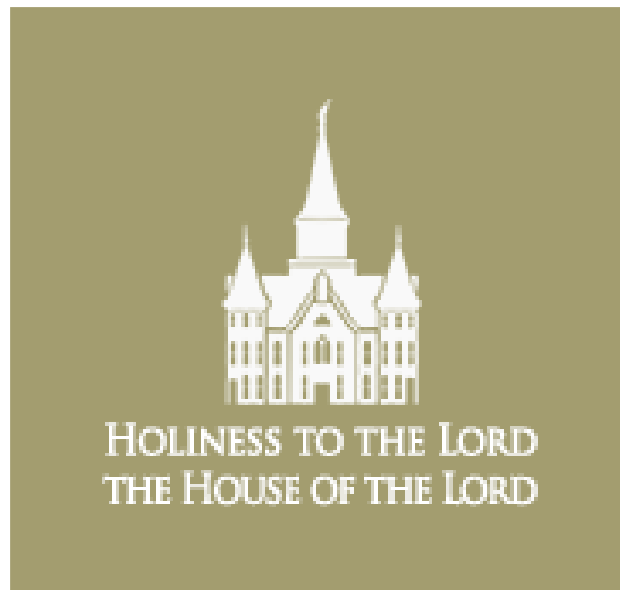


Beaumont Meetinghouse AP Placement Report Version 2



Created By: Taylor Mertlich, CompuNet

Reviewed By: Kevin Spencer

Completion Date: 02/03/2025

Review Date: 02/10/2025

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.

The AP placement was made based on optimizing for 5 GHz signals for both primary and secondary signal strength.

The APs will be assigned a channel for both 2.4 GHz and 5 GHz based on what is detected and reported to the controller. The controller manages channel adjustments as information is reported by each AP.

The Meraki MR36 and MR36H access points are represented in this prediction.

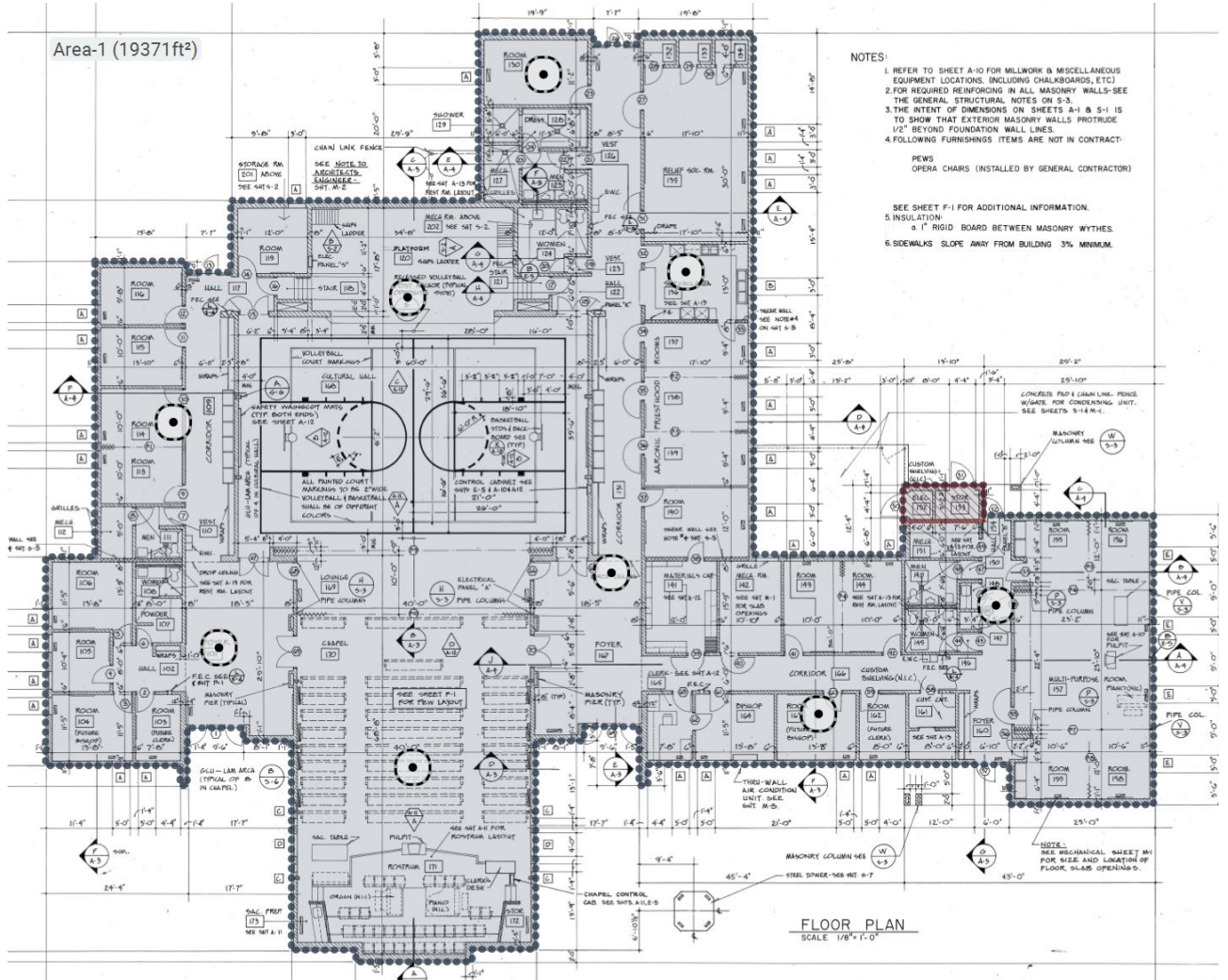
Without measured attenuation and AP signal deviation measurements, the actual signal propagation will vary.

Version 2:

Shifted several APs and placed 1 in the chape. Total AP count remained at 9.

Beaumont

Survey routes and Access Points for Beaumont



View as / Project Offset:	Generic Laptop (-3 dB/-3 dB/-)
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Area-1 (19,371 ft²)

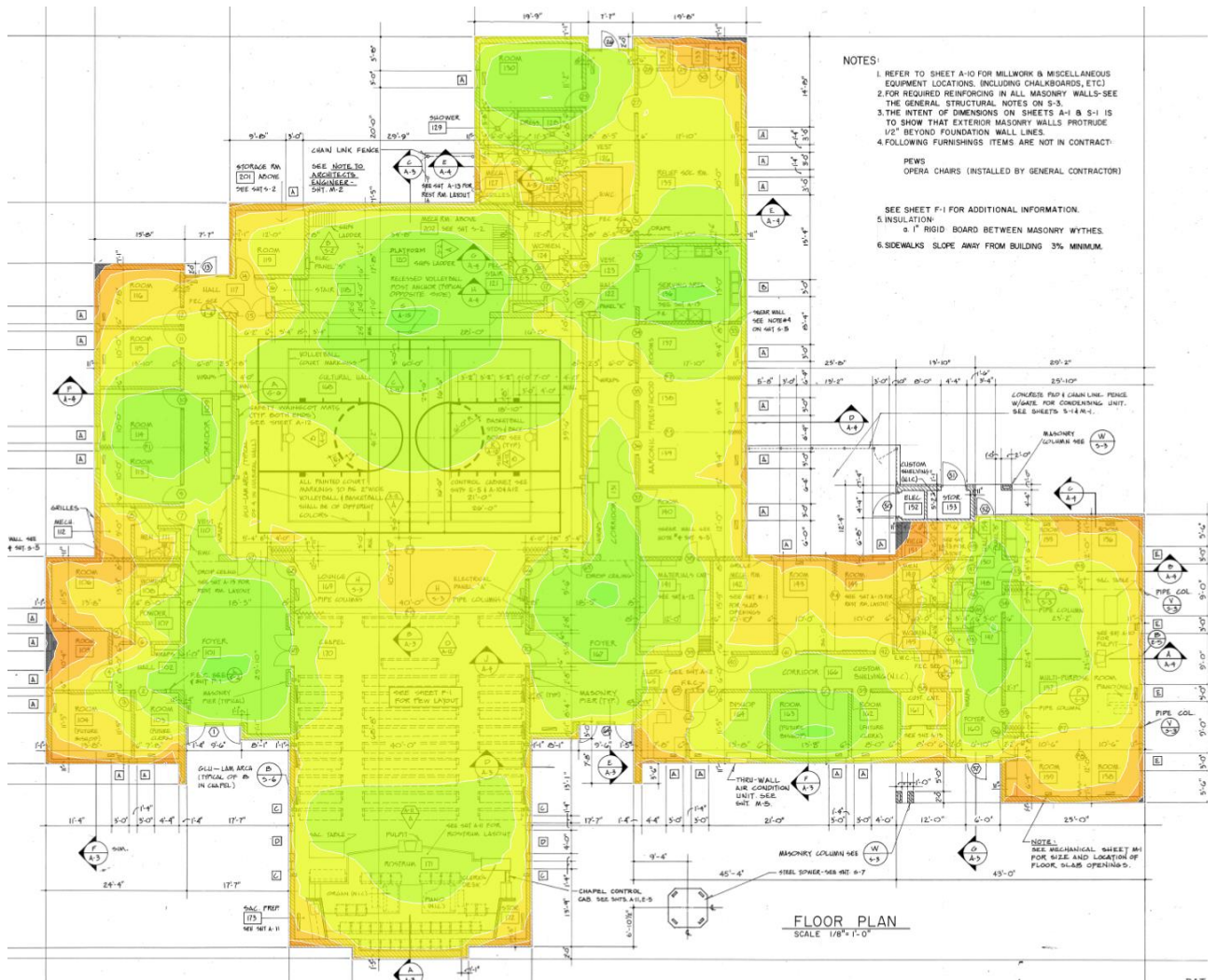
Coverage Requirement: Ekahau Best Practices	
2.4 GHz	Signal Strength Min -75.0 dBm
	Secondary Signal Strength Min -75.0 dBm
	Signal-to-Noise Ratio Min 20.0 dB
	Data Rate Min 24 Mbps
	Channel Interference Max 2 at min. -85.0 dBm

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	Round Trip Time (RTT) Max	200 ms
	Packet Loss Max	0.0 %
5 GHz	Signal Strength Min	-75.0 dBm
	Secondary Signal Strength Min	-75.0 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	-75.0 dBm
	Secondary Signal Strength Min	-75.0 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		

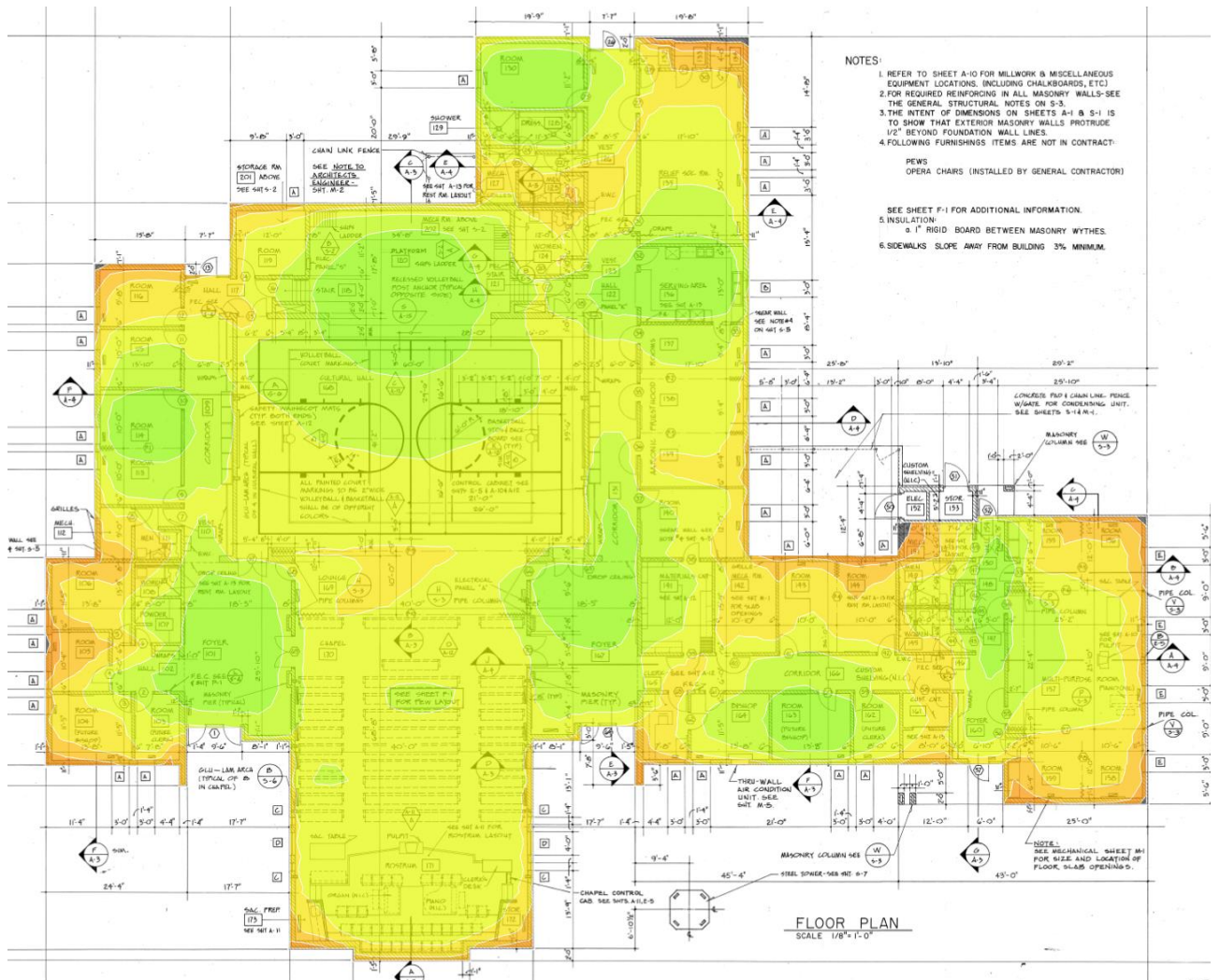
Signal Strength for Beaumont on 2.4 GHz band

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.



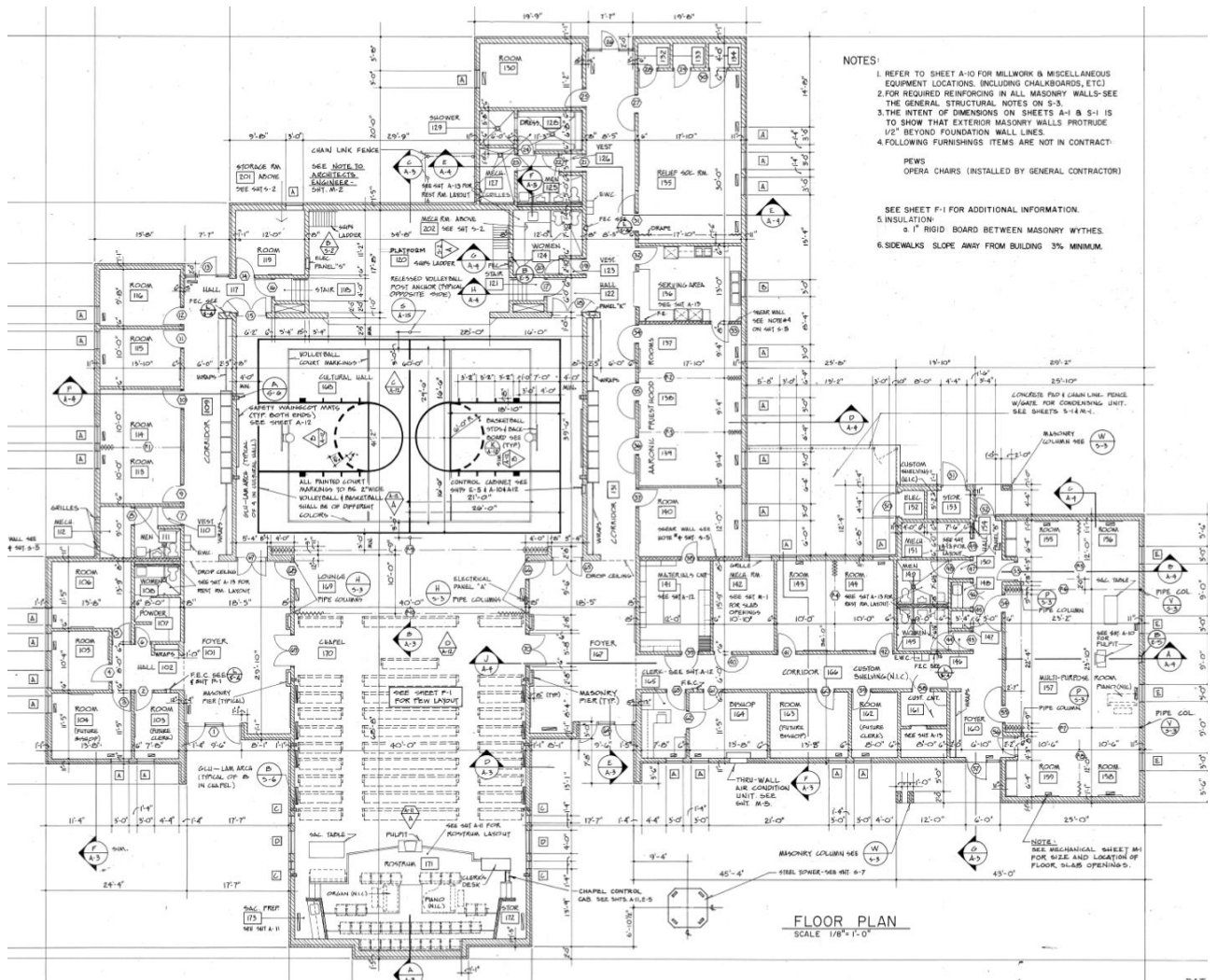
Signal Strength for Beaumont on 5 GHz band

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 Beaumont 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.

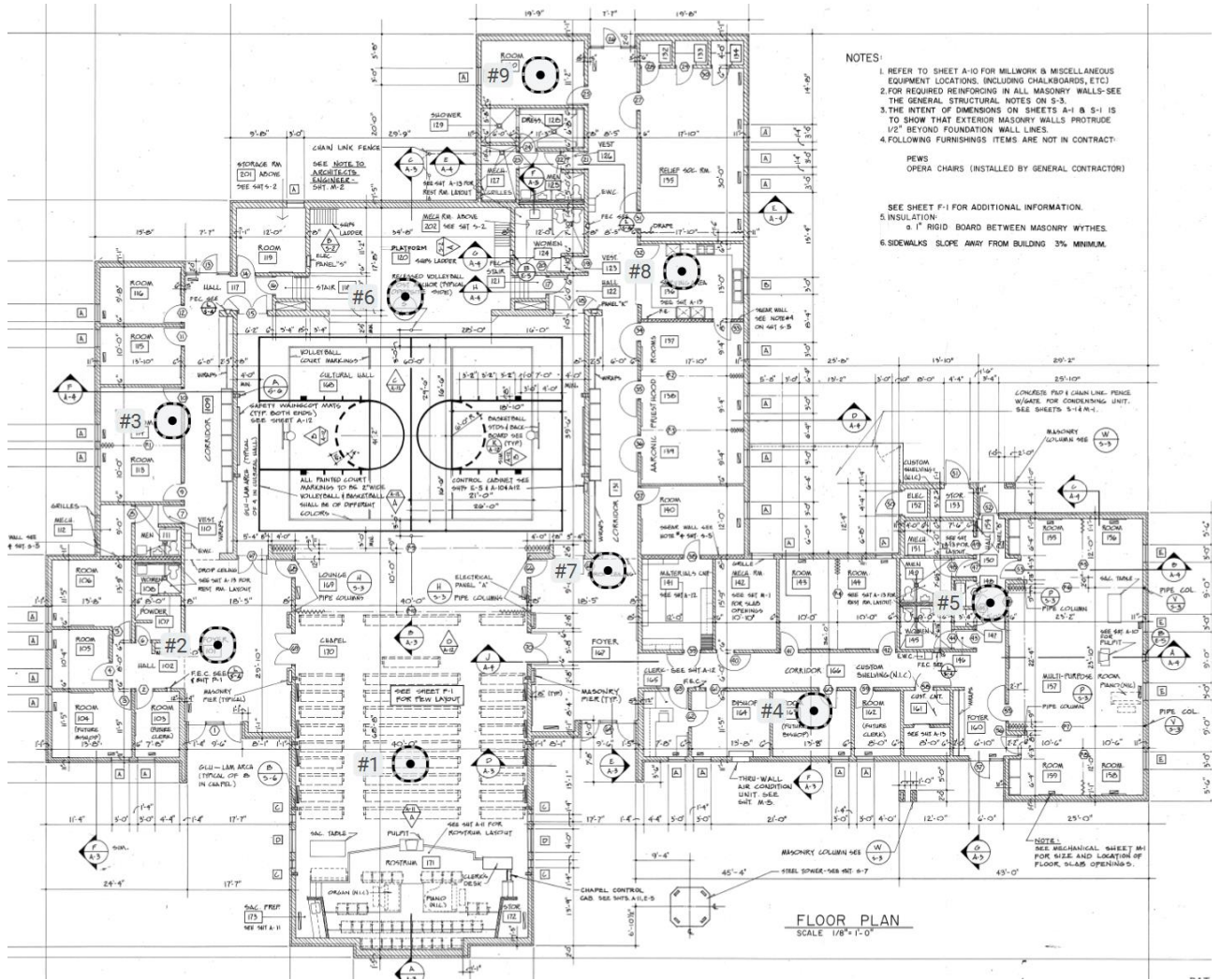


- NOTES:
1. REFER TO SHEET A-10 FOR MILLWORK & MISCELLANEOUS EQUIPMENT LOCATIONS, INCLUDING CHALKBOARDS, ETC)
 2. FOR REQUIRED REINFORCING IN ALL MASONRY WALLS-SEE THE GENERAL STRUCTURAL NOTES ON S-3
 3. THE INTENT OF DIMENSIONS ON SHEETS A-1 & S-1 IS TO SHOW THAT EXTERIOR MASONRY WALLS PROTRUDE 1/2" BEYOND FOUNDATION WALL LINES.
 4. FOLLOWING FURNISHINGS ITEMS ARE NOT IN CONTRACT:
PEWS
OPERA CHAIRS (INSTALLED BY GENERAL CONTRACTOR)
- SEE SHEET F-1 FOR ADDITIONAL INFORMATION.
5. INSULATION:
a. 1" RIGID BOARD BETWEEN MASONRY WYTHES.
 6. SIDEWALKS SLOPE AWAY FROM BUILDING 3% MINIMUM.

FLOOR PLAN
SCALE 1/8"=1'-0"



Access Points on Beaumont



Access Points on Beaumont

Simulated Access Points on Beaumont

AP #	Access Point		
1	Simulated AP-001		Cisco Meraki Catalyst 9162
	Wi-Fi 6	1	6 mW
	Wi-Fi 6	36	25 mW
	Wi-Fi 6E	1@80 (6 GHz)	25 mW
	Bluetooth	-	1 mW
2	Simulated AP-002		Cisco Meraki Catalyst 9162
	Wi-Fi 6	1	6 mW
	Wi-Fi 6	36	25 mW
	Wi-Fi 6E	1@80 (6 GHz)	25 mW
	Bluetooth	-	1 mW
3	Simulated AP-003		Cisco Meraki Catalyst 9162
	Wi-Fi 6	1	6 mW
	Wi-Fi 6	36	25 mW
	Wi-Fi 6E	1@80 (6 GHz)	25 mW
	Bluetooth	-	1 mW
4	Simulated AP-004		Cisco Meraki Catalyst 9162
	Wi-Fi 6	1	6 mW
	Wi-Fi 6	36	25 mW
	Wi-Fi 6E	1@80 (6 GHz)	25 mW
	Bluetooth	-	1 mW
5	Simulated AP-005		Cisco Meraki Catalyst 9162
	Wi-Fi 6	1	6 mW
	Wi-Fi 6	36	25 mW
	Wi-Fi 6E	1@80 (6 GHz)	25 mW

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	Bluetooth	-	1 mW	Cisco Meraki Catalyst 9162 BLE
6	Simulated AP-006		Cisco Meraki Catalyst 9162	
	Wi-Fi 6	1	6 mW	Cisco Meraki Catalyst 9162 2.4GHz
	Wi-Fi 6	36	25 mW	Cisco Meraki Catalyst 9162 5GHz
	Wi-Fi 6E	1@80 (6 GHz)	25 mW	Cisco Meraki Catalyst 9162 6GHz
	Bluetooth	-	1 mW	Cisco Meraki Catalyst 9162 BLE
7	Simulated AP-007		Cisco Meraki Catalyst 9162	
	Wi-Fi 6	1	6 mW	Cisco Meraki Catalyst 9162 2.4GHz
	Wi-Fi 6	36	25 mW	Cisco Meraki Catalyst 9162 5GHz
	Wi-Fi 6E	1@80 (6 GHz)	25 mW	Cisco Meraki Catalyst 9162 6GHz
	Bluetooth	-	1 mW	Cisco Meraki Catalyst 9162 BLE
8	Simulated AP-008		Cisco Meraki Catalyst 9162	
	Wi-Fi 6	1	6 mW	Cisco Meraki Catalyst 9162 2.4GHz
	Wi-Fi 6	36	25 mW	Cisco Meraki Catalyst 9162 5GHz
	Wi-Fi 6E	1@80 (6 GHz)	25 mW	Cisco Meraki Catalyst 9162 6GHz
	Bluetooth	-	1 mW	Cisco Meraki Catalyst 9162 BLE
9	Simulated AP-009		Cisco Meraki Catalyst 9162	
	Wi-Fi 6	1	6 mW	Cisco Meraki Catalyst 9162 2.4GHz
	Wi-Fi 6	36	25 mW	Cisco Meraki Catalyst 9162 5GHz
	Wi-Fi 6E	1@80 (6 GHz)	25 mW	Cisco Meraki Catalyst 9162 6GHz
	Bluetooth	-	1 mW	Cisco Meraki Catalyst 9162 BLE

Measured Access Points on Beaumont

None.