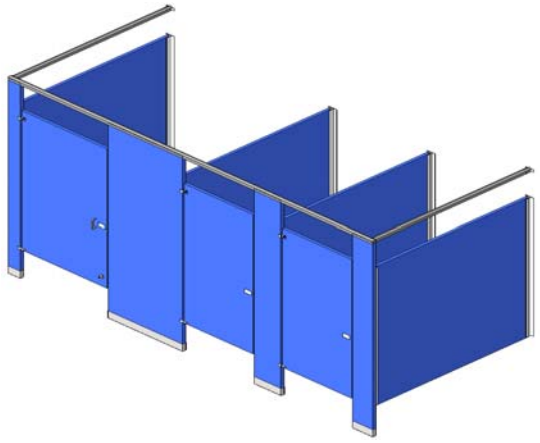
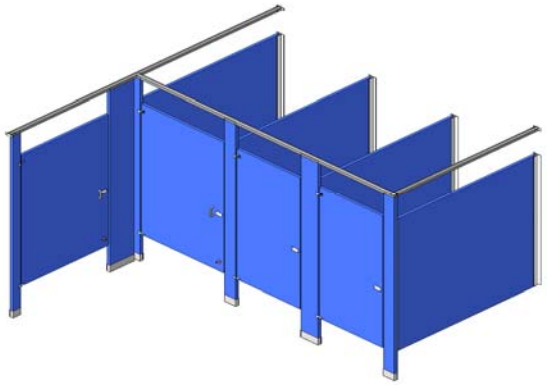
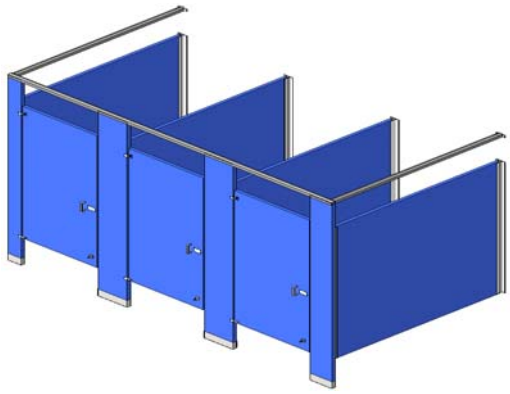
Mills Partitions Revit Families Overview



ADA and Standard Stalls Family



Alcove ADA, Optional AMB, and Standard Stalls Family



Standard Stalls Family

****The Mills partitions Revit family files are designed to accommodate general partition restroom layouts which can be used in a Building Information Model (BIM). This can be best accomplished by combining one or more families and controlling several parameters within each family model until the desired result is achieved. This document provides several common example layouts and the parameters used to create the project layout. This document should be used as reference guide only as actual layout configurations may vary from those shown below.* ***The baked enamel overhead braced partition families are shown in this document. Other partition Revit families behave similarly when adjusting parameters.******

Overview:

Bradley currently provides three different Autodesk Revit families (per material and style) to facilitate the general construction of partition layouts:

1. ADA and Standard Stalls for layouts requiring an ADA accessible stall and standard stalls.
2. Alcove ADA, Optional AMB, and Standard Stalls for layouts requiring an ADA accessible stall in an alcove configuration, an ambulatory stall, and standard stalls.
3. "n Stalls" for layouts requiring only standard stalls or layouts not requiring ADA accessible stalls.

Within each family, the following construction parameters can be controlled:
(Note: Each of the three families contain their own unique parameters. One family may not have the exact same parameters listed as another. For example, the n Stalls family will not have parameter options such as AMB stall).

Right Panel: When this is selected, a panel will be visible at the rightmost end of the partitions. When unselected, the panel disappears allowing space for a wall structure.

Left Panel: When this is selected, a panel will be visible at the leftmost end of the partitions. When unselected, the panel disappears allowing space for a wall structure.

Standard Stalls: This changes the number of standard stalls in a given layout. The number of stalls includes the ambulatory stall when the AMB Stall parameter is selected (see below).

Continuous brackets: When this is selected, full height continuous brackets appear in the family model. When not selected, standard stirrup brackets appear in the family model.

AMB Stall: When this is selected, a 36" clear ambulatory stall with an outswinging door appears adjacent to the ADA alcove compartment. When not selected, the ambulatory stall is changed to a standard stall.

Outswing Door ADA: When this is selected, the alcove ADA door will swing outward. When not selected, the door swings inward.

