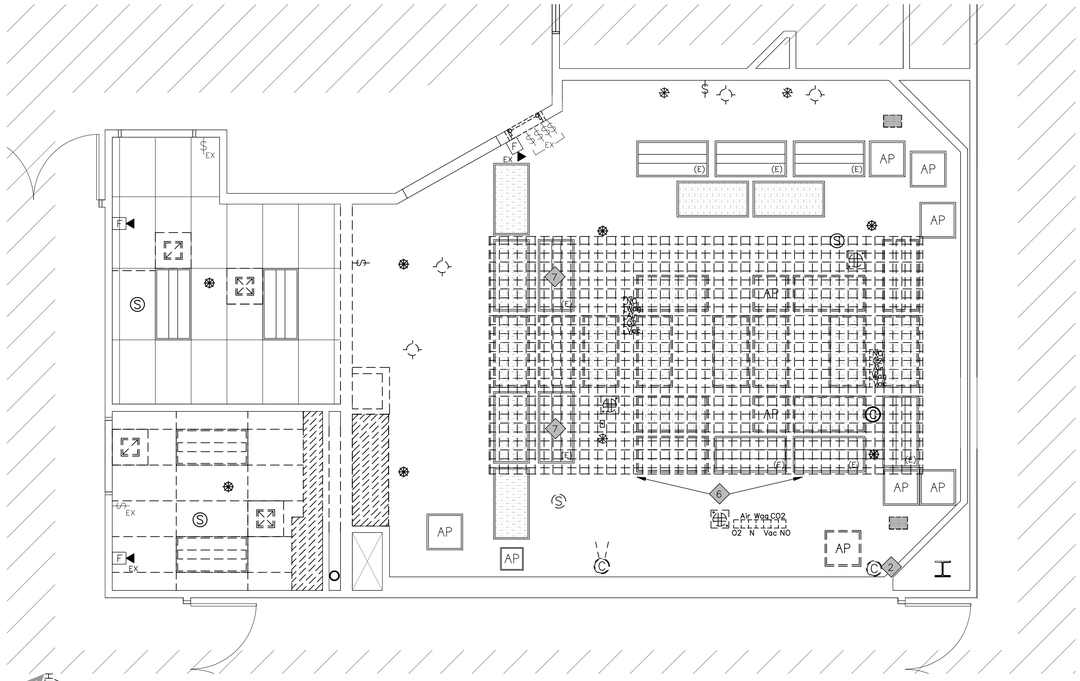
STATE OF COLORADO
TOM THOMPSON
305692
03.03.21
LICENSED ARCHITECT

PROJECT NO.: 190318

DRAWN BY: TH, BEPS
CHECKED BY: TT
SCALE: 1/4" = 1'
DATE: 01.14.2020
ISSUED FOR: CONSTRUCTION
REVISIONS:
1 02.18.2020

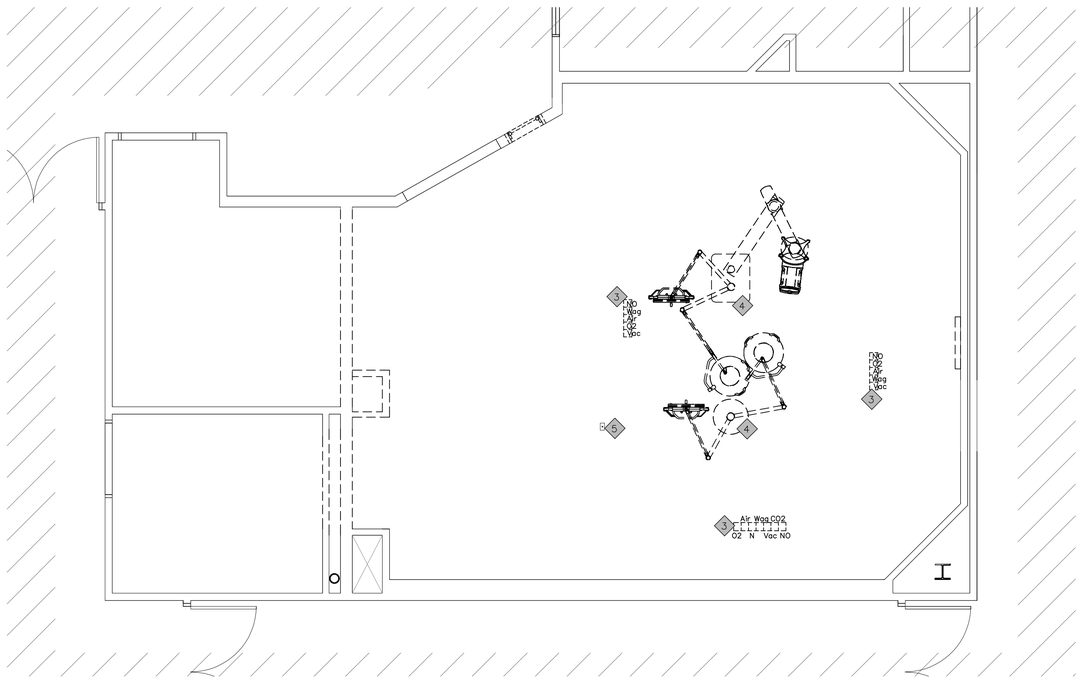
SHEET TITLE:
DEMOLITION PLAN
CONDUIT TRENCH PLAN

SHEET NO.:
AD101



NORTH

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



NORTH

CEILING EQUIP DEMO
SCALE: 1/4"=1'-0"

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

CEILING DEMOLITION LEGEND	
	REMOVE EXISTING 2'x4' LIGHT FIXTURE, SALVAGE FOR RELOCATION
(E)	EXISTING LIGHT FIXTURE TO REMAIN
AP	REMOVE EXISTING ACCESS PANEL, SALVAGE FOR RELOCATION
AP	EXISTING ACCESS PANEL TO REMAIN
	REMOVE EXISTING SUPPLY AIR DIFFUSER, SALVAGE FOR RELOCATION
	EXISTING SUPPLY DIFFUSER TO REMAIN
	REMOVE EXISTING SUPPLY AIR DIFFUSER, SALVAGE FOR RELOCATION
	REMOVE EXISTING RETURN AIR DIFFUSER, SALVAGE FOR RELOCATION
	REMOVE & DISPOSE OF EXISTING CAN LIGHT
	EXISTING EQUIPMENT MOUNTS TO BE REMOVED. RELOCATE OR ABANDON PER STRYKER DIRECTION.
	REMOVE & DISPOSE OF EXISTING CEILING GRID AND TILE
	REMOVE & DISPOSE EXISTING SOFFIT
	REMOVE CEILING MOUNTED POWER CABLE REEL, SALVAGE FOR RELOCATION. RE: ELECTRICAL
C	REMOVE CEILING MOUNTED CAMERA, SALVAGE FOR RELOCATION. RE: ELECTRICAL
C	EXISTING CEILING MOUNTED CAMERA TO REMAIN
	REMOVE EXISTING SPRINKLER HEAD FOR RELOCATION IN NEW CEILING PLAN
	EXISTING SPRINKLER HEAD TO REMAIN
S	REMOVE EXISTING SMOKE ALARM HEAD FOR RELOCATION IN NEW CEILING PLAN
S	EXISTING SMOKE ALARM HEAD TO REMAIN
	REMOVE EXISTING CEILING MOUNTED SPEAKER, SALVAGE FOR RELOCATION
F	EXISTING FIRE ALARM/STROBE TO REMAIN
	CEILING HEIGHT DESIGNATION PER AREA
$	EXISTING LIGHT SWITCH LOCATION TO REMAIN
$	REMOVE EXISTING LIGHT SWITCH, TERMINATE & SAFE-OFF CONNECTION.
	OUT OF SCOPE

DEMOLITION GENERAL NOTES	
A.	REMOVE EXISTING GYP. BRD. CEILING AREAS AS NEEDED FOR NEW CONDUIT, POWER AND STRUCTURAL ELEMENTS.
B.	EXISTING CEILING HEIGHTS IN OR & CONTROL TO REMAIN.
C.	DISCONNECT EXISTING CEILING MOUNTED EQUIPMENT ELECTRICAL FOR REMOVAL BY VENDOR.
D.	SALVAGE ALL EQUIPMENT & FIXTURES FOR EITHER RELOCATION OR FOR FACILITIES.
E.	REFER TO ENGINEERED MEP PLANS FOR DEMOLITION OF UTILITIES.
F.	PATCH ALL GYP BRD CEILING LOCATIONS WHERE FIXTURES & DEVICES HAVE BEEN REMOVED. PREP SURFACES TO SMOOTH LEVEL FINISH FOR FINAL PAINT.
G.	TURN ALL EXISTING SPRINKLER HEADS UP WHERE CEILING HAS BEEN REMOVED FOR THE DURATION UNTIL NEW CEILING IS IN PLACE.

KEY NOTES	
1	~~REMOVE EXISTING FLUSH WALL MOUNTED CLOCK & TIMER W/ BACK BOX, SALVAGE FOR OWNER. PATCH & PAINT WALL.~~
2	SECURITY VENDOR TO REMOVE & SALVAGE EXISTING ROOM STATUS CAMERA TO NEW LOCATION IN CEILING PLAN, RE: RCP
3	REMOVE EXISTING CEILING MOUNTED MED GAS OUTLETS, SALVAGE MATERIALS & PRESERVE LINES FOR RELOCATION. RE: MED GAS PLAN
4	REMOVE CEILING MOUNTED BOOMS & ARMS WITH MOUNTING PLATES AND ASSOCIATED POWER. SALVAGE FOR OWNER OR RELOCATION IN NEW CEILING, RE: STRYKER & STRUCTURAL PLANS
5	RELOCATE EXISTING DVI OUTLET BOX TO LOCATION SHOWN IN NEW CEILING PLAN. RE: RCP & STRYKER PLANS
6	REMOVE ENTIRE PORTION OF CEILING AS SHOWN BY HATCH.
7	REMOVE EXISTING LIGHT FIXTURES AS NEEDED TO INSTALL NEW ABOVE CEILING BOOM SUPPORT MEMBERS.

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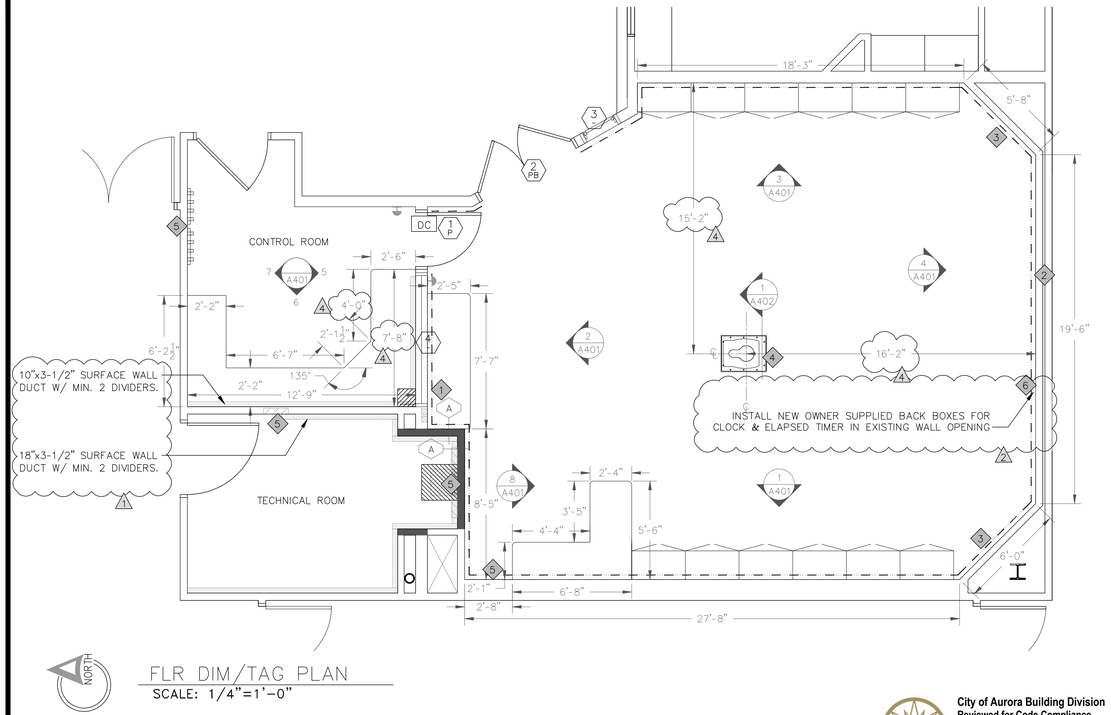
STATE OF COLORADO
TOM THOMPSON
305892
03.03.21
LICENSED ARCHITECT

PROJECT NO.:	190318
DRAWN BY:	TH, BEPS
CHECKED BY:	TT
SCALE:	1/4" = 1'
DATE:	01.14.2020
ISSUED FOR:	CONSTRUCTION
REVISIONS:	
1	02.18.2020
2	12.11.2020
3	01.19.2021

SHEET TITLE:
CEILING DEMOLITION PLAN

SHEET NO.:
AD102

DWG FILENAME: HYBRID OR 9 SHEET SIZE: 36" x 24"



NORTH

FLR DIM/TAG PLAN
SCALE: 1/4"=1'-0"

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Bobby McKinzie*
Date: *Mar 16, 2021*
2015 INTERNATIONAL CODES & 2020 NEC

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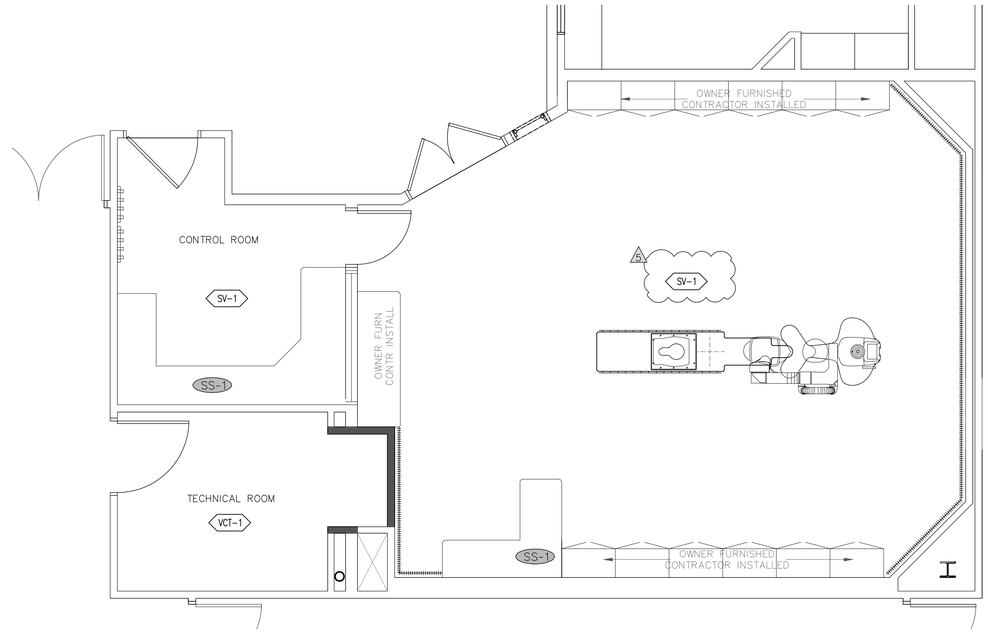

NORTH

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

SCHEDULED DOOR NUMBER
LOCK TYPE
WALL TYPE
ELEVATION NUMBER
SHEET NUMBER
CROSS SECTION

LOCK TYPE
P - PASSAGE SET
PB- PUSH BAR W/ AUTO OPERATOR FUNCTION
DC - DOOR CLOSER HARDWARE

CONSTRUCTION LEGEND

	NEW WALL CONSTRUCTION TYPE 'A'		SURFACE MOUNTED WALL DUCT.
	EXISTING WALLS		
	EXISTING WALLS TO BE UPGRADED WITH LEAD-LINED DRYWALL TO 7'-0" A.F.F. BACK NEW & EXISTING WALL OUTLETS & SWITCHES WITH LEAD. SEE PHYSICIST REPORT FOR LEAD REQUIREMENTS		
	WP-1 ACROVYN PANEL LOCATIONS	P-2	WALL ACCENT PAINT SELECTION/LOCATION
XX-1	FLOORING TYPE	XX-1	CASEWORK FINISH
	OUT OF SCOPE		WP-2 CORNER GUARD LOCATIONS

GENERAL NOTES

A.	REFERENCE SHIELDING PLAN FOR LEAD-LINED SPECIFICATIONS. ALL LEAD SHIELDING SHALL EXTEND FROM FLOOR TO 7'-0" A.F.F. ALL JOINTS BETWEEN LEAD SHALL BE OVERLAPPED. ALL CUTOUTS AND OPENINGS IN THE LEAD WILL BE BACKED AND BAFFLED WITH LEAD OF AT LEAST EQUIVALENT THICKNESS.
B.	INSTALL ACROVYN SPECIFIED SILICON CAULK TO ALL EDGES OF WALL PANELING, SELECT MATCHING CAULK COLOR TO WALL PROTECTION.
C.	NEW PAINT ON ALL WALLS THROUGHOUT.
D.	SPECIFY BRUSHED NICKEL HARDWARE FOR CASEWORK.
E.	PROVIDE 4" BACKSPLASH OF LIKE MATERIAL AT ALL LOCATIONS WHERE COUNTERS MEET WALLS.
F.	APPLY 3mm PVC EDGES TO ALL NEW PLASTIC LAMINATE COUNTERTOPS, DRAWERS, AND DOORS. PROVIDE EASED RADIUS EDGES FOR ALL COUNTER EDGES & TURNS.
G.	INSTALL ADDITIONAL SUPPORT FRAMING FOR NEW DOOR OPENING W/ KICKERS FOR LATERAL BRACING TO BOTTOM OF DECK ABOVE.
H.	FINISHED FLOOR MUST BE LEVEL TO 1/8" IN 10-0".
I.	DURING LEAD-LINED DRYWALL INSTALLATION, PROVIDE LEAD SHIELDING BEHIND EXISTING OUTLET BOXES BELOW 7'-0" A.F.F.
J.	INSTALL VENDOR SUPPLIED CABINETS PRIOR TO THE OR FLOOR INSTALLATION. ROLL SHEET VINYL WHERE FLOORING MEETS WALLS AND CABINETS IN PROCEDURE ROOM TO CREATE 6" WALL BASE OR TO TOP OF CABINET TOE KICKS. INSTALL "J" CAP ON TOP OF ROLLED WALL BASE.
K.	REPLACE EXISTING DOUBLE DOOR HINGES FOR NEW CONTINUOUS HINGES SPECIFIC TO THE WEIGHT OF NEW DOORS.
L.	REMOVE STRIKE & DISCONNECT POWER TO THE DOUBLE DOORS' ACTION RODS TO ELIMINATE ELECTRIFIED LATCHING. DOOR OPERATION WILL EITHER SERVE AS A PUSH/PULL FUNCTION OR BY EXISTING WAVE PLATE SENSORS IN CONJUNCTION WITH EXIISTING POWER TO OPERATE THE DOORS WITHOUT LATCHING.

KEY NOTES

1	DEDICATED DATA PORTS FOR i-STAT, ULTRASOUND & IVUS.
2	DEDICATED POWER FOR LUNG-HEART MACHINE HEATER/COOLER.
3	RELOCATED WALL S/C-VID 2 & DVI OUTLETS INSTALLED @ 18" AFF.
4	GE TABLE FLOOR MOUNTING PLATE. CONFIRM W/ GE PROJECT MGR ON LOCATION BEFORE INSTALL. RE: GE PLANS & PRE-INSTALLATION MANUAL. PLATE NEEDS TO INSET IN THE CONCRETE. BASE PLATE WILL NEED TO BE FLUSH W/ THE FLOOR FINISH SURFACE.
5	INSTALL FIRE RESISTANT WALL BACKING TO SUPPORT GE DISCONNECT, POU CABINET & APRON RACK.
6	NEW RECESSED WALL MOUNTED CLOCK & TIMER W/ CONTROLS. RE: ELEVATIONS & ELECTICAL.

DOOR & GLAZING SCHEDULE

DOOR NO.	DOOR / GLAZING SIZE			TYPE/LABEL	LOCK TYPE	HARDWARE	FRAME	FRAME DEPTH	REMARKS
	WIDTH	HEIGHT	DEPTH						
1	3'-0"	7'-0"	1-3/4"	A/NON RATED	P	SATIN NICKEL	L.H.-H.M. DETAIL A402-8	4-7/8"	SHAKER CHERRY LAMINATE, SOLID CORE, LEAD-LINED DOOR, FRAME & HARDWARE W/ LEAD-LINED SITE GLASS & CONTINUOUS GEARED HINGES. INSTALL "SANTIGRASP" PUSH/PULL HANDLE HARDWARE (NON-LATCHING) & 351 DOOR CLOSER W/ P10 ARM. RE: A402
2	3'-0"/3'-0"	7'-0"	1-3/4"	B/NON RATED	P	SATIN NICKEL	L.H.R.-HM/ R.H.R.-H.M. DETAIL A402-8	4-7/8"	SHAKER CHERRY LAMINATE, SOLID CORE, LEAD-LINED DOOR, FRAME & HARDWARE W/ LEAD-LINED SITE GLASS & CONTINUOUS GEARED HINGES. DOORS WAVE SENSOR AUTO ACTIVATION USING SALVAGED HARDWARE TO BE REINSTALLED. RE: A402
3	2'-0"	3'-0"	2-1/2"	NON RATED	-	-	H.M.	4-7/8"	LEADED FRAME & GLASS PER PHYSICIST REPORT W/ INTEGRAL BLIND INSERT. REINFORCE SILL W/ 16 GA BOX FRAMING FOR ADDITIONAL SUPPORT.
4	7'-2"	4'-0"	0'-1 1/4"	NON RATED	-	-	H.M.	4-7/8"	LEADED FRAME & GLASS PER PHYSICIST REPORT. REINFORCE SILL W/ 16 & 14 GA BOX FRAMING FOR ADDITIONAL SUPPORT - RE: 5-A402.

FINISHES SPECIFICATIONS

FLOORING

~~PUC-1: HEAVY DUTY POLYURETHANE CONCRETE FLOOR SYSTEM, MONOPUR 413 / CERTIFIED VENDOR REQUIRED FOR FLOOR INSTALL.~~

~~SRF-1: EPOXY FLOORING BY SILIKAL MMA, FLAKE FLOORING, STANDARD BLEND NO. 6. USE FOR ALL ROLLED WALL BASE IN PROCEDURE ROOM.~~

VCT-1: TARKETT VINYL COMPOSITE TILE, COLOR: SIERRA BEIGE 1367

SV-1: TARKETT SHEET VINYL IQ TORO SC, 3093-870 RAW IVORY W

B-1: 4" COVED BASE, JOHNSONITE, COLOR BEIGE 49 / INSTALL IN CONTROL & TECHNICAL ROOMS ONLY

WALLS

PT-1: SHERWIN WILLIAMS, SEMI-GLOSS INTERIOR PAINT, 2 COATS ON WALLS. COLOR: SW 6106 (KILIM BEIGE) - APPLY TO CONTROL & TECHNICAL ROOM LOCATIONS.

PT-2: SHERWIN WILLIAMS, SEMI-GLOSS INTERIOR PAINT, 2 COATS. COLOR:SW 7038 (TONY TAUPE) - APPLY TO DOOR & WINDOW FRAMES.

EP-1: EPOXY SHERWIN WILLIAMS, INTERIOR PAINT, 2 COATS ON WALLS. COLOR: SW 6106 (KILIM BEIGE) - APPLY THROUGHOUT HYBRID OR PROCEDURE ROOM WALLS.

EP-2: EPOXY SHERWIN WILLIAMS, INTERIOR PAINT, 2 COATS ON CEILING, COLOR: SHERWIN WILLIAMS SW7005, PURE WHITE EPOXY PAINT - APPLY THROUGHOUT OR CEILING.

CASEWORK

SS-1: APPLY TO ALL COUNTER TOP LOCATIONS, CORIAN, SOLID SURFACE, COLOR: WINDSWEPT PRIMA INSTALL COUNTER GROMMETS FOR CABLING IN THE FIELD, LOCATIONS BY FACILITIES' DIRECTION. V.I.F. ALL EXISTING CONDITIONS TO ENSURE PROPER FABRICATION. PROVIDE SHOP DRAWINGS FOR APPROVAL.

PL-1: APPLY TO ALL VERTICAL PANEL SURFACES. WILSONART LAMINATE COLOR: SHAKER CHERRY, 7935-07. USE 3MM EDGING TO MATCH.
- USE WHITE MELAMINE FOR ALL INTERIOR CABINETS AND DRAWER SURFACES.

