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 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 structural engineer of record must ensure that the floor and ceiling is designed in such a way that the loads of the installed system can be securely borne and transferred. The layout of additional structural elements, dimensioning and the selection of appropriate installation methods are the sole responsibility of the structural engineer. Execution of load-bearing structures supporting equipment on the ceiling, floor or walls are the customer's responsibility.

RADIO-PROTECTION

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

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

<table>
<thead>
<tr>
<th>DATE</th>
<th>NAME</th>
<th>SIGNATURE</th>
</tr>
</thead>
</table>

DISCLAIMER

It is the responsibility of the customer to provide 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.
**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.

**ENVIRONMENTAL SPECIFICATIONS**

**MAGNETIC INTERFERENCE**

To guarantee specified imaging performance:

X-ray tubes and control console equipment must be located in ambient static field of less than 10 gauss.

**LIGHT REQUIREMENTS**

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

**ACOUSTIC OUTPUT**

Measured 1 m from any point in system.

- In-use: less than 55 dBA
- Stand-by: less than 55 dBA
The GE HPI Technical Support Group is an additional resource that can provide answers for general GE product siting questions and can be reached at (877)-305-9677 or mail to: HPITechCOE@ge.com

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

The chart shows the applications possible to perform with the present equipment positioning, however the sales contract may not include all of them.

The following shots are NOT available in this layout

Rear to front cross table shot

Exam room height

Finished floor to slab height

Recommended finished ceiling height

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For Accessory Sales: (866) 281-7545 Options 1, 2, 1, 2 or mail to: gefhcaccessorysales@ge.com
**EXAM ROOM CEILING HEIGHTS**

<table>
<thead>
<tr>
<th>CONFIGURATION</th>
<th>SPECIFICATION</th>
<th>CEILING HEIGHT [mm]</th>
<th>CEILING HEIGHT [in]</th>
</tr>
</thead>
<tbody>
<tr>
<td>2m, 3m or 4 meter Bridge</td>
<td>Recommended</td>
<td>2895.6 mm</td>
<td>114 in</td>
</tr>
<tr>
<td>2m, 3m Bridge with Advanced Applications</td>
<td>Minimum</td>
<td>2692.4 mm</td>
<td>106 in</td>
</tr>
<tr>
<td>2m, 3m Bridge without Advanced Applications</td>
<td>Minimum</td>
<td>2616.2 mm</td>
<td>103 in</td>
</tr>
<tr>
<td>4m Bridge with Advanced Applications</td>
<td>Minimum</td>
<td>2698.75 mm</td>
<td>106.25 in</td>
</tr>
<tr>
<td>4m Bridge without Advanced Applications</td>
<td>Minimum</td>
<td>2622.55 mm</td>
<td>103.25 in</td>
</tr>
<tr>
<td>3m Bridge with Wallstand at Front Position</td>
<td>Minimum</td>
<td>2870 mm</td>
<td>113 in</td>
</tr>
<tr>
<td>4m Bridge with Wallstand at Front Position</td>
<td>Minimum</td>
<td>2876.35 mm</td>
<td>113.25 in</td>
</tr>
</tbody>
</table>

Note: measured from the floor to the top of the longitudinal rails
EXAM ROOM CLEARANCE AREAS

TABLE WITH STANDARD WALLSTAND

Recommended required service access clearance is 915 mm [36 in]. Minimum required service access clearance is 610 mm [24 in].

SCALE 1:50

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.

<table>
<thead>
<tr>
<th>DIMENSIONS OF DELIVERY WITH DOLLY TRANSPORT EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQUIPMENT</td>
</tr>
<tr>
<td>STANDARD WALLSTAND</td>
</tr>
<tr>
<td>LENGTH</td>
</tr>
<tr>
<td>WIDTH</td>
</tr>
<tr>
<td>HEIGHT</td>
</tr>
<tr>
<td>WEIGHT</td>
</tr>
<tr>
<td>G1 TABLE</td>
</tr>
<tr>
<td>LENGTH</td>
</tr>
<tr>
<td>WIDTH</td>
</tr>
<tr>
<td>HEIGHT</td>
</tr>
<tr>
<td>WEIGHT</td>
</tr>
</tbody>
</table>

Pay attention to the lengths of the rails! They can be also 6 m [19.7 ft]!!

