Smart Building Technology and Hybrid Work Solutions

Cisco Talent and Collaboration Centers

Small Brainstorming Space Guide

Open

Design Guide
Small Brainstorming Space

Overview and Intent

This document provides guidance on creating the Small Brainstorming Room, 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 lower 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, internal IT and facilities teams, architects and space designers, acousticians and lighting designers, 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

The Small Brainstorming Space comes in two different furniture configurations: standard height and counter or bar height. This space can be deployed both in an enclosed room or in the open plan.

Regardless of the deployment approach, the Cisco Board Pro 55 is the proper device for the space, enabling video calling, sharing of content, and whiteboarding/co-creation.

Supported Collaboration Activities

Information Sharing	✓
Brainstorming	✓
Team Building	
Decision Making	✓

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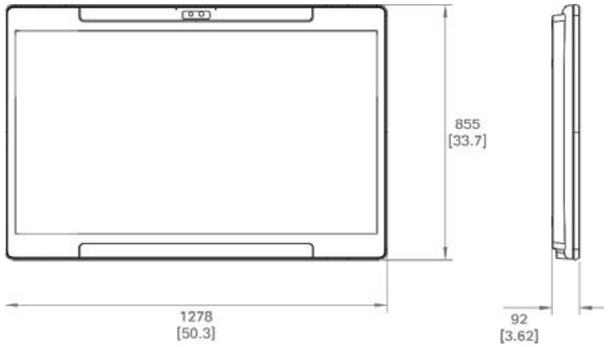
Visualization of key Cisco elements

Small Brainstorming Space

Cisco Board Pro 55

Adjustable mount recommended



Cisco Room Navigator for Wall

Optional

Cisco Room Navigator for Table

Optional

Video Device Mounting Options

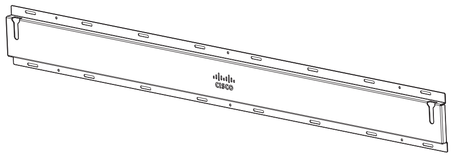
Small Brainstorming Space

Standard Height

If the wall is blocked, the optimal solution is to use a manual or electric adjustable mount, allowing end users to use the device in both a standing and seated position. If the wall is not blocked, then there are floor stand units that sit directly on the floor, and are tethered to the wall, which address this issue. If the device will only be used in a standing position, the wall mount kit from Cisco is the best solution.