WALL PROTECTION

WP-1 - INPRO CORPORATION, OATMEAL 0239, 0.06 THICKNESS, INSTALL W/ TOP CAP TO MATCH ROOM STANDARDS. INSTALL @ 54" AFF (48" SHEETS)

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HYBRID OR 9 / DISCOVERY IGS

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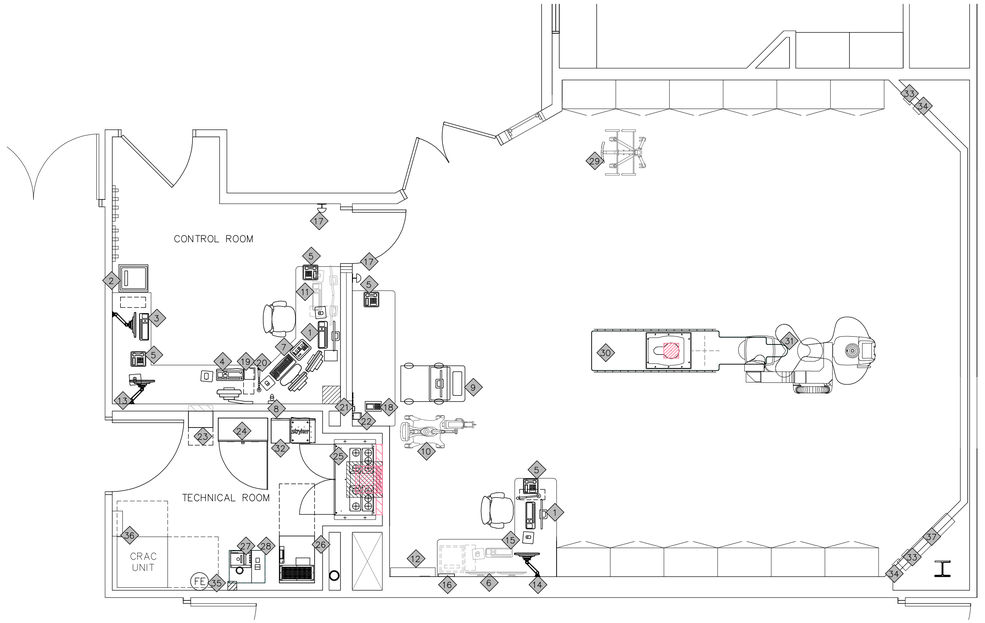
STATE OF COLORADO
TOM THOMPSON
305892
03.03.21
LICENSED ARCHITECT

PROJECT NO.:	190318
DRAWN BY:	TH, BEPS
CHECKED BY:	TT
SCALE:	1/4" = 1'
DATE:	01.14.2020
ISSUED FOR:	CONSTRUCTION
REVISIONS:	
1	02.18.2020
2	12.11.2020
3	01.19.2021
4	02.05.2021
5	03.03.2021

SHEET TITLE:
FLOOR DIM/TAG PLAN
FINISHES PLAN

SHEET NO.:
A101

DWG FILENAME: HYBRID OR 9 SHEET SIZE: 36" x 24"



NORTH

FLOOR EQUIP PLAN
SCALE: 1/4"=1'-0"

EQUIPMENT KEYNOTES			
1	MEDITECH WORKSTATION	19	VITA-LINQ CONTROL
2	MAC LAB PRINTER SHARED - HP LASERJET PRINTER P4105, ON STAND	20	VITA-LINQ MICROPHONE
3	PACS WORK STATION	21	AW WIRELESS MOUSE
4	ADVANTAGE WORK (AW) STATION	22	X-RAY BUZZER
5	PHONES	23	MAIN DISCONNECT PANEL
6	MAC LAB RMOT W/ WALL MOUNTED MONITORS (FUTURE)	24	POWER DISTRIBUTION UNIT
7	OPERATOR'S CONSOLE	25	C-FRT CABINET
8	BOLUS CHASE HAND SWITCH	26	FLUORO UPS
9	VOLCANO IVUS ROLL AROUND WORKSTATION	27	DETECTOR CHILLER
10	INJECTOR	28	COOLIX WATER CHILLER
11	MAC LAB ACQUISITION, MAIN W/ UPS (FUTURE)	29	TABLE SIDE CART
12	OPTIFLEX POU CABINET, PC, MONITOR, SCANNER, TYPE TBD	30	TILTING TABLE
13	STRYKER WALL MOUNTED MONITOR	31	GANTRY
14	WALL MOUNTED STRYKER TOUCH PANEL	32	STRYKER UPS & VISUM LED POWER SUPPLY BOX
15	UNDER COUNTER STRYKER PRINTER	33	NEW DVI WALL PLATE
16	WALL MOUNTED STRYKER CONTROL PANEL (with music controls thru Stryker speakers option)	34	S-VID/BNC WALL PLATE
17	EPO SWITCH	35	CONTRACTOR INSTALLED CO2 FIRE EXTINGUISHER
18	i-STAT DOCKING STATION	36	CRAC UNIT W/ DISCONNECT
		37	EXISTING ISOLATION PANEL

FLOORING PREPARATION & TABLE BASE PLATE INSTALLATION NOTES	
1.	GENERAL CONTRACTOR TO CONDUCT CONCRETE COMPRESSION STRENGTH TEST AS REQUIRED BY GE & STRUCTURAL PLANS. DELIVER RESULTS TO STRUCTURAL ENGINEER.
5 2.	~~FLOORING SYSTEM WITH THIS EQUIPMENT IS THE MONOPOUR 4+3" MONOLITHIC FLOORING. SEE FLOORING INSTALLATION MANUAL.~~
3.	DIMENSIONS FOR BASE PLATE PLACEMENT LOCATION ARE SHOWN WITHIN 1/16" PRECISION. MARK LOCATIONS & CONFIRM W/ GE INSTALL REP BEFORE DRILLING. REFER TO GE PRE-INSTALLATION MANUAL FOR BOLT HOLE DRILL LOCATIONS FOR BASE PLATE.
4.	BOLTS INSTALLED BY CONTRACTOR SHOWN IN STRUCTURAL PLANS TO BE INSPECTED BY A 3rd PARTY VENDOR DURING THE INSTALLATION. RE: STRUCTURAL
5.	SEAL GAPS AROUND BASE PLATE W/ GE SUPPLIED GE 2000 SILICONE SEALANT.
6.	SEE GE PRE-INSTALLATION MANUAL FOR ANCHOR BOLT RECOMMENDATIONS.
7.	REFERENCE GE PRE-INSTALLATION MANUAL FOR DRILLING AND ANCHORING CHART & REQUIREMENTS. OWNER TO SCHEDULE GE REP TO INSPECT AND VERIFY ANCHOR LOCATIONS PRIOR TO ANY DRILLING.
5 8.	~~NO EXPANSION JOINT SHALL BE PRESENT IN THE CONCRETE IN THE AREA WHERE MONOPUR SYSTEM IS TO BE APPLIED. NOTIFY PROJECT MANAGER IF ANY EXISTS.~~
9.	FLOOR SLAB ON WHICH EQUIPMENT IS TO BE INSTALLED, NEEDS TO BE LEVEL TO 1/8" OVER 10'. OWNER TO CONTACT GE REP TO INSPECT BEFORE FLOOR FINISHES ARE INSTALLED.
1 10.	CONTRACTOR TO COORDINATE WITH FLOORING CONTRACTOR BEFORE MILLWORK INSTALLATION IN ORDER TO INSTALL THE CONTINUOUS ROLL-UP BASE ALONG MILLWORK TOE-KICKS & EDGE PANELS.

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Bobby McKinzie*
Date: *Mar 16, 2021*
2015 INTERNATIONAL CODES & 2020 NEC

GENERAL NOTES	
A.	REFER TO GE & STRYKER SITE SPECIFIC DRAWINGS FOR EQUIPMENT MOUNTING REQUIREMENTS AND CLEARANCES.
B.	REVIEW & INCLUDE ALL NOTES FROM THE GE & STRYKER SITE SPECIFIC PLANS ATTACHED TO THIS CONSTRUCTION DOCUMENT SET AS PART OF CONSTRUCTION.
C.	CONTRACTOR TO PROVIDE WALL BACKING SUPPORT FOR ALL WALL HUNG EQUIPMENT.
D.	CONTRACTOR IS TO COORDINATE WITH OWNER & SUPPORT THE NEEDS OF THE INSTALLATION TEAM BEFORE & DURING SETUP.
E.	CONTRACTOR IS RESPONSIBLE FOR ALL DRILLING & SAW CUTTING NECESSARY TO PREP THE SITE.
F.	VERIFY W/ GE SITE SPECIFIC PLANS ALL DIMENSIONS & PLATE INSTALL INSTRUCTIONS. MOUNTING PLATES WILL BE DELIVERED DURING CONSTRUCTION.
G.	REFERENCE ELECTRICAL PLANS & GE SHEETS E1 & E2 FOR ELECTRICAL CONDUIT RUNS. PLAN TRENCHING & FLOOR/WALL DUCT RUNS ACCORDINGLY.
H.	REFERENCE GE'S PRE-INSTALLATION MANUAL IN CONJUNCTION WITH DRAWINGS & SPECIFICATIONS FOR COMPLETE INFORMATION.
I.	OWNER VENDOR TO INSTALL ALL LOW VOLTAGE CABLING.
J.	MONITORS INSTALLATION & CONNECTIONS TO THE GE EQUIPMENT SHALL ONLY BE MADE IN THE PRESENCE OF A GE REPRESENTATIVE.
K.	FLUSH MOUNT ALL NEW WALL DUCTS WHERE POSSIBLE. PLACE LEAD LINING BEHIND DUCT TO MAINTAIN PROTECTION.
L.	REFERENCE ELECTRICAL PLANS & GE SHEETS 17 - 21 FOR ELECTRICAL CONDUIT RUNS. GC ELECTRICIAN TO CONFIRM CABLE LENGTHS TO CONDUIT RUN DISTANCES. REFERENCE GE PRE-INSTALL MANUAL FOR ALL EQUIPMENT BACK BOX CUT-IN ELEVATIONS & DIMENSIONS.
M.	ELECTRICIAN TO INSTALL PLASTIC FLIP COVERS OVER ON EPO SWITCH LOCATIONS.
N.	CONNECTION OF THE MDP TO THE GE EQUIPMENT SHALL ONLY BE MADE IN THE PRESENCE OF A GE REPRESENTATIVE. RE: PRE-INSTALLATION MANUAL FOR CHECK LIST OF ITEMS PRIOR TO CONNECTING THE MDP.
O.	SEPARATE CONDUITS USED FOR POWER & SIGNAL WIRES. CONDUITS MUST BE LARGE ENOUGH TO PASS CABLE CONNECTORS THROUGH W/ ALL OTHER CABLES ALREADY IN THE CONDUIT.
P.	INSTALL JUNCTION BOXES/POWER OUTLETS ABOVE MOUNTING BRACKETS FOR ALL WALL HUNG MONITORS. ELEVATIONS SHOW APPROX. HEIGHT. VERIFY CLEARANCE OF BRACKET BEFORE CUTTING IN BOX LOCATIONS.
Q.	CONTRACTOR TO STRING & RING ALL NEW BACK BOXES FOR CABLING.
R.	CONTRACTOR TO WORK W/ OWNER TO INSTALL OWNER FURNISHED EQUIPMENT NOT SHOWN ON EQUIPMENT PLAN.
S.	CONTRACTOR WILL RECEIVE A ROOM TEMPLATE FROM GE AS A PRE-INSTALL ITEM TO CLEARLY IDENTIFY MOUNTING POSITIONS AS DESCRIBED IN THE PREINSTALLATION MANUAL, PAGE 99.
1 T.	SEE DETAIL 9-A402 FOR NEW ROOF PIPE PENETRATION CURB DETAIL FOR COLD WATER SUPPLY & RETURN TO RTU 1

DWG FILENAME: HYBRID OR 9 SHEET SIZE: 36" x 24"

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Health ONE

HYBRID OR 9 / DISCOVERY IGS

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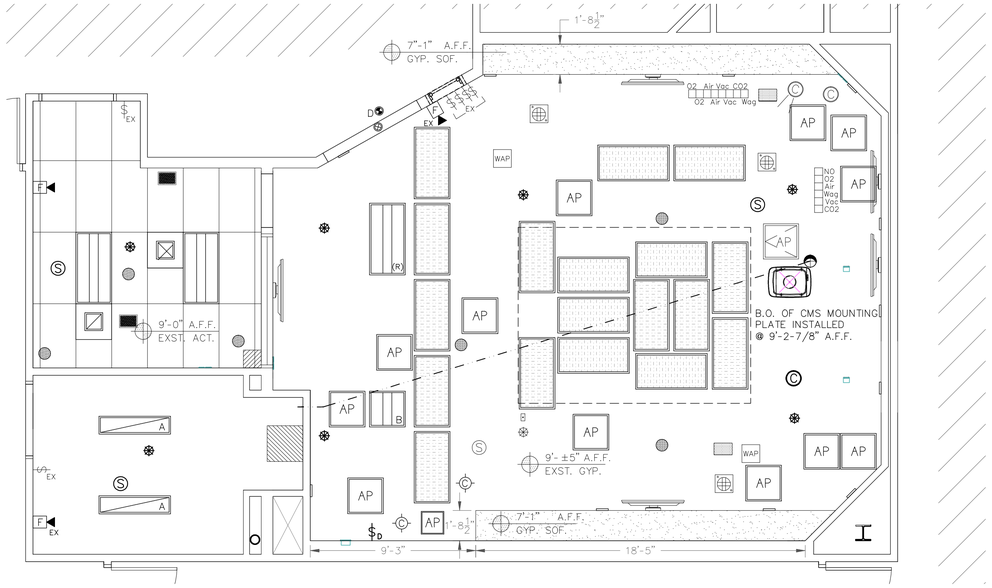
STATE OF COLORADO
TOM THOMPSON
305692
03.03.21
LICENSED ARCHITECT

PROJECT NO.:	190318
DRAWN BY:	TH, BEPS
CHECKED BY:	TT
SCALE:	1/4" = 1'
DATE:	01.14.2020
ISSUED FOR:	CONSTRUCTION
REVISIONS:	
1	02.18.2020
5	02.18.2021

SHEET TITLE:
EQUIPMENT FLOOR PLAN

SHEET NO.:
A102



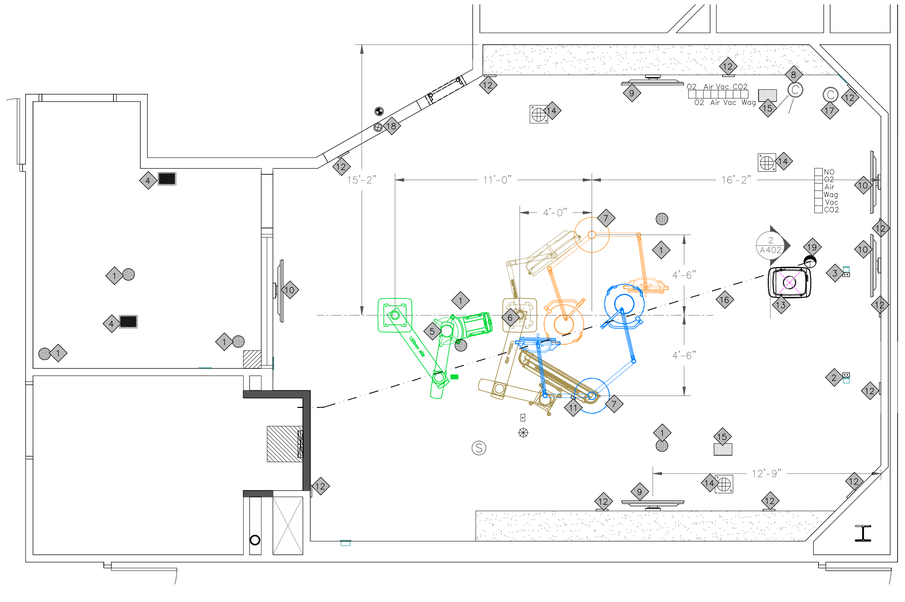
NORTH

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

LIGHT FIXTURE SCHEDULE	
A	LITHONIA 1x4 RECESSED LENSED TROFFER, GTL SERIES GTL-4-48L-A125125-LP840
B	HEALTHCARE LIGHTING, 2x2 TROFFER W/ HIGH CRI ANTIMICROBIAL PAINT, HSTLED22-F-MVOLT
C	KENALL 4" SEALED RECESSED SURGICAL LED DOWNLIGHT, M4DL4-DCFW-14L-40K9-CSS-RIS4-120-DIM1
D	LITHONIA RECESSED LED X-RAY LIGHT, LE-P-W-1-R-120/277-SW16

GENERAL NOTES	
A.	CONTRACTOR SHALL COMPARE THIS REFLECTED CEILING PLAN WITH ELECTRICAL LIGHTING & MECHANICAL PLANS. REPORT ANY OMISSIONS OR INCONSISTENCIES TO THE PROJECT MANAGER.
B.	REFER TO ENGINEERED LIGHTING PLAN FOR LIGHT FIXTURE SELECTION SPECIFICATIONS & EMERGENCY POWERED/CRITICAL CIRCUIT LIGHTING LOCATIONS.
C.	INSTALL GANTRY POSITIONING TARGETS ON SOFFIT & WALLS @ A MINIMUM HEIGHT OF 80.7" & MAXIMUM OF 90.5" ABOVE FINISHED FLOOR.
D.	POSITIONING TARGETS TO BE INSTALLED AT THE TIME OF GANTRY INSTALLATION & SHOULD BE VISIBLE TO THE LASER SOURCE WITHOUT OBSTRUCTIONS.
E.	CONTRACTOR TO BALANCE HVAC SYSTEM TO MEET SPECIFIED REQUIREMENTS FOR TEMP & AIR FLOW AS DESCRIBED IN MECHANICAL & GE SITE SPECIFIC DRAWINGS.
F.	NEW SPRINKLER HEAD LOCATIONS SHOWN ARE PROPOSED. CONTRACTOR TO USE CERTIFIED LICENSED FIRE VENDOR TO INSURE COMPLETE COVERAGE AS REQUIRED BY CODE.
G.	REPAIR AND/OR PATCH FIRE PROOFING ON ALL EXISTING ABOVE CEILING STRUCTURAL STEEL SUPPORT MEMBERS WHETHER AFFECTED BY CONSTRUCTION OR BY EXISTING CONDITION.
H.	REFER TO STRUCTURAL PLANS FOR INSTALLATION OF NEW UNISTRUT SUPPORT MEMBERS ABOVE CEILING.
I.	ALL CEILING MOUNTED FIXTURES TO BE FLUSH MOUNTED OR SHALL NOT EXTEND MORE THAN 1/4" BELOW THE FINISHED CEILING.
J.	CONTRACTOR TO PROVIDE LICENSED FIRE ALARM VENDOR FOR REVIEW & INSTALLATION OF ANY NEW OR RELOCATED DEVICES AS REQUIRED BY CODE.
K.	REFER TO GE & STRYKER SITE SPECIFIC DRAWINGS FOR ALL EQUIPMENT MOUNTING REQUIREMENTS & CLEARANCES ALONG WITH ELECTRICAL, CABLING & MED GAS CONNECTIONS.
L.	REVIEW BOTH GE & STRYKER PRE-INSTALLATIONS FOR IMPORTANT SPECIFICS NOT MENTIONED IN THIS DOCUMENT SET.
M.	MONITORS INSTALLATION & CONNECTIONS TO THE GE EQUIPMENT SHALL ONLY BE MADE IN THE PRESENCE OF A GE REPRESENTATIVE.
N.	VERIFY NEW CAMERA INSTALL LOCATIONS HAVE CLEAR LINE OF SITE BEFORE INSTALLING J-BOXES & MOUNTING.
O.	INSTALL FIRE RESISTANT BACKING FOR ALL WALL MOUNTED MONITOR LOCATIONS.
1 P.	PAINT CEILING IN OR DIVINE WHITE EPOXY EP-2 & ACCESS PANELS TO MATCH.

CMS UNIT INSTALLATION NOTES	
1.	CONTRACTOR TO PROVIDE FABRICATION OF CMS CEILING PLATE BASED UPON STRUCTURAL ENGINEER'S DESIGN. RE: STRUCTURAL & PG. 13 OF GE SITE SPECIFIC PLANS.
2.	CMS MOUNTING PLATE HEIGHT BASED ON OPTION 2 OF GE PRE-INSTALLATION MANUAL. COVER PLATE WITH DROP-DOWN BOX OR COVER TO BE CLOSED WITH REST OF CEILING. INCLUDE THE DEPTH OF THE NEW 7mm FLOORING THICKNESS IN THE MOUNTING HEIGHT CALCULATION.
3.	CMS TO C-FRT LIMITED CABLE LENGTH OF 42'-6" SHOWN ON PLANS. CONSIDER UNOBSTRUCTED PATH DURING CEILING INSTALLATION AS MUCH AS POSSIBLE. INSTALL CABLE USING "J" HOOKS.
4.	CONTRACTOR TO CONFIRM AREA OF FREE SPACE ABOVE CEILING ABOVE CABLE GUIDE FOR CABLE BUNDLE ATTACHMENT AS SHOWN ON PG. 114 OF THE PRE-INSTALLATION MANUAL.
5.	NO MOUNTED HARDWARE CAN PROTRUDE BELOW THE FINISHED CEILING HEIGHT IN THE CMS COVERAGE AREA.
6.	CONTRACTOR TO USE IDENTIFIED PIVOT ROTATIONAL CENTER WHEN ALIGNING THE FLOOR TEMPLATE TO THE STRUCTURAL PLATE, NOT THE CENTER OF THE CMS MOUNTING PLATE. THE PIVOT ROTATIONAL CENTER IS NOT CENTERED ON THE PLATE.
7.	SEE PG. 118 OF GE PRE-INSTALLATION MANUAL FOR DIMENSIONAL RELATIONSHIP BETWEEN CMS PLATE PIVOT WITH THE PATIENT TABLE AXIS. NOTICE OFFSET OF 570 MM FROM TABLE LONGITUDINAL AXIS. CMS FIXATION POINT IS A FIXED POSITION W/ RESPECT TO THE TABLE POSITION.
8.	CONTRACTOR TO CONFIRM STRUCTURAL PLATE IS THE CORRECT SIZE FOR THE GE CMS PLATE TO ENSURE PROPER INSTALLATION OF CEILING CABLE GUIDE.
1 9.	CONTRACTOR IS RESPONSIBLE FOR THE HARDWARE TO MOUNT THE CMS TO THE STRUCTURAL PLATE. HARDWARE NEEDED: 4 M12 BOLTS GRADE 8.8 (STANDARD 1/2" BOLT GRADE 5), NORD LOCK WASHERS AND 8 EACH NUTS (DOUBLE NUT). BOLT LENGTH DEPENDS ON CUSTOM PLATE / 2.5" SHOULD WORK IN MOST CASES.



NORTH

CEILING EQUIP PLAN
SCALE: 1/4"=1'-0"

EQUIPMENT KEYNOTES	
1	VITA-LINQ SPEAKERS
2	DVI CEILING PLATE (TEE)
3	DVI CEILING PLATE (ANES. VITALS)
4	STRYKER SPEAKER
5	STRYKER EQUIPMENT BOOM
6	DUAL FLAT MONITOR BOOM (DVI CABLING)
7	SURGICAL LIGHT & LEAD SHIELD
8	RELOCATED SRYKER HD PAN/TILT/ZOOM CAMERA
9	STRYKER 55" LCD MONITOR
10	OWNER PROVIDED 55" LCD ANESTHESIA, PERFUSION & VITALS MONITOR/CONTRACTOR INSTALL MOUNTING BRACKETS
11	VITA-LINQ MICROPHONE ON BOOM
12	GANTRY POSITIONING TARGETS
13	CABLE MANAGEMENT SYSTEM (CMS)
14	RELOCATED ELECTRICAL MED REEL RETRACTABLE CORD MOUNT
15	RELOCATED SALVAGED SPEAKER
16	GE CABLE FROM CMS TO C-FRT CABINET. LIMITED LENGTH. SET & MAINTAIN CLEAR PATH FOR SHORTEST DISTANCE
17	RELOCATED SALVAGED STRYKER SUITE STATUS CAMERA
18	CONTRACTOR SUPPLIED X-RAY WARNING LIGHT & CONTROL PANEL. AVAILABLE FROM GE SUPPLY
19	7.87" DIA. OPENING IN CEILING FOR CABLE GUIDE KEEP AREA CLEAR OF ANY OBSTRUCTIONS

STRYKER EQUIPMENT INSTALLATION NOTES	
1.	REVIEW ALL PRE-INSTALLATION MANUALS' INSTRUCTIONS PROVIDED BY STRYKER FOR COMPLETE & PROPER EQUIPMENT INSTALLATION.
2.	CONTRACT TO PROVIDE ALL ROUGH-IN REQUIREMENTS AS EXPLAINED IN THE PRE-INSTALLATION MANUALS.
3.	INSTALL STRYKER SUPPLIED MOUNTING PLATE AT 3" ABOVE THE FINISHED CEILING & MUST BE LEVEL WITHIN .25".
4.	ALLOW ENOUGH SPACE TO ROUTE CABLES TO SURGICAL LIGHTS AND FLAT PANEL NAVIGATION ARMS.
5.	ALL CONDUITS MUST HAVE INSULATION BUSHINGS ON ALL OPEN ENDS & ALL HARD CONDUITS MUST BE TERMINATED WITHIN 18" OF THE CENTER OF THE MOUNT.
6.	ALL CABLING & ELECTRICAL TO BE COMPLETED PRIOR TO STRYKER EQUIP INSTALLS. WORK MUST BE COMPLETE INCLUDING FLOORING & PAINT AND BE A DUST-FREE ENVIRONMENT.
7.	DO NOT EXCEED FOUR 90 DEGREE BENDS FOR CONDUIT RUNS & MUST BE 50' OR LESS IN LENGTH.
8.	MED GASES MUST BE PIPED TO THE MEDICAL GAS RISER LOCATION PRIOR TO INSTALLATION OF STRYKER BOOM.

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Bobby McKinzie*
Date: *Mar 16, 2021*
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dpteam@thedesignplot.com
(303) 565-7282

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STATE OF COLORADO
TOM THOMPSON
305892
03.03.21
LICENSED ARCHITECT

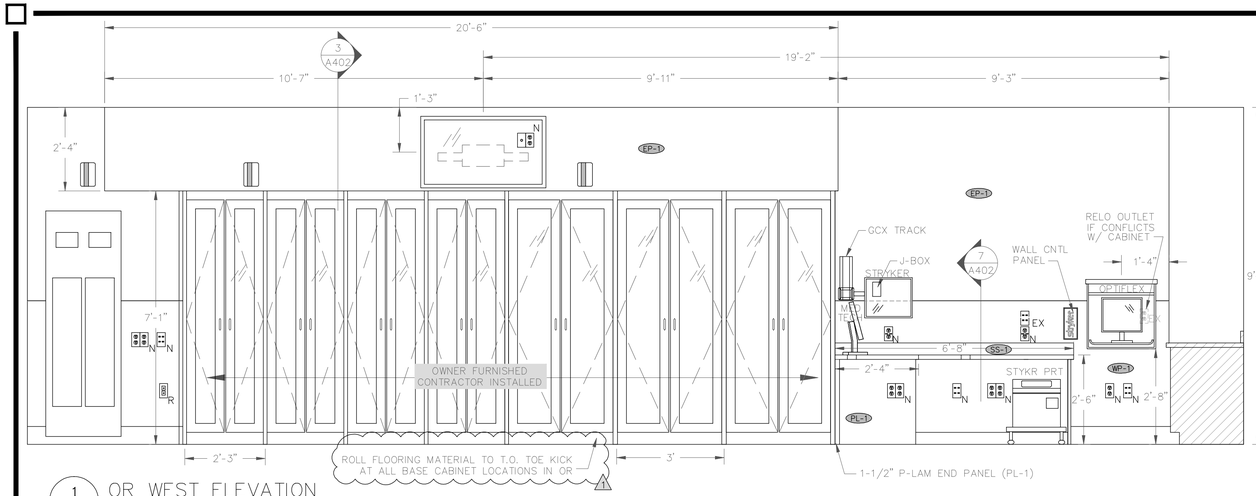
PROJECT NO.: 190318

DRAWN BY: TH, BEPS
CHECKED BY: TT
SCALE: 1/4" = 1'
DATE: 01.14.2020
ISSUED FOR: CONSTRUCTION
REVISIONS:
1 02.18.2020
2
3
4
5

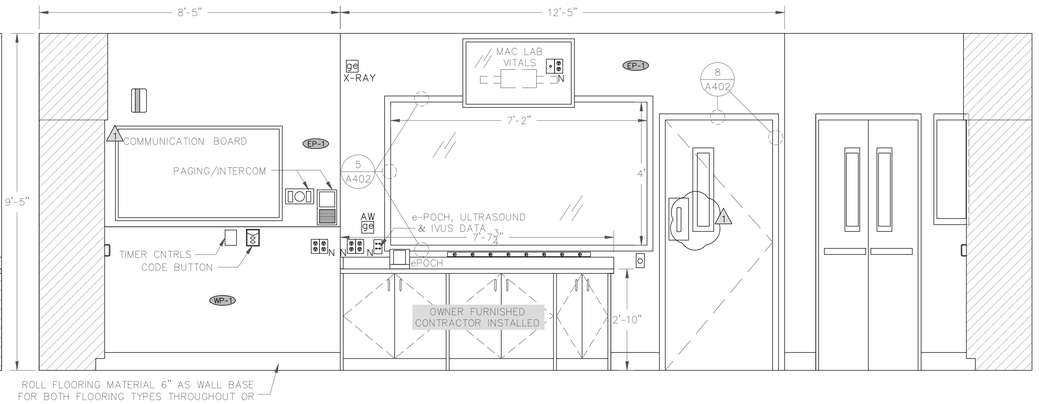
SHEET TITLE:
RFELECTED CEILING PLAN
CEILING EQUIP PLAN

