



**Grossing Factors & Net Areas  
Guidelines  
For Healthcare Facilities in Alberta**

**July, 2016**



# Acknowledgements

This document was developed by Agnew Peckham Health Care Consultants and DIALOG for Alberta Infrastructure. The document reflects the collaboration between Agnew Peckham, DIALOG, Alberta Health, Alberta Health Services, and Alberta Infrastructure. The project and information included in this document was directed by Alberta Infrastructure, and is based on the approval and direction of all three organizations.

Special acknowledgement goes to Project Leads Bev Knudtson of Alberta Health Services and Marie Fontaine of Alberta Infrastructure for seeing this complex project through over several years.

The Steering Committee would also like to acknowledge the participation of Alberta Health Services clinical staff that provided valuable feedback to the Net Area study. The clinical review groups were:

- Ambulatory Care
- Coronary Care & Cardiology
- Critical Care (NICU, PICU)
- Diagnostic Imaging
- Emergency Department
- Infection Prevention & Control (IP&C)
- Inpatient Units
- Labour & Delivery
- Mental Health
- Rehabilitation
- Surgical Suite & PARR
- Workplace Health & Safety

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## Disclaimer

Please note that these net areas and grossing factors are provided as recommended guidelines only. It is expected that individual projects will adjust the room areas to suit specific project needs.

Concept drawings provided as part of the Net Areas Room Data Sheets are for illustrative purposes only. They are test-fit options for reference and are not meant to be the only prescribed way of fitting out specific rooms

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• Surgical Suite		
– H-01	Operating Room, General	207
– H-02	Operating Room, Special	211
• Rehabilitation Medicine		
– I-01	Private Bed Room, Rehab, Isolation	217
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• Mental Health and Addictions		
– J-01	Private Bed Room, Mental Health, Isolation	229
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– J-03	Semi Private Bed Room, Mental Health Diagnostic Imaging	237
• Diagnostic Imagine		
– K-01	General Radiography	241
– K-02	Fluoroscopy Room	245
– K-03	CT Scanner	249
– K-04	Mammography Room	255
– K-05	MRI	259
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# **HOW TO USE THIS GUIDELINE**

## **I. Purpose**

The purpose of this guideline is to provide “best practice” information for all stakeholders and participants in the planning, design, and evaluation of healthcare facilities in the Province of Alberta.

## **II. Context**

The baseline numbers provided in this guideline are the result of an extensive, three years, international study (2008-2011) conducted by health facility planning consultant Agnew Peckham and architectural consultant Dialog with close and active support from Alberta Health (Health), Alberta Health Services (AHS), and Alberta Infrastructure (INFRA).

The benchmarking of grossing factors in the original study were done by Steve Bagworth of Andrew Peckham as part of a collaboration with Texas A&M University (TAMU) as part of their ongoing research in healthcare architecture.

TAMU had already spent a number of years gathering metrics from numerous recently constructed healthcare facilities across Canada, United States, Australia, United Kingdom, Germany and the Middle East. Agreements between TAMU and the project team allowed the sharing and exchange of data between both parties giving the project team access to metrics that they normally would not have. As such the recommendations provided in this publication is a true, international, balanced benchmarking.

Furthermore, specific criteria were deployed in the selection of relevant, participating facilities from the various countries as part of a rigorous effort in developing objectives and methodologies for this study. For example, all of the facilities benchmarked were built within the past five years from the time of the original study so the results are truly representative of leading trends in the development of healthcare facilities in the developed world.

Once the preliminary survey and benchmarking were complete, extensive reviews of the recommendations by AHS were conducted through a series of provincial review workshops attended by key AHS staff from across the province. Additional comments and feedback from AHS Infection Prevention and Control(IP&C) staff and the Workplace Health and Safety representatives were also incorporated into the drawings and templates used in this study.

As a result, the recommended room type net areas and grossing factors contained in this guideline are not merely simple numerical averages from the surveyed facilities. Rather, the recommendations contained in this guideline have been thoroughly vetted by AHS to ensure that they are relevant and applicable to the specific healthcare needs of Albertans for the present and the future.

Lastly, it was the hope of the project team that the recommendations in this guideline will be updated and revised on a regular basis to support effective, safe, innovative and sustainable healthcare infrastructure in the province of Alberta.

Additional details on the original study are provided in Section C of this publication.

### III. Net Areas and Grossing Factors

Section A of this publication contains three sets of critical numbers. The first set is recommended Net Areas for 65 specific room types in healthcare facilities. The second set is Departmental Grossing Factors used to determine departmental layouts and area calculations. The third set is Building Grossing Factors to guide the design and layout of entire healthcare buildings.

The room type Net Areas listed in this publication are meant to serve as recommended starting points in developing concept departmental and building design in accordance with the functional programs for specific healthcare facilities. These areas are not meant as absolute limits on maximum or minimum room sizes. Design teams are allowed to deviate from the recommended areas based on the particular needs of individual healthcare facilities.

The Departmental Grossing Factors and Building Grossing Factors are provided so that design teams can quickly determine overall departmental sizes and overall building areas based on a functional program for planning and costing purposes. Again, both sets of numbers are recommended best practice and are not meant as hard limits. It is expected that each design team will arrive at their final departmental and building sizes through detailed design based on the specific functional programming for each facility. Grossing Factors can also be used to check if the total planned circulation space is within the recommended ranges.

Section B of this publication contains the Net Area Room Data Sheets (RDS) for each of the 65 room types listing planning assumptions, equipment and services provided, and basic design considerations.

Each room type Net Area template also contains a generic floor plan showing the potential layout of all the equipment and services provided in the room. The final layouts of each room will be based on the particular needs of individual healthcare facilities.

### IV. Glossary & Definitions

The following definitions were used in relation to the Net Area Room Guidelines.

*Table 1: Definitions*

<b>Ambulatory Care</b>	A mode of delivering health care services on a same-day basis, not requiring overnight hospitalization.
<b>Building Gross Area</b>	The total area required for the building; including net room areas, departmental circulation, building circulation, mechanical and electrical space and exterior walls.
<b>Building Grossing Factors</b>	Assists in determining the appropriate gross-up from departmental gross area to building gross area
<b>Clinical Diagnostic</b>	Primary purpose of room is for clinical diagnostics, with diagnostics equipment and supplies in room where required
<b>Decentralized</b>	Dispersing frequently accessed functions throughout a unit in order to reduce the amount of time and travel required by staff. Decentralization can include but is not limited to nurse stations, charting, storage, or medication dispensing. The functions are typically dispersed in close proximity to the point of care and are meant to increase the amount of time the care giver is accessible to the patient.

<b>Department Area</b>	Total floor area within the boundaries of a department; includes net room areas, the partitions separating the rooms and circulation within the department.
<b>Department Grossing Factors</b>	Assists in determining the gross-up from net area to departmental gross area.
<b>Grossing Factors</b>	Grossing factors apply a percentage of additional space required to address horizontal and vertical circulation, partitions, mechanical, electrical & IT services, and external walls.
<b>Handwashing Station</b>	Includes sink, soap dispenser, lotion dispenser, paper towel dispenser, waste disposal. 1000mm radius splash zone to be free of curtains, equipment and furniture.
<b>Inpatient Care</b>	Care for patients that require hospitalization and observation/monitoring.
<b>Interdisciplinary</b>	Care and consultation provided by variety of disciplines and departments.
<b>Major Treatment</b>	Use of general anaesthetic Implantable devices Patient requires respiratory assistance
<b>Minor Treatment</b>	Generally ambulatory procedures No general anaesthetic
<b>Net Area</b>	The space (floor area) inside the walls of an individual room or the space (floor area) that includes the space for the specific function where there are no walls.
<b>Outpatient Care</b>	See "Ambulatory Care".



## **SECTION A. NET AREAS AND GROSSING FACTORS**

The following three tables summarize the recommended room net areas and departmental grossing factors for healthcare facilities in the Province of Alberta.

### **I. Recommended Room Type Net Area**

*Table 2: Summary of Recommended Net Areas:*

<b>Room Standard Types</b>		
<b>A AMBULATORY CARE</b>		
-1	Examination Room, Type 1	12.0
-2	Examination Room, Type 2	13.0
-3	Procedure Room, Type 1	15.5
-4	Procedure Room, Type 2	22.5
-5	Clinical Consultation Room	10.0
-6	Endoscopy Room	24.0
-7	Cystoscopy Room	24.0
-8	Urodynamics Room	33.0
-9	Ear Nose Throat Room	15.5
-10	Treatment Room Isolation	23.0
-11	Treatment Station	9.0
-12	EEG Room	14.5
-13	Pulmonary Function Treatment Room	12.0
<b>B EMERGENCY DEPARTMENT</b>		
-1	Universal Treatment Space	12.0
-2	Airborne Isolation Room	24.0
-3	Resuscitation/Trauma Room	33.0
-4	Mental Health Room	11.0
<b>C CARDIOLOGY SERVICES</b>		
-1	ECG Room	13.5
-2	Stress Testing Room	22.0
-3	CATH LAB / Control / Equipment	70.0
<b>D PARR (Post Anesthesia Recovery Room)</b>		
-1	Patient Post Anaesthesia Recovery	10.0
-2	Isolation Room	21.5
-3	Pre-Op Holding	5.0/9.0
-4	Pre-Op Holding Isolation	21.5

E INPATIENT MEDICAL/SURGICAL		
-1	Private Bed Room, Isolation	35.0
-2	Private Bed Room	28.5
-3	Semi Private Bed Room	49.0
-4	Private Bed Room, Pediatrics	31.0
-5	Semi Bed Room, Pediatrics	49.0
-6	4 Bed Observation/Special Purpose Rm	144.0
-7	Palliative Care Bed Room	31.0
-8	Medication Room	15.0
-9	Housekeeping	7.0/11.0
-10	Clean Supply	11.0
-11	Soiled Holding	13.5
F CRITICAL CARE UNIT		
-1	Private Bed Room, CCU	31.0
-2	Private Bed Room, ICU	29.5
-3	Private Bed Room, CVICU	31.0
-4	Private Bed Room, PICU	34.0
-5	Private Bed Room, NICU	28.0
-6	Patient Room, Isolation	39.0
G MATERNAL NEWBORN		
-1	LDR room	38.0
-2	Operative Birthing Room	60.0
-3	Semi Private Room, Post-partum	49.0
-4	Private Bed Room, Post-partum	28.5
H SURGICAL SUITE		
-1	Operating Room, General	60.0
-2	Operating Room, Special	70.0
I REHABILITATION MEDICINE		
-1	Private Bedroom, Rehab, Isolation	35.0
-2	Private Bedroom, Rehab	28.5
-3	Semi Private Bedroom, Rehab	49.0
J MENTAL HEALTH & ADDICTIONS		
-1	Private Bedroom, Isolation	24.0
-2	Private Bedroom	23.0

-3	Semi Private Bedroom	41.0
K DIAGNOSTIC IMAGING		
-1	General Radiography	35.0
-2	Fluoroscopy Room	40.0
-3	CT Scanner	42.0
-4	Mammography Room	15.0
-5	MRI	88.0
-6	Ultrasound	13.0
-7	Interventional Radiography	80.0
-8	SPECT/CT Scanner	42.0
L OTHER		
-3	Video-conference Room, Type 1	22.0
-4	Video-conference Room, Type 2	27.0
-5	Video-conference Room, Type 3	57.5

## II. Recommended Departmental Grossing Factors

Table 3: Departmental Grossing Factors

Department	Proposed Departmental Grossing Factor
1 Ambulatory Care	
- <i>Hospital</i>	1.46
- <i>Community Health Centre</i>	1.44
2 Emergency Department	
- <i>Hospital</i>	1.60
- <i>Community Health Centre (urgent care centre)</i>	1.50
3 Cardiology Services, Electrodiagnostic Services	1.50
4 Day Surgery/PARR	1.55
5 Medical/Surgical Inpatient Unit	1.55
- <i>inpatient areas</i>	
- <i>support areas</i>	
6 Critical Care Unit	1.55
7 Labour and Delivery/Birthing Unit	1.55
8 Surgical Suite (including operating rooms)	
- operating rooms	1.60
- PACU	1.60
- offices	1.60 <sup>a</sup>
9 Rehabilitation Services	
- <i>inpatient unit</i>	1.55
- <i>outpatient rehab areas</i>	1.40
10 Mental Health & Addictions	
- <i>inpatient unit</i>	1.55
- <i>ambulatory care clinic areas</i>	1.45



11	Diagnostic Imaging	1.50
12	Haemodialysis	1.50
13	Laboratory	1.35
14	Pharmacy	1.30
15	Education and Training	1.30
16	Respite and Palliative Care	1.55
17	Central Sterilization & Re-processing	1.25
18	Food Services	1.25

<sup>a</sup> If planned as flex space, use 1.60

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### III. Recommended Building Grossing Factors

Table 4: Building Grossing Factors

Proposed building Grossing Factor	Hospital		Community Health Centre
	Up to 100 beds	100 Beds Plus	
<b>Component</b>	<b>1.30 to 1.34</b>	<b>1.37 to 1.41</b>	<b>1.20 to 1.26</b>
- circulation	1.18 - 1.20	1.22 - 1.24	1.14 - 1.18
- core mechanical and electrical	1.10 - 1.12	1.12 - 1.14	1.05 - 1.07

Note: Total Building Grossing Factors are compounded; total values are determined by applying the circulation factor to the gross departmental area. The core mechanical/electrical is then applied to the total (the total departmental and building circulation).

## **Section B: Net Areas Room Data Sheets**

### **I. Net Areas Room Data Sheet List**

•	<b>Ambulatory Care</b>	
–	A-01 Examination Room, Type 1	25
–	A-02 Examination Room, Type 2	29
–	A-03 Procedure Room, Type 1	33
–	A-04 Procedure Room, Type 2	37
–	A-05 Consultation Room/Clinical Office	41
–	A-06 Endoscopy Room	45
–	A-07 Cystoscopy Room	49
–	A-08 Urodynamics Room	53
–	A-09 Ear Nose Throat Room	57
–	A-10 Treatment Station, Isolation	61
–	A-11 Treatment Station, Type 1	65
–	A-12 EEG Room	69
–	A-13 Pulmonary Function Treatment Room	73
•	<b>Emergency Department</b>	
–	B-01 Universal Treatment Space	77
–	B-02 Airborne Treatment Space	83
–	B-03 Resuscitation/Trauma Room	87
–	B-04 Mental Health Room	91
•	<b>Cardiology Services</b>	
–	C-01 ECG Room	95
–	C-02 Stress Testing Room	99
–	C-03 CATH Lab/Control/Computer Room	103
•	<b>PARR</b>	
–	D-01 PARR	107
–	D-02 Isolation Room	111
–	D-03 Pre-Op Holding	115
–	D-04 Pre-Op Holding Isolation	119
•	<b>Inpatient Unit – Medical/Surgical</b>	
–	E-01 Private Bed Room, Isolation	123
–	E-02 Private Bed Room	127
–	E-03 Semi Private Bed Room	131
–	E-04 Private Bed Room, Paediatric	135
–	E-05 Semi Bed Room, Paediatric	139
–	E-06 4-bed Observation/Special Purpose Room	143
–	E-07 Palliative Care Bed Room	147
–	E-08 Medication Room	151
–	E-09 Housekeeping	155
–	E-10 Clean Supply	159
–	E-11 Soiled Holding	163

•	<b>Critical Care Unit</b>		
–	F-01	Private Bed Room, CCU	167
–	F-02	Private Bed Room, ICU	171
–	F-03	Private Bed Room, CVICU	175
–	F-04	Private Bed Room, PICU	179
–	F-05	Private Bed Room, NICU	183
–	F-06	Patient Room, Isolation	187
•	<b>Labour and Delivery</b>		
–	G-01	LDR Room	191
–	G-02	Operative Birthing Room	195
–	G-03	Semi Private Room, Post-Partum	199
–	G-04	Private Bed Room, Post-Partum	203
•	<b>Surgical Suite</b>		
–	H-01	Operating Room, General	207
–	H-02	Operating Room, Special	211
•	<b>Rehabilitation Medicine</b>		
–	I-01	Private Bed Room, Rehab, Isolation	217
–	I-02	Private Bed Room, Rehab	221
–	I-03	Semi Private Bed Room, Rehab	225
•	<b>Mental Health and Addictions</b>		
–	J-01	Private Bed Room, Mental Health, Isolation	229
–	J-02	Private Bed Room, Mental Health	233
–	J-03	Semi Private Bed Room, Mental Health Diagnostic Imaging	237
•	<b>Diagnostic Imaging</b>		
–	K-01	General Radiography	241
–	K-02	Fluoroscopy Room	245
–	K-03	CT Scanner	249
–	K-04	Mammography Room	255
–	K-05	MRI	259
–	K-06	Ultrasound	263
–	K-07	Interventional Radiography	267
–	K-08	SPECT/CT Scanner	273
•	<b>Other</b>		
–	L-01	Video-Conference Room, Type 1	277
–	L-02	Video-Conference Room, Type 2	281
–	L-03	Video-Conference Room, Type 3	285

## II. Net Areas Room Data Sheet Legend

The following diagrams illustrate the net area room guidelines template that was developed. The legend number highlights decisions that were made in the template design.

	Project title
	Report identification
	Sheet identification
	This section identifies patient care philosophy and protocols that have impact on room size and layout.
	This section identifies key room functions that have impact on room's size through activities and equipment.
	This chart identifies recommended design occupancy for net area. To accommodate for times of fluctuation (example: teaching) this number is sometimes indicated as a minimum/maximum.
	This section identifies ancillary spaces such as an anteroom as well as IP&C procedures, fixtures, and accessories.
	This section highlights key dimensions (length, width, and height) that have impact on room size as well as access and equipment mobility requirements.
	This section identifies a recommended net area in net square meters (nsm).
	Fixed Elements include key equipment and services that affect room size and are structurally or permanently attached to the structure/finishes and layout are identified in this section.
	Mobile elements include key patient care equipment including beds and stretchers that have an impact on room's size and/or function.
	Furniture and Equipment identifies key items located in room that have an impact on room size and/or function but are not specifically used for patient care.
	Clinical Assumptions indicate assumptions that were made with respect to the use, service model, layout, and organization of the room.
	This section identifies rooms that are adjacent, connect, or are critical to be close by.
	This section identifies considerations for design layouts.
	This section identifies references for use by designers. It is not comprehensive or authoritative.
	Room diagram is illustrative of a possible room layout based on the area and functional requirements.

1



Review and Update of Grossing Factors and Net Areas for Healthcare Facilities in Alberta

2

NET AREA  
ROOM DATA SHEET

3

Date **February 28, 2011**

Reference Number  
Department  
Room Name  
Page

**A-1**  
**Ambulatory Care**  
**EXAMINATION ROOM, Type 1**  
**1 of 4**

**PLANNING ASSUMPTIONS**

4

**PATIENT CARE PHILOSOPHY** Interdisciplinary medical and nursing care: primary assessment and treatment / family and patient centered care / supportive staff information. Decentralized documentation

5

**KEY FUNCTIONS**

- Assessment
- Clinical diagnostics
- Conference
- Documentation/Charting
- Examination
- Patient/Family Consultation
- Observation/Monitoring
- Research
- Teaching
- Major Treatment/Procedure
- Minor Treatment/Procedure
- Multidisciplinary

**Comments /Other:**

6

**DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2*	2		5

\*2-3 staff in teaching facilities

7

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 900mm clear splash radius.  
Routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS**

**Room Components**  
Place exam table to allow for staff to access patient from patient's right side and at the foot of the bed.

**Ceiling Height**  
Floor to ceiling – 2.4m minimum

**Equipment Maneuverability**  
Allow room for medical mobile carts to be positioned on one side of examination table.  
Allow room for movement of portable examination light, wheelchairs, and crutches.

8

9

AREA

NET AREA  
**12 nsm**

**Agnew Peckham**

**DIALOG**

Date | **February 28, 2011**

Reference Number  
Department  
Room Name  
Page

**A-1**  
**Ambulatory Care**  
**EXAMINATION ROOM, Type 1**  
**2 of 4**

### EQUIPMENT/SERVICES

#### FIXED ELEMENTS

10	Ceiling Mounted	Qty.	Remarks
	Privacy curtain	1	Out of splash radius
	Wall Mounted		
	Hand washing station	1	
	Floor Mounted		

#### MOBILE ELEMENTS

11	Type	Qty.	Remarks
	Patient wheelchair access	1	
	Supply cart	1	C- lockers
	Linen hamper*	1	
	Waste receptacle	1	
	Scale	1	Can be shared between rooms
	Mobile exam light	1	

\*optional

#### FURNITURE & EQUIPMENT

12	Type	Qty.	Remarks
	Examination table	1	
	Guest chair	2	For family or patient
	Computer/charting station*	1	Mobile workstation with PC visible to patients
	Work counter*	1	Upper and lower shelves with counter can be replaced by cart with working surface.
	Stool	1	For staff
	Task stool	1	
	Utility table	1	

\*optional

Date **February 28, 2011**

Reference Number **A-1**  
 Department **Ambulatory Care**  
 Room Name **EXAMINATION ROOM, Type 1**  
 Page **3 of 4**

**DESIGN CONSIDERATIONS**

13	CLINICAL ASSUMPTIONS	Does not allow for stretcher access.	
14	KEY ROOM ADJACENCIES	Alcove for gowning and PPE (Personal Protective Equipment)	
	DESIGN FLEXIBILITY	Standardize exam room modules for multiple room clinic layouts. Allow for less millwork, more use of mobile carts.	15
	REGULATIONS	National Building Code of Canada (2005) Alberta Building Code (2006)	
16	REFERENCES AND GUIDELINES	Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008) Alberta Barrier-Free Design Guide (2008) Government of Alberta Health and Wellness Infection Prevention and Control Strategy and Standards (2008) Government of Alberta Occupational Health & Safety Code Part 35 (2009) AIA Guidelines for Design and Construction of Health Care Facilities (2010) PIDAC-Provincial Infectious Diseases Advisory Committee Infection Prevention and Control (IPC) General Design Standards for Calgary Health Region Construction / Renovation Projects (July 2, 2008) Canadian Standards Association Draft Standard Z8000 Canadian Health Care Facilities (2010)	

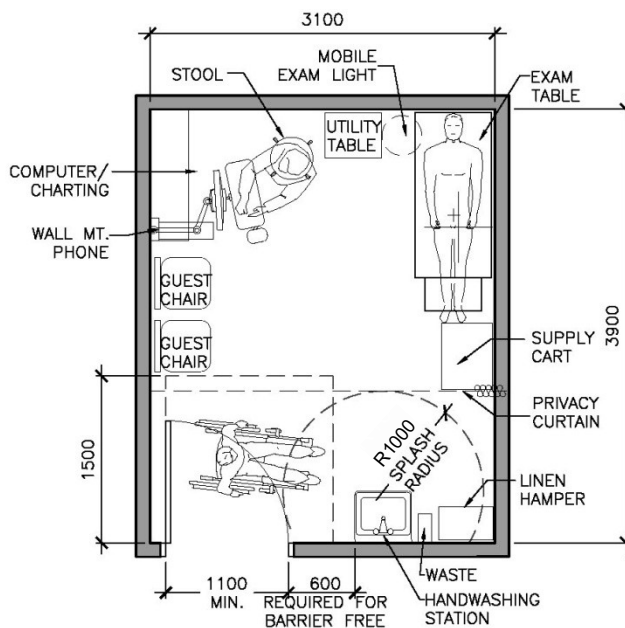


Date February 28, 2011

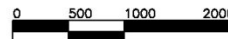
Reference Number  
Department  
Room Name  
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Ambulatory Care  
EXAMINATION ROOM, Type 1  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE FURNITURE & EQUIPMENT REQUIREMENTS MAY VARY BY SITE





Date | **December 2014**Reference Number  
Department  
Room Name  
Page**A-1**  
**Ambulatory Care**  
**EXAMINATION ROOM, Type 1**  
**1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Interdisciplinary medical and nursing care: primary assessment and treatment / family and patient centered care / supportive staff information.  
Decentralized documentation

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2*	2		5

\*2-3 staff in teaching facilities

**KEY INFECTION  
CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius.  
Routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Place exam table to allow for staff to access patient from patient's right side and at the foot of the bed.

**Ceiling Height**

Floor to ceiling – 2.4m minimum

**Equipment Maneuverability**

Allow room for medical mobile carts to be positioned on one side of examination table.

Allow room for movement of portable examination light, wheelchairs, and crutches.

AREA

NET AREA  
**12 nsm**

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Department  
Room Name  
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**Ambulatory Care**  
**EXAMINATION ROOM, Type 1**  
**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Privacy curtain	1	Out of splash radius
Wall Mounted		
Hand washing station	1	
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient wheelchair access	1	
Supply cart	1	C- lockers
Linen hamper*	1	
Waste receptacle	1	
Scale	1	Can be shared between rooms
Mobile exam light	1	

\*optional

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Examination table	1	
Guest chair	2	For family or patient
Computer/charting station*	1	Mobile workstation with PC visible to patients
Work counter*	1	Upper and lower shelves with counter can be replaced by cart with working surface.
Stool	1	For staff
Task stool	1	
Utility table	1	

\*optional

Date | **December 2014**Reference Number  
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Page**A-1**  
**Ambulatory Care**  
**EXAMINATION ROOM, Type 1**  
**3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONS

Does not allow for stretcher access.

KEY ROOM  
ADJACENCIES

Alcove for gowning and PPE (Personal Protective Equipment)

## DESIGN FLEXIBILITY

Standardize exam room modules for multiple room clinic layouts.  
Allow for less millwork, more use of mobile carts.

## REGULATIONS

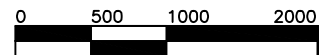
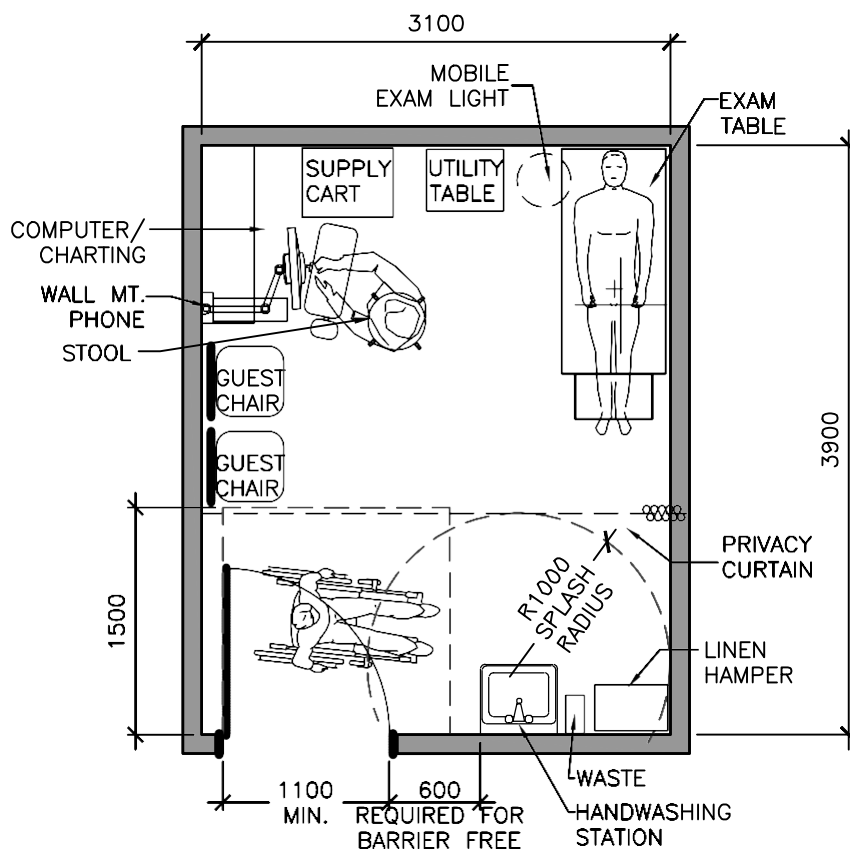
National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINESOntario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
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**Ambulatory Care**  
**EXAMINATION ROOM, Type 1**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



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Department  
Room Name  
Page**A-2**  
**Ambulatory Care**  
**EXAMINATION ROOM, Type 2**  
**1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY** Interdisciplinary medical and nursing care: primary assessment and treatment / family and patient centered care / specialty clinic / stretcher access.**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2*	2		5

\*2-3 staff in teaching facilities

**KEY INFECTION CONTROL PROTOCOLS**Hand washing station with 1000mm clear splash radius.  
Routine practices and additional precautions  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Sharps and alcohol based hand solution (wall mounted at point of care)**KEY DIMENSIONS****Room Components**

Place exam table to allow for staff to access patient from patient's right side and at foot of the bed.

**Ceiling Height**

Floor to ceiling – 2.4m minimum

**Equipment Maneuverability**

Allow room for medical mobile carts to be positioned on one side of examination table.

Allow access by patient on stretcher for examination.

Allow for adequate space for EMS stretcher access.

AREA

NET AREA  
**13 nsm**

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**Ambulatory Care**  
**EXAMINATION ROOM, Type 2**  
**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Privacy curtain	1	Out of splash radius
Wall Mounted		
Hand washing station	1	
Floor Mounted		

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Single patient stretcher/wheelchair	1	
Supply cart	1	C – lockers.
Linen hamper	1	
Waste receptacle	1	
Mobile exam light	1	
Scale	1	Can be shared between rooms.

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Examination table	1	
Guest chair	2	For family and patients
Computer/charting station*	1	Mobile workstation with PC visible to patient.
Work counter*	1	Upper and lower shelves with counter can be replaced by cart with working surface.
Stool	1	For staff
Task stool	1	
Utility table	1	

\*optional



Date | **December 2014**Reference Number  
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Room Name  
Page**A-2**  
**Ambulatory Care**  
**EXAMINATION ROOM, Type 2**  
**3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONS

Allow for stretcher and wheelchair access.

KEY ROOM  
ADJACENCIES

Alcove for gowning and PPE (Personal Protective Equipment)

## DESIGN FLEXIBILITY

Standardize exam room modules for multiple room clinic layouts.  
Allow for less millwork, more use of mobile carts.

## REGULATIONS

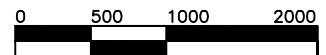
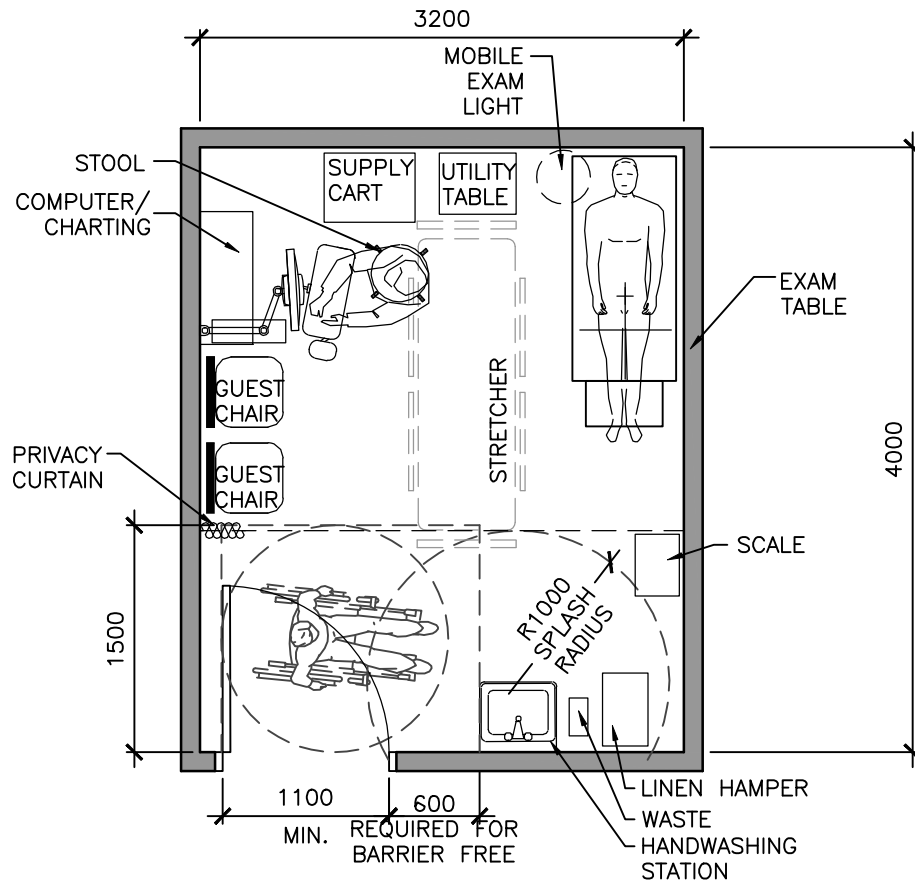
National Building Code of Canada (2005)  
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**A-2**  
**Ambulatory Care**  
**EXAMINATION ROOM, Type 2**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number  
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Page**A-3**  
**Ambulatory Care**  
**PROCEDURE ROOM, Type 1**  
**1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY**

Medical, surgical and nursing cares. Minor procedures: no conscious sedation.  
Multidisciplinary integrated care / patient and family centered care.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2	2		5

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius.  
Routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Place procedure table to allow for staff to access 3 sides of patient.  
Provide a 900mm work zone around the procedure table.

**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

Allow room for medical mobile carts to be positioned on three sides of stretcher.

Provide door size to allow for stretcher access into room.

AREA

NET AREA  
**15.5 nsm**

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Department

Room Name

Page

**A-3****Ambulatory Care****PROCEDURE ROOM, Type 1****2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Privacy curtain	1	
Lighting	1	Surgical lights/exam lights
Patient lift*	1	
Wall Mounted		
Hand washing station	1	
Headwall*	1	Medical gases, power

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
IV stand	1	
Single patient stretcher	1	Access into room by transport stretcher
Linen hamper	1	
Vital sign monitor*	1	As required
Procedure cart	1	
Procedure table	1	
Mayo stand	1	
Waste receptacle	1	
Biohazard waste receptacle	1	
Kick bucket	1	

\*optional

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Stool	1	For staff
Computer/charting station	1	Mobile workstation
Work counter	1	For charting station
Task stool	1	
Guest chair	2	For family and patients

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Page**A-3**  
**Ambulatory Care**  
**PROCEDURE ROOM, Type 1**  
**3 of 4****DESIGN CONSIDERATIONS****CLINICAL  
ASSUMPTIONS**

Procedure room, local and regional anesthesia, infection supplies storage, physiological monitoring.  
 Procedure examples: minor, suturing, lancing, vasectomies, insertion of central line  
 No implantable devices (devices intended to be more than 30 days). Notcast rooms, not a minor O.R.s.

**KEY ROOM  
ADJACENCIES**

Optional scrub sink by procedure types

**DESIGN FLEXIBILITY****REGULATIONS**

National Building Code of Canada (2005)  
 Alberta Building Code (2006)

**REFERENCES AND  
GUIDELINES**

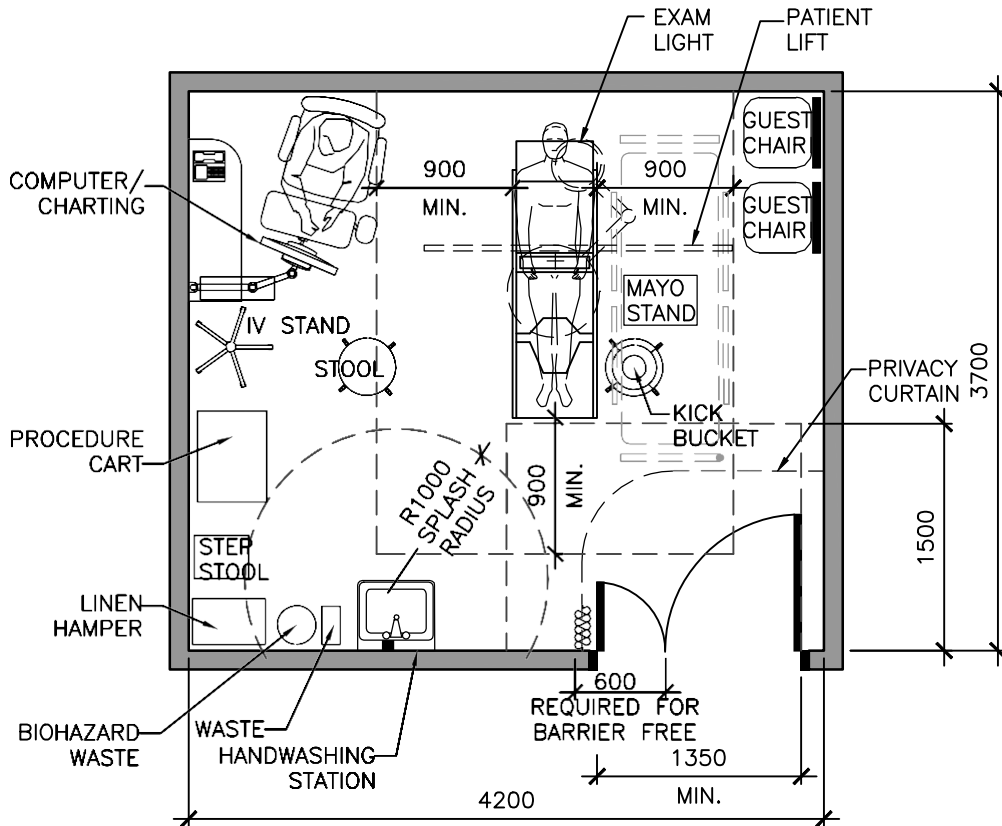
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 PIDAC-Provincial Infectious Diseases Advisory Committee  
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 CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.

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**Ambulatory Care**  
**PROCEDURE ROOM, Type 1**  
**4 of 4**

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**Ambulatory Care**  
**PROCEDURE ROOM, Type 2**  
**1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY** Medical, surgical and nursing cares. Conscious sedation. Multidisciplinary integrated care. Patient and family centered care.**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	4	1		6

Family presence is less common in this room, but dependent on situation (e.g. children, translation)

**KEY INFECTION CONTROL PROTOCOLS**Hand washing station with 1000mm clear splash radius.  
Routine practices and additional precautions  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Sharps and alcohol based hand solution (wall mounted at point of care)**KEY DIMENSIONS****Room Components**Place procedure table to allow for staff to access all sides of patient.  
Provide a 900mm staff work zone around the procedure table.**Ceiling Height**

Floor to ceiling –approx. 3m to allow for ceiling mounted service column/surgical lights – to be verified by equipment vendor.

**Equipment Maneuverability**Allow room for medical mobile carts & equipment to be positioned on all sides of stretcher.  
Provide door size to allow for stretcher access into room.

AREA

NET AREA  
**22.5 nsm**

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Room Name

Page

**A-4****Ambulatory Care****PROCEDURE ROOM, Type 2****2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS+

Ceiling Mounted	Qty.	Remarks
Service column	1	Medical gases, power,
IV track	1	
Exam Light	1	Surgical lights/ exam lights
Privacy curtain	1	Out of splash radius
Patient lift	1	
Wall Mounted		
Hand washing station	1	
Floor Mounted		
Procedure table*	1	Access into room by transport stretcher

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Supply cart	1	
Mobile diagnostic	1	Ultrasound, C-arm (as required), portable x-ray
Utility cart	1	
Instrument table	1	
Biohazard waste receptacle	1	
Waste receptacle	1	
Linen hamper	1	
Kick bucket	1	
Mayo stand	1	
Procedure cart	1	

\*optional

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Stool	2	For staff
Computer/charting station	1	Mobile workstation
Work counter	1	For charting station
Task stool	1	
Guest chair	1	



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Room Name  
Page**A-4**  
**Ambulatory Care**  
**PROCEDURE ROOM, Type 2**  
**3 of 4****DESIGN CONSIDERATIONS**

**CLINICAL ASSUMPTIONS** Supplies storage, local and regional anesthesia. Physiological monitoring. Example procedures: chest tube insertion, phlebotomy, pericardial tap, not minor O.R.  
No implantable devices (devices intended to be in for more than 30 days). Not a minor O.R.s.

**KEY ROOM ADJACENCIES** Crash cart/resuscitation  
Scrub sink alcove

**DESIGN FLEXIBILITY** Allow for potential/optional telehealth capabilities

**REGULATIONS** National Building Code of Canada (2005)  
Alberta Building Code (2006)

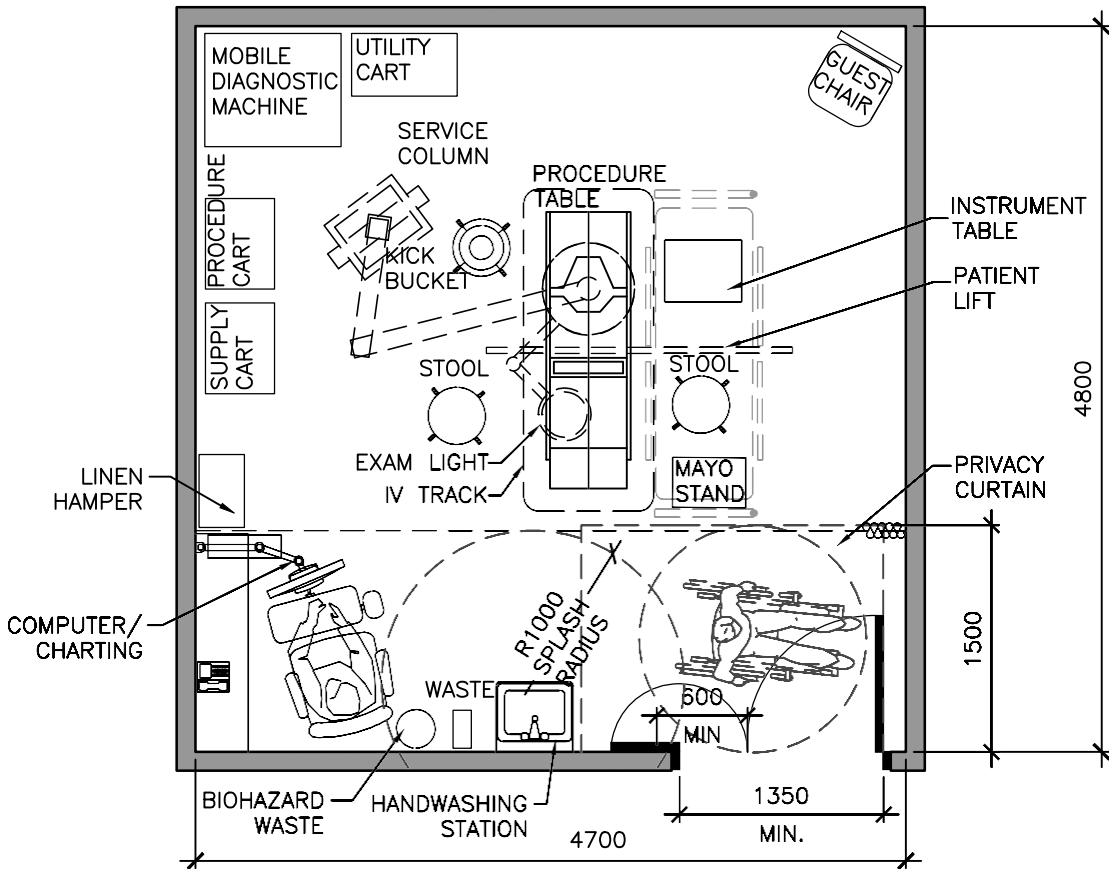
**REFERENCES AND GUIDELINES** Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
Alberta Barrier-Free Design Guide (2008)  
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**A-4**  
**Ambulatory Care**  
**PROCEDURE ROOM, Type 2**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number  
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Page**A-5**  
**Ambulatory Care**  
**CLINICAL CONSULTATION ROOM**  
**1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY** Medical consultation, patient/family education. Staff, patient and family safety and security. Patient and family centered care.**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2	3		6

**KEY INFECTION  
CONTROL PROTOCOLS**No sinks are to be located in this room.  
Routine practices and additional precautions  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Alcohol based hand solution (wall mounted).**KEY DIMENSIONS****Room Components**  
Meeting area and consultation area**Ceiling Height**  
Floor to ceiling – 2.4 m minimum**Equipment Maneuverability**  
Provide door size to allow movement of wheelchairs, crutches, etc.

AREA

NET AREA  
**10 nsm**

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Page**A-5**  
**Ambulatory Care**  
**CLINICAL CONSULTATION ROOM**  
**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Wall Mounted		
Floor Mounted		
Counter Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Recycle receptacle	1	
Waste receptacle	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Chair	2	For staff
Consultation table	1	
Guest chair	4	Family and patient
Computer / charting station	1	Mobile workstation with computer and printer
Work counter	1	For charting station
Magnetic whiteboard	1	
Coat hooks	1	

Date | **December 2014**Reference Number  
Department  
Room Name  
Page**A-5**  
**Ambulatory Care**  
**CLINICAL CONSULTATION ROOM**  
**3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONSDoes not accommodate physical examinations.  
Clinical research, medical consent. Psychosocial/IQ testing and assessment  
(no physicals).KEY ROOM  
ADJACENCIES

## DESIGN FLEXIBILITY

Allow for telehealth capabilities

## REGULATIONS

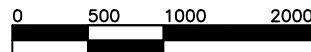
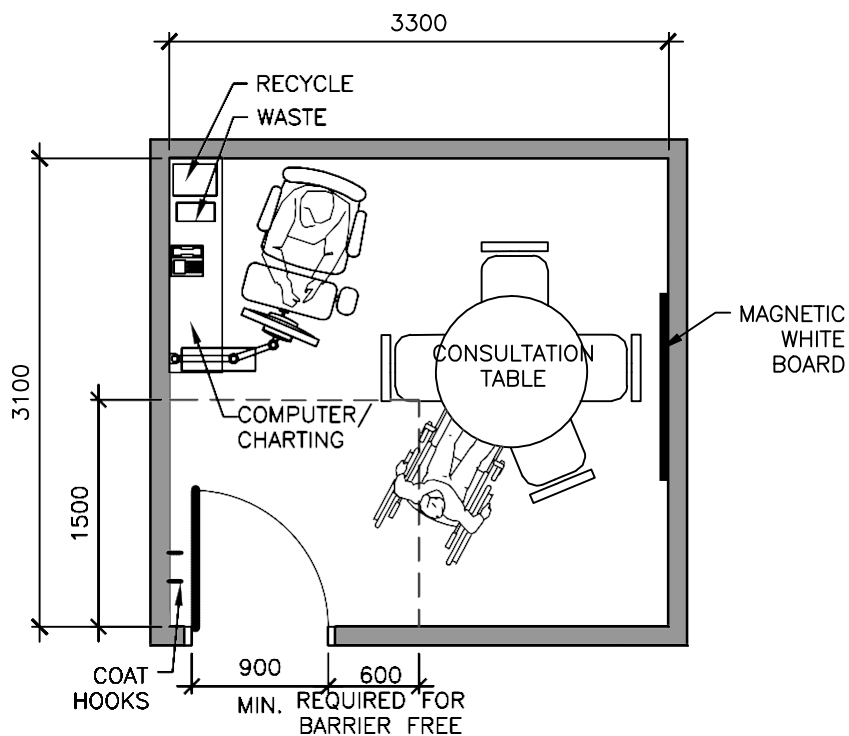
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**A-5**  
**Ambulatory Care**  
**CLINICAL CONSULTATION ROOM**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | December 2014

Reference Number | A-6  
Department | Ambulatory Care  
Room Name | ENDOSCOPY ROOM  
Page | 1 of 4**PLANNING ASSUMPTIONS**

PATIENT CARE PHILOSOPHY | Interdisciplinary medical and nursing care, and patient centered care.

## KEY FUNCTIONS

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:**

## DESIGN OCCUPANCY

Patient	Staff	Family	Other	Total
1	3*	0		4

\*includes students

KEY INFECTION  
CONTROL PROTOCOLS

Centralized cleaning at MDR (CSR) or within unit.  
 Routine practices and additional precautions.  
 FFE-mask, eye protection and glove box dispenser (wall mounted)  
 Sharps and alcohol based hand solution (wall mounted at point of care)  
 Scrub sink outside of room.

## KEY DIMENSIONS

**Room Components**

Allow access to all 4 sides of stretcher.  
 Allow 1.5m wide staff work zone around the stretcher.  
 Allow for equipment zone around the perimeter.

**Ceiling Height**

Floor to ceiling - 3m minimum for ceiling mounted equipment and lights.

**Equipment Maneuverability**

Allow room for medical mobile carts on all sides of examination table.  
 Provide door size to allow for stretcher access into room.

AREA

NET AREA  
24 nsm

Date | December 2014

Reference Number | A-6  
Department | Ambulatory Care  
Room Name | ENDOSCOPY ROOM  
Page | 2 of 4**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Patient lift*	1	
Service column*	1	Medical gases, power, camera
Procedure light	1	
Vital sign monitor	1	Can also be wall mounted
Wall Mounted		
Handwash sink	1	
Headwall*	1	
Endoscopy monitor	1	
Counter*	1	With supply storage
Floor Mounted		
Scope cabinet	1	Outside of room
Warming Unit	1	
Counter Mounted		

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient stretcher	1	
Endoscopy system	1	
C-locker storage	2	
Supply cart	1	
IV stand	1	
Linen hamper	1	
Procedure cart	1	
Mayo stand	1	
Biohazard waste receptacle	1	
Waste receptacle	2	
Exam table	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Task stool	1	For charting station
Stool	1	For physician
Computer/charting station	1	Mobile workstation with computer



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Page**A-6**  
**Ambulatory Care**  
**ENDOSCOPY ROOM**  
**3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONS

Dictation to occur in a separate room.  
 Scope cabinet exterior to room  
 Sedation – no general anesthesia, including conscious sedation  
 Centralized cleaning at MDR (CSR) or within unit.

KEY ROOM  
ADJACENCIES

Scrub sink alcove

## DESIGN FLEXIBILITY

Allow same layout as other procedure rooms for future flexibility

## REGULATIONS

National Building Code of Canada (2005)  
 Alberta Building Code (2006)

REFERENCES AND  
GUIDELINES

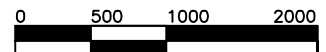
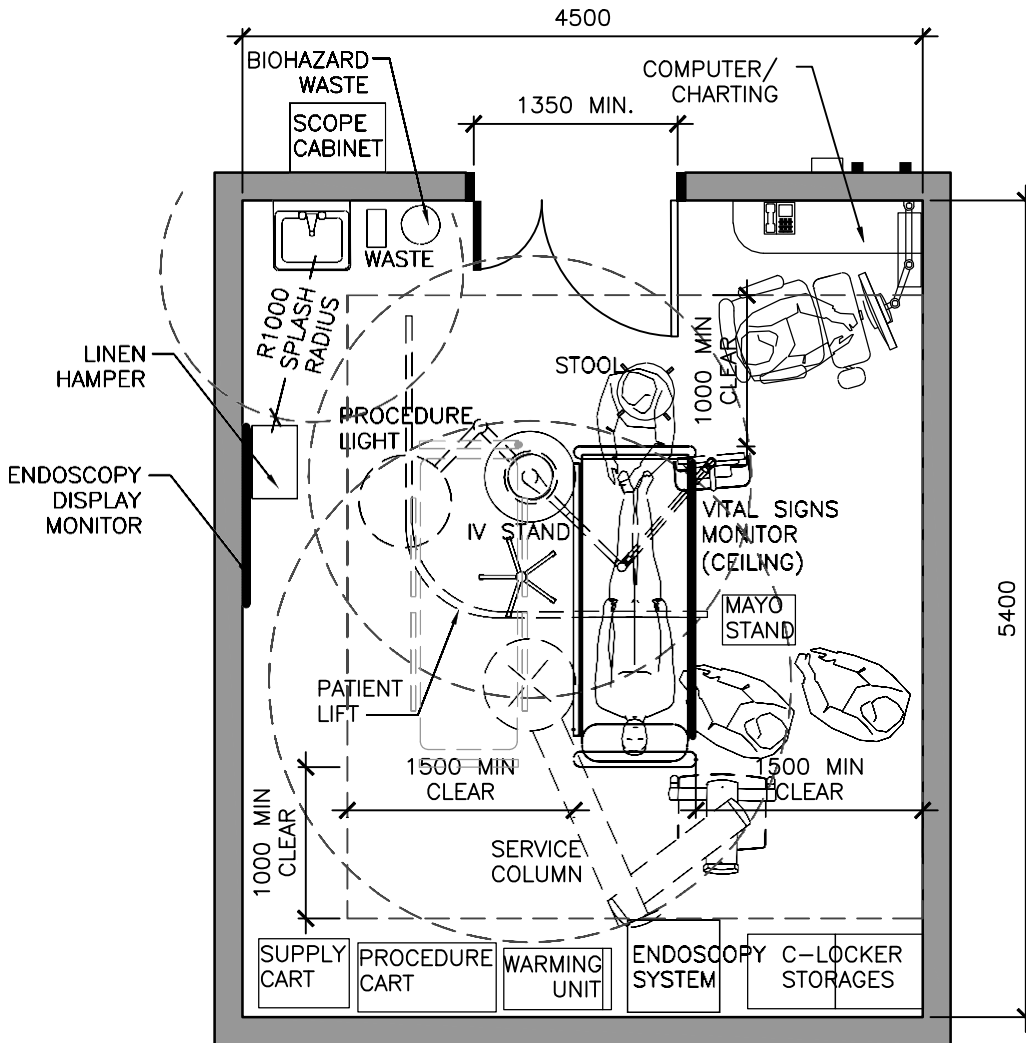
Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
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 AHS Infection Prevention and Control - Health Care Facility Design Guidelines and Preventive Measures for Construction, Renovation and Maintenance Activities, May 2013.  
 CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.

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Reference Number  
Department  
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**Ambulatory Care**  
**ENDOSCOPY ROOM**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number  
Department  
Room Name  
Page**A-7**  
**Ambulatory Care**  
**CYSTOSCOPY ROOM**  
**1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY** Ambulatory Care – Urology. Interdisciplinary medical and nursing care, and patient centered care.**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	3	0		4

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, centralized cleaning at MDR (CSR).

Routine practices and additional precautions.

FFE-mask, eye protection and glove box dispenser (wall mounted)

Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow access to all 4 sides of stretcher.

Allow 1.5m wide staff work zone around the stretcher.

Allow for equipment zone around the perimeter.

**Ceiling Height**

Floor to ceiling –3m minimum for service column

**Equipment Maneuverability**

Allow space for medical mobile carts/equipment on either side of examination table.

Allow space to maneuver stretcher into position.

Equipment and supplies around perimeter of room.