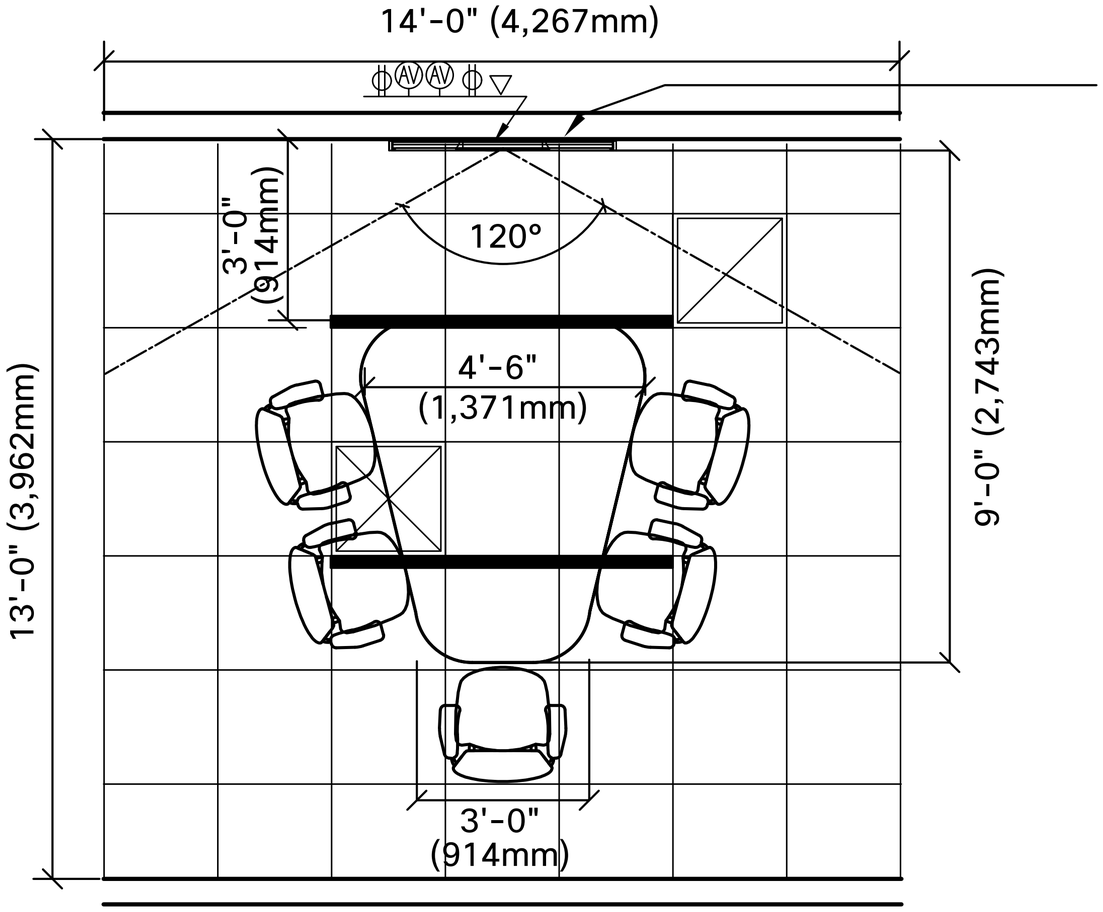
Counter and Bar Height

With a table height greater than 36” (91 cm), the best option is to mount the device directly to the wall using the Cisco Board Pro 55 Mounting Bracket. This approach requires the wall to be blocked and electrical and data to be elevated; if this is not possible, a low profile, A/V compatible credenza can be used to deploy to support the device.



Composite Plans

Small Brainstorming Space



CISCO BOARD PRO 55
DISPLAY, WALL MTD'D.
OR W/ "EZ-LIFT
(SEE ELEVATIONS)

Graphics Symbols

ACOUSTICAL CEILING
AND GRID

HVAC DIFFUSERS (T.B.D.) -
SHOWN AS EXAMPLE ONLY

LIGHT FIXTURES

LIGHT FIXTURES

FURNITURE SYSTEMS version DEVICES

DUPLEX RECEPTACLE

DATA RECEPTACLE

POWER AND COMMUNICATION

WALL / CEILING / FLOOR version DEVICES

DUPLEX RECEPTACLE

DATA RECEPTACLE

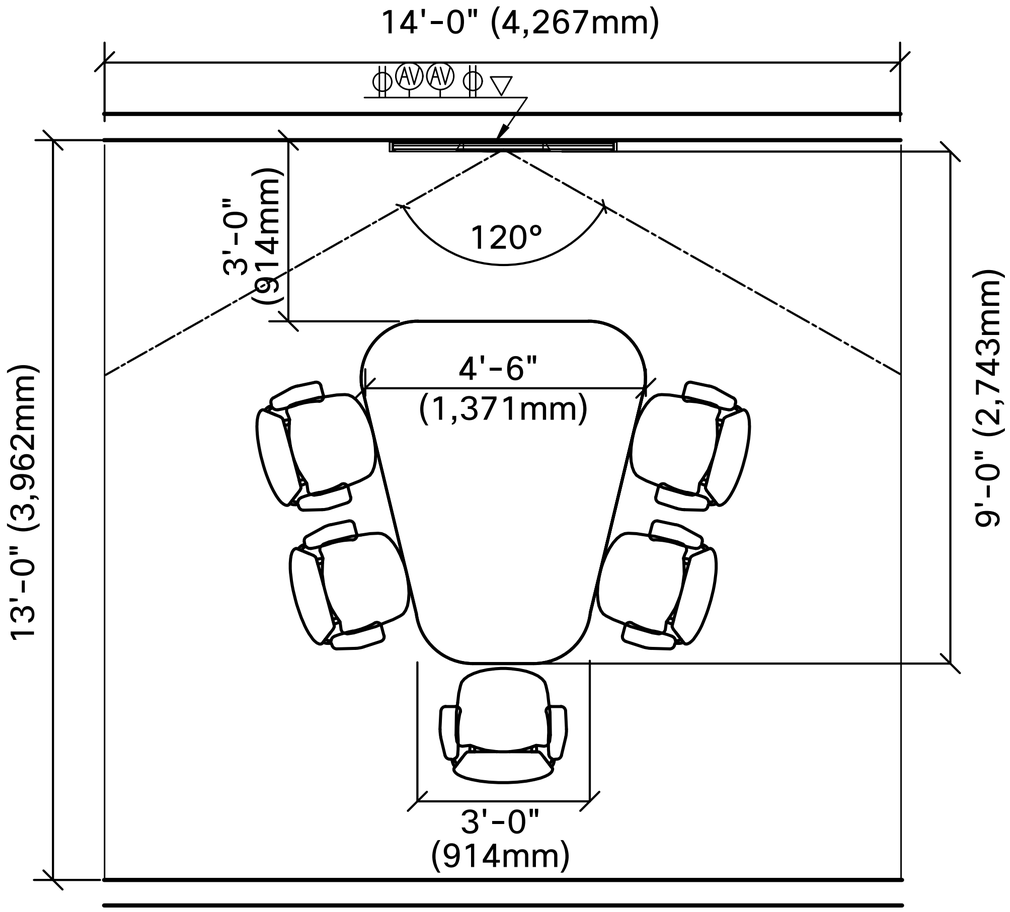
LIGHT SWITCH

AV RECEPTACLE

Room Layout

Small Brainstorming Space

The furniture shown in this design is there to indicate the scale of the space. The selection of specific furniture elements should be based on local preference and how the room is planned to be used.



