



Smart Building Technology
and Hybrid Work Solutions

Cisco Talent and Collaboration Centers

Innovation Suite Design Guide



Introduction

Overview and Intent

This document provides guidance on creating the Innovation Suite, including space design, technology, and furnishings.

The intent of these Cisco Design Guides is to help organizations drive a repeatable and standardized approach to deploying collaboration spaces, leading to reduced implementation costs, quicker deployments, reduced solution complexity, and easier maintenance and support. Most importantly, the designs outlined in these documents will deliver an amazing experience for both in-person users of the space, as well as those participants connecting remotely.

The specifications and details in this document reflect how Cisco has approached the creation of these types of spaces in our own office environments. This should not be interpreted as a “validated design.” Every project is different, therefore, assembling a multi-disciplined team of experts is critical to ensure success. This includes, but is not limited to, IT and facilities teams, architects and space designers, acousticians and lighting designers, change-management consultants, and a Cisco-certified integrator. These individuals need to be brought in at project inception to understand end-user requirements, assess the technical environment, and evaluate the attributes of the specific space, including overall layout, physical structure, accessibility, acoustics, electrical and mechanical systems, and external factors such as noise, light and temperature.

Room Description

A perfect space for a team meeting or when colleagues want to get together to share ideas and/or brainstorm. The informal setting, the mix of seating types, and varying postures provide choice and encourage interaction. Depending on the overall programming of the floor, this space can be oriented either landscape or portrait. It can also be deployed in the open plan or as subset of a larger collaboration area. Regardless of setting or location, the Cisco Board Pro 75 is the perfect multi-functional device for the space.

Supported Collaboration Activities

Information Sharing

Brainstorming



Team Building



Decision Making

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Visualization of key Cisco elements

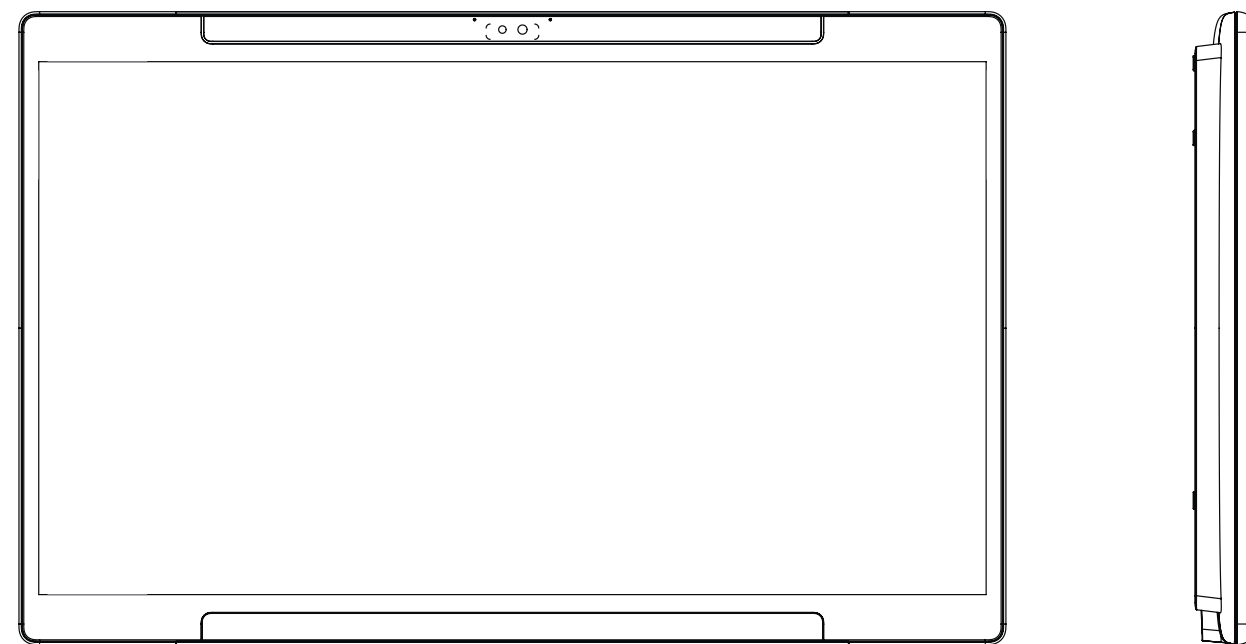
Cisco Board Pro 75 G2



Cisco Room Navigator for Wall



Cisco Ceiling Microphone Pro
(Optional)



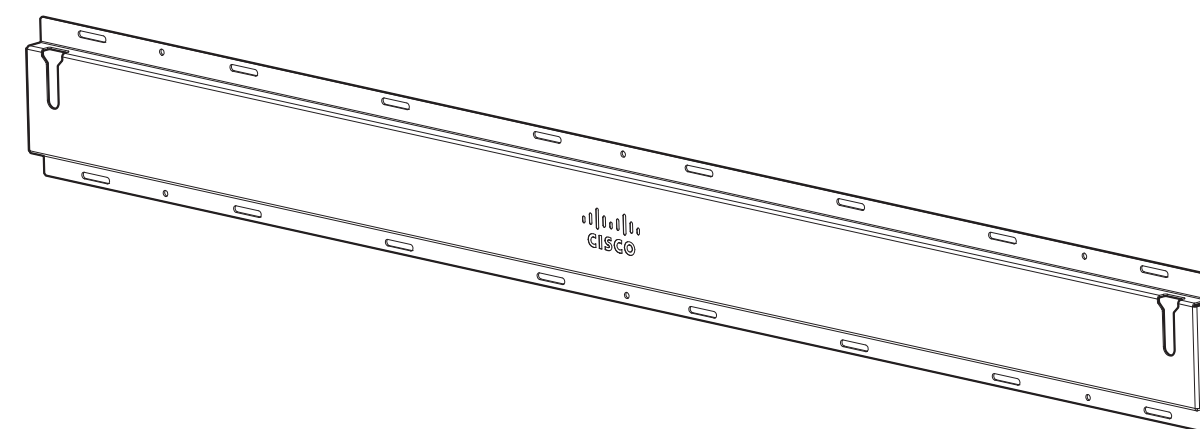
Innovation Suite

Video Device Mounting Options

There are two mounting options for the video device in the Innovation Suite, directly on the wall or leveraging an A/V compatible credenza. Several factors will go into determining which option is best.

Option 1: Wall Mount

Cisco Board Pro 75 Wall Mount Kit - Requires wall to be blocked and electrical and data to be elevated.



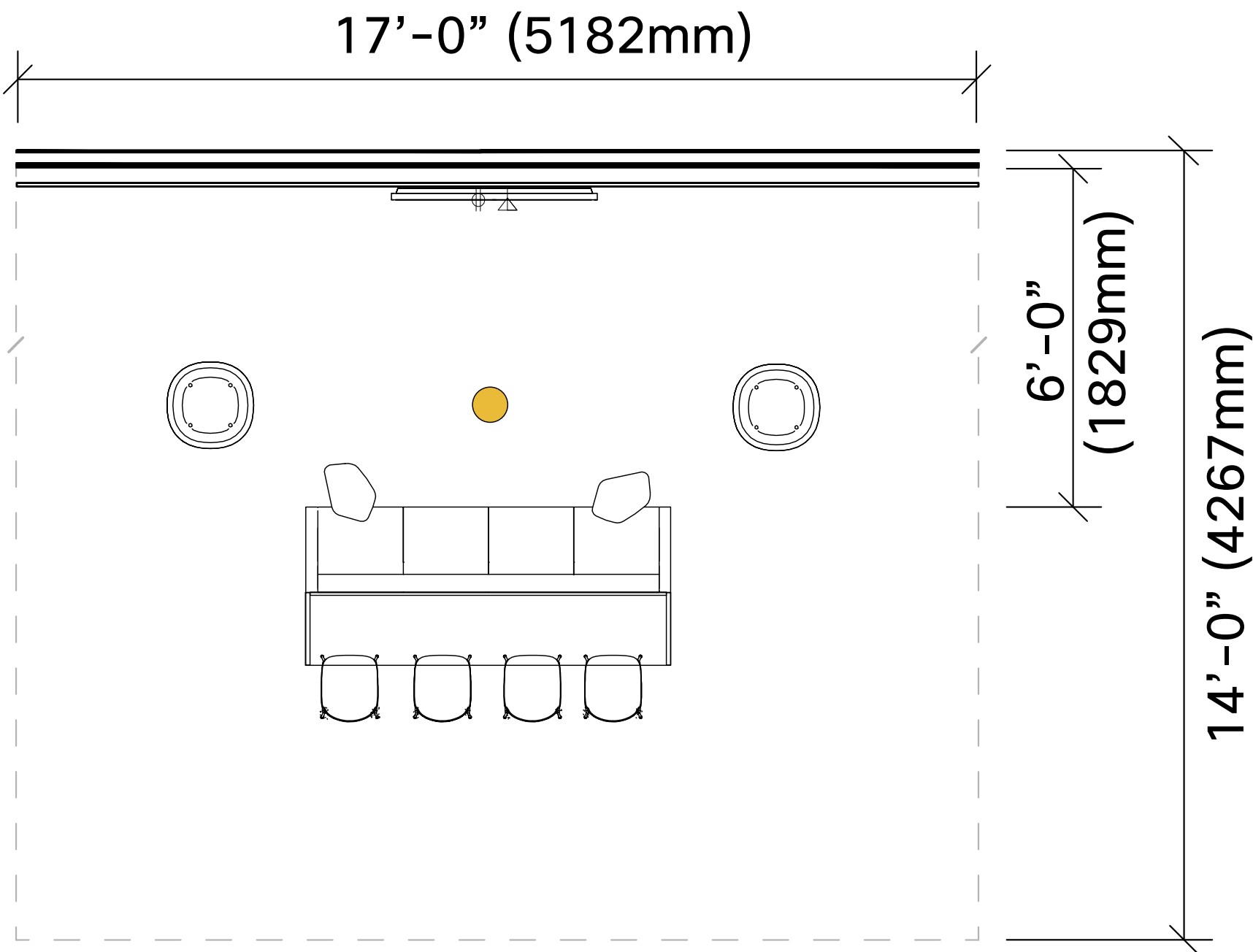
Option 2: Credenza Option

Low profile A/V compatible credenza, less than 12" (300mm) in depth, which eliminates the requirement for the wall to be blocked and electrical to be elevated. Perfect for new and retrofit installations, allowing for quick and efficient installation. Check with manufacturers for specific details.

