

# SEPS+BIM

Space and Equipment Planning System  
+  
Building Information Modeling

## Part 1

Guidelines for  
Creating BIM Templates

**VA**



**U.S. Department  
of Veterans Affairs**

**Office of Construction & Facilities Management**



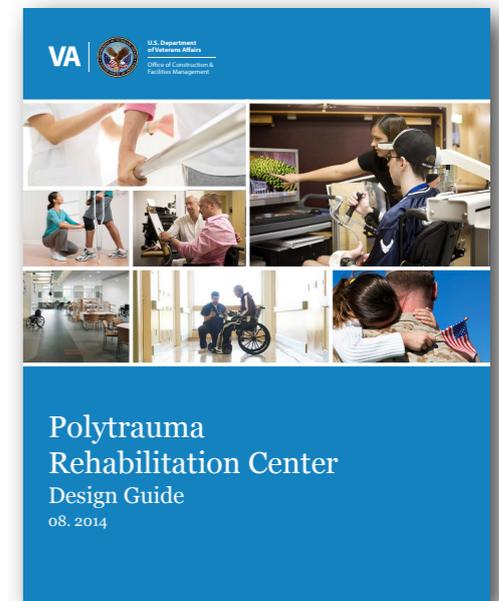
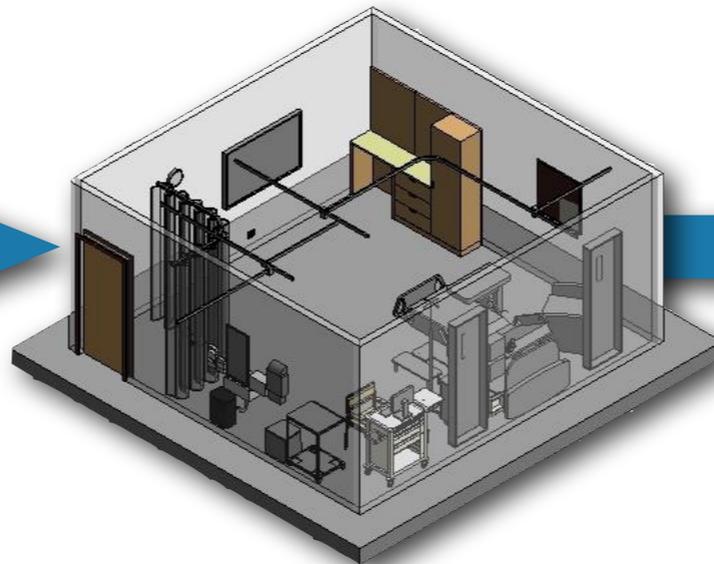
# 1 - Use BIM for VA Design Guides

VA is now requiring a BIM process to be used for all updates of planning and design standards

Criteria Dept Name	Criteria FA Name	Room Code	Room Type Name	Criteria Room Name
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	LOB01	LOBBY, SEATING AREA	Lobby
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	RECP1	RECEPTION	Reception
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	TLTU1	TOILET	Toilet, Visitor
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	BX001	EXCHANGE, VENDING (EQUIPPED BY OTHERS)	Vending Area

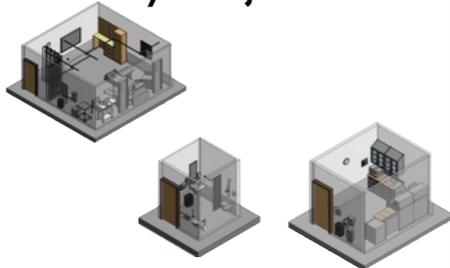
A	B	C	D
<b>2 - RECEPTION AREA</b>			
<b>1 - WR001 - Waiting</b>			
JSN	Content Item	Agency	Qty
A5076	Dispenser, Hand Sanitizer, Free Standing	VA	1
A5210	Bracket, Television, Wall Mounted, w/Adjust Arm	VA	1
A5220	Bracket, Television, Wall Backing	VA	1
A6046	Artwork, Decorative, With Frame	VA	1
F0206	Chair, Side, Bariatric, With Arms	VA	1
F0305	Chair, Waiting Room, Single	VA	3
F2300	Rack, Magazine, Wall Mounted	VA	1
F2310	Rack, Pamphlet, Wall Mounted	VA	1
F3200	Clock, Battery, 12" Diameter	VA	1
M0515	Television, Plasma	VA	1
<b>2 - PLAY1 - Playroom</b>			
JSN	Content Item	Agency	Qty
A1010	Telecommunication Outlet	VA	1
A5210	Bracket, Television, Wall Mounted, w/Adjust Arm	VA	1
A5220	Bracket, Television, Wall Backing	VA	1
A6046	Artwork, Decorative, With Frame	VA	2
F0215	Chair, Child's	VA	4
F0305	Chair, Waiting Room, Single	VA	2
F0760	Table, Child's	VA	1
F2000	Basket, Wastepaper, Round, Metal	VA	1
F2045	Furniture, Playroom, Assorted	VA	1
F3200	Clock, Battery, 12" Diameter	VA	1
M0515	Television, Plasma	VA	1
<b>3 - RECP1 - Reception</b>			
JSN	Content Item	Agency	Qty
A1010	Telecommunication Outlet	VA	2
A1015	Telephone, Desk, Multiple Line	VA	2
A6105	Counter, Reception Control, Built-In	VA	1
F0275	Chair, Swivel, High Back	VA	1



# 2- BIM Template Process

1- Excel Room & Contents List from SEPS.

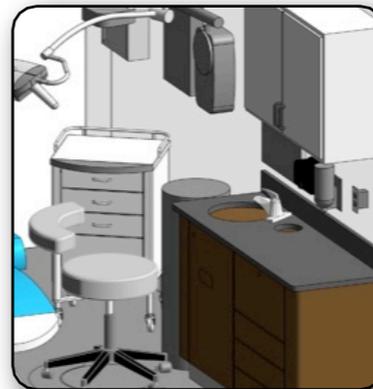
2- ALL Available Revit Family Objects



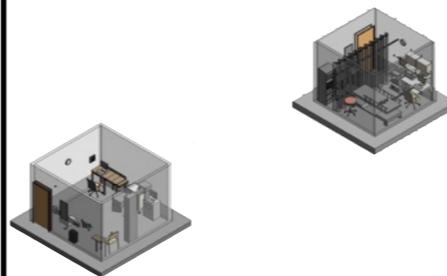
3. ALL Available BIM Templates as Individual Files  
"N"=number of BIM templates

Department Update AE Submits to VA

1- Excel Room & Contents With Status Edits.



2- Any New Revit Family Objects



3. New BIM Templates



4. Department Design Guides and Data

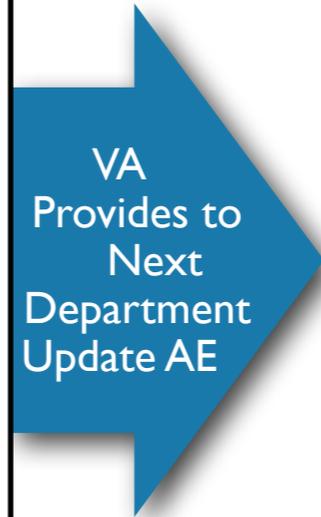
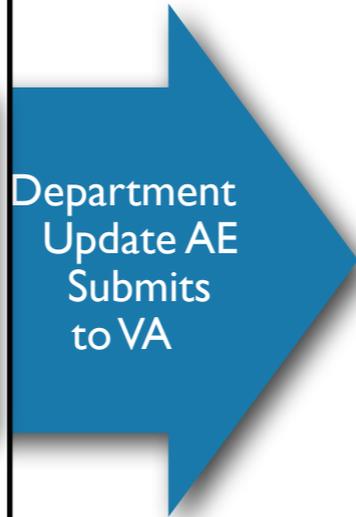
VA Provides to Next Department Update AE

1- Excel Room & Contents List from SEPS.