Graphics Symbols

ACOUSTICAL CEILING AND GRID

HVAC DIFFUSERS (T.B.D.) - SHOWN AS EXAMPLE ONLY

LIGHT FIXTURES

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WALL / CEILING / FLOOR version DEVICES

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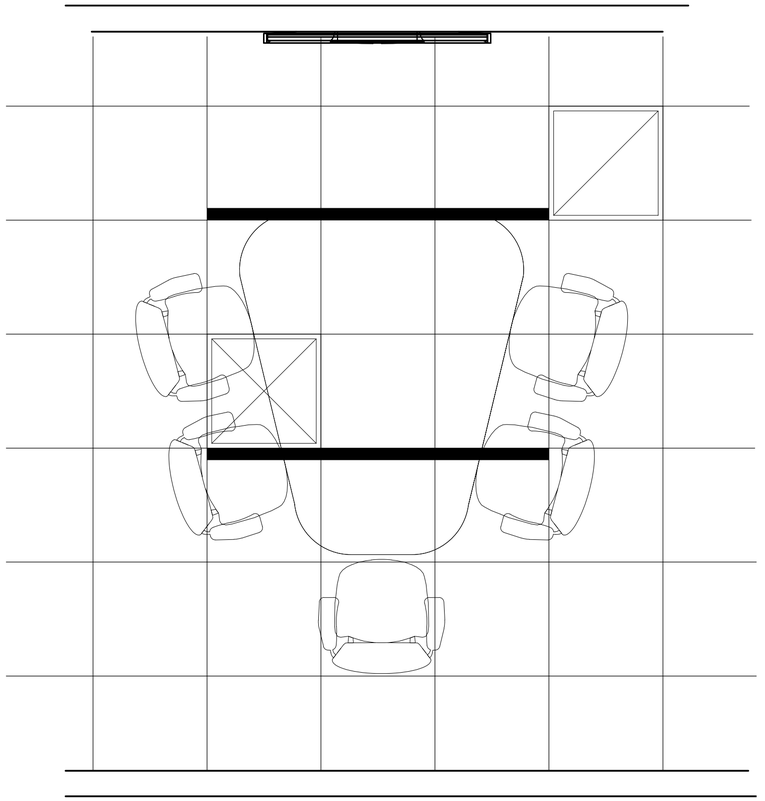
LIGHT SWITCH

