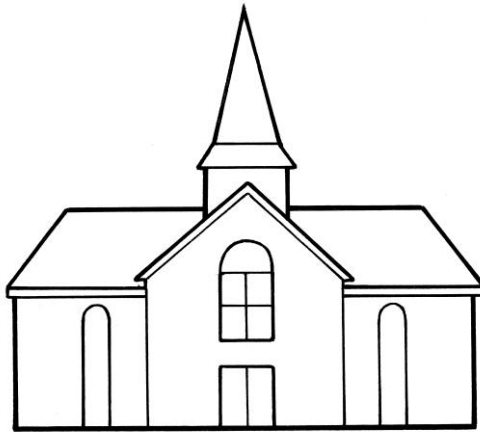


MTG - Standard Plan - Stevens - AP Placement Report v.2

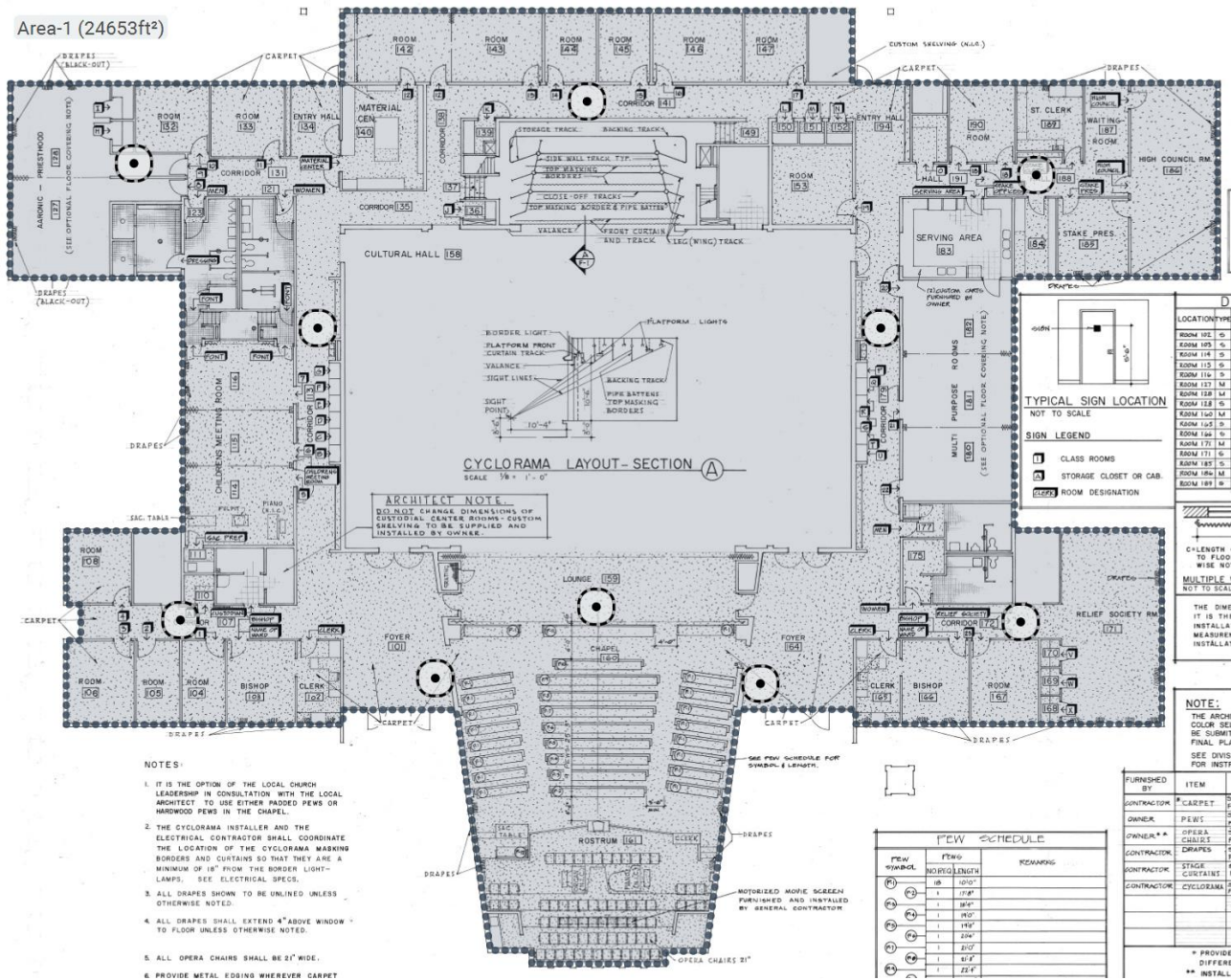


v.2 Completed by: **Jon Loutensock**
v.2 Completion date: 12/10/2025

Project description
<p>The AP placement and signal strength predictions are based on assumptions made for signal propagation through interior wall materials. Based on those assumptions there will be a greater margin of error between the prediction and what may be experienced.</p> <p>Interior wall material was set as hollow block (cinder block).</p> <p>Without measured attenuation and AP signal deviation measurements, the actual signal propagation will vary.</p> <p>The AP placement was made based on optimizing 5 GHz signals for primary signal strength. Secondary coverage was not a requirement.</p> <p>The CW9172I access point is represented in this prediction.</p> <p>v.2 – Per request and to provide coverage to the rostrum in the chapel, an access point was added to the overflow area.</p>

Stevens - Standard Plan A - Furn Plan

Survey routes and Access Points for Stevens - Standard Plan A - Furn Plan



View as / Project Offset:

Mobile Device

Area-1 (24,653 ft²)

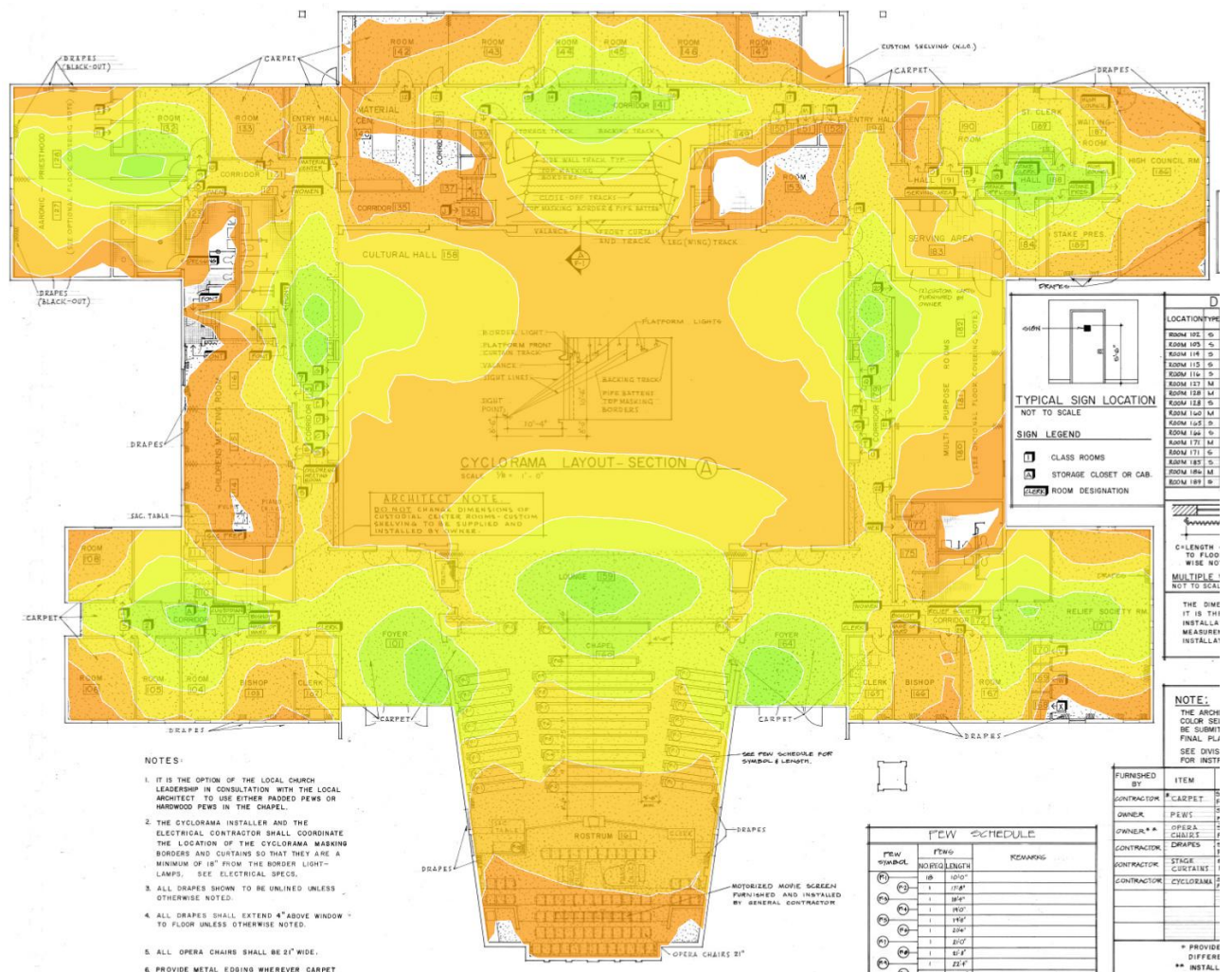
Coverage Requirement: Ekahau Best Practices		
2.4 GHz	Signal Strength Min	-67.0 dBm
	Signal-to-Noise Ratio Min	20.0 dB
	Data Rate Min	24 Mbps
	Channel Interference Max	2 at min. -85.0 dBm
	Round Trip Time (RTT) Max	200 ms

MTG - Standard Plan - Stevens - AP Placement Report v.2

	Packet Loss Max	0.0 %
5 GHz	Signal Strength Min	-67.0 dBm
	Secondary Signal Strength Min	-67.0 dBm
	Signal-to-Noise Ratio Min	25.0 dB
	Data Rate Min	24 Mbps
	Channel Interference Max	1 at min. -85.0 dBm
	Round Trip Time (RTT) Max	200 ms
	Packet Loss Max	0.0 %
6 GHz	Signal Strength Min	-67.0 dBm
	Secondary Signal Strength Min	-67.0 dBm
	Signal-to-Noise Ratio Min	25.0 dB
	Data Rate Min	24 Mbps
	Channel Interference Max	1 at min. -85.0 dBm
	Round Trip Time (RTT) Max	200 ms
	Packet Loss Max	0.0 %
Capacity Requirement	No capacity devices for this area	
Notes		

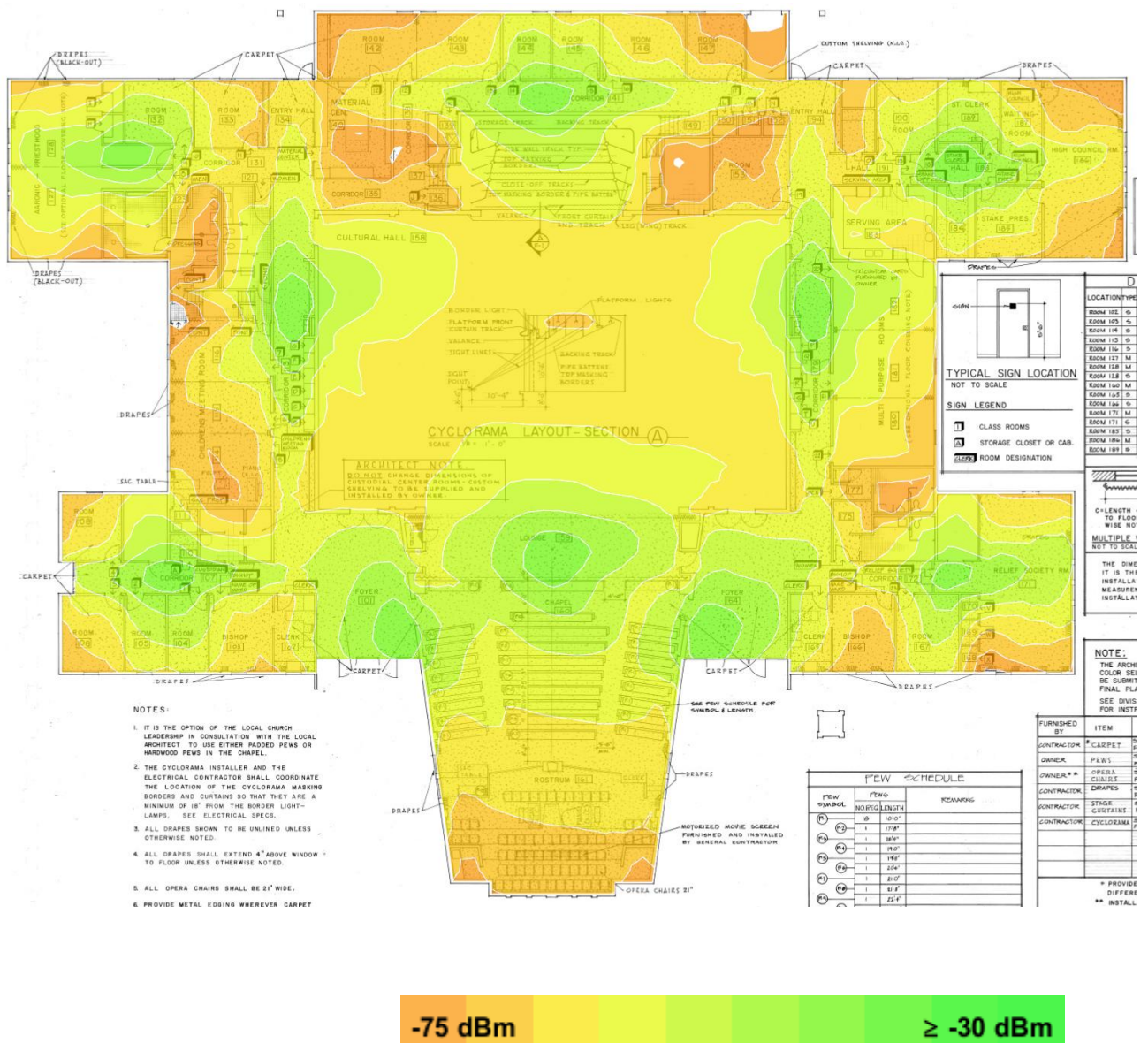
Signal Strength for Stevens - Standard Plan A - Furn Plan on 2.4 GHz band

Signal Strength - sometimes called coverage - is the most basic requirement for a wireless network. As a general guideline, low signal strength means unreliable connections, and low data throughput.



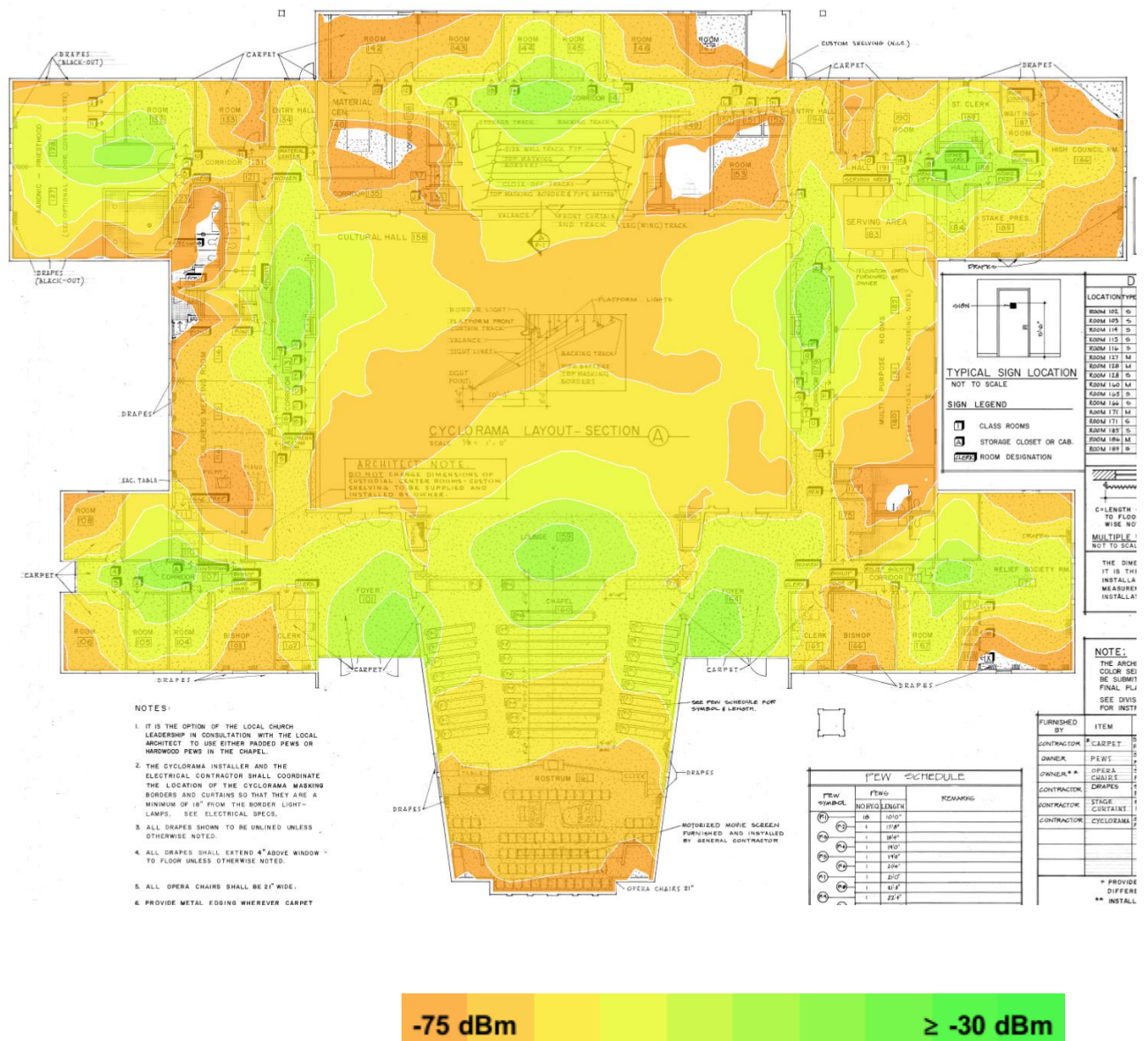
Signal Strength for Stevens - Standard Plan A - Furn Plan on 5 GHz band

Signal Strength - sometimes called coverage - is the most basic requirement for a wireless network. As a general guideline, low signal strength means unreliable connections, and low data throughput.

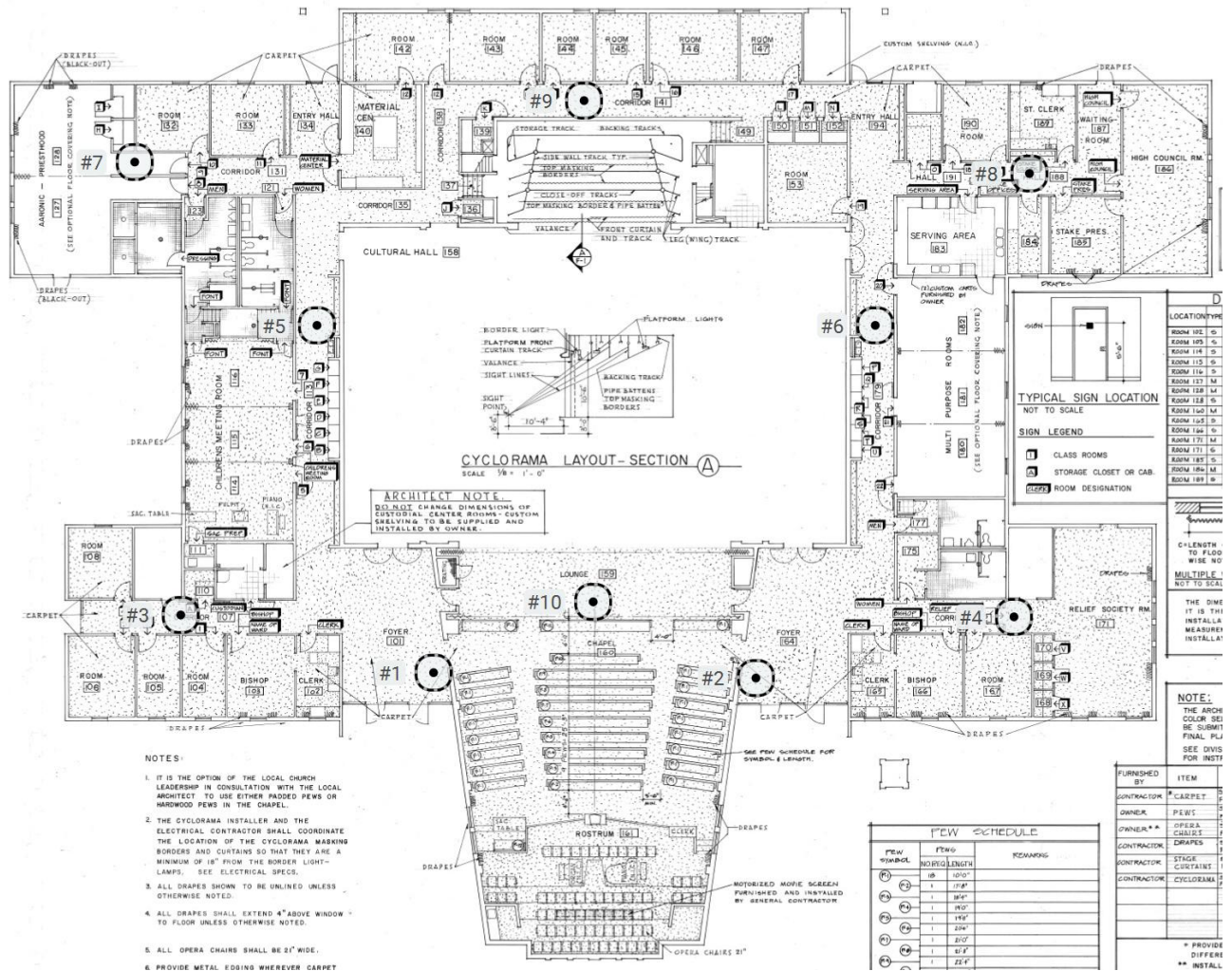


Signal Strength for Stevens - Standard Plan A - Furn Plan on 6 GHz band

Signal Strength - sometimes called coverage - is the most basic requirement for a wireless network. As a general guideline, low signal strength means unreliable connections, and low data throughput.



Access Points on Stevens - Standard Plan A - Furn Plan



Access Points on Stevens - Standard Plan A - Furn Plan

Simulated Access Points on Stevens - Standard Plan A - Furn Plan

AP #	Access Point			
1	Simulated AP-001		Cisco CW9172I	
	Wi-Fi 7	1	14 mW	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	25 mW	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	25 mW	Cisco CW9172I 6GHz
	Bluetooth	-	1 mW	Cisco CW9172I BLE
2	Simulated AP-002		Cisco CW9172I	
	Wi-Fi 7	1	14 mW	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	25 mW	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	25 mW	Cisco CW9172I 6GHz
	Bluetooth	-	1 mW	Cisco CW9172I BLE
3	Simulated AP-003		Cisco CW9172I	
	Wi-Fi 7	1	14 mW	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	25 mW	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	25 mW	Cisco CW9172I 6GHz
	Bluetooth	-	1 mW	Cisco CW9172I BLE
4	Simulated AP-004		Cisco CW9172I	
	Wi-Fi 7	1	14 mW	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	25 mW	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	25 mW	Cisco CW9172I 6GHz
	Bluetooth	-	1 mW	Cisco CW9172I BLE
5	Simulated AP-005		Cisco CW9172I	
	Wi-Fi 7	1	14 mW	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	25 mW	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	25 mW	Cisco CW9172I 6GHz

MTG - Standard Plan - Stevens - AP Placement Report v.2

	Bluetooth	-	1 mW	Cisco CW9172I BLE
6	Simulated AP-006		Cisco CW9172I	
	Wi-Fi 7	1	14 mW	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	25 mW	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	25 mW	Cisco CW9172I 6GHz
	Bluetooth	-	1 mW	Cisco CW9172I BLE
7	Simulated AP-007		Cisco CW9172I	
	Wi-Fi 7	1	14 mW	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	25 mW	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	25 mW	Cisco CW9172I 6GHz
	Bluetooth	-	1 mW	Cisco CW9172I BLE
8	Simulated AP-008		Cisco CW9172I	
	Wi-Fi 7	1	14 mW	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	25 mW	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	25 mW	Cisco CW9172I 6GHz
	Bluetooth	-	1 mW	Cisco CW9172I BLE
9	Simulated AP-009		Cisco CW9172I	
	Wi-Fi 7	1	14 mW	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	25 mW	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	25 mW	Cisco CW9172I 6GHz
	Bluetooth	-	1 mW	Cisco CW9172I BLE
10	Simulated AP-010		Cisco CW9172I	
	Wi-Fi 7	1	14 mW	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	25 mW	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	25 mW	Cisco CW9172I 6GHz
	Bluetooth	-	1 mW	Cisco CW9172I BLE