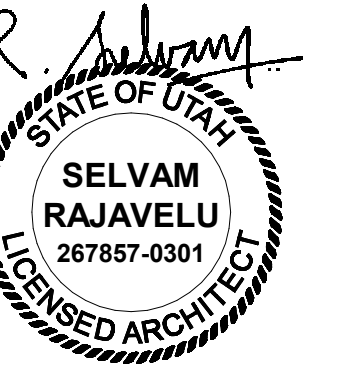




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 www.njraarchitects.com



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IMH PRIMARY CHILDRENS HOSPITAL SALT LAKE CITY, UTAH

DRAWING INDEX

- 00 COVER
- 01 PROPOSED EQUIPMENT LAYOUT

SIGN OFF ACCEPTANCES

 _____ (OPTIONAL)
 _____ (OPTIONAL)

| | | | | | | | |
|-----------------------------|------------------|--|-----------------------------|-------------|--|--------------|-----------|
| Healthcare Design Group | REVISION SUMMARY | | | COVER SHEET | IMH PRIMARY CHILDRENS HOSPITAL SALT LAKE CITY, UTAH | 3824D3R1-INT | |
| | REVISION # 1 | DESCRIPTION ADDED INTEGRATION FUNCTIONALITY | DESIGNER/DATE JFYHAM/024 | | | CHECKER | DR JAF CK |

Intermountain Healthcare
 Primary Children's Hospital
 OR 17

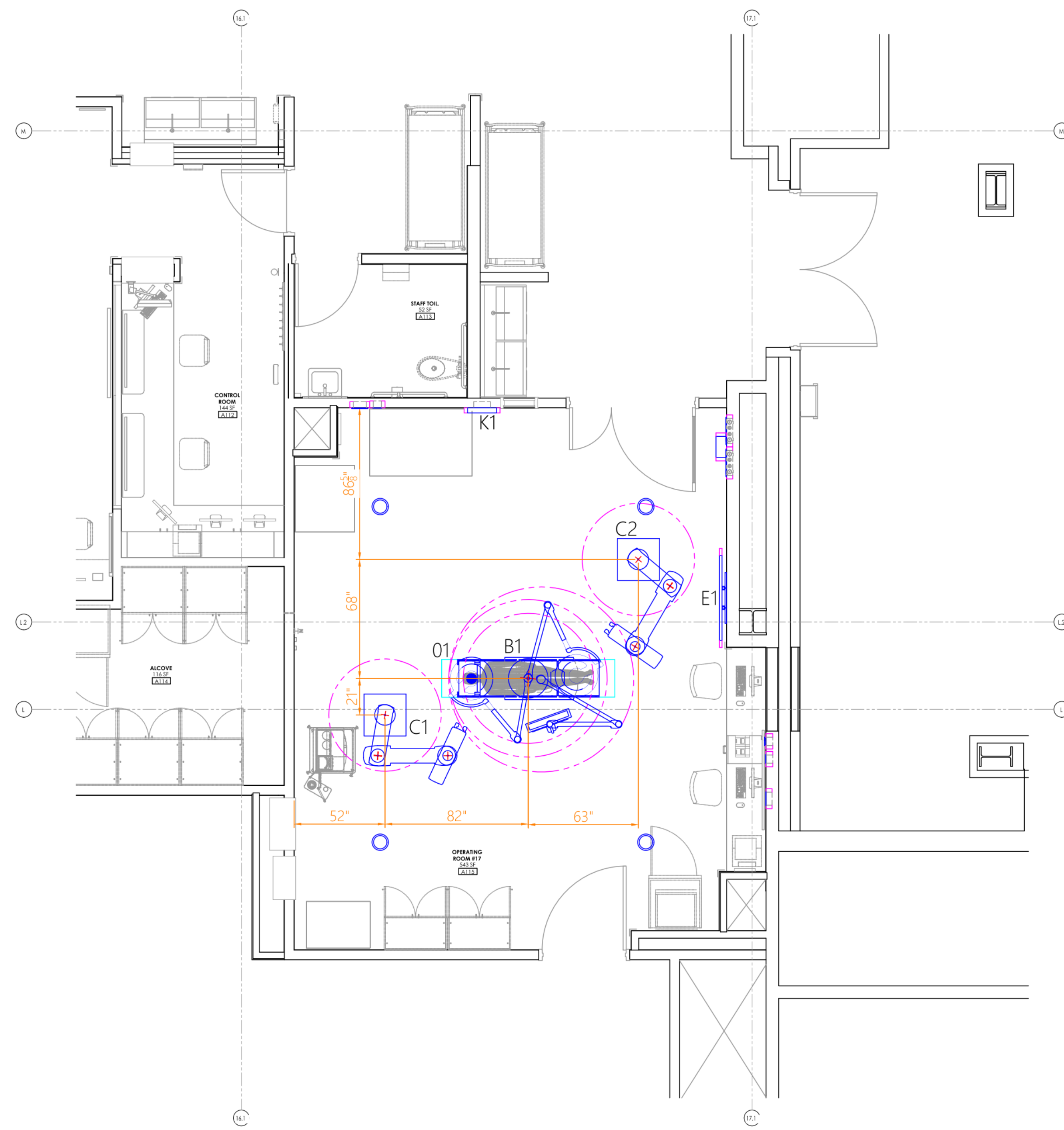
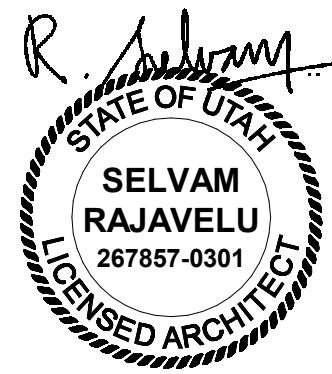
100 Merino Capechi Dr.
 Salt Lake City, UT 84113

NJRA Project # 23248.00
 Construction Documents April 17, 2024

Equipment
 Drawings

EQ101

FOR REFERENCE ONLY. CONTACT VENDOR STERIS FOR MORE INFORMATION.



| EQUIPMENT LIST | | |
|----------------|-----|---|
| TAG | QTY | DESCRIPTION |
| O1 | 1 | STERIS 4095 General Surgical Table |
| B1 | 1 | A Series-Surgical Light(s), Accessory Arm(s) |
| C1 | 1 | HarmonyAIR Adj Arm Spring-Anesthesia |
| C2 | 1 | HarmonyAIR Adj Arm Spring-Anesthesia |
| E1 | 1 | LG 55" 4K IPS LED Commercial Grade Display - Wall Mounted |
| K1 | 1 | HarmonyAIR A-Series Touch Panel Control Unit (TPCU) - Integrated Wall Control |

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| REVISION SUMMARY | | | |
|------------------|---------------------------------|---------------|---------|
| REVISION # | DESCRIPTION | DESIGNER/DATE | CHECKER |
| 1 | ADDED INTEGRATION FUNCTIONALITY | JFY/HAM/024 | |

OPERATING ROOM #17
PROPOSED EQUIPMENT LAYOUT

IMH PRIMARY CHILDRENS HOSPITAL
SALT LAKE CITY, UTAH

| | | | |
|--------------------|-----|----|----------------|
| 3824D3R1-INT | | | |
| DR | JAF | CK | DATE 21FEB2024 |
| SCALE 1/4" = 1'-0" | | | PAGE 01 |

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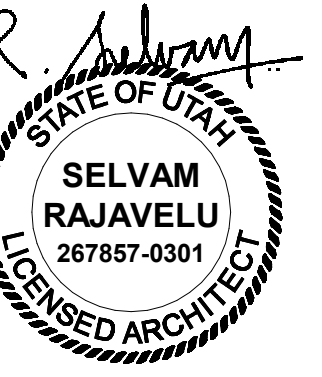
Equipment
Drawings

EQ102

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HV1000 INSTALLATION GUIDELINES

IMH PRIMARY CHILDRENS HOSPITAL

SALT LAKE CITY, UTAH

GENERAL NOTES

- SEE INFRASTRUCTURE RESPONSIBILITIES PAGE (1A) FOR ADDITIONAL DETAILS & DESCRIPTIONS FOR SPECIFIC STAKEHOLDER RESPONSIBILITIES
- SUPPLY AND INSTALLATION OF ALL CONDUIT, POWER CIRCUITS, BACK BOXES, ELECTRICAL DEVICES, ELECTRICAL WIRING IS TO BE PROVIDED BY THE CLIENTS ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE
- ONE WIRE HANGER FOR CABLE COILS REQUIRED FOR EACH MOUNT
- CLIENT CONTRACTOR TO PROVIDE BLANK COVER PLATES FOR ALL JUNCTIONS BOXES WHERE NECESSARY
- ALL CABLE RUNS OUTSIDE INTEGRATED ROOMS ARE THE RESPONSIBILITY OF HOSPITAL/CONTRACTOR; ALL CABLE RUNS SHOULD BE CONTINUOUS EXCEPT WHERE NOTED
- 24x24" ACCESS MUST BE PROVIDED WITHIN 36" OF ALL JUNCTION BOXES
- CABLE RUNS THRU PLENUM SPACE MUST BE PLENUM RATED OR SHALL BE INSTALLED WITH CONDUIT
- CABLES NOT RUN IN CONDUIT MUST HAVE J-HOOKS EVERY 4' FOR SUPPORT (NOT BY STERIS)
- WHERE J-HOOKS ARE USED IN CEILING, CONDUIT IS REQUIRED IN ALL CONCEALED LOCATIONS (SIZED PER SCHEDULES)
- EACH RACK REQUIRES (4) NETWORK PORTS PER O.R.
- ALL POWER FOR INTEGRATION EQUIPMENT SHOULD COME FROM A SINGLE ELECTRICAL PANEL IN THE OR IT SERVES
- CONFORMANCE TO NATIONAL, STATE AND LOCAL CODES FOR ELECTRICAL CIRCUITS AND CONDUIT IS THE RESPONSIBILITY OF THE HOSPITAL OR THEIR CONTRACTED ELECTRICIAN
- THE EQUIPMENT AND ROUGH-IN REQUIREMENTS SHOWN ARE FOR BUDGETARY PLANNING PURPOSES ONLY; EQUIPMENT IS SUBJECT TO CHANGE AND DIFFERENT OPTIONS ARE AVAILABLE TO MEET SPECIFIC CUSTOMER DESIGN CRITERIA; POST-ORDER DRAWINGS WILL REFLECT EXACT EQUIPMENT SPECIFICATIONS, AND REQUIRES CUSTOMER SIGNED APPROVAL
- USE OF ISOLATED GROUND POWER TO BE DETERMINED BY ELECTRICAL CONTRACTOR

ABBREVIATIONS

- A.F.F. = ABOVE FINISHED FLOOR
- B.C.P. = BLANK COVER PLATE
- C. = CONDUIT
- C.P. = COVER PLATE
- C.K.T. = CIRCUIT
- E.C. = ELECTRICAL CONTRACTOR
- N.S.E. = NURSE STATION EQUIPMENT

INDEX

| PAGE # | SHEET TITLE | ROOM # |
|--------|--|--------|
| 01 | TITLE PAGE, INDEX | - |
| 01A | INFRASTRUCTURE RESPONSIBILITIES TERMS & CONDITIONS | - |
| 02 | PROPOSED OPERATING ROOM #17 LAYOUT | A115 |
| 03 | PROPOSED OPERATING ROOM #17 CONDUIT RISER DIAGRAM | - |
| 04 | PROPOSED EQUIPMENT INSTALLATION DETAILS | - |

ALL STERIS TERMS AND CONDITIONS RELATIVE TO STERIS AND CUSTOMER, DESIGNATED CONTRACTOR RESPONSIBILITIES, SITE READINESS, AND CHANGE ORDERS APPLY. THESE WILL BE PROVIDED TO ALL PARTIES ABOVE AT THE PROJECT KICKOFF MEETING BY YOUR STERIS REPRESENTATIVE

| | | | | | | | | | | | |
|--|------------------|---------------------------------|---------------|---------|--|--|--------------|-----|------|------|-----------|
| <p>Healthcare Design Group 5960 Heisley Road Mentor, OH 44060 USA 800-548-4873</p> | REVISION SUMMARY | | | | <p>HV1000 INTEGRATION SYSTEM TITLE PAGE, INDEX</p> | <p>IMH PRIMARY CHILDRENS HOSPITAL SALT LAKE CITY, UTAH</p> | 3824D3R1-INT | | | | |
| | REVISION # | DESCRIPTION | DESIGNER/DATE | CHECKER | | | DR | JTP | CK | DATE | 14MAR2024 |
| | 1 | ADDED INTEGRATION FUNCTIONALITY | JTP/14MAR2024 | | | | SCALE | NTS | PAGE | 01 | |

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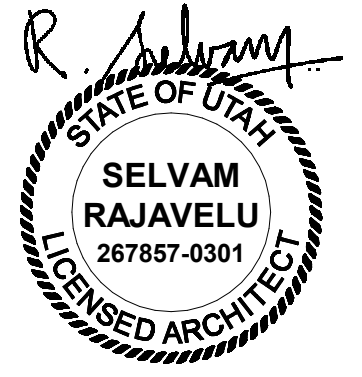
Equipment
Drawings

EQ103

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STERIS Responsibilities:

- Provide cable conduit drawings, electrical requirements, and mounting requirements for the room.
- Provide space, structural, and heat load requirements for the base unit.
- Provide site preparation specifications.
- Deliver all custom back boxes, mounting brackets, and construction-related items to the hospital in accordance with the mutually agreed upon construction or renovation schedule.
- Participate in project meetings in person, via conference call or via e-mail.
- Ship equipment in protective and labeled packaging.
- Ship cables and equipment on the scheduled ship date
- Pull and terminate non-plenum cabling inside the OR through specified conduits and junction boxes as specified in the Product Description and Final Project Plan.
- Provide external cables and detailed specifications for the interconnections only if external cabling is specified in the Customer Proposal and Final Project Plan.
- Provide a pre-installation checklist to verify site preparation is complete.
- Mount, install, and connect integration equipment - including video, audio, and control cables, cable terminations, wall cameras, wall monitors (does not include wall mounting brackets), base unit, touch screen control, and surgical monitors - as applicable to project.
- Test and validate integration system to complete customer satisfaction.
- Provide the hospital with a certificate of completion signed by the install team and the hospital.
- Adjust STERIS surgical light brakes as necessary after installation of STERIS monitors.
- In-service hospital staff at the time of the install. Further in-service training may be scheduled as mutually agreed.
- Leave a tidy work area each evening and remove packing material to a customer provided on-site container.

Cabling and Fiber Responsibilities:

- All cables and fiber optic runs to locations outside the OR are the responsibility of the hospital.

Minimum Site Readiness

Successful and efficient installation of a complete integration system requires that the site be carefully prepared according to the project documentation and schematics. A site that is not ready when the installation team arrives will cause delays and additional expenses to both parties. If the installation site is not ready per the mutually agreed specifications, STERIS reserves the right to charge a change order fee and extend the timeline needed to finish project past the planned date given at the project's inception.

To be ready a site should have -

1. All floor work must be complete
2. All painting must be complete
3. All electrical requirements must be installed and powered
4. Room must be clean and free from dust

Customer or Customer's Designated Contractor Responsibilities:

- Ensure that site preparations and construction are complete and ready for final integration installation - including electrical and network connections, finished floor and paint.
- Provide complete room schematics including electrical, mechanical, and equipment location details.
- Install cable conduit, junction boxes, electrical outlets, and mounting brackets according to project specifications.
- Ensure that all electrical requirements comply with local code.
- Ensure space, structural, and heat load requirements are met according to project specs and plan.
- Receive shipment and safely, securely store equipment if shipment arrives prior to requested installation date.
- Provide adequate access from delivery/storage area to installation site.
- Relocate equipment from on-site storage/delivery area to installation site.
- Run all cables outside the OR- Including conduit, J-hooks, penetrations through firewall, video cables, radio antennae cables, or fiber optics to networking hubs and video conferencing hubs, communications closets, conference rooms, centralized nurse desks, rooftop, or other departments.
- Ensure that site preparations and construction are complete and ready for final integration installation - including electrical and network connections, finished floor and paint.
- Proactively schedule the installation in conjunction with the STERIS project manager.
- Provide a minimum of two (2) weeks advance notice for requested changes to the installation schedule.
- Remove old equipment or furniture from the room.
- Provide a clean, dry, dust free environment for equipment storage and installation.
- Provide a secure work site for storing ladders, toolboxes etc. during install.
- Provide easy access to all rooms involved in the installation during normal business hours and upon request after hours.
- Ensure that all non-STERIS or third-party equipment and systems that are to be part of the integrated solution are on-site and functional at the time of installation - otherwise full testing and connections cannot be completed.
- Participate in a final walk-through evaluation of the system followed by a sign-off of the certificate of completion.
- Provide an on-site container for trash, including shipping and packing material. Empty container as needed and on a regular basis.