AV RECEPTACLE

Reflective Ceiling Plan

Small Brainstorming Space



ACOUSTICAL CEILING AND GRID

HVAC DIFFUSERS (T.B.D.) - SHOWN AS EXAMPLE ONLY

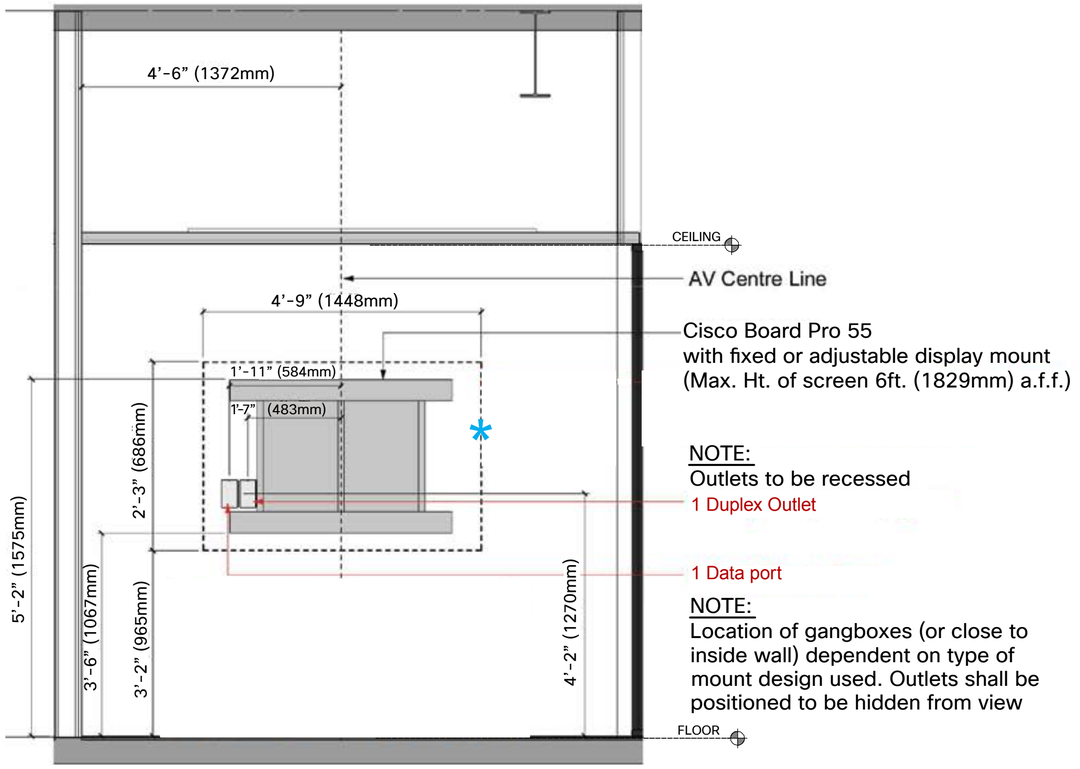
LIGHT FIXTURES

LIGHT FIXTURES

Room Elevations

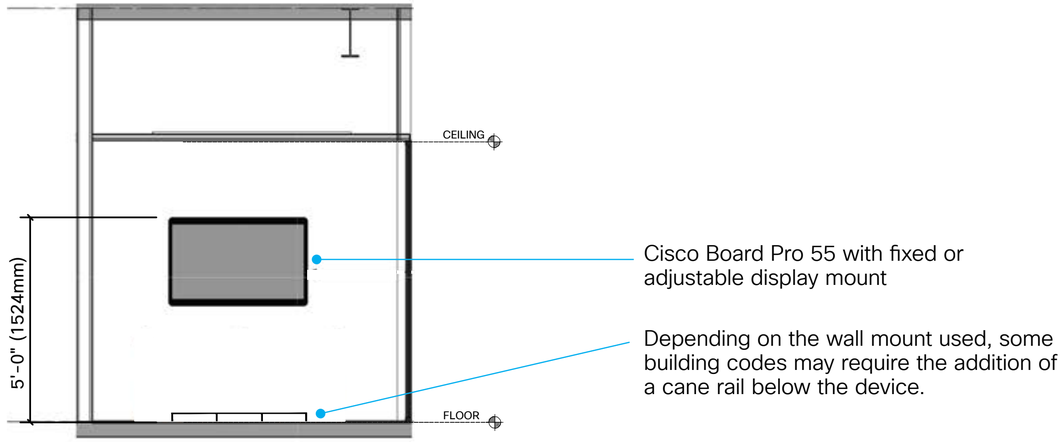
Small Brainstorming Space (Standard Height Option)

Conduit Elevation

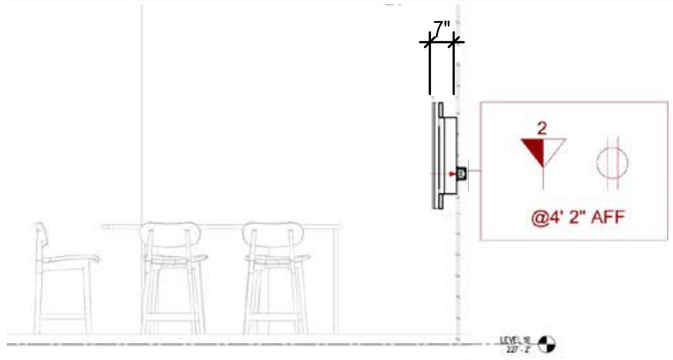


* 11-Ply (or similar approved), prior to screen installation. Steel fixings must be able to support screen specifications. Wall should be made good to match existing wall finish.