AREA

NET AREA  
**24 nsm**

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Reference Number | A-7  
Department | Ambulatory Care  
Room Name | CYSTOSCOPY ROOM  
Page | 2 of 4**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Category	Qty.	Remarks
<b>Ceiling Mounted</b>		
Service column*	1	Medical gases, power, cystoscopy equipment (or on cart)
Patient lift*	1	
Procedure light	1	
Vital sign monitor*	1	Can also be wall mounted
<b>Wall Mounted</b>		
Scrub sink	1	Outside room complete with supplies
Headwall*	1	Medical gases, power
Counter*	1	With supply storage
<b>Floor Mounted</b>		
Warming unit	1	
Scope cabinet	1	
<b>Counter Mounted</b>		

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Cystoscopy equipment*	1	Equipment on cart or column
Exam table*	1	Exam chair may be used instead of table
Exam chair*	1	May be used instead of exam table
Supply cart*	1	All carts need to be closed carts
Mayo stand	1	
Linen hamper	1	
Biohazard waste receptacle	1	
Waste receptacle	1	
Procedure cart	1	All carts need to be closed carts
IV stand	1	
C-locker storage	1	

\*optional

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Stool	1	
Computer/charting station	1	Mobile work station with computer
Work counter	1	For charting station
Step stool	1	

\*optional

Date | **December 2014**Reference Number | **A-7**  
Department | **Ambulatory Care**  
Room Name | **CYSTOSCOPY ROOM**  
Page | **3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONSScope cabinet exterior to room  
Dictation in a separate room  
Scope cleaning/reprocessing to be centralizedKEY ROOM  
ADJACENCIES

Scrub sink alcove

## DESIGN FLEXIBILITY

Room sized for future equipment and procedures

## REGULATIONS

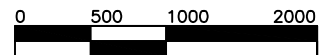
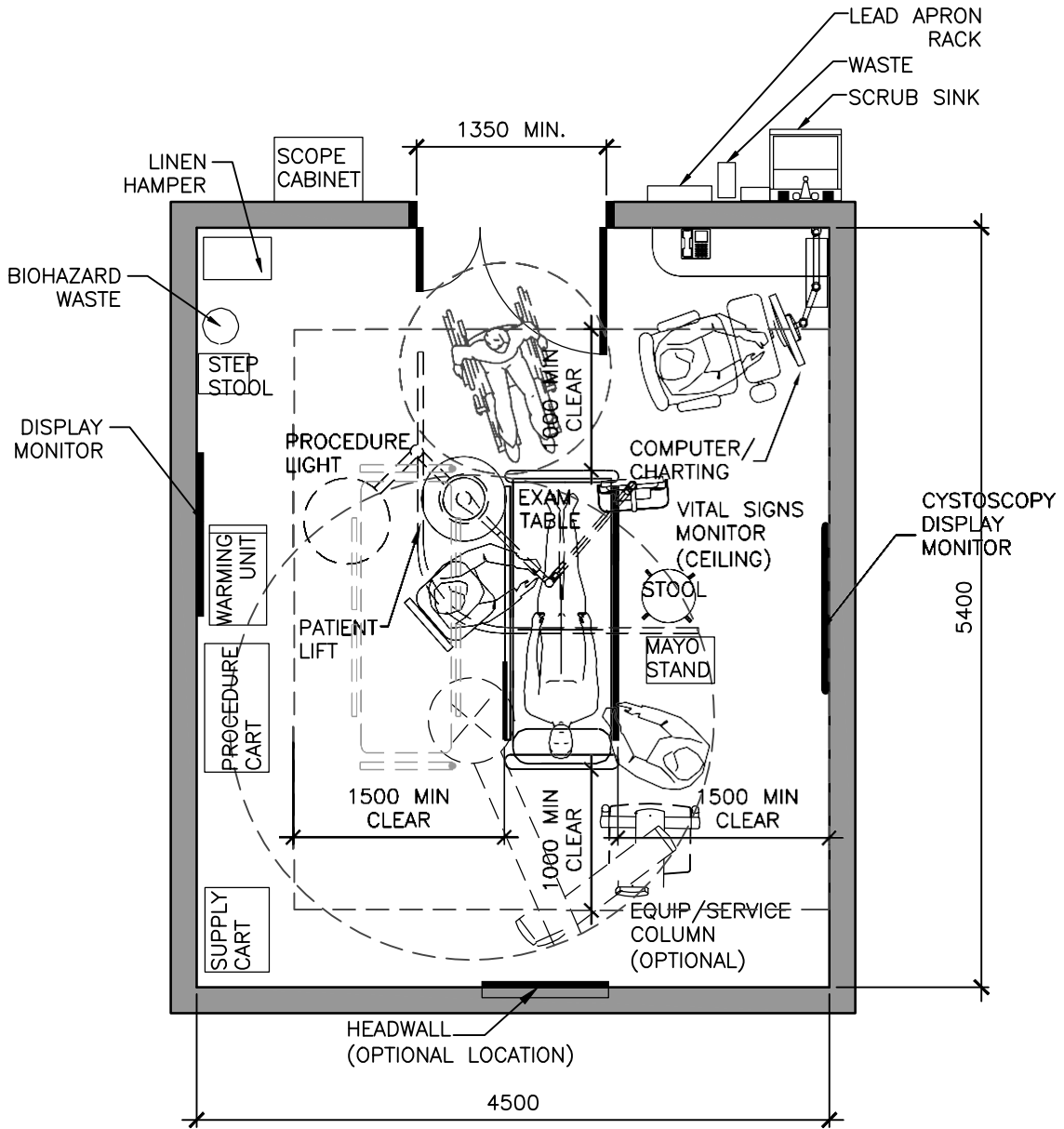
National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINESOntario Ministry of Health and Long-Term Care: Generic Output  
Specifications (2008)  
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and Preventive Measures for Construction, Renovation and Maintenance  
Activities, May 2013.  
CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.

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**Ambulatory Care**  
**CYSTOSCOPY ROOM**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number | **A-8**  
Department | **Ambulatory Care**  
Room Name | **URODYNAMICS ROOM**  
Page | **1 of 4****PLANNING ASSUMPTIONS**

PATIENT CARE PHILOSOPHY      Medical and nursing care: primary diagnostic assessment and treatment.

## KEY FUNCTIONS

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:**

## DESIGN OCCUPANCY

Patient	Staff	Family	Other	Total
1	3	0		4

KEY INFECTION  
CONTROL PROTOCOLS

Hand washing station with 1000mm clear splash radius.  
 Routine practices and additional precautions.  
 FFE-mask, eye protection and glove box dispenser (wall mounted)  
 Sharps and alcohol based hand solution (wall mounted at point of care)

## KEY DIMENSIONS

**Room Components**

Place the urodynamic table centrally to allow for a 1200mm at sides and 900mm at ends staff work zone around the table.  
 Allow for a computer work area and control room within protective radiation shielding.

**Ceiling Height**

Floor to ceiling – 2.7m minimum  
 Confirm ceiling height with uroscope equipment vendor

**Equipment Maneuverability**

Provide door size to allow room for stretcher access into the room.

AREA

NET AREA  
**33 nsm**

Date | **December 2014**Reference Number | **A-8**  
Department | **Ambulatory Care**  
Room Name | **URODYNAMICS ROOM**  
Page | **2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Exam Light	1	
Patient lift	1	
Radiation shielding		Vender equipment dependent
Wall Mounted		
Hand washing station	2	
Lead apron rack	1	
Work counter	1	In urodynamics room for effluent disposal system with upper cabinet
Grab Bars	1	
Floor Mounted		
Urological table	1	
Counter Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient stretcher	1	
Biohazard waste receptacle	1	
Waste receptacle	1	
Supply cart	1	
Equipment table	1	
Transducer tower	1	
Effluent disposal system	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Stool	1	For physician
Computer/charting station	1	Mobile workstation with computer
Step stool	1	
Commode chair	1	Stored under counter
Work counter	2	Sitting height, in control station
Chairs	2	Control Station



Date | **December 2014**

Reference Number | **A-8**  
 Department | **Ambulatory Care**  
 Room Name | **URODYNAMICS ROOM**  
 Page | **3 of 4**

**DESIGN CONSIDERATIONS**

CLINICAL  
ASSUMPTIONS

KEY ROOM  
ADJACENCIES

Allow for direct access to barrier-free patient washroom.

DESIGN FLEXIBILITY

Room size may change based on the equipment selection and procedure.

REGULATIONS

National Building Code of Canada (2005)  
 Alberta Building Code (2006)

REFERENCES AND  
GUIDELINES

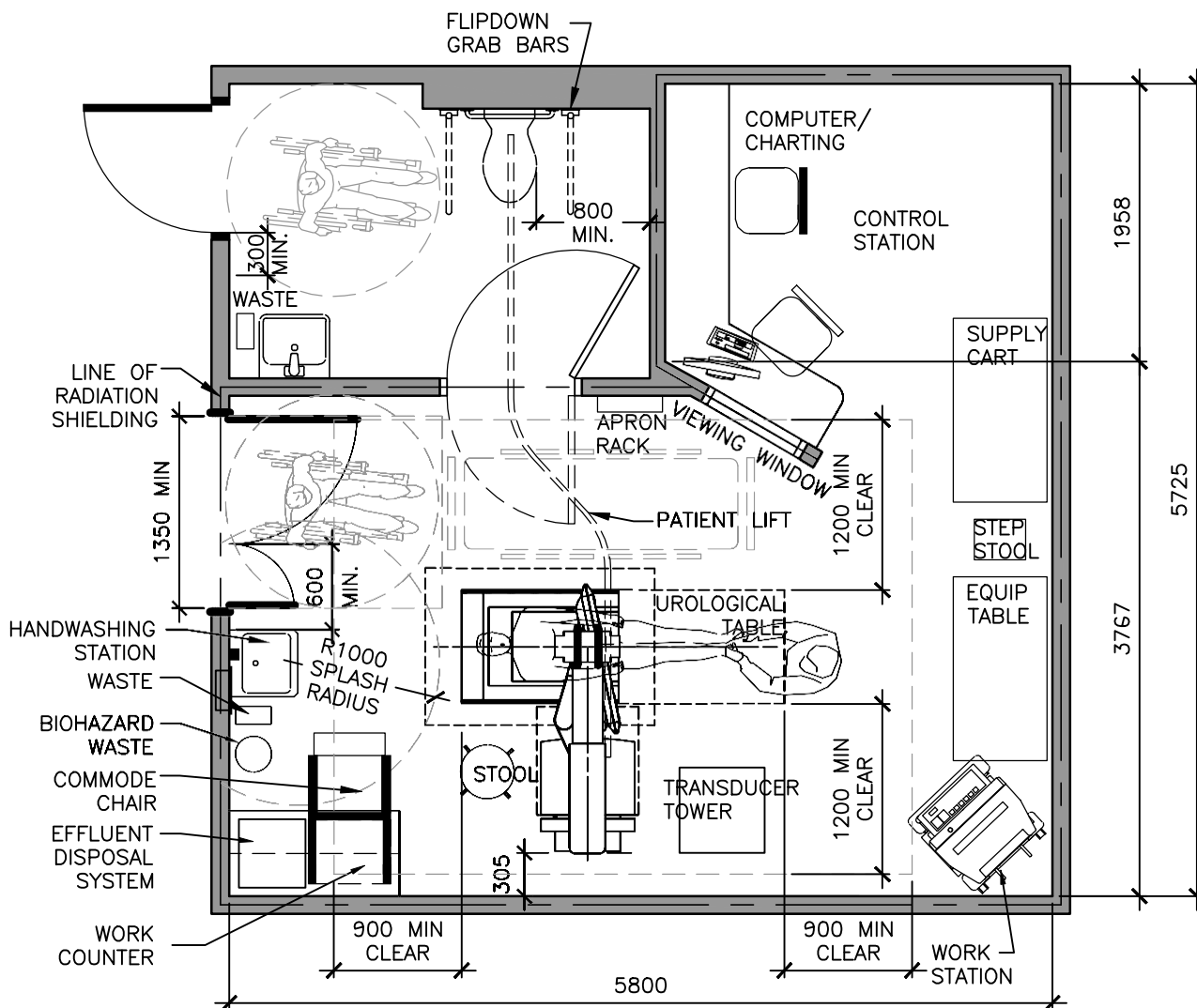
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 CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.

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**Ambulatory Care**  
**URODYNAMICS ROOM**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number  
Department  
Room Name  
Page**A-9**  
**Ambulatory Care**  
**EAR NOSE THROAT ROOM**  
**1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Interdisciplinary medical and nursing care: primary assessment and treatment. Family and patient centered care.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2	1		4

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius.  
Terminal cleaning  
Routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Place chair to allow access to the patient's head on three sides.  
Provide a 900mm work zone around the patient.

**Ceiling Height**

Floor to ceiling – 2.4 m minimum

**Equipment Maneuverability**

Allow room for medical mobile carts on either side of examination chair.  
Allow room for movement of wheelchairs, crutches, etc.

AREA

NET AREA  
**15.5 nsm**

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Reference Number

Department

Room Name

Page

**A-9****Ambulatory Care****EAR NOSE THROAT ROOM****2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Procedure light	1	
Wall Mounted		
Hand washing station	1	
Microscope	1	By ENT workstation
Vital signs monitor	1	Can also be mobile equipment
Floor Mounted		
Utility counter *	1	Upper and lower shelves with utility sink
Counter Mounted		
Utility sink	1	

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient stretcher/wheelchair/ ENT chair	1	
Biohazard waste receptacle	1	
ENT workstation	1	
Utility cart	1	
Video stand	1	With light source
Mayo stand	1	
Linen hamper	1	
Waste receptacle	1	
Storage cabinet	1	
Vital signs monitor	1	
Slit lamp	1	
Hyfrecator machine	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Task chair	1	For charting station
Guest chair	1	For family
Computer/charting station	1	Mobile workstation
Stool	1	For Surgeon, with back support
Mirror	1	

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Room Name  
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**Ambulatory Care**  
**EAR NOSE THROAT ROOM**  
**3 of 4**

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONS

KEY ROOM  
ADJACENCIES

DESIGN FLEXIBILITY

Allow for potential to accommodate functions of other rooms for future flexibility

REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)

REFERENCES AND  
GUIDELINES

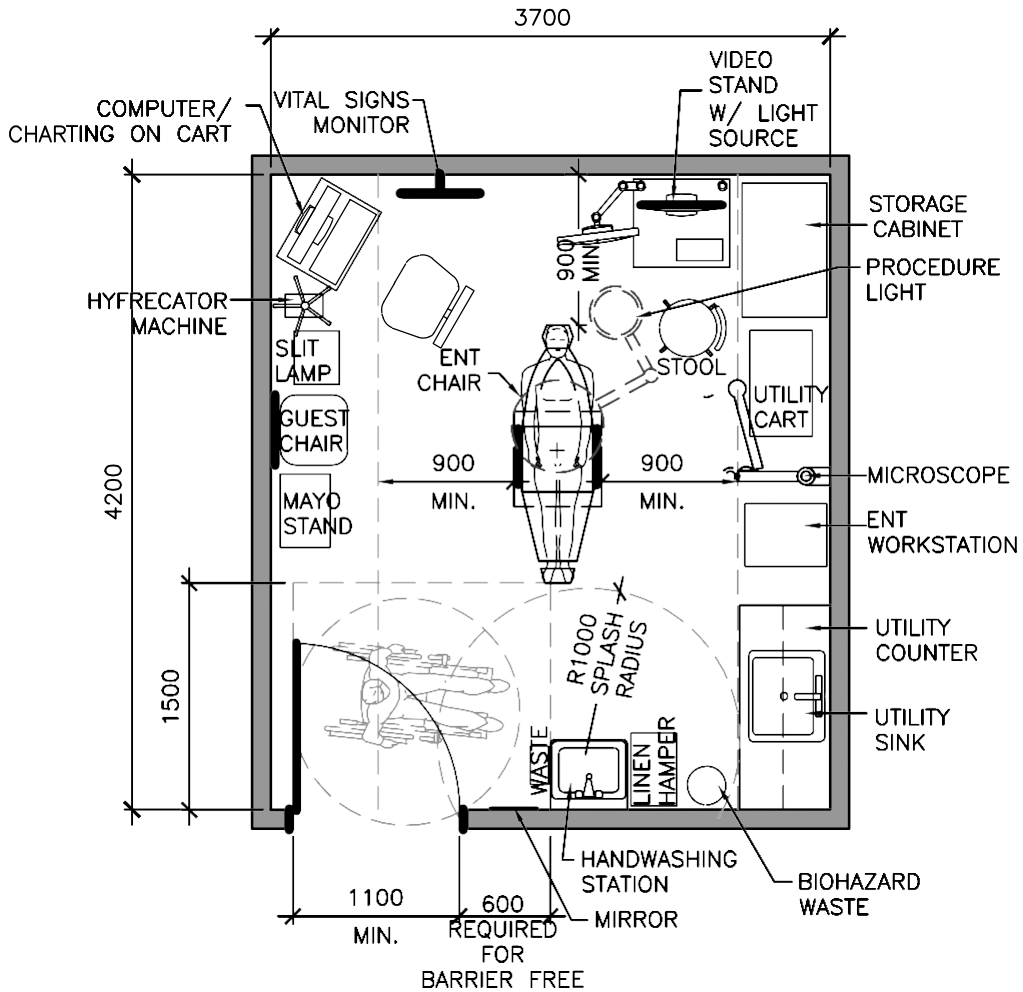
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**A-9**  
**Ambulatory Care**  
**EAR NOSE THROAT ROOM**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | December 2014

Reference Number  
Department  
Room Name  
PageA-10  
Ambulatory Care  
TREATMENT ROOM, Isolation  
1 of 4**PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Medical and nursing care: focused on family and patient centered care and treatment. Specialty clinic. Staff, patient, and family safety.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2	1		4

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, contact isolation, airborne isolation, droplet isolation, positive pressure anteroom, Routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow 1200mm clear at each side and foot of stretcher.  
Allow access to right hand side of patient.  
Allow for chair for support person.  
Allow for supply/procedure carts.

**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

Provide door size and allow space for medical mobile carts on either side of bed and stretcher accessibility.  
Allow for circulation through anteroom.

AREA

NET AREA  
23 nsm

Date | December 2014

Reference Number  
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Room Name  
PageA-10  
Ambulatory Care  
TREATMENT ROOM, Isolation  
2 of 4**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Patient lift	1	
Privacy curtain	1	Out of splash radius
Wall Mounted		
Hand washing station	3	1 in anteroom, 1 in patient room, 1 in patient washroom
Headwall	1	Medical gases, power
Bed bumper	1	
Grab bar	2	In patient washroom
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient bed or chair	1	
Over bed table	1	
Linen hamper	1	1 outside of room
Utility cart	1	
IV stand	1	
Biohazard waste receptacle	1	
Waste receptacle	3	1 in anteroom, 1 in patient washroom, 1 in treatment room
Isolation supplies cart	1	In anteroom
Dialysis machine	1	Moves in and out of room as required
Shelving system	1	In anteroom, either counter or cart
Procedure cart	1	Moves in and out of room as required
Cart	1	
Commode Chair	1	To be moved in and out as necessary

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Guest chair	1	For family/support
Step stool	1	
Computer/charting station	1	Mobile workstation



Date | **December 2014**Reference Number  
Department  
Room Name  
Page**A-10**  
**Ambulatory Care**  
**TREATMENT ROOM, Isolation**  
**3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONS

Length of stay will be greater than 4 hours

KEY ROOM  
ADJACENCIES

Anteroom and patient washroom

## DESIGN FLEXIBILITY

## REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINES

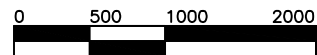
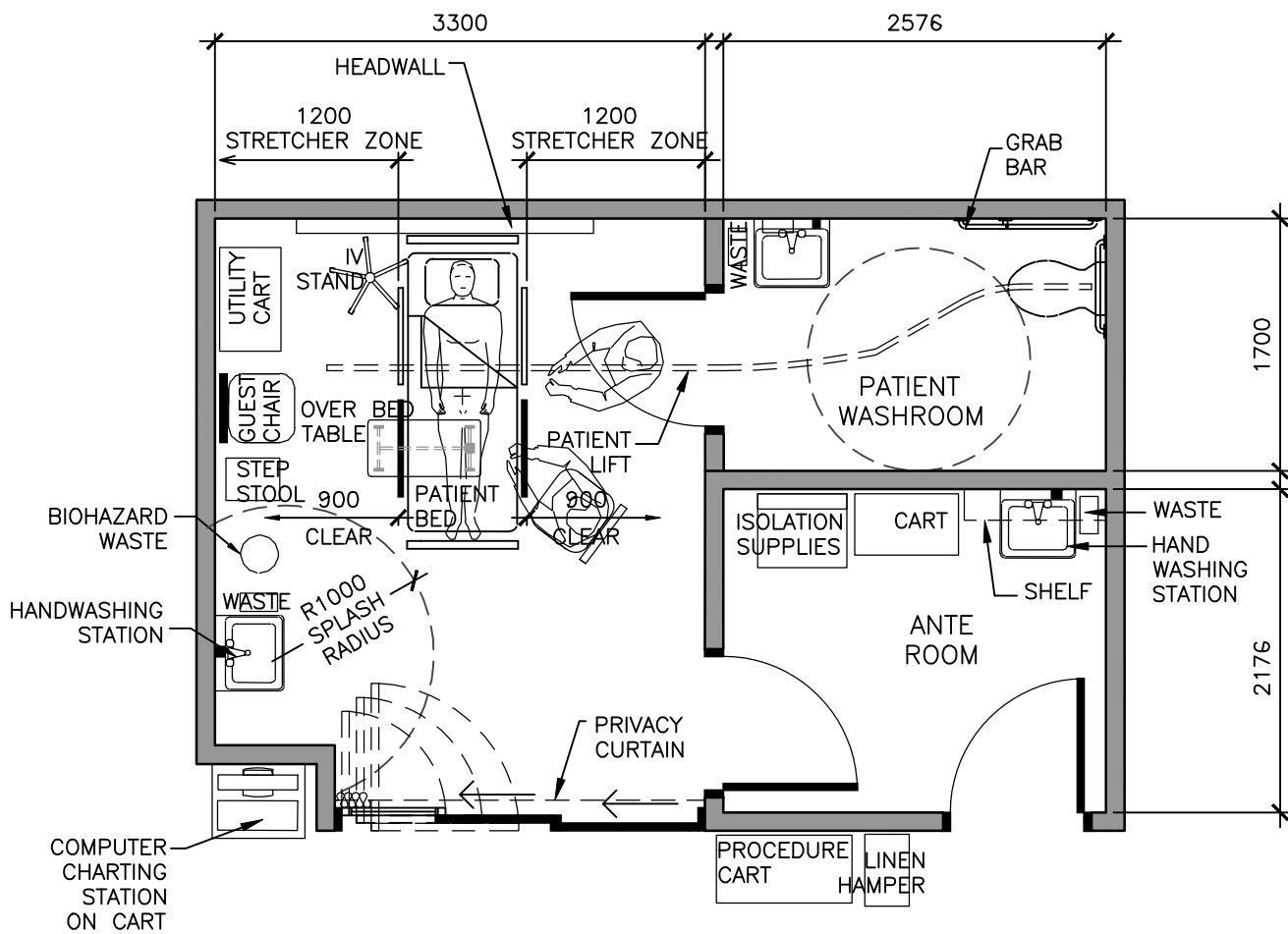
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**Ambulatory Care**  
**TREATMENT ROOM, Isolation**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number  
Department  
Room Name  
Page**A-11**  
**Ambulatory Care**  
**TREATMENT STATION, Type 1**  
**1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Interdisciplinary medical and nursing care: focused on family and patient centered care and treatment. Dialysis, chemotherapy, IV therapy, blood transfusion.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	1	1		3

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, maximum 1 sink per 4 patients,  
Routine practices and additional precautions  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Sharps and alcohol based hand solution (wall mounted at point of care) .

**KEY DIMENSIONS****Room Components**

Allow for patient treatment bed or lounge type chair

**Ceiling Height**

Floor to ceiling – 2.4m minimum

**Equipment Maneuverability**

Allow room for medical mobile carts and equipment on either side of bed/chair.

AREA

NET AREA  
**9 nsm**

Date | **December 2014**

Reference Number

Department

Room Name

Page

**A-11****Ambulatory Care****TREATMENT STATION, Type 1****2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Privacy curtain	1	
LCD Television	1	
Wall Mounted		
Headwall	1	Medical gases, power
Dialysis unit*	1	Recessed
Hand washing station	1	Outside of room (Shared between rooms)
Vital signs monitor	1	Mounted to headwall
Floor Mounted		

\* optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient bed/stretchers or chair	1	
IV stand	1	
Mobile treatment equipment	1	Move in and out as required
Waste receptacle	3	1 per patient, 1 in hand washing station
Supply cart	2	1 per patient
Procedure cart	1	
Dialysis machine	1	Move in and out as required
Linen hamper	1	
Over bed table	1	
Warming cabinet	1	In alcove outside of treatment space

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Guest chair	1	
Charting station	1	In alcove, 1 per 2 stations

Date | **December 2014**Reference Number  
Department  
Room Name  
Page**A-11**  
**Ambulatory Care**  
**TREATMENT STATION, Type 1**  
**3 of 4****DESIGN CONSIDERATIONS****CLINICAL  
ASSUMPTIONS**

Area based on open or partially enclosed rooms. Area would need to be increased for fully enclosed rooms.

**KEY ROOM  
ADJACENCIES**Hand washing station  
Warming cabinet alcove**DESIGN FLEXIBILITY**Allow for multiple treatment procedures  
Provide line of sight from nursing station**REGULATIONS**National Building Code of Canada (2005)  
Alberta Building Code (2006)**REFERENCES AND  
GUIDELINES**Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
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Date | **December 2014**Reference Number | **A-12**  
Department | **Ambulatory Care**  
Room Name | **EEG Room**  
Page | **1 of 4****PLANNING ASSUMPTIONS**

PATIENT CARE PHILOSOPHY      Medical and nursing care: focused on assessment and procedure.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:**

Electroencephalography room

**DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	1	1		3

**KEY INFECTION  
CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius  
 Routine practices and additional precautions  
 FFE-mask, eye protection and glove box dispenser (wall mounted)  
 Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow for access to the right hand side of the patient.

**Ceiling Height**

Floor to ceiling – 2.4m minimum

**Equipment Maneuverability**

Provide door size and allow room for medical mobile carts on one side of bed, and stretcher access into room.

AREA

NET AREA  
**14.5 nsm**

Date | **December 2014**Reference Number | **A-12**  
Department | **Ambulatory Care**  
Room Name | **EEG Room**  
Page | **2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Privacy Curtain	1	Out of splash radius
Wall Mounted		
Headwall	1	Medical gases, power
Hand washing station	1	
Floor Mounted		
EEG lead cabinet	1	

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient stretcher	1	
EEG machine	1	
Linen hamper	1	
Waste receptacle	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Guest chair	1	For family
Computer/charting station	1	
Step stool	1	
Task chair	1	
Work counter	1	With upper shelving for linen



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Reference Number

**A-12**

Department

**Ambulatory Care**

Room Name

**EEG Room**

Page

**3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONS

Does not allow for stretcher access

KEY ROOM  
ADJACENCIES

DESIGN FLEXIBILITY

REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINES

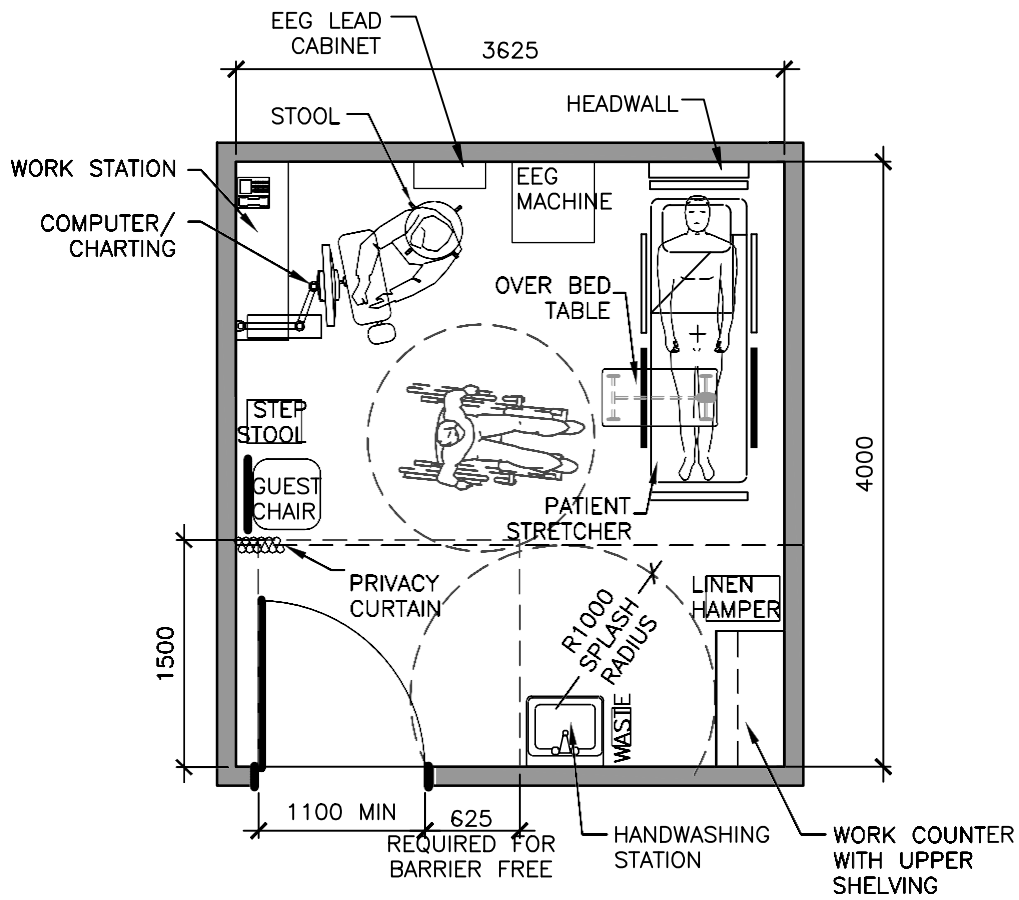
Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
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 AIA Guidelines for Design and Construction of Health Care Facilities (2010)  
 PIDAC-Provincial Infectious Diseases Advisory Committee  
 AHS Infection Prevention and Control - Health Care Facility Design Guidelines and Preventive Measures for Construction, Renovation and Maintenance Activities, May 2013.  
 CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.

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**Ambulatory Care**  
**EEG ROOM**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



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Department | **Ambulatory Care**  
Room Name | **PULMONARY FUNCTION  
TREATMENT ROOM**  
Page | **1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Clinical Support: focused on family and patient-centered diagnosis, assessment and treatment.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2	1		4

**KEY INFECTION  
CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius.  
Routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS**

**Room Components**  
Body plethysmograph cabinet and pulmonary function testing computer.

**Ceiling Height**  
Floor to ceiling – 2.4m minimum

**Equipment Maneuverability**

AREA

NET AREA  
**12 nsm**

Date | **December 2014**Reference Number | **A-13**  
Department | **Ambulatory Care**  
Room Name | **PULMONARY FUNCTION  
TREATMENT ROOM**  
Page | **2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Privacy curtain	1	Out of splash radius
Wall Mounted		
Headwall*	1	Medical gases, power
Hand washing station	1	
Floor Mounted		

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Scale	1	
Waste receptacle	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Guest chair	1	
Computer/charting station	1	
Work station	1	With upper shelving
Task chair	1	
C- Locker	1	
Under-counter fridge	1	
Body plethysmograph	1	

Date | **December 2014**

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Department

**Ambulatory Care**

Room Name

**PULMONARY FUNCTION  
TREATMENT ROOM**

Page

**3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONSKEY ROOM  
ADJACENCIES

DESIGN FLEXIBILITY

**REGULATIONS**National Building Code of Canada (2005)  
Alberta Building Code (2006)**REFERENCES AND  
GUIDELINES**

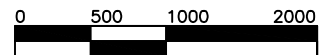
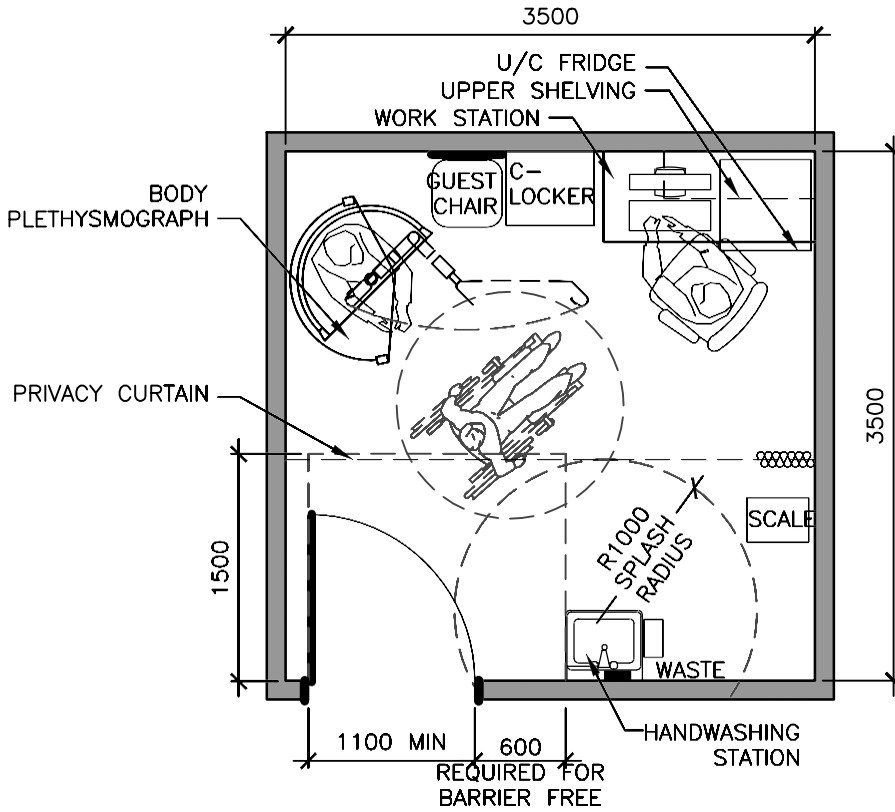
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**PULMONARY FUNCTION**  
**TREATMENT ROOM**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | December 2014

Reference Number  
Department  
Room Name  
PageB-1  
Emergency Department  
UNIVERSAL TREATMENT SPACE  
1 of 4**PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Interdisciplinary medical and nursing care: focused on family centered care, primary assessment, diagnosis, and treatment. Flexible for a range of acuity levels.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2*	2		5

\*4-5 people during code

As acuity and number of staff increase, family numbers decrease

**KEY INFECTION  
CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius  
Routine practices and additional precautions,  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Centre stretcher in treatment space to allow for access from both sides. Allow for minimum 900mm clearance on each side of stretcher.

Partitions or single rooms separating patients from one another; Multi-treatment spaces - minimum 2m on either side of bed or treatment chair  
During a code, 900mm minimum clearance around stretcher on all 4 sides required.

**Ceiling Height**

Floor to ceiling – 2.7m Minimum

**Equipment Maneuverability**

Allow room for medical mobile carts on either side of bed.

AREA

NET AREA  
12 nsm

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Department  
Room Name  
Page**B-1**  
**Emergency Department**  
**UNIVERSAL TREATMENT SPACE**  
**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Privacy curtain	1	
Exam light	1	Surgical/exam lights
Wall Mounted		
Hand washing station	1	
Headwall	1	Medical gases, power (2 sets)
Bed bumper	1	
Physiological monitor	1	
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient stretcher	1	
Mobile diagnostic	1	Ultrasound, ECG, telehealth, xray, moved in and out as required
Linen hamper	1	
IV stand/pump	1	
Mobile patient lift	1	Moved in and out as required
Waste receptacle	1	
Procedure cart	2	
Crash cart	1	In alcove outside of room
Mayo stand	1	
IV cart	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Guest chair	2	For family
Computer/charting station	1	Mobile workstation moves in and out of room as necessary
Stool	1	



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Reference Number

Department

Room Name

Page

**B-1****Emergency Department****UNIVERSAL TREATMENT SPACE****3 of 4****DESIGN CONSIDERATIONS****CLINICAL  
ASSUMPTIONS**

Allow for stretcher access  
Decentralized supplies and equipment nearby

**KEY ROOM  
ADJACENCIES**

Washrooms  
Crash cart alcove  
Nurse station

**DESIGN FLEXIBILITY**

Capacity for dialysis  
Room must be multi-purpose to accommodate a wide range of cases and acuties  
Treatment space can be divided by full-height walls or curtains

**REGULATIONS**

National Building Code of Canada (2005)  
Alberta Building Code (2006)

**REFERENCES AND  
GUIDELINES**

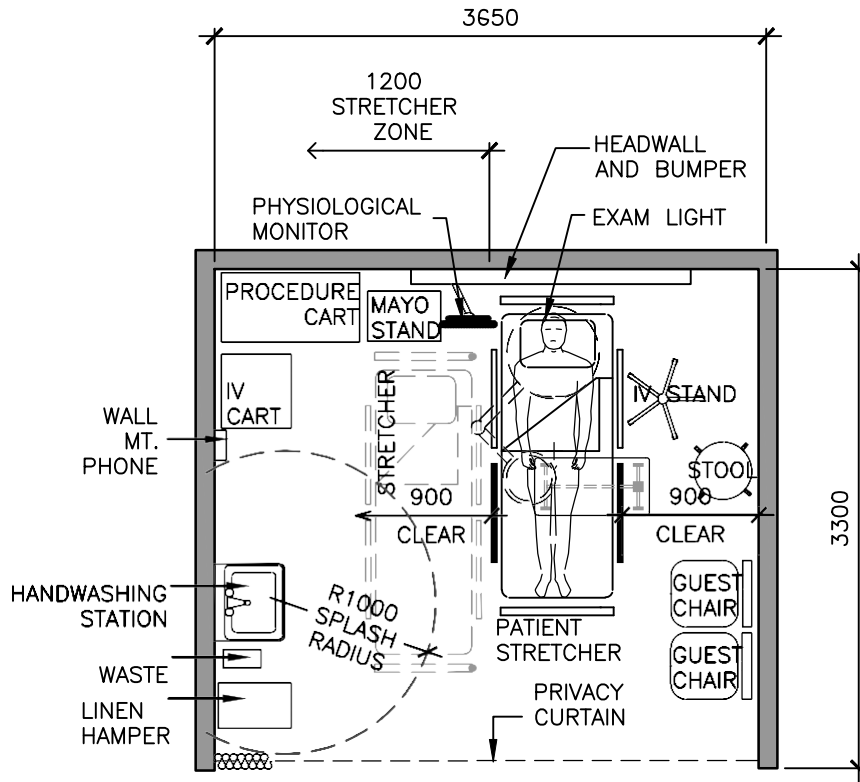
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**Emergency Department**  
**UNIVERSAL TREATMENT SPACE**  
**4 of 5**

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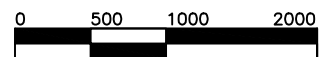
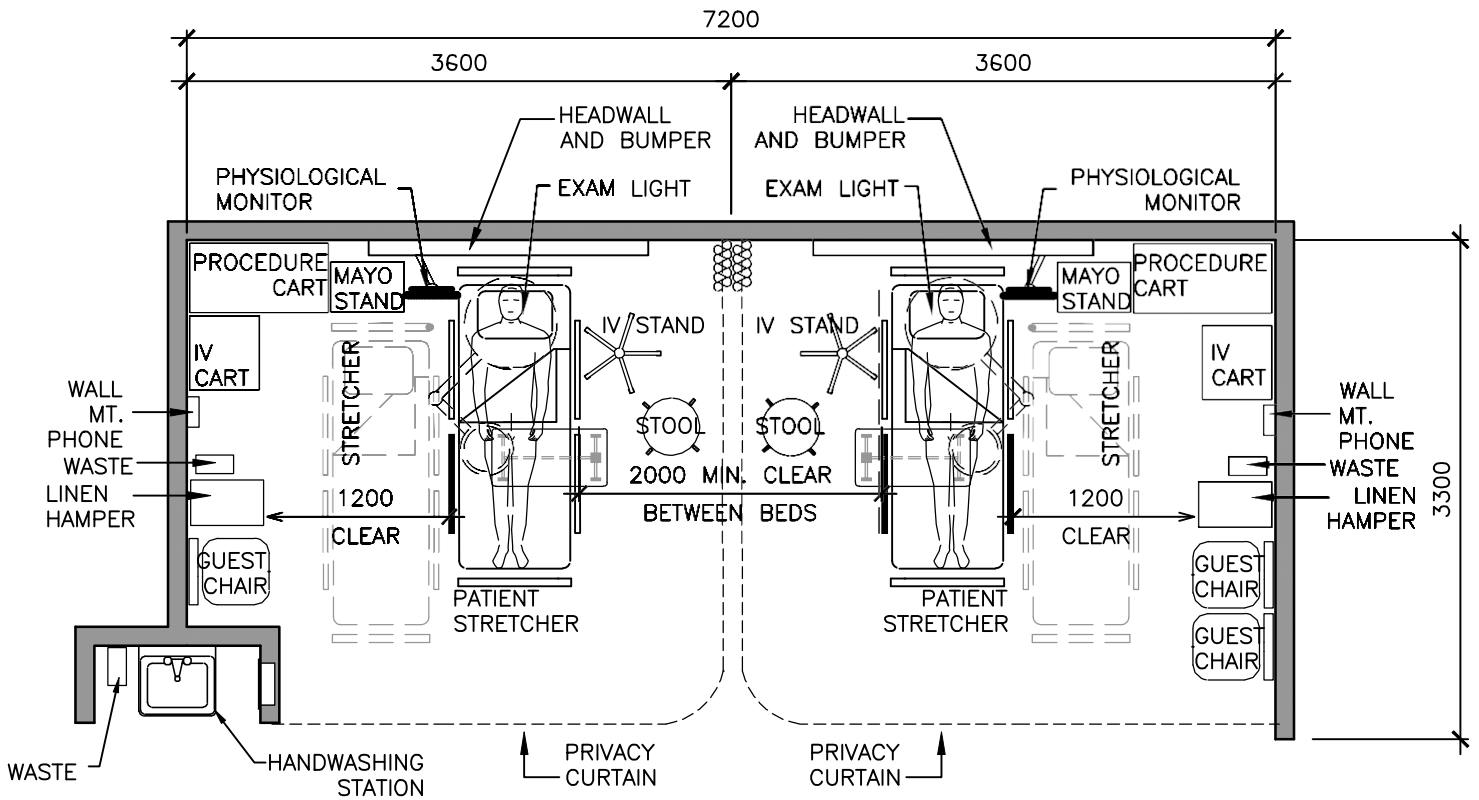


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**Emergency Department**  
**UNIVERSAL TREATMENT SPACE**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





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Reference Number

**B-2**

Department

**Emergency Department**

Room Name

**AIRBORNE ISOLATION ROOM**

Page

**1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY**

Medical and nursing care: focused on family centered care, primary assessment, diagnosis, and treatment. Flexible for a range of acuity levels

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:**

Isolation space

**DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	1	1		3

**KEY INFECTION  
CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, contactisolation, airborne isolation, anteroom  
 Routine practices and additional precautions  
 FFE-mask, eye protection and glove box dispenser (wall mounted)  
 Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Center stretcher in treatment space to allow for access from bothsides.  
 Allow for minimum 900mm clearance on each side of stretcher.  
 Provide space for hand wash sink, isolation supplies cart and waste within anteroom.

**Ceiling Height**

Floor to ceiling – 2.4m minimum

**Equipment Maneuverability**

Allow room for medical mobile carts/equipment on either side of bed.

**AREA**

NET AREA  
**24 nsm**  
(incl. anteroom & WC)

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Reference Number

**B-2**

Department

**Emergency Department**

Room Name

**AIRBORNE ISOLATION ROOM**

Page

**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Privacy curtain	1	
Wall Mounted		
Hand washing station	3	1 in anteroom, 1 in isolation room, 1 in patient washroom
Headwall	1	Medical gases, power
Bed bumper	1	
Vital signs monitor	1	
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient stretcher	1	
Mobile diagnostic	1	Ultrasound, ECG, telehealth, xray, moved in and out as required
Over bed table	1	
Waste receptacle	3	1 in isolation room, 1 in ante room, 1 in patient washroom
Linen hamper	2	1 in isolation room and 1 in alcove
IV stand/pump	1	
IV cart	1	
Portable patient lift	1	Moved in and out as required
Commode chair	1	To be moved in and out as necessary
Crash cart	1	Alcove outside of room
Mayo stand	1	
Isolation supplies cart	1	In Ante Room

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Guest chair	1	For family
Computer/charting station	1	Mobile workstation
Supplies shelving	2	Upper shelving, In anteroom and patient washroom

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Department

**Emergency Department**

Room Name

**AIRBORNE ISOLATION ROOM**

Page

**3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONSKEY ROOM  
ADJACENCIESAnteroom  
Crash cart alcove  
Patient washroom

DESIGN FLEXIBILITY

REGULATIONS

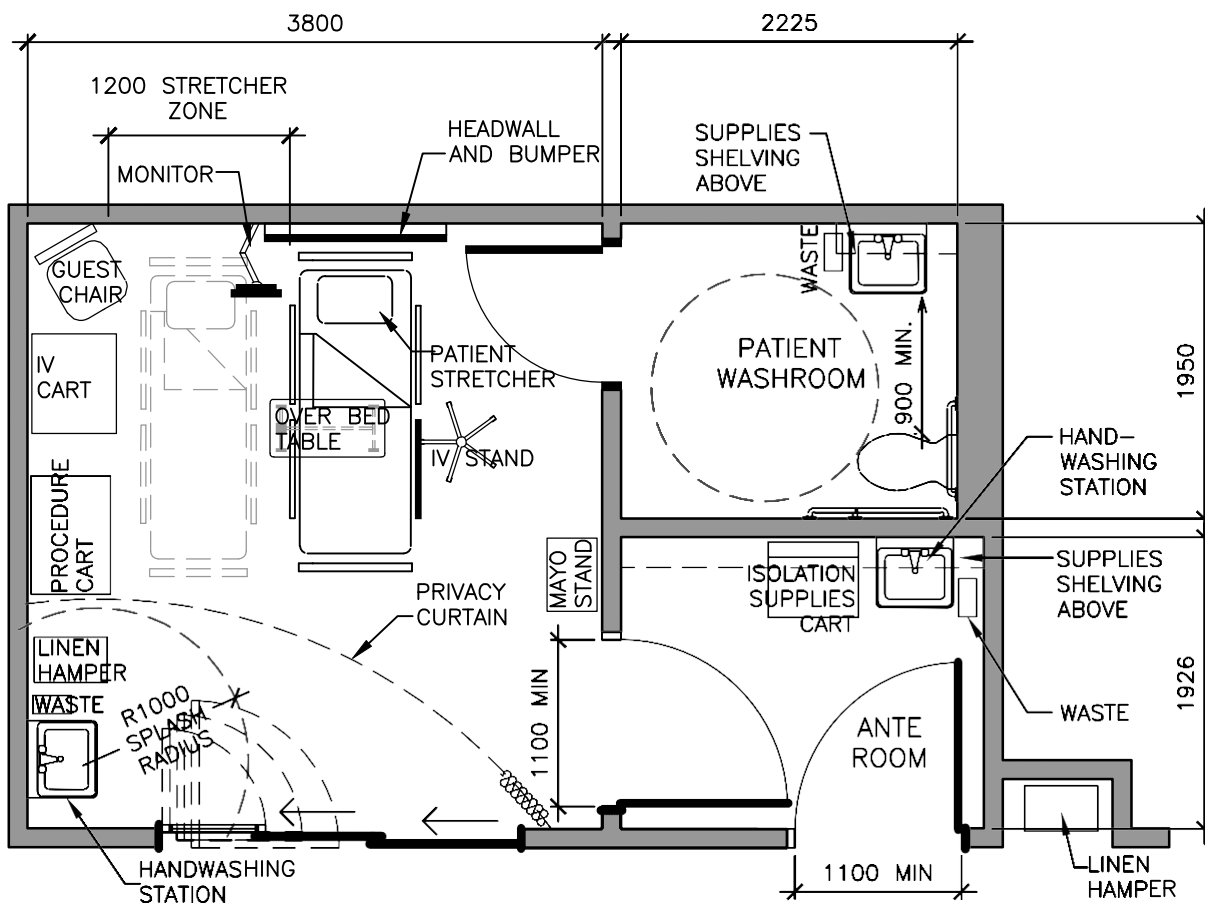
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**Emergency Department**  
**AIRBORNE ISOLATION ROOM**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





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**B-3**  
**Emergency Department**  
**RESUSCITATION/TRAUMA ROOM**  
**1 of 4**

**PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY**      Emergency care resuscitation/trauma: focused on emergency care, life saving and patient stabilization for transfer. Staff, family and patient safety. Adult and pediatric patient care.

**KEY FUNCTIONS**

- Assessment
- Clinical diagnostics
- Conference
- Documentation/Charting
- Examination
- Patient/Family Consultation
- Observation/Monitoring
- Research
- Teaching
- Major Treatment/Procedure
- Minor Treatment/Procedure
- Multidisciplinary

**Comments /Other:**

**DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	8	1-2		10-11

As acuity increases staff numbers increase, family numbers decrease.

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius  
Routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS**

**Room Components**  
Allow access on all sides of stretcher  
Allow for 1800mm staff work area around all 4 sides of stretcher  
**Ceiling Height**  
Floor to ceiling – 3.0m minimum to allow for ceiling mounted service column/ surgical lights – to be verified by equipment vendor.  
**Equipment Maneuverability**  
Allow room for emergency and medical mobile equipment and carts on either side of stretcher.  
Allow for ventilator at head of patient stretcher, as well as patient service column  
Provide storage space around perimeter for emergency supply carts and equipment

AREA

NET AREA  
**33 nsm**

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Department

Room Name

Page

**B-3****Emergency Department****RESUSCITATION/TRAUMA ROOM****2 of 4****EQUIPMENT/SERVICES**

## FIXED SERVICES

Ceiling Mounted	Qty.	Remarks
Service column*	1	Medical gases, power (floor mounted) with monitor
X-ray*	1	Overhead equipment (optional – would increase roomsize)
Exam Light	1	Surgical/exam lights
Wall Mounted		
Scrub sink	1	Scrub alcove inside room
PACS monitor	1	
Floor Mounted		

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Resuscitation stretcher	1	X-ray compatible with weigh scale preferred
Crash cart	1	
DAM cart		
Supply cart	1	Allow for multiple supply carts
Mobile diagnostic equipment	1	Ultrasound, ECG, moved in and out as required
Mayo stand	1	
IV stand	1	
Kick bucket	1	
Procedure cart	1	
Case cart	1	
Back table	1	
Linen hamper	1	
Ventilator	1	
Waste receptacle	2	
Portable patient lift	1	Moved in and out as required
Invasive cart	1	
Medication cart	1	
Floor sharps container	2	

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Reference Number

**B-3**

Department

**Emergency Department**

Room Name

**RESUSCITATION/TRAUMA ROOM**

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**3 of 4**

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Computer /charting station	1	Mobile workstation
Task chair	1	
Stools	2	
Work station	1	

**DESIGN CONSIDERATIONS**

## CLINICAL

No overhead radiology shown in layout

## ASSUMPTIONS

## KEY ROOM

Scrub alcove

## ADJACENCIES

## DESIGN FLEXIBILITY

Full height walls could be substituted with curtained partitions.  
Optional built-in x-ray equipment would affect room area depending on the type of system installed.  
Accommodates pediatric patients and associated equipment

## REGULATIONS

National Building Code of Canada (2005)

Alberta Building Code (2006)

REFERENCES AND  
GUIDELINES

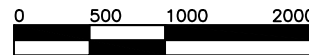
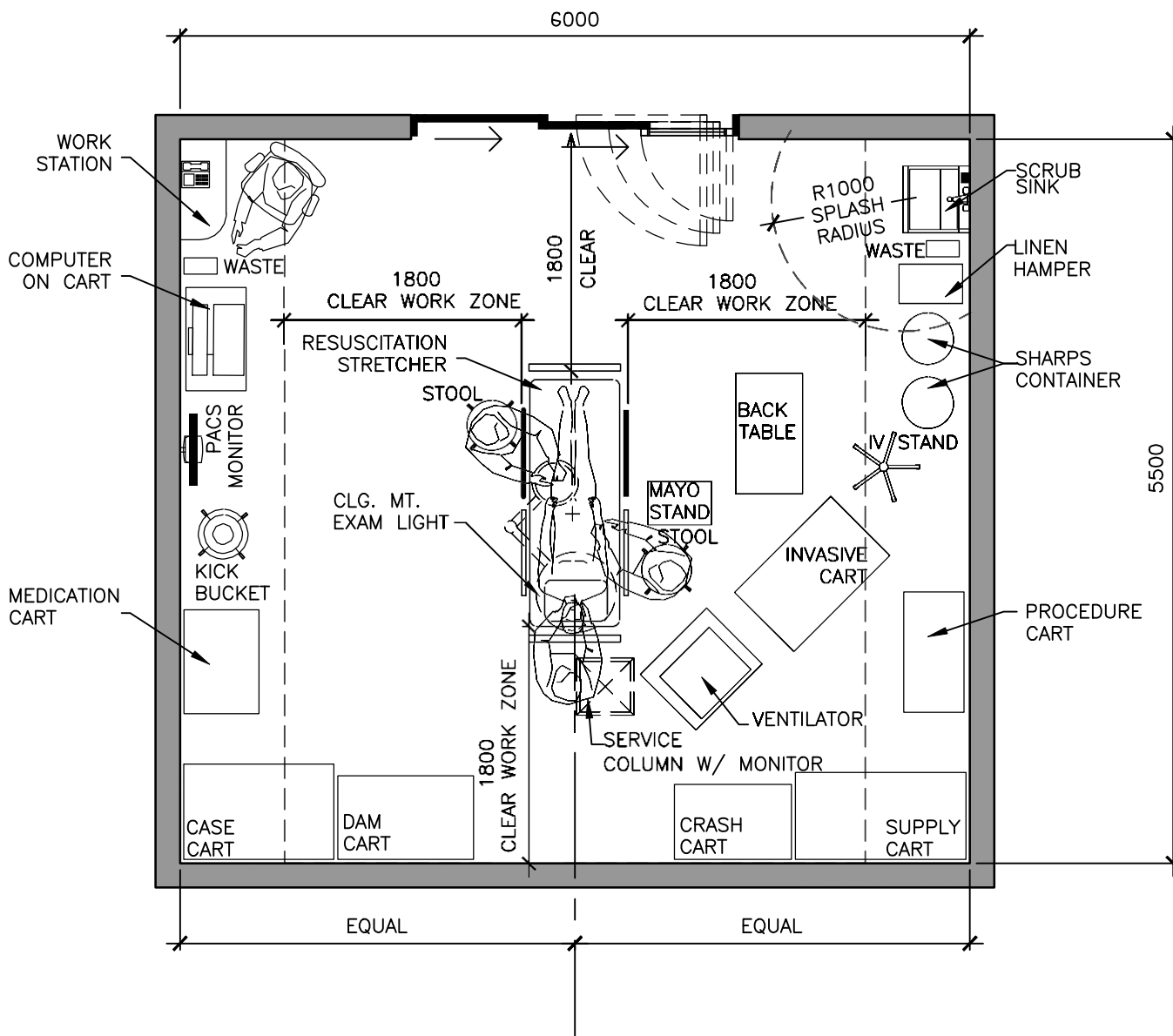
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**Emergency Department**  
**RESUSCITATION/TRAUMA ROOM**  
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Date | **December 2014**Reference Number  
Department  
Room Name  
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**Emergency Department**  
**MENTAL HEALTH ROOM**  
**1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY**      Psychiatric care and mental health assessment.  
Secure holding patients.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2*	0		3

\*Does not include security guard

**KEY INFECTION  
CONTROL PROTOCOLS**

Hand washing station (outside of the room)  
Routine practices and additional precautions.  
Alcohol based hand solution outside of room

**KEY DIMENSIONS****Room Components**

Allow for fixed bed.

**Ceiling Height**

Floor to ceiling – 2.4m minimum

**Equipment Maneuverability**

Allow for patient transfer to stretcher from one side of bed.

AREA

NET AREA  
**11 nsm**

Date | **December 2014**

Reference Number | **B-4**  
 Department | **Emergency Department**  
 Room Name | **MENTAL HEALTH ROOM**  
 Page | **2 of 4**

**EQUIPMENT/SERVICES**

FIXED ELEMENTS

Category	Qty.	Remarks
<b>Ceiling Mounted</b>		
Observation camera	1	Tamper proof
<b>Wall Mounted</b>		
Headwall	1	Tamper proof secure head wall
<b>Floor Mounted</b>		
Fixed Bed	1	Tamper resistant (fastened to structure)
<b>Counter Mounted</b>		

MOBILE ELEMENTS

Type	Qty.	Remarks

FURNITURE & EQUIPMENT

Type	Qty.	Remarks

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**B-4**  
**Emergency Department**  
**MENTAL HEALTH ROOM**  
**3 of 4**

## DESIGN CONSIDERATIONS

### CLINICAL ASSUMPTIONS

Impact resistant window and doors  
Patient will be monitored continuously  
Remote release and monitoring for electronic hardware and patient room

### KEY ROOM ADJACENCIES

Security guard/ nursing station

### DESIGN FLEXIBILITY

### REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)

### REFERENCES AND GUIDELINES

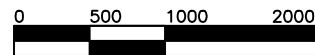
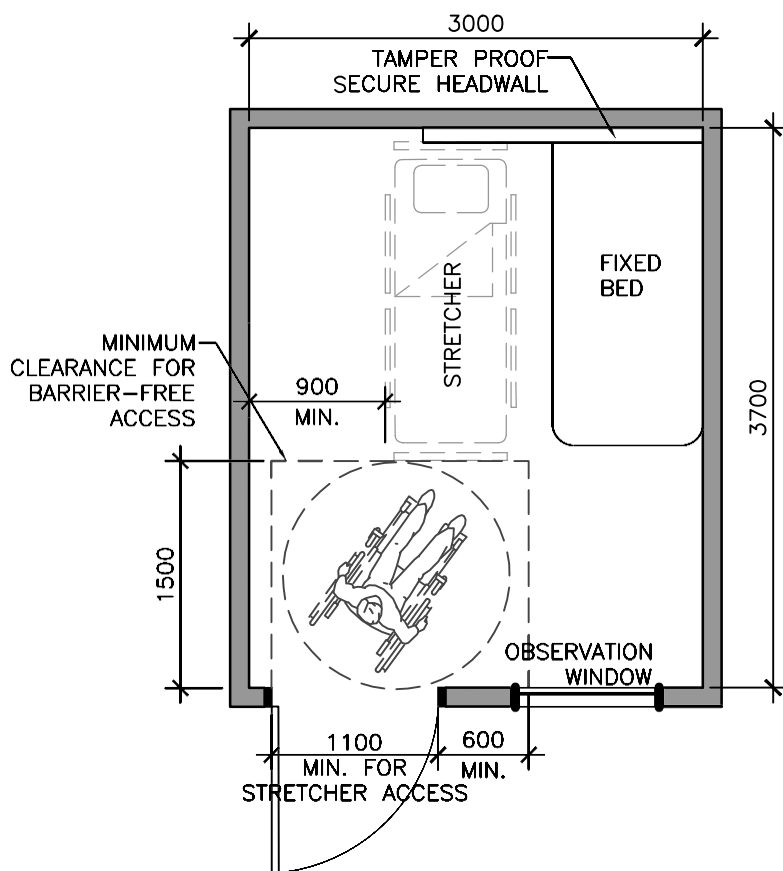
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CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.

