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REVDATEMODIFICATIONS01 - C1 - Cover Sheet10 - S4 - Structural Details (2)02 - C2 - Disclaimer - Site Readiness11 - M1 - HVAC03 - A1 - General Notes12 - E1 - Electrical Notes04 - A2 - Equipment Layout13 - E2 - Electrical Layout05 - A3 - Section Views14 - E3 - Electrical Elevations	GI	E Healthcare			
06 - A4 - Equipment Details & Delivery14 - E3 - Electrical Elevations07 - S1 - Structural Notes15 - E4 - Details-Interconnections08 - S2 - Structural Layout16 - E5 - Power Requirements09 - S3 - Structural Details (1)14 - E3 - Electrical Elevations		DISCOVERY XR FINAL S		(G2)	
A mandatory component of this drawing set is the GE Healthcare Pre Installation manual. Failure to reference the Pre Installation manual will result in	Drawn by	Verified by Concession	S.O. (GON)	PIM Manual	Rev
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	PMM	RET -	-	5643834-1EN	7
GE does not take responsibility for any damages resulting from changes on drawings made by others. Errors may occur by not referring to the complete set of final issue drawing. GE cannot accept responsibility for any damage due to the partial use of GE final issue drawings, however caused. All	Format Scale	File Name		Date	Sheet
dimensions are in millimeters unless otherwise specified. Do not scale from printed pdf files. GE accepts no responsibility or liability for defective work due to scaling from these drawings.	A3 1/4"=1'-0"	EN-RAD-TYP-XR_656_PLUS_(26/Feb/2025	



DISCLAIMER

CUSTOMER SITE READINESS REQUIREMENTS

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

RADIO-PROTECTION

Suitable radiological protection must be determined by a qualified radiological physicist in conformation with local regulations. 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.		
DATE	NAME	SIGNATURE

REQUIRED MANUALS FOR SYSTEM PRE-INSTALLATION

Description

roduct specific Pre-installation Manual	-installation Manual

*documents can be accessed in multiple languages at https://www.gehealthcare.com/support/manuals

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

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

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

Typical

Document Number*

Refer to cover page

ENVIRONMENTAL SPECIFICATIONS

MAGNETIC INTERFERENCE

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

LIGHT REQUIREMENTS

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

ACOUSTIC OUTPUT

Measured 1 m [3.28 ft] from any point in system.In-use:less than 55 dBAStand-by:less than 55 dBA

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LEGEND					
	D	AVA	ILABLE FROM	1 GE	
FOR INSTALLED	Е	EQU	IPMENT EXIS	TING IN ROC	M
OR SUPPLIED AND	*		1 TO BE REIN THER SITE	STALLED FRO	M
CRIPTION	MA HEA OUT (BTL	AT PUT	WEIGHT (lbs)	MAX HEAT OUTPUT (W)	WEIGHT (kg)
E G2	233	30	970	683	440
	4869		706	1427	320
STAND G2	379		595	111	270
CE BOX (TIB)	232		15	68	7
LY	-		2	-	0.8
	-		30	-	13.8
OLE	863		79	253	36
ANCHOR RAILS	-		-	-	-
IL	-		-	-	-
TATIONARY RAILS	-		-	-	-
RIDGE	2047		1147	600	520
CT PANEL	-		-	-	-
	-		26	-	12
	-		11	-	5

COUNTER TOP FOR EQUIPMENT- PROVIDE GROMMETED OPENINGS AS REQUIRED TO

CONTROL WALL, 7 FT. HIGH WITH LEAD GLASS VIEWING WINDOW

MINIMUM OPENING FOR EQUIPMENT DELIVERY IS 950 mm x 1900 mm [37.5 in x 75 in], CONTINGENT ON A 2500 mm [96 in] CORRIDOR WIDTH (NOTE: IMAGE PASTE OPTION REQUIRES AN 1100 mm x 2100 mm [44 in x 82 in] OPENING)