2- Revit Family Objects Updated + more object



3. ALL Available BIM Templates as Individual Files  
N+New=Number of BIM Templates



+

+/-



## 1- Rooms Excel File

## 2- Content Excel File

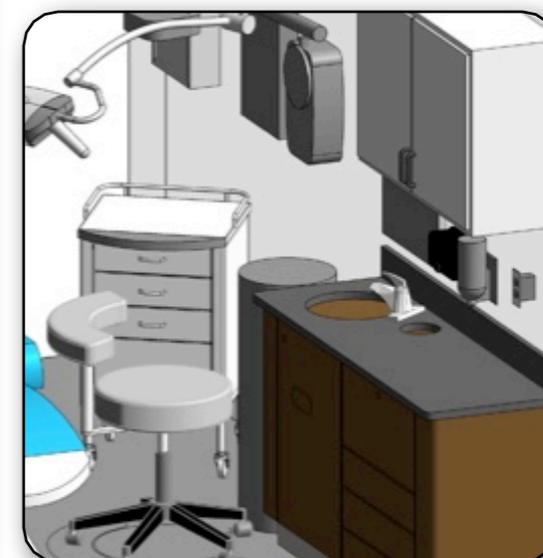
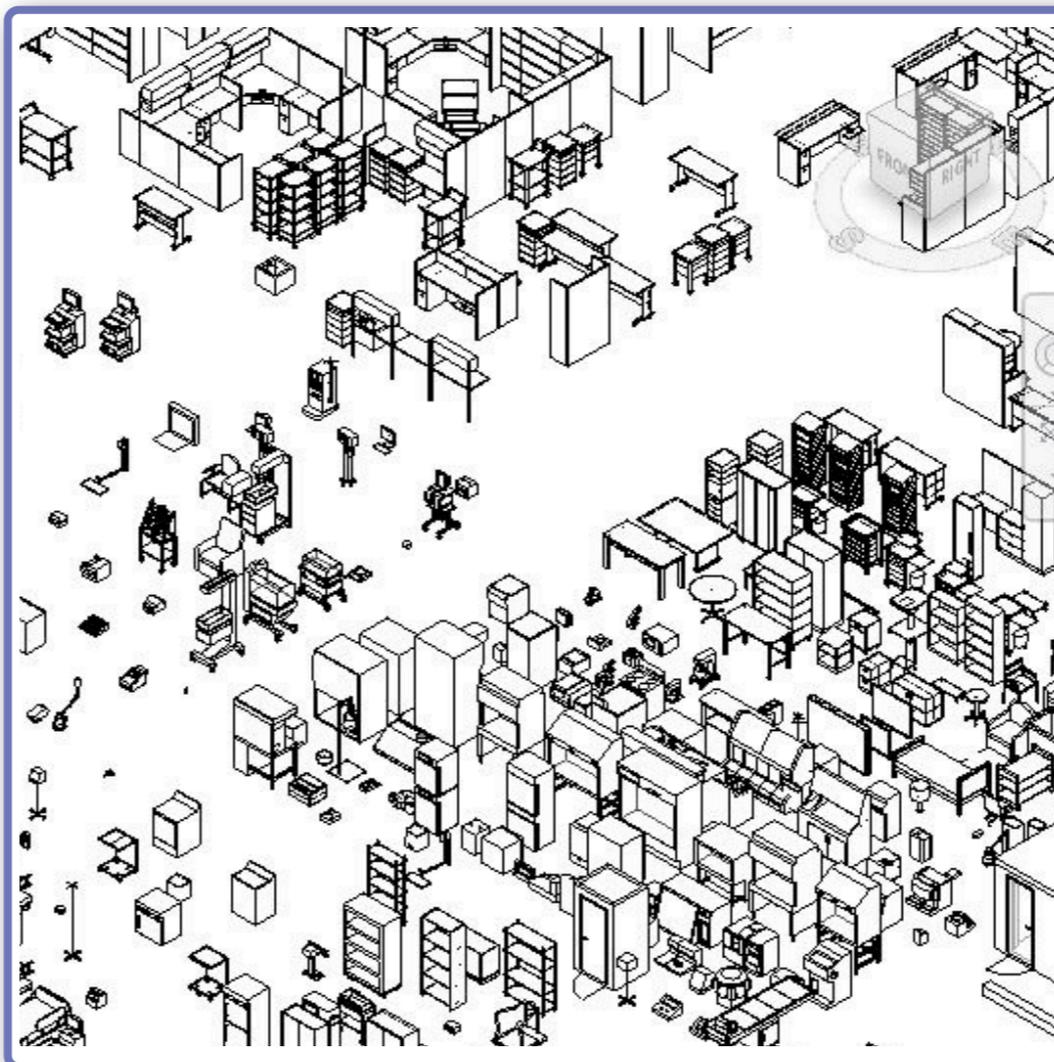
A	E	I	J	K
Criteria Dept Name	Criteria FA Name	Room Code	Room Type Name	Criteria Room Name
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	LOB01	LOBBY, SEATING AREA	Lobby
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	RECP1	RECEPTION	Reception
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	TLTU1	TOILET	Toilet, Visitor
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	BX001	EXCHANGE, VENDING (EQUIPPED BY OTHERS)	Vending Area
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	WRC01	WAITING	Sub Waiting
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	BRPT1	Bedroom, PRC, 1 Bed	Patient Room, One Bed
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	TLTS2	TOILET/SHOWER, INPATIENT	Bathroom, Patient
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	TLTS2	TOILET/SHOWER, INPATIENT	Bathroom, Patient, Shower Litter
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	BRPT2	Bedroom, PRC, Isolation, 1 Bed	Isolation Patient Room, One-Bed
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	TLTS2	TOILET/SHOWER, INPATIENT	Isolation Bathroom, Patient
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	BRAR1	ANTEROOM, ISOLATION, NEGATIVE PRESSURE	Isolation, Anteroom
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	FSCD1	FOOD SERVICE, CAFETERIA DINING ROOM	Dining Room, Congregate
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	DAYR1	DAYROOM	Living Room, Family Support
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	CRA02	CONFERENCE ROOM, MEDIUM	Multipurpose Room, Family Support
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	DAYR1	DAYROOM	Day Room
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	CMP01	COMPUTER ROOM	Recreational Computer Activities Room

A	B	C	D
<b>2 - RECEPTION AREA</b>			
<b>1 - WRC01 - Waiting</b>			
JSN	Content Item	Agency	Qty
A5076	Dispenser, Hand Sanitizer, Free Standing	VA	1
A5210	Bracket, Television, Wall Mounted, w/Adjust Arm	VA	1
A5220	Bracket, Television, Wall Backing	VA	1
A6046	Artwork, Decorative, With Frame	VA	1
F0206	Chair, Side, Bariatric, With Arms	VA	1
F0305	Chair, Waiting Room, Single	VA	3
F2300	Rack, Magazine, Wall Mounted	VA	1
F2310	Rack, Pamphlet, Wall Mounted	VA	1
F3200	Clock, Battery, 12" Diameter	VA	1
M0515	Television, Plasma	VA	1
<b>2 - PLAY1 - Playroom</b>			
JSN	Content Item	Agency	Qty
A1010	Telecommunication Outlet	VA	1
A5210	Bracket, Television, Wall Mounted, w/Adjust Arm	VA	1
A5220	Bracket, Television, Wall Backing	VA	1
A6046	Artwork, Decorative, With Frame	VA	2
F0215	Chair, Child's	VA	4
F0305	Chair, Waiting Room, Single	VA	2
F0760	Table, Child's	VA	1
F2000	Basket, Wastepaper, Round, Metal	VA	1
F2045	Furniture, Playroom, Assorted	VA	1
F3200	Clock, Battery, 12" Diameter	VA	1
M0515	Television, Plasma	VA	1
<b>3 - RECP1 - Reception</b>			
JSN	Content Item	Agency	Qty
A1010	Telecommunication Outlet	VA	2
A1015	Telephone, Desk, Multiple Line	VA	2
A6105	Counter, Reception Control, Built-In	VA	1
F0275	Chair, Swivel, High Back	VA	1

- VA will provide two Excel files.
  1. One lists all the rooms and associated RoomCodes
  2. Content in the rooms and JSN numbers of the objects.
- Your task is to use the Excel files and update them to match the design guide update and deliver them back to VA.
- The Room Code and JSN Object numbers need to be maintained in order for VA to keep track of the data and changes.
- The Excel files are a direct output from SEPS and reflect the current default standards for these rooms and content.

