

APPENDIX 3F
IMIT EQUIPMENT LIST

Please see attached.

1.1 Intent

1.1.1 The Intent of this appendix is to:

1.1.1.1 Describe IM/IT Equipment categories; and

1.1.1.2 Define the responsibilities between Project Co and the Authority as it relates to IM/IT Equipment.

1.1.2 This appendix does not include IM/IT Equipment requirements and responsibilities related to Multimedia Systems, Public Address, Intercommunications, Nurse Call, Distributed Antenna System, Cable TV, Locating Services and IM/IT Networks. For requirements relating to these systems and networks, refer to the Communications (Division 27) Section of Schedule 3 [Statement of Requirements].

1.2 Definitions specific to this appendix:

1.2.1 “Blocks” means an entire floor level of the Facility that the Design-BUILDER makes available for the Authority to Install IM/IT Equipment. Project Co section 1.6 for the complete requirements pertaining to Blocks including splitting floors into multiple Blocks, and “Block” has a corresponding meaning;

1.2.2 “Category 7 refers to section 1.10;

1.2.3 “Category 8 refers to section 1.11;

1.2.4 “Deliver” means to ensure the IM/IT Equipment is sent to and arrives at the Facility, and is received and stored by the Authority in the Storage Room. “Delivery” and “Delivered” have corresponding meanings;

1.2.5 “Equipment” means collectively, the Category 7 and Category 8;

1.2.6 “Equipment List” refers to a list of Category 7 and Category 8 IM/IT Equipment set out in this appendix. The Equipment List is indicative and subject to change;

1.2.7 “IM/IT Equipment Committee” refers to section 1.5;

1.2.8 “IM/IT Equipment Logistics Plan” means the intended schedule for Procurement, Delivery, Installation and Setup as updated in accordance with section 1.6;

1.2.9 “Install” means to install in the Facility, including making connections to necessary building services (including plumbing, heating, cooling, ventilation, electricity including support structures, backing, seismic restraints, or other infrastructure required by or supplied by the equipment vendor) and connections to necessary communication or network interfaces or devices, and “Installed” and “Installation” have corresponding meanings;

1.2.10 “Procurement” means the selection and purchase of Category 7 and Category 8 IM/IT Equipment, and “Procure” and “Procured” has a corresponding meaning;

1.2.11 “Setup” includes:

1.2.11.1 Transportation and movement of IM/IT Equipment within the Facility to and from the Storage Room or a location in the Existing Hospital to the final IM/IT Equipment location. This includes the use of mechanical handling aids such as pallets jacks, hand trucks and carts to safely move such IM/IT Equipment; and

1.2.11.2 Placement in the final location within the Facility and unwrapping, unpacking, labelling, assembly, tagging or other requirements, including the correct disposal of all dunnage, packing or other waste materials;

1.2.12 “Storage Room” means:

1.2.12.1 A space in the Facility provided to the Authority six (6) months prior to first Building Substantial Completion that is:

1.2.12.1.1 A minimum size of 40 m² that is physically separate and solely dedicated for the storage of IM/IT Equipment. The entrance to the Storage Room will be wide enough to move a standard sized pallet through the doorway;

1.2.12.1.2 Secured by a punch code lock and security alarm system;

1.2.12.1.3 Clean and environmentally suitable for people to work in (lighting, power, temperature and humidity control) and meets manufacturers’ standards for the storage of IM/IT Equipment;

1.2.12.1.4 Accessible any time of the day to the Authority to Deliver IM/IT Equipment;

1.2.12.1.5 Located such that there is convenient external access for Delivery without utilizing any ramps or stairs; and

1.2.12.1.6 Located on the same floor and in close proximity to operational elevators that can access all levels for the purpose of Setup in the Facility during Construction.

1.2.12.2 The design, construction and function of the Storage Room is to store IM/IT Equipment securely without risk of damage and theft while awaiting Setup and to enable Authority representatives to Receive, unpack and prepare IM/IT Equipment for Setup.

