PHILIPS

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Final Site Preparation Support Document

The equipment components shown in this drawing package are based on the current proposed purchase and are subject to change if modifications are made to the configuration.

*Photo shown is not site specific.

Revision History

Note for Architects and/or Contractors: If revisions are listed, these drawings must be thoroughly reviewed so that all changes can be incorporated into your project.

Rev.	Date	Revision Descriptions	By
00	2/23/2024	Created preliminary site preparation support document per quote: Q-00261225.	ML
A	9/9/2024	Created pre-order site preparation support document per quote: Q-00261225. Shifted CS plan west 1 9/16 ".	ML
B	10/18/2024	Created final site preparation support document per order: 6600700919.020000. Changed MON from trolley to ceiling suspension. Added Patient Support. Moved ME/MM cabinets to plan west wall. Updated notes.	ML
C	1/31/2025	Updated per PM request: Changed MON from ceiling suspension to trolley. Updated A2, S3, E1, E2, EL. Updates notes.	ML

Table of Contents

PHILIPS

Project
ProxiDiagnost N90 R1.1
US VETERANS ADMINISTRATION
MEDICAL CENTER
Boston, MA
Room: 3

Philips Contacts
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Drawn By: Minsey Lee

Project Details
Drawing Number
N-EAS240108 C
Date Drawn: 1/31/2025
Quote: Q-00276979
Order: 6600700919.020000

C1

General Specifications

1. Planning, Design, and Implementation Process
The multidisciplinary project team should be assembled as early as possible in the design process. The multidisciplinary team should include administrators, clinicians, infection preventionists, architects and other design professionals, facility managers, safety officers, security managers, users of equipment, and support staff relevant to the areas affected by the project as well as those with knowledge of the organization's functional goal for the project. Inclusion of patient advocates/consumers, A/E consultants, and construction specialists should be considered. FGI 2018 APPENDIX A1.2-1.2

2. Responsibility
The customer shall be solely responsible, at its expense for preparation of site, including any required structural alterations. The site preparation shall be in accordance with plans and specifications provided by Philips. Compliance with all safety electrical and building codes relevant to the equipment and its installation is the sole responsibility of customer. The customer shall advise Philips of conditions at or near the site which could adversely affect the carrying out of the installation work and shall ensure that such conditions are corrected and that the site is fully prepared and available to Philips before the installation work is due to begin. The customer shall provide all necessary plumbing, carpentry work, or conduit wiring required to attach and install products ready for use.

3. Permits
Customer shall obtain all permits and licenses required by federal, state/provincial or local authorities in connection with the construction, installation and operation of the products and related rules, regulations, and shall bear any expense in obtaining same or in complying with any ordinances and statutes.

4. Protection
The customer or his contractor, at his own expense, shall obtain the service of a licensed radiation physicist to specify radiation protection. (X-Ray Tube output 150 KVp max.)

5. Asbestos and Other Toxic Substances
Philips assumes that there is no hazardous material contained in project site. The customer is responsible for the removal of any materials, including but not limited to asbestos, deemed hazardous by local authorities, the EPA, OSHA, or any other authority having jurisdiction over the work. If such materials are discovered at any time that the work is proceeding, the work will immediately cease, the owner will be notified, and the work will again proceed after the owner has removed all of the hazardous material from the job site.

6. Labor
In the event local labor conditions make it impossible or undersirable to use Philips' regular employees for such installation and connection, such work shall be performed by laborers supplied by the customer, or by an independent contractor chosen by the customer at the customer's expense, and in such case, Philips agrees to furnish adequate engineering supervision for proper completion of the installation.

7. Schedule
The general contractor shall provide Philips with a schedule of work to assist in the coordination of delivery of Philips supplied products which are to be installed by the contractor and delivery of the primary equipment.

8. Extended Installation or Turnkey Work by Philips
Any room preparation requirements for Philips equipment indicated on these drawings is the responsibility of the customer. If an extended installation or turnkey contract exists between Philips and the customer for room preparation work required by the equipment represented on these drawings, some of the responsibilities of the customer as depicted in these drawings may be assumed by Philips. In the event of a conflict between the work described in the turnkey contract workscope and these drawings, the turnkey contract workscope shall govern.

9. Electromagnetic Interference and Image Quality
The Philips digital X-Ray detectors are highly sensitive receivers. Therefore, when determining where in the facility to install the x-ray system, care must be taken to avoid electromagnetic interference (EMI) to ensure optimal image quality. Possible EMI sources can be high power generators, power transformers, high power mains lines or other electromagnetic sources, which are located in the examination room directly or in the environment around the examination room. These EMI sources may emit excessive magnetic noise that could cause artifacts in the digital detector.

10. Avoid Adjacent EMI Sources
Do not locate the digital detector in a room adjacent to such an EMI source (next to, above or below). EMI sources can be located also in the wall, floor or ceiling.

(21.0)

General Conditions (continued)

11. Detector Location and Additional Sheiding
If a location next to an EMI source is unavoidable, ensure the table and/or wallstand and proposed locations for portable detector exposures are away from these sources. The magnetic noise interference is reduced dramatically by locating as far away as possible from the EMI sources. It might be necessary to implement additional means to prevent an interference with the x-ray detector (e.g. additional shielding).

(21.0)

Minimum Site Preparation Requirements

A smooth efficient installation is vital to Philips and their customers. Understanding what the minimum site preparation requirements are will help achieve this goal. The following list clearly defines the requirements which must be fulfilled before the installation can begin.

1. Walls shall be painted or covered, baseboards installed, floors shall be tiled and/or covered, ceiling shall have grid tiles and lighting fixtures installed and operational.
2. Doors and windows, especially radiation protection barriers, installed and finished with lock sets operational.
3. All electrical convenience, conduit, raceway, knockouts, cable openings, chase nipples, and junction boxes installed and operational.
4. Incoming mains power operational and connected to room x-ray breaker.
5. 115v convenience outlets operational.
6. All support structure correctly installed. All channels, pipes, beams and/or other supporting devices should be level, parallel, and free of lateral or longitudinal movements.
7. All contractor-supplied cables pulled and terminated.
8. A dust-free environment in and around the procedure room.
9. All HVAC (heating, ventilating and air conditioning) installed and operational as per specifications. BTUs shown on sheet A1 are average heat capacity.
10. Architectural features such as computer floor, wood floor, casework, bulkheads, installed and finished. When technical cabinets are installed in a closet with doors, it is suggested that the customer install a temperature alarm in the event of an air conditioner failure.
11. All plumbing installed and finished.
12. Philips does not install or connect developing tanks, automatic processors or associated equipment, built in illuminators, cassette pass boxes, loading benches and cabinets, lead protective screens, panels or lead glass window and frame. This is to be done by the customer/contractor.
13. Refer to Transport Information page for clear door openings and corridor widths.

Note
Once Philips has moved equipment into the suite and started the installation, the contractor shall schedule his work around the Philips installation team on site. It is suggested that a telephone be provided in the room to receive telephone calls. This would alleviate facility staff from answering calls for Philips personnel.

Remote Service Diagnostics
Medical imaging equipment to be installed by Philips Healthcare is equipped with a service diagnostic feature which allows for remote and on site service diagnostics. To establish this feature, a RJ45 type ethernet 10/100/1000 Mbit network connector must be installed as shown on plan. Access to customer's network via their remote access server is needed for Remote Service Network (RSN) connectivity. All cost with this feature is the responsibility of the customer.

(13.0)

HVAC Requirement for General Equipment Locations

Heating, ventilation, air conditioning requirement for general equipment locations must maintain temperature at 75° +/- 11°Fahrenheit (24° +/- 6°Celsius) and non-condensing relative humidity at 52.5%, +/- 22.5%.

(13.0)

Electrical Requirements

Proxi Diagnost N90 G 80

Supply Configuration:	3 phase, 3 wire power and ground. Delta.
Nominal Line Voltage:	400 or 480 VAC, 60 Hz 380 or 400 VAC, 50 Hz
Circuit Breaker:	3 pole, 70 Amps (@ 480V)

(17.0)

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AN

Equipment Legend

A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional item furnished by Philips

	Equipment Designation	Description	Weight (lbs)	Heat Load (btu/hr)	Detail Sheet
A	N90	ProxiDiagnost N90	3527	1920	AD2
A	ME	Velara Generator Cabinet (40E Rack)	522	2730	AD3
A	MM	Geometry Cabinet (40E Rack)	214	1024	AD3
A	MON	Single LCD Trolley/Cart	68	205	AD4
A	ELW	Eleva Workspot - Touchscreen Color LCD - Color LCD - Computer (on shelf under counter) - Uninterruptible Power Supply (on shelf under counter) - Keyboard and Mouse	97	682	AD4
A	WAP	Wi-Fi Access Point	2	--	AD4
A	SBC	SkyPlate Battery Charger	2		AD4
A	CS	CSM Long	879	444	AD2
A	DVS	BuckyDiagnost VS Digital Tiltable (Left)	618	956	AD3
A	IB	Indication Box	2	35	AD4
A	IR	Infrared Receiver	1	3	AD4
A	PS	Patient Support	154	--	AD4

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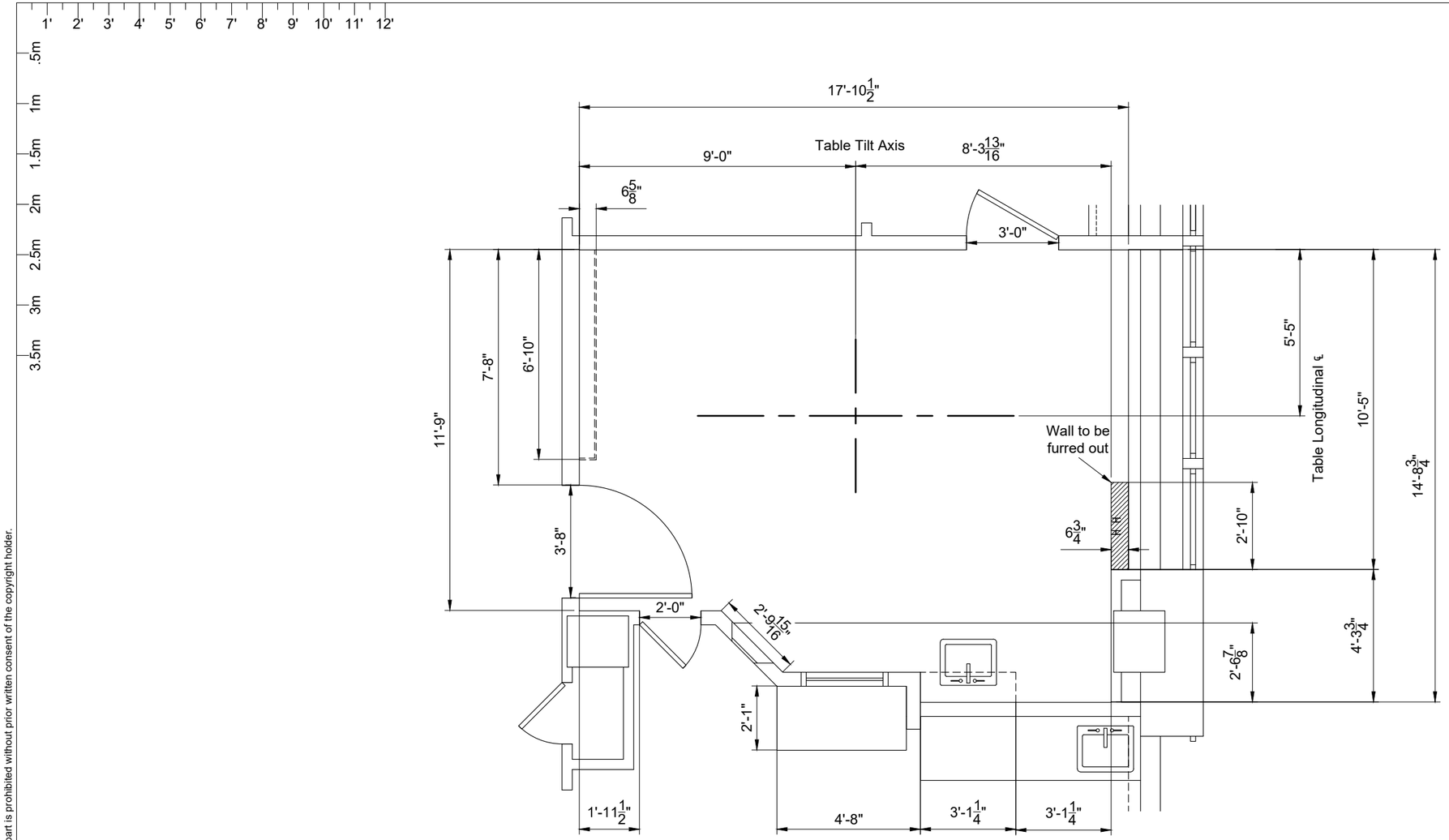
AL



Site Layout

1/4" = 1'-0"

Recommended Minimum Ceiling Height: 8'-11" (2717mm)
Recommended Maximum Ceiling Height: 10'-6" (3200mm)
Reported Ceiling Height: 9'-6" (2895mm)

Ceiling Heights other than recommended may impact equipment functionality. See Ceiling Height Guide and consult with Philips.

Ceiling Height measured from finished floor to bottom of Unistrut.

Legend

- Walls
- New Walls
- Existing (to be removed)
- Beams or other building construction elements

Site Planning Issues and Considerations

* Room background was gathered from past drawing #: "N-EAS070155" dated 1/26/2010 as reference. Existing conditions such as room dimensions, isocenter, Unistrut, soffit, built-ins, etc. to be verified by the customer/ contractor before proceeding to Final.

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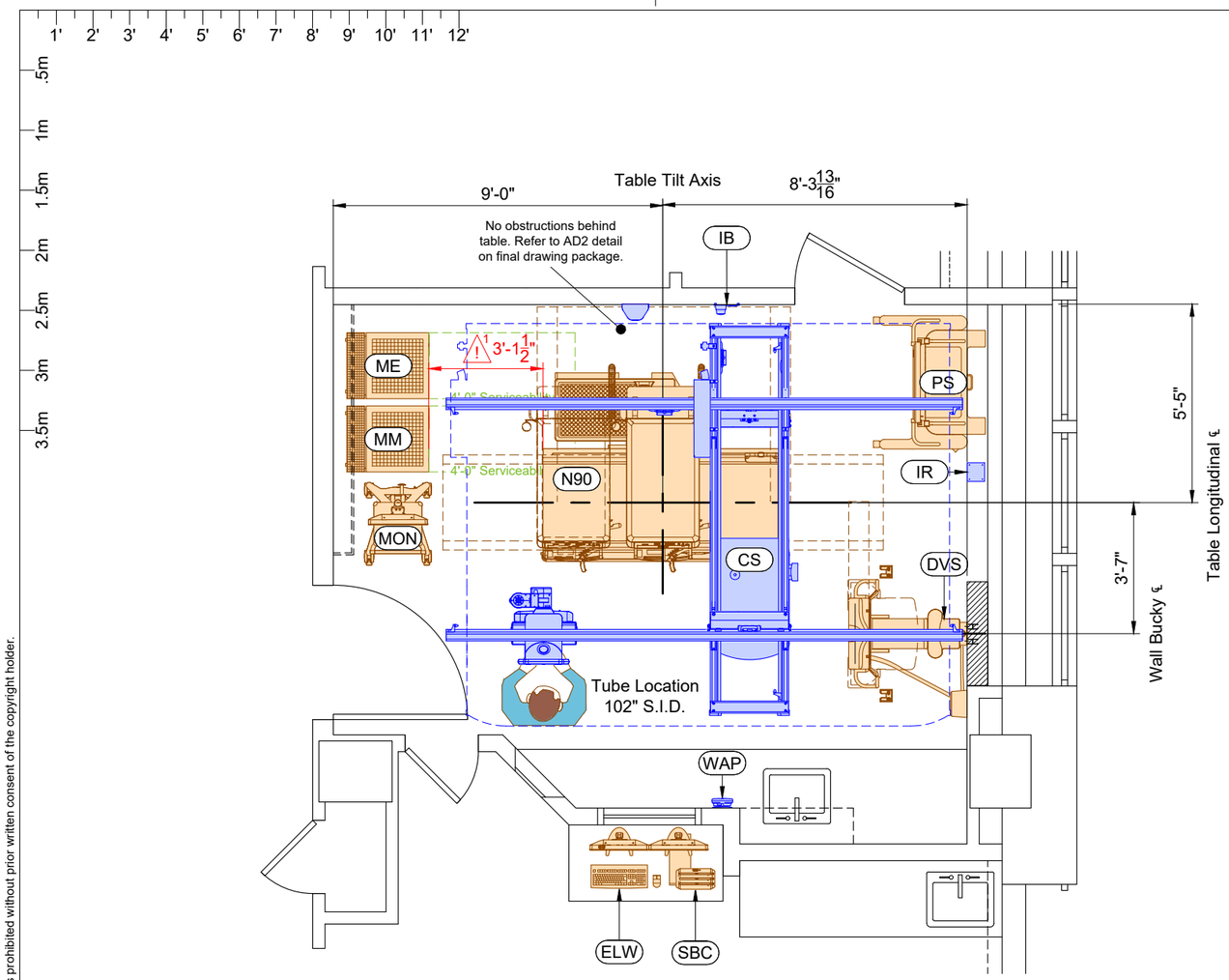
A1



Equipment Layout

1/4" = 1'-0"
Recommended Minimum Ceiling Height: 8'-11" (2717mm)
Recommended Maximum Ceiling Height: 10'-6" (3200mm)
Reported Ceiling Height: 9'-6" (2895mm)

Ceiling Heights other than recommended may impact equipment functionality. See Ceiling Height Guide and consult with Philips.

