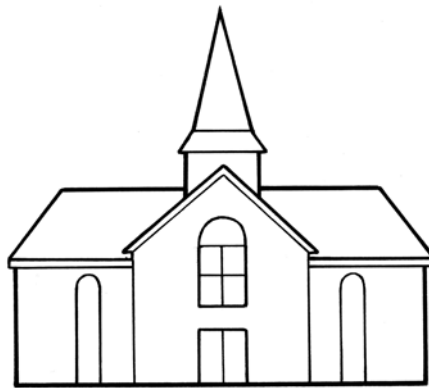


# Dalton Meetinghouse Standard Plan AP Placement Report



Completed by: **Jon Loutensock**  
Completion date: 09/08/2025

## Dalton Meetinghouse Standard Plan AP Placement Report

### Project description

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.

Interior wall material was set as hollow block (cinderblock).

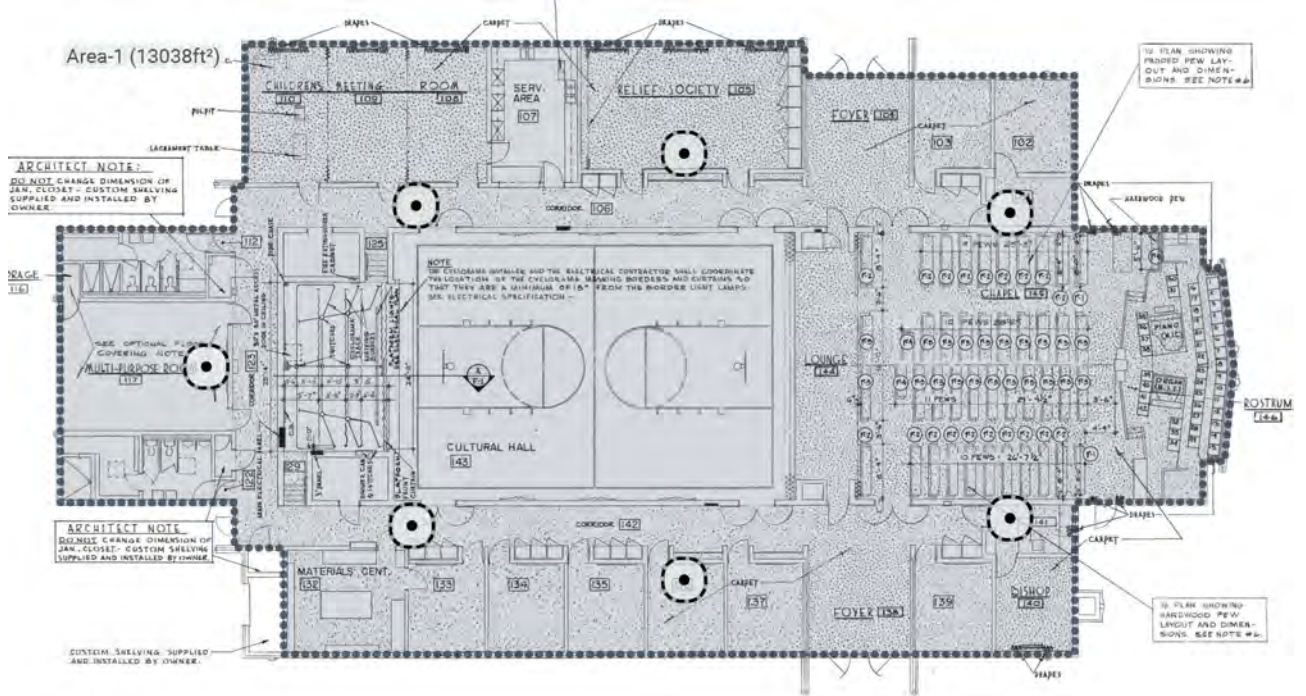
Without measured attenuation and AP signal deviation measurements, the actual signal propagation will vary.

The AP placement was made based on optimizing 5 GHz signals for primary signal strength. Secondary coverage was not a requirement.

The C9172I access point is represented in this prediction.

# Dalton Meetinghouse Floor Plan

## Survey routes and Access Points for Dalton Meetinghouse Floor Plan



View as / Project Offset:	Mobile Device
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### Area-1 (13,038 ft²)

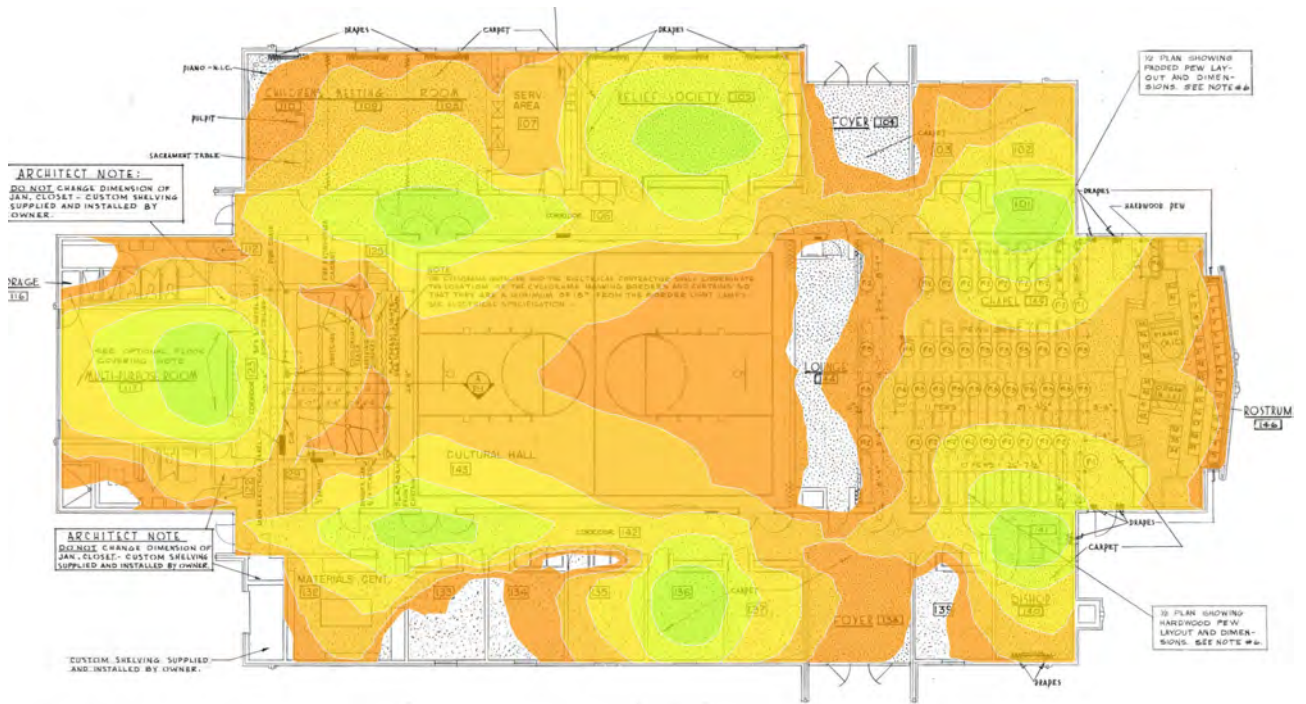
Coverage Requirement: <b>Ekahau Best Practices</b>	
<b>2.4 GHz</b>	Signal Strength Min <b>-67.0 dBm</b>
	Signal-to-Noise Ratio Min <b>20.0 dB</b>
	Data Rate Min <b>24 Mbps</b>
	Channel Interference Max <b>2 at min. -85.0 dBm</b>
	Round Trip Time (RTT) Max <b>200 ms</b>
	Packet Loss Max <b>0.0 %</b>
<b>5 GHz</b>	Signal Strength Min <b>-67.0 dBm</b>
	Secondary Signal Strength Min <b>-67.0 dBm</b>
	Signal-to-Noise Ratio Min <b>25.0 dB</b>
	Data Rate Min <b>24 Mbps</b>

## Dalton Meetinghouse Standard Plan AP Placement Report

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

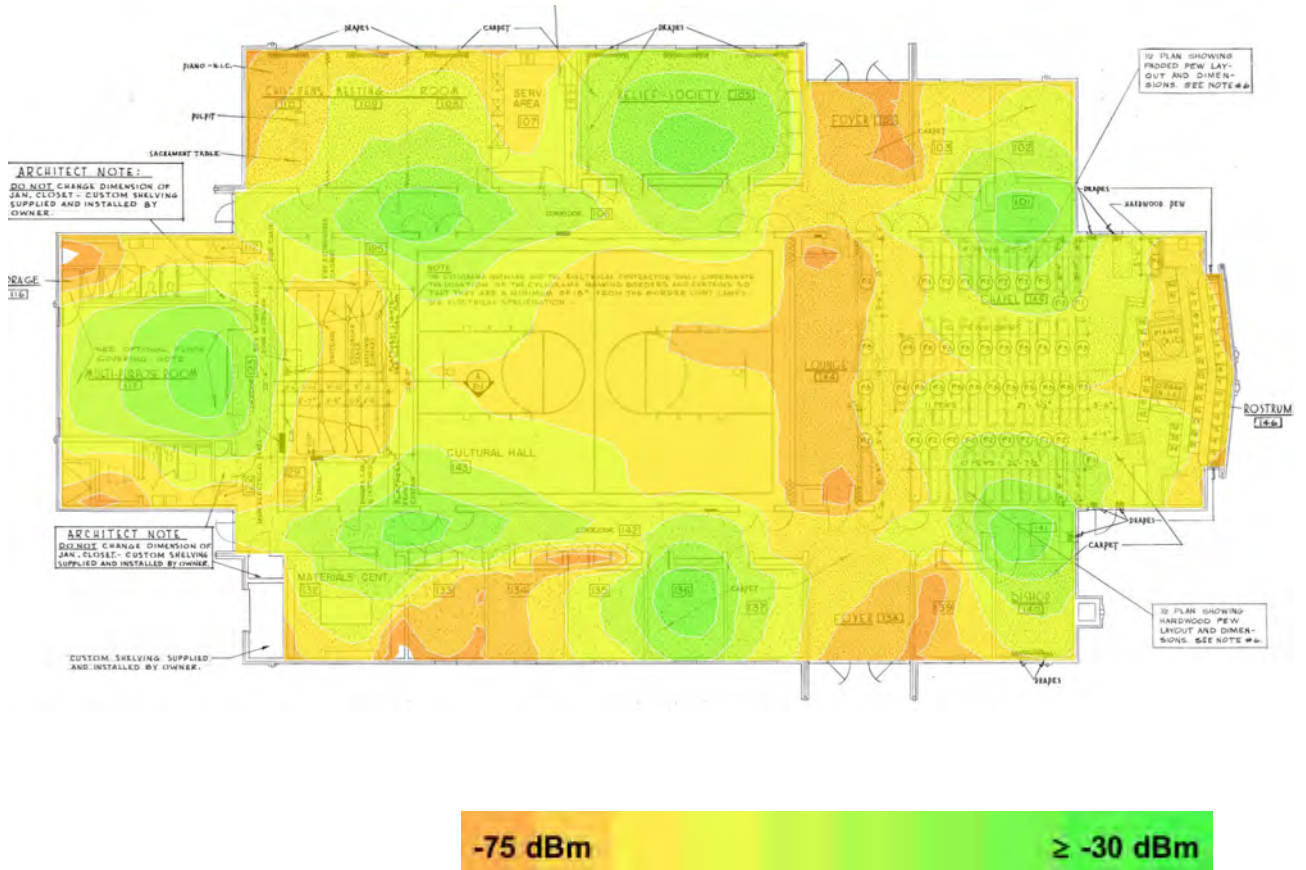
## Signal Strength for Dalton Meetinghouse Floor Plan on 2.4 GHz band

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 Dalton Meetinghouse Floor Plan on 5 GHz band

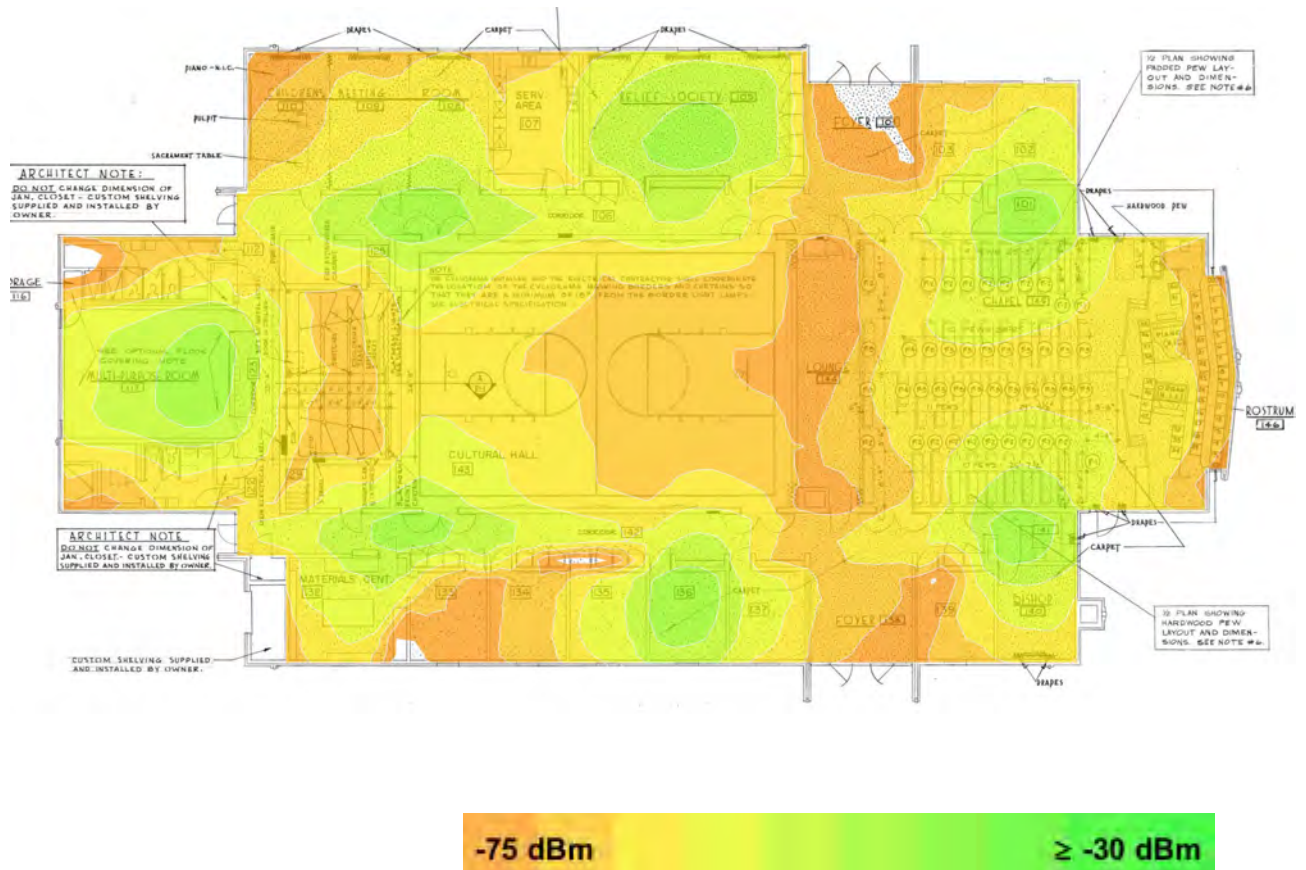
Signal Strength - sometimes called coverage - is the most basic requirement for a wireless network. As a general guideline, low signal strength means unreliable connections, and low data throughput.



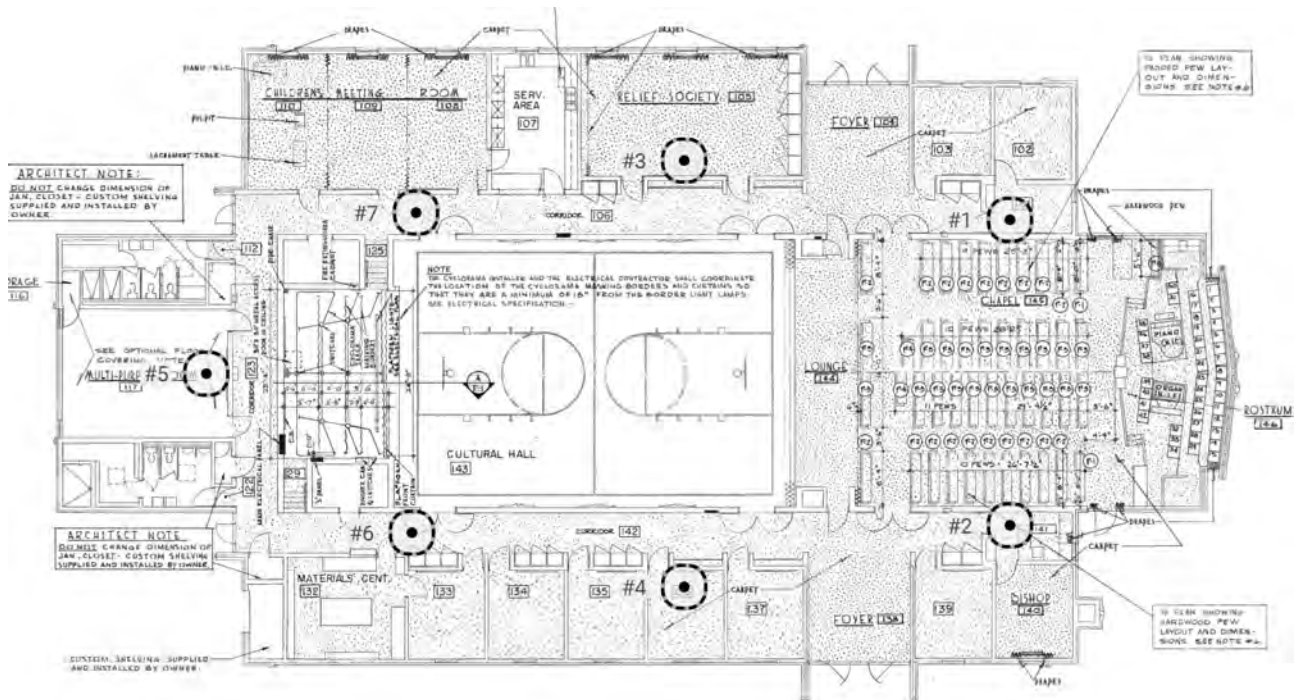


### Signal Strength for Dalton Meetinghouse Floor Plan on 6 GHz band

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 Dalton Meetinghouse Floor Plan



## Access Points on Dalton Meetinghouse Floor Plan

### Simulated Access Points on Dalton Meetinghouse Floor Plan

AP #	Access Point			
1	Simulated AP-001		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
2	Simulated AP-002		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE



## Dalton Meetinghouse Standard Plan AP Placement Report

3	Simulated AP-003		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
4	Simulated AP-004		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
5	Simulated AP-005		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
6	Simulated AP-006		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE
7	Simulated AP-007		Cisco CW9172I	
	Wi-Fi 7	1	8.0 dBm	Cisco CW9172I 2.4GHz
	Wi-Fi 7	36	14.0 dBm	Cisco CW9172I 5GHz
	Wi-Fi 7	1@80 (6 GHz)	14.0 dBm	Cisco CW9172I 6GHz
	Bluetooth	-	0.0 dBm	Cisco CW9172I BLE