



Smart Building Technology
and Hybrid Work Solutions

Cisco Talent and Collaboration Centers

Medium Brainstorming Room Design Guide



Introduction

Overview and Intent

This document provides guidance on how to effectively design a Medium Brainstorming Room.

This design brings space layout, technology, and furnishings together to create an optimal experience for those present locally and for remote attendees.

Each customer project is unique. Thus, involving local facilities teams, workplace design resources, architects and space designers, IT, and a Cisco-certified integrator is important. The collective goal is to finalize the details of any design, verify the applicability and address any local concerns – electrical/mechanical, orientation and location of the room within the floor plan, accessibility, circulation, and external factors such as noise, light, and temperature.

Room Description

This brainstorming space is built for when larger groups need to ideate. The table orientation and shape ensure everyone can be seen and heard, and the density of the space is gracious, allowing ample space to move within the room. The Cisco Board Pro 75 G2 is multi-functional, enabling video calls, content sharing, and whiteboarding.

Supported Collaboration Activities

Information Sharing	✓
Brainstorming	✓
Team Building	✓
Decision Making	✓

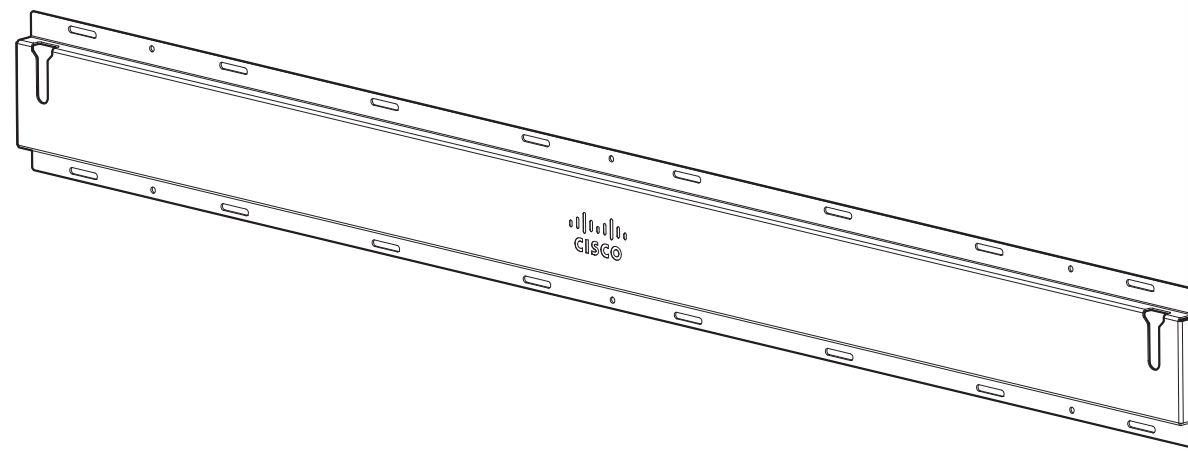
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Visualization of key Cisco elements



Cisco Board Pro 75 G2



Cisco Board Pro 75 Wall Mount Kit

Cisco Room Navigator for Wall
(When Deployed in an Enclosed Room)



Cisco Room Navigator for Table
(Optional)

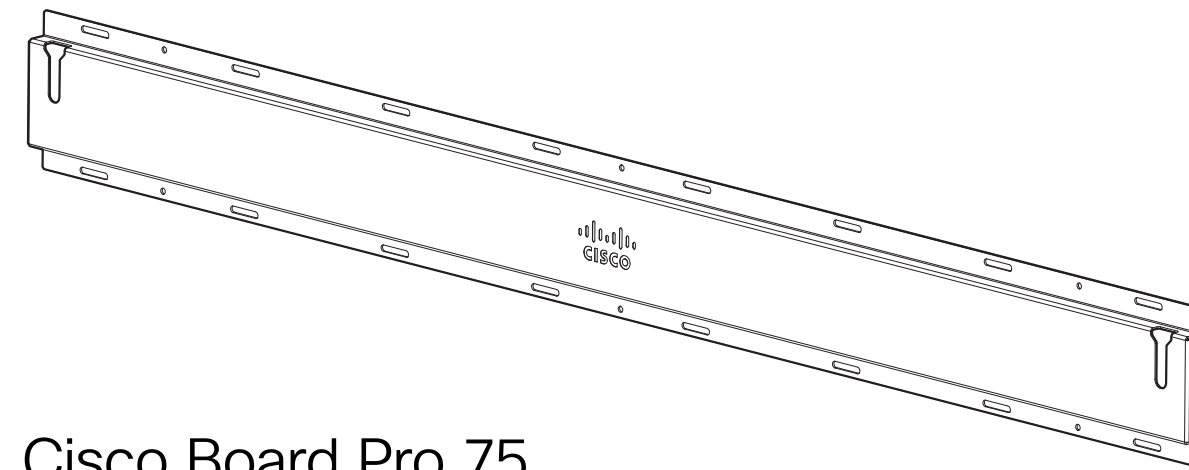


Video Device Mounting Options

There are two mounting options for the video device in the Medium Brainstorming Room, 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.