## 3- Revit Family Objects Aligned with DoD MILSTD 1691 - JSNs

- [Parent Directory](#)
- [A0033 - Hand Sanitizer, Wall Mounted.rfa](#)
- [A0060 - Rack, Lead Apron.rfa](#)
- [A0900 - Relay Rack, Aluminum 21 x 15.rfa](#)
- [A0901 - Cable Management, Horizontal Base Unit 12 x 12.rfa](#)
- [A0902 - Rear Wire Frame 19 x 5.rfa](#)
- [A0903 - Rear Hinged Cover, for LAN Rack 12 x 12.rfa](#)
- [A0904 - Fiber Optic Cabinet, 36 Port, Rack Mounted 17 x 12.rfa](#)
- [A0905 - Adapter Panel With Couplers, Blue, 6 Port, SMMM 12 x 12.rfa](#)
- [A0906 - Adapter Panel With Couplers, Yellow, 6 Port, SMMM 12 x 12.rfa](#)
- [A0908 - Patch Panel, 110 BlockRJ-45, Cat 5E, 48 Port, 568A 19 x 5.rfa](#)
- [A0910 - Patch Panel, 110 BlockRJ-45, Cat 5E, 96 Port, 568A 19 x 3.rfa](#)
- [A0911 - Power Supply, Uninterruptable, Rack Mounted 19 x 18.rfa](#)
- [A0912 - Battery Pack, Extended for use with UPS \(A0911\) 19 x 26.rfa](#)
- [A0913 - Switch, Local Area Network \(LAN\) 18 x 20.rfa](#)
- [A0914 - Management Processor Module for LAN Switch 12 x 12.rfa](#)
- [A0915 - Power Supply, 725 W, for LAN Switch 12 x 12.rfa](#)
- [A0916 - Switching Module, Desktop, Fast Ethernet 18 x 16.rfa](#)
- [A0917 - Switching Module, MM Fiber, Gigabit Ethernet Server 12 x 12.rfa](#)
- [A0918 - Switching Module, SM, Gigabit Ethernet Server 12 x 12.rfa](#)
- [A1000 - Extinguisher, Fire.rfa](#)
- [A1010 - Telecommunication Outlet.rfa](#)
- [A1011 - Telephone, Desk, 1 Line 12 x 12.rfa](#)
- [A1012 - Telephone, Wall Mounted, 1 Line 12 x 12.rfa](#)
- [A1014 - Telephone, Wall Mounted, 1 Line, With Speaker 12 x 12.rfa](#)
- [A1015 - Telephone, Desk, Multiple Line 12 x 12.rfa](#)
- [A1016 - Telephone, Desk, With Speaker 12 x 12.rfa](#)
- [A1030 - Locker, 2 Person, Over Under.rfa](#)
- [A1066 - Mirror, Float Glass.rfa](#)
- [A1080 - Mirror, Posture, Wall Mounted 28x 6.rfa](#)
- [A1085 - Mirror, SS, With SS Frame, 36x18.rfa](#)
- [A1086 - Mirror, Psychiatric.rfa](#)
- [A1090 - Mirror, Float Glass, With SS Frame & Shelf.rfa](#)
- [A1095 - Message Board, Digital.rfa](#)
- [A1107 - Rail System, Utility, Gas and Electric.rfa](#)
- [A1110 - Headwall, Prefabricated, General, 1-2 bed.rfa](#)
- [A1115 - Console, Service, Infant, Prefabricated.rfa](#)
- [A1120 - Column, Service, Prefab, Surgical, Ceiling Mounted.rfa](#)
- [A1122 - Column, Equipment Arm, Ceiling Mounted, Surgical.rfa](#)



- Go get the Revit Family Objects Here:  
[http://onuma.com/transfer/1691\\_Revit2014/](http://onuma.com/transfer/1691_Revit2014/)
- VA and DoD DHA share approximately 2,100 room content objects in MILSTD 1691. These objects are being converted into BIM Revit Families as part of the work to update a department.
- Your task is to take the Revit Families as is and build missing ones using the described method that are needed for the BIM Room Templates for the department that your firm is updating.

## 4- Revit BIM Templates Matching SEPS VA Room Codes

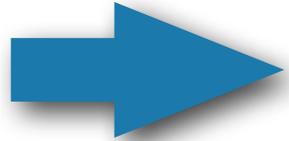
- [Parent Directory](#)
- [BRIT1.rvt](#)
- [BRUN1.rvt](#)
- [CLR01.rvt](#)
- [CMP02.rvt](#)
- [CRA01.rvt](#)
- [CRA02.rvt](#)
- [DAYR1.rvt](#)
- [DNTG1.rvt](#)
- [DR001.rvt](#)
- [DUTY1.rvt](#)
- [EXOS1.rvt](#)
- [EXRG3.rvt](#)
- [LBVP1.rvt](#)
- [MEDP1.rvt](#)



- VA will provide access to the current Revit BIM Templates that Match SEPS VA Room Codes: <http://onuma.com/transfer/SEPS/> **NOTE: This is a temporary links until the VA TiL gets updated**
- VA and DoD are in the process of modeling the SEPS spaces into BIM room templates.
- The intent is during a departmental criteria update more of the BIM Templates will be created and added to this repository.
- Your task is to use the existing Revit BIM Templates as guides to build new BIM Templates of rooms identified for Guide Plates in the department you are assigned to update if they currently don't exist or need to be modified.



# Go to SEPS



**1.** If exact match to your department function and room contents is found in SEPS: use the room

**A.** Go to <http://onuma.com/transfer/SEPS/> to see if the room exists as a BIM Room Template

**NOTE:** This is a temporary links until the VA TiL gets updated

- If content and layout matches: use BIM Room Template as is



**2.** If exact match is not found in SEPS:

**A.** Define room layout and new content, and edit existing BIM Room Template as required.

**NOTE:** This is a temporary links until the VA TiL gets updated

**B.** Go to <http://onuma.com/transfer/SEPS/> to find if similar room exists.

- Note differences in Excel file, and edit the existing BIM Room Template as required.
- If no similar room exists, enter new room criteria in Excel file and create new BIM Room Template.



# 7- Excel File Data Submittals

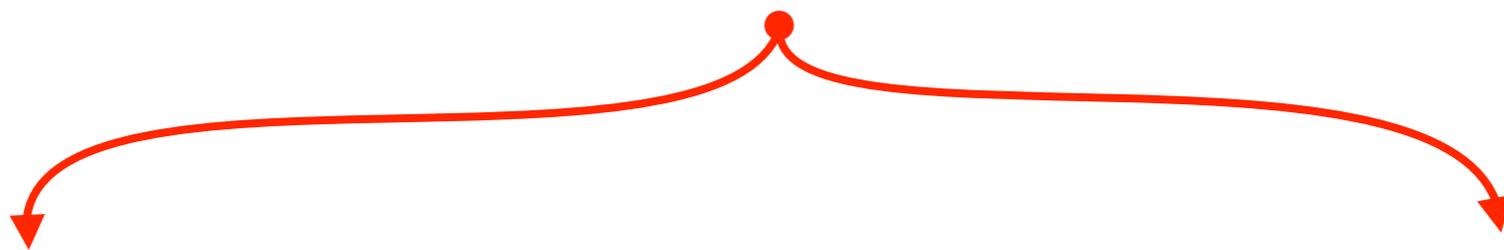
Each submittal to VA will include two Excel files:

One for update SEPS Room Contents (medical equipment and furnishings)

Another for updated SEPS Rooms (room and area)

Both shall notate changes to the data and BIM in the status column and Revit Family column.

Submittal



Content (Medical Equipment and Furnishings)

Rooms

A	B	C	D	E	F
2 - RECEPTION AREA				STATUS	New Revit Family
1 - WRC01 - Waiting					
JSN	Content Item	Agency	Qty		
A5076	Dispenser, Hand Sanitizer, Free Standing	VA	1	Added	
A5210	Bracket, Television, Wall Mounted, w/Adjust Arm	VA	1	Removed	
A5220	Bracket, Television, Wall Backing	VA	1		
A6046	Artwork, Decorative, With Frame	VA	1	Qty change	
F0206	Chair, Side, Bariatric, With Arms	VA	1		
F0305	Chair, Waiting Room, Single	VA	3		
F2300	Rack, Magazine, Wall Mounted	VA	1		F2300 - Rack, Magazine, Wall Mounted.rfa
F2310	Rack, Pamphlet, Wall Mounted	VA	1		
F3200	Clock, Battery, 12" Diameter	VA	1		
M0515	Television, Plasma	VA	1		
2 - PLAY1 - Playroom					
JSN	Content Item	Agency	Qty		
A1010	Telecommunication Outlet	VA	1		
A5210	Bracket, Television, Wall Mounted, w/Adjust Arm	VA	1		
A5220	Bracket, Television, Wall Backing	VA	1		
A6046	Artwork, Decorative, With Frame	VA	2		
F0215	Chair, Child's	VA	4		
F0305	Chair, Waiting Room, Single	VA	2		
F0760	Table, Child's	VA	1		
F2000	Basket, Wastepaper, Round, Metal	VA	1		
F2045	Furniture, Playroom, Assorted	VA	1		
F3200	Clock, Battery, 12" Diameter	VA	1		
M0515	Television, Plasma	VA	1		
3 - RECP1 - Reception					
JSN	Content Item	Agency	Qty		
A1010	Telecommunication Outlet	VA	2		
A1015	Telephone, Desk, Multiple Line	VA	2		
A6105	Counter, Reception Control, Built-In	VA	1		
F0275	Chair, Swivel, High Back	VA	1		