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**Emergency Department**  
**MENTAL HEALTHROOM**  
**4 of 4**

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**C-1****Cardiology Services****ECG Room****1 of 4****PLANNING ASSUMPTIONS**

PATIENT CARE PHILOSOPHY      Medical care: focused on assessment.

## KEY FUNCTIONS

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:**

## DESIGN OCCUPANCY

Patient	Staff	Family	Other	Total
1	2	1		4

KEY INFECTION  
CONTROL PROTOCOLS

Hand washing station with 1000mm clear splash radius  
 Routine practices and additional precautions.  
 Alcohol based hand solution (wall mounted at point of care)

## KEY DIMENSIONS

**Room Components**

Allow for access to the right hand side of the patient.

**Ceiling Height**

Floor to ceiling – 2.4m minimum

**Equipment Maneuverability**

Allow room for medical carts and equipment along side of stretcher.

AREA

NET AREA  
**13.5 nsm**

Date | **December 2014**Reference Number | **C-1**  
Department | **Cardiology Services**  
Room Name | **ECG Room**  
Page | **2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Privacy curtain	1	Out of splash radius
Wall Mounted		
Hand washing station	1	
Headwall	1	
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient stretcher	1	
ECG machine	1	
Linen hamper	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Task chair	1	
Guest chair	1	
Computer/charting station	1	
Waste receptacle	1	
Work station	1	Counter with upper shelving

Date | **December 2014**

Reference Number

**C-1**

Department

**Cardiology Services**

Room Name

**ECG Room**

Page

**3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONS

Allow for stretcher access

KEY ROOM  
ADJACENCIES

Crash cart alcove

DESIGN FLEXIBILITY

REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINES

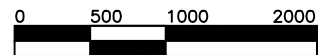
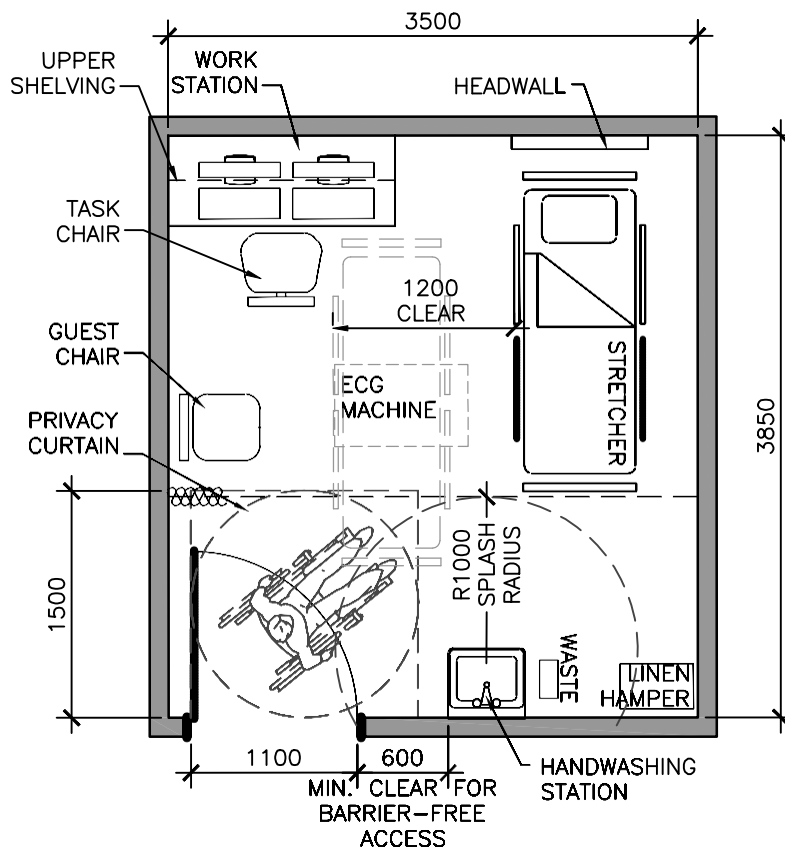
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**Cardiology Services**  
**ECG ROOM**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number  
Department  
Room Name  
Page**C-2**  
**Cardiology Services**  
**STRESS TESTING ROOM**  
**1 of 4****PLANNING ASSUMPTIONS**

PATIENT CARE PHILOSOPHY      Medical care: focused on assessment and treatment.

## KEY FUNCTIONS

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:**

## DESIGN OCCUPANCY

Patient	Staff	Family	Other	Total
1	2			3

KEY INFECTION  
CONTROL PROTOCOLSHand washing station with 1000mm clear splash radius  
Routine practices and additional precautions.  
Alcohol based hand solution (wall mounted at point of care)

## KEY DIMENSIONS

**Room Components**

Allow space along each side of treadmill and stretcher for patient and staff access.

**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

Allow room for movement of equipment, wheelchairs and stretchers.

AREA

NET AREA  
**22 nsm**

Date | **December 2014**

Reference Number

Department

Room Name

Page

**C-2****Cardiology Services****STRESS TESTING ROOM****2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Privacy curtain	1	
Wall Mounted		
Headwall	1	Medical gases, power
Hand washing station	1	In alcove outside room
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Stress test system with treadmill	1	
Crash cart	1	
Linen hamper	1	In alcove
Utility / supply cart	1	
Patient stretcher	1	
Waste receptacle	2	1 in stress testing room, 1 in hand washing alcove

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Chair	1	For patient
Computer/charting station	1	
Task chair	1	
Work station	1	Counter with upper shelving

Date | **December 2014**

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Department

Cardiology Services

Room Name

STRESS TESTING ROOM

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**DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONSKEY ROOM  
ADJACENCIES

Physician observation area, Hand washing alcove

DESIGN FLEXIBILITY

REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINES

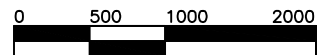
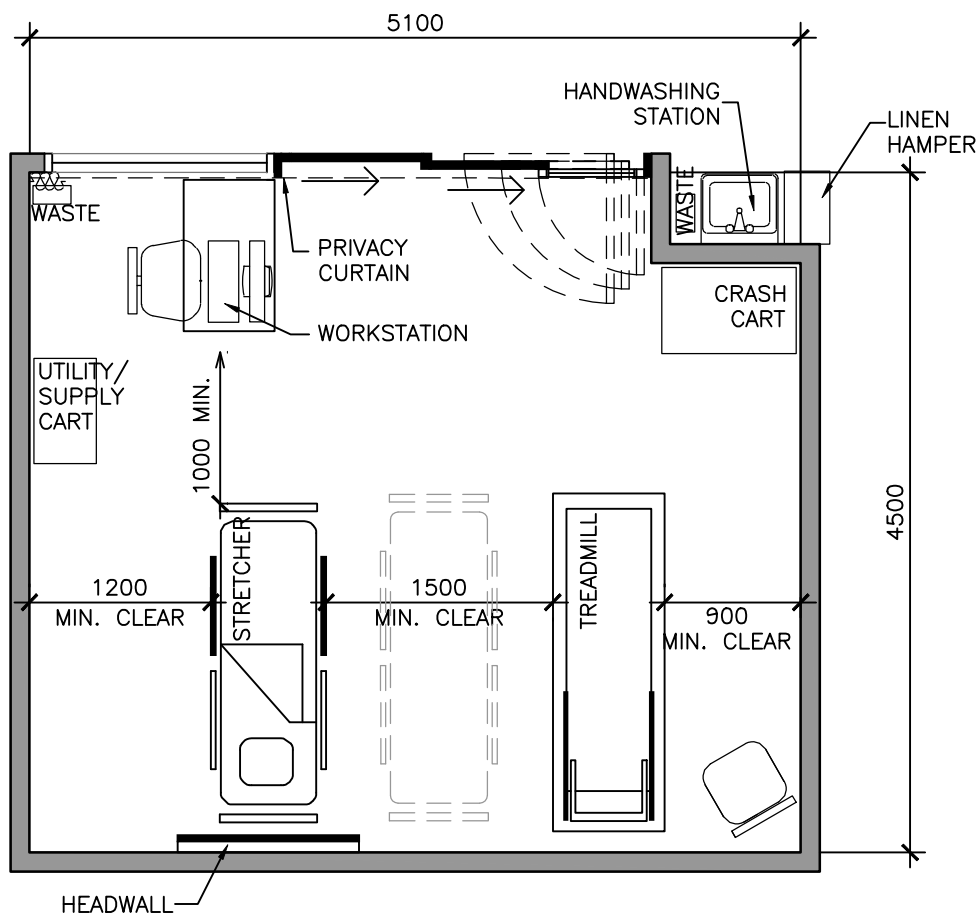
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**Cardiology Services**  
**STRESS TESTING ROOM**  
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Date | **December 2014**Reference Number  
Department  
Room Name  
Page**C-3**  
**Cardiology**  
**CATH Lab/Control/Equipment**  
**1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY** Acute care: cardiology. Single patient examination supported by special equipment, sedation physiological monitoring, supplies storage**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	1			2
0	4			4

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius  
 Routine practices and additional precautions,  
 FFE-mask, eye protection and glove box dispenser (wall mounted)  
 Sharps and alcohol based hand solution (wall mounted at point of care)  
 Hepafiltered air / min. air changes

**KEY DIMENSIONS****Room Components**

Patient zone is the angiography table.  
 Equipment zone is centered on and around the table (5mx 6.5m.) Components of the angiography system are located within this area mounted on the floor and ceiling. This area allows for table rotation.  
 Allow for 1.0m circulation zone area around equipment zone.  
 Allow for perimeter supply storage

**Ceiling Height**

Floor to ceiling - as required by equipment vendor

**Equipment Maneuverability**

Allow for patient transfer from stretcher to one side of patient table.  
 Allow room for mobile carts.

AREA

NET AREA  
**70 nsm**  
(incl. Support)

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Department  
Room Name  
Page**C-3**  
**Cardiology**  
**CATH Lab/Control/Equipment**  
**2 of 4****EQUIPMENT/SERVICES - CATH. Lab**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Angiography equipment	1	Can also be a floor mounted system
Contrast media injector	1	
Service column	1	Retractable
Display monitors	1	
Wall Mounted		
Catheter cabinets	4	Option as mobile elements
Integration cabinet	1	Controls for integration system in Equipment Room
Utility sink	1	
Work counter	1	
Floor Mounted		
Angiography Table	1	Fixed Location
Blanket warmer	1	Counter-top
Pharmacy fridge	1	Under counter

## MOBILE ELEMENTS

Type	Qty.	Remarks
Back table	1	
Kick bucket	1	
Anesthesia machine	1	
Anesthesia cart	1	
Crash cart	1	
Utility cart	1	
Shield	1	
Mayo stand	1	
Waste receptacle	1	
Bio-hazard waste receptacle	1	
Linen hamper	1	
Instrument table	1	
Oxygen structure equipment	1	
IABP	1	
ACT	1	
Cardiac output equipment	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Exam stool	1	
Task chair	1	

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Department | **Cardiology**  
Room Name | **CATH Lab/Control/Equipment**  
Page | **3 of 4****EQUIPMENT/SERVICES - Control Room**

## FIXED ELEMENTS

Counter top	Qty.	Remarks
Angiography control equipment		Countertop mounted

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Task chairs	4	2 @ system controls, 1 @ workstation, 1@PACS
Waste receptacle	1	
Work counter	1	

**DESIGN CONSIDERATIONS**

CLINICAL ASSUMPTIONS | Space accommodate bi-plane angio unit

KEY ROOM ADJACENCIES | Control room  
Equipment room (optional)  
Scrub area  
Crash cart alcove  
Medical cart alcove

## DESIGN FLEXIBILITY

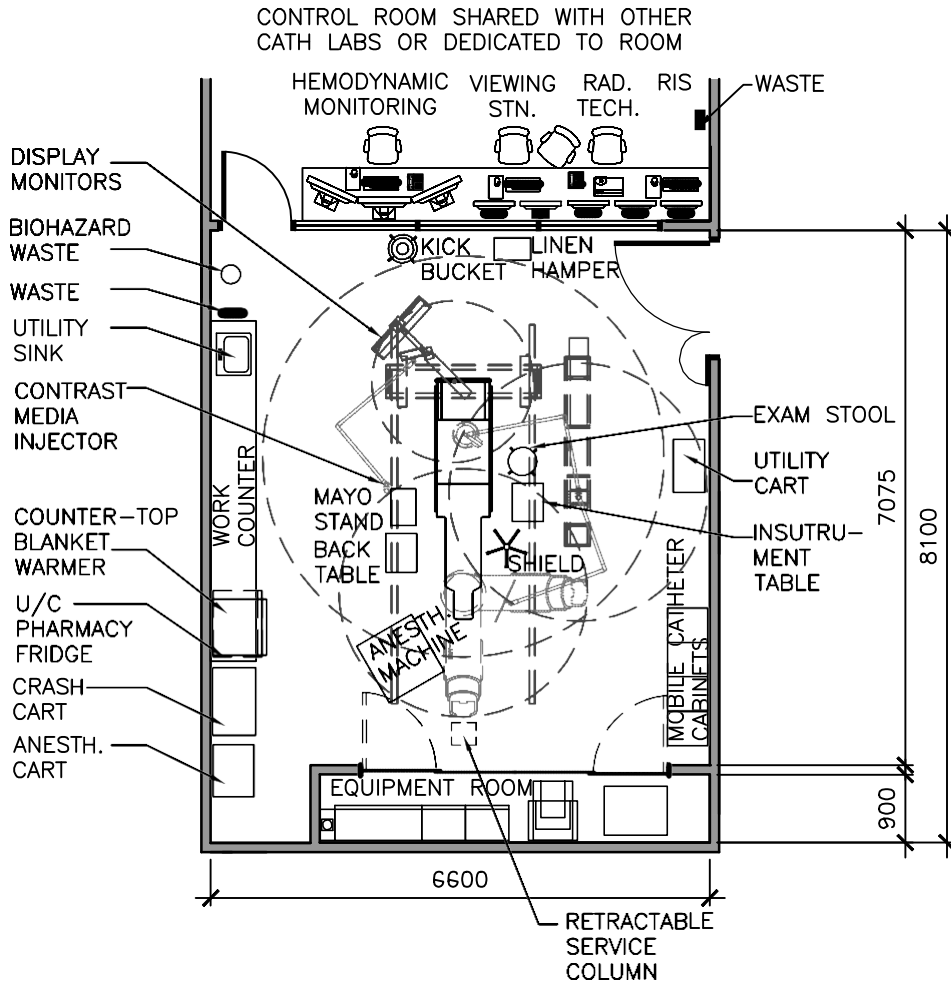
REGULATIONS | National Building Code of Canada (2005)  
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**Cardiology Services**  
**CATH LAB/CONTROL ROOM**  
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D-1

Department

PARR

Room Name

PATIENT POST ANAESTHESIA  
RECOVERY

Page

1 of 4

**PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY**

Medical and nursing care: recovery observation from surgical procedures.  
Patient and family centered care.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2	1		3

**KEY INFECTION  
CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius  
Routine practices and additional precautions.  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Patient zone 1m x 2.4m (patient stretcher)

Work and family zone 1200mm clear on both sides of stretcher

Minimum 2m separation between patients (beds).

Allow for access to patient's head for airway management. Ventilator access and intubation to occur in an emergency

**Ceiling Height**

Floor to ceiling – 2.7m minimum.

3m minimum for ceiling column.

**Equipment Maneuverability**

Allow room to maneuver stretcher into position.

Allow room for medical mobile carts/equipment on either side of stretcher.

AREA

NET AREA  
10 nsm

Date | December 2014

Reference Number

Department

Room Name

D-1

PARR

PATIENT POST ANAESTHESIA

RECOVERY

Page

2 of 4

**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Service column*	1	Medical gases, power; in 'head-out' model
Privacy curtain*	1	
IV track*	1	
Wall Mounted		
Hand washing station	1	1 sink per 4 bays
Headwall*	1	Medical gases, power for head-in model
Bed bumper	1	
Physiological monitor	1	Can be on service column
Computer monitor*	1	Patient care information (could be part of mobile charting station)
Floor Mounted		
Patient storage	1	In 'head-in' model

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient stretcher	2	
Resuscitation cart	1	In area
Charting station	1	In area
Crash cart	1	In area
Linen hamper	1	In 'head-in' model
Waste receptacle	1	In 'head-in' model
Over bed table	2	1 in 'head-out' model, 1 in 'head-in' model
Fridge*	1	In area
Warming cabinet*	1	In area

\*optional

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Stool	1	For staff charting and observation
Chair	1	For family; 1 for 'head-out' model, 1 for 'head-in' model
Computer/charting station	1	Mobile workstation

Date | **December 2014**Reference Number  
Department  
Room Name**D-1  
PARR  
PATIENT POST ANAESTHESIA  
RECOVERY**Page | **3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONSKEY ROOM  
ADJACENCIESHand washing station  
Crash care in alcove

## DESIGN FLEXIBILITY

Accommodate either the 'head-in' or 'head-out' model

## REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINES

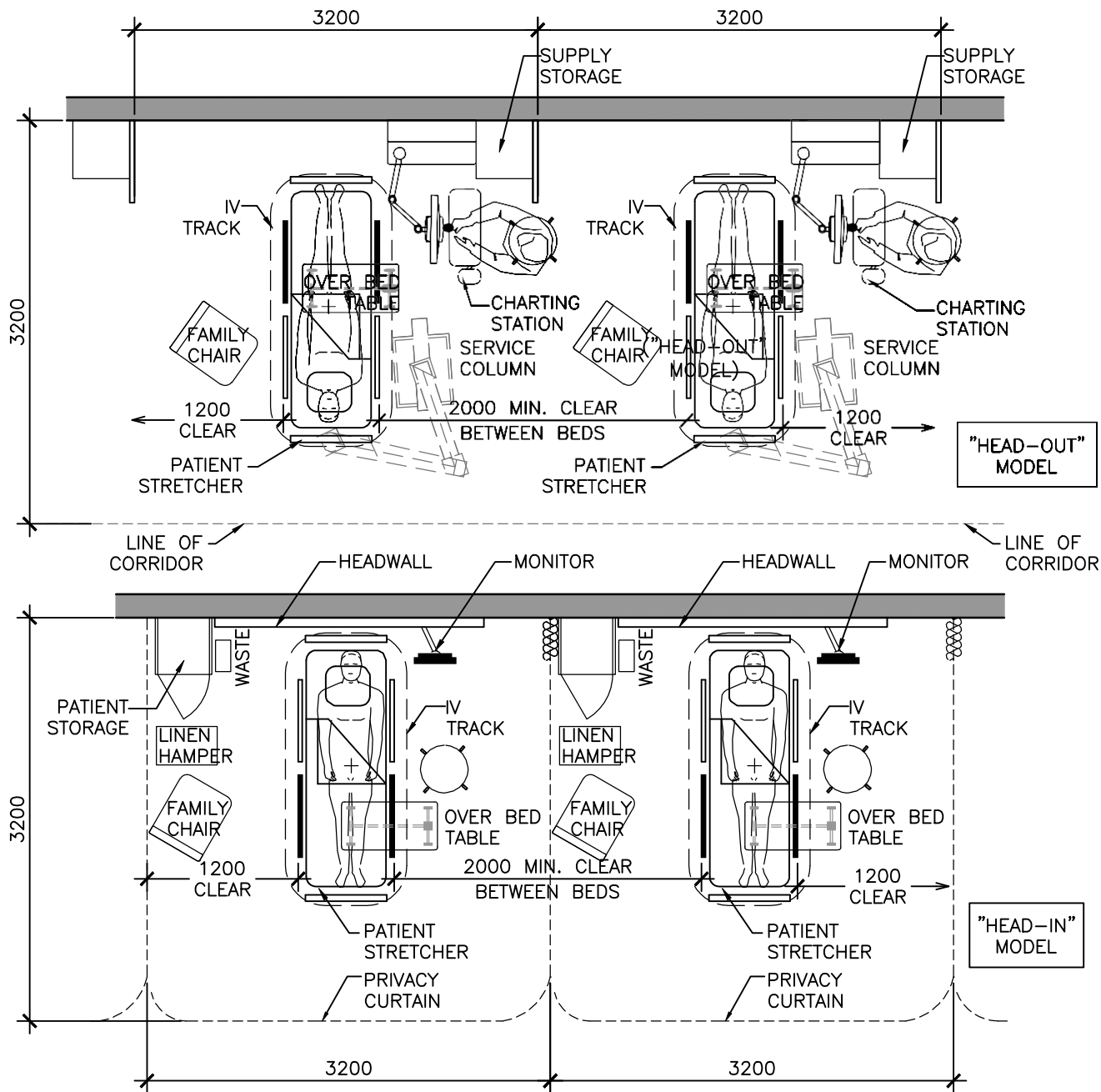
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Reference Number  
Department  
Room Name  
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**D-1**  
**PARR**  
**PATIENT POST ANAESTHESIA RECOVERY**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





Date | **December 2014**Reference Number | **D-2**  
Department | **PARR**  
Room Name | **ISOLATION ROOM**  
Page | **1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY** Medical and nursing care: recovery from surgical procedures requiring single patient isolation. Patient and family centered care.**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2	0		3

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius  
 Contact Isolation, droplet Isolation, airborne isolation  
 Routine practices and additional precautions  
 Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Patient zone 1m x 2m (patient stretcher)  
 Allow 1.5m perimeter around patient stretcher for care zone.  
 Allow for access to patient's head for airway management. Ventilator access and intubation to occur in an emergency

**Ceiling Height**

Floor to ceiling – 2.7m minimum.  
 3m minimum for ceiling mounted service column.

**Equipment Maneuverability**

Allow room to maneuver stretcher into position.  
 Allow room for medical mobile carts/equipment on either side of stretcher.

AREA

NET AREA  
**21.5 nsm (incl. WC)**

Date | **December 2014**Reference Number | **D-2**  
Department | **PARR**  
Room Name | **ISOLATION ROOM**  
Page | **2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Service column*	1	Medical gases, power
Wall Mounted		
Hand washing station	1	
Headwall*	1	Medical gases, power
Bed bumper	1	
Physiological monitor	1	
Computer monitor*	1	Patient care information
Floor Mounted		
Service column*	1	Medical gases, power

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient stretcher	1	
Linen hamper	1	Outside of room
Waste receptacle	1	
Over bed table	1	
IV stand	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Stool	1	For staff charting and observation
Guest chair	2	For family; in isolation room
Computer/charting station	1	
Bedside cabinet	1	
Patient storage	1	

Date | **December 2014**Reference Number | **D-2**  
Department | **PARR**  
Room Name | **ISOLATION ROOM**  
Page | **3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONS

KEY ROOM ADJACENCIES | Crash cart alcove

DESIGN FLEXIBILITY | Can be used as either pre or post surgery patient area

REGULATIONS | National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINES

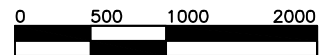
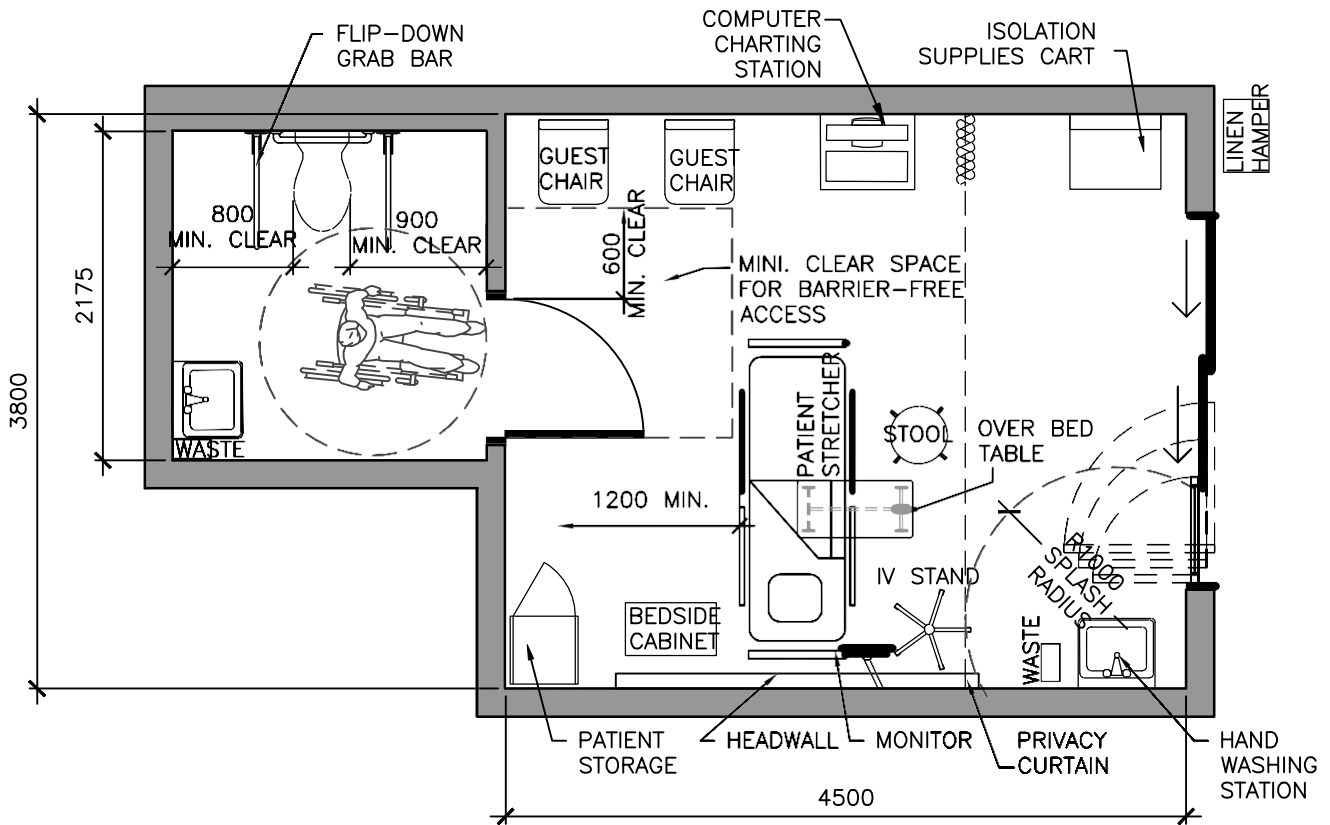
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**PARR**  
**ISOLATION ROOM**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number | **D-3**  
Department | **PARR**  
Room Name | **PRE-OP HOLDING**  
Page | **1 of 4****PLANNING ASSUMPTIONS**

PATIENT CARE PHILOSOPHY      Medical and nursing care: surgical preparation.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:**

Single patient area, medical consent

**DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2	1		3

**KEY INFECTION  
CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius  
 Routine practices and additional precautions.  
 FFE-mask, eye protection and glove box dispenser (wall mounted).  
 Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Patient zone 1m x 2m (patient stretcher or patient recliner)  
 Patient zone 2500mm X 2000mm (patient wheelchair)

**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

Allow sufficient space to maneuver stretcher into position.  
 Allow room for medical mobile carts/equipment on either side of stretcher.

AREA

NET AREA  
**5 nsm (Wheelchair)**  
**9 nsm (Stretcher)**

Date | **December 2014**Reference Number | **D-3**  
Department | **PARR**  
Room Name | **PRE-OP HOLDING**  
Page | **2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Privacy curtains	1	
Wall Mounted		
Hand washing station	1	1 per 4 bays.
Headwall	1	Medical gases, power
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Stretcher	1	
IV stand	2	
Crash cart	1	In alcove

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Computer/charting station	1	Shared
Patient recliner	1	As required for ambulatory patients
Chair	1	For family, as required
Stool	2	For Physician, as required

Date | **December 2014**

Reference Number | **D-3**  
 Department | **PARR**  
 Room Name | **PRE-OP HOLDING**  
 Page | **3 of 4**

**DESIGN CONSIDERATIONS**

CLINICAL  
ASSUMPTIONS

KEY ROOM ADJACENCIES | Patient washroom  
Crash cart alcove

DESIGN FLEXIBILITY | If designated to be used for PACU overflow capacity, then PACU standard to be used.

REGULATIONS | National Building Code of Canada (2005)  
Alberta Building Code (2006)

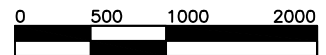
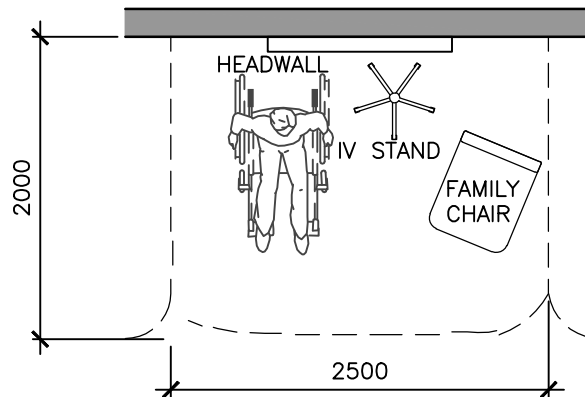
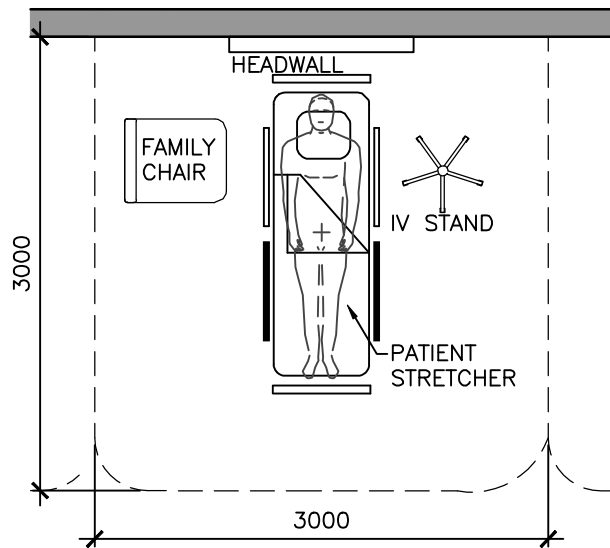
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**PARR**  
**PRE-OP HOLDING**  
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Reference Number

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Room Name

Page

**D-4****PARR****PRE- OP HOLDING ISOLATION  
ROOM****1 of 4****PLANNING ASSUMPTIONS**

PATIENT CARE PHILOSOPHY      Medical and nursing care: recovery from surgical procedures.

## KEY FUNCTIONS

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:**

Single patient isolation, supplies storage, respiratory services

## DESIGN OCCUPANCY

Patient	Staff	Family	Other	Total
1	2	0		3

KEY INFECTION  
CONTROL PROTOCOLS

Hand washing station, contact Isolation, droplet Isolation, airborne isolation, anteroom  
 Routine practices and additional precautions  
 Sharps and alcohol based hand solution (wall mounted at point of care)

## KEY DIMENSIONS

**Room Components**

Patient zone 1m x 2m (patient stretcher)

Allow 1.5m perimeter around patient stretcher for care zone.

Allow for access to patient's head for airway management. Ventilator access and intubation to occur in an emergency

**Ceiling Height**

Floor to ceiling – 2.7m minimum

3m minimum for ceiling mounted service column.

**Equipment Maneuverability**

Allow room to maneuver stretcher into position.

Allow room for medical mobile carts/equipment on either side of stretcher.

AREA

NET AREA  
**21.5 nsm (incl. WC)**

Date | **December 2014**

Reference Number

Department

Room Name

**D-4****PARR****PRE- OP HOLDING ISOLATION  
ROOM**

Page

**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Service column*	1	Medical gases, power
Wall Mounted		
Hand washing station	1	
Headwall*	1	Medical gases, power
Bed bumper	1	
Physiological monitor	1	
Computer monitor*	1	Patient care information
Grab bar		
Floor Mounted		
Service column*	1	Medical gases, power

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient stretcher	1	
Linen hamper	1	Outside of room
Waste receptacle	2	1 in isolation room, 1 in washroom
Over bed table	1	
IV stand	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Stool	1	For staff charting and observation
Guest chair	2	For family; in isolation room
Computer/charting station	1	
Bedside cabinet	1	
Patient storage	1	

Date | **December 2014**

Reference Number  
Department  
Room Name

**D-4  
PARR  
PRE- OP HOLDING ISOLATION  
ROOM**

Page | **3 of 4**

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONS

KEY ROOM  
ADJACENCIES

Ante room  
Patient washroom  
Nursing station  
Crush cart alcove

DESIGN FLEXIBILITY

REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)

REFERENCES AND  
GUIDELINES

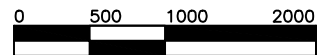
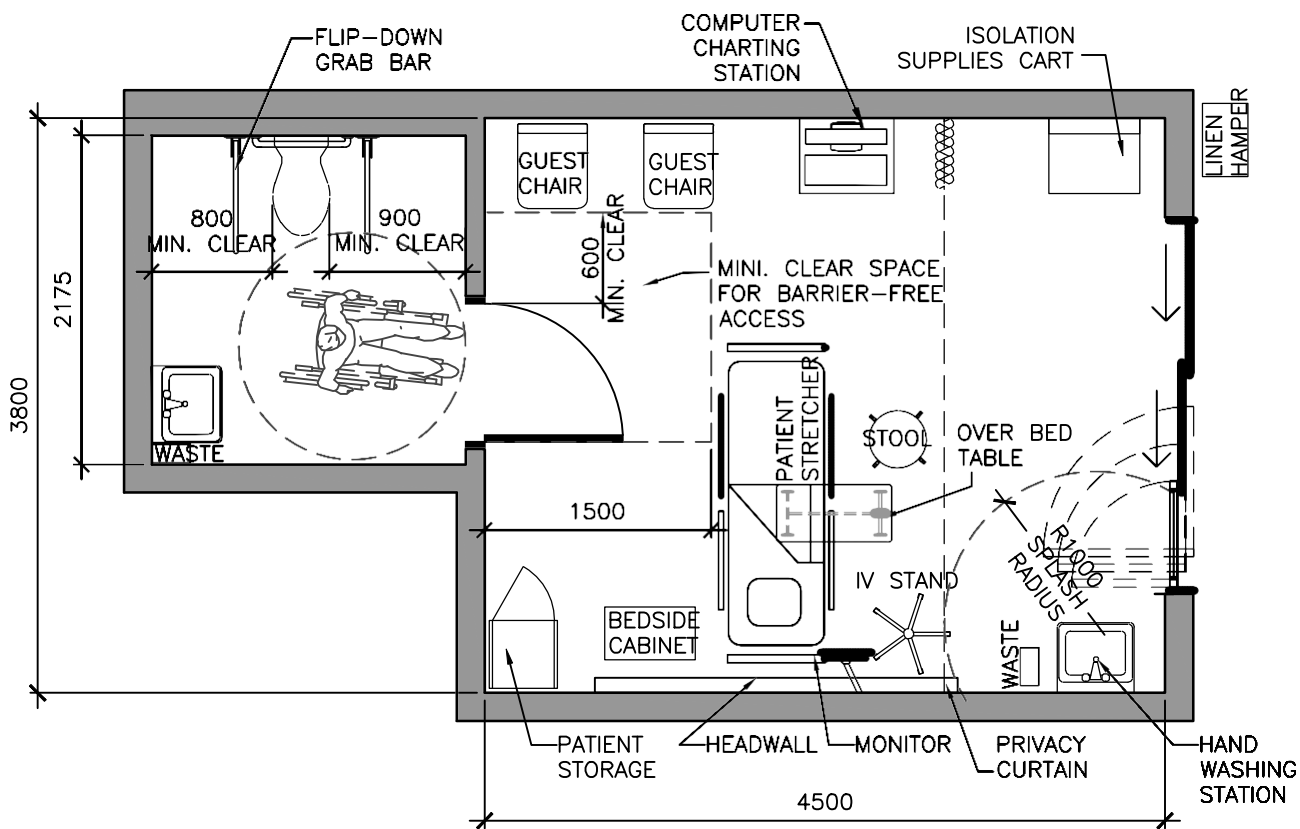
Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
Alberta Barrier-Free Design Guide (2008)  
Government of Alberta Health Infection Prevention and Control Strategy and Standards (2008)  
Government of Alberta Occupational Health & Safety Code Part 35 (2009)  
AIA Guidelines for Design and Construction of Health Care Facilities (2010)  
PIDAC-Provincial Infectious Diseases Advisory Committee  
AHS Infection Prevention and Control - Health Care Facility Design Guidelines and Preventive Measures for Construction, Renovation and Maintenance Activities, May 2013.  
CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.

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Reference Number  
Department  
Room Name  
Page

**D-4**  
**PARR**  
**PRE-OP HOLDING ISOLATION ROOM**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**

Reference Number

**E-1**

Department

**Inpatient Unit – Medical/Surgical**

Room Name

**PRIVATE BED ROOM, Isolation**

Page

**1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY**

Medical and nursing care, family centered care, decentralized workstations; private room with anteroom and private washroom. Multidisciplinary integrated care.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	3	2		6

5-7 staff members during code, 8-10 during educational rounds

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, contact isolation, negative pressure patient room, positive pressure anteroom, private washroom.

Routine practices and additional precautions

FFE-mask and eye protection (wall mounted) and glove box dispenser.

Sharps and alcohol based hand solution (wall mounted at point of care)

Airborne exhaust isolation

**KEY DIMENSIONS****Room Components**

Allow 3.4m x3.6m patient care zone.

**Ceiling Height**

Floor to ceiling – 2.7m minimum

3m minimum for ceiling mounted equipment and lights.

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of bed.

Allow room for medical mobile carts/equipment on either side of bed.

AREA

NET AREA  
**35 nsm (incl ante & WC)**

Date | **December 2014**

Reference Number

**E-1**

Department

**Inpatient Unit – Medical/Surgical**

Room Name

**PRIVATE BED ROOM, Isolation**

Page

**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

<b>Ceiling Mounted</b>	<b>Qty.</b>	<b>Remarks</b>
Lighting	1	Exam light over bed
Patient lift	1	
Privacy curtain	1	
Privacy Blinds	1	
Service column*	1	
<b>Wall Mounted</b>		
Hand washing station	2	1 in isolation room, 1 in anteroom
Lighting	1	On headwall
Headwall*	1	Medical gases, power, monitor
Bed bumper	1	
Shower curtain	1	
Grab bar	1	
Physiological monitor	1	
LCD television	1	
<b>Floor Mounted</b>		

\*optional

## MOBILE ELEMENTS

<b>Type</b>	<b>Qty.</b>	<b>Remarks</b>
Patient bed	1	
Supply cart	1	Moved in and out as required
Mobile diagnostic	1	Ultrasound, move in
Waste receptacle	5	
Defibrillator cart	1	In decentralized charting station
Bio-hazard waste receptacle	1	
Linen hamper	2	1 in isolation room, 1 in outside of the room
Over bed table	1	
Isolation supplies cart	1	In ante room
IV stand	1	
Mobile treatment cart	1	
Mobile dialysis machine*	1	

Date | **December 2014**

Reference Number

Department

Room Name

Page

**E-1****Inpatient Unit – Medical/Surgical****PRIVATE BED ROOM, Isolation****3 of 4**

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Computer/charting station	1	Mobile computer cart in decentralized charting station
Patient storage	1	Patient use
Bedside cabinet	1	Patient use
High back chair	1	Patient use
Commode/shower chair	1	In patient washroom
Coat hooks	1	
Desk/storage	1	Family use
Task chair	1	
Supplies shelving	1	In ante room
Supply storage	1	1 in decentralized charting station

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONSDoes not accommodate bariatric patient  
Equipment and staff will go through anteroomKEY ROOM  
ADJACENCIESWashroom, Ante room,  
Decentralized nursing station, Med preroom

## DESIGN FLEXIBILITY

## REGULATIONS

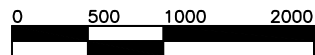
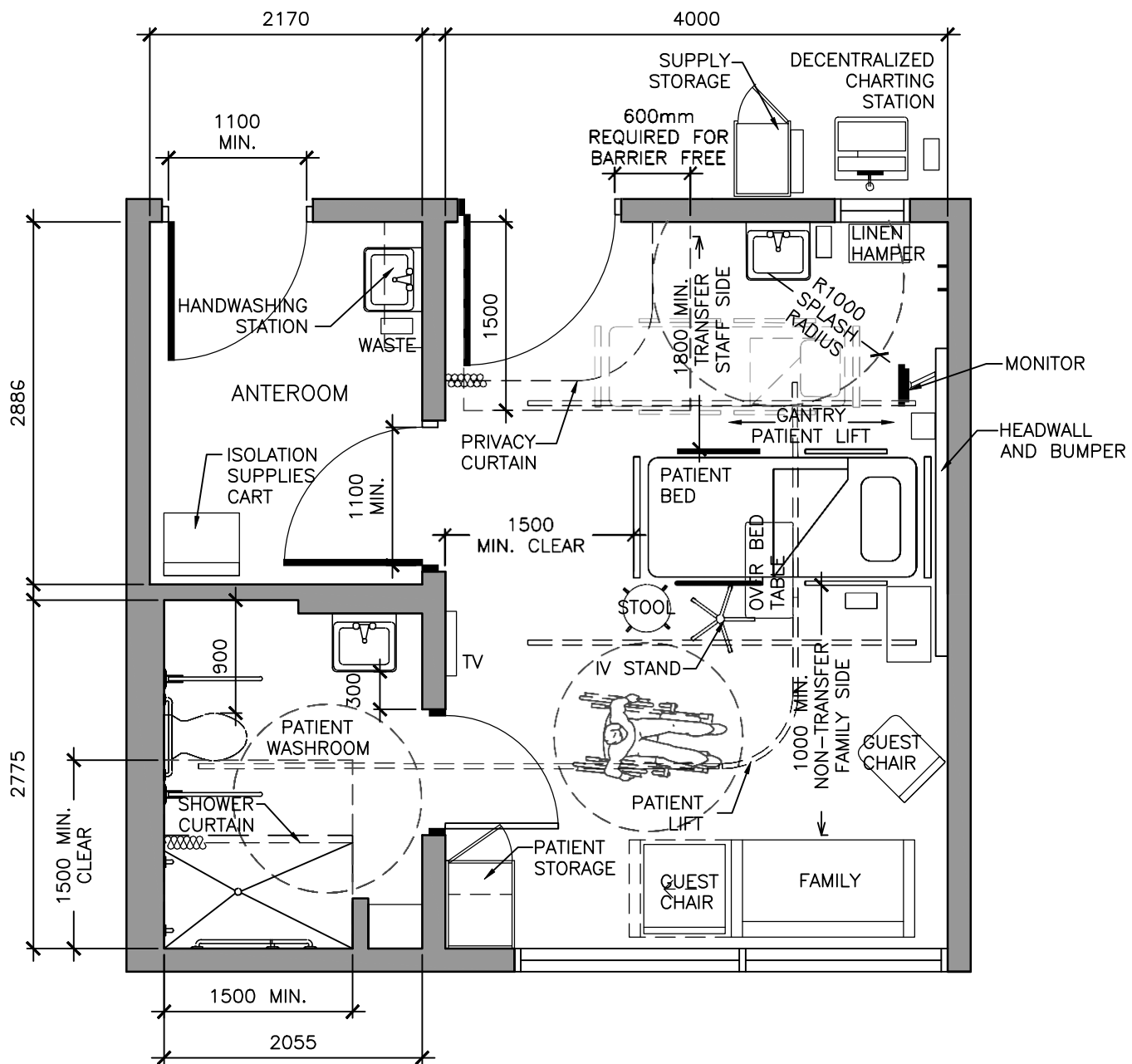
National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINESOntario Ministry of Health and Long-Term Care: Generic Output  
Specifications (2008)  
Alberta Barrier-Free Design Guide (2008)  
Government of Alberta Health Infection Prevention and Control Strategy and  
Standards (2008)  
Government of Alberta Occupational Health & Safety Code Part 35 (2009)  
AIA Guidelines for Design and Construction of Health Care Facilities (2010)  
PIDAC-Provincial Infectious Diseases Advisory Committee  
AHS Infection Prevention and Control - Health Care Facility Design Guidelines  
and Preventive Measures for Construction, Renovation and Maintenance  
Activities, May 2013.  
CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.

Date | December 2014

Reference Number  
Department  
Room Name  
Page

**E-1**  
**Inpatient Unit-Medical/Surgical**  
**PRIVATE BEDROOM, Isolation**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





Date | December 2014

Reference Number | E-2  
Department | Inpatient Unit –Medical/Surgical  
Room Name | PRIVATE BED ROOM  
Page | 1 of 4**PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Medical and nursing care: provision for family centered care, decentralized workstations; private room with washroom. Multidisciplinary integrated care.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments/Other:**

Infection prevention protocols, storage (supply and personal), rooming- in

**DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	3	2		6

5-7 staff members during code, 8-10 during educational rounds

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, contact isolation, private washroom  
 Routine practices and additional precautions  
 FFE-mask, eye protection and glove box dispenser (wall mounted)  
 Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow 3.4m x3.6m for patient care zone.

**Ceiling Height**

Floor to ceiling – 2.7m minimum.

3m minimum for ceiling mounted equipment and lights.

**Equipment Maneuverability**

Provide door size to allow for stretcher access into room  
 Allow for patient transfer from stretcher to either side of bed.  
 Allow room for medical mobile carts on either side of bed

AREA

NET AREA  
28.5 nsm

Date | December 2014

Reference Number | E-2  
Department | Inpatient Unit –Medical/Surgical  
Room Name | PRIVATE BED ROOM  
Page | 2 of 4**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Patient lift	1	
Service column*		
Exam light	1	
Privacy curtain	1	
Wall Mounted		
Hand washing station	1	
Lighting	1	On headwall
Headwall*	1	Medical gases, power, monitor
Bed bumper	1	
LCD television	1	Can also be ceiling mounted
Shower curtain	1	
Grab bars	Varie s	Grab bars to be near toilet and in shower
Physiological monitor	1	
Floor Mounted		

\*optional service locations

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient bed	1	
Supply cart	1	Moved in and out as required
Mobile diagnostic	1	Ultrasound, ECG,
Mobile treatment	1	Dialysis
Waste receptacle	4	
Linen hamper	1	
Over bed table	1	
IV stand	1	
Med prep cart	1	Moves in and out of room as required

Date | **December 2014**Reference Number | **E-2**  
Department | **Inpatient Unit –Medical/Surgical**  
Room Name | **PRIVATE BED ROOM**  
Page | **3 of 4**

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Family sleeper/chair	1	For family
Guest chair	1	For visitors
High back chair	1	For patient
Computer/charting station	1	In decentralized charting station
Patient storage	1	For patients
Bedside cabinet	1	For patients
Stool	1	
Commode/shower chair	1	In patient washroom
Supply storage	2	1 in patient room, 1 in decentralized charting station

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONSKEY ROOM | Washroom, Decentralized nursing station  
ADJACENCIES | Crash cart to be easily accessible.

## DESIGN FLEXIBILITY

REGULATIONS | National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINESOntario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
Alberta Barrier-Free Design Guide (2008)  
Government of Alberta Health Infection Prevention and Control Strategy and Standards (2008)  
Government of Alberta Occupational Health & Safety Code Part 35 (2009)  
AIA Guidelines for Design and Construction of Health Care Facilities (2010)  
PIDAC-Provincial Infectious Diseases Advisory Committee  
AHS Infection Prevention and Control - Health Care Facility Design Guidelines and Preventive Measures for Construction, Renovation and Maintenance Activities, May 2013.  
CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.



Date | **December 2014**Reference Number | **E-3**Department | **Inpatient Unit – Medical/Surgical**Room Name | **SEMI PRIVATE BED ROOM**Page | **1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY**

Medical and nursing care: provision for family centered care, decentralized workstations. Multidisciplinary integrated care. Patient confidentiality.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
2	4	4		10

5-7 staff members during code, 8-10 during educational rounds

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow 3.4m x3.6m patient care zone. (Per patient)

Minimum 2m separation between patients (beds).

**Ceiling Height**

Floor to ceiling – 2.7m minimum.

3m minimum for ceiling mounted equipment and lights.

**Equipment Maneuverability**

Provide door size to allow for stretcher access into room.

Allow for patient transfer from stretcher to either side of bed.

Allow room for medical mobile carts on either side of bed.

AREA

NET AREA  
**49 nsm (incl. 2 WC)**

Date | **December 2014**

Reference Number

**E-3**

Department

**Inpatient Unit – Medical/Surgical**

Room Name

**SEMI PRIVATE BED ROOM**

Page

**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

<b>Ceiling Mounted</b>	<b>Qty.</b>	<b>Remarks</b>
Patient lift	2	
Exam light	2	
Privacy curtain	2	
Privacy Blinds	1	
<b>Wall Mounted</b>		
Hand washing station	3	1 in patient room, 2 in patient washroom
Lighting	2	On headwall
Headwall*	2	Medical G-gases, power, monitor
Bed bumper	2	
Physiological monitor	2	
Grab bar	2	
Shower curtain	2	
LCD television	2	
<b>Floor Mounted</b>		
Service column*	2	

\*optional

## MOBILE ELEMENTS

<b>Type</b>	<b>Qty.</b>	<b>Remarks</b>
Patient bed	2	
Supply cart	1	Moved in and out as required
Mobile diagnostic	1	CT, ultrasound, ECG
Mobile treatment	1	Dialysis
Waste receptacle	6	2 in semi-private room, 2 in patient washroom, 1 in decentralized charting station, 1 in hand washing station
IV stand	2	
Med prep cart	1	
Over bed table	2	
Linen hamper	1	

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Reference Number

Department

Room Name

Page

**E-3****Inpatient Unit – Medical/Surgical****SEMI PRIVATE BED ROOM****3 of 4**

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Family sleeper/chair	2	For family
Guest chair	2	For visitors
Patient storage	2	For patients
Bedside cabinet	2	For patients
Computer / charting station	1	In decentralized charting station
Workstation	1	Counter with storage cupboards in decentralized charting station
Stool	1	
Commode/shower chair	2	In patient shower rooms
Coat hooks	2	
Supply storage	2	In decentralized charting station

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONS

KEY ROOM 2 Washrooms, Decentralized charting station  
ADJACENCIES Crash cart alcove easily accessible.

## DESIGN FLEXIBILITY

REGULATIONS National Building Code of Canada (2005)  
Alberta Building Code (2006)

REFERENCES AND  
GUIDELINES

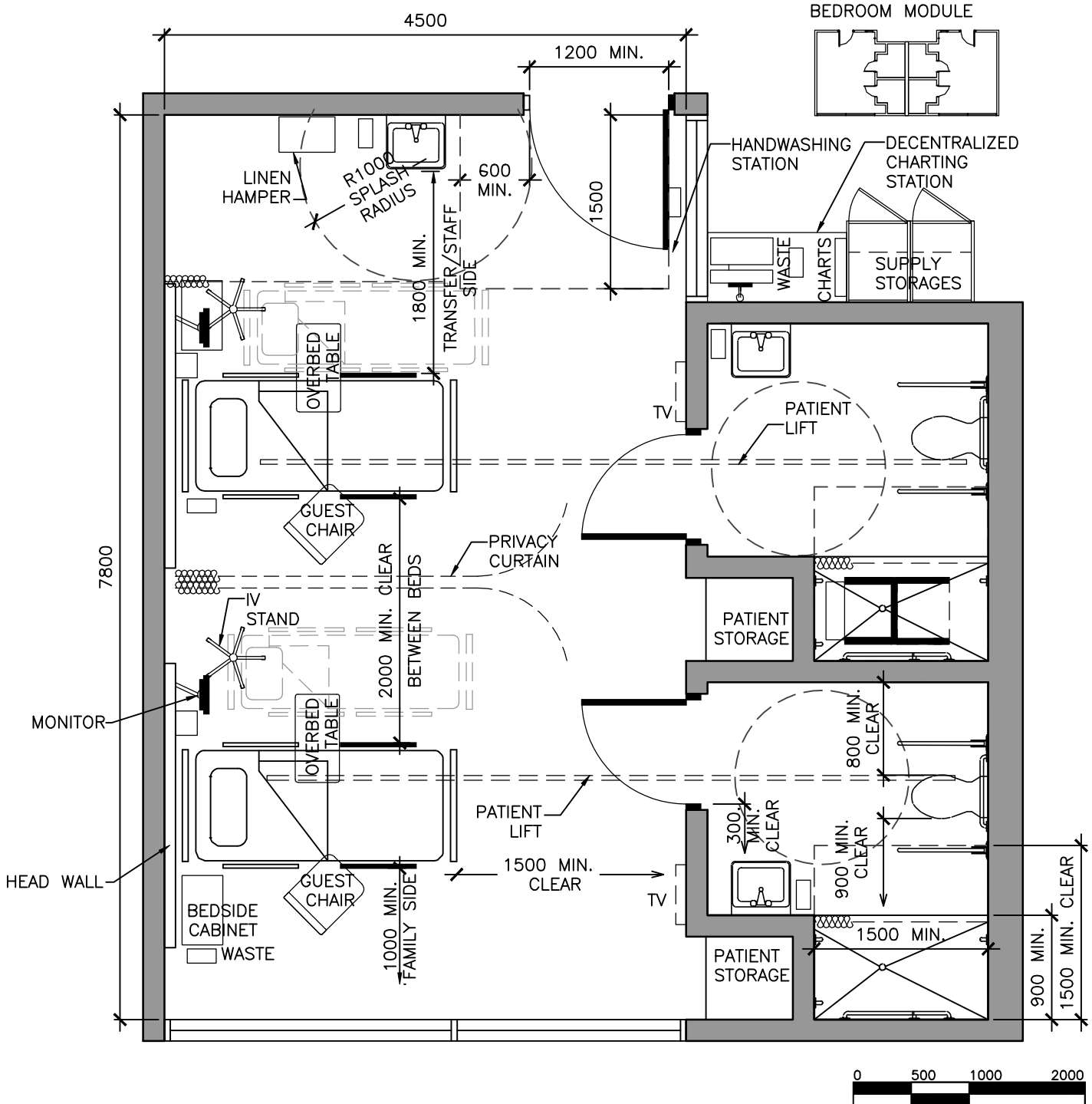
Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
Alberta Barrier-Free Design Guide (2008)  
Government of Alberta Health Infection Prevention and Control Strategy and Standards (2008)  
Government of Alberta Occupational Health & Safety Code Part 35 (2009)  
AIA Guidelines for Design and Construction of Health Care Facilities (2010)  
PIDAC-Provincial Infectious Diseases Advisory Committee  
AHS Infection Prevention and Control - Health Care Facility Design Guidelines and Preventive Measures for Construction, Renovation and Maintenance Activities, May 2013.  
CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.

Date | December 2014

Reference Number  
Department  
Room Name  
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**E-3**  
**Inpatient Unit-Medical/Surgical**  
**SEMI PRIVATE BEDROOM**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





Date | **December 2014**Reference Number  
Department  
Room Name  
Page**E-4**  
**Inpatient Unit – Medical/Surgical**  
**PRIVATE BEDROOM, PAEDIATRIC**  
**1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY** Medical and nursing care: accommodate family centered care, decentralized workstations. Flexibility to accommodate newborn to 17 year old patients.**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	3	4		8

5-7 staff members during code, 8-10 during educational rounds

**KEY INFECTION CONTROL PROTOCOLS**Hand washing station with 1000mm clear splash radius, contact isolation, Routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Sharps and alcohol based hand solution (wall mounted at point of care)**KEY DIMENSIONS****Room Components**

Allow 3.4m x 3.6m for patient care zone.

Allow 3.5m<sup>2</sup> for family zone.**Ceiling Height**Floor to ceiling – 2.7m minimum,  
3m minimum for ceiling mounted equipment and lights.**Equipment Maneuverability**

Provide door size to allow for stretcher or bed access into room.

Allow for patient transfer from stretcher to either side of bed.

Allow room for medical mobile carts on either side of bed.