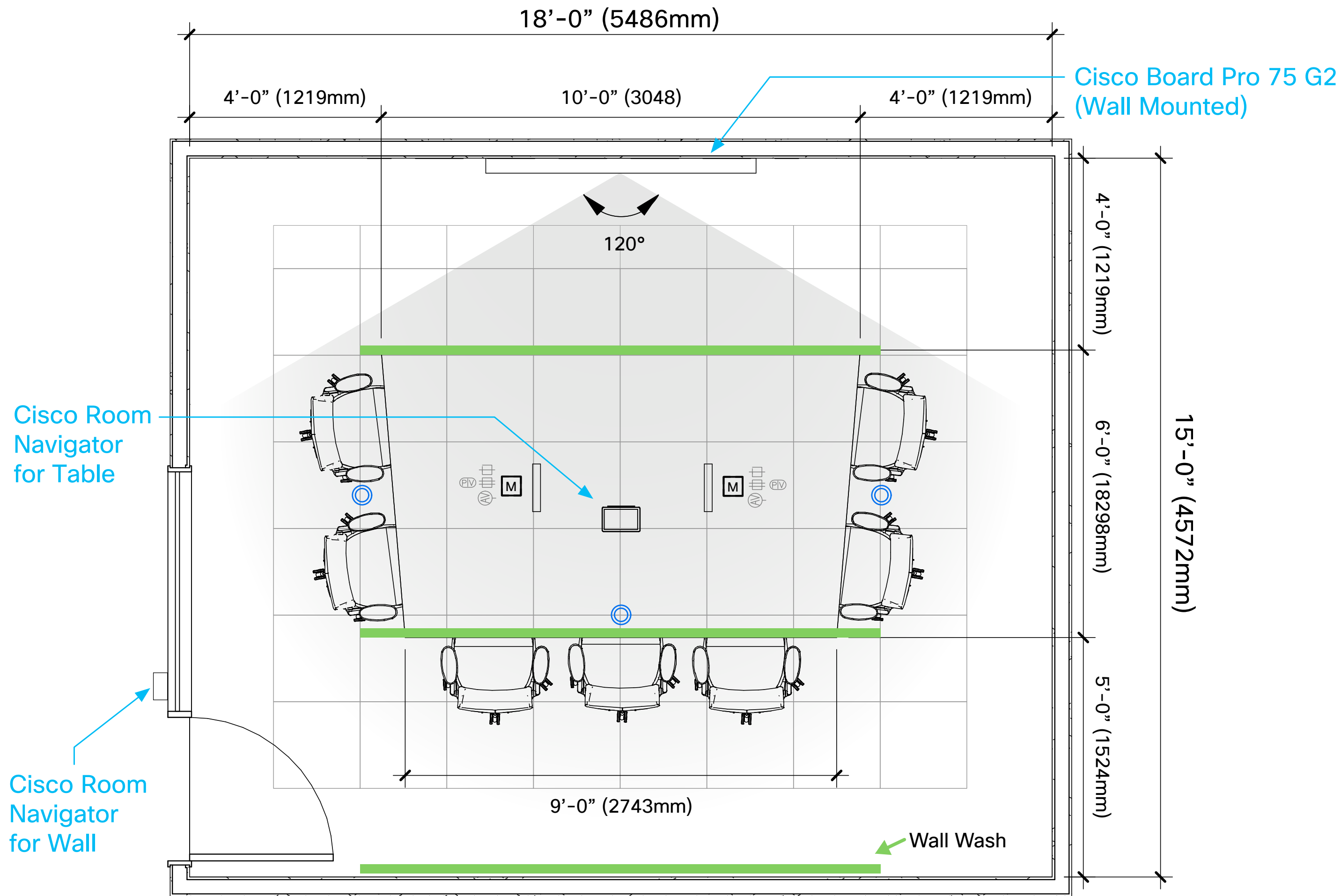
Cisco Board Pro 75
Wall Mount

Option 2: Credenza Option

Low profile A/V compatible credenza - Fully integrated cabinets available from a number of specialized vendors, many eliminate the requirement for the wall to be blocked and electrical moved. Perfect for new and retrofit installations, allowing for quick and efficient installation. Check with manufacturers for specific details.