DONGLE POSITIONING

DONGLE DEFAULT LOCATION AND ADJUSTING RANGE:

- Dongle shall be positioned at the wall of detector insertion direction.
- B is the best position which is in the middle of the wall.
- The height requirement of dongle is 30cm lower than the ceiling.
- Position “A” to “C” (around ±1m) are acceptable locations for dongle.
- There shall be no obstructions in the path between dongle and detector applications.
**CEILING REQUIREMENTS**

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

It is recommended that sprinkler heads not be placed between the stationary rails. All sprinkler heads should be mounted so they do not extend downward more than 6.35 mm [0.25 in] from the ceiling while in the 'resting' position.

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

Stationary rails are designed for top (ceiling) mounting. Rails can be ordered and are supplied in 10.2 cm [4 in] increments between 3.4 m [11 ft] and 5.64 m [18.5 ft], plus a 5.79 m [19 ft] length totaling 24 different sizes. The choice of length depends on room size, configuration and the possible presence of obstructions.

---

**STRUCTURAL NOTES**

- Methods of support for the steelwork that will permit attachment to structural steel or through bolts in concrete construction should be favored. Do not use concrete or masonry anchors in direct tension.
- All units that are wall mounted or wall supported are to be provided with supports where necessary. Wall supports are to be supplied and installed by the customer or his contractors. See plan for suggested locations.
- Control walls shall be constructed to minimum 2130mm (7'-0") high.
- Dimensions are to finished surfaces of room.
- Customers contractor must provide all penetrations in post tension floors.
- Customers contractor must provide and install any non-standard anchoring. Documents for standard anchoring methods are included with GE equipment drawings for geographic areas that require such documentation.
- Customers contractor must provide and install hardware for "through the floor" anchoring and/or any bracing under access floors. This contractor must also provide floor drilling that cannot be completed because of an obstruction encountered while drilling by the GE installer such as rebar etc.
- It is the customer’s responsibility to perform any floor or wall penetrations that may be required. The customer is also responsible for ensuring that no subsurface utilities (e.g., electrical or any other form of wiring, conduits, piping, duct work or structural supports (i.e. post tension cables or rebar)) will interfere or come in contact with subsurface penetration operations (e.g. drilling and installation of anchors/scarfs) performed during the installation process. To ensure worker safety, GE installers will perform surface penetration operations only after the customer’s validation and completion of the "GE surface penetration permit".
- Different anchor types are used to install the components of the system. Refer to Structural Requirements Section(s) of the Pre-Installation Manual for each anchor requirement.
- Refer to the Structural Requirements Section for the required minimum embedment.
- The ground surface must be flat and leveled, maximum tolerance for leveling is ±1.5 mm per 1 m (0.2 in per 10 feet). A grout pad provided by the contractor is required to meet this specification. The maximum pad thickness is 6.3 mm (0.25 in).
<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Area occupied by GE supplied table baseplate</td>
</tr>
<tr>
<td>2</td>
<td>Area occupied by GE supplied wall stand baseplate</td>
</tr>
<tr>
<td>3</td>
<td>Support backing, locate as shown.</td>
</tr>
<tr>
<td>4</td>
<td>Structural support in ceiling for fastening ceiling supported equipment. Supports to run continuous with no fittings extending below face of channel, run wall to wall, be parallel, square, and in the same horizontal plane, flush with the finished ceiling. Rails are mounted to these supports every 2'-2&quot; and require 350 lbs. (597 lbs. In seismic regions) per bolt load. Methods of support that permit attachment to structural steel or through bolts in concrete should be favored. Do not use screw anchors in direct tension.</td>
</tr>
<tr>
<td>5</td>
<td>Structural support in ceiling for fastening cable drape rail. Supports to run continuous with no fittings extending below face of channel, run wall to wall, be parallel, square, and in the same horizontal plane, flush with the finished ceiling. Rails are mounted to these supports every 2'-2&quot; and require 50 lbs. Per bolt load. Methods of support that permit attachment to structural steel or through bolts in concrete should be favored. Do not use screw anchors in direct tension.</td>
</tr>
</tbody>
</table>
The floor bearing the system is recommended to be concrete and the thickness to be determined by a Structural Engineer to properly support the equipment loads. The supplied anchors require a minimum embedment of 90 mm [3.5 in] into the concrete. If the floor thickness is less than 95 mm [3.7 in], it is recommended that the unit be secured using a through-bolt method with a reinforcement plate on the back side.