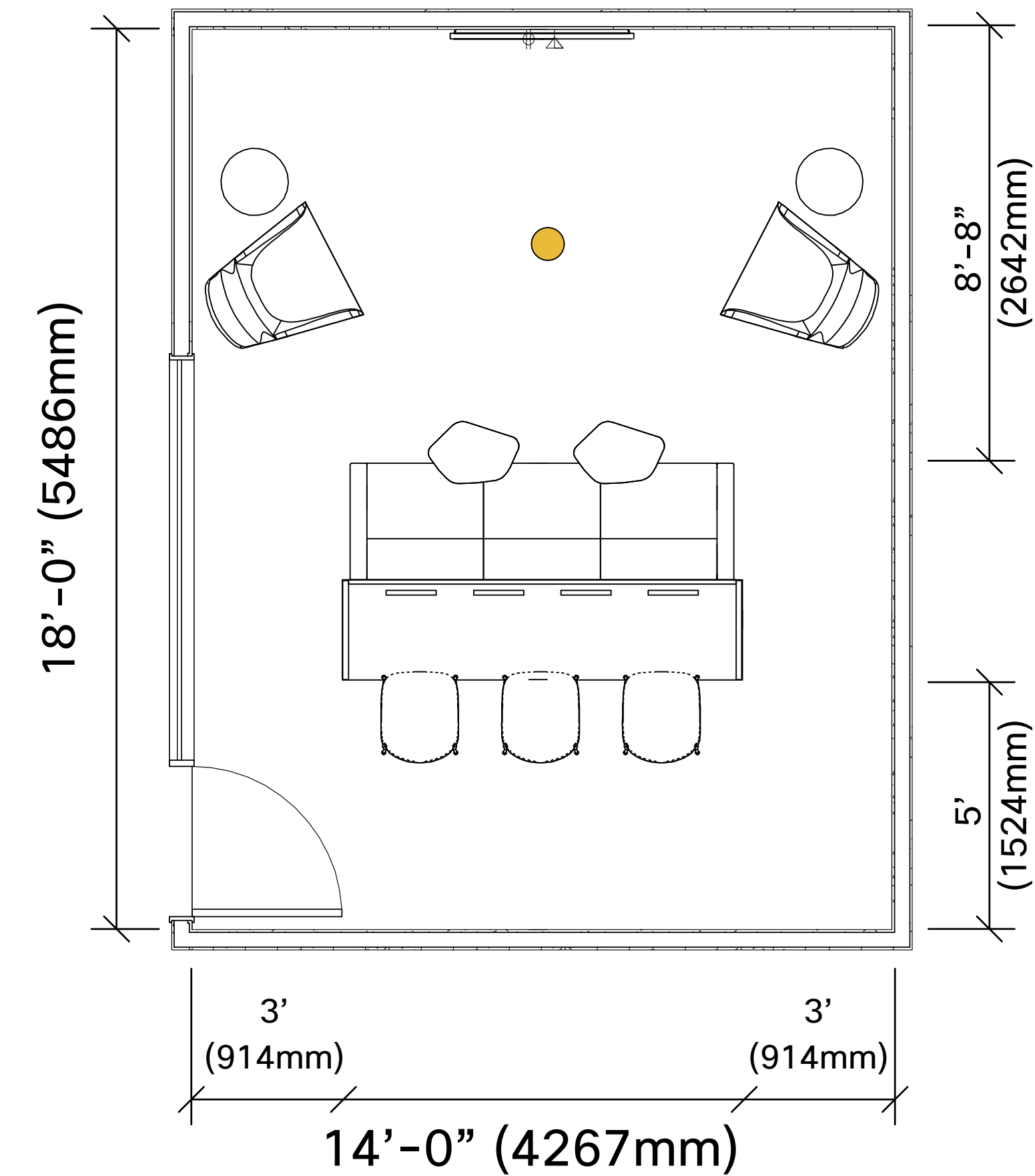


Room Layout

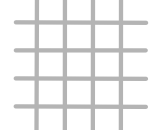












Option 1: Landscape



Option 2: Portrait

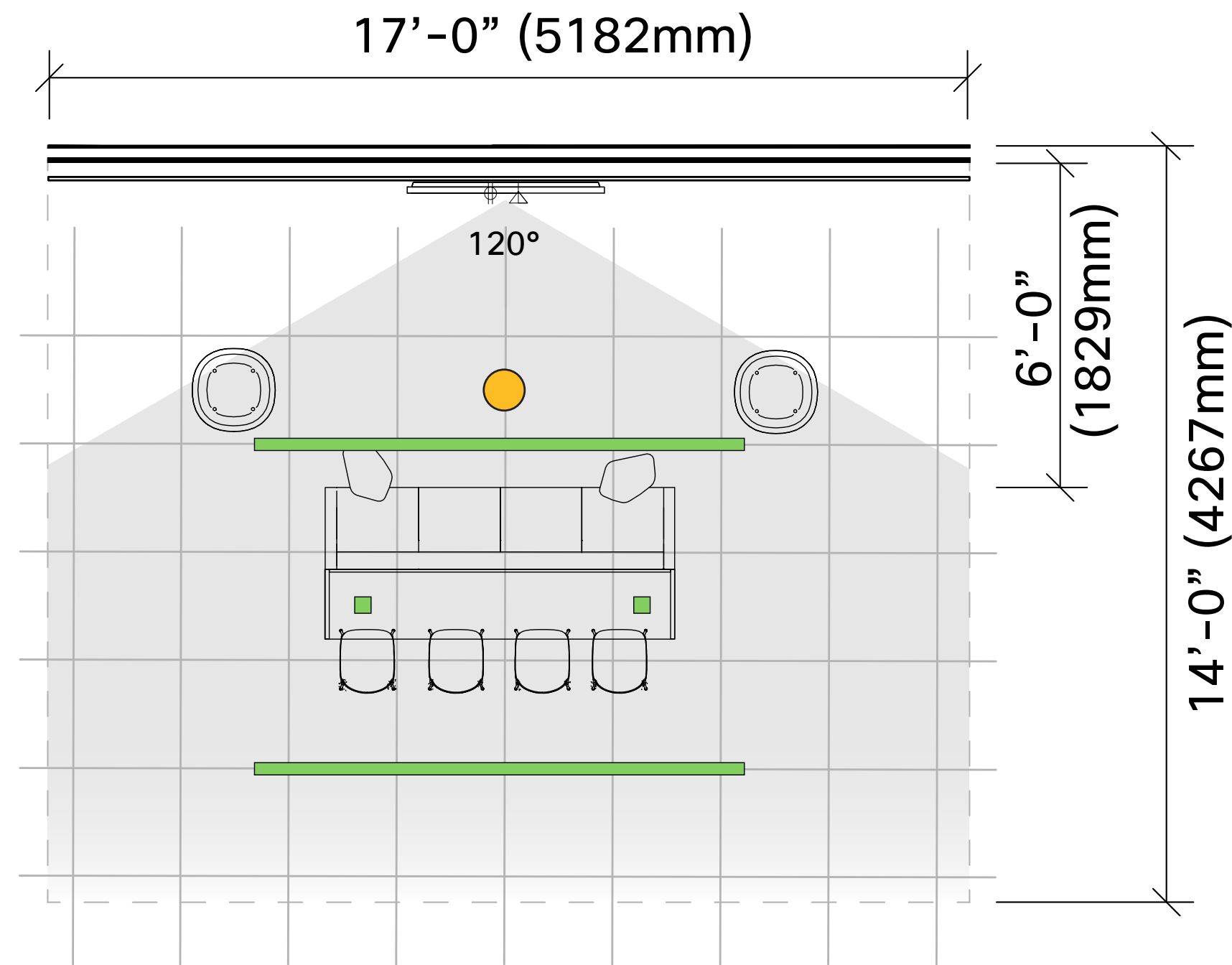


Graphics Symbols

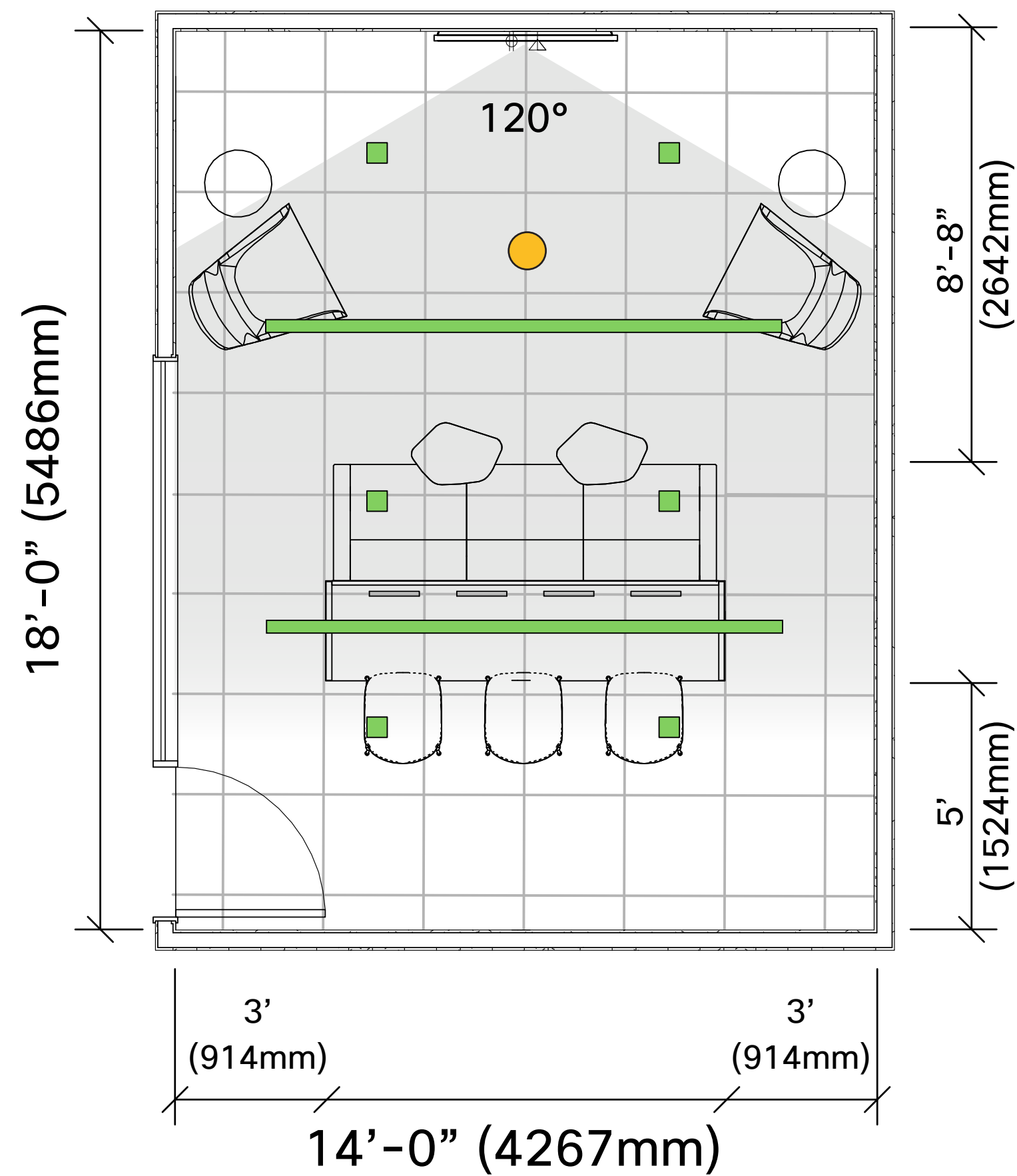
-  Acoustical Ceiling & Grid
-  HVAC Diffusers (T.B.D.)
Shown as Example Only
-  Light Fixtures
-  Acoustical Wall
- Furniture Systems Version Devices**
-  Duplex Receptacle & Grid
-  Data Receptacle
- Power and Communication**
- WALL / CEILING / FLOOR VERSION DEVICES**
-  Cisco Ceiling Microphone Pro
-  Duplex Receptacle
-  Data Receptacle
-  Light Switch
-  AV Receptacle
-  Table Version Microphone
-  Combination Power
& Voice / Data Infeed