Allow access to both sides of toilet

AREA

NET AREA  
**31 nsm**

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Department  
Room Name  
Page**E-4**  
**Inpatient Unit – Medical/Surgical**  
**PRIVATE BEDROOM, PAEDIATRIC**  
**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

<b>Ceiling Mounted</b>	<b>Qty.</b>	<b>Remarks</b>
Patient lift	1	
Exam light	1	
Privacy curtain	1	
Service column*		
<b>Wall Mounted</b>		
Hand washing station	1	
Lighting	1	On headwall
Headwall*	1	Medical gases, power, monitor
Bed bumper	1	
Grab bar	Varie s	Grab bars near toilet and in shower
Shower curtain	1	
LCD television	1	Can also be ceiling mounted
Physiological monitor	1	
<b>Floor Mounted</b>		

\*optional

## MOBILE ELEMENTS

<b>Type</b>	<b>Qty.</b>	<b>Remarks</b>
Patient bed	1	
Supply cart	1	Moved in and out as required
Mobile diagnostic	1	Ultrasound. Moved in and out as required
IV stand	1	
Defibrillator cart	1	In decentralized charting station
Linen hamper	1	
Over bed table	1	
Waste receptacle	4	
Med prep cart	1	Moved in and out as required

Date | **December 2014**

Reference Number

Department

Room Name

Page

**E-4****Inpatient Unit – Medical/Surgical****PRIVATE BEDROOM, PAEDIATRIC****3 of 4**

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Family sleeper/chair	1	For family
Guest chair	1	For visitors
Computer / charting station	1	In decentralized charting station
High back chair	1	For patient
Baby change station	1	Not kept in room
Patient storage	1	For patient
Bedside cabinet	1	For patient
Commode/shower chair	1	
Supply storage	2	1 in decentralized charting station, 1 in patient room

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONS

KEY ROOM ADJACENCIES	Washroom, Decentralized nursing station, Crash cart easily accessible
-------------------------	---

DESIGN FLEXIBILITY	Pediatric rooms can be designed to be similar in size to the adult rooms for flexibility.
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REGULATIONS	National Building Code of Canada (2005) Alberta Building Code (2006)
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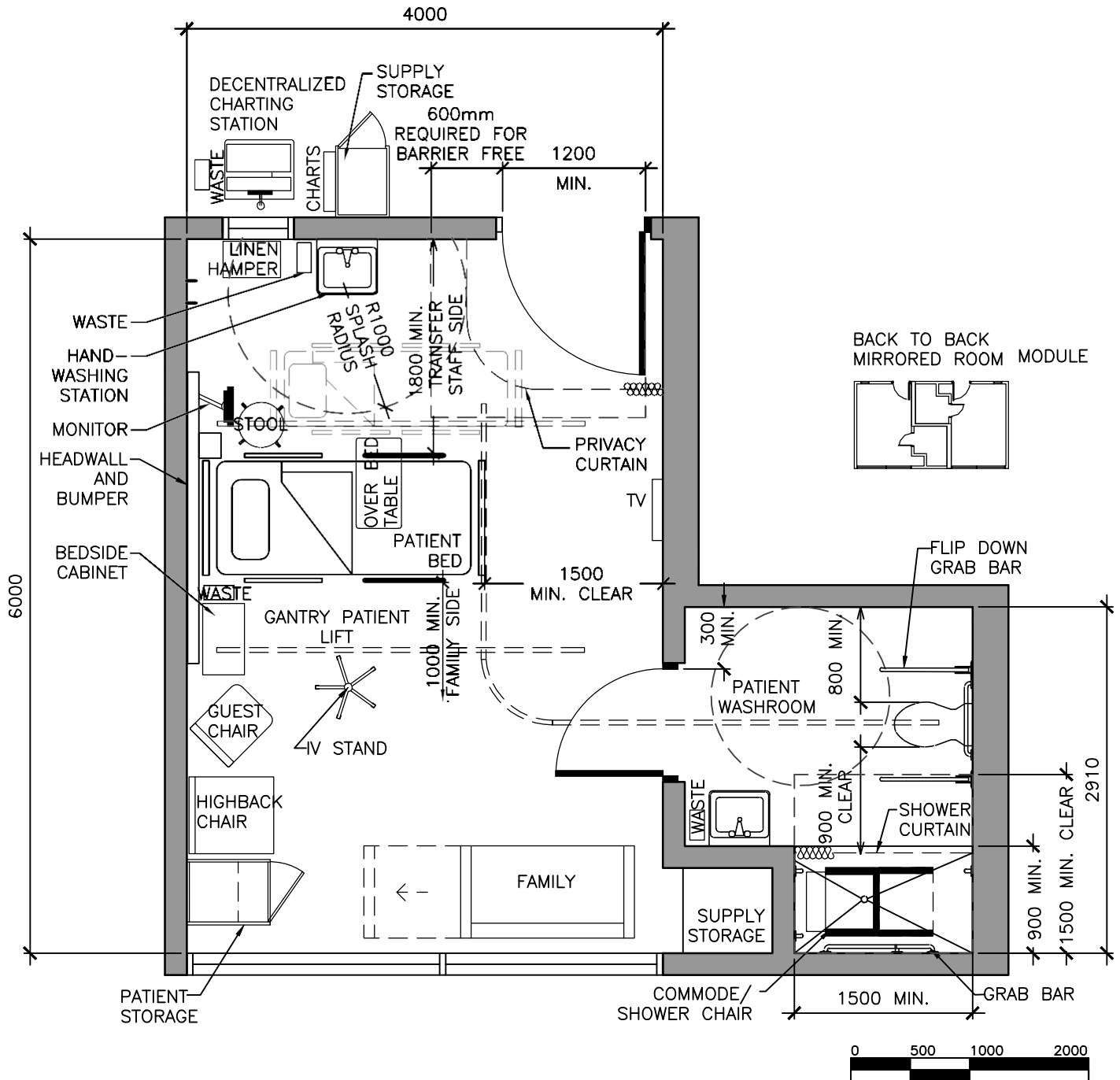
REFERENCES AND GUIDELINES	Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008) Alberta Barrier-Free Design Guide (2008) Government of Alberta Health Infection Prevention and Control Strategy and Standards (2008) Government of Alberta Occupational Health & Safety Code Part 35 (2009) AIA Guidelines for Design and Construction of Health Care Facilities (2010) PIDAC-Provincial Infectious Diseases Advisory Committee AHS Infection Prevention and Control - Health Care Facility Design Guidelines and Preventive Measures for Construction, Renovation and Maintenance Activities, May 2013. CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.
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Reference Number  
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Room Name  
Page

**E-4**  
**Inpatient Unit-Medical/Surgical**  
**PRIVATE BEDROOM, PAEDIATRIC**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | December 2014

Reference Number

Department

Room Name

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Inpatient Unit – Medical/Surgical

SEMI PRIVATE BEDROOM,  
PAEDIATRICS

1 of 4

**KEY PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY**

Medical and nursing care: accommodate for family centered care, decentralized workstations. Multidisciplinary integrated care. Flexibility to accommodate newborns to 17 year old patients.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments/Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
2	4	4		10

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, routine practices and additional precautions, FFE-mask, eye protection and glove box dispenser (wall mounted). Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow 3.4m x 3.6m for patient care zone. (per patient)

Allow 3.5m<sup>2</sup> for family zone. (per patient)

Minimum 2m separation between patients (beds).

**Ceiling Height**

Floor to ceiling – 2.7m minimum

3m minimum for ceiling mounted equipment and lights.

**Equipment Maneuverability**

Provide door size to allow for stretcher access into room.

Allow for patient transfer from stretcher to either side of bed.

Allow room for medical mobile carts on either side of bed.

Allow for access to both sides of toilet

AREA

NET AREA  
49 nsm (incl.)

Date | December 2014

Reference Number

Department

Room Name

Page

E-5

Inpatient Unit – Medical/Surgical

SEMI PRIVATE BEDROOM,

PAEDIATRICS

2 of 4

**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Patient lift	2	
Exam light	2	
Privacy curtain	2	
Service Column*	2	
Wall Mounted		
Hand washing station	3	1 in patient room, 2 in patient washroom
Lighting	2	On headwall
Headwall*	2	Medical gases, power, monitor
Bed bumper	2	
Physiological monitor	2	
Shower curtain	2	
Grab bars	Varie s	Grab bars near toilet and in showers
LCD television	2	Can also be ceiling mounted
Floor Mounted		

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient bed	2	
Supply cart	1	Moved in and out as required
Mobile diagnostic	1	Ultrasound. Moved in and out as required.
IV stand	2	
Waste receptacle	6	2 in semi-private room, 2 in patient washroom, 1 in decentralized charting station, 1 in hand washing station
Linen hamper	1	
Over bed table	2	
Med prep cart	1	Moved in and out as required

Date | **December 2014**

Reference Number

Department

Room Name

E-5

Inpatient Unit – Medical/Surgical

**SEMI PRIVATE BEDROOM,  
PAEDIATRICS**

Page

**3 of 4**

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Family sleeper / chair	2	For family
Guest chair	2	For visitors
Computer / charting station	1	In decentralized charting station
Workstation	1	Counter with storage cupboards in decentralized charting station
Patient storage	2	For patient
Bedside cabinet	2	For patient
Commode/shower chair	2	In patient washrooms
Supply storage	2	In decentralized charting station

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONSKEY ROOM  
ADJACENCIESPatient washrooms, Decentralized charting station  
Crash cart alcove easily accessible.

## DESIGN FLEXIBILITY

Pediatric rooms can be designed to be similar in size of the adult rooms for flexibility

## REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINES

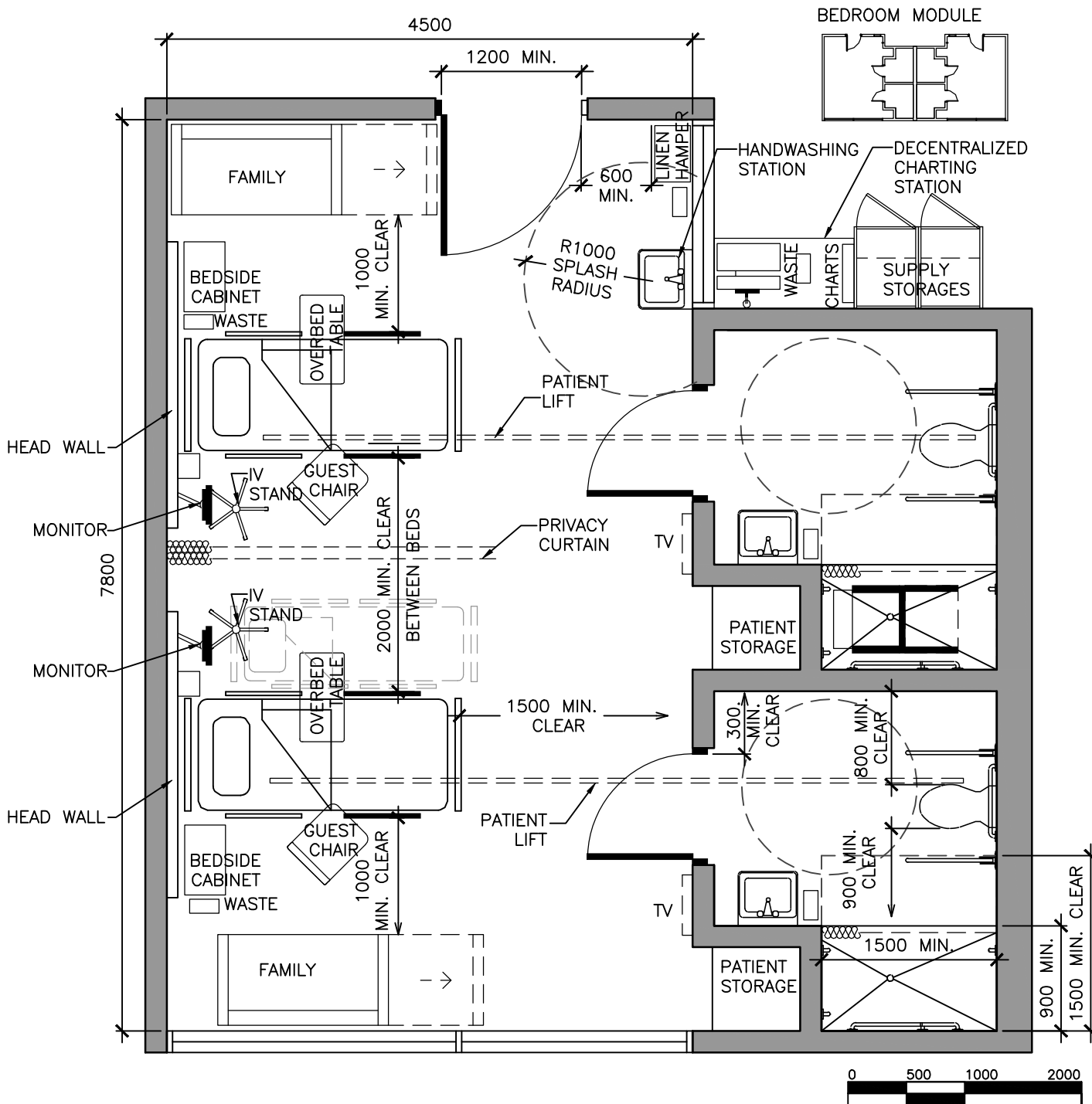
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 AHS Infection Prevention and Control - Health Care Facility Design Guidelines and Preventive Measures for Construction, Renovation and Maintenance Activities, May 2013.  
 CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.

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Reference Number  
Department  
Room Name  
Page

**E-5**  
**Inpatient Unit-Medical/Surgical**  
**SEMI PRIVATE BEDROOM, Paeds**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





Date | December 2014

Reference Number | E-6  
Department | Inpatient Unit – Medical/Surgical  
Room Name | 4 BEDROOM, Observation  
/ Special purpose room  
Page | 1 of 4**PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Medical and nursing care: Accommodate family centered care, decentralized workstations. Multidisciplinary integrated care. Observation and stabilization of patients needing special care or extra observation.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
4	8	4		16

Staff numbers do not include PT/OT aids

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, contact isolation, four shared washrooms  
Routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow 13.6m<sup>2</sup> for patient care zone. (per patient)  
Minimum 2m separation between patients (beds); 1 hand washing station per 3 patients, no more than 6m from patient space.

**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

Provide door size to allow for stretcher access into room.  
Allow for patient transfer from stretcher to either side of bed.  
Allow room for medical mobile carts on either side of bed

AREA

NET AREA  
144 nsm

Date | **December 2014**Reference Number | **E-6**  
Department | **Inpatient Unit – Medical/Surgical**  
Room Name | **4 BEDROOM, Observation**  
/ **Special purpose room**  
Page | **2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

<b>Ceiling Mounted</b>	<b>Qty.</b>	<b>Remarks</b>
Patient lift	4	
Exam light	4	
Privacy curtain	4	
Service column*	4	
<b>Wall Mounted</b>		
Hand washing station	2min.	
Lighting	4	On to headwall
Headwall	4	Medical gases, power, monitor
Bed bumper	4	
Grab bar	Varie s	Grab bars near toilets and in showers
Shower curtain	1	
<b>Floor Mounted</b>		

\*optional

## MOBILE ELEMENTS

<b>Type</b>	<b>Qty.</b>	<b>Remarks</b>
Patient bed	4	
Supply cart	2	Stored in supply alcove
Mobile diagnostic	1	Ultrasound. Moves in and out of room as required.
Linen hamper	1	
Waste receptacle	8	
Over bed table	4	
IV stand	4	
Mobile treatment	4	
Med prep cart	1	
Dialysis machine*	1	

\*optional

Date | **December 2014**Reference Number | **E-6**  
Department | **Inpatient Unit – Medical/Surgical**  
Room Name | **4 BEDROOM, Observation  
/ Special purpose room**  
Page | **3 of 4**

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Guest Chair	4	For visitors
Touch-down station	1	Counter with storage cupboards
Patient storage	4	Patient use
Bedside cabinet	4	Patient use
Commode/shower chair	4	In patient washrooms
Work counter	1	Counter with storage cupboards in Med prep and supply alcove

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONSStaffing ratio is 2:1  
Short length of stayKEY ROOM  
ADJACENCIESPatient washrooms, Med prep room, Decentralized nursing station  
Crash cart easily accessible.

## DESIGN FLEXIBILITY

Quad rooms should be designed to be the same size as two semi private  
rooms for flexibility.

## REGULATIONS

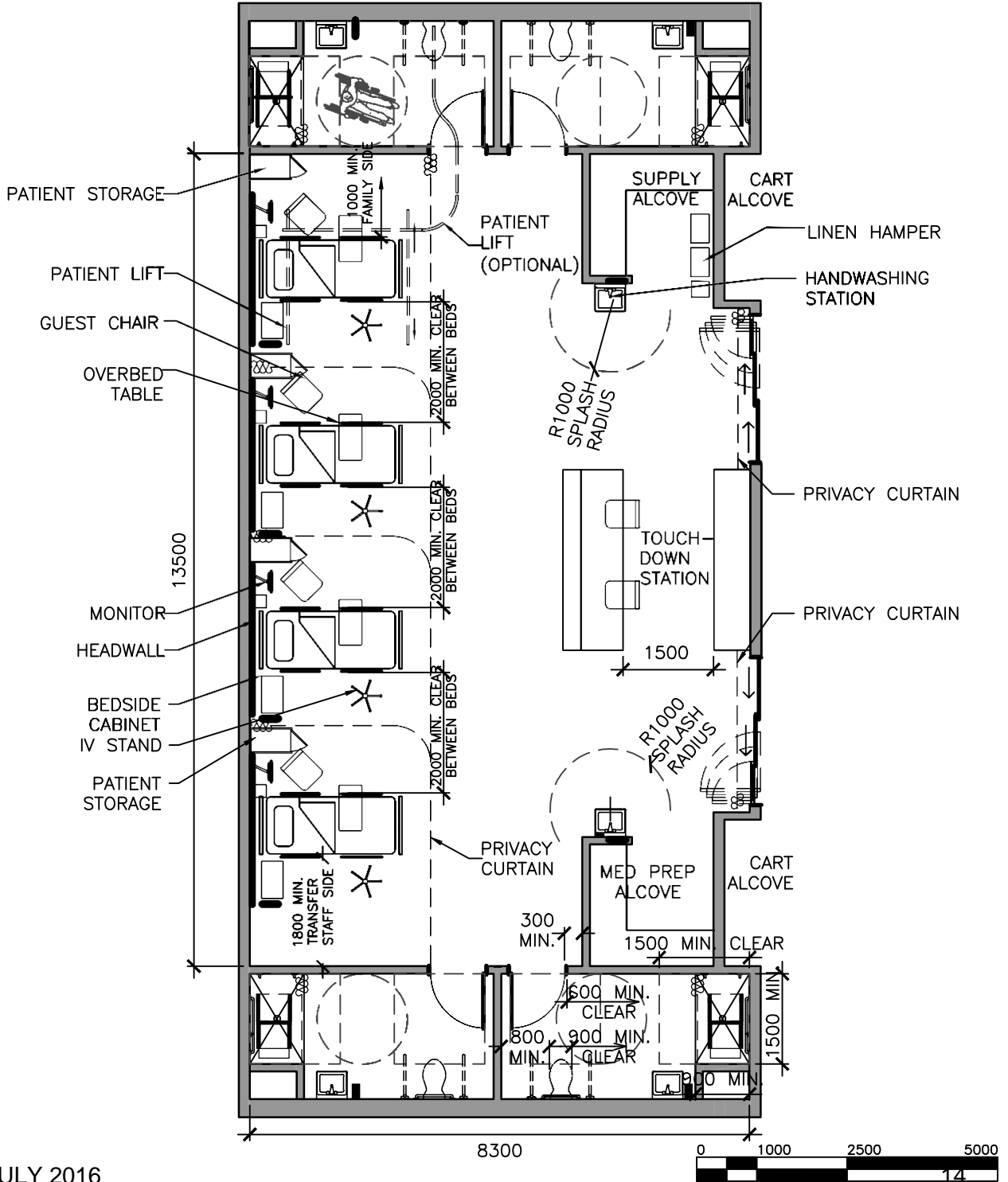
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GUIDELINESOntario Ministry of Health and Long-Term Care: Generic Output  
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AHS Infection Prevention and Control - Health Care Facility Design Guidelines  
and Preventive Measures for Construction, Renovation and Maintenance  
Activities, May 2013.  
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Reference Number  
Department  
Room Name  
Page

**E-6**  
**Inpatient Unit-Medical/Surgical**  
4 BEDROOM, Observation/ Special purpose room  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | December 2014

Reference Number  
Department  
Room Name  
PageE-7  
Inpatient Unit – Medical/Surgical  
PALLIATIVE CARE BED ROOM  
1 of 4**PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Medical and nursing care: accommodate family centered care. Multidisciplinary integrated care. 'Home-like' environment.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2	4		7

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted)  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**Allow 12m<sup>2</sup> for patient care zone.**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of bed.  
Allow room for medical mobile carts on either side of bed.

AREA

NET AREA  
31 nsm

Date | December 2014

Reference Number  
Department  
Room Name  
PageE-7  
Inpatient Unit – Medical/Surgical  
PALLIATIVE CARE BED ROOM  
2 of 4**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Patient lift	1	
Exam light	1	
Privacy curtain	1	
Wall Mounted		
Hand washing station	1	
Lighting	1	On to headwall
Headwall	1	Medical gases, power
Bed bumper	1	
Dialysis unit*	1	Piped-in RO water
LCD television	1	Can also be ceiling mounted
Grab bar	Varie s	Grab bars near toilet and at shower
Shower curtain	1	
Floor Mounted		

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient bed	1	
Supply cart	1	Moved in and out as required
Mobile diagnostic	1	CT, ultrasound, ECG. Moved in and out of room as required.
Mobile treatment	1	Dialysis machine. Moved in and out of room as required.
Waste receptacle	4	
Linen hamper	1	
Over bed table	1	
IV stand	1	
Med prep cart	1	Moved in and out of room as required.

Date | December 2014

Reference Number | E-7  
Department | Inpatient Unit – Medical/Surgical  
Room Name | PALLIATIVE CARE BED ROOM  
Page | 3 of 4

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Table	1	Patient use, includes kitchen station (microwave, etc)
Guest chair	1	Family use
Patient storage	1	Patient use
Bedside cabinet	1	Patient use
High back chair	1	Patient use
Family sleeper/chair	1	Family use
Computer / charting station	1	In decentralized charting station
Commode/shower chair	1	In patient washrooms
Supply storage	2	1 in decentralized charting station, 1 in patient room

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONSKEY ROOM  
ADJACENCIESWashroom, Decentralized nursing station  
Crash cart easily accessible.

## DESIGN FLEXIBILITY

## REGULATIONS

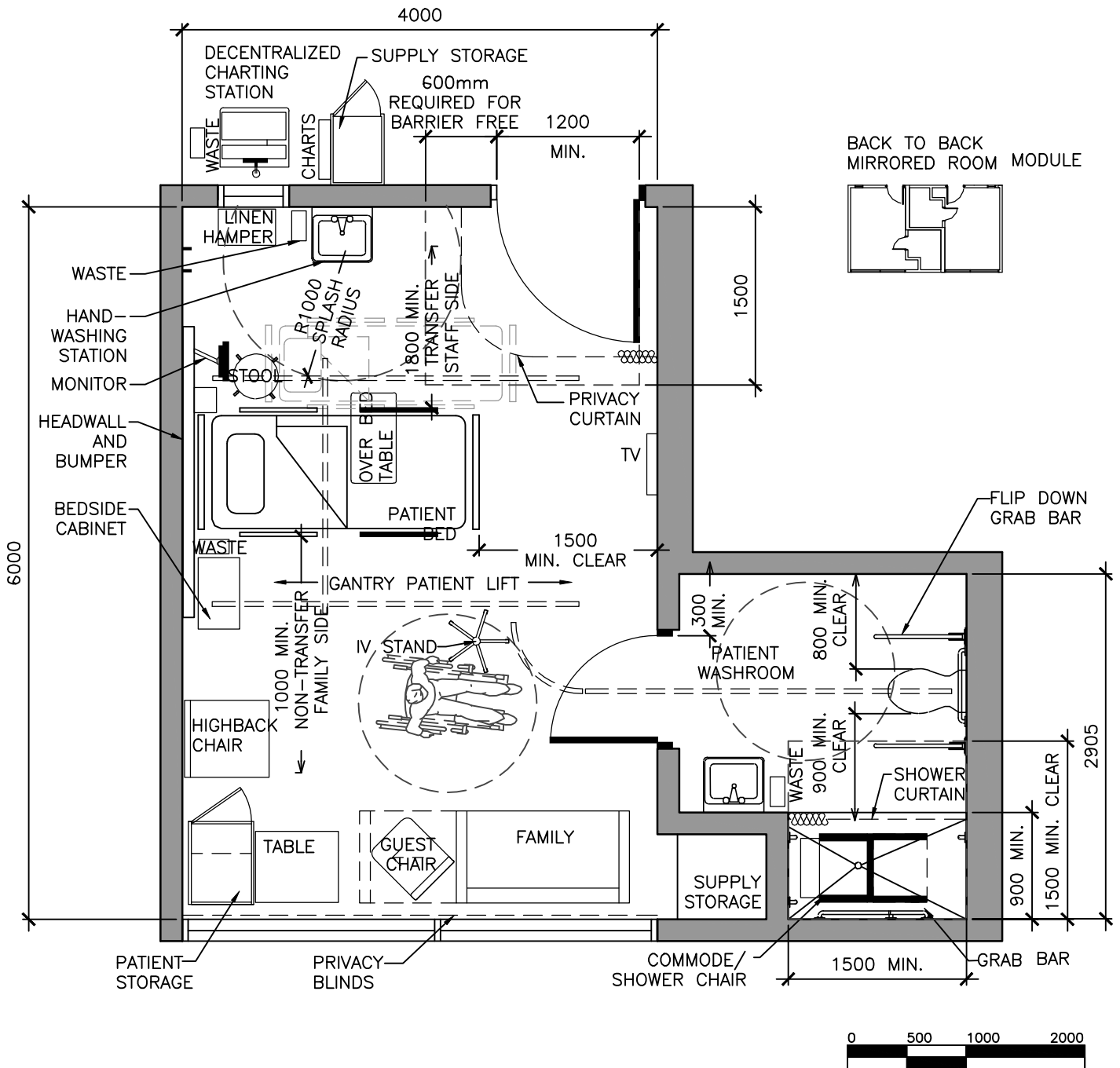
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GUIDELINESOntario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
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AHS Infection Prevention and Control - Health Care Facility Design Guidelines and Preventive Measures for Construction, Renovation and Maintenance Activities, May 2013.  
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Date | December 2014

Reference Number  
Department  
Room Name  
Page

**E-7**  
**Inpatient Unit-Medical/Surgical**  
**PALLIATIVE CARE BEDROOM**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





Date | **December 2014**Reference Number | **E-8**Department | **Inpatient Unit – Medical/Surgical**Room Name | **MEDICATION ROOM**Page | **1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY**

Efficient and safe preparation, allocation, and distribution of medications. Secure storage of medications. Staff safety and efficient workflow. Flexibility to accommodate multiple medication dispensing systems.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                        | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics              | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                        | <input type="checkbox"/> Teaching                  |
| <input checked="" type="checkbox"/> Documentation/Charting | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                       | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation       | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
	3			3

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, separate liquid dispensing sink.  
Sharps and alcohol based hand solution

**KEY DIMENSIONS****Room Components**

Allow entire room for staff zone.

**Ceiling Height**

Floor to ceiling – 2.4m minimum

**Equipment Maneuverability**

Allow room for multiple medication carts to move in and out of room.  
Allow clearance for pull-out drawers of automated dispensing machines.

AREA

NET AREA  
**15 nsm**

Date | **December 2014**Reference Number | **E-8**  
Department | **Inpatient Unit – Medical/Surgical**  
Room Name | **MEDICATION ROOM**  
Page | **2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Wall Mounted		
Hand washing station	1	
Magnifying light	2	
Liquid dispensing sink*	1	Infection prevention protocols may require a separate sink for dispensing liquids.
Utility sink	1	
Floor Mounted		
Medication dispensing system (PYXIS)*	3	Main, auxiliary, tower
Medication fridge	1	Alarmed and connected to BMS
Vaccine fridge	1	small

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Waste receptacle	3	
Biohazard waste receptacle	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Stool	2	
Medication prep station	2	Counter with storage cupboards, computer
IV Prep counter	1	Store and prepare IVs
Sharps disposal container	2	Under counter

Date | **December 2014**Reference Number | **E-8**  
Department | **Inpatient Unit – Medical/Surgical**  
Room Name | **MEDICATION ROOM**  
Page | **3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONS

Based on a model of decentralized medication stocking to decentralized medication carts  
Accommodates a full set of medication dispensing systems  
Base on two med prep stations

KEY ROOM  
ADJACENCIES

## DESIGN FLEXIBILITY

## REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)

REFERENCES AND  
GUIDELINES

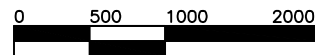
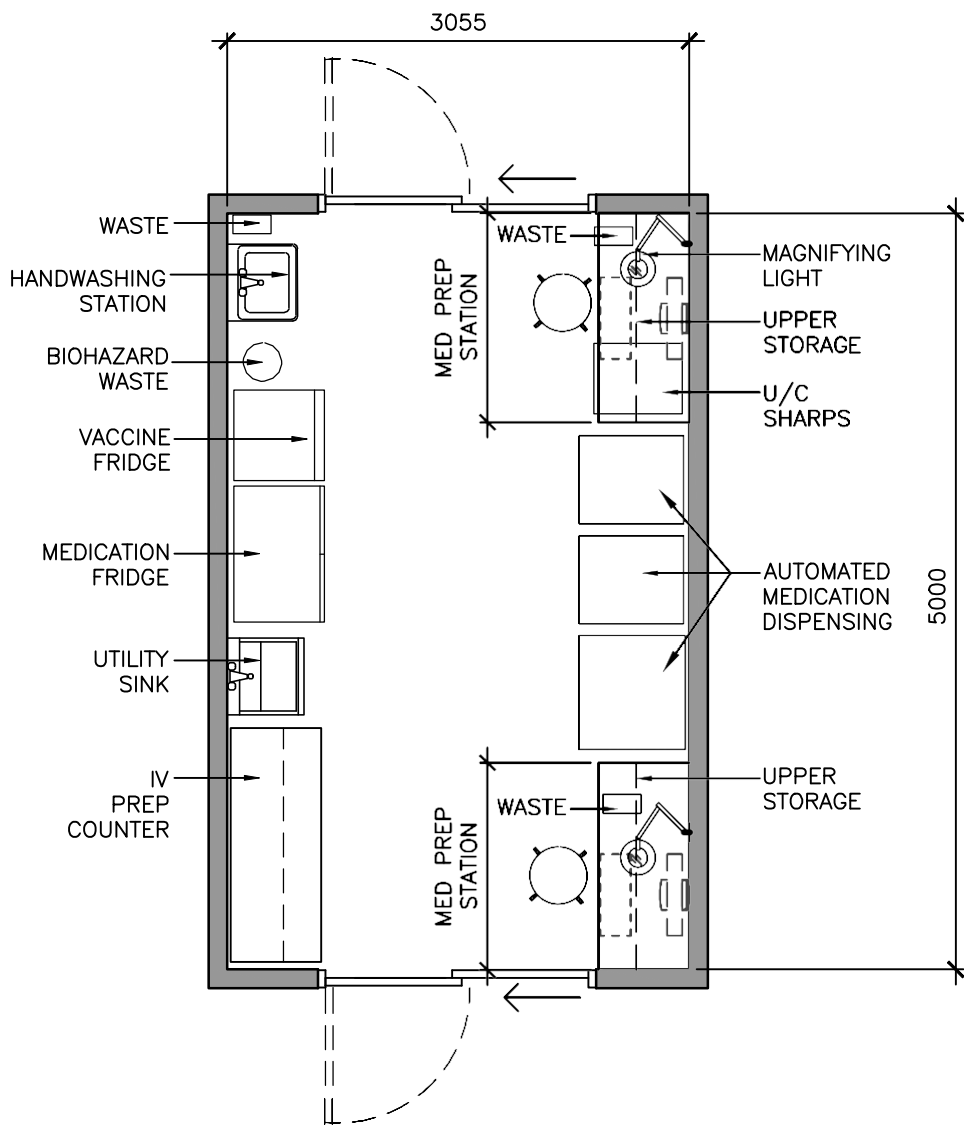
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Department  
Room Name  
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**E-8**  
**Inpatient Unit - Medical/Surgical**  
**MEDICATION ROOM**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number  
Department  
Room Name  
Page**E-9**  
**Inpatient Unit – Medical/Surgical**  
**HOUSEKEEPING**  
**1 of 4****PLANNING ASSUMPTIONS**

PATIENT CARE PHILOSOPHY    Non clinical support: cleaning and maintenance of facilities.

## KEY FUNCTIONS

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:**

## DESIGN OCCUPANCY

Patient	Staff	Family	Other	Total
	1			1

KEY INFECTION  
CONTROL PROTOCOLS

Hand washing station

## KEY DIMENSIONS

**Room Components****Ceiling Height**

Floor to ceiling – 2.4m minimum

**Equipment Maneuverability**

Allow room for cleaning cart to move in and out of room.

AREA

NET AREA  
**7 nsm (Decentralized)**  
**11 nsm (Centralized)**

Date | **December 2014**

Reference Number

Department

Room Name

Page

**E-9****Inpatient Unit – Medical/Surgical****HOUSEKEEPING****2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Wall Mounted		
Hand washing station	1	
Chemical solution dispenser	1	
Soap dispenser	1	
Floor Mounted		
Mop sink	1	

## MOBILE ELEMENTS

Type	Qty.	Remarks
Housekeeping cart	1	
Waste receptacle	1	
Utility cart	1	In decentralized housekeeping room
Ladder	1	
Carpet vacuum	1	
Wet/dry vacuum	1	In decentralized housekeeping room
Floor buffer	1	In decentralized housekeeping room
Floor machine extractor	1	In decentralized housekeeping room

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Supply shelf & counter	1	

Date | **December 2014**

Reference Number  
Department  
Room Name  
Page

**E-9**  
**Inpatient Unit – Medical/Surgical**  
**HOUSEKEEPING**  
**3 of 4**

---

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONS

---

KEY ROOM  
ADJACENCIES

---

DESIGN FLEXIBILITY

---

REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)

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REFERENCES AND  
GUIDELINES

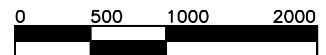
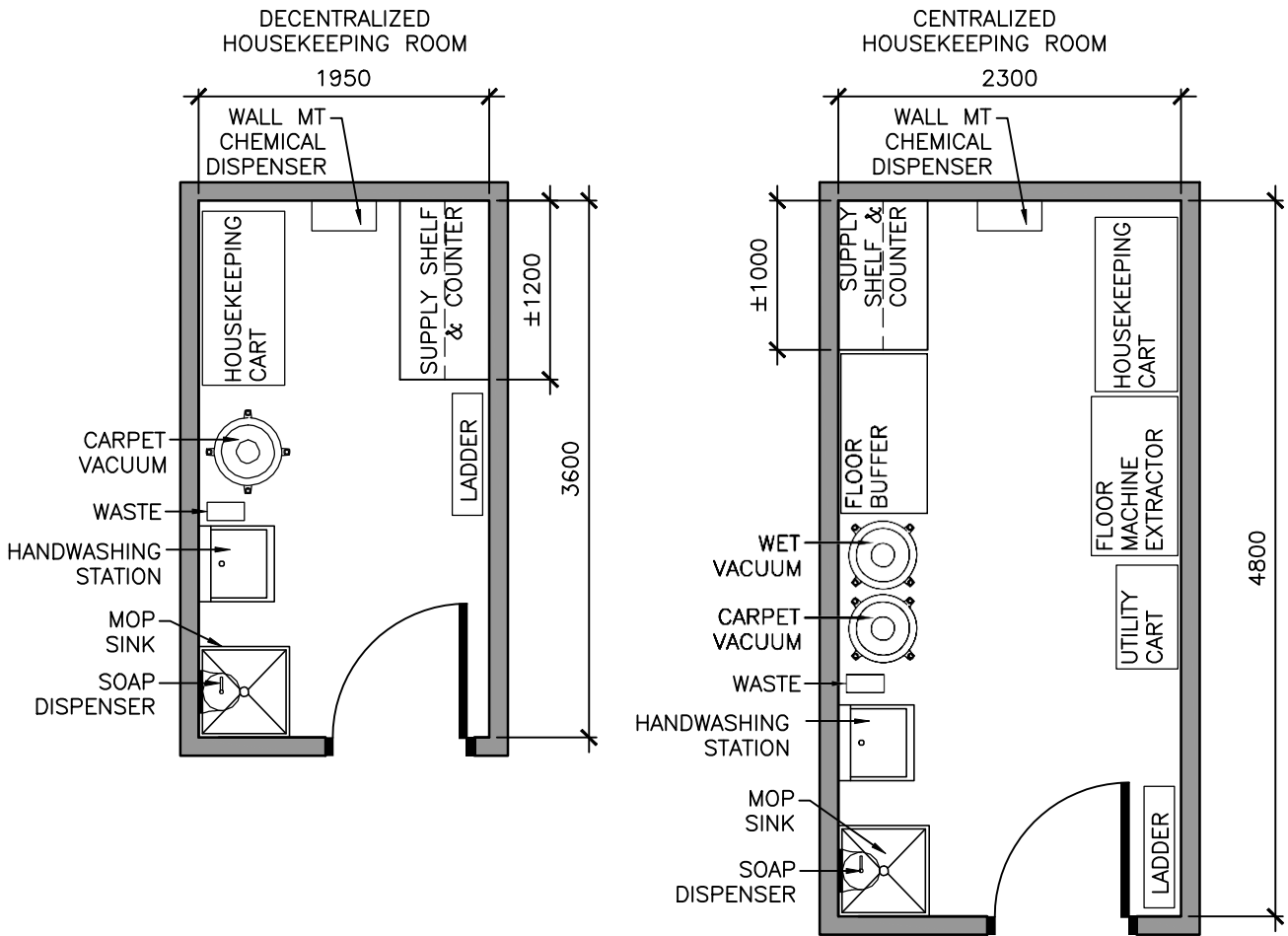
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Department  
Room Name  
Page

**E-9**  
**Inpatient Unit-Medical/Surgical**  
**HOUSEKEEPING**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





Date | **December 2014**Reference Number | **E-10**  
Department | **Inpatient Unit – Medical/Surgical**  
Room Name | **CLEAN SUPPLY**  
Page | **1 of 4****PLANNING ASSUMPTIONS**

PATIENT CARE PHILOSOPHY | Safe storage of facility supplies. Efficient access and flexibility.

## KEY FUNCTIONS

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:**

## DESIGN OCCUPANCY

Patient	Staff	Family	Other	Total
	2			2

KEY INFECTION  
CONTROL PROTOCOLS

No sinks are to be located in this room

## KEY DIMENSIONS

**Ceiling Height**

Floor to ceiling – 2.4m minimum

**Equipment Maneuverability**

Allow room for a supply cart to move in and out of the room.

AREA

NET AREA  
**11 nsm**

Date | **December 2014**

Reference Number

**E-10**

Department

**Inpatient Unit – Medical/Surgical**

Room Name

**CLEAN SUPPLY**

Page

**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Wall Mounted		
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Supply cart	4	
Warming cabinet*	1	
Linen cart	2	

\* optional

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks

Date | **December 2014**

Reference Number

**E-10**

Department

**Inpatient Unit – Medical/Surgical**

Room Name

**CLEAN SUPPLY**

Page

**3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONS

Based on a top-up system of material supply  
Size of room and number of rooms on a unit typically based on bed numbers  
and material management system.

KEY ROOM  
ADJACENCIES

## DESIGN FLEXIBILITY

## REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)

REFERENCES AND  
GUIDELINES

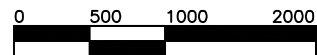
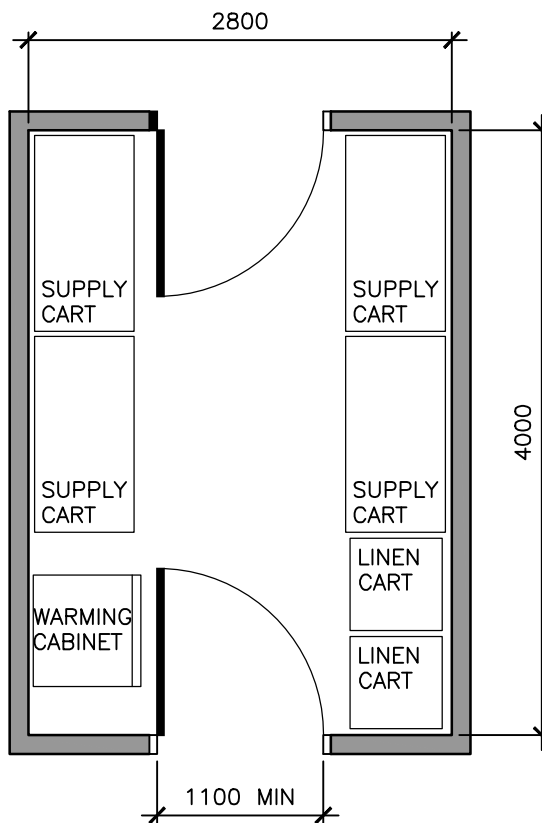
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Department  
Room Name  
Page

**E-10**  
**Inpatient Unit-Medical/Surgical**  
**CLEAN SUPPLY**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number | **E-11**  
Department | **Inpatient Unit – Medical/Surgical**  
Room Name | **SOILED HOLDING**  
Page | **1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY** Safe disposal and storage of facility waste. Efficient access and flexibility. Not for cleaning equipment or storing dirty equipment.**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
	2			2

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, aerosol containment, separation of soiled materials from clean patient areas, utility sink. Safe and efficient sharps disposal.

**KEY DIMENSIONS****Room Components**

Allow for equipment and containers to be stored in the room.

**Ceiling Height**

Floor to ceiling – 2.4m minimum

**Equipment Maneuverability**

Allow room for linen and waste carts to move in and out of room.

AREA

NET AREA  
**13.5 nsm**

Date | **December 2014**Reference Number  
Department  
Room Name  
Page**E-11**  
**Inpatient Unit – Medical/Surgical**  
**SOILED HOLDING**  
**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Wall Mounted		
Hand washing station	1	
Utility Sink	1	Disposal sink for liquids
Upper and lower cupboards	1	With stainless steel work surface, cleaning solutions storage
Floor Mounted		
Bedpan sanitizer	1	Sanitizer for bedpans, etc.

## MOBILE ELEMENTS

Type	Qty.	Remarks
Linen hamper	1	Soiled linen to be picked up
Waste receptacle	1	
Biohazard receptacle	1	
Sharps disposal container	1	
CSR cart	1	Soiled equipment to be picked up
Utility cart	1	
Recycle bins	3	
Soiled linen "tilt truck"	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks

Date | **December 2014**

Reference Number  
Department  
Room Name  
Page

**E-11**  
**Inpatient Unit – Medical/Surgical**  
**SOILED HOLDING**  
**3 of 4**

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONS

KEY ROOM  
ADJACENCIES

DESIGN FLEXIBILITY

REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)

REFERENCES AND  
GUIDELINES

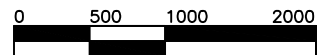
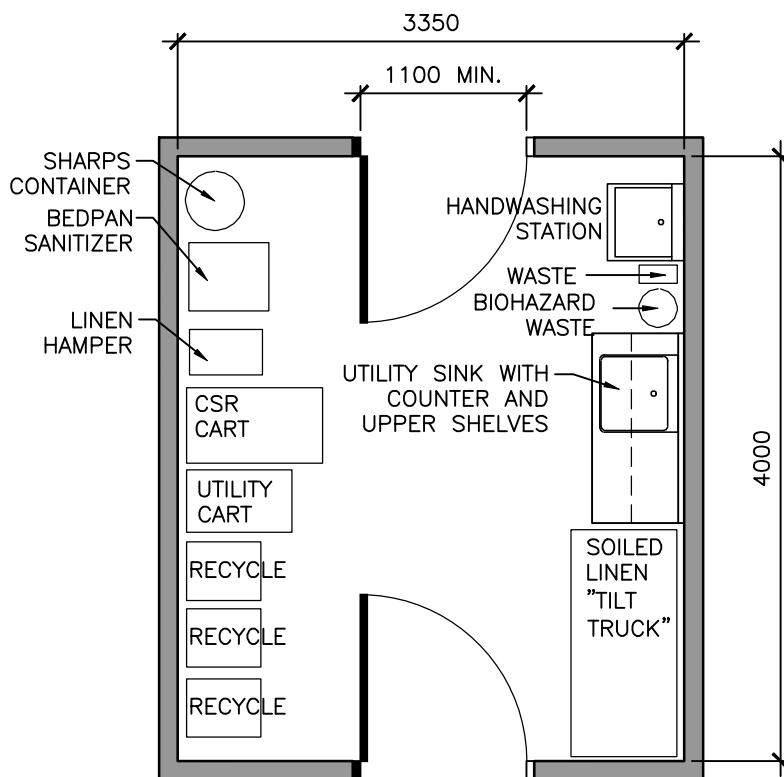
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**E-11**  
**Inpatient Unit-Medical/Surgical**  
**SOILED HOLDING**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





Date | **December 2014**Reference Number | **F-1**  
Department | **Critical Care Unit: CCU**  
Room Name | **PRIVATE BED ROOM**  
Page | **1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Critical care one-on-one nursing care, stabilization, coronary system and ventilation support, resuscitation and family centered care, high access

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2	1		4

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow access to all sides of patient bed.  
Provide access to enclosed toilet room or waste disposal areas.

**Ceiling Height**

Floor to ceiling – 2.7m minimum,  
3m minimum for ceiling mounted service column.

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of bed.  
Allow room for medical carts and equipment on either side of bed.  
Space at end of bed for IABP and Impella

AREA

NET AREA  
31msm

Date | **December 2014**

Reference Number

**F-1**

Department

**Critical Care Unit: CCU**

Room Name

**PRIVATE BED ROOM**

Page

**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Patient lift	1	
Service column*	1	Medical gases, power
Privacy curtain	2	
IV track		
Wall Mounted		
Hand washing station	2	
Headwall*	1	Medical gases, power
Bed bumper	1	
Physiological monitor	2	1 in private bed room. 1 in decentralized charting station
LCD television	1	Can also be ceiling mounted
Floor Mounted		

\*Optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient bed	1	
Mobile diagnostic	1	Ultrasound, ECG – moves in and out of room as needed
Mobile treatment	1	Dialysis machine – moves in and out of room as needed
Linen hamper	1	
IV stand*	1	
Bedpan sanitizer*	1	
Over bed table	1	
Med prep cart	1	Moves in and out of room as needed
Crush cart	1	

\*optional

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Family sleeper/chair	1	
Guest chair	1	For visitor
Computer/charting station	1	In decentralized charting station
Workstation	1	Counter with storage cupboards in decentralized charting station
Patient storage	1	For patient
Bedside cabinet	1	For patient
Stool	1	In decentralized charting station

Date | **December 2014**

Reference Number | **F-1**  
 Department | **Critical Care Unit: CCU**  
 Room Name | **PRIVATE BED ROOM**  
 Page | **3 of 4**

**DESIGN CONSIDERATIONS**

CLINICAL  
ASSUMPTIONS

KEY ROOM ADJACENCIES | Decentralized nursing station and access/view to adjacent room  
 Crash cart easily accessible

DESIGN FLEXIBILITY

REGULATIONS | National Building Code of Canada (2005)  
 Alberta Building Code (2006)

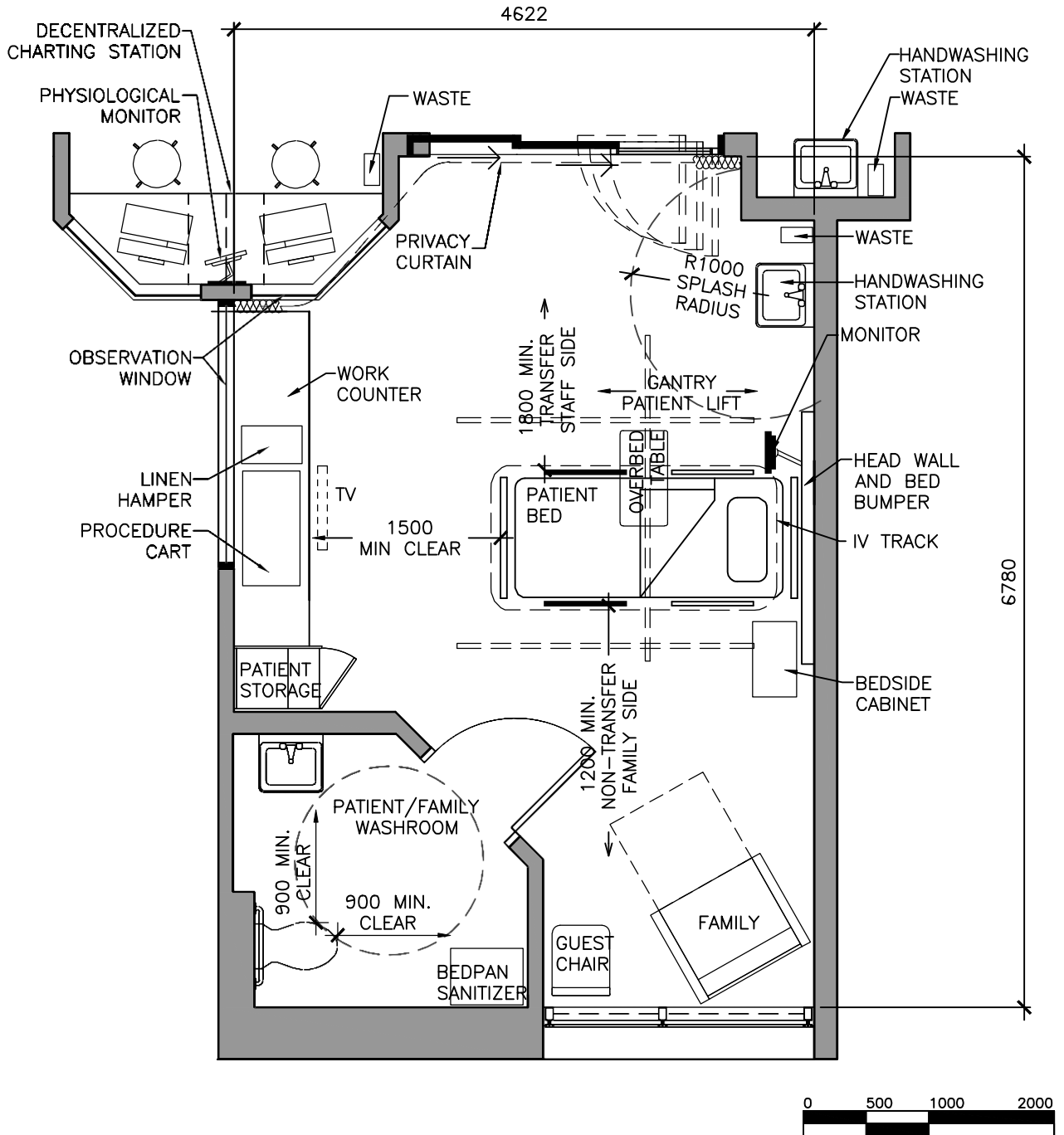
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Department  
Room Name  
Page

**F-1**  
**Critical Care Unit**  
**PRIVATE BEDROOM, CCU**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number | **F-2**  
Department | **Critical Care Unit: ICU**  
Room Name | **PRIVATE BED ROOM**  
Page | **1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Critical care one-on-one nursing care, stabilization, resuscitation, ventilation support, end-of-life care and family centered care. Standardization and flexibility of rooms. Flexible to accommodate a number of different procedures and equipment for multiple organ failure.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	3	2		6

During a code, staff numbers increase to 10 people. Typically 4 staff members every 2 hours. As staff numbers increase, family numbers decrease.

**KEY INFECTION  
CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius contactisolation. Minimum number of air changes to allow for invasive procedures within rooms. Routine practices and additional precautions. FFE-mask, eye protection and glove box dispenser (wall mounted). Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow access to all sides of patient bed and maneuverability of stretcher and equipment on all sides of bed.

Allow for maneuverability of articulating service column on each side of bed

**Ceiling Height**

Floor to ceiling - 3m minimum for ceiling mounted service column.

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of bed.

Allow room for medical carts and equipment on all sides of bed.

Allow clear ceiling space for gantry patient lift

AREA

NET AREA  
**29.5 nsm**

Date | December 2014

Reference Number | F-2  
Department | Critical Care Unit: ICU  
Room Name | PRIVATE BED ROOM  
Page | 2 of 4**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Patient lift	1	
Service column	1	Medical gases, power, monitors
Privacy curtain	1	
Wall Mounted		
Hand washing station	3	1 in hand wash alcove, 1 in ICU bedroom, 1 shared between pairs of room at bedpan sanitizer
Bed bumper	1	
Dialysis cabinet	1	
Physiological monitor	2	1 on service column, 1 in decentralized charting station
LCD television	1	
Floor Mounted		
Bedpan sanitizer	1	Can be shared between pairs of room

## MOBILE ELEMENTS

Type	Qty.	Remarks
ICU patient bed	1	
Procedure cart	1	
Mobile diagnostic	1	Ultrasound, ECG, C-arm
Mobile treatment	1	Dialysis & R.O tanks, crash cart, ventilator (can be boom mnt'd)
Waste receptacle	5	
IV stand	1	
Over bed table	1	
Linen hamper	1	
Ventilator	1	
Med prep cart		
Crush cart	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Family sleeper/chair	1	For family
Guest chair	3	2 for family, 1 for patient
Stool	1	In decentralized charting station
Patient storage	1	For patient
Computer/charting station	1	Can be shared between pairs of rooms, work surface with storage below, 2 computers
Work station	1	Counter with storage cupboards in decentralized charting stn.
Work counter	1	In patient room
Step stool	1	Moved in and out as required

Date | **December 2014**Reference Number | **F-2**  
Department | **Critical Care Unit: ICU**  
Room Name | **PRIVATE BED ROOM**  
Page | **3 of 4****DESIGN CONSIDERATIONS****CLINICAL  
ASSUMPTIONS**

Every patient room has direct access to a shared waste disposal unit and/or washroom  
Window view to adjacent patient room to aid staffing supervision

**KEY ROOM  
ADJACENCIES**

Decentralized nursing station.  
Crash cart easily assessable  
Bedpan sanitization utility room or patient washroom  
Hand wash sink alcove (can be shared between pairs of rooms)

**DESIGN FLEXIBILITY**

Allow for patient bed to be rotated within the room  
Allow for constantly changing equipment and technology

**REGULATIONS**

National Building Code of Canada (2005)  
Alberta Building Code (2006)

**REFERENCES AND  
GUIDELINES**

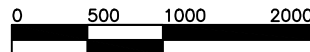
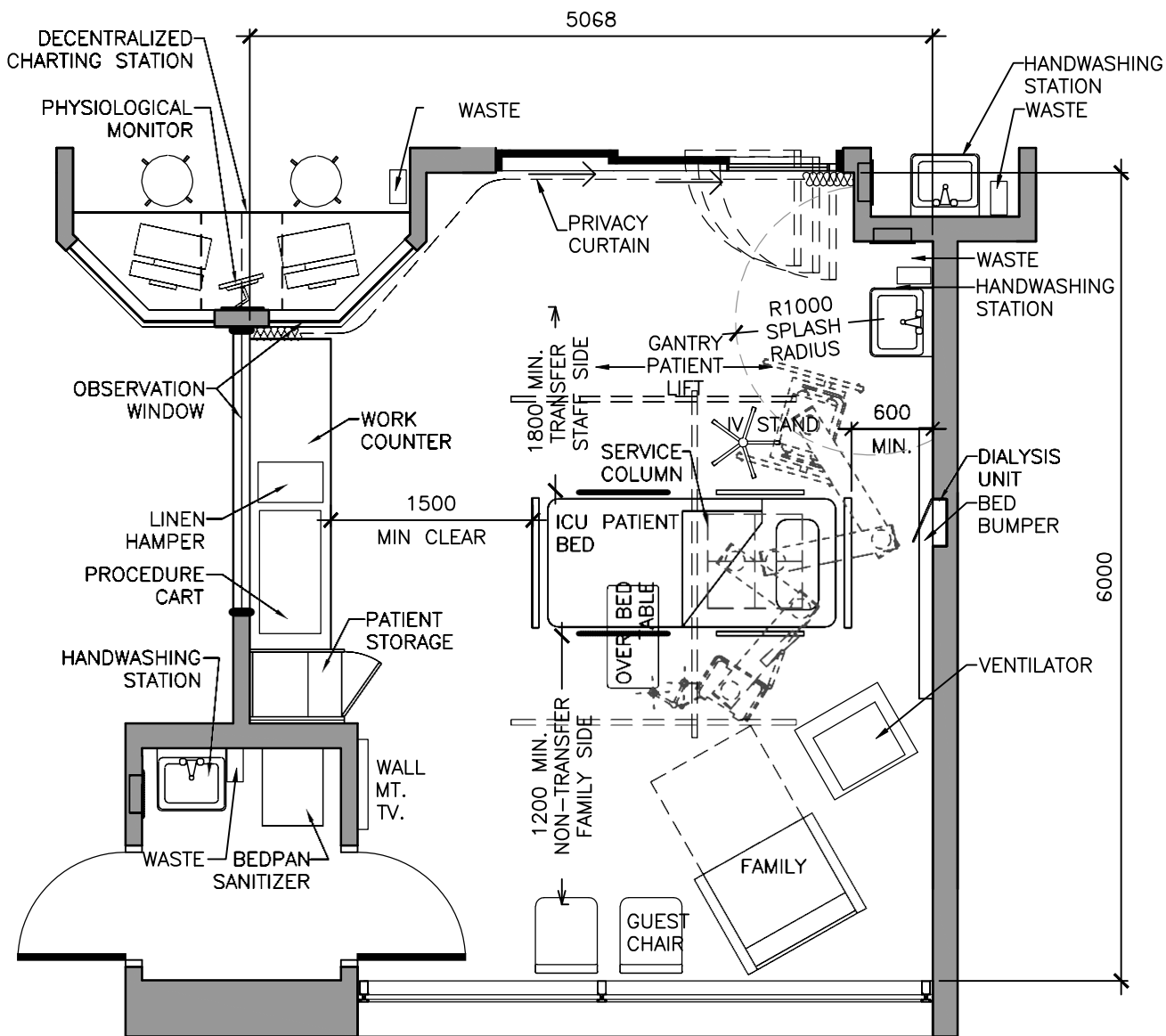
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Room Name  
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**F-2**  
**Critical Care Unit**  
**PRIVATE BEDROOM, ICU**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





Date | **December 2014**Reference Number  
Department  
Room Name  
Page**F-3**  
**Critical Care Unit: CVICU**  
**PRIVATE BED ROOM**  
**1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Critical care one-on-one nursing care, stabilization, and family centered care, high access

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2	1		4

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow access to all sides of patient bed.  
Provide access to enclosed toilet room or waste disposal areas.