**SCALE 1:20**

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### WALLSTAND ANCHORING

**WALLSTAND BASE**

Concrete area for wall stand installation should be 1 m² [39.37 in²].

**SCALE 1:10**

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### OTS SUSPENSION RAILS MOUNTING SPECIFICATIONS

**3 m BRIDGE**

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

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

- Diagonals must be equal within ±6.5 mm [±1/4 in]
- All mounting points must be parallel within ±3 mm [±1/8 in]
- All mounting points must be in the same horizontal plane within ±2.4 mm [±3/32 in]

**FOCAL SPOT TRAVEL**

**3 m BRIDGE**

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

**SCALE 1:50**
Contractor supplied and installed structural supports flush with finished ceiling

Contractor supplied and installed finished ceiling (ceiling & supports must not extend below face of structural supports)

GE supplied spring nuts with bolts

GE supplied cable drape support

GE supplied cable drape rail

Casting height as specified on installation drawings

Structural Support system is not supplied or installed by GE Healthcare

DETAIL 1

Contractor supplied and installed structural supports flush with finished ceiling

Contractor supplied and installed finished ceiling (ceiling & supports must not extend below face of structural supports)

GE supplied spring nuts with bolts

GE supplied longitudinal stationary rail

DETAIL 2

Contractor supplied and installed structural supports flush with finished ceiling

Contractor supplied and installed finished ceiling (ceiling & supports must not extend below face of structural supports)

GE supplied spring nuts with bolts

GE supplied cable drape support

GE supplied self-tapping screws

GE supplied cable drape rail
## TEMPERATURE AND HUMIDITY SPECIFICATIONS

### IN-USE CONDITIONS

<table>
<thead>
<tr>
<th>ROOM</th>
<th>DESCRIPTION</th>
<th>Temperature</th>
<th>Relative humidity</th>
<th>Humidity gradient</th>
<th>Heat Dissipation (kW)</th>
<th>Heat Dissipation (BTU/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam Room</td>
<td>Elevating Table G1</td>
<td>15 °C (59 °F)</td>
<td>30% to 80%</td>
<td>&lt; 30% /h</td>
<td>0.092</td>
<td>315</td>
</tr>
<tr>
<td></td>
<td>Table Detector power</td>
<td>15 °C (59 °F)</td>
<td></td>
<td></td>
<td>0.017</td>
<td>56</td>
</tr>
<tr>
<td></td>
<td>Wall Stand G1 (Standard/Extended)</td>
<td>15 °C (59 °F)</td>
<td></td>
<td></td>
<td>0.023</td>
<td>79</td>
</tr>
<tr>
<td></td>
<td>WS Detector power</td>
<td>15 °C (59 °F)</td>
<td></td>
<td></td>
<td>0.017</td>
<td>56</td>
</tr>
<tr>
<td></td>
<td>OTS &amp; Collimator</td>
<td>15 °C (59 °F)</td>
<td></td>
<td></td>
<td>0.147</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>Tube Rotor</td>
<td></td>
<td></td>
<td></td>
<td>0.016</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>TIB</td>
<td></td>
<td></td>
<td></td>
<td>0.002</td>
<td>6.75</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td>1.012</td>
<td>3449.8</td>
</tr>
<tr>
<td>Control Room</td>
<td>2420 PC and Monitor</td>
<td></td>
<td></td>
<td></td>
<td>0.176</td>
<td>601</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td>0.176</td>
<td>601.0</td>
</tr>
</tbody>
</table>