Ceiling Height measured from finished floor to bottom of Unistrut.

General Notes

* Any counters, keyboard trays and cabinetry shown to be supplied and installed by contractor. Shelf under control counter for UPS and CPU is required.
* Field to verify all existing Philips and/or third party equipment will not affect the functionality of the system and its components.

Site Planning Issues and Considerations

⚠1 A clearance of 4'-0" (1220mm) in front of system cabinets is required for safe serviceability and to meet N.E.C.. Due to the limited size/configuration of the exam room, the above mentioned clearance requirements are not met. Customer's Architect/Engineer of record are responsible for all code compliance.

* Comfort Move automatic tracking for Wall Bucky will only be available from highest position of Wall Bucky detector height to top of floating table. Technician will need to manually move the tube below the tabletop for any lower extremity exposures.
* Optional stitching shots at 102" S.I.D. will be available. See layout.
* No stretcher access to Wall Bucky due to limited room size.
* Access between table and Wall Bucky may be difficult due to limited room size.
* Relationship of control area to table will not allow view of patient when table is tilted upright.
* Room to be modified as shown on sheet A1. Wall behind DVS to be furred out.
* Potential trip hazard due to requested surface mounted floor raceway.
* Stitching with Skyplate in landscape orientation will result in a maximum patient Field of View of 37" at 102" S.I.D. to the Wall Stand; with Skyplate in portrait orientation, maximum Field of View is 46" at 102" S.I.D. to the Wall Stand.
* Use caution when floating table plan east; potential collision with Wall Bucky tray.

Notes to Philips Field Personnel

* Tabletop to be installed before table base is bolted to the floor.
* Transverse carriage to be shortened by 2'-8". (1'-4" at the front and 1'-4" at the back)
* Longer cables will need to be ordered for cable runs from:
  - "ME" and "MM" to "N90" [65' (20m)]
  - "ME" and "MM"to "CS" [45' (14m)]
* Verify exact location and configuration of existing Unistrut and electricals with local Philips service for re-use.
* Field to verify that Bucky VS and Bucky VS connection box can be mounted to existing column and that the column will provide adequate support to the Wall Bucky and coverbox.
* Field to verify existing conduit lengths, sizes, quantities, and origination and termination points.
* Electronic cover for the table to be modified as required to accommodate surface mounted raceway.
* New electrical boxes for ME/MM, MON, N90 will be required to be installed.
* Ceiling rails must connect to all Unistrut. Additional clips may need to be ordered. Maximum Unistrut spacing is 1346mm (53").

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A2

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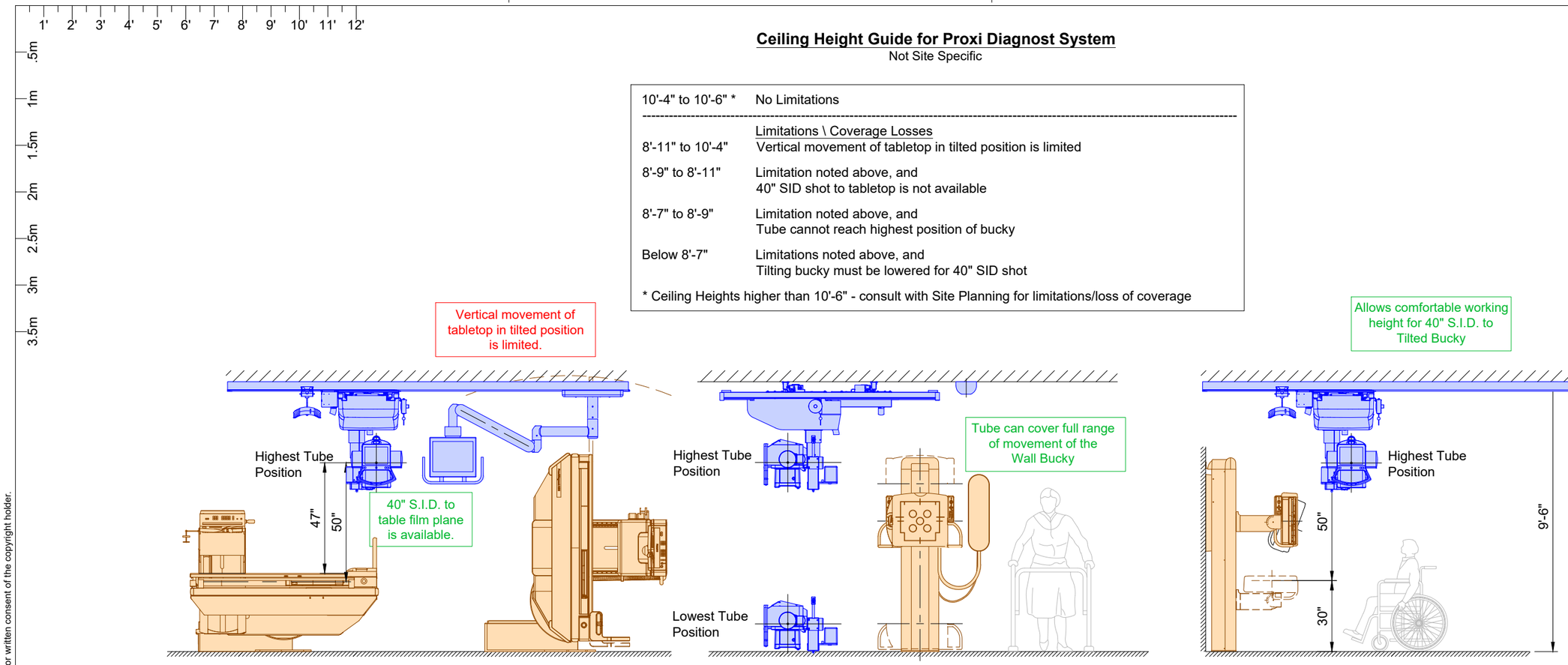
Ceiling Height Guide for Proxi Diagnost System

Not Site Specific

10'-4" to 10'-6" *	No Limitations
	Limitations \ Coverage Losses
8'-11" to 10'-4"	Vertical movement of tabletop in tilted position is limited
8'-9" to 8'-11"	Limitation noted above, and 40" SID shot to tabletop is not available
8'-7" to 8'-9"	Limitation noted above, and Tube cannot reach highest position of bucky
Below 8'-7"	Limitations noted above, and Tilting bucky must be lowered for 40" SID shot

* Ceiling Heights higher than 10'-6" - consult with Site Planning for limitations/loss of coverage



Reported Ceiling Height

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A3

3.17.2023

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED.

THE DRAWINGS AND RELATED INSTRUCTIONS PROVIDED BY PHILIPS ARE ACCEPTABLE FOR USE BY THE HOSPITAL'S ARCHITECT OR ENGINEER TO USE FOR THE DEVELOPMENT OF CONSTRUCTION DOCUMENTS.

ProxiDiagnot (Tube Crane, Table) Transport Information

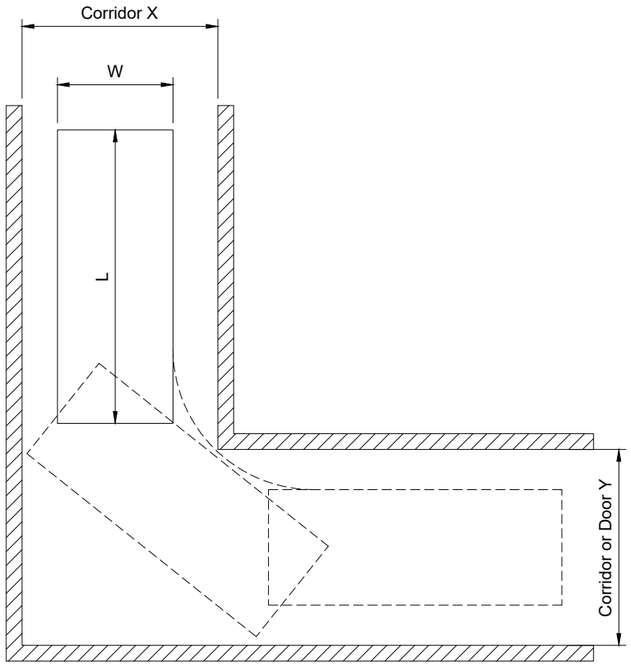

	Table Base		X-Ray Module		CSM		
	Crate B Packed	Crate B Unpacked	Crate Packed	Crate B Unpacked	Telescopic Carriage	Longitudinal Carriage Long	Longitudinal Carriage Short
Weight	718 lbs (3195N)	651 lbs (2895N)	1250 lbs (5560N)	1025 lbs (4560N)	326 lbs (1450N)	405 lbs (1800N)	212 lbs (940N)
Height	3'-11" (1.19m)	3'-8" (1.12m)	6'-8" (2.02m)	6'-4" (1.92m)	4'-7" (1.38m)	1'-4" (0.41m)	1'-4" (0.41m)
Length (L)	7'-2" (2.17m)	7'-2" (2.17m)	6'-0" (1.83m)	6'-0" (1.83m)	4'-0" (1.20m)	13'-9" (4.18m)	8'-0" (2.42m)
Width (W)	3'-8" (1.12m)	2'-6" (0.75m)	3'-1" (0.93m)	2'-9" (0.85m)	2'-7" (0.78m)	2'-7" (0.77m)	3'-1" (0.94m)
Width of Corridor "X"	Minimum Width of Corridor/Door "Y"		Minimum Width of Corridor/Door "Y"		Minimum Width of Corridor/Door "Y"	Minimum Width of Corridor/Door "Y"	Minimum Width of Corridor/Door "Y"
3'-4" (1.0m)	corridor X>W	5'-10" (1.78m)	6'-1" (1.84m)	5'-5" (1.65m)	3'-7" (1.07m)	12'-3" (3.72m)	7'-11" (2.4m)
3'-8" (1.1m)	corridor X>W	5'-5" (1.65m)	5'-4" (1.65m)	5'-0" (1.53m)	3'-3" (.99m)	11'-9" (3.58m)	7'-2" (2.17m)
4'-0" (1.2m)	7'-2" (2.17m)	5'-1" (1.54m)	5'-0" (1.53m)	4'-7" (1.40m)	3'-1" (.93m)	11'-4" (3.45m)	6'-8" (2.02m)
4'-4" (1.3m)	6'-6" (1.98m)	4'-9" (1.44m)	4'-8" (1.41m)	4'-3" (1.30m)	2'-11" (.88m)	10'-11" (3.32m)	6'-3" (1.89m)
4'-8" (1.4m)	6'-1" (1.84m)	4'-5" (1.34m)	4'-4" (1.33m)	4'-0" (1.21m)	2'-11" (.88m)	10'-6" (3.20m)	5'-10" (1.77m)
5'-0" (1.5m)	5'-7" (1.72m)	4'-1" (1.25m)	4'-1" (1.25m)	3'-9" (1.14m)	2'-11" (.88m)	10'-2" (3.10m)	5'-6" (1.66m)
5'-3" (1.6m)	5'-4" (1.62m)	3'-10" (1.17m)	3'-10" (1.17m)	3'-6" (1.07m)	2'-11" (.88m)	9'-10" (2.98m)	5'-2" (1.56m)
5'-7" (1.7m)	5'-0" (1.53m)	3'-7" (1.09m)	3'-8" (1.12m)	3'-4" (1.02m)	2'-11" (.88m)	9'-5" (2.87m)	4'-10" (1.47m)
5'-11" (1.8m)	4'-9" (1.45m)	3'-4" (1.02m)	3'-6" (1.07m)	3'-3" (0.98m)	2'-11" (.88m)	9'-1" (2.76m)	4'-8" (1.40m)
6'-3" (1.9m)	4'-6" (1.38m)	3'-2" (0.96m)	3'-5" (1.05m)	3'-2" (0.96m)	2'-11" (.88m)	8'-9" (2.66m)	4'-4" (1.31m)
6'-7" (2.0m)	4'-4" (1.33m)	3'-0" (0.92m)	3'-5" (1.03m)	3'-1" (0.95m)	2'-11" (.88m)	8'-4" (2.55m)	4'-1" (1.24m)

(18.0)

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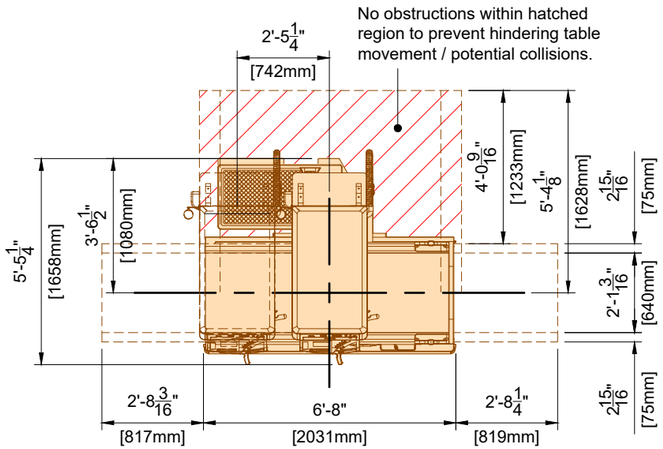
AD1

3.17.2023



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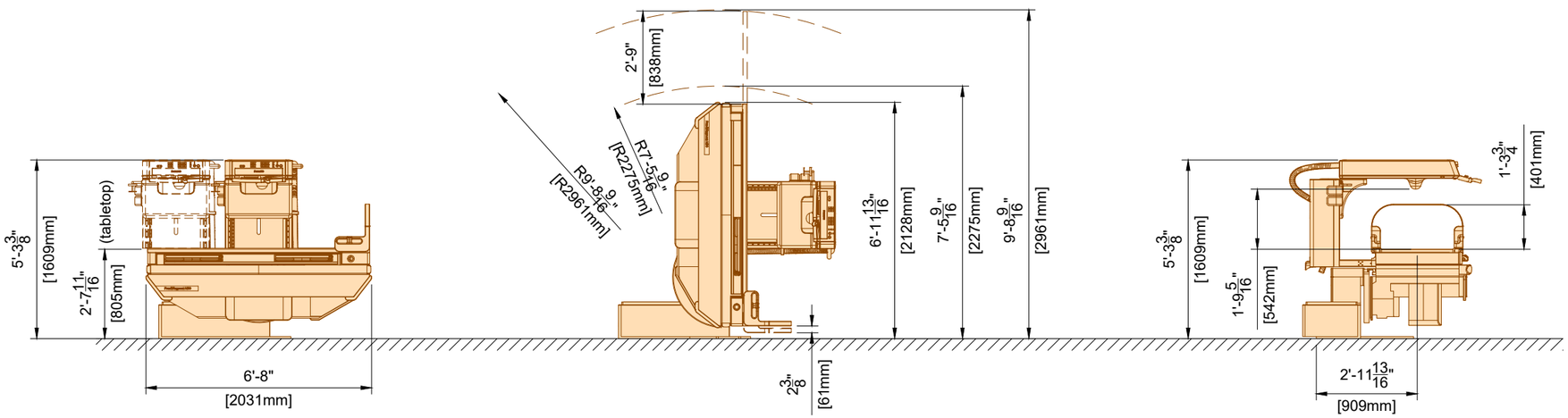

Front

Front - Tilted Table

Side (view from head-end looking towards foot-end)

(20.0)

	ProxiDiagnost N90 Stand	
N90	Weight	Heat Dissipation
	3527 lbs (1600 kg)	1920 Btu/hr (570 W)