Front Elevation



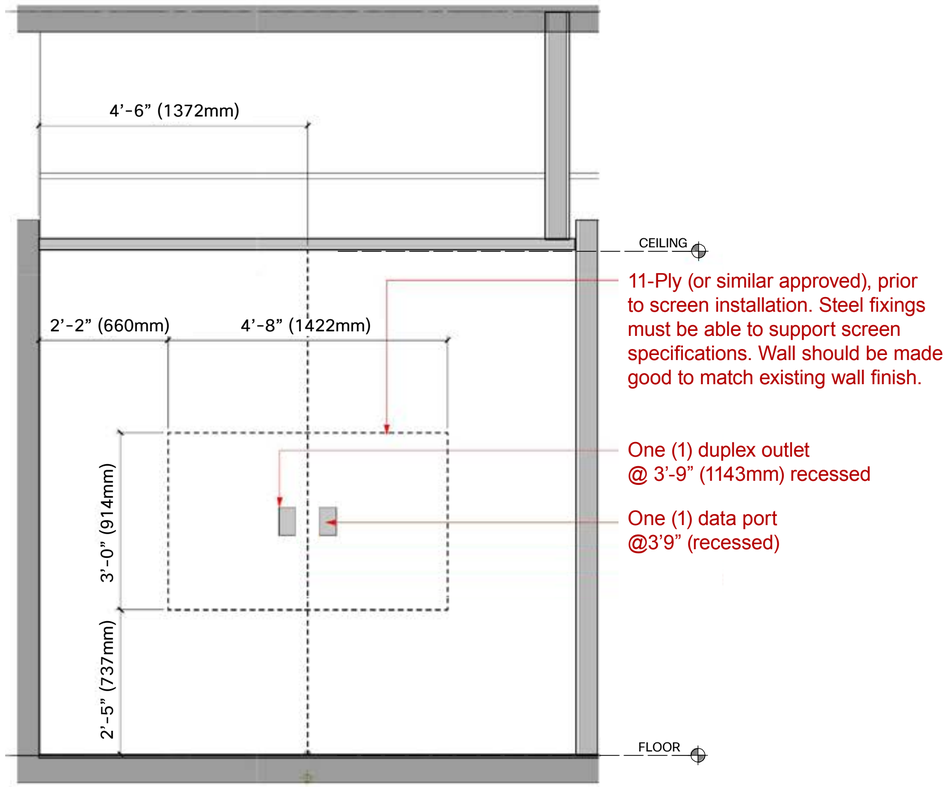
Side Elevation



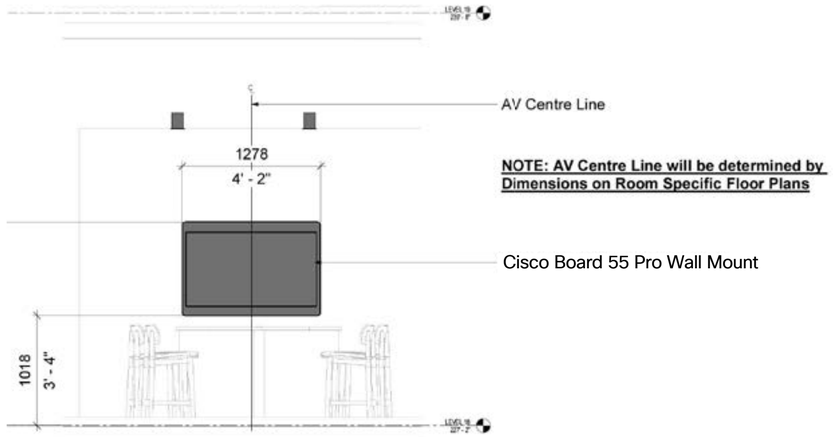
Room Elevations

Small Brainstorming Space (Bar or Counter Height Option)

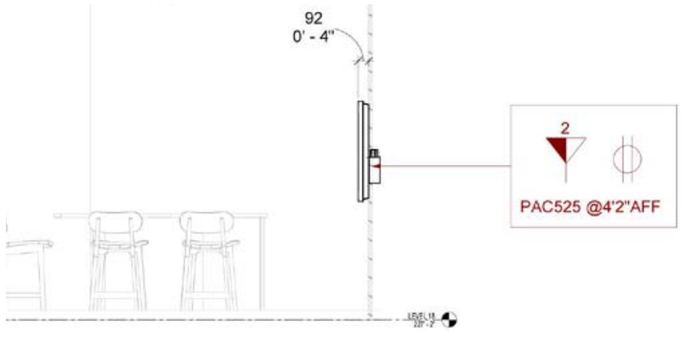
Conduit Elevation



Front Elevation

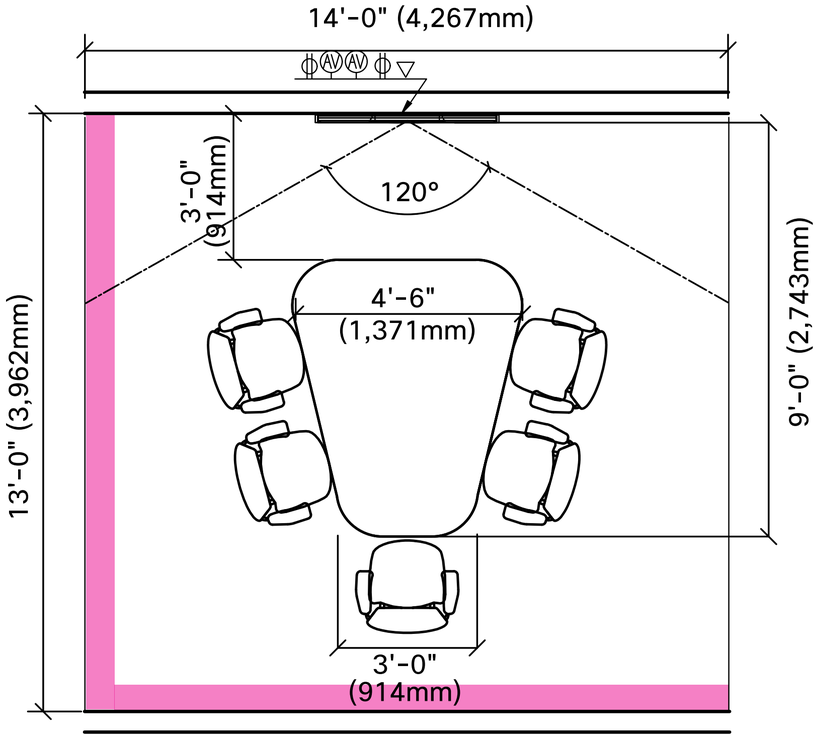


Side Elevation



Acoustical Treatment

Small Brainstorming Space



Note: Two walls of acoustical wall treatment is optimal. Preferred location, when possible, is wall opposite device and then adjoining. If the location of this space is near other individual work areas, consider the use of a third party directional speaker to minimize noise leakage into those areas.