### STORAGE CONDITIONS

<table>
<thead>
<tr>
<th>ROOM</th>
<th>DESCRIPTION</th>
<th>Temperature</th>
<th>Relative humidity</th>
<th>Humidity gradient</th>
<th>Heat Dissipation (kW)</th>
<th>Heat Dissipation (BTU/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam Room</td>
<td>Elevating Table G1</td>
<td>5 °C (41 °F)</td>
<td>20% to 85%</td>
<td>&lt; 30% /h</td>
<td>0.092</td>
<td>315</td>
</tr>
<tr>
<td></td>
<td>Table Detector power</td>
<td>5 °C (41 °F)</td>
<td></td>
<td></td>
<td>0.017</td>
<td>56</td>
</tr>
<tr>
<td></td>
<td>Wall Stand G1 (Standard/Extended)</td>
<td>5 °C (41 °F)</td>
<td></td>
<td></td>
<td>0.023</td>
<td>79</td>
</tr>
<tr>
<td></td>
<td>WS Detector power</td>
<td>5 °C (41 °F)</td>
<td></td>
<td></td>
<td>0.017</td>
<td>56</td>
</tr>
<tr>
<td></td>
<td>OTS &amp; Collimator</td>
<td>5 °C (41 °F)</td>
<td></td>
<td></td>
<td>0.147</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>Tube Rotor</td>
<td></td>
<td></td>
<td></td>
<td>0.016</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>TIB</td>
<td></td>
<td></td>
<td></td>
<td>0.002</td>
<td>6.75</td>
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<td></td>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td>1.012</td>
<td>3449.8</td>
</tr>
</tbody>
</table>

### AIR RENEWAL

According to local standards.

**NOTE**

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

### HEAT DISSIPATION DETAILS

<table>
<thead>
<tr>
<th>ROOM</th>
<th>DESCRIPTION</th>
<th>Heat Dissipation (kW)</th>
<th>Heat Dissipation (BTU/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>STANDBY</td>
<td>IN-USE</td>
</tr>
<tr>
<td>Exam Room</td>
<td>Elevating Table G1</td>
<td>0.092</td>
<td>0.666</td>
</tr>
<tr>
<td></td>
<td>Table Detector power</td>
<td>0.017</td>
<td>0.017</td>
</tr>
<tr>
<td></td>
<td>Wall Stand G1 (Standard/Extended)</td>
<td>0.023</td>
<td>0.094</td>
</tr>
<tr>
<td></td>
<td>WS Detector power</td>
<td>0.017</td>
<td>0.017</td>
</tr>
<tr>
<td></td>
<td>OTS &amp; Collimator</td>
<td>0.714</td>
<td>1.427</td>
</tr>
<tr>
<td></td>
<td>System Cabinet</td>
<td>0.147</td>
<td>0.440</td>
</tr>
<tr>
<td></td>
<td>Tube Rotor</td>
<td>0</td>
<td>0.160</td>
</tr>
<tr>
<td></td>
<td>TIB</td>
<td>0.002</td>
<td>0.020</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td>1.012</td>
<td>2.841</td>
</tr>
<tr>
<td>Control Room</td>
<td>2420 PC and Monitor</td>
<td>0.176</td>
<td>0.253</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td>0.176</td>
<td>0.253</td>
</tr>
</tbody>
</table>
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 distribution unit and one on each wall of the procedure room. Use hospital approved outlet or equivalent.
   6. General room illumination is not illustrated. Caution should be taken to avoid excessive heat from overhead spotlights. Damage can occur to ceiling mounting components and wiring if high wattage bulbs are used. Recommend low wattage bulbs no higher than 75 watts and use dimmer controls (except mr). Do not mount lights directly above areas where ceiling mounted accessories will be parked.
   7. Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).
   8. Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local electrical codes.
   9. 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.