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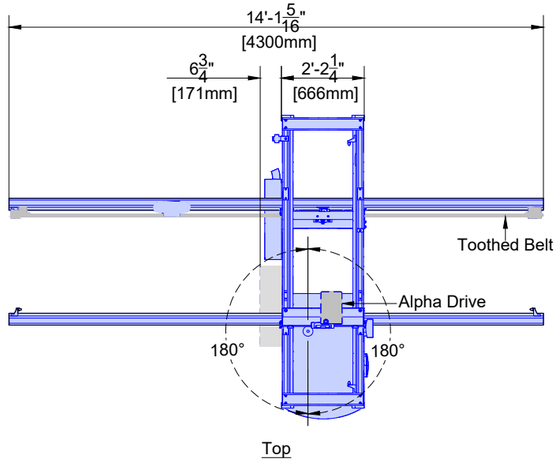
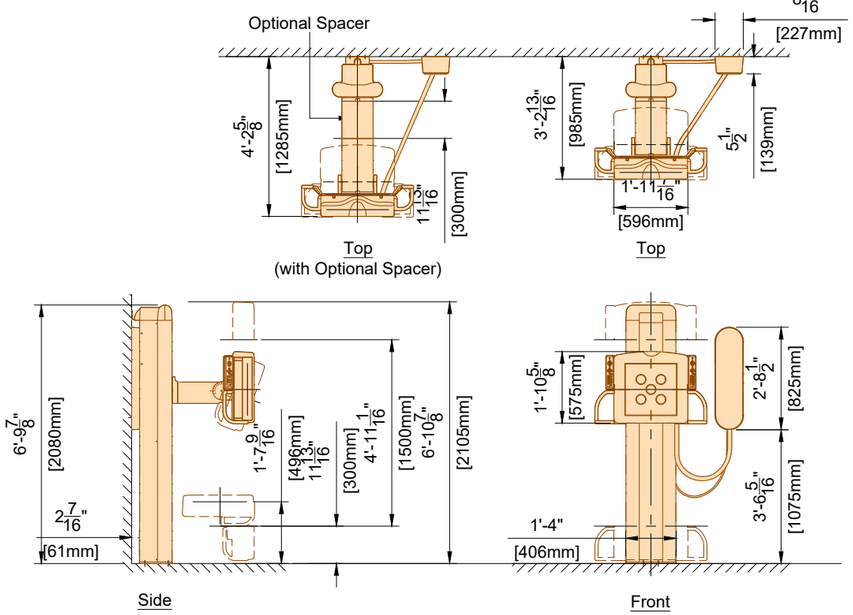
AD2

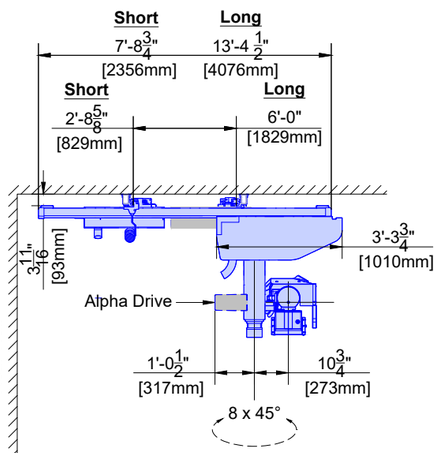


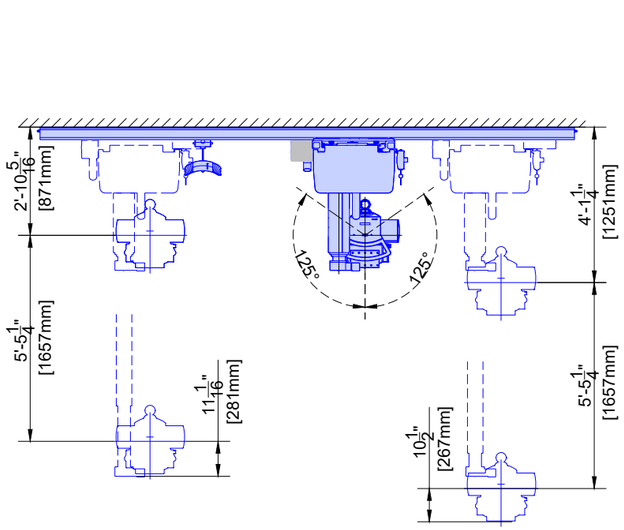


(13.0)

DVS	BuckyDiagnost VS Digital Tiltable	
	Weight	Heat Dissipation
	618 lbs (280 kg)	956 Btu/hr (280 W)

Weight of Wall Connection Box: 36 lbs (16 kg)

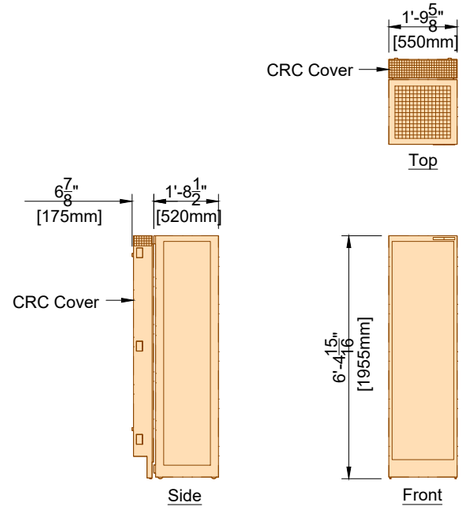




(15.0)

CS	BuckyDiagnost CSM	
	Weight	Heat Dissipation
	Short: 801 lbs (364 kg)*	444 Btu/hr (130 W)
	Long: 879 lbs (399 kg)*	

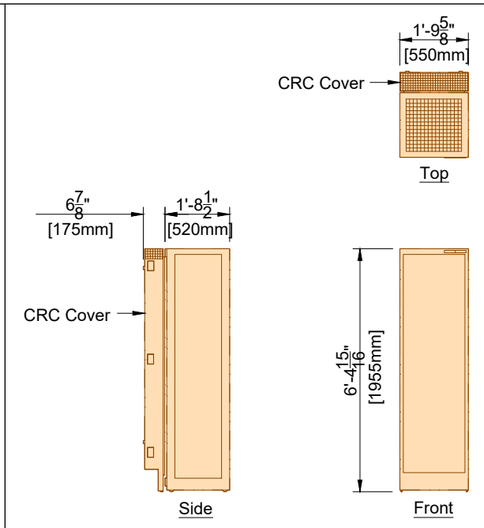
* Full length extension rails add 101 lbs (46 kg).



The CRC Cover must be attached to the back box.

(17.0)

MM	Geometry Cabinet	
	Weight	Heat Dissipation
	214 lbs (97 kg)	1024 Btu/hr (300 W)



The CRC Cover must be attached to the back box.

Acoustic noise level: ≤ 55 dB(A) @ 1 meter in front of the rack and 1 meter high (1 meter = 39.37")

(17.0)

ME	Velara Generator Cabinet	
	Weight	Heat Dissipation
	522 lbs (237 kg)	2730 Btu/hr (800 W)

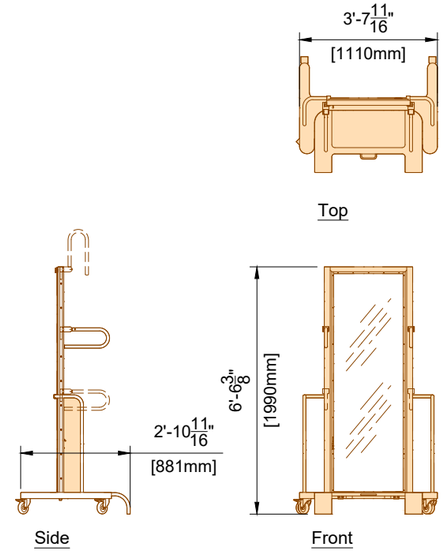
PHILIPS

Project
ProxiDiagnost N90 R1.1
US VETERANS ADMINISTRATION
MEDICAL CENTER
Boston, MA
Room: 3

Philips Contacts
Project Manager: Matthew Caron
Contact Number: (978) 502-6571
Email: matthew.caron@philips.com
Drawn By: Minsey Lee

Project Details
Drawing Number
N-EAS240108 C
Date Drawn: 1/31/2025
Quote: Q-00276979
Order: 6600700919.020000

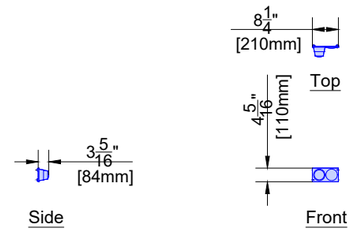
AD3



Maximum Patient Weight of 496 lbs (225 kg)
X-Ray filtration of < 0.9mm Al equivalent

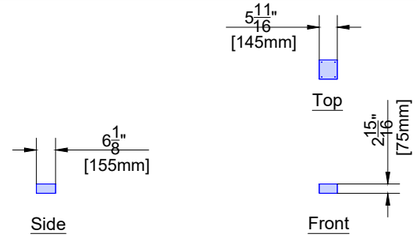
(13.0)

	Patient Support	
PS	Weight	Heat Dissipation
	154 lbs (70 kg)	0 Btu/hr (0 W)



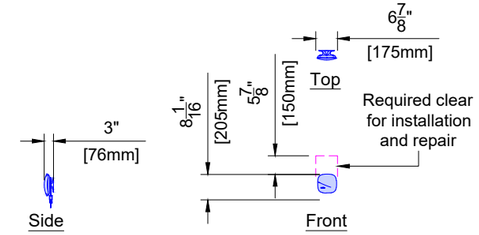
(13.0)

	Indication Box	
IB	Weight	Heat Dissipation
	2 lbs (1 kg)	35 Btu/hr (10 W)



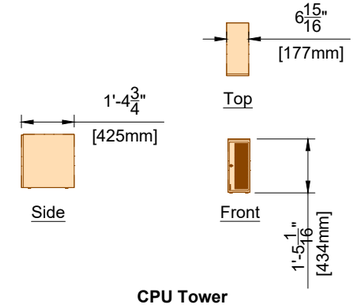
(13.0)

	Infra Red Receiver	
IR	Weight	Heat Dissipation
	1 lb (0.45 kg)	3 Btu/hr (1 W)

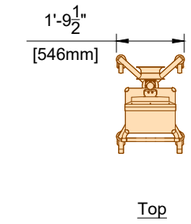


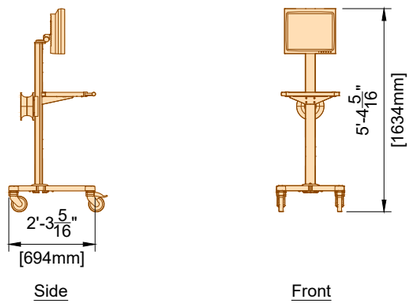
(14.0)

	Wi-Fi Access Point	
WAP	Weight	Heat Dissipation
	2.5 lbs (1.12 kg)	--



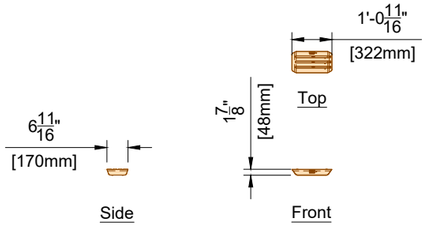
CPU Tower
Weight: 32 lbs (15 kg)



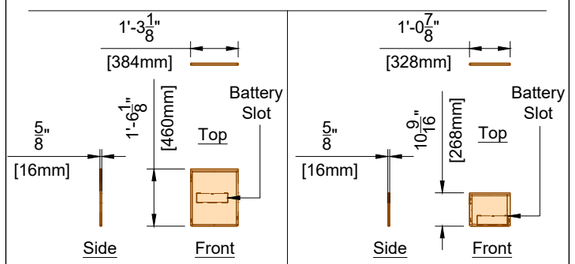


(20.0)

	One LCD Monitor Carriage	
MON	Weight	Heat Dissipation
	68 lbs (31 kg)	205 Btu/hr (60 W)



Battery Charger
Weight: 2.20 lbs (1 kg)

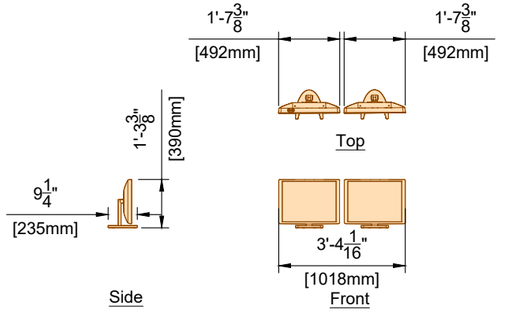


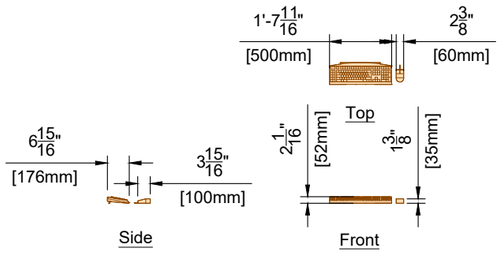
SkyPlate Wireless Detector (Large)
Weight: 5.7 lbs (2.6 kg)

SkyPlate Wireless Detector (Small)
Weight: 3.5 lbs (1.6 kg)

(14.0)

	SkyPlate Detector and Battery Charger	
SBC	Weight	Heat Dissipation
	2.20 lbs (1 kg)	--





(17.0)

	Eleva Workspot	
ELW	Weight	Heat Dissipation
	121 lbs (58 kg)	786 Btu/hr (230 W)

PHILIPS

Project
ProxiDiagnost N90 R1.1
US VETERANS ADMINISTRATION MEDICAL CENTER
Boston, MA
Room: 3

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Drawn By: Minsey Lee

Project Details
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AD4

3.17.2023

Equipment Support Information

1. General
The customer shall be solely responsible, at its expense, for preparation of the site, including any required structural alterations. The site preparation shall be in accordance with this plan and specifications, the architectural/construction drawings and in compliance with all safety and building codes. The customer shall be solely responsible for obtaining all construction permits from jurisdictional authority.

2. Equipment Anchorage
Philips provides, with this plan and specifications, information relative to equipment size, weight, shape, anchoring hole locations and forces which may be exerted on anchoring fasteners. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings, information regarding the approved method of equipment anchoring to floors, wall and/or ceiling of the building. Any anchorage test required by local authority shall be the customer's responsibility. Stud type anchor bolts should not be specified as they hinder equipment removal for service. Consult with Philips service prior to specifying anchor methods.

3. Floor Loading and Surface
Philips provides, with this plan and specifications, information relative to size, weight and shape of floor mounted equipment. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings confirmation of the structural adequacy of the floor upon which the equipment will be placed. Any load test required by local authority, shall be the customer's responsibility.

a. The floor surface upon which Philips equipment (except floor rails) is to be placed/anchored shall be flat and level to within plus or minus 1/16 inch (2mm) over a length of 39" (1m).
b. The floor surface upon which Philips floor rails are to be placed/anchored shall be flat and level to within plus or minus 1/4 inch (6mm) over the length of the floor rails.

4. Ceiling Support Apparatus

a. Philips provides, with this plan and specifications, information relative to size, weight and shape of ceiling supported equipment. The customer shall be solely responsible, through the engineer of record for the building, to provide on the architectural/construction drawings, information regarding the approved method of structural support apparatus, fasteners and anchorage to which Philips will attach equipment. Any anchorage and/or load test required by local authority shall be the customer's responsibility.
b. Contractor to clearly mark Philips equipment longitudinal centerline on bottom of each structural support.
c. The structural support apparatus surface to which Philips equipment is to be attached, shall have horizontal equipment attachment surfaces parallel, square and level to within plus or minus 1/16 inch (2mm).
d. Any drilling and/or tapping of holes required to attach Philips equipment to the structural support apparatus shall be the responsibility of the customer.
e. Fasteners, anchors (e.g. bolts, spring nuts, lock and flat washers), and strip closures shall be provided by the customer.

5. Lighting
Lighting fixtures shall be placed in such a position that they are not obscured by equipment or its movement, nor shall they interfere with Philips ceiling rails and equipment movement or otherwise adversely affect the equipment. Such lighting fixture locations shall be the sole responsibility of the customer.

6. Ceiling Obstructions
There shall be no obstructions that project below the finished ceiling in the area covered by ceiling suspended equipment travel.

7. Seismic Anchorage (For Seismic Regions Only)
All seismic anchorage hardware, including brackets, backing plates, bolts, etc., shall be supplied and installed by the customer/contractor unless otherwise specified within the support legend on sheet S1. Installation of electronic cabinets to meet seismic anchorage requirements must be accomplished using flush mounted expansion type anchor/bolt systems to facilitate the removal of a cabinet for maintenance. Do not use threaded rod/adhesive anchor systems. Consult with Philips regarding any anchor system issues.

8. Floor Obstructions/Floor Coverings
There shall be no obstructions on the floor (sliding door tracks, etc.) in front of the Philips electronic cabinets. Floor must be clear to allow cabinets to be pulled away from the wall for service. Technical equipment room floor shall be commercial grade "VCT" Vinyl Composition Tile or a flooring material of equal hardness and compression resistance.