Composite Plan

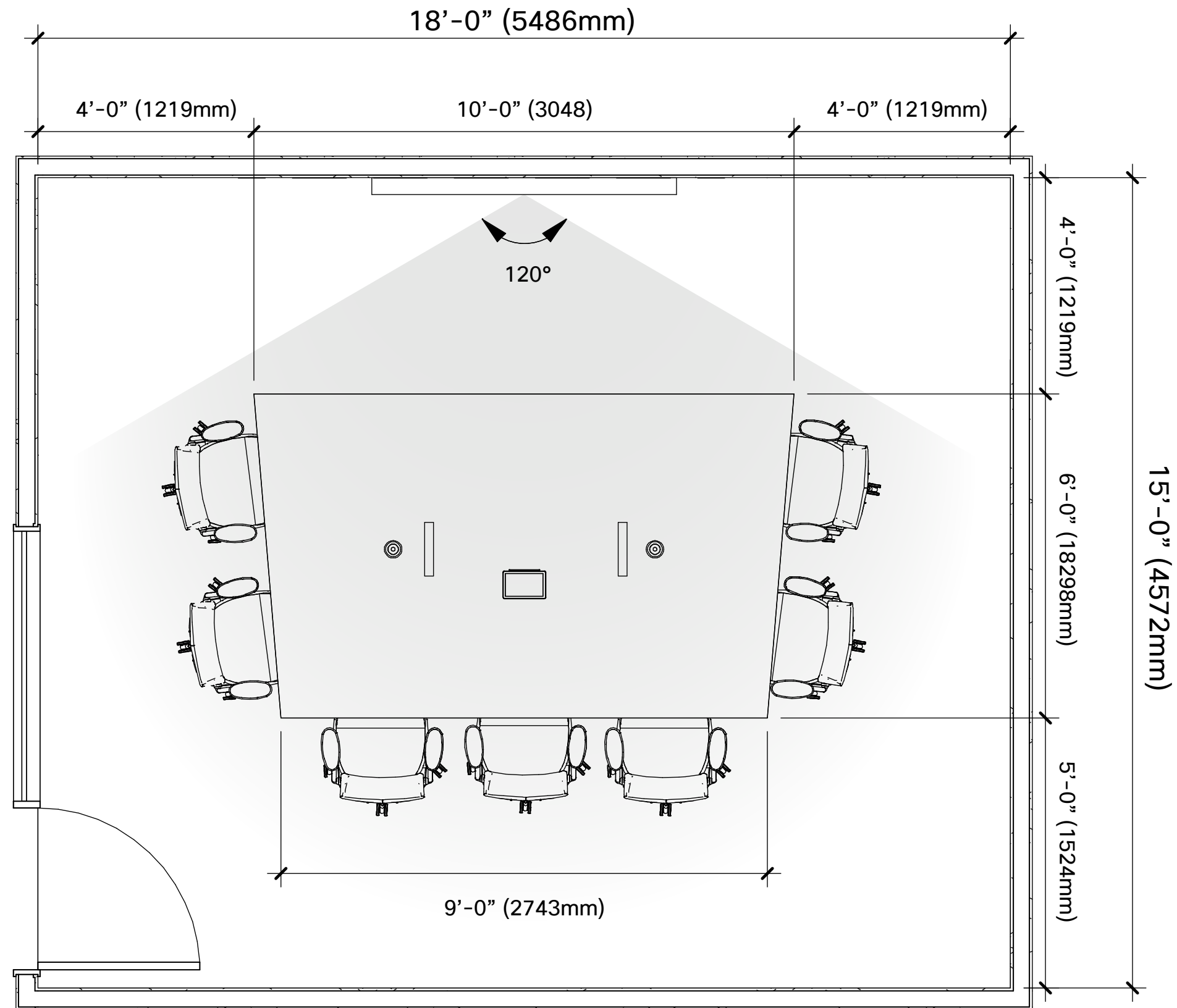


Graphics Symbols

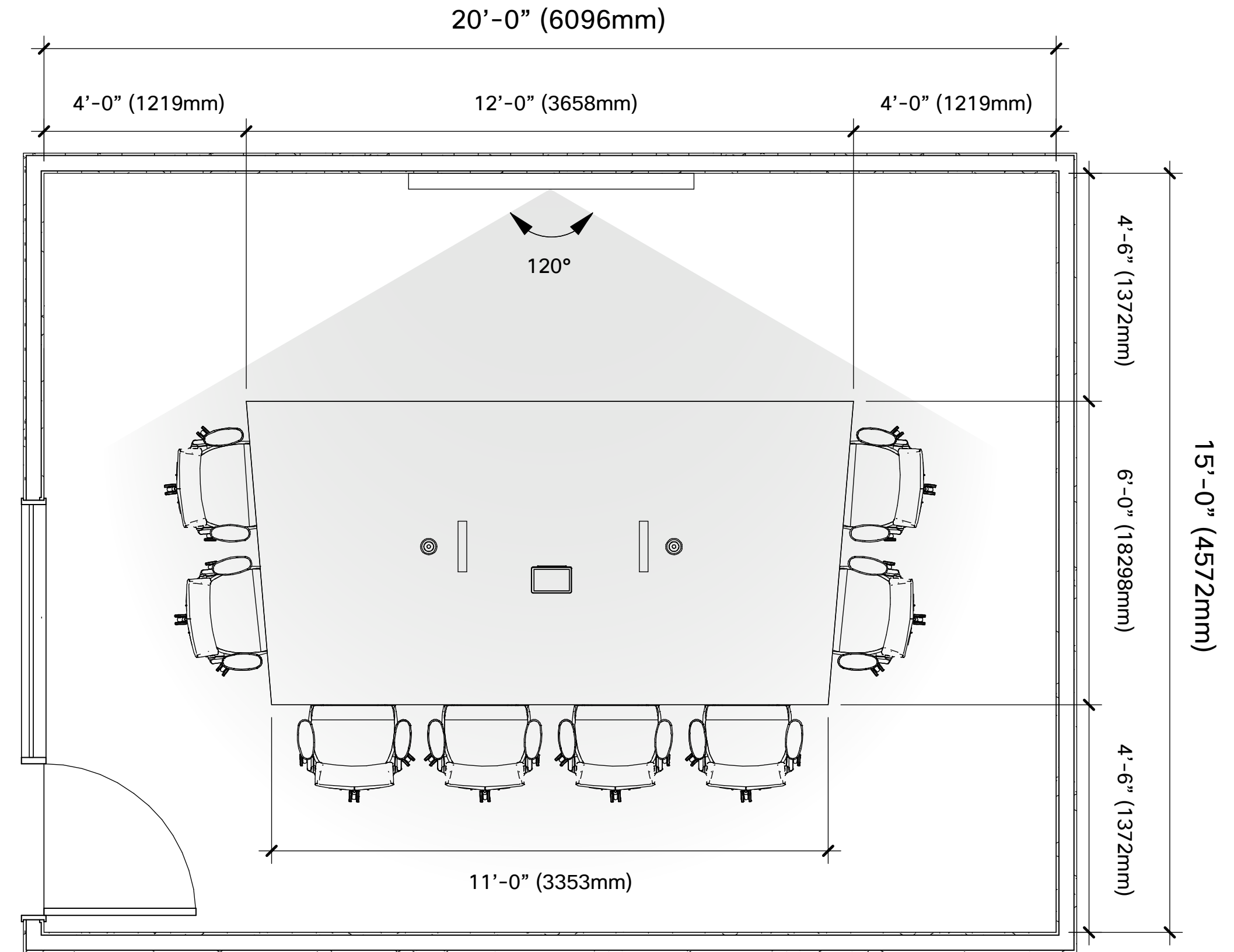
- Acoustical Ceiling & Grid
- HVAC Diffusers (T.B.D.)
Shown as Example Only
- Light Fixtures
- Acoustical Wall
- Furniture Systems Version Devices**
 - Duplex Receptacle & Grid
 - Data Receptacle
- Power and Communication**
WALL / CEILING / FLOOR VERSION DEVICES
 - Third Party Speakers (Optional)
 -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

Room Layout

7-Person Option



8-Person Option

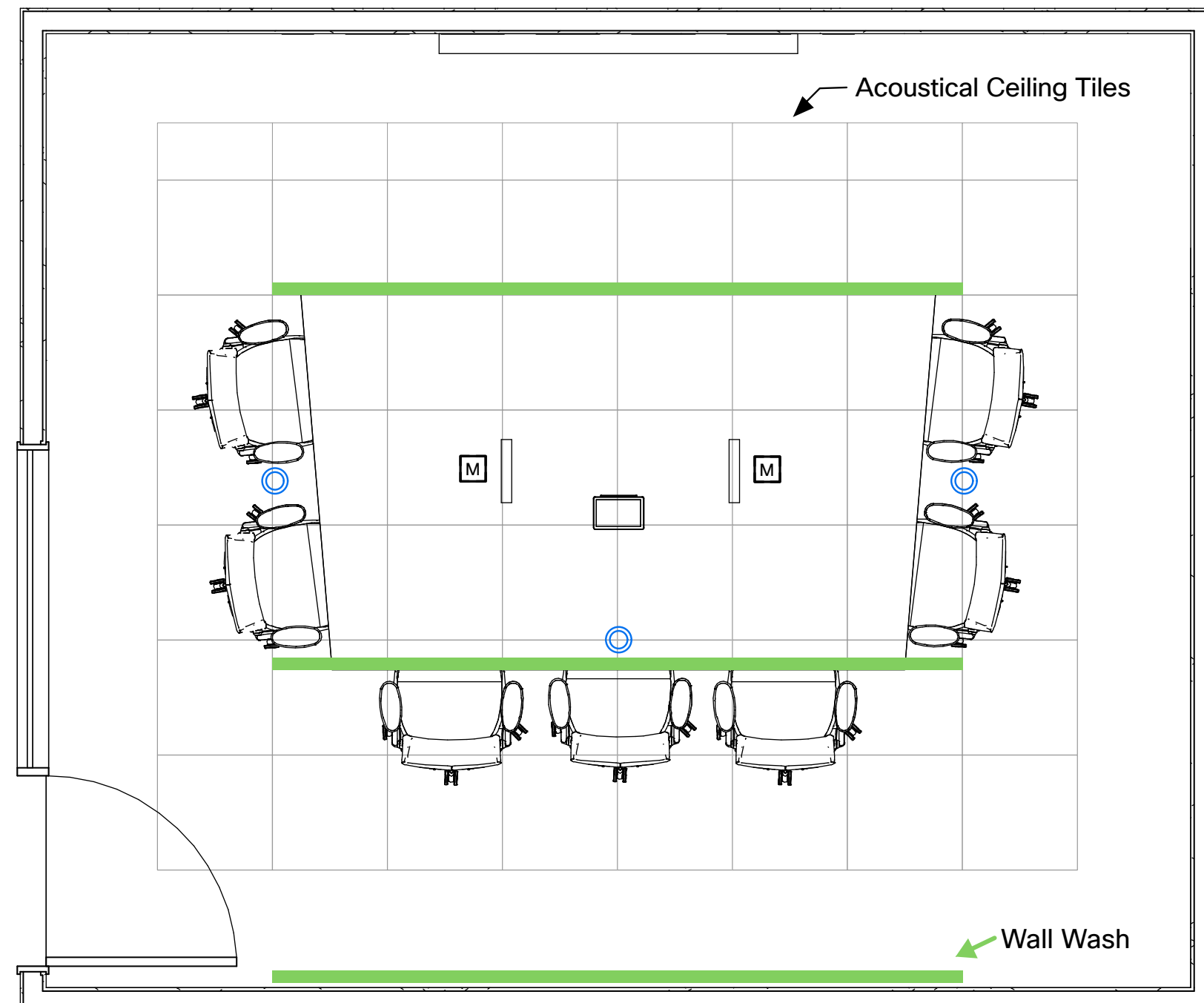


Note: Room dimensions shown are minimal size, based on the two occupancy options. Table size and circulation area can be increased if space permits, the setback from the