*REFER TO HEAT DISSIPATION DETAIL ON PAGE M1 FOR SYSTEM HEAT LOAD INFORMATION

APPLICATIONS

The chart shows the applications possible to perform with the present equipment positioning,

nd	YES
	YES
Arm Wall stand	NO
	YES
nd	YES
	YES

THE FOLLOWING SHOTS ARE NOT AVAILABLE IN THIS LAYOUT

REAR TO FRONT CROSS TABLE SHOT

EXAM ROOM HEIGHT	
HT	TBD
	rec. 9'-6"

EXAM ROOM CEILING HEIGHTS

RECOMMENDED AND MINIMUM ROOM HEIGHTS				
CONFIGURATION	SPECIFICATION	CEILING HEIGHT [mm]	CEILING HEIGHT [in]	
2m, 3m or 4-meter Bridge	Recommended	2895.6 mm	114 in	
2m, 3m Bridge with Advanced Applications	Minimum	2692.4 mm	106 in	
2m, 3m Bridge without Advanced Applications	Minimum	2616.2 mm	103 in	
4m Bridge with Advanced Applications	Minimum	2698.75 mm	106.25 in	
4m Bridge without Advanced Applications	Minimum	2622.55 mm	103.25 in	
3m Bridge with Wallstand at Front Position	Minimum	2870 mm	113 in	
4m Bridge with Wallstand at Front Position	Minimum	2876.35 mm	113.25 in	

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

SIDE VIEW A-A'



FRONT VIEW B-B'



CLEARANCE AREAS

G2 TABLE WITH STANDARD WALLSTAND



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



THE CUSTOMER/CONTRACTOR SHOULD:

- Provide an area adjacent to the installation site for delivery and unloading of the GE equipment. ٠
- 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 ٠ belonging to the customer have been made.

EQUIPMENT	DIMENSIONS LxWxH mm (in)	WEIGHT kg (lb)
STANDARD WALLSTAND	2111x911x1860 (83.1x35.9x73.2)	284 kg (626 lbs) + dolly
EXTENDED WALLSTAND	2340x911x1860 (92.1x35.9x73.2)	292 kg (644 lbs) + dolly
GLOBAL G2 TABLE	2400x940x800 (95x37x31.5)	440 kg (970 lbs) + dolly
STATIONARY RAILS (5.79 m (19 ft)) (set of 2 rails)	5920x62.5x84.3 (233.1x2.5x3.3)	63 kg (138 lbs)
OTS	1440x1130x980 (56.7x44.5x38.6)	332 kg (732 lbs)
2M or 3M BRIDGE	3254x794x500 (128.1x31x19.7)	172 kg (380 lbs)
4M BRIDGE	4554x794x500 (4547x31x19.7)	246 kg (542 lbs)

SCALE 1:50

DONGLE POSITIONING

DONGLE DEFAULT LOCATION AND ADJUSTING RANGE:

- Dongle shall be positioned at the wall of detector insertion direction. ٠
- B is the best position which is in the middle of the wall. •
- The height requirement of dongle is 30cm lower than the ceiling. ٠
- Position "A" to "C" (around ±1m) are acceptable locations for dongle.
- There shall be no obstructions in the path between dongle and detector applications. •



DISCOVERY XR 656 PLUS (G2)

GRID HOLDER



Grid Holder should be installed 10cm to 20cm [4in to 8in] height from the Grid Holder bottom to the floor.

SCALE 1:20

EN-RAD-TYP-XR 656 PLUS (G2)-NF.DWG

Typical



Ensure that the dimensions of all doors, corridors, ceiling heights are sufficient to accommodate the

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STRUCTURAL NOTES

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

CEILING REQUIREMENTS

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

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

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

Stationary rails are designed for top (ceiling) mounting. Rails can be ordered and are supplied in the following sizes: - 5334 mm [17 ft 6 in]

- 4115 mm [13 ft 6 in]
- 4420 mm [14 ft 6 in]
- 5640 mm [18 ft 6 in]
- 5791 mm [19 ft]
- 5030 mm [16 ft 6 in]

- 4724 mm [15 ft 6 in]