(21.0)

PHILIPS

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ProxiDiagnost N90 R1.1
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MEDICAL CENTER
Boston, MA
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Drawn By: Minsey Lee

Project Details
Drawing Number
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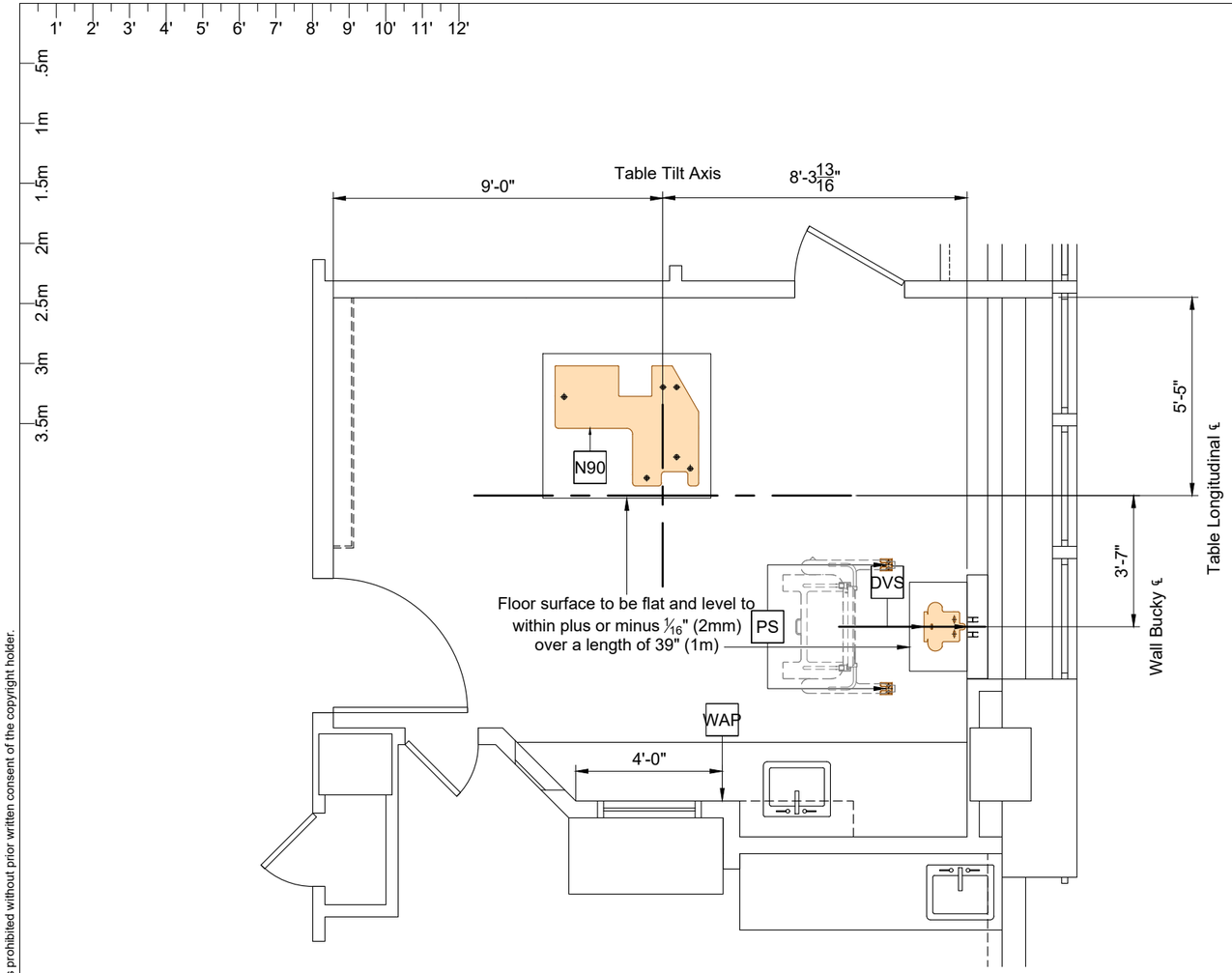
SN



Support Layout - Floor & Walls

1/4" = 1'-0"
Recommended Minimum Ceiling Height: 8'-11" (2717mm)
Recommended Maximum Ceiling Height: 10'-6" (3200mm)
Reported Ceiling Height: 9'-6" (2895mm)

Ceiling Heights other than recommended may impact equipment functionality.
See Ceiling Height Guide and consult with Philips.

Ceiling Height measured from finished floor to bottom of Unistrut.

Floor & Wall Support Legend

A Furnished and installed/anchored by Philips (see exceptions - Note 2, below)
B Furnished by customer/contractor and installed/anchored by customer/contractor
C Installed/anchored by customer/contractor
D Furnished by Philips and installed/anchored by contractor
E Existing
F Future
G Optional item furnished by Philips

	Item Number	Description	Detail Sheet
D	N90	Floor Plate	SD3
B	N90	Anchorage in floor for floor plate	SD3
B	DVS	Support in wall for BuckyDiagnost VS	SD4
B	DVS	Anchors in floor for BuckyDiagnost VS	SD4
B	DVS	Anchors in wall for BuckyDiagnost VS	SD4
A	VSC	Anchors in wall for BuckyDiagnost VS Connection Box (not shown)	SD4
A	WAP	Wi-Fi Access Point - optional wall mounting	SD3
A	PS	Optional Anchors in floor for Patient Support Floor Fixing Plates	SD5

All dimensions must be off of the finished wall.

If a wall is furred out to hide electrical duct or boxes, the dimensions included in this plan must come off of the finished furred wall.

Notes:
1. Anchors for items that are installed/anchored by customer/contractor shall be provided by customer/contractor.
2. Anchors for items that are installed/anchored by Philips shall be provided by Philips. If customer's engineering documents specify anchors other than those listed in this document, the anchors shall be provided by customer/contractor and installed by Philips.
3. In all instances, the wall and/or floor support are the sole responsibility of the customer/contractor. The customer's architect/engineer of record shall specify wall and/or floor support sufficient for the bolt forces shown on the details.

PHILIPS

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ProxiDiagnost N90 R1.1
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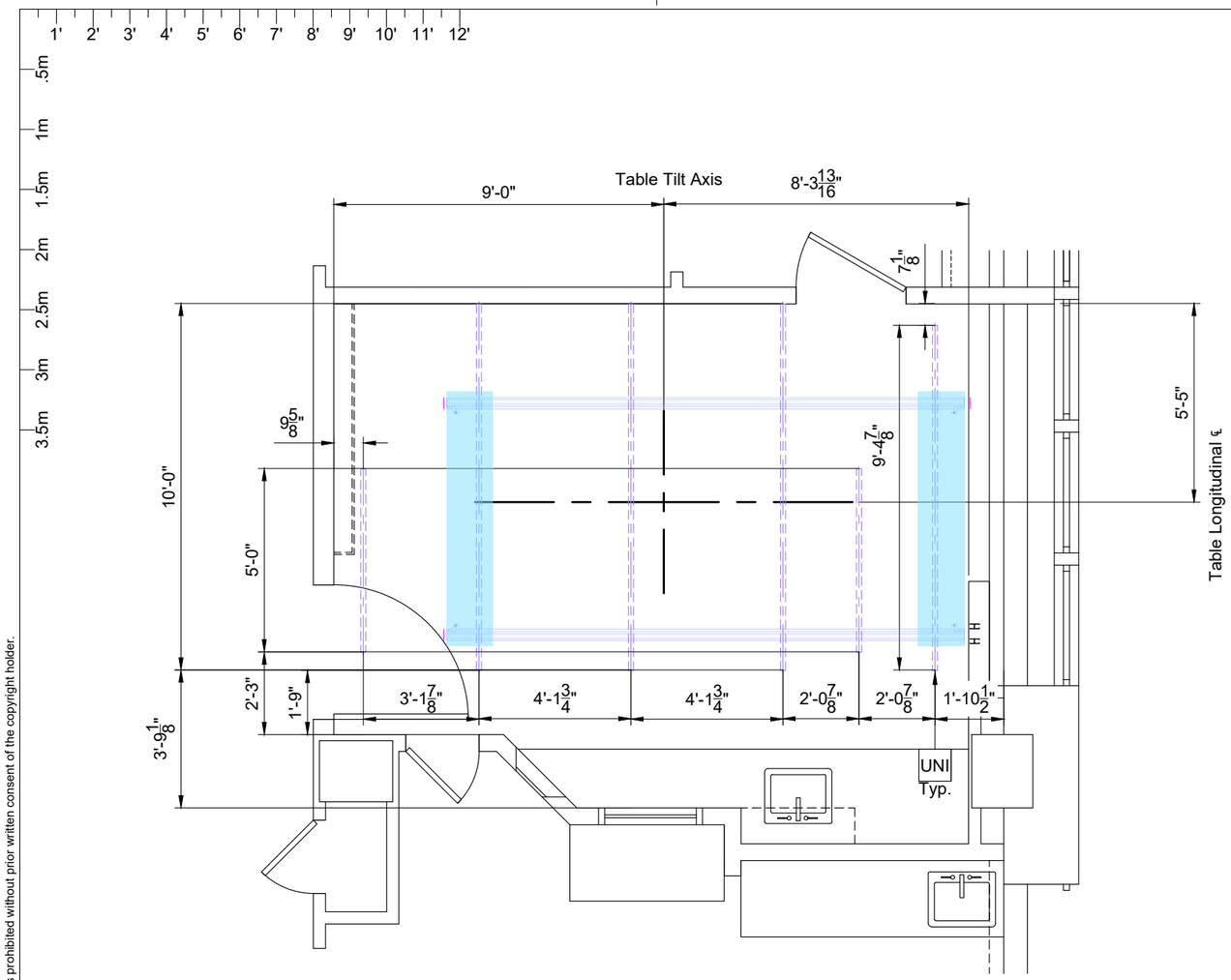
S1

3.17.2023



Ceiling Support Layout (Unistrut)

1/4" = 1'-0"

Reported Ceiling Height: 9'-6" (2895mm)

Ceiling Support Legend

A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional item furnished by Philips

	Item Number	Description	Detail Sheet
E	UNI	Unistrut (P1001 or equal)	SD5

All dimensions must be off of the finished wall.

If a wall is furred out to hide electrical duct or boxes, the dimensions included in this plan must come off of the finished furred wall.

PHILIPS

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ProxiDiagnost N90 R1.1
US VETERANS ADMINISTRATION
MEDICAL CENTER
Boston, MA
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Drawn By: Minsey Lee

Project Details
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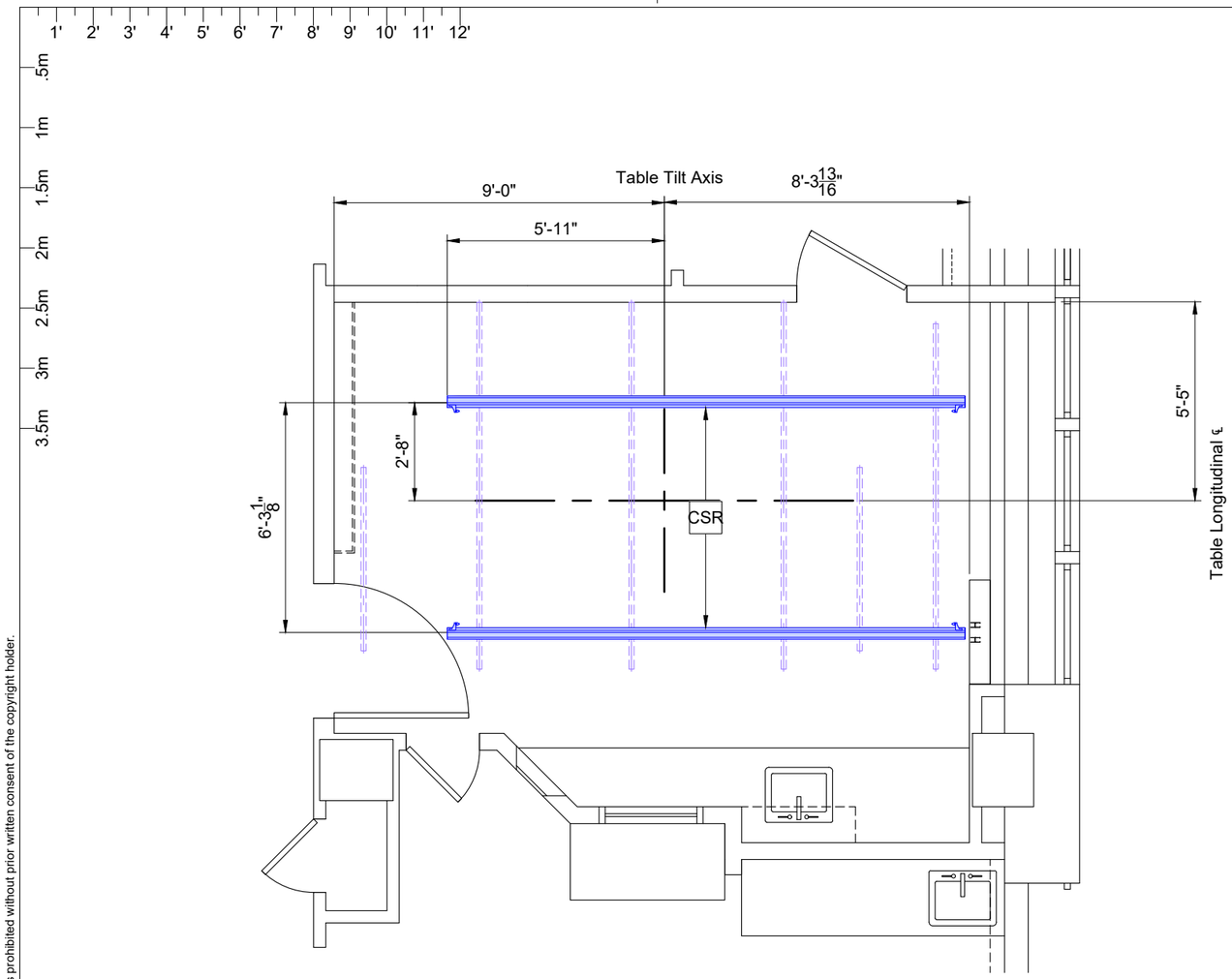
S2

3.17.2023



Ceiling Support Legend

A Furnished and installed by Philips
B Furnished by customer/contractor and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing
F Future
G Optional item furnished by Philips

	Item Number	Description	Detail Sheet
A	CSR	Philips Equipment Rails	SD5

All dimensions must be off of the finished wall.

If a wall is furred out to hide electrical duct or boxes, the dimensions included in this plan must come off of the finished furred wall.

Ceiling Support Layout (Equipment)

1/4" = 1'-0"

Reported Ceiling Height: 9'-6" (2895mm)

PHILIPS

Project
ProxiDiagnost N90 R1.1
US VETERANS ADMINISTRATION
MEDICAL CENTER
Boston, MA
Room: 3

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Order: 6600700919.020000

S3

3.17.2023

Pre-Evaluated and -Approved Anchor Reference List for **Philips Installers**

Anchors for items that are installed/anchored by customer/contractor shall be provided by customer/contractor.
Anchors for items that are installed/anchored by Philips shall be provided by Philips. If customer's engineering documents specify anchors other than those listed below, the anchors shall be provided by customer/contractor and installed by Philips.
In all instances, the wall and/or floor support are the sole responsibility of the customer/contractor. The customer's architect/engineer of record shall specify wall and/or floor support sufficient for the bolt forces shown on the details.