A	E	I	J	K	O	P	BW	BX
Criteria Dept Name	Criteria FA Name	Room Code	Room Type Name	Criteria Room Name	Default Area	Default Staff	Status	RTF & BIM Template
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	LOB01	LOBBY, SEATING AREA	Lobby	200	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	RECP1	RECEPTION	Reception	125	0	Area Change	Yes
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	TLT01	TOILET	Toilet, Visitor	60	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	BX001	EXCHANGE, VENDING (EQUIPPED BY OTHERS)	Vending Area	20	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	WRC01	WAITING	Sub Waiting	120	0	Deleted	
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	BRPT1	Bedroom, PRC, 1 Bed	Patient Room, One Bed	175	0	Added	Yes
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	TLT52	TOILET/SHOWER, INPATIENT	Bathroom, Patient	60	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	TLT52	TOILET/SHOWER, INPATIENT	Bathroom, Patient, Shower Litter	60	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	BRPT2	Bedroom, PRC, Isolation, 1 Bed	Isolation Patient Room, One-Bed	0	0		Yes
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	TLT52	TOILET/SHOWER, INPATIENT	Isolation Bathroom, Patient	60	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	BRAR1	ANTEROOM, ISOLATION, NEGATIVE PRESSURE	Isolation, Anteroom	120	0		Yes
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	FSCD1	FOOD SERVICE, CAFETERIA DINING ROOM	Dining Room, Congregate	18	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	DAYR1	DAYROOM	Living Room, Family Support	250	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	CRA02	CONFERENCE ROOM, MEDIUM	Multipurpose Room, Family Support	350	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	DAYR1	DAYROOM	Day Room	250	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	CMP01	COMPUTER ROOM	Recreational Computer Activities Room	110	0		

Status

Family

Track Changes



# 8- Content Tracking Excel File

	A	B	C	D	E	F
1		2 - RECEPTION AREA			STATUS	New Revit Family
2						
3		1 - WRC01 - Waiting				
4	JSN	Content Item	Agency	Qty		
5	A5076	Dispenser, Hand Sanitizer, Free Standing	VA	1	Added	
6	A5210	Bracket, Television, Wall Mounted, w/Adjust Arm		1	Removed	
7	A5220	Bracket, Television, Wall Backing	VA	1		
8	A6046	Artwork, Decorative, With Frame	VA	1	Qty change	
9	F0206	Chair, Side, Bariatric, With Arms	VA	1		
10	F0305	Chair, Waiting Room, Single	VA	3		
11	F2300	Rack, Magazine, Wall Mounted	VA	1		F2300 - Rack, Magazine, Wall Mounted.r
12	F2310	Rack, Pamphlet, Wall Mounted	VA	1		
13	F3200	Clock, Battery, 12" Diameter	VA	1		
14	M0515	Television, Plasma	VA	1		
15						
16		2 - PLAY1 - Playroom				
17	JSN	Content Item	Agency	Qty		
18	A1010	Telecommunication Outlet	VA	1		
19	A5210	Bracket, Television, Wall Mounted, w/Adjust Arm	VA	1		
20	A5220	Bracket, Television, Wall Backing	VA	1		
21	A6046	Artwork, Decorative, With Frame	VA			
22	F0215	Chair, Child's	VA			
23	F0305	Chair, Waiting Room, Single	VA			
24	F0760	Table, Child's	VA			
25	F2000	Basket, Wastepaper, Round, Metal	VA			
26	F2045	Furniture, Playroom, Assorted	VA			
27	F3200	Clock, Battery, 12" Diameter	VA	1		
28	M0515	Television, Plasma	VA	1		
29						
30		3 - RECP1 - Reception				
31	JSN	Content Item	Agency	Qty		
32	A1010	Telecommunication Outlet	VA	2		
33	A1015	Telephone, Desk, Multiple Line	VA	2		
34	A6105	Counter, Reception Control, Built-In	VA	1		
35	F0275	Chair, Swivel, High Back	VA	1		

If an object is added the JSN Number should be noted, along with the object name.

If an object is removed from a room, it should be marked as "Removed" in the Status Column

Added objects should be noted with "Added" in the Status Column.

Quantity changes in objects should be marked in the Status Column.

If a new Revit Family Object is Created the name should be placed in this column.

**ANY** addition to the Status column like the examples here trigger the need for a new Room Code to be reviewed with VA.

**Add These Columns E+F to the SEPS Content Tracking Excel File**



# 9- Room Tracking Excel File

**Add "Status and Guide Plates & BIM" Columns to the Excel File**

A	E	I	J	K	O	P	BW	BX
Criteria Dept Name	Criteria FA Name	Room Code	Room Type Name	Criteria Room Name	Default Area	Default Staff	Status	RTF & BIM Template
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	LOB01	LOBBY, SEATING AREA		200	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	RECP1	RECEPTION		<b>125</b>	0	<b>Area Change</b>	<b>Yes</b>
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	TLTU1	TOILET	Toilet, Visitor	60	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT / OUTPATIENT UNITS: RECEPTION AREAS	BX001	EXCHANGE, VENDING (EQUIPPED BY OTHERS)	Vending Area	20	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	WRC01	WAITING	Sub Waiting	120	0	<b>Deleted</b>	
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	BRPT1	Bedroom, PRC, 1 Bed	Patient Room, One Bed	175	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	TLTS2	TOILET/SHOWER, INPATIENT	Bathroom, Patient	60	0	<b>Added</b>	<b>Yes</b>
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	TLTS2	TOILET/SHOWER, INPATIENT	Bathroom, Patient, Shower Litter	60	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	BRPT2	Bedroom, PRC, Isolation, 1 Bed	Isolation Patient Room, One-Bed				<b>Yes</b>
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	TLTS2	TOILET/SHOWER, INPATIENT	Isolation Bathroom, Patient				
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	BRAR1	ANTEROOM, ISOLATION, NEGATIVE PRESSURE	Isolation, Anteroom	120	0		<b>Yes</b>
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	FSCD1	FOOD SERVICE, CAFETERIA DINING ROOM	Dining Room, Congregate	18	0		
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	DAYR1	DAYROOM	Living Room, Family Support	250			
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	CRA02	CONFERENCE ROOM, MEDIUM	Multipurpose Room, Family Support	350			
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	DAYR1	DAYROOM	Day Room	250			
POLYTRAUMA REHABILITATION CENTER (111)	INPATIENT UNIT: PATIENT AREAS	CMP01	COMPUTER ROOM	Recreational Computer Activities Room	110	0		

Default Area Changes must be noted.

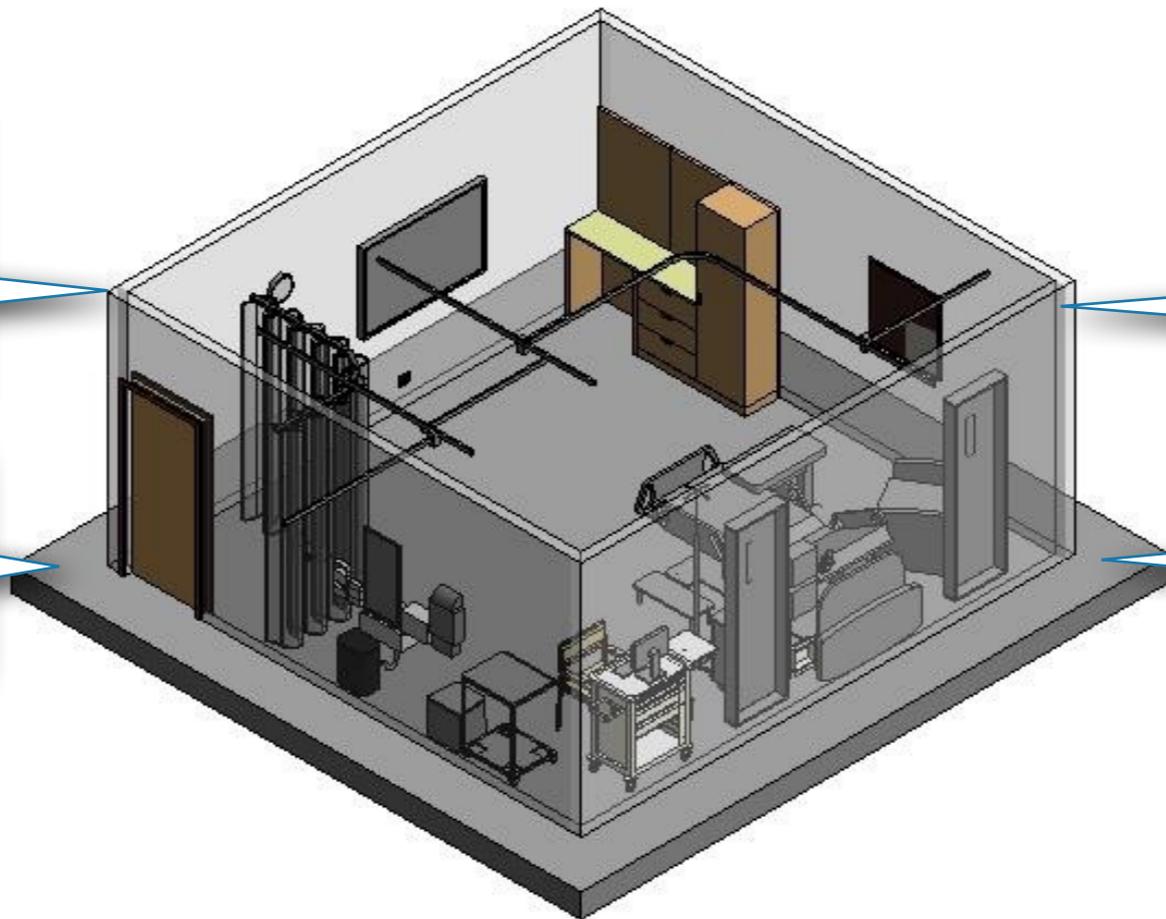
Any changes must be marked in the Status Column as "Area Change, Deleted, or Added"