Composite Plan

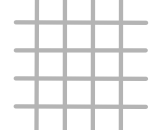












Option 1: Landscape



Option 2: Portrait

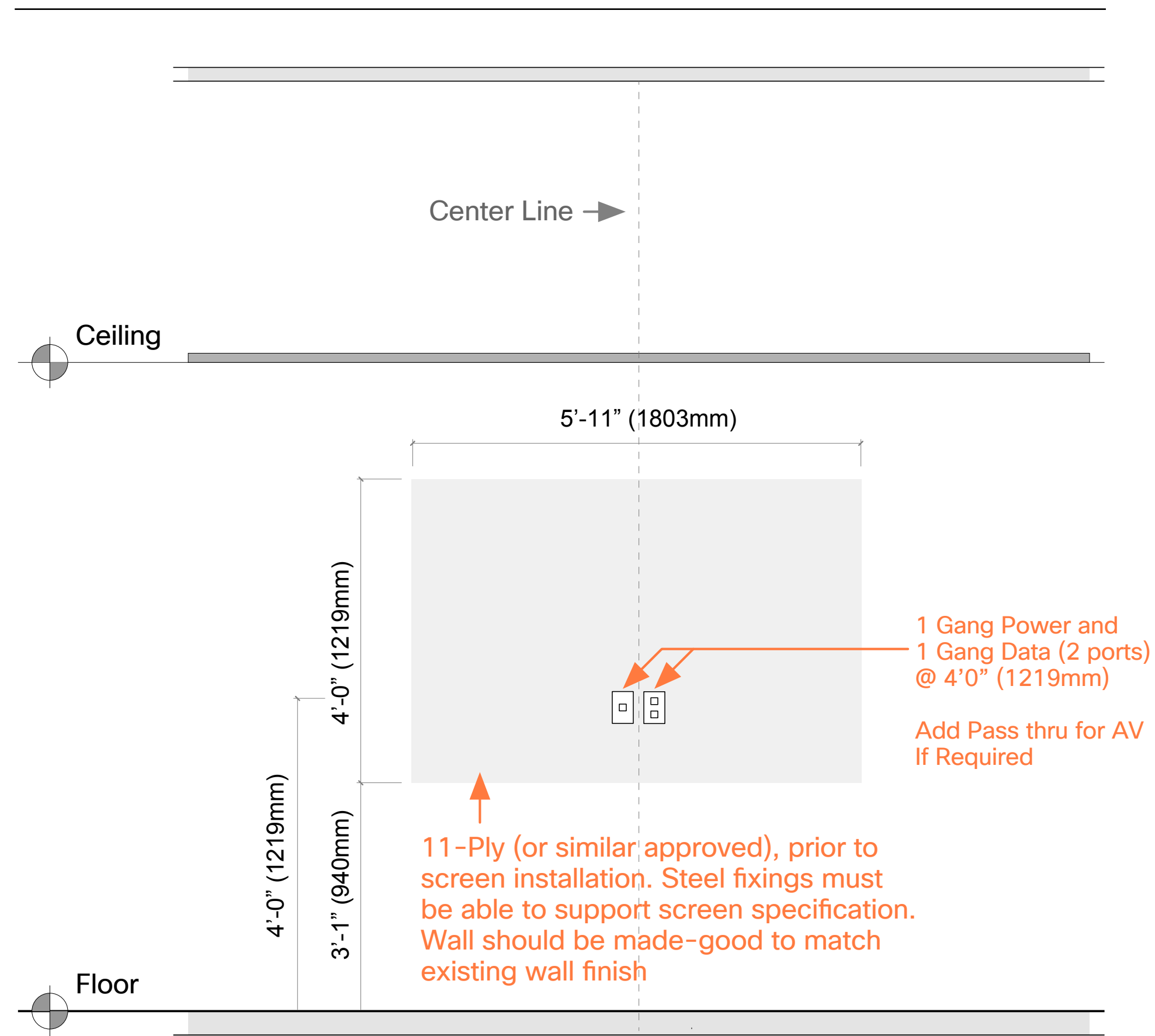


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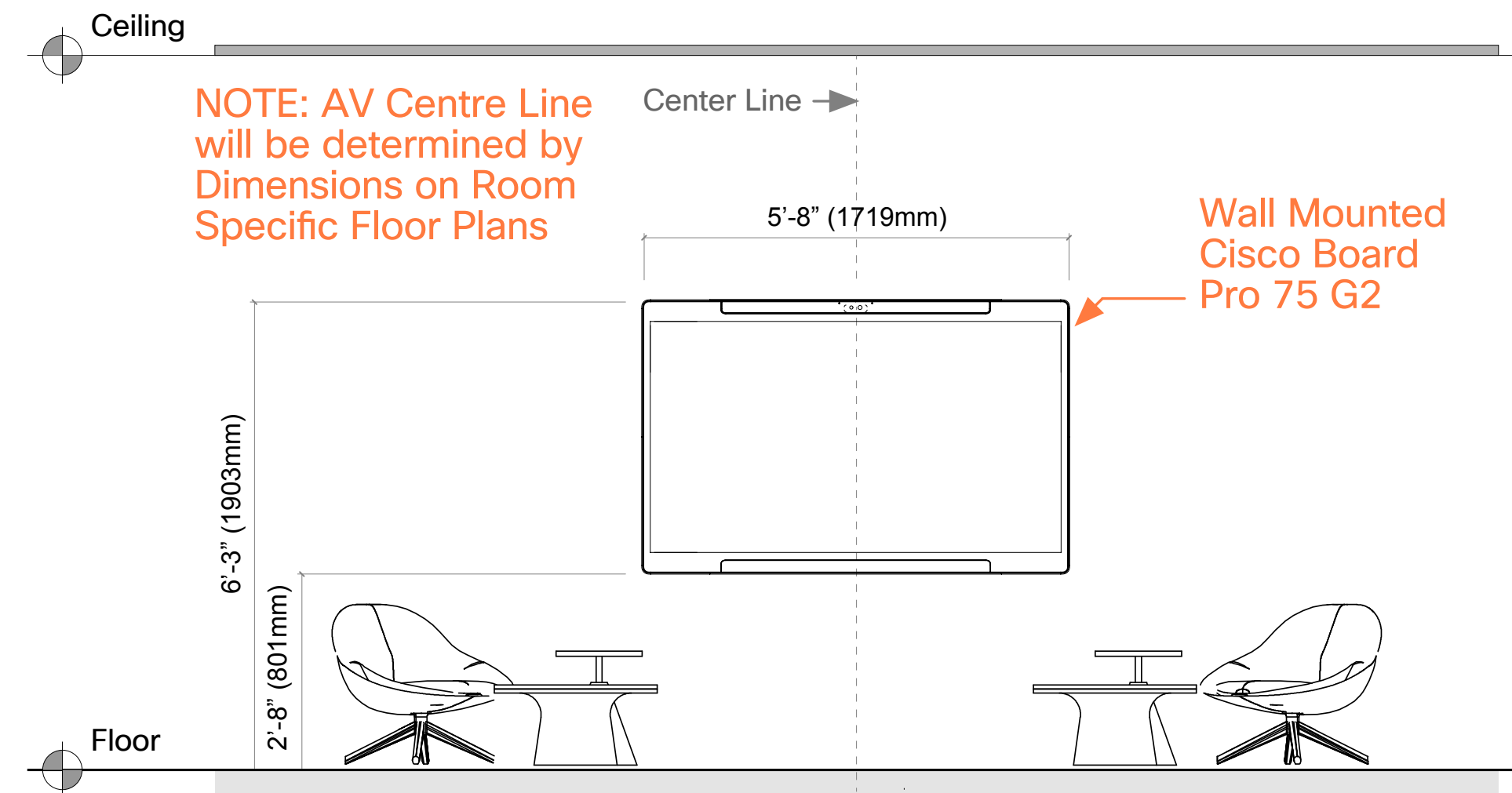
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Room Elevations - Wall Mount Version