SHEET NO.:
A103

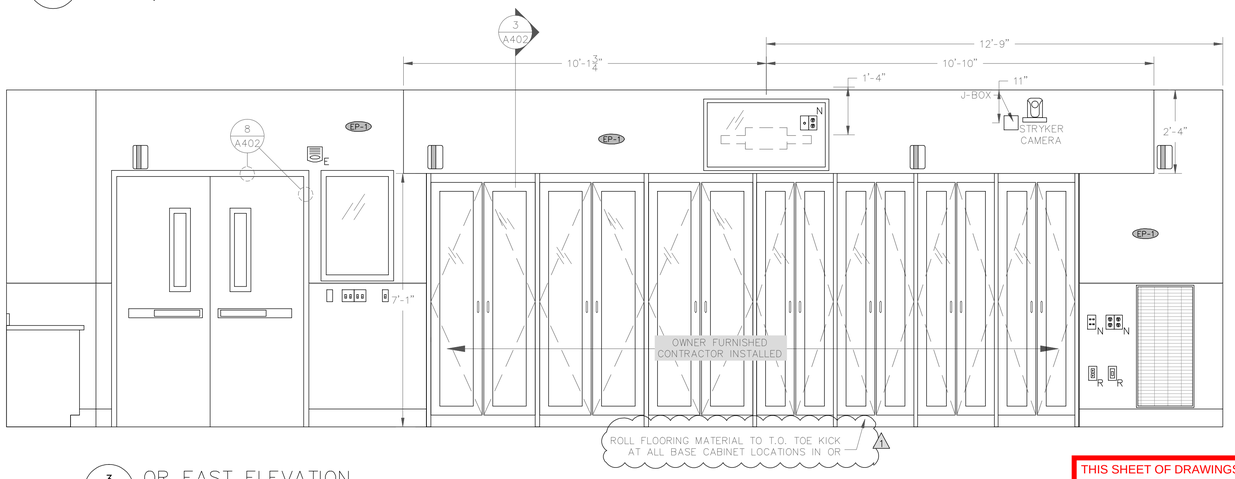
DWG FILENAME: HYBRID OR 9 SHEET SIZE: 36" x 24"



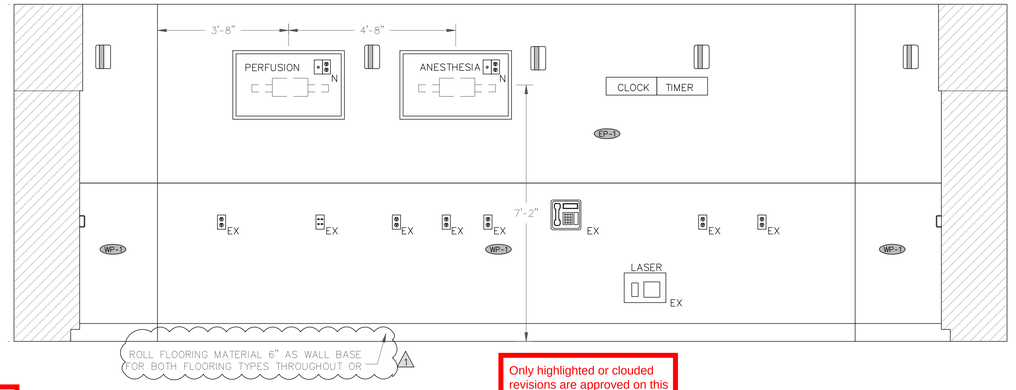
1 A401 OR WEST ELEVATION
SCALE: 1/2" = 1'



2 A401 OR NORTH ELEVATION
SCALE: 1/2" = 1'



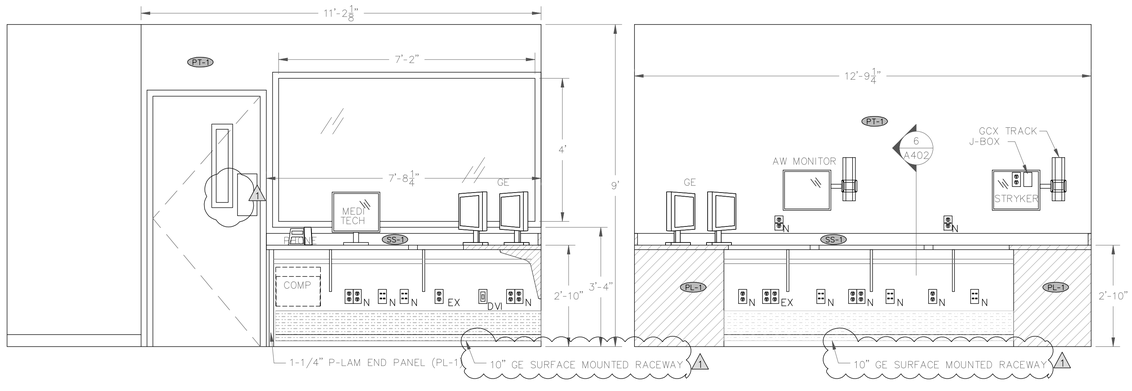
3 A401 OR EAST ELEVATION
SCALE: 1/2" = 1'



4 A401 OR SOUTH ELEVATION
SCALE: 1/2" = 1'

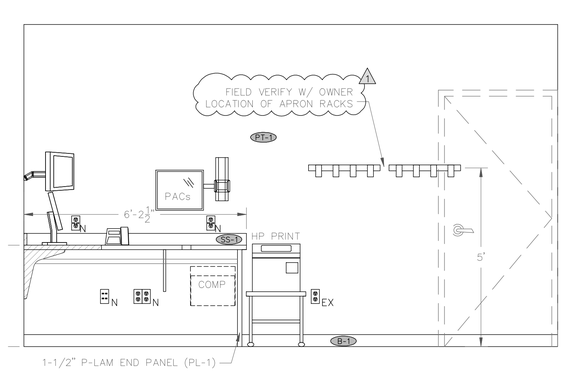
THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

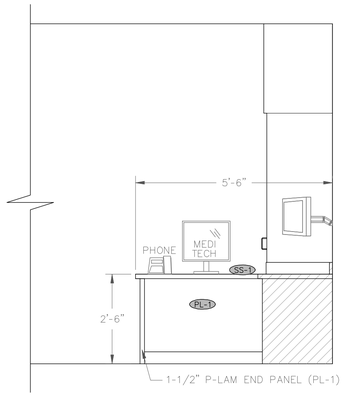


5 A401 CONTROL ROOM SOUTH
SCALE: 1/2" = 1'

6 A401 CONTROL ROOM WEST
SCALE: 1/2" = 1'



7 A401 CONTROL ROOM NORTH
SCALE: 1/2" = 1'



8 A401 NURSE STATION
SCALE: 1/2" = 1'

The Medical Center of Aurora
Health ONE

HYBRID OR 9 / DISCOVERY IGS

MEDICAL CENTER OF AURORA

1501 S. POTOMAC ST.
AURORA, CO 80012

SOUTH CAMPUS

TOM THOMPSON ARCHITECT
2510 SOUTH OSCEOLA STREET
DENVER, COLORADO 80219
720.989.6084
TomThompsonArchitect@gmail.com

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STATE OF COLORADO
TOM THOMPSON
305892
03.03.21
LICENSED ARCHITECT

PROJECT NO.: 190318

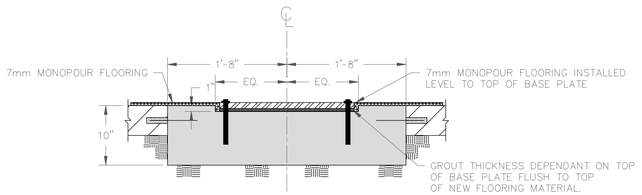
DRAWN BY:	TH, BEPS
CHECKED BY:	TT
SCALE:	1/2" = 1'
DATE:	01.14.2020
ISSUED FOR:	CONSTRUCTION

REVISIONS:
1 02.18.2020
2 12.11.2020
3 01.19.2021

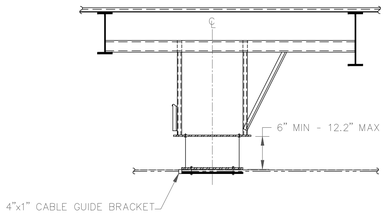
SHEET TITLE:
ELEVATIONS

SHEET NO.:
A401

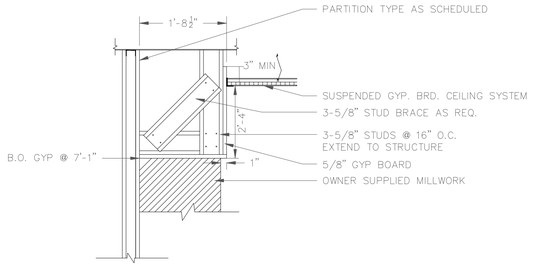
DWG FILENAME: HYBRID OR 9 SHEET SIZE: 36" x 24"



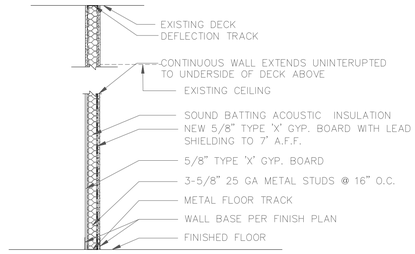
1 A402 FLOOR SECTION
SCALE: 1" = 1'



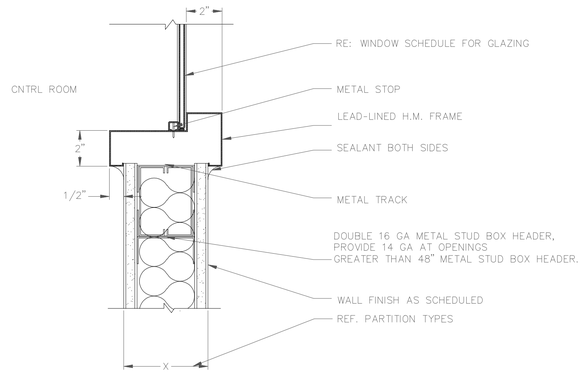
2 A402 CMS MOUNTING PLATE
SCALE: 1/2" = 1'



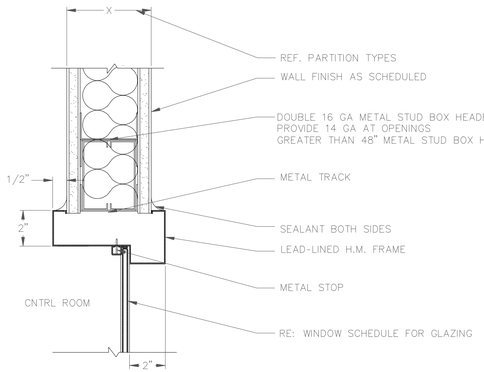
3 A402 SOFFIT FURR DOWN SECT
SCALE: 1" = 1'



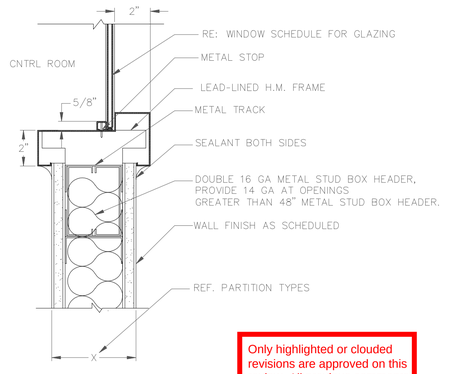
A WALL TYPE "A"
SCALE: NTS



HEAD DETAIL



JAMB DETAIL

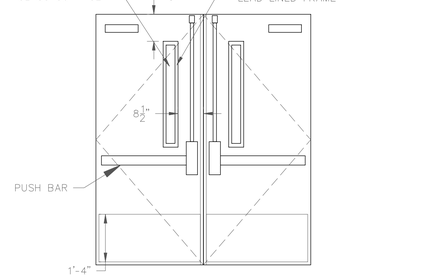


SILL DETAIL

5 A402 WINDOW FRAME DETAILS
SCALE: 3" = 1'

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

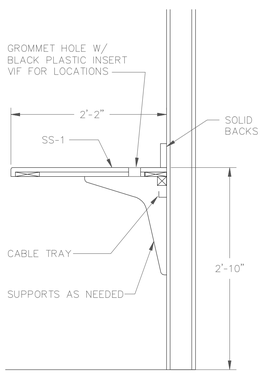
City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Bobby McKinzie*
Date: *Mar 16, 2021*
2015 INTERNATIONAL CODES & 2020 NEC



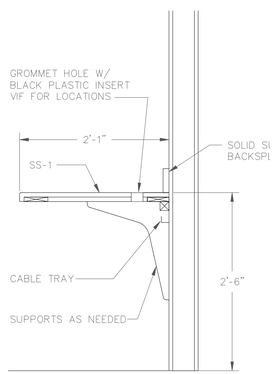
A DOOR TYPE "A"
SCALE: 1/2" = 1'

MATCH EXISTING SURGERY SUITE STANDARDS

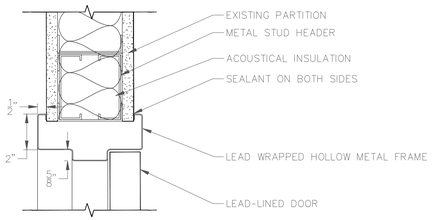
B DOOR TYPE "B"
SCALE: 1/2" = 1'



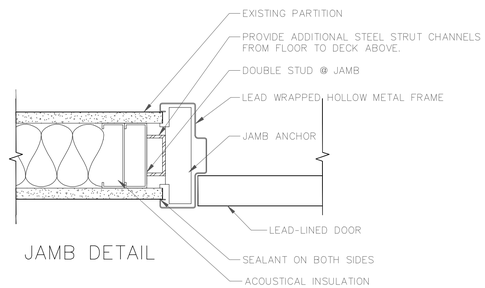
6 A402 CNTRL COUNTER
SCALE: 1" = 1'



7 A402 NURSE STAT COUNTER
SCALE: 1" = 1'

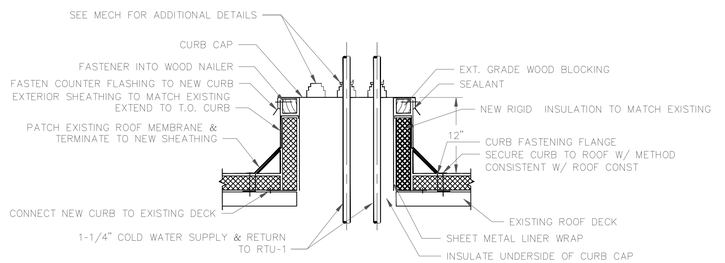


HEAD DETAIL



JAMB DETAIL

8 A402 DOOR FRAME DETAILS
SCALE: 3" = 1'



1 9 A402 ROOF PIPES PENETRATION
SCALE: NTS

The Medical Center of Aurora
Health ONE

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MEDICAL CENTER OF AURORA

1501 S. POTOMAC ST.
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SOUTH CAMPUS

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STATE OF COLORADO
TOM THOMPSON
305892
03.03.21
LICENSED ARCHITECT

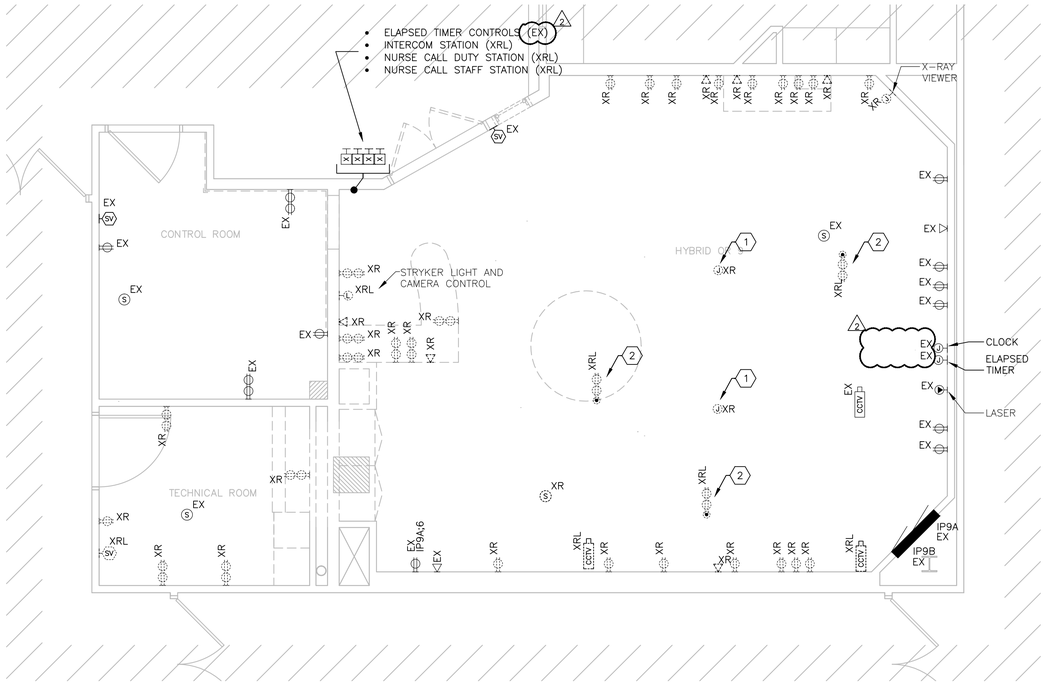
PROJECT NO.: 190318

DRAWN BY:	TH, BEPS
CHECKED BY:	TT
SCALE:	AS NOTED
DATE:	01.14.2020
ISSUED FOR:	CONSTRUCTION
REVISIONS:	
1	02.18.2020
2	
3	
4	
5	

SHEET TITLE:
ELEVATIONS
SECTIONS/DETAILS

SHEET NO.:
A402

DWG FILENAME: HYBRID OR 9 SHEET SIZE: 36" x 24"



1 DEMOLITION PLAN - POWER AND SIGNAL

1/4"=1'-0"

0 2 4 8

GENERAL NOTES:

1. REFER TO ELECTRICAL GENERAL NOTES AND SYMBOLS ON SHEET E0.0.
2. REFER TO ELECTRICAL SPECIFICATIONS ON SHEET E0.1.

KEYED NOTES: (#)

1. DISCONNECT BRANCH CIRCUITS TO EXISTING BOOM. REMOVE EXISTING CONDUCTORS TO ISOLATED POWER PANEL. EXISTING CONDUIT HOMERUN MAY REMAIN FOR EXTENSION TO NEW BOOM LOCATION.
2. DISCONNECT BRANCH CIRCUITS TO EXISTING DROP CORD OUTLET. REMOVE AND SALVAGE DROP CORD OUTLET ASSEMBLY FOR RELOCATION. REMOVE EXISTING CONDUCTORS TO ISOLATED POWER PANEL. EXISTING CONDUIT HOMERUN MAY REMAIN FOR EXTENSION TO NEW OUTLET LOCATION.
3. REMOVE EXISTING LIGHTING FIXTURE FOR RELOCATION. MAINTAIN EXISTING LIGHTING CONTROLS.

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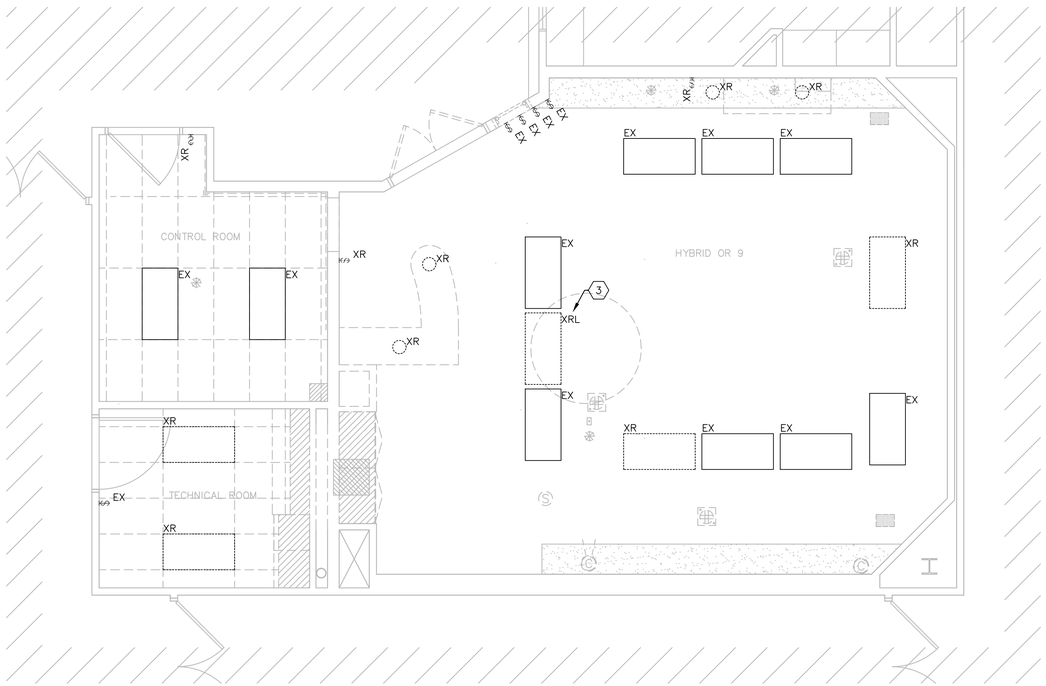

1 DEMOLITION PLAN - LIGHTING

1/4"=1'-0"

0 2 4 8

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

The Medical Center of Aurora
Health ONE

HYBRID OR 9 / DISCOVERY IGS

MEDICAL CENTER OF AURORA

1501 S. POTOMAC ST.
AURORA, CO 80012

SOUTH CAMPUS

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720.989.6084
TomThompsonArchitect@gmail.com

IN ASSOCIATION WITH
WMA a Salas O'Brien Company
815 South Wabash Avenue Chicago, IL 60605
9250 East Costilla Avenue Greenwood Village, CO 80112
WMA Job# 19119-00

dp DESIGN PLOT
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COLORADO LICENSED PROFESSIONAL ENGINEER MICHAEL P THOMPSON 53150
12/11/2020

PROJECT NO.: 18-22

DRAWN BY:
CHECKED BY:
SCALE: AS SHOWN
DATE: 10/25/2019
ISSUED FOR: CONSTRUCTION
REVISIONS:
2 REVISION 2 12/11/2020

SHEET TITLE:
DEMOLITION PLANS ELECTRICAL

SHEET NO.:
ED101

G:\19119-00\320_ELEC\DRAWINGS\ED101 - ELECTRICAL DEMOLITION PLAN.DWG Last edited by JEFF.CVIKOTA on 12-11-2020 @ 3:53
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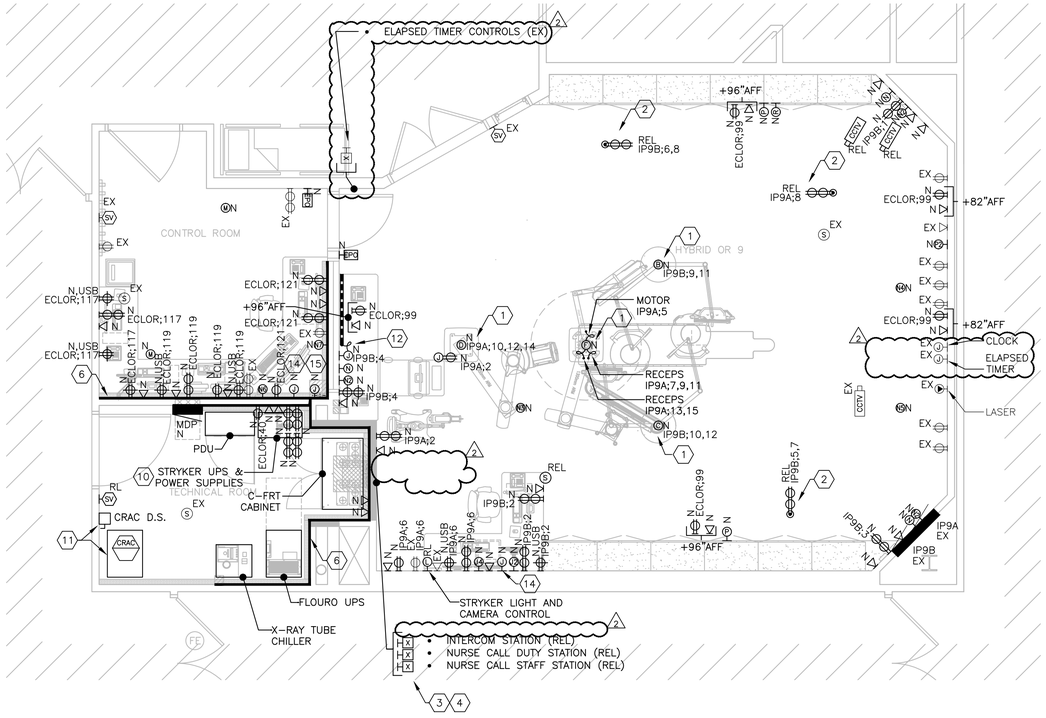

1 ENLARGED OR PLAN - POWER AND SIGNAL

1/4"=1'-0"

0 2 4 8

STRYKER CONDUIT SCHEDULE		
CONDUIT RUN ITEM - ITEM	CONDUIT QTY	CONDUIT QTY
B - UPS	2	1-1/4"
B - PWR SUP	1	2"
C - UPS	2	1-1/4"
C - PWR SUP	1	2"
D - UPS	2	2"
F - UPS	2	1-1/4"
F - UPS	2	2"
L - PWR SUP	1	3/4"
M - UPS	1	3/4"
N - UPS	1	1-1/4"
N2 - UPS	1	1-1/4"
N3 - UPS	1	1-1/4"
N4 - UPS	1	1-1/4"
N5 - UPS	1	1-1/4"
N6 - UPS	1	2"
N7 - UPS	1	2"
P - UPS	1	1-1/4"
P2 - UPS	1	1-1/4"
R - UPS	1	1-1/4"

Additional Conduit Runs (Contractor Supplied and Installed)				
From	To	Qty	Size In.	Size mm
Cable Management system	CFRT Cabinet	4	4	100
Table	CFRT Cabinet	2	4	100
Bolus Chase	Table	1	2 1/2	64
Water line	Cable Management system	1	3	75
Warning light controller	Warning light	1	1/2	50
Warning light controller	Power distribution unit	1	1/2	50
Warning light controller	120-V 1 phase power	1	As Required	As Required
XR-Buzzer	CFRT Cabinet	1	3/4	19
XR-Buzzer	Control Room	1	3/4	19
Monitor	Control Room	1	2 1/2	64
Large Display Monitor	CFRT Cabinet	1	3 and 3/4	75 and 19
CFRT Cabinet	Tram/PDM	2	3	75
Main Disconnect Panel	20 KVA UPS	2	As Required	As Required
Power distribution unit	Emergency off	1	1/2	50
Power distribution unit	Emergency off	1	1/2	50
Main Disconnect Panel	Power distribution unit	1	1	25
Main Disconnect Panel	480-V 3 phase power	1	As Required	As Required
AW wireless mouse	AW workstation	1	3/4	19
Patient Monitoring	Monitor boom	1	3	75
Patient Monitoring	TRAM/PDM (vendor equip. boom)	2	3	75

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GENERAL NOTES:

1. REFER TO ELECTRICAL GENERAL NOTES AND SYMBOLS ON SHEET E0.0.
2. REFER TO ELECTRICAL SPECIFICATIONS ON SHEET E0.1.
3. REMOVE AND RE-INSTALL EXISTING CEILING MOUNTED DEVICES AS REQUIRED TO ACCOMMODATE WORK ABOVE CEILING.
4. WIRE NEW ELECTRICAL DEVICES TO INDICATED NORMAL AND CRITICAL BRANCH PANELBOARDS, UNO. CIRCUIT NUMBERS INDICATED DESIGN INTENT ONLY. VERIFY AVAILABLE CIRCUITS IN FIELD.
5. RACEWAY FOR MEDICAL EQUIPMENT SHOWN FOR DESIGN INTENT ONLY. REFER TO MEDICAL EQUIPMENT VENDOR DRAWINGS FOR RACEWAY REQUIREMENTS, DETAILS, AND ADDITIONAL INFORMATION. CONTRACTOR SHALL INSTALL RACEWAY SYSTEMS TO ACCOMMODATE MAXIMUM VENDOR CABLE LENGTHS.
6. CONTRACTOR SHALL INSTALL EMPTY RACEWAY SYTSEM AND EQUIPMENT DESIGNATED AS CONTRACTOR/OWNER PROVIDED ON VENDOR DRAWINGS. CUT AND PATCH WALLS, CEILING, AND FLOOR SLAB FOR INSTALLATION OF NEW CONDUITS.
7. MODIFY EXISTING EQUIPOTENTIAL GROUNDING SYSTEM AS REQUIRED.