Equipment	Option	Anchor Style (provided by Philips)	Anchor Size (provided by Philips)	Qty.	Support Size & Material (provided & installed by customer/contractor)
Patient Support Floorplates	A	Simpson or Hilti Drop-in with Stainless Steel Phillips Oval Head Screw with dress washer	¼" x 1"L	4	Concrete Slab
	B	Hex Head Lag Bolt with flat washer	#14 x 1"L	4	Wood Frame Floor
Wireless Detector Docking Station	A	SPAX Multipurpose Flat Head Screw	#10 x 1½ "L	2	Drywall with minimum ¾" plywood backing
	B	Round Phillips Head Self Drilling Screw	#10-16 x 1½""	2	Drywall with min. 10 Gauge Steel Backing
	C	Toggler SnapToggle with Round Head Screw	#BA with #10-24 x 2½"L	2	Drywall (⅝"D min)
	D	Toggler Alligator with SPAX Multipurpose Flat Head Screw	Toggler Alligator #A6 with SPAX #10 x 1½"L	2	Concrete Wall
BuckyDiagnost VS (Advanced and Digital) Wall Anchorage	A	Through Bolt	⅜" diameter	4	Minimum 10 gauge steel plate[1], or Minimum 4"x 4" Douglas Fir # 2 grade
	B	Self Drilling Tek Screw	# 14	4	Minimum 10 gauge steel plate[1]
	C	Lag Screw	7⁄16"	4	Minimum 4" x 4" Douglas Fir # 2 Grade
	D	Toggler Snaptoggle Anchor	⅜" diameter expansion screw	4	Minimum 10 Gauge Steel Plate[1]
BuckyDiagnost VS Connection Box	A	SPAX Multipurpose Flat Head Screw	#10 x 1½"L	4	Drywall with Wood Backing
	B	Round Phillips Head Self Drilling Screw	#10-16 x 1½L"	4	Drywall with min. 10 Gauge Steel Backing
	C	Toggler SnapToggle with Round Head Screw	#BA with #10-24 x 2½"L	4	Drywall (⅝"D min)
	D	Round Phillips Head Self Drilling Screw	# 10-16 x 1½"L	4	Metal junction box or raceway
	E	Toggler Alligator with SPAX Multipurpose Flat Head Screws	Toggler Alligator #A6 with SPAX #10 x 1½"L	4	Concrete Wall or Hollow Concrete Block Wall
Parking Frame for Accessories (RAD)	A	SPAX Multipurpose Flat Head Screw	#10 x 1½" L	4	Drywall with min. ¾" plywood backing
	B	Phillips Round Head Self Drilling Screw	#10-16 x 1½"L	4	Minimum 16 Gauge Steel Backing
	C	Toggler SnapToggle with Round Head Screw	#BA with #10-24 x 2½"L	4	Drywall (⅝"D min)
	D	Toggler Alligator with SPAX Multipurpose Flat Head Screw	#A6 with SPAX #10 x 1½"L	4	Concrete Wall
Pediatric Support Parking Stand	A	Hilti KB-TZ with OD flat washer and hex nut	½ x 3¾"L	TBD	Concrete Slab
	B	Long Lag Bolt with ID and OD flat washer	½" x 2½"L	TBD	Wood Frame Floor
Stretch Grip Parking Bracket	A	SPAX Multipurpose Flat Head Screw	#10 x 1½" L	3	Drywall with min. ¾" plywood backing
	B	Toggler SnapToggle with Round Head Screw	#BA with #10-24 x 2½"L	3	Drywall
Tube Crane Box Cover	A	Round Phillips Head Self Drilling Screw	#10-16 x 1½"L	4	Metal junction box or raceway

[1] Unistrut, angle, or c -channel material is preferred.

(15.0)

PHILIPS

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SD1

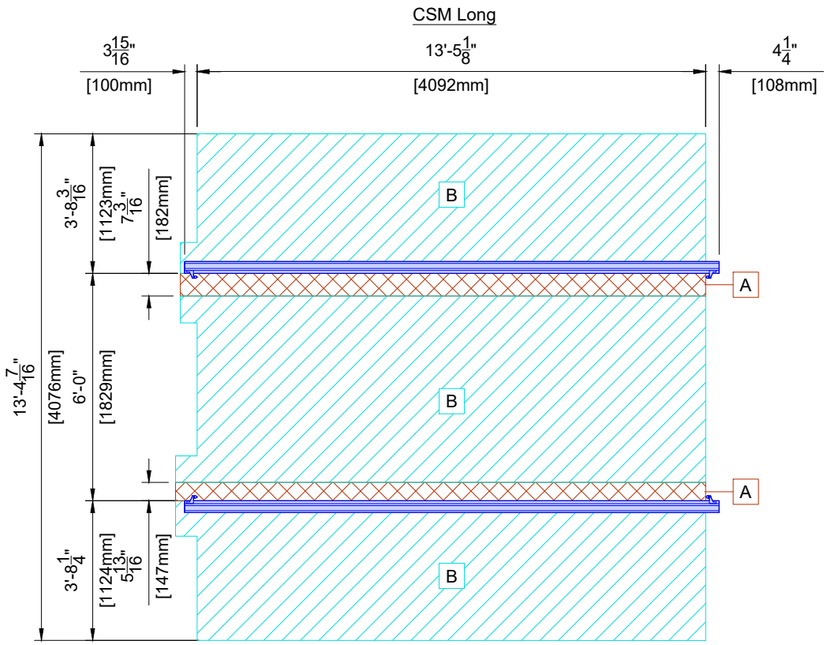
Ceiling Clearance Detail - Restricted Ceiling Area for Objects that Project Below Finished Ceiling

(Not site specific)

A Objects that project below finished ceiling are NOT allowed in this area (e.g. lights, smoke detectors, sprinkler heads, soffits, ceiling rails, etc).

B Objects that project more than 3.5" below finished ceiling are NOT allowed in this area (e.g. lights, smoke detectors, sprinkler heads, soffits, etc).

CSM Long



21.0

THIS SHEET IS PART OF THE DOCUMENT SET LISTED ON SHEET C1 AND SHOULD NOT BE SEPARATED.

PHILIPS

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ProxiDiagnost N90 R1.1
US VETERANS ADMINISTRATION
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SD2

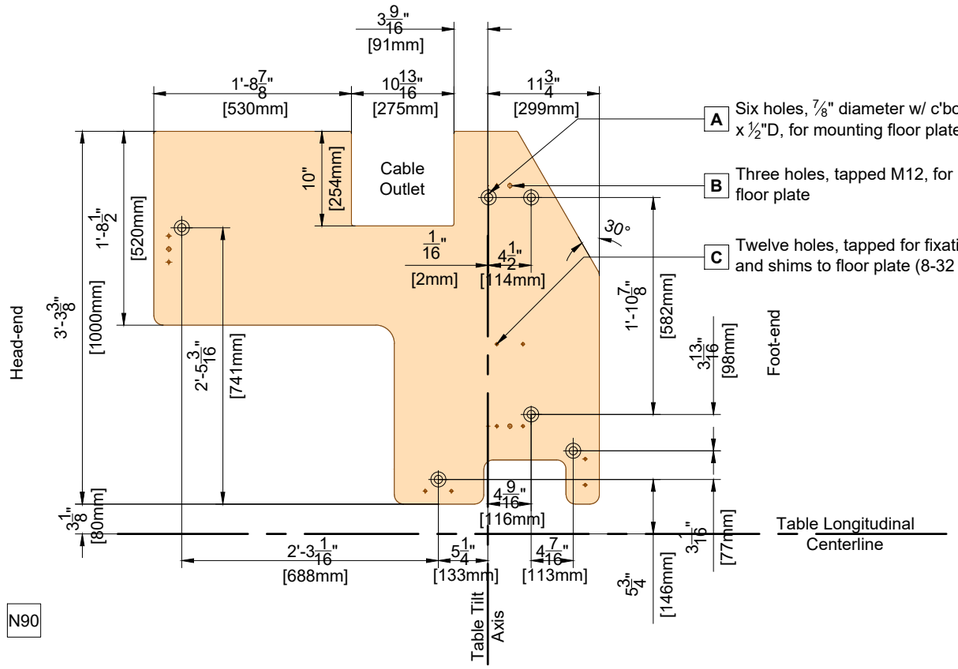
3.17.2023

Detail -ProxiDiagnost Floor Plate

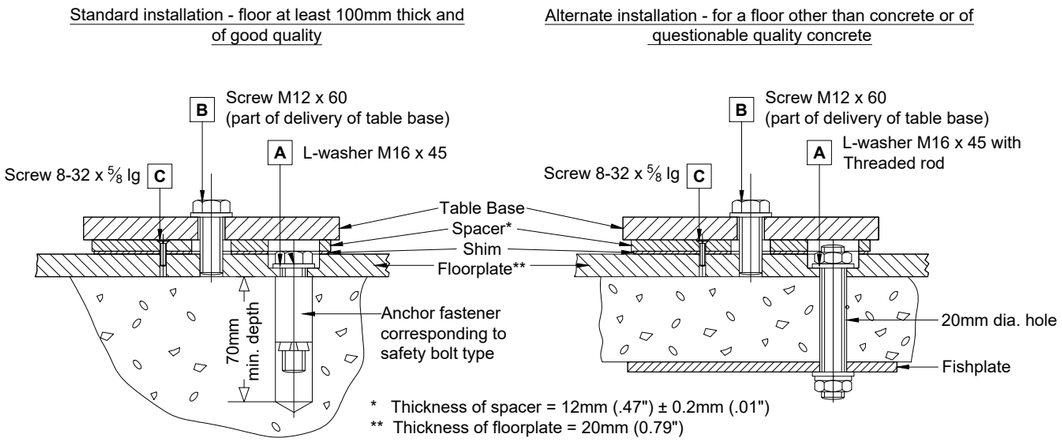
(Not to scale)

Customer / contractor shall recommend and provide floor plate anchoring

Detail - Plan View of Bolt Locations and Cable Outlet



Detail - Floor Plate Section



Bolt Forces
Max Extraction Force = -2920 N (~660 lbs) per bolt
(For seismic area forces, consult seismic calculation documents)

Notes

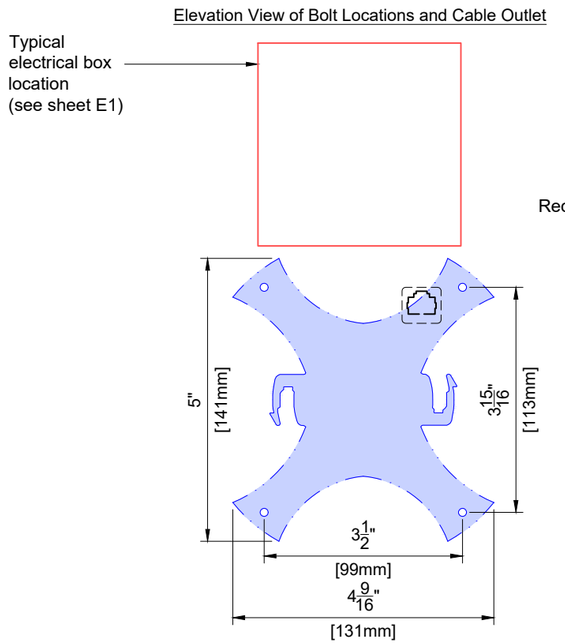
1. Floor plate may be surface or flush mounted.
2. Floor plate is supplied by Philips and installed by customer.
3. Floor plate must be level within 1.5mm (0.06") across surface of plate.
4. Floor anchors must NEVER be filed down or modified during installation.
5. Floor anchors must NEVER extend more than 6.35mm (0.25") above floor plate.

(19.0)

Detail - Wi-Fi Access Point - Wall Mounted)

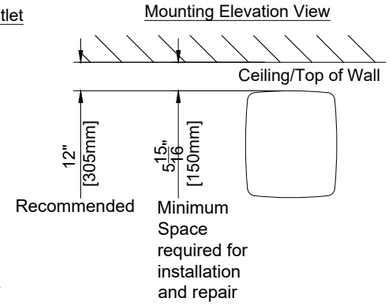
(Not to scale)

Elevation View of Bolt Locations and Cable Outlet



Front View

Mounting Elevation View



WAP

(17.0)

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US VETERANS ADMINISTRATION
MEDICAL CENTER
Boston, MA
Room: 3

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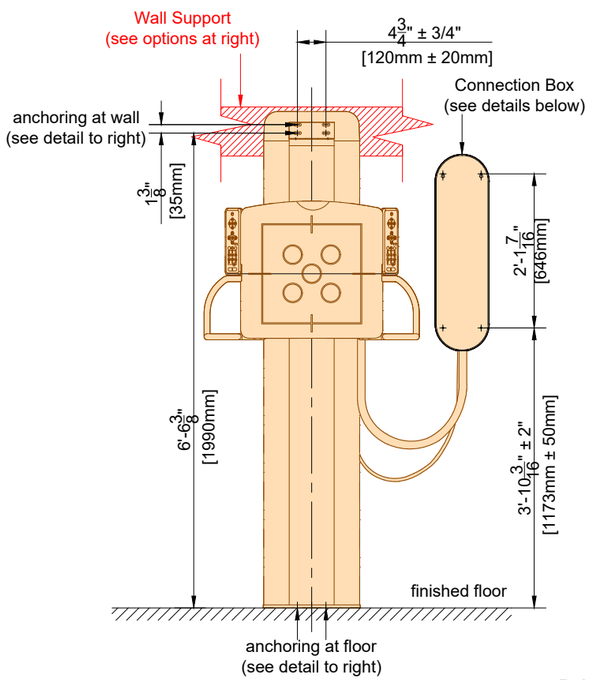
Order: 660070091 9.020000

SD3

Detail - BuckyDiagnost VS Digital

(Not to scale)

Elevation View of Bolt Locations



Wall Support Options

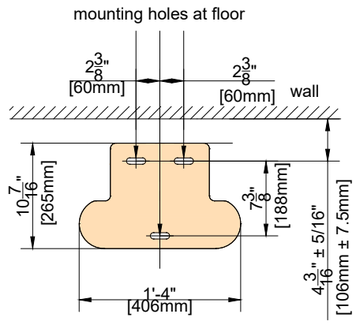
The customer's architect/engineer of record shall specify a wall support sufficient for the bolt forces specified. Anchors will be provided by Philips, and the wall support is the sole responsibility of the customer/contractor. Below are Philips' pre-evaluated and approved methods of providing support:

Option	Anchor Style (Provided by Philips)	Anchor Size	Anchor Quantity	Wall Support Size & Material (Provided & installed by customer/contractor)
A	Through Bolt	3/8" diameter	4	Minimum 10 Gauge Steel Plate[1], or Douglas Fir #2 Grade (minimum 4" x 4")
B	Self Drilling Tek Screw	#14	4	Minimum 10 Gauge Steel Plate[1]
C	Lag Screw	7/16"	4	Douglas Fir #2 Grade (minimum 4" x 4")
D	Toggler Snaptoggle Anchor	3/8" diameter expansion screw	4	Minimum 10 Gauge Steel Plate[1]

[1] Unistrut, angle, or c-chanel material is preferred.

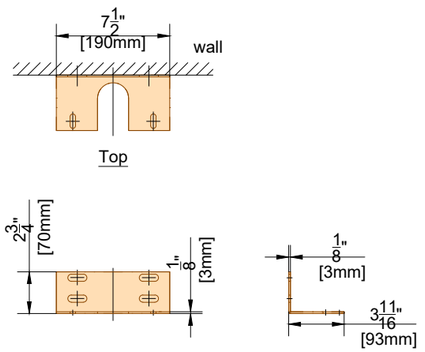
Bolt Forces
Wall mounting points must be suitable to tensile strength Fs ≥ 1500N (338 lbf) each anchor.
(Seismic area forces - consult seismic calculation documents)

Floor Anchoring Details



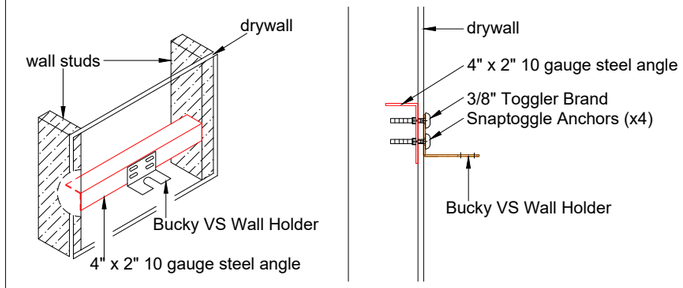
Top

Wall Holder / Bracket Details



Top Front Side

Wall Anchoring Example
Illustration of Wall Support with Steel Plate and Toggler Anchor



Isometric Side

Bolt Forces
The floor mounting points must be suitable for tensile strength Fs ≥ 500N (113 lbf) for each screw.
(Seismic area forces - consult seismic calculation documents)

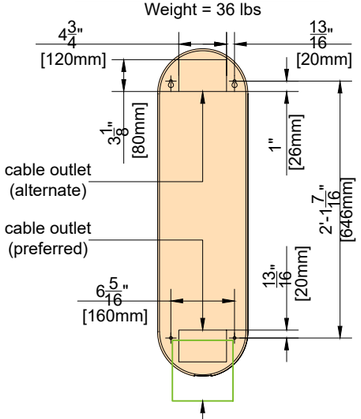
DVS

(13.0)

Detail - BuckyDiagnost VS Advanced Connection Box

(Not to scale)

Elevation View of Connection Box
Weight = 36 lbs



Wall Support Options

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Option	Anchor Style (Provided by Philips)	Anchor Size	Anchor Quantity	Wall Support Size & Material (Provided & installed by customer/contractor)
A	SPAX Multipurpose Flat Head Screw	#10 x 1½"L	4	Drywall with wood backing
B	Round Phillips Head Self Drilling Screw	#10-16 x 1½"L	4	Drywall with minimum 10 gauge steel backing
C	Toggler SnapToggle with Round Head Screw	#BA with #10-24 x 2½"L	4	Drywall (⅝"D min.)
D	Round Phillips Head Self Drilling Screw	#10-16 x 1½"L	4	Metal junction box or raceway

Bolt Forces
Tmax (Tension) = 39 lbs/bolt
Vmax (Shear) = 36 lbs/bolt
(Seismic area forces - consult seismic calculation documents)

VSC

(13.0)

PHILIPS

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ProxiDiagnost N90 R1.1
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Boston, MA
Room: 3

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Project Details
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Order: 6600700919.020000