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| <p>Healthcare Design Group 5960 Heisley Road Mentor, OH 44060 USA 800-548-4873</p> | REVISION SUMMARY | | | | HV1000 INTEGRATION SYSTEM INFRASTRUCTURE RESPONSIBILITIES TERMS & CONDITIONS | IMH PRIMARY CHILDRENS HOSPITAL SALT LAKE CITY, UTAH | 3824D3R1-INT | | | | |
| | REVISION # | DESCRIPTION | DESIGNER/DATE | CHECKER | | | DR | JTP | CK | DATE | 14MAR2024 |
| | 1 | ADDED INTEGRATION FUNCTIONALITY | JTP/14MAR2024 | | | | SCALE | NTS | PAGE | 01A | |

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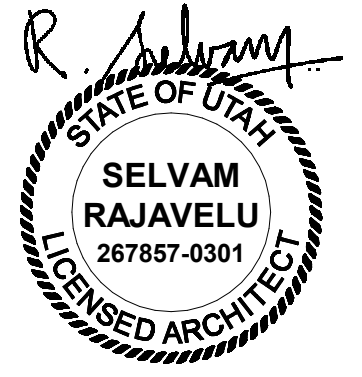
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Equipment
 Drawings

EQ104

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| INTEGRATION EQUIPMENT SCHEDULE | | |
|--------------------------------|--|-----------------------|
| LEGEND | DESCRIPTION | RESPONSIBILITY |
| B1*** | SURGICAL LIGHT MOUNT | STERIS |
| C1*** | ANESTHESIA BOOM | STERIS |
| C2*** | ANESTHESIA BOOM | STERIS |
| D1 | WALL MOUNTED HUBBELL - RACO 698 4 GANG JUNCTION BOX FOR HD ROBOT INPUT | ELECTRICAL CONTRACTOR |
| E1 | WALL MOUNTED DISPLAY | STERIS |
| E2 | WALL MOUNTED 4 1/8" JUNCTION BOX WITH SINGLE GANG MUD RING REQUIRED FOR WALL MOUNTED DISPLAY | ELECTRICAL CONTRACTOR |
| E2 | WALL MOUNTED 4 1/8" JUNCTION BOX WITH SINGLE GANG MUD RING REQUIRED FOR 4K ROBOT OUTPUT | ELECTRICAL CONTRACTOR |
| G1 | CEILING MOUNTED SPEAKER | STERIS |
| G3 | CEILING MOUNTED SPEAKER | STERIS |
| G2 | CEILING MOUNTED SPEAKER | STERIS |
| G4 | CEILING MOUNTED SPEAKER | STERIS |
| K1 | SURGICAL LIGHT CONTROLLER | STERIS |
| N2 | WALL MOUNTED HUBBELL - RACO 698 4 GANG JUNCTION BOX FOR SURGEON PC INPUT | ELECTRICAL CONTRACTOR |
| Q1 | WALL MOUNTED 4 1/8" JUNCTION BOX WITH DOUBLE GANG MUD RING USED FOR AUDIO | ELECTRICAL CONTRACTOR |
| T1 | 12"H x 12"W x 6"D JUNCTION BOX ABOVE CEILING | ELECTRICAL CONTRACTOR |
| | TOUCH PANEL | STERIS |
| TP1 | WALL MOUNTED 4 1/8" JUNCTION BOX WITH DOUBLE GANG MUD RING REQUIRED FOR TOUCH PANEL | ELECTRICAL CONTRACTOR |
| V2 | WALL MOUNTED LEVITON BOX FOR STERIS POWER DISTRIBUTION | ELECTRICAL CONTRACTOR |
| V3 | LEVITON BOX FOR STERIS AUDIO DISTRIBUTION | ELECTRICAL CONTRACTOR |

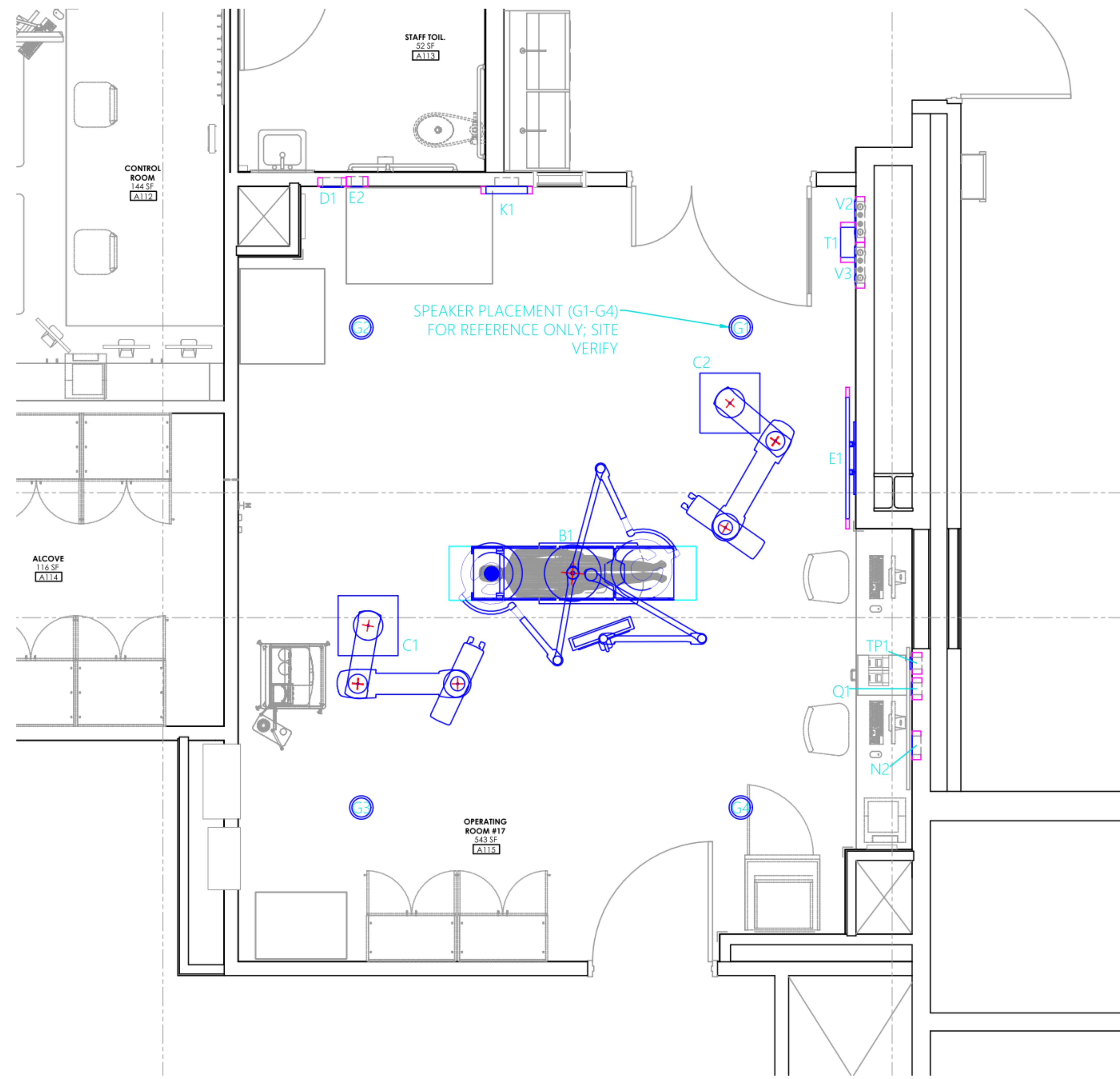
| INTEGRATION CONDUIT SCHEDULE | | | |
|------------------------------|----------|------|-----------------------|
| FROM - TO | QUANTITY | SIZE | RESPONSIBILITY |
| T1 - B1 | 1 | 1.5" | ELECTRICAL CONTRACTOR |
| T1 - C1 | 2 | 1.5" | ELECTRICAL CONTRACTOR |
| T1 - C2 | 2 | 1.5" | ELECTRICAL CONTRACTOR |
| T1 - D1 | 1 | 1.5" | ELECTRICAL CONTRACTOR |
| T1 - E1 | 1 | 1" | ELECTRICAL CONTRACTOR |
| T1 - E2 | 1 | 1.5" | ELECTRICAL CONTRACTOR |
| T1 - N2 | 1 | 1.5" | ELECTRICAL CONTRACTOR |
| T1 - TP1 | 1 | 1" | ELECTRICAL CONTRACTOR |
| T1 - V2 | 2 | 1.5" | ELECTRICAL CONTRACTOR |
| V3 - G1 | 1 | 1" | ELECTRICAL CONTRACTOR |
| V3 - G1 | 1 | .75" | ELECTRICAL CONTRACTOR |
| V3 - G2 | 1 | .75" | ELECTRICAL CONTRACTOR |
| V3 - G3 | 1 | .75" | ELECTRICAL CONTRACTOR |
| V3 - G4 | 1 | .75" | ELECTRICAL CONTRACTOR |

| A SERIES LIGHT CONDUIT SCHEDULE | | | |
|---------------------------------|----------|------|-----------------------|
| FROM - TO | QUANTITY | SIZE | RESPONSIBILITY |
| K1 - B1 | 2 | .75" | ELECTRICAL CONTRACTOR |

- LIGHT CONDUIT SCHEDULE NOTES**
- 5' CONDUIT FOR AC POWER TO K1; 3 COND. 10AWG WIRE INPUT AC SUPPLY - 120V-240VAC, 7A-3A, 50/60HZ
 - LIGHTING CONDUIT RUNS NOT TO EXCEED 25 FEET
 - CONDUIT REQUIREMENTS FOR LIGHTS AND CONNECT POINT ALSO REFERENCED WITHIN THE EQUIPMENT DRAWINGS FOR THE SPECIFIED SURGICAL LIGHT WALL CONTROL SYSTEM
 - DC SUPPLY LIGHTHEAD CABLES REQUIRE 1" CONDUIT WHEN DOUBLE RUNS ARE REQUIRED (LONG RUNS)
 - REFER TO APPROPRIATE EQUIPMENT SPECIFICATIONS TO ENSURE THAT THE MOST CURRENT & DETAILED INFORMATION OF THIS LIGHT SYSTEM IS UTILIZED

***ALL LIGHT MOUNTS (B) REQUIRE 2 J-HOOKS EACH, 8" APART -OR- EQUIVALENT SUSPENSION POINTS ABOVE THE STRUCTURAL MOUNTING PLATE

- SHEET NOTES**
- TOUCH PANEL MUST BE LOCATED WITHIN 75" OF HV1000 BASE UNIT
 - HUBBELL - RACO 698 4 GANG JUNCTION BOXES USED FOR FIBER SOLUTIONS
 - HUBBELL - RACO 698 4 GANG JUNCTION BOXES REQUIRE CONDUIT TO ENTER ON THE RIGHT HALF OF THE BOX
 - HUBBELL - RACO 698 4 GANG JUNCTION BOXES REQUIRE 2" MINIMUM SERVICE CLEARANCE AROUND ALL SIDES OF THE BOX
 - EMERGENCY POWER REQUIRED FOR LEVITON BOX
 - A 24" X 24" HINGED ACCESS PANEL IS REQUIRED AT ALL MOUNTS. COORDINATE LOCATION & PARAMETERS OF ACCESS PANELS FOR MOUNTS AND ELECTRICAL BOXES WITH STERIS REPRESENTATIVE



SPEAKER PLACEMENT (G1-G4)
FOR REFERENCE ONLY; SITE
VERIFY

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| | | | | | | | | | | | |
|---|------------------|---------------------------------|---------------|---|--|--------------|-------|-----|------|------|-----------|
| 5960 Heisley Road Mentor, OH 44060 USA 800-548-4873 | REVISION SUMMARY | | | HV1000 INTEGRATION SYSTEM PROPOSED OPERATING ROOM #17 LAYOUT [A115] | IMH PRIMARY CHILDRENS HOSPITAL SALT LAKE CITY, UTAH | 3824D3R1-INT | | | | | |
| | REVISION # | DESCRIPTION | DESIGNER/DATE | | | CHECKER | DR | JTP | CK | DATE | 14MAR2024 |
| | 1 | ADDED INTEGRATION FUNCTIONALITY | JTP/14MAR2024 | | | | SCALE | NTS | PAGE | 02 | |

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 OR 17

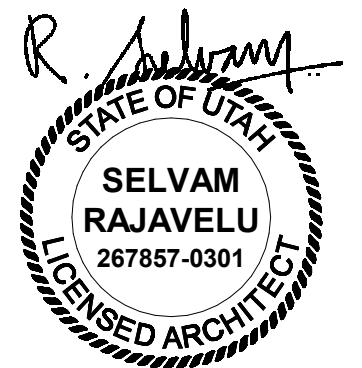
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 Salt Lake City, UT 84113

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Equipment
Drawings

EQ105

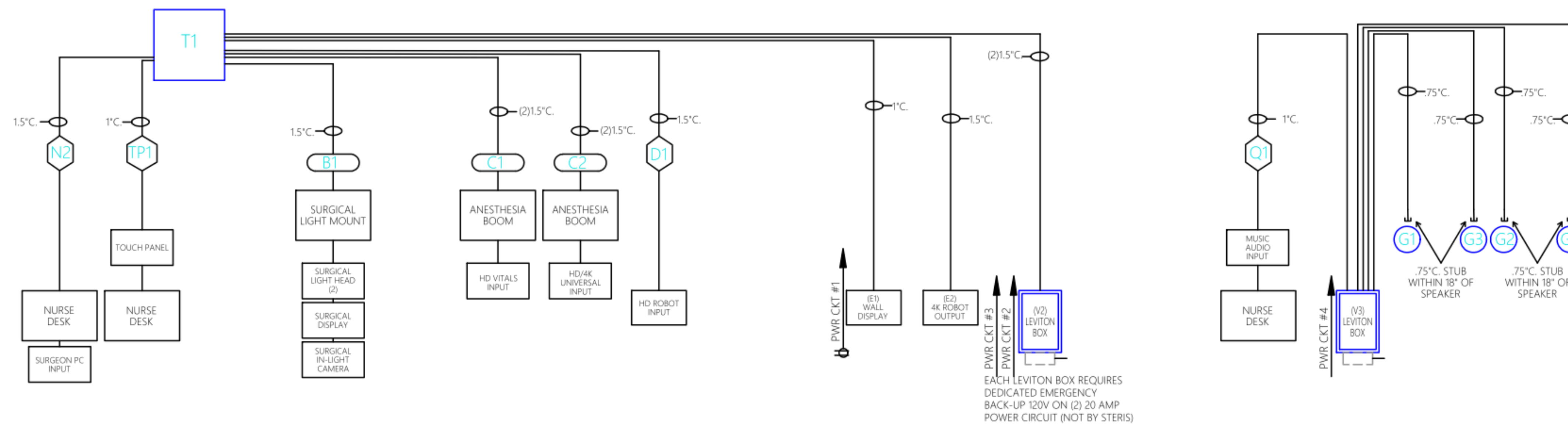
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| INTEGRATION EQUIPMENT SCHEDULE | | |
|--------------------------------|---|-----------------------|
| LEGEND | DESCRIPTION | RESPONSIBILITY |
| B1*** | SURGICAL LIGHT MOUNT | STERIS |
| C1*** | ANESTHESIA BOOM | STERIS |
| C2*** | ANESTHESIA BOOM | STERIS |
| D1 | WALL MOUNTED HUBBELL - RACO 698 4 GANG JUNCTION BOX FOR HD ROBOT INPUT | ELECTRICAL CONTRACTOR |
| E1 | WALL MOUNTED DISPLAY | STERIS |
| E2 | WALL MOUNTED 4 1/16" JUNCTION BOX WITH SINGLE GANG MUD RING REQUIRED FOR WALL MOUNTED DISPLAY | ELECTRICAL CONTRACTOR |
| E2 | WALL MOUNTED 4 1/16" JUNCTION BOX WITH SINGLE GANG MUD RING REQUIRED FOR 4K ROBOT OUTPUT | ELECTRICAL CONTRACTOR |
| G1 | CEILING MOUNTED SPEAKER | STERIS |
| G3 | CEILING MOUNTED SPEAKER | STERIS |
| G2 | CEILING MOUNTED SPEAKER | STERIS |
| G4 | CEILING MOUNTED SPEAKER | STERIS |
| K1 | SURGICAL LIGHT CONTROLLER | STERIS |
| N2 | WALL MOUNTED HUBBELL - RACO 698 4 GANG JUNCTION BOX FOR SURGEON PC INPUT | ELECTRICAL CONTRACTOR |
| Q1 | WALL MOUNTED 4 1/16" JUNCTION BOX WITH DOUBLE GANG MUD RING USED FOR AUDIO | ELECTRICAL CONTRACTOR |
| T1 | 12"H x 12"W x 6"D JUNCTION BOX ABOVE CEILING | ELECTRICAL CONTRACTOR |
| | TOUCH PANEL | STERIS |
| TP1 | WALL MOUNTED 4 1/16" JUNCTION BOX WITH DOUBLE GANG MUD RING REQUIRED FOR TOUCH PANEL | ELECTRICAL CONTRACTOR |
| V2 | WALL MOUNTED LEVITON BOX FOR STERIS POWER DISTRIBUTION | ELECTRICAL CONTRACTOR |
| V3 | LEVITON BOX FOR STERIS AUDIO DISTRIBUTION | ELECTRICAL CONTRACTOR |

SHEET NOTES

- TOUCH PANEL MUST BE LOCATED WITHIN 75' OF HV1000 BASE UNIT
- HUBBELL - RACO 698 4 GANG JUNCTION BOXES USED FOR FIBER SOLUTIONS
- HUBBELL - RACO 698 4 GANG JUNCTION BOXES REQUIRE CONDUIT TO ENTER ON THE RIGHT HALF OF THE BOX
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A 24" X 24" HINGED ACCESS PANEL IS REQUIRED AT ALL MOUNTS. COORDINATE LOCATION & PARAMETERS OF ACCESS PANELS FOR MOUNTS AND ELECTRICAL BOXES WITH STERIS REPRESENTATIVE



STERIS IS NOT RESPONSIBLE FOR SPEC-ING POWER OR DATA REQUIREMENTS OF NON-STERIS PROVIDED EQUIPMENT

| ABBREVIATIONS | |
|---------------|---------------------------|
| A.F.F. | = ABOVE FINISHED FLOOR |
| B.C.P. | = BLANK COVER PLATE |
| C. | = CONDUIT |
| C.P. | = COVER PLATE |
| C.K.T. | = CIRCUIT |
| E.C. | = ELECTRICAL CONTRACTOR |
| N.S.E. | = NURSE STATION EQUIPMENT |

| RISER LEGEND | | |
|--------------|-------------------------|-----------------------------------|
| SYMBOL | DESCRIPTION | MOUNTING/COMMENT |
| [Symbol] | CEILING ACCESS PANEL | FOR REQUIRED ACCESS TO BOXES |
| [Symbol] | EQUIPMENT LABEL | DENOTED CEILING MOUNT |
| [Symbol] | CONDUIT OR CABLE RUN | JUNCTION BOX REFERENCE |
| [Symbol] | CONDUIT STUB OUT | CONDUIT STUB OUT WITH BUSHING |
| [Symbol] | CEILING SPEAKER | CEILING, FLUSH, RECEPTACLE HEIGHT |
| [Symbol] | DUPLEX POWER RECEPTACLE | WALL, FLUSH, RECEPTACLE HEIGHT |
| [Symbol] | QUAD POWER RECEPTACLE | WALL, FLUSH, RECEPTACLE HEIGHT |
| [Symbol] | DATA/TELEPHONE BOX | WALL, FLUSH, RECEPTACLE HEIGHT |

| JUNCTION BOX SCHEDULE | | | |
|-----------------------|-------------------|---------------------|---------------|
| J-BOX # | SIZE | TYPE | MOUNTING |
| T1 | 12"H x 12"W x 6"D | NEMA 1, SCREW COVER | ABOVE CEILING |

JUNCTION BOX SCHEDULE NOTES

- ALL BOXES ARE PROVIDED BY THE CLIENTS CONTRACTOR UNLESS NOTED OTHERWISE
- MOUNTING REQUIREMENTS SHOWN ARE THE DEFAULT REQUIREMENTS UNLESS OTHERWISE NOTED/DETAILED
- ALL BOXES AND COVER PLATES ARE PROVIDED BY THE CLIENTS CONTRACTOR UNLESS NOTED OTHERWISE
- MOUNTING REQUIREMENTS SHOWN ARE THE DEFAULT REQUIREMENTS UNLESS OTHERWISE NOTED/DETAILED
- BOXES/OUTLETS/RECEPTACLES LOCATED ABOVE THE CEILING MUST BE WITHIN 18" OF THE CEILING AND BE ACCESSIBLE FROM THE SPACE BELOW; CLIENT/G.C. TO PROVIDE SUITABLE CEILING ACCESS PANELS AT DEVICE LOCATIONS
- T1 JUNCTION BOX - 12"H x 12"W x 6"D (MOUNTED VERTICALLY; NOT BY STERIS); 24" X 24" CEILING ACCESS PANEL REQUIRED FOR SERVICE ACCESS; ALL CONDUIT TO ENTER T1 BOX ANYWHERE EXCEPT FOR THE BACK SIDE; T1 BOX SHOULD NOT BE HIGHER THAN 12" ABOVE FINISHED FLOOR
NOT TO BE LOCATED DIRECTLY ABOVE NURSE DESKS OR ANY OTHER FIXED EQUIPMENT

CONDUIT NOTES

- IF A DIRECT CONNECTION IS NEEDED BETWEEN TWO PIECES OF EQUIPMENT, CONDUIT MUST BE RUN
- EXACT CONDUIT PATH DETERMINED BY ELECTRICAL CONTRACTOR
- CONDUIT SHOULD NOT EXCEED 50'
- MUST BE A PULL BOX FOR EVERY 270° OF CONDUIT BEND
- ALL CONDUITS SHOULD BE PROVIDED WITH PULL STRINGS AND MUST HAVE INSULATED BUSHINGS ON ALL OPEN ENDS
- USE OF FLEXIBLE CONDUIT IS NOT ACCEPTABLE
- STERIS WILL NOT BE RESPONSIBLE FOR FIRE STOPPING IN ANY FORM

STERIS
Healthcare Design Group
5960 Heisley Road
Mentor, OH 44060 USA
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| REVISION SUMMARY | | | |
|------------------|---------------------------------|---------------|---------|
| REVISION # | DESCRIPTION | DESIGNER/DATE | CHECKER |
| 1 | ADDED INTEGRATION FUNCTIONALITY | JTP/4MAR2024 | |

HV1000 INTEGRATION SYSTEM
PROPOSED OPERATING ROOM #17
CONDUIT RISER DIAGRAM

IMH PRIMARY CHILDRENS HOSPITAL
SALT LAKE CITY, UTAH

| | | | |
|--------------|-----|------|----------------|
| 3824D3R1-INT | | | |
| DR | JTP | CK | DATE 14MAR2024 |
| SCALE | NTS | PAGE | 03 |

Intermountain Healthcare
Primary Childrens Hospital
OR 17

100 Merino Capechi Dr.
Salt Lake City, UT 84113

NJRA Project # 23248.00
Construction Documents April 17, 2024

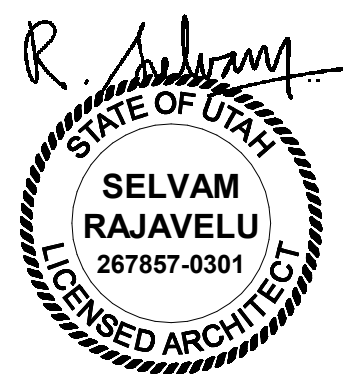
Equipment
Drawings

EQ106

FOR REFERENCE ONLY. CONTACT VENDOR STERIS FOR MORE INFORMATION.