KEYED NOTES: (#)

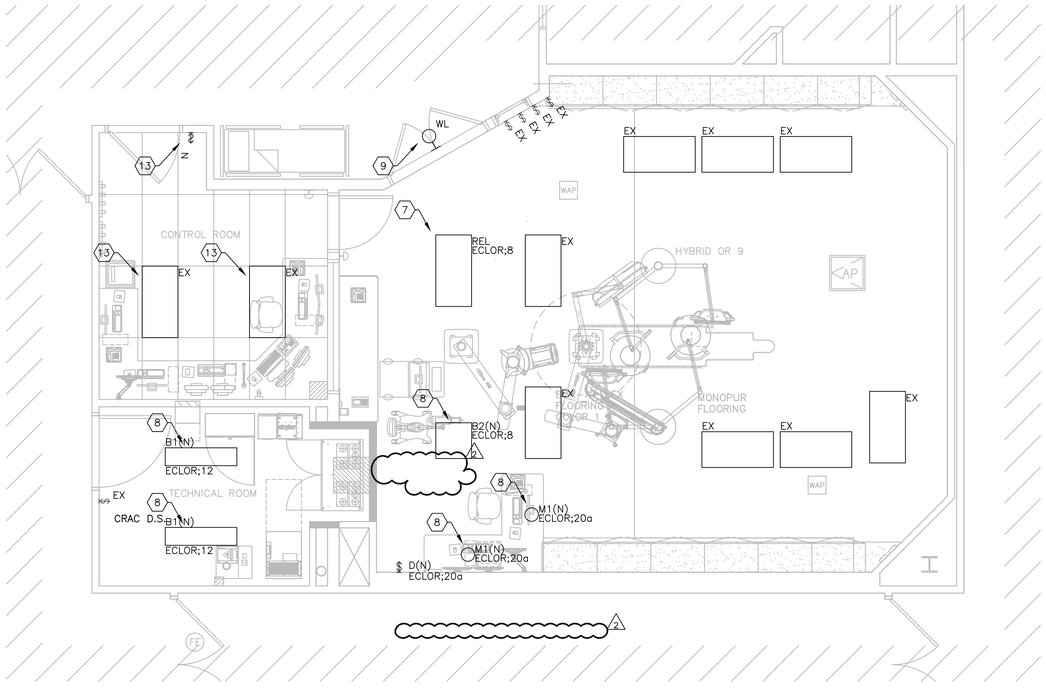
1. EXTEND EXISTING BRANCH CIRCUIT RACEWAY AND PROVIDE NEW BRANCH CIRCUIT CONDUCTORS TO RE-FEED BOOM IN NEW LOCATION. REFER TO STRYKER CONDUIT SCHEDULE.
2. RELOCATE SALVAGED DROP CORD OUTLET ASSEMBLY AND INSTALL IN NEW CEILING. EXTEND EXISTING BRANCH CIRCUIT RACEWAY AND PROVIDE NEW BRANCH CIRCUIT CONDUCTORS TO RE-FEED DROP CORD OUTLET.
3. RELOCATE EXISTING NURSE CALL DEVICES. COORDINATE WIRING REQUIREMENTS WITH EXISTING SYSTEM VENDOR, BEACON COMMUNICATIONS.
4. RELOCATE EXISTING INTERCOM STATION. COORDINATE WIRING REQUIREMENTS WITH EXISTING SYSTEM VENDOR
5. NOT USED 2
6. SURFACE-MOUNTED WALL DUCT. REFER TO GE DRAWINGS FOR SIZE AND INSTALLATION CRITERIA.
7. EXTEND EXISTING LIGHTING BRANCH CIRCUIT TO NEW LIGHTING FIXTURE LOCATION. PROVIDE NEW TRIM. MAINTAIN EXISTING LIGHTING CONTROLS.
8. RE-WORK EXISTING LIGHTING BRANCH CIRCUIT SERVING ROOM TO NEW LIGHTING FIXTURES. PROVIDE CONTROLS AS INDICATED.
9. PROVIDE 120V, 1PH POWER CONNECTION TO WARNING LIGHT VIA 2#12, 1#12G, 3/4"C FEEDER. CONNECT TO AVAILABLE CIRCUIT IN PANEL ECLOR, PROVIDE NEW 20A/1P CIRCUIT BREAKER AS REQUIRED. PROVIDE CONNECTION TO WARNING LIGHT CONTROL PANEL AND PDU AS REQUIRED, REFER TO GE VENDOR DRAWINGS.
10. PROVIDE (4) QUADRUPLEX RECEPTACLES FOR STRYKER UPS AND POWER SUPPLIES. PROVIDE (2) CIRCUITS FOR EACH QUADRUPLEX FOR A TOTAL OF (8) CIRCUITS. CONNECT CIRCUITS TO PANELBOARD 'ECLOR', USE AVAILABLE CIRCUIT SPACES #110-124 (EVEN NUMBERED). PROVIDE A NEW 20A/1P BREAKER FOR EACH UTILIZED CIRCUIT SPACE. REFER TO STRYKER VENDOR DRAWINGS.
11. PROVIDE POWER CONNECTION TO CRAC UNIT VIA 4#12, 1#12G, 3/4"C FEEDER FROM AVAILABLE CIRCUIT IN PANEL EQHS. PROVIDE NEW 15A/3P CIRCUIT BREAKER IN PANEL EQHS FOR CRAC CIRCUIT. PROVIDE NEW 30A/3P, 600V DISCONNECT SWITCH FOR CRAC UNIT IN TECHNICAL ROOM IN AN ACCESSIBLE LOCATION. REFER TO MECHANICAL SCHEDULES.
12. PROVIDE 4LF SINGLE-CIRCUIT PLUGMOLD WITH SINGLE OUTLETS 12" OC EQUAL TO WIREMOLD #2400 SERIES.
13. REPLACE EXISTING TOGGLE SWITCH WITH 0-10V WALLBOX DIMMER SWITCH. REPLACE EXISTING FLUORESCENT BALLASTS WITH DIMMING BALLASTS. COORDINATE BALLASTS AND DIMMER FOR COMPATIBILITY IN DIMMING DOWN TO 10%.
14. PROVIDE A 6X6 JUNCTION BOX WITH BLANK COVERPLATE WITH BUSHED 2" OPENING AND 2" CONDUIT BETWEEN CONTROL ROOM AND NURSE WORKSTATION. PROVIDE PULLSTRING AND INSULATING BUSHINGS.
15. PROVIDE A 6X6 JUNCTION BOX WITH BLANK COVERPLATE WITH BUSHED 2" OPENING AND 2" CONDUIT TO STRYKER EQUIPMENT BOOM 'D'. PROVIDE PULLSTRING AND INSULATING BUSHINGS.

1 ENLARGED OR PLAN - LIGHTING

1/4"=1'-0"

0 2 4 8

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Bobby McKinzie*
Date: *Mar 16, 2021*
2015 INTERNATIONAL CODES & 2020 NEC



LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	LAMP QUANT	LAMP TYPE/CRI-CT	FIXTURE VOLT	FIXTURE WATTS	MANUFACTURER	ITEM NUMBER	REMARKS
B1	1x4 RECESSED LENSED LED TROFFER WITH 4800 LUMEN PACKAGE	-	LED / 80-4000K	120	30.9	LITHONIA	GTL-4-48L-A12125-LP840	NOTES 1,2,3
B2	2x2 TROFFER WITH HIGH CRI ANTIMICROBIAL PAINT	-	LED / 90-4000K	120	97.0	HEALTHCARE LIGHTING	HSTLED22-F-MVOLT	NOTES 1,2,3
M1	4" SEALED RECESSED SURGICAL LED DOWNLIGHT WITH 1000 LUMEN PACKAGE AND UL WET LOCATION	-	LED / 90-4000K	120	16.0	KENALL	M4DL4-DCFW-14L-40K9-CSS-RIS4-120-DIM1	NOTES 1,2,3
WL	RECESSED LED 'XRAY IN USE' SIGN	-	LED	120	1.0	LITHONIA	LE-P-W-1-R-120/277-SW16	NOTES 1,2

NOTES:

1. MANUFACTURERS' CATALOG NUMBERS ARE INTENTIONALLY INCOMPLETE; COORDINATE REQUIRED TRIM KITS, MOUNTING BRACKETS, LAMPS, FINISHES, ETC. WITH THE ARCHITECT, CONTRACT DOCUMENTS, SPECIFICATIONS, AND OTHER TRADES.
2. VERIFY TYPE OF CEILING OR WALL FOR MOUNTING OF LIGHTING FIXTURES PRIOR TO ORDERING.
3. UTILIZE EXISTING POWER CONNECTIONS WHERE PRACTICABLE

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The Medical Center of Aurora
Health ONE

HYBRID OR 9 / DISCOVERY IGS

MEDICAL CENTER OF AURORA

1501 S. POTOMAC ST.
AURORA, CO 80012

SOUTH CAMPUS

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WMA Job# 19119-00

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(303) 565-7282

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COLORADO LICENSED MICHAEL P. THOMPSON 53150 PROFESSIONAL ENGINEER
12/11/2020

PROJECT NO.: 18-22

DRAWN BY:
CHECKED BY:
SCALE: AS SHOWN
DATE: 10/25/2019
ISSUED FOR: CONSTRUCTION
REVISIONS:
2 REVISION 2 12/11/2020

SHEET TITLE:
ENLARGED PLAN ELECTRICAL

SHEET NO.:
E101

Utility fault contribution				
Transformer KVA:	2000			
Transformer %Z:	5.32			
Secondary Voltage:	480 Volts			
3-Phase I_{SCA}	=	PER XCEL STANDARDS	=	45,200

Source:	Utility Transformer Secondary			
Load:	MSBA			
System Voltage:	480 Volts			
Conductor Material:	Copper			
Conductor Size:	500 AWG or MCM			
# of sets (n):	11			
Raceway Material:	PVC			
Conductor Constant (C):	26706			
Length of Circuit (L):	79 Feet			
f	=	$\frac{1.732 \times L \times I}{C \times n \times V_{L\text{-}L}}$	=	0.0
M	=	$\frac{1}{1+f}$	=	0.958
3-Phase I_{SCA}	=	$I_{SCA} \times M$	=	43,301

Source:	MSBA			
Load:	ATS-2B-N			
System Voltage:	480 Volts			
Conductor Material:	Copper			
Conductor Size:	350 AWG or MCM			
# of sets (n):	2			
Raceway Material:	Steel			
Conductor Constant (C):	19704			
Length of Circuit (L):	35 Feet			
f	=	$\frac{1.732 \times L \times I}{C \times n \times V_{L\text{-}L}}$	=	0.1
M	=	$\frac{1}{1+f}$	=	0.878
3-Phase I_{SCA}	=	$I_{SCA} \times M$	=	38,024

Source:	ATS-2B-L			
Load:	CR			
System Voltage:	480 Volts			
Conductor Material:	Copper			
Conductor Size:	350 AWG or MCM			
# of sets (n):	2			
Raceway Material:	Steel			
Conductor Constant (C):	19704			
Length of Circuit (L):	27 Feet			
f	=	$\frac{1.732 \times L \times I}{C \times n \times V_{L\text{-}L}}$	=	0.1
M	=	$\frac{1}{1+f}$	=	0.914
3-Phase I_{SCA}	=	$I_{SCA} \times M$	=	34,757

Source:	CR			
Load:	ECHS			
System Voltage:	480 Volts			
Conductor Material:	Copper			
Conductor Size:	500 AWG or MCM			
# of sets (n):	1			
Raceway Material:	Steel			
Conductor Constant (C):	22185			
Length of Circuit (L):	400 Feet			
f	=	$\frac{1.732 \times L \times I}{C \times n \times V_{L\text{-}L}}$	=	2.3
M	=	$\frac{1}{1+f}$	=	0.307
3-Phase I_{SCA}	=	$I_{SCA} \times M$	=	10,658

Source:	ECHS			
Load:	MDP			
System Voltage:	480 Volts			
Conductor Material:	Copper			
Conductor Size:	1 AWG or MCM			
# of sets (n):	1			
Raceway Material:	Steel			
Conductor Constant (C):	7293			
Length of Circuit (L):	100 Feet			
f	=	$\frac{1.732 \times L \times I}{C \times n \times V_{L\text{-}L}}$	=	0.5
M	=	$\frac{1}{1+f}$	=	0.655
3-Phase I_{SCA}	=	$I_{SCA} \times M$	=	6,978

Transformer fault contribution:	T-ECLOR			
Transformer KVA:	75			
Transformer %Z:	1			
Primary Voltage (V_p):	480			
Secondary Voltage (V_s):	208			
f	=	$\frac{I_{SCA(P)} \times V_p \times 1.732 \times \%Z}{100{,}000 \times KVA}$	=	0.8
M	=	$\frac{1}{1+f}$	=	0.564
3-Phase $I_{SCA(S)}$	=	$V_p/V_s \times M \times I_{SCA(P)}$	=	9,080

Source:	T-ECLOR			
Load:	ECLOR			
System Voltage:	208 Volts			
Conductor Material:	Copper			
Conductor Size:	250 AWG or MCM			
# of sets (n):	1			
Raceway Material:	Steel			
Conductor Constant (C):	16483			
Length of Circuit (L):	10 Feet			
f	=	$\frac{1.732 \times L \times I}{C \times n \times V_{L\text{-}L}}$	=	0.0
M	=	$\frac{1}{1+f}$	=	0.956
3-Phase I_{SCA}	=	$I_{SCA} \times M$	=	8,682

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Bobby McKinzie*
Date: *Mar 16, 2021*
2015 INTERNATIONAL CODES & 2020 NEC

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

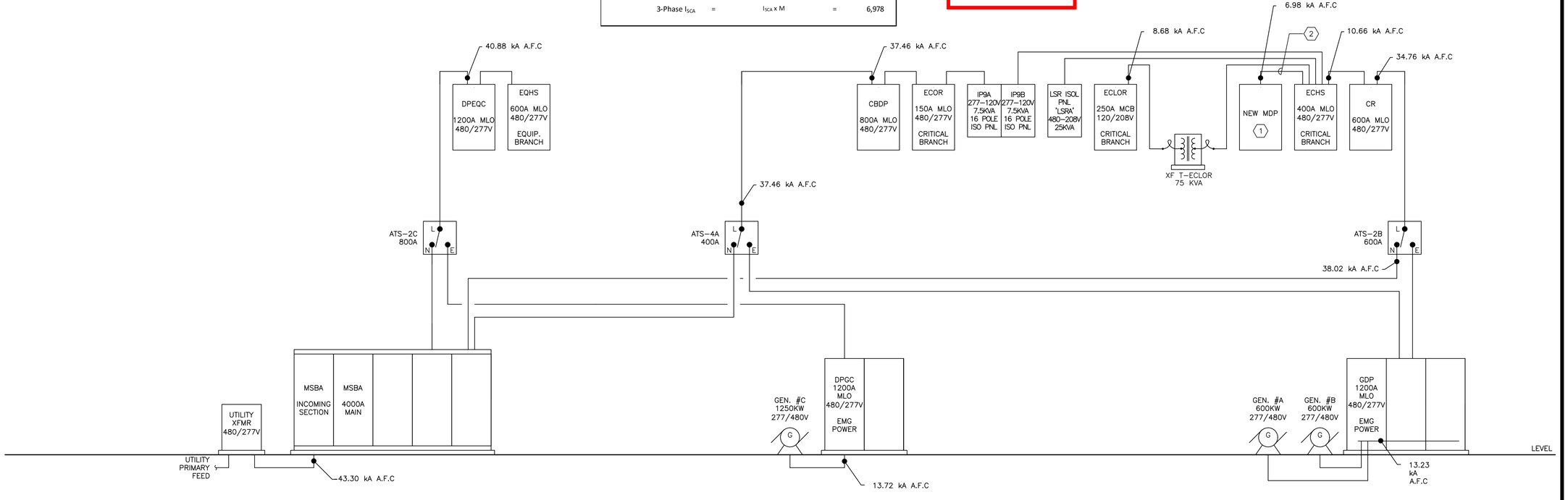
GENERAL NOTES:

1. REFER TO ELECTRICAL GENERAL NOTES AND SYMBOLS ON SHEET E000.
2. REFER TO ELECTRICAL SPECIFICATIONS ON SHEET E001.
3. ALL ELECTRICAL DISTRIBUTION SHOWN IS EXISTING TO REMAIN U.N.O.

KEYED NOTES: (#)

1. MDP FURNISHED BY IMAGING EQUIPMENT VENDOR AND INSTALLED BY EC.
2. PROVIDE NEW FEEDER, 4#1, 1#1G, 1-1/2"C (4)

Provide a Grounding Electrode System bonded To the service equipment enclosure, grounded Conductors, and grounded electrode conductors Per 2020 NEC 250.50 and 250.104



1 ELECTRICAL RISER DIAGRAM
N.T.S.

The Medical Center of Aurora
Health ONE

HYBRID OR 9 / DISCOVERY IGS

MEDICAL CENTER OF AURORA

1501 S. POTOMAC ST.
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COLORADO LICENSED MICHAEL P. THOMPSON 53150 PROFESSIONAL ENGINEER
02/05/2021

PROJECT NO.: 18–22

DRAWN BY: JSC
CHECKED BY: JG
SCALE: AS SHOWN
DATE: 02/10/2020
ISSUED FOR: PERMIT COMMENT RESPONSES
REVISIONS:
1 02/10/2020 PERMIT COMMENT RESPONSES
4 02/05/2021 REVISION 4

SHEET TITLE: ELECTRICAL RISER DIAGRAM

SHEET NO.: E002

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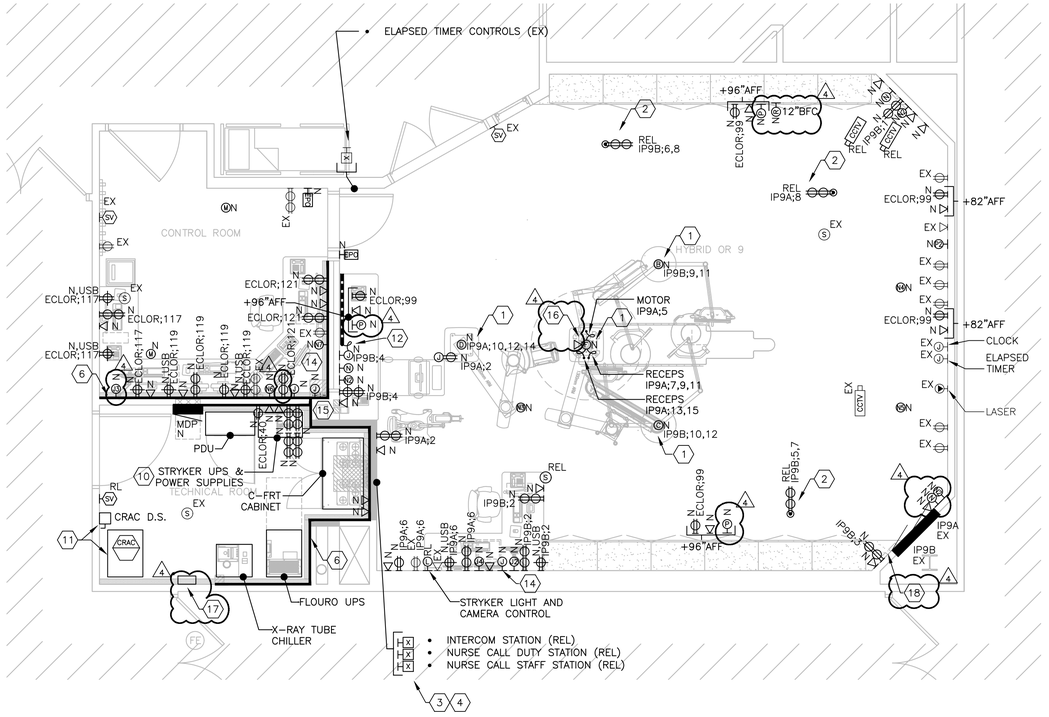
1 ENLARGED OR PLAN - POWER AND SIGNAL

1/4"=1'-0"



STRYKER CONDUIT SCHEDULE		
CONDUIT RUN ITEM - ITEM	CONDUIT QTY	CONDUIT QTY
B - UPS	2	1-1/4"
B - PWR SUP	1	2"
C - UPS	2	1-1/4"
C - PWR SUP	1	2"
D - UPS	2	2"
F - UPS	2	1-1/4"
F - UPS	2	2"
L - PWR SUP	1	3/4"
M - UPS	1	3/4"
N - UPS	1	1-1/4"
N2 - UPS	1	1-1/4"
N3 - UPS	1	1-1/4"
N4 - UPS	1	1-1/4"
N5 - UPS	1	1-1/4"
N6 - UPS	1	2"
N7 - UPS	1	2"
P - UPS	1	1-1/4"
P2 - UPS	1	1-1/4"
R - UPS	1	1-1/4"
J2 - UPS	1	1-1/4"
J3 - UPS	1	1-1/4"

Additional Conduit Runs (Contractor Supplied and Installed)

From	To	Qty	Size In.	Size mm
Cable Management system	CFRT Cabinet	4	4	100
Table	CFRT Cabinet	2	4	100
Bolus Chase	Table	1	2 1/2	64
Water line	Cable Management system	1	3	75
Warning light controller	Warning light	1	1/2	50
Warning light controller	Power distribution unit	1	1/2	50
Warning light controller	120-V 1 phase power	1	As Required	As Required
XR-Buzzer	CFRT Cabinet	1	3/4	19
XR-Buzzer	Control Room	1	3/4	19
Monitor	Control Room	1	2 1/2	64
Large Display Monitor	CFRT Cabinet	1	3 and 3/4	75 and 19
CFRT Cabinet	Tram/PDM	2	3	75
Main Disconnet Panel	20 KVA UPS	2	As Required	As Required
Power distribution unit	Emergency off	1	1/2	50
Power distribution unit	Emergency off	1	1/2	50
Main Disconnect Panel	Power distribution unit	1	1	25
Main Disconnet Panel	480-V 3 phase power	1	As Required	As Required
AW wireless mouse	AW workstation	1	3/4	19
Patient Monitoring	Monitor boom	1	3	75
Patient Monitoring	TRAM/PDM (vendor equip. boom)	2	3	75

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Bobby McKinzie
Date: Mar 16, 2021
2015 INTERNATIONAL CODES & 2020 NEC

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GENERAL NOTES:

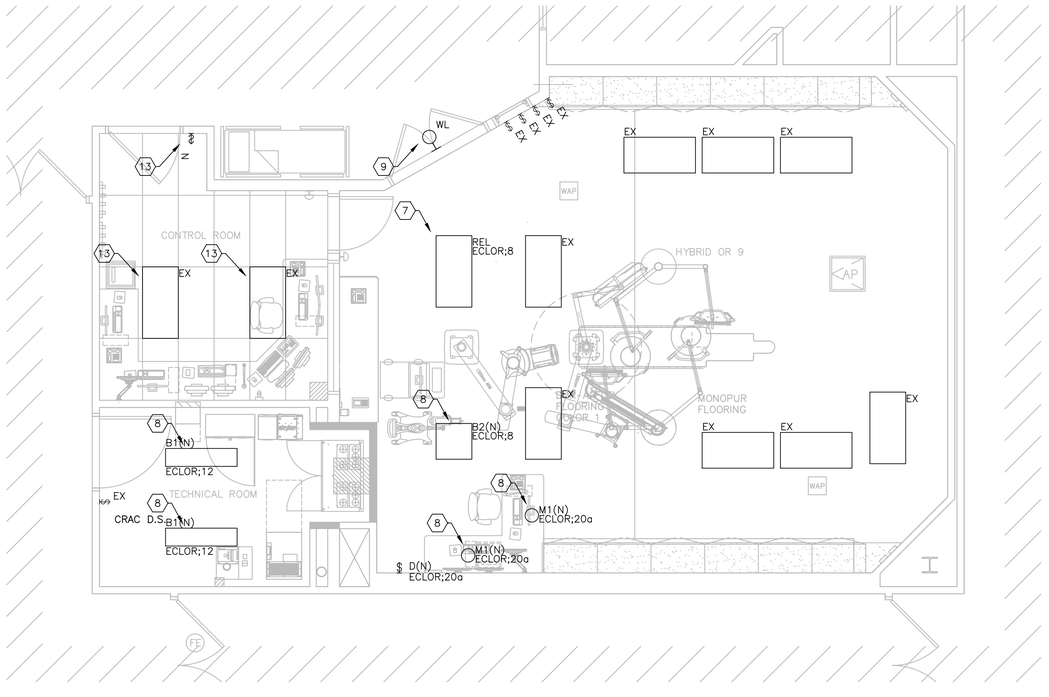
1. REFER TO ELECTRICAL GENERAL NOTES AND SYMBOLS ON SHEET E0.0.
2. REFER TO ELECTRICAL SPECIFICATIONS ON SHEET E0.1.
3. REMOVE AND RE-INSTALL EXISTING CEILING MOUNTED DEVICES AS REQUIRED TO ACCOMMODATE WORK ABOVE CEILING.
4. WIRE NEW ELECTRICAL DEVICES TO INDICATED NORMAL AND CRITICAL BRANCH PANELBOARDS, UNO. CIRCUIT NUMBERS INDICATED DESIGN INTENT ONLY. VERIFY AVAILABLE CIRCUITS IN FIELD.
5. RACEWAY FOR MEDICAL EQUIPMENT SHOWN FOR DESIGN INTENT ONLY. REFER TO MEDICAL EQUIPMENT VENDOR DRAWINGS FOR RACEWAY REQUIREMENTS, DETAILS, AND ADDITIONAL INFORMATION. CONTRACTOR SHALL INSTALL RACEWAY SYSTEMS TO ACCOMMODATE MAXIMUM VENDOR CABLE LENGTHS.
6. CONTRACTOR SHALL INSTALL EMPTY RACEWAY SYTSEM AND EQUIPMENT DESIGNATED AS CONTRACTOR/OWNER PROVIDED ON VENDOR DRAWINGS. CUT AND PATCH WALLS, CEILING, AND FLOOR SLAB FOR INSTALLATION OF NEW CONDUITS.
7. MODIFY EXISTING EQUIPOTENTIAL GROUNDING SYSTEM AS REQUIRED.