1.3 No Limitation

1.3.1 The Equipment List is not intended to be exhaustive or be an indication of the minimum IM/IT Equipment required for the Facility. It is not intended to be relied upon by Design-Builder, does not limit the requirements for Design and Construction, and provides only an indicative representation of the IM/IT Equipment that the Authority may deploy. The Authority may modify the Equipment List at any time, in its sole discretion throughout the duration of the Project.

1.4 General

1.4.1 In order to take advantage of the most recent technological advances, final decisions on the selection of IM/IT Equipment sensitive to or anticipated to be revised with newer technology prior to the Substantial Completion, together with any training or service requirements, will not be made by the Authority until as late as possible in the period for Construction;

1.4.2 Physical Integration of IM/IT Equipment with Design of Facility:

1.4.2.1 The Facility will include space, communications infrastructure, wall backing, cable management, power and Telecommunications Outlets (TOs) with sufficient Data Drops for all IM/IT Equipment; and

- 1.4.2.2 The Design of the Facility will accommodate changes to IM/IT Equipment requirements that are identified throughout the duration of the Project.

1.5 IM/IT Equipment Committee

- 1.5.1 The Design-Builder will establish an IM/IT Equipment Committee composed of at least two (or any other number agreed between the parties) representatives of each party no later than eleven (11) months after the Effective Date;
- 1.5.2 The parties will ensure at least one representative from each party from the IM/IT Equipment Committee are members of the IM/IT committee (refer to Section 7.10.4.7) in Schedule 3 [Statement of Requirements]); and
- 1.5.3 The IM/IT Equipment Committee will meet regularly (not less than once per month) to review the status of, and to coordinate all parties as it relates to the Procurement, Delivery, Setup and Installation of IM/IT Equipment.

1.6 IM/IT Equipment Logistics Plan

- 1.6.1 The Design-Builder will provide a draft schedule of IM/IT Equipment related events in collaboration with the Authority within twelve (12) months after the Effective Date;
- 1.6.2 The Design-Builder will make available Blocks in the Facility to the Authority as per the schedule and all conditions in this appendix;
- 1.6.3 The Authority will Setup Category 7 IM/IT Equipment by Blocks;
- 1.6.4 The Design-Builder will provide and maintain the schedule until Substantial Completion and meet the following requirements, unless changes to the requirements are agreed to by the Authority:
 - 1.6.4.1 Identify Blocks in the Facility available for the Authority to Setup IM/IT Equipment;
 - 1.6.4.2 Provide no less than twelve (12) Blocks in total and not more than twenty-four (24) Blocks in total;
 - 1.6.4.3 The start date of the first Block is not less than five (5) months prior to Substantial Completion;
 - 1.6.4.4 Provide Blocks that are equal in duration, equally spaced, and equally staggered. When staggering Blocks, the overlap of a Block with its predecessor Block cannot exceed three (3) Business Days;
 - 1.6.4.5 The number of concurrent Blocks at any time on the schedule cannot exceed two (2) Blocks; and
 - 1.6.4.6 Incorporate Authority Setup duration requirements per Block into the schedule. When a Block is for an entire floor, the duration is ten (10) Business Days. When an entire floor is made up of more than one (1) Block, the total duration for all the Blocks for the entire floor is ten (10) Business Days.
- 1.6.5 The Design-Builder will reflect in the IM/IT Equipment Logistics Plan other predecessors to complete IM/IT Setup. Indicative predecessors of IM/IT Equipment include but not limited to:
 - 1.6.5.1 Purchase and Installation of Category 8 IM/IT Equipment;
 - 1.6.5.2 Telecommunications Outlet (TOs) quantities in list format and with drawing drop identifications seven to eight (7 - 8) months ahead of Authority Setup;