Rooms that have been identified as needing Guide Plates and BIM Templates must be noted in this column.

# 10- Submit One BIM per Room to VA

Room is Rectangular , with are matching SEPS

One BIM Per Room



Room Number = Room Code

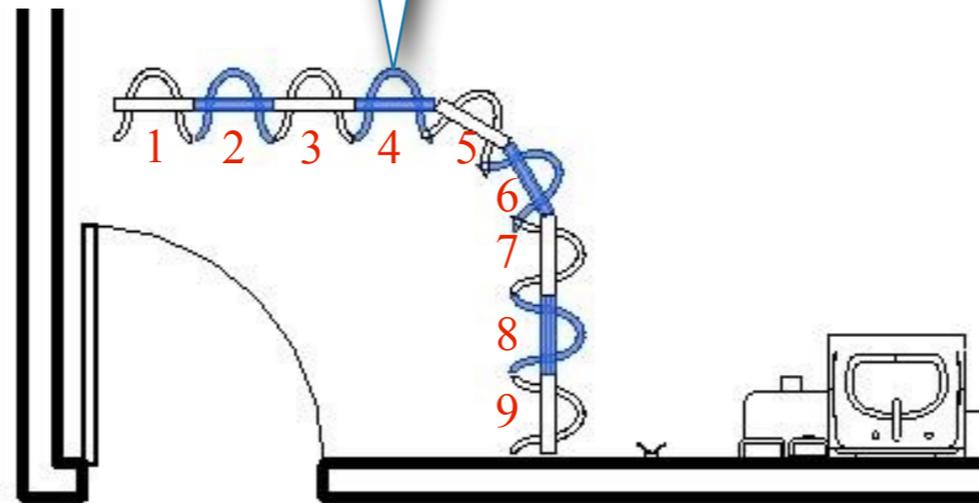
One Level  
One Slab  
One Room

- For all the new room/spaces to be created in PG 18-9 and for those that CFM deems necessary, a single BIM shall be submitted back to VA as a BIM Template based on the sample BIM template and instructions.
- All objects except doors and windows Revit families are from the 1691 library or newly created families per “Part 2: Technical Guidelines for adding new Revit Families”
- A sample file matching the above criteria can be downloaded from here:  
<http://onuma.com/transfer/BRMS1.rvt>

**NOTE:** This is a temporary links until the VA TiL gets updated

# 11 - Objects as Segments

Each segment is a separate object to match SEPS.

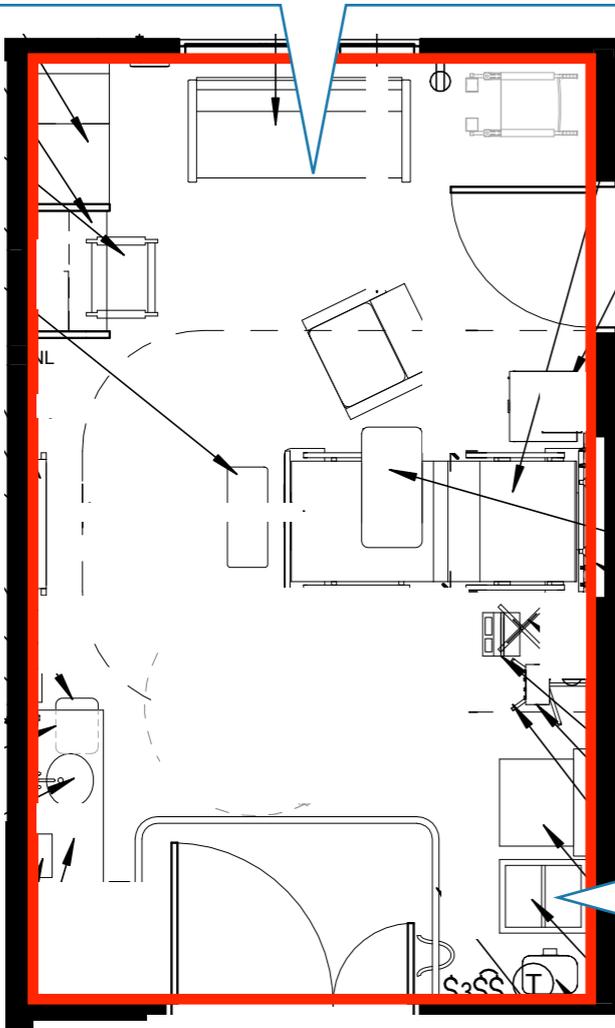


- Selected objects in MLSTD 1691 that are defined in linear feet (curtains, countertops, etc.) shall be used as 1 foot increments in the necessary number to match the SEPS output and the PG 18-5 specification.



# 12- BIM Template

BIM Templates must be Orthogonal Shaped Rooms. They are a generic representation and a one to one match of what will be in SEPS.



BIM Template to be delivered to VA as part of the Department Update

A	B	C	D	E	F
<b>2 - RECEPTION AREA</b>					
<b>1 - WRC01 - Waiting</b>					
JSN	Content Item	Agency	Qty	Status	New Revit Family
A5076	Dispenser, Hand Sanitizer, Free Standing	VA	1	Added	
A5210	Bracket, Television, Wall Mounted, w/Adjust Arm	VA	1	Removed	
A5220	Bracket, Television, Wall Backing	VA	1		
A6046	Artwork, Decorative, With Frame	VA	1	Qty change	
F0206	Chair, Side, Bariatric, With Arms	VA	1		
F0305	Chair, Waiting Room, Single	VA	3		
F2300	Rack, Magazine, Wall Mounted	VA	1		F2300 - Rack, Magazine, Wall Mounted.rfa
F2310	Rack, Pamphlet, Wall Mounted	VA	1		
F3200	Clock, Battery, 12" Diameter	VA	1		
M0515	Television, Plasma	VA	1		
<b>2 - PLAY1 - Playroom</b>					
JSN	Content Item	Agency	Qty		
A1010	Telecommunication Outlet	VA	1		
A5210	Bracket, Television, Wall Mounted, w/Adjust Arm	VA	1		
A5220	Bracket, Television, Wall Backing	VA	1		
A6046	Artwork, Decorative, With Frame	VA	2		
F0215	Chair, Child's	VA	4		
F0305	Chair, Waiting Room, Single	VA	2		
F0760	Table, Child's	VA	1		
F2000	Basket, Wastepaper, Round, Metal	VA	1		
F2045	Furniture, Playroom, Assorted	VA	1		
F3200	Clock, Battery, 12" Diameter	VA	1		
M0515	Television, Plasma	VA	1		
<b>3 - RECP1 - Reception</b>					
JSN	Content Item	Agency	Qty		
A1010	Telecommunication Outlet	VA	2		
A1015	Telephone, Desk, Multiple Line	VA	2		
A6105	Counter, Reception Control, Built-In	VA	1		
F0275	Chair, Swivel, High Back	VA	1		