KEYED NOTES: (#)

1. EXTEND EXISTING BRANCH CIRCUIT RACEWAY AND PROVIDE NEW BRANCH CIRCUIT CONDUCTORS TO RE-FEED BOOM IN NEW LOCATION. REFER TO STRYKER CONDUIT SCHEDULE.
2. RELOCATE SALVAGED DROP CORD OUTLET ASSEMBLY AND INSTALL IN NEW CEILING. EXTEND EXISTING BRANCH CIRCUIT RACEWAY AND PROVIDE NEW BRANCH CIRCUIT CONDUCTORS TO RE-FEED DROP CORD OUTLET.
3. RELOCATE EXISTING NURSE CALL DEVICES. COORDINATE WIRING REQUIREMENTS WITH EXISTING SYSTEM VENDOR, BEACON COMMUNICATIONS.
4. RELOCATE EXISTING INTERCOM STATION. COORDINATE WIRING REQUIREMENTS WITH EXISTING SYSTEM VENDOR
5. NOT USED
6. SURFACE-MOUNTED WALL DUCT. REFER TO GE DRAWINGS FOR SIZE AND INSTALLATION CRITERIA.
7. EXTEND EXISTING LIGHTING BRANCH CIRCUIT TO NEW LIGHTING FIXTURE LOCATION. PROVIDE NEW TRIM. MAINTAIN EXISTING LIGHTING CONTROLS.
8. RE-WORK EXISTING LIGHTING BRANCH CIRCUIT SERVING ROOM TO NEW LIGHTING FIXTURES. PROVIDE CONTROLS AS INDICATED.
9. PROVIDE 120V, 1PH POWER CONNECTION TO WARNING LIGHT VIA 2#12, 1#12G, 3/4"C FEEDER. CONNECT TO AVAILABLE CIRCUIT IN PANEL ECLOR, PROVIDE NEW 20A/1P CIRCUIT BREAKER AS REQUIRED. PROVIDE CONNECTION TO WARNING LIGHT CONTROL PANEL AND PDU AS REQUIRED, REFER TO GE VENDOR DRAWINGS.
10. PROVIDE (4) QUADRUPLEX RECEPTACLES FOR STRYKER UPS AND POWER SUPPLIES. PROVIDE (2) CIRCUITS FOR EACH QUADRUPLEX FOR A TOTAL OF (8) CIRCUITS. CONNECT CIRCUITS TO PANELBOARD 'ECLOR', USE AVAILABLE CIRCUIT SPACES #110-124 (EVEN NUMBERED). PROVIDE A NEW 20A/1P BREAKER FOR EACH UTILIZED CIRCUIT SPACE. REFER TO STRYKER VENDOR DRAWINGS.
11. PROVIDE POWER CONNECTION TO CRAC UNIT VIA 4#12, 1#12G, 3/4"C FEEDER FROM AVAILABLE CIRCUIT IN PANEL EQHS. PROVIDE NEW 15A/3P CIRCUIT BREAKER IN PANEL EQHS FOR CRAC CIRCUIT. PROVIDE NEW 30A/3P, 600V DISCONNECT SWITCH FOR CRAC UNIT IN TECHNICAL ROOM IN AN ACCESSIBLE LOCATION. REFER TO MECHANICAL SCHEDULES.
12. PROVIDE 4LF SINGLE-CIRCUIT PLUGMOLD WITH SINGLE OUTLETS 12" OC EQUAL TO WIREMOLD #2400 SERIES.
13. REPLACE EXISTING TOGGLE SWITCH WITH 0-10V WALLBOX DIMMER SWITCH. REPLACE EXISTING FLUORESCENT BALLASTS WITH DIMMING BALLASTS. COORDINATE BALLASTS AND DIMMER FOR COMPATIBILITY IN DIMMING DOWN TO 10%.
14. PROVIDE A 6X6 JUNCTION BOX WITH BLANK COVERPLATE WITH BUSHED 3" OPENING AND 3" CONDUIT BETWEEN CONTROL ROOM AND NURSE WORKSTATION. PROVIDE PULLSTRING AND INSULATING BUSHINGS.
15. PROVIDE A 6X6 JUNCTION BOX WITH BLANK COVERPLATE WITH BUSHED 2" OPENING AND 2" CONDUIT TO STRYKER EQUIPMENT BOOM 'D'. PROVIDE PULLSTRING AND INSULATING BUSHINGS.
16. PROVIDE (1) 1"C FROM STRYKER BOOM TO ACCESSIBLE CEILING CAVITY ABOVE CONTROL ROOM. CAP AND LABEL 'FUTURE ETHERNET TO MONITOR BOOM'.
17. PROVIDE 12" X 2" X 1/4" COPPER BUS BAR MOUNTED ON STANDOFFS WITH 1#2, 3/4"C TO GROUNDING ELECTRODE SYSTEM IN ELECTRICAL CLOSET. EXTEND BONDING CONDUCTORS TO METAL RACEWAY SYSTEM SERVING GE AND STRYKER CABLES. DO NOT INTERCONNECT GROUNDING WITH ISOLATED POWER SYSTEM.
18. PROVIDE GROUNDING LUG FOR STATIC DISSIPATIVE FLOORING SYSTEM WITH 1#10, 3/4"C TERMINATED ON GROUNDING BUS IN EQUIPMENT ROOM.

1 ENLARGED OR PLAN - LIGHTING

1/4"=1'-0"



LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	LAMP QUANT	LAMP TYPE/CRI-CT	FIXTURE VOLT	FIXTURE WATTS	MANUFACTURER	ITEM NUMBER	REMARKS
B1	1x4 RECESSED LENSED LED TROFFER WITH 4800 LUMEN PACKAGE	-	LED / 80-4000K	120	30.9	LITHONIA	GTL-4-48L-A12125-LP840	NOTES 1,2,3
B2	2x2 TROFFER WITH HIGH CRI ANTIMICROBIAL PAINT	-	LED / 90-4000K	120	97.0	HEALTHCARE LIGHTING	HSTLED22-F-MVOLT	NOTES 1,2,3
M1	4" SEALED RECESSED SURGICAL LED DOWNLIGHT WITH 1500 LUMEN PACKAGE AND UL WET LOCATION LISTING	-	LED / 90-4000K	120	16.0	LITHONIA	EV04SG-40/15-DFRAMF-SOL-MVOLT-EZ1	NOTES 1,2,3
WL	RECESSED LED 'XRAY IN USE' SIGN	-	LED	120	1.0	LITHONIA	LE-P-W-1-R-120/277-SW16	NOTES 1,2

NOTES:
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2. VERIFY TYPE OF CEILING OR WALL FOR MOUNTING OF LIGHTING FIXTURES PRIOR TO ORDERING.
3. UTILIZE EXISTING POWER CONNECTIONS WHERE PRACTICABLE

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WMA Job# 19119-00

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COLORADO LICENSED MICHAEL P. THOMPSON 53150 PROFESSIONAL ENGINEER
02/05/2021

PROJECT NO.: 18-22

DRAWN BY:
CHECKED BY:
SCALE: AS SHOWN
DATE: 10/25/2019
ISSUED FOR: CONSTRUCTION
REVISIONS:
2 12/11/2020
4 02/05/2021 REVISION 4

SHEET TITLE:
ENLARGED PLAN ELECTRICAL

SHEET NO.:
E101

ALL INFORMATION IN THIS DRAWING SET IS PRELIMINARY, SUBJECT TO CHANGE!

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

REV	DATE	MODIFICATIONS
A	03/Mar/2021	Final drawing based on DC-257086

01 - C1 - Cover Sheet
02 - C2 - Disclaimer - Site Readiness
03 - A1 - General Notes
04 - A2 - Equipment Layout
05 - A3 - Movement Layout
06 - A4- Section Views
07 - A5 - Equipment Details (1)
08 - A6 - Equipment Details (2)
09 - A7 - Delivery
10 - S1 - Structural Notes
11 - S2 - Structural Layout
12 - S3 - Structural Details (1)
13 - S4 - Structural Details (2)
14 - S5 - Structural Details (3)
15 - M1 - HVAC
16 - E1 - Electrical Notes
17 - E2 - Electrical Layout
18 - E3 - Electrical Elevations
19 - E4 - Electrical Details
20 - E5 - Power Requirements
21 - E6 - Interconnections
22 - E7 - Light Signaling (1)

5

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.
Pre Installation documents for GE Healthcare products can be accessed on the web at: www.gehealthcare.com/siteplanning

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Medical Center of Aurora
Aurora, Colorado
USA

GE Healthcare

Tony Schrader
720-467-4290
Tony.schrader@ge.com

ALLIA IGS 730/740 WITH AUTORIGHT FINAL STUDY

Drawn by	Verified by	Concession	S.O. (GON)	PIM Manual	Rev
ENW	JJL	-	2007703103.1	5847738-8EN	5

Format	Scale	File Name	Date	Sheet
A3	1/4"=1'-0"	IGS-M118450-FIN-04-A.DWG	03/Mar/2021	01/24

DISCLAIMER

GENERAL SPECIFICATIONS

- GE 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 GE 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 GE, 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. GE 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 GE 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 GE 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 GE. 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 GE 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 structrual 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. GE does not take responsibility for the specification or provision of radio-protection.

ALL DETAILS OF EQUIPMENT AND TECHNICAL DATA ARE SUBJECT TO CHANGE.

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

GLOBAL SITE READINESS CHECKLIST (DI)

DOC1809666 Rev. 7

Site Ready Checks at Installation
EHS Site Requirements
Overall access route to the scan room free from obstruction / high hazards.
Enough space to store tools, equipment, parts, install waste and the general area free from obstruction and trip hazards.
Enough necessary facilities for the GE employees available.
No 3rd parties working in the area that may affect the safety of the installation activity.
Area free from any chemical, gas, dust, welding fume exposure and has painting been completed and dry.
All emergency routes identified, signed and clear from obstruction.
Accessible single source lockable panel that LOTO can be applied to for GE equipment installation (MDP and/or PDU).
There are no other conditions or hazards that you have observed or have been made aware of by the customer or contractors on site.
Required for Mechanical Install start
Room dimensions, including ceiling height, for all Exam, Equipment/Technical & Control rooms meets GE specifications.
Ceiling support structure, if indicated on the GE drawing, is in the correct location and at the correct height according to the Original Equipment Manufacturer specifications.
Levelness and spacing has been measured, and is ready for the installation of any GE supplied components.
Overhead support Structure (unistrut) has been confirmed with customer/contractor to meet required GE provided criteria.
Finished ceiling is installed. If applicable ceiling tiles installed per PMI discretion.
Floor levelness/flatness is measured and within tolerance, and there are no visible defects per GEHC specifications.
Entry door threshold meets PIM requirement
Floor Strength and thickness have been discussed with customer/contractor and they have confirmed GE requirements are met.
Rooms that will contain equipment, including staging areas if applicable, are construction debris free. Precautions must be taken to prevent debris from entering rooms containing equipment.
Cable ways (floor/wall/ceiling/Access Flooring) are available for installation of GE cables are of correct length and diameter.
Cable ways routes per GE Final drawings and cable access openings areas installed at a time determined by GEHC PM. Surface floor duct can be installed at time of system installation.
Adequate room illumination installed and working.
Customer supplied countertops where GE equipment will be installed are in place.
Vascular baseplates preparation complete per GE requirements.
For IGS 730/740: Floor finish is according to the GE Specifications and protection is installed . Specifications for concrete substrate & Monopur 7 mm flooring have been met. Table baseplate installed and flush to the finished floor.
For IGS 730/740: Room Interventional Reference Point (RIRP) value has been defined with the customer. Either 1120mm, 1278 mm or 1508 mm.
Ensure that all third party suppliers are identified and have been informed about the project dates and how they need to proceed in accordance with their needs for interfacing to our equipment.
Required for Calibration start
HVAC systems Installed, and the site meets minimum environmental operational system requirements.
System power & grounding (PDB/MDP) is available as per GE specifications.
System power & grounding (PDB/MDP) is installed at point of final connection and ready to use. Lock Out Tag Out is available.
PMI to confirm all feeder wires and breaker are size appropriately. EPO installed if needed.
PMI to confirm with electrician all power and signal cables are well terminated ensuring there are no loose connections.
Network outlets installed.
Computer network available and working.
Lead doors and windows complete or scheduled to be installed. If applicable, radiation protection (shielding) finished & radioprotection regulatory approval for installation obtained.

Note: The details shown here are only an extract from DOC1809666. For the complete document please contact your PMI.

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

5

CONNECTIVITY REQUIREMENTS

Service Connectivity for new systems will be based on the Insite-RSvP Platform which allows to configure a direct Internet connection to the RSvP Server (routers/VPN tunnel no more mandatory). Communication with the RSvP server will be outbound only and require using Transport Layer Security (TLS) over TCP port 443. This is commonly known as an HTTPS (HTTP-Secure) connection.

There will be several ways to connect the system to the RSvP Enterprise Server. See below the main options that might not be all available or authorized at your site depending on actual network constraints or local regulations.:

- The system allows for DNS configuration or proxy server-based connection to the Internet.
- Connection thru a GE Proxy will be possible in the future.
- In the case the customer does not accept the above connection protocol or regulatory reasons prevent using these types of configurations, the local/regional connectivity teams can provide help to connect through SSL/TLS proxy IP over the site-to-site VPN.

To make the system connectivity operational before the system installation is finished, ensure the connectivity solution is defined as early as possible during the pre-installation process and proper information are exchanged between the customer Network Administrators and GEHC Sales and/or Service representatives.

For more information please refer to the latest version of the Pre Installation Manual.

ELECTROMAGNETIC INTERFERENCE

The IGS System is intended for use in the electromagnetic environment specified below.
The Customer or the user of the System should assure that it is used in such an environment.

EMISSIONS	TEST COMPLIANCE	ELECTROMAGNETIC ENVIRONMENT
Radio–Frequency Emissions CISPR11	Group1 Class A limits	The IGS System uses Radio Frequency energy only for its internal function.Therefore, its Radio Frequency emissions are very low and are not likely to cause any interference in nearby electronic equipment.
		The IGS System is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000–3–2	Not applicable	The IGS System is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Voltage fluctuations/ flicker emissions IEC 61000–3–3	Not applicable	The IGS System is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.

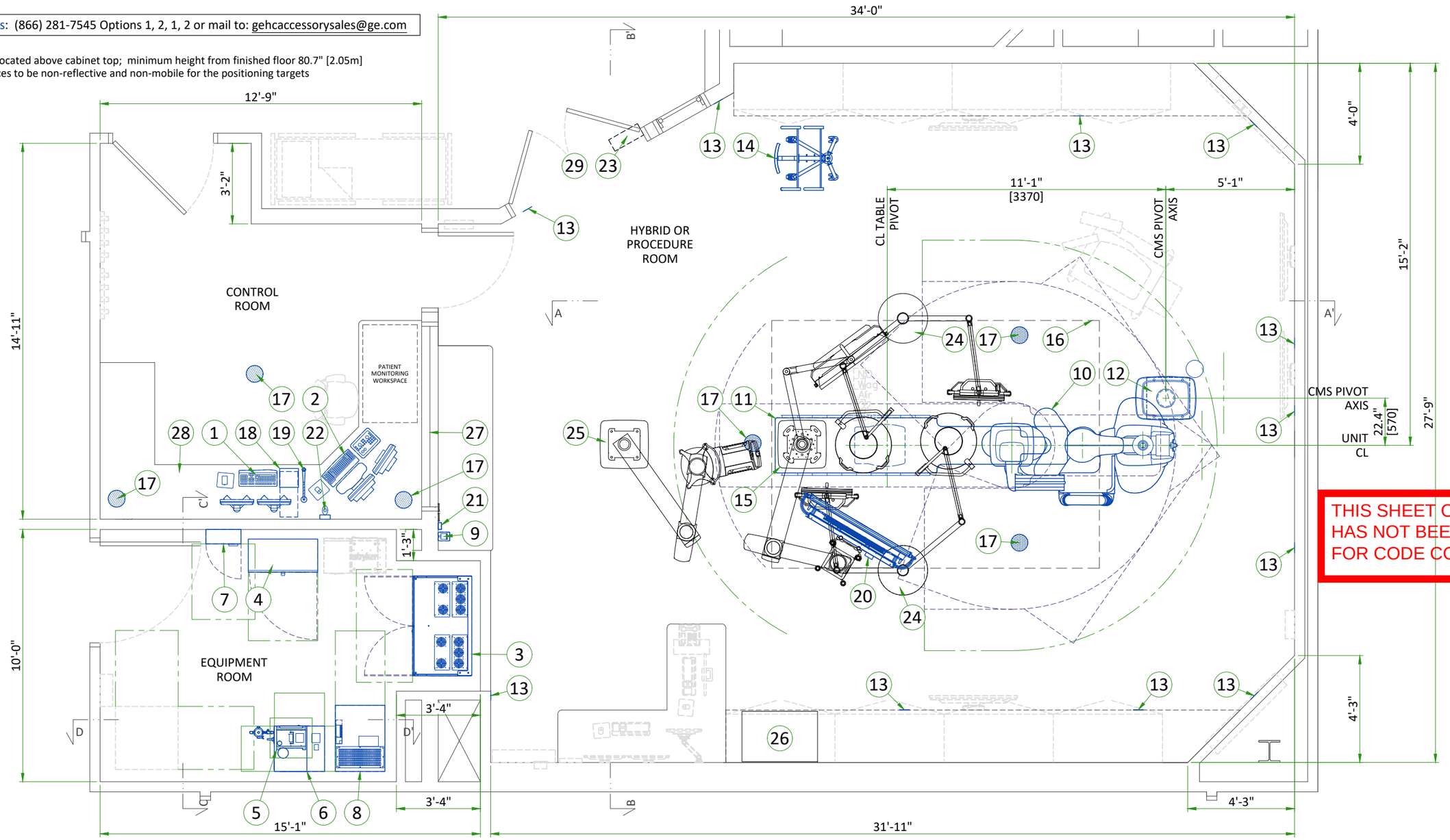
CUSTOMER SITE READINESS REQUIREMENTS

- 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. Capability for image analysis,
  4. Restrooms.
- Provide for refuse removal and disposal (e.g. crates, cartons, packing)
- 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 preinstallation manual for the vibration specification.

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

For Accessory Sales: (866) 281-7545 Options 1, 2, 1, 2 or mail to: gehcaccessorysales@ge.com

Note:
- Reflectors to be located above cabinet top; minimum height from finished floor 80.7" [2.05m]
- Ensure the surfaces to be non-reflective and non-mobile for the positioning targets



THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

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)	WEIGHT (lbs)	MAX HEAT OUTPUT (W)	WEIGHT (kg)
A	1	Advantage workstation	2019	22	590	10
A	2	Operator console	341	19.6	100	9
A	3	C-FRT Cabinet	7370	1230	2160	558
A	4	System Interface Cabinet (PDU)	1365	628	400	285
A	5	Detector conditioner	717	32	210	14.5
A	6	COOLIX 4100 tube chiller	23646	265	6930	120
B	7	Main disconnect panel (MDP)	-	49	-	22
A	8	20kVA Fluoro UPS UL	6756	1169	1980	530
A	9	Xray buzzer	-	1	-	0.5
A	10	Gantry	5528	2204	1620	1000
A	11	Tilting table	-	2242	-	1017
A	12	Cable management system (CMS)	-	-	-	-
A	13	Positioning targets (x11)	-	-	-	-
A	14	Tableside cart	-	-	-	-
A	15	Large Display Monitor with two backup monitors on Vendor Boom	341	171	100	78
D	16	Laminar air flow area (to be defined)	-	-	-	-
B	17	Vitalinq speaker	-	-	-	-
B	18	Vitalinq console	-	-	-	-
B	19	Vitalinq microphone (Control Room)	-	-	-	-
B	20	Vitalinq microphone (Exam Room)	-	-	-	-

A	21	AW Mouse interface box	-	-	-	-
A	22	Bolus chase handswitch	-	2	-	1
B	23	Light Signaling Control Box	-	26	-	12
C	24	Vendor Boom with RAD shield and lamp				
C	25	Vendor Equipment Boom				
C	26	Storage Cabinet				
C	27	Control wall to ceiling with lead glass viewing window.				
C	28	Counter top for equipment- provide grommeted openings as required to route cables				
C	29	Minimum door opening for equipment delivery is 50.4 in. w x 87 in. h [1280mm x 2200mm], contingent on a 96 in. [2438mm] corridor width				

EXAM ROOM HEIGHT	
FINISHED FLOOR TO SLAB HEIGHT	T.B.D.
FALSE CEILING HEIGHT	9'-6"

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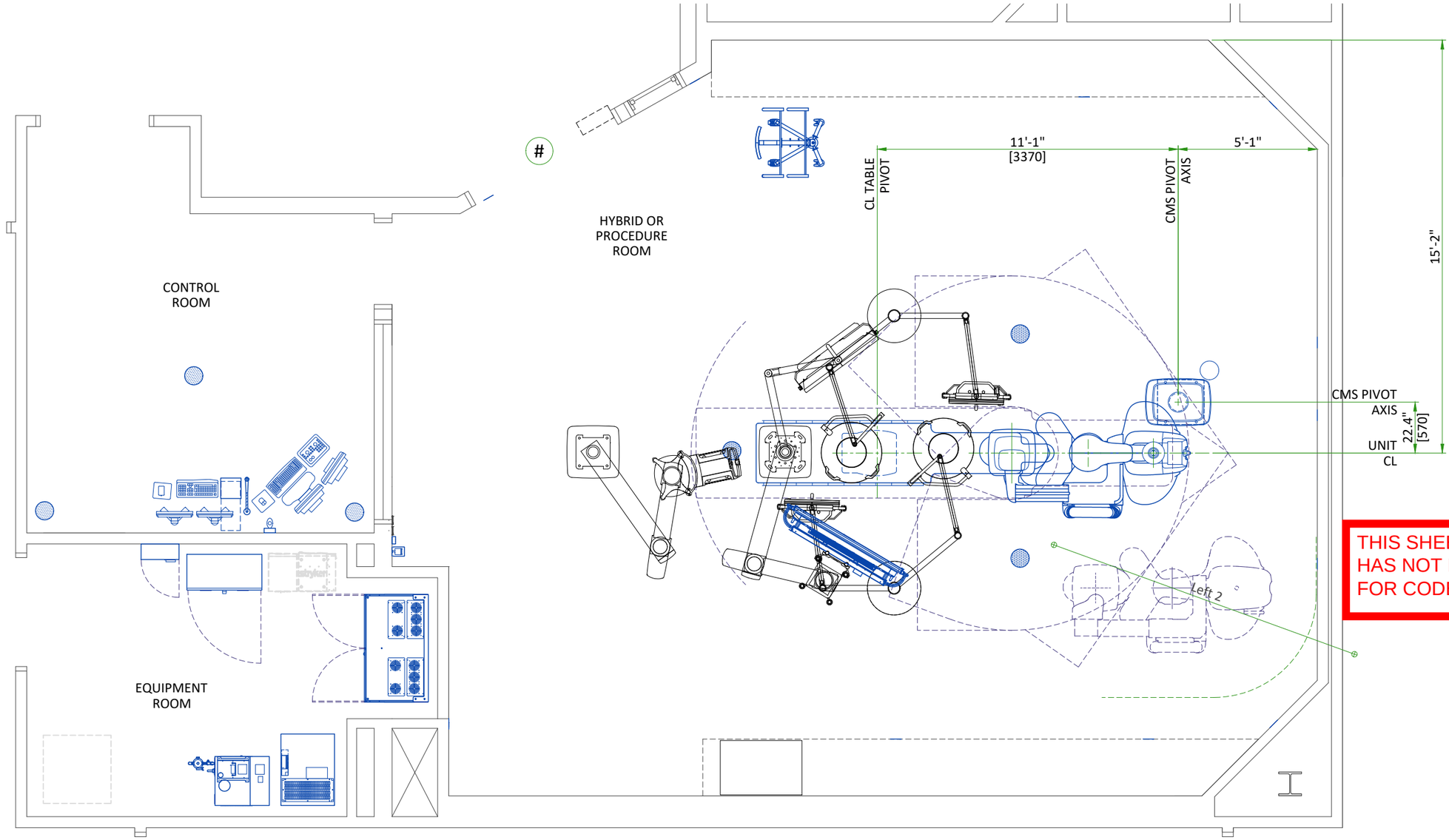

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

MOVEMENT LAYOUT

PARKING POSITIONS

NAME	RIRP* 1508		FEASIBLE DISTANCE	PROPOSED
	min	max		
Park Head 1	500	3930		NO
Park Left 2	500	4080		YES
Park Left 3	500	2690		NO
Park Left 4	500	1340		NO
Park Right 2	500	3680		NO
Park Right 3	500	3140		NO
Park Right 4	500	2490		NO
A maximum of two parking positions can be selected.				

BACKOUT POSITIONS

TYPE	NAME	RIRP* 1508		TYPICAL
		min	max	
Backouts	**Head Long**	500	4310	1200
	Head Left	500	2700	2700
	Head Right	500	3600	2700
	Left Lat	500	1400	900
	Left Feet	500	1100	900
	Left 1	500	4310	1200
	Right Lat	500	2400	900
	Right Feet	500	2100	900
	Right 1	500	4310	1200
Arm backouts	**Left Inter**	500	3500	-
	Right Inter	500	800	-
	Left Swivel	500	900	-
	Right Swivel	500	1700	-
* RIRP: Room Interventional Reference Point				

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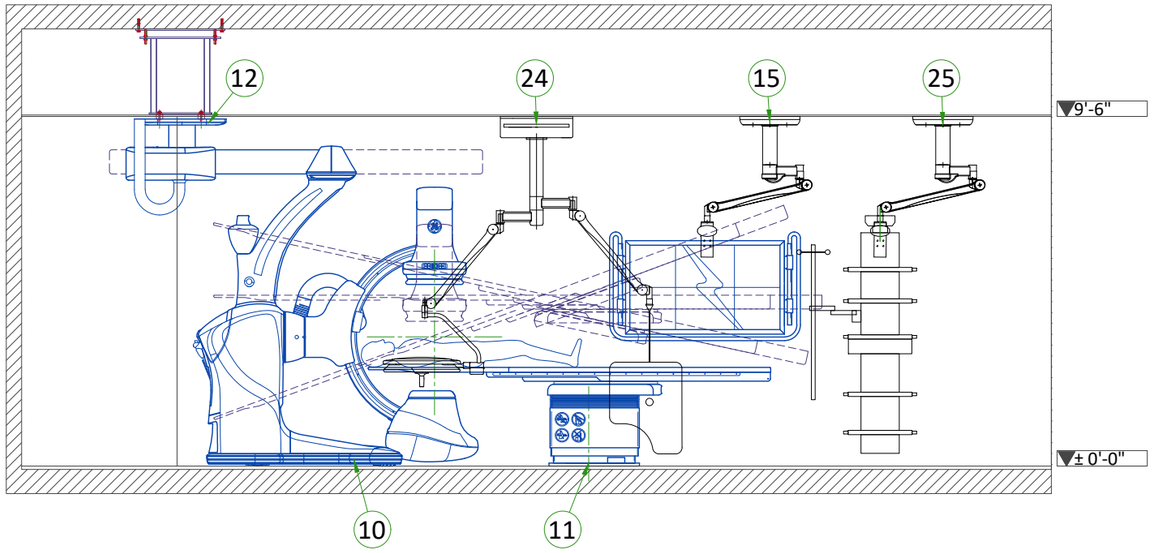
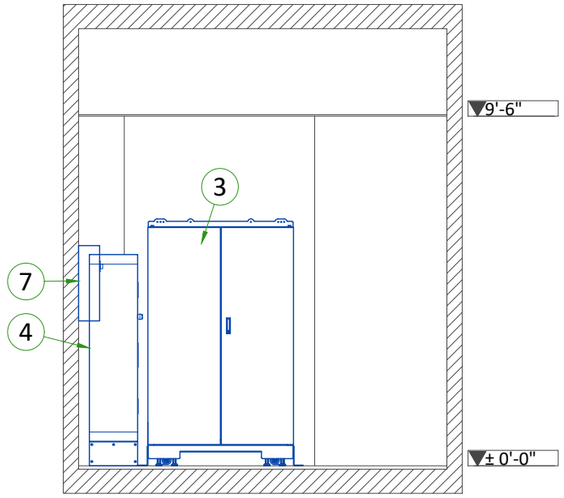
EXAM ROOM VIEW

SECTION A-A'



TECHNICAL ROOM VIEW

SECTION C-C'