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

	ITEM
	(GE
	1 Area occupied by GE supp
	2 Area occupied by GE supp
	(C
	3 Support backing, locate as
	4 Support backing for Grid H
	5 Structural support in ceilin continuous with no fittings square, and in the same he these supports every 2'-2" Methods of support that p should be favored. Do not
9'-0"	6 Structural support in ceilin fittings extending below fa horizontal plane, flush with 2'-2" and require 50 lbs. Pe structural steel or through direct tension.
4 CONTROL ROOM	
EXAM ROOM	
<u>1'-10"</u> 5'-2"	
13'-8"	
Typical DISCOVERY XR 656 PLUS (G2) EN-RAD-TYP-XR 656 PLUS (G2)-NF.DWG 1/4"=1'-0" R	 ev B Date 26/Feb/2025

DESCRIPTION

GE SUPPLIED / CONTRACTOR INSTALLED)

pplied table baseplate

pplied wall stand baseplate

(CONTRACTOR SUPPLIED & INSTALLED)

as shown.

Holder, locate as shown. Refer to Equipment Detail page.

iling for fastening ceiling supported equipment. Supports to run ngs extending below face of channel, run wall to wall, be parallel, horizontal plane, flush with the finished ceiling. Rails are mounted to -2" and require 350 lbs. (597 lbs. In seismic regions) per bolt load. t permit attachment to structural steel or through bolts in concrete ot use screw anchors in direct tension.

iling for fastening cable drape rail. Supports to run continuous with no r face of channel, run wall to wall, be parallel, square, and in the same with the finished ceiling. Rails are mounted to these supports every . Per bolt load. Methods of support that permit attachment to gh bolts in concrete should be favored. Do not use screw anchors in

TABLE ANCHORING

TABLE STAND



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 [3.54 in] into the concrete. If the floor thickness is less than 95 mm [3.74 in], it is recommended that the unit be secured using a through-bolt method with a reinforcement plate on the back side.

SCALE 1:20



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]

660.4 ±1.5 mm [26 ±1/16 in]

Cable takeup support rail mounting points

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

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)

FOCAL SPOT TRAVEL WITH 3M BRIDGE



SCALE 1:50

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

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



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XT RADIOGRAPHIC SUSPENSION, INBOARD MOUNTING



Typical

TEMPERATURE AND HUMIDITY SPECIFICATIONS

IN-USE CONDITIONS

	EXAM ROOM		CONTROL ROOM	
Temperature	Min	Max	Min	Max
	15°C [59°F]	35°C [95°F]	15°C [59°F]	35°C [95°F]
Temperature gradient	< 10°C/h [< 50°F/h]		< 10°C/h	[< 50°F/h]
Relative humidity (1)	30% to 60%		30% t	o 60%
Humidity gradient	< 30%/h		< 30	%/h

STORAGE CONDITIONS

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

Storage longer than 90 days is not recommended.

(1) Non-condensing

AIR RENEWAL

According to local standards.

NOTE

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

HEAT DISSIPATION DETAILS

ROOM	DESCRIPTION		SIPATION W)	HEAT DISSIPATION (BTU/hr)		
		STANDBY	IN-USE	STANDBY	IN-USE	
	Table	0.092	0.666	315	2272	
Exam Room	Table Detector power	0.017	0.017	56	56	
	Wall Stand (Standard/Extended)	0.023	0.094	79	321	
	WS Detector power	0.017	0.017	56	56	
	System Cabinet	0.714	1.427	2437	4869	
	OTS & Collimator	0.147	0.440	500	1500	
	Tube Rotor	0	0.160	0	544	
	ТІВ	0.002	0.020	6.75	68	
	TOTAL	1.012	2.841	3449.8	9686 .0	
	PC and Monitor	0.176	0.253	601	863	
Control Room	UPS	0.009	0.013	31.61	45.45	
	TOTAL	0.185	0.266	632.6	908.5	