Power & Data

Small Brainstorming Space

General Specifications

Power and data requirements need to be verified for each project. Provide video device power and 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 not be required.

Power & Data

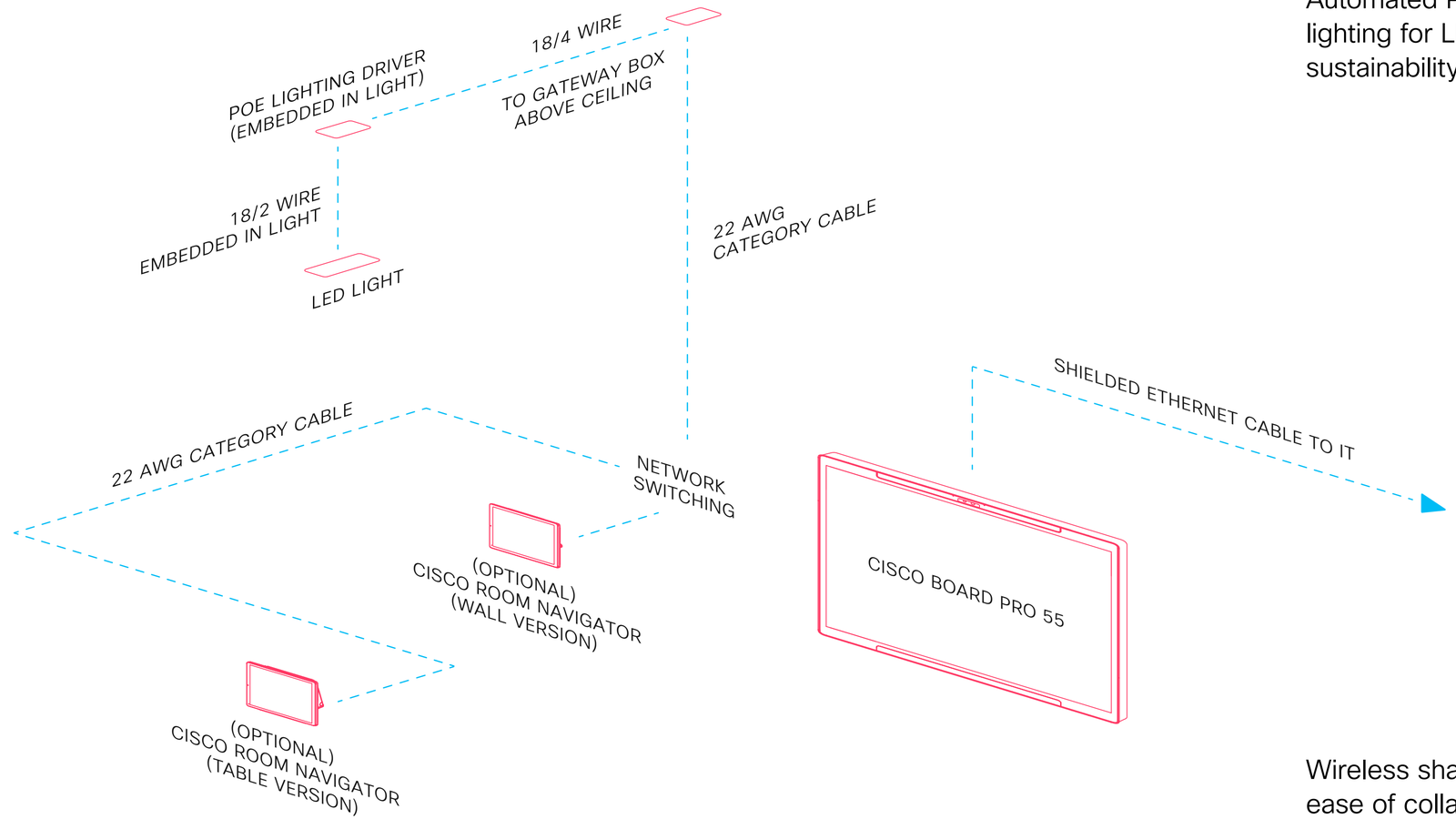
Provide one (1) data jack and one (1) dual outlet recessed on the wall behind the video devcice, location dependent on mounting option selected. Specific location should be confirmed with mounting provider.