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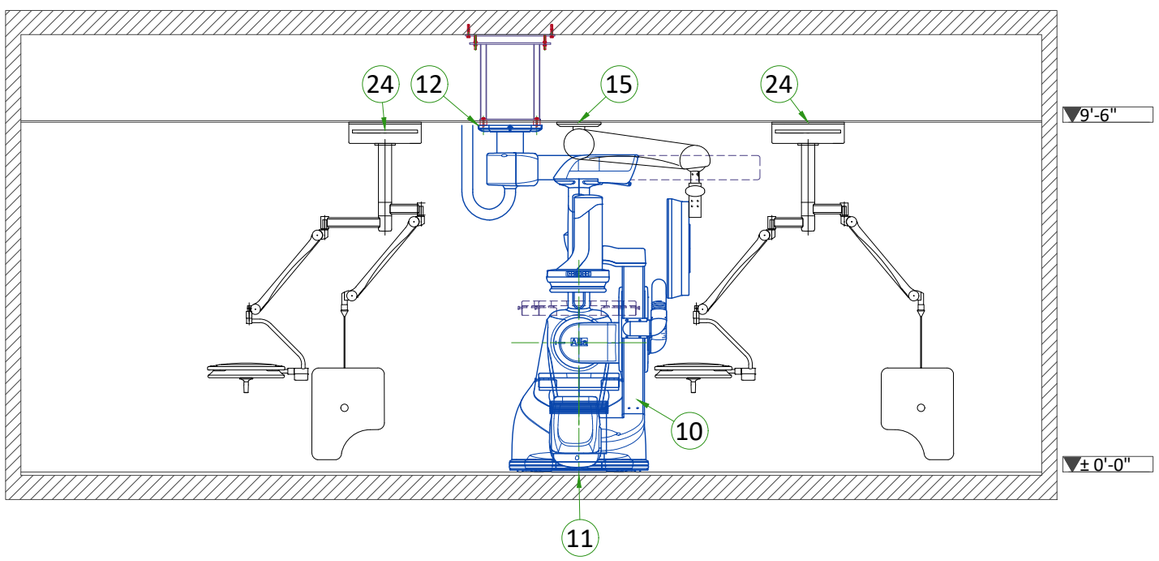
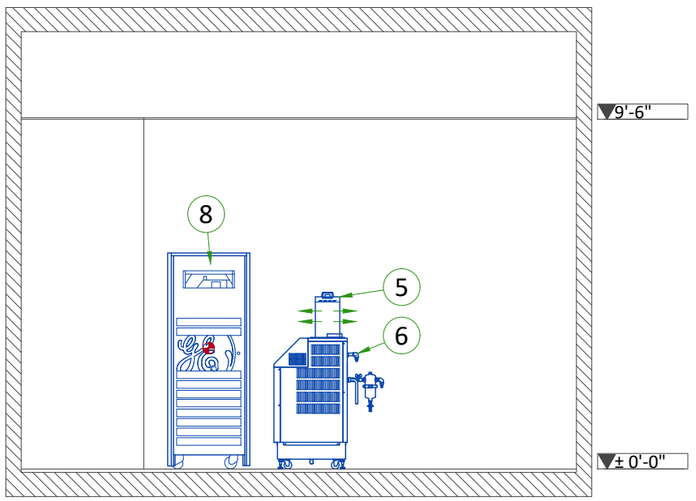
EXAM ROOM VIEW

SECTION B-B'



TECHNICAL ROOM VIEW

SECTION D-D'



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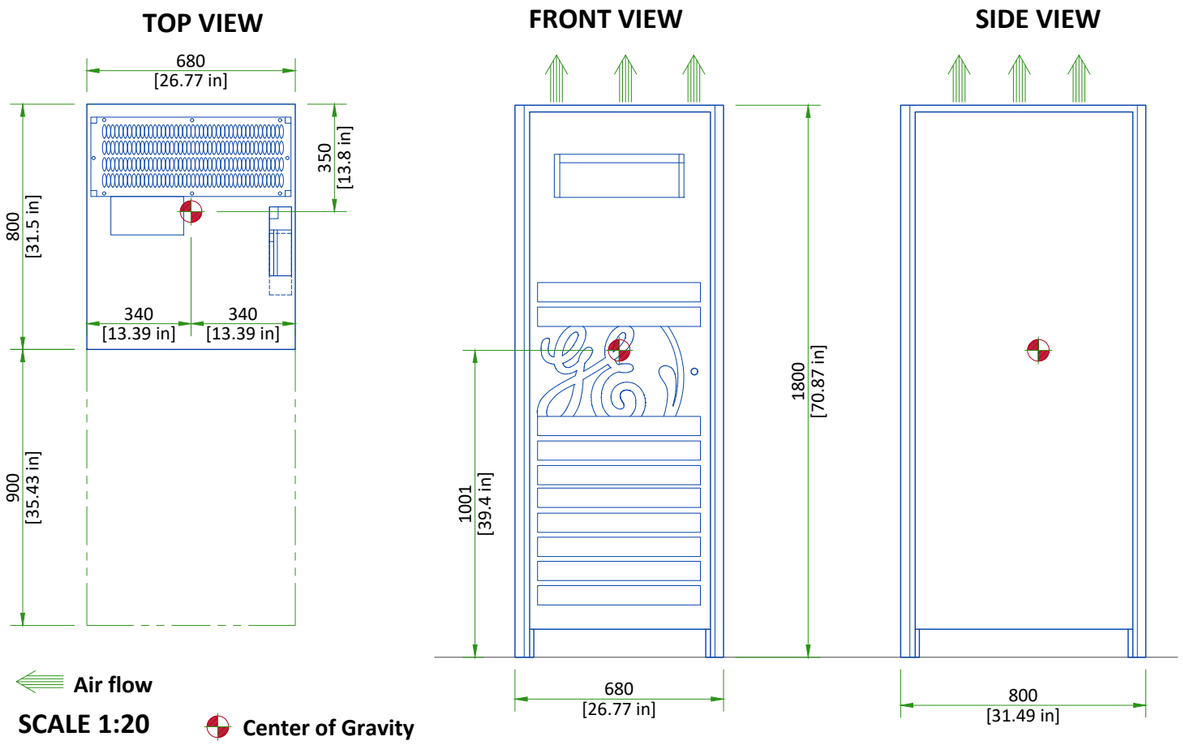
20kVA FLURO UPS

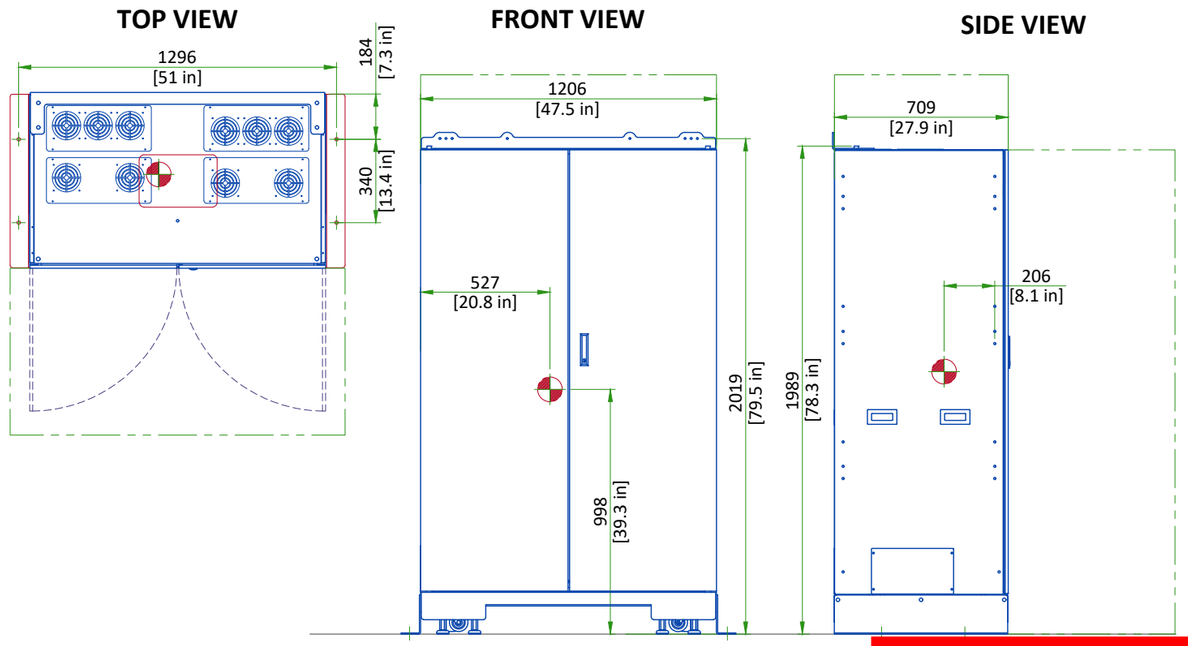


Air flow

Center of Gravity

SCALE 1:20

C-FRT CABINET



Center of Gravity

SCALE 1:25

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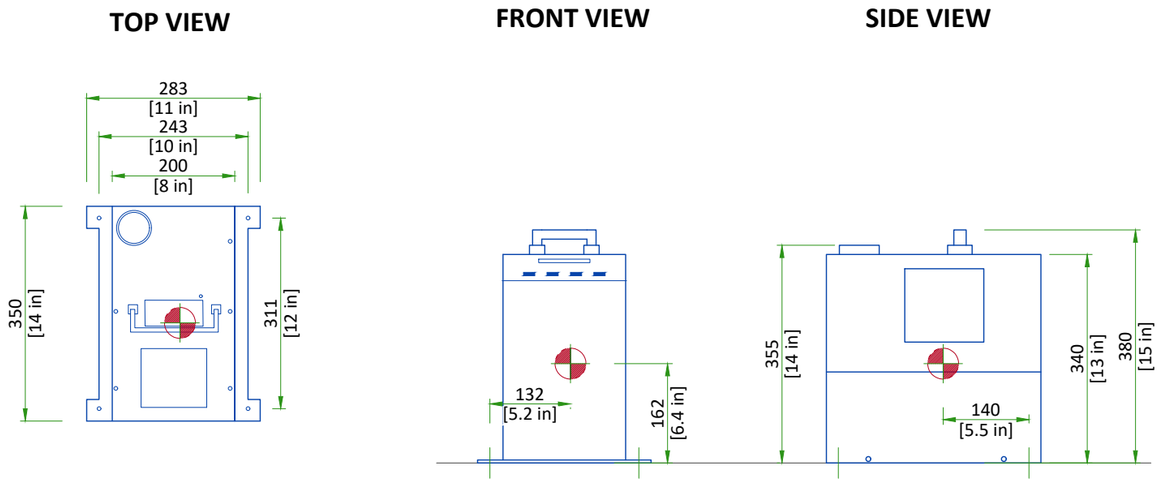
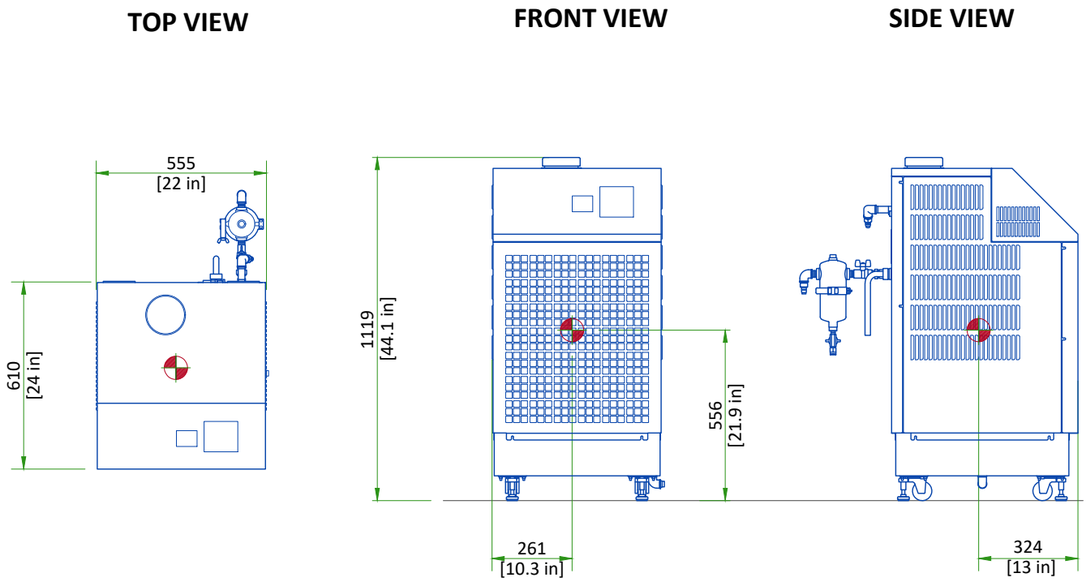
DETECTOR CONDITIONER



Center of Gravity

Scale 1:10

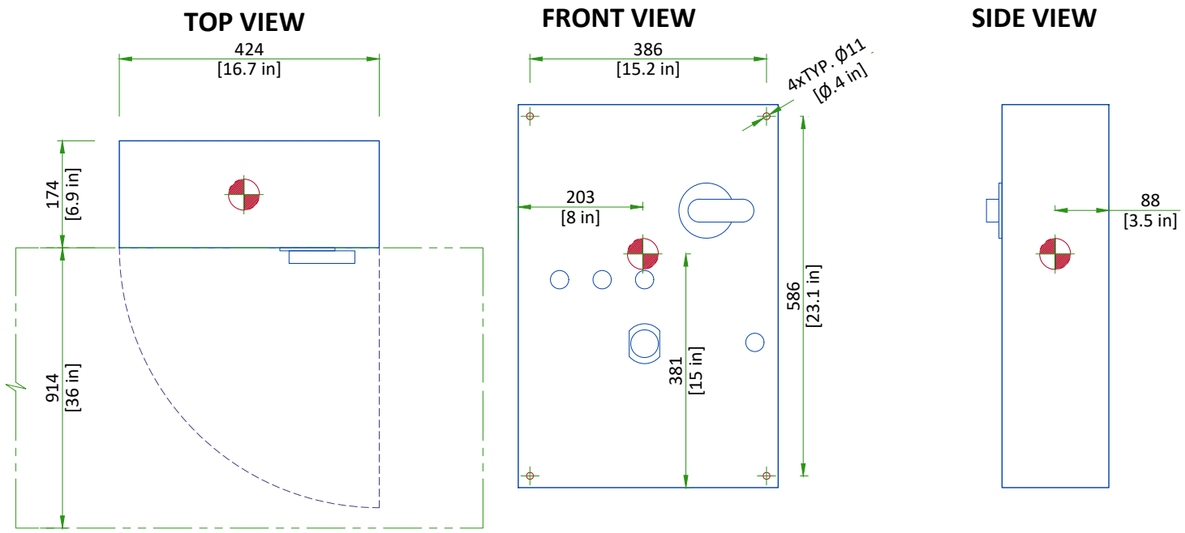
X-RAY TUBE CHILLER



Center of Gravity

Scale 1:20

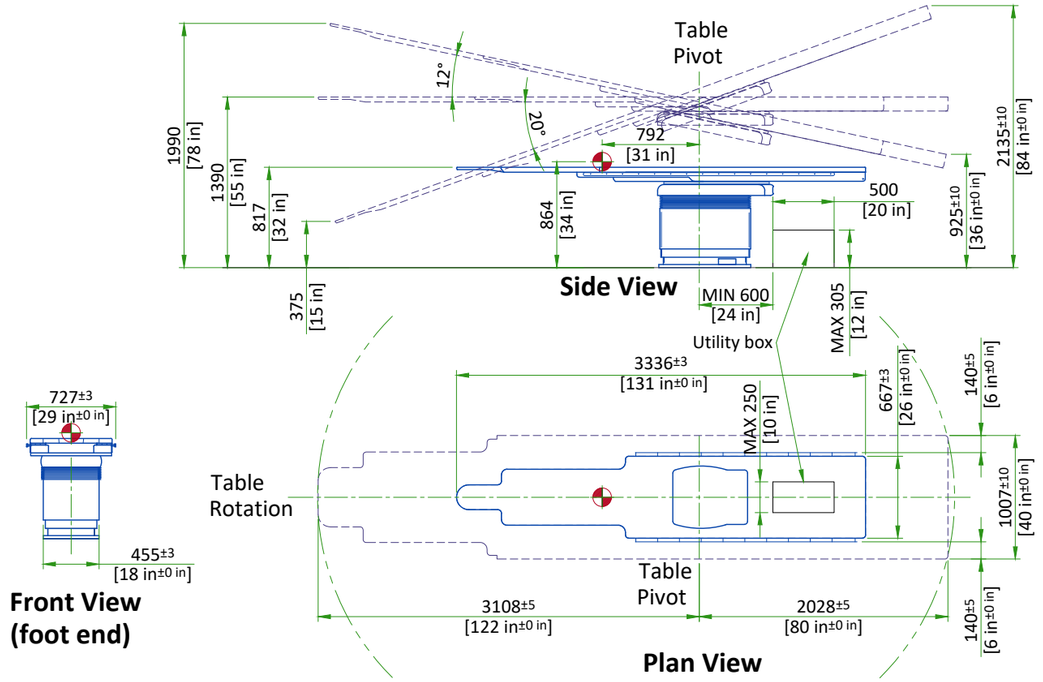
MAIN DISCONNECT PANEL



Center of Gravity

Scale 1:10

PATIENT TABLE

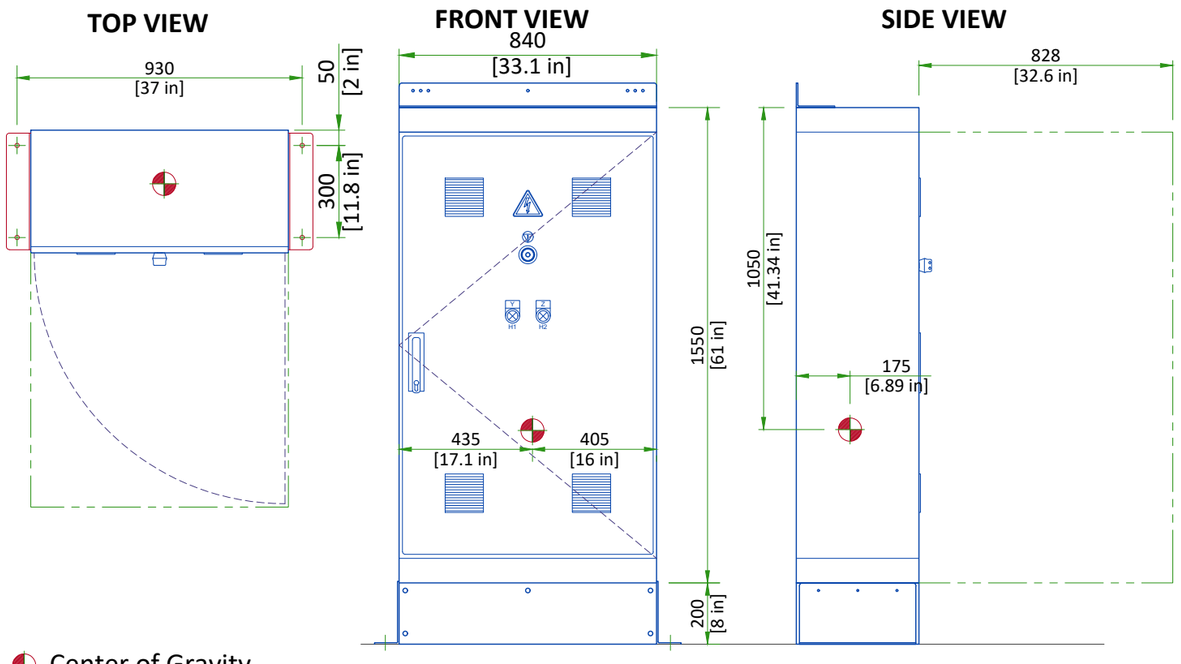


Center of Gravity

Scale 1:50

The Utility box under the table is not recommended for the surgical configuration.
It is forbidden to place or install objects under the head end of the table that could interfere with AGV motion.

NPA PDU



Center of Gravity

Scale 1:20

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DELIVERY

THE CUSTOMER/CONTRACTOR SHOULD:

- Provide an area adjacent to the installation site for delivery and unloading of the GE equipment.
- Ensure that the dimensions of all doors, corridors, ceiling heights are sufficient to accommodate the movement of GE 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.

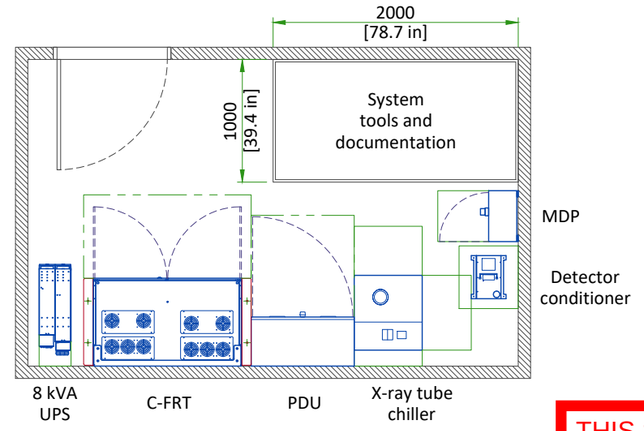
DIMENSIONS OF DELIVERY

EQUIPMENT	DIMENSIONS			WEIGHT	
GANTRY (SHIPPING DOLLY) (TBC)	LENGTH	2890 mm	113.7 in	1100 kg	2425 lb
	WIDTH	1410 mm	55.5 in		
	HEIGHT	2060 mm	81.1 in		
TILTING TABLE (ON PALLET)	LENGTH	2150 mm	84.6 in	700 kg	1534 lb
	WIDTH	1000 mm	39.4 in		
	HEIGHT	1160 mm	45.7 in		
CMS PALLET ASSEMBLY (WITHOUT SHIPMENT PACKAGING)	LENGTH	1812 mm	71.3 in	-	-
	WIDTH	923 mm	36.3 in		
	HEIGHT	1465 mm	57.7 in		
C-FRT CABINET (ON PALLET)	LENGTH	850 mm	34 in	632 kg	1393 lb
	WIDTH	1500 mm	59 in		
	HEIGHT	2200 mm	87 in		

RECOMMENDED AREA IN THE TECHNICAL ROOM

THE TECHNICAL ROOM NEED EXTRA SPACE FOR TOOLS AND DOCUMENTATION

- GE recommend an extra area of 2.0 x 1.0 m (78.7 x 39.4 in) for storage of tools and documentation for the system
- This area doesn't need to be inside the technical room, but in a closer space from the system



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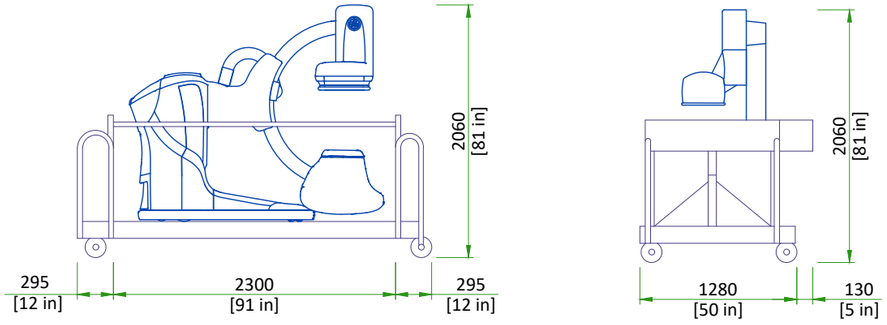
SHIPPING DOLLY FOR DISCOVERY GANTRY

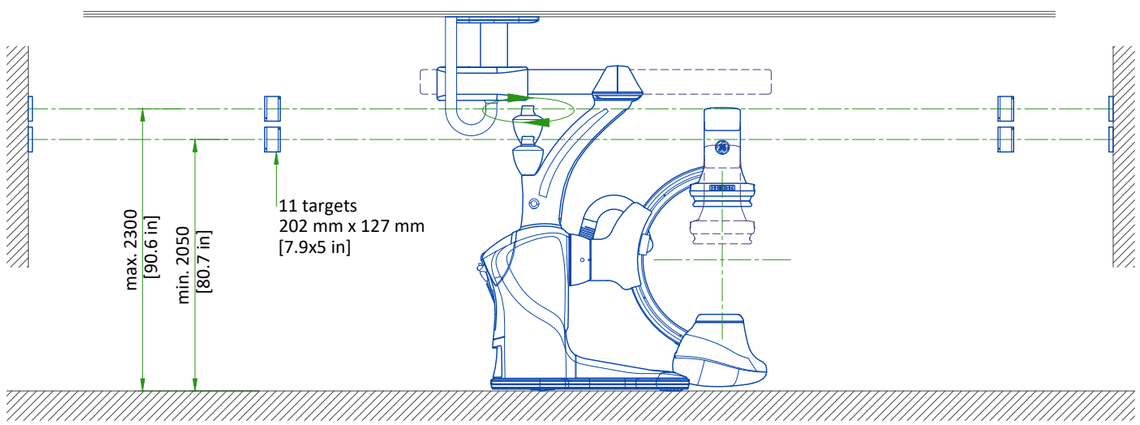
DATA TO BE CONFIRMED



DIMENSIONS

	HEIGHT	WIDTH	LENGTH
Full configuration	2060 mm [81.1 in]	1410 mm [55.5 in]	2890 mm [113.7 in]
Left top handle removed and right top handle inside	2060 mm [81.1 in]	1280 mm [50.4 in]	2890 mm [113.7 in]
Short lifts configuration	2120 mm [83.5 in]	1280 mm [50.4 in]	2300 mm [90.5 in]
No dolly configuration	2000 mm [78.7 in]	1260 mm [49.6 in]	2150 mm [84.6 in]
NOTE	Dolly can be removed to facilitate movement of Discovery gantry in the hospital only. However, if moving the gantry without shipping dolly, there is a risk of damaging the floor surface.		

POSITIONING TARGETS



NOTE
The minimum distance between two targets is 400 mm [15.7 in] center to center.
The maximum angle between two adjacent targets is 70°.
The targets are mounted at the time of the gantry installation.
Targets should be visible to the laser source of the AGV:

- Shouldn't be mounted on movable surface (door, window, etc.).
- Shouldn't be mounted on a surface that could be hidden in operation by door or movable component.
- Shouldn't be mounted on or near a reflective surface.