- 1.6.5.3 Storage Room for Category 7 IM/IT Equipment made available; and
 - 1.6.5.4 Spaces are clean, dust free, walls are painted, flooring and ceilings are finished, furnishings completed, desktop grommets completed, and active data and power provided.
 - 1.6.6 The Design-Builder will reflect in the IM/IT Equipment Logistics Plan other successors to complete IM/IT Setup. Indicative successors of IM/IT Equipment include but not limited to Authority IM/IT Equipment configuration, unit testing and system testing;
 - 1.6.7 After the draft IM/IT Equipment Logistics Plan has been agreed to by both parties:
 - 1.6.7.1 As required from time to time and until Substantial Completion of the Facility, but no less than once per calendar month, the Design-Builder will update and make available the IM/IT Equipment Logistic Plan so that at all times it is an accurate, reasonable and a realistic representation of the Design-Builder's plans for the completion of the Design and Construction of the Facility. The IM/IT Equipment Logistics Plan will be reviewed as a regular agenda item during the monthly IM/IT Equipment Committee.
 - 1.6.8 The Authority will Deliver IM/IT Equipment to install in the Facility by the dates specified by the Design-Builder under section 1.6 IM/IT Equipment Logistic Plan.
- 1.7 Staging and Storage:**
- 1.7.1 The Design-Builder will:
 - 1.7.1.1.1 Provide a Storage Room;
 - 1.7.1.1.2 Provide 24/7 protection of the Storage Room and its contents against theft, fire, flood, smoke or any other condition that would put IM/IT Equipment at risk;
 - 1.7.1.1.3 Provide a procedure to access the Site and move IM/IT Equipment;
 - 1.7.1.1.4 Allow Authority representatives to access and work within the Storage Room any time of day; and
 - 1.7.1.1.5 Notify the Authority, in advance (no less than 24 hours), of any power interruptions to the Storage Room.
 - 1.7.1.2 The Design-Builder will provide the Storage Room to the Authority, with all the requirements available and without interruptions, six (6) months prior to Substantial Completion and until IM/IT Equipment is Setup in its final location in the Facility. If at any time the Design-Builder is unable to provide this Storage Room, in this period, and the Authority is unable to fully utilize the Storage Room, the Design-Builder will, at its cost, provide an alternative Storage Room location and move all stored IM/IT Equipment situated in the Storage Room at the time of its relocation; and
 - 1.7.1.3 The Design-Builder will provide and manage appropriate disposal containers easily accessible from the Storage Room of a size sufficient to accommodate waste generated from the Setup of IM/IT Equipment and empty the containers as required to avoid any backlog of the waste material.
- 1.8 Storage Costs:**
- 1.8.1 Any IM/IT Equipment storage costs incurred by the Authority as a result of the Storage Room not being available on or after the date agreed to by the Authority in the IM/IT Equipment Logistics Plan will be borne by the Design-Builder; and

1.8.2 Damage and loss to IM/IT Equipment in the Facility prior to Substantial Completion is the responsibility of the Design-Builder.

1.9 Access to move IM/IT Equipment:

1.9.1 The Design-Builder will:

- 1.9.1.1 Cause the Facility to enable the Authority access to and from the Storage Room and final IM/IT Equipment Setup location;
- 1.9.1.2 Provide access from a common corridor or hallway that connects to an elevator;
- 1.9.1.3 Provide lock off mechanisms in elevators to allow time for equipment ingress and egress;
- 1.9.1.4 Provide access path which includes all road ways, entrances, corridors, doorways openings and elevators from the Facility loading dock;
- 1.9.1.5 Provide access that is well lit;
- 1.9.1.6 Provide access that is unobstructed; and
- 1.9.1.7 Cause the safe moving of IM/IT Equipment on a standard pallet or equipment cart.