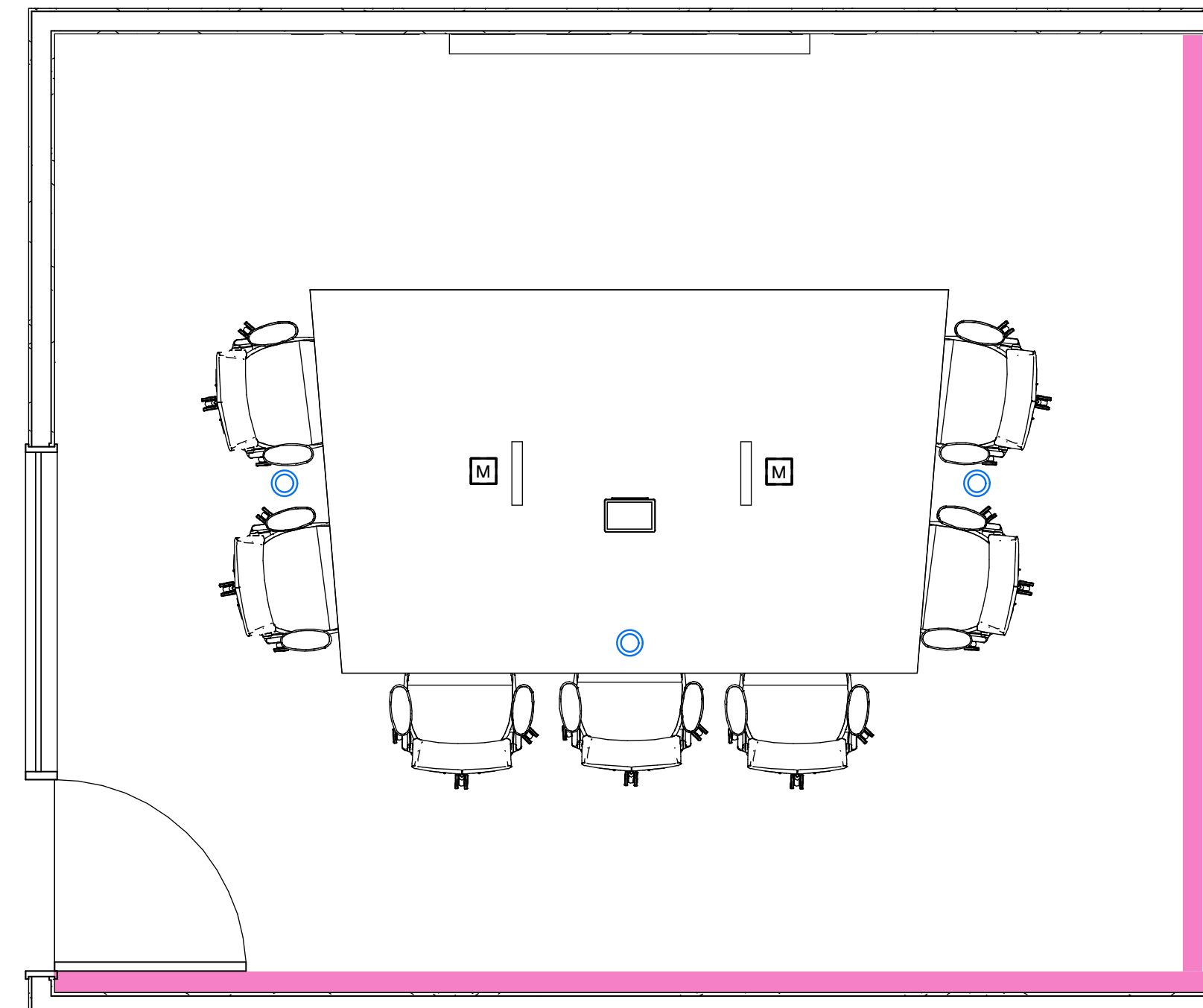
video device to the front edge of table is based on field of view (FoV) of the Cisco Board Pro G2, and can be increased for additional circulation, if necessary.