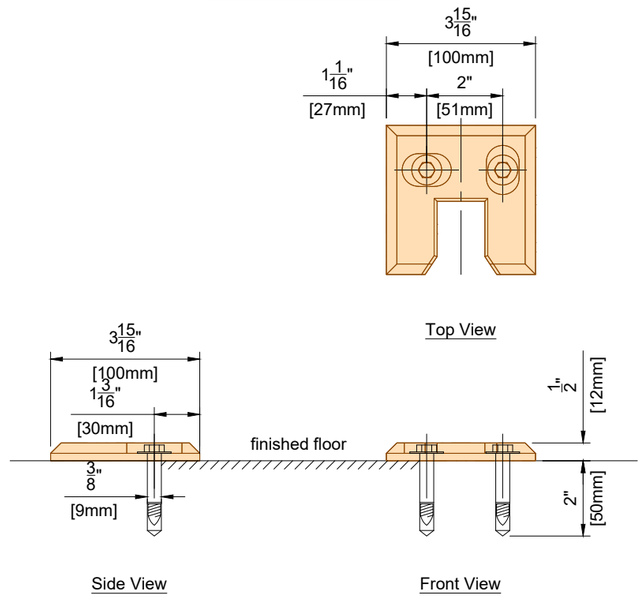
SD4

3.17.2023

Detail - Patient Support Floor Fixing Plates (Qty = 2)

(Not to scale)

Details and Bolt Locations



Support Options

The customer's architect/engineer of record shall specify a support sufficient for the bolt forces specified. Anchors will be provided by Philips, and the support is the sole responsibility of the customer/contractor. Below are Philips' pre-evaluated and approved methods of providing support:

Option	Anchor Style (Provided by Philips)	Anchor Size	Anchor Quantity	Support Size & Material (Provided & installed by customer/contractor)
A	Simpson or Hilti drop-in with Stainless Steel Phillips oval-head screw with dress washer	¼" x 1"L	4	Concrete Slab
B	Hex Head Lag Bolt with flat washer	#14 x 1"L	4	Wood Frame Floor

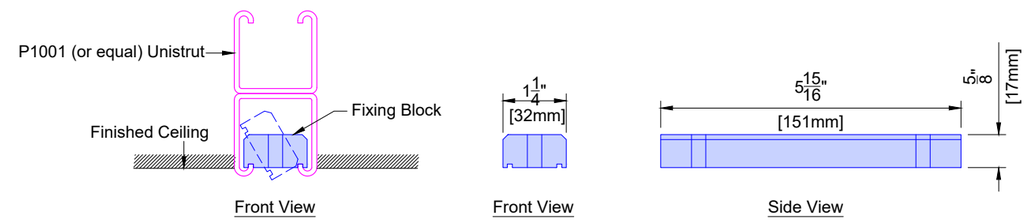
PS

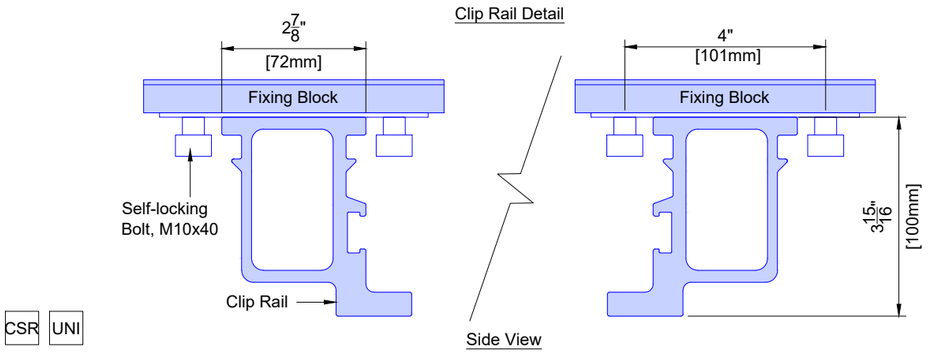
(13.0)

Detail - Ceiling Support

(Not to scale)

Fixing Block for Philips Ceiling Rails (Clip Rails) Detail





CSR UNI

- Philips does not specify the overhead equipment support structure. Unistrut (or equal) may or may not be used. If Unistrut are used, it is up to Unistrut and the structural engineer for the project to determine which of it's products are appropriate for each project.
- Finished ceiling must **NOT** be lower than the bottom of the Unistrut in order to prevent damage to the finished ceiling during the installation of clip rails.
- Finished ceiling height to be 1/4" above bottom of Unistrut.
- Nothing shall be attached to the Unistrut with any fastener that protrudes into the Unistrut which would interfere with positioning of the fixing block.
- Fixing blocks for Philips ceiling rails (clip rails) are designed to be installed in P1001 Unistrut.
- The inside of the Unistrut must be clear of obstructions (including paint).
- Unistrut elements must be rigid and comply with the ceiling structure requirements. See SN sheet, item #4 "Ceiling Support Apparatus".

Tube Crane Support Forces	Tension Forces	Compressive Forces
CSM	956 lbs/support	192 lbs/support

(Support = 2 screws into each Fixing Block)

(Seismic area forces - consult seismic calculation documents)

(13.0)

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SD5

3.17.2023

General Electrical Information

1. General
The customer shall be solely responsible, at its expense, for preparation of the site, including any required electrical alterations. The site preparation shall be in accordance with this plan and specifications, the architectural/construction drawings and in compliance with all safety and electrical codes, the customer shall be solely responsible for obtaining all electrical permits from jurisdictional authority.

2. Materials and Labor
The customer shall be solely responsible, at its expense, to provide and install all electrical ducts, boxes, conduit, cables, wires, fittings, bushing, etc., as separately specified herein.

3. Electrical Ducts and Boxes
Electrical ducts and boxes shall be accessible and have removable covers. Floor ducts and boxes shall have watertight covers. Ducts shall be divided into as many as three separate channels by metal dividers, separately specified herein, to separate wiring and/or cables into groups as follows: Group A: power wiring and/or cables, Group B: signal and/or data and protective ground wiring and/or cables, Group C: x-ray high voltage cables. The use of 90 degree ells is not acceptable. On ceiling duct and wall duct use 45 degree bends at all corners. All intersecting points in duct to have cross over tunnels supplied and installed by contractor to maintain separation of cables.

4. Conduit
Conduit point-to-point runs shall be as direct as possible. Empty conduit runs used for cables may require pull boxes located along the run. Consult with Philips. A pull wire or cord shall be installed in each conduit run. All conduits which enter duct prior to their termination point must maintain separation from other cables via use of dividers, cross over tunnels, or conduit supplied and installed by contractor from entrance into duct to exit from duct. Do not use flex conduit unless approved by Philips Service.

5. Conductors
All conductors, separately specified, shall be 75°C stranded copper, rung out and marked.

6. Disconnecting Means
A disconnecting means shall be provided as separately specified.

7. Warning Lights and Door Switches
"X-ray on" warning lights and x-ray termination door switches should be provided at all entrances to x-ray rooms as required by code.

8. Dimmer Switches
X-ray room lights should be provided with dimmer switches.

(13.0)

Electrical Notes

1. The contractor will supply & install all breakers, shunt trip and incoming power to the breakers. The exact location of the breakers and shunt trips will be determined by the architect or contractor.
2. The contractor shall supply & install all pull boxes, raceways, conduit runs, stainless steel covers, etc. Conduit/raceways must be free from burrs and sharp edges over its entire length. A Greenlee pull string/measuring tape (part no. 435, or equivalent) shall be provided with conduit runs.
3. All pre-terminated, cut-to-length cables will be supplied and installed by Philips. See Conduit List for information regarding all other cables (e.g. cables to breakers, etc.).
4. Provide and install 4 - 2"(50mm) diameter chase nipples between adjacent wall boxes (not required if raceway installed above and below wall boxes).
5. Electrical raceway shall be installed with removable covers. The raceway should be accessible for the entire length. In case of non - accessible floors, walls and ceilings, an adequate number of access hatches should be supplied to enable installation of cabling. Approved conduits may be substituted. All raceways will be designed in a manner that will not allow cables to fall out of the raceway when the covers are removed. In most cases, this will require above-ceiling raceway to be installed with the covers removable from the top. Raceway system as illustrated on this drawing are based upon length of furnished cables. Any changes in routing of raceway system could exceed maximum allowable length of furnished cables. Conduit or raceway above-ceiling must be kept as near to finished ceiling as possible.
6. Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or National Electrical Codes, whichever governs.
7. Convenience outlets are not illustrated. Their number and location are to be specified by the customer/architect.
8. All sections of raceway and conduit shall be grounded with an independent #6AWG green wire that is to be attached using solderless lugs All ceiling mounted structural support members and ceiling plates shall also be grounded. All grounding connections, terminals, etc. shall be installed in a manner to provide accessibility for inspection, maintenance, repair, etc.
9. The contractor is to ensure system cables that run from the system cabinet to the table are not run under the slab in ground floor installations. They need to be run in a trough or a raceway in the floor per NEC section 390 Underfloor Raceway. Conduits may not be allowed in a basement slab. The cables from the cabinets to the table are not certified in a wet environment/area.

(20.0)

Electrical Requirements

Electrical power distribution at the facility shall comply with:

- Utilization voltages per ANSI C84.1 - 1982 range A.
- Voltage to be supplied is 3 phase, 3 wire power and ground (delta or wye) unless otherwise noted in equipment specifications.
- Phase conductors to be sized for instantaneous voltage drop per NEC 517-73 and Philips recommendations.
- Neutral and ground conductors to be sized equivalently to phase conductors, unless otherwise noted.
- Metal conduit shall not be used as the equipment ground conductor.
- Clamping type surge suppressors are highly recommended in addition to standing facility lighting arrestors. Equipment to be protected from ANSI/IEEE C62.41-1980 location category B impulses.
- ANSI/NFPA 70 - National Electrical Code (NEC)
  Article 250 - Grounding
  Article 517 - Health Care Facilities
- ANSI/NFPA 99 - Health Care Facilities Code
- NEMA standard XR 9 - Power Supply Guidelines for X-Ray Machines
- A clearance of 4'-0" (1220mm) in front of all system cabinets is required for Philip' safe serviceability and to meet NEC requirements.

(21.0)

Power Quality Guidelines

1. Power supplied to medical imaging equipment must be separate from power feeds to air conditioning, elevators, outdoor lighting, and other frequently switched or motorized loads. Such loads can cause waveform distortion and voltage fluctuations that can hinder high quality imaging.
2. Equipment that utilizes the facility power system to transmit control signals (especially clock systems) may interfere with medical imaging equipment, thus requiring special filtering.
3. The following devices provide a high impedance, nonlinear voltage source, which may affect image quality: static UPS systems, series filters, power conditioners, voltage regulators.

   Do not install such devices at the mains supply to medical imaging equipment without consulting Philips installation or service personnel.
4. Line impedance is the combined resistance and inductance of the electrical system and includes the impedance of the power source, the facility distribution system, and all phase conductors between the source and the imaging equipment. The minimum conductor size is based on the total line impedance and NEC requirements. Impedance calculations are to be performed by an electrical engineer).

(21.0)

PHILIPS

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Drawing Number
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EN

3.17.2023

Electrical Legend

A Furnished and installed by Philips
B Furnished and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing - Field to verify suitability for reuse
F Future
G Optional

	Item Number	Description	Detail Sheet
		Floor	
B	N90	Grommet opening at the end of "FR1." Exact size to be coordinated with local Philips Service.	ED1
B	FR1	10" (254mm) W x 4" (102mm) D floor raceway surface mounted with removable screw-type cover plate.	ED1
E	MS	10" (254mm) W x 10" (254mm) L x 4" (102mm) D floor box flush mounted in finished floor without cover plates.	
		Ceiling	
E	IR	6" (150mm) W x 6" (150mm) L x 4" (100mm) D ceiling box with removable screw-type cover plate, flush mounted. Mount I.R. box to box cover. Location shown is recommended and may be changed - verify relocation with local Philips Service.	
		Duplexes and Network Connectors	
B		120V, 15A dedicated duplex outlet. Coordinate exact location with local Philips Service.	
B	N	RJ45 type Ethernet 10/100/1000 Mbit network connector. Access through customer's network to VPN device capable of connecting to the Philips Remote Service Network (RSN) Datacenter is needed. Refer to page N1 for RSN connectivity options. Locate within 10' (3050mm) of network card. Network Fiber optic and Ethernet cabling, connectors, wall boxes, patch panels, etc, are the responsibility of the purchaser. Philips assumes no responsibility for procurement, installation, or maintenance of the components.	N1

Electrical Legend

A Furnished and installed by Philips
B Furnished and installed by customer/contractor
C Installed by customer/contractor
D Furnished by Philips and installed by contractor
E Existing - Field to verify suitability for reuse
F Future
G Optional

	Item Number	Description	Detail Sheet
		Wall	
B	CB	480V, 3 phase 70 AMP circuit breaker with shunt trip. Run power from breaker to MM, leaving an 8' tail. See Sheet ED1 for power quality requirements. Location per local code or owner requirements. (Not shown on plan)	ED1
B	ST	Shunt Trip (emergency off) Large mushroom-head button on remote control station with contacts to operate feature of CB. (If required by local code or owner, and mandatory for VA and DOD installations). (Not shown on plan)	
B	WL	Warning Light - Provide a surface or flush mounted light fixture above door to indicate when X-Ray is on. Provide a 115V, 15A normally open relay in this fixture. (Not shown on plan)	ED1
B	DS	Door Switch - 120V, 5A switch limited to open when door is open. Mount in upper corner on strike side of main entry door(s) (Cooper no. 1665 or equivalent), if required by local code or physicist of record. (Not shown on plan)	ED1
B	S1	Single pole general purpose ON/OFF switch with red cover. Safety switch is required between scanner unit and "WL" for Philips Service, if a warning light is used. Locate near system disconnect if possible or "MM" wall box. (Not shown on plan)	ED1
B	ME MM	19 1/4" (489mm) W x 67" (1702mm) H x 4" (102mm) D flanged-edge terminal wall box with removable screw-type cover plate, flush mounted 81" (2060mm) A.F.F. to top of box. Conduits to terminate at conduit knock outs provided on top, bottom, or sides of terminal wall box. If raceway is used at top and / or bottom of terminal wall box, remove panel(s) of terminal box by drilling out pop rivets. Top and bottom panels will slide out without the need for cutting. Cutting of the box is prohibited as it will void the UL listing. Weight is approximately 125lbs per box. See ED1 page for wall box ordering instructions.	ED1
B	ELW	Grommet cable opening on "WR2". Location shown is recommended and may be changed - verify relocation with local Philips Service.	
B	WR1 WR3	10" (254mm) W x 4" (102mm) D wall raceway, flush mounted with removable screw-type cover plate. "WR1" is 4" (102mm) A.F.F. to bottom of raceway. "WR3" is at 81" (2057mm) A.F.F. with removable screw-type cover plate.*	ED1
E	WR2	10" (254mm) W x 4" (102mm) D wall raceway, surface mounted with removable screw-type cover plate. "WR2" is 4" (102mm) A.F.F. to bottom of raceway.	ED1
B	WAP	4" (102mm) W x 4" (102mm) L x 4" (102mm) D wall box with removable screw-type cover plate, flush mounted 12" (305mm) below top of wall to top of box. Location shown is recommended and may be changed - verify relocation with local Philips Service.	
E	DVS	6" (152mm) W x 6" (152mm) L x 4" (102mm) D wall box with removable screw-type cover plate, flush mounted 39" (991mm) A.F.F. to bottom of box.	
E	IB	4" (102mm) W x 4" (102mm) L x 4" (102mm) D wall box with removable screw-type cover plate, flush mounted 84" (2134mm) above finished floor to bottom of box. Location shown is recommended and may be changed - verify relocation with local Philips Service.	
B	CS	8" (203m) W x 8" (203mm) L x 6" (152mm) D wall box, flush mounted with removable screw-type coverplate. Top of box 21" (533mm) below finished ceiling.	
B	MON	8" (203mm) W x 8" (203mm) L x 4" (102mm) D wall box with removable screw type cover plate, flush mounted 6" (152mm) above finished floor.	

*WR1 and / or WR3 are only needed if conduit knock outs within the terminal wall box are not the sufficient size, quantity, or in the proper locations as required. As noted for "ME", the top and bottom panels can be removed by drilling out the pop-rivets and pulling the panel out. Raceway size and length can be changed as needed as long as the raceway is a minimum of 19 ¼" (489mm) in length to cover the entire opening of the removed top or bottom panel(s) and the terminal wall box remains at a mounting height of 81" (2057mm) A.F.F. Raceways cannot be deeper than the terminal wall box, they must fit securely behind the terminal wall box flanged-edge.