Exploded IT Diagram

Small Brainstorming Space

Occupancy sensing for space / room booking insights and energy optimization for sustainability goals

Automated POE lighting for LEED & sustainability goals



Core drilling and conduit required if Cisco Room Navigator-Table Version is present and is wired directly to the Cisco Board Pro 55.

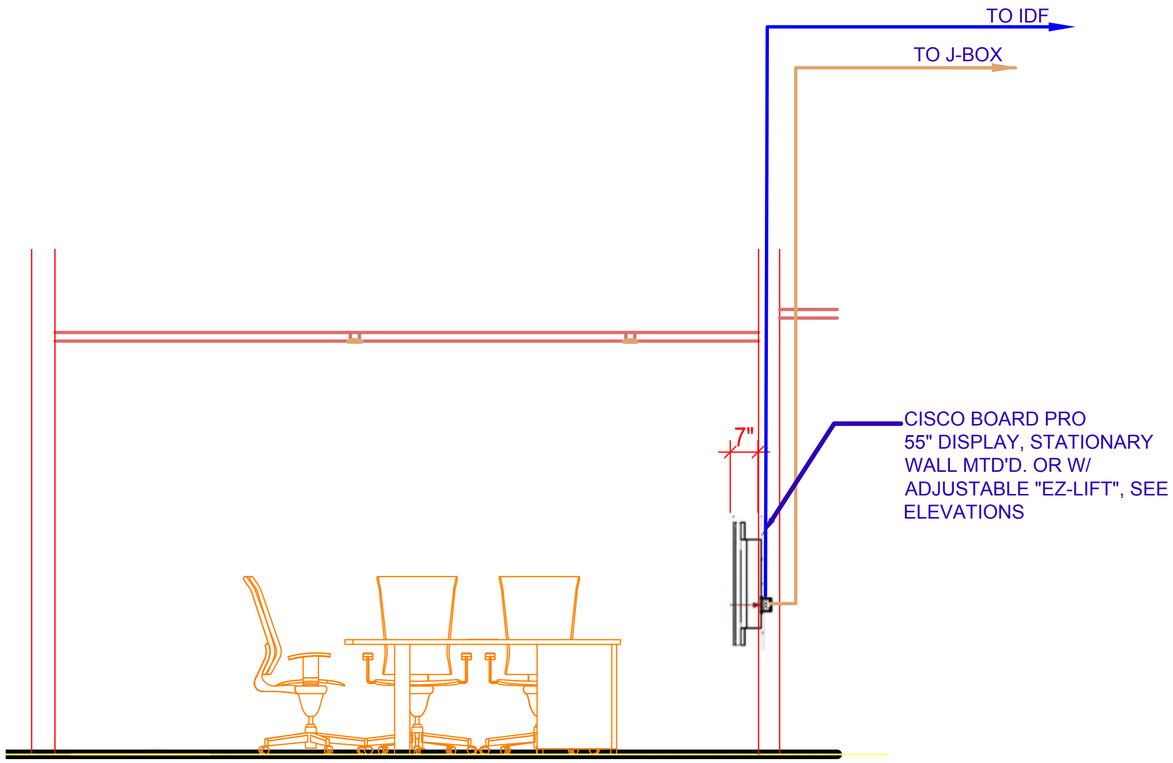
Consideration: USBC charging & convince outlets on the tabletop for occupant convenience