STERIS drawings do not supersede the drawings from the architect of record.

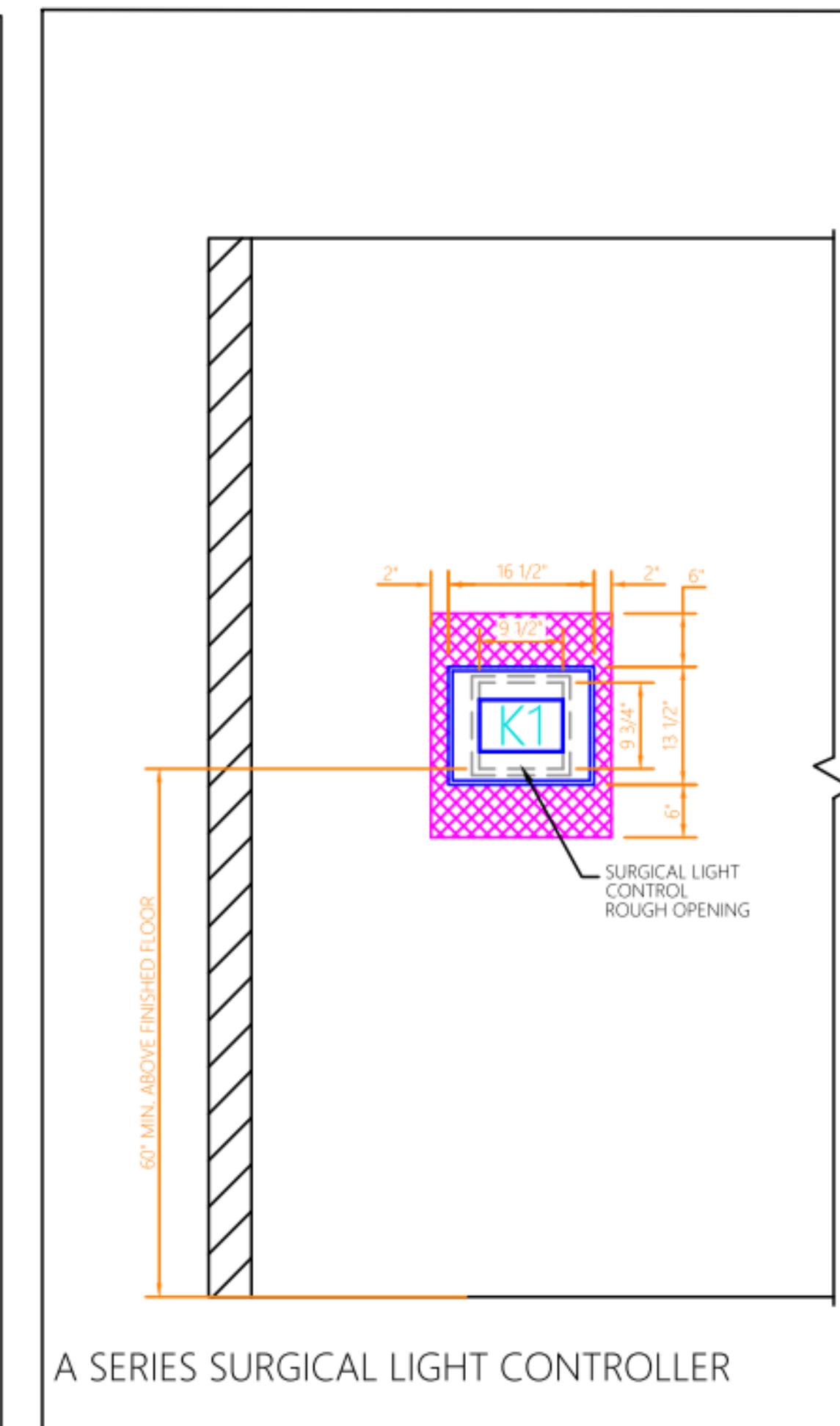
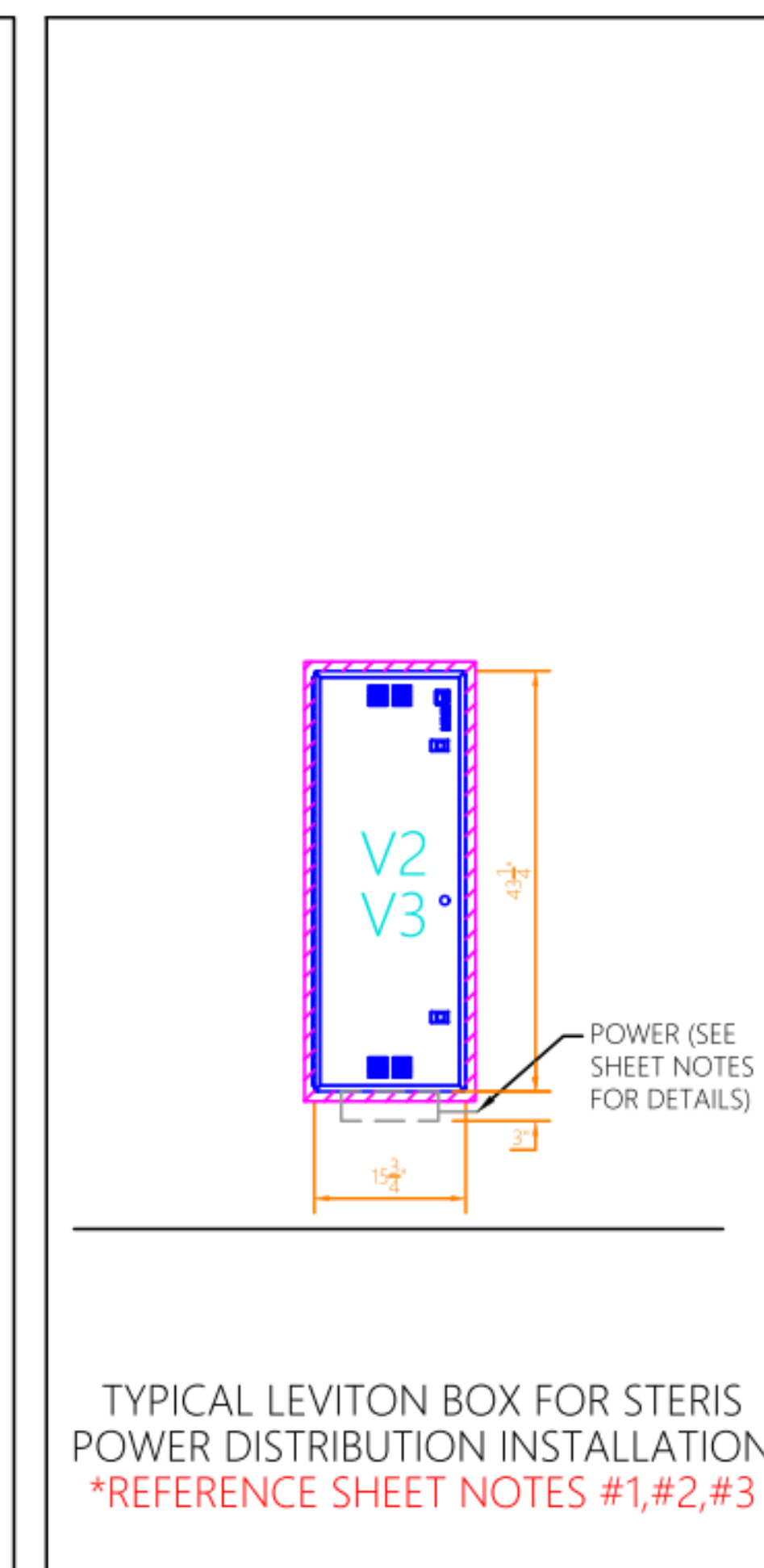
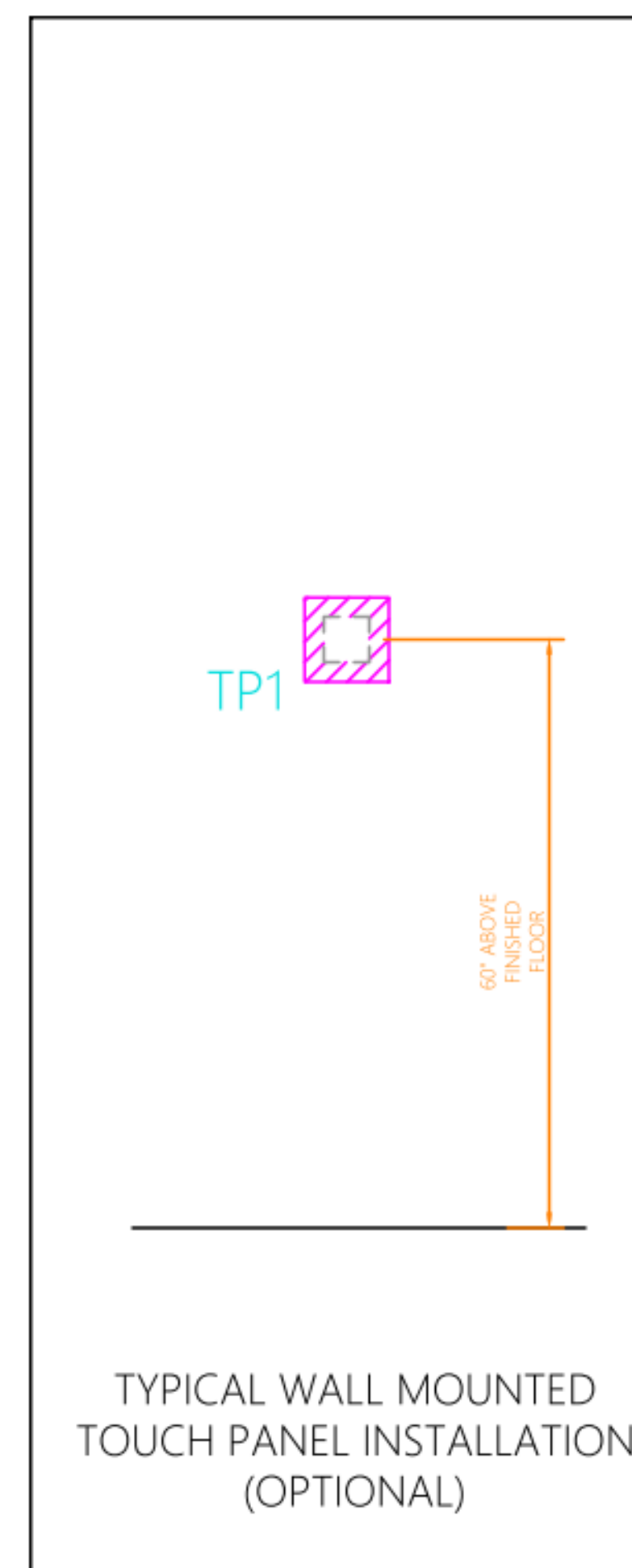
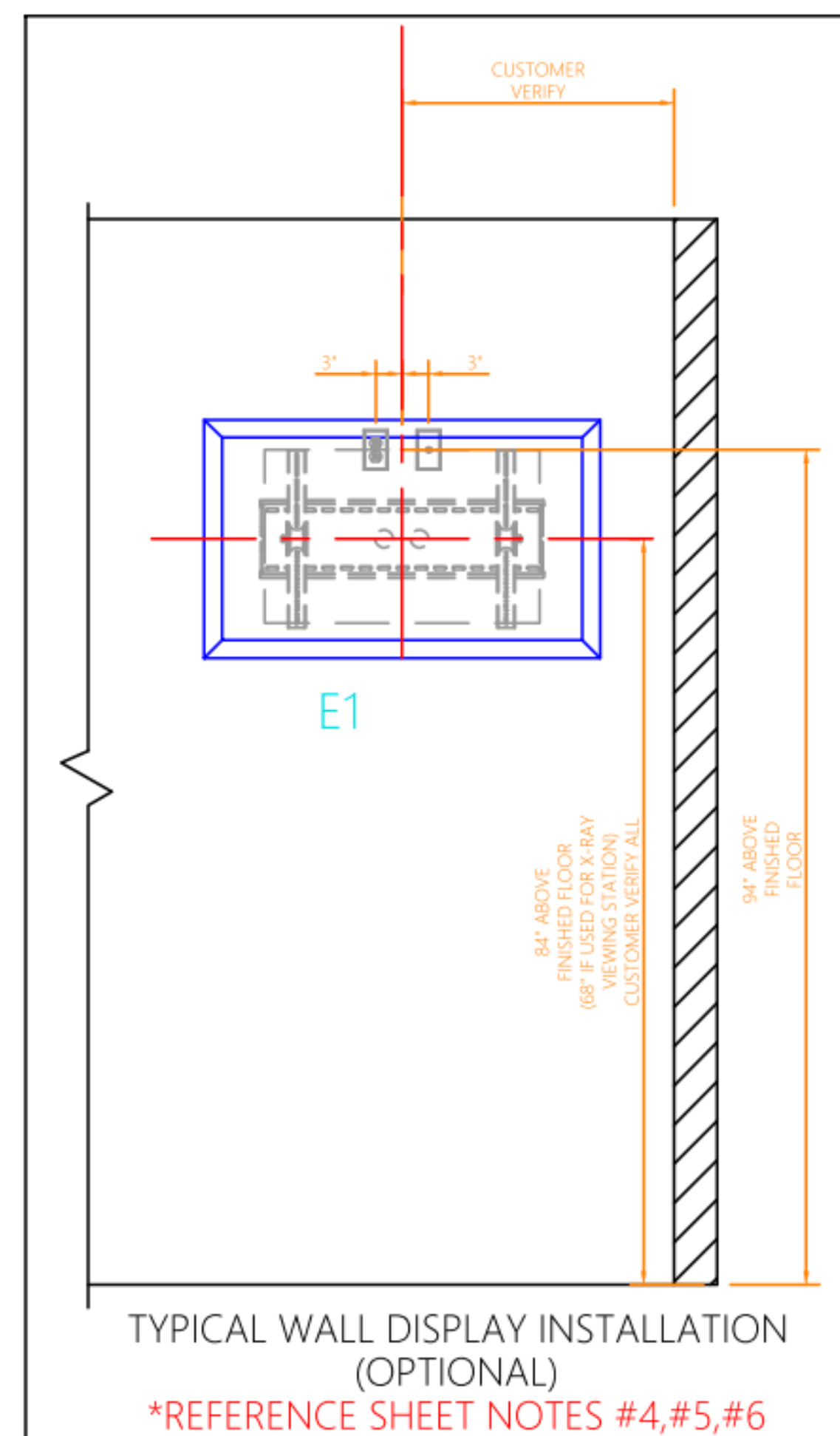
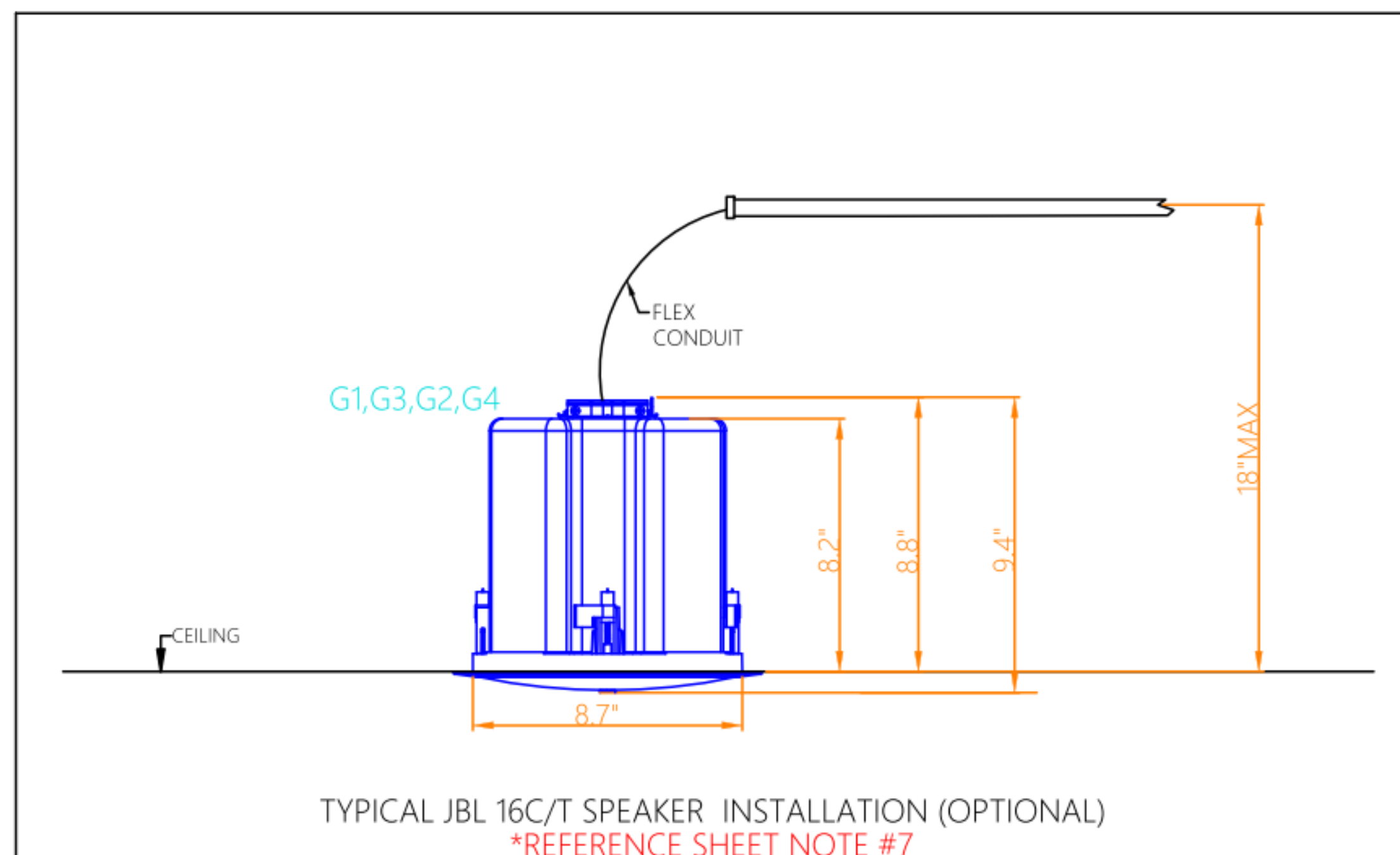
STERIS drawings do not supersede the drawings from the architect of record.