CONNECTIVITY REQUIREMENTS

Broadband Connections are necessary during the installation process and going forward to ensure full support from the Engineering Teams for the customers system. Maximum performance and availability for the customers system is maintained and closely monitored during the lifetime of the system. Proactive and reactive maintenance is available utilising the wide range of digital tools using the connectivity solutions listed below:
   - Site-to-Site VPN/GE Solution
   - Site-to-Site VPN/Customer Solution
   - Connection through Dedicated Service Network
   - Internet Access - connectivity for InSite 2.0

The requirements for these connectivity solutions are explained in the broadband solutions catalogue (separate document).
Typical E3 - Electrical Elevations

± 0'-0" +9'-6"

± 0'-0" +9'-6"

± 0'-0" +9'-6"

± 0'-0" +9'-6"

FIELD VERIFY WITH RAD TECH

DISCOVERY XR 656

EN-RAD-TYP-XR_656_(G1)-WEB.DWG

09/Nov/2018
**POWER REQUIREMENTS**

- Power supply should come into a main 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 permissible voltage drops.
- There must be discrimination between supply cable protective material at the beginning of the installation (main low-voltage transformer side) and the protective devices in the MDP.

**SPECIAL CHARACTERISTICS**

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

**GROUND SYSTEM**

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

**CABLES**

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

**CABLEWAYS**

The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to:
- Protecting cables against water (cableways should be waterproof)
- Protecting cables against abnormal temperatures (proximity to heating pipes or ducts)
- Protecting cables against temperature shocks
- Replacing cables (cableways should be large enough for cables to be replaced) metal cableways should be grounded.

---

**FEEDER TABLE**

<table>
<thead>
<tr>
<th>MIN. FEEDER WIRE SIZE, AWG OR MCM (sq. mm)/VAC</th>
<th>MINIMUM FEEDER LENGTH - ft (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 (15)</td>
<td>100 (30)</td>
</tr>
<tr>
<td>150 (46)</td>
<td>200 (61)</td>
</tr>
<tr>
<td>250 (76)</td>
<td>300 (91)</td>
</tr>
<tr>
<td>350 (107)</td>
<td>400 (122)</td>
</tr>
<tr>
<td>450 (137)</td>
<td></td>
</tr>
<tr>
<td>480 VAC</td>
<td>2 (34)</td>
</tr>
<tr>
<td>2 (34)</td>
<td>3 (45)</td>
</tr>
<tr>
<td>2 (34)</td>
<td>4 (54)</td>
</tr>
<tr>
<td>2 (34)</td>
<td>5 (68)</td>
</tr>
<tr>
<td>1 (34)</td>
<td>6 (83)</td>
</tr>
<tr>
<td>2 (34)</td>
<td>7 (85)</td>
</tr>
<tr>
<td>2 (34)</td>
<td>8 (107)</td>
</tr>
</tbody>
</table>

**GENERAL NOTES**

- In all cases qualified personnel must verify that the feeder (at the point of take-off) and the run to the GE system meet all the requirements stated in the PIM.
- For a single unit installation, the minimum transformer size is 150 kVA, Synthesized power feed is not acceptable.
- Grounding conductor will be of the same size as the feeder. This ground will run from the equipment back to the power source/main grounding point and always travel in the same conduit with the feeders.

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**POWER DISTRIBUTION**

- **Main 380-480 V**
- **Three Phase Supply**
- **Ground cable (PE)**

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**Cable SUPPLIED BY GE**

**Cable SUPPLIED BY CUSTOMER**

**Equipment SUPPLIED BY GE**

**Equipment SUPPLIED BY CUSTOMER**

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**DISCOVERY XR 656**

**EN-RAD-TYP-XR_656_(G1)-WEB.DWG**

**Rev A Date 09/Nov/2018**

**ES - Power Requirements**

16/16