STRUCTURAL NOTES

- All steel work and parts necessary to support ceiling mounted tube hanger or other equipment are to be supplied by the customer or his contractors. The structural support should run continuous with no fittings extending below face of structural support channel, run wall to wall, be parallel, square and in the same horizontal plane flush with finished ceiling. The system is to be cross braced vertically, horizontally and diagonally to allow no movement and a maximum of 1,58mm (1/16") deflection. 12,7mm (1/2") dia. X 38,1mm (1 1/2") long bolts with unistrut 12,7mm (1/2") nuts with springs are to be provided by customer or his contractors for each stationary and auxillary support rail. Closure strips shall be provided for areas of unistrut exposed and without mounting units.
- 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 and detail sheets for suggested locations and mounting hole locations.
- All ceiling mounted fixtures, air vents, sprinklers, etc. To be flush mounted, or shall not extend more than 6,35mm (1/4") below the finished ceiling.
- Control walls with tube hanger passage above shall be constructed to 2130mm (7'-0") high.
- Floor slabs on which equipment is to be installed must be level to 3,17mm (1/8") in 3050mm (10'-0")
- 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"

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

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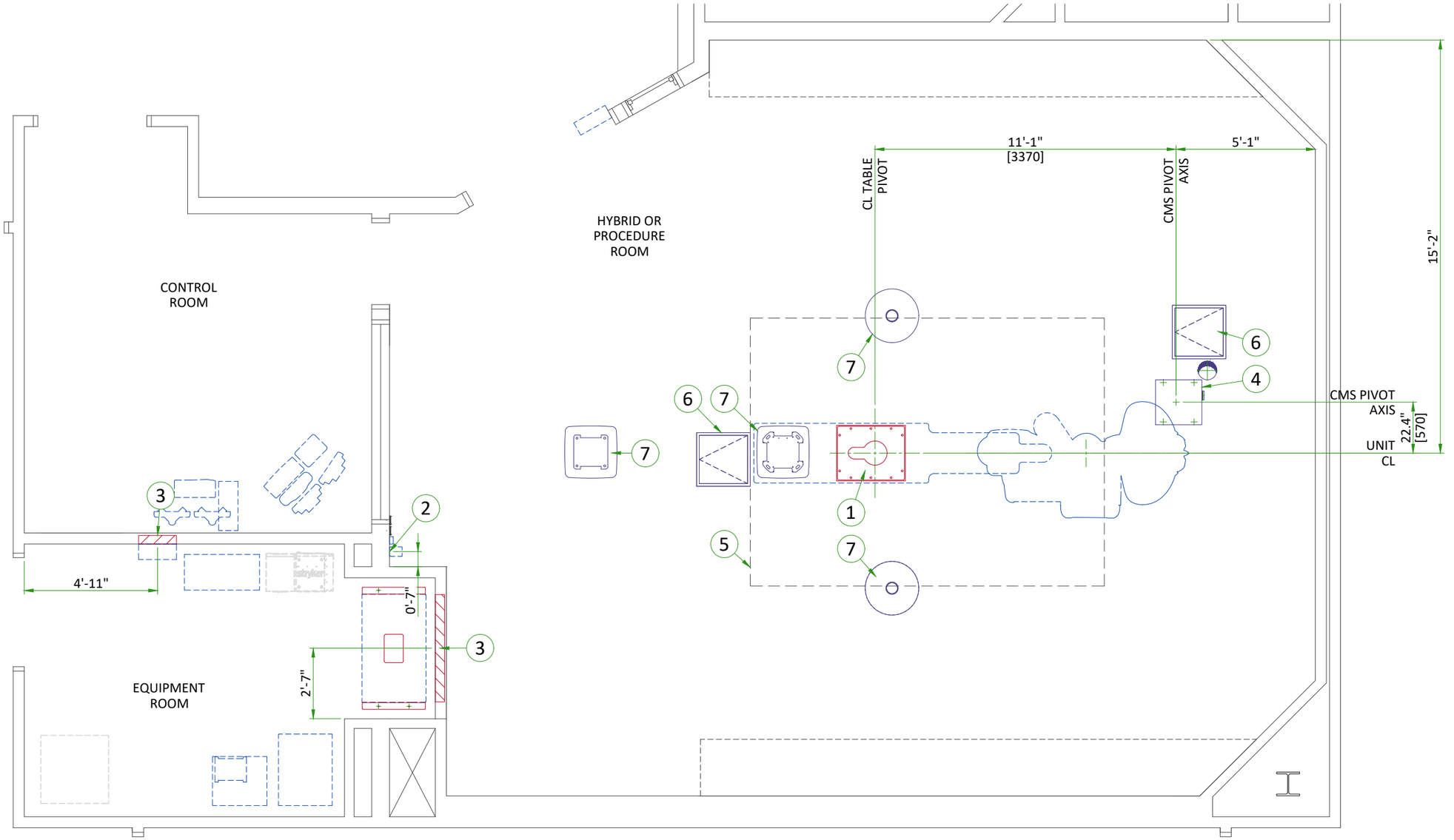


STRUCTURAL LAYOUT ITEM LIST

	(GE SUPPLIED / CONTRACTOR INSTALLED)
1	Area occupied by GE supplied table baseplate
2	Mount X-Ray buzzer bracket on wall above ceiling
	(CUSTOMER SUPPLIED / CONTRACTOR INSTALLED)
3	Support backing, locate as shown.
4	Customer supplied plate (520x502 [20.5"x19.8"])
5	Laminar air flow area (to be defined)
6	600 x 600 [24" x 24"] Service access in ceiling
7	Structural support in ceiling for vendor booms

IF ACCESS IS NOT READILY AVAILABLE IT IS RECOMMENDED TO PROVIDE A TRAPDOOR IN THE CEILING TO ALLOW SERVICE ACCESS FOR CABLE MANAGEMENT.

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

5

EXAM ROOM FLOOR SPECIFICATION

IMPORTANT

The Allia IGS system is compatible with a floor in vinyl, which consists in **Self-Levelling Underlayment (SLU) + Flooring adhesive (glue) + Vinyl**

- (Bare) Floor preparation and vinyl flooring application falls under Customer's responsibility
- Application of each product (SLU, glue, vinyl sheet) must be done as per product Manufacturer's recommendations
- Finished Vinyl floor must be protected by Contractor. These protections will maintain floor integrity and allow heavy load traffic during system delivery and install
- Control reports must be provided by Contractor and archived by PMI for all Acceptance specifications of Tables 1, 2, 3

SUBSTRATE CONCRETE/SUBFLOOR

Table 1. FLOOR ACCEPTANCE FOR SUBSTRATE (before vinyl flooring system)	
PULL-OFF STRENGTH (i.e. Elcometer Adhesion tester)	**> 1.5 MPa [> 218 PSI]**
HARDNESS (i.e. Schmidt Hammer Sclerometer)	**> 20 MPa [> 3000 PSI]**

SLU SPECIFICATION:

- Compressive strength > 20 MPa , or Class >C20 (> 3000 PSI)

Table 2. FLOOR ACCEPTANCE FOR SLU (before vinyl application)	
PULL-OFF STRENGTH (i.e. Elcometer Adhesion tester)	**> 1.5 MPa [> 218 PSI]**
HARDNESS (i.e. Schmidt Hammer Sclerometer)	**> 20 MPa [> 3000 PSI]**
SLU THICKNESS on the whole surface until 1m from the walls	**> 3 mm [> 1/8 in]**
LEVELNESS on the whole surface until 1m from the walls	**< 1 mm/m [< 1/8 in over 10 ft]**
FLATNESS on the whole surface until 1m from the walls	**< 6 mm under 2 m straightedge [< 1/4 in under 10 ft straightedge]**

FLOORING ADHESIVE:

- It must be one of those recommended by the Vinyl manufacturer for heavy load (ie hospital beds, heavy traffic)
- For conductive floor (if required by Customer), copper strips can be added In this layer, they should not cross Allia IGS traffic area – for example, they can be located close to the walls

VINYL:

- Seams processed as per Manufacturer recommendations
- No specific requirement on seams position
- Avoid cross seams as much as possible

List of Vinyl reference to use :

- Medintone (Armstrong)
- Biospec MD (Mannington)
- IQ Toro (Tarkett)
- IQ Optima (Tarkett)
- Acczent Excellence 4 (Tarkett)
- Mipolam Elegance EL 5 (Gerflor)

(either conductive or static-dissipative references)

DOC2499483 - List of Vinyl products compatible with Allia™ IGS system
Latest version of this list is available on Customer Documentation Portal:
www.gehealthcare.com/documentationlibrary

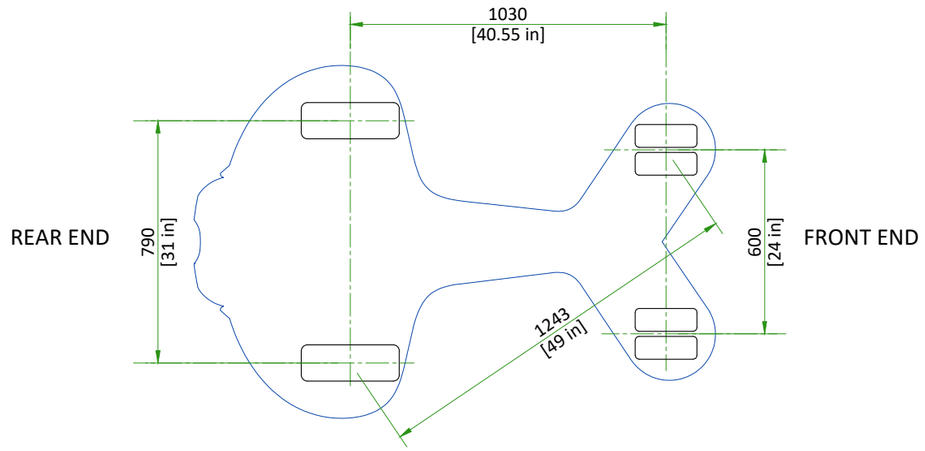
EXAM ROOM FLOOR ACCEPTANCE

Table 3. FLOOR ACCEPTANCE (measure either on SLU or Vinyl surface)	
LEVELNESS on the whole surface until 1m from the walls	**< 1 mm/m [< 1/8 in over 10 ft]**
FLATNESS on the whole surface until 1m from the walls	**< 6 mm under 2 m straightedge [< 1/4 in under 10 ft straightedge]**
REFERENCES OF ALL MATERIALS USED: primer for SLU, SLU, Glue, Vinyl	
Conductivity measurement (Optional – if required by Customer)	

GANTRY WEIGHT

DATA TO BE CONFIRMED

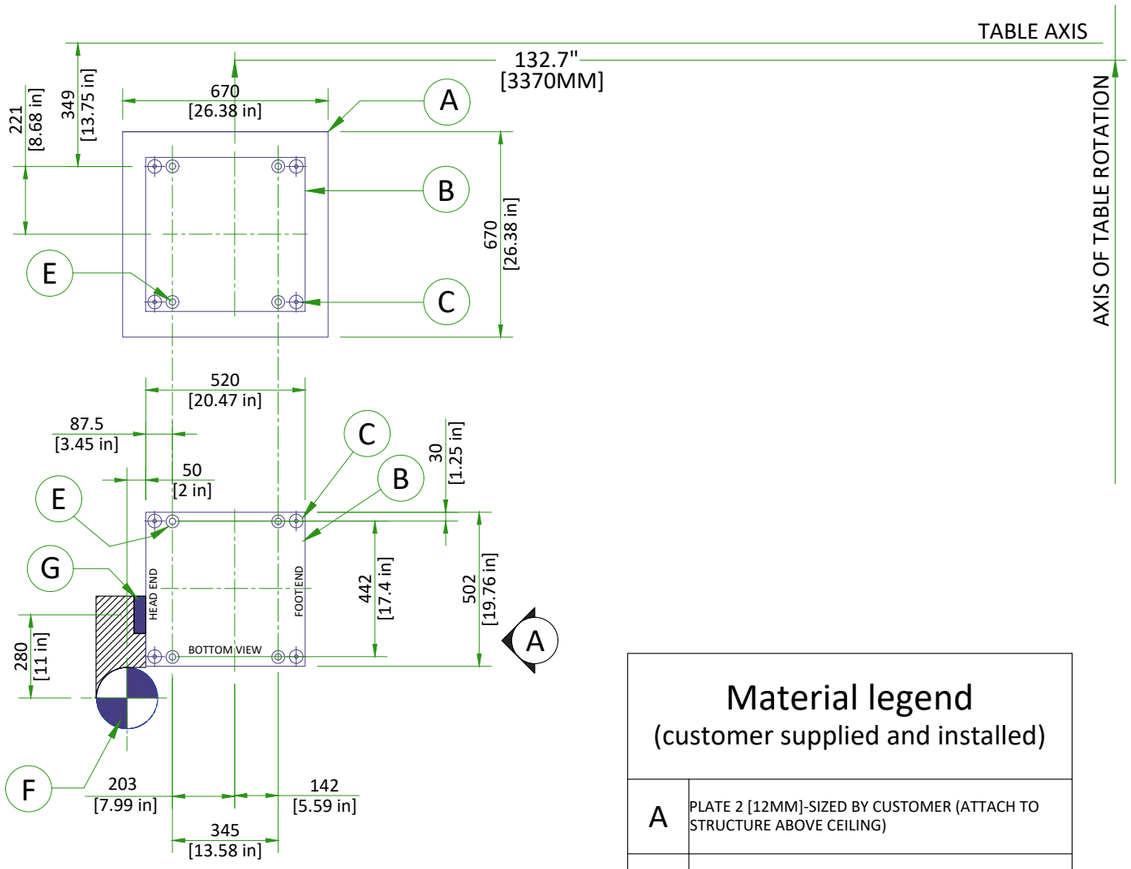
COMPONENT	NET WEIGHT		LOAD BEARING AREA	WEIGHT/OCCUPIED AREA
GANTRY	TOTAL WEIGHT (IGS 730)	990 kg [2183 lb]	1 m² [10.76 ft²]	990 kg/m² [202.7 lb/ft²]
	TOTAL WEIGHT (IGS 740)	1000 kg [2205 lb]	1 m² [10.76 ft²]	1000 kg/m² [204.8 lb/ft²]
	REAR ISOLATED LOAD	350 kg [772 lb]	640 mm² [0.99 in²]	5.5 MPa [798 lb/in²]
	FRONT ISOLATED LOAD	110 kg [243 lb]	135 mm² [0.21 in²]	8.1 MPa [1175 lb/in²]

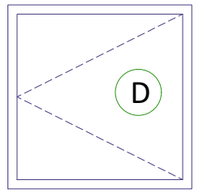


THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

CMS STRUCTURAL SUPPORT PLATE INFORMATION

IMPORTANT NOTE: CUSTOMER/CONTRACTOR INSTALLED AND DESIGNED BY STRUCTURAL ENGINEER
- ●FIRE DETECTION, LIGHTING, VENTILATION, ETC. NOT TO EXCEED FINISHED CEILING
- ●EACH MOUNTING BOLT MUST NOT "PULL OUT" OR OTHERWISE FAIL UNDER A VERTICALLY DOWNWARD DEAD LOAD OF 635daN



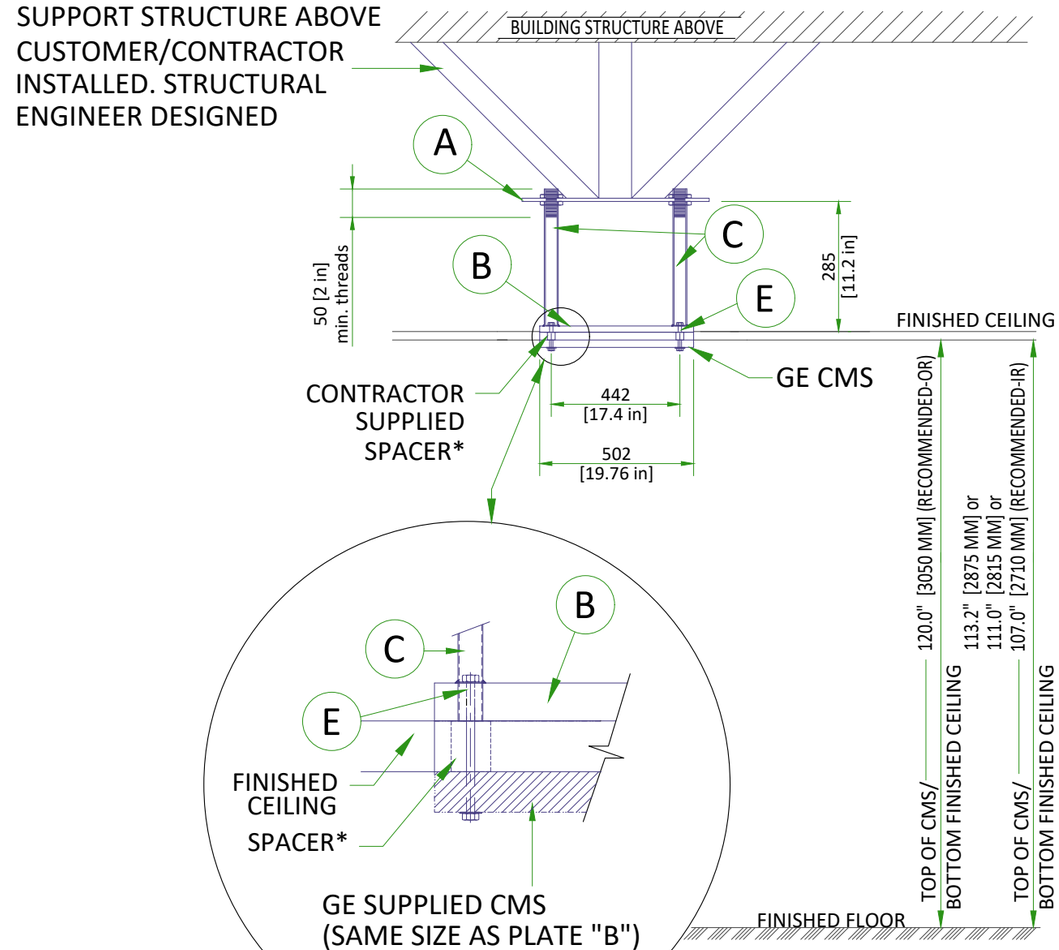


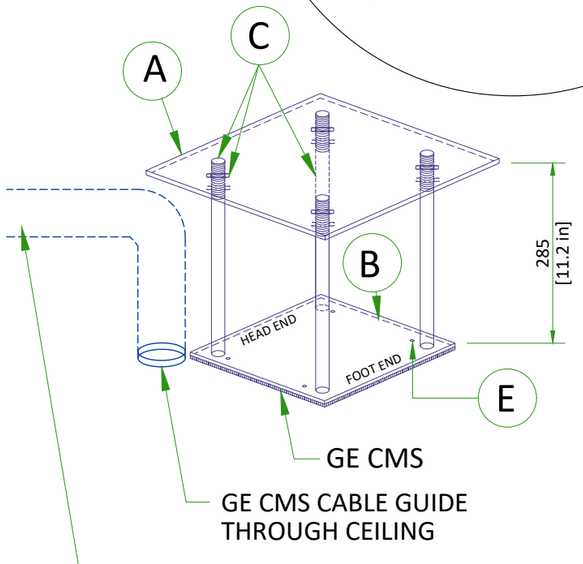
Material legend (customer supplied and installed)	
A	PLATE 2 [12MM]-SIZED BY CUSTOMER (ATTACH TO STRUCTURE ABOVE CEILING)
B	PLATE 1 [12MM] 20.5" (520MM) x 19.8" [502MM]
C	HARDENED THREADED RODS [50x50MM] (WELD & GRIND FLUSH TO BOTTOM PLATE 1) (DOUBLE NUT ADJUSTABLE TO PLATE 2)
D	ACCESS PANEL - 24" x 24" [600x600MM]
E	ANCHORED BY (4) M12 GRADE 8.8 BOLTS or ANCHORED BY (4) 1/2" GRADE 5 BOLTS (8) NORD WASHERS (8) NYLOC NUTS ●MAX. AXIAL EFFORT 153daN ●MAX. SHEAR FORCE 125daN
F	8.5" [210MM] DIA. OPENING IN FALSE CEILING (CABLE ACCESS, KEEP CLEAR NO OBSTRUCTIONS)
G	4" [100MM] x 1" [25MM] OPENING (FOR CABLE GUIDE BRACKET IN FALSE CEILING)

DETAIL NOT TO SCALE

CMS ELEVATION SUPPORT STRUCTURE

ELEVATION "A" VIEW





SCHEMATIC VIEW

* SPACER REQUIRED IF CONTRACTOR PLATE B NOT FLUSH WITH FINISHED CEILING.

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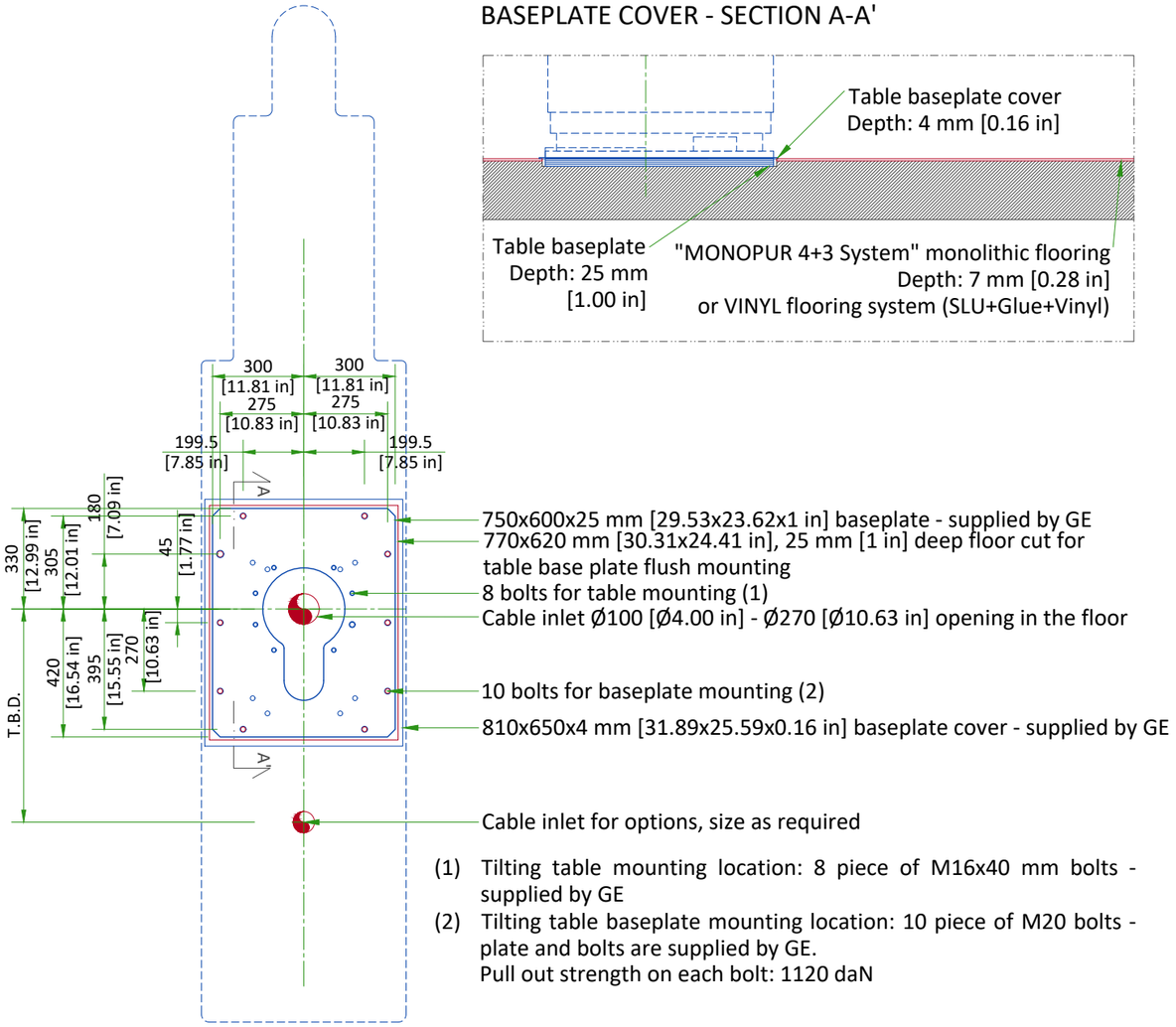
DETAIL NOT TO SCALE

TABLE MOUNTING WITH TABLE BASEPLATE



750x600x25 mm [29.53x23.62x1 in] baseplate - supplied by GE
770x620 mm [30.31x24.41 in], 25 mm [1 in] deep floor cut for table base plate flush mounting
8 bolts for table mounting (1)
Cable inlet Ø100 [Ø4.00 in] - Ø270 [Ø10.63 in] opening in the floor
10 bolts for baseplate mounting (2)
810x650x4 mm [31.89x25.59x0.16 in] baseplate cover - supplied by GE
Cable inlet for options, size as required

BASEPLATE COVER - SECTION A-A'

(1) Tilting table mounting location: 8 piece of M16x40 mm bolts - supplied by GE
(2) Tilting table baseplate mounting location: 10 piece of M20 bolts - plate and bolts are supplied by GE.
Pull out strength on each bolt: 1120 daN

BASEPLATE MOUNTING REQUIREMENTS

- The maximum pullout force per provided anchor was calculated assuming:
  - A concrete compression strength of **30 MPa** at 28 days (which is the minimum required compression strength).
  - Anchors installed to the required hole depth of **165.1 mm [6.50 in]** minimum.
  - The distance between the center of anchor hole and the edge of the concrete is **79.4 mm [3.13 in]**.
- Make sure to obtain data on compression strength of the concrete before using floor anchors.
- Chemical anchors can be used as well: HILTIHVU adhesive capsule + HAS Anchor rod.
- The fixation screws shall not jut out of the table baseplate, plate has to be level.

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5

TEMPERATURE AND HUMIDITY SPECIFICATIONS

IN-USE CONDITIONS

	EXAM ROOM			CONTROL ROOM			TECHNICAL ROOM		
Temperature	Min	Recommended	Max	Min	Recommended	Max	Min	Recommended	Max
	15 °C [59 °F]	20 °C [68 °F]	32 °C [90 °F]	15 °C [59 °F]	20 °C [68 °F]	35 °C [95 °F]	15 °C [59 °F]	20 °C [68 °F]	25 °C [77 °F]
Temperature gradient	**≤ 10 °C/h**			**≤ 10 °C/h**			**≤ 10 °C/h**		
RH (1) non condensing	20% to 70%			20% to 75%			20% to 75%		
Humidity gradient	**≤ 10%/h**			**≤ 10%/h**			**≤ 10%/h**		

STORAGE CONDITIONS

Temperature	+10 °C [50 °F] to +40 °C [104 °F]
RH (1) non condensing	10% to 80%
Pressure	700 hPa to 1030 hPa
Overall storage time shall be less than 6 months.	

(1) Relative humidity

20 kVA FLUORO UPS

Air renewal	According to Standard IEC 62040-1-2

Systems with 20 kVA UPS shall be stored for less than 6 weeks if the storage temperature is above +30°C [86°F], and less than 12 weeks if storage temperature is above +25°C [77°F] .

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

ROOM	DESCRIPTION	HEAT OUTPUT (kW)				HEAT OUTPUT (BTU/hr)			
		STAND BY	MODERATE[1]	TYPICAL[2]	MAX[3]	STAND BY	MODERATE[1]	TYPICAL[2]	MAX[3]
Exam room	Gantry and table	0.41	0.55	0.89	1.62	1399	1877	3037	5528
	Large Display Monitor (LDM) with 2 backups	0.10	0.10	0.10	0.10	341	341	341	341
	Typical injector	0.09	0.09	0.09	0.09	307	307	307	307
	TOTAL	**0.60**	**0.74**	**1.08**	**1.81**	**2047**	**2525**	**3685**	**6176**
Control room	DL console and live monitor	0.10	0.10	0.10	0.10	341	341	341	341
	AW Workstation	0.59	-	0.59	0.59	2013	-	2013	2013
	TOTAL	**0.69**	**0.10**	**0.69**	**0.69**	**2354**	**341**	**2354**	**2354**
Technical room	C-FRT Cabinet	0.70	1.02	1.53	2.16	2388	3480	5221	7370
	PDU	0.50	0.50	0.50	0.50	1706	1706	1706	1706
	Tube Chiller	2.53	4.49	5.49	6.93	8633	15321	18733	23646
	Detector Conditioner	0.21	0.21	0.21	0.21	717	717	717	717
	Fluoro UPS	2.14	2.14	2.14	2.14	7302	7302	7302	7302
	TOTAL	**6.08**	**8.36**	**9.87**	**11.94**	**20746**	**28526**	**33679**	**40741**

WARNING
The list contains only the principal components of the system and doesn't contain any non-GE supplied equipment.

[1] Moderate Use corresponds to 8 cases in 10 hours.

[2] Typical Use corresponds to 11 cases in 10 hours.

[3] Maximum Use is maximum peak power during exam.

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5

CONNECTIVITY REQUIREMENTS

Service Connectivity for new systems will be based on the Insite-RSvP Platform which allows to configure a direct Internet connection to the RSvP Server (routers/VPN tunnel no more mandatory). Communication with the RSvP server will be outbound only and require using Transport Layer Security (TLS) over TCP port 443. This is commonly known as an HTTPS (HTTP-Secure) connection.

There will be several ways to connect the system to the RSvP Enterprise Server. See below the main options that might not be all available or authorized at your site depending on actual network constraints or local regulations.:

- The system allows for DNS configuration or proxy server-based connection to the Internet.
- Connection thru a GE Proxy will be possible in the future.
- In the case the customer does not accept the above connection protocol or regulatory reasons prevent using these types of configurations, the local/regional connectivity teams can provide help to connect through SSL/TLS proxy IP over the site-to-site VPN.

To make the system connectivity operational before the system installation is finished, ensure the connectivity solution is defined as early as possible during the pre-installation process and proper information are exchanged between the customer Network Administrators and GEHC Sales and/or Service representatives.

For more information please refer to the latest version of the Pre Installation Manual.