1.10 Category 7 IM/IT Equipment

1.10.1 The Authority will Procure, Deliver, and Setup all Category 7 IM/IT Equipment;

1.10.2 The Authority will require the availability of the Storage Room to store Category 7 IM/IT Equipment; and

1.10.3 Setup of the Category 7 IM/IT Equipment will not commence until all the following conditions are met:

- 1.10.3.1 Systems Furniture, Millwork, and all other types of furniture (with all associated cable management) is installed and cleaned;
- 1.10.3.2 Related Category 8 IM/IT Equipment is Installed;
- 1.10.3.3 Permanent power is provided at the IM/IT Equipment location in accordance with the requirements in this Agreement;
- 1.10.3.4 Structured Cabling and Telecommunications Outlet (TOs) that will be used by the IM/IT Equipment is terminated, tested and labelled. Refer to the Communications (Division 27) Section of Schedule 3 [Statement of Requirements] for further details;
- 1.10.3.5 The Communications Room associated with the work area where the IM/IT Equipment resides is considered IM/IT Equipment ready. Refer to the Communications (Division 27) Section of Schedule 3 [Statement of Requirements] for further details; and
- 1.10.3.6 IM/IT Data and Voice Network is fully commissioned.

APPENDIX 3F – EQUIPMENT LIST – IM/IT

1.10.4 Indicative Equipment List of Category 7 IM/IT Equipment:

General Item	General item description	Quantity	Sample Make/Model
Workstation	Workstation Computer may consist of a Tiny-In-One (TIO), PC, Thin Client, Laptop with Docking Station. All workstations come with a Monitor and/or dual Monitor. Estimated quantity is 10% Laptops, 15% Dual Monitors, 25 to 30% on Wall mounts and/or Carts.	731	Workstations Lenova make/models: - Tiny-In-One (TIO) Model:1-QYPAR1, Monitor 23.8 - PC- ThinkCenter M910q, LT22v Monitor - Think Client -ThinkCentre M625q, T22" Monitor - Laptop: ThinkPad T480s - WOW Cart GCX VHRC Series model or Medical Device Cart - Product Omnicell # 82732-652290 or equivalent
Phones	Standard desk, Reception, Conference Phone and Wall mount phones	576	- Desk phone Cisco 7841 - Reception Phone Cisco 8851 - Conference Lync Edition RealPresence Trio 8800 - Wall mounted SL Phone Cisco 6901
Printers	Printers, Multi-functional Desktop and Floor Models. Dimensions may vary based on functionality. Estimated quantity for a Floor model quantity is 10%	63	Desktop Model: - HP LaserJet M631h, Dimensions W x D x H (in) 40 x 31 x 40 Floor Models: - HP LaserJet M725z (b/w) Dimensions W x D x H (in) 37 x 41 x 47; - HP LaserJet M775z (color) Dimensions W x D x H (in) 40 x 46 x 61
Label Printers	Datamax label printers	53	- Datamax I-Class Printer - Datamax E-Class Printer
Display Monitors	Workflow Displays Monitors, size to be determined Wall or Ceiling mounted. Wall backing is required.	28	Digital Display Monitors, Size to be determined but to be no less than 65 inches

1.11 Category 8 IM/IT Equipment

1.11.1 The Authority will Procure and Deliver the Category 8 IM/IT Equipment;

1.11.2 The Design-BUILDER will Install the Category 8 IM/IT Equipment; and

1.11.3 Indicative Equipment List of Category 8 IM/IT Equipment:

General item description	Further item description	Quantity	Sample Make/Model
Wall and/or Ceiling mounts for Displays	Install Wall mounts for Security and Workflow. Backing is required. Types of Monitors to be determined but will not be less than 65 inches to be determined	28	Type of Wall mount brackets TBD
Workstation Wall Mounts	Install Wall mounts for Workstations. All devices to have a device, monitor, mouse and keyboard. Backing is required. Estimated quantity is 15% of the total Workstations	100	- Open Wall mount Sample - GCX - VHM-P - Closed Wall mount Sample - Ergotron - eNook® Pro, Wall Desk Workstation - Wall mount brackets for T22" Lenovo Monitor
Telephone Wall mounts	Small Wall mount bracket for a single line Phone. Estimated quantity is 3% of the total phones	16	Wall mount bracket for a Cisco 6901