Reflective Ceiling Plan & Acoustical Treatment

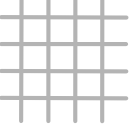












Reflective Ceiling Plan



Acoustical Treatment



Graphics Symbols

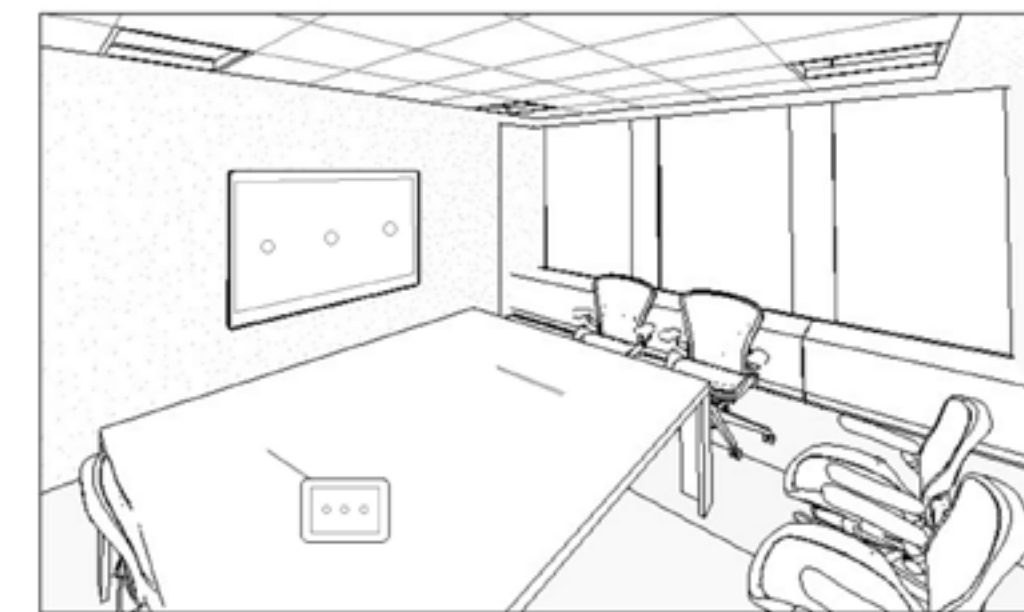
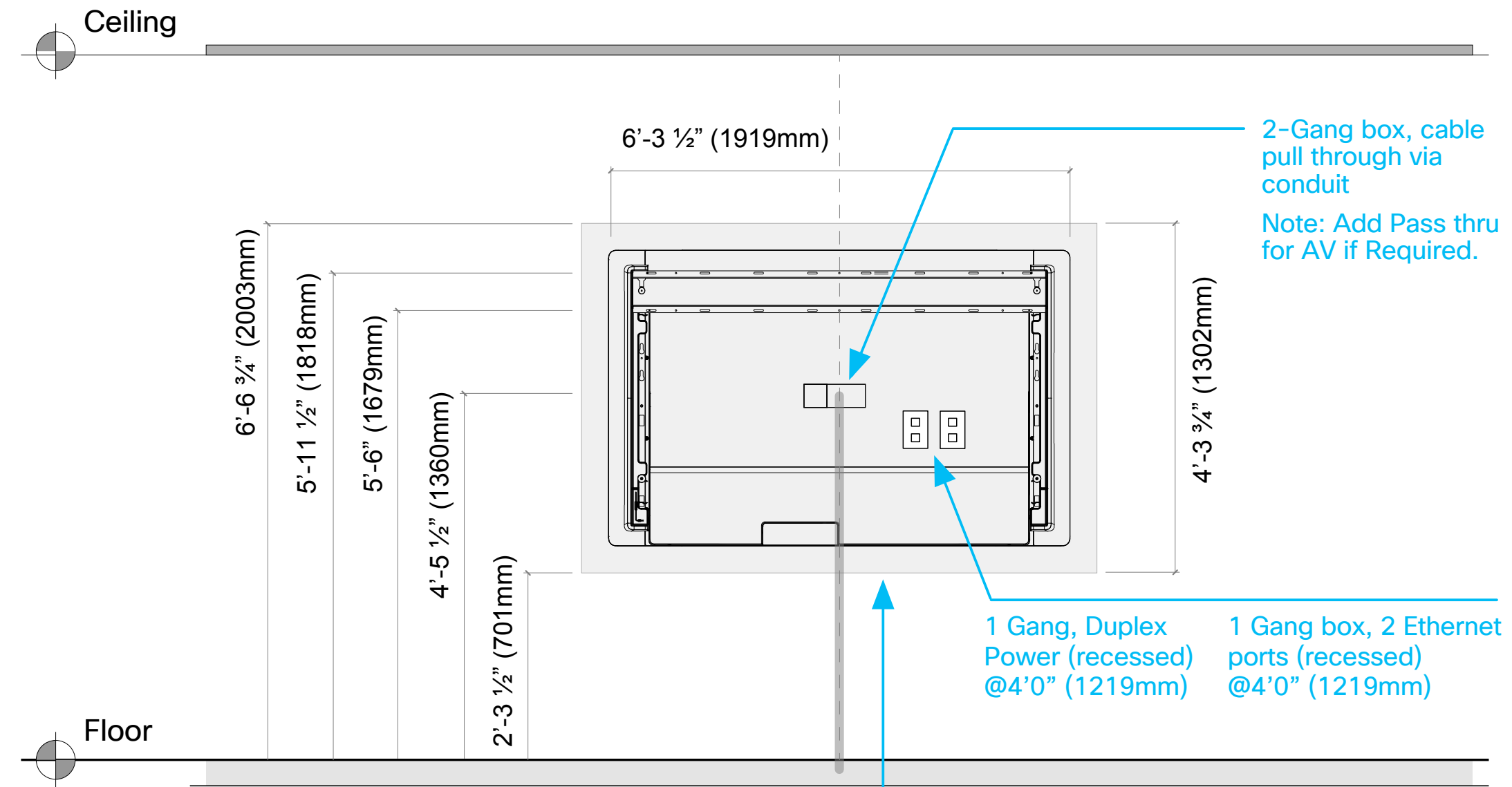
-  Acoustical Ceiling & Grid
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- WALL / CEILING / FLOOR VERSION DEVICES**
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-  Data Receptacle
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A glare-free luminary with a beam angle of 90° or wider 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. The color of that fabric should complement skin tones, orange, yellows, reds and green should not be used. In addition, small patterns and strips should be avoided as they may result in undesirable visual effects, such as moiré patterns.