**Ceiling Height**

Floor to ceiling - 3m minimum for ceiling mounted service column

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of bed.  
Allow room for medical carts and equipment on either side of bed.

AREA

NET AREA  
**31 nsm**

Date | **December 2014**Reference Number  
Department  
Room Name  
Page**F-3**  
**Critical Care Unit: CVICU**  
**PRIVATE BED ROOM**  
**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Exam Light	1	
Patient lift	1	
Service column	1	Medical gases, power
Privacy curtain	2	
Wall Mounted		
Hand washing station	1	
Bed bumper	1	
LCD television	1	
Physiological monitor	2	1 on service column, 1 in decentralized charting station
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient bed	1	
Over bed table	1	
Mobile diagnostic	1	Ultrasound, ECG – move in and out of room as needed
Mobile treatment	1	Dialysis, crash cart – move in and out of room as needed
Linen hamper	1	
IV stand	1	
Blood coagulation system	1	
Med prep cart	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Family sleeper/chair	1	For family
Guest chair	1	For visitors
Patient storage	1	For patient
Computer/charting station	1	In decentralized charting station
Workstation	1	Counter with storage cupboards in decentralized charting station
Cardiac chair	1	
Stool	1	In decentralized nurse charting station
Bedside cabinet	1	For patient

Date | **December 2014**Reference Number | **F-3**  
Department | **Critical Care Unit: CVICU**  
Room Name | **PRIVATE BED ROOM**  
Page | **3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONSKEY ROOM  
ADJACENCIESDecentralized nursing station and access view to adjacent room  
Patient washroom  
Crash cart easily accessible

## DESIGN FLEXIBILITY

## REGULATIONS

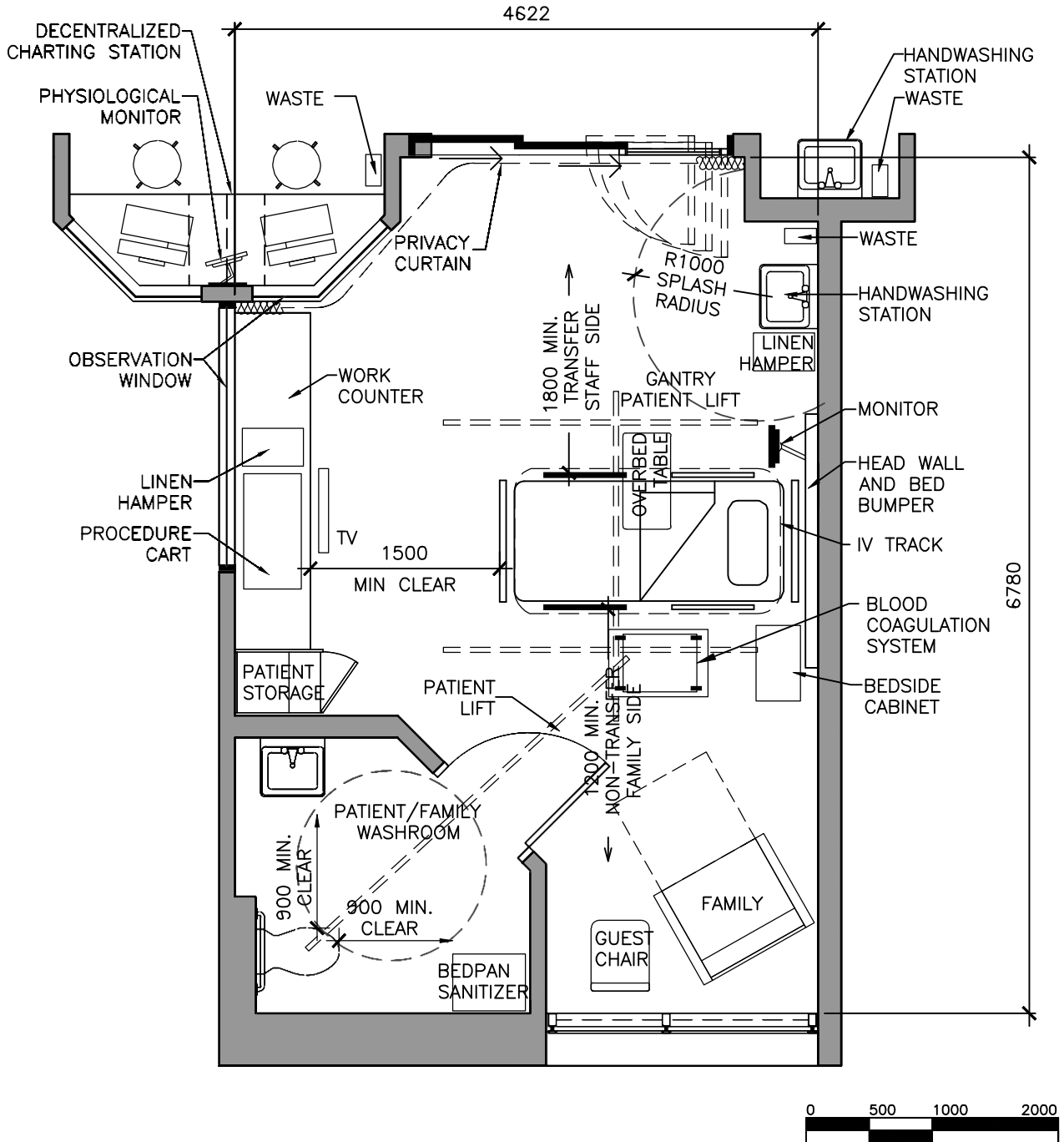
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Reference Number  
Department  
Room Name  
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**F-3**  
**Critical Care Unit: CVICU**  
**PRIVATE BEDROOM, CVICU**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number | **F-4**  
Department | **Critical Care Unit: PICU**  
Room Name | **PRIVATE BED ROOM**  
Page | **1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Critical care one-on-one nursing care, stabilization, resuscitation, ventilation support, end-of-life care and family centered care. Standardization and flexibility of rooms. Flexible to accommodate a number of different procedures and equipment for multiple organ failure.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2	2		5

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, routine practices and additional precautions, FFE-mask and eye protection (wall mounted) and glove box dispenser.  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow access to all sides of patient bed and maneuverability of stretcher and equipment on all sides of bed.

**Ceiling Height**

Floor to ceiling – 3m minimum for ceiling mounted service column

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of bed.  
Allow space for medical carts and equipment on either side of bed as well as head of bed.

AREA

NET AREA  
**32 nsm**

Date | December 2014

Reference Number  
Department  
Room Name  
PageF-4  
Critical Care Unit: PICU  
PRIVATE BED ROOM  
2 of 4**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Exam Light	1	
Patient lift	1	
Service column*	1	Medical gases, power
Privacy curtain	1	
LCD TV	1	Can also be wall mounted
Wall Mounted		
Hand washing station	2	
Headwall*	1	Medical gases, power
Bed bumper	1	
Physiological monitor	2	1 on service column, 1 in decentralized charting station
Floor Mounted		
Bedpan sanitizer	1	In patient washroom

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient bed	1	
Procedure cart	1	
Mobile diagnostic	1	Ultrasound, ECG – moves in and out of room as needed
Mobile treatment	1	Dialysis, ventilator– moves in and out of room as needed
IV stand	1	
Linen hamper	1	
Over bed table	1	
Ventilator	1	
Med prep cart	1	Moves in and out of room as needed

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Family sleeper/chair	1	For family
Guest chair	1	For visitor
Patient storage	1	Family and patient use
Computer/charting station	1	In decentralized charting station
Workstation	1	Counter with storage cupboards in decentralized charting station
Work counter	1	In patient room
Bedside cabinet	1	For patient
Waste receptacle	5	

Date | **December 2014**Reference Number | **F-4**  
Department | **Critical Care Unit: PICU**  
Room Name | **PRIVATE BED ROOM**  
Page | **3 of 4****DESIGN CONSIDERATIONS****CLINICAL  
ASSUMPTIONS**

Every patient room has direct access to a shared waste disposal unit and/or washroom  
Window view to adjacent patient room to aid staffing supervision

**KEY ROOM  
ADJACENCIES**

Decentralized nursing station  
Hand wash sink alcove (can be shared between pairs of rooms)  
Washroom

**DESIGN FLEXIBILITY**

Allow for patient bed to be rotated within the room  
Allow for constantly changing equipment and technology

**REGULATIONS**

National Building Code of Canada (2005)  
Alberta Building Code (2006)

**REFERENCES AND  
GUIDELINES**

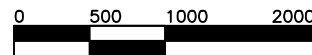
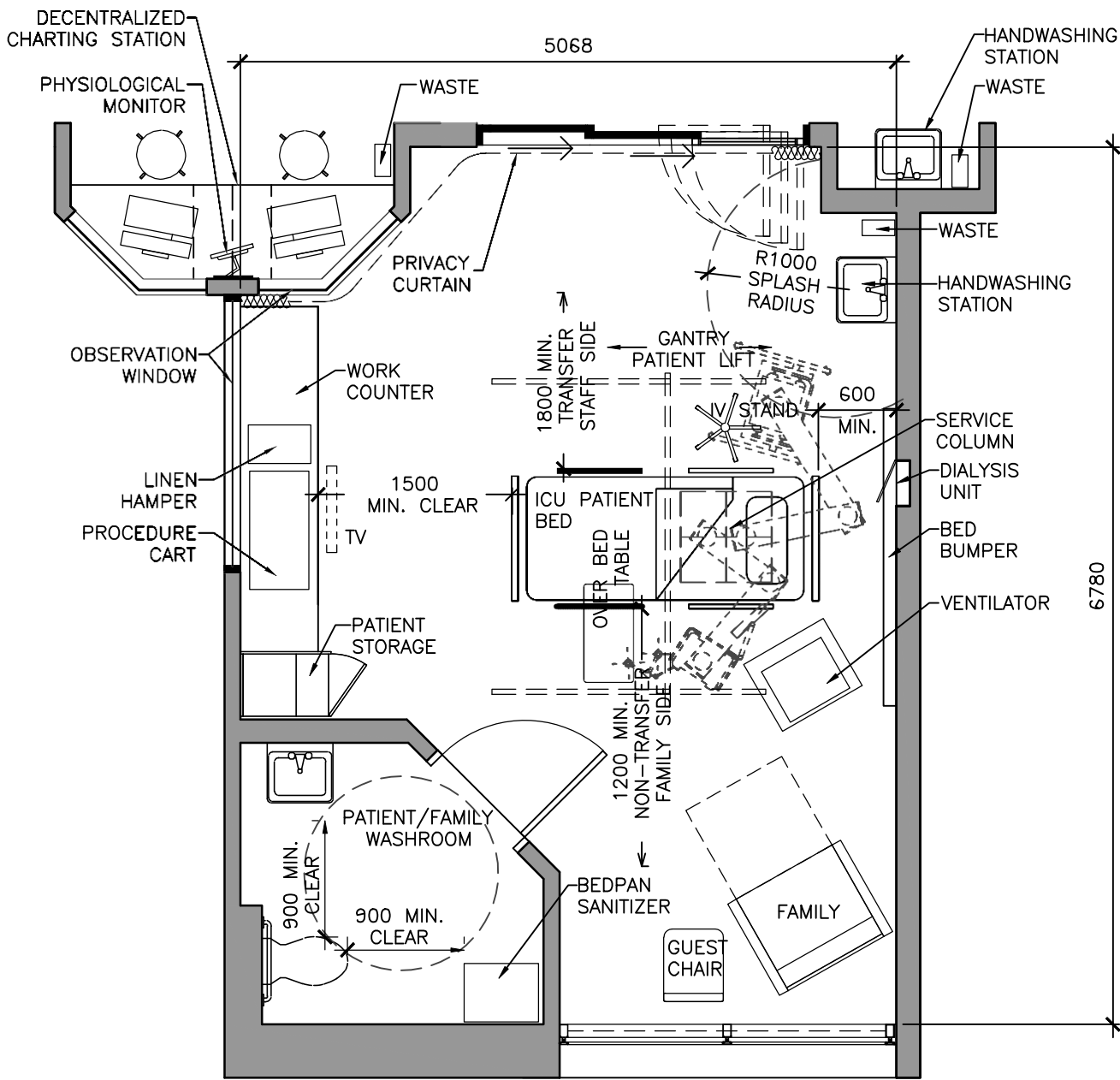
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Date | December 2014

Reference Number  
Department  
Room Name  
Page

**F-4**  
**Critical Care Unit: PICU**  
**PRIVATE BEDROOM, PICU**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





Date | **December 2014**Reference Number  
Department  
Room Name  
Page**F-5**  
**Critical Care Unit: NICU**  
**PRIVATE BED ROOM**  
**1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Critical care one to three level 2 nursing care, stabilization, resuscitation and family centered care.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1*	2-6	2		5

Assuming single infant (room may accommodate twins).

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow space along each side of incubator/infant care bed for equipment, staff, and family.

Allow family space for sleeping, storage and rocking chair

Multi-bed room: 2.44m between patient spaces; 1 hand washing station for every 2 spaces, no more than 6.1m from patient space.

**Ceiling Height**

Floor to ceiling – 2.7m minimum

3m minimum for ceiling mounted service column

**Equipment Maneuverability**

Allow room for medical carts and equipment along both sides of incubator/infant care bed.

AREA

NET AREA  
**28nsm**

Date | **December 2014**Reference Number  
Department  
Room Name  
Page**F-5**  
**Critical Care Unit: NICU**  
**PRIVATE BED ROOM**  
**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Service column	1	Medical gases, power
Privacy curtain	1	
Wall Mounted		
Hand washing station	1	1 in patient room
Physiological monitor	1	
Floor Mounted		

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Incubator/infant care bed	1	
Procedure cart	1	
Mobile equipment	1	Nitric oxide unit, ventilation equipment, high frequency oscillator
Waste receptacle	2	
Linen hamper	1	
IV stand	1	
Neonatal ventilator	1	
Cooling machine	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Family bench	1	For family, pull out to double bed
Rocking chair	1	For family
Guest chair	1	For visitor
Family storage	2	
Computer/charting station	1	In decentralized charting station
Work counter	1	In patient room
Table	1	For family

Date | **December 2014**

Reference Number  
Department  
Room Name  
Page

**F-5**  
**Critical Care Unit: NICU**  
**PRIVATE BED ROOM**  
**3 of 4**

## DESIGN CONSIDERATIONS

### CLINICAL ASSUMPTIONS

### KEY ROOM ADJACENCIES

Decentralized nursing station

### DESIGN FLEXIBILITY

Room to be flexible enough to accommodate twins.

### REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)

### REFERENCES AND GUIDELINES

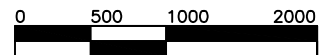
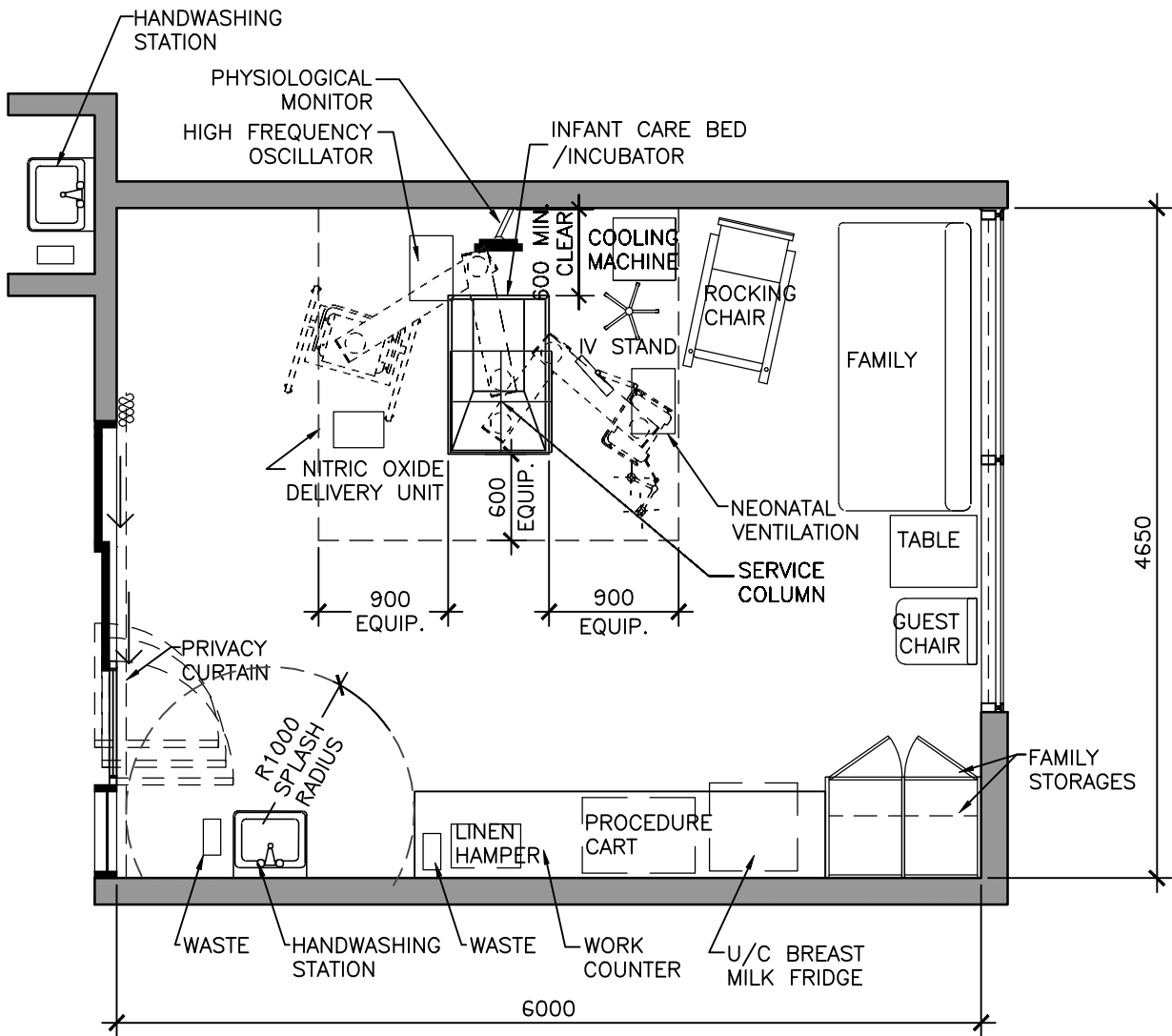
Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
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Government of Alberta Occupational Health & Safety Code Part 35 (2009)  
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AHS Infection Prevention and Control - Health Care Facility Design Guidelines and Preventive Measures for Construction, Renovation and Maintenance Activities, May 2013.  
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**F-5**  
**Critical Care Unit: NICU**  
**PRIVATE BEDROOM, NICU**  
**4 of 5**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number | **F-6**  
Department | **Critical Care Unit**  
Room Name | **PATIENT ROOM, Isolation**  
Page | **1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Critical care one-on-one nursing care, stabilization, resuscitation, isolation and family centered care

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	3	1		5

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, contact isolation, negative pressure patient room, positive pressure anteroom  
Routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow access to all sides of patient bed and maneuverability of stretcher and equipment on all sides of bed.  
Direct access to sanitization utility room or patient washroom  
Hand wash sink.  
Family area  
Ante Room with isolation supplies cart and hand wash sink.

**Ceiling Height**

Floor to ceiling - 3m minimum for ceiling mounted equipment and lights.

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of bed.  
Allow room for medical carts and equipment on both sides and head of bed.

AREA

NET AREA  
**39 nsm**

Date | **December 2014**Reference Number  
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Room Name  
Page**F-6**  
**Critical Care Unit**  
**PATIENT ROOM, Isolation**  
**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Patient lift*	1	Optional ceiling mounted patient lift
Service column*	1	Medical gases, power, monitor
Privacy curtain	1	
Exam Light	4	
Wall Mounted		
Hand washing station	3	1 in patient room, 1 in washroom, 1 in ante room
Headwall*	1	Medical gases, power
Bed bumper	1	
Dialysis cabinet	1	
Physiological monitor	2	1 on service column, 1 in decentralized charting station
Isolation supplies shelf	1	In ante room
LCD television	1	Can also be ceiling mounted
Grab Bars	Varie s	
Floor Mounted		
Bedpan sanitizer	1	In patient washroom

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient bed	1	
Procedure cart	1	
Mobile diagnostic	1	Ultrasound, ECG
Mobile treatment	1	Dialysis, ventilator, crash cart
Linen hamper	1	Outside of the room
Waste receptacle	3	
Over bed table	1	
Supply cart	1	
Isolation supplies cart	1	In ante room

Date | **December 2014**Reference Number  
Department  
Room Name  
Page**F-6**  
**Critical Care Unit**  
**PATIENT ROOM, Isolation**  
**3 of 4**

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Family sleeper/chair	1	For family
Stool	1	In decentralized charting station
Patient storage	1	For patient
Computer/charting station	1	In decentralized charting station, can be shared between pairs of rooms
Workstation	1	Counter with storage cupboard below, decentralized charting station
Step stool	1	Moved in and out as required
Work counter	2	1 in patient room, 1 in ante room

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONS

KEY ROOM ADJACENCIES	Anteroom Washroom or bedpan sanitizer utility room Decentralize carting station
-------------------------	---

DESIGN FLEXIBILITY	Allow for patient bed to be rotated within the room Allow for constantly changing equipment and technology
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REGULATIONS	National Building Code of Canada (2005) Alberta Building Code (2006)
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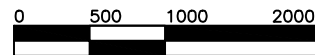
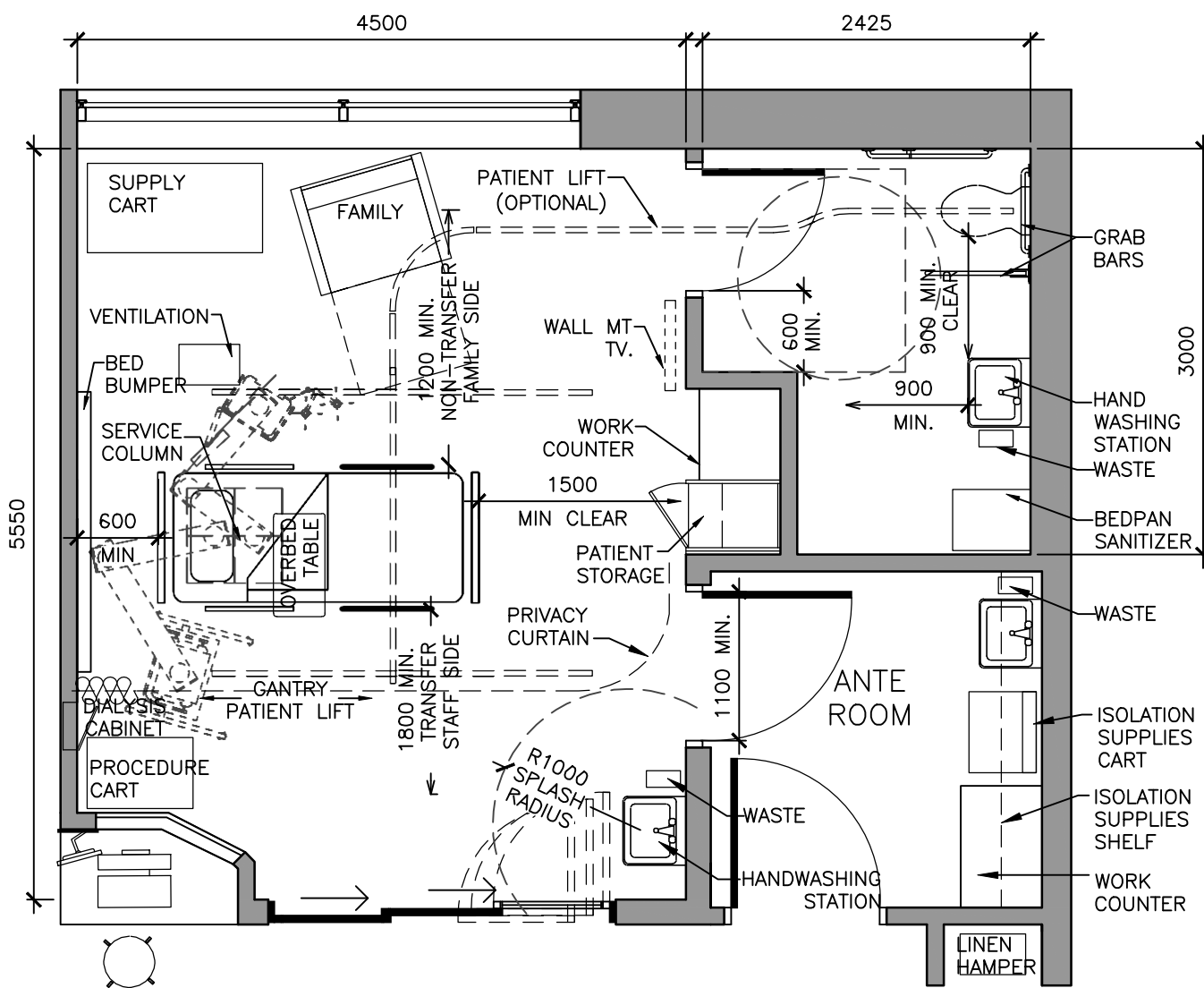
REFERENCES AND GUIDELINES	Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008) Alberta Barrier-Free Design Guide (2008) Government of Alberta Health Infection Prevention and Control Strategy and Standards (2008) Government of Alberta Occupational Health & Safety Code Part 35 (2009) AIA Guidelines for Design and Construction of Health Care Facilities (2010) PIDAC-Provincial Infectious Diseases Advisory Committee AHS Infection Prevention and Control - Health Care Facility Design Guidelines and Preventive Measures for Construction, Renovation and Maintenance Activities, May 2013. CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.)
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**Critical Care Unit**  
**PATIENT ROOM, Isolation**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





Date | **December 2014**Reference Number  
Department  
Room Name  
Page**G-1**  
**Maternal and Newborn**  
**LDR ROOM**  
**1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Acute medical and nursing care: focused on family centered care. Acceptance of different patient care models (i.e. midwifery, etc.). Accommodate potential of emergency situations to occur.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
2	5-6	2		9-10

\*includes baby

Staff numbers do not include extra staff in cases of urgent situations, teaching or education

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow for space at both sides and foot of bed for staff and equipment access.

Family area with seating and storage

**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of bed.

Allow room for mobile medical carts, patient bed and equipment.

Allow for movement of infant bassinet/incubator

AREA

NET AREA  
**38 nsm**

Date | **December 2014**Reference Number | **G-1**  
Department | **Maternal and Newborn**  
Room Name | **LDR ROOM**  
Page | **2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

<b>Ceiling Mounted</b>	<b>Qty.</b>	<b>Remarks</b>
Exam light	1	Exam/obstetric light
<b>Wall Mounted</b>		
Hand washing station	2	1 in patient room, 1 in patient washroom
Headwall	2	Medical gases, power (1 for mother, 1 for baby)
Bed bumper	2	Medical gases, power (1 for mother, 1 for baby)
Shower curtain	1	
LCD television	1	Can also be ceiling mounted
Physiological monitor	2	1 for birthing bed, 1 for bassinet/incubator
Grab bar	Varie s	
<b>Floor Mounted</b>		

## MOBILE ELEMENTS

<b>Type</b>	<b>Qty.</b>	<b>Remarks</b>
Patient birthing bed	1	
Case cart	1	
Fetal monitor	1	
Bassinet/incubator	1	With drawers
Waste receptacle	4	
Linen hamper	2	
Mobile vital sign monitor	1	
Over bed table	1	
Epidural cart	1	Not kept in room
Baby therm	1	

## FURNITURE &amp; EQUIPMENT

<b>Type</b>	<b>Qty.</b>	<b>Remarks</b>
Family bench	1	
Guest chair	2	1 for family, 1 for staff
Patient storage	1	Family storage
Computer/charting station	1	Mobile workstation
Bedside cabinet	1	For patient

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Reference Number | **G-1**  
 Department | **Maternal and Newborn**  
 Room Name | **LDR ROOM**  
 Page | **3 of 4**

**DESIGN CONSIDERATIONS**

CLINICAL  
ASSUMPTIONS

KEY ROOM | Washroom  
 ADJACENCIES

DESIGN FLEXIBILITY

REGULATIONS | National Building Code of Canada (2005)  
 Alberta Building Code (2006)

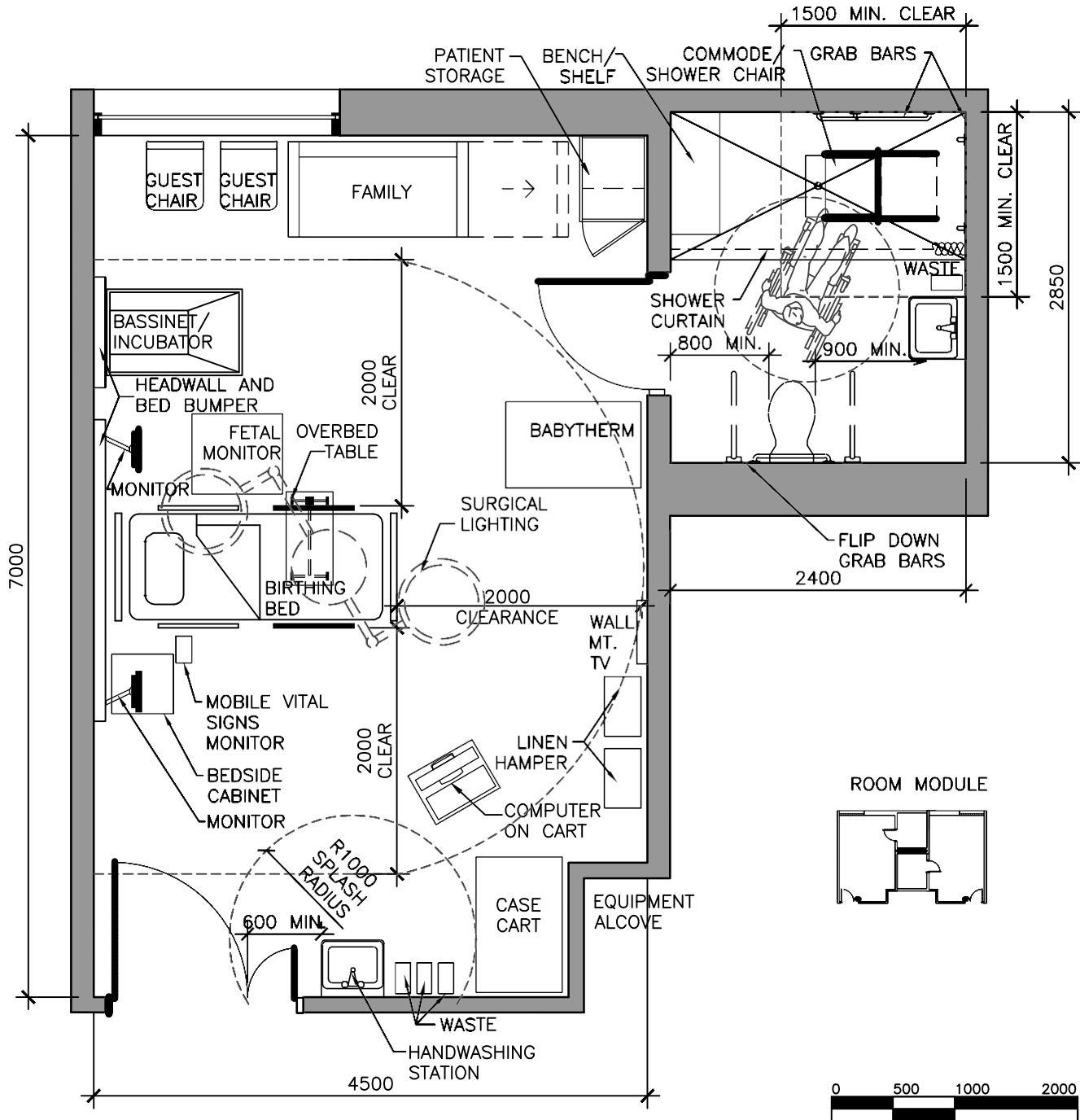
REFERENCES AND  
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**Maternal and Newborn**  
**LDR ROOM**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number  
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Room Name  
Page**G-2**  
**Maternal and Newborn**  
**OPERATIVE BIRTHING ROOM**  
**1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY** Emergent and acute care surgical operations for safe and interceptive birthing. Family centered care. Flexibility to accommodate multiple births**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:**

Surgical procedures supported by special equipment, documentation, supplies storage, physiological monitoring, general anesthesia, sedation, and resuscitation. Includes emergent as well as acute cases (scheduled c-sections)

**DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
2*	8-10	1		11-13

\*including single baby. Design to accommodate multiple births

**INFECTION CONTROL PROTOCOLS**

Hand washing station with scrub sink. Minimize number of supplies stored in room

Routine practices and additional precautions.

FFE-mask, eye protection and glove box dispenser (wall mounted)

Sharps and alcohol based hand solution.

**KEY DIMENSIONS****Room Components****Ceiling Height**

Floor to ceiling - 3m minimum for ceiling mounted service column

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of surgical table.

Allow space for surgical mobile carts and equipment on side of surgical table.

Allow space for multiple 'Infant Care Centres' in the cases of multiple births

AREA

NET AREA  
**60 nsm**

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Page

**G-2****Maternal and Newborn****OPERATIVE BIRTHING ROOM****2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

<b>Ceiling Mounted</b>	<b>Qty.</b>	<b>Remarks</b>
Service column	1	Medical gases, power
Surgical light	1	
Anesthesia gas column	1	
Physiological monitors	1	On service column
<b>Wall Mounted</b>		
Supply cabinet	2	
Headwall	2	1 headwall per "infant care centre"
Communication cabinet	1	
Scrub sink	2	In scrub alcove
<b>Floor Mounted</b>		
Anesthesia C-Locker	1	

## MOBILE ELEMENTS

<b>Type</b>	<b>Qty.</b>	<b>Remarks</b>
Surgical table	1	
Prep table	1	
Anesthesia cart & machine	1	
Resuscitation cart	1	
Infant care centre	2	Include mobile infant scale & warmer, transfer for newborns,
Waste receptacle	2	1 in scrub alcove, 1 in delivery room
Linen hamper	1	
Case cart	1	
Blanket warmer	1	
Layout table	1	
Mayo cart	2	
Epidural cart	1	
Electrosurgical unit	1	
Hypothermia unit	1	
Fluid & Blood warmer	1	
Kick bucket	1	
Suction machine	1	
Fetal monitor	1	

Date | **December 2014**Reference Number  
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Room Name  
Page**G-2**  
**Maternal and Newborn**  
**OPERATIVE BIRTHING ROOM**  
**3 of 4**

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Computer/charting station	1	Counter with storage cupboards, 2 computers
Stool	2	For OR nurse
Anesthesia stool	1	
Task chair	1	
Family chair	1	

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONS

Premature/ distressed babies born to be stabilized in OR and / in adjacent infant resuscitation area

KEY ROOM  
ADJACENCIESScrub area  
Sub-sterile room  
Infant resuscitation area

## DESIGN FLEXIBILITY

Allow for multiple births

## REGULATIONS

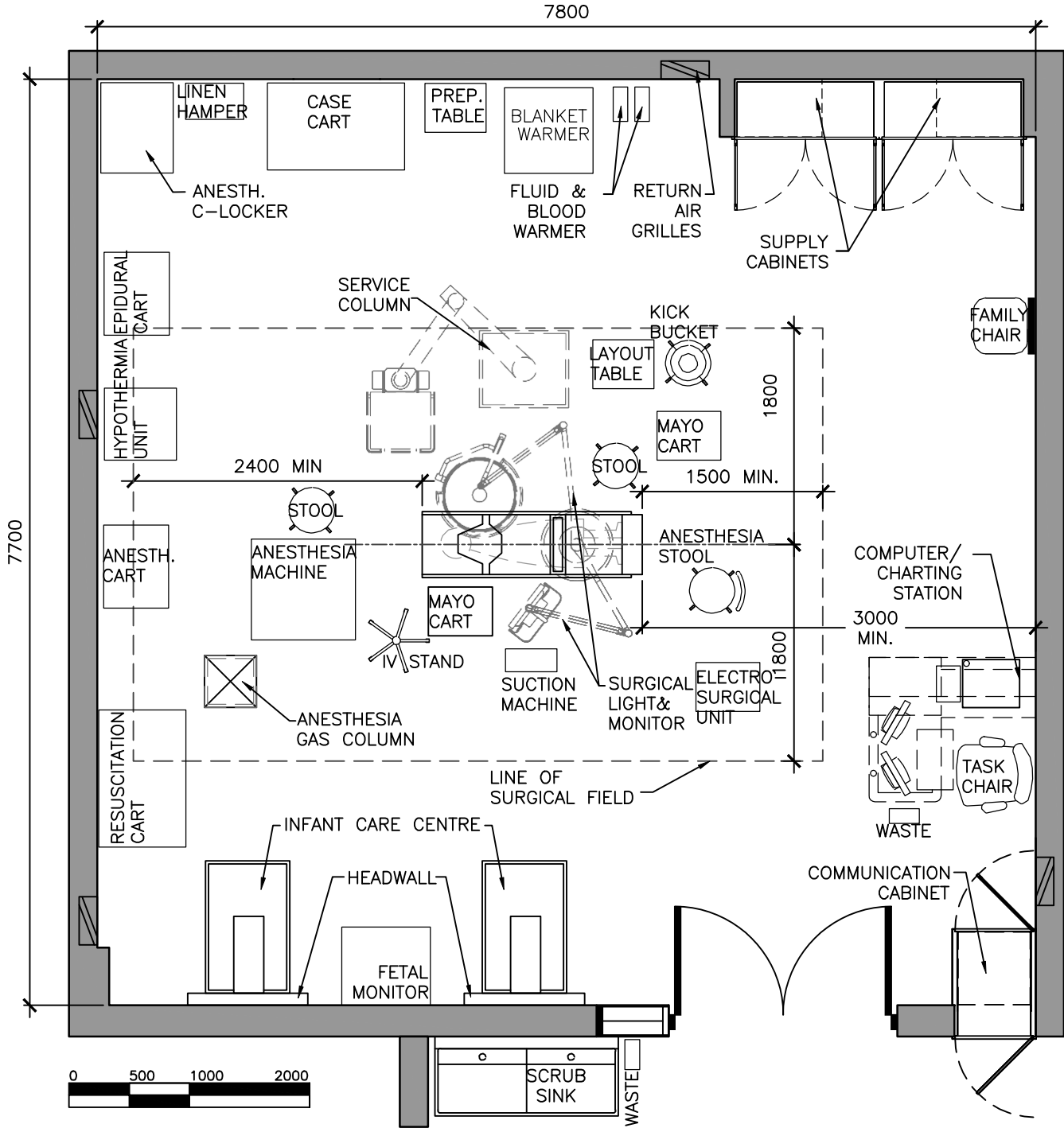
National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINESOntario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
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**Maternal and Newborn**  
**OPERATIVE BIRTHING ROOM**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





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Reference Number

**G-3**

Department

**Labour and Delivery**

Room Name

**SEMI PRIVATE ROOM,****Post-partum**

Page

**1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY**

Medical and nursing care: focused on family centered care, a decentralized nursing station and a semi private room.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
4*	3	2		9

\*includes baby

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow approximately 9m<sup>2</sup> patient care zone. (Per patient)  
Allow for shared patient washroom with shower/tub.  
Allow for space on either side of patient bed for bassinet and family chair.  
Minimum 2m separation between patients (beds).

**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of bed.  
Allow room for medical mobile carts and equipment on either side of bed.

AREA

NET AREA  
**49 nsm (Incl. WC)**

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Room Name

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G-3

Labour and Delivery

SEMI PRIVATE ROOM,

Post-partum

2 of 4

**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Patient lift*	2	Optional ceiling mounted patient lift
Privacy curtain	2	
Wall Mounted		
Hand washing station	1	
Headwall	2	Medical gases, power
Bed bumper	2	
Physiological monitor	2	
Shower curtain	2	
Grab bar	Varie s	
LCD television	2	Can also be ceiling mounted
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient bed	2	
Waste receptacle	6	
Mobile chart rack	1	In decentralized charting station
Over bed table	2	
Linen hamper	1	
Commode/shower chair	2	In patient washroom

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Guest chair	2	For family
Computer / charting station	1	In decentralized charting station
Workstation	1	Counter with storage cupboards in decentralized charting station
Patient storage	2	
Bedside cabinet	2	For patient
Bassinet	2	
Step stool	2	
Task chair	1	
Supply storage	2	In decentralized station

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Reference Number

**G-3**

Department

**Labour and Delivery**

Room Name

**SEMI PRIVATE ROOM,****Post-partum**

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**3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONSKEY ROOM  
ADJACENCIES2 washrooms  
Decentralized charting station

## DESIGN FLEXIBILITY

## REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINES

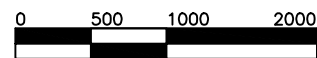
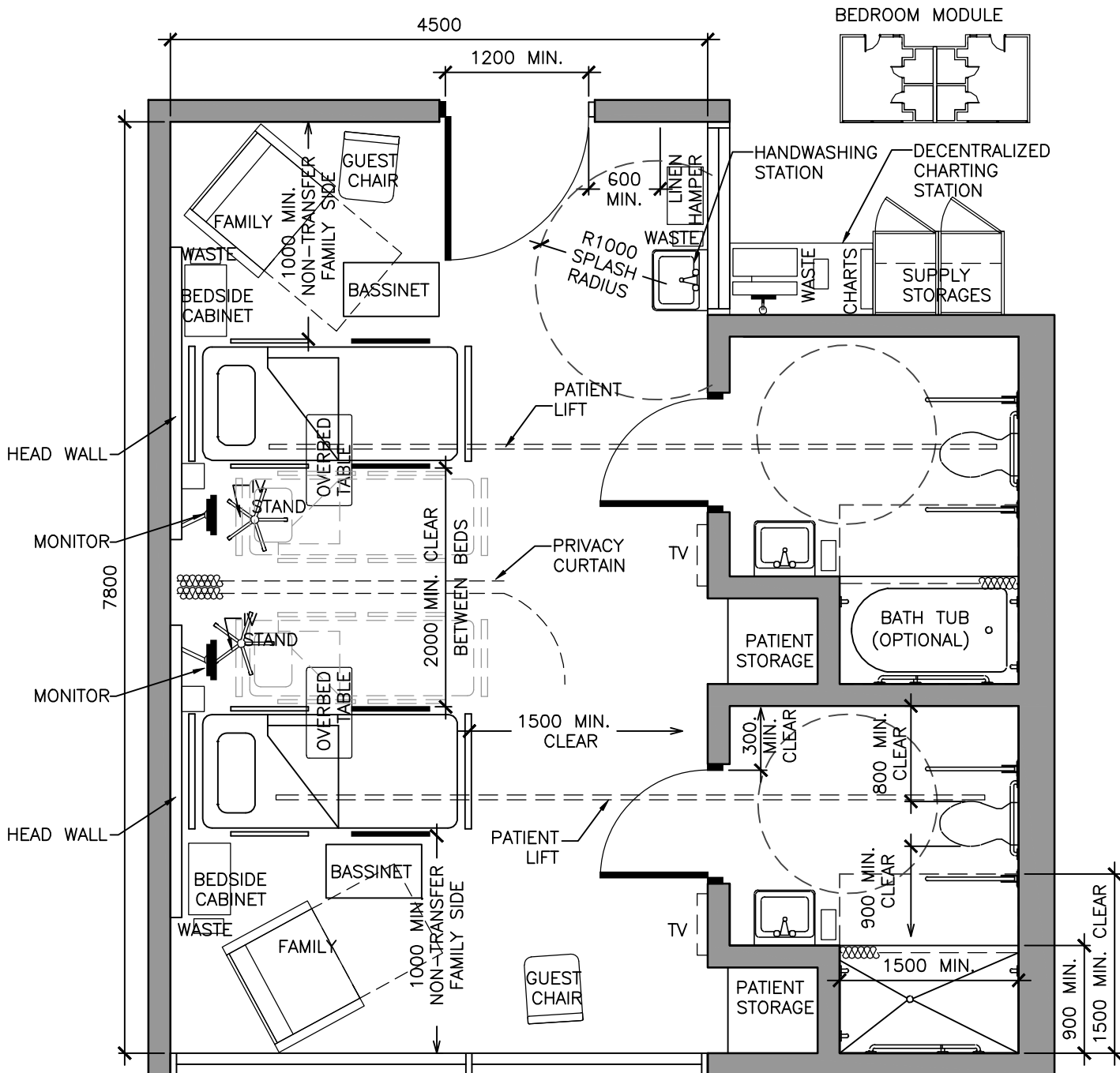
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**G-3**  
**Maternal and Newborn**  
**Post-partum, Semi-Private**  
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Date | **December 2014**Reference Number  
Department  
Room Name  
Page**G-4**  
**Maternal and Newborn**  
**PRIVATE BED ROOM, Post-partum**  
**1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Medical and nursing care: focused on family centered care, a decentralized nursing station. Acceptance of different patient care models (i.e. midwifery, etc.).

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
2	1-2	2-4		5-8

\*includes baby

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, routine practices and additional precautions, FFE-mask, eye protection and glove box dispenser (wall mounted). Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow minimum 9m<sup>2</sup> patient care zone.  
Allow minimum 900mm clear on each side of bed.  
Allow for patient washroom with shower/tub.  
Allow for space on either side of patient bed for bassinet and family chair.

**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of bed.  
Allow room for medical mobile carts and equipment on either side of bed.

AREA

NET AREA  
**28.5 nsm**

Date | **December 2014**Reference Number  
Department  
Room Name  
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**Maternal and Newborn**  
**PRIVATE BED ROOM, Post-partum**  
**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Privacy curtain	1	
Privacy blinds	1	
Wall Mounted		
Hand washing station	2	1 in patient room, 1 in patient washroom
Headwall	1	Medical gases, power
Bed bumper	1	
Physiological monitor	1	
Grab bar	2	
LCD television	1	
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient bed	1	
Linen hamper	1	
Bassinet	1	
IV stand	1	
Over bed table	1	
Baby change station	1	Not kept in room

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Family sleeper/chair	1	For family
Patient storage	1	
Bedside cabinet	1	
Task stool	1	
Guest chair	1	
Rocking Chair	1	
Commode / shower chair	1	In patient washroom
Computer / charting station	1	In decentralized charting station
Coat hooks	1	
Supply storage	1	

Date | **December 2014**Reference Number  
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**Maternal and Newborn**  
**PRIVATE BED ROOM, Post-partum**  
**3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONSKEY ROOM  
ADJACENCIESWashroom  
Decentralized nurse charting station

DESIGN FLEXIBILITY

REGULATIONS

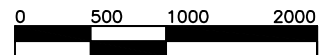
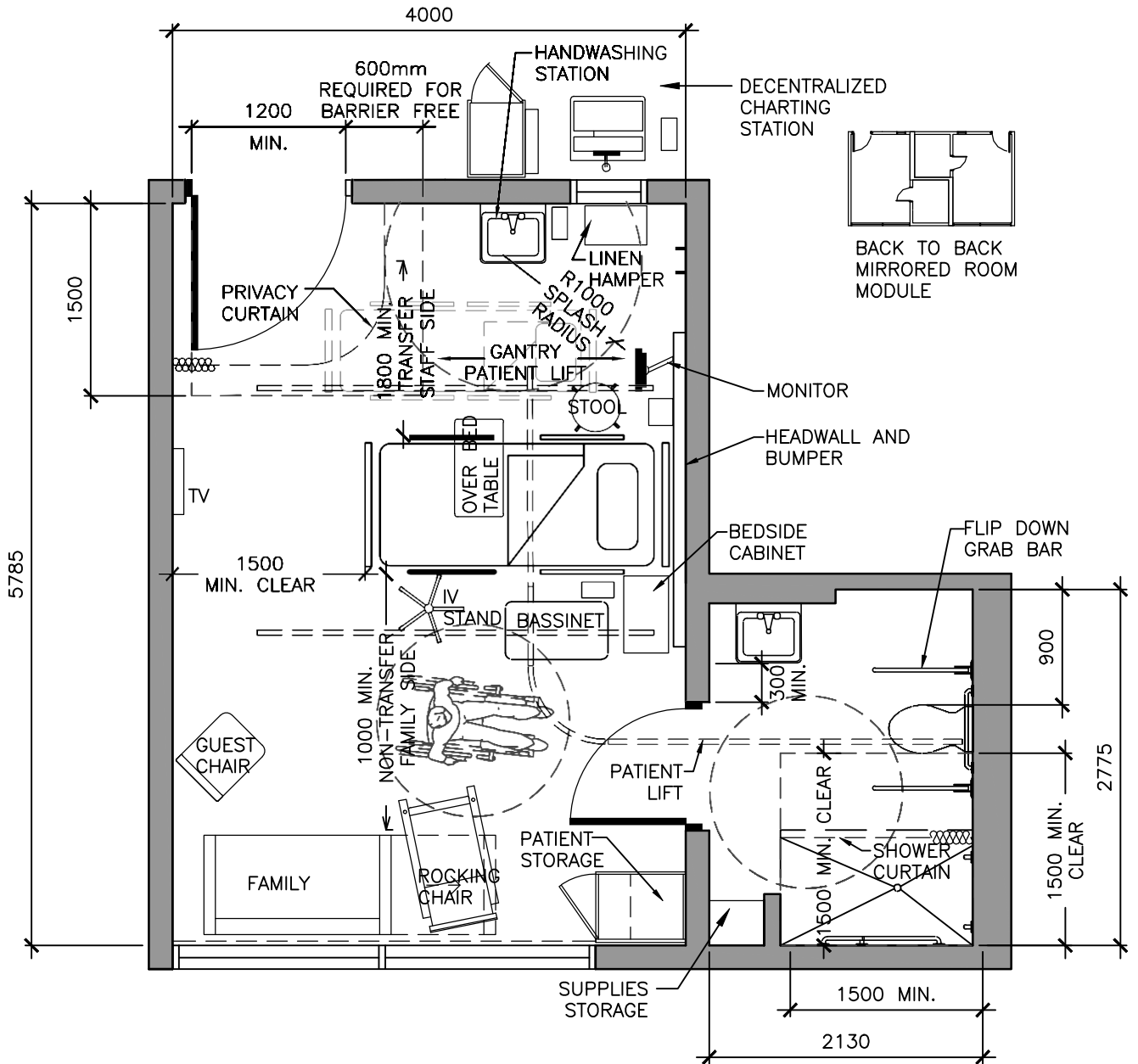
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**G-4**  
**Maternal and Newborn**  
**PRIVATE BEDROOM, Post-Partum**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





Date | **December 2014**Reference Number  
Department  
Room Name  
Page**H-1**  
**Surgical Suite**  
**OPERATING ROOM, General**  
**1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY** Surgical Services. Standardization and flexibility of rooms, lean efficient processes and workflow, sterile clean operating environment**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	7			8

Minimum 4 staff, maximum 10 staff, dependant on specific cases and teaching requirement

**KEY INFECTION  
CONTROL PROTOCOLS**

Hand washing station with scrub sinks.  
 Minimize number of supplies stored in room (central supply storage)  
 Routine practices and additional precautions.  
 FFE-mask, eye protection and glove box dispenser (wall mounted).  
 Sharps and alcohol based hand solution

**KEY DIMENSIONS****Room Components**

Allow 1m X 2.5m patient zone centered on surgical table.  
 Allow an additional 2m perimeter around surgical table for staff and case specific equipment including fixed ceiling mounted equipment.  
 Allow for 1.5 m general circulation around surgical area  
 Around perimeter of room allow for supplies, carts and other equipment.  
 Allow for separate charge nurse control area with direct view to surgical field.  
 Allow for separate anesthesia/respiratory areas within the surgical area.

**Ceiling Height**

Floor to ceiling - 3m minimum or as required by equipment vendor.

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of surgical table.  
 Allow room for medical mobile carts.

AREA

NET AREA  
**60 nsm**

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Surgical Suite  
OPERATING ROOM, General  
2 of 4**EQUIPMENT/SERVICES\***

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Anesthesia gas column	1	For use by anesthesia
Surgical lighting	2	2 dual headed ceiling mounted fixtures
Service column	1	
Monitors*	4	
Video camera*	2	Optional part of surgical lighting system
Wall Mounted		
PACS system*	1	Optional component of OR integration system
Monitor	1	Large format wall monitor
Video camera*	2	
Scrub sink	1	Outside of room
Floor Mounted		
Surgical table*	1	
Supply storage	2	Stainless steel

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Anesthesia cart & machine	1	
Supply cart	3	
Mobile diagnostic	1	C-arm, ultrasound; moves in and out of room as needed
Preparation table	1	
Back table	2	
Mayo stand	1	
Quarter back table	2	
Case cart	1-3	Varies
Suture cart	1	
Linen hamper	2	
Mobile operating microscope	1	
Kick bucket	1	
Double basin stand	1	
Single basin stand	1	
Utility table	1	
Blood warmer	1	
Blanket warmer	1	
Patient warmer	1	
Waste receptacle	6	
IV stand	2	

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**Surgical Suite**  
**OPERATING ROOM, General**  
**3 of 4**

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Computer workstation	1	Charge nurse workstation, 2 computers
Anesthesia stool	1	
Stool with back & footrest	2	For physicians
Step stool	4	
Task chair	2	Charting station

\*Equipment can vary greatly depending on type of case.