| EQUIPMENT SCHEDULE | | |
|--------------------|--|-----------------------|
| LEGEND | DESCRIPTION | RESPONSIBILITY |
| G1,G3,G2,G4 | CEILING SPEAKER, 8.7" DIAMETER x 8.8" HEIGHT, 7.4 LB | STERIS |
| E1 | WALL MOUNTED DISPLAY | STERIS |
| K1 | SURGICAL LIGHT CONTROLLER | STERIS |
| TP1 | WALL MOUNTED TOUCH PANEL | STERIS |
| V2 | LEVITON BOX FOR STERIS POWER DISTRIBUTION | ELECTRICAL CONTRACTOR |
| V3 | LEVITON BOX FOR STERIS AUDIO DISTRIBUTION | ELECTRICAL CONTRACTOR |

SHEET NOTES

- EACH LEVITON BOX REQUIRES DEDICATED EMERGENCY BACK-UP 120V ON (2)20 AMP POWER CIRCUITS FROM THE O.R. IT SERVES (NOT BY STERIS)
- LEVITON BOX (NOT BY STERIS) WITH VENTED DOOR FOR STERIS POWER & AUDIO DISTRIBUTION; BOX PRODUCT NUMBER: 47605-42N (REQUIRES MINIMUM 2" SERVICE CLEARANCE); DOOR (NOT BY STERIS) PRODUCT NUMBER: 47605-42S; LEVITON AC DUAL POWER MODULE (NOT BY STERIS - BOLTED TO BOTTOM OF LEVITON BOX - LOCATED INSIDE OF WALL) PRODUCT NUMBER: 47605-DP
- LEVITON BOX REQUIRES CONDUIT TO ENTER FROM THE TOP RIGHT OF THE BOX
- WALL DISPLAY BACKING TO BE PROVIDED AND INSTALLED BY CONTRACTOR; WALL DISPLAY BACKING (NOT BY STERIS) MUST SUPPORT A 250LBS LOAD; WALL BRACKET NOT INSTALLED BY STERIS
- WALL DISPLAY & PTZ CAMERA REQUIRES 4 11/16" JUNCTION BOX WITH SINGLE GANG MUD RING
- WALL DISPLAY REQUIRES DUPLEX OUTLET 120 VAC ON 20 AMP SERVICE (STANDARD OR EMERGENCY)
- FINAL SPEAKER LOCATIONS TO BE DECIDED BY ARCHITECT/CONTRACTOR; CONTRACTOR TO STUB OUT ~ 18" ABOVE FINISHED CEILING FOR SPEAKER CONNECTION; CONTRACTOR TO PROVIDE AND INSTALL SEISMIC SUPPORT WIRE FOR SPEAKER ANCHORING TO THE BUILDING STRUCTURE; CONTRACTOR TO CUT ROUND HOLE IN CEILING AT THE SPEAKER LOCATION ACCORDING TO THE SPEAKER INSTALLATION TEMPLATE REQUIRES FLEXIBLE CONDUIT WITH CONNECTOR ON SPEAKER END (NOT BY STERIS; TYPICAL AT EACH SPEAKER LOCATION)



STERIS drawings do not supersede the drawings from the architect of record.

STERIS drawings do not supersede the drawings from the architect of record.

STERIS
Healthcare Design Group
5960 Heisley Road
Mentor, OH 44060 USA
800-548-4873

| REVISION SUMMARY | | | |
|------------------|---------------------------------|---------------|---------|
| REVISION # | DESCRIPTION | DESIGNER/DATE | CHECKER |
| 1 | ADDED INTEGRATION FUNCTIONALITY | JTP/14MAR2024 | |

HV1000 INTEGRATION SYSTEM
PROPOSED EQUIPMENT
INSTALLATION DETAILS

IMH PRIMARY CHILDRENS HOSPITAL
SALT LAKE CITY, UTAH

| | | | |
|--------------|-----|-----|----------------|
| 3824D3R1-INT | | | |
| DR | JTP | CK | DATE 14MAR2024 |
| SCALE | | NTS | PAGE 04 |

Intermountain Healthcare
Primary Children's Hospital
OR 17

100 Merino Capechi Dr.
Salt Lake City, UT 84113

NJRA Project # 23248.00
Construction Documents April 17, 2024

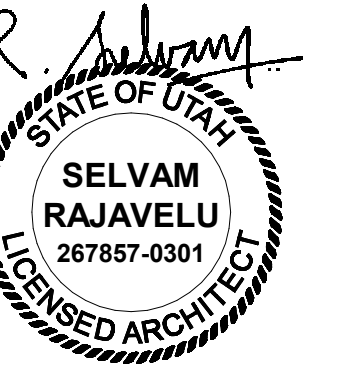
Equipment
Drawings

EQ107

FOR REFERENCE ONLY, CONTACT VENDOR STERIS FOR MORE INFORMATION.



NJRA Architects, Inc.
 5223 S. Ascension Way, Suite 350
 Murray, Utah 84123
 801.364.9259
 www.njraarchitects.com



STERIS drawings do not supersede the drawings from the architect of record.

STERIS drawings do not supersede the drawings from the architect of record.



IMH PRIMARY CHILDRENS HOSPITAL SALT LAKE CITY, UTAH

DRAWING INDEX

- 00 COVER
- 01 PROPOSED EQUIPMENT LAYOUT

SIGN OFF ACCEPTANCES

 _____ (OPTIONAL)
 _____ (OPTIONAL)

| | | | | | | | | | | | |
|---|--------------|-------------|--|--|----|-----|----|------|-----------|-------|--------------|
| <small>Healthcare Design Group 5900 Healey Road Mentor, OH 44050 USA 800-548-4873</small> | | COVER SHEET | IMH PRIMARY CHILDRENS HOSPITAL SALT LAKE CITY, UTAH | 3824D3 | | | | | | | |
| | | | | <table border="1"> <tr> <td>DR</td> <td>JAF</td> <td>CK</td> <td>DATE</td> <td>21FEB2024</td> </tr> <tr> <td>SCALE</td> <td colspan="2">NOT TO SCALE</td> <td>PAGE</td> <td>00</td> </tr> </table> | DR | JAF | CK | DATE | 21FEB2024 | SCALE | NOT TO SCALE |
| DR | JAF | CK | DATE | 21FEB2024 | | | | | | | |
| SCALE | NOT TO SCALE | | PAGE | 00 | | | | | | | |

Intermountain Healthcare
 Primary Children's Hospital
 OR 17

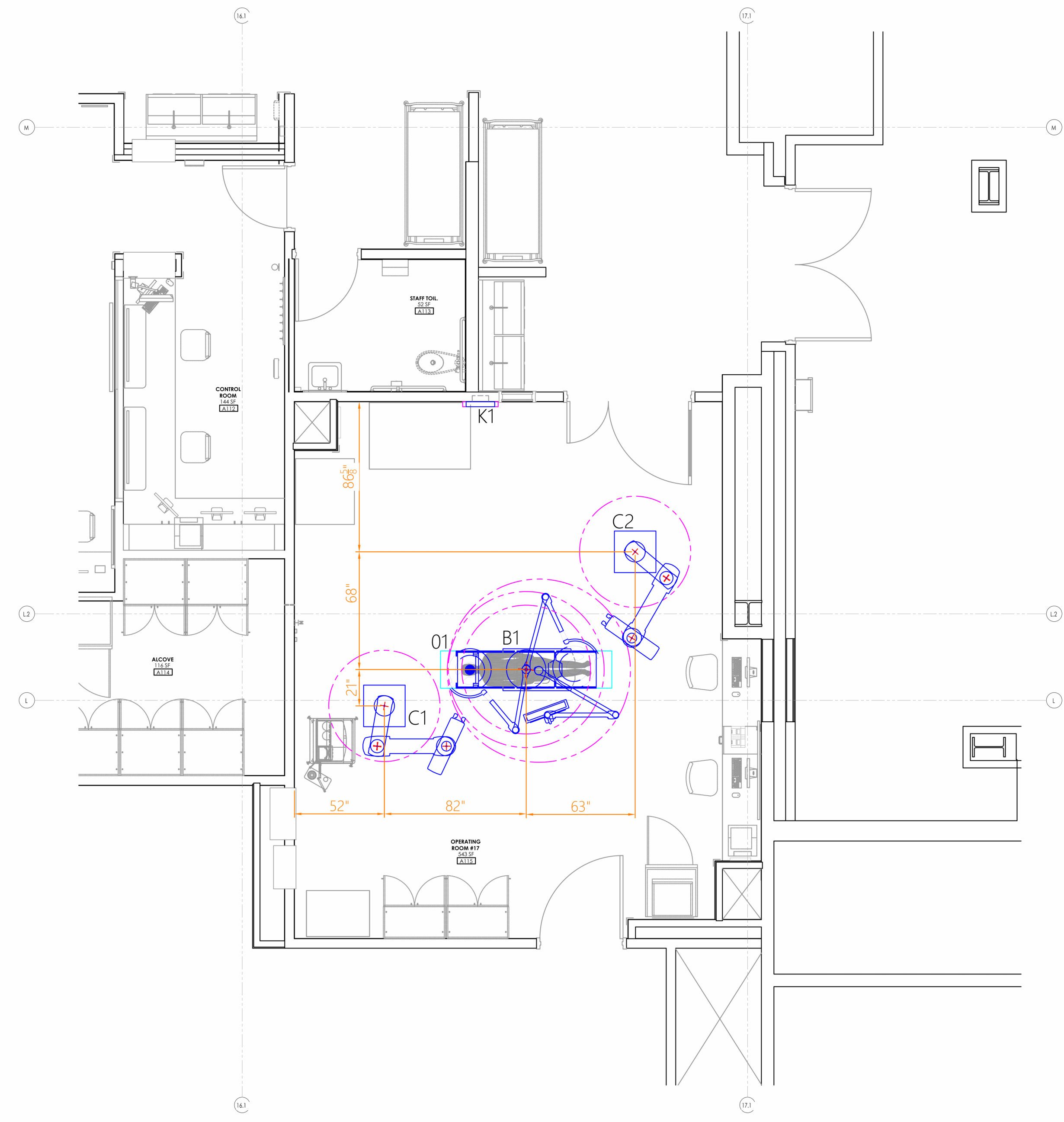
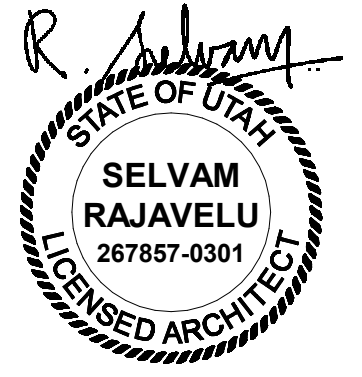
100 Merino Capechi Dr.
 Salt Lake City, UT 84113

NJRA Project # 23248.00
 Construction Documents April 17, 2024

Equipment
 Drawings

EQ108

4/18/2024 4:34:57 PM



| EQUIPMENT LIST | | | |
|----------------|-----|---|--|
| TAG | QTY | DESCRIPTION | |
| O1 | 1 | STERIS 4095 General Surgical Table | |
| B1 | 1 | A Series-Surgical Light(s), Accessory Arm(s) | |
| C1 | 1 | HarmonyAIR Adj Arm Spring-Anesthesia | |
| C2 | 1 | HarmonyAIR Adj Arm Spring-Anesthesia | |
| K1 | 1 | HarmonyAIR A-Series Touch Panel Control Unit (TPCU) - Integrated Wall Control | |

| A SERIES LIGHT CONDUIT SCHEDULE | | | |
|---------------------------------|----------|------|-----------------------|
| FROM - TO | QUANTITY | SIZE | RESPONSIBILITY |
| K1 - B1 | 2 | 75" | ELECTRICAL CONTRACTOR |

- LIGHT CONDUIT SCHEDULE NOTES**
- 1" CONDUIT FOR AC POWER TO ALL 3 COND. (BANK WIRE INPUT AC SUPPLY - 150V-240VAC, 7A-3A, 50/60HZ)
 - LIGHTING CONDUIT RUNS NOT TO EXCEED 25 FEET
 - CONDUIT REQUIREMENTS FOR LIGHTS AND CONNECT POINT ALSO REFERENCED WITHIN THE EQUIPMENT DRAWINGS FOR THE SPECIFIED SURGICAL LIGHT WALL CONTROL SYSTEM
 - DO NOT SUPPLY LIGHTHEAD CABLES REQUIRE 1" CONDUIT WHEN DOUBLE RUNS ARE REQUIRED (LONG RUNS)
 - REFER TO APPROPRIATE EQUIPMENT SPECIFICATIONS TO ENSURE THAT THE MOST CURRENT & DETAILED INFORMATION OF THIS LIGHT SYSTEM IS UTILIZED

STERIS drawings do not supersede the drawings from the architect of record.

STERIS drawings do not supersede the drawings from the architect of record.



OPERATING ROOM #17
PROPOSED EQUIPMENT LAYOUT

IMH PRIMARY CHILDRENS HOSPITAL
SALT LAKE CITY, UTAH

| | | |
|--------|--------------|---------|
| 3824D3 | | |
| DR | JAF | CK |
| DATE | 21FEB2024 | |
| SCALE | 1/4" = 1'-0" | PAGE 01 |

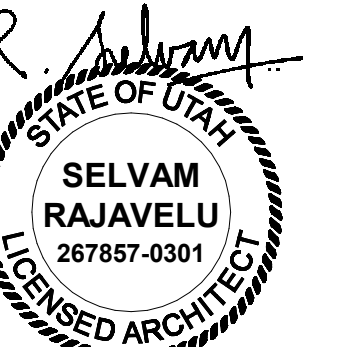
Intermountain Healthcare
Primary Children's Hospital
OR 17

100 Merino Capechi Dr.
Salt Lake City, UT 84113

NJRA Project # 23248.00
Construction Documents April 17, 2024

Equipment
Drawings

EQ109



Account Name: Primary Children's Hosp
Room Application: General OR
Room Numbers: 17
Quantity: 1
Date Required: 1/8/2024
Date Pre-Installation Items required: 1/8/2024
STERIS PO Number:
Customer PO:

Order Item No:
Customer Item Number:

STERIS Account Manager: Brady Barker
STERIS Project Manager:

Voice Mail:
Voice Mail:

THIS SIGNATURE CONFIRMS EQUIPMENT SPECIFICATIONS AND CEILING HEIGHT CONTAINED IN THIS DOCUMENT AND ACKNOWLEDGES THAT ANY CHANGES MAY RESULT IN ADDITIONAL TIME AND RELATED DELIVERY.

TITLE SHEET
HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1
DATE: 2/26/2024 SHEET 1 of 19

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| 5 | Gas Panel Details |
| 6 | Pin Charge Preinstall Items |
| 7 | Support Structure Mounting Height Detail |
| 8 | Support Structure Detail |
| 9 | Structure Plate Bolt Hole Pattern |
| 10 | Support Structure Engineering Requirements |
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| 16 | Electrical Details EMS United States Page 1 |
| 17 | Electrical Details EMS United States Page 2 |
| 18 | Gas Testing NFPA99 |
| 19 | HarmonyAIR Adjustable Arm Spring Chassis Ground Detail |

Special Instructions:

| Description | Part Number | Qty/Unit |
|--|-------------|----------|
| HarmonyAIR Single Mount Flush Cover | | 1 |
| Drop One Single Mount Supply Head, Spring Arm, 10E10G Outlets (3P) | HMBLPSHE10 | 1 |
| HarmonyAIR DZ 64 in Spring 24x40 in (600x1000mm) (100mm Bearing) | | 1 |
| HarmonyAIR Supply Head 10 (3P) (Adjustable Arm) | | 1 |
| HarmonyAIR SH Distance Tube 16" (Adjustable Arm) | | 1 |
| Electro-Mechanical Brakes | | 1 |

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HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1
DATE: 2/26/2024 SHEET 2 of 19

Accessory Placement to be determined at the time of installation by the STERIS PDM & AM. Each grid line above represents 3" distance.

| Drop #1 | Arm Description | Load (lbs) | Moment (ft-lbs) |
|--------------|--|------------|-----------------|
| | HarmonyAIR DZ 64 in Spring 24x40 in (600x1000mm) (100mm Bearing) | 483 | 1508 |
| TOTAL | | 483 | 1508 |

Mount Specific Load / Moment Values

| Drop #1 | Arm Description | Load (lbs) | Moment (ft-lbs) |
|--------------|--|------------|-----------------|
| | HarmonyAIR DZ 64 in Spring 24x40 in (600x1000mm) (100mm Bearing) | 483 | 1508 |
| TOTAL | | 483 | 1508 |

ELEVATION AND PLAN OVERVIEWS
HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1
DATE: 2/26/2024 SHEET 3 of 19

Drop #1

Electrical Divider Plate

| Electric | Qty | Type | Isolated | Total |
|-------------------|-----|-----------|----------|-------|
| Emergency Duplex | 5 | Emergency | Yes | 5 |
| Blue Duplex (LPS) | 2 | Standard | Yes | 2 |

| DATA | Qty |
|-------------|-----|
| Video Blank | 3 |

| EMS CIRCUIT TYPE | AMP | QTY |
|---|-----|-----|
| EMS (FIXED ARM) BRAKES - ELECTROMECHANICAL (EM) | 2 | |
| EMS SPRING ARM BRAKES - (EM) | 4 | 1 |
| EMS MOTORIZED ARM BRAKES - (EM) | 10 | |
| STANDARD - NORMAL | 20 | |
| STANDARD - ISOLATED | 20 | 1 |
| BLUE (LPS) - NORMAL | 20 | |
| BLUE (LPS) - ISOLATED | 20 | 1 |
| EMERGENCY - NORMAL | 20 | |
| EMERGENCY - ISOLATED | 20 | 3 |
| LASER OUTLET (NEMA LA-30R) | 30 | |
| AC SURGICAL MONITOR(S) | 30 | |

Circuit identification engraving and/or plates are provided and installed by others on site

ELECTRICAL OUTLET CONFIGURATION
HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1
DATE: 2/26/2024 SHEET 4 of 19