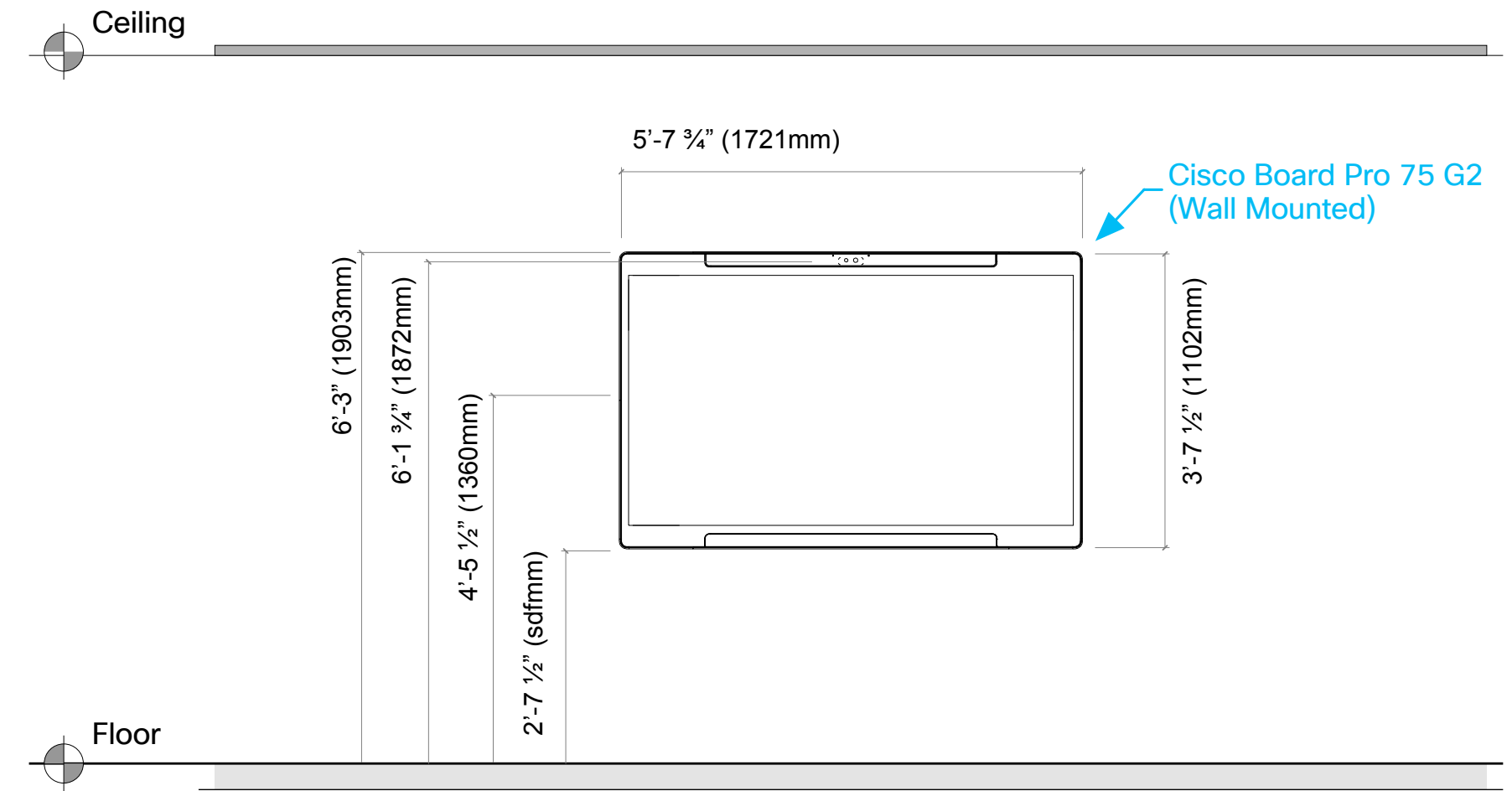
Room Elevations

Construction Elevation

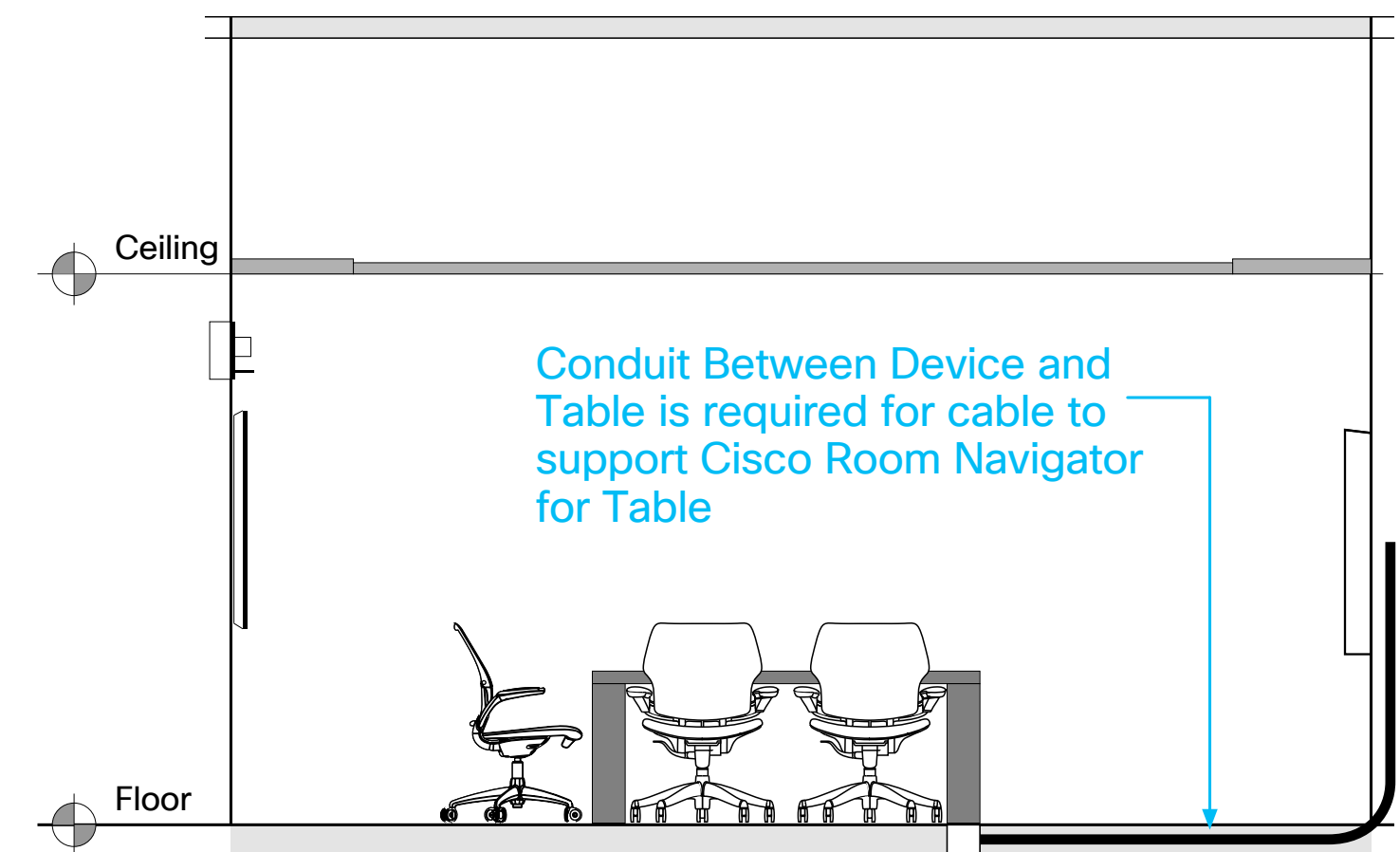


Perspective View

Finished Elevation



Side Elevation



Power & Data



General Specifications

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

Power & Data

If wall-mounted, provide two (2) recessed data jacks and dual plugs on the wall behind the video device. If using a credenza, power and data can be at standard height per local code. Connectivity for the Cisco Navigator for Table version (if deployed) requires either a data jack installed under the table or a conduit between the device and table.

Power in Tabletop

User power should be surface mounted in the tabletop. If pop-ups or table wells are used, it is important to verify that they can accommodate all laptop power supplies. Provide shared power – 1 power port for every two seats.



Exploded IT Diagram



Cisco Room Navigator for Table

The recommended approach is to connect the table stand Cisco Room Navigator directly to the Cisco Board Pro 75 G2 using a network cable. The two can also be connected over the IT network if an ethernet port is available under the table.

Cisco Room Navigator for Wall

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

Third-party Speakers

Although not typically required for this space, they can be used if local conditions warrant. (Requires conduit behind device to ceiling.)