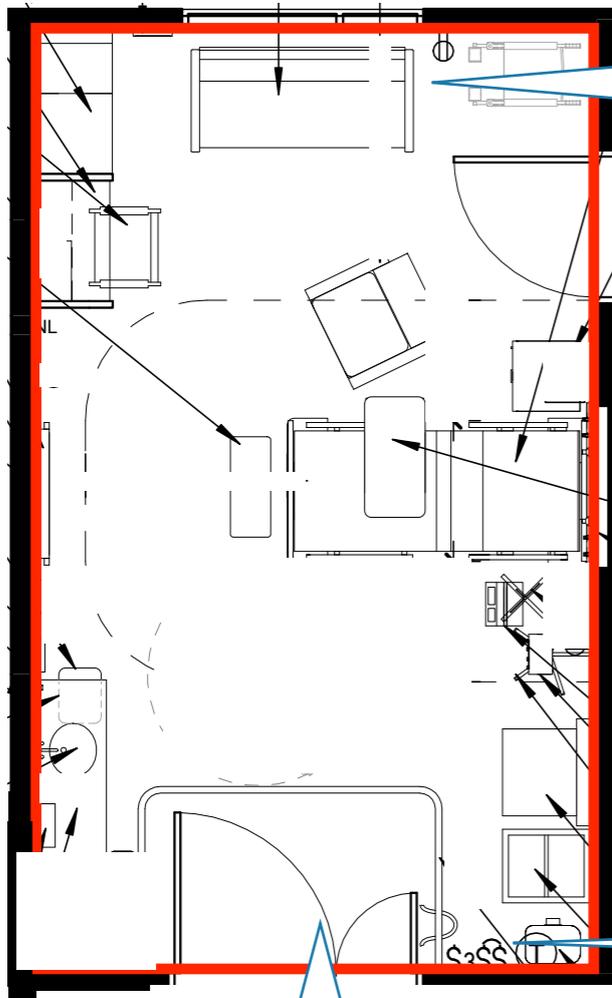
Criteria Dept Name	Criteria FA Name	Room Code	Room Type Name	Criteria Room Name	Default Area
AMMS: ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	OFC02	Office, Commander, Medium Facility	Office, Chief	240
AMMS: ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	SEC01	SECRETARY	Office, Secretary and Waiting	120
AMMS: ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	OFA01	OFFICE, ADMINISTRATIVE, PRIVATE	Office, Assistant Chief	120
AMMS: ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	OFA02	OFFICE, ADMINISTRATIVE, SHARED	Office, Assistant Chief	120
AMMS: ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	OFA01	OFFICE, ADMINISTRATIVE, PRIVATE	Office, Supervisor, Acquisition and Materiel Mgt (AMM) Service	120
AMMS: ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	OFA02	OFFICE, ADMINISTRATIVE, SHARED	Office, Supervisor, Acquisition and Materiel Mgt Service	120
AMMS: ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	OFA03	CUBICLE, ADMINISTRATIVE	Cubicle, Clerical and Technical	60
AMMS: ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	CRA01	CONFERENCE ROOM, SMALL	Bid Opening Room	240
AMMS: WAREHOUSE (291)	WAREHOUSE AREAS	VAS01	VA General and Medical Storage	Storage, General and Medical	0
AMMS: WAREHOUSE (291)	WAREHOUSE AREAS	DOCK1	LOADING DOCK	Receiving Dock	110

The matching Excel files with Status update changes must match the BIM Template

# 13- BIM Template to Guide Plates

## IMPORTANT:

Note that a BIM Template and Guide Plates are related but different. The BIM deliverable to VA is the BIM Template.



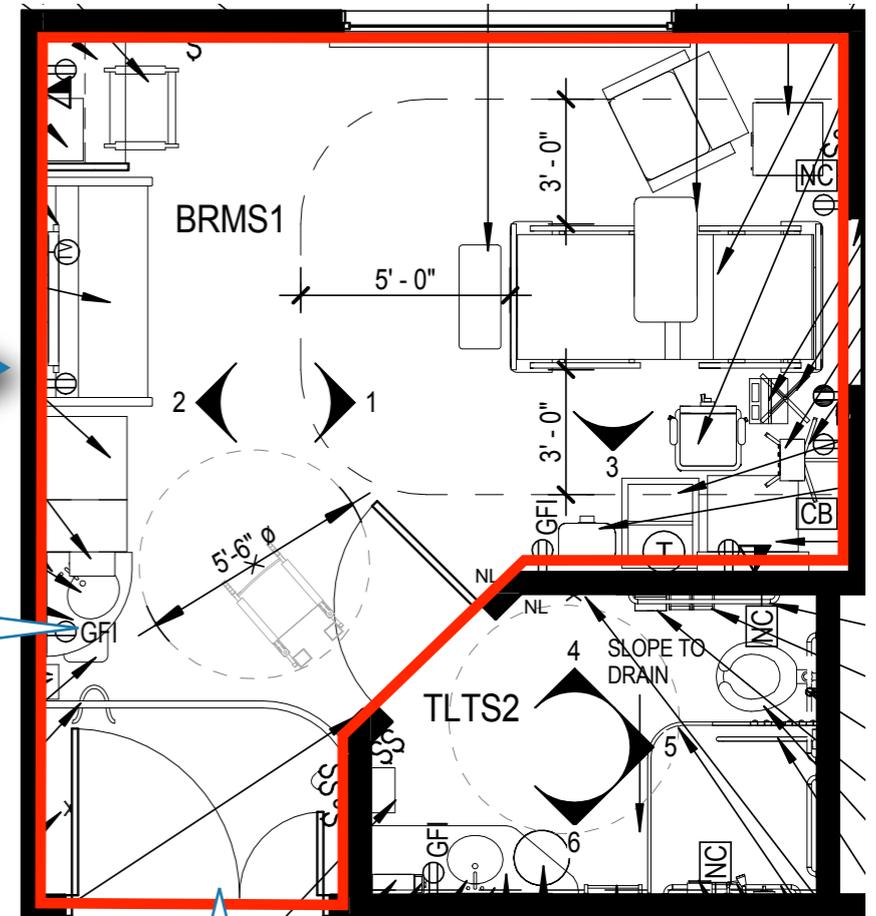
All objects in BIM Template should have a one to one match with what will be in SEPS and in the Excel Template.

BIM Template should be used as the basis for setting up the Guide Plates

Additional objects may be added in the Guide Plates for purposes of illustrating design intent. These objects will NOT be part of the BIM Template.

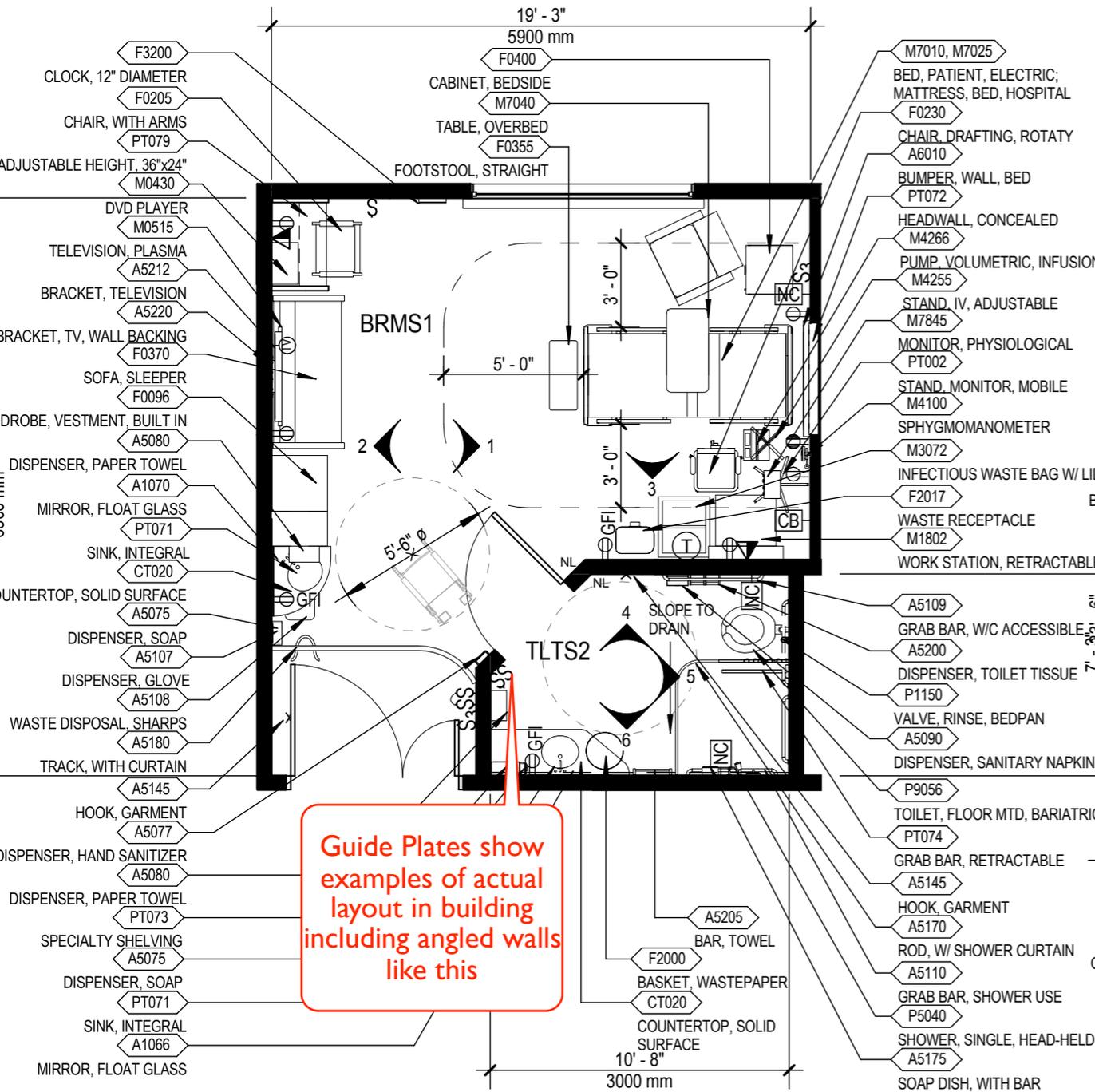
BIM Template to be delivered to VA as part of the Department Update