Gas Outlet Type: Latch (Chemetron)

| Gas | Qty | Type | Total |
|---------------|-----|------------------------|-------|
| Vacuum | 2 | Latch-Type (Chemetron) | 2 |
| Nitrous Oxide | 1 | Latch-Type (Chemetron) | 1 |
| Medical Air | 1 | Latch-Type (Chemetron) | 1 |
| Oxygen | 2 | Latch-Type (Chemetron) | 2 |
| WAGD | 1 | Latch-Type (Chemetron) | 1 |

| Domestic | Canada |
|--------------|-------------|
| From NFPA99 | From SCA |
| Table 5.1.11 | 273306.1-17 |

| Gas Type | Max | Recommended | Recommended | Qty |
|------------------|-------------------|--------------|--------------|-----|
| Carbon Dioxide | CO2 199 PSIG | 50-55 PSIG | 50-55 PSIG | 0 |
| Nitrogen | N 199 PSIG | 160-185 PSIG | 160-185 PSIG | 0 |
| Oxygen | O2 100 PSIG | 50-55 PSIG | 50-55 PSIG | 2 |
| Medical Air | MED 100 PSIG | 50-55 PSIG | 50-55 PSIG | 1 |
| Medical Air | AIR | | | |
| Nitrous Oxide | N2O 100 PSIG | 50-55 PSIG | 50-55 PSIG | 1 |
| WAGD (USA) | WAGD 20 IN HG | 12-15 IN HG | N/A | 1 |
| AGSS (CANADA) | AGSS 25 IN HG | 20-25 IN HG | 12-26 IN HG | 0 |
| VAC (USA) | VAC 20 IN HG | 12-15 IN HG | N/A | 2 |
| MED VAC (CANADA) | MED VAC 20 IN HG | 20-25 IN HG | 20-25 IN HG | 0 |
| Instrument Air | INST AIR 199 PSIG | 160-185 PSIG | N/A | 0 |

GAS OUTLET CONFIGURATION
HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1
DATE: 2/26/2024 SHEET 5 of 19

| Description | Part# | Qty/Unit | Total Qty |
|---|----------------|----------|-----------|
| HarmonyAIR Above Ceiling Pre-Install Electric Gas Kit | QR000000000022 | 1 | 1 |
| HarmonyAIR Above Ceiling Vacuum Gas Riser Assembly | QR000000000011 | 2 | 2 |
| HarmonyAIR Above Ceiling Oxygen Gas Riser Assembly | QR000000000012 | 2 | 2 |
| HarmonyAIR Above Ceiling N2O Gas Riser Assembly | QR000000000014 | 1 | 1 |
| HarmonyAIR Above Ceiling WAGD Gas Riser Assembly | QR000000000013 | 1 | 1 |
| HarmonyAIR Above Ceiling MA Gas Riser Assembly | QR000000000016 | 1 | 1 |

PREINSTALL ITEMS
HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1
DATE: 2/26/2024 SHEET 6 of 19

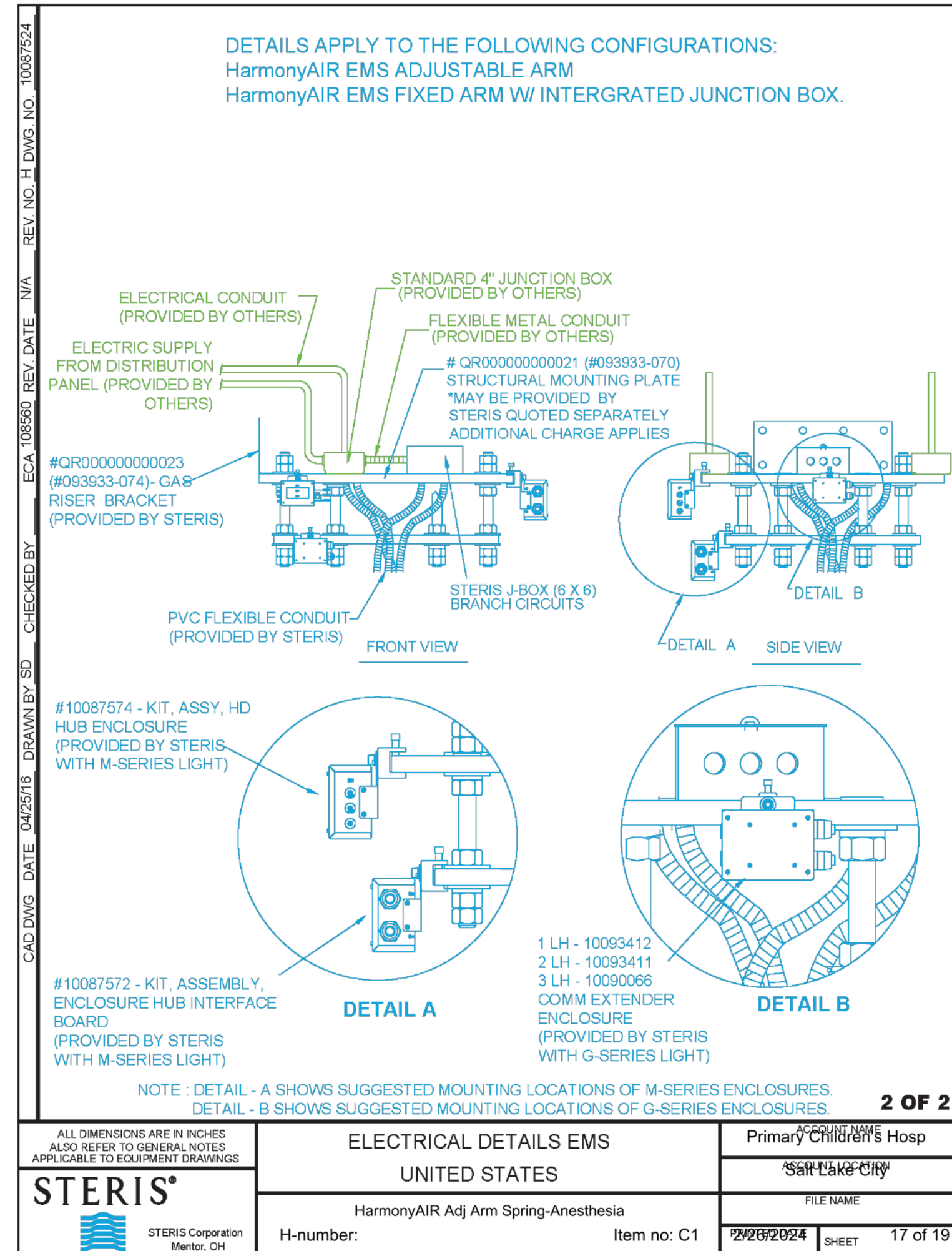
SUPPORT STRUCTURE MOUNTING HEIGHT
HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1
DATE: 2/26/2024 SHEET 7 of 19

SUPPORT STRUCTURE DETAIL
HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1
DATE: 2/26/2024 SHEET 8 of 19

Intermountain Healthcare
Primary Children's Hospital
OR 17

100 Mario Capechi Dr.
Salt Lake City, UT 84113

4/18/2024 4:30:14 PM



Released

Boom Tests per NFPA99

NFPA99 2018 edition section 5.1.12.2.6
Standing Pressure Test for Positive Pressure Medical Gas Piping

NFPA requires that installer performed testing be performed prior to the installation of manufactured assemblies supplied through flexible hose or flexible tubing. Installer performed tests include the 24-hour standing pressure test. This test is performed on piping up to and including the boom gas risers, but not with the boom flexible lines connected. This pressure drop test is for verification of the hard piping that supplies the boom, but not the boom itself.

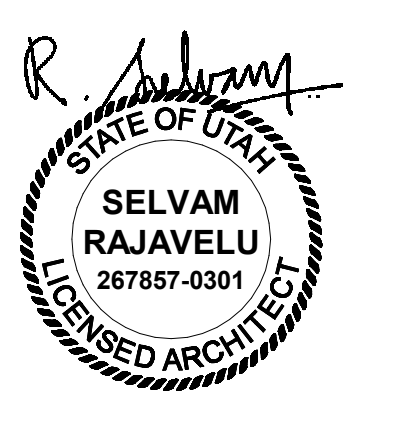
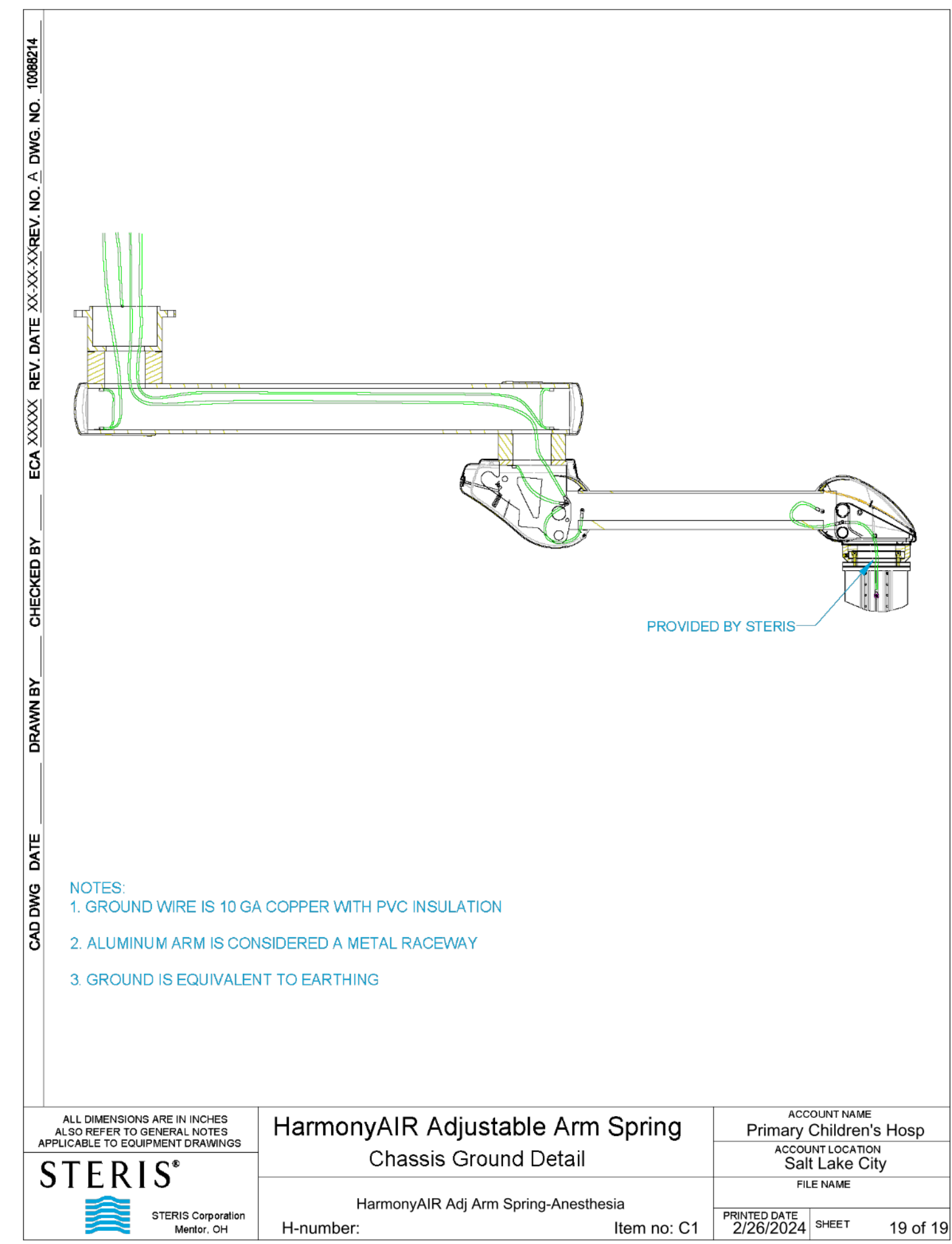
NFPA99 2018 edition section 5.1.12.4.2 **Standing Pressure Test**

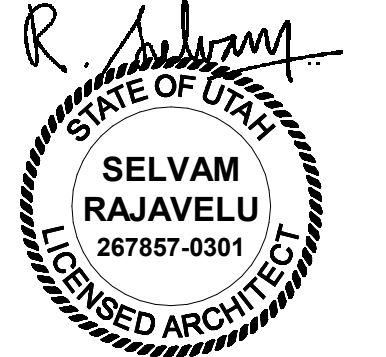
NFPA requires that standing pressure test for 10 minutes after installation of manufactured hose assemblies. After successful completion of the 24-hour pressure drop test of the hard piping up and including the gas risers, a subsequent pressure loss test for 10 minutes is done on the boom after the hose assemblies are connected to the gas risers.

NFPA99 2018 edition section 5.1.12.4.10 **Operational Flow Pressure Drop Test**

The gas outlets must flow at a minimum rate with a maximum pressure drop of 5 psi read at the gas outlet. This pressure drop is defined as the static pressure at the beginning of the test and the dynamic pressure during the flow test. This test requires that the facility pressure that supplies the boom during the test must remain constant when the test is performed. A pressure loss upstream during the test will result in a pressure loss at the gas outlet and should not be interpreted as a failure of the boom. Either the upstream piping must be improved to ensure a constant pressure during the test, or the pressure loss upstream must be subtracted from the pressure drop read at the gas outlet during the test.

| | | |
|---|---------------------------|---|
| STERIS CORPORATION Mentor, OH | GAS TESTING PER NFPA99 | Primary Children's Hosp Salt Lake City |
| H-number: HarmonyAIR Adj Arm Spring-Anesthesia Item no: C1 | 2/26/2024 | FILE NAME 2024451.A |
| | | PRINTED DATE: 2/26/2024 SHEET: 18 of 19 |






Account Name: Primary Children's Hosp
Room Application: General OR
Room Numbers: 17
Quantity: 1
Date Required: 1/8/2024
Date Pre-Installation Items required: 1/8/2024
STERIS PO Number:
Customer PO:

Order Item No:
Customer Item Number:

STERIS Account Manager: Brady Barker
STERIS Project Manager:

Voice Mail:

THIS SIGNATURE CONFIRMS EQUIPMENT SPECIFICATIONS AND CEILING HEIGHT CONTAINED IN THIS DOCUMENT AND ACKNOWLEDGES THAT ANY CHANGES MAY RESULT IN ADDITIONAL TIME AND RELATED DELIVERY.

TITLE SHEET
HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1 Copy 1
DATE: 1/17/2024 SHEET 1 of 19

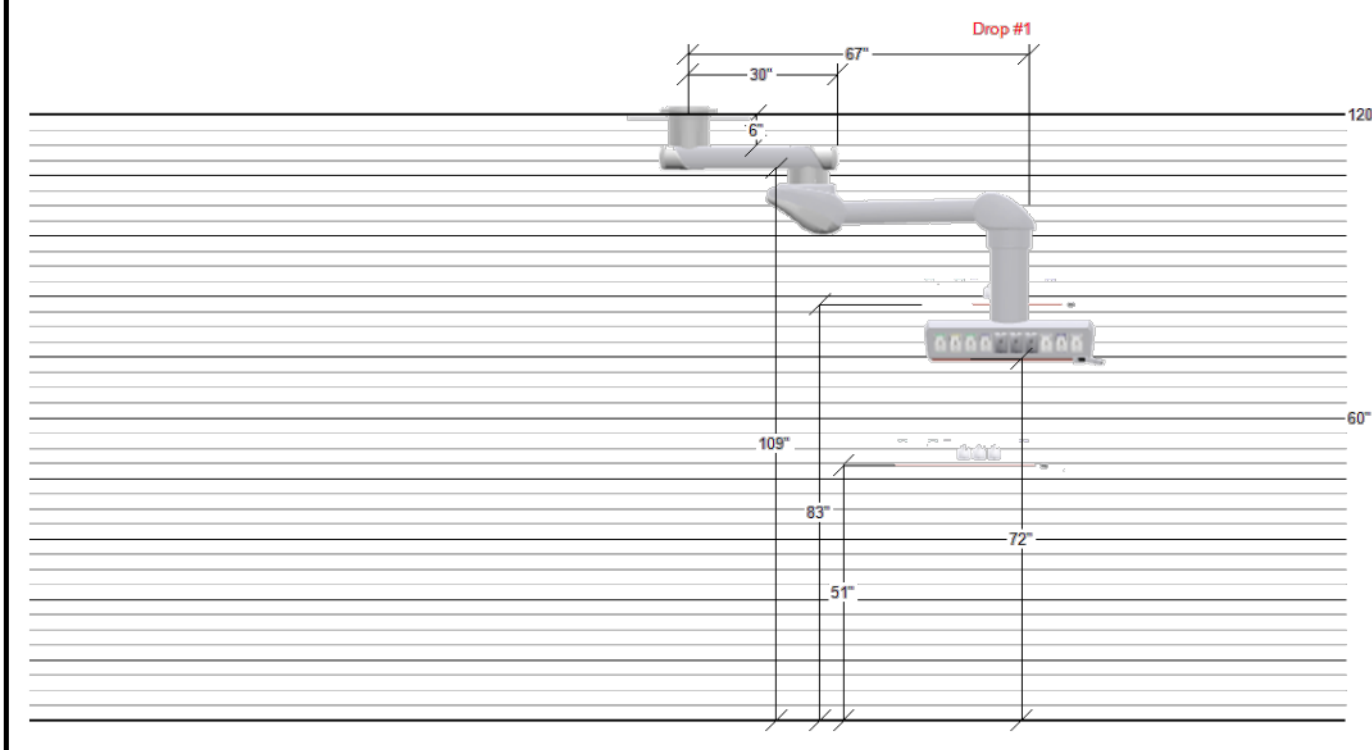
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| 15 | Gas Details Tandem EMS United States Page 2 |
| 16 | Electrical Details EMS United States Page 1 |
| 17 | Electrical Details EMS United States Page 2 |
| 18 | Gas Testing NFPA99 |
| 19 | HarmonyAIR Adjustable Arm Spring Chassis Ground Detail |

Special Instructions:

| Description | Part Number | Qty/Unit |
|--|-------------|----------|
| HarmonyAIR Single Mount Flush Cover | | 1 |
| Drop One | | |
| Single Mount Supply Head, Spring Arm, 10E10G Outlets (3P) | HMBLPSHE10 | 1 |
| HarmonyAIR DZ 64 in Spring 24x40 in (600x1000mm) (100mm Bearing) | | 1 |
| HarmonyAIR Supply Head 10 (3P) (Adjustable Arm) | | 1 |
| HarmonyAIR SH Distance Tube 16" (Adjustable Arm) | | 1 |
| Electro-Mechanical Brakes | | 1 |

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HarmonyAIR Adj Arm Spring-Anesthesia
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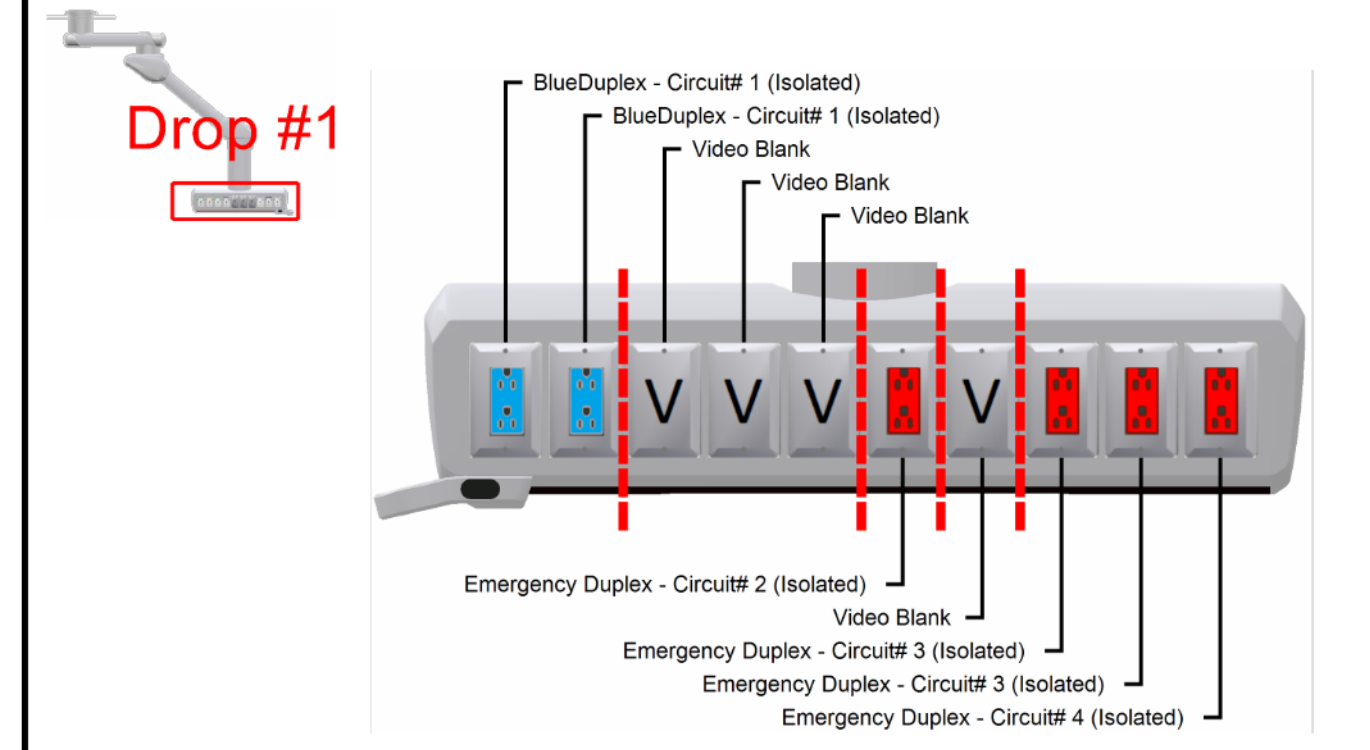


Accessory Placement to be determined at the time of installation by the STERIS PDM & AM. Each grid line above represents 3" distance.