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CONNECTIVITY REQUIREMENTS

ELECTRICAL NOTES

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

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

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

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

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

- 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.
- It is recommended that all wires be color coded, as required in accordance with national and local electrical codes. 3.
- Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or national 4. 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.
- General room illumination is not illustrated. Caution should be taken to avoid excessive heat from overhead spotlights. 6. 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.
- Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than 7. standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).
- Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local electrical 8 codes
- 9 In some cases GEHC will specify ground wires to be sized larger than code. In these situations, the GEHC specification must be followed.
- 10. A special grounding system is required in all procedure rooms by some national and local codes. It is recommended in areas where patients might be examined or treated under present, future, or emergency conditions. Consult the governing electrical code and confer with appropriate customer administrative personnel to determine the areas requiring this type of grounding system.
- 11. The maximum point to point distances illustrated on this drawing must not be exceeded.
- 12. Physical connection of primary power to GEHC equipment is to be made by customers electrical contractor with the supervision of a GEHC representative. The GEHC representative would be required to identify the physical connection location, and insure proper handling of GEHC equipment.
- 13. GEHC conducts power audits to verify quality of power being delivered to the system. The customer's electrical contractor is required to be available to support this activity.
- 14. Every installation is unique. The electrical contractor will be required to support the installation of the GEHC equipment by providing knockouts, grommeted openings, bushings, etc. as required. All power connections to be performed by the electrician.

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

E1 - Electrical Notes

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Contractor Supplied and Installed) 02.Ju From (Bubble # / Item) To (Bubble # / Item) Qty Size	Item		Electrical Layout Item List					
3 Flush J-box for Chest Unit - size per local code 4 Flush J-box for Dongle - size per local code 5 Flush J-box for Generator - size per local code 6 Flush J-box for Generator - size per local code 7 18" x3 1/2" (450mm x 100mm) Flush vertical wall duct with minimum 2 dividers 8 Box above ceiling size per local code 9 Box below floor size per local code 10 One 1 1/2" cnd 11 One 2 1/2" cnd 12 One 2 1/2" cnd 13 One 2 1/2" cnd 14 Main Disconnect Panel (MDP) 15 Grommeted opening (OTS) Electrical Outlet Legend Customer/contractor suppled and installed item sules otherwise specified. 11 Main Disconnect Panel (MDP) IS 12 System emergency off (SEO), (recommended height 1.2m [48"] above floor) X:Ray room warring light control panel 12 X-Ray room warring light control panel X:Ray room warring light control panel X:Ray room warring light control panel 13 Network outlet Incluster det and installed) Duplex hospital grade, dedicated wall outlet 120-v, single phase power Duplex hospital grade, dedicated wall outlet 120	1	Suitable bushings & locknuts						
4 Flush J-box for Dongle - size per local code 5 Flush J-box for Generator - size per local code 6 Flush J-box for Generator - size per local code 3 18" x 3 1/2" (450mm x 100mm) Flush vertical wall duct with minimum 2 dividers 8 Box above celling size per local code 3 0 ne 1" cnd 3 10 One 1" cnd 3 10" c1/2" cnd 3 12 One 2 1/2" cnd 3 3 10" c1/2" cnd 3 13 One 2 1/2" cnd 3 3 10" catomet opening (OTS) 3	2	Flush 12"x6"x4" box for Con	trol					
5 Flush J-box for TIB - size per local code	3	Flush J-box for Chest Unit - s	size per local code					
6 Flush J-box for Generator - size per local code Image: size per local code 7 18" x 3 1/2" [450mm x 100mm] Flush vertical wall duct with minimum 2 dividers 8 Box above ceiling size per local code Image: size per local code 9 Box below floor size per local code Image: size per local code 10 One 1 1/2" cnd Image: size per local code 11 One 2 " cnd Image: size per local code 12 One 2 " cnd Image: size per local code 13 One 2 1/2" cnd Image: size per local code 14 Main Disconnect Panel (MDP) Image: size per local code unless otherwise specified. 15 Grommeted opening (OTS) Image: size per local code unless otherwise specified. 16 Yeth above floor determined by local code unless otherwise specified. Image: size per local code unless otherwise specified. 16 X-Ray room warning light control panel Xethy room warning light control panel Xethy room warning light control panel 17 Network suitch (needed only if required by state/local codes) Image: size per local codes 18 Duplex hospital grade, dedicated wall outlet 120-v, single phase power Image: size per local code	4	Flush J-box for Dongle - size	per local code					
7 18" x 3 1/2" [450mm x 100mm] Flush vertical wall duct with minimum 2 dividers 8 Box above ceiling size per local code 9 Box below floor size per local code 10 One 1" cnd 11 One 1 1/2" cnd 12 One 2" cnd 13 One 2 1/2" cnd 14 Main Disconnect Panel (MDP) 15 Grommeted opening (OTS) Electrical Outlet Legend Customer/contractor supplied and installed items unless otherwise specified. Height above floor determined by local codes unless otherwise specified. Height above floor determined by local codes unless otherwise specified. 12 System emergency off (SED), (recommended height 1.2m [48"] above floor) 14 Kany room warning light control panel 15 K-Ray ON lamp (L1) - 24V 16 Door interlock switch (needed only if required by state/local codes) 17 Dedicated telephone line(s) 18 Network outlet	5	Flush J-box for TIB - size per local code						
8 Box above ceiling size per local code 9 Box below floor size per local code 10 One 1" cnd 11 One 1 1/2" cnd 12 One 2 1/2" cnd 13 One 2 1/2" cnd 14 Main Disconnect Panel (MDP) 15 Grommeted opening (OTS) Electrical Outlet Legend Customer/contractor supplied and installed tems unless otherwise specified. Height above floor determined by local codes unless otherwise specified. 11 System emergency off (SED), (recommended height 1.2m [48"] above floor) X-Ray room warning light control panel 12 System (L1) - 24V Oor interlock switch (needed only if required by state/local codes) Duplex hospital grade, dedicated wall outlet 120-v, single phase power 14 Dedicated telephone line(s) Interlock switch (needed only if required by state/local codes) Pedicated telephone line(s) 15 Network outlet Interlock switch (needed only if required by state/local codes) Interlock switch (needed only if required by state/local codes) 16 Dedicated telephone line(s) Interlock switch (needed only if required by state/local codes) Interlock switch (needed only if required by state/local codes) 17 Dedicated telephone line(s) Interlock	6	Flush J-box for Generator - size per local code						
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		From (Bubble # / Item)	To (Bubble # / Item)		In.	ze mm		
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8 Systems Cabinet