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONS

Immediate access to CSR department  
 Patient induction in OR  
 Sterile storage model  
 Does not accommodate pediatric procedures  
 Does not accommodate airborne isolation patients (additional room type with anteroom)

KEY ROOM  
ADJACENCIES

Scrub area  
 Stretcher alcove  
 Crash cart alcove  
 Malignant hypothermia alcove

## DESIGN FLEXIBILITY

Design must accommodate variety of procedure types, equipment & changing equipment technology

## REGULATIONS

National Building Code of Canada (2005)  
 Alberta Building Code (2006)

REFERENCES AND  
GUIDELINES

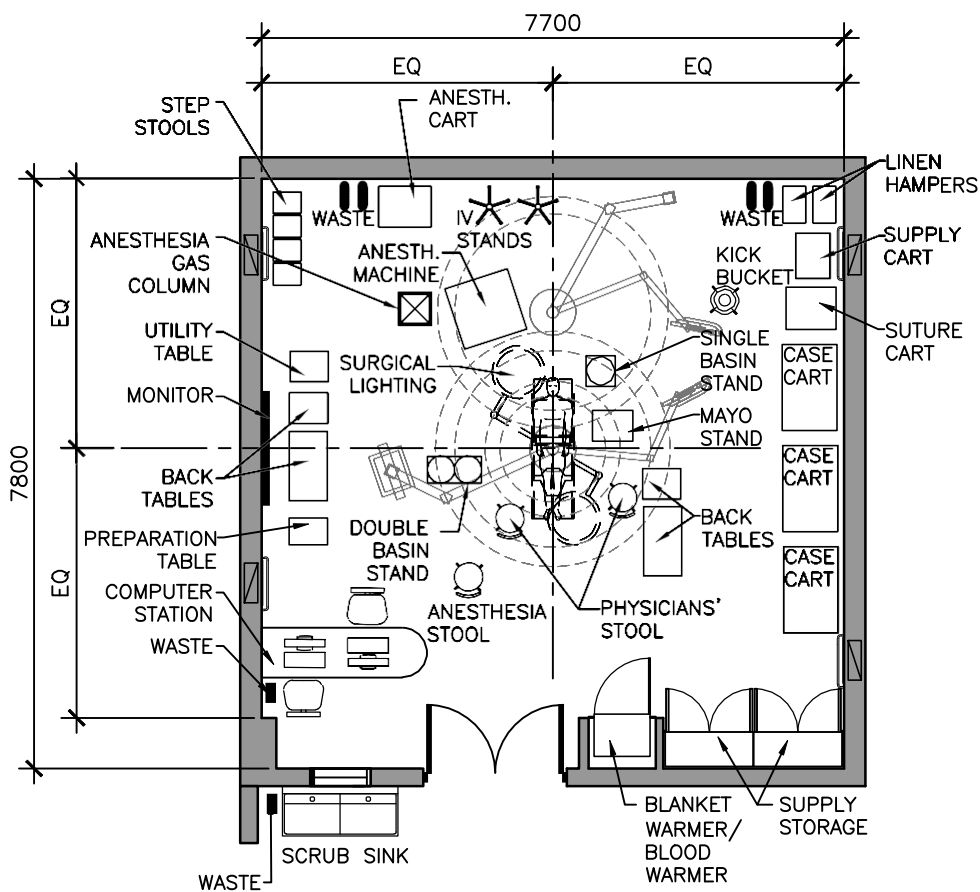
Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
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 AHS Infection Prevention and Control - Health Care Facility Design Guidelines and Preventive Measures for Construction, Renovation and Maintenance Activities, May 2013.  
 CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.

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**Surgical Suite**  
**OPERATING ROOM, GENERAL**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



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Reference Number  
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PageH-2  
Surgical Suite  
OPERATING ROOM, Special  
1 of 5**PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Surgical Services. Standardization and flexibility of rooms, lean efficient processes and workflow, sterile clean operating environment

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	6-12			7-13

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with scrub sinks.  
Minimize number of supplies stored in room (central supply storage).  
Routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution

**KEY DIMENSIONS****Room Components**

Allow 1m X 2.5m patient zone centered on fixed surgical table.  
Allow an additional 2.5m perimeter around surgical table for staff and case specific equipment including fixed ceiling mounted equipment.  
Allow for 1.5 m general circulation around surgical area  
Around perimeter of room allow for supplies, carts and other equipment.  
Allow for separate charge nurse control area with direct view to the surgical field.

Allow for separate anesthesia/respiratory areas within the surgical area.

**Ceiling Height**

Floor to ceiling - 3m minimum or as required by equipment vendor.

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of surgical table.  
Allow room for medical mobile carts.

AREA

NET AREA  
70 nsm

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**Surgical Suite**  
**OPERATING ROOM, Special**  
**2 of 5****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

<b>Ceiling Mounted</b>	<b>Qty.</b>	<b>Remarks</b>
Anesthesia gas column	1	For use by anesthesia
Surgical light	2	2 dual headed ceiling mounted fixtures
Surgical column	1	
Monitors*	4	
Video camera*	2	Optional component of surgical lighting system
<b>Wall Mounted</b>		
PACS system*	1	Optional component, could be part of the OR integration system
Monitor*	1	Large format wall monitor
Integration cabinet	1	Integration system components (optional)
Video camera*	2	
Scrub sink	1	Outside of room
<b>Floor Mounted</b>		
Surgical table*	1	
Supply storage	2	Stainless steel

\*optional

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**Surgical Suite**  
**OPERATING ROOM, Special**  
**3 of 5**

## MOBILE ELEMENTS

Type	Qty.	Remarks
Anesthesia cart & machine	1	
Supply cart	3	
Mobile diagnostic	1	C-arm, ultrasound
Mobile case cart	4	
Preparation table	1	
Back table	2	Large
Instrument table	1	
Mayo stand	1	
Quarter back table	2	
Suture cart	1	
Linen hamper	2	
Mobile operating microscope	1	
Kick bucket	1	
Utility table	1	
Double basin stand	1	
Single basin stand	1	
Blood warmer	1	
Blanket warmer	1	
Waste receptacle	6	
IV stand	2	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Task chair	2	For charting station
Computer workstation	1	Charge nurse workstation, 2 computers
Anesthesia stool	1	
Stool with back & footrest	2	For physicians
Step stool	4	

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**Surgical Suite**  
**OPERATING ROOM, Special**  
**4 of 5****DESIGN CONSIDERATIONS****CLINICAL  
ASSUMPTIONS**

Does not accommodate trauma procedures or interventional OR  
 Immediate access to CSR department  
 Patient induction in OR  
 Central sterile storage model  
 Does not accommodate pediatric procedures  
 Does not accommodate airborne isolation patients (additional room type with anteroom)

**KEY ROOM  
ADJACENCIES**

Scrub area  
 Stretcher alcove  
 Crash cart alcove  
 Malignant hypothermia alcove  
 Control room / pump room (optional / site specific)

**DESIGN FLEXIBILITY**

Generic size for surgical procedures that require larger and/or more equipment/case carts, as well as increased staff numbers

**REGULATIONS**

National Building Code of Canada (2005)  
 Alberta Building Code (2006)

**REFERENCES AND  
GUIDELINES**

Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
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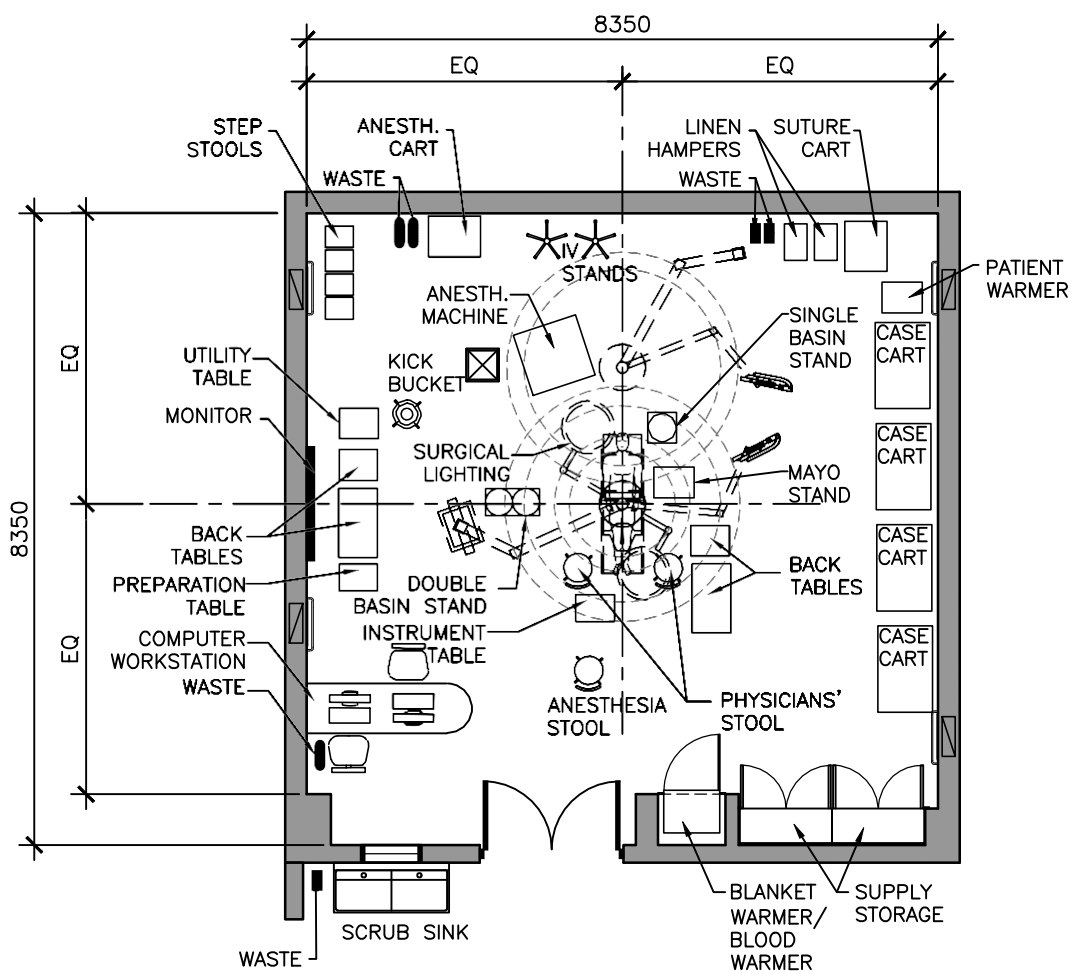


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**Surgical Suite**  
**OPERATING ROOM, SPECIAL**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE





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**I-1**  
**Rehabilitation Medicine**  
**PRIVATE BEDROOM, Rehab,**  
**Isolation**  
**1 of 4**

## PLANNING ASSUMPTIONS

**PATIENT CARE PHILOSOPHY** Medical and nursing care: provision for family centered care.

### KEY FUNCTIONS

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

### DESIGN OCCUPANCY

Patient	Staff	Family	Other	Total
1	1	1		3

### KEY INFECTION CONTROL PROTOCOLS

Hand washing station with 1000mm clear splash radius, contactisolation, negative pressure patient room, positive pressure anteroom, private washroom  
 Routine practices and additional precautions,  
 FFE-mask, eye protection and glove box dispenser (wall mounted).  
 Sharps and alcohol based hand solution (wall mounted at point of care)

### KEY DIMENSIONS

#### Room Components

Allow 12m<sup>2</sup> for patient care zone.

Provide a 1500mm wide work zone on the right hand side of the patient bed.

#### Ceiling Height

Floor to ceiling – 2.7m minimum

#### Equipment Maneuverability

Allow for patient transfer from stretcher to either side of bed.

Allow room for medical mobile carts and equipment on either side of bed.

AREA

NET AREA  
**35nsm**

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Rehabilitation Medicine

PRIVATE BEDROOM, Rehab,  
Isolation

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**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Patient lift	1	
Privacy curtain	1	
Wall Mounted		
Hand washing station	2	1 in anteroom, 1 in private bedroom
Lighting	1	On to headwall
Headwall	1	Medical gases, power, monitor
Bed bumper	1	
LCD television	1	Can also be ceiling mounted
Shower curtain	1	
Grab bar	Varie s	Grab bars at toilet and shower
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Single patient bed	1	
Mobile diagnostic	1	Ultrasound, not kept in room
Over bed table	1	
Linen hamper	2	1 in patient room, 1 in outside of anteroom
Waste receptacle	4	
Patient walker *	1	
Wheel chair*	1	

\*optional

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Isolation supplies shelf	1	In ante room
Desk	1	Patient use
Reclining chair	1	Family use
Task chair	1	Patient use
Guest chair		
Patient storage	1	Patient use, with side table
Bedside cabinet	1	Patient use
Commode/shower chair	1	Moved in and out of room as required.

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Rehabilitation Medicine  
PRIVATE BEDROOM, Rehab,  
Isolation**

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**DESIGN CONSIDERATIONS**

CLINICAL  
ASSUMPTIONS

KEY ROOM  
ADJACENCIES

Washroom  
Anteroom

DESIGN FLEXIBILITY

REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)

REFERENCES AND  
GUIDELINES

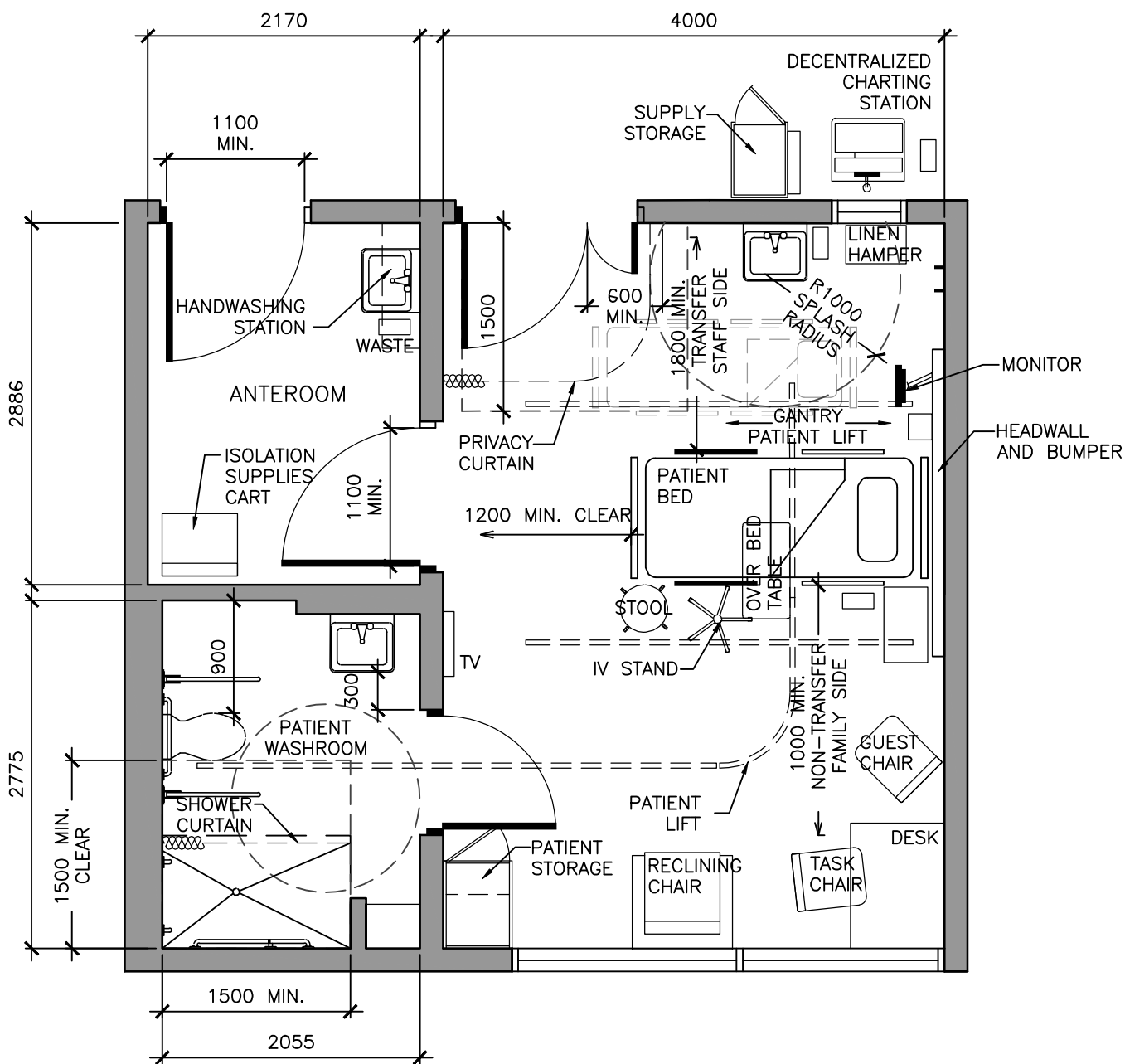
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**Rehabilitation Medicine**  
**PRIVATE BEDROOM, Isolation**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



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**Rehabilitation Medicine**  
**PRIVATE BEDROOM, Rehab**  
**1 of 4****PLANNING ASSUMPTIONS**

PATIENT CARE PHILOSOPHY      Medical and nursing care: provision for family centered care.

## KEY FUNCTIONS

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:**

Rehabilitation treatment, storage (personal and supply) and rooming-in

## DESIGN OCCUPANCY

Patient	Staff	Family	Other	Total
1	1	1		3

KEY INFECTION  
CONTROL PROTOCOLS

Hand washing station with 1000mm clear splash radius, routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution (wall mounted at point of care)

## KEY DIMENSIONS

**Room Components**Allow 12m<sup>2</sup> for patient care zone.

Provide a 1500mm wide work zone on the right hand side of the patient bed.

**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of bed.

Allow room for medical mobile carts on either side of bed.

AREA

NET AREA  
**28.5 nsm**

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Rehabilitation Medicine  
PRIVATE BEDROOM, Rehab  
2 of 4**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Patient lift	1	
Privacy curtain	1	
Wall Mounted		
Hand washing station	1	
Lighting	1	On to headwall
Headwall	1	Medical gases, power, monitor
Bed bumper	1	
LCD Television	1	
Grab bar	Varie s	Grab bars at toilet and shower.
Shower curtain	1	
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Single patient bed	1	
Supply cart	1	Moved in and out as required
Mobile diagnostic	1	Ultrasound. Moved in and out as required
Over bed table	1	
Linen hamper	1	
Waste receptacle	3	
Step stool	1	
Patient walker *	1	
Wheel chair*	1	

\*optional

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Desk	1	
Task chair	1	
Guest chair	1	
Reclining chair	1	Family use
Patient storage	1	With side table
Bedside cabinet	1	
Commode / shower chair	1	



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**Rehabilitation Medicine**  
**PRIVATE BEDROOM, Rehab**  
**3 of 4**

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONS

KEY ROOM  
ADJACENCIES

Washroom

DESIGN FLEXIBILITY

REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)

REFERENCES AND  
GUIDELINES

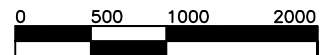
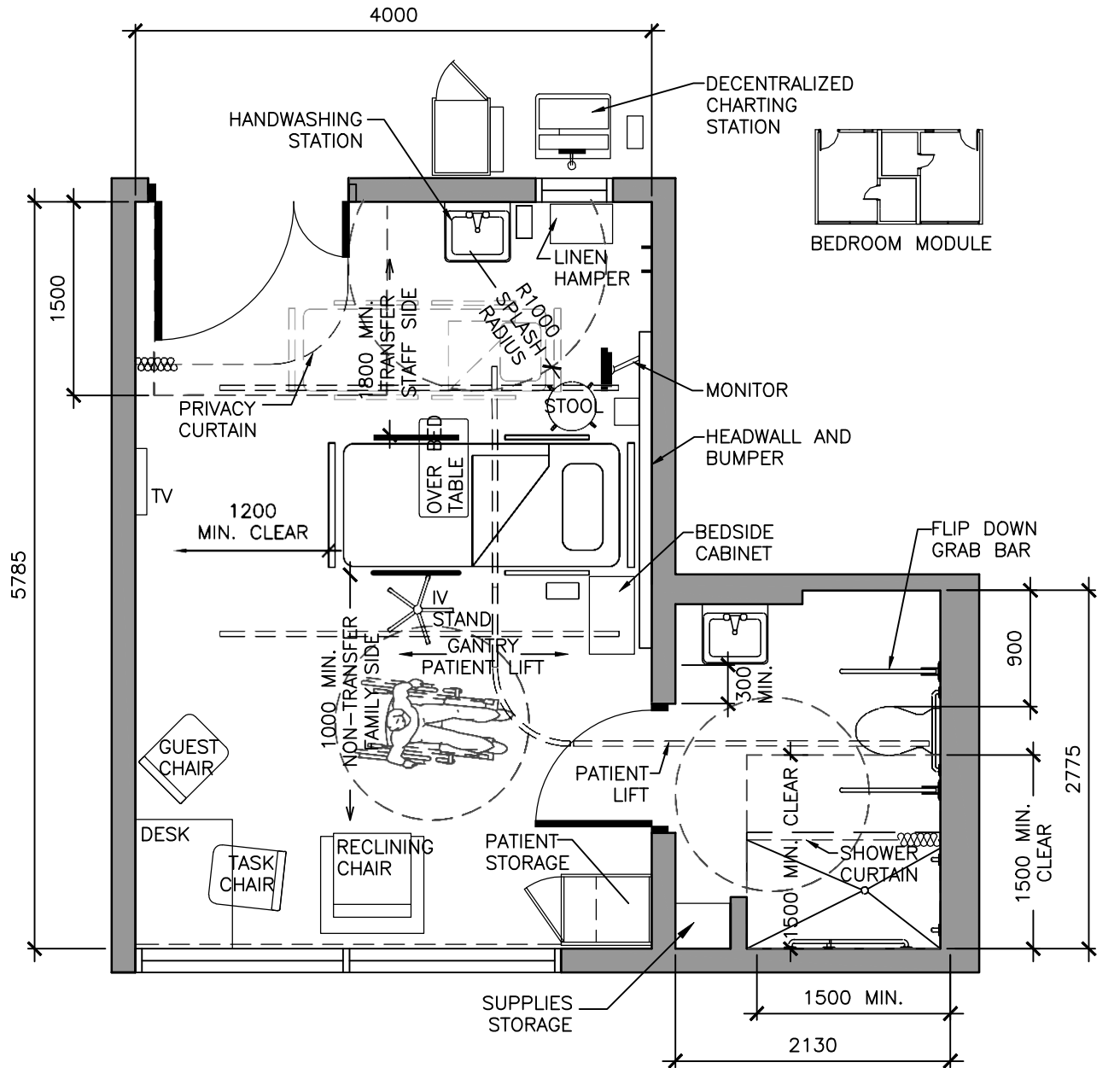
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number  
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Page**I-3**  
**Rehabilitation Medicine**  
**SEMI PRIVATE BEDROOM, Rehab**  
**1 of 4****PLANNING ASSUMPTIONS**

PATIENT CARE PHILOSOPHY      Medical and nursing care: provision for family centered care.

## KEY FUNCTIONS

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

## DESIGN OCCUPANCY

Patient	Staff	Family	Other	Total
2	2	2		6

KEY INFECTION  
CONTROL PROTOCOLS

Hand washing station with 1000mm clear splash radius, routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution (wall mounted at point of care)

## KEY DIMENSIONS

**Room Components**

Allow 12m<sup>2</sup> for patient care zone.  
Provide a 1500mm wide work zone on side of the patient bed.  
Minimum 2m separation between patients (beds).

**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of bed.  
Allow room for medical mobile carts on either side of bed.

AREA

NET AREA  
**49 nsm**

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Reference Number  
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Rehabilitation Medicine  
SEMI PRIVATE BEDROOM, Rehab  
2 of 4**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Patient lift	2	
Privacy curtain	2	
Wall Mounted		
Hand washing station	3	1 in patient room, 2 in washrooms
Lighting	2	On to headwall
Headwall	2	Medical gases, power
Bed bumper	2	
Physiological monitor	2	
Grab bars	2	
Shower curtain	2	
LCD television	2	Can also be ceiling mounted.
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Single patient bed	2	
Supply cart	1	Move in and out as required
Mobile diagnostic	1	Ultrasound (not kept within room)
Mobile treatment	1	Dialysis (not kept within room)
Waste receptacle	6	
Over bed table	2	
IV stand	1	
Med prep cart		

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Guest chair	2	Family use
Reclining chair	2	Family use
Patient storage	2	Patient use,
Bedside cabinet	2	Patient use
Commode/shower chair	2	In patient washroom
Supply storage	2	In decentralized charting station
Computer/charting station	1	In decentralized charting station
Work station	1	Counter with storage cupboards , in decentralized charting station

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Rehabilitation Medicine  
SEMI PRIVATE BEDROOM, Rehab  
3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONSKEY ROOM  
ADJACENCIES  
2 washrooms  
Decentralized charting station

DESIGN FLEXIBILITY

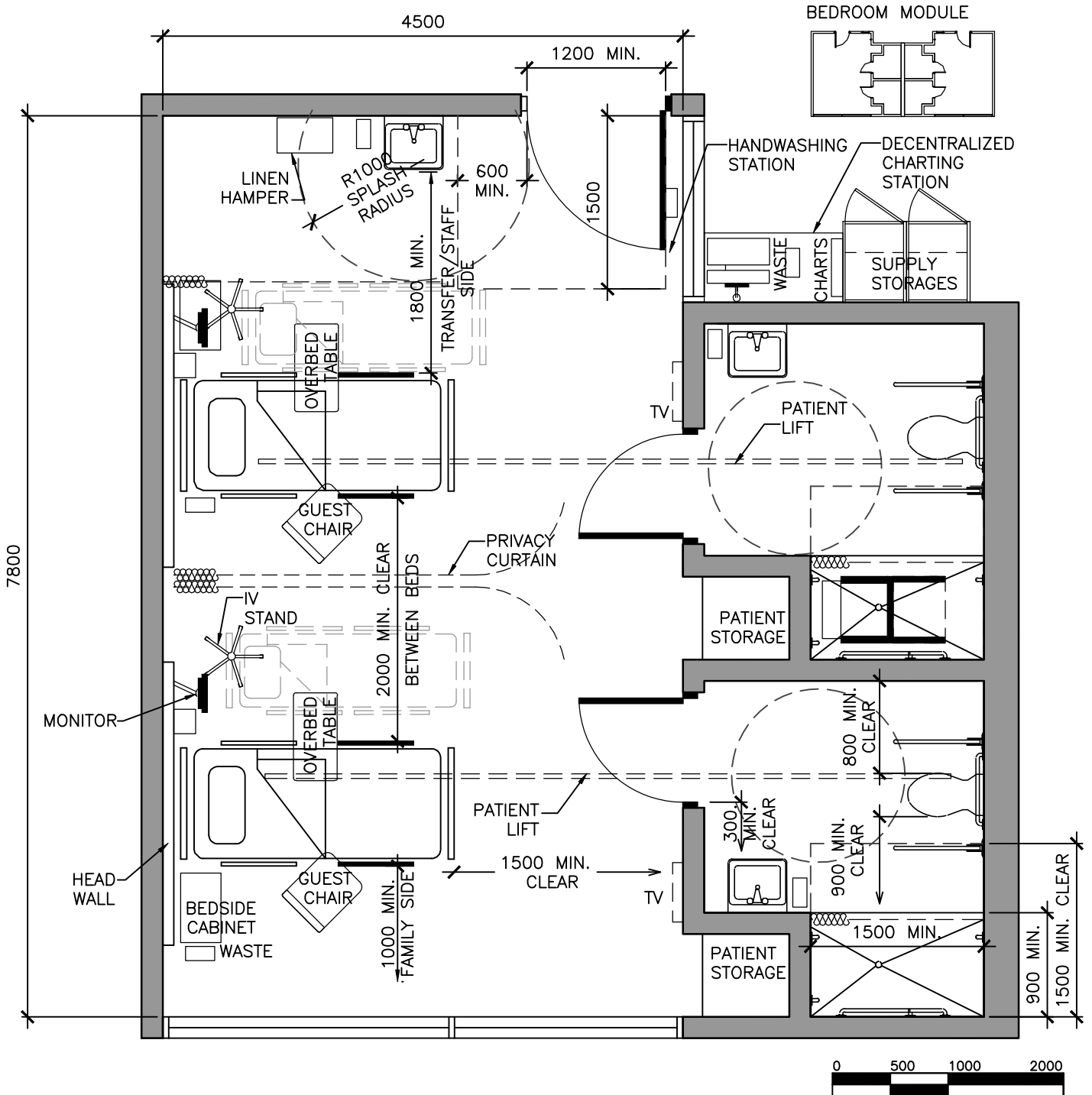
REGULATIONS  
National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINESOntario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
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**SEMI PRIVATE BEDROOM, Rehab**  
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



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**J-1**

Department

**Mental Health and Addictions**

Room Name

**PRIVATE BEDROOM, Isolation**

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**1 of 4****PLANNING ASSUMPTIONS**

PATIENT CARE PHILOSOPHY     Safe and secure psychiatric, medical and nursing care.

## KEY FUNCTIONS

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

## DESIGN OCCUPANCY

Patient	Staff	Family	Other	Total
1	6			7

KEY INFECTION  
CONTROL PROTOCOLS

Hand washing station with 1000mm clear splash radius., contact isolation, negative pressure patient room, positive pressure anteroom, private washroom  
Routine practices and additional precautions  
Alcohol based hand solution (outside of the room)

## KEY DIMENSIONS

**Room Components**

Allow for anteroom and private washroom.

**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of bed.

Allow room for medical mobile carts on either side of bed.

Allow for single (recessed) patient lift ceiling mounted track

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**24 nsm**

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Room Name

**PRIVATE BEDROOM, Isolation**

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**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Patient lift	1	Single recessed rail, mental health certified
Observation camera	1	
Wall Mounted		
Grab bar	Varie s	Tamper proof, mental health certified
Privacy screen	1	Translucent, tamper proof, mental health certified
Head wall	1	Recessed, lockable
Hand washing station	2	1 in ante room, 1 in patient washroom
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient bed	1	Mental health certified
Isolation supply cart	1	In ante room
Linen hamper	1	Outside of room

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Desk	1	Family use
Task chair	2	1 in observation area, 1 in patient room
Patient storage	1	Patient use
Bedside cabinet	1	Patient use
Commode/shower chair	1	Tamper proof, mental health certified
Work counter	1	At observation area



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**3 of 4****DESIGN CONSIDERATIONS****CLINICAL  
ASSUMPTIONS**

High (critical) patient observation  
 Decentralized nursing care  
 Tamper proof mental health certified bathroom fixtures and plumbing

**KEY ROOM  
ADJACENCIES**

Patient washroom – (must be visible from observation desk)  
 Anteroom

**DESIGN FLEXIBILITY****REGULATIONS**

National Building Code of Canada (2005)  
 Alberta Building Code (2006)

**REFERENCES AND  
GUIDELINES**

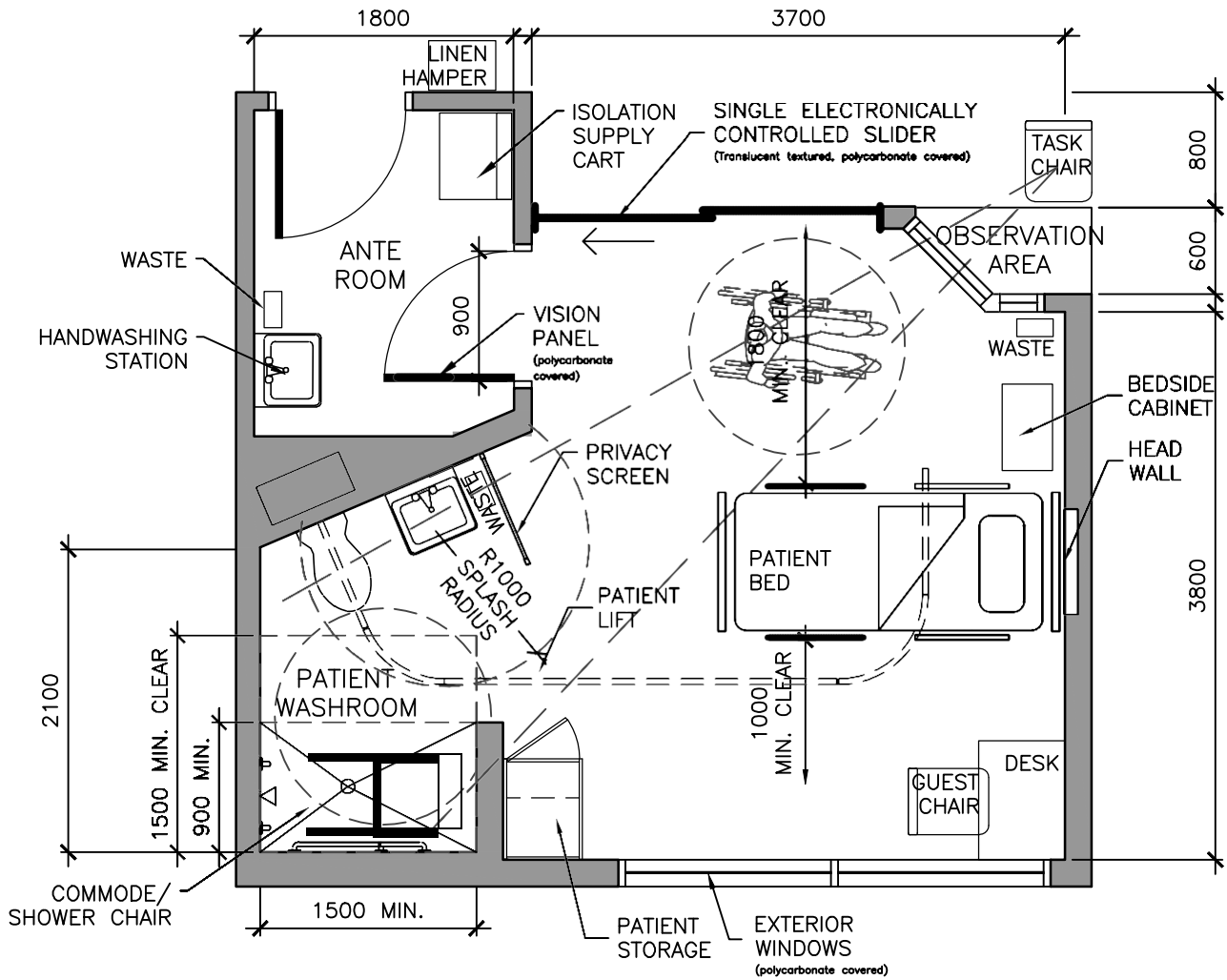
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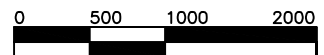
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**PRIVATE BEDROOM, Isolation**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



NOTE:  
PATIENT OBSERVATION FROM CORRIDOR IS CRITICAL  
ALL WASHROOM ITEMS TO BE TAMPER PROOF CERTIFIED MENTAL HEALTH



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**Mental Health and Addictions**  
**PRIVATE BEDROOM**  
**1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY** Safe and secure psychiatric, medical and nursing care. Multidisciplinary integrated care, family centered care.**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	6			7

**KEY INFECTION  
CONTROL PROTOCOLS**Hand washing station (Sink located outside the room)  
Routine practices and additional precautions,  
Alcohol based hand solution (outside of the room)**KEY DIMENSIONS****Room Components**Allow 12m<sup>2</sup> for patient care zone.  
Allow for a private washroom.**Ceiling Height**

Floor to ceiling – 2.7m

**Equipment Maneuverability**Allow for patient transfer from stretcher to either side of bed.  
Allow room for medical mobile carts on either side of bed.  
Allow for single (recessed) patient lift ceiling mounted track

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**PRIVATE BEDROOM**  
**2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

<b>Ceiling Mounted</b>	<b>Qty.</b>	<b>Remarks</b>
Patient lift	1	Single, recessed, mental health certified
<b>Wall Mounted</b>		
Grab bar	Varie s	Tamper proof, mental health certified
Hand washing station *	1	
<b>Floor Mounted</b>		

\*optional

## MOBILE ELEMENTS

<b>Type</b>	<b>Qty.</b>	<b>Remarks</b>
Patient bed	1	Mental health certified

## FURNITURE &amp; EQUIPMENT

<b>Type</b>	<b>Qty.</b>	<b>Remarks</b>
Desk	1	Patient use
Task chair	1	Patient use
Patient storage	1	Patient use
Bedside cabinet	1	Patient use
Commode/shower chair	1	Temper proof, Mental health certified. Move in and out of room.

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**PRIVATE BEDROOM**  
**3 of 4****DESIGN CONSIDERATIONS****CLINICAL  
ASSUMPTIONS**

Assumes average length of stay of 3-14 days  
 Assumes increased family involvement with pediatric patients  
 High (critical) patient observation  
 Decentralized nursing care  
 Tamper proof mental health certified bathroom fixtures and plumbing

**KEY ROOM  
ADJACENCIES**

Washroom

**DESIGN FLEXIBILITY****REGULATIONS**

National Building Code of Canada (2005)  
 Alberta Building Code (2006)

**REFERENCES AND  
GUIDELINES**

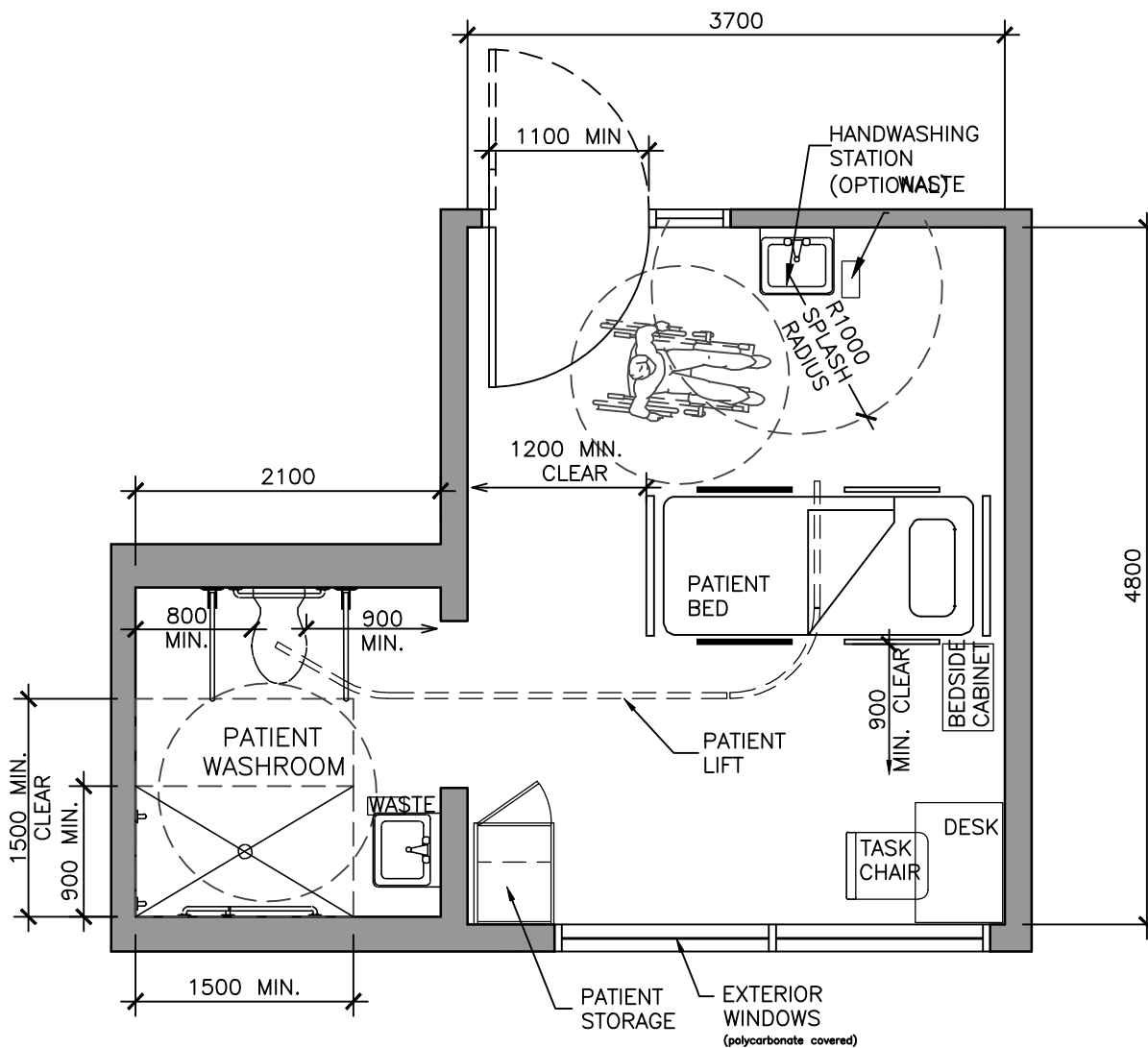
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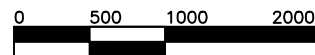
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



NOTE: ALL WASHROOM ITEMS TO BE TAMPER PROOF CERTIFIED MENTAL HEALTH



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**Mental Health and Addictions**  
**SEMI PRIVATE BEDROOM**  
**1 of 4****PLANNING ASSUMPTIONS**

PATIENT CARE PHILOSOPHY    Psychiatric, medical and nursing care: provision for family centered care.

## KEY FUNCTIONS

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

## DESIGN OCCUPANCY

Patient	Staff	Family	Other	Total
2	2			4

KEY INFECTION  
CONTROL PROTOCOLSRoutine practices and additional precautions,  
Alcohol based hand solution (outside of the room)

## KEY DIMENSIONS

**Room Components**

Minimum 2m separation between patients (beds).

**Ceiling Height**

Floor to ceiling – 2.4m minimum

**Equipment Maneuverability**

Allow for patient transfer from stretcher to either side of bed.

Allow room for medical mobile carts on either side of bed.

AREA

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**J-3****Mental Health and Addictions****SEMI PRIVATE BEDROOM****2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Patient lift	2	Single recessed rail, Mental Health Certified
Wall Mounted		
Grab bar	Varie s	Mental health certified
Hand washing station*	1	
Floor Mounted		

\*Optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Patient bed	2	Mental health certified
Supply cart	1	Outside of room
Linen hamper*	1	

\*optional

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Patient storage	2	Patient use
Bedside cabinet	2	Patient use
Guest chair	2	Family use
Commode/shower chair	2	Patient use. Moved in and out of room as required.
Supply storage	2	In decentralized charting station
Computer / charting station	1	In decentralized charting station
Work station	1	Counter with storage cupboards, in decentralized charting station



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**Mental Health and Addictions**

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**SEMI PRIVATE BEDROOM**

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**3 of 4****DESIGN CONSIDERATIONS****CLINICAL  
ASSUMPTIONS**

High (critical) patient observation  
 Decentralized nursing care  
 Tamper proof mental health certified bathroom fixtures and plumbing

**KEY ROOM  
ADJACENCIES**

2 washrooms  
 Decentralized charting station

**DESIGN FLEXIBILITY****REGULATIONS**

National Building Code of Canada (2005)  
 Alberta Building Code (2006)

**REFERENCES AND  
GUIDELINES**

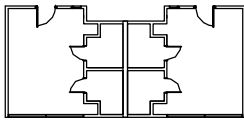
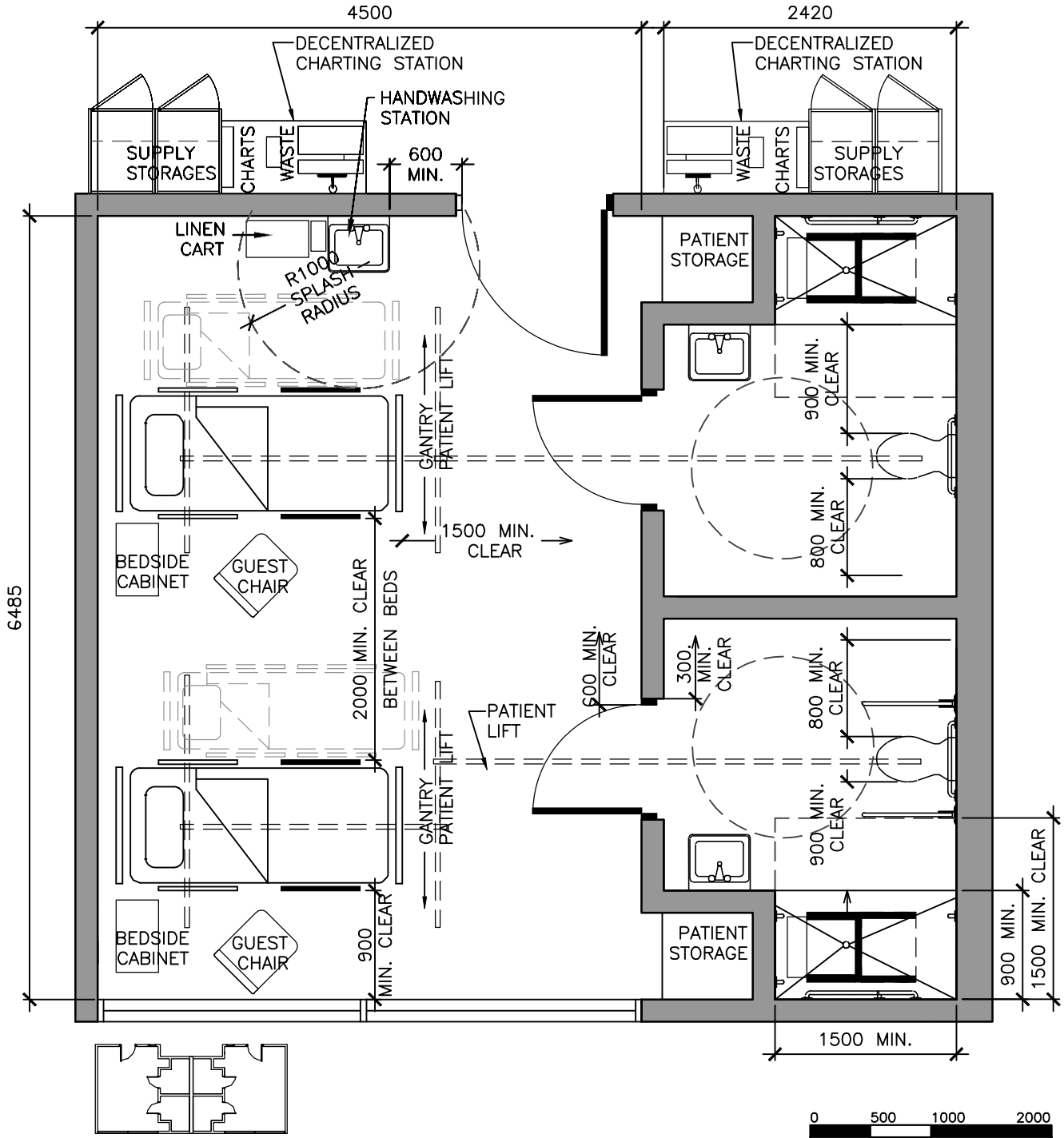
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



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GENERAL RADIOGRAPHY  
1 of 4**PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY**

Clinical Services: Diagnostic Imaging. , accessible care with new technologies and mixed modalities, support by base buildings infrastructure. Lean principles, shared control spaces for like modalities, efficient staffing and patient throughput.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2*	1		4

\*Includes students

Pediatric: 1 family member

Trauma: 3 to 6 additional staff

**KEY INFECTION  
CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, all surfaces scrubable, increased air exchange.  
Routine practices and additional precautions, FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Patient zone is the radiographic table/upright detector

Equipment zone/staff zone is centered on and around the radiographic table /long limb panorex (5m x 6m)

View of patient at table and upright detector

**Ceiling Height**

Floor to ceiling – 2850 mm – to be verified by equipment vendor

Accommodate a ceiling lift

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**Diagnostic Imaging**  
**GENERAL RADIOGRAPHY**  
**2 of 4****Equipment Maneuverability**

Allow for patient transfer from stretcher to one side of radiographic table.  
 Allow for patient stretcher access and placement in front of upright detector.  
 All for door width to accommodate patient bed  
 Allow for staff movement behind radiographic table  
 Allow unobstructed distance of 1800mm at upright detector for exposures

**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

<b>Ceiling Mounted</b>	<b>Qty.</b>	<b>Remarks</b>
Radiographic system	1	Ray tube and rail system
Patient lift	1	
Radiation shielding		
<b>Wall Mounted</b>		
Hand washing station	1	
Dirty sink*	1	
Headwall	1	Medical gases, power
Lead apron rack	1	
<b>Floor Mounted</b>		
Radiographic system	1	Patient table, upright detector, generator cabinets
<b>Counter Mounted</b>		
OEM control console		Upright detector affixed to the wall

\* optional

## MOBILE ELEMENTS

<b>Type</b>	<b>Qty.</b>	<b>Remarks</b>
Linen hamper	1	
IV stand	1	
Waste receptacle	2	In imaging room & system control room
Storage cabinet	2	Millwork or systems furn.
Patient walker	1	
Pig-o-stat	1	
Generator cabinets	2	
Supply storage	1	

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**Diagnostic Imaging**  
**GENERAL RADIOGRAPHY**  
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## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Computer/charting station	1	Workstation with counter and computer system (PACS/RISPC), standing height, designed to accommodate system control components. Keep equipment off of floor
Task chair	1	In system control
Step stool	1	
Stool	1	For physician
Document scanner	1	
Workstation	1	

## DESIGN CONSIDERATIONS

CLINICAL  
ASSUMPTIONS

Digital equipment is used—if not, additional space will be required for a plate reader and cassette storage  
Typically provide room with shared control room  
Area reflects space for 1 control technician

KEY ROOM  
ADJACENCIES

Control room  
Change rooms/patient washroom

## DESIGN FLEXIBILITY

Large unistrut grid to accommodate multiple vendors  
Lead lined room  
May need to accommodate digital pan and Long length with associated work stations (control room)

## REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)

REFERENCES AND  
GUIDELINES

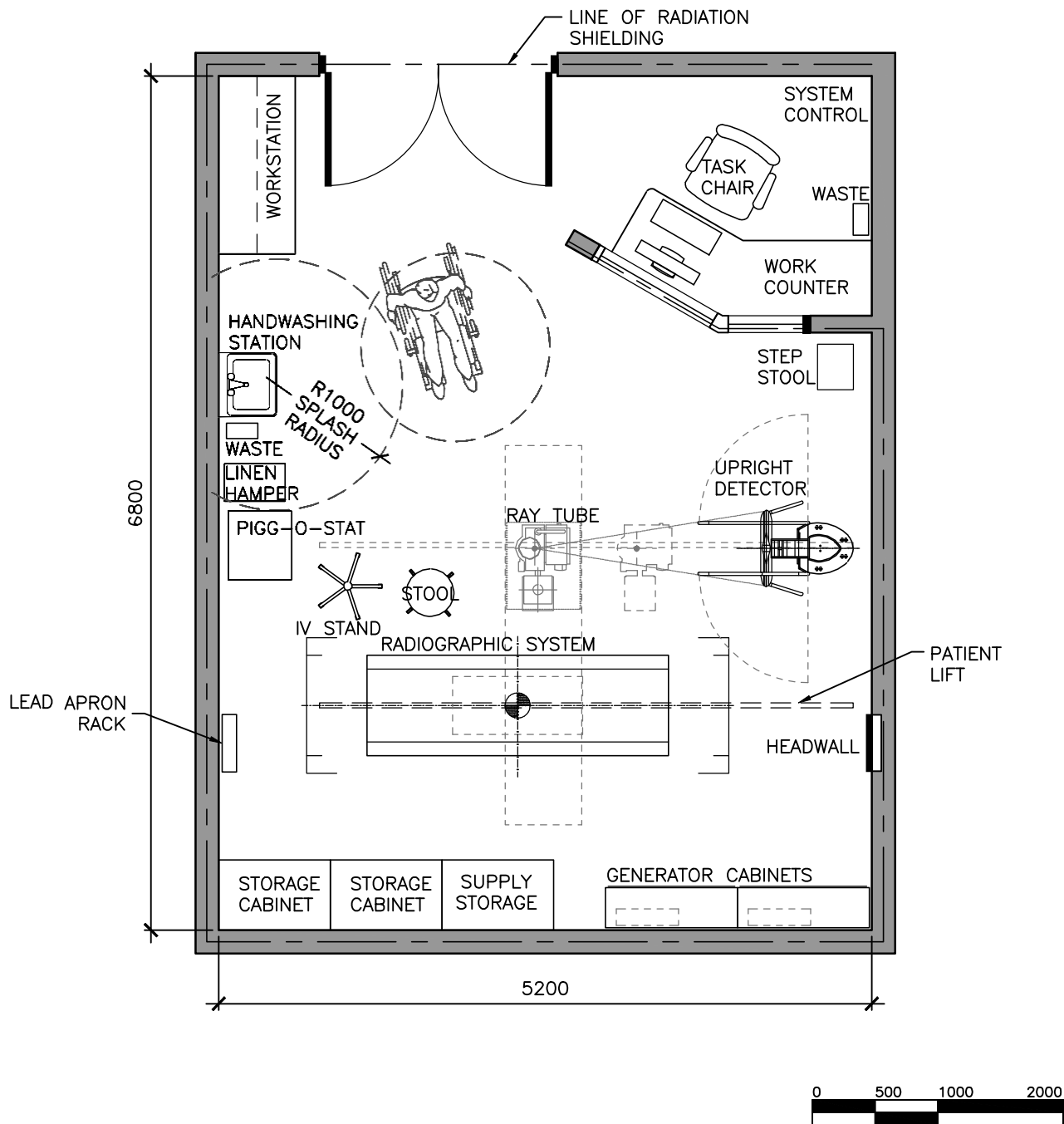
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | December 2014

Reference Number | K-2  
Department | Diagnostic Imaging  
Room Name | FLUOROSCOPY ROOM  
Page | 1 of 4**PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Clinical Services: Diagnostic Imaging. Staff and patient safety (ALARA Principle), accessible care with new technologies and mixed modalities, support by base buildings infrastructure. Lean principles, shared control spaces for like modalities, efficient staffing and patient throughput.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	3-5*			4-6

\*Includes a radiologist

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, biohazard disposal, scrubable surfaces. Increase d air exchange.  
Routine practices and additional precautions, FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Patient zone is the fluoroscopy table  
Equipment zone is centered on and around the table (5m x6m)  
Table tilts to vertical

**Ceiling Height**

Floor to ceiling - 3m

**Equipment Maneuverability**

Allow for patient transfer from stretcher to one side of fluoroscopy table.  
Allow room for medical mobile carts.  
With table in upright position, patient may be sitting or standing  
Allow for view of patient with table in upright position form control room

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**Diagnostic Imaging**  
**FLUOROSCOPY ROOM**  
**2 of 4****FIXED ELEMENTS**

<b>Ceiling Mounted</b>	<b>Qty.</b>	<b>Remarks</b>
Monitors (fluoroscopy)	1	
Radiation shielding	1	
Patient lift	1	
<b>Wall Mounted</b>		
Hand washing station	1	
Headwall	1	Medical gases, power
Lead apron rack	1	
<b>Floor Mounted</b>		
Fluoroscopy system	1	Allow space for generator and control cabinets

**MOBILE ELEMENTS**

<b>Type</b>	<b>Qty.</b>	<b>Remarks</b>
Utility cart	1	
Patient stretcher		
Storage cabinets	1	
Mobile x-ray shield	1	
Linen hamper	1	
Waste receptacle	2	In fluoroscopy room & control room
Generator cabinets	1	
Biohazard waste	1	
IV Stand	1	
Procedure light	1	Moved in and out as required
Mobile detector holder	1	
Patient transfer board	1	

**FURNITURE & EQUIPMENT**

<b>Type</b>	<b>Qty.</b>	<b>Remarks</b>
Guest chair	1	
Stool	1	
Patient stool	1	



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**Diagnostic Imaging**  
**FLUOROSCOPY ROOM**  
**3 of 4****CONTROL ROOM**

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
OEM equipment control	1	
Document scanner	1	
Monitors	1	
Work counter	1	Sitting height
RIS PC	1	
DVD player/recorder (vendor)	1	
Task chair	2	

**DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONSFluoroscopy room is remotely located  
Contrast agent preparation area is outside of procedure areaKEY ROOM  
ADJACENCIESContrast agent preparation area  
Control room  
1 (2 pcs) washroom for contrast work accessed from procedure room

## DESIGN FLEXIBILITY

Room may need to accommodate tube suspension and upright detector

## REGULATIONS

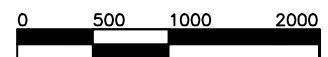
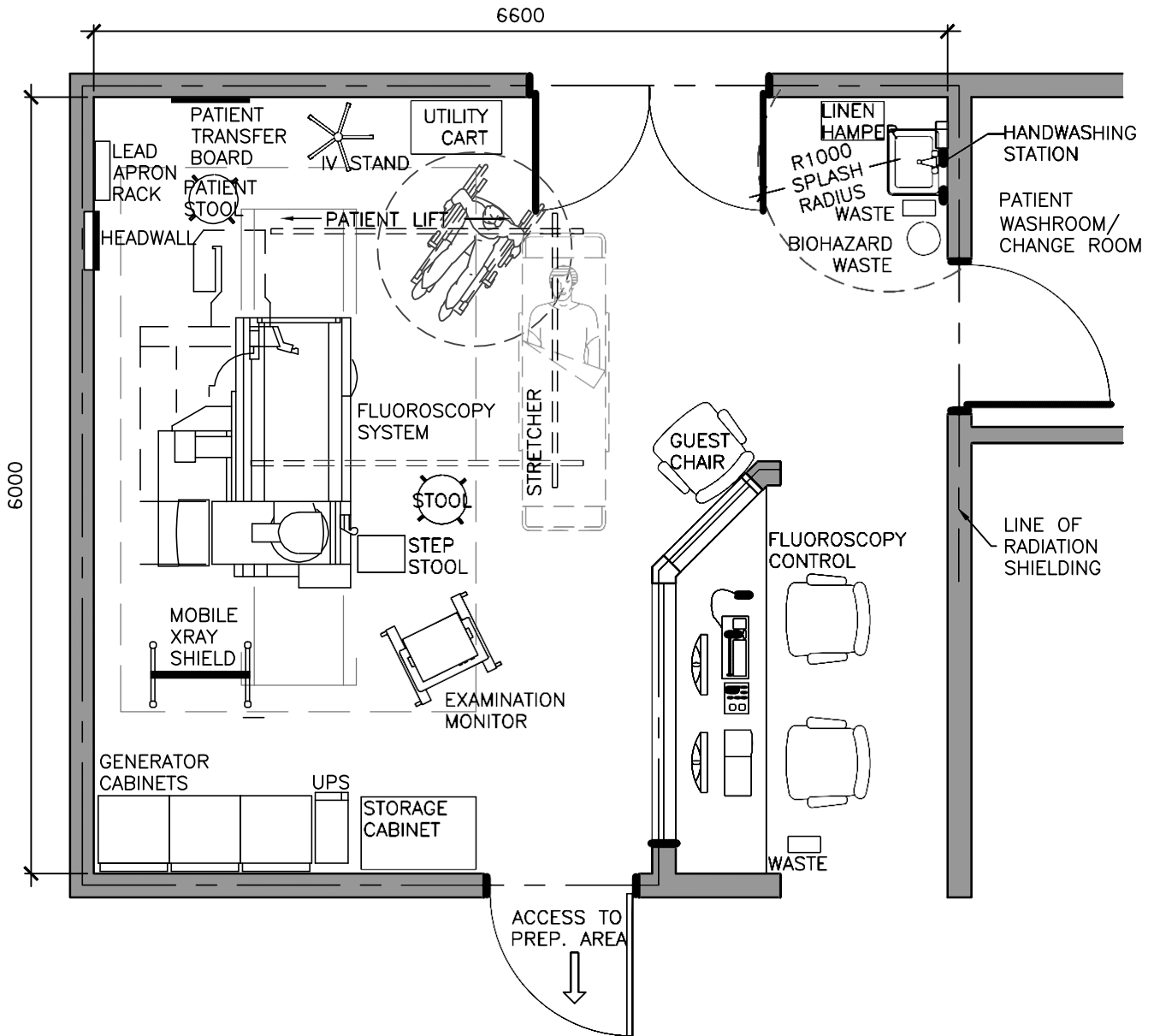
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NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number | **K-3**  
Department | **Diagnostic Imaging**  
Room Name | **CT SCANNER**  
Page | **1 of 5****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Clinical Services: Diagnostic Imaging. Staff and patient safety (ALARA Principle), accessible care with new technologies and mixed modalities, support by base buildings infrastructure. Lean principles, shared control spaces for like modalities, efficient staffing and patient throughput.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2*			3

\*Teaching/pediatrics/ICU/trauma: up to 6 with associated staff

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, scrubable surfaces, optional increased air exchange and low level exhaust  
 Routine practices and additional precautions  
 FFE-mask, eye protection and glove box dispenser (wall mounted).  
 Alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Patient zone - CT scanner table  
 Typically, the CT scanner gantry and table are angled to optimize visibility of the patient's head from the control room. Minimum room width to take gantry positioning into account  
 The staff zone is the remainder of room area.  
 Injector use at either side of table

**Ceiling Height**

Floor to ceiling - 3m minimum

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Reference Number | K-3  
Department | Diagnostic Imaging  
Room Name | CT SCANNER  
Page | 2 of 5**Equipment Maneuverability**

Allow for patient transfer from stretcher to one side of CT table.