Mount Specific Load / Moment Values

| Drop #1 | Arm Description | Load (lbs) | Moment (ft-lbs) |
|--------------|--|------------|-----------------|
| | HarmonyAIR DZ 64 in Spring 24x40 in (600x1000mm) | 483 | 1508 |
| TOTAL | | 483 | 1508 |

ELEVATION AND PLAN OVERVIEWS
HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1 Copy 1
DATE: 1/17/2024 SHEET 3 of 19

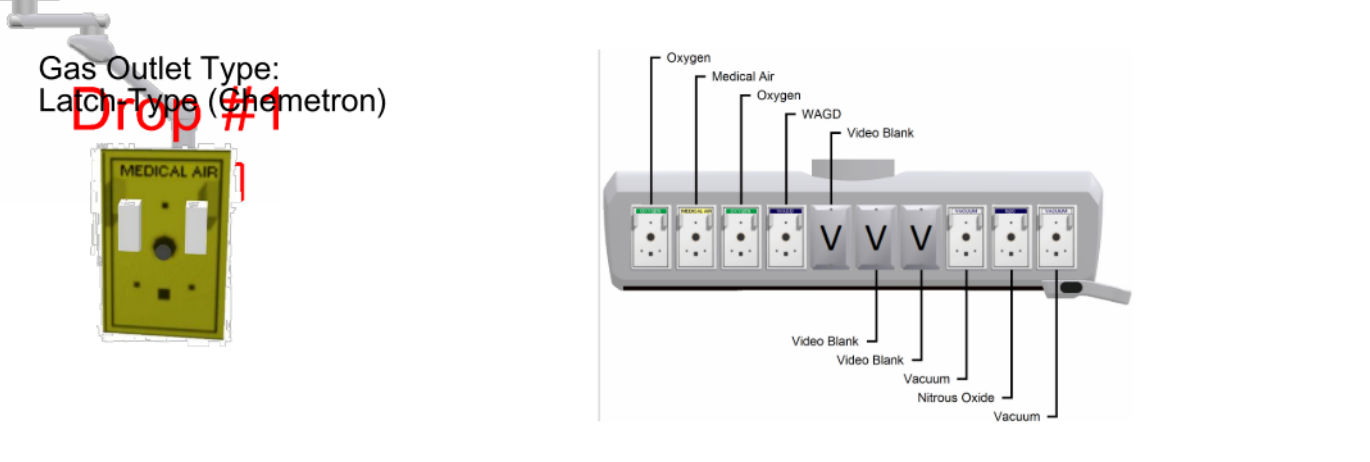


Electrical Divider Plate

| Electric | Qty | Type | Isolated | Total |
|-------------------|-----|-----------|----------|-------|
| Emergency Duplex | 4 | Emergency | Yes | 4 |
| Blue Duplex (UPS) | 2 | Standard | Yes | 2 |

| EMS CIRCUIT TYPE | AMP | QTY |
|--|-----|-----|
| EMS (FIXED ARM BRAKES - ELECTROMECHANICAL (EM) | 2 | |
| EMS SPRING ARM BRAKES - (EM) | 4 | 1 |
| EMS MOTORIZED ARM BRAKES - (EM) | 10 | |
| STANDARD - NORMAL | 20 | |
| STANDARD - ISOLATED | 20 | 1 |
| BLUE (UPS) - NORMAL | 20 | |
| BLUE (UPS) - ISOLATED | 20 | 1 |
| EMERGENCY - NORMAL | 20 | |
| EMERGENCY - ISOLATED | 20 | 3 |
| LASER OUTLET (NEMA L6-30R) | 30 | |
| AC SURGICAL MONITOR(S) | 30 | |

ELECTRICAL OUTLET CONFIGURATION
HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1 Copy 1
DATE: 1/17/2024 SHEET 4 of 19



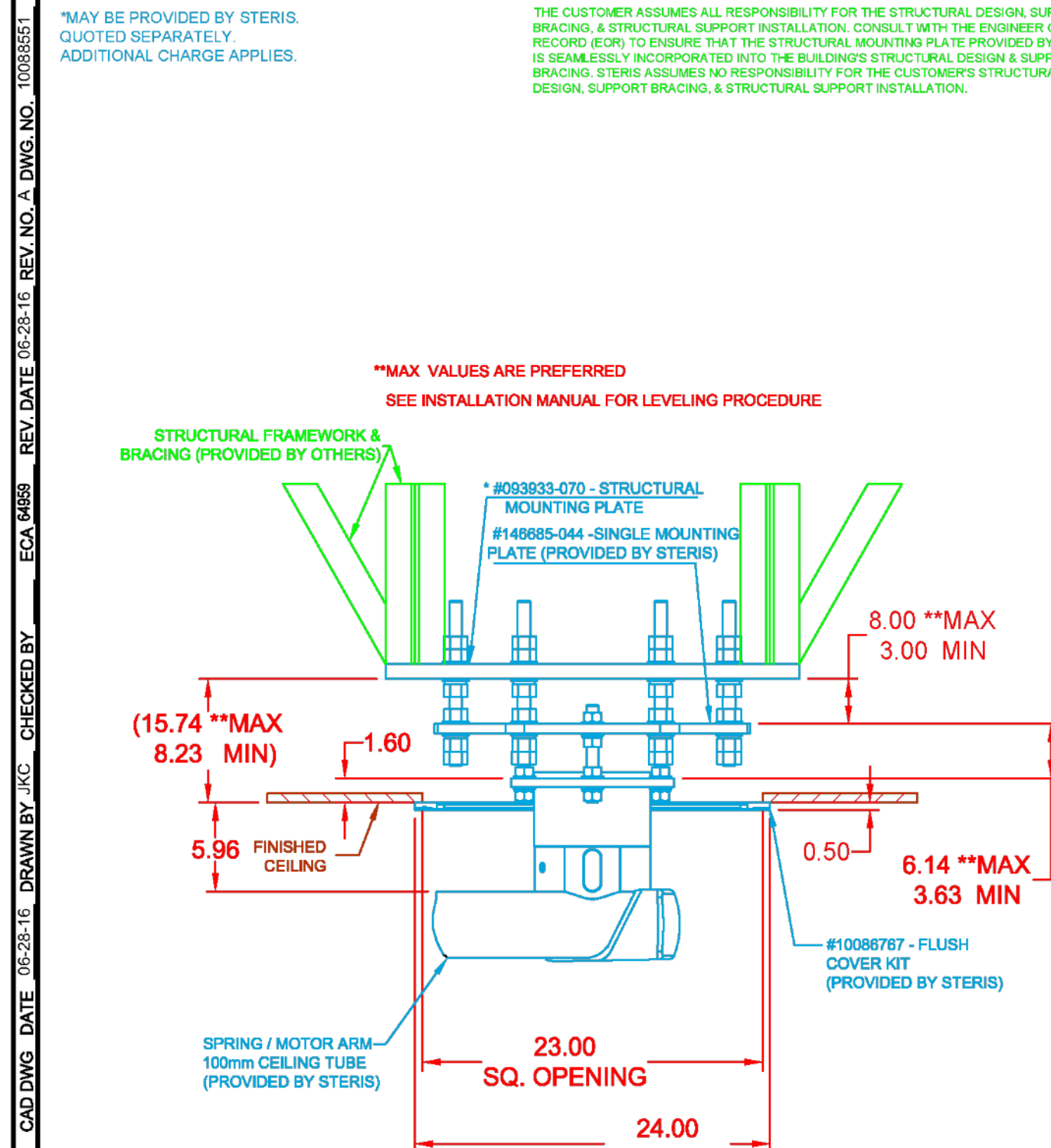
| Gas | Qty | Type | Total |
|---------------|-----|-----------------------|-------|
| Oxygen | 2 | Latch-Type (Chemtron) | 2 |
| Medical Air | 1 | Latch-Type (Chemtron) | 1 |
| Vacuum | 2 | Latch-Type (Chemtron) | 2 |
| WAGD | 1 | Latch-Type (Chemtron) | 1 |
| Nitrous Oxide | 1 | Latch-Type (Chemtron) | 1 |

| Gas Type | Max | Recommended | Recommended | Qty |
|------------------|-------------------|--------------|--------------|-----|
| Carbon Dioxide | CO2 199 PSIG | 50-55 PSIG | 50-55 PSIG | 0 |
| Nitrogen | N 199 PSIG | 160-185 PSIG | 160-185 PSIG | 0 |
| Oxygen | O2 100 PSIG | 50-55 PSIG | 50-55 PSIG | 2 |
| Medical Air | MED AIR 100 PSIG | 50-55 PSIG | 50-55 PSIG | 1 |
| Nitrous Oxide | N2O 100 PSIG | 50-55 PSIG | 50-55 PSIG | 1 |
| WAGD (USA) | WAGD 20 IN HG | 12-15 IN HG | N/A | 1 |
| AGSS (CANADA) | AGSS 25 IN HG | 20-25 IN HG | 12-26 IN HG | 0 |
| VAC (USA) | VAC 20 IN HG | 12-15 IN HG | N/A | 2 |
| MED VAC (CANADA) | MED VAC 20 IN HG | 20-25 IN HG | 20-25 IN HG | 0 |
| Instrument Air | INST AIR 199 PSIG | 160-185 PSIG | N/A | 0 |

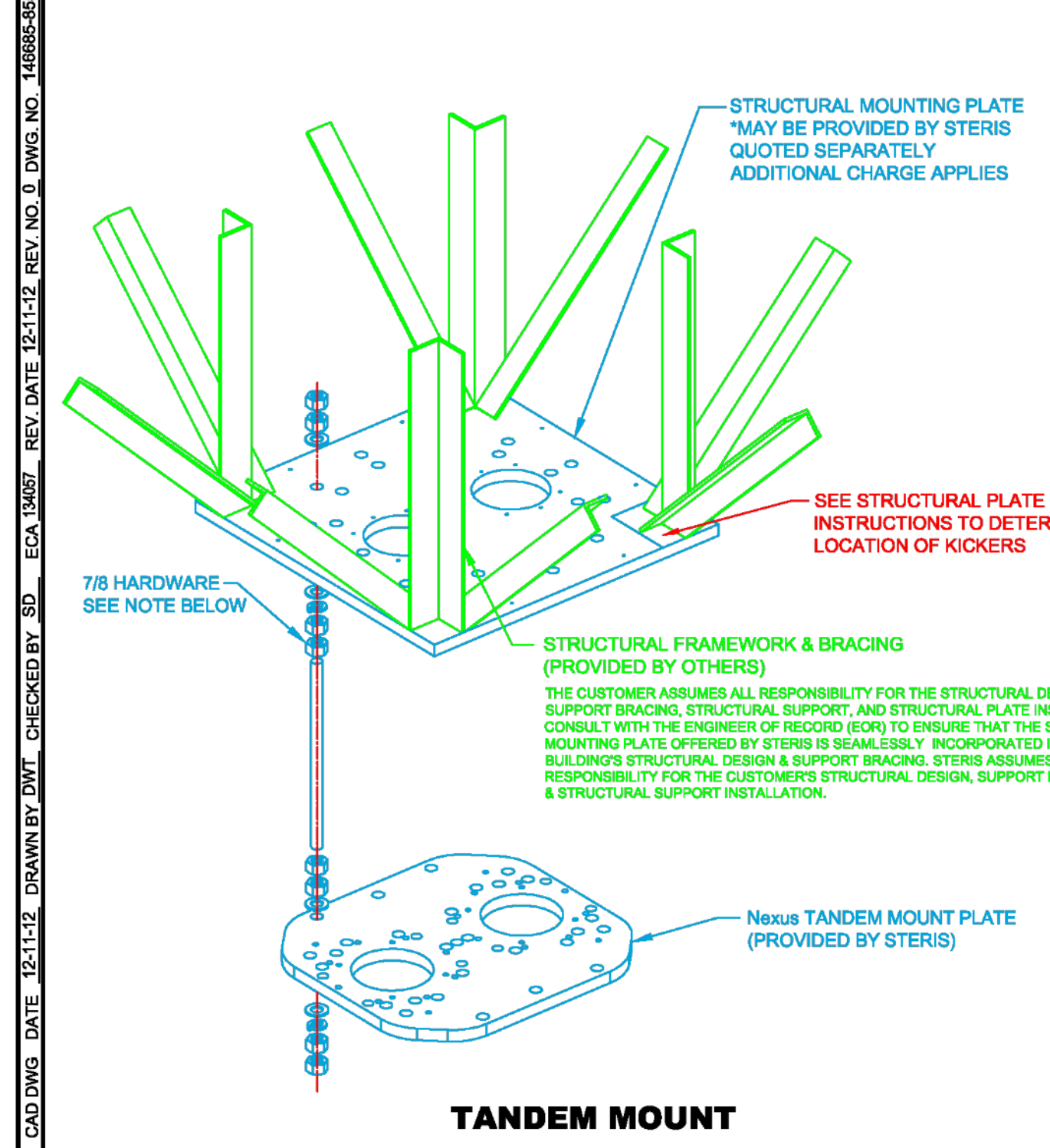
GAS OUTLET CONFIGURATION
HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1 Copy 1
DATE: 1/17/2024 SHEET 5 of 19

| Description | Part# | Qty/Unit | Total Qty |
|---|---------------|----------|-----------|
| HarmonyAIR Above Ceiling Pre-Install Electric Gas Kit | QR00000000022 | 1 | 1 |
| HarmonyAIR Above Ceiling Vacuum Gas Riser Assembly | QR00000000011 | 2 | 2 |
| HarmonyAIR Above Ceiling Oxygen Gas Riser Assembly | QR00000000012 | 2 | 2 |
| HarmonyAIR Above Ceiling MA Gas Riser Assembly | QR00000000016 | 1 | 1 |
| HarmonyAIR Above Ceiling WAGD Gas Riser Assembly | QR00000000013 | 1 | 1 |
| HarmonyAIR Above Ceiling N2O Gas Riser Assembly | QR00000000014 | 1 | 1 |

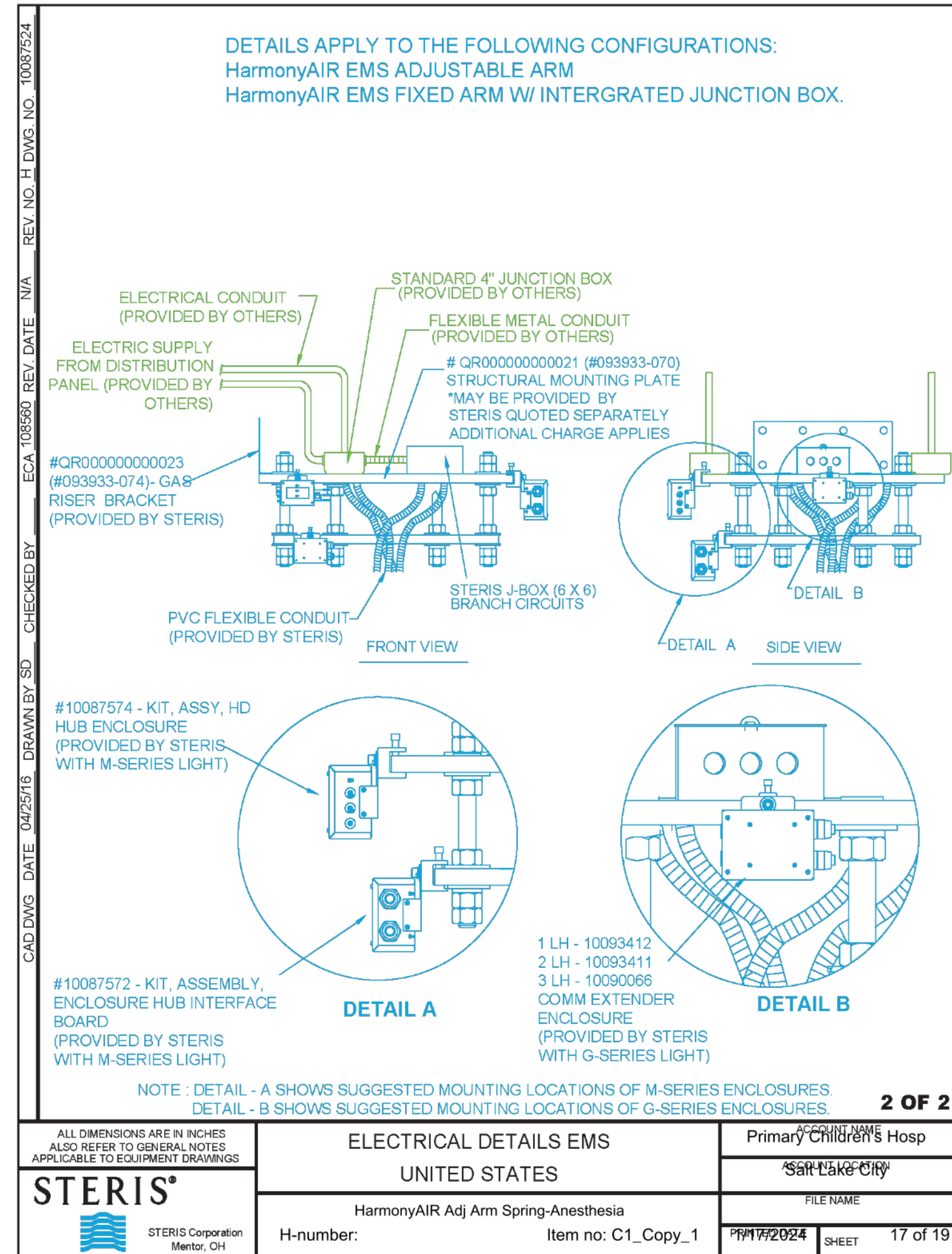
PREINSTALL ITEMS
HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1 Copy 1
DATE: 1/17/2024 SHEET 6 of 19



SUPPORT STRUCTURE MOUNTING HEIGHT
HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1 Copy 1
DATE: 1/17/2024 SHEET 7 of 19



SUPPORT STRUCTURE DETAIL
HarmonyAIR Adj Arm Spring-Anesthesia
H-number: Item no: C1 Copy 1
DATE: 1/17/2024 SHEET 8 of 19



Released

Boom Tests per NFPA99

NFPA99 2018 edition section 5.1.12.2.6 Standing Pressure Test for Positive Pressure Medical Gas Piping

NFPA requires that installer performed testing be performed prior to the installation of manufactured assemblies supplied through flexible hose or flexible tubing. Installer performed tests include the 24-hour standing pressure test. This test is performed on piping up to and including the boom gas risers, but not with the boom flexible lines connected. This pressure drop test is for verification of the hard piping that supplies the boom, but not the boom itself.