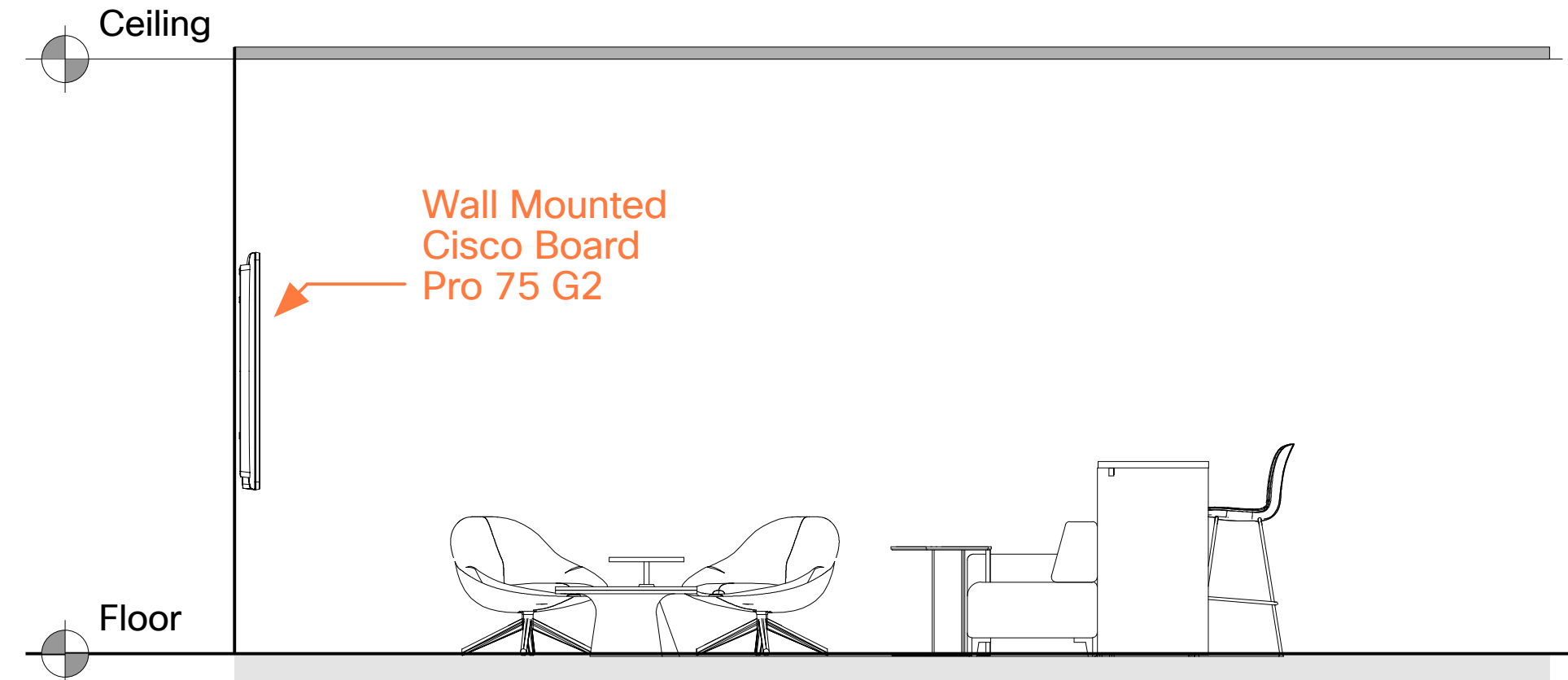
Construction Elevation



Finished Elevation

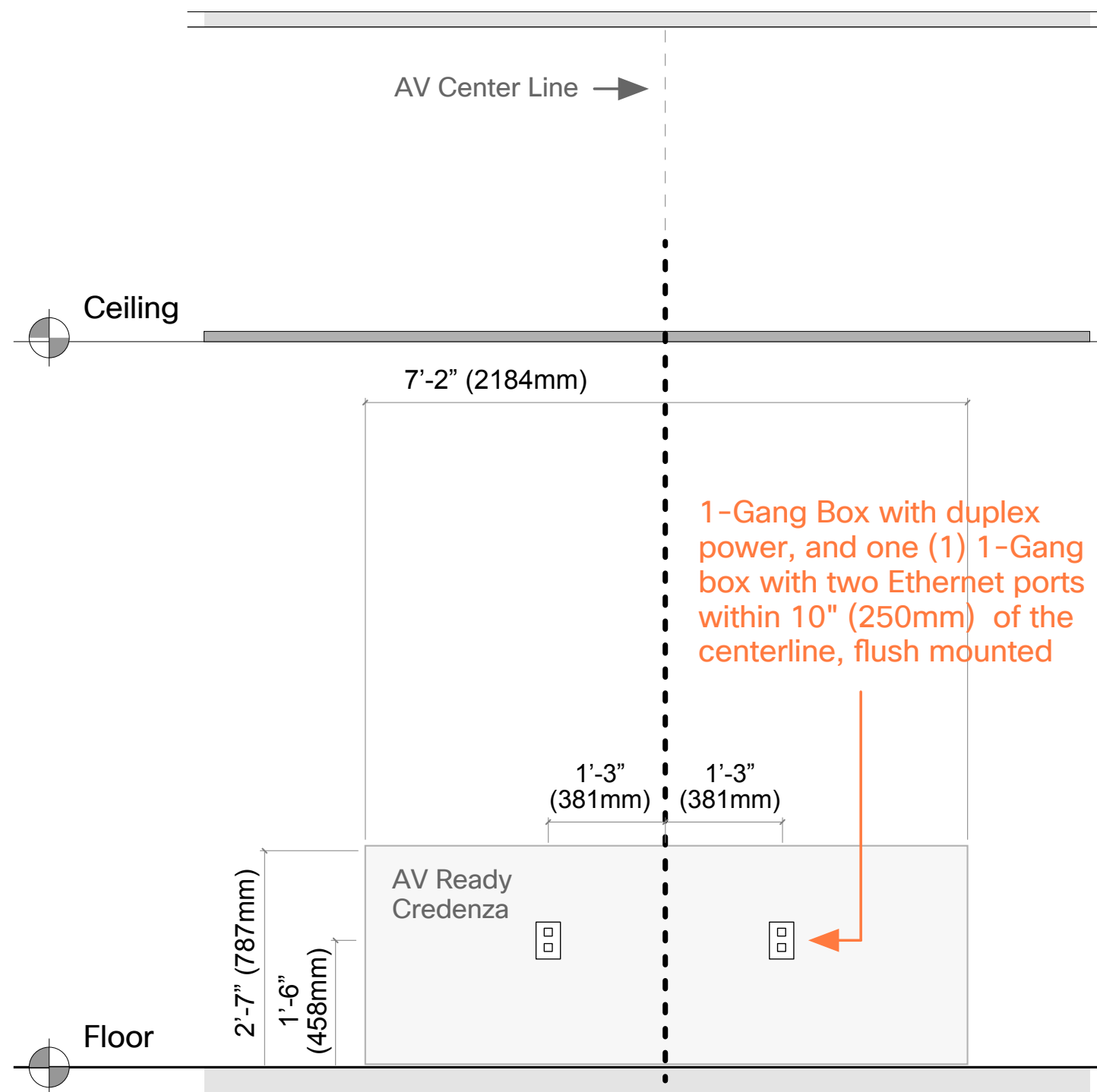


Side Elevation

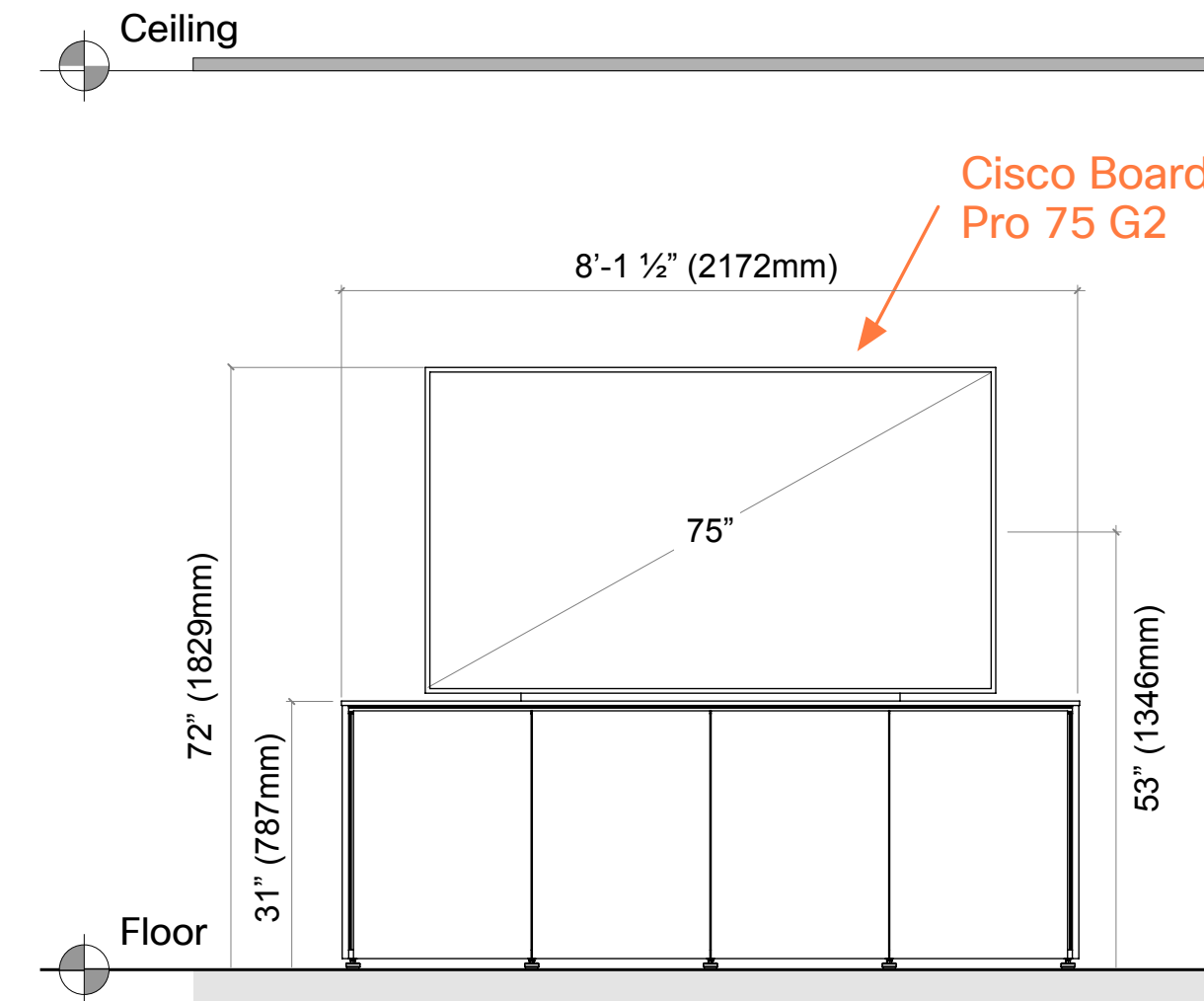


Room Elevations - Credenza Option

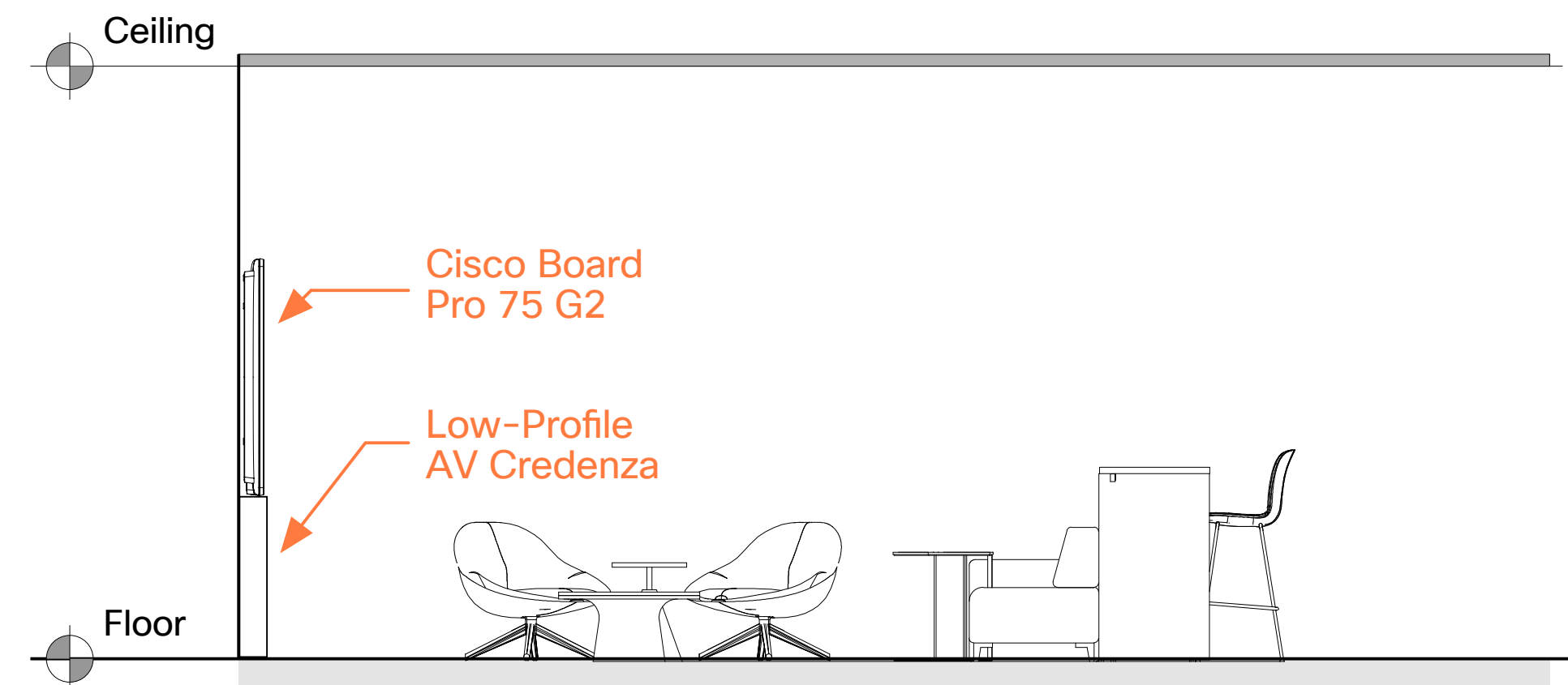
Construction Elevation



Finished Elevation



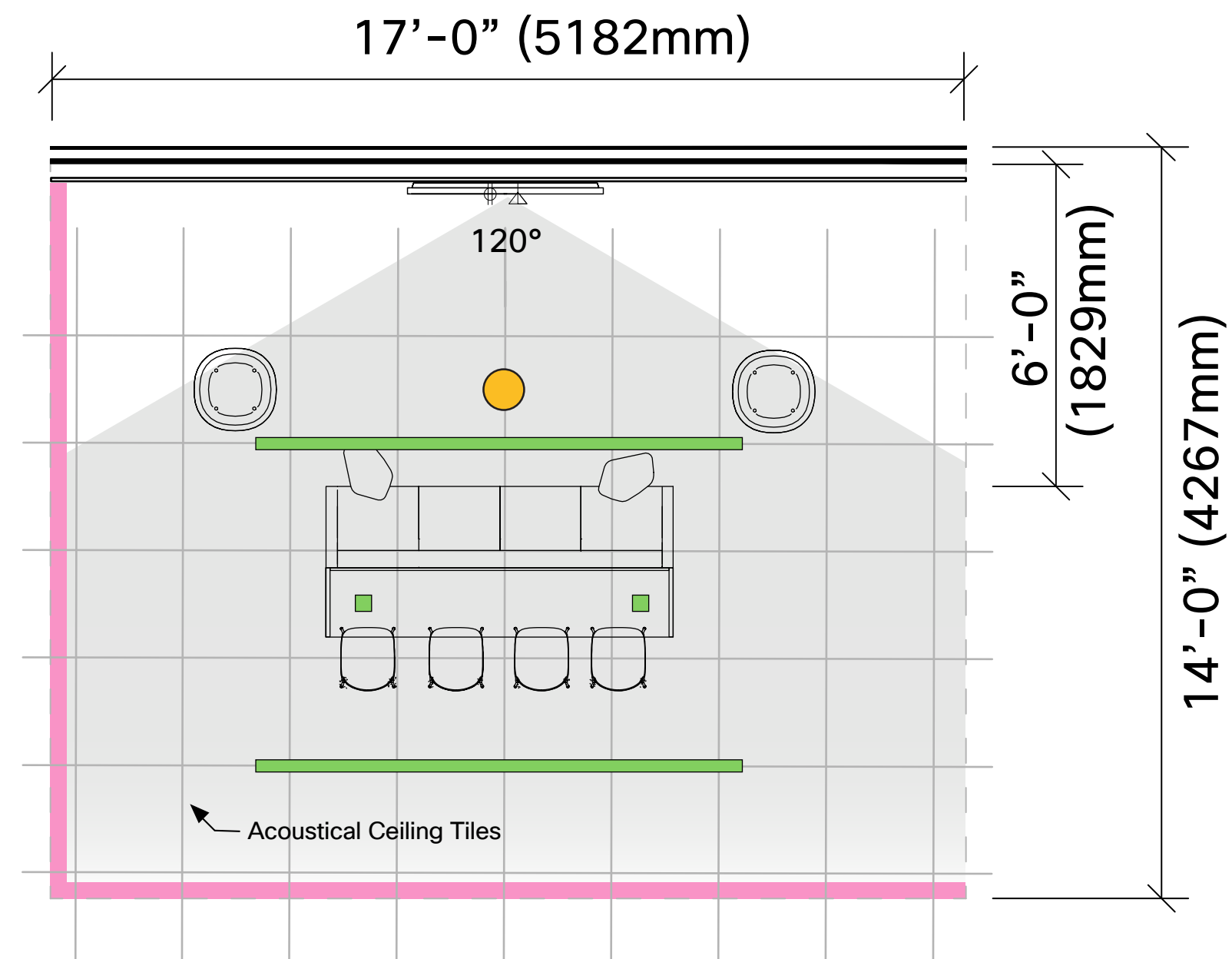
Side Elevation



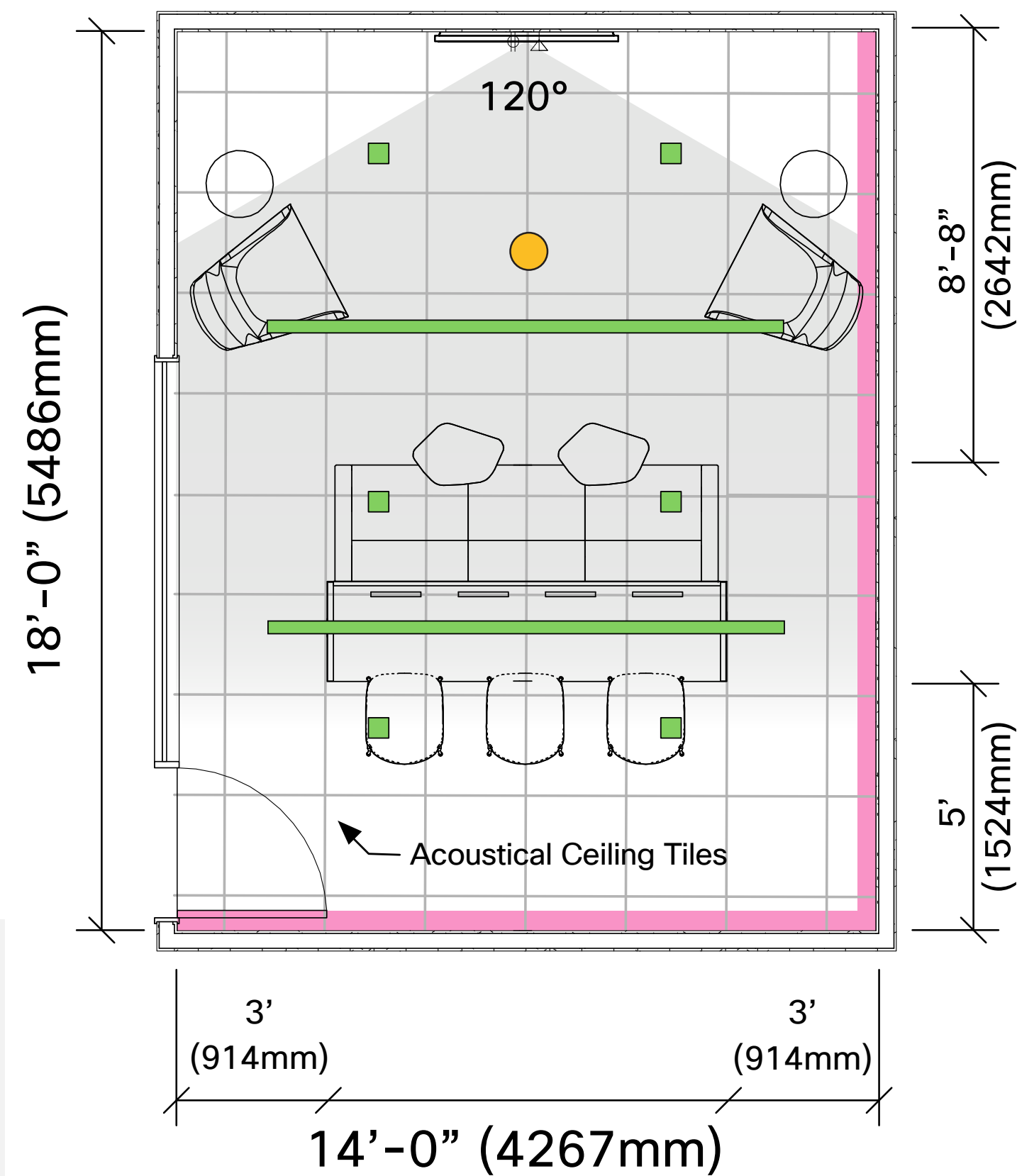
Note: Configuration shown mounts video device and displays directly on an AV ready credenza.

Reflective Ceiling Plan & Acoustical Treatment

Option 1: Landscape



Option 2: Portrait



Graphics Symbols

- Acoustical Ceiling & Grid
- HVAC Diffusers (T.B.D.)
Shown as Example Only
- Light Fixtures
- Acoustical Wall
- Furniture Systems Version Devices**
- Duplex Receptacle & Grid
- Data Receptacle
- Power and Communication**
- WALL / CEILING / FLOOR VERSION DEVICES**