BIM Template must be Orthogonal Shaped Rooms. They represent a one to one match of what will be in SEPS.



Guide Plates can Have Non-Orthogonal Shaped Rooms. They represent a potential layout of a room in Design.

## Bedroom, Patient (BRMS1); Toilet/Shower, Patient (TLTS2) - Option 1

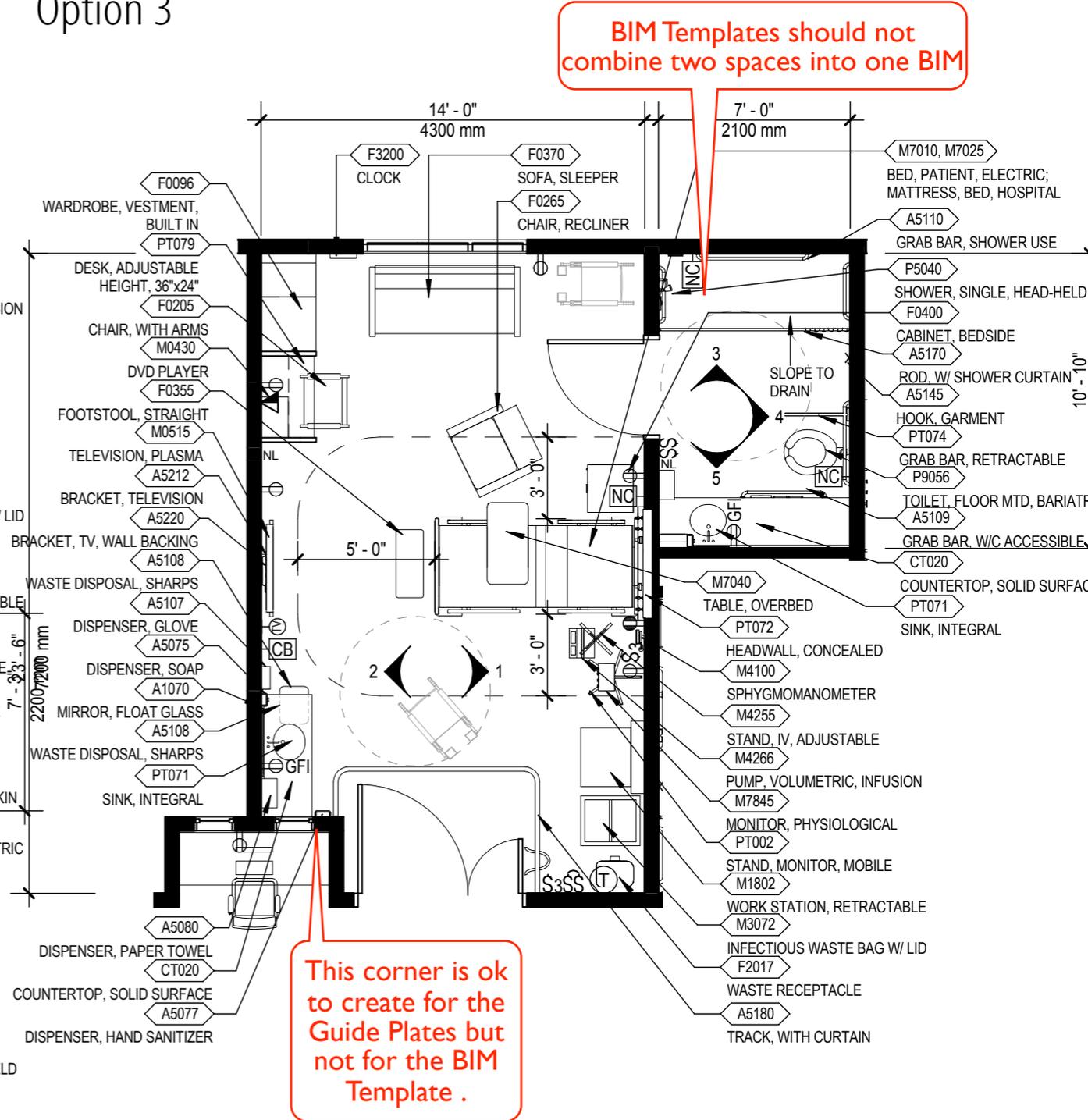


SCALE: 3/16" = 1'-0"



Polytrauma Rehabilitation Center • Inpatient Unit  
Floor/Equipment Plan (300 NSF/27.9 NSM; 75 NSF/7.0 NSM)

## Bedroom, Patient (BRMS1); Toilet/Shower, Patient (TLTS2) - Option 3



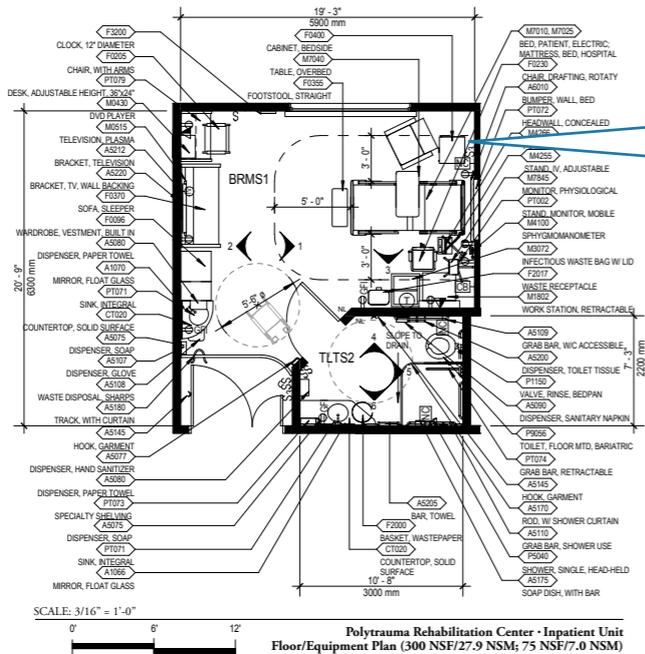
3/16" = 1'-0"



Polytrauma Rehabilitation Center • Inpatient Unit  
Floor/Equipment Plan (300 NSF/27.9 NSM; 75 NSF/7.0 NSM)

# 15- Guide Plates PDFs used for Design Guide

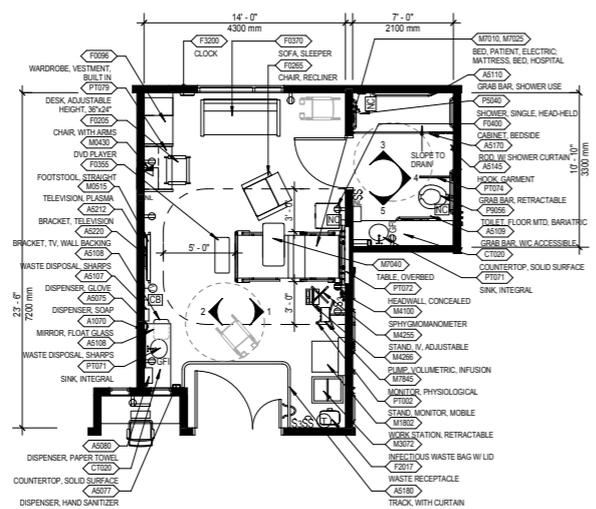
Bedroom, Patient (BRMS1); Toilet/Shower, Patient (TLTS2) - Option 1



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

4.10

Bedroom, Patient (BRMS1); Toilet/Shower, Patient (TLTS2) - Option 3



NOTE: Guide plates are graphical representations of selected room types, illustrating the integration of space, components, systems, and equipment. They provide typical configurations and general technical guidance, and are not intended to be project specific. Specific infrastructure design requirements are contained in VA Design Manuals and Space Planning Criteria located in the VA Technical Information Library.