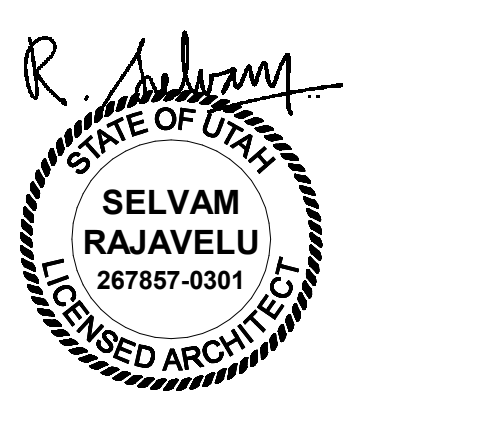
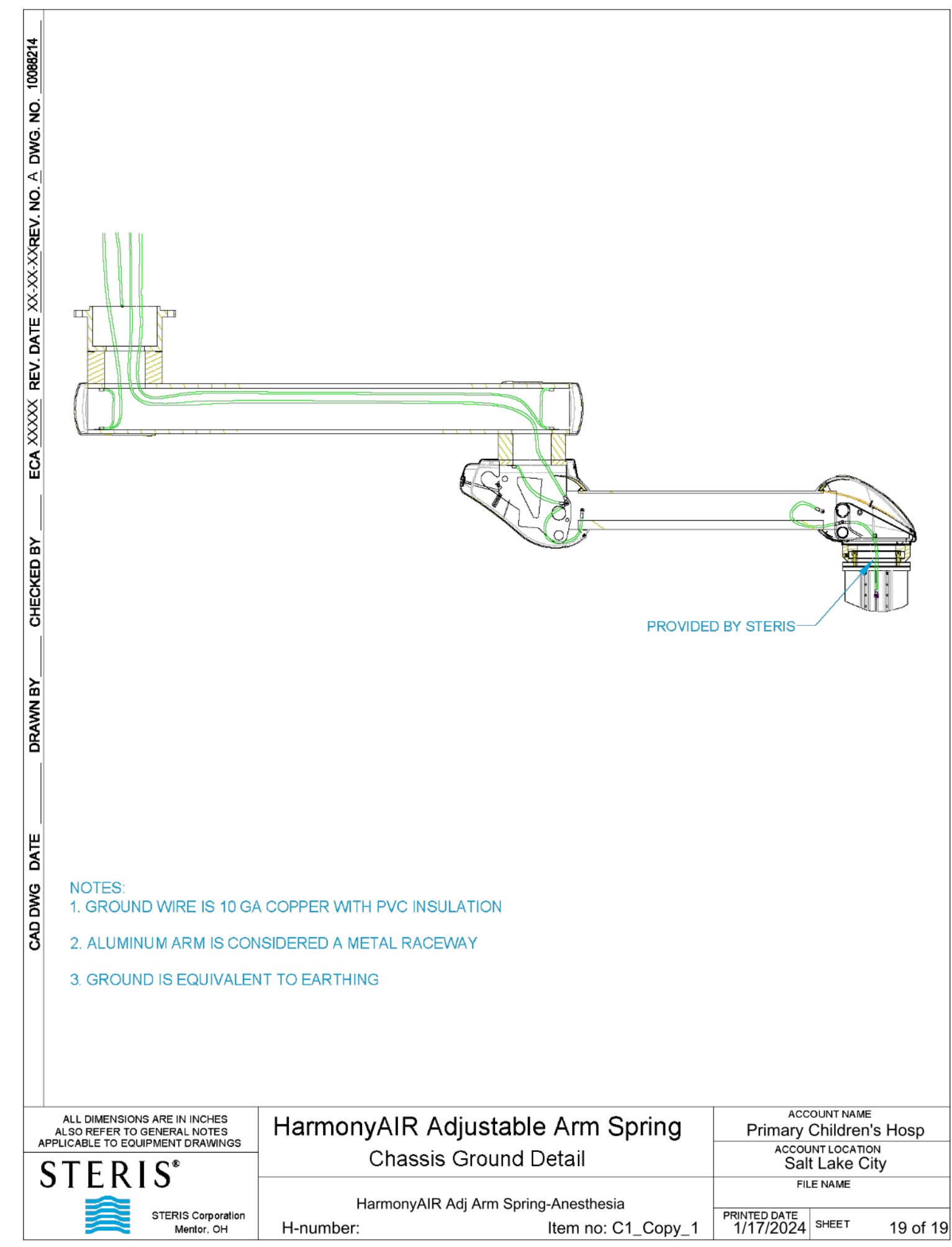
NFPA99 2018 edition section 5.1.12.4.2 Standing Pressure Test

NFPA requires that standing pressure test for 10 minutes after installation of manufactured hose assemblies. After successful completion of the 24-hour pressure drop test of the hard piping up and including the gas risers, a subsequent pressure loss test for 10 minutes is done on the boom after the hose assemblies are connected to the gas risers.

NFPA99 2018 edition section 5.1.12.4.10 Operational Flow Pressure Drop Test

The gas outlets must flow at a minimum rate with a maximum pressure drop of 5 psi read at the gas outlet. This pressure drop is defined as the static pressure at the beginning of the test and the dynamic pressure during the flow test. This test requires that the facility pressure that supplies the boom during the test must remain constant when the test is performed. A pressure loss upstream during the test will result in a pressure loss at the gas outlet and should not be interpreted as a failure of the boom. Either the upstream piping must be improved to ensure a constant pressure during the test, or the pressure loss upstream must be subtracted from the pressure drop read at the gas outlet during the test.

| | | |
|--|---------------------------|---|
| STERIS CORPORATION Mentor, OH | GAS TESTING PER NFPA99 | Primary Children's Hosp Salt Lake City |
| H-number: HarmonyAIR Adj Arm Spring-Anesthesia Item no: C1_Copy_1 | FILE NAME | 18 of 19 |
| 1/17/2024 | | |



Account Name: Primary Children's Hosp
Room Application: General OR
Room Numbers: 17
Quantity: 1
Date Required: 1/8/2024
Date Pre-Installation Items Required: 1/8/2024
STERIS PO Number:
Customer PO:
STERIS Account Manager: Brady Barker
STERIS Project Manager:

Order Item No:
Customer Item Number:
Voice Mail:
Voice Mail:

THIS SIGNATURE CONFIRMS EQUIPMENT SPECIFICATIONS AND CEILING HEIGHT CONTAINED IN THIS DOCUMENT AND ACKNOWLEDGES THAT ANY CHANGES MAY RESULT IN ADDITIONAL TIME AND RELATED DELIVERY.

1. STERIS RECOMMENDS INSTALLATION DURING EARLY PHASE OF CONSTRUCTION.
2. STERIS ASSUMES NO RESPONSIBILITY FOR CHANGES MADE NECESSARY THROUGH FAILURE TO OBSERVE INSTALLATION INSTRUCTIONS. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO INSURE THAT UNITS ARE INSTALLED IN ACCORDANCE WITH STATE AND LOCAL CODE.

ALL DIMENSIONS ARE IN INCHES. ALSO REFER TO GENERAL NOTES APPLICABLE TO EQUIPMENT DRAWINGS.

STERIS Corporation
 TITLE SHEET
 A Series-Surgical Light(s), Accessory Arm(s)
 H-number: Item no. B1
 PRINTED DATE: 3/13/2024
 SHEET: 1 of 12

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| 5 | HarmonyAIR A-Series Standard Mount Detail |
| 6 | HarmonyAIR A-Series Support Structure Detail |
| 7 | HarmonyAIR A-Series Ceiling Access Detail |
| 8 | HarmonyAIR A-Series Structural and Ceiling Plate Bolt Hole Patterns |
| 9 | HarmonyAIR A-Series Structural Plate Instructions |
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| 11 | HarmonyAIR A-Series Powered Accessory Based Spindle Detail |
| 12 | HarmonyAIR A-Series SPPM Spring Arm and Yoke Detail |

Special Instructions:

| Drop One | Description | Part Number | Qty/Unit |
|----------|---|-------------|----------|
| Drop One | HarmonyAIR A-Series HD Dual Light (43"L, 35"W), 13" Drop Tube | LAH01N01 | 1 |
| Drop Two | HarmonyAIR A-Series Drop Tube 5.0" | LES00050 | 1 |
| | HarmonyAIR A-Series 51" Auxiliary Arm for Accessory | LAS0087 | 1 |
| | HarmonyAIR A-Series Single Flat Panel Monitor Mount | LES0023 | 1 |

ALL DIMENSIONS ARE IN INCHES. ALSO REFER TO GENERAL NOTES APPLICABLE TO EQUIPMENT DRAWINGS.

STERIS Corporation
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 A Series-Surgical Light(s), Accessory Arm(s)
 H-number: Item no. B1
 PRINTED DATE: 3/13/2024
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Mount Specific Load / Moment Values

| Drop #1 | Arm Description | Load (lbs) | Moment (ft-lbs) |
|---------|--|------------|-----------------|
| Drop #1 | A-Series HD Camera Ready 43" Light Arm & 35.0" Light Arm | 266 | 639 |
| Drop #2 | A-Series 51" Auxiliary Accessory Arm 1 | 136 | 612 |
| TOTAL | | 402 | 1251 |

ALL DIMENSIONS ARE IN INCHES. ALSO REFER TO GENERAL NOTES APPLICABLE TO EQUIPMENT DRAWINGS.

STERIS Corporation
 ELEVATION AND PLAN OVERVIEWS
 A Series-Surgical Light(s), Accessory Arm(s)
 H-number: Item no. B1
 PRINTED DATE: 3/13/2024
 SHEET: 3 of 12

| MAIN SPINDLE - DROP TUBE ASSEMBLY | | AUXILIARY - DROP TUBE ASSEMBLY | |
|-----------------------------------|--------------------------|--------------------------------|--------------------------|
| DIM "A" | DESCRIPTION | DIM "B" | DESCRIPTION |
| 330MM [13.00"] | DROP TUBE 330MM ASSEMBLY | 1009267 | DROP TUBE 150MM ASSEMBLY |
| 505MM [19.88"] | DROP TUBE 505MM ASSEMBLY | 1009302 | DROP TUBE 330MM ASSEMBLY |
| 675MM [26.56"] | DROP TUBE 675MM ASSEMBLY | 1009340 | DROP TUBE 505MM ASSEMBLY |
| 845MM [33.27"] | DROP TUBE 845MM ASSEMBLY | 1009342 | DROP TUBE 675MM ASSEMBLY |

STERIS Corporation
 HarmonyAIR E SERIES, AUXILIARY ARM DETAIL
 SCALE: 0.125
 DRAWN BY: Tsenr, Michael
 DRAWING NUMBER: 11006103
 PART NUMBER: 11006103
 REVISION: B
 SHEET: 4 OF 12

CEILING OPENING
 585.6mm [23.06"] MAX. SQUARE CEILING OPENING
 50.8mm [2"] MIN. 203.2mm [8"] MAX. SEE "X" DIM IN TABLE MAX.
 25.4mm [1"] REF.
 58.7mm [2.31"] REF.

| VERTICAL TUBE LENGTH | "X" DIM MIN | "X" DIM RECOMMENDED | "X" DIM MAX |
|----------------------|--------------|---------------------|----------------|
| 150mm [5.91"] | 106mm [4.2"] | 203mm [8"] | 262mm [11.51"] |
| 330mm [13"] | 106mm [4.2"] | 203mm [8"] | 472mm [18.97"] |
| 505mm [19.91"] | 106mm [4.2"] | 203mm [8"] | 647mm [25.51"] |
| 675mm [26.6"] | 106mm [4.2"] | 203mm [8"] | 817mm [32.21"] |
| 845mm [33.31"] | 106mm [4.2"] | 203mm [8"] | 967mm [38.97"] |

STERIS Corporation
 HarmonyAIR A-SERIES, STANDARD MOUNT DETAIL
 SCALE: 1/16
 DRAWN BY: Paterbaugh, Nicholas
 DRAWING NUMBER: 11015051
 PART NUMBER: 11015051
 REVISION: B
 SHEET: 5 OF 12

STRUCTURAL FRAMEWORK & BRACING (PROVIDED BY OTHERS). THE CUSTOMER ASSUMES ALL RESPONSIBILITY FOR THE STRUCTURAL SUPPORT AND STRUCTURAL PLATE INSTALLATION. CONSULT WITH THE ENGINEER OF RECORD (EOR) TO ENSURE THAT THE STRUCTURAL PLATE OFFERED BY STERIS IS CORRECTLY INCORPORATED INTO THE BUILDING'S STRUCTURAL DESIGN & SUPPORT BRACING. STERIS ASSUMES NO RESPONSIBILITY FOR THE CUSTOMER'S STRUCTURAL DESIGN, SUPPORT BRACING AND STRUCTURAL SUPPORT INSTALLATION.

SEE STERIS DRAWING 11015055 FOR HARMONYAIR A-SERIES STRUCTURAL PLATE INSTALLATION INSTRUCTIONS TO DETERMINE LOCATION OF KICKERS.

STRUCTURAL MOUNTING PLATE (STERIS PN 10097270) MAY BE PROVIDED BY STERIS. QUOTED SEPARATELY. ADDITIONAL CHARGE APPLIES. IT IS THE EOR'S RESPONSIBILITY TO ENSURE THAT THE STRUCTURAL PLATE IS APPROPRIATELY INSTALLED AND MEETS ALL ABOVE CEILING SUPPORT REQUIREMENTS.

CLOCKING ORIENTATION TO MOUNT THE MAIN CEILING PLATE. THIS CONTROLS THE LOCATION OF THE AUXILIARY ARMS AND IS TYPICALLY LINED UP WITH THE CENTERLINES OF THE SURGICAL TABLE OR THE ROOM.

NOTES:
 1. THE CEILING STRUCTURE MUST BE LEVEL.
 2. WHEN THE LIGHTING SYSTEM IS INSTALLED, THE CEILING STRUCTURE MUST PREVENT THE STERIS CEILING PLATE FROM TIPPING MORE THAN 0.2".
 3. STERIS RECOMMENDS A CEILING STRUCTURE THAT CAN ACCOMMODATE THE MAXIMUM LOAD CONFIGURATION TO ALLOW THE GREATEST FLEXIBILITY FOR INITIAL INSTALLATION AS WELL AS THE ADDITION OF COMPONENTS IN THE FUTURE FOR THE MAXIMUM LOAD CONFIGURATION. SEE STERIS DRAWING 11015067, HARMONYAIR A-SERIES, SYSTEM MOST LOADED, LOADS AND MOMENTS DETAIL.

STERIS Corporation
 HarmonyAIR A-SERIES, SUPPORT STRUCTURE DETAIL
 SCALE: 0.063
 DRAWN BY: Moss, Bernie
 DRAWING NUMBER: 11015052
 PART NUMBER: 11015052
 REVISION: A
 SHEET: 6 OF 12

914mm [36"] MIN.
610mm [24.0"] REF.
304.8mm [12"] MIN.
610mm [24.0"] REF.
STERIS CEILING PLATE (REF)
Ø508mm [20"] MIN. ROUND CEILING OPENING
585.6mm [23.06"] MAX. SQUARE CEILING OPENING

NOTES:
 1. (X) RECOMMENDED HINGE LOCATIONS.
 2. A SQUARE 610mm (24") CEILING MOUNTED HINGED SERVICE ACCESS PANEL WITHIN 914mm (36") MIN. OF THE SPINDLE CENTER IS REQUIRED FOR ALL SYSTEM INSTALLATIONS FOR WIRING AND SERVICE ACCESSIBILITY. ACCESS PANEL EDGE MUST BE NO LESS THAN 355mm (12") FROM SPINDLE CENTERLINE FOR ACCOMMODATION OF THE CEILING TRIM PLATE.

STERIS Corporation
 HarmonyAIR A-SERIES, CEILING ACCESS DETAIL
 SCALE: 1/8
 DRAWN BY: Moss, Bernie
 DRAWING NUMBER: 11015053
 PART NUMBER: 11015053
 REVISION: A
 SHEET: 7 OF 12

186.2mm DIA. [7.33"] MAX. 182.2mm DIA. [7.17"] MIN. RECOMMENDED IN STRUCTURAL FRAMEWORK MOUNTING PLATE. IF THIS IS NOT PRACTICAL, STERIS RECOMMENDS A 2.00" DIA. HOLE TO FACILITATE CABLE ROUTING.