Allow room for supply carts.

Allow for full movement of staff, table, gantry, and additional equipment

**EQUIPMENT/SERVICES- CT Room**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
CCTV camera	1	Behind gantry (view of patients' head/face)
Patient lift	1	
Lighting	1	Photographic 'sky' type ceiling optional
Contrast media injector head	1	
IV stand	1	
CT Fluoro monitor*	1	
Radiation shielding	1	
Wall Mounted		
Hand washing station	1	
Headwall	1	Medical gases, power
Prep sink	1	
Lead apron tack	1	
Floor Mounted		
CT system	1	Allow space for system cabinets or in adjacent equipment room

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Supply cart	2	
Patient transfer board	1	
Mobile catheter cabinet*	1	Optional – interventional only
Linen hamper	1	
Mayo stand	1	
Step stool	1	
Contrast media warmer	1	
Waste receptacle	2	
Vitals monitor	1	
Ventilator	1	
Biohazard waste	1	
Back table*	1	

\*optional

Date | **December 2014**Reference Number | **K-3**  
Department | **Diagnostic Imaging**  
Room Name | **CT SCANNER**  
Page | **3 of 5**

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Work counter	1	Counter with storage cupboards and sink

## EQUIPMENT/SERVICES- Control Room

## FIXED ELEMENTS

Counter Mounted	Qty	
CT system control	1	
Contrast media injector control	1	
Monitor for CCTV	1	
Computer/charting station	2	Workstation with 2 computers/PACS/RIS PC
Document scanner	1	
Work counter	1	Sitting height

## MOBILE ELEMENTS

Type	Qty.	Remarks
Task chairs	2	
Waste receptacle	1	

Date | **December 2014**Reference Number | **K-3**  
Department | **Diagnostic Imaging**  
Room Name | **CT SCANNER**  
Page | **4 of 5****DESIGN CONSIDERATIONS****CLINICAL  
ASSUMPTIONS**

Contrast agent prep area is outside of procedure area

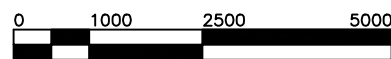
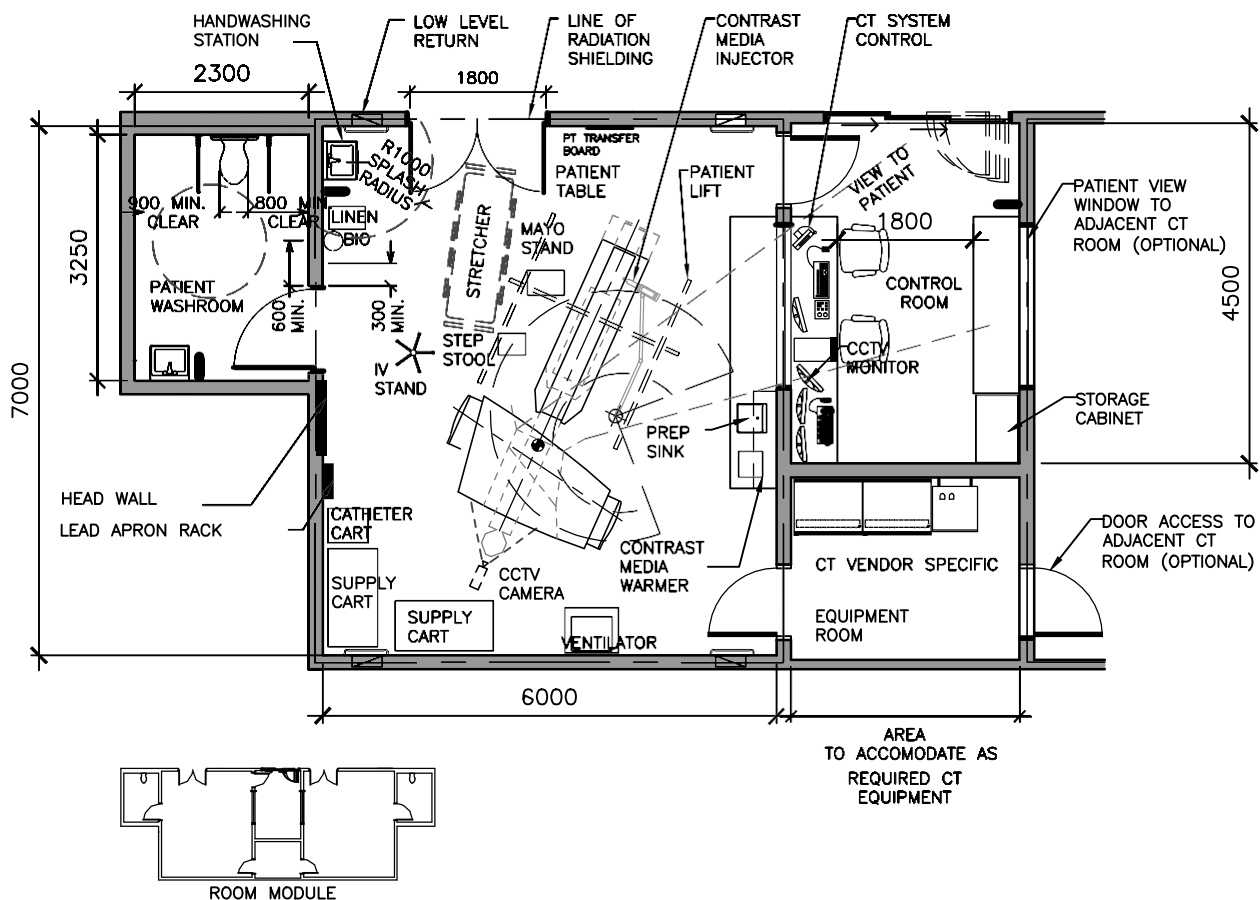
**KEY ROOM  
ADJACENCIES**Patient washroom-immediately adjacent  
Control room  
CT equipment room (optional)  
IV start room**DESIGN FLEXIBILITY**Optional CT fluoro  
Directional lighting (not over patient) for IV start  
Provide a robust system both air and water to accommodate current and future equipment**REGULATIONS**National Building Code of Canada (2005)  
Alberta Building Code (2006)**REFERENCES AND  
GUIDELINES**Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
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Reference Number  
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**Diagnostic Imaging**  
**CT SCANNER**  
**5 of 5**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE







Date | **December 2014**Reference Number  
Department  
Room Name  
Page**K-4**  
**Diagnostic Imaging**  
**MAMMOGRAPHY ROOM**  
**1 of 4****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY**

Diagnostic clinical service care: diagnosis and assessment. Staff and patient safety (ALARA Principle), accessible care with new technologies and mixed modalities, support by base buildings infrastructure. Lean principles, shared control spaces for like modalities, efficient staffing and patient throughput.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	1			2

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharp and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow 8 m<sup>2</sup> for patient zone, including mammography imaging system and chair

Allow 6m<sup>2</sup> for staff zone including Control Station.

**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

Allow room for moving, rotating and extension of digital mammography system and attachments.

Allow room for rotating and adjustment of mammography system Control Station.

AREA

NET AREA  
**15 nsm**

Date | **December 2014**Reference Number | **K-4**  
Department | **Diagnostic Imaging**  
Room Name | **MAMMOGRAPHY ROOM**  
Page | **2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Radiation shield*	1	
Wall Mounted		
Hand washing station	1	
Floor Mounted		
Imaging mammography system	1	Rotates, moves, and extends. Includes leadshield
Control station	1	

\*optional

## MOBILE ELEMENTS

Type	Qty.	Remarks
Utility cart	1	
Waste receptacle	2	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Computer/charting station	1	RIS PC
Stool	1	For staff
Storage cabinets	1	Supplies and forms – millwork or systems furn.
Task chair	1	
Document scanner	1	
Coat hooks	2	
Work station	1	

Date | **December 2014**Reference Number | **K-4**  
Department | **Diagnostic Imaging**  
Room Name | **MAMMOGRAPHY ROOM**  
Page | **3 of 4****DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONSKEY ROOM  
ADJACENCIESChange room  
Patient washroom

## DESIGN FLEXIBILITY

Ability to accommodate new technology in the future.  
Need for radiation shielding is to be reviewed by a medical physicist and based on specific equipment requirements  
Accommodate a clinical work station  
Units are capable of biopsy, if this function is required add 15-20% room area

## REGULATIONS

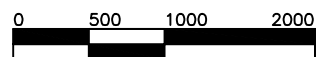
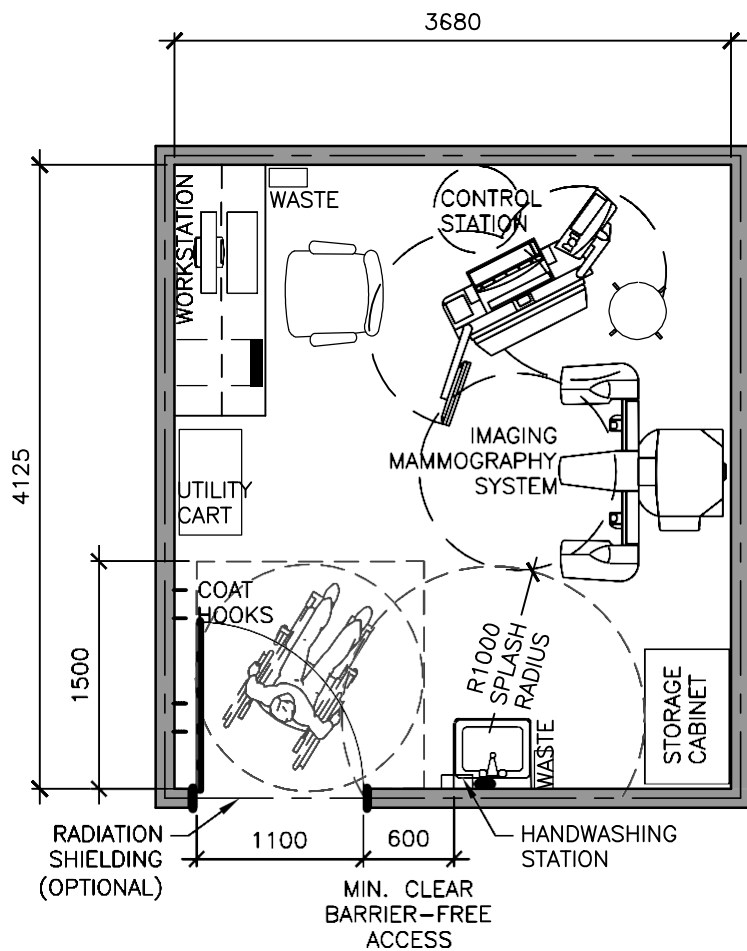
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GUIDELINESOntario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
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**K-4**  
**Diagnostic Imaging**  
**MAMMOGRAPHY ROOM**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number | **K-5**  
Department | **Diagnostic Imaging**  
Room Name | **MRI**  
Page | **1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Diagnostic clinical service care: diagnosis and assessment. Staff and patient safety (ALARA Principle), accessible care with new technologies and mixed modalities, support by base buildings infrastructure. Lean principles, shared control spaces for like modalities, efficient staffing and patient throughput.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	3	0		4

Assumes teaching component  
Optional respiratory technician  
Family member may accompany pediatric cases

**KEY INFECTION  
CONTROL PROTOCOLS**

Hand washing station outside of magnet room, all surfaces scrubbable  
Routine practices and additional precautions  
FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

MRI table is the patient zone.  
Equipment zone is set around patient zone.  
Space for equipment maneuverability and patient access varies based on type and model of MRI Scanner used (refer to manufacturers recommendations).  
Magnet room doors must swing out  
5 gauss line to be within controlled area or contained within room

AREA

NET AREA  
**88 nsm**  
(Incl. Support Rooms)

Date | **December 2014**Reference Number | **K-5**  
Department | **Diagnostic Imaging**  
Room Name | **MRI**  
Page | **2 of 4****Ceiling Height**

Floor to ceiling - 3m minimum

**Equipment Maneuverability**

Allow for patient transfer from stretcher to MRI table.

Allow for detachable table use

**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Quench pipe	1	
CCTV camera	1	
Contrast media injector head	1	
Magnetic & R.F. shielding		
Wall Mounted		
Headwall	1	Medical gases, power
Hand washing station	1	Outside of room
Floor Mounted		
MRI scanner	1	

## MOBILE ELEMENTS

Type	Qty.	Remarks
Anesthesia machine	1	
Stretcher	1	
IV stand	1	
Step stool	1	
Waste receptacle	3	
Chair	1	
Physiological monitor	1	
Coil storage	1	
Linen hamper	1	
Infusion pumps	1	MRI compatible

**EQUIPMENT/SERVICES – CONTROL ROOM**

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Computer/charting station	2	Counter with storage cupboards, PACS/RIS PC
Task chair	2	
Injector control	1	
System control	1	
Patient monitor	1	
Document scanner	1	

Date | **December 2014**Reference Number | **K-5**  
Department | **Diagnostic Imaging**  
Room Name | **MRI**  
Page | **3 of 4****DESIGN CONSIDERATIONS**

CLINICAL ASSUMPTIONS Assumes 1.5T magnet  
Assumes non-interventional room—if interventional, add 6 nsm to control room for additional equipment

Interventional MRI

Allow for biopsy devices and supplies (taken into room)  
Allow for biopsy planning workstation (control room)  
Allow for breast MR workstation (control room)  
Allow for magnet replacement/upgrade in the future

KEY ROOM  
ADJACENCIES

Control room  
MRI equipment room  
Consent room  
Patient safety vestibule  
Patient preparation/sedation  
Patient washroom

DESIGN FLEXIBILITY

Room requires full RF shielding (c/w RF wave guides)  
Ferrous materials minimized/eliminated in room (all systems)  
Allow for sound attenuation and vibration minimization  
For pediatrics and general anesthesia, additional control room space is required  
Design to accommodate a potential water chiller for equipment cooling.  
Breast intervention with accessory equipment

REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)

REFERENCES AND  
GUIDELINES

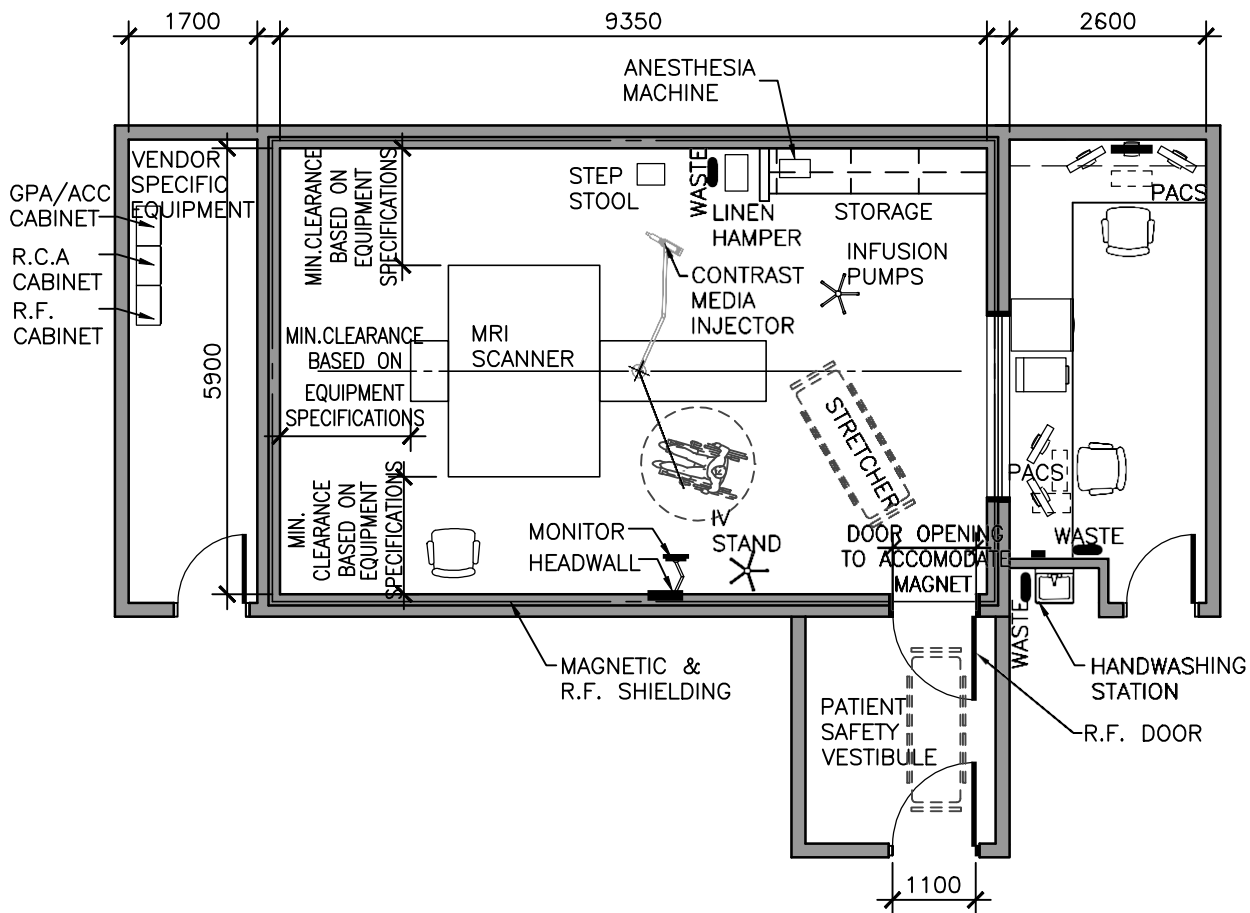
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Reference Number  
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**Diagnostic Imaging**  
**MRI**  
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Date | **December 2014**Reference Number | **K-6**  
Department | **Diagnostic Imaging**  
Room Name | **ULTRASOUND**  
Page | **1 of 4****PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Clinical Services: Diagnostic Imaging, family centered care. Staff and patient safety (ALARA Principle), accessible care with new technologies and mixed modalities, support by base buildings infrastructure. Lean principles, shared control spaces for like modalities, efficient staffing and patient throughput.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multidisciplinary         |

**DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2*	1		4

\*Optional radiologist

**KEY INFECTION  
CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius.  
Interventional ultrasound: increased cleanability, probe not cleaned within room  
Routine practices and additional precautions  
FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Allow 1m x 2m for patient zone (exam table).  
Allow 4m<sup>2</sup> for family zone.  
Remainder of room area allocated to staff zone.  
Scan from either side of table

**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

Allow room for medical mobile carts/equipment on either side of the exam table.

AREA

NET AREA  
**13 nsm**

Date | **December 2014**Reference Number | **K-6**  
Department | **Diagnostic Imaging**  
Room Name | **ULTRASOUND**  
Page | **2 of 4****EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
<b>Wall Mounted</b>		
Hand washing station	1	
Headwall/In wall services	1	Medical gases, power
Transducer holder	1	
Wall monitor	1	Family viewing
<b>Floor Mounted</b>		
<b>Counter Mounted</b>		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Ultrasound machine	1	
Stretcher	1	
Linen hamper	1	
Waste receptacle	1	
Step stool	1	
Supply/linen storage	1	
Biohazard waste	1	
Gel warmer	1	
IV stand	1	
Supply cart	1	
Back table	1	
Procedure light*	1	
Ventilator	1	

\* optional

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Guest chair	1	
Computer/charting station	1	RIS PC
Sonographer's Chair	1	
Document scanner	1	
Work surface	1	With upper cabinet for supply/linen storage above

Date | **December 2014**Reference Number | **K-6**  
Department | **Diagnostic Imaging**  
Room Name | **ULTRASOUND**  
Page | **3 of 4****DESIGN CONSIDERATIONS**

CLINICAL ASSUMPTIONS | Assumes diagnostic ultrasound

KEY ROOM ADJACENCIES | Patient washroom  
Probe cleaning

DESIGN FLEXIBILITY | Accommodate tele-ultrasound

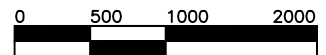
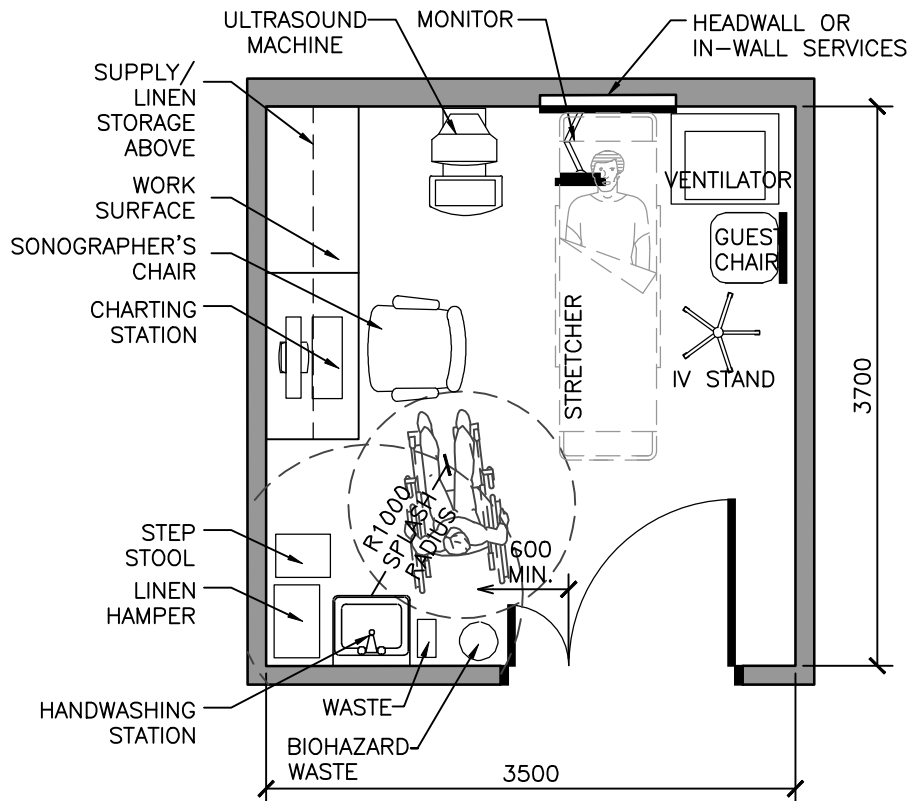
REGULATIONS | National Building Code of Canada (2005)  
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Date | December 2014

Reference Number  
Department  
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**Diagnostic Imaging**  
**ULTRASOUND**  
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Date | **December 2014**Reference Number  
Department  
Room Name  
Page**K-7**  
**Diagnostic Imaging**  
**INTERVENTIONAL RADIOGRAPHY**  
**1 of 5****PLANNING ASSUMPTIONS****PATIENT CARE PHILOSOPHY**

Acute Care: Diagnostic Imaging. Staff and patient safety (ALARA Principle), accessible care with new technologies and mixed modalities, support by base buildings infrastructure. Lean principles, shared control spaces for like modalities, efficient staffing and patient throughput.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments /Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	5			6

(3 People in Angiography room/ 2 people in Control Room)

**KEY INFECTION  
CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, increased air exchange, low level return, scrubbable surfaces, scrub sinks, laminar airflow, closed catheter storage  
Routine practices and additional precautions.  
FFE-mask, eye protection and glove box dispenser (wall mounted).  
Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS****Room Components**

Patient zone is the angiography table.  
Equipment zone is centered on and around the table (5m x 6.5m.) Components of the angiography system are located within this area mounted on the floor and ceiling. This area allows for table rotation.  
Allow for 1.0m circulation zone area around equipment zone.  
Allow for perimeter supply storage

**Ceiling Height**

Floor to ceiling – typical ceiling heights range between 2.8m-3m. Consult vendor for required dimensions

AREA

NET AREA  
80 nsm  
(Incl. Control Room)

Date | December 2014

Reference Number  
Department  
Room Name  
PageK-7  
Diagnostic Imaging  
INTERVENTIONAL RADIOGRAPHY  
2 of 5**Equipment Maneuverability**

Allow for patient transfer from stretcher to one side of patient table.

Allow room for mobile carts.

Allow clear zone for c-arm rotation

**EQUIPMENT/SERVICES-Angiography Room**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Angiography equipment	1	System could be either single or biplane
Radiation shielding	1	
Procedure light	1	
System monitor	1	
Wall Mounted		
Headwall	1-2	
Hand washing station	1	Scrub sink, outside room
Physiological monitor	1	
Injector*	1	
Floor Mounted		
Angiography system control equipment	1	System could be either single or biplane. Allow space for control cabinets in a separate equipment room.

## MOBILE ELEMENTS

Type	Qty.	Remarks
Instrument table	1	
Back tables	1	
Mayo stand	1	
Single basin stand	1	
Anesthesia machine*	1	
Anesthesia supply cart*	1	
Catheter cabinets	4	Closed front
Case cart	1	
Waste receptacle	2	
Utility cart	3	
Utility table	1	
IV stand	1	
Linen hamper	1	
Refrigerator	1	
Contrast warmer	1	
Biohazard waste	1	
Ultrasound	1	

\*optional

Date | **December 2014**Reference Number  
Department  
Room Name  
Page**K-7**  
**Diagnostic Imaging**  
**INTERVENTIONAL RADIOGRAPHY**  
**3 of 5**

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Stools	2	
Work surface	1	

## EQUIPMENT/SERVICES-Control Room

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Wall Mounted		
Floor Mounted		
Angiography control equipment	1	
Counter Mounted		
Computer workstation	2	
Angiography system controls	1	
Contrast media injector control	1	
Post processing workstation	1	
Document scanner	1	
RIS PC	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Chairs	4	2 at system controls, 1 at workstation, 1at PACS
Workstation	1	

Date | **December 2014**Reference Number  
Department  
Room Name  
PageK-7  
Diagnostic Imaging  
INTERVENTIONAL RADIOGRAPHY  
4 of 5**DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONS

Assumes single plane angiography system

KEY ROOM  
ADJACENCIESScrub area  
Control room  
Angiography equipment room  
Patient washroom  
Blanket warmer alcove

## DESIGN FLEXIBILITY

Room to accommodate either single or biplane angiography equipment  
System may be floor mounted

## REGULATIONS

National Building Code of Canada (2005)  
Alberta Building Code (2006)REFERENCES AND  
GUIDELINESOntario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
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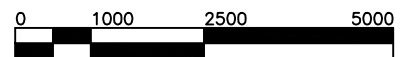
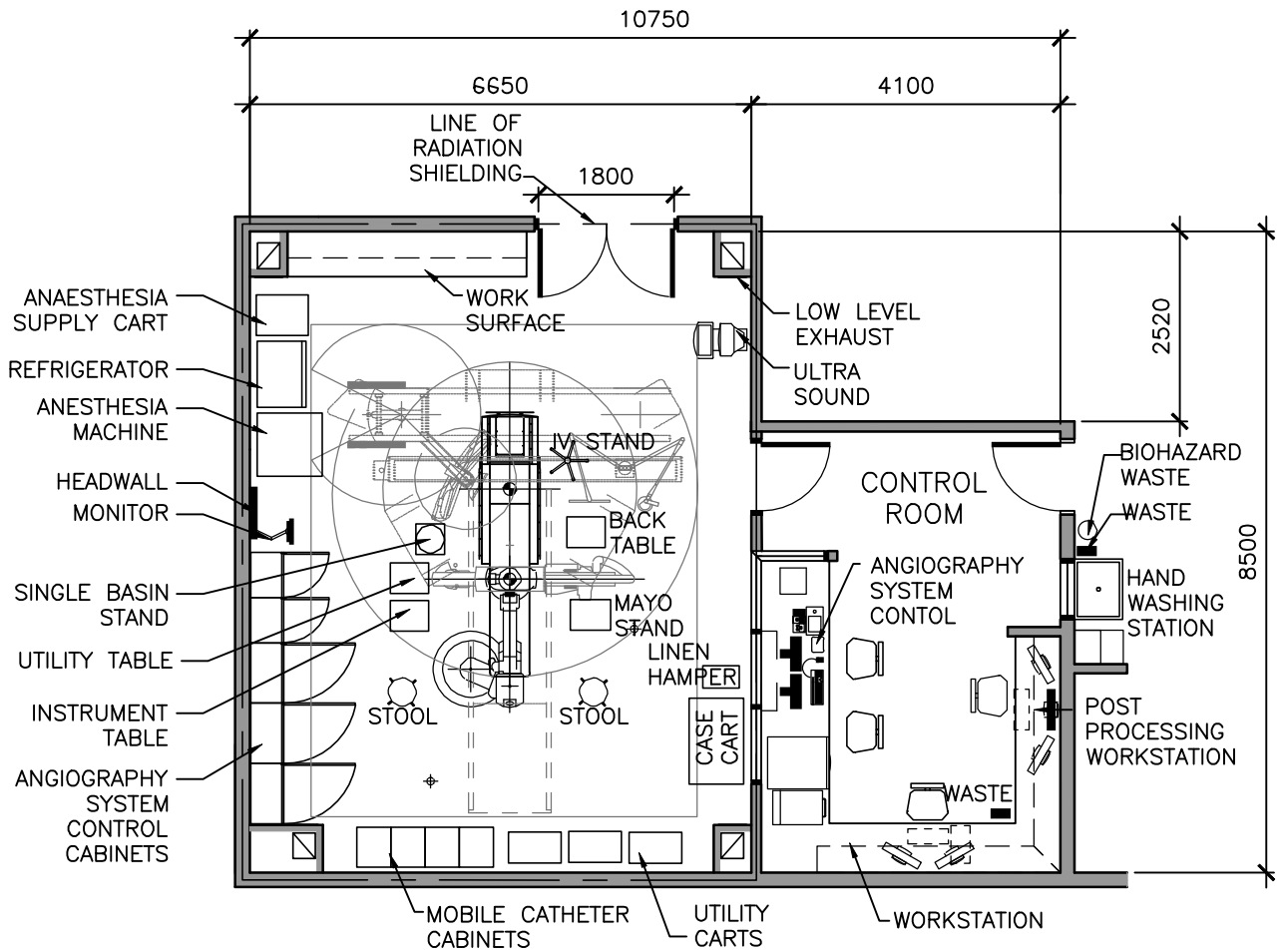


Date | December 2014

Reference Number  
Department  
Room Name  
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**K-7**  
**Diagnostic Imaging**  
**INTERVENTIONAL RADIOGRAPHY**  
**5 of 5**

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Date | **December 2014**

Reference Number | **K-8**  
 Department | **Diagnostic Imaging**  
 Room Name | **SPECT/CT SCANNER**  
 Page | **1 of 4**

**PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Clinical Services: Diagnostic Imaging. Staff and patient safety (ALARA Principle), accessible care with new technologies and mixed modalities, support by base buildings infrastructure. Lean principles, shared control spaces for like modalities, efficient staffing and patient throughput.

**KEY FUNCTIONS**

- Assessment
- Clinical diagnostics
- Conference
- Documentation/Charting
- Examination
- Patient/Family Consultation
- Observation/Monitoring
- Research
- Teaching
- Major Treatment/Procedure
- Minor Treatment/Procedure
- Multi disciplinary

**Comments /Other:**

**DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
1	2			3

**KEY INFECTION CONTROL PROTOCOLS**

Hand washing station with 1000mm clear splash radius, scrubbable surfaces, increased air exchange with low level exhaust  
 Routine practices and additional precautions.  
 FFE-mask, eye protection and glove box dispenser (wall mounted)  
 Sharps and alcohol based hand solution (wall mounted at point of care)

**KEY DIMENSIONS**

**Room Components**  
 Patient zone –SPECT/ CT scanner table  
 Typically, the scanner gantry and table are angled to optimize visibility of the patient’s head from the control room. Minimum room width to take gantry positioning into account  
 The staff zone is the remainder of room area.  
 Allow for control room of 7m<sup>2</sup>  
**Ceiling Height**  
 Floor to ceiling - 3m or as required by equipment vendor.

AREA

NET AREA  
**42 nsm**  
(excl. control rm)

Date | **December 2014**Reference Number | **K-8**  
Department | **Diagnostic Imaging**  
Room Name | **SPECT/CT SCANNER**  
Page | **2 of 4****Equipment Maneuverability**

Allow for patient transfer from stretcher to one side of SPECT/CT table.  
Allow room for supply carts.  
Design to accommodate full management of staff/table and gantry and additional equipment

**EQUIPMENT/SERVICES- CT Room**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Lighting	1	Photographic 'sky' type ceiling optional
Radiation shielding		
CCTV camera	1	
Wall Mounted		
Hand washing station	1	
Headwall	1	Medical gases, power
Lead apron tack	1	
OEM equipment control system	1	
Floor Mounted		
SPECT /CT system	1	Allow space for equipment cabinets inside examroom

## MOBILE ELEMENTS

Type	Qty.	Remarks
IV stand	1	
Supply cart	1	
Patient transfer board	1	
Linen hamper	1	
Waste receptacle	1	
OEM equipment control system*	1	
SPECT/CT support equipment	1	

\*optional

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Step stool	1	

Date | **December 2014**Reference Number  
Department  
Room Name  
Page**K-8**  
**Diagnostic Imaging**  
**SPECT/CT SCANNER**  
**3 of 4****EQUIPMENT/SERVICES- Control Room**

## FIXED ELEMENTS

Counter Mounted	Qty	
Document Scanner	1	
SPECT /CT system control	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Task chairs	2	
OEM post processing workstation	1	
General computable charting	1	

**DESIGN CONSIDERATIONS**CLINICAL  
ASSUMPTIONS

KEY ROOM	Control room
ADJACENCIES	Injection room Patient washroom

DESIGN FLEXIBILITY	Provide a robust cooling system both air and water to accommodate current and future equipment cooling needs
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REGULATIONS	National Building Code of Canada (2005) Alberta Building Code (2006)
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REFERENCES AND  
GUIDELINES

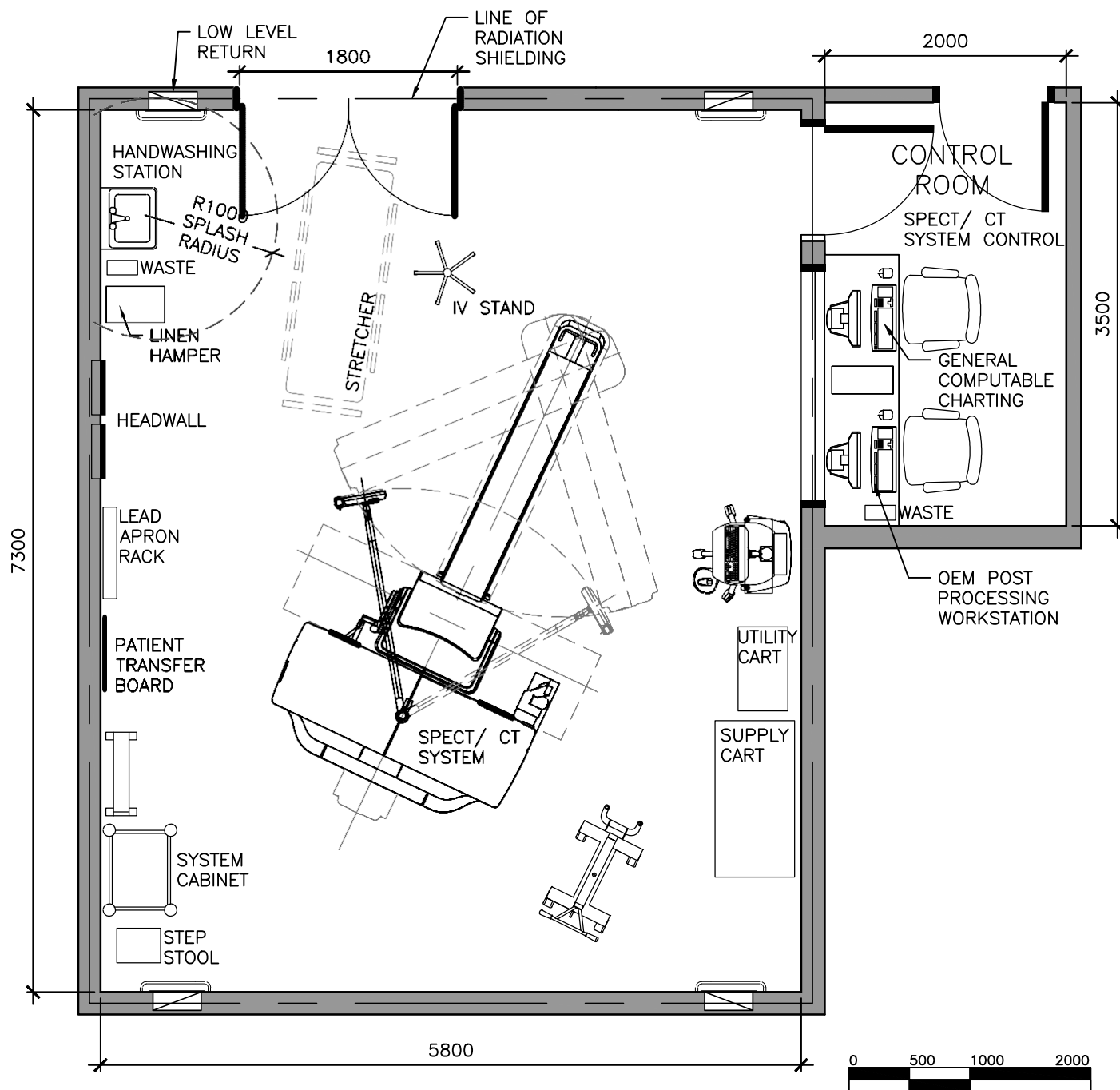
Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
 Alberta Barrier-Free Design Guide (2008)  
 Government of Alberta Health Infection Prevention and Control Strategy and Standards (2008)  
 Government of Alberta Occupational Health & Safety Code Part 35 (2009)  
 AIA Guidelines for Design and Construction of Health Care Facilities (2010)  
 PIDAC-Provincial Infectious Diseases Advisory Committee  
 AHS Infection Prevention and Control - Health Care Facility Design Guidelines and Preventive Measures for Construction, Renovation and Maintenance Activities, May 2013.  
 CSA Standard Z8000-11 Canadian Health Care Facilities, September 2011.

Date | December 2014

Reference Number  
Department  
Room Name  
Page

**K-8  
Diagnostic Imaging  
SPECT/CT ROOM  
4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | December 2014

Reference Number | L-1  
Department | Other  
Room Name | VIDEO-CONFERENCE ROOM,  
Type | 1  
Page | 1 of 4**KEY PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Support space accommodating meetings, training, communication and education.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments/Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
	8			8

**KEY INFECTION CONTROL PROTOCOLS**

Alcohol based hand solution (wall mounted)

**KEY DIMENSIONS****Room Components**

Allow room for electronic video conferencing equipment and clear pathway around all sides of conference table.

**Ceiling Height**

Floor to ceiling – 2.7m

**Equipment Maneuverability**

N/A

AREA

NET AREA  
22 nsm

Date | December 2014

Reference Number | L-1  
Department | Other  
Room Name | VIDEO-CONFERENCE ROOM,  
Type 1  
Page | 2 of 4**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Projection Screen	1	
Projector	1	
Wall Mounted		
Interactive Projector	1	
Flat Panel TVs	2	
Camera	1	
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Waste receptacle	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Table	1	
Chair	8	
Magnetic whiteboard	1	
Counter with storage	1	
A/V podium	1	



Date | **December 2014**

Reference Number | **L-1**  
 Department | **Other**  
 Room Name | **VIDEO-CONFERENCE ROOM,**  
 Type | **Type 1**  
 Page | **3 of 4**

**DESIGN CONSIDERATIONS**

CLINICAL  
ASSUMPTIONS

KEY ROOM  
ADJACENCIES

DESIGN FLEXIBILITY                      Space should accommodate multiple different types of meetings including video conferencing, teleconferencing, internal meetings, and presentations.

REGULATIONS                              National Building Code of Canada (2005)  
 Alberta Building Code (2006)

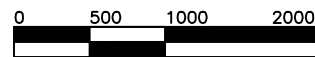
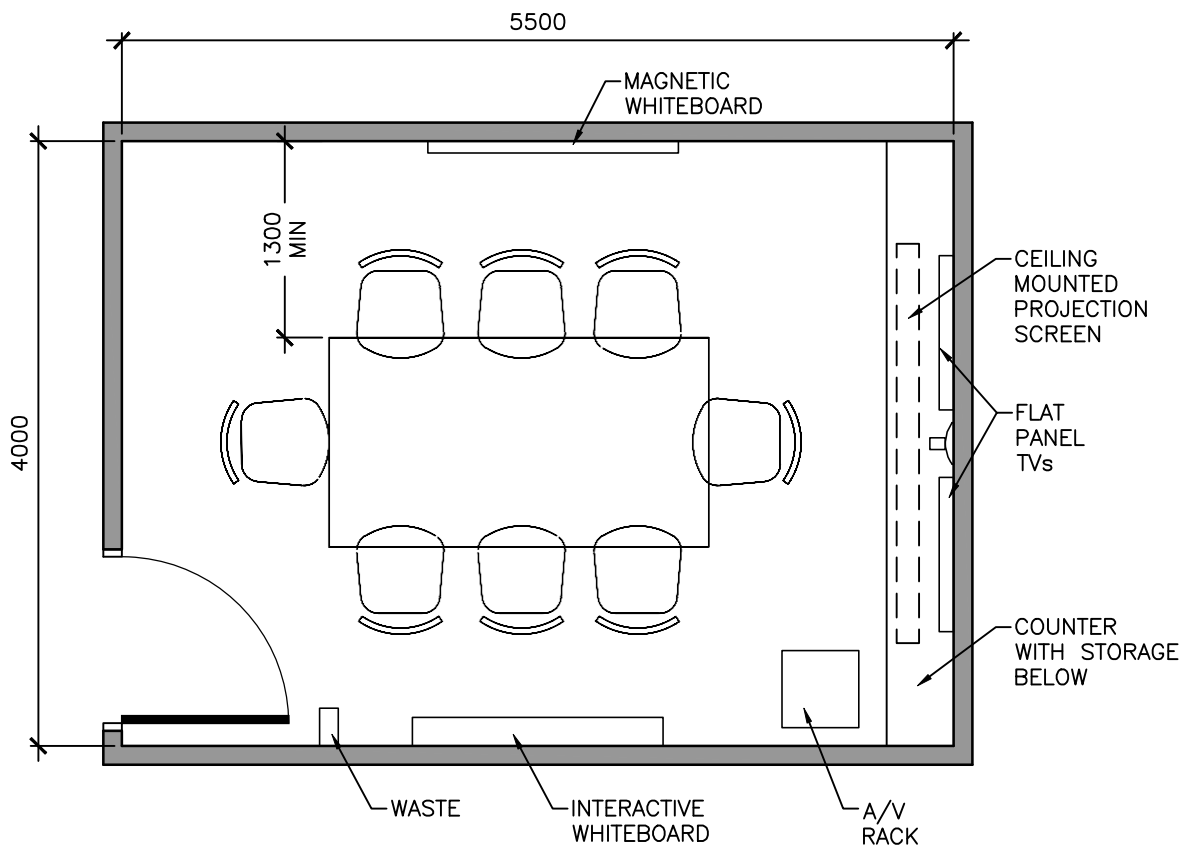
REFERENCES AND GUIDELINES                      Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
 Alberta Barrier-Free Design Guide (2008)  
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Date | December 2014

Reference Number  
Department  
Room Name  
Page

**L-1**  
**Other**  
**VIDEO CONFERENCE ROOM Type 1**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number | **L-2**  
Department | **Other**  
Room Name | **VIDEO-CONFERENCE ROOM,**  
Type | **Type 2**  
Page | **1 of 4****KEY PLANNING ASSUMPTIONS**

**PATIENT CARE PHILOSOPHY** Support space accommodating meetings, training, communication and education.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments/Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
	12			12

**KEY INFECTION CONTROL PROTOCOLS**

Alcohol based hand solution (wall mounted)

**KEY DIMENSIONS****Room Components**

Allow room for electronic video conferencing equipment and clear pathway around all sides of conference table.

**Ceiling Height**

Floor to ceiling – 2.7m

**Equipment Maneuverability**

N/A

AREA

NET AREA  
27 nsm

Date | December 2014

Reference Number | L-2  
Department | Other  
Room Name | VIDEO-CONFERENCE ROOM,  
Type 2  
Page | 2 of 4**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Projection Screen	1	
Projector	1	
Wall Mounted		
Interactive Projector	1	
Flat Panel TVs	2	
Camera	1	
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks
Waste receptacle	1	

## FURNITURE &amp; EQUIPMENT

Type	Qty.	Remarks
Table	1	
Chair	12	
Flip Chart	1	
Counter with storage	1	
A/V Podium	1	

Date | **December 2014**

Reference Number | **L-2**  
 Department | **Other**  
 Room Name | **VIDEO-CONFERENCE ROOM,**  
 Type | **Type 2**  
 Page | **3 of 4**

**DESIGN CONSIDERATIONS**

CLINICAL  
ASSUMPTIONS

KEY ROOM  
ADJACENCIES

DESIGN FLEXIBILITY                      Space should accommodate multiple different types of meetings including video conferencing, teleconferencing, internal meetings, and presentations.

REGULATIONS                                National Building Code of Canada (2005)  
 Alberta Building Code (2006)

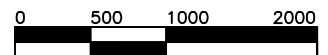
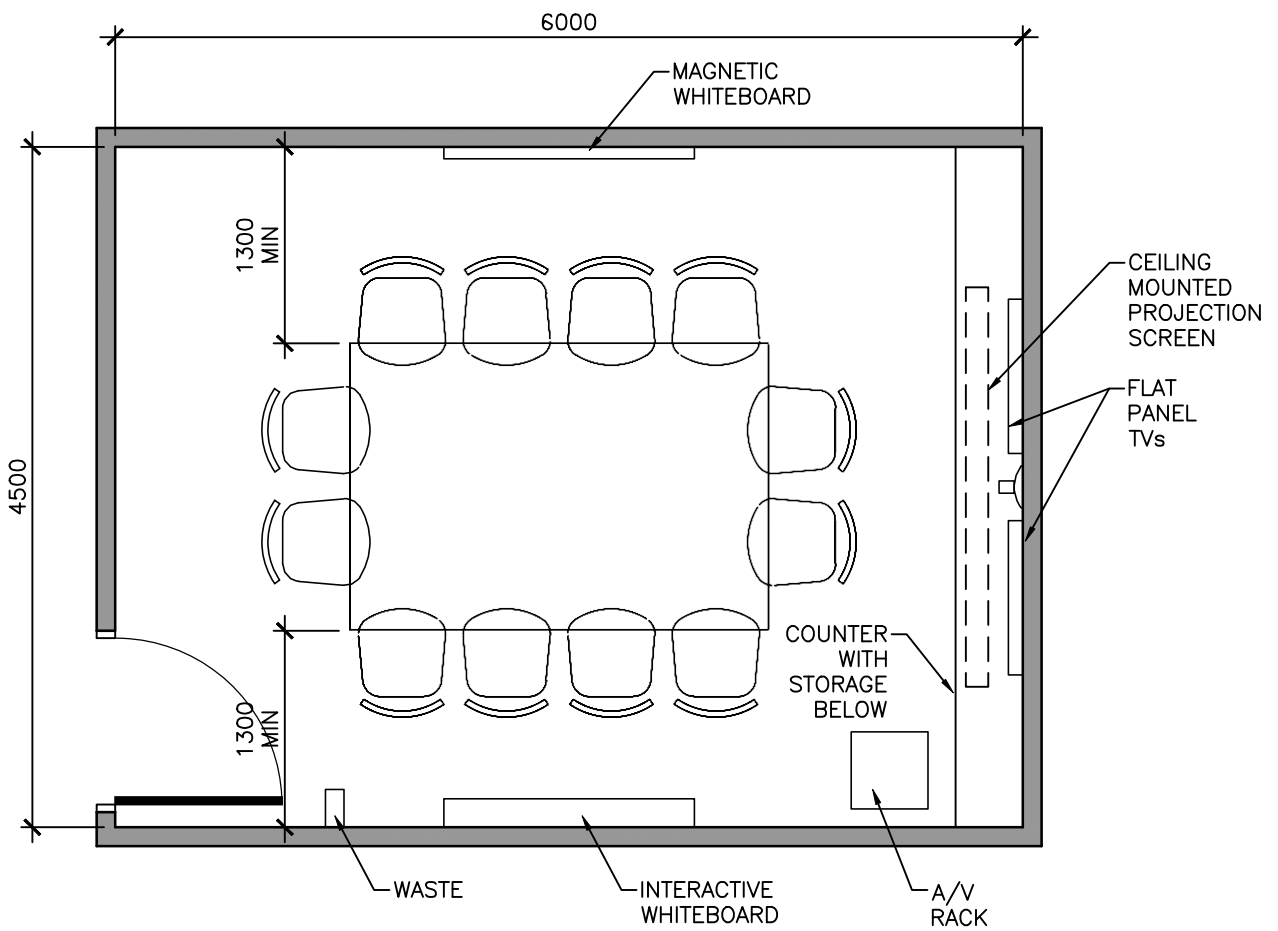
REFERENCES AND GUIDELINES                      Ontario Ministry of Health and Long-Term Care: Generic Output Specifications (2008)  
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Date | December 2014

Reference Number  
Department  
Room Name  
Page

**L-2**  
**Other**  
**VIDEO CONFERENCE ROOM Type 2**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



Date | **December 2014**Reference Number | **L-3**  
Department | **Other**  
Room Name | **VIDEO-CONFERENCE ROOM,**  
Type | **Type 3**  
Page | **1 of 4****KEY PLANNING ASSUMPTIONS**

PATIENT CARE PHILOSOPHY Support space accommodating meetings, training, communication and education.

**KEY FUNCTIONS**

- |  |  |
|--|--|
| <input type="checkbox"/> Assessment                  | <input type="checkbox"/> Observation/Monitoring    |
| <input type="checkbox"/> Clinical diagnostics        | <input type="checkbox"/> Research                  |
| <input type="checkbox"/> Conference                  | <input type="checkbox"/> Teaching                  |
| <input type="checkbox"/> Documentation/Charting      | <input type="checkbox"/> Major Treatment/Procedure |
| <input type="checkbox"/> Examination                 | <input type="checkbox"/> Minor Treatment/Procedure |
| <input type="checkbox"/> Patient/Family Consultation | <input type="checkbox"/> Multi disciplinary        |

**Comments/Other:****DESIGN OCCUPANCY**

Patient	Staff	Family	Other	Total
	20			20

**KEY INFECTION CONTROL PROTOCOLS**

Alcohol based hand solution (wall mounted)

**KEY DIMENSIONS****Room Components**

Allow room for electronic video conferencing equipment and clear pathway around all sides of conference table.

**Ceiling Height**

Floor to ceiling – 2.7m minimum

**Equipment Maneuverability**

N/A

AREA

NET AREA  
**57.5 nsm**

Date | December 2014

Reference Number | L-3  
Department | Other  
Room Name | VIDEO-CONFERENCE ROOM,  
Type 3  
Page | 2 of 4**EQUIPMENT/SERVICES**

## FIXED ELEMENTS

Ceiling Mounted	Qty.	Remarks
Projection Screen	1	
Projector	1	
Wall Mounted		
Interactive whiteboard	1	
Flat Panel TVs	2	
Camera	1	
Floor Mounted		

## MOBILE ELEMENTS

Type	Qty.	Remarks

## FURNITURE

Type	Qty.	Remarks
Table	1	
Chair	12	
Flip Chart	1	
A/V Podium	1	
Side table	2	
Magnetic whiteboard	1	
Counter with storage	1	



Date | **December 2014**

Reference Number | **L-3**  
 Department | **Other**  
 Room Name | **VIDEO-CONFERENCE ROOM,**  
 Type | **Type 3**  
 Page | **3 of 4**

**DESIGN CONSIDERATIONS**

CLINICAL  
ASSUMPTIONS

KEY ROOM  
ADJACENCIES

DESIGN FLEXIBILITY                      Space should accommodate multiple different types of meetings including video conferencing, teleconferencing, internal meetings, and presentations.