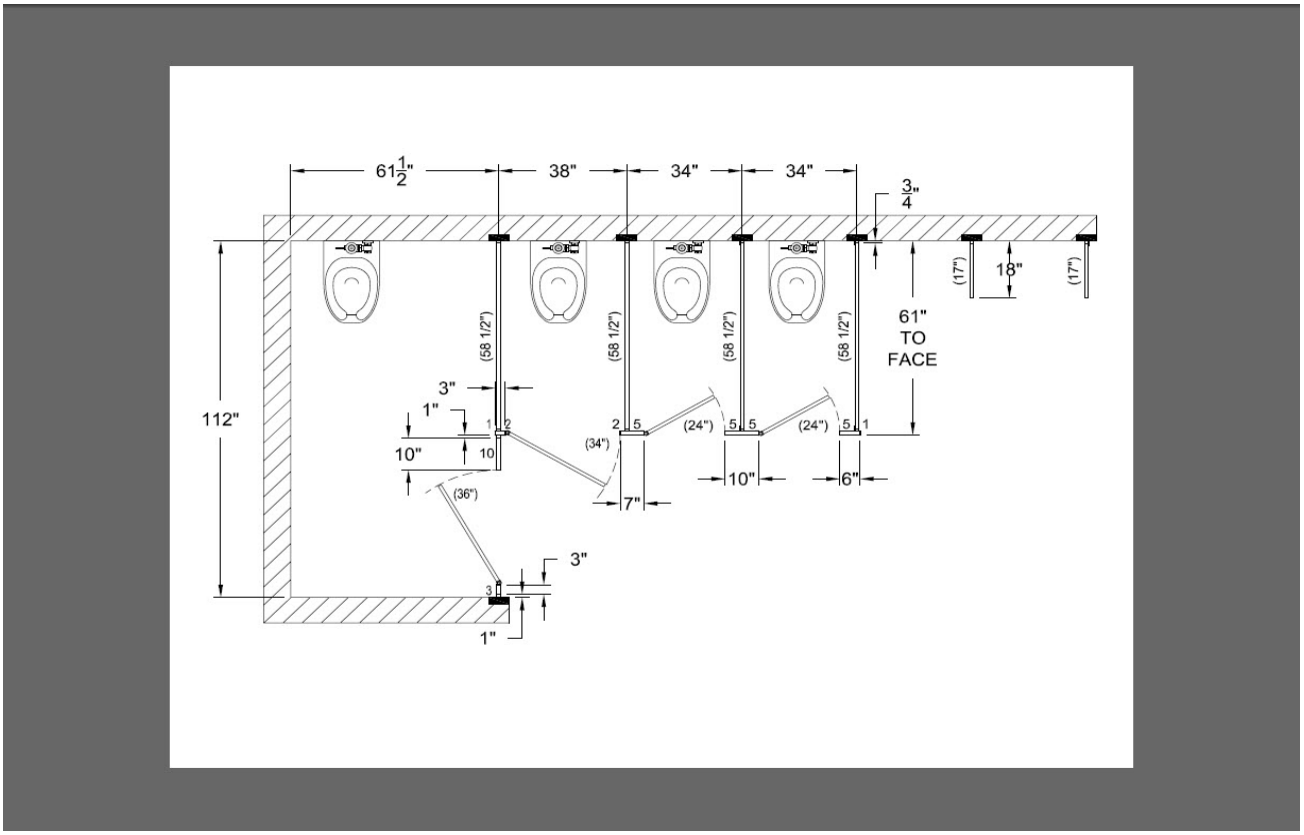
Door opening Angle: Door angles can be controlled by changing this value. All doors in a given family will update to the same angle value. Setting the value to 0 degrees makes all doors closed.

Outswing Door: When this is selected, the standard door(s) will swing outward. When not selected, the door(s) swing inward.

In addition to the construction parameters, the dimension parameters may be adjusted to facilitate sizes specific to your partition stall dimensions. Stall width, stall depths, and door width parameter values may be all is adjusted.

Examples:

Listed below are several 2-D top view layout examples and the steps/parameters used to create them.