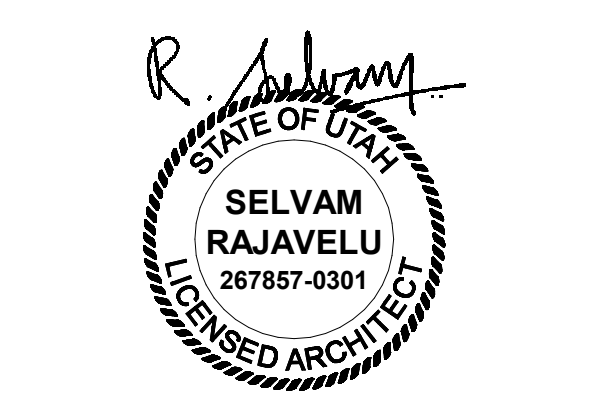
12 HOLES 18.3mm [0.719"] DIAMETER EQUALLY SPACED 388mm [15.27"] DIAMETER BOLT CIRCLE

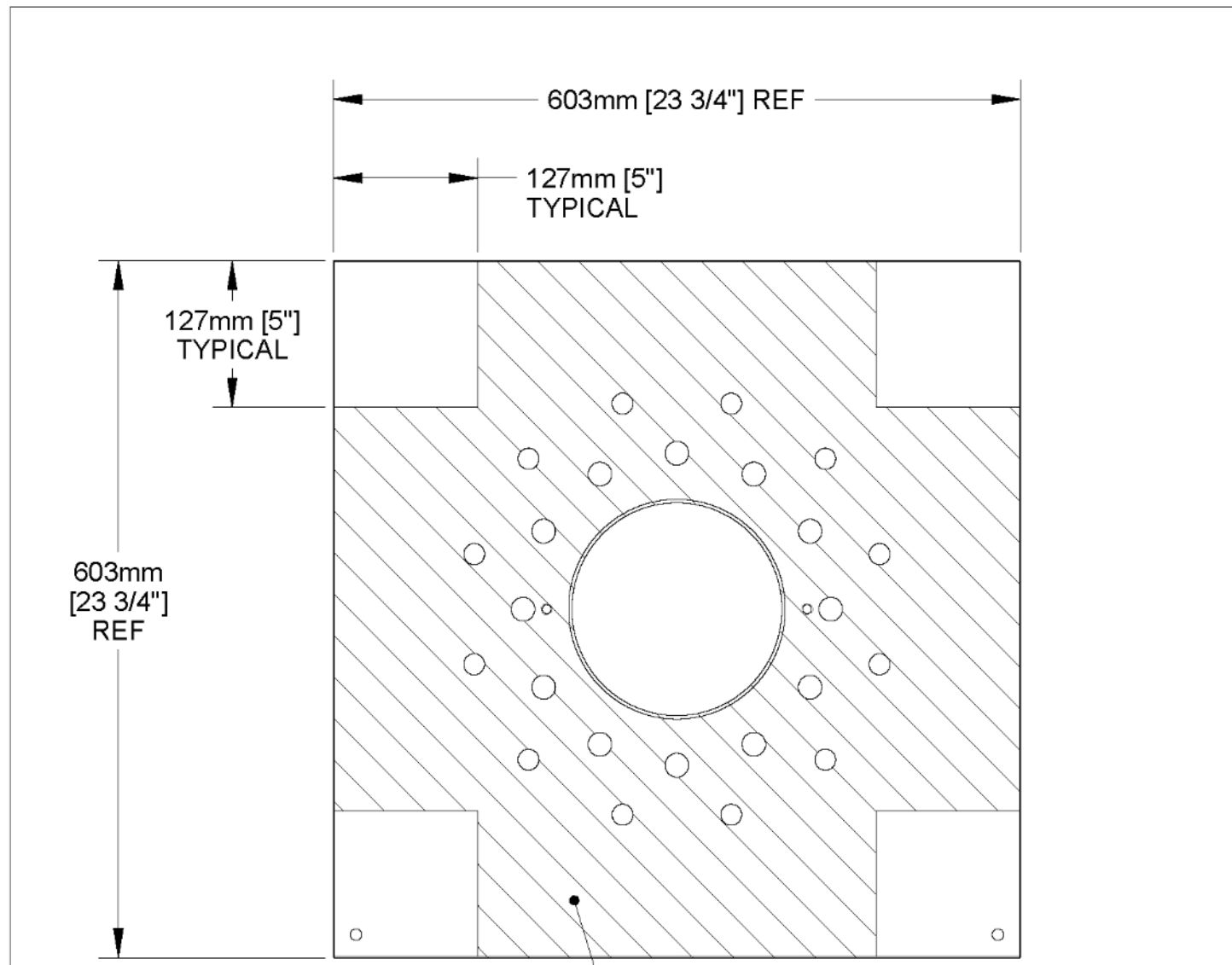
12 HOLES 20.7mm [0.813"] DIAMETER EQUALLY SPACED 270mm [10.629"] DIAMETER BOLT CIRCLE

| HOLE | BOLT DIA. | QTY. | BOLT CIRCLE DIA. | HOLE TO HOLE |
|------|-------------|------|------------------|------------------|
| A | 16mm [5/8"] | 4 | 388mm [15.27"] | 260.2mm [10.25"] |
| B | 16mm [5/8"] | 6 | 270mm [10.63"] | 135mm [5.31"] |

WHEN MOUNTING TO EXISTING STRUCTURES, THE FOLLOWING BOLT PATTERNS CAN BE USED

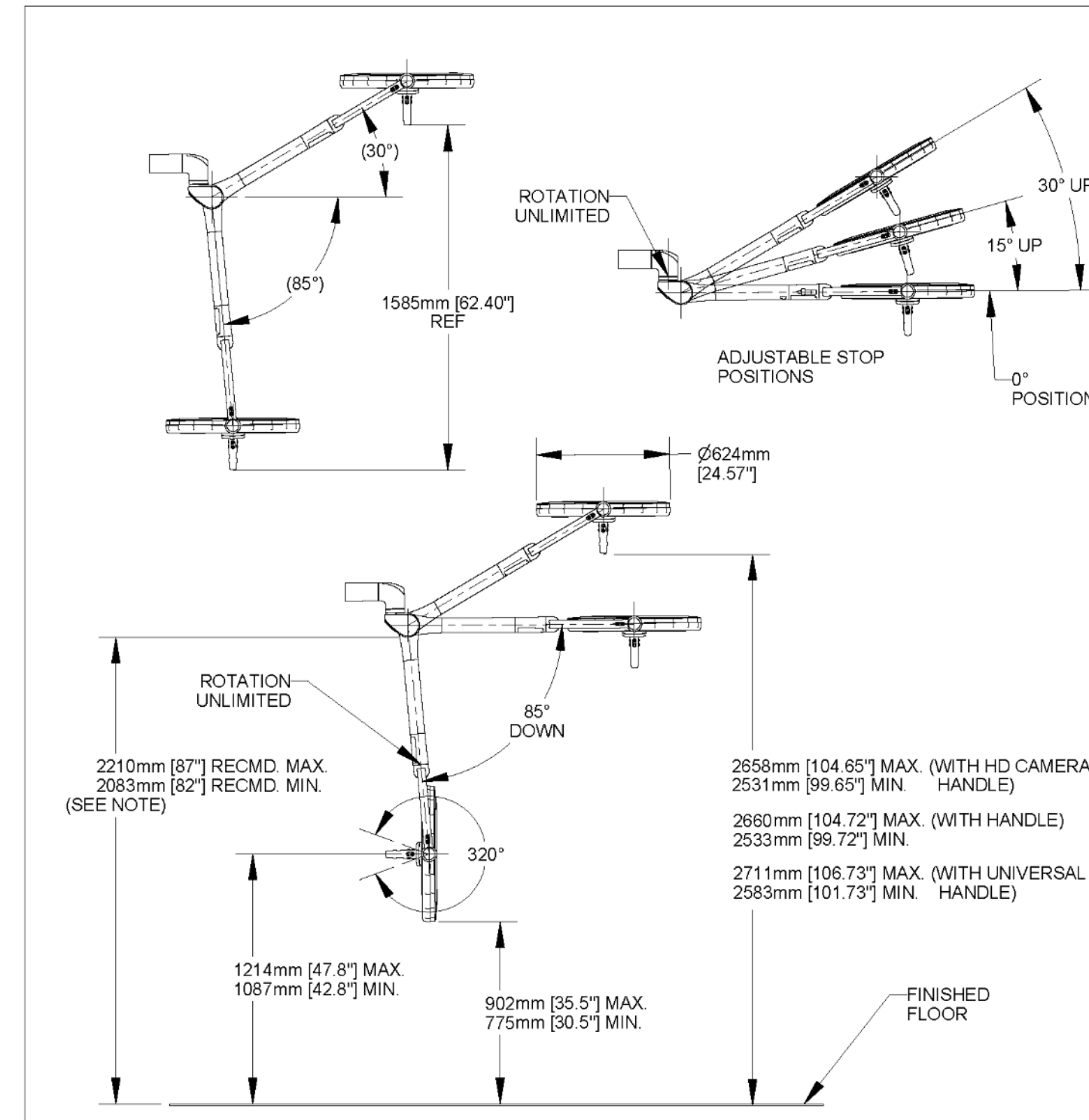
STERIS Corporation
 HarmonyAIR A-SERIES, STRUCTURAL AND CEILING PLATE BOLT HOLE PATTERNS
 SCALE: 0.063
 DRAWN BY: Moss, Bernie
 DRAWING NUMBER: 11015054
 PART NUMBER: 11015054
 REVISION: A
 SHEET: 8 OF 12





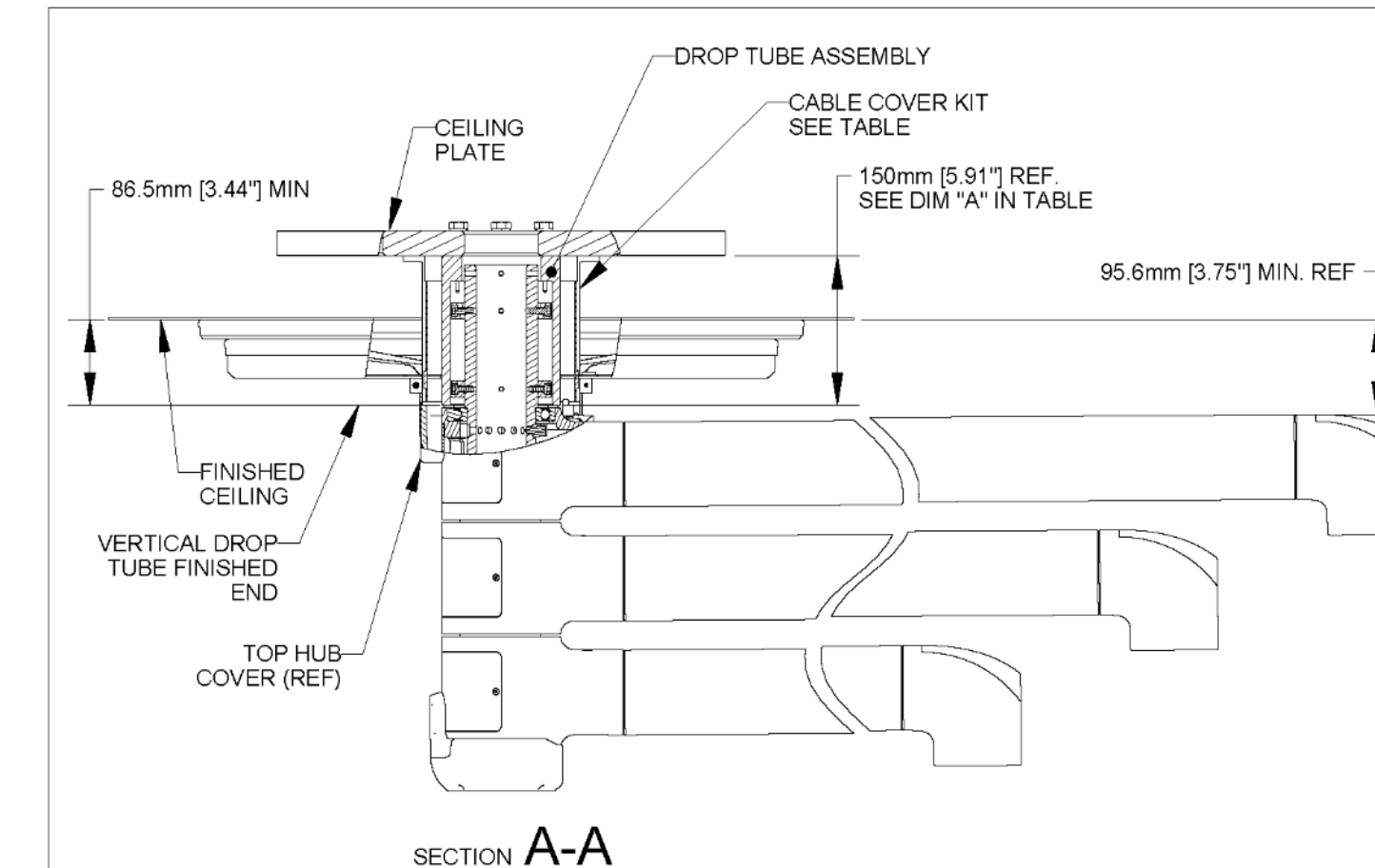
- NOTES:
1. ALL WELDS AND KICKERS MUST BE CONTAINED WITHIN THE 127mm [5"] X 127mm [5"] AREAS LOCATED AT EACH CORNER OF THE PLATE.
 2. STRUCTURAL PLATE (STERIS P/N 10097270) MATERIAL: 25.4mm [1"] A36 STEEL (PROVIDED BY STERIS). PLATE WEIGHS APPROXIMATELY 65.5 Kg [145 LBS].

STERIS Corporation
 TITLE: HarmonyAIR A-SERIES, STRUCTURAL PLATE INSTRUCTIONS
 SIZE: A, SCALE: 3/16, DRAWN BY: Moss, Bernie, DRAWING NUMBER: 11015055, PART NUMBER: 11015055, REVISION: A, SHEET: 9 OF 12



NOTE:
 IF CEILING SUSPENSION IS INSTALLED AT A HEIGHT OTHER THAN THE RECOMMENDED 2083mm [82"] TO 2210mm [87"] CLEARANCE, THE REMAINING DIMENSIONS TO THE FLOOR WILL CHANGE ACCORDINGLY.

STERIS Corporation
 TITLE: HarmonyAIR A-SERIES, SPRING ARM AND LIGHTHEAD
 SIZE: A, SCALE: 0.040, DRAWN BY: Puterbaugh, Nicholas, DRAWING NUMBER: 11015056, PART NUMBER: 11015056, REVISION: B, SHEET: 10 OF 12

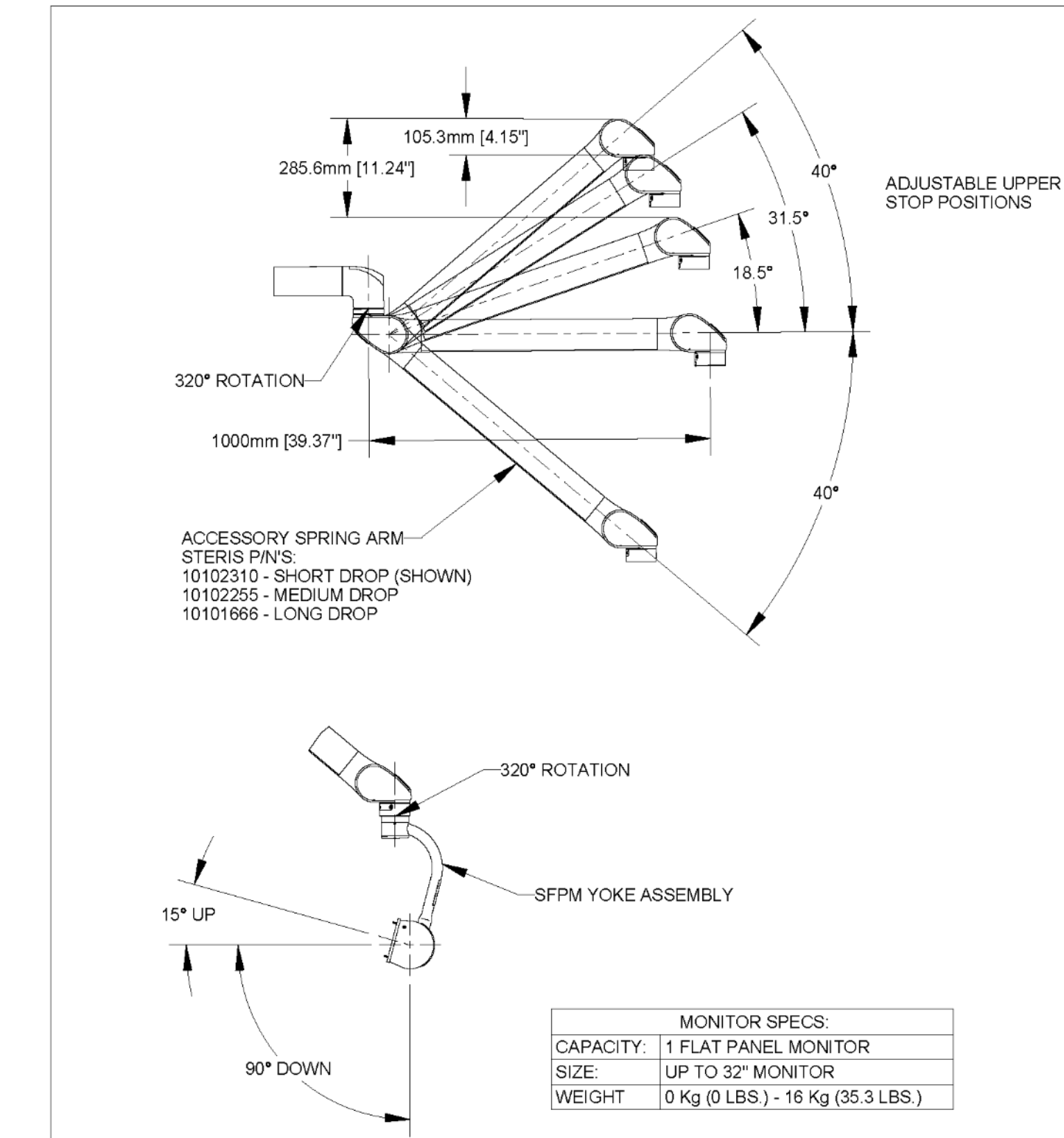


SECTION A-A

| DROPTUBE ASSEMBLY | | CABLE COVER KIT | |
|-------------------|--------------------------|-----------------|----------------------------------|
| DIM "A" | DESCRIPTION | STERIS PART NO. | DESCRIPTION |
| 150MM [5.91"] | DROP TUBE 150MM ASSEMBLY | 10098957 | CABLE COVER KIT, 150MM DROP TUBE |
| 330MM [13.00"] | DROP TUBE 330MM ASSEMBLY | 10096267 | CABLE COVER KIT, 330MM DROP TUBE |
| 505MM [19.88"] | DROP TUBE 505MM ASSEMBLY | 10096502 | CABLE COVER KIT, 505MM DROP TUBE |
| 675MM [26.58"] | DROP TUBE 675MM ASSEMBLY | 10099340 | CABLE COVER KIT, 675MM DROP TUBE |
| 845MM [33.27"] | DROP TUBE 845MM ASSEMBLY | 10099342 | CABLE COVER KIT, 845MM DROP TUBE |

NOTE:
 CABLE COVER KITS ARE REQUIRED FOR ALL MULTI-HUB CENTRAL AXIS SPINDLE ASSEMBLIES WITH POWERED ACCESSORIES ON THE TOP EXTENSION ARM.

STERIS Corporation
 TITLE: HarmonyAIR A-SERIES, POWERED ACCESSORY BASED SPINDLE DETAIL
 SIZE: A, SCALE: 0.145, DRAWN BY: Moss, Bernie, DRAWING NUMBER: 11015063, PART NUMBER: 11015063, REVISION: A, SHEET: 11 OF 12



MONITOR SPECS:
 CAPACITY: 1 FLAT PANEL MONITOR
 SIZE: UP TO 32" MONITOR
 WEIGHT: 0 Kg (0 LBS.) - 16 Kg (35.3 LBS.)

STERIS Corporation
 TITLE: HarmonyAIR A-SERIES, SFPM, SPRING ARM AND YOKE DETAIL
 SIZE: A, SCALE: 0.065, DRAWN BY: Moss, Bernie, DRAWING NUMBER: 11015057, PART NUMBER: 11015057, REVISION: A, SHEET: 12 OF 12