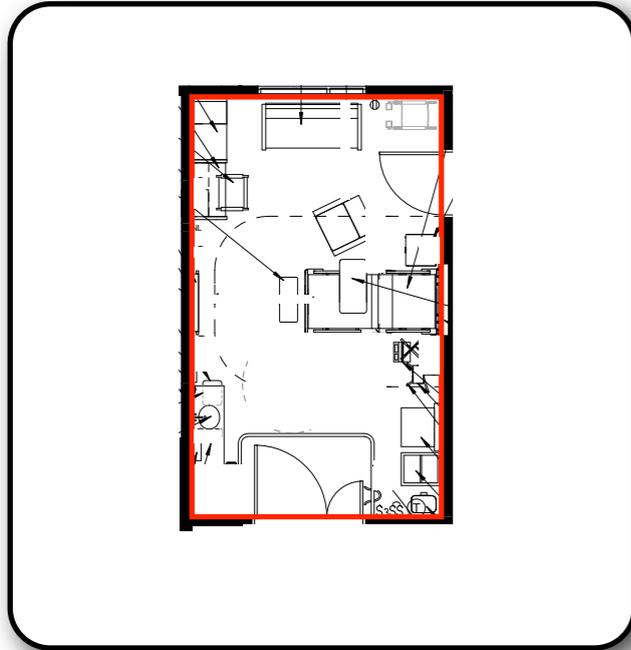
4.26

Guide Plates are used to create PDFs for the Design Guide

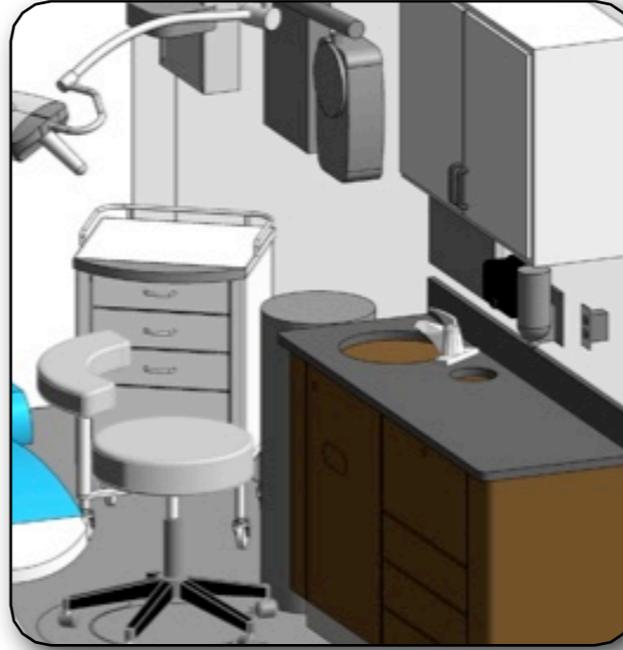


Polytrauma Rehabilitation Center Design Guide  
08. 2014

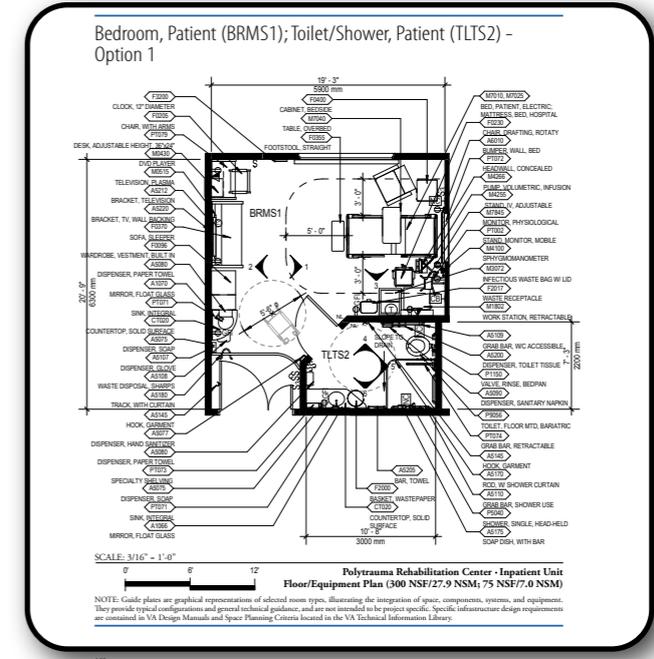
## 1A-BIM Template



## 2-NEW BIM OBJECTS



## 4A - Guide Plates



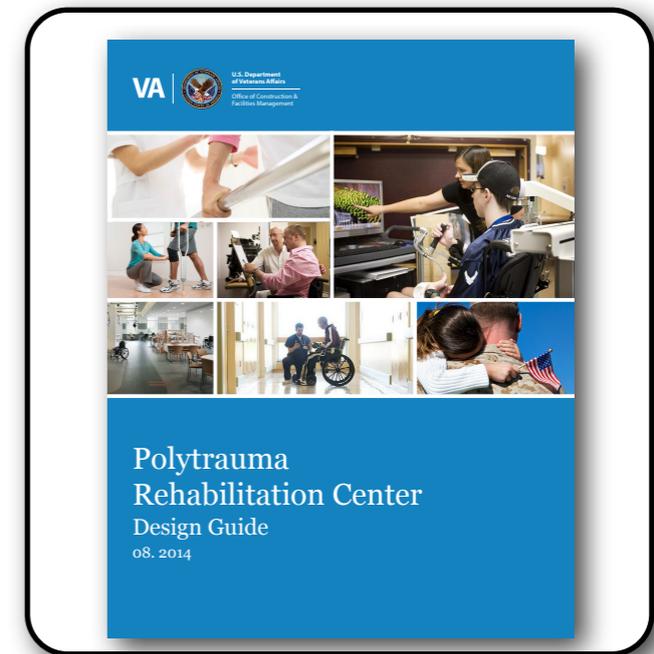
## 1B-BIM Template



## 3-Excel of BIM Template & Objects

Criteria Dept Name	Criteria EA Name	Room Code	Room Type Name	Criteria Room Name	Default Area
AMHS ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	OF022	Office, Commander, Medium Facility	Office, Chief	240
AMHS ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	SE022	SECRETARY	Office, Secretary and Reception	120
AMHS ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	OF041	OFFICE, ADMINISTRATIVE, PRIVATE	Office, Assistant Chief	120
AMHS ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	OF042	OFFICE, ADMINISTRATIVE, PRIVATE	Office, Supervisor, Acquisition and Material Mgt (SAMS) Service	120
AMHS ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	OF043	OFFICE, ADMINISTRATIVE, PRIVATE	Office, Supervisor, Acquisition and Material Mgt Service	120
AMHS ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	OF044	OFFICE, ADMINISTRATIVE, SHARED	Cubicle, Central and Technical	60
AMHS ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	OF045	CUBICLE, ADMINISTRATIVE		
AMHS ADMINISTRATION (284)	STAFF AND ADMINISTRATIVE AREAS	CM042	CONFERENCE ROOM, SMALL	Rel Cleaning Room	240
AMHS WAREHOUSE (282)	WAREHOUSE AREAS	VS001	VA General and Medical Storage	Storage, General and Medical	0
AMHS WAREHOUSE (282)	WAREHOUSE AREAS	DO001	LOADING DOCK	Receiving Dock	120

## 4B - Design Guide



BIM Templates are a one to one match of all the objects and size of space to SEPS

Object naming and numbering standards follow MILSTD 1691

Guide Plates used to layout.

# SEPS+BIM

Space and Equipment Planning System  
+  
Building Information Modeling

## Part 1

### Guidelines for Creating BIM Templates

**VA**



**U.S. Department  
of Veterans Affairs**

**Office of Construction & Facilities Management**