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● A glare-free luminary with a beam angle of 90° or wider is recommended. In addition, fixtures selected should have a color temperature of ~4000K and color rendering index (CRI) of 85 or better.

● Installation of an absorptive ceiling, through the use of acoustic ceiling tiles, as well as the addition of acoustical panels to two adjoining walls within the room (preferably opposite the device and away from the entry location) is highly recommended. A single Cisco Ceiling Microphone Pro may also be required based on individual room acoustics.



Power & Data

General Specifications

Power/data requirements need to be verified for each project. Provide video device power/data even if project plan does not include it day one. Based on the design of this space core drills and floor boxes will not be required.

Power & Data

Provide one (1) duplex power outlet and one data receptacle with two (2) ethernet ports on the wall behind the video device. If wall mounted both power and data should be recessed. If using a credenza, power and data can be at standard height, per local code.

Exploded IT Diagram



Cisco Room Navigator for Table (Optional)

Although not typically required, a Cisco Room Navigator for Table is valuable for end users to control meeting functions (join, mute, self view, end meeting, etc.). If this is the case, the recommended approach is to connect the table stand Cisco Room Navigator directly to the Cisco Board Pro 75 using a network cable, via a floor conduit. The two can also be connected over the IT network if an ethernet port is available under the table.

Cisco Room Navigator for Wall (Optional)

It is recommended to run the cable inside the wall or through the door frame directly back to a network switch.