ELECTRICAL NOTES

1. All wires specified shall be copper stranded, flexible, thermo-plastic, color coded, cut 10 foot long at outlet boxes, duct termination points or stubbed conduit ends. All conductors, power, signal and ground, must be run in a conduit or duct system. Electrical contractor shall ring out and tag all wires at both ends. Wire runs must be continuous copper stranded and free from splices.

1.1. 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 distritbution 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. 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.
10. The maximum point to point distances illustrated on this drawing must not be exceeded.
11. Physical connection of primary power to GE equipment is to be made by customers electrical contractor with the supervision of a GE representative. The GE representative would be required to identify the physical connection location, and insure proper handling of GE equipment.
12. 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.

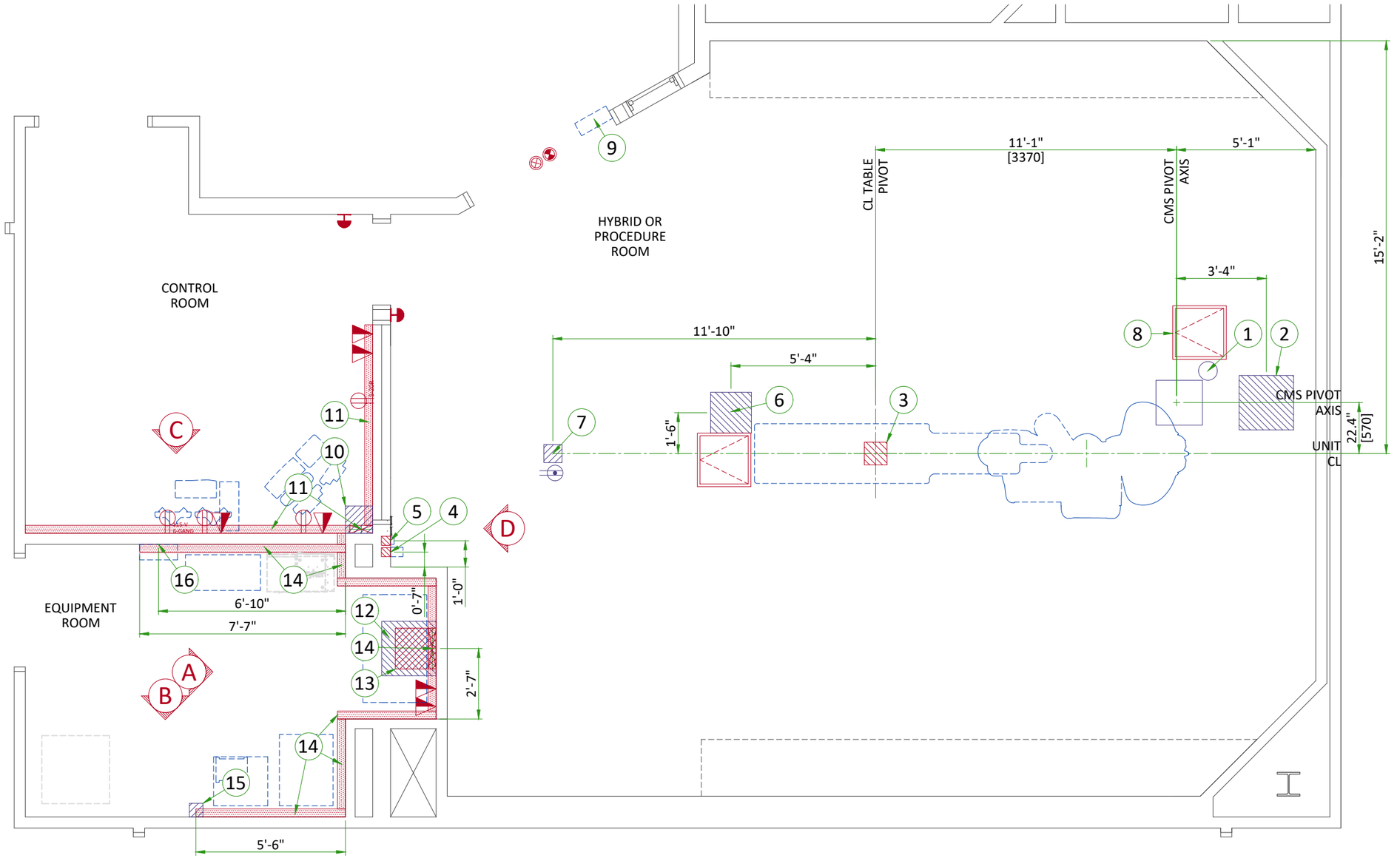
THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

- All junction boxes, conduit, duct, duct dividers, switches, circuit breakers, cable tray, etc., are to be supplied and installed by customers electrical contractor.
- Conduit and duct runs shall have 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.
- General contractor to insert pull cords for all cable run conduits between the equipment room and the operators control room.
- 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.

5



ELECTRICAL LAYOUT

	EXAM ROOM
1	Cable Management System (CMS)
2	Box above ceiling for CMS, 24"x24"x12"
3	Box below floor for Table, 10"x10"x6"
4	Flush box for X-Ray Buzzer, 4"x4"x4" mounted 6" below finished ceiling
5	Flush box for AW Mouse, 4"x4"x4"
6	Box above ceiling for Monitors, 18"x18"x6"
7	Box above ceiling for Patient Monitoring, 8"x8"x6"
8	Service access in ceiling for CMS, 24"x24"
9	Light Signaling Control Box
	CONTROL ROOM
10	Box above ceiling, 12"x12"x6"
11	Surface wall duct, 10"x 3 1/2" with minimum 2 dividers
	EQUIPMENT ROOM
12	Box above ceiling, 24"x24"x12"
13	Box below floor, 18"x18"x6"
14	Surface wall duct, 18"x 3 1/2" with minimum 2 dividers
15	Flush box in ceiling for water lines, 6"x6"x6" for 3" diameter flexible pipe
16	Main Disconnect Panel

ITEM	QTY	Outlet Legend for GE Equipment
		System emergency off (SEO), (rec. height 48" above floor)
		X-Ray ON lamp (L1) - 24 V
		System ON lamp (L) - 24 V (only if needed per local codes)
		Duplex hospital grade, dedicated wall outlet 120-v, single phase power
		Duplex hospital grade, dedicated ceiling outlet 120-v, single phase power
		Network outlet
		Duplex hospital grade, dedicated outlet 120-v emergency, single phase power, 15a
115-V 6-GANG		6-Gang hospital grade, dedicated wall outlet 115-V, single phase power
5-20R		5-20R NEMA Receptacle, dedicated outlet 120-v, single phase power

Additional Conduit Runs (Contractor Supplied and Installed)

From (Bubble # / Item)	To (Bubble # / Item)	Qty	Usable length	Size (in)
#1 Cable Management System	#12 CFRT Cabinet	4	42 ft.	4
#3 Table	#13 CFRT Cabinet	2	62 ft.	4
#13 Bolus Chase	#3 Table	1	85 ft.	2 1/2
#15 Water Line	#1 Cable Management System	1	59 ft.	3
#9 Light Signaling Control Box	Warning light	1	-	1/2
#9 Light Signaling Control Box	#12 System Interface Cabinet (PDU)	1	-	1/2
#9 Light Signaling Control Box	120-V 1 phase power	1	-	As Req'd
#4 X-Ray Buzzer	#12 CFRT Cabinet	1	90 ft.	3/4
#4 X-Ray Buzzer	#10 Control Room	1	90 ft.	3/4
#6 Monitor Boom	#10 Control Room	1	88 ft.	2 1/2

Additional Conduit Runs (Contractor Supplied and Installed)

From (Bubble # / Item)	To (Bubble # / Item)	Qty	Usable length	Size (in)
#6 Large Display Monitor	#12 CFRT Cabinet	1	88 ft.	3 & 3/4
#12 CFRT Cabinet	#7 TRAM/PDM	2	-	3
#16 Main Disconnect Panel	#12 20KVA UPS	2	-	As Req'd
#12 System Interface Cabinet (PDU)	Emergency off	1	-	1/2
#12 System Interface Cabinet (PDU)	Emergency off	1	-	1/2
#16 Main Disconnect Panel	#12 System Interface Cabinet (PDU)	1	14-44 ft.	1
#16 Main Disconnect Panel	480-V 3 phase power	1	-	As Req'd
#5 AW Wireless Mouse	#10 AW Workstation	1	-	1

Additional Conduit Runs (Contractor Supplied and Installed)

From (Bubble # / Item)	To (Bubble # / Item)	Qty	Usable length	Size (in)
#10 Patient Monitoring Console	#6 Monitor Boom	1	-	3
#10 Patient Monitoring Console	#7 TRAM/PDM	2	-	3

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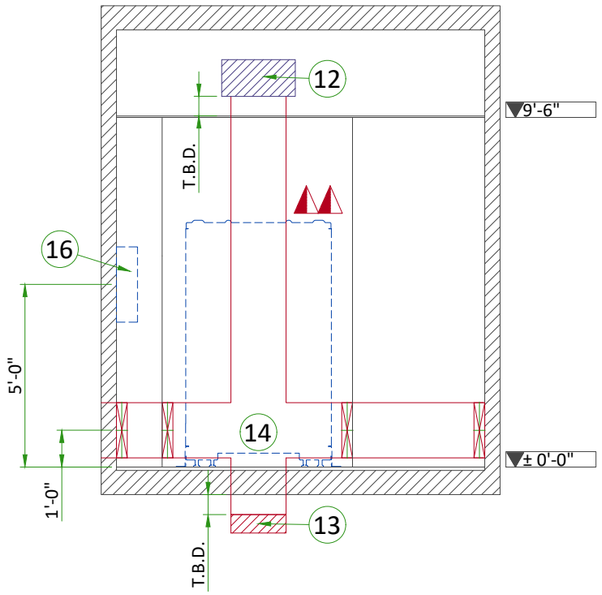

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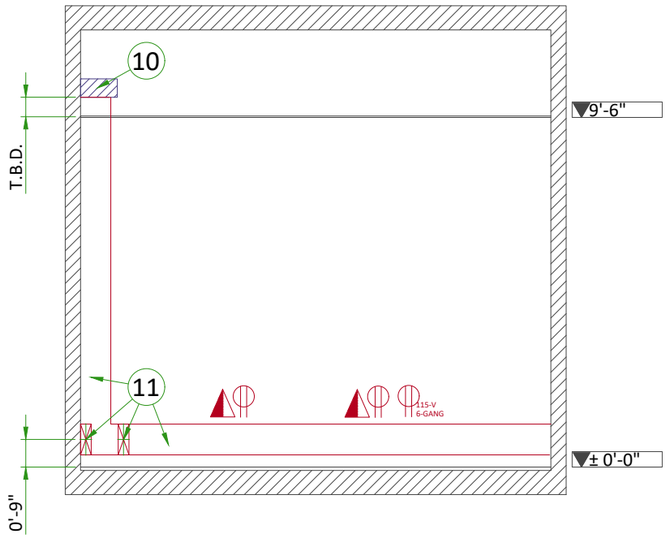

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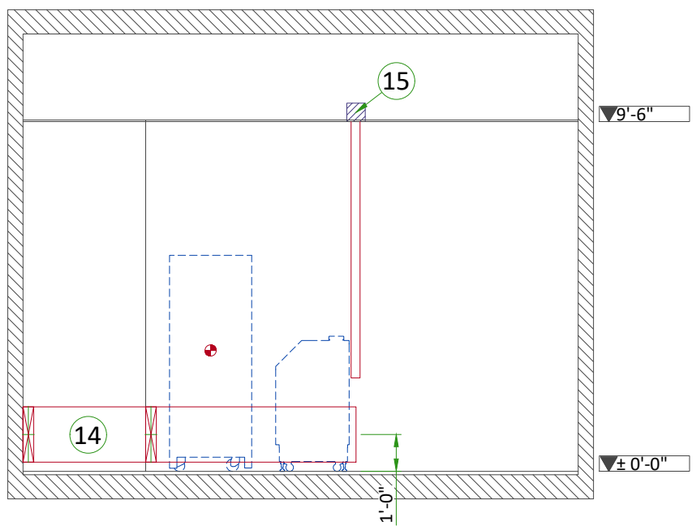

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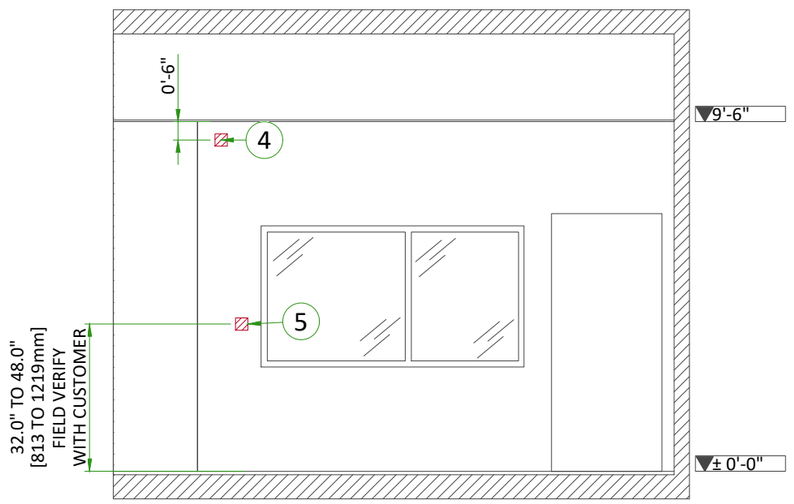
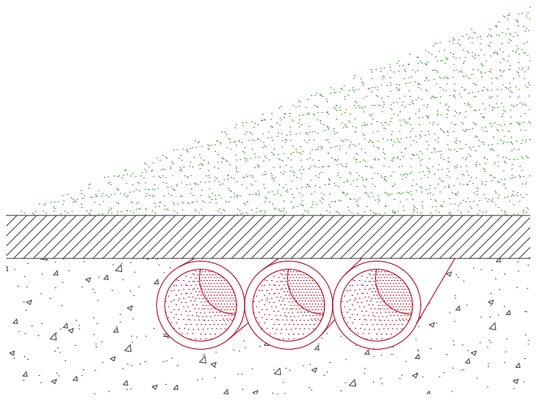


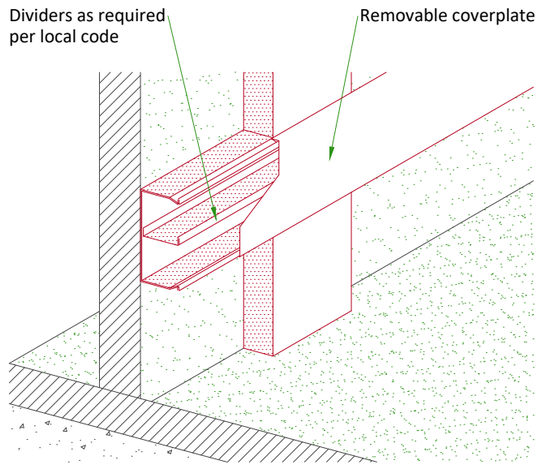
D 5

TYPICAL CABLE MANAGEMENT

CONDUIT IN THE FLOOR



WALL DUCT



NOT TO SCALE

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5

POWER REQUIREMENTS

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

- Neutral is mandatory for Fluoro UPS (20 kVA) control.
- TNS neutral point connection must be used.
- In case of IT or delta configuration without neutral, an isolation transformer is needed (supplied by customer)
- Power supply should come into a Mains Disconnect Panel (MDP) containing the protective units and controls.
- The section of the supply cable should be calculated in accordance with its length and the maximum line resistance per 2 phases.

SUPPLY CHARACTERISTICS

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

GROUND SYSTEM

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

CABLES

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

CABLEWAYS

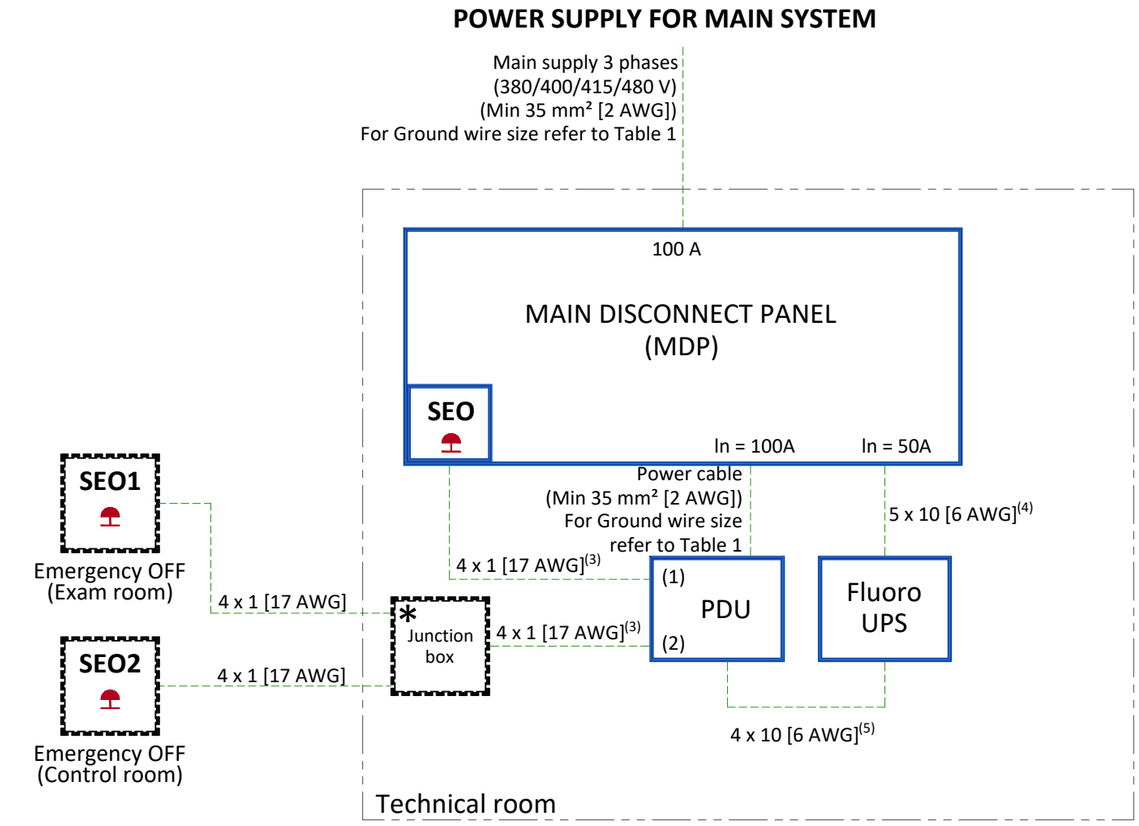
The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to :

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

MANDATORY LOTO REQUIREMENTS

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

POWER DISTRIBUTION FOR IGS SYSTEM



SEO Emergency OFF button with two normally closed (NC) contacts in the door of MDP

SEO 1-2 Emergency OFF button with two NC contacts located 1.50 m [5 ft] above floor
The EPO button shall be protected against accidental activation.
*Series connection of SEO1 and SEO2 NC contacts

PDU Power Distribution Unit/System Interface Cabinet

NOTES:

(1) Emergency power off : MDP EPO

(2) Emergency power off : Remote EPO

(3) Cable with 2 m [6.6 ft] extra length on the floor behind the PDU

(4) If length < 10 m [32.8 ft] - Cable with 2 m [6.6 ft] extra length on the floor behind the Fluoro UPS

(5) If length < 12 m [39.4 ft] - Cable with 2 m [6.6 ft] extra length on the floor behind the Fluoro UPS and PDU

Table 1

LENGTH	<6 m [20 ft]	<15.1 m [50 ft]
GAUGE	1x2 AWG	2x2 AWG
GAUGE	1x35 mm²	2x35 mm²

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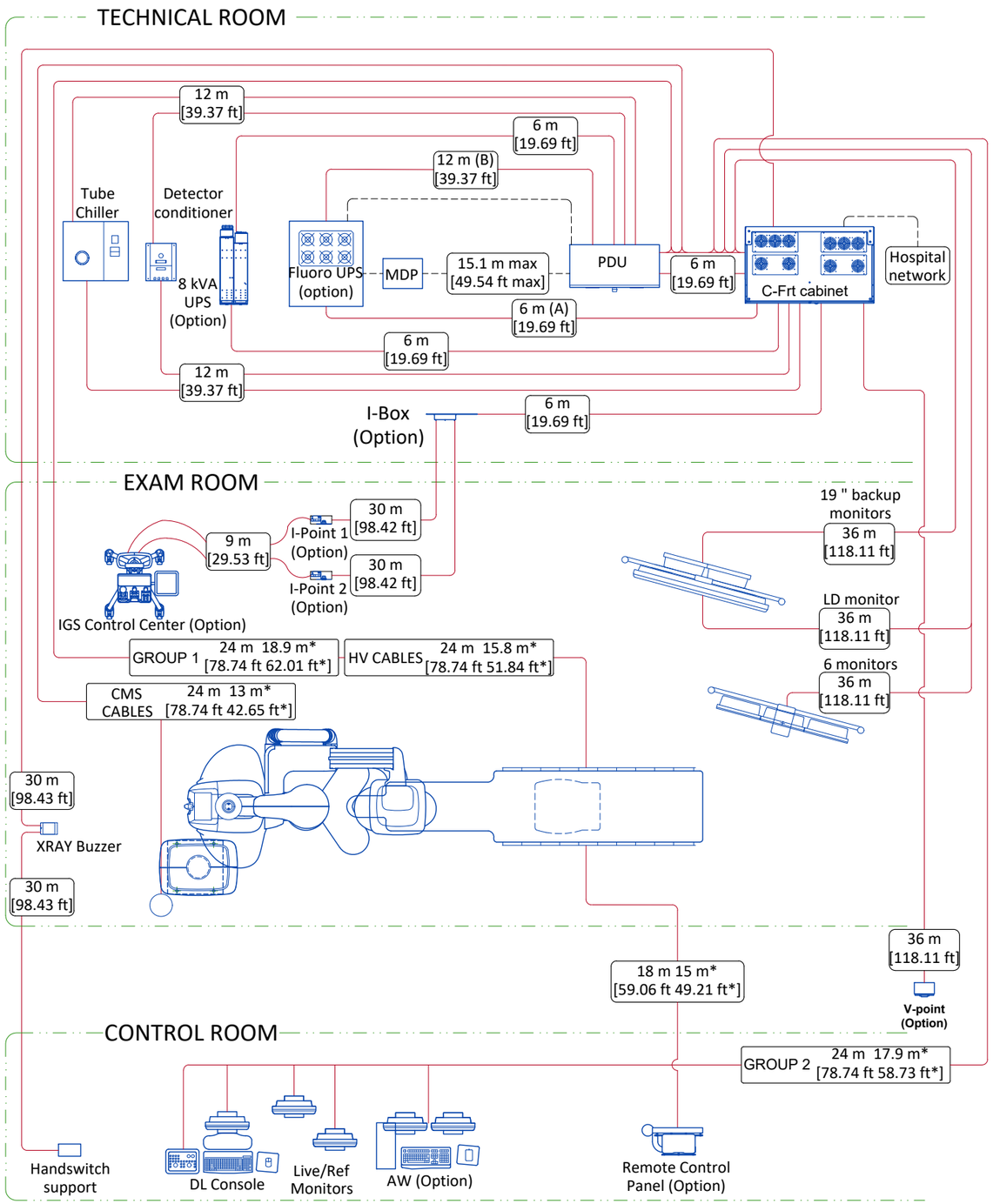
Cable SUPPLIED BY CUSTOMER
Cable SUPPLIED BY GE
Equipment SUPPLIED BY CUSTOMER
Equipment SUPPLIED BY GE

The Fluoro UPS requires a Neutral line connected to the Protective Earth.

5

INTERCONNECTIONS



	Cable supplied by the client
	Cable supplied by GE
	Room wall
.....m / .....ft	Total length
.....m* / .....ft*	Usable/Conduit length

Notes:

(A): A 6 m Ethernet cable between the C-FRT Cabinet and the Fluoro UPS is provided with the system. If a longer cable is needed, it shall be provided by the hospital; it shall be Cat5 minimum.

(B): A 12 m EPO cable between the PDU and the Fluoro UPS is provided with the system. If a longer cable is needed, it shall be provided by the hospital, its minimum gauge shall be 1 mm^2 [17 AWG].

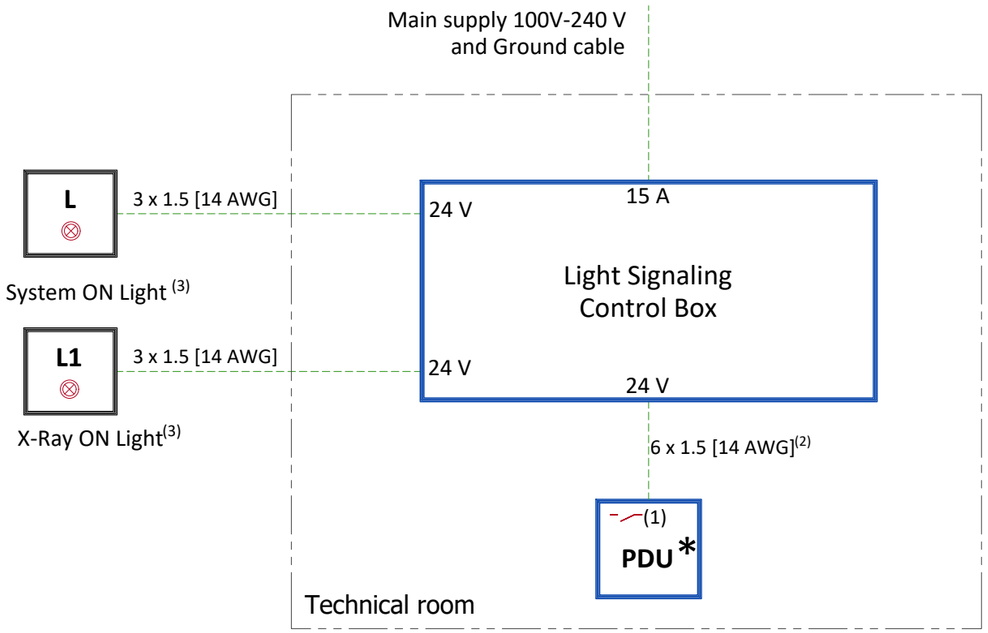
THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

POWER REQUIREMENTS (LIGHT SIGNALING)

SPECIFICATIONS OF POWER INPUT

FOR ELECTRICAL BOX LIGHT SIGNALING	
POWER DEMAND	**15 A**
VOLTAGE	**Single Phase 120V or 240V**
FREQUENCY	**50/60 Hz ± 3Hz**

POWER DISTRIBUTION (LIGHT SIGNALING)



L System ON light - Located near access doors (3)(4)

L1 XRay ON light - 24 V, Located near access doors and inside the exam room (3)(4)

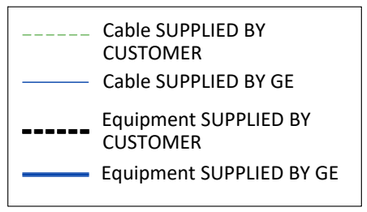
PDU Power Distribution Unit/System Interface Cabinet

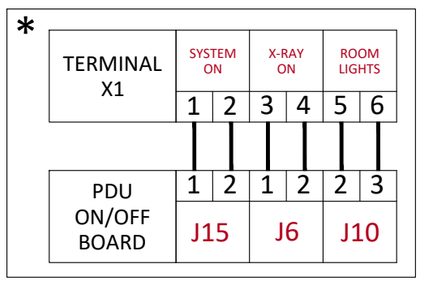
NOTES:

(1) Three dry contacts: "System ON", "X-Ray ON" and Room lights control are released by PDU. Max. voltage = 24 V

(2) Cable with 2m [6.6ft] extra length on the floor behind the back of PDU

(3) Location and/or quantity: refer to layout





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