PHILIPS

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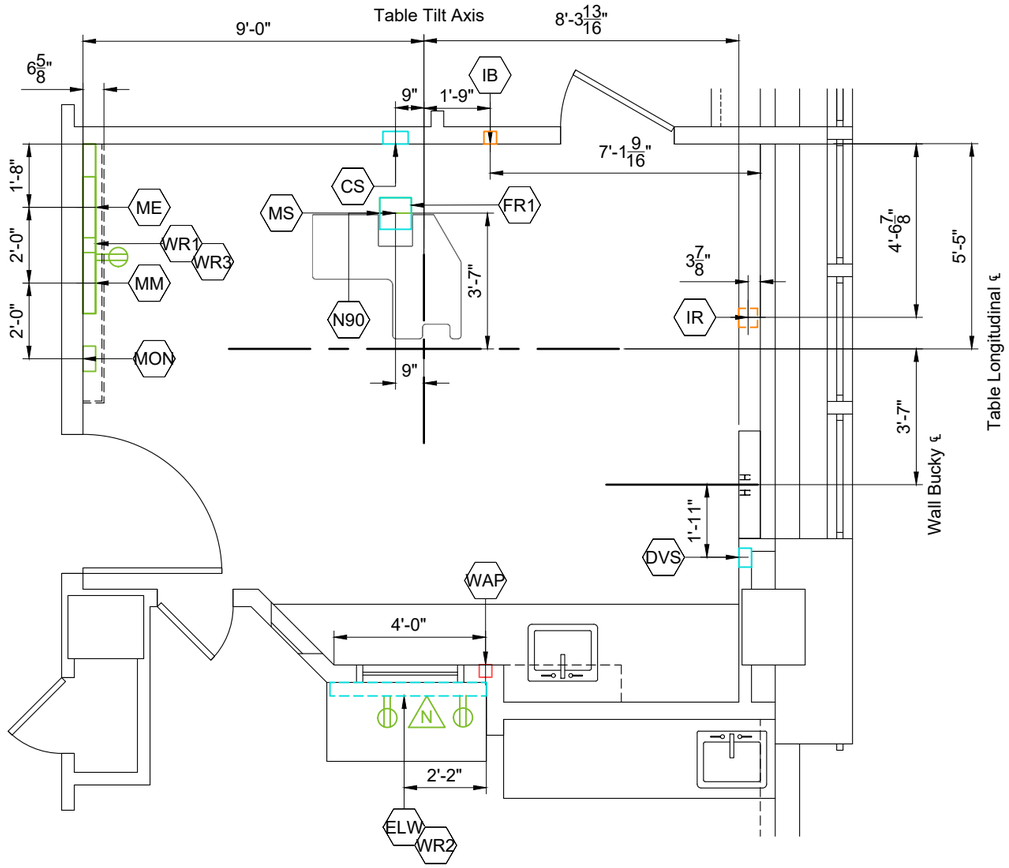
ETL



Electrical Layout

1/4" = 1'-0"

Reported Ceiling Height: 9'-6" (2895mm)

Refer to Electrical Legend - Sheet EL and Conduit - Sheet E2

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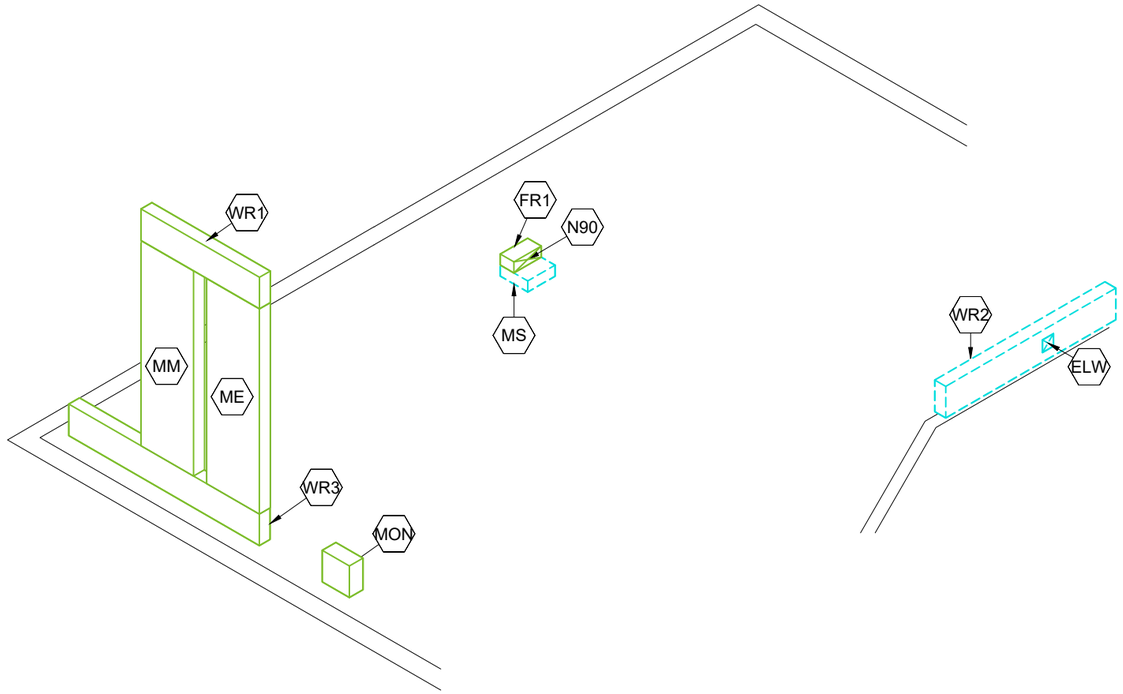
E1

3.17.2023

Isometric Layout
(Not to scale)



Raceway Diagram
(Not to scale)

Refer to Electrical Legend and Layout - Sheet E1

The use of 90 degree ells is not acceptable; use 45 degree bends at all raceway corners. The use of crossover tunnels at all applicable locations is required.

Conduit Required

General Notes

1. All conduit runs must take most direct route point to point.
2. All conduit runs must have a pull string.

- A Conduit supplied/installed by contractor - Philips cables installed by Philips
- B Conduit supplied/installed by contractor - Philips cables installed by contractor
- C Conduits and cables supplied and installed by contractor
- D Conduit existing - cables supplied and installed by Philips
- E Conduit existing - cables supplied by Philips and installed by contractor
- F Conduit existing - cables supplied and installed by contractor
- G Optional equipment, verify with local Philips Service

* **P** Power (AC), **D** Power (DC), **G** Ground, **S** Signal, **H** High Tension, **C** Cooling Hose, **A** Air Supply Hose

	Conduit Run No.	Conduit From	Conduit To	Conduit Quantity	Cable Type (*)	Minimum Conduit Size	Maximum Conduit Length	Special Requirements
C	1	Power Panel	CB	1	P	Per N.E.C.	Per N.E.C.	
C	2	CB	MM	1	P	2"	50'	8' of the 50' cable to be left as a tail.
C	3	CB	ST	1	P	3/4"	50'	
C	4	MM	S1	1	P	1/2"	--	Max combined cable length = 50'
C	5	S1	WL	1	P	1/2"	--	
C	6	MM	DS	1	S	1/2"	50'	
A	7	ME	N90	1	S	2"	39'	
A/D	8	ME	N90	1	P	2 1/2"	39'	
A/D	9	ME	N90	1	S	2"	39'	
A/D	10	MM	N90	1	P	2 1/2"	39'	
A/D	11	MM	N90	1	S	2 1/2"	39'	
A	12	ELW	N90	1	S	2 1/2"	65'	
A/D	13	ME	CS	1	P	3"	32'	
A/D	14	ME	CS	1	S	2"	32'	
A/D	15	MM	CS	1	P	2 1/2"	32'	
A/D	16	MM	CS	1	S	2"	32'	
A	17	ME	MM	1	P	2 1/2"	--	Via Raceway. Max cable length = 1'
A	18	ME	MM	1	S	2 1/2"	--	MM and ME cabinets cannot be separated.
A/D	19	MM	ELW	1	P	2 1/2"	72'	
A	20	MM	ELW	1	S	2 1/2"	72'	
A	21	MM	MON	1	P	1 1/2"	39'	
A	22	ELW	MON	1	F	1 1/2"	39'	
A/D	23	ME	DVS	1	S	2"	72'	
A/D	24	MM	DVS	1	P	1 1/2"	72'	
A/D	25	MM	DVS	1	S	2"	72'	
A	26	ELW	DVS	1	S	1 1/2"	88'	
A	27	WAP	ELW	1	P	1 1/2"	65'	Ethernet cable. Conduit if required by local code.
A/D	28	MM	IB	1	S	1 1/2"	55'	
A	29	MM	IR	1	S	1 1/2"	55'	

PHILIPS

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E2

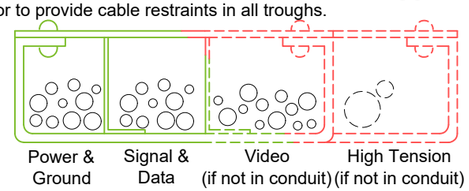
3.17.2023

Detail - Cable Trough Divisions

(Not to scale)

Troughs or ducts must be separated by metal barriers into three sections.

1. High voltage (H.T.) cables to be routed separately from all other cables.
2. Power cables and ground cables can be routed together.
3. Signal cables and data cables can be routed together but must be separated from power cables.
4. Video cables to be routed separately from all other cables.
5. It is important that all cables are placed in the appropriate trough and at no given point do any cables from one division cross with cables from another. Trough separation must be continuous from the beginning to the end of the run. Utilize crossover tunnels as appropriate.
6. Trough or ducts: steel with steel dividers grounded to building ground.
7. Contractor to provide cable restraints in all troughs.



WR3 WR1 WR2

(21.0)

Detail - Wall Box Ordering Instructions

(To be ordered and installed by Customer/Contractor)

Distinctive Manufacturing Group Method of Business Transactions for Philips Customers
Part# 989801220367 Philips Xray Wall Box

Terminal Blocks will be supplied by Philips and delivered with ME/MM cabinets

1) Three ordering methods:
   -Email: backbox@thedmgusa.com
   -Phone: 260-495-1818
   -Fax: 260-495-1822

2) Payment Terms - Credit Card Only
   -MasterCard
   -Visa
   -Discover
   -American Express

3) Lead Time
   -3 Week Lead time

4) Freight
   -All shipments will be shipped on skid
   -Freight will be Pre-paid and added (PP+) to the invoice at time of shipment

ME MM

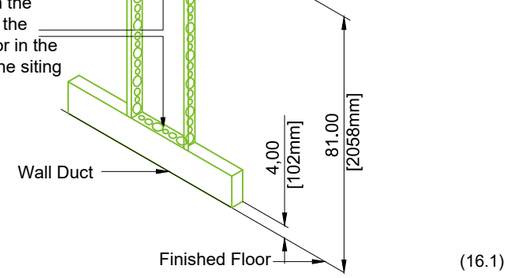
(23.0)

Detail - Wall Box Mounting

(Not to scale)

Pop-rivets on top and bottom can be removed for direct integration with raceway ducts. DO NOT remove top and bottom if conduit hubs are used.

Wall Ducts are only needed if conduit knock outs within the terminal wall box are not the sufficient size, quantity, or in the proper location to meet the siting requirements.



ME MM

(16.1)

Power Quality Requirements

(Proxi Diagnost N90 80 Generator)

Power Output:	80 kW
Supply Configuration:	3 phase, 3 wire power and ground. Delta.
Nominal Line Voltage:	400 or 480 VAC, 60 Hz
Load Voltage Drop:	<2% maximum of nominal voltage between phases
Frequency Variation:	0.5 Hz / min.
Static Power Consumption:	52.3 kW
Current per Phase during Continuous X-ray:	<8 A @ 3mA/110kV
Power Consumption at define profile:	870W
- 61.5% Standby	
- 37.5% Fluoro	
- 1.0% Exposure	
Continuous Fluoroscopy:	
High Voltage	40 - 125 kV
Tube Current	0.2 - 30 mA
Pulsed Fluoroscopy:	
High Voltage	40 - 125 kV
Tube Current	2.5mA - 200mA
Pulse Width	0.1 - 30 Hz
Ground and Neutral Conductor Impedance:	<0.1 Ω @ 60Hz maximum

Branch Circuit and Wire Gauge Requirements

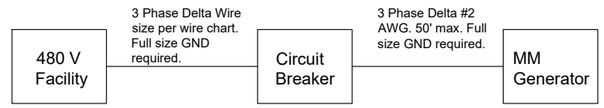
(ProxiDiagnost N90 80 Generator)

Circuit Breaker to MM (CB):	3 pole, 70 amperes (@ 480V)
Maximum Current per Phase:	100 kV / 800 mA

Recommended conductor sizes for 1% impedance of branch conductors to circuit breaker (CB). Based on 20°C copper conductors:

	480 VAC
#1 AWG	95 feet
1/0 AWG	119 feet
2/0 AWG	150 feet
3/0 AWG	190 feet
4/0 AWG	242 feet
5/0 AWG	283 feet

Instantaneous Current 230 A



Maximum copper wire size, circuit breaker (CB) to equipment: #2 AWG, maximum 50' in length, (Customer/contractor provided).

*The ground conductor for the power feeder shall be the same size as the phase conductor wires.

**Residual current device to be installed depending on local regulations.

CB

(20.0)

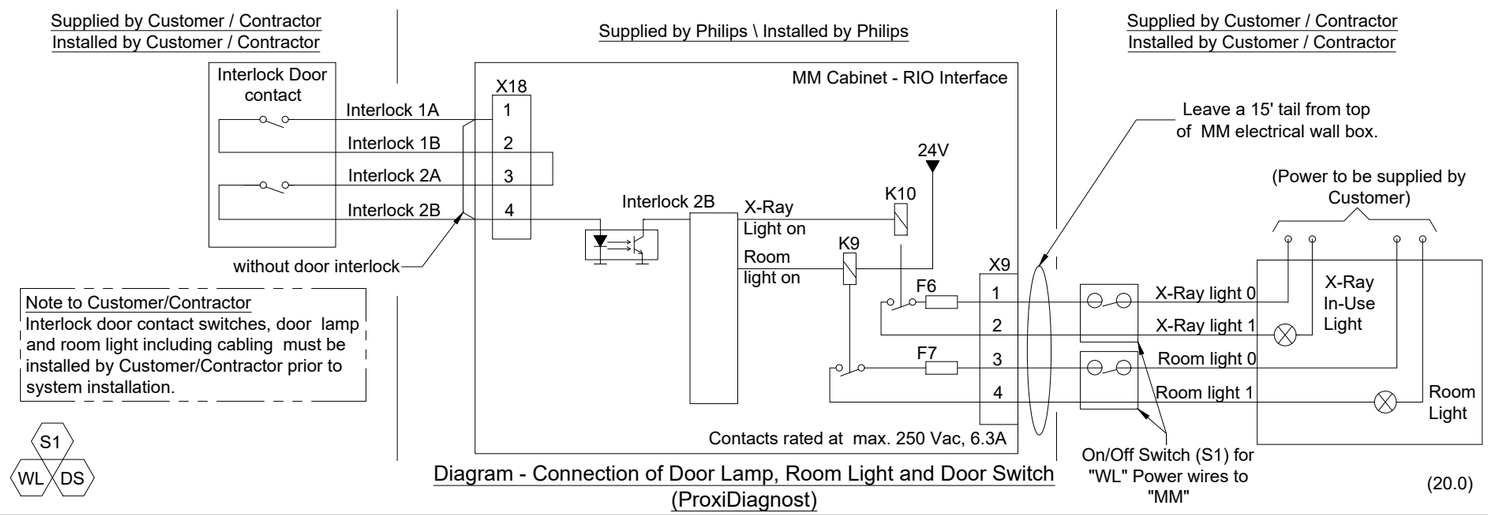


Diagram - Connection of Door Lamp, Room Light and Door Switch (ProxiDiagnost)

(20.0)

PHILIPS

Project
ProxiDiagnost N90 R1.1
US VETERANS ADMINISTRATION
MEDICAL CENTER
Boston, MA
Room: 3

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ED1

3.17.2023

Philips Healthcare Remote Services Network (RSN)

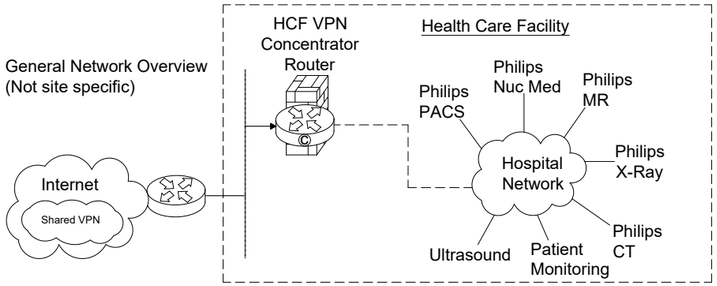
Secure broadband connection required for Philips remote technical support, diagnostics, and applications assistance

Broadband Site-to-Site Connectivity (Preferred)

This connectivity method is designed for customers who prefer a connection from the RSN Data Center to the Health Care Facility (HCF) utilizing their existing VPN equipment.