Table Top Charging

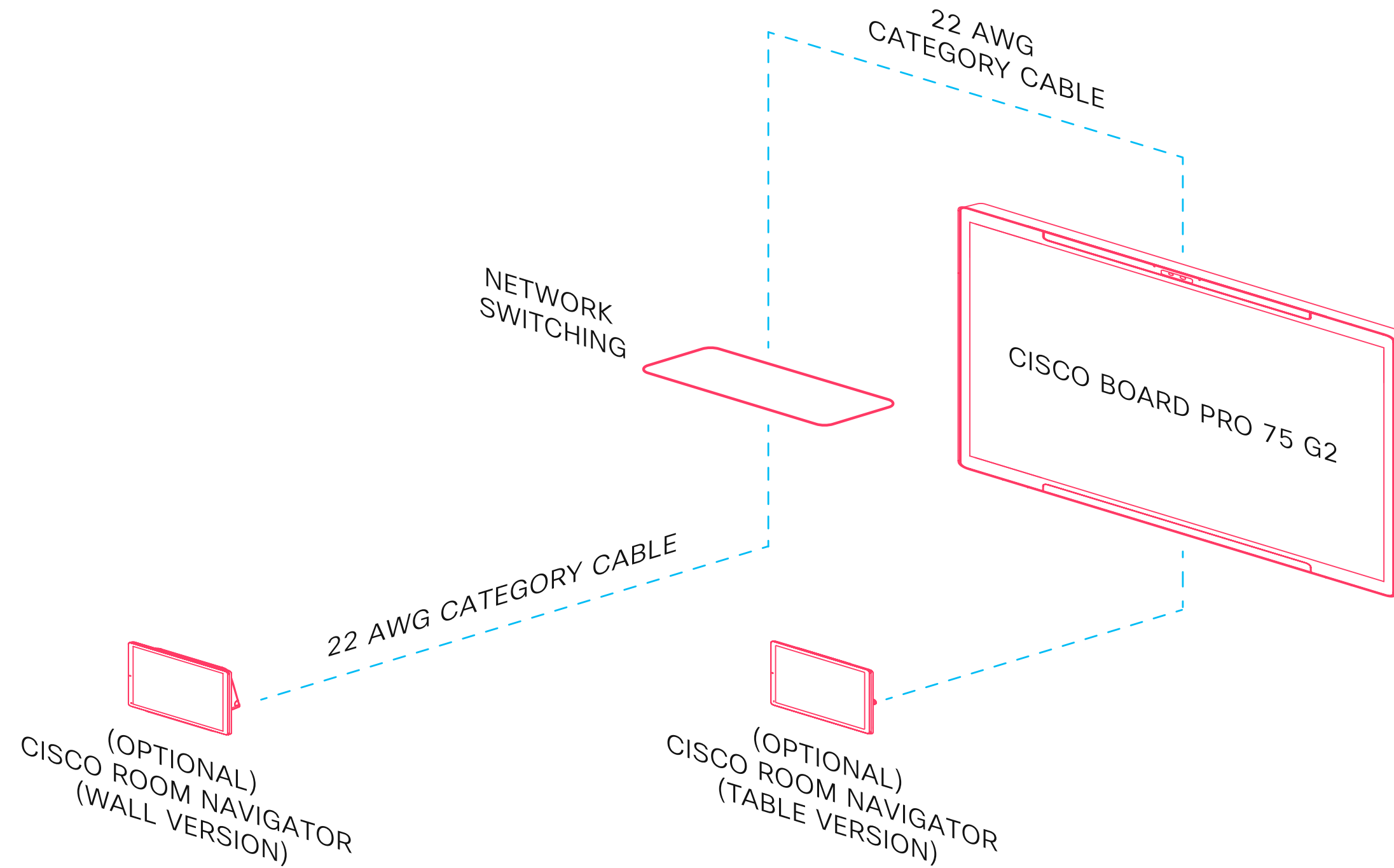
USB-C charging and convenience outlets on table top. Ensure the size of the trough and layout can accommodate a variety of laptop power supplies.

Wall Blocking

Required when the device is wall-mounted. The size and composition of blocking materials should be determined based on the overall weight of the solution deployed.

Core Drilling

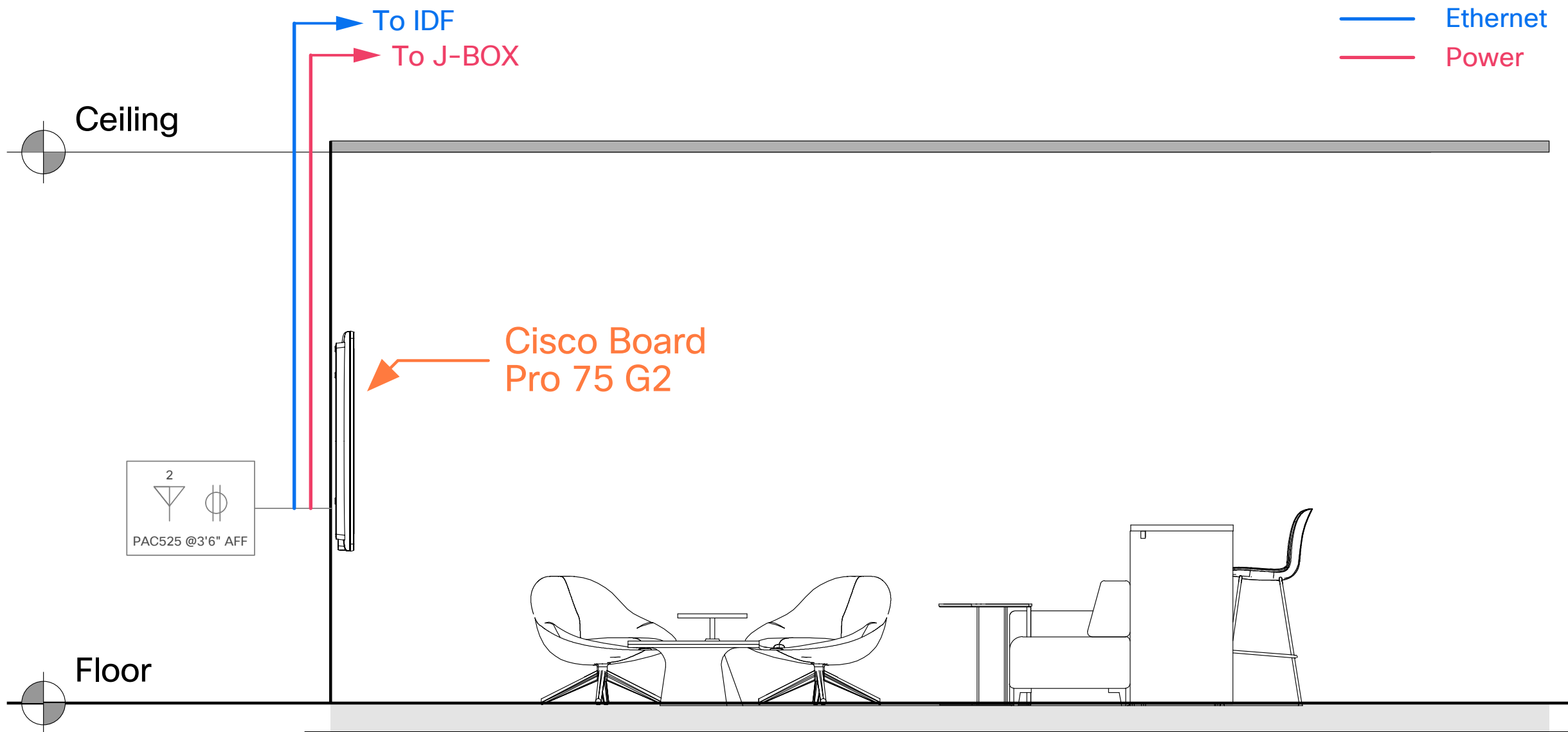
Not required unless HDMI/USB-C cables are present for content sharing, and/or if a Cisco Room Navigator for Table is used and directly connected to the Cisco Board Pro 75.





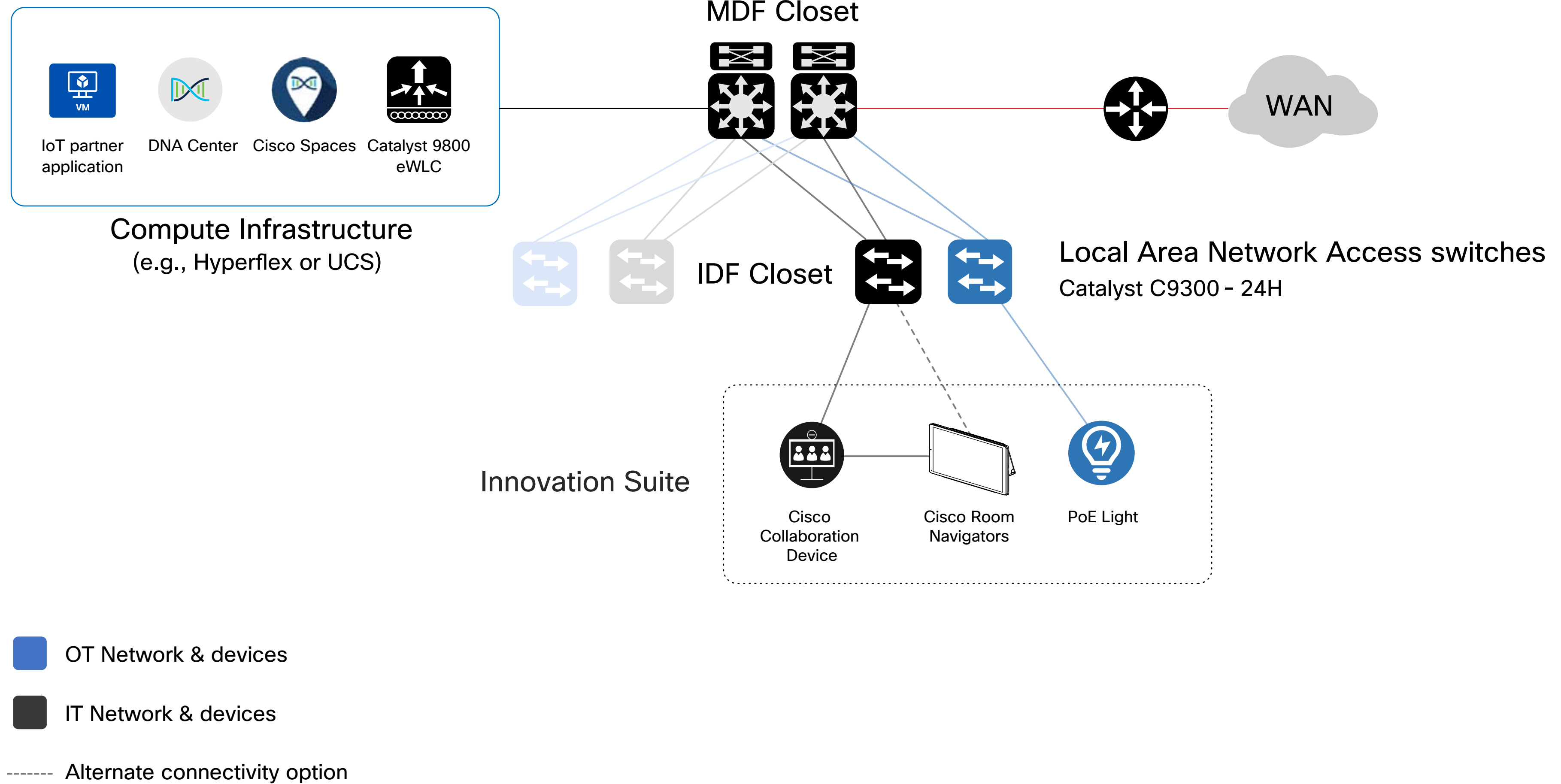
Innovation Suite

Connectivity View



IT/OT Reference Architectures

- Separate IT and OT network layout
- Port based DHCP allocation
- 90W UPoE+



IT/OT Bill of Material

Cisco Products

- **CS-BRD75P-K9** Cisco Board Pro 75 G2
- **CS-BRD75P-WMK=** Cisco Board Pro 75 Wall Mount Kit
- **CS-T10-TS-K9=** Cisco Room Navigator for Table (Optional)
- **CS-T10-WM-K9=** Cisco Room Navigator for Wall (Optional)
- **CS-MIC-CLGPRO** Cisco Ceiling Microphone Pro, Arctic White (Optional)
Note: Must also select mounting kit (Wire Hanging, Drop Ceiling Grid, or Ceiling Bracket)