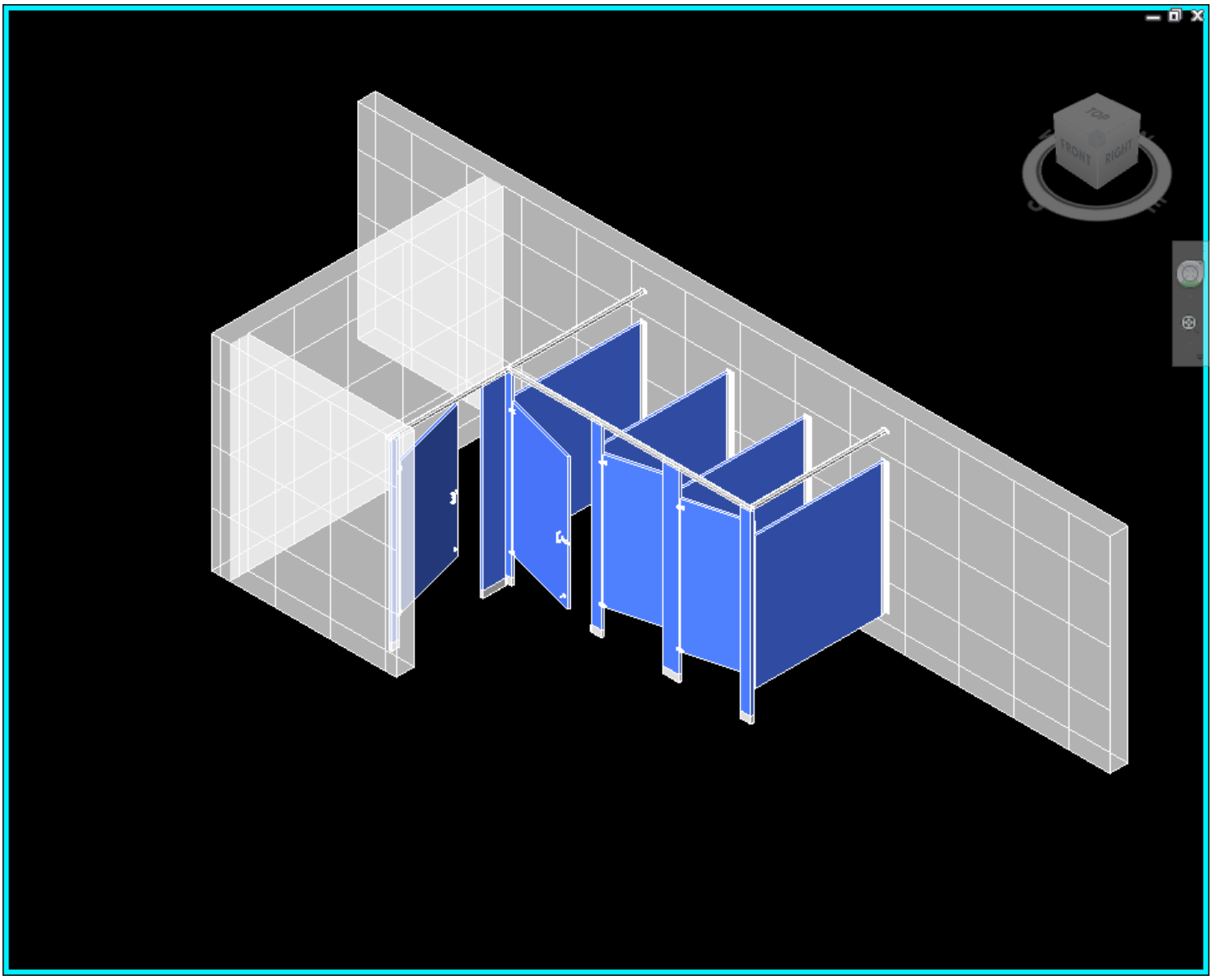


Layout Example 1: Handicap alcove, ambulatory, and two standard stalls:

