



FA #: 10087226
USID: 36504
SITE NAME: S LOS ROBLES & CORDOVA



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On-Site Radio Frequency Safety Survey Report (RFSSR) Prepared For AT&T



Site Name:	S LOS ROBLES & CORDOVA
FA#	10087226
USID:	36504
Site ID:	CLL05824, CLL25824
Address:	303 CORDOVA STREET, PASADENA, CA 91101
County:	LOS ANGELES
Latitude:	34.14292
Longitude:	-118.14333
Structure Type	ROOFTOP
Property Owner	NA
Property Contact	NA
M-RFSC Name	ESSIE POLARD
Desktop Modeler	IXUS VERSION 4.14(0)

Survey Technician: Phi Nguyen
Meter Model/Serial: 22SN1900
Meter Calibration Date: 03-25-2024
Report Writer: Kartik Gupta

Report Information

Site Survey Date: 04-22-2025 at 13:40
Probe Model/Serial: 22WP220028
Probe Calibration Date: 03-25-2024
Report Generated Date: 05-01-2025

Compliance Statement

AT&T Mobility Compliance Statement: Based on the information collected, AT&T Mobility will be compliant when the remediation recommended in section 6 or appropriate remediation determined by AT&T is implemented.



Table of Contents

1. Executive Summary	4
1.1 Site Summary	4
1.2 Antenna Access Summary	4
1.3 Signage Summary	5
1.4 Site Access Information	7
1.5 Fall Arrest Anchors And Parapet Summary	7
1.6 Climate Conditions at Time of On-Site Audit.....	7
2. Site Scale Map.....	8
3. Antenna Inventory	9
4. Site Photographs.....	12
5. Emission Measurements and Predictions	18
5.1 On-Site Measurements	18
5.2 Predicted Emission Diagram(s)	21
5.2.1 Predictive Cumulative MPE Contribution from All Sources: 3D Top View.....	21
5.2.2 Predictive Cumulative MPE Contribution from All Sources: 3D Perspective View - 1	22
5.2.3 Predictive Cumulative MPE Contribution from All Sources: 3D Perspective View - 2	23
5.2.4 Predictive Cumulative MPE Contribution from All Sources: 3D Perspective View - 3	24
5.2.5 Predictive Cumulative MPE Contribution from All Sources at Sloped Adj. Building-1 Level (59.33 ft. AGL)	25
5.2.6 Predictive Cumulative MPE Contribution from All Sources at Main Roof Level (49.33 ft. AGL).....	26
5.2.7 Predictive Cumulative MPE Contribution from All Sources at Adj. Building-2 Sloped Roof Level (47.33 ft. AGL)	27
5.2.8 Predictive Cumulative MPE Contribution from All Sources at Balcony-1,2&3 Level (42.33 ft. AGL).....	28
5.2.9 Predictive Cumulative MPE Contribution from All Sources at Lower Roof Level (11 ft. AGL).....	29
6. Statement of Compliance	30
6.1 Statement of AT&T Mobility Compliance	30
6.1.1 Recommendations.....	30
6.1.2 Recommendations Map - Detailed View.....	32



FA #: 10087226
USID: 36504
SITE NAME: S LOS ROBLES & CORDOVA

6.1.3 Predictive Cumulative RF Exposure from All Sources AFTER implementing recommended mitigation at Sector B & C:.....	33
6.1.4 Signage Removal	34
Appendix A – Statement of Limiting Conditions.....	35
Appendix B – Assumptions and Definitions.....	36
Appendix C – Measurement Equipment.....	38
Appendix D – Rules & Regulations	39
Appendix E – General Safety Recommendations	40
Appendix F – References	41
Appendix G – Calibration Certificates	44



FA #: 10087226
USID: 36504
SITE NAME: S LOS ROBLES & CORDOVA



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1. Executive Summary

1.1 Site Summary

Max Measured Spatial Average MPE% & Location on Site Walking Surface (General Public)	137.0000% on Main Roof Level & locates at measurement #31
Max Predictive Spatial Average MPE% & Location on Site (General Public)	4361.5800% on Main Roof Level
Max Predictive Spatial Average MPE% (AT&T Only) & Location on Site Walking Surface (General Public)	4361.5800% on Main Roof Level
AT&T Mobility Site Compliance	AT&T Mobility will be compliant by implementing remediation recommended as per section 6 in this report.

TABLE 1: Site Summary

1.2 Antenna Access Summary

Access to Antennas	Status	Access Control Type	Comments
Main Roof Access	Restricted	Locked Door	
AT&T Sector A	Non-Restricted		
AT&T Sector B	Non-Restricted		
AT&T Sector C	Non-Restricted		



FA #: 10087226
USID: 36504
SITE NAME: S LOS ROBLES & CORDOVA



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1.3 Signage Summary

AT&T Signage Locations	SI SIGN		Caution 2		Notice 1		Notice 2		Caution 1		Caution 2B		Caution 2C		Warning 1		Barriers	
	Existing	Installed	Existing	Installed	Existing	Installed	Existing	Installed	Existing	Installed	Existing	Installed	Existing	Installed	Existing	Installed	Existing	Installed
Access Point(s)	X																	
Alpha			2	6														
Beta			11	1														
Gamma			6	2														

TABLE 2.1: Existing/Installed Signage Summary (AT&T)

AT&T Signage Locations	SI SIGN		Caution 2		Notice 1		Notice 2		Caution 1		Caution 2B		Caution 2C		Warning 1		Barriers	
	Install	Remove	Install	Remove	Install	Remove	Install	Remove	Install	Remove	Install	Remove	Install	Remove	Install	Remove	Install	Remove
Access Point(s)																		
Alpha																		
Beta			7														X	
Gamma			4														X	

TABLE 2.2: Proposed/Recommended Signage Summary (AT&T)

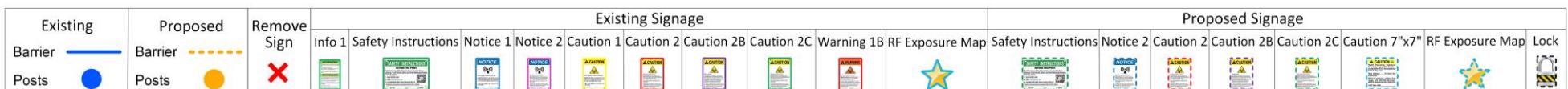


AT&T Signage Locations	SI SIGN		Caution 2		Notice 1		Notice 2		Caution 1		Caution 2B		Caution 2C		Warning 1		Barriers	
	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed
Access Point(s)	X																	
Alpha			8															
Beta			12	7														X
Gamma			8	4														X

TABLE 2.3: Final Compliance Signage Summary (AT&T)

AT&T Signage Locations	SI SIGN		Caution 2		Notice 1		Notice 2		Caution 1		Caution 2B		Caution 2C		Warning 1		Barriers	
	Existing	Replaced	Existing	Replaced	Existing	Replaced	Existing	Replaced	Existing	Replaced	Existing	Replaced	Existing	Replaced	Existing	Replaced	Existing	Replaced
Access Point(s)	X																	
Alpha			2															
Beta			11															
Gamma			6															

TABLE 2.4: Existing/Replaced Polyethylene Signage Summary (AT&T)





FA #: 10087226
USID: 36504
SITE NAME: S LOS ROBLES & CORDOVA

1.4 Site Access Information

Site on roof of sheraton hotel. Access monday through friday 9am to 11am. Locate security for access. Or contact harry ikeda chief engineer to the sheraton on his cell 323-717-3907 or email harry. Ikeda at sheratonpasadena. Com. Can also contact carlos e. Mendoza general manager at 626-449-4000 x 141. Go to front desk with id, ask for bldg. Engineer to escort you to the roof. Note: hotel building is closed due to covid, not accepting guest at this time. For access, please contact in advance. Carlo

1.5 Fall Arrest Anchors And Parapet Summary

Fall Arrest Anchor & Parapet Info	Parapet/Railing Available (Yes/No)	Parapet/Railing Height (inches)	Fall Arrest Anchors Available (Yes/No)
Safety Info (Roof/Site)	Yes	16	No

TABLE 3: Fall Arrest Anchor Point Summary

1.6 Climate Conditions at Time of On-Site Audit

Temperature:	80° F
Sky Condition:	Sunny
Wind Factor:	5 MPH
Precipitation:	No

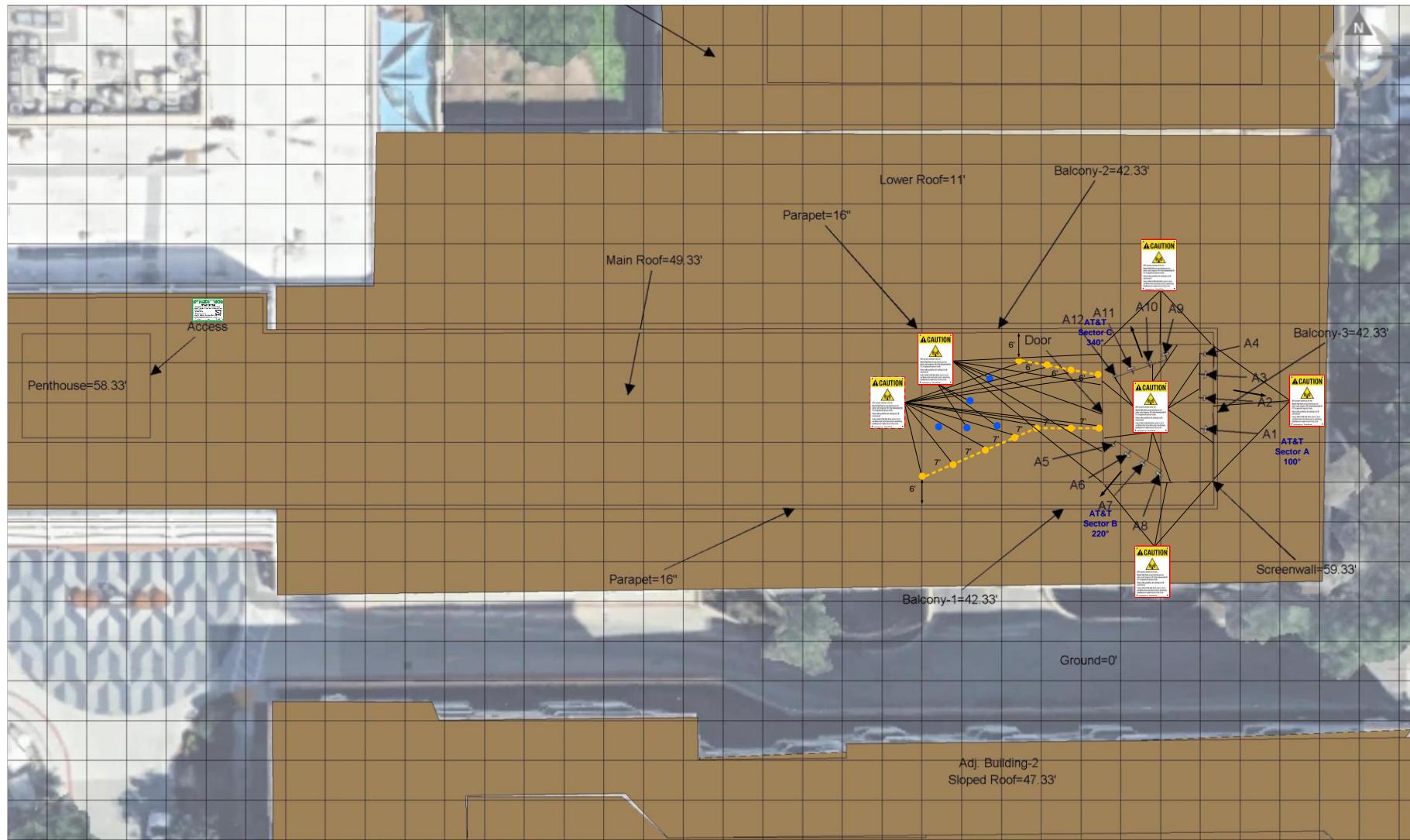


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2. Site Scale Map



Legend												Map Scale = 10 ft									
			Existing Signage									Proposed Signage									
Existing Barrier Posts	Proposed Barrier Posts	Remove Sign	Info 1	Info 2	Safety Instructions	Notice 1	Notice 2	Caution 1	Caution 2	Caution 2A	Caution 2C	Warning 1	Caution 2B	Notice 2D Adjacent	Caution 2	Caution 2A	Caution 2B	Caution 7"x7"	Caution 3xAdjacent	RF Exposure Map	Lock



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USID: 36504

SITE NAME: S LOS ROBLES & CORDOVA



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3. Antenna Inventory

ANT ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	Freq (MHz)	Tech.	AZ (°)	EDT (°)	EDT Range For Analysis (°)	MDT (°)	HBW (°)	Antenna Gain (dBd)	Antenna Aperture (ft)	Transmitter Power (Watts)	Total Loss (dB)	Total ERP (Watts)	Total EiRP (Watts)
A1	AT&T	QUINTEL	QD66512-3D	Panel	2100	LTE	100	1	0-3	0	68	15.65	6.00	40.01	1.70	993.38	1629.72
A1	AT&T	QUINTEL	QD66512-3D	Panel	2100	LTE	100	1	0-3	0	68	15.65	6.00	80.00	1.70	1986.38	3258.84
A1	AT&T	QUINTEL	QD66512-3D	Panel	700(B12)	LTE	100	2	2-4	0	69	12.65	6.00	90.00	0.50	1476.53	2422.38
A1	AT&T	QUINTEL	QD66512-3D	Panel	850	5G	100	2	2-4	0	64	13.05	6.00	120.00	0.50	2158.65	3541.45
A2	AT&T	Ericsson	AIR6449 B77D	Integrated	3840	5G	100	6	6	0	11	23.50	2.55	108.44*	0.50	21636.62*	35496.82*
A3	AT&T	QUINTEL	QD66512-3D	Panel	1900	LTE	100	1	0-3	0	71	15.25	6.00	120.00	1.70	2717.57	4458.42
A3	AT&T	QUINTEL	QD66512-3D	Panel	700(B14)	LTE	100	2	2-4	0	69	12.65	6.00	45.00	0.50	738.27	1211.19
A4	AT&T	QUINTEL	QS6658-3	Panel	2300	LTE	100	3	2-5	0	58	15.85	6.00	57.16	1.70	1486.34	2438.48
A4	AT&T	QUINTEL	QS6658-3	Panel	700(B29)	LTE	100	2	2-4	0	69	11.35	6.00	7.50	1.87	66.54	109.16
A5	AT&T	QUINTEL	QS6658-3	Panel	2300	LTE	220	3	2-5	0	58	15.85	6.00	57.16	1.70	1486.34	2438.48
A5	AT&T	QUINTEL	QS6658-3	Panel	700(B29)	LTE	220	2	2-4	0	69	11.35	6.00	1.50	1.87	13.31	21.83
A6	AT&T	QUINTEL	QD66512-3D	Panel	1900	LTE	220	3	1-5	0	71	15.25	6.00	120.00	1.70	2717.57	4458.42
A6	AT&T	QUINTEL	QD66512-3D	Panel	700(B14)	LTE	220	2	2-4	0	69	12.65	6.00	4.50	0.50	73.83	121.12
A7	AT&T	Ericsson	AIR6449 B77D	Integrated	3840	5G	220	6	6	0	11	23.50	2.55	108.44*	0.50	21636.62*	35496.82*
A8	AT&T	QUINTEL	QD66512-3D	Panel	2100	LTE	220	3	1-5	0	68	15.65	6.00	40.01	1.70	993.38	1629.72
A8	AT&T	QUINTEL	QD66512-3D	Panel	2100	LTE	220	3	1-5	0	68	15.65	6.00	80.00	1.70	1986.38	3258.84
A8	AT&T	QUINTEL	QD66512-3D	Panel	700(B12)	LTE	220	4	2-6	0	69	12.65	6.00	90.00	0.50	1476.53	2422.38
A8	AT&T	QUINTEL	QD66512-3D	Panel	850	5G	220	2	2-4	0	64	13.05	6.00	120.00	0.50	2158.65	3541.45

Table 4.1: Antenna Inventory Table

Note: Any change in EDT value beyond "EDT Range for Analysis (°)" as mentioned in the table above will require a new EME (Predictive) study.

* 75% TDD duty Cycle, 1.5dB Power Tolerance & 0.32 Power Reduction factor¹ are used to calculate Transmitter Power & ERP/EiRP

"Transmitter Power (Watt)" for AT&T used in this analysis is as provided by AT&T and further 75% duty cycle is applied, as advised by HQRAN.

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ANT ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	Freq (MHz)	Tech.	AZ (°)	EDT (°)	EDT Range For Analysis (°)	MDT (°)	HBW (°)	Antenna Gain (dBd)	Antenna Aperture (ft)	Transmitter Power (Watts)	Total Loss (dB)	Total ERP (Watts)	Total EiRP (Watts)
A9	AT&T	QUINTEL	QD66512-3D	Panel	2100	LTE	340	2	0-4	0	68	15.65	6.00	40.01	1.70	993.38	1629.72
A9	AT&T	QUINTEL	QD66512-3D	Panel	2100	LTE	340	2	0-4	0	68	15.65	6.00	80.00	1.70	1986.38	3258.84
A9	AT&T	QUINTEL	QD66512-3D	Panel	700(B12)	LTE	340	2	2-4	0	69	12.65	6.00	90.00	0.50	1476.53	2422.38
A9	AT&T	QUINTEL	QD66512-3D	Panel	850	5G	340	2	2-4	0	64	13.05	6.00	120.00	0.50	2158.65	3541.45
A10	AT&T	Ericsson	AIR6449 B77D	Integrated	3840	5G	340	6	6	0	11	23.50	2.55	108.44*	0.50	21636.62*	35496.82*
A11	AT&T	QUINTEL	QD66512-3D	Panel	1900	LTE	340	2	0-4	0	71	15.25	6.00	120.00	1.70	2717.57	4458.42
A11	AT&T	QUINTEL	QD66512-3D	Panel	700(B14)	LTE	340	2	2-4	0	69	12.65	6.00	4.50	0.50	73.83	121.12
A12	AT&T	QUINTEL	QS6658-3	Panel	2300	LTE	340	2.5	2-5	0	58	15.85	6.00	30.00	1.70	780.05	1279.74
A12	AT&T	QUINTEL	QS6658-3	Panel	700(B29)	LTE	340	2	2-4	0	69	11.35	6.00	1.50	1.87	13.31	21.83

Table 4.2: Antenna Inventory Table

Note: Any change in EDT value beyond "EDT Range for Analysis (°)" as mentioned in the table above will require a new EME (Predictive) study.

* 75% TDD duty Cycle, 1.5dB Power Tolerance & 0.32 Power Reduction factor¹ are used to calculate Transmitter Power & ERP/EIRP

"Transmitter Power (Watt)" for AT&T used in this analysis is as provided by AT&T and further 75% duty cycle is applied, as advised by HQRAN.

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FA #: 10087226
USID: 36504
SITE NAME: S LOS ROBLES & CORDOVA



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Antenna Heights (Z)

ANT ID	Operator	Antenna Radiation Centerline (ft)	Z-Height from Sloped Adj. Building-1 (ft)	Z-Height from Main Roof (ft)	Z-Height from Adj. Building-2 Sloped Roof (ft)	Z-Height from Balcony-1,2&3 (ft)	Z-Height from Lower Roof (ft)	Z-Height from Ground (ft)
A1	AT&T	55.91	-6.42	3.58	5.58	10.58	41.91	52.91
A2	AT&T	57.64	-2.97	7.04	9.04	14.04	45.37	56.37
A3	AT&T	55.91	-6.42	3.58	5.58	10.58	41.91	52.91
A4	AT&T	55.91	-6.42	3.58	5.58	10.58	41.91	52.91
A5	AT&T	55.91	-6.42	3.58	5.58	10.58	41.91	52.91
A6	AT&T	56.41	-5.92	4.08	6.08	11.08	42.41	53.41
A7	AT&T	58.14	-2.47	7.54	9.54	14.54	45.87	56.87
A8	AT&T	56.41	-5.92	4.08	6.08	11.08	42.41	53.41
A9	AT&T	56.50	-5.83	4.17	6.17	11.17	42.50	53.50
A10	AT&T	58.22	-2.39	7.62	9.62	14.62	45.95	56.95
A11	AT&T	56.50	-5.83	4.17	6.17	11.17	42.50	53.50
A12	AT&T	56.00	-6.33	3.67	5.67	10.67	42.00	53.00

Table 4.3: Antenna Height(s) Summary Table



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4. Site Photographs



General Site View



Rooftop Access – Pre



Rooftop Access – Post



AT&T Sector A Antennas (A4, A3, A2, A1)



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USID: 36504
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AT&T Sector A (Signage-1)



AT&T Sector A (Signage-2)



AT&T Sector A (Signage-3)



AT&T Sector A (Signage-4)



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AT&T Sector B Antennas (A8, A7, A6, A5)



AT&T Sector B (Signage-2)



AT&T Sector B (Signage-1)



AT&T Sector B (Signage-3)



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AT&T Sector B (Signage-4)



AT&T Sector C Antennas (A12, A11, A10, A9)



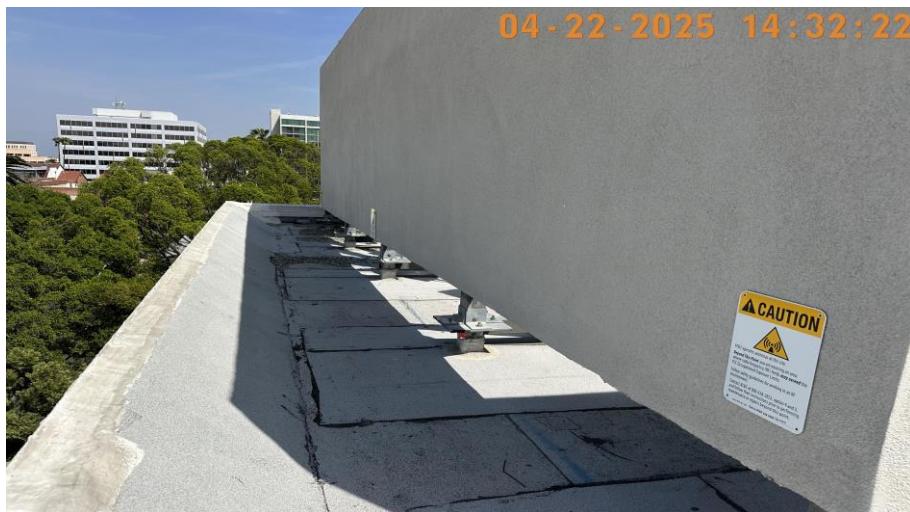
AT&T Sector C (Signage-1)



AT&T Sector C (Signage-2)



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AT&T Sector C (Signage-3)



AT&T Sector C (Signage-5)



AT&T Sector C (Signage-4)



Roof from NE Corner



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Roof from NW Corner



Roof from SW Corner



Roof from SE Corner



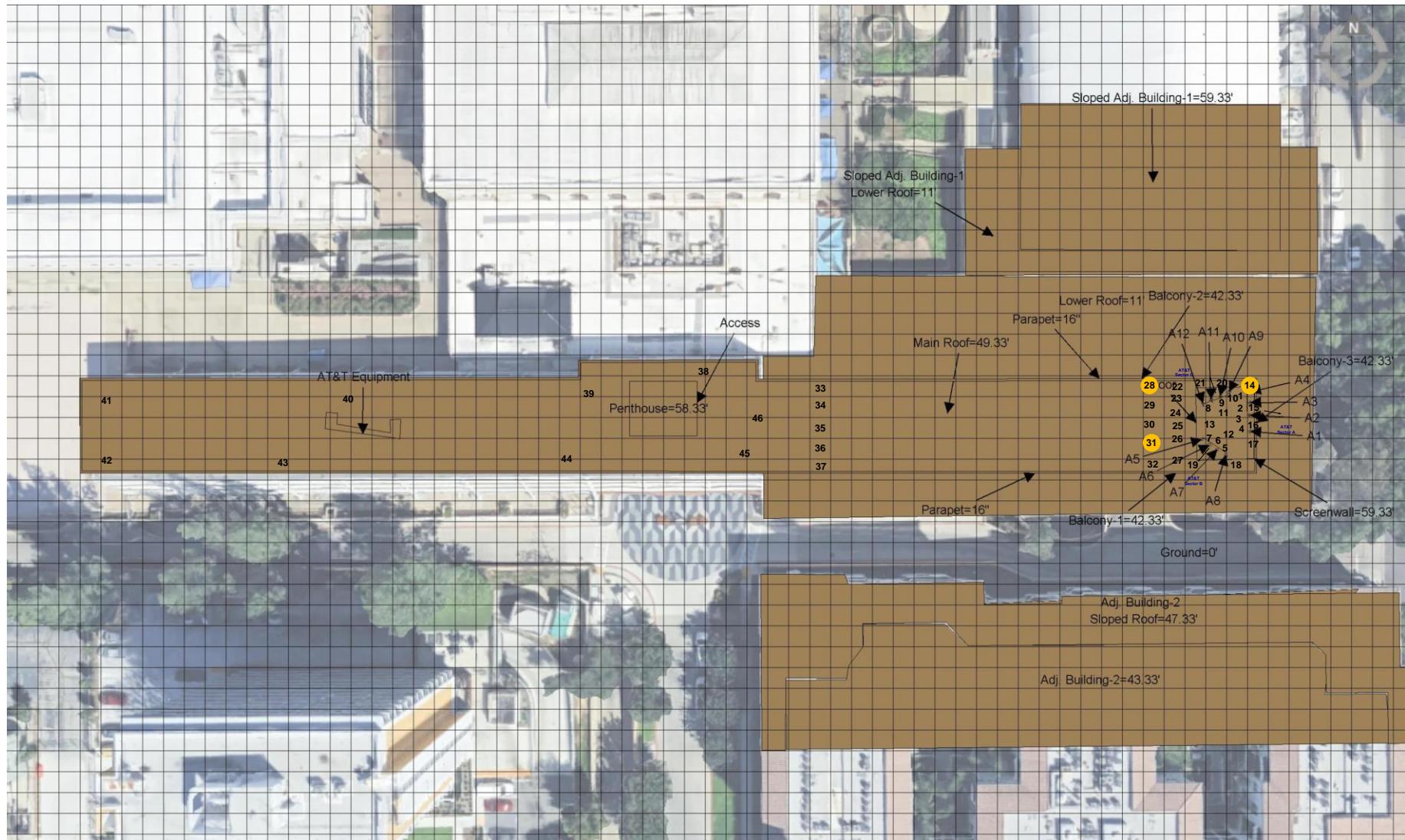
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5. Emission Measurements and Predictions

5.1 On-Site Measurements



Emission Measurements (At Roof)

Legend	"A"-AT&T	"T"-T-Mobile	"V"-VERIZON	"S"-SPRINT	"U"-USCC	"D"-DISH WIRELESS	"UK"-Unknown/Other Carrier	Microwave	"UK"-Omni	Map Scale = 10ft
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Location #	Site Readings		Location #	Site Readings	
	Avg	Max		Avg	Max
1	108.8500 %	132.7500 %	2	72.6500 %	85.7500 %
3	81.2000 %	95.8000 %	4	81.3500 %	98.3500 %
5	74.9000 %	85.3000 %	6	72.1000 %	87.2000 %
7	79.8500 %	91.3000 %	8	80.3500 %	94.1000 %
9	82.8000 %	104.7500 %	10	75.4000 %	95.2500 %
11	78.9000 %	100.2500 %	12	68.9000 %	79.9500 %
13	64.9500 %	76.6000 %	14	115.5000 %	162.4000 %
15	107.6500 %	135.7500 %	16	106.6000 %	133.8500 %
17	112.6000 %	147.0000 %	18	100.5500 %	134.2000 %
19	112.2000 %	147.9000 %	20	105.2000 %	143.4000 %
21	105.7000 %	125.8000 %	22	112.1500 %	133.7500 %
23	125.4000 %	149.9000 %	24	123.4500 %	145.3000 %
25	133.1500 %	162.8000 %	26	123.2500 %	148.0000 %
27	120.7000 %	164.9000 %	28	129.0500 %	165.4000 %
29	112.4000 %	148.6500 %	30	121.3500 %	145.6000 %
31	137.0000 %	159.7500 %	32	130.1000 %	158.0500 %
33	62.6000 %	83.5000 %	34	63.4000 %	72.7500 %
35	66.2000 %	88.1000 %	36	69.2500 %	82.5000 %
37	60.9000 %	74.8500 %	38	27.0800 %	33.7950 %
39	27.7550 %	32.9300 %	40	28.3550 %	34.3200 %
41	25.9350 %	30.4100 %	42	29.6500 %	35.8850 %



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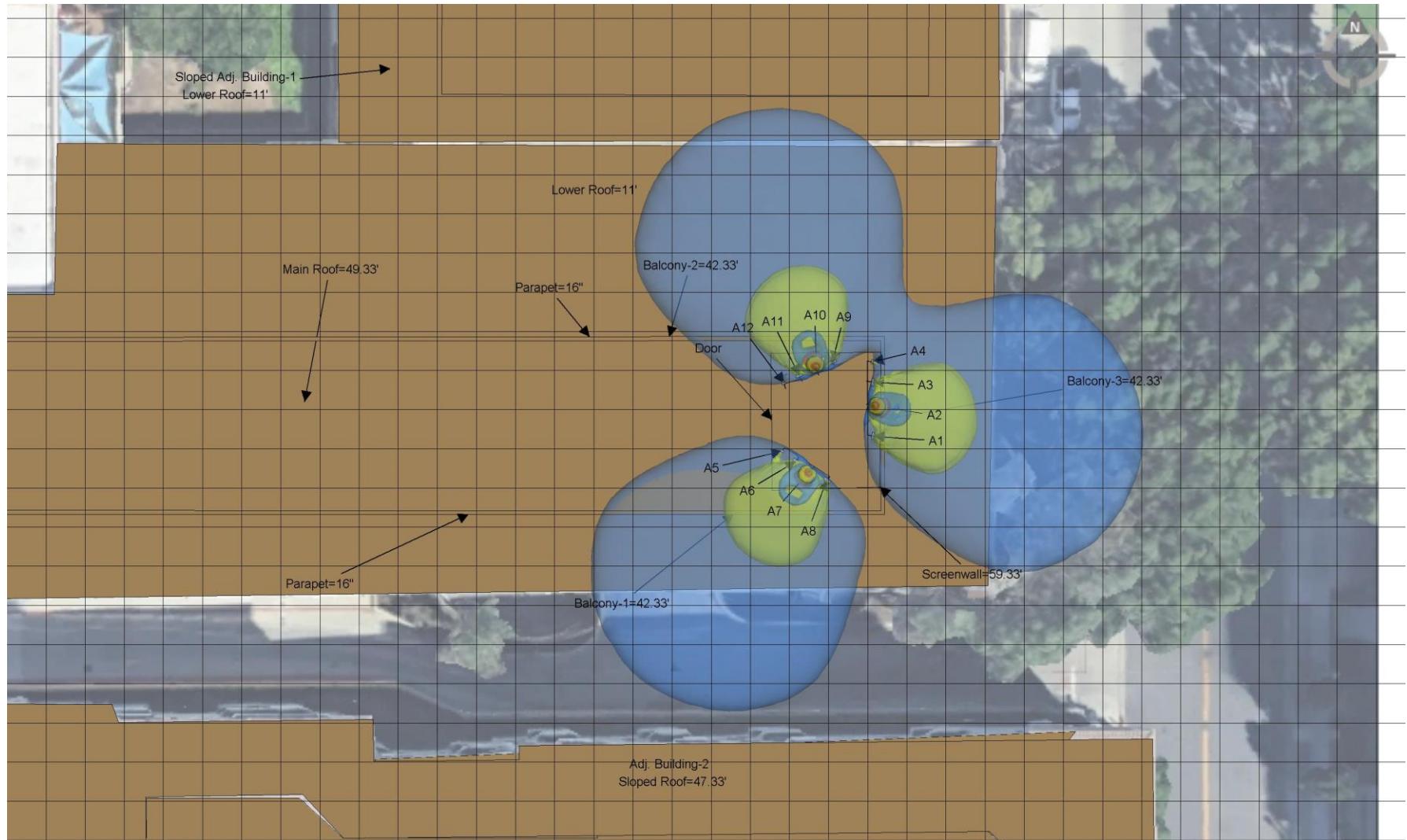
Location #	Site Readings		Location #	Site Readings	
	Avg	Max		Avg	Max
43	25.3300 %	30.6800 %	44	25.9750 %	32.0650 %
45	24.9400 %	32.8800 %	46	26.5800 %	31.2200 %

Table 5: MPE Table

Measurement Readings are Spatial Average and Maximum as MPE % of the General Public Limits

5.2 Predicted Emission Diagram(s)

5.2.1 Predictive Cumulative MPE Contribution from All Sources: 3D Top View

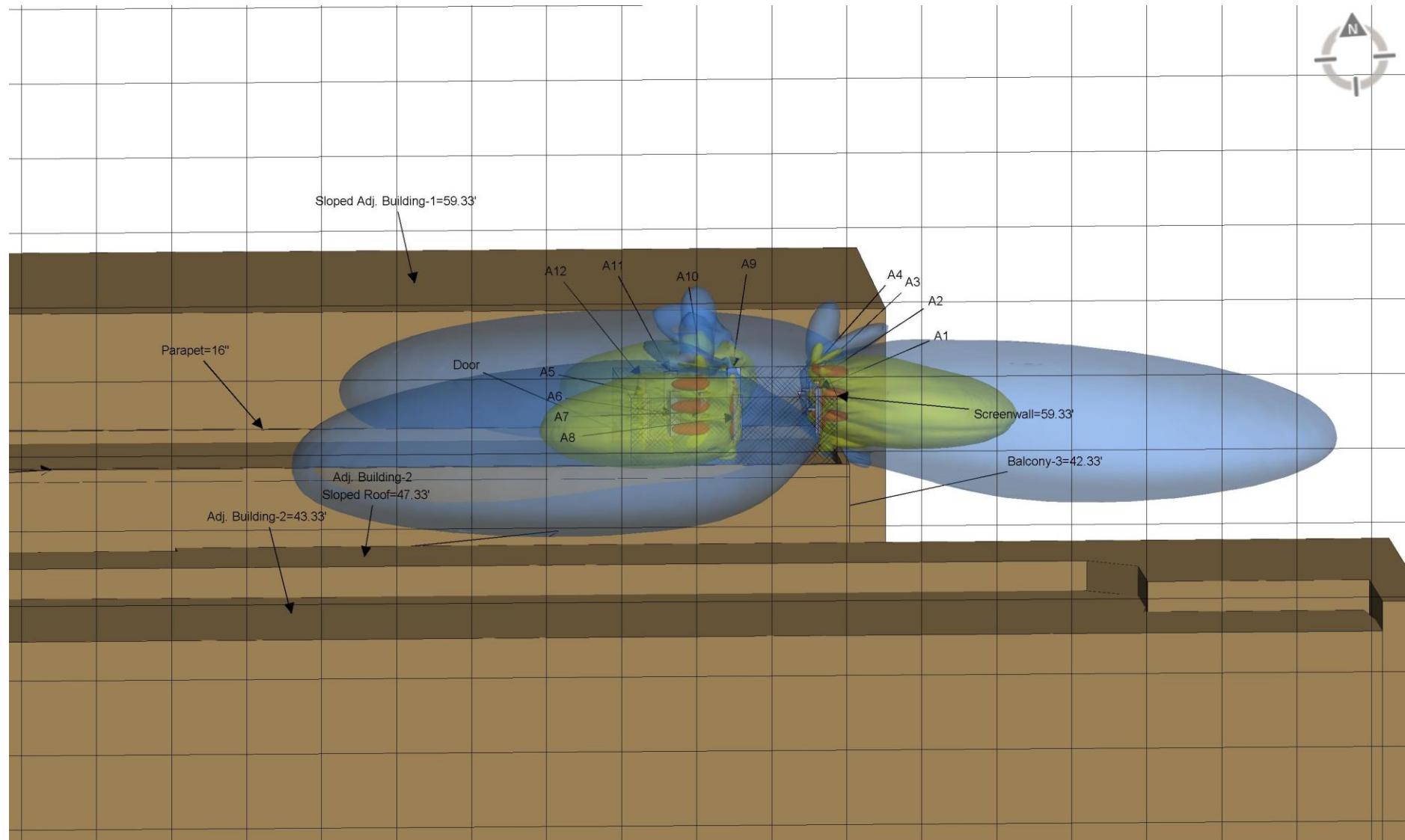


% of FCC General Public Exposure Limit

100-500	500-5000	>5000

Map Scale = 10 ft

5.2.2 Predictive Cumulative MPE Contribution from All Sources: 3D Perspective View - 1



% of FCC General Public Exposure Limit

100-500	500-5000	>5000

Map Scale = 10 ft

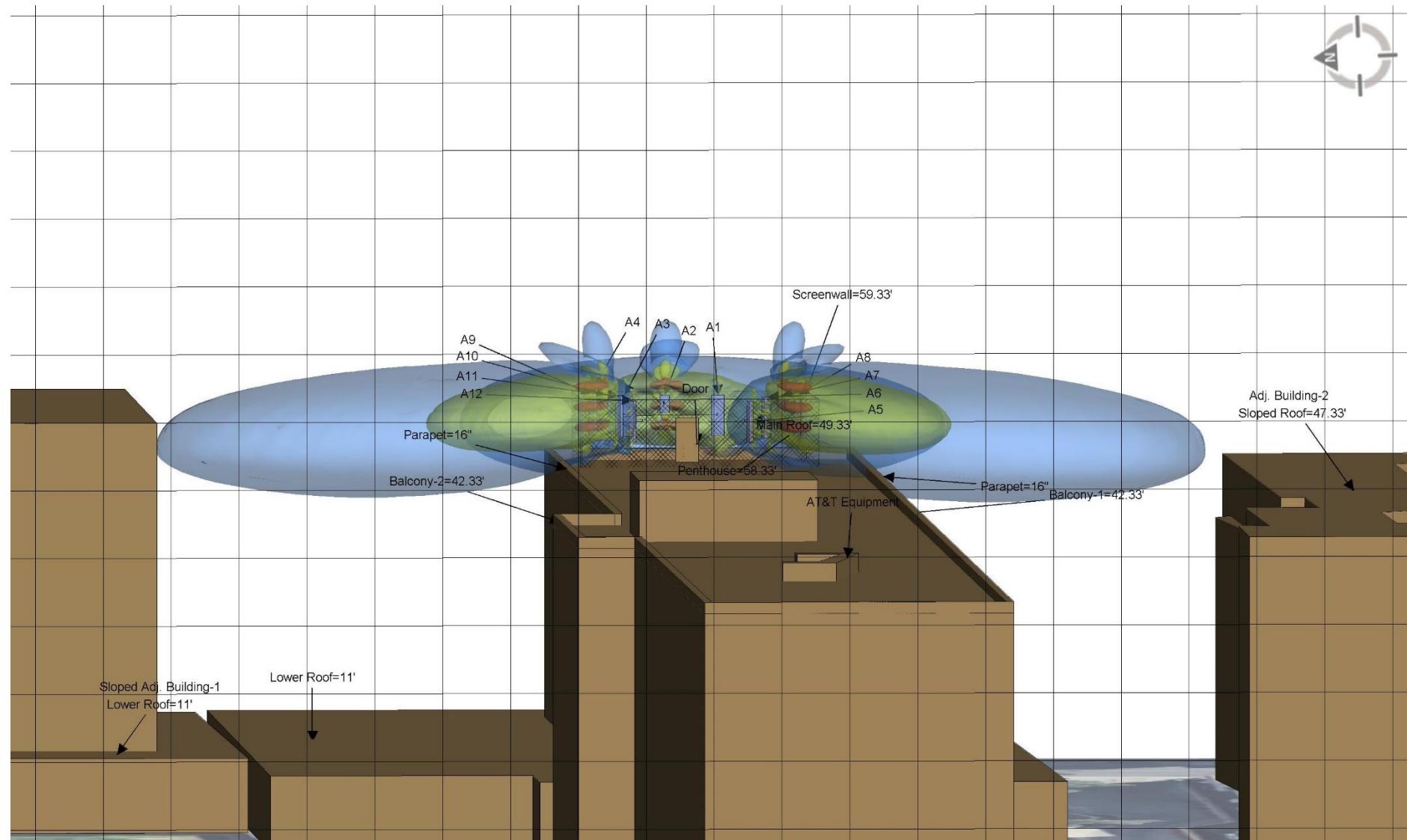


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5.2.3 Predictive Cumulative MPE Contribution from All Sources: 3D Perspective View - 2

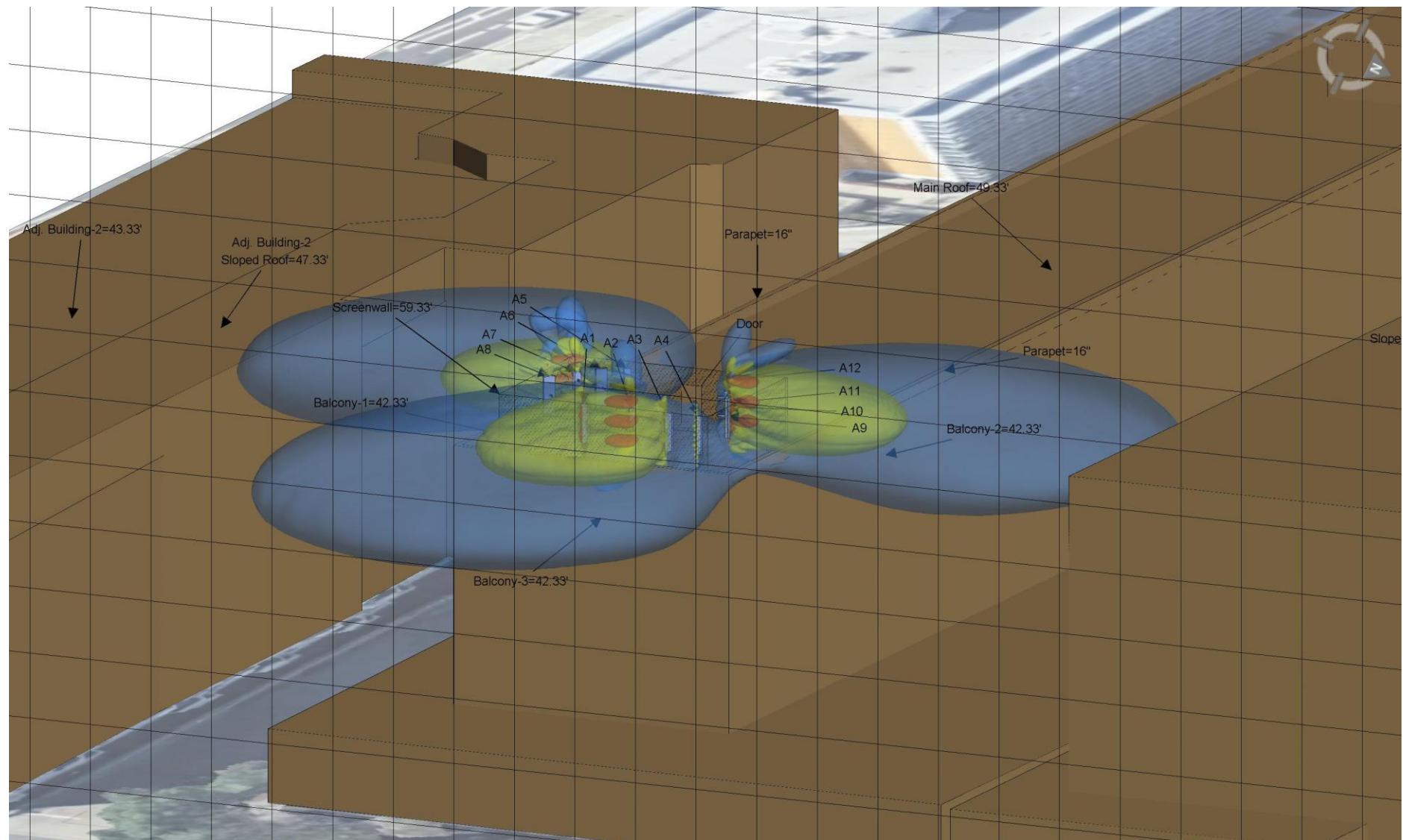


% of FCC General Public Exposure Limit

100-500	500-5000	>5000

Map Scale = 10 ft

5.2.4 Predictive Cumulative MPE Contribution from All Sources: 3D Perspective View - 3



% of FCC General Public Exposure Limit

100-500	500-5000	>5000

Map Scale = 10 ft

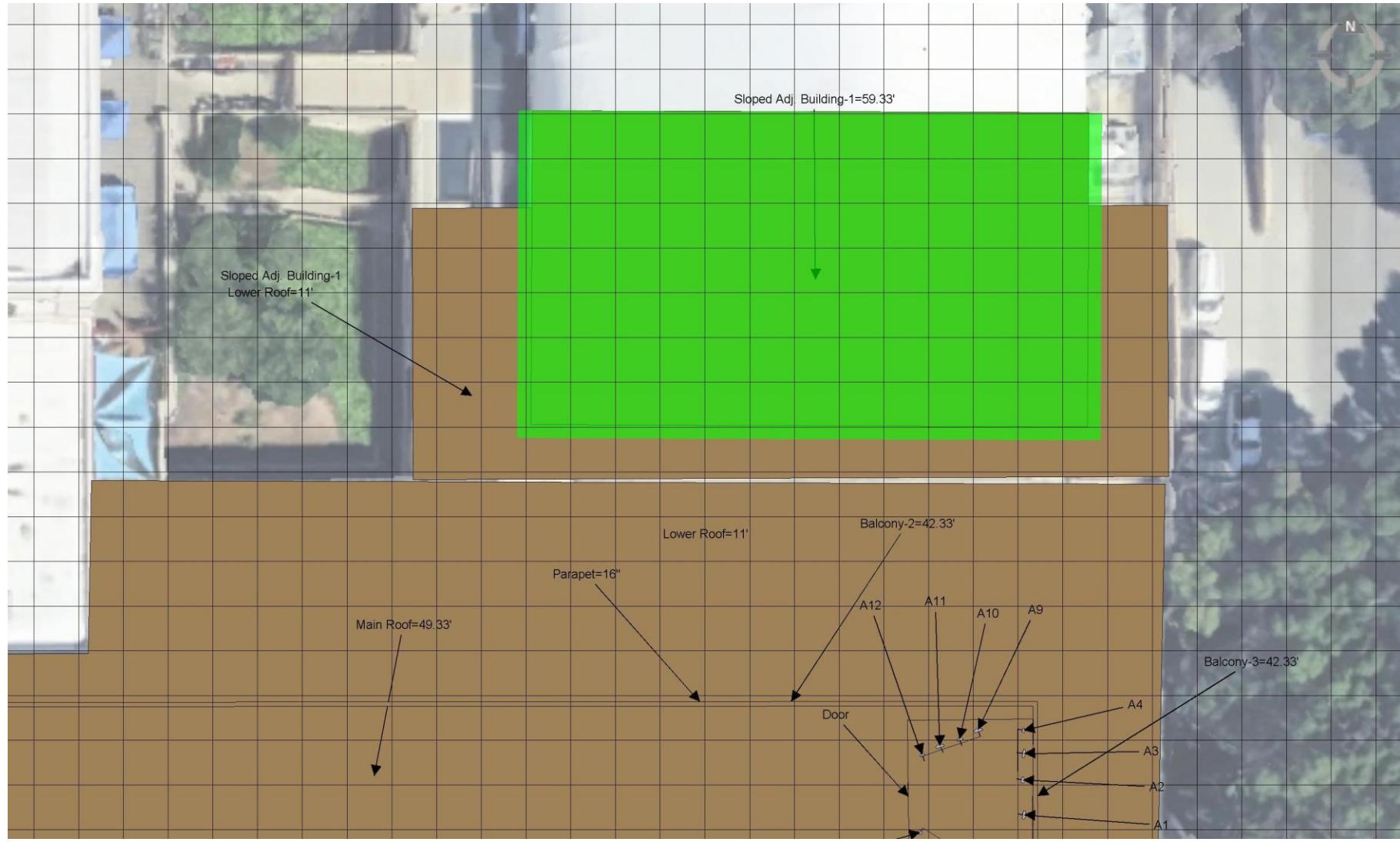


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5.2.5 Predictive Cumulative MPE Contribution from All Sources at Sloped Adj. Building-1 Level (59.33 ft. AGL)



Max. Predictive Spatial Average MPE% = **56.7222%**

% of FCC General Public Exposure Limit (Predictive Spatial Average)

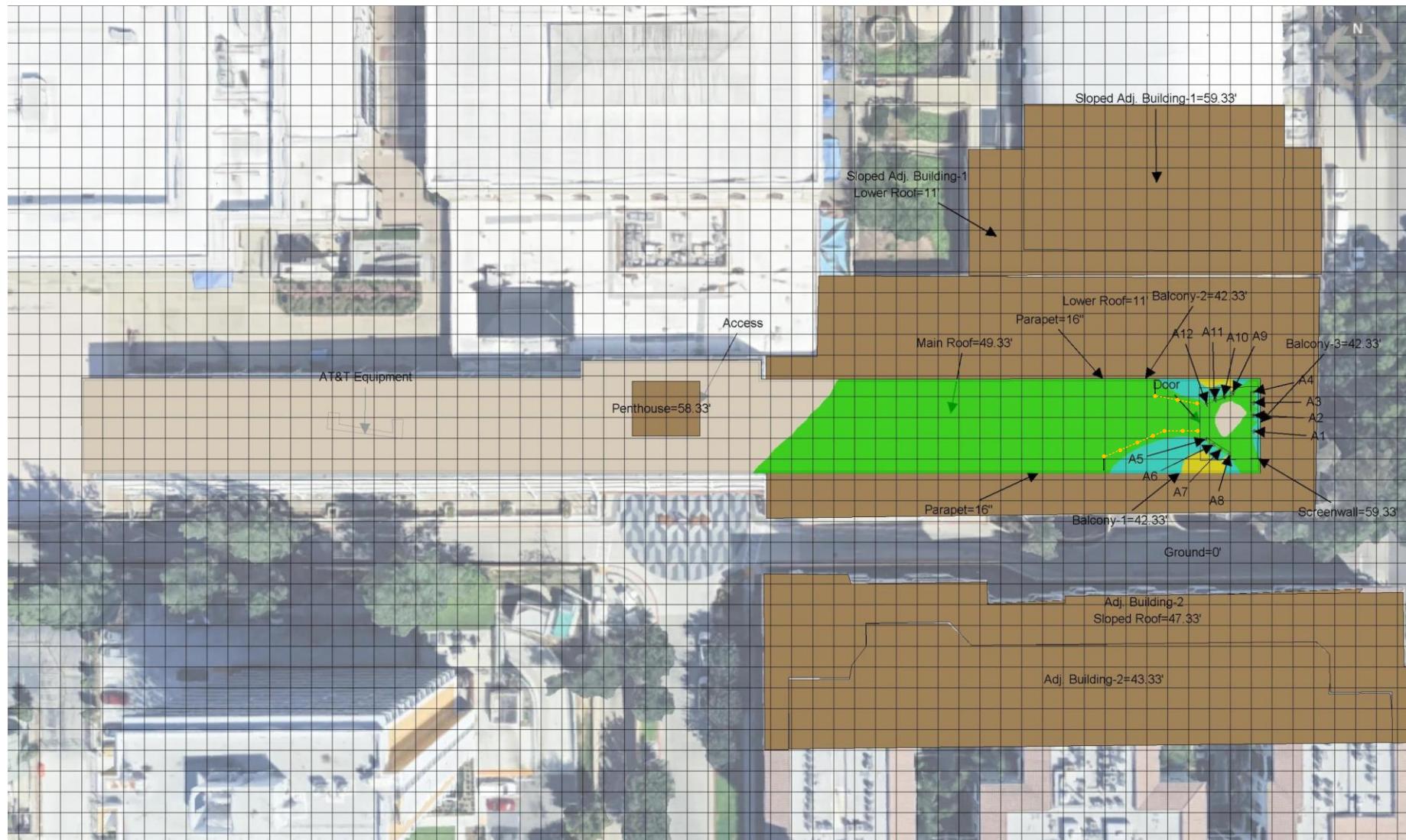
Non-Simulated	0-5	5-100	100-500	500-5000	>5000
■	■	■	■	■	■

Existing Barrier —————
Existing Posts ●

Map Scale = 10 ft

Proposed Barrier - - - - -
Proposed Posts ○

5.2.6 Predictive Cumulative MPE Contribution from All Sources at Main Roof Level (49.33 ft. AGL)



Max. Predictive Spatial Average MPE% = **4361.5800%**

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Existing Barrier —————
 Existing Posts ●

Non-Simulated	0-5	5-100	100-500	500-5000	>5000
■	■	■	■	■	■

Map Scale = 10 ft

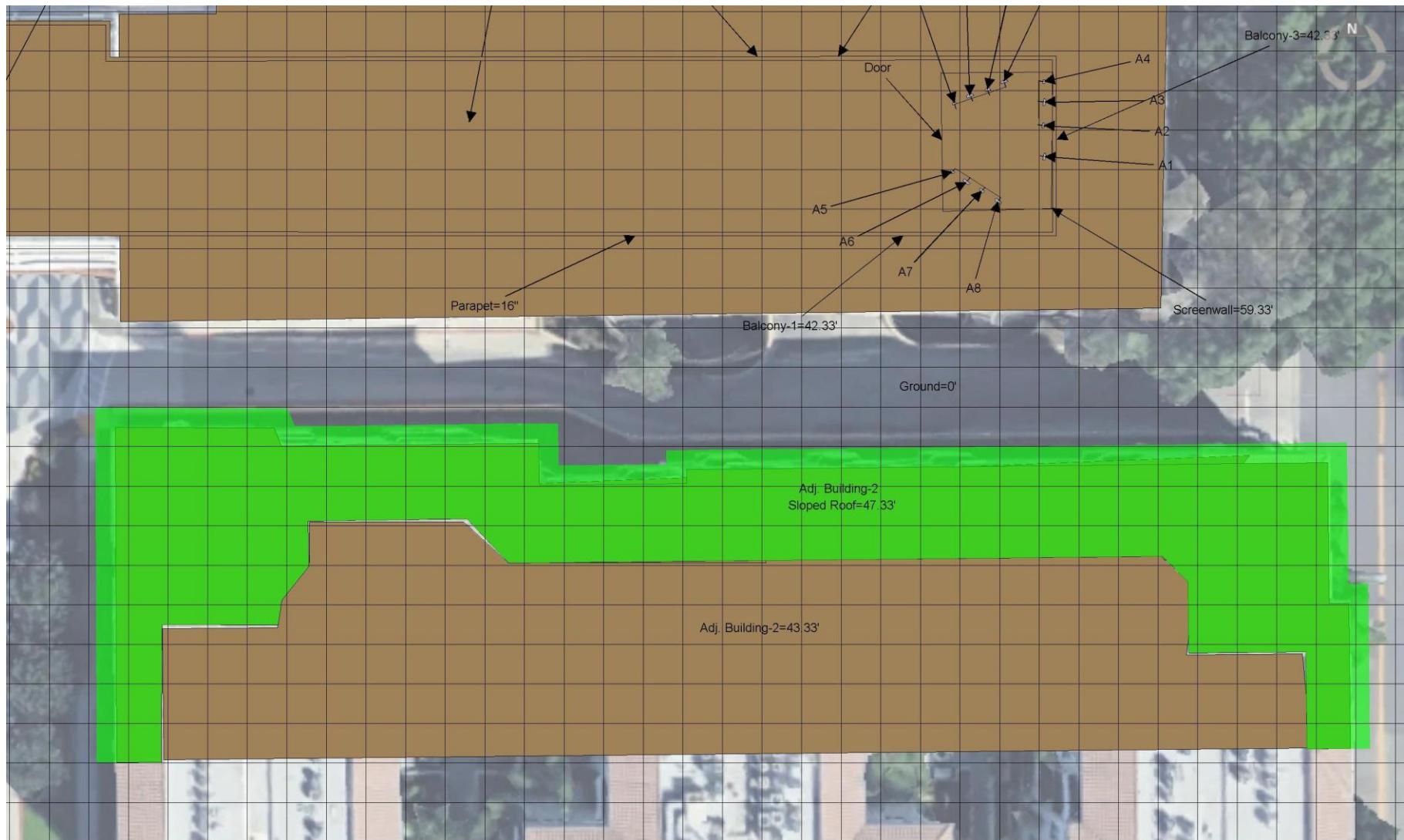
Proposed Barrier -----
 Proposed Posts ●



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5.2.7 Predictive Cumulative MPE Contribution from All Sources at Adj. Building-2 Sloped Roof Level (47.33 ft. AGL)



Max. Predictive Spatial Average MPE% = **90.1023%**

% of FCC General Public Exposure Limit (Predictive Spatial Average)

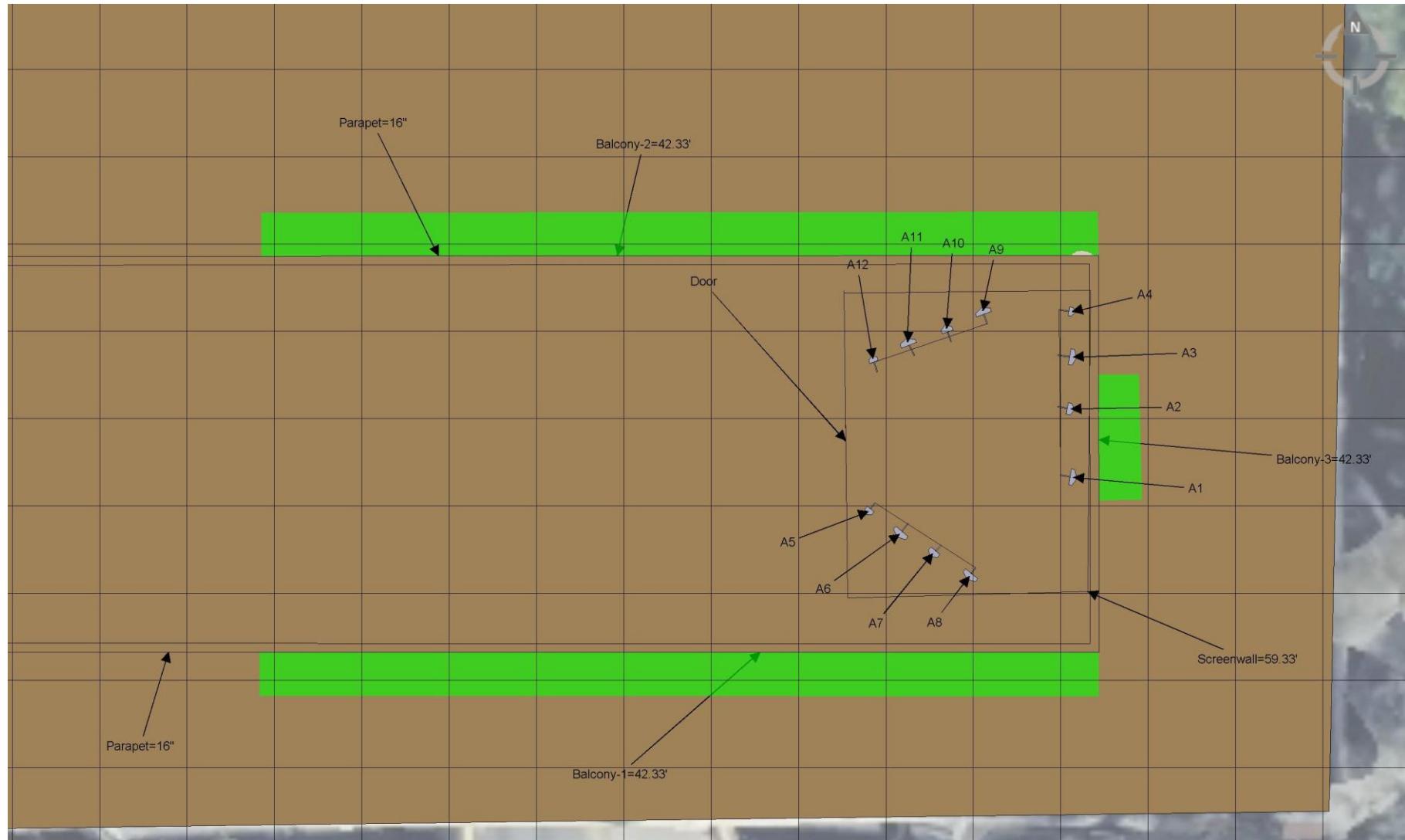
Existing Barrier
Existing Posts

Non-Simulated	0-5	5-100	100-500	500-5000	>5000

Map Scale = 10 ft

Proposed Barrier
Proposed Posts

5.2.8 Predictive Cumulative MPE Contribution from All Sources at Balcony-1,2&3 Level (42.33 ft. AGL)



Max. Predictive Spatial Average MPE% = **93.0229%**

% of FCC General Public Exposure Limit (Predictive Spatial Average)

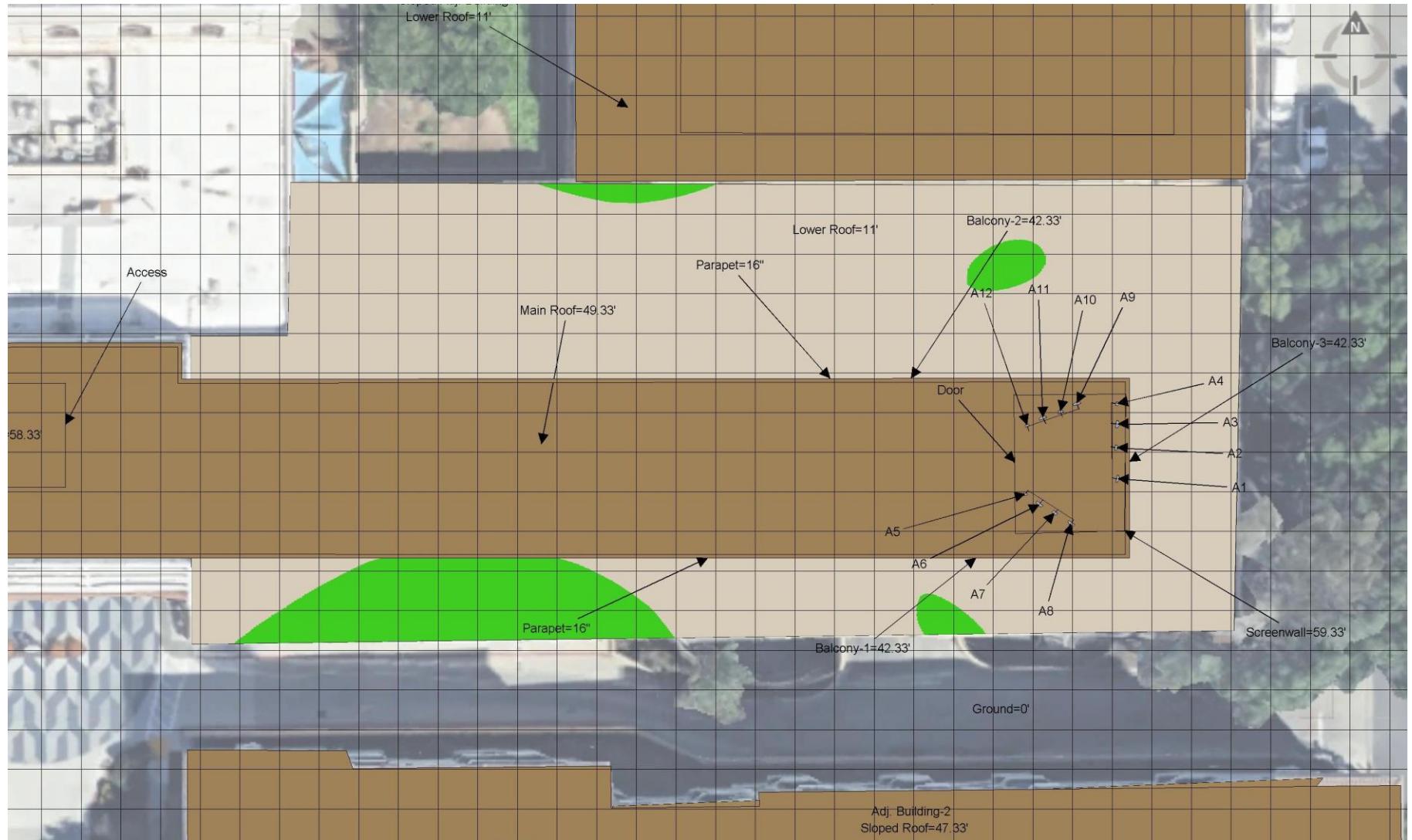
Existing Barrier
 Existing Posts

Non-Simulated	0-5	5-100	100-500	500-5000	>5000

Map Scale = 10 ft

Proposed Barrier
 Proposed Posts

5.2.9 Predictive Cumulative MPE Contribution from All Sources at Lower Roof Level (11 ft. AGL)



Max. Predictive Spatial Average MPE% = **6.1301%**

% of FCC General Public Exposure Limit (Predictive Spatial Average)

Existing Barrier
 Existing Posts

Non-Simulated	0-5	5-100	100-500	500-5000	>5000

Map Scale = 10 ft

Proposed Barrier
 Proposed Posts



6. Statement of Compliance

6.1 Statement of AT&T Mobility Compliance

At the time of our Analysis, AT&T Mobility is required to take action to fulfill their Obligations to comply with the FCC's mandate as defined in OET-65.

6.1.1 Recommendations

Disclaimer:

Initial recommended power reduction values are for reference only and should not be implemented without ATT RF Design & Optimization team's approval to determine what technology(s)/spectrum(s) power reduction levels should be allowed to ensure RF Safety Compliance.

IF RF Design/Optimization teams do not approve the initial reference values recommended then they will need to provide power reduction range(s) or other RF design change(s) per sector/band to be incorporated into new MPE analysis

AT&T Mobility Alpha Sector:

- No additional actions required.

AT&T Mobility Beta Sector:

- To mitigate excess MPE from Main Roof Level, choose one of the below options(s):

- Option-1:

- Barrier **14ft "7ft x 7ft" X 28ft "7ft x 7ft x 7ft x 7ft"** required with Seven Posts with Caution 2 Signs posted on the top of each Post facing outwards so approaching people can see as shown in "Recommendations Map - Detailed View" in Section 6.1.2. This barrier is not connected towards the parapet because existing parapet is less than 39" and as per "AT&T's Unprotected Roof Edge Policy", barriers must stop 6' away from unprotected roof edge. (7 Total Signs) (**REUSE Five Existing Posts with Existing Four Caution 2 Signs**).

- Option-2: follow below listed action(s):

- 2100MHz (AWS-1)- "12dB" attenuation is required.
 - 2300MHz - "12dB" attenuation is required.
 - 2100MHz (AWS-3)- "12dB" attenuation is required.
 - 850MHz - "12dB" attenuation is required.
 - 3840MHz - "12dB" attenuation is required.
 - 1900MHz - "9dB" attenuation is required.



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- 700(B12) MHz - "9dB" attenuation is required.

AT&T Mobility Gamma Sector:

- To mitigate excess MPE from Main Roof Level, choose one of the below option(s):

- Option-1:

- Barrier **18ft** "6ft x 6ft x 6ft" required with Four Posts with Caution 2 Signs posted on the top of each Post facing outwards so approaching people can see as shown in "Recommendations Map - Detailed View" in Section 6.1.2. This barrier is not connected towards the parapet because existing parapet is less than 39" and as per "AT&T's Unprotected Roof Edge Policy", barriers must stop 6' away from unprotected roof edge. (4 Total Signs)

- Option-2: follow below listed action(s):

- 2100MHz (AWS-1)- "12dB" attenuation is required.
 - 2300MHz - "12dB" attenuation is required.
 - 2100MHz (AWS-3)- "12dB" attenuation is required.
 - 850MHz - "12dB" attenuation is required.
 - 3840MHz - "12dB" attenuation is required.
 - 1900MHz - "9dB" attenuation is required.
 - 700(B12) MHz - "9dB" attenuation is required.

Access:

- No additional actions required.

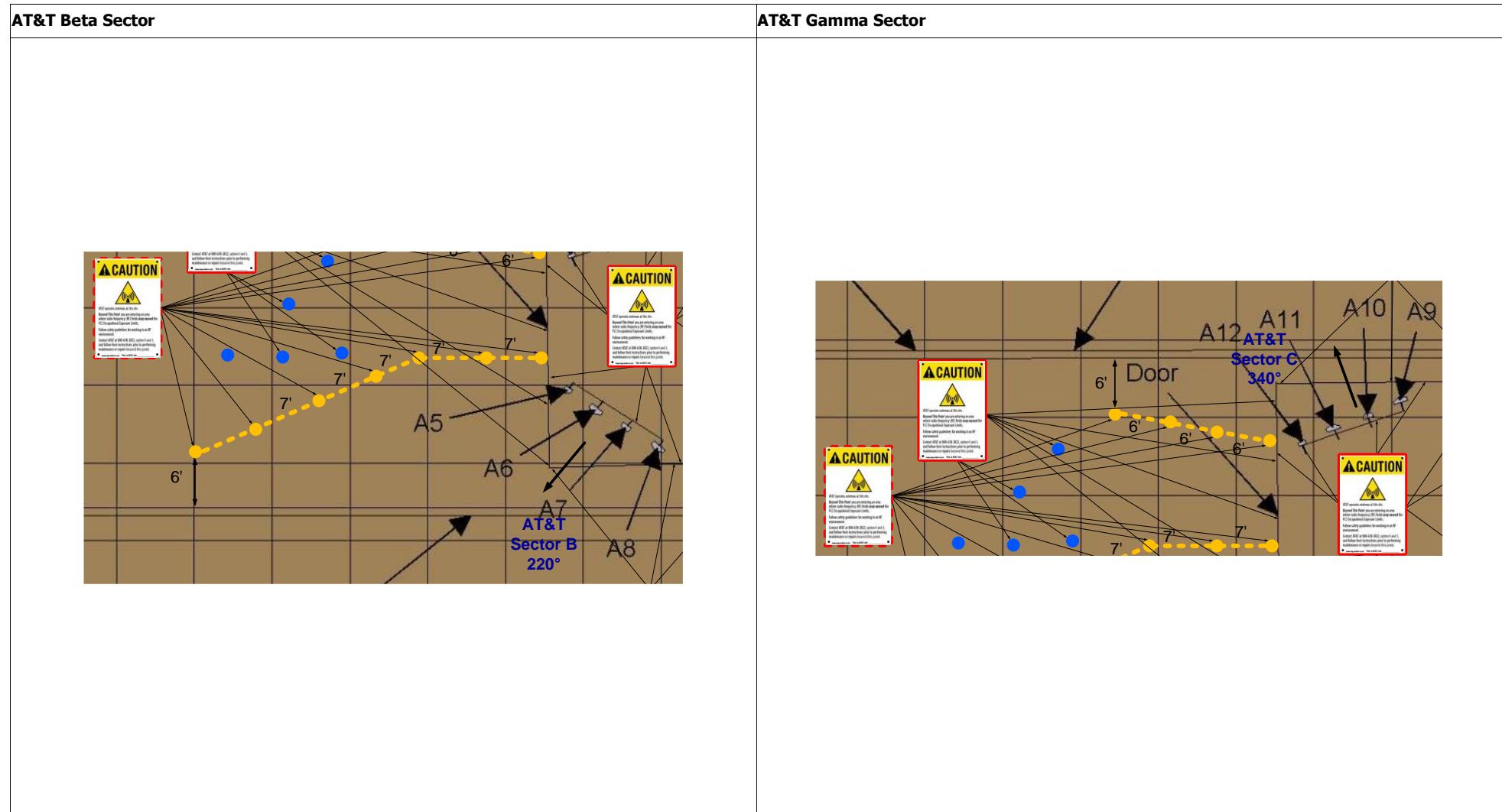


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6.1.2 Recommendations Map - Detailed View



Legend	"A"-AT&T	"T"-T-Mobile	"V"-VERIZON	"S"-SPRINT	"U"-USCC	"D"-DISH WIRELESS	"UK"-Unknown/Other Carrier	Microwave	"UK"-Omni	Map Scale = 10 ft											
Existing Signage									Proposed Signage												
Existing Barrier Posts	Proposed Barrier Posts	Remove Sign	Info 1	Info 2	Safety Instructions	Notice 1	Notice 2	Caution 1	Caution 2	Caution 2A	Caution 2C	Warning 1	Caution 2B	Notice 2D Adjacent	Caution 2	Caution 2A	Caution 2B	Caution 7"x7"	Caution 2D Adjacent	RF Exposure Map	Lock

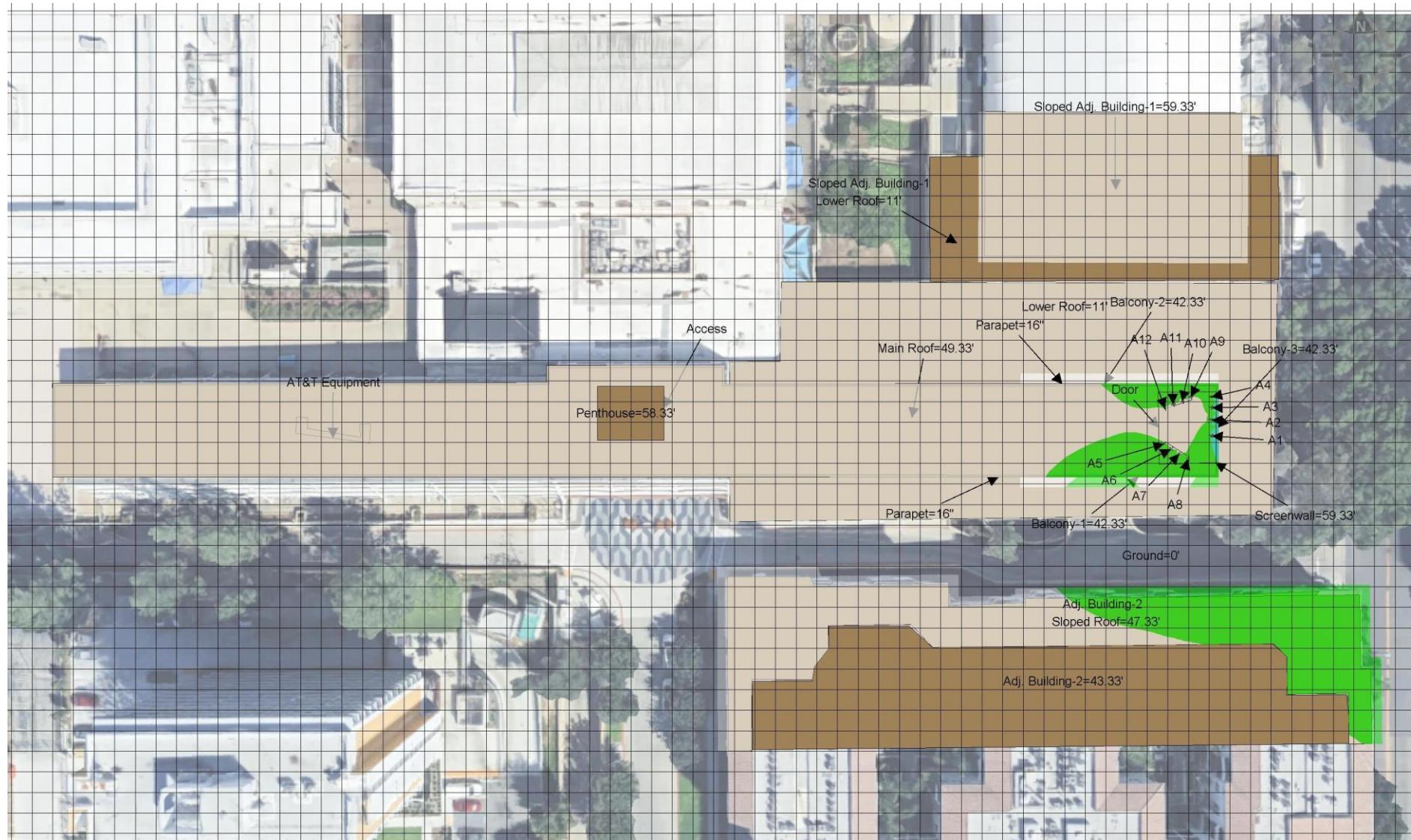


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6.1.3 Predictive Cumulative RF Exposure from All Sources AFTER implementing recommended mitigation at Sector B & C:



% of FCC General Public Exposure Limit (Predictive Spatial Average)

Existing Barrier
Existing Posts

Non-Simulated	0-5	5-100	100-500	500-5000	>5000

Map Scale = 10 ft

Proposed Barrier
Proposed Posts



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6.1.4 Signage Removal

AT&T Mobility Alpha Sector:

- No additional actions required.

AT&T Mobility Beta Sector:

- No additional actions required.

AT&T Mobility Gamma Sector:

- No additional actions required.

Access:

- No additional actions required.



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Appendix A – Statement of Limiting Conditions

MobileComm field personnel visited the site and collected data with regard to the RF environment. For MPE Measurements field personnel walked the accessible roof areas of site to determine approximate field strength levels and to identify any areas with higher levels exceeding FCC MPE limits and then determined spatially averaged field levels in areas with highest fields and documented in report. MobileComm will not be responsible for matters of a legal nature that affect the site or property. The property was visited under the premise that it is under responsible ownership and management and our client has the legal right to conduct business at this facility.

Due to the complexity of some wireless sites, MobileComm performed this visit and created this report utilizing best industry practices and due diligence. MobileComm cannot be held accountable or responsible for anomalies or discrepancies due to actual site conditions (i.e., mislabeling of antennas or equipment, inaccessible cable runs, inaccessible antennas or equipment, etc.) or information or data supplied by AT&T, the site manager, or their affiliates, subcontractors or assigns.

MobileComm has provided computer generated model(s) in this Site Compliance Report to show approximate dimensions of the site, and the model is included to assist the reader of the compliance report to visualize the site area, and to provide supporting documentation for MobileComm's recommendations.

MobileComm may note in the Site Compliance Report any adverse physical conditions, such as needed repairs, observed during the survey of the subject property or that MobileComm became aware of during the normal research involved in performing this survey. MobileComm will not be responsible for any such conditions that do exist or for any engineering or testing that might be required to discover whether such conditions exist. Because MobileComm is not an expert in the field of mechanical engineering or building maintenance, the Site Compliance Report must not be considered a structural or physical engineering report. The RF MPE are valid and accurate for the time the measurements were taken for the site. MobileComm does not take any responsibility for FCC compliance of the site if the Radio conditions have changed after that time.

MobileComm obtained information used in this Site Compliance Report from sources that MobileComm considers reliable and believes them to be true and correct. MobileComm does not assume any responsibility for the accuracy of such items that were furnished by other parties. When conflicts in information occur between data provided by a second party and physical data collected by MobileComm, the physical data will be used.



Appendix B – Assumptions and Definitions

General Model Assumptions

In this site compliance report, it is assumed that all antennas are operating at full power at all times. AT&T has further recommended to assume a 75% duty cycle of maximum radiated power for all LTE & 5G carriers (& consider 100% duty cycle for all UMTS carriers).

AT&T recommended to consider - For C-BAND and/or DoD AAS antenna(s) 75% TDD duty Cycle, 1.5dB Power Tolerance & 0.32 Power Reduction factor¹ are used to calculate Transmitter Power & ERP/EiRP.

AT&T HQ recommended to use worst-case tilts for the simulations, but tilts used in this report analysis is as per market discretion.

1 Power Reduction Factor : IEC Standard 62232: 2017 allows for a statistically conservative power density model to more realistically define the RF exposure area. AT&T recommends a “0.32” factor to calculate the “Actual Maximum” (time averaged) power value, which accounts for “Beam Scanning,” “Scheduling,” and “RBS Utilization.” This recommended value is a conservative figure modelled and supported by other vendors and through measurements published in scientific articles and white papers by IEEE and others. Those publication are listed below:

1. IEEE Access, Time-Averaged Realistic Maximum Power Levels for the Assessment of RF Exposure for 5G Radio Base Stations Using Massive MIMO (Published Sept. 18, 2017 / BJÖRN THORS, ANDERS FURUSKÄR, DAVIDE COLOMBI, AND CHRISTER TÖRNEVIK)
2. IEEE Explore, A Statistical Approach for RF Exposure Compliance Boundary Assessment in Massive MIMO Systems (Published Jan. 25, 2018 / Paolo Baracca, Andreas Weber, Thorsten Wild, Christophe Grangeat)
3. IEEE Access, In-situ Measurement Methodology for the Assessment of 5G NR Massive MIMO Base Station Exposure at Sub-6 GHz Frequencies (Published Dec. 20, 2019 / SAM AERTS, LEEN VERLOOCK, MATTHIAS VAN DEN BOSSCHE, DAVIDE COLOMBI, LUC MARTENS, CHRISTER TÖRNEVIK AND WOUT JOSEPH)
4. Applied Sciences, Analysis of the Actual Power and EMF Exposure from Base Stations in a Commercial 5G Network (Published July 30, 2020 / Davide Colombi, Paramananda Joshi, Bo Xu, Fatemeh Ghasemifard, Vignesh Narasaraju and Christer Törnevik)
5. Ofcom Technical Report, Electromagnetic Field (EMF) measurements near 5G mobile phone base stations (Published Feb. 21, 2020 / Davide Colombi, Paramananda Joshi, Bo Xu, Fatemeh Ghasemifard, Vignesh Narasaraju and Christer Törnevik) MobileComm believes these areas to be safe for entry by occupationally trained personnel utilizing appropriate personal protective equipment (in most cases, a personal monitor).

Thus, at any time, if power density measurements were made, we believe the real time measurements would indicate levels below those depicted in the RF emission diagram(s) in this report. By modeling in this way, MobileComm has conservatively shown exclusion areas – areas that should not be entered without the use of a personal monitor, carriers reducing power, or performing real-time measurements to indicate real-time exposure levels.

Use of Generic Antennas

For the purposes of this report, the use of “Generic” as an antenna model, or “Other Carrier” for an operator means the information about a carrier, their FCC license and/or antenna information was not provided and could not be obtained while on site. In the event of unknown information, MobileComm will use our industry specific



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knowledge of equipment, antenna models, and transmit power to model the site. Information about similar facilities is used when the service is identified and associated with a particular antenna. If no information is available regarding the transmitting service associated with an unidentified antenna, using the antenna manufacturer's published data regarding the antenna's physical characteristics makes more conservative assumptions.

Where the frequency is unknown, MobileComm uses the closest frequency in the antenna's range that corresponds to the highest Maximum Exposure Limit (MPE), resulting in a conservative analysis.

3D Modeling

The 3D models in this report are created on a best-effort basis using available data sources, including construction drawings and Google Earth 3D/2D. While MobileComm strives for accuracy, MobileComm makes no warranties regarding completeness or precision. MobileComm is not liable for errors arising from data source inaccuracies. This report is for RF exposure analysis and compliance assessment only.



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Appendix C – Measurement Equipment



Wavecontrol Electromagnetic Field Meter SMP can make rapid conformance measurements with evaluation in the time domain when used in conjunction WPF60S probe. This probe is a so-called Shaped Probe, i.e., it is frequency weighted so that it automatically takes account of the FCC General public/Occupational limit values in the frequency range from 1MHz to 60 GHz.

Field Measurement Process:

To collect data, the probe is pointed towards the potential source(s) of EME radiation and moved slowly from ground level up to slightly above head height (approx. 7 ft). The time taken to move the probe from ground level to head height is roughly 15 seconds. This allows for maximum and average exposure levels to be measured and recorded by the unit. The procedure should be repeated at least three times, one for each sector and should be stored as three different reference #'s, ideally a minimum of 7 data points should be recorded for each reference #.



Appendix D – Rules & Regulations

Explanation of Applicable Rules and Regulations

FCC has set forth guidelines in OET Bulletin 65 for human exposure to radio frequency electromagnetic fields. Currently, there are two different levels of MPE - General Public MPE and Occupational MPE. An individual classified as Occupational can be defined as an individual who has received appropriate RF training and meets the conditions outlined below. General Public is defined as anyone who does not meet the conditions of being Occupational. FCC Rules and Regulations define compliance in terms of total exposure to total RF energy, regardless of location of or proximity to the sources of energy.

It is the responsibility of all licensees to ensure these guidelines are maintained at all times. It is the ongoing responsibility of all licensees composing the site to maintain ongoing compliance with FCC rules and regulations. A building owner or site manager can use this report as part of an overall RF Health and Safety Policy. It is important for building owners/site managers to identify areas in excess of the General Population MPE and ensure that only persons qualified as Occupational are granted access to those areas.

Occupational Environment Explained

The FCC definition of Occupational exposure limits apply to persons who:

- are exposed to RF energy as a consequence of their employment;
- have been made aware of the possibility of exposure; and
- can exercise control over their exposure.

FCC guidelines go further to state that persons must complete RF Safety Awareness training and must be trained in the use of appropriate personal protective equipment. In order to consider this site an Occupational Environment, the site must be controlled to prevent access by any individuals classified as the General Public. Compliance is also maintained when any non-occupational individuals (the General Public) are prevented from accessing areas indicated as Red or Yellow in the attached RF Emissions diagram. In addition, a person must be aware of the RF environment into which they are entering. This can be accomplished by an RF Safety Awareness class, and by appropriate written documentation such as this Site Compliance Report.



Appendix E – General Safety Recommendations

The following are general recommendations appropriate for any site with accessible areas in excess of 100% General Public MPE. These recommendations are not specific to this site. These are safety recommendations appropriate for typical site management, building management, and other tenant operations.

1. All individuals needing access to the main site should be instructed to read and obey all posted placards and signs.
2. The site should be routinely inspected and this or similar report updated with the addition of any antennas or upon any changes to the RF environment including:
 - adding new antennas that may have been located on the site
 - removing of any existing antennas
 - changes in the radiating power or number of RF emitters

3. Post the appropriate SAFETY INSTRUCTIONS, NOTICE, CAUTION & WARNING sign at the main site access point(s) and other locations as required. Note: Please refer to RF Exposure Diagrams in Appendix B, to inform everyone who has access to this site that beyond posted signs there may be levels in excess of the limits prescribed by the FCC. The signs below are examples of signs meeting FCC guidelines.



4. Ensure that the site door remains locked (or appropriately controlled) to deny access to the general public if deemed as policy by the building/site owner.
5. For a General Public environment the four color levels identified in measured RF emission diagram can be interpreted in the following manner:
 - Green represents areas predicted to be greater than or equal to 0% and less than 100% of the MPE general public limits
 - Blue represents areas predicted to be greater than or equal to 100% and lesser than 500% of the MPE general public limits.
 - Yellow represents areas predicted to be greater than or equal to 500% and lesser than 5000% of the MPE general public limits.
 - Red areas indicates predicted levels greater than or equal to 5000% of the MPE general public limits.



Appendix F – References

1 - FCC Definition

FCC defines an Occupational or Controlled environment as one where persons are exposed to RF fields as a consequence of their employment and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Typical criteria for an Occupational or Controlled environment is restricted access (i.e. locked doors, gates, etc.) to areas where antennas are located coupled with proper RF warning signage.

FCC defines a site as a General Public or Uncontrolled environment when human exposure to RF fields occurs to the general public or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over the exposure. Typical criteria for a General Public or Uncontrolled environment are unrestricted access (i.e. unlocked or no restrictions) to areas where antennas are located without proper RF warning signage being posted.

2 - Physical Testing measurement procedure and Tools

To collect physical measurements, the probe is pointed towards the potential source(s) of EME radiation and moved slowly from ground level up to slightly above head height (approx. 6 ft).

Spatial Average Measurement A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy an average sized human body will absorb while present in an electromagnetic field of energy .

3 - Site Safety Procedures

The following items are general safety recommendations that should be administered on a site by site basis as needed by the carrier.

General Maintenance Work: Any maintenance personnel required to work immediately in front of antennas and / or in areas indicated as above 100% of the Occupational MPE limits should coordinate with the wireless operators to disable transmitters during their work activities.

Training and Qualification Verification: All personnel accessing areas indicated as exceeding the General Population MPE limits should have a basic understanding of EME awareness and RF Safety procedures when working around transmitting antennas. Awareness training increases a workers understanding to potential RF exposure scenarios. Awareness can be achieved in a number of ways (e.g. videos, formal classroom lecture or internet based courses).

Physical Access Control: Access restrictions to transmitting antennas locations is the primary element in a site safety plan. Examples of access restrictions are as follows:

- Locked door or gate
- Alarmed door
- Locked ladder access



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- Restrictive Barrier at antenna locations (e.g. Chain link with posted RF Sign)

RF Signage: Everyone should obey all posted signs at all times. RF signs play an important role in properly warning a worker prior to entering into a potential RF Exposure area.

Assume all antennas are active: Due to the nature of telecommunications transmissions, an antenna transmits intermittently. Always assume an antenna is transmitting. Never stop in front of an antenna. If you have to pass by an antenna, move through as quickly and safely as possible thereby reducing any exposure to a minimum.

Maintain a 3 feet clearance from all antennas: There is a direct correlation between the strength of an EME field and the distance from the transmitting antenna. The further away from an antenna, the lower the corresponding EME field is.

Rooftop RF Emissions Diagram: Section 5 of this report contains an RF Emissions Diagram that outlines various theoretical Maximum Permissible Exposure (MPE) areas on the rooftop. This analysis is all theoretical and a worst-case scenario. This analysis is based on one of two access control criteria: General Public criteria means the access to the site is uncontrolled and anyone can gain access. Occupational criteria means the access is restricted and only properly trained individuals can gain access to the antenna locations.

4 - Definitions

5% Rule - The rules adopted by the FCC specify that, in general, at multiple transmitter sites actions necessary to bring the area into compliance with the guidelines are the shared responsibility of all licenses whose transmitters produce field strengths or power density levels at the area in the question in excess of 5% of the exposure limits. In other words, any wireless operator that contributes 5% or greater of the MPE limit in the area corrective actions to bring the site into compliance

Ground Level Excess MPE (Predictive) Rule – When performing predictive analysis and found the MPE% exceeds 100% of GP Limit then AT&T recommends to follow ON-SITE Measurements (for the area in question). If any individual ground level MPE measurement (spatial average) exceed 50% of GP Limit then only recommend power reduction in order to eliminate the immediate risk on the ground, otherwise consider area to be compliant.

Compliance- The determination of whether a site is safe or not with regards to Human Exposure to Radio Frequency Radiation from transmitting antennas.

Decibel (dB) – A unit for measuring power or strength of a signal.

Duty Cycle – The percent of pulse duration to the pulse period of a periodic pulse train. Also, may be a measure of the temporal transmission characteristic of an intermittently transmitting RF source such as a paging antenna by dividing average transmission duration by the average period for transmission. A duty cycle of 100% corresponds to continuous operation.

Effective (or Equivalent) Isotropic Radiated Power (EIRP) – The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna, this product is divided by the cable losses

Effective Radiated Power (ERP) – In a given direction, the relative gain of a transmitting antenna with respect to the maximum directivity of a half wave dipole multiplied by the net power accepted by the antenna from the connecting transmitter.



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Gain (of an antenna in dbd) – *The ratio of the maximum intensity in a given direction to the maximum radiation in the same direction from a reference dipole. Gain is a measure of the relative efficiency of a directional antennas as compared to a reference dipole.*

General Population/Uncontrolled Environment – *Defined by the FCC, as an area where RFR exposure may occur to persons who are unaware of the potential for exposure and who have no control of their exposure. General Population is also referenced as General Public.*

Generic Antenna – *For the purposes of this report, the use of “Generic” as an antenna model means the antenna information was not provided and could not be obtained while on site. In the event of unknown information, MobileComm will use our industry specific knowledge of antenna models to select a worst case scenario antenna to model the site.*

Isotropic Antenna – *An antenna that is completely non-directional. In other words, an antenna that radiates energy equally in all directions.*

Maximum Measurement – *This measurement represents the single largest measurement recorded when performing a spatial average measurement.*

Maximum Exposure Limit (MPE) – *The RMS and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with acceptable safety factor.*

Occupational/Controlled Environment – *Defined by the FCC, as an area where Radio Frequency Radiation (RFR) exposure may occur to persons who are aware of the potential for exposure as a condition of employment or specific activity and can exercise control over their exposure.*

Radio Frequency Radiation – *Electromagnetic waves that are propagated from antennas through space.*

Spatial Average Measurement – *A technique used to average a minimum of ten (10) measurements taken in a ten (10) second interval from zero (0) to six (6) feet. This measurement is intended to model the average energy an average sized human body will absorb while present in an electromagnetic field of energy.*

Transmitter Power Output (TPO) – *The radio frequency output power of a transmitter’s final radio frequency stage as measured at the output terminal while connected to a load.*



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Appendix G – Calibration Certificates

CERTIFICATE OF CALIBRATION

Number **NE24/02635**

Page 1 of 5 pages

LabCal - Wavecontrol
Radio-electric Calibration Laboratory
C/ Pallars 65-71
08018 Barcelona

WAVECONTROL

ITEM	EM Field Meter + Isotropic EM Field Probe
BRAND	Wavecontrol
MODEL	Meter: SMP2 Probe: WPF60S
IDENTIFICATION	Meter: 22SN1900 Probe: 22WP220028
APPLICANT	Krishna Yaganti 465 West President George Bush Hwy, #200 Richardson, TX, 75080 (United States)
DATE/S OF CALIBRATION	25/3/2024

Authorized Signatories

David Guayerbas
Laboratory Technician

Date of issue: 25/03/2024

Document certified by
ALEJANDRO CLUSA MORENO
alejandro.clusa.moreno@wavecontrol.com
Digitally signed by
ALEJANDRO CLUSA
MORENO
Date: 25/03/26
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Reason: Wavecontrol
Location: Barcelona

Laboratory Director

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