IOT Considerations

- IAQ coming from the Cisco Room Navigator, No additional IoT IAQ
- Occupancy sensing is coming from the Cisco Endpoints and IoT sensor
- Suggested lighting specifications: 220LPW raw, 140LPW delivered
- Each Medium Collaboration room POE lights being power by 4 ports on the ceiling
- Traditional DC Wall Switch
- Ensure device is not connected to ASHRAE 90.1 outlet

External microphones and speakers

- Mic and speakers are embedded in the Cisco Endpoints, no additional microphones or speakers required unless deployed in an open plan area where acoustical conditions warrant.

Commissioning–User Acceptance Testing (UAT) Criteria



Defining a comprehensive provisioning and end-user acceptance process is critical to successfully deploying technology-enabled collaboration spaces. Listed below is an example of the approach Cisco uses when deploying these types of spaces in our work environments.

Area	Provisioning Guidelines	Commissioning Checklist	Responsibility
Network Connectivity	Device needs to be network connected and configured	Check network status in device settings, connected, and receiving a valid IP Address.	IT-Network and Operations
Display settings	Confirm third-party display settings	During business hours, all displays should show either the meeting start screen or digital signage when in awake or half-wake mode. If the device is in half-wake, the system and displays should simultaneously wake up once room presence is detected. In a dual-screen setup, ensure both screens are awake	IT-Collaboration
Wallpaper	Although several options are available, “default” is the standard	Verify correct wallpaper is present	IT-Collaboration
Space Management	Verify that the booking option on the Cisco Room Navigator for Table and Wall are set properly	Cisco Space Management policy states that these rooms should be bookable. If these rooms are proxy-controlled, confirm that the room is present in Exchange but that there is NOT a “Book this Room” option on the Cisco Board Pro G2, Cisco Room Navigator for Wall, or Cisco Room Navigator for Table (if deployed). For publicly bookable rooms, confirm that this room is present in Exchange, and that the “Book this Room” is available on the Cisco Board Pro G2, Cisco Room Navigator for Wall, and Cisco Room Navigator for Table (if deployed). While inside the room, try Webex Assistant by saying “Hey Webex, book this room for 30 minutes,” and verify that the command is accepted. In both proxy and public rooms, confirm that the calendar button is present and functioning on the Cisco Board Pro G2, and Cisco Room Navigator for Wall and Cisco Room Navigator for Table (if deployed).	IT-Collaboration
Cisco Wall Navigator	Confirm Cisco Wall Navigator displays correct details on room configuration and presence	Check that the occupancy count displayed on the Cisco Room Navigator for Wall matches the actual number of seats in the room, that the temperature and humidity are displayed, and that, as you enter, the Room Navigator changes from green to red.	IT-Collaboration

Area	Provisioning Guidelines	Commissioning Checklist	Responsibility
Display Signage	Configure optional digital signage package.	Configure signage based on the intent of the space. For customer-facing rooms, use the corporate package; for back office/employee spaces, use the facilities package.	IT-Collaboration
Cisco Spaces	Confirm room is administered in Cisco Spaces	Verify that the room is administered properly in Cisco Spaces: <ul style="list-style-type: none"> On the Cisco Spaces map, the room is showing either red or green status The layout of the room within Cisco Spaces matches how the room visually appears When you bring up details on the space (by touching the space on the map), the environmental metrics appear, and the room occupancy matches the actual number of seats in the space When you hit “get directions,” path-finding shows a logical path to the space. Scan the QR code on your mobile device and verify the applet downloads and provides step-by-step directions. 	IT-Spaces and Facilities
Lighting	If applicable, verify intelligent lighting is working properly	Although defined by local building code, intelligent lighting generally should automatically turn lights on and off based on room occupancy. <ul style="list-style-type: none"> As you enter the room, the lights should turn on automatically. Verify all lighting elements are on with equal brightness Verify that the wall switch controls the lighting function After exiting the space, return to ensure the lights have automatically turned off. 	Facilities
Shading	If applicable, verify intelligent shading is working properly	Shades adjust based on external environmental conditions (sun path) and are controllable via in-room controls.	Facilities
Smart Building Macros – Lighting and shading (if applicable)	If applicable, add lighting and shading controls, if smart building components are added to the Cisco Board Pro G2 and the Cisco Room Navigator for Table (if deployed)	Confirm lighting and shading controls are working properly Toggle through various settings to see how lights and shades react. These should be independent of the wall switch setting.	IT-Collaboration

Commissioning-User Acceptance Testing Criteria

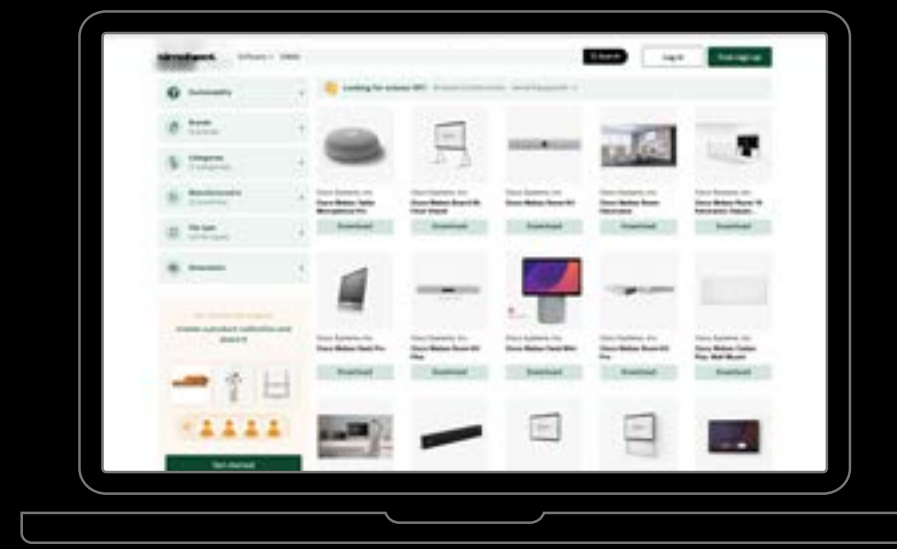


Area	Provisioning Guidelines	Commissioning Checklist	Responsibility
Room Metrics	Add customer Room Metrics macro to the device	As you enter the room, environmental metrics should be displayed in the upper right-hand corner. Additionally, a menu button should be present on both the Cisco Board Pro G2 and Cisco Room Navigator for Table (if deployed), and when pressed, should display the same information.	IT-Collaboration
Camera Settings	Verify is camera is configured correctly	<p>In Device Settings -> Camera, go through each of the camera modes to ensure they work properly</p> <ul style="list-style-type: none"> Manual - The camera should capture the entire room, with the table centered in the frame Group - The camera will adjust to show everyone, dynamically adapting to subtle changes in the group so that all participants are optimally framed. Frames - The camera will zoom and show people individually or in smaller groups. Speaker - The camera will follow the person speaking, automatically adjusting close-ups to follow the speaker's movements. The maximum distance for speaker tracking to work is 7.5 meters. Dynamic - the system chooses the camera mode best suited to the situation in the room. If up to four people are in the room, you'll get Frames mode. When a fifth person enters the room the camera mode switches to a cropped overview and then to Speaker or Group and Speaker mode. <p>• Set the default to "Dynamic" once complete</p>	IT - Collaboration
Collaboration Functions	Check collaboration functions: make a test call, join a meeting and share content	<p>Using a laptop:</p> <ul style="list-style-type: none"> Verify that the laptop automatically pairs with the device when entering the room Confirm display mirroring - Share content wirelessly (via Webex App) and with a USB-C cable Start a meeting via the Webex app, share content, and end the meeting 	IT-Collaboration



Design Files

Design files (Revit, AutoCAD, Sketch up, Rhino3D, etc.) for Cisco's collaboration devices, network switches, wireless access points and Meraki security cameras can be found at www.bimobjects.com, search "Cisco."



Resources

Cisco Board Pro G2 Data Sheet

Guide: Best Practices for Creating Effective Video-enabled Rooms

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The intent of this document is to highlight the details, components, and partners used in the creation of this room type. Any reference herein to any specific commercial products or services does not necessarily constitute or imply their endorsement or recommendation.

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