Connectivity Details:

- A Site-to-Site connection from the RSN data center's Cisco router will be established to the HCF's VPN concentrator.
- The VPN Tunnel will be an IPSEC, 3DES encrypted Tunnel using IKE as standard, but alternative standards are also available, such as AES, MD5, SHA, Security Association lifetime and Encryption Mode.
- Every system that we will be servicing remotely will have a static NAT IP that we configure on the RSN Data center side.



Action Required by Hospital:

- Review and approve connection details.
- Complete appropriate Site Checklist.
- Configure and allow Site-to-Site access prior to setting up connectivity depending on the access criteria that the HCF decides to implement (ex: Source IP filtering, destination IP filtering, NAT assignment, etc.).
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to the designed IP provided by Philips.

Broadband Router Installed at Health Care Facility

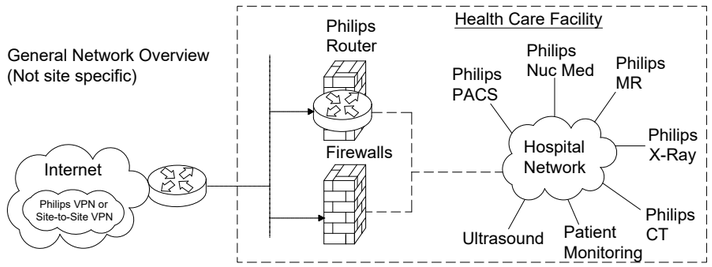
This connectivity method is designed for customers who have a dedicated high speed connection for Philips equipment.

Connectivity Details:

- An RSN Cisco 1711 or 1712 router will be preconfigured and installed at the HCF by Philips in conjunction with the HCF IT representative.
- The VPN Tunnel will be an IPSEC, 3DES encrypted Tunnel using IKE and will be established from the RSN-DC and terminated at the RSN Router on-site.
- One to One NAT is used to limit access to Philips equipment only.
- Router Config and IP auditing is enabled for Customer IT to view via website 24/7.
- Dedicated DSL connections are also supported.

Option 1: Parallel to HCF Firewall Connectivity Method

This connectivity method is designed for customers who prefer a Philips RSN Router installed on site utilizing all the security features provided and managed by Philips.

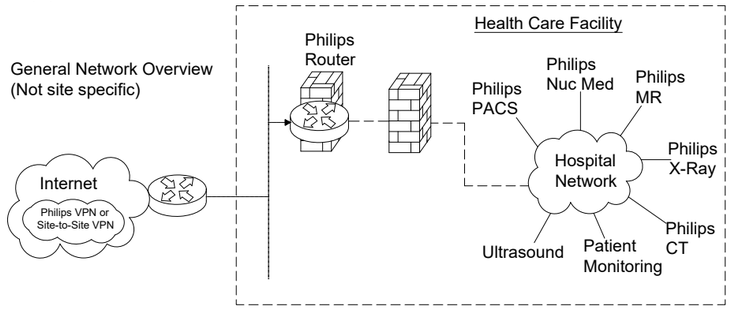


Action Required by Hospital:

- Assign a fixed public IP Address from the ISP to be configured on the Philips router. This is the DOTTED link on the picture connected to the firewall.
- Assign a Back end IP for the Philips router on the Hospital Network.
- Complete appropriate Site Checklist.
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to internal Philips router Ethernet interface. This is the DASHED line connected to the firewall.

Option 2: Back End Connected to the HCF Firewall Connectivity Method

This connectivity method is designed for customers who prefer a Philips RSN Router installed on site by setting up an IP-Based policy allowing access thru existing HCF Firewall to Philips equipment.

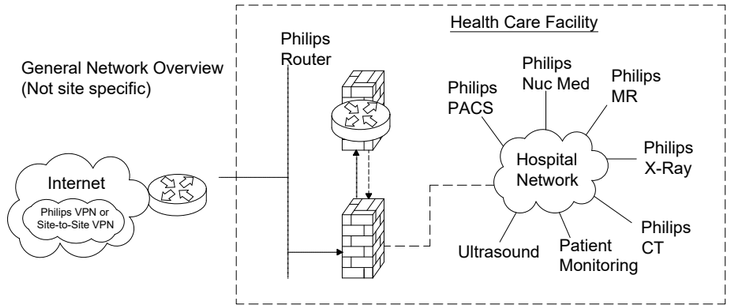


Action Required by Hospital:

- Assign a fixed public IP Address from the ISP to be configured on the Philips router. This is the DOTTED link on the picture connected to the firewall.
- Assign a Back end IP for the Philips router on the Hospital Network.
- Complete appropriate Site Checklist.
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to internal Philips router Ethernet interface. This is the DASHED line connected to the firewall.
- Configure and allow on the firewall on the DASHED line interface access between the IP address allocated by the hospital to the Philips internal Ethernet router interface and the target modality IP address.

Option 3: Router Installed Inside the HCF's DZM

This connectivity method is designed for customers who prefer the RSN Router installed inside an existing or new DMZ, allowing access to Philips equipment.



Action Required by Hospital:

- Assign a fixed public IP Address from the ISP to be configured on the Philips router. This is the DOTTED link on the picture connected to the firewall.
- Assign a Back end IP for the Philips router on the Hospital Network.
- Complete appropriate Site Checklist.
- Route traffic from within the hospital network with destination addresses 192.68.48.0/22 to internal Philips router Ethernet interface. This is the DASHED line IPSec protocol communication by opening protocol 500, 50, 51, 47 and port 23 + TACACS. Traffic should be between external IP Address located on the Philips router and the RSN Data center IP address 192.68.48/24 and IP address AOSN TACAS.
- Configure and allow on the firewall on the DASHED line interface access between the IP address allocated by the hospital to the Philips internal Ethernet router interface and the target modality IP address.

Network Questionnaire and Customer Network Information Sheet

This information must be available at the moment of system configuration.
Please fill in the appropriate boxes in advance before the system will be delivered.
If a section has a check in brackets, your facility has this licensed option or hardware option and information will be needed.

Header colors indicate the following:
Blue = must be filled in completely
Yellow = Licensed options
White = redundancy or special DICOM option

Highlighted fields have to be filled in by hospital IT

Customer Information	
Hospital name	
IT contact & phone #	
Email address	
X-Ray manager & phone #	
Email address	
Other contact name & phone #	
Email address	

Philips Information (filled in by FSE)	
Project manager & phone #	
Email address	
Service engineer & phone #	
Email address	

Philips X-ray Equipment (filled in by FSE)	
System type	
Site ID or site number	
Eleva software version	
MAC address	
MAC address (WiFi)*	
System SN	
Generator (X-ray control) SN	
Install date	
Room number	
Wall port number	
Sales order #	
FDA 2579 form # **	

* Only in case of MobileDiagnost wDR
** Only for FDA controlled countries

Wired Network Settings	
TCP/IP settings	
Host name (System)	
Use DHCP*	☐ yes ☐ no
IP address	
Subnet mask (only if not DHCP)	
Default gateway (only if not DHCP)	

Network Settings (Wireless Portable Detector & WiFi Access Point)	
Access point information	
Wireless Standard	☐ IEEE 802.11a (5 Ghz) preferred ☐ IEEE 802.11b/g (2.4 Ghz) ☐ IEEE 802.11n ☐ 2.4 GHz ☐ 5GHz ☐ 2.4 GHz/5GHz
Channel	
Ask the local wireless-network-IT administrator (responsible person) to assign a channel according to local wireless network needs. Each access point needs its own exclusive channel. Make sure that two access points, which operate in the same wireless range, use different channels (for example two systems, which operate in neighboring rooms).	

* If DHCP is used, no IP Address, Subnet mask and default gateway is needed

PHILIPS

Project
ProxiDiagnost N90 R1.1
US VETERANS ADMINISTRATION
MEDICAL CENTER
Boston, MA
Room: 3

Philips Contacts
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Drawn By: Minsey Lee

Project Details
Drawing Number
N-EAS240108 C
Date Drawn: 1/31/2025
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N1

Wireless Network Settings (MobileDiagnost wDR Only)	
Access point information	
SSID (access point hospital)	
Security standard	☐ WEP ☐ WPA WPA2
Encryption type	☐ TKIP (RC4) ☐ CCMP (AES) ☐ no encryption
Supported Authentication	☐ PSK ☐ IEEE 802.1x
PSK settings	
Pre Shared Key (WPA/WPA2: min. 8 and max. 63 printable ASCII characters)	(don't type a password here but provide it at the time of installation)
802.1x settings	
Method EAP Protocol	☐ PEAP ☐ EAP-TLS
Client certificate	Provide client certificate (including private key) with entire certificate path at the time of installation. Supported file formats:*.cer *.pfx
Server certificate validation	☐ yes ☐ no
TCP/IP settings	
Use DHCP*	☐ yes ☐ no
IP address	
Subnet mask	
Default gateway	

DICOM Settings (System)	
Name	
AE title	
Port number	
Allow incoming queries	☐ yes ☐ no

PACS - DICOM Store (Export)	
Name	
AE title	
Port number	
IP host name	
IP address	
IS archive	☐ yes ☐ no

PACS - DICOM Store (Backup)	
Name	
AE title	
Port number	
IP host name	
IP address	
IS archive	☐ yes ☐ no

PACS - Query Retrieve	
Name	
AE title	
Port number	
IP host name	
IP address	

RIS Node - DICOM (BWLM)	
Name	
AE title	
Port number	
IP host name	
IP address	

MPPS RIS - DICOM ☐	
Name	
AE title	
Port number	
IP host name	
IP address	

DICOM Default (For All DICOM Nodes)	
Default AE title (must be one of the already defined AE titles)	

Audit Trail Server ☐	
UDP/TCP protocol	
IP host name	
IP address	
Port number	
Format of audit trail	☐ ATNA ☐ Basic security

NTP Time Server ☐	
IP host name	
IP address	
Port number	

Printer I - DICOM Print ☐	
Manufacturer name & type	
Used template	
Printer location	
Name	
AE title	
Port number	
IP host name	
IP address	

Printer Medium: Film Type, Size, Bits

Printer II - DICOM Print (Backup) ☐	
Manufacturer name & type	
Used template	
Printer location	
Name	
AE title	
Port number	
IP host name	
IP address	

Printer Medium: Film Type, Size, Bits

Printer III - DICOM Print (Backup) ☐	
Manufacturer name & type	
Used template	
Printer location	
Name	
AE title	
Port number	
IP host name	
IP address	

Printer Medium: Film Type, Size, Bits

Service Tool: FSF.net (Increment 34+36)

Philips Service Agent (PSA)	
Philips environment	☐ iSSL Enabled ☐ iSSL Enabled with Log Upload ☐ VPN Enabled ☐ VPN Enabled with Log Upload (port 443 outbound shall be open)
Proxy server address	:
Proxy user name	
Proxy password	(don't type a password here but provide it at the time of installation)
Remote Service Gateway	
Network	
Subnet mask	
Gateway	

Service Tool: PSC (Increment 37 and higher)

Remote Connection Tool (RCT)	
Connection type	☐ Internet ☐ VPN (port 443 outbound shall be open)
PRS server	☐ Production
Poll interval	☐ Small – 100 seconds ☐ Medium – 200 seconds ☐ Large – 300 seconds
Configure NAT ☐	
PRS Server NAT Address	
Tunnel Server NAT Address	
PRS Server NAT Port	
Tunnel Server NAT Port	
Remote Service Gateway	
Network	
Subnet mask	
Gateway	

mShield (Network Firewall) ☐	

The following boxes are for any other options necessary or any back up information needed.
For example you want to send images to View Forum, or a Research PACS set up.

IP host name	
IP address	
AE title	
Port number	

IP host name	
IP address	
AE title	
Port number	

PHILIPS

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N2

Instructions

This form is to be used by Project Manager, Contractor, and Service Engineer. Information is used to develop and determine site ready date.

Be sure to contact the Zone Installation Specialist (ZIS), Field Service Engineer (FSE), or National Support Specialist (NSS) if you have questions concerning any of these checklist items.

Site Readiness Checklist

Required Prior to Delivery

- ☐ **Cable Trough/Raceway/Conduit:** Installed, cleaned and locations checked per Philips Final Drawings. Duct covers in place. Cable openings are clear, without sharp edges. ***Greenlee*** pull strings/measuring tape, (Part # 435, or equivalent), are in place.
- ☐ **Ceiling (Hard):** Installed and painted.
- ☐ **Ceiling (Drop-In):** Installed.
- ☐ **Customer Site Preparation:** Verified per Philips Final Drawings.
- ☐ **Delivery Path and Truck Parking:** Has been checked with the customer and lead FSE including verifying floor loading, delivery route, elevator capacity, height, width and depth clearances, and a plan for bad weather.
- ☐ **Doors:** Installed.
- ☐ **Drawings (Final):** Shows all room obstacles to include millwork, lighting overlay, structure overlay, med gases and plumbing.
- ☐ **Flooring:** Installed and covered with protective covering (i.e. scratch protection).
- ☐ **Glass:** Installed.
- ☐ **HVAC (Climate Equipment):** Installed and operational. Humidity and temperature requirements per Philips Final Drawings.
- ☐ **Installation Team:** Has received the room drawings and necessary contact phone numbers.
- ☐ **Millwork:** Completely installed in all rooms.
- ☐ **Parking:** Parking area identified for installers.
- ☐ **Permits and Inspections:** Completed by applicable governing authorities. Method statement available and safety meetings attended (OSHPD, AHCA).
- ☐ **Philips Project Space:** Is clean, free of dust, all construction-related debris and tools have been removed.
- ☐ **Restroom Facilities**: Toilet facilities, including area to wash up, are available.
- ☐ **Room Lighting:** Installed and operational.
- ☐ **Room Security:** Room is secure, with keys and alarm codes provided.
- ☐ **Site Access:** Is available for after hours. Storage for tools, parts, covers and packing material has been arranged.
- ☐ **Site Is Safe To Work:** PPE requirements identified (Construction and Hospital). No open Mains, slippery floors, sharp edges, or hazardous goods on site.
- ☐ **Sprinklers:** Installed.
- ☐ **Transport & Handling Tools:** Crane, forklift, wheels and trolleys have been specified with the LMP/rigging company. NOTE: If rigging provided by Philips, verify the vendor is on the Philips' Approved Suppliers List.
- ☐ **Walls:** Installed and final finished, (i.e. final coat painted and/or tiled).
- ☐ **Existing Equipment:** Is dismantled and removed from the site.
- ☐ **Floor Levelness:** Checked with Laser Level and is level per Philips Final Drawings.
- ☐ **System Orientation:** Verified per Philips Final Drawings.
- ☐ **Table Isocenter:** Verified per Philips Final Drawings.
- ☐ **Mains Power Supply:** Installed per Philips Final Drawings. (Including impedance, isolated grounds, wire size verified, and distribution unit has been installed).
- ☐ **UPS:** Fully installed per Philips Final Drawings, and startup has been scheduled with vendor.
- ☐ **Back Boxes:** Installed with required covers and grommet material per Philips Final Drawings, (i.e. spacing between boxes and height off finished floor).
- ☐ **Ceiling Height:** Verified per Philips Final Drawings
- ☐ **Ceiling Obstructions:** Verify there are no obstructions where Philips rails will be installed
- ☐ **Ceiling Rails:** Pre-delivered and installed (if applicable).
- ☐ **Clearances:** Verified to the closest obstacles, (i.e. walls, cabinets, etc.) in order to lift of the CS, monitor support, etc.
- ☐ **Fixing Blocks:** Provided by Philips, verify the block properly seats in the Unistrut channel with no obstructions, as designed.
- ☐ **Floor Plates (If applicable):** Patient Support and Stand, are installed, isolated, and leveld, at the correct positions per Philips Final Drawings.
- ☐ **Pre-Term Wire Kit:** Philips pre-cabling has been delivered and installed.
- ☐ **Unistrut (P1001 or equal):** Installed and leveled per Philips Final Drawings.
- ☐ **Wall Backing:** Verify it is in place per Philips Final Drawings..

Required Prior to Philips System Power Up

- ☐ **Wall Outlets:** Installed and functional.
- ☐ **Door Interlock Switch:** If required, is installed per Philips Final Drawings.
- ☐ **X-Ray in Use or Warning Light:** If required, is installed per Philips Final Drawings.
- ☐ **Physicist:** If required, verify the Physicist has been scheduled.
- ☐ **Network Connections:** Hardware is installed and active per Philips Final Drawings. All network information provided by facility IT, i.e. IP addresses (static IPs only), AE Titles, SNM, GTWY and DNS server are available.
- ☐ **UPS:** Commissioned and certified by UPS vendor.

Approved for Delivery

Project Manager	Date
Service Engineer	Date

PHILIPS

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CHK