REGULATIONS                              National Building Code of Canada (2005)  
 Alberta Building Code (2006)

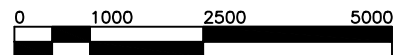
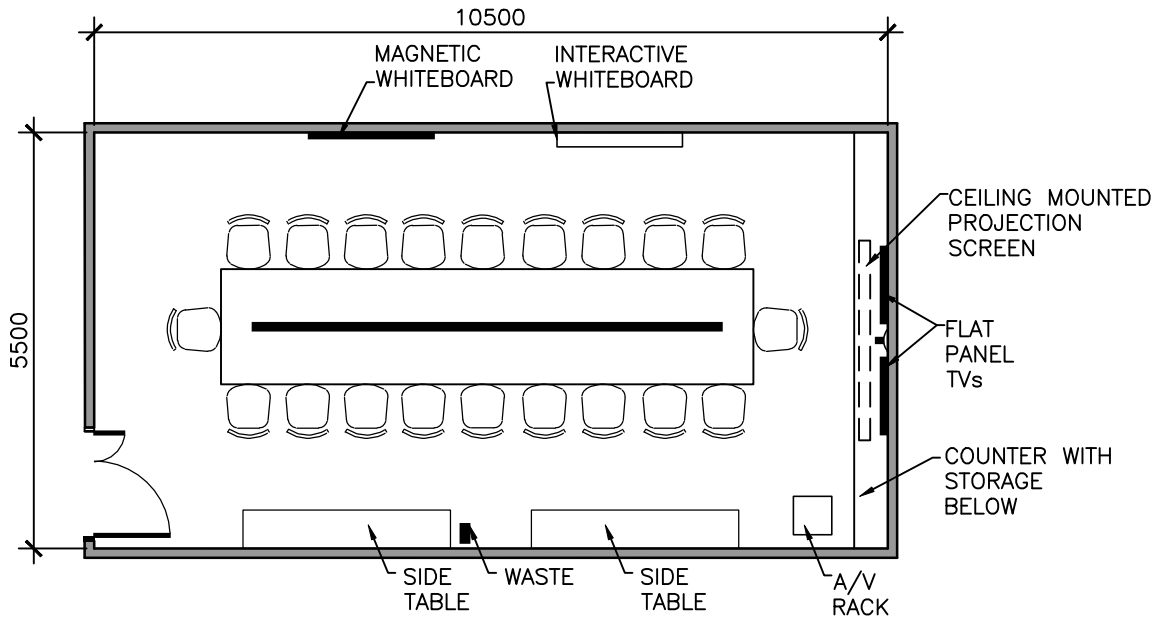
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Date | December 2014

Reference Number  
Department  
Room Name  
Page

**L-3**  
**Other**  
**VIDEO CONFERENCE ROOM Type 3**  
**4 of 4**

NOTE: EQUIPMENT INDICATED IS NOT COMPREHENSIVE OR ALL-INCLUSIVE. FURNITURE AND EQUIPMENT REQUIREMENTS MAY VARY BY SITE



## **SECTION C: PROJECT REPORT**

### **I. Project Background**

#### **Introduction**

In June 2008, Alberta Infrastructure tendered a project “Grossing Factors & Net Areas” to evaluate current and emerging facility planning practices and determine future targets necessary to ensure sustained quality for health care facilities. Agnew Peckham Health Care Planning Consultants and Dialog (formerly known as Cohos Evamy) formed an alliance to support this project which began in December, 2008. Final consultations with stakeholders occurred late in 2010.

A Project Steering Committee, comprised of representatives from Alberta Infrastructure (INFRA), Alberta Health and Alberta Health Services (AHS), was formed to oversee the project.

#### **Project Team**

The project team comprised of representatives from Alberta Infrastructure (INFRA), Alberta Health (Health) and Alberta Health Services (AHS).

The consultant project team was comprised of an alliance between Agnew Peckham Health Care Planning Consultants, acting as the lead consultant and DIALOG.

In addition to the alliance of these two firms, Texas A and M University (TAMU) agreed to provide support to Agnew Peckham for the grossing factors portion of the study in the form of data from several healthcare projects in the United States. TAMU is undertaking a similar study and has been collecting data for several years. Agnew Peckham and TAMU met at the beginning of the project and agreed to align methodologies and to share data. It is the hope that INFRA and TAMU will continue to work together to study and provide the global healthcare industry with accurate data on current healthcare facilities design in North America.

The project was also supported by the participation of several content experts to validate preliminary results and provide feedback to the team.

The Steering Committee would like to acknowledge the participation of these groups from AHS clinical staff that provided the valuable feedback to the Net Area study. The clinical review groups included representatives from:

- Ambulatory Care
- Coronary Care & Cardiology
- Critical Care (NICU, PICU)
- Diagnostic Imaging
- Emergency Department
- Infection Prevention & Control
- Inpatient Units
- Labour & Delivery

- Mental Health
- Rehabilitation
- Surgical Suite & PARR
- Workplace Health & Safety

## Objectives

The objective of the project was to identify facility planning guidelines to be used in the development of functional programs for future health facilities and to improve the design of health care facilities in the Province of Alberta by ensuring consistent and contemporary quality planning and design standards.

Based on research of current practices, benchmarking and analysis, the project identified recommendations for:

- Net room areas for key rooms/departments;
- Departmental grossing factors (to assist in determining the gross-ups from net area to departmental gross area) for selected departments; and,
- Building grossing factors (to determine the appropriate gross-ups from departmental gross area to building gross area).

## Scope

The study involved research of current practices, including a survey of existing space standards, a survey of 50 international health care facilities constructed within the past five years and discussion and a review of findings from the surveys and research by expert panels. The expert panels provided input and feedback on the proposed guidelines and recommendations.

## Outcome

The study has produced a database of healthcare and hospital area calculations that can be updated and maintained over time. The searchable database contains collected data on industry trends for the ratio between departmental net and departmental gross square-footage in significant patient care, diagnostic and treatment departments within hospitals, including the provision of comparison data of space requirements from clinical programs and the buildings that resulted. This approach will make planning data available to the industry in a way that allows for better predictions of square footage requirements and improved performance of health care buildings.

The database and any ongoing updates and maintenance will occur largely through a partnership between INFRA and TAMU. This research study for INFRA was reviewed by the Human Subjects' Protection Program and/or the Institutional Review Board at TAMU. TAMU and its sponsor Herman Miller for Healthcare have conducted a similar research study of primarily US hospitals and the parties agreed to collaborate to enrich both projects. The TAMU study built on a preliminary pilot study, "Analysis of departmental area in contemporary hospitals: calculation methodologies and design factors in major patient care departments", as conducted by D. Allison of Clemson University and D. K. Hamilton of TAMU.

## II. Approach

### Overview

As the Province of Alberta moves forward with new infrastructure projects, it has highlighted the importance of considering the impact of the quality of health facility design on enhancing and improving patient focused care, staff and physician satisfaction and the operational performance of the health care facility. The integration of planning and design concepts with outcomes for patient care and operational performance is a foundation of evidence based design and best practice. This philosophy formed the foundation for the overall project and the study methodology.

### Review of Study Components

The “Grossing Factors & Net Areas” identifies planning guidelines to be used in the development of functional programs and designs for future health care facilities in Alberta. Based on research of current practices, benchmarking and analysis, the project has developed recommendations for:

- net room areas for key rooms/departments;
- departmental grossing factors (to assist in determining the gross-ups from net area to departmental gross area); and,
- building grossing factors (to determine the appropriate gross-ups from departmental gross area to building gross area).

**Net Areas:** The objective of the net area room standards analysis was to identify guidelines for the appropriate net area for each of a number of typical rooms from a range of departments that are found in provincial health care facilities.

The net area room standards portion of the work included 65 room types in the final analysis. Net area is defined as the space (floor area) inside the walls of an individual room or the space (floor area) that includes the space for the specific function where there are no walls. (Refer to CAN/CSA-Z317.11.02 (R2007) – Area Measurement for Health Care Facilities.)

**Grossing Factors, Departmental and Building:** Recently constructed, innovative health care facilities in Canada, the United States, Australia, the United Kingdom, Germany and the Middle East were identified through agreed upon criteria for inclusion in the study. These facilities voluntarily agreed to participate and each provided a scaled floor plan (AutoCad files), which formed the database used in the study. The drawings received from these organizations were used to measure actual departmental (net-to-gross) and building (departmental-to-building) grossing factors. A database was developed to manage the information; this database provided the recommendations for the guidelines. As requested by some organizations, the identity of participants remains confidential and the report does not include any identifiers of specific facility information.

As the guidelines will form part of the Alberta Infrastructure Health Capital Planning manual, the recommendations were based upon current methods and projections regarding future trends and practices that could impact the outcomes. To maintain currency, only projects less than five years old were included.

Information was collected from health care facilities across a range of jurisdictions, within the full spectrum of facility types and sizes. The data was collected and recorded in a standardized manner so that it could be analyzed and the recommendations based on sound principles. The recommendations were presented and deliberated over with the Project Steering Committee comprising of representatives from the INFRA, AHS and Alberta Health. Canadian Standards Association (CSA) standard for area calculation in a health care facility was used to collect the data (CSA-Z317.11-02).

The approach and methodology behind each of the three components of the project was determined by the Project Steering Committee in the context of how the project results and recommendations would be presented, interpreted and used by the health care facility planners and designers.

For the Net Area Study, the Project Team identified 65 rooms for review, a compilation of the most frequently programmed rooms in health care facilities. For each of these rooms, a net area as a single number was recommended. This net area recommendation was compiled from research on existing room standards from Canada, United States and internationally. A net area room standards template was created to summarize the patient care philosophy, the key functions of the room, necessary equipment and potential design layouts. The net area recommendation, which was reviewed by both a Clinical Working Committee as well as the Project Steering Committee, is considered to be the “ideal” size for the room in question, given the planning parameters/assumptions that were developed for the project.

For the Grossing Factors Study, two components were identified:

- Departmental grossing factors; and,
- Building grossing factors.

### **Departmental Grossing Factor**

The recommended departmental grossing factors consist of a single number for each of the 18 departments under consideration. The study results were compiled through measurement of architectural plans for each of the identified departments in the study hospitals/facilities. The study results were summarized as an “average” and a “range” and then compared to results from other jurisdictions. “Proposed” guidelines for departmental grossing factors, a single number for each department, were developed for review by the industry including planners, architects, and mechanical and electrical professionals. Review of the study results and discussion on the appropriateness of the proposed guidelines occurred at a workshop convened to review the study results; the proposed recommendations were revised, as required, following this dialogue.

### **Building Grossing Factor**

The building grossing factor results were identified as a “range” for departmental to building grossing factors. The proposed guideline of building grossing factors was proposed after analysis of the study results. The proposed building grossing factors were reviewed in a workshop convened with planning and engineering consultants. It was anticipated that systems incorporating energy efficient and sustainable designs and/or smaller facilities in northern or extreme climates would drive differing grossing factors than conventional designs. It was considered important to develop a process to continue to deliberate the implications of sustainable design on gross-ups and to provide suitable, thoughtful

guidelines for future use. As a result of these discussions, a range of building grossing factors was created to serve as the guideline.

## **Objective**

The project “Grossing Factors & Net Areas” was initiated to identify planning guidelines for use in the development of functional programs and designs for future health care facilities. Based on research of current practices, benchmarking and analysis, the project identified recommendations for:

- Net room areas for key rooms/departments;
- Departmental grossing factors (to assist in determining the gross-ups from net area to departmental gross area); and,
- Building grossing factors (to determine the appropriate gross-ups from departmental gross area to building gross area).

The recommendations were based on measurements of existing facilities, including:

- A range of facility types - Academic Acute, Community Acute (large, medium and small), Rural Acute Care, Community Health Care Facilities (50 in total to be surveyed).
- Jurisdictions Alberta, Canada, U.S., Australia, Europe and United Kingdom.
- Net room areas to be evaluated: 65 rooms in total.
- Departments to be analyzed for departmental gross square feet: 18 departments.

As indicated above, three related studies were developed:

- Part A: Net Room Areas, Project Lead: DIALOG, including clinical workshops with expert panel.
- Part B1: Departmental Grossing Factors, Project Lead: Agnew Peckham.
- Part B2: Building Grossing Factors, Project Lead: Agnew Peckham, including mechanical/electrical workshop, facilitated by DIALOG.

## **TAMU Partnership**

The methodology and overall project were supported by a partnership between INFRA and TAMU for the collection and sharing of data related to net and gross areas for acute care health facilities in the USA. TAMU is known for its leadership in health care architecture and is committed to ongoing research in this field.

TAMU collected information from healthcare facilities located in the US. INFRA, with support from Agnew Peckham collected information from facilities located in Canada, Australia, and the United Kingdom. Both parties agreed to share the methodology of the data, relative to their area of expertise. To ensure success of the project, both parties created a common methodology for the measurement of healthcare facility data to ensure compatibility and compliance with Canadian Standards Association (CSA) standards, with a view to rendering the information useable and exchangeable by both parties. A site visit by the Alberta project team to TAMU in December 2008, confirmed the measurement standards that were used in the study. The database structure was refined to satisfy both studies and a document was created to track unusual circumstances for discussion and resolution by both parties to the agreement.

Common letters of invitation to participate in the study were sent out to healthcare facilities and architectural firms and it was the responsibility of each partner to keep in contact with and follow up with the firms/facilities they identified to get projects submitted.

Key benefits to the TAMU partnership included:

- Increased sample size for the same cost
- Fifteen (15) sites within the project timelines
- Access to an additional 15 sites in the future.
- Enhanced methodological rigour
- Shared methodology developed through group discussions and brainstorming.
- Experience of TAMU's recently completed work.
- Desire to publish and create/build on opportunities for continued collaboration.

### **Criteria for Selection of Participants**

Criteria for selection of participating facilities were determined by the project team, in collaboration with TAMU and with input from the Project Steering Committee. These are summarized below:

- Greenfield: the project could be a renovation/addition;
- Built/open within the last five years:
  - the project could be in the design phase but must be “approved” by regulatory authorities;
- Special circumstance, (e.g., “award winning” may extend the time); and,
- Specialty hospitals were selected to participate by the project team
  - specialized children’s rehabilitation hospital
  - new inpatient tower on an existing campus
  - new critical services wing on an existing building
  - community hospital (opened in 1999), with a contemporary plan and winner of several awards.

In addition, specific criteria were developed for community health centres. It was determined early in the study that the projects nominated for inclusion represented a wide range of programs and services. The Project Steering Committee determined that their inclusion could set up an “apples-to-oranges” comparison which could skew the results. Specific program criteria were developed for community health centres to create a more consistent “pool”, at least from the functional prospective. Table 4 provides the criteria developed by the Steering Committee.



**Table 5: Updating of Grossing Factors for Net and Departmental Areas  
Community health Centre Criteria**

Service	Included	Possible	Excluded
Urgent Care		✓	
Primary Care Services (provided by MD or NP)	✓		
Primary Care Services (provided by Allied Health Providers)		✓	
Surgical Services (day procedures)			✓
Dialysis Clinics		✓	
Dialysis Treatment Places			✓
Diagnostic Imaging		✓	
Infusions/Chemotherapy		✓	
Inpatients/> 24 hours stay			✓
Public Health			
• Prenatal care	✓		
• Post partum care	✓		
• Health promotion/disease prevention	✓		
• Communicable diseases	✓		
• Dental	✓		
• Nutrition	✓		
• Travel immunization	✓		
• Community action and school health	✓		
• Injury prevention	✓		
• Tobacco reduction	✓		
• Bereavement services	✓		
Mental health			
• Drug and alcohol counselling	✓		
• Children's mental health services	✓		
• Psychogeriatric services	✓		
Rehabilitation Services			
• Assessment and treatment	✓		
• Clinics, e.g., mobility clinics	✓		
Home Care Services			
• Chronic <sup>a</sup>	✓		
• Acute <sup>a</sup>	✓		
• Rehabilitation <sup>a</sup>	✓		
• Palliative <sup>a</sup>	✓		

Service	Included	Possible	Excluded
Community Care			
• Wound care <sup>a</sup>	✓		
• IV clinics <sup>a</sup>	✓		
• Seniors' services <sup>a</sup>	✓		
• Diabetes education <sup>a</sup>	✓		
• Diabetic nephrology prevention <sup>a</sup>	✓		
• Enterostomal therapy <sup>a</sup>	✓		
• Chronic disease prevention and management <sup>a</sup>	✓		
• Alberta aids for daily living <sup>a</sup>	✓		
<sup>a</sup> Public Health			

The participating facilities remain anonymous, as required for their participation. However, Table 5 acknowledges the participation of several organizations that helped to provide the information for the study.

*Table 6: List of Participating Individuals and Organizations*

- Alberta Health Services, Capital Management
- Kirk Hamilton, TAMU, Texas
- Sarel Levy, TAMU, Texas
- Nick Thorn, TAMU, Texas
- Andrew J Gordon, Chief Executive, Canmore Partnership Limited, Glasgow
- Céline Drolet, architecte, Directrice par interim, Direction de la normalisation et de la veille technologique, Public Works and Government Services Canada (PWGSC), Québec
- Colin Stevenson, Vice President of Operations, Colchester East Hants Health Authority
- David Gilroy, Infrastructure Managers Limited, Edinburgh
- Jennifer Hands, Director - Infrastructure Design & Policy Unit, Health Planning & Infrastructure Division, Queensland Health, Brisbane, Australia
- Jim D Kinnear, Director, Adams Consulting Group Ltd., Glasgow, UK
- Karen Connelly, Commissioning Manager, NHS Greater Glasgow and Clyde
- Liz Oke, Deputy Director of Operations, Corporate Development (Clinical Lead), Sherwood Forest Hospitals, UK
- Michael Hoefler, Northern Health
- Paul Whittlestone, Director of Consulting, Tribal Group, London, UK
- Peter Kamp, Chief Quantity Surveyor, Project Services Health Planning & Infrastructure Division, Queensland Health, Brisbane, Australia
- ANO Architects, Sudbury, Ontario
- DIALOG Design, Calgary, Alberta
- Farrow Architects Inc., Toronto, Ontario
- Jodoin Lamarre Pratte et Associes Architectes, Montréal, (Québec)
- McCallum Sather Architects, Hamilton, Ontario
- Montgomery Sisam Architects, Toronto, Ontario
- Parkin Architects, Toronto, Ontario
- Stantec Architecture, Toronto, Ontario
- Swanke Hayden Connell Architects, London, England

### Summary of Methodology

Each of the three studies took a generic methodology, as outlined below, and refined it to meet the needs of the three related studies:

- Research
- Measure
- Analyze
- Draft recommendations
- Receive feedback from expert panel and Steering Committee
- Publish results

While the focus was on the recommendations, the study also included presentations and discussions on:

- Research and drawings of net room areas;
- Data collection and analysis for departmental and building grossing factors;
- Recommendations, based on the research and survey findings;
- Review of a draft insert for the Health Facilities Capital Program Manual;
- An implementation plan for the recommendations as they relate to the planning manual for net areas and the grossing factors; and,
- Presentations and communication with clinical leadership in the province of Alberta.

The methodology was fine-tuned with TAMU and its research oversight team and the participating firms were consistent in its application.

### **III. Study Overview**

#### **Part A: Net Areas**

##### **Methodology**

###### Introduction

The objective of the net area room standards analysis is to identify a standard net area for each of a number of typical rooms from a range of departments that are to be found in provincial healthcare facilities.

Net area is defined as the space (floor area) inside the walls of an individual room or the space (floor area) that includes the space for the specific function where there are no walls. The net areas are provided in metric to one decimal point.

The Project Team developed a Net Area Room Standards template that describes the parameters of each of the 65 rooms, and provides a recommended net area. The preliminary templates were reviewed by the Project Steering Committee and feedback was provided. The next step was for the Final Draft Room Templates to be reviewed not only by the Project Steering Committee, but also a Clinical Working Committee composed of clinical specialists from the appropriate departments. Their recommendations are included in the final Net Area Room Standards templates.

###### Process

The following process was used to develop the net areas:

- Survey of existing standards both Canadian and international.
- Review list of rooms with Steering Committee for net area standards.
- Project Team internal workshop to assess results/draft principles for room templates.
- Develop Net Area Room Standards template.
- Project Steering Committee preliminary review and approval.
- Draft templates for each of the 65 rooms.
- Develop room layout/space diagrams that achieve functional requirements and refine net areas as an area test comparison.
- Revise Room templates to include comparison information
- Draft recommendations for net areas and comparison chart.
- Project Steering Committee/Clinical Working Group review of Net Area Room Standard templates and room diagrams.
- Revisions to draft templates.
- Project Steering Committee final approval.

##### **Planning Assumptions**

The following assumptions relating to Patient Care Philosophy and current protocols informed the development of the typical Net Area Room Guidelines:

- Ambulatory Care - Exam Rooms
  - Two exam rooms were developed to respond to patient access and care. The smaller room is wheelchair accessible; the larger room responds to stretcher access and the need to accommodate teaching.

- Ambulatory Care - Procedure Rooms
  - Two procedure rooms were developed. The smaller room responds to less intensive treatment. The larger procedure room responds to more intensive treatment and equipment access.
- Ambulatory Care -Treatment Station
  - Treatment stations are partitioned on three sides with full height walls and an open access on one side.
- Critical Care
  - All critical care inpatient rooms are enclosed private rooms.
- Inpatient Unit – Medical/Surgical
  - Inpatient rooms are either private or semi-private.
  - All private inpatient rooms have enclosed 3 piece bathrooms. Semi-private rooms are to have two 3-piece washrooms. Accessible bathroom net area is included in standard net room area. Location of bathrooms would be determined during design.
  - 4-bed Observation/Special Purpose Room is intended to be used for patients requiring higher levels of observation or patients that may require different patient-to-nurse ratio than a typical private or semi-private patient room.
- Patient Care Philosophy
  - Family centered care – Provision to accommodate the family or significant others is made in all inpatient rooms (except for isolation rooms and Mental Health inpatient rooms), exam rooms and acute care treatment cubicles.
  - A decentralized nursing care philosophy is used. Decentralized nursing stations are provided on inpatient units. A decentralized station for one nurse is included in the net area for the inpatient bedroom for ICU and CCU.
- Surgical Suite
  - Two generic sizes of operating rooms were developed. The larger room is intended to be used for specialized surgeries that are more staff and equipment intensive.

### Limitations

- Patient Care Philosophy
  - Any change to care philosophy and protocols may affect the room guidelines.
- Infection Control Protocols
  - Infection prevention control protocols and patient/staff safety protocols are noted where they affect net room area. The IP&C protocols are not comprehensive and reference should be made to current prevention and control strategy and standards.
  - Isolation room ante rooms are sized for access by clinical staff only. Patient transport access into the room by either stretcher or bed will take place via sliding doors directly into the inpatient room.
- Equipment and Furniture
  - Room net areas include allowance for major pieces of equipment and furniture that support the room function. All equipment and furniture pieces have not been identified and equipment lists provided are neither comprehensive nor all-inclusive.
  - Review of this report is required by INFRA, Alberta Health and AHS in order to coordinate information from an equipment review which is occurring independently of this document.
- Room Types

- Only a representative sample of rooms is included in the document. Additional rooms may be added in future projects.
- Room Diagrams
  - The room diagrams are for area illustration only. Each project team will need to plan and design their own rooms to suit the individual project requirements.

#### Recommended Separate Studies

The following two areas were recommended for separate study due to complexity of care issues.

- Bariatric Patients
  - Room net area guidelines have not been sized for bariatric patients. Additional space and design requirements need to be provided to accommodate this patient group.
- Emergency Department
  - Triage, Primary Communication Centre, and Waiting Area and Admitting were removed from the scope of this study as insufficient operating information was available. It was recommended that a separate study be undertaken to review the model of care in the Emergency Department and identify room requirements for the various sizes of departments.

#### Recommended Updates

- Updates and Revisions
  - It is recommended that revisions to the templates be made over time on a regular ongoing basis.
- Medical, Diagnostic, Data and Communications, Equipment and Technologies
  - Systems relating to these technologies and equipment constantly change. It is recommended that the net areas be updated on an ongoing basis to reflect these changes.

#### Information Gathering and Review

The information gathering and review followed a three step process: International Benchmark Review, North American Area Reference Review and Provincial Alberta Health Services Review. This process enabled the recommended areas to be examined from a variety of perspectives.

#### International Benchmark Review

The Project Team reviewed a number of reference guidelines and standards internationally. The following standards were sourced for information on standards:

- AIA standards
- Australasian Health Facility Guidelines
- National Health Service, UK
- National Health Service Scotland
- Design Guidelines for Hospitals and Day Procedure Centres, Victoria, Australia
- New South Wales (based on Australasian Guidelines)
- Netherlands Performance Criteria

The following Table 6 compares these facility guideline areas using areas from the above documents.

Table 6: Room Standard Type – International Benchmark Review

Note: Some room sizes have been updated since the compilation of the original report.

Room Standard Type	Alberta Recommended Area October 2014	Comparison Guidelines (m2)								
		CSA Z8000 September 2011	AIA 2010	Australasian	NHS	US	Ontario	GOS 2	Scotland	Netherland

**A AMBULATORY CARE**

-1	Examination Room, Type 1	12.0	12.0	11.2				12.4	13.0	7.5	10.0
-2	Examination Room, Type 2	13.0	13.0	7.4			11.2		13.9		
-3	Procedure Room, Type 1	15.5	16.5	0.0					16.7		
-4	Procedure Room, Type 2	22.5	23.0	0.0			16.3			20.0	
-5	Clinical Consultation Room	10.0	11.0	0.0	12.0		9.3	10.8	10.7	14.0	14.0
-6	Endoscopy Room	24.0	0.0	15.0	42.0	22.0	29.8				24.0
-7	Cystoscopy Room	24.0	0.0	32.5			41.85				24.0
-8	Urodynamics Room	33.0	0.0	0.0		22.5					
-9	Ear Nose Throat Room	15.5	15.5	0.0				12.4	15.8		
-10	Treatment Room Isolation	23.0	18.0	11.2	14.0				11.6		
-11	Treatment Station	9.0	9.5	7.4					7.4		
-12	EEG Room	14.5	16.0	0.0			11.2	14.4	14.9		
-13	Pulmonary Function Treatment Room	12.0	14.0	0.0			11.2	13.94	13.9		

**B EMERGENCY DEPARTMENT**

-1	Universal Treatment Space	12.0	12.0	7.4	12.0			9.3	17.7		
-2	Airborne Isolation Room	24.0	19.0	11.2	14.0	16.0			23.7		
-3	Resuscitation/Trauma Room	33.0	28.0	23.23	16.0-35.0	89.0		27.9			30.0
-4	Mental Health Room	11.0	12.0	0.0		11.0		11.2			

Room Standard Type	Alberta Recommended Area October 2014	Comparison Guidelines (m2)								
		CSA Z8000 September 2011	AIA 2010	Australasian	NHS	US	Ontario	GOS 2	Scotland	Netherland

### C CARDIOLOGY SERVICES

-1	ECG Room	13.5	12.0	0.0		16.0	13.1	12.1			16.0
-2	Stress Testing Room	22.0	29.2	0.0		12.0	23.3	19.5		24.0	
-3	CATH LAB / Control / Equipment	70.0	74.0	37.16+			55.8				

### D PARR

-1	Patient Post Anaesthesia Recovery	10.0	9.5	7.4		13.5	7.5				8.0
-2	Isolation Room	21.5	18.0	0.0	12.0		9.3				
-3	Pre-Op Holding	5.0/9.0	9.5/11.0	7.4			7.5				
-4	Pre-Op Holding Isolation	21.5									

### E INPATIENT MEDICAL/SURGICAL

-1	Private Bed Room, Isolation	35.0	38.6	14.86*	15.0*		15.8*	17.6*			
-2	Private Bed Room	28.5	27.0	14.86**	15.0**		15.8**	14.43**	26	26	14.0**
-3	Semi Private Bed Room	49.0	40.0	18.58**	25.0**			24.86**	36.7		21.0**
-4	Private Bed Room, Pediatrics	31.0	27.0	14.86**	15.0**	15**			26		
-5	Semi Bed Room, Pediatrics	49.0	0.0	18.58**	25.0**						
-6	4 Bed Observation/Special Purpose Rm	144.0	0.0	0.0	42.0**			49.72**			42.0**
-7	Palliative Care Bed Room	31.0	0.0	0.0							
-8	Medication Room	15.0	9.5 min.	4.7			9.3				
-9	Housekeeping	7.0/11.0	7.0/11.0	0.0			3.8				
-10	Clean Supply	11.0	11.0 min.	0.0	14		7.4			16.8	
-11	Soiled Holding	13.5	12.0-18.0	0.0	12		7.4			17.9	



Room Standard Type	Alberta Recommended Area October 2014	Comparison Guidelines (m2)								
		CSA Z8000 September 2011	AIA 2010	Australasian	NHS	US	Ontario	GOS 2	Scotland	Netherland

#### F CRITICAL CARE UNIT

-1	Private Bed Room, CCU	31.0	30.6	18.58**	20.0-24.0			30.5			
-2	Private Bed Room, ICU	29.5	29.0	0.0	20.0		21.4			26.1	18.0
-3	Private Bed Room, CVICU	31.0	30.6	18.58**							
-4	Private Bed Room, PICU	34.0	30.6	18.58**							
-5	Private Bed Room, NICU	28.0	18.0	11.15**	14.0						
-6	Patient Room, Isolation	39.0	38.1	0.0	20.0-25.0	26.0	17.7*	33.35*		32.1	

#### G MATERNAL NEWBORN

-1	LDR room	38.0	40.5	31.57	28.0	28.5		44.2			21.0
-2	Operative Birthing Room	60.0	60.0	40.85	36.0	40.0		66.0			
-3	Semi Private Room, Post-partum	49.0	0.0	0.0	25.0**						
-4	Private Bed Room, Post-partum	28.5	27.0	14.68**	15.0**	11.5**					

#### H SURGICAL SUITE

-1	Operating Room, General	60.0	55.0	37.16	42.0	55.0	41.86	51.0			36.0
-2	Operating Room, Special	70.0	60.0	55.74	52.0	55.0	65.0	60.0			42.0

#### I REHABILITATION MEDICINE

-1	Private Bedroom, Rehab, Isolation	35.0	38.6	14.86**			27.9	17.1*			
-2	Private Bedroom, Rehab	28.5	0.0	13.01**			27.9	17.0**			
-3	Semi Private Bedroom, Rehab	49.0	41.4	23.22**				26.2-34.0**			

Room Standard Type	Alberta Recommended Area October 2014	Comparison Guidelines (m2)								
		CSA Z8000 September 2011	AIA 2010	Australasian	NHS	US	Ontario	GOS 2	Scotland	Netherland

#### J MENTAL HEALTH & ADDICTIONS

-1	Private Bedroom, Isolation	24.0	24.1	0.0		11.0*	7.5*				
-2	Private Bedroom	23.0	18.6	9.29**	14.0**	10.5**	11.7**	18.5			
-3	Semi Private Bedroom	41.0	29.6-32.6	14.86**	28.0**		21.4**	29.7			

#### K DIAGNOSTIC IMAGING

-1	General Radiography	35.0	29.0	16.7	30.0	30.0	27.9	35.3			26.0
-2	Fluoroscopy Room	40.0	41.1	23.2	36.0	39.0	29.8	42.8			
-3	CT Scanner	42.0	40.0	0.0	45.0	36.0	37.2	40.9			26.0
-4	Mammography Room	15.0	14.0	9.3	16.0	15.0	14.9	14.4			14.0
-5	MRI	88.0	81.7-83.5	30.19-57.6	42.0	45.0	46.5	51.1-60.39		48.8	26.0
-6	Ultrasound	13.0	13.0	11.2	14.0	16.0	16.8	13.9			20.0
-7	Interventional Radiography	80.0	0.0	37.2	42.0	55.0		55.8		55.0	26.0
-8	SPECT/CT Scanner	42.0	0.0	0.0							

#### L OTHER

-1	Video-conference Room, Type 1	22.0	0.0	0.0							
-2	Video-conference Room, Type 2	27.0	30.0	0.0							
-3	Video-conference Room, Type 3	57.5	42.5	0.0							

\* Exclusive of areas for handwashing, gowning, storage of clean and soiled supplies, toilets, alcoves, etc.

\*\* Exclusive of toilets, alcoves, vestibules, etc.

### North American Area Reference Review

The project team reviewed the following North American References:

- AIA 2006/2010 Guidelines for Design and Construction of Health Care Facilities.
- Ontario Ministry of Health and Long Term Care: Generic Output Specifications (2008).
- Department of Veteran Affairs, U.S.
- Canadian Standards Association Draft Standard Z8000 Canadian Healthcare Facilities (2010) (CSA Z8000).
- New Red Deer Community Health Centre: Functional Programming Study (2005).
- Health and Welfare Canada Standards.
- Alberta 'Blue Book' (Technical Design requirements for Health Care Facilities).
- Infection Prevention and Control (IP&C) General Design Standards for Calgary Health Region Construction/Renovation Projects (July 2, 2008).
- National Association of Psychiatric Health Systems – Design Guide for the Built Environment of Behavioural Health Facilities (2010).

### CSA and AIA Comparison

The following Table 7 compares the updated area with the CSA Z8000 guidelines and the AIA2010 guidelines. Team members participated on the CSA Z8000 committee where national committee members reviewed results.

Table 7: Area Comparison – North American Benchmark Review

Room Standard Type	Comparison		Alberta Recommended Areas			Comments
	CSA Z8000-11 September 2011	AIA 2010	Alberta Area March 2012	Alberta October 2014 Updated Area	Comparison March 2011 – October 2014	

**A AMBULATORY CARE**

-1	Examination Room, Type 1	12.0	11.15	12.0	12.0		
-2	Examination Room, Type 2	13.0	7.43	13.0	13.0		CSA Scooter access.
-3	Procedure Room, Type 1	16.5		15.5	15.5		CSA = 3 sided access
-4	Procedure Room, Type 2	23.0		22.5	22.5		CSA = 4 sided access
-5	Clinical Consultation Room	11.0		10.0	10.0		
-6	Endoscopy Room		15.00	24.0	24.0		
-7	Cystoscopy Room		32.52	24.0	24.0		
-8	Urodynamics Room			33.0	33.0		
-9	Ear Nose Throat Room	15.5		15.5	15.5		
-10	Treatment Room Isolation	18.0	11.15	23.0	23.0		AI - include WC
-11	Treatment Station	9.5	7.43	9.0	9.0		
-12	EEG Room	16.0		14.0	14.5	0.5	
-13	Pulmonary Function Treatment Room	14.0		12.0	12.0		

**B EMERGENCY DEPARTMENT**

-1	Universal Treatment Space	12.0	7.43	12.0	12.0		
-2	Airborne Isolation Room	19.0	11.15	24.0	24.0		CSA does not include washroom
-3	Resuscitation/Trauma Room	28.0	23.23	33.0	33.0		
-4	Mental Health Room	12.0		11.0	11.0		

**C CARDIOLOGY SERVICES**

-1	ECG Room	12.0		13.5	13.5		
-2	Stress Testing Room	29.2		22.0	22.0		
-3	CATH LAB / Control / Equipment	74.0	37.16+	70.0	70.0		

Room Standard Type	Comparison		Alberta Recommended Areas			Comments
	CSA Z8000-11 September 2011	AIA 2010	Alberta Area March 2012	Alberta October 2014 Updated Area	Comparison March 2011 – October 2014	

#### D PARR

-1	Patient Post Anaesthesia Recovery	9.5	7.43	10.0	10.0		
-2	Isolation Room	18.0		21.0	21.5	0.5	
-3	Pre-Op Holding	9.5/11.0	7.43	5.0/9.0	5.0/9.0		
-4	Pre-Op Holding Isolation Room			21.0	21.5	0.5	Room area increased to allow for 1m splash radius.

#### E INPATIENT MEDICAL/SURGICAL

-1	Private Bed Room, Isolation	38.6	14.86*	35.0	35.0		
-2	Private Bed Room	27.0	14.86**	28.5	28.5		
-3	Semi Private Bed Room	40.0	18.58**	49.0	49.0		
-4	Private Bed Room, Pediatrics	27.0	14.86**	31.0	31.0		
-5	Semi Bed Room, Pediatrics		18.58**	49.0	49.0		
-6	4 Bed Observation/Special Purpose Rm			144.0	144.0		
-7	Palliative Care Bed Room			31.0	31.0		
-8	Medication Room	9.5 min.	4.65	15.0	15.0		
-9	Housekeeping	7.0/11.0		7.0/11.0	7.0/11.0		
-10	Clean Supply	11.0 min.		11.0	11.0		
-11	Soiled Holding	12.0-18.0		13.5	13.5		

#### F CRITICAL CARE UNIT

-1	Private Bed Room, CCU	30.6	18.58**	26.0	31.0	5.0	Enclosed washroom provided. Clearances around bed revised based on CSA recommendations.
-2	Private Bed Room, ICU	29.0		29.5	29.5		
-3	Private Bed Room, CVICU	30.6	18.58**	28.0	31.0	3.0	Enclosed washroom provided. Clearances around bed revised based on CSA recommendations].

Room Standard Type	Comparison		Alberta Recommended Areas			Comments
	CSA Z8000-11 September 2011	AIA 2010	Alberta Area March 2012	Alberta October 2014 Updated Area	Comparison March 2011 – October 2014	
-4 Private Bed Room, PICU	30.6	18.58**	32.0	34.0	2.0	Clearances around bed revised based on CSA recommendations.
-5 Private Bed Room, NICU	18.0	11.15**	28.0	28.0		
-6 Patient Room, Isolation	38.1		39.0	39.0		

### G MATERNAL NEWBORN

-1 LDR room	40.5	31.57	38.0	38.0		
-2 Operative Birthing Room	60.0	40.85	60.0	60.0		
-3 Semi Private Room, Post-partum			49.0	49.0		
-4 Private Bed Room, Post-partum	27.0	14.68**	28.5	28.5		

### H SURGICAL SUITE

-1 Operating Room, General	55.0	37.16	60.0	60.0		
-2 Operating Room, Special	60.0	55.74	70.0	70.0		CSA = 70.0m <sup>2</sup> for Hybrid 9.5.3

### I REHABILITATION MEDICINE

-1 Private Bedroom, Rehab, Isolation	38.6	14.86**	31.0	35.0	4.0	Area increase due to increase splash radius and revised clearances based on CSA recommendations.
-2 Private Bedroom, Rehab		13.01**	26.0	28.5	2.5	Area increase due to increase splash radius and revised clearances based on CSA recommendations.
-3 Semi Private Bedroom, Rehab	41.4	23.22**	44.5	49.0	4.5	Area increase due to increase splash radius, revised clearances based on CSA recommendations and AHS direction of min. clearance between beds.

Room Standard Type	Comparison		Alberta Recommended Areas			Comments
	CSA Z8000-11 September 2011	AIA 2010	Alberta Area March 2012	Alberta October 2014 Updated Area	Comparison March 2011 – October 2014	

#### J MENTAL HEALTH & ADDICTIONS

-1	Private Bedroom, Isolation	24.1		24.0	24.0		Including washroom. CSA= 18.5m <sup>2</sup> without washroom
-2	Private Bedroom	18.6	9.29**	23.0	23.0		Including washroom. CSA= 13m <sup>2</sup> without washroom
-3	Semi Private Bedroom	29.6-32.6	14.86**	41.0	41.0		

#### K DIAGNOSTIC IMAGING

-1	General Radiography	29.0	16.72	35.0	35.0		
-2	Fluoroscopy Room	41.1	23.23	40.0	40.0		
-3	CT Scanner	40.0		42.0	42.0		Not including washroom or control room
-4	Mammography Room	14.0	9.29	15.0	15.0		
-5	MRI	81.7-83.5	30.19-57.6	88.0	88.0		
-6	Ultrasound	13.0	11.15	13.0	13.0		
-7	Interventional Radiography		37.16	80.0	80.0		
-8	SPECT/CT Scanner			42.0	42.0		

#### L OTHER

-1	Video-conference Room, Type 1			22.0	22.0		
-2	Video-conference Room, Type 2	30.0		27.0	27.0		
-3	Video-conference Room, Type 3	42.5		57.5	57.5		

\* Exclusive of areas for handwashing, gowning, storage of clean and soiled supplies, toilets, alcoves, etc.

\*\* Exclusive of toilets, alcoves, vestibules, etc.

## Provincial Review

Full day Clinical Review Workshops, were held in Edmonton and Calgary on June 8 and 9, 2010. Clinical Reviewers were invited by AHS and asked to review the room data guidelines. AHS representatives came from Calgary, Edmonton and Red Deer participated in the workshops. The following is a list of Clinical Review department representatives that were invited to the meetings:

- Ambulatory Care
- Emergency Department
- Surgical Suite and PARR
- Labour and Delivery
- IPU Medical/Surgical
- Coronary Care and Cardiology
- Critical Care
- Rehabilitation
- Mental Health
- Diagnostic Imaging

Comments were recorded during the meetings and used to revise the room data guidelines and areas. Drawing revisions were made to the test fit drawings that were used to facilitate review.

An additional workshop was held on October 6, 2010 with AHS IP&C, and Workplace Health and Safety representatives. Their comments have been incorporated into the drawings and templates.

An additional NICU teleconference was held to receive review comments. These comments have been incorporated into the drawings and templates.

Additional comments were received by email forwarded by AHS. These comments have been incorporated into the drawings.

Feedback specific to the following typical rooms was received by email:

- **Ambulatory Care**
  - Urodynamics Room
  - Ear Nose Throat Room
  - EEG Room
  - Endoscopy Room
- **Cardiology Services**
  - ECG Room
  - Stress Testing Room
  - Cath Lab/Control/Computer Room
- **PARR**
  - Adult Recovery
  - Isolation Room
  - Pre-op Holding
- **Inpatient Unit – Medical/Surgical**
  - Medication Room



- **Critical Care Unit**
  - Private Bed Room, CCU
  - Private Bed Room, PICU
- **Diagnostic Imaging**
  - General Radiography Room
  - Interventional Radiography
  - Ultrasound Room
  - CT Scanner
  - SPECT/CT Room
  - MRI

## Definitions

The following definitions were used in relation to the Net Area Room Guidelines.

*Table 8: Key Definitions*

<b>Ambulatory Care</b>	A mode of delivering health care services on a same-day basis, not requiring overnight hospitalization.
<b>Building Gross Area</b>	The total area required for the building; including net room areas, departmental circulation, building circulation, mechanical and electrical space and exterior walls.
<b>Building Grossing Factors</b>	Assists in determining the appropriate gross-up from departmental gross area to building gross area
<b>Clinical Diagnostic</b>	Primary purpose of room is for clinical diagnostics, with diagnostics equipment and supplies in room where required
<b>Decentralized</b>	Dispersing frequently accessed functions throughout a unit in order to reduce the amount of time and travel required by staff. Decentralization can include but is not limited to nurse stations, charting, storage, or medication dispensing. The functions are typically dispersed in close proximity to the point of care and are meant to increase the amount of time the care giver is accessible to the patient.
<b>Department Area</b>	Total floor area within the boundaries of a department; includes net room areas, the partitions separating the rooms and circulation within the department.
<b>Department Grossing Factors</b>	Assists in determining the gross-up from net area to departmental gross area.
<b>Grossing Factors</b>	Grossing factors apply a percentage of additional space required to address horizontal and vertical circulation, partitions, mechanical, electrical & IT services, and external walls.
<b>Handwashing Station</b>	Includes sink, soap dispenser, lotion dispenser, paper towel dispenser, waste disposal. 1000mm radius splash zone to be free of curtains, equipment and furniture.
<b>Inpatient Care</b>	Care for patients that require hospitalization and observation/monitoring.
<b>Interdisciplinary</b>	Care and consultation provided by variety of disciplines and departments.
<b>Major Treatment</b>	Use of general anaesthetic Implantable devices Patient requires respiratory assistance
<b>Minor Treatment</b>	Generally ambulatory procedures No general anaesthetic
<b>Net Area</b>	The space (floor area) inside the walls of an individual room or the space (floor area) that includes the space for the specific function where there are no walls.
<b>Outpatient Care</b>	See "Ambulatory Care".

## List of Rooms for Net Area Guidelines

The following is the list of the 65 rooms which have been selected for the development of net area guidelines. This list was reviewed and approved by the Steering Committee for the project. The list represents those rooms that the Steering Committee believed were the most representative of typical rooms for health care facilities.

- **Ambulatory Care**
  - A-01 Examination Room, Type 1
  - A-02 Examination Room, Type 2
  - A-03 Procedure Room, Type 1
  - A-04 Procedure Room, Type 2
  - A-05 Consultation Room/Clinical Office
  - A-06 Endoscopy Room
  - A-07 Cystoscopy Room
  - A-08 Urodynamics Room
  - A-09 Ear Nose Throat Room
  - A-10 Treatment Station, Isolation
  - A-11 Treatment Station, Type 1
  - A-12 EEG Room
  - A-13 Pulmonary Function Treatment Room
- **Emergency Department**
  - B-01 Universal Treatment Space
  - B-02 Airborne Treatment Space
  - B-03 Resuscitation/Trauma Room
  - B-04 Mental Health Room
- **Cardiology Services**
  - C-01 ECG Room
  - C-02 Stress Testing Room
  - C-03 CATH Lab/Control/Computer Room
- **PARR**
  - D-01 PARR
  - D-02 Isolation Room
  - D-03 Pre-Op Holding
  - D-04 Pre-Op Holding Isolation
- **Inpatient Unit – Medical/Surgical**
  - E-01 Private Bed Room, Isolation
  - E-02 Private Bed Room
  - E-03 Semi Private Bed Room
  - E-04 Private Bed Room, Paediatric
  - E-05 Semi Bed Room, Paediatric
  - E-06 4-bed Observation/Special Purpose Room
  - E-07 Palliative Care Bed Room
  - E-08 Medication Room
  - E-09 Housekeeping
  - E-10 Clean Supply
  - E-11 Soiled Holding
- **Critical Care Unit**
  - F-01 Private Bed Room, CCU
  - F-02 Private Bed Room, ICU
  - F-03 Private Bed Room, CVICU
  - F-04 Private Bed Room, PICU
  - F-05 Private Bed Room, NICU

- F-06 Patient Room, Isolation
- **Labour and Delivery**
  - G-01 LDR Room
  - G-02 Operative Birthing Room
  - G-03 Semi Private Room, Post-Partum
  - G-04 Private Bed Room, Post-Partum
- **Surgical Suite**
  - H-01 Operating Room, General
  - H-02 Operating Room, Special
- **Rehabilitation Medicine**
  - I-01 Private Bed Room, Rehab, Isolation
  - I-02 Private Bed Room, Rehab
  - I-03 Semi Private Bed Room, Rehab
- **Mental Health and Addictions**
  - J-01 Private Bed Room, Mental Health, Isolation
  - J-02 Private Bed Room, Mental Health
  - J-03 Semi Private Bed Room, Mental Health
- **Diagnostic Imaging**
  - K-01 General Radiography
  - K-02 Fluoroscopy Room
  - K-03 CT Scanner
  - K-04 Mammography Room
  - K-05 MRI
  - K-06 Ultrasound
  - K-07 Interventional Radiography
  - K-08 Spect/CT Scanner
- **Other**
  - L-01 Video-Conference Room, Type 1
  - L-02 Video-Conference Room, Type 2
  - L-03 Video-Conference Room, Type 3

## Part B: Grossing Factors

### Introduction

As part of the methodology in the original pilot project, there were two components to the study of grossing factors;

- Departmental grossing factors; and,
- Building grossing factors.

The overall methodology was consistent for these components; selected facilities were measured; the pertinent information was managed in a database; the data were analyzed for noticeable trends; preliminary results were vetted with the Steering Committee (and others as necessary); and final recommendations were published.

The following provides specific detail for the two components of the Grossing Factors study.

### B1: Departmental Grossing Factors

#### Methodology

The objective of this study was to identify the appropriate range for net to departmental grossing factors. This was established by measuring 50 recently constructed projects. The definition of “departmental area” was described as:

*“Total floor area within the boundaries of a “department” and includes net room areas, the partitions separating the rooms and circulation within the department”.*

The study was based on the following tasks:

- Identification of potential subject facilities, by category;
- Application of screening survey to verify relevance to the study (to ensure ‘apples-to-apples’ comparisons);
- Data collection (measurement);
- Analysis and verification (including any additional surveys/follow-up with individual respondents);
- Recommendations based on current practices, emerging trends;
- Stakeholder input; and,
- Reporting.

The detailed methodology for this section involved the steps outlined below:

- Develop questionnaires
- Draft information package to be sent to facilities along with the questionnaire
- Research and identify facilities worldwide that meet criteria established during project initiation meeting
- Contact personnel at each facility to issue preliminary questionnaire and establish relationship

- Review questionnaire to assess eligibility into the study
- Conference call with candidate hospital to review questionnaire (as required)
- Document recommended short-list of candidate hospitals and conference call with Steering Committee to discuss and confirm
- Request updated drawings from candidate Hospitals
- Draft update to Steering Committee
- Receive and measure all eligible drawings
  - net room areas
  - total departmental areas
  - establish gross to net areas
- Summarize outcomes
- Analyze data to establish gross to net ratios for 18 departments
- Draft preliminary report/findings for Steering Committee

The deliverables for this study were:

- A survey of 18 departments in 50 facilities, showing;
  - net areas for 18 departments
  - total departmental area for each department
  - net-to-departmental gross calculations; and,
- A database that identified:
  - trends in sizes for net areas
  - per cent allocation to clinical rooms (as compared to support areas, work space/offices)
  - relationships between departmental space and workload.

## **Study Results**

Table 8 provides the results for the net-to gross departmental grossing factors for the 18 departments which were studied in detail.

**Table 9: Departmental Grossing Factor Benchmarking Study**

Department	Current Practices				Study Results		Proposed Departmental Grossing Factor
	Ontario	Quebec	Other	Alberta	Range	Average	
1 Ambulatory Care							
- Hospital	1.50	1.45	1.50	1.40	1.25 - 1.64	1.460	1.46
- Community Health Centre	1.50	1.45	1.40	1.40	1.36 - 1.56	1.45	1.44
2 Emergency Department							
- Hospital	1.60	1.50	1.60	1.50	1.47 - 1.79	1.61	1.60
- Community Health Centre (urgent care centre)	1.60	1.50	1.50	1.50	1.45 - 1.66	1.52	1.50
3 Cardiology Services, Electrodiagnostic Services	1.50	1.55	1.50	1.30	1.35 - 1.57	1.48	1.50
4 Day Surgery/PARR	1.60	1.50	1.50	1.40	1.44 - 1.67	1.57	1.55
5 Medical/Surgical Inpatient Unit	1.60	1.50	1.60	1.41 <sup>a</sup>	1.38 - 1.76	1.51	1.55
- inpatient areas				1.50			
- support areas				1.30			
6 Critical Care Unit	1.55	1.50	1.55	1.60	1.35 - 1.65	1.51	1.55
7 Labour and Delivery/Birthing Unit	1.60	1.50 <sup>b</sup>	1.60	1.50	1.28 - 1.60	1.48	1.55
8 Surgical Suite (including operating rooms)							
- operating rooms	1.60	1.55	1.65	1.45	1.37 - 1.7	1.54	1.60
- PACU	1.60	1.55	1.55	1.45	1.48 - 1.8	1.65	1.60
- offices	1.35 - 1.60	1.55	1.48	1.45	1.35 - 1.5	1.47	1.60 <sup>c</sup>
9 Rehabilitation Services							
- inpatient unit	1.55	1.40	1.55	1.50	1.37 - 1.54	1.44	1.55
- outpatient rehab areas	1.45	1.40	1.45	1.30			1.40
10 Mental Health & Addictions							
- inpatient unit	1.50	1.50	1.50	1.40	1.45 - 1.7	1.55	1.55
- ambulatory care clinic areas	1.50	1.50	1.50	1.40	1.34 - 1.6	1.43	1.45
11 Diagnostic Imaging	1.55	1.55	1.55	1.50	1.35 - 1.67	1.50	1.50
12 Haemodialysis	1.50 - 1.55	1.45	1.5250	1.40	1.26 - 1.62	1.47	1.50
13 Laboratory	1.45	1.40	1.35	1.30 - 1.40	1.12 - 1.47	1.29	1.35
14 Pharmacy	1.30	1.35	1.30	1.25	1.11 - 1.42	1.25	1.30
15 Education and Training	1.15 - 1.35	1.40	1.25	1.30	1.11 - 1.34	1.23	1.30
16 Respite and Palliative Care	1.55	1.50	1.55		1.42 - 1.51	1.47	1.55
17 Central Sterilization & Re-processing	1.30	1.35	1.30	1.15	1.08 - 1.37	1.20	1.25
18 Food Services	1.25	1.25	1.25	1.20	1.05 - 1.29	1.16	1.25

<sup>a</sup> Assumes blended value based on 45 percent of the area is Support and 55 percent is clinical

<sup>b</sup> Caesarian Section room/area is grossed up at 1.55

<sup>c</sup> If planned as flex space, use 1.60

## **B2: Building Grossing Factors**

The objective of this component of the study was to identify the appropriate range for departmental to building grossing factors. The data/results are based on measurements from 50 recently constructed projects. The building gross area was defined as follows:

*“The total area required for the building, including net room areas, departmental circulation, building circulation, mechanical and electrical space and exterior walls.”*

The study reviewed the breakdown of grossing factors in the following categories:

- Mechanical/electrical/data;
- Circulation (vertical and horizontal); and,
- Exterior wall thickness.

The standard building grossing factors were identified after a workshop with engineering consultants to create a range of standards, based on the building systems strategy. The workshop supported the previous systems incorporating energy efficient and sustainable designs and/or smaller facilities in northern or extreme climates will drive different grossing factors than conventional designs. This strategy is intended to avoid ‘demotivating’ creative sustainable designs.

The detailed methodology for this study is shown below:

- Develop building information sheet for each site (based on same survey results as Part B1)
- Review drawings and
  - measure all total departments
  - measure all total building circulation, outside walls, stairwells, etc.
  - determine mechanical and electrical areas
- Summarize the outcomes
  - total departmental
  - gross-ups for building
  - gross-ups for mechanical/electrical
- Total building gross-ups
- Draft update to Steering Committee
- Convene workshop with multidisciplinary team, primarily mechanical and electrical professionals to
  - assess preliminary results
  - determine trends/best practices for all conditions (e.g., sustainability, northern climate, etc.)
- Develop DRAFT recommendations based on the outcomes of workshop, to address
  - gross-ups for building
  - gross-ups for mechanical/electrical
  - total building gross-ups
- Draft preliminary report/findings for the Steering Committee

The deliverables for this study were:



- A survey of 50 facilities, demonstrating
  - departmental gross area for every department
  - total mechanical and electrical area
  - total building circulation area
  - total exterior wall area
  - total gross building area
  - departmental to building gross calculations
  
- A database review identifying
  - per cent allocation of each department
  - implications of sustainable design on mechanical and electrical space

As noted above, the methodology for the grossing factors study included a mechanical and electrical stakeholders' workshop. The purpose of the workshop was to review the departmental to building gross-ups, specifically to identify outliers and investigate the potential rationale for these and to consider the implications of sustainable design on gross-ups and provide recommendations. This was facilitated by DIALOG/DIALOG engineers. Stakeholders included architects, engineers and functional programmers (consultants), engineers from authorities having jurisdiction, building users and project managers.

## **Study Results**

Table 10 provides the results of the building grossing factors portion of the report.

Table 10: Building Grossing Factor Benchmarking Study

Source	Hospital		Community Health Centre
	Up to 100 beds	100 Beds Plus	
<b>Ontario</b>	<b>1.265</b>	<b>1.265</b>	<b>n/a</b>
- circulation	1.15	1.15	
- core mechanical and electrical	1.10	1.10	
<b>Quebec</b>	<b>1.265</b>	<b>1.265</b>	<b>n/a</b>
- circulation	1.15	1.15	
- core mechanical and electrical	1.10	1.10	
<b>Other</b>	<b>1.38</b>	<b>1.44</b>	<b>1.215</b>
- circulation	1.20	1.22	1.125
- core mechanical and electrical	1.15	1.18	1.08
<b>Alberta</b>	<b>1.27</b>	<b>1.29</b>	<b>1.20</b>
<b>Study Results</b>			
<i>Range</i>	<b>1.11 - 1.41</b>	<b>1.16 - 1.74</b>	<b>1.07 - 1.26</b>
- circulation	1.06 - 1.24	1.12 - 1.39	1.03 - 1.18
- core mechanical and electrical	1.05 - 1.14	1.04 - 1.25	1.04 - 1.07
<i>Average</i>	<b>1.29</b>	<b>1.37</b>	<b>1.15</b>
- circulation	1.18	1.23	1.12
- core mechanical and electrical	1.09	1.11	1.03
<b>DRAFT Proposed Building Grossing Factor</b>	<b>1.344</b>	<b>1.378</b>	<b>1.296</b>
- circulation	1.200	1.225	1.200
- core mechanical and electrical	1.120	1.125	1.080
<b>WORKSHOP FEEDBACK</b>	<b>1.38 to 1.40</b>	<b>1.42 to 1.44</b>	<b>1.24 to 1.34</b>
- circulation	1.20 - 1.21	1.21 - 1.22	1.18 - 1.22
- core mechanical and electrical	1.15 - 1.16	1.17 - 1.18	1.05 - 1.10
<b>Proposed Building Grossing Factor</b>	<b>1.30 to 1.34</b>	<b>1.37 to 1.41</b>	<b>1.20 to 1.26</b>
- circulation	1.18 - 1.20	1.22 - 1.24	1.14 - 1.18
- core mechanical and electrical	1.10 - 1.12	1.12 - 1.14	1.05 - 1.07

Note: Total Building Grossing Factors are compounded; total values are determined by applying the circulation factor to the gross departmental area. The core mechanical/electrical is then applied to the that total (the total departmental and the building circulation).