Wireless sharing for ease of collaboration

Connectivity View

Small Brainstorming Space

Cisco Board Pro 55

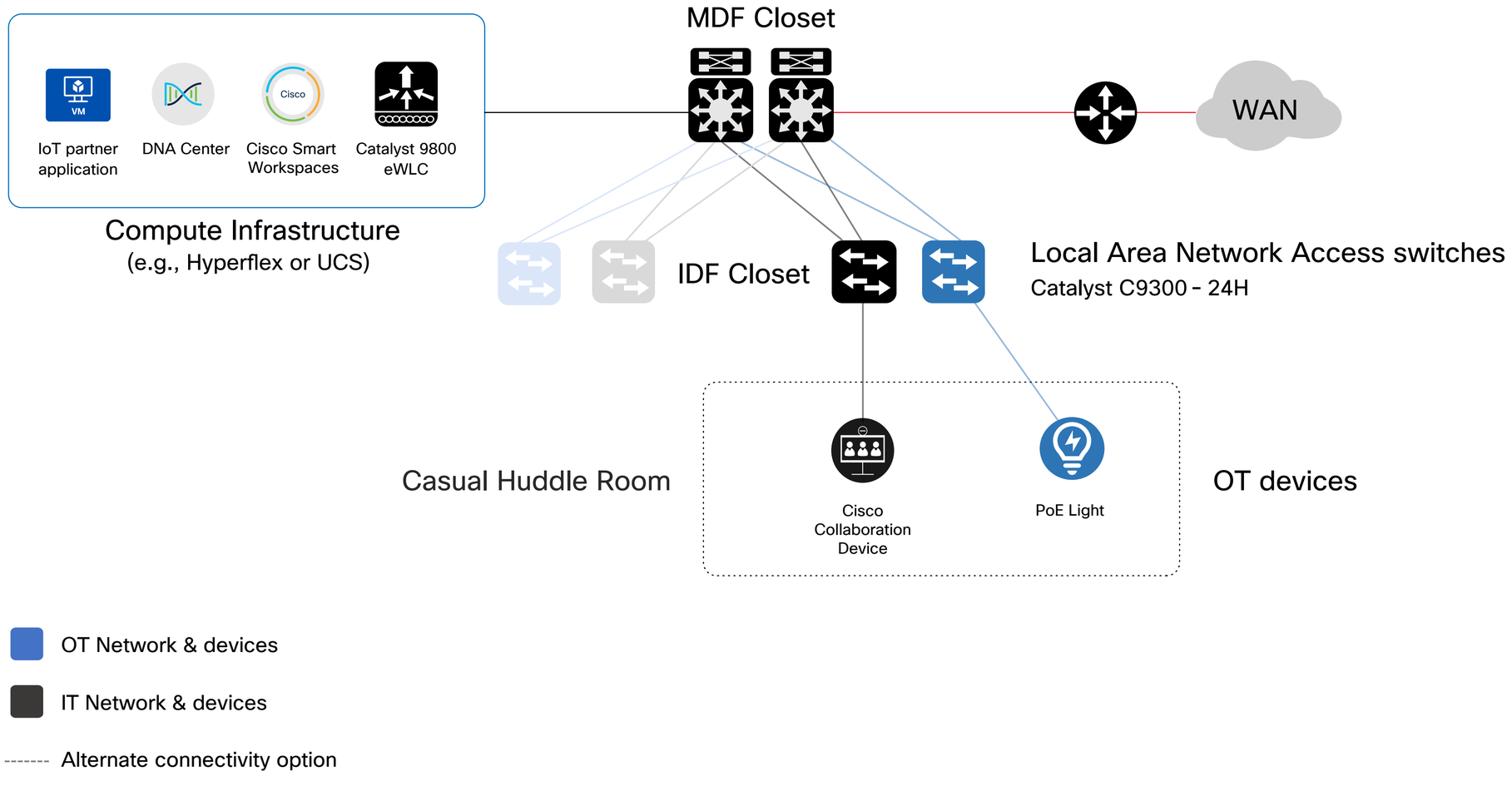


ETHERNET
POWER

IT/OT Reference Architectures

Small Brainstorming Space

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



IT/OT Bill of Material

Small Brainstorming Space

Cisco Products - Cisco Board Pro 55 Option

- **CS-BRD55P-K9** Cisco Board Pro 55
- **CS-BRD55P-WMK=** Cisco Board Pro 55 Wall Mount (for bar or counter height option)
- **CS-T10-TS-K9=** Cisco Room Navigator for Table (Optional)
- **CS-T10-WM-K9=** Cisco Room Navigator for Wall (Optional)

IOT Devices

- IAQ coming from the Cisco Board Pro 55
- Occupancy sensing is coming from the Cisco Endpoints
- Suggested lighting specifications: 220LPW raw, 140LPW delivered
- Ensure Collaboration device is not plugged into 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 (Sample)

Small Brainstorming Space

OT/Space Testing

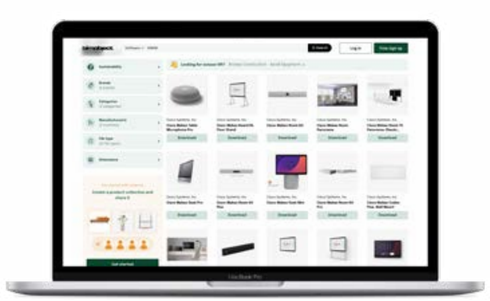
- [ ] Verify manual adjustment of lights, shades and environmentals are operational from wall controls
- [ ] Confirm lighting occupancy sensor is functional
- [ ] Check any tabletop power and data functionality
- [ ] Verify any smart buildings integrations are working properly

IT Testing

- [ ] Internet connectivity of Cisco Collaboration device
- [ ] Initiate test calls on video endpoint (or Board Pro, Webex app and voice controls)
- [ ] Validate environmental metrics are being displayed on collaboration device and Room Navigator
- [ ] Confirm help videos are loaded
- [ ] Confirm occupancy beacon function is correctly working on Cisco Room Navigator for Wall
- [ ] Verify the Cisco Smart Workspaces display is showing proper presence status

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.com

Guide: Best Practices for Creating Effective Video-enabled Rooms

Best Practices (PDF)

The intent of this document is to highlight the details, components and partners used in the creation of a Medium Brainstorming Room. Any reference herein to any specific commercial products or service does not necessarily constitute or imply its endorsement or recommendation.

Version 8 (January 4, 2024)