Warning Light 1 Phase Power

2 Operators Console

Additional Conduit Runs (Contractor Supplied and Installed)						
	То			Size		
		(Bubble # / Item)	Qty	In.	mm	
	14	Main Disconnect	1	As req'd	As req'd	
		Emergency Off	1	1/2	13	
	8	Systems Cabinet	1	As req'd	As req'd	
			1	1/2	13	
		Warning Light Control	1	As req'd	As req'd	
			1	1/2	13	
		Door Switch	1	1/2	16	
	5	TIB	1	2	53	
	4	Dongle	1	1	27	
	5	TIB	1	1	27	
	4	Dongle	1	2	53	
		E2 - Electrical Layou	ut	-	13/16	





| 15/16

POWER REQUIREMENTS

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

- 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.

SUPPLY CHARACTERISTICS

- Power input must be separated from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers...)
- All equipment (lighting, power outlets, etc...) installed with 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) ٠
- Protecting cables against temperature shocks •

Typical

Replacing cables (cableways should be large enough for cables to be replaced) metal cableways should be . grounded.

MIN. FEEDER WIRE SIZE, AWG OR MCM	MINIMUM FEEDER WIRE LENGTH - ft (m)								
(sq. mm)/VAC	50 (15)	100 (30)	150 (46)	200 (61)	250 (76)	300 (91)	350 (107)	400 (122)	450 (137
480 VAC	2 (34)	2 (34)	2 (34)	1 (45)	1/0 (54)	2/0 (68)	3/0 (85)	3/0 (85)	4/0 (107
		GEN	NERAL NOTE	S					
n all cases qualified personnel must verif For a single unit installation		` stat	ed in the PII	M ,		,		•	remen



MDP	Main Disconnect Panel
SKL	Generator (System Cabinet/VCP Cabinet)
SEO	Emergency OFF button (Control Room), located 1
XRLC	Warning Light Control

XRL1 Warning Light

DISCOVERY XR 656 PLUS (G2) | EN-RAD-TYP-XR 656 PLUS (G2)-NF.DWG

DLK1 Door Interlock Switch (needed only if required by state/local codes)

1.50m (4.9') above floor