Table Top Charging

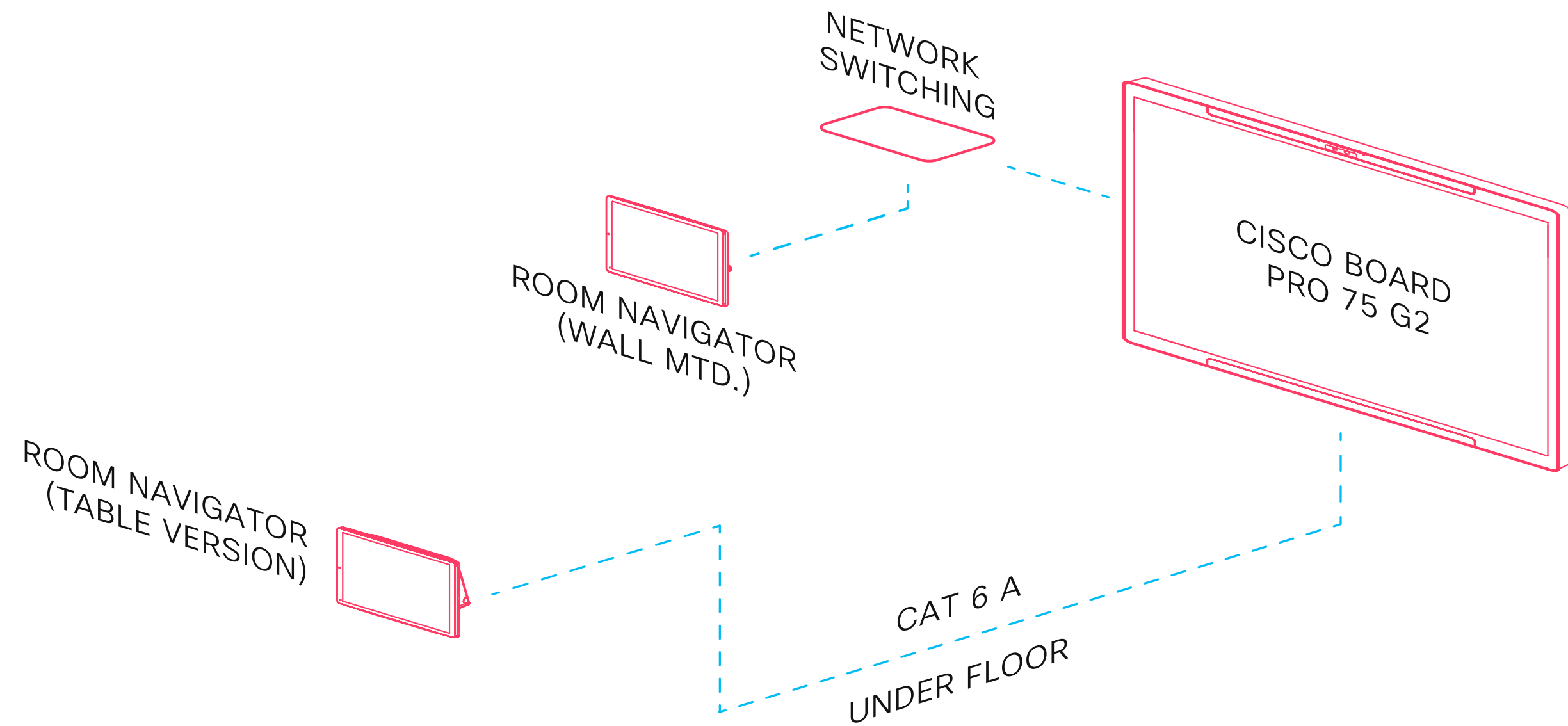
USB-C charging and convenience outlets on table top. Ensure the size of the trough and layout can accommodate a variety of laptop power supplies.

Wall Blocking

Required when the device is wall-mounted. The recommended size and composition of blocking materials are outlined in this design guide, but should be confirmed with the A/V integrator.

Core Drilling

Core Drill-Preferred method for providing connectivity between the table and the Cisco Board Pro 75 G2 for the Cisco Room Navigator for Table, Cisco Table Microphones and/or A/V cables. If core drilling is not an option, a floor cable cover or wire concealer can be used.



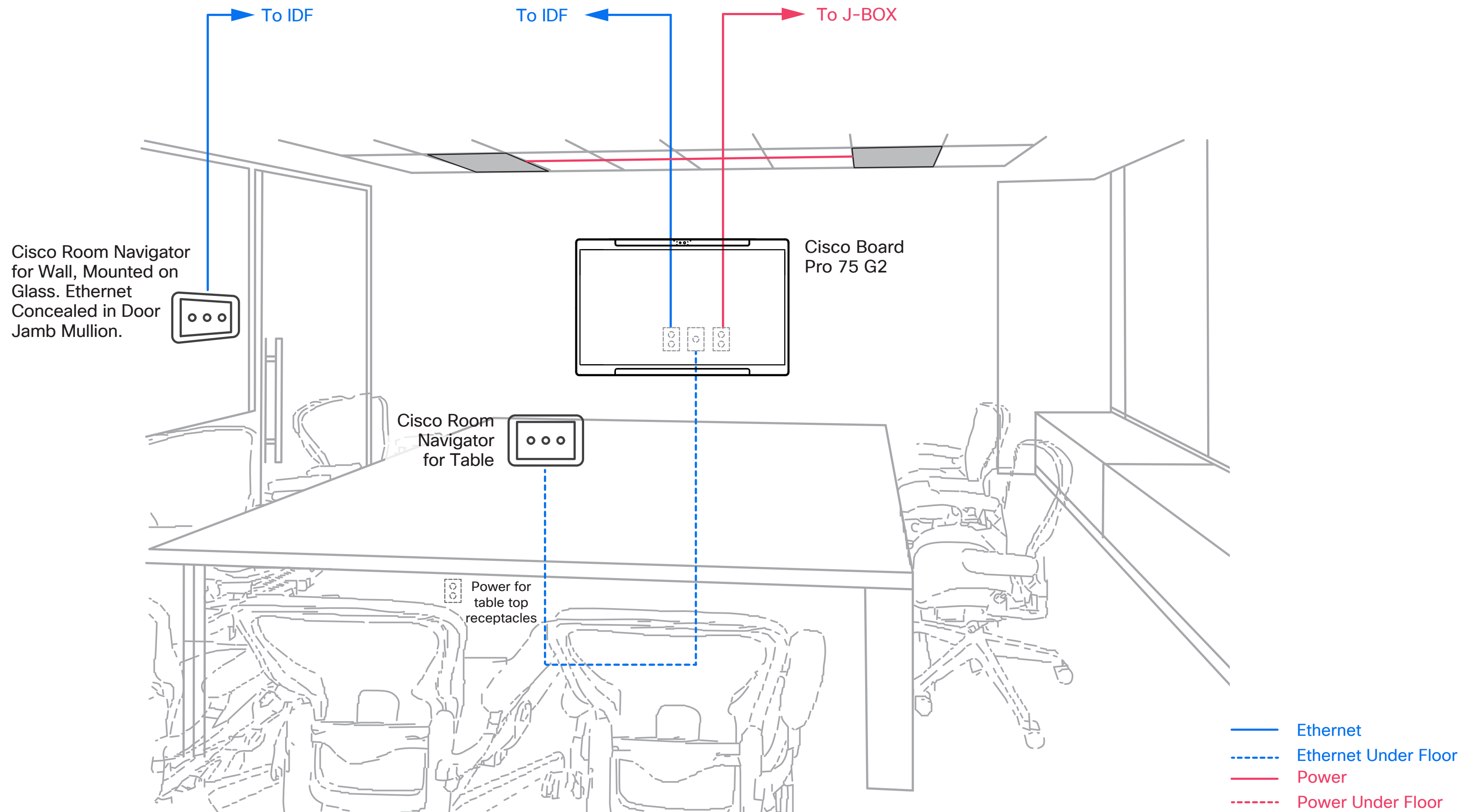
Connectivity View



Cisco Room Navigator for Wall Installation

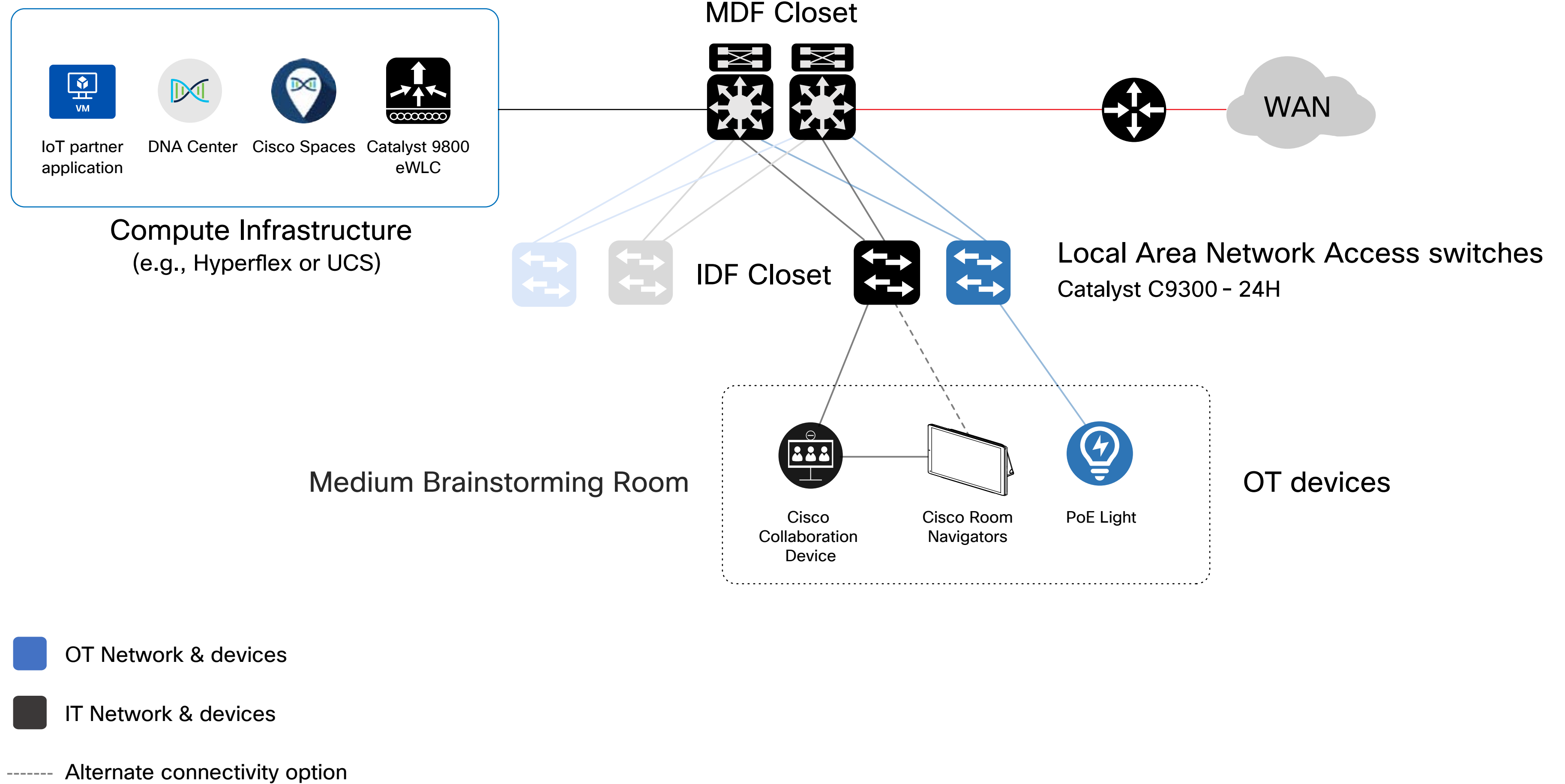
The ideal finished height to the bottom of the Cisco Room Navigator for Wall is 42" (1060 mm) AAF, which requires the ethernet cable to be located on the wall or storefront door jamb at 43" (1090 mm) AAF.

Occasionally, the Ethernet cable can be damaged as it is pulled through the wall or jamb. As a best practice, consider running a single cable from the IDF to a female RJ-45 termination jack at the top of the door frame, then run a separate cable down the wall or door frame. This approach will minimize the effort required to replace the cable if it is damaged during installation.



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)

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 mic or speakers required

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

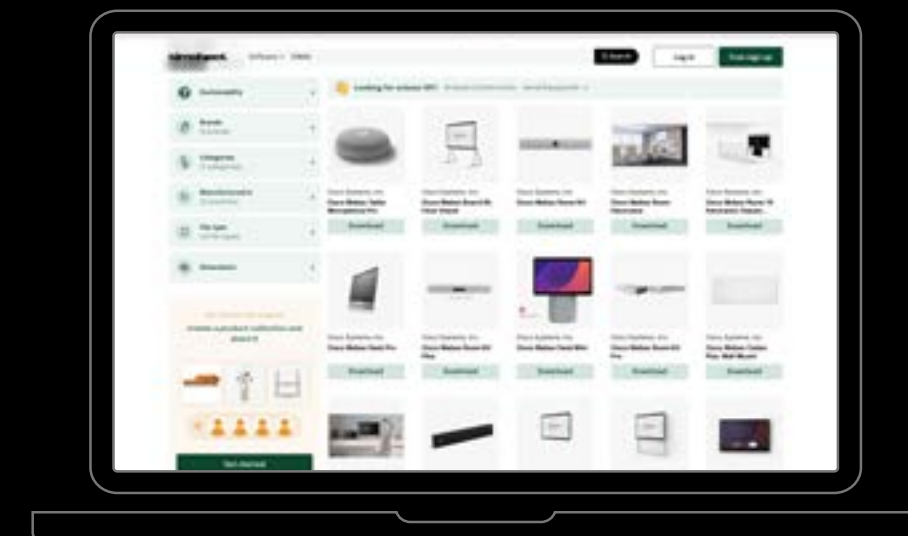


Area	Provisioning Guidelines	Commissioning Checklist	Responsibility
Room Metrics	Add customer Room Metrics macro to the device	As you enter the room, environmental metrics should be displayed in the upper right-hand corner. Additionally, a menu button should be present on both the Cisco Board Pro G2 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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