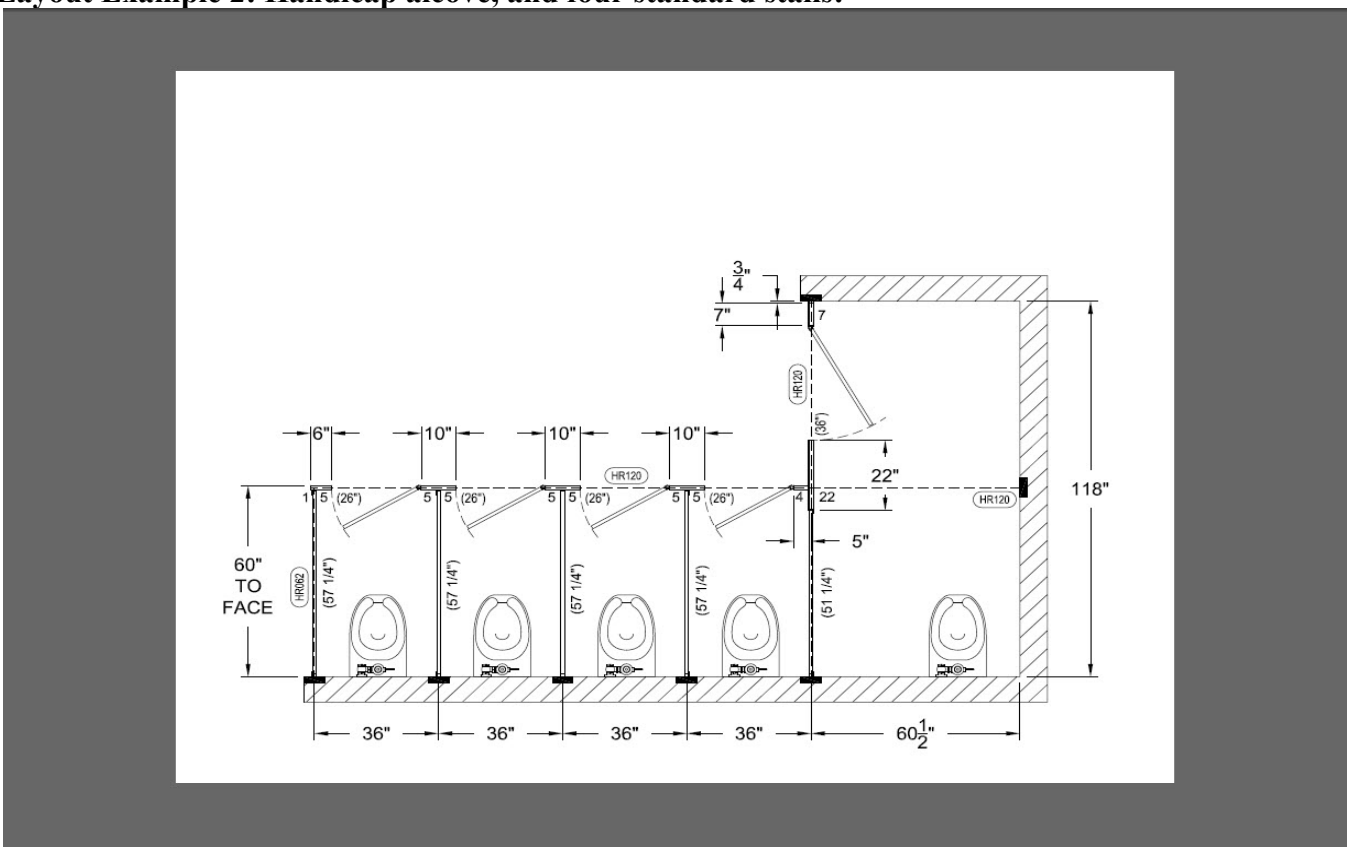
1. Establish walls of appropriate size and dimensions in your Autodesk Revit project.
2. Load/insert the Partition-Overhead_Braced-Bradley_Corp-Baked_Enamel-Series_400_Alcove_ADA_Optional_AMB_And_Standard_Stalls.rfa file.
3. Select instance properties and ensure the following are selected:

Parameter	Value
Constraints	
Level	Level 1
Host	Level : Level 1
Offset	0.000
Moves With Nearby Elements	☐
Construction	
Right Panel	☑
Standard Stalls	3
Continuous Brackets	☑
AMB Stall	☑
Graphics	
Outswing Door ADA	☐
Door Opening Angle	15.000°
Outswing Door	☐
Electrical - Loads	
Panel	
Circuit Number	
Dimensions	
Width	108.000
Stall Width ADA Alcove	61.500
Stall Depth ADA Alcove	112.000
Door Width ADA	36.000
Stall Width Standard	33.000
Stall Depth	58.750
Gap Back Wall	1.000
Door Width Standard	24.000
Door Width AMB	34.000
Depth	60.000
Stall Width AMB	37.000

Resulting 3-D view of Revit family for handicap alcove, ambulatory, and two standard stalls:



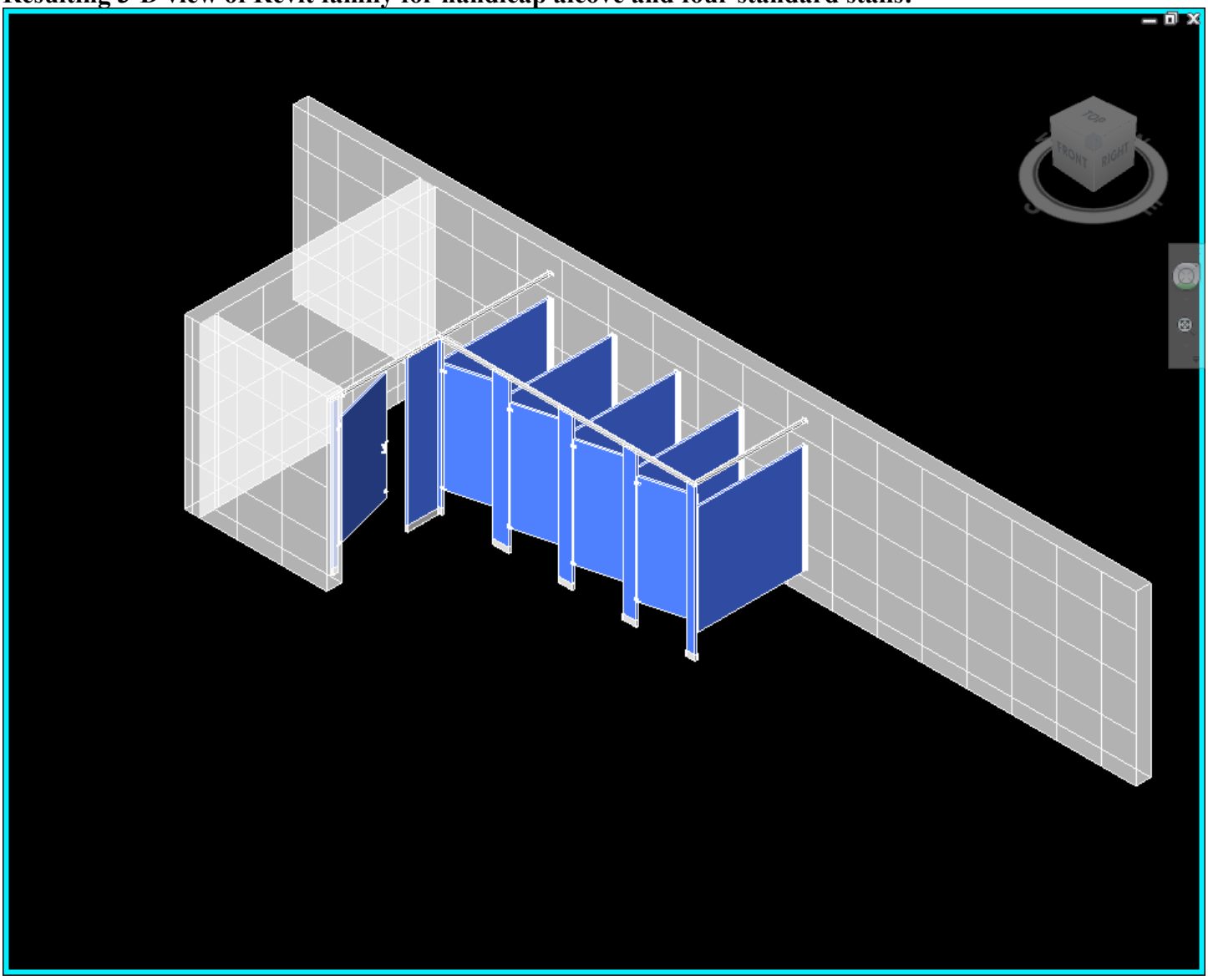
Layout Example 2: Handicap alcove, and four standard stalls:



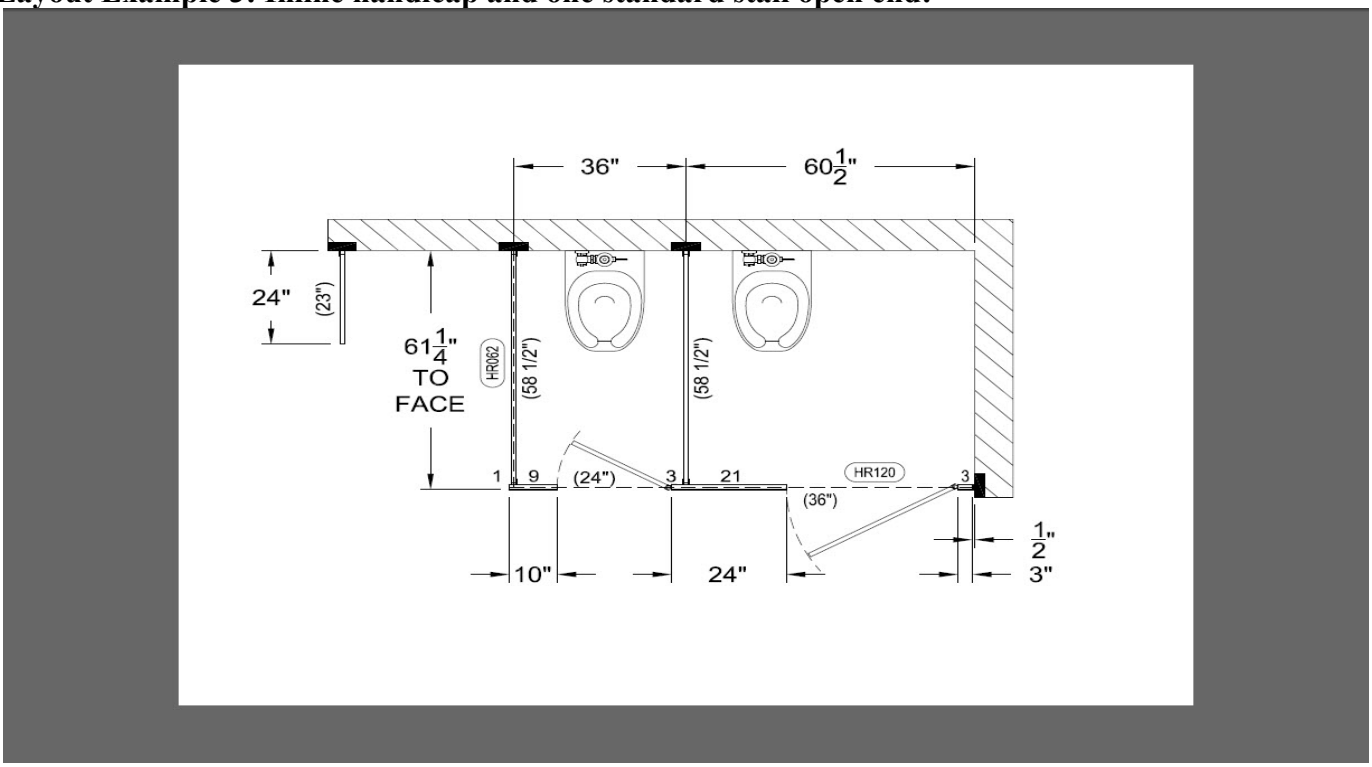
1. Establish walls of appropriate size and dimensions in your Autodesk Revit project.
2. Load/insert the Partition-Overhead_Braced-Bradley_Corp-Baked_Enamel-Series_400_Alcove_ADA_Optional_AMB_And_Standard_Stalls.rfa file.
3. Select instance properties and ensure the following are selected:

Parameter	Value
Constraints	
Level	Level 1
Host	Level : Level 1
Offset	0.000
Moves With Nearby Elements	☐
Construction	
Right Panel	☑
Standard Stalls	4
Continuous Brackets	☑
AMB Stall	☐
Graphics	
Outswing Door ADA	☐
Door Opening Angle	0.000°
Outswing Door	☐
Electrical - Loads	
Panel	
Circuit Number	
Dimensions	
Width	150.000
Stall Width ADA Alcove	60.500
Stall Depth ADA Alcove	118.000
Door Width ADA	36.000
Stall Width Standard	36.000
Stall Depth	58.750
Gap Back Wall	1.000
Door Width Standard	26.000
Door Width AMB	34.000
Depth	60.000
Stall Width AMB	37.000

Resulting 3-D view of Revit family for handicap alcove and four standard stalls:



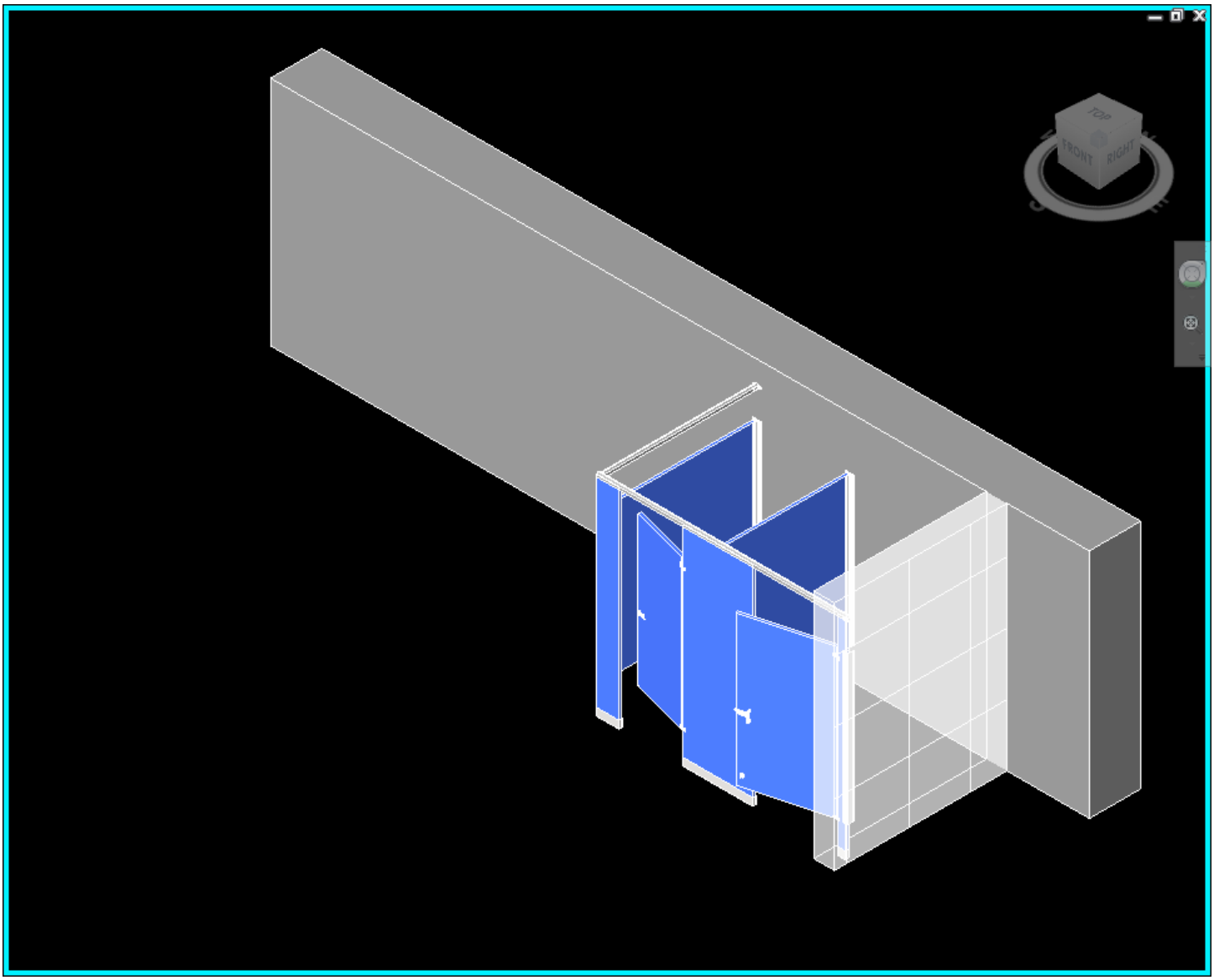
Layout Example 3: Inline handicap and one standard stall open end:



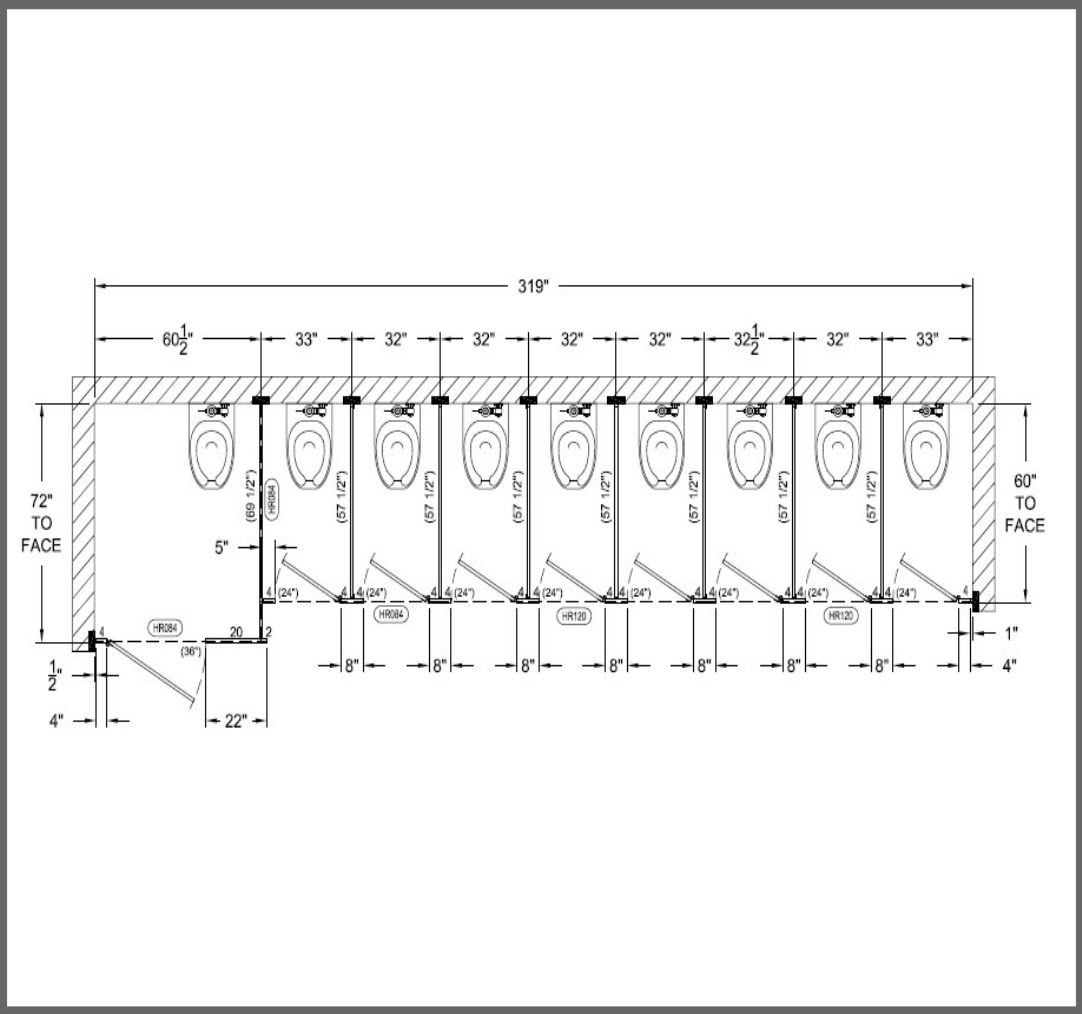
1. Establish walls of appropriate size and dimensions in your Autodesk Revit project.
2. Load/insert the Partition-Overhead_Braced-Bradley_Corp-Baked_Enamel-Series_400 ADA_ And_Standard_Stalls.rfa file.
3. Mirror the family in the project to obtain the correct orientation.
4. Select instance properties and ensure the following are selected:

Parameter	Value
Constraints	
Level	Level 1
Host	Level : Level 1
Offset	0.000
Moves With Nearby Elements	☐
Construction	
Right Panel	☑
Standard Stalls	2
Left Panel	☐
Continuous Brackets	☑
ADA Stall	☑
Graphics	
Door Opening Angle	15.000°
Outswing Door	☐
Electrical - Loads	
Panel	
Circuit Number	
Dimensions	
Width	97.500
Stall Width Standard	35.000
Stall Depth	60.000
Gap Back Wall	1.000
Door Width Standard	24.000
Door Width ADA	36.000
Depth	61.250
Stall Width ADA	60.000

Resulting 3-D view of Revit family for inline handicap, and one standard stall open end:



Layout Example 4: Offset handicap with eight standard stalls between walls:



1. Establish walls of appropriate size and dimensions in your Autodesk Revit project.
2. Load/insert the Partition-Overhead_Braced-Bradley_Corp-Baked_Enamel-Series_400 ADA_And_Standard_Stalls.rfa file. This family is used twice since there is no offset support built in for the ADA accessible stall.
3. Establish the first instance as a single ADA stall with the correct dimensions and left panel turned off (see instance properties below).
4. Establish the second instance with the ADA stall turned off, as well as the left and right panels. Place this second instance next to the previous instance.

Parameter	Value
Constraints	
Level	Level 1
Host	Level : Level 1
Offset	0.000
Moves With Nearby Elements	☐
Construction	
Right Panel	☑
Standard Stalls	1
Left Panel	☐
Continuous Brackets	☑
ADA Stall	☑
Graphics	
Door Opening Angle	15.000°
Outswing Door	☐
Electrical - Loads	
Panel	
Circuit Number	
Dimensions	
Width	61.500
Stall Width Standard	36.000
Stall Depth	70.750
Gap Back Wall	1.000
Door Width Standard	24.000
Door Width ADA	36.000
Depth	72.000
Stall Width ADA	60.000

First Instance - Single ADA Parameters

Parameter	Value
Constraints	
Level	Level 1
Host	Level : Level 1
Offset	0.000
Moves With Nearby Elements	☐
Construction	
Right Panel	☐
Standard Stalls	8
Left Panel	☐
Continuous Brackets	☑
ADA Stall	☐
Graphics	
Door Opening Angle	15.000°
Outswing Door	☐
Electrical - Loads	
Panel	
Circuit Number	
Dimensions	
Width	295.000
Stall Width Standard	36.000
Stall Depth	58.750
Gap Back Wall	1.000
Door Width Standard	24.000
Door Width ADA	32.000
Depth	60.000
Stall Width ADA	60.000

Second Instance – Non ADA Parameters

Resulting 3-D view of Revit family for offset handicap with eight standard stalls between walls: