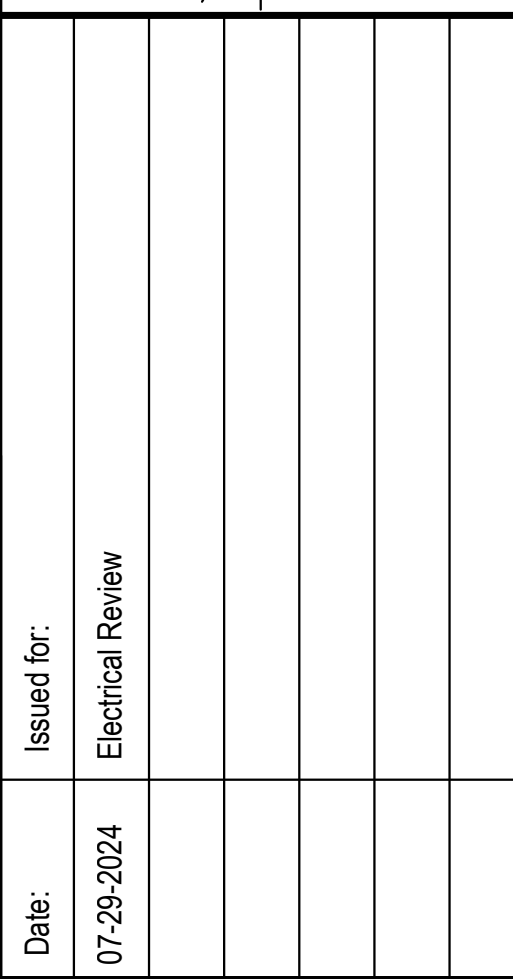


New Interior Renovation for the Chase Building:

400 Riverview Drive
Benton Harbor, Michigan 49022

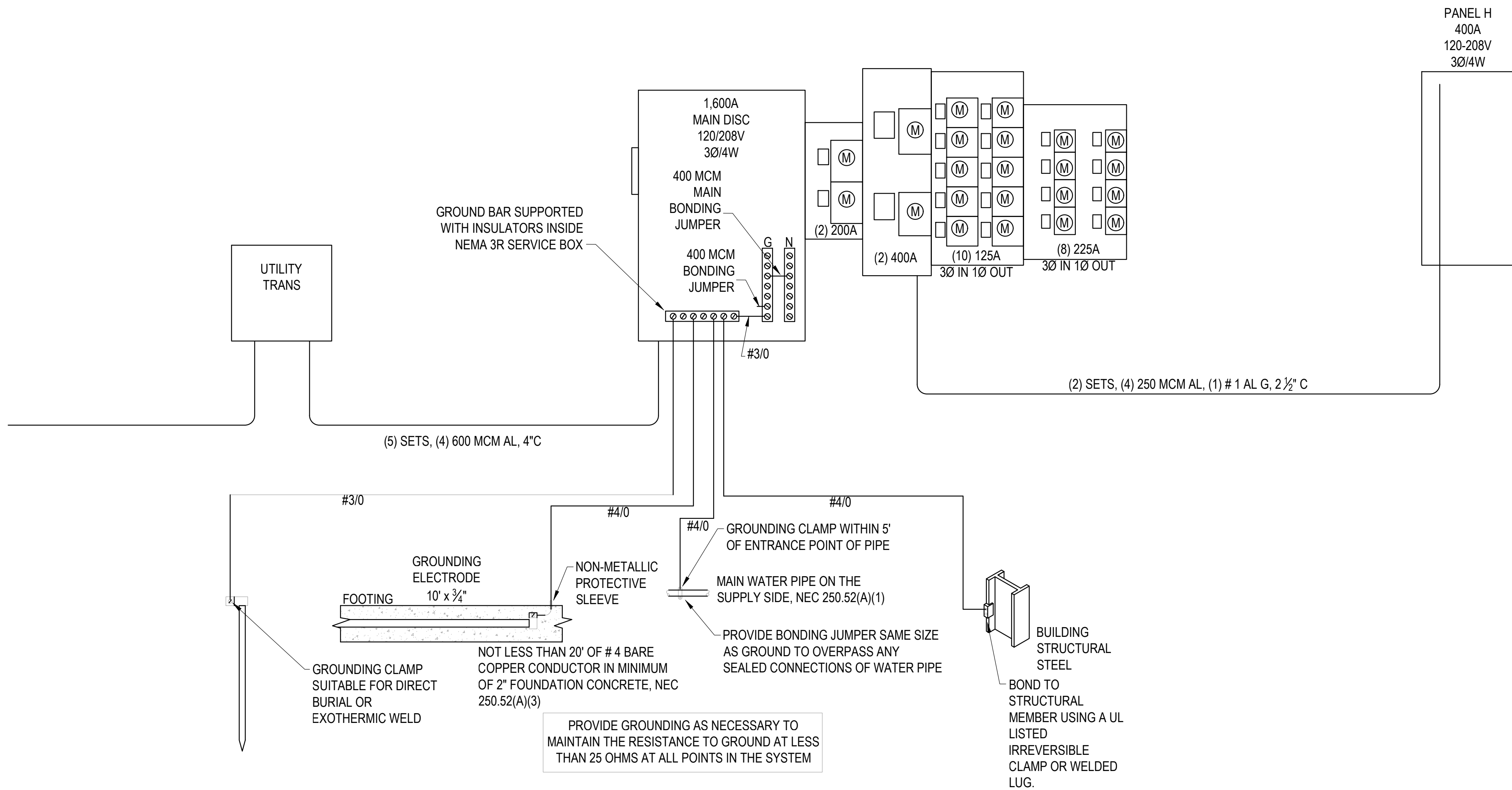
**EMERGENCY
LIGHTING PLAN**
 $\frac{1}{8}" = 1' - 0"$



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Stevensville, Michigan 49127
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(269) 429-7000

E101

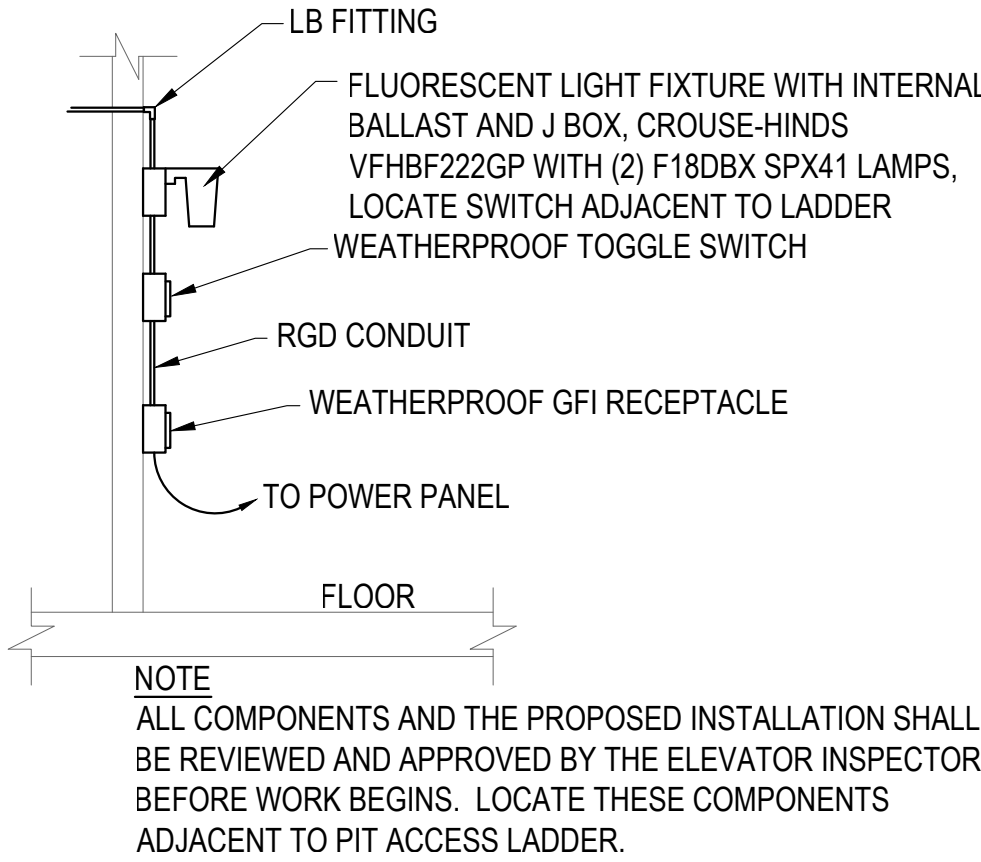
1.	ALL WORK IS TO BE PERFORMED IN STRICT ACCORDANCE WITH THE 2017 NATIONAL ELECTRIC CODE, STATE LAWS, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.	7.	ALL POWER WIRING SHALL BE STRANDED COPPER CONDUCTOR WITH THHN INSULATION RATED 600 VOLTS. MINIMUM WIRE SIZE, #12 AWG.
2.	IN GENERAL, THIS PROJECT IS THE RENOVATION OF AN EXISTING SPACE IN AN EXISTING BUILDING. EXISTING PANELS AND CIRCUITS WILL BE REUSED TO SUIT THE REVISED LAYOUT, NEW CIRCUITS WILL BE ADDED AS NECESSARY. EXISTING RECEPTACLES IN EXISTING WALLS WILL REMAIN IN SERVICE "AS IS".	8.	INCREASE WIRE SIZES NOTED ON PLANS OR IN SCHEDULES AS REQUIRED BY CODE FOR LONG RUNS.
3.	THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL WORK, MATERIAL, AND LABOR TO ESTABLISH COMPLETE AND PROPERLY WORKING SYSTEMS.	9.	USE RIGID PVC CONDUIT WHERE BURIED IN CONCRETE, MASONRY, OR OUTDOORS.
4.	THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, APPLICATIONS AND FEES AS MAY BE NECESSARY TO COMPLETE THE WORK.	10.	THE ELECTRICAL CONTRACTOR SHALL PROPERLY GROUND ALL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.
5.	FINAL ROUTING OF ALL CONDUITS SHALL BE ESTABLISHED BY THE ELECTRICAL CONTRACTOR IN COORDINATION WITH THE WORK OF ALL OTHER TRADES.	11.	ALL RECEPTACLES IN BATHROOMS, AND KITCHENS SHALL BE GFI TYPE.
6.	FIELD MOUNTED DEVICES SUCH AS SWITCHES, MOTOR STARTERS, RECEPTACLES, ETC., ARE SHOWN IN THEIR APPROXIMATE LOCATIONS UNLESS NOTED TO THE CONTRARY ON THE PLANS. COORDINATE EXACT LOCATIONS BASED ON ACTUAL FIELD CONDITIONS.	12.	ALL MATERIALS AND EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE NEW AND UL APPROVED FOR THE INTENDED USE.
		13.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE NEW UNDERGROUND POWER SERVICE WITH THE ELECTRIC UTILITY COMPANY.
		14.	THE CONTRACTOR SHALL PERFORM ALL REQUIRED TESTING OF ALL ELECTRICAL SYSTEMS.



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○ KEYED NOTES:

1. TO ELEVATOR SMOKE DETECTOR CABLE JUNCTION BOX.
2. 120V CIRCUIT (DEDICATED) FOR ELEVATOR LIGHTS AND VENTILATION.
3. LOCKABLE SWITCH, SQUARE D #2510FGI.
4. TELEPHONE OUTLET FOR ELEVATOR EMERGENCY PHONE. PROVIDE A ¾" CONDUIT TO ACCESSIBLE CEILING SPACE.
5. ELEVATOR SMOKE DETECTOR CABLE JUNCTION BOX.
6. 120V CIRCUIT (DEDICATED) WITH LOCKED "ON" CIRCUIT BREAKER FOR ELEVATOR SMOKE DETECTION SYSTEM.
7. CABLES FROM ELEVATOR SHAFT AND FLOOR ELEVATOR LOBBIES, NUMBER AS REQUIRED.
8. EC TO FURNISH AND INSTALL ELEVATOR DEDICATED SMOKE DETECTORS AT THE TOP OF THE ELEVATOR SHAFT AND AT EACH LEVEL SERVED BY THE ELEVATOR. EC SHALL FURNISH & INSTALL FIRE ALARM CABLE AND 120V POWER TO EACH SMOKE DETECTOR.
9. ELEVATOR EQUIPMENT.
10. PROVIDE MAIN ELEVATOR SWITCH COMPLETE WITH AN AUXILIARY CONTACT AND WIRING TO ELEVATOR EQUIPMENT CONTROLLER. THE AUXILIARY CONTACT SHALL OPEN WHEN THE DISCONNECT SWITCH IS OPEN AND SHALL CAUSE THE EMERGENCY RETURN UNIT TO BE DISCONNECTED FROM ITS SOURCE.
11. VERIFY LOCATION AND CONNECTION OF ALL COMPONENTS WITH ELEVATOR INSPECTOR BEFORE PROCEEDING WITH THE INSTALLATION.
12. 120V CIRCUIT (DEDICATED) TO DOUBLE DUPLEX RECEPTACLE.
13. SEE DETAIL FOR ELEVATOR PIT LIGHTS AND POWER.



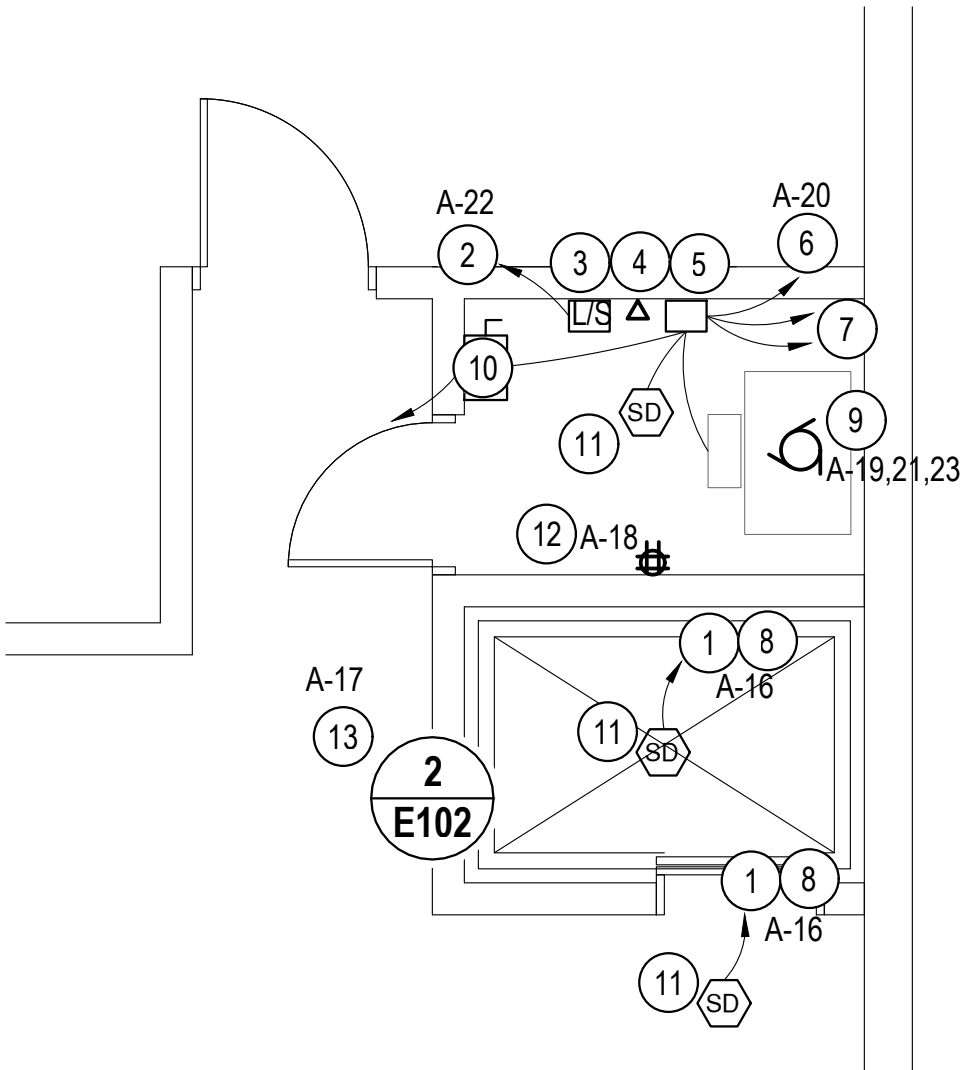
RECEPTACLE AND LIGHT FOR ELEVATOR PIT

2
E102

NO SCALE

ELEVATOR INSTALLATION NOTES:

1. EC SHALL FURNISH TEMPORARY POWER AS NECESSARY TO ALLOW COMPLETE INSTALLATION AND TESTING OF THE ELEVATOR AND ALL ASSOCIATED SYSTEMS.
2. ALL RECEPTACLES IN THE ELEVATOR EQUIPMENT ROOM AND HOISTWAY SHALL BE GFI PROTECTED.
3. VERIFY ACTUAL EQUIPMENT STARTING CURRENT VOLTAGE DROP DOES NOT EXCEED 10%. REPORT ANY DISCREPANCY IN WRITING.
4. COORDINATE INSTALLATION OF ALL COMPONENTS WITH ELEVATOR EQUIPMENT SUPPLIER AND ELEVATOR INSPECTOR BEFORE INSTALLATION.
5. THE ELEVATOR SMOKE DETECTION SYSTEM SHALL, UPON ACTIVATION OF ANY DETECTOR: a) SEND A SIGNAL TO THE BUILDING FIRE ALARM SYSTEM, b) SEND A SIGNAL TO THE ELEVATOR CONTROL PANEL WHICH, IN TURN SHALL CAUSE THE ELEVATOR CAR TO GO TO THE DESIGNATED EXIT LEVEL, STOP, AND OPEN THE DOORS.



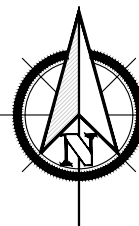
GENERIC ELEVATOR AND EQUIPMENT ROOM LAYOUT

1
E102

NO SCALE

NOTE:
THE PLAN SHOWN IS FOR A GENERIC ELEVATOR INSTALLATION. MODIFY AS NECESSARY FOR ACTUAL BUILDING LAYOUT.

ELECTRICAL ONE-LINE DIAGRAM AND PANEL SCHEDULES



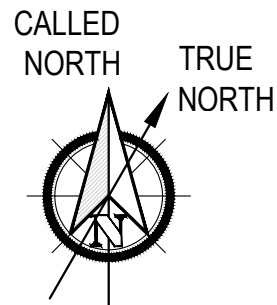
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New Interior Renovation
for the Chase Building:

White Box
Construction

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POWER FIRST AND
SECOND FLOOR PLANS
1/8" = 1' - 0"



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KEYED NOTES - E201

- INSURE CODE REQUIRED CLEARANCES FROM NEW WALL MOUNTED EQUIPMENT AND EXISTING PAD MOUNTED TRANSFORMER.
- ELECTRICAL CEILING HEATER BY OTHERS, COORDINATE EXACT REQUIREMENTS WITH MC.



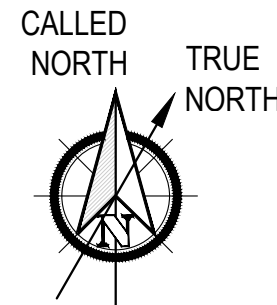
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New Interior Renovation
for the Chase Building:

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Construction

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POWER THIRD AND
FOURTH FLOOR PLANS
1/8" = 1' - 0"

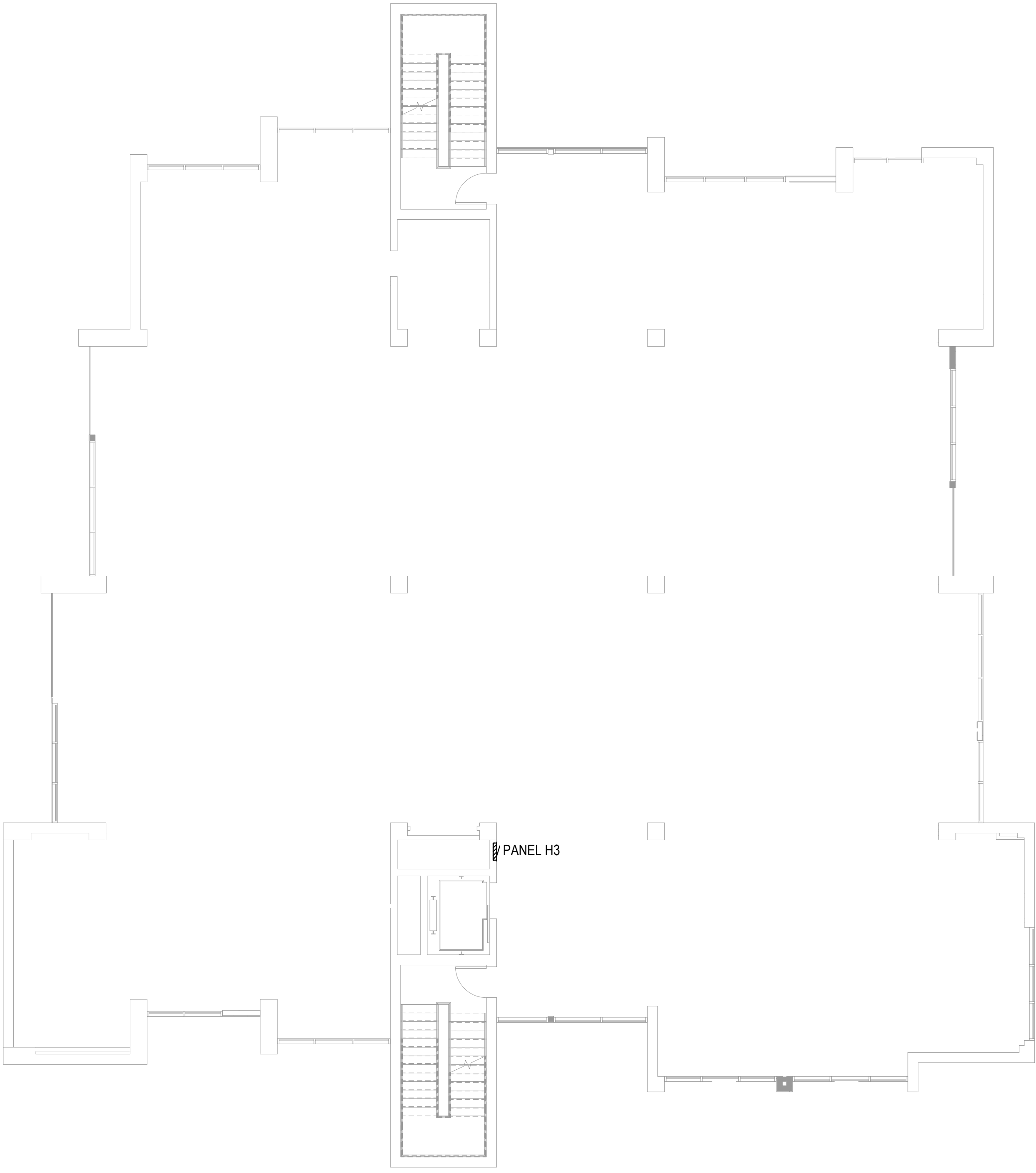
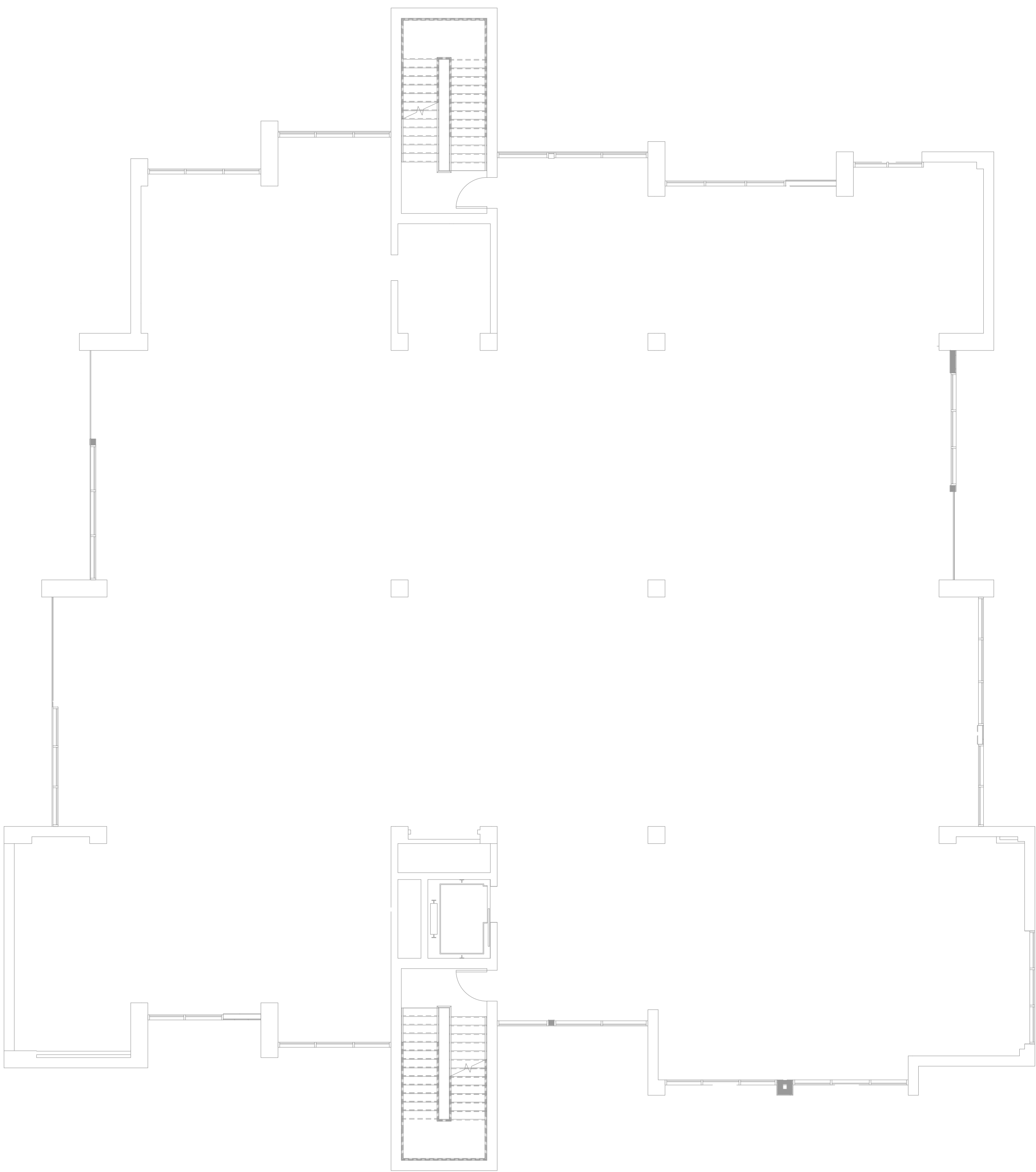


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- KEYED NOTES - E202
1. INSURE CODE REQUIRED CLEARANCES FROM NEW WALL MOUNTED EQUIPMENT AND EXISTING PAD MOUNTED TRANSFORMER.
 2. ELECTRICAL CEILING HEATER BY OTHERS, COORDINATE EXACT REQUIREMENTS WITH MC.



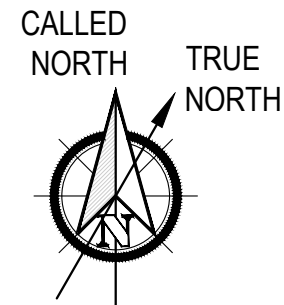
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New Interior Renovation
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White Box
Construction

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POWER FIFTH
FLOOR PLAN
1/8" = 1' - 0"



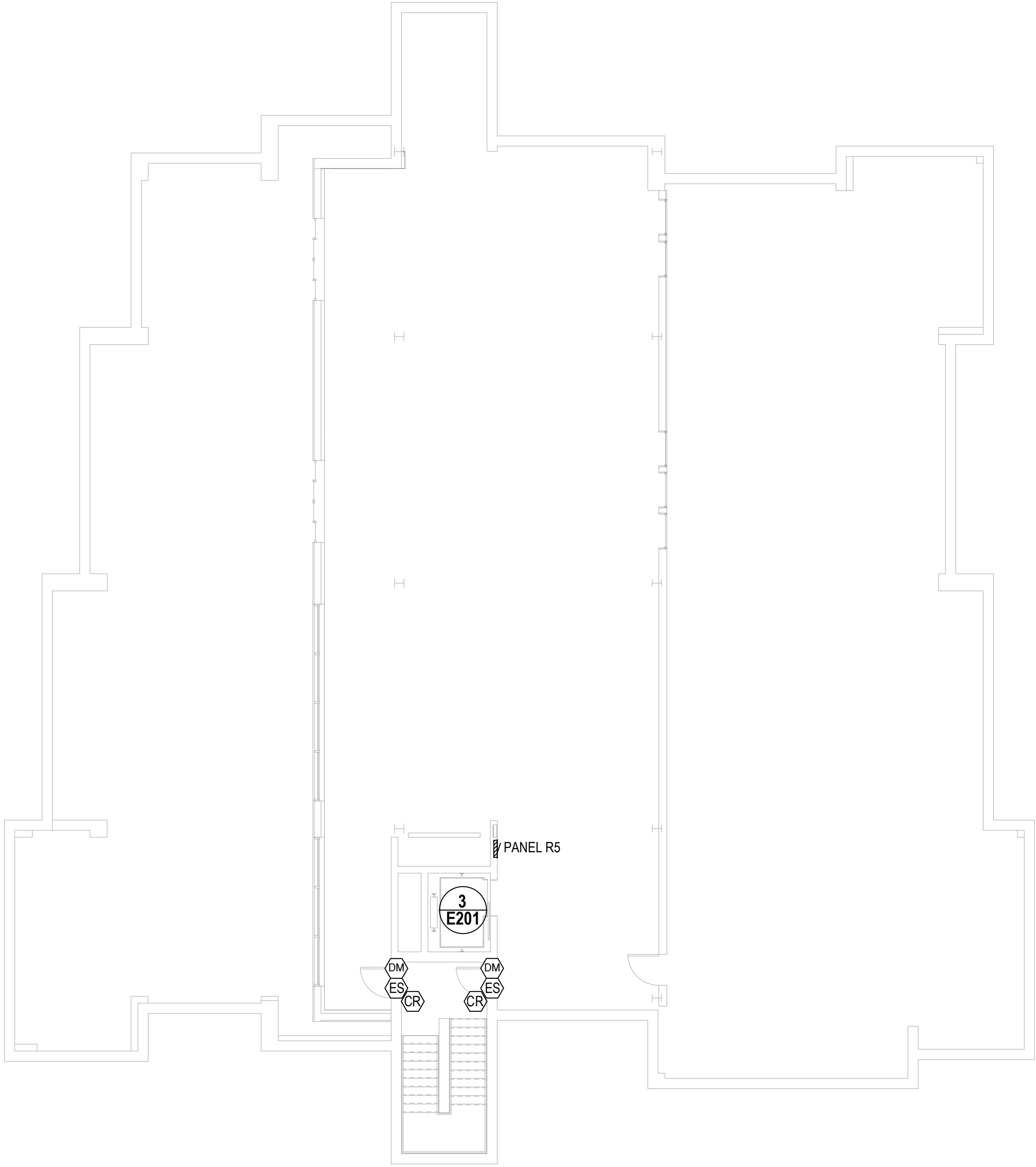
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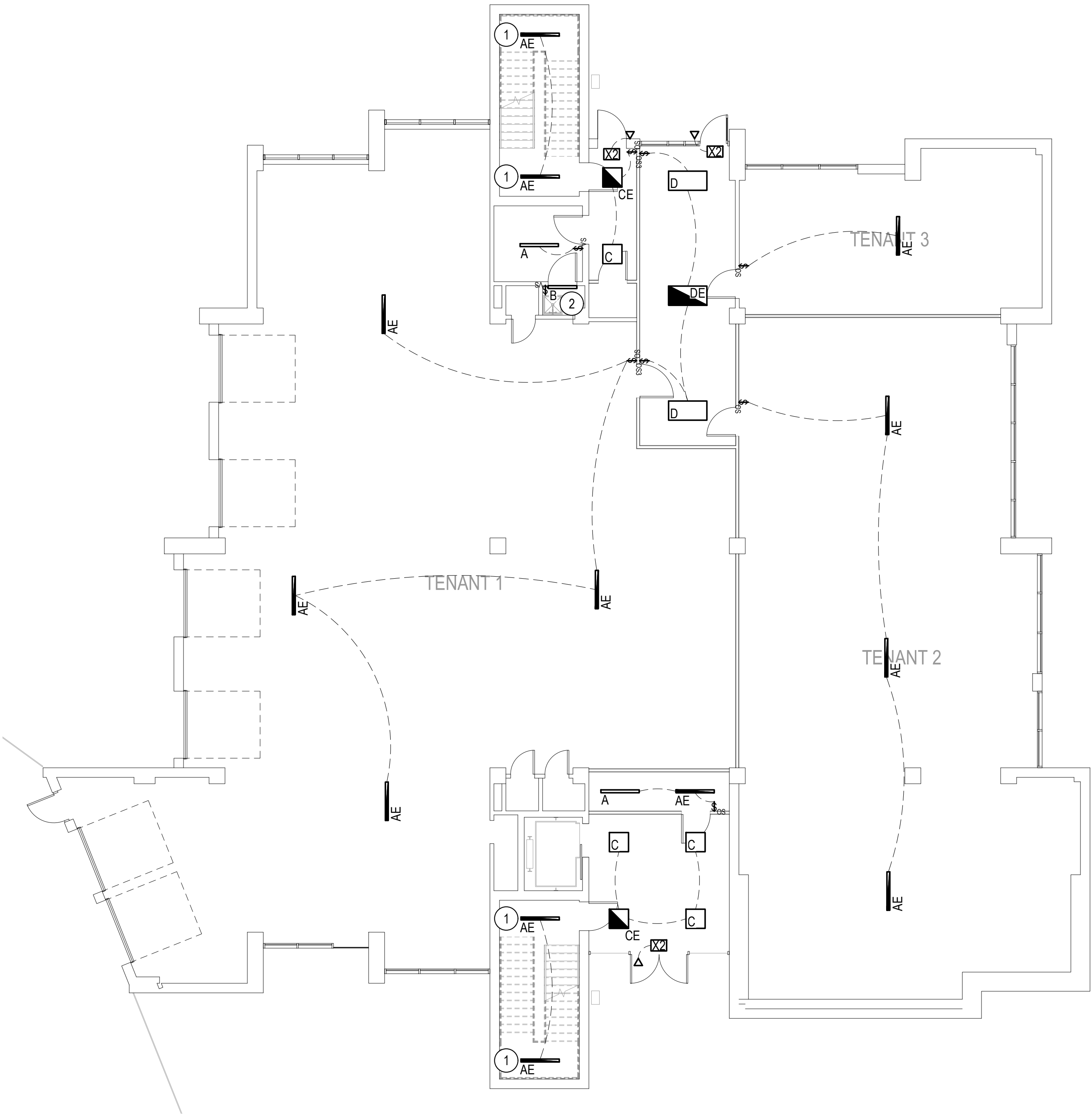
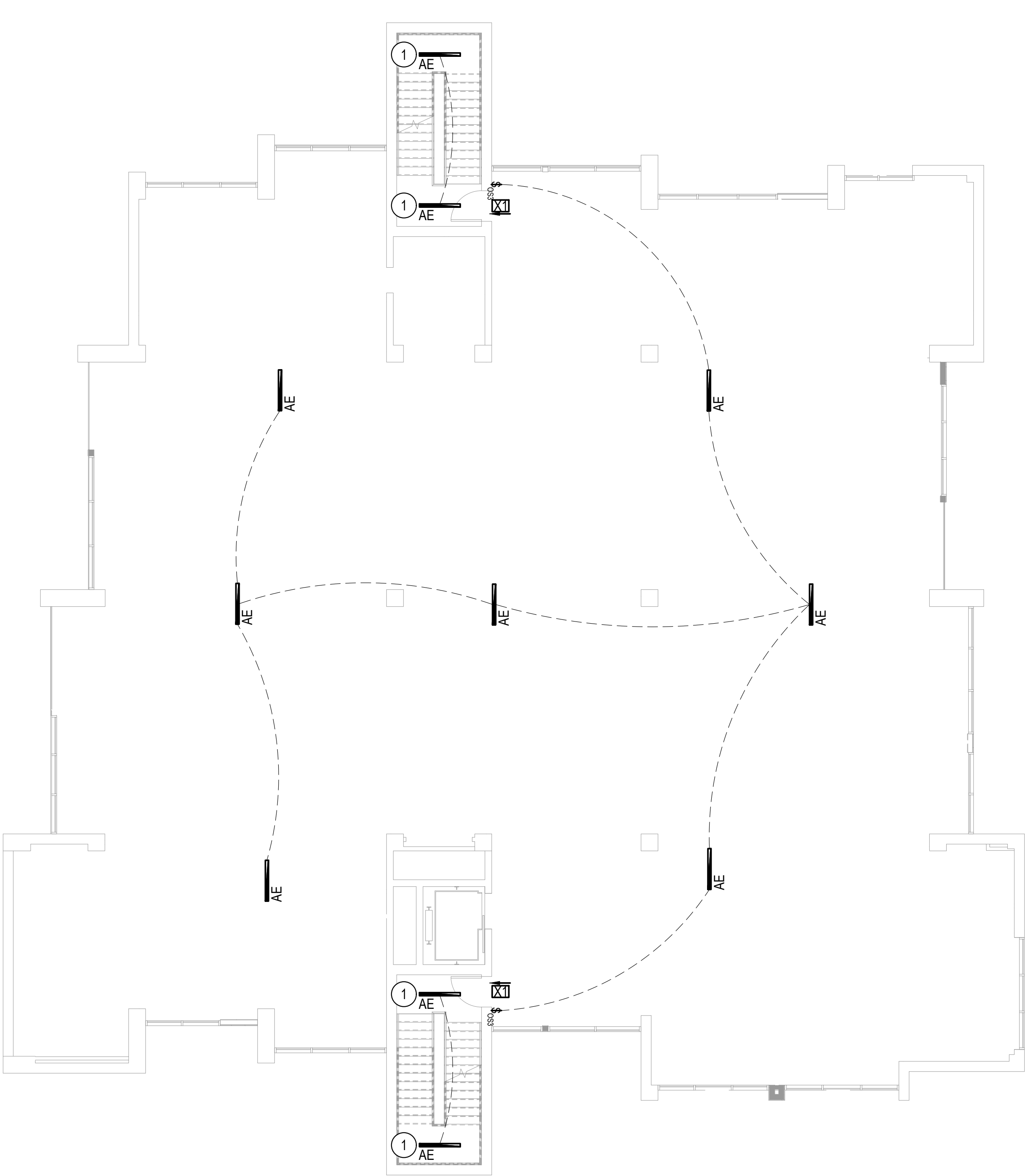
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KEYED NOTES - E203

- INSURE CODE REQUIRED CLEARANCES FROM NEW WALL MOUNTED EQUIPMENT AND EXISTING PAD MOUNTED TRANSFORMER.
- ELECTRICAL CEILING HEATER BY OTHERS, COORDINATE EXACT REQUIREMENTS WITH MC.



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- KEYED NOTES - E301
1. SURFACE MOUNT FIXTURE TO BOTTOM OF LANDING ABOVE.
 2. MOUNT FIXTURE ON WALL ABOVE DOOR.

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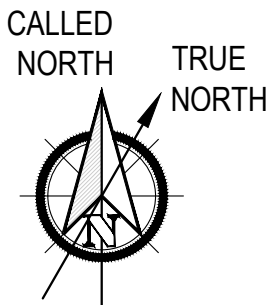
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New Interior Renovation
for the Chase Building:

White Box Construction

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Benton Harbor, Michigan 49022

LIGHTING FIRST AND
SECOND FLOOR PLANS
1/8" = 1' - 0"



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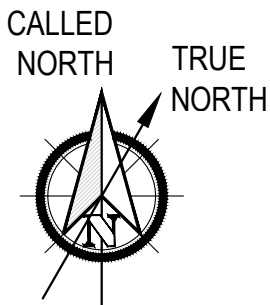
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New Interior Renovation
for the Chase Building:

White Box
Construction

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Benton Harbor, Michigan 49022

LIGHTING THIRD AND
FOURTH FLOOR PLANS
1/8" = 1' - 0"

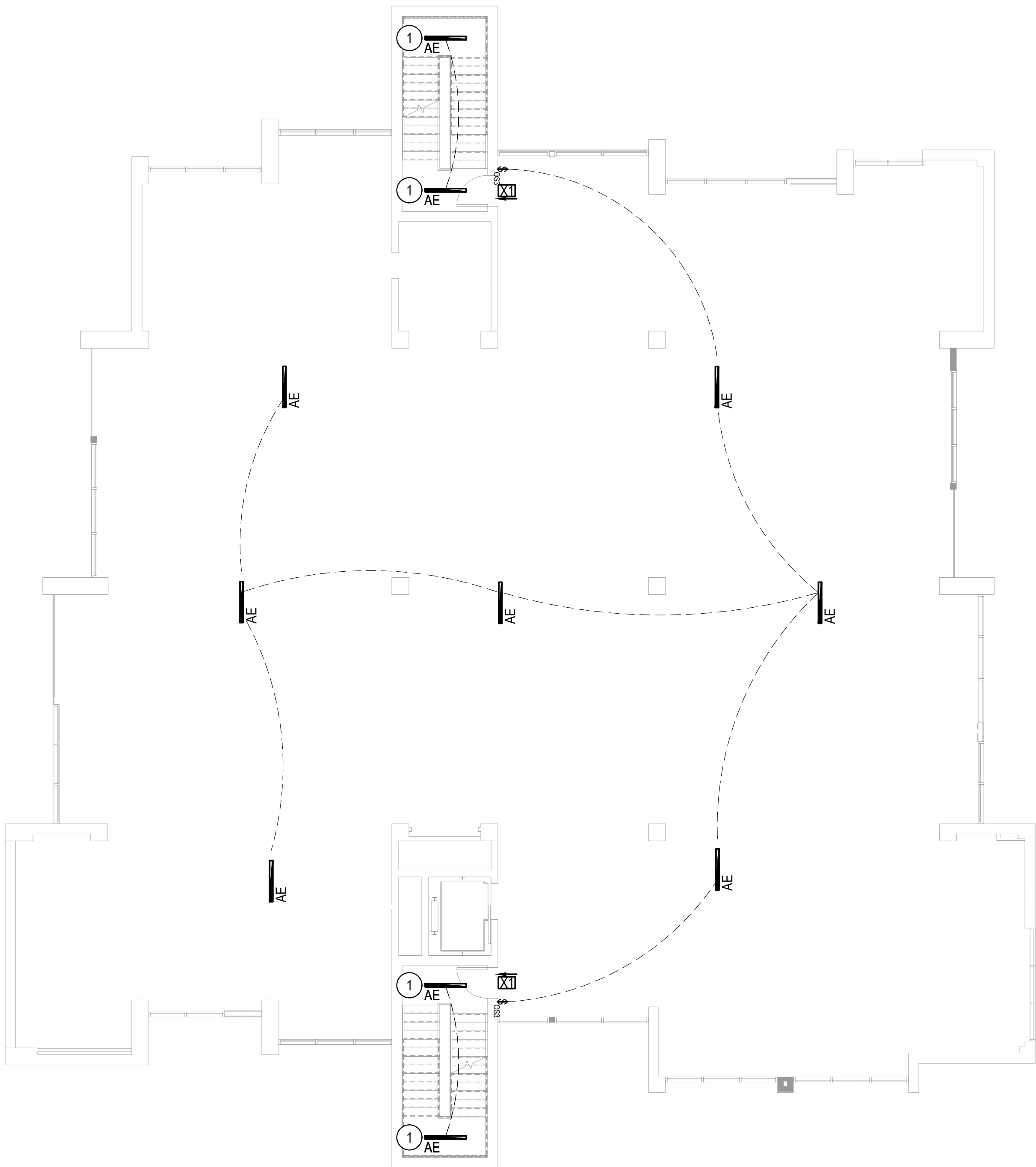
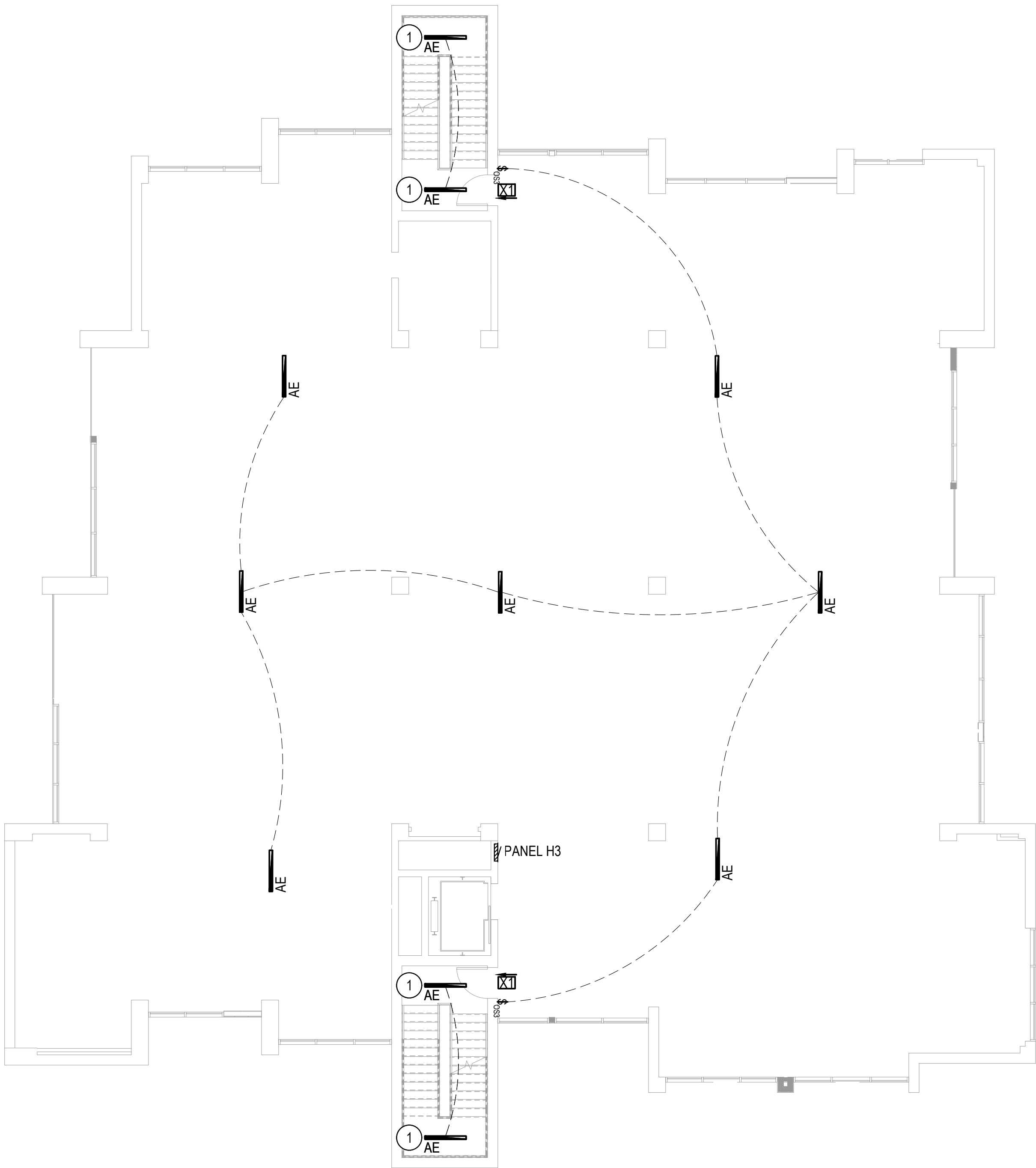


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- KEYED NOTES - E302
1. SURFACE MOUNT FIXTURE TO BOTTOM OF LANDING ABOVE.
 2. MOUNT FIXTURE ON WALL ABOVE DOOR.



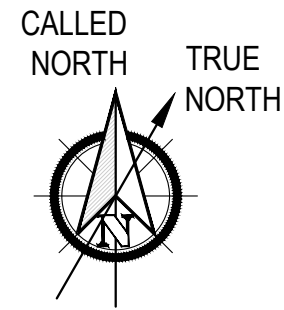
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New Interior Renovation
for the Chase Building:

White Box
Construction

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Benton Harbor, Michigan 49022

LIGHTING FIFTH
FLOOR PLAN
1/8" = 1' - 0"



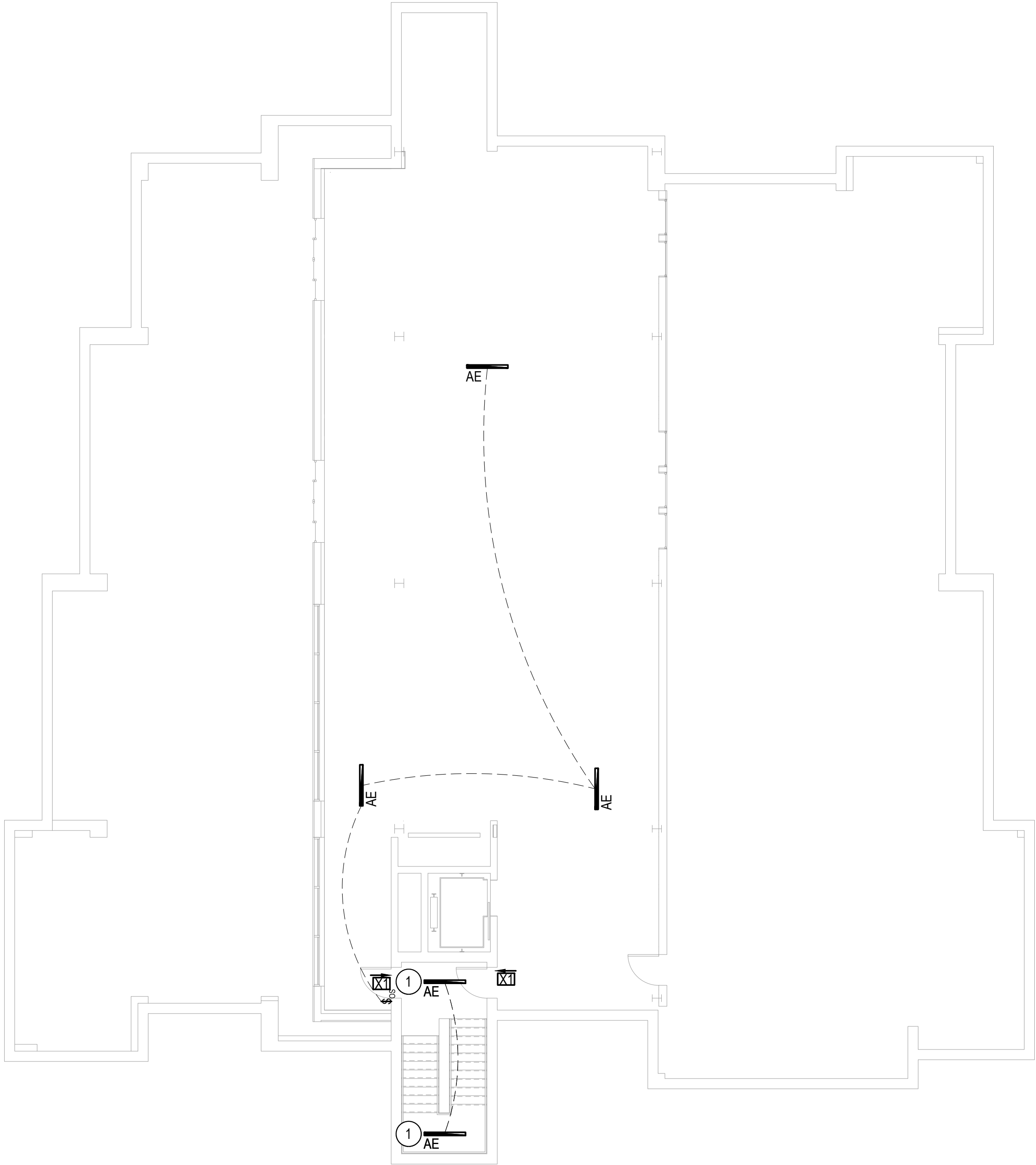
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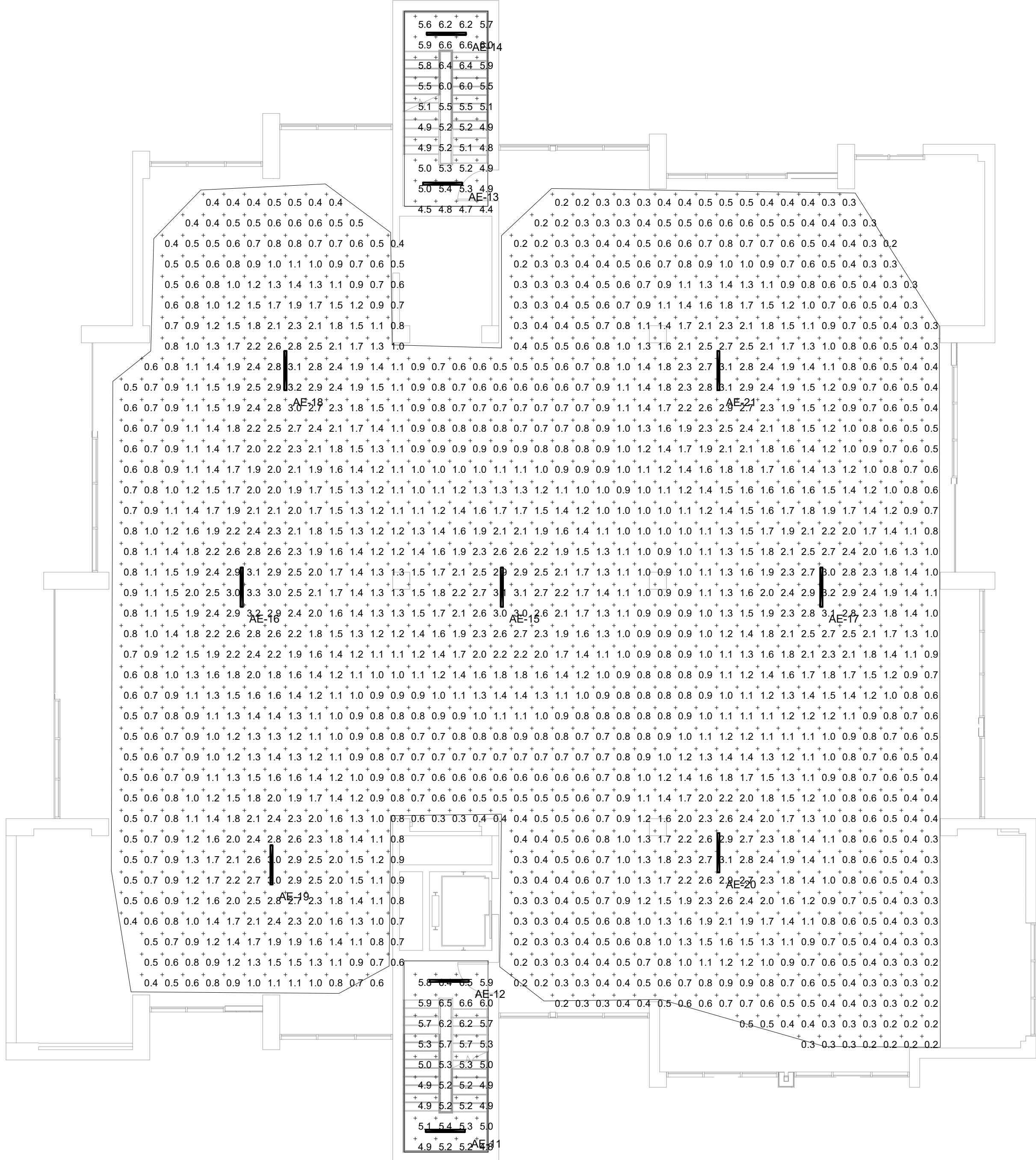
KEYED NOTES - E303

- SURFACE MOUNT FIXTURE TO BOTTOM OF LANDING ABOVE.
- MOUNT FIXTURE ON WALL ABOVE DOOR.



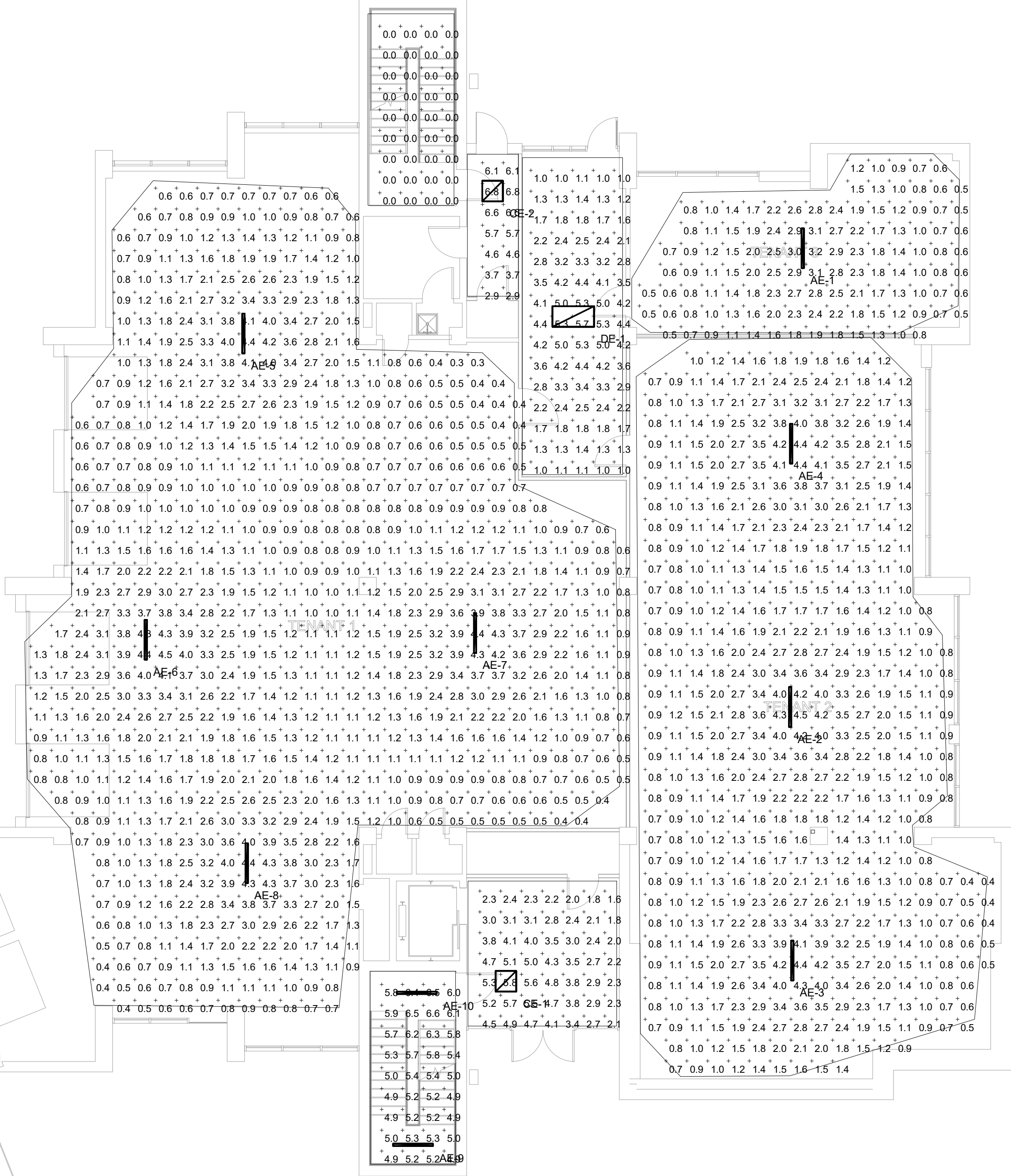
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Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Stair North	+	5.4 fc	8.6 fc	4.4 fc	1.6:1	1.2:1
Stair South	+	5.5 fc	8.6 fc	4.8 fc	1.4:1	1.1:1
Second Floor	+	1.2 fc	3.3 fc	0.2 fc	16.5:1	6.0:1

Schedule											
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	Intensity Multiplier	LLF	Total Output	Input Power
I	AE	11	Lithonia Lighting	CSS L48 AL03 (4000) MVOLT SWW3 (35) 80CRI	Contractor LED Single Strip, 48", Switchable Lumens, 4000LM, 120-277V, Switchable White, 35K, 80 CRI	7	678	1	0.29	4748	36.2358



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Stair South	+	5.5 fc	8.6 fc	4.9 fc	1.3:1	1.1:1
Tenant 1	+	1.6 fc	4.5 fc	0.3 fc	15.0:1	5.3:1
Tenant 2	+	1.8 fc	4.5 fc	0.4 fc	11.3:1	4.5:1
Tenant 3	+	1.5 fc	3.2 fc	0.5 fc	6.4:1	3.0:1
Vestibule Commercial	+	2.8 fc	5.7 fc	1.0 fc	5.7:1	2.8:1
Vestibule North	+	5.2 fc	6.8 fc	2.9 fc	2.3:1	1.8:1
Vestibule South	+	3.5 fc	5.8 fc	1.6 fc	3.6:1	2.2:1
Stair North	+	0.0 fc	0.0 fc	0.0 fc	N/A	N/A

Schedule											
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	Intensity Multiplier	LLF	Total Output	Input Power
I	AE	10	Lithonia Lighting	CSS L48 AL03 (4000) MVOLT SWW3 (35) 80CRI	Contractor LED Single Strip, 48", Switchable Lumens, 4000LM, 120-277V, Switchable White, 35K, 80 CRI	7	678	1	0.29	4748	36.2358
☐	CE	2	Lithonia Lighting	2BLT2 33L ADP LP850	2X2 BLT 3300, Curved ribbed, 62CRI 5000 K	1	3458	1	0.4	3458	26.48
☐	DE	1	Lithonia Lighting	CPANL 2x2 24/33/44LM 40K - 44LM	CPANL Switchable Lumen LED Flat Panel, 2x2, 24/33/44LM, 4000 K CCT, - 44LM	1	4483	1	0.31	4483	38.96



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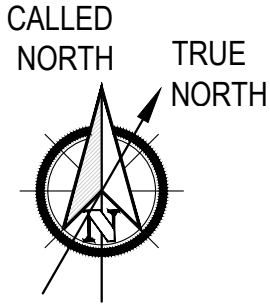
New Interior Renovation
for the Chase Building:

White Box
Construction

400 Riverview Drive
Benton Harbor, Michigan 49022

EMERGENCY LIGHTING
FIRST AND SECOND
FLOOR PLANS

1/8" = 1' - 0"



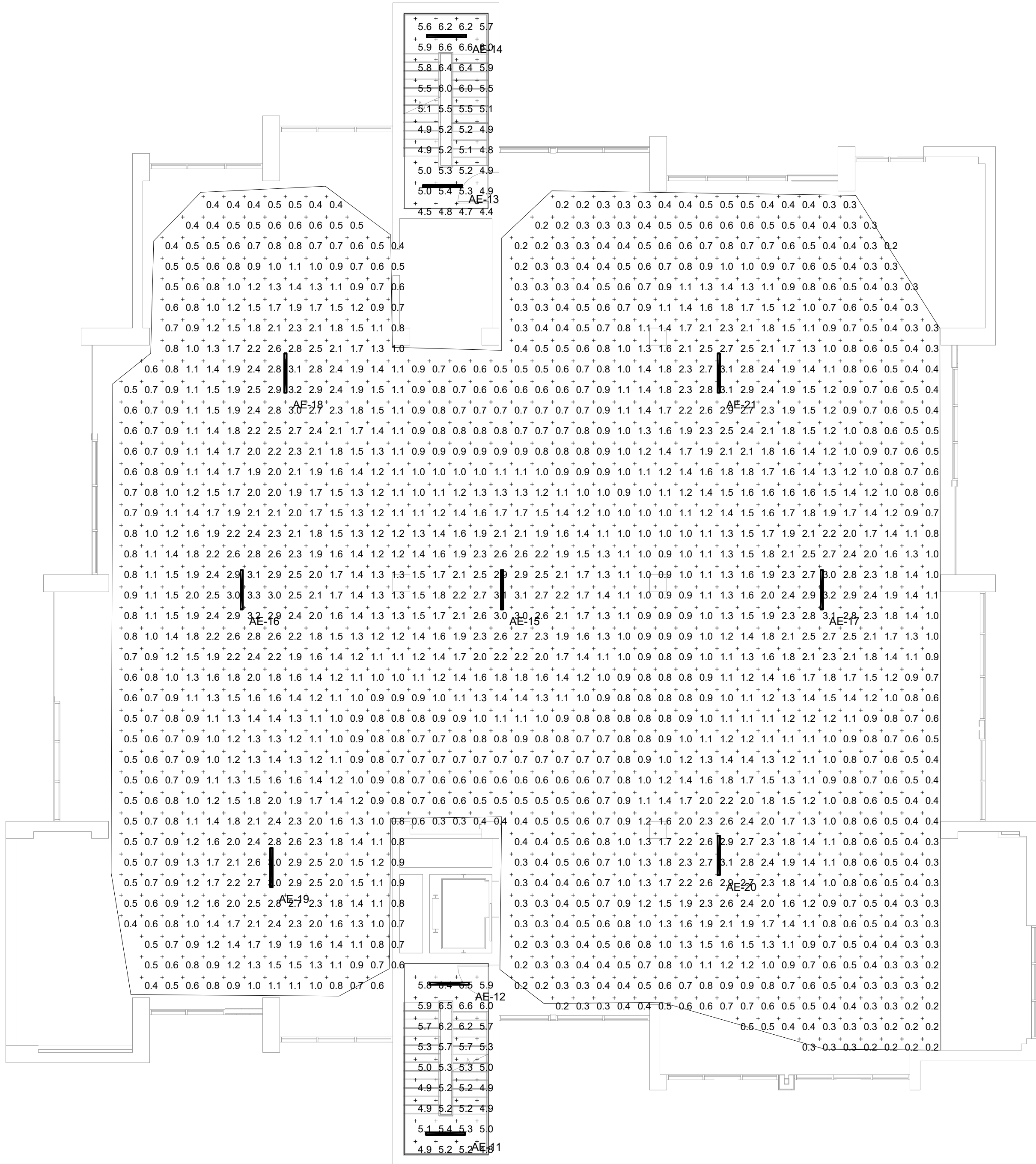
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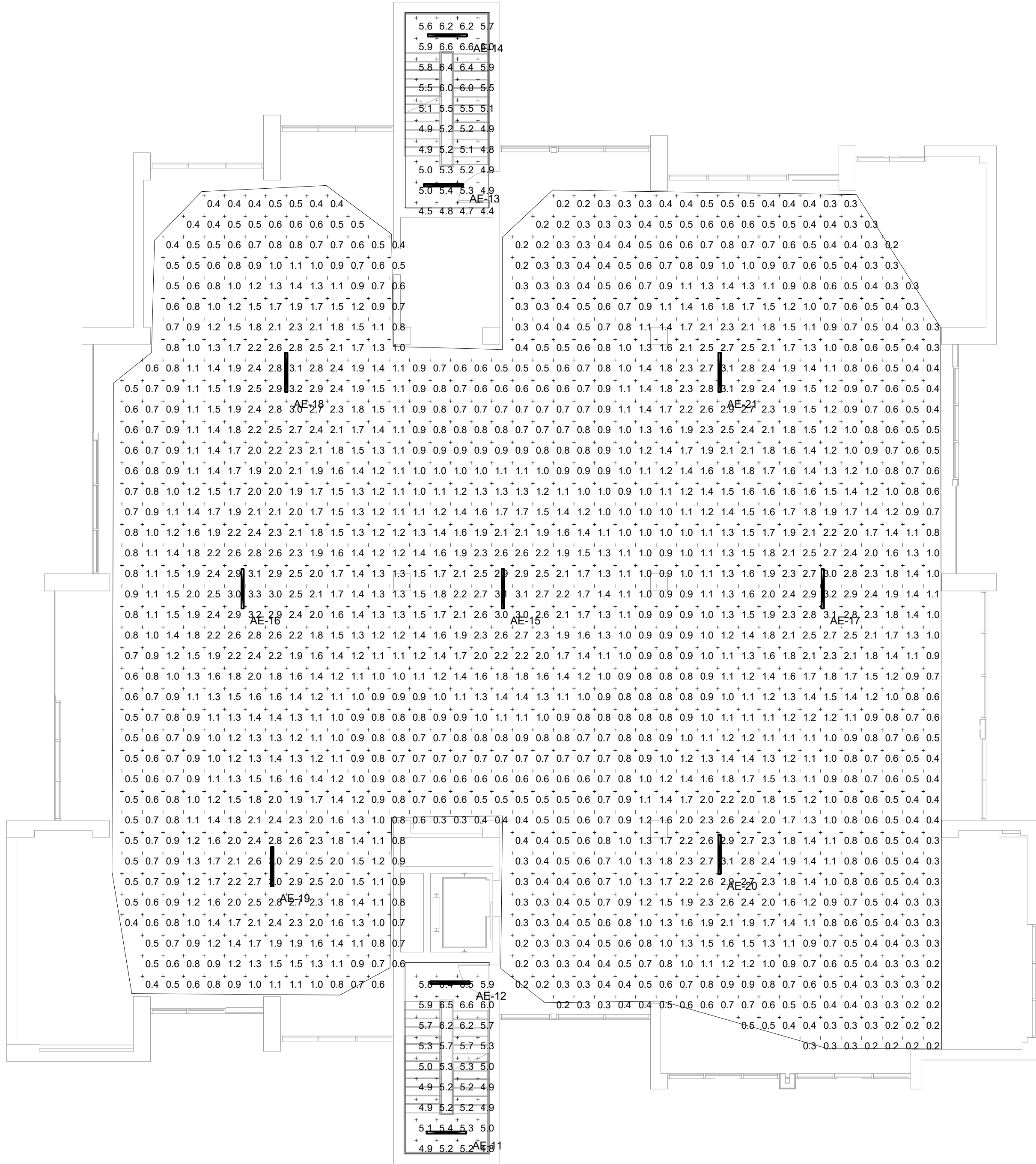


Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Stair South	+	5.5 fc	6.6 fc	4.8 fc	1.4:1	1.1:1
Third Floor	+	1.2 fc	3.3 fc	0.2 fc	16.5:1	6.0:1
Stair North	+	5.4 fc	6.6 fc	4.4 fc	1.5:1	1.2:1

Schedule										
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number	Lamp	Intensity	LLF	Total
I	AE	11	Lithonia Lighting	CSS L48 ALO3 (4000) MVOLT SWW3 (35) 80CRI	Contractor LED Single Strip, 48", Switchable Lumens, 4000LM, 120-277V, Switchable White, 35K, 80 CRI	7	678	1	0.29	4748
						Output		Multiplier		Input
						7		1		36.2358

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Stair North	+	5.4 fc	6.6 fc	4.4 fc	1.5:1	1.2:1
Stair South	+	5.5 fc	6.6 fc	4.8 fc	1.4:1	1.1:1
Fourth Floor	+	1.2 fc	3.3 fc	0.2 fc	16.5:1	6.0:1

Schedule										
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number	Lamp	Intensity	LLF	Total
I	AE	11	Lithonia Lighting	CSS L48 ALO3 (4000) MVOLT SWW3 (35) 80CRI	Contractor LED Single Strip, 48", Switchable Lumens, 4000LM, 120-277V, Switchable White, 35K, 80 CRI	7	678	1	0.29	4748
						Output		Multiplier		Input
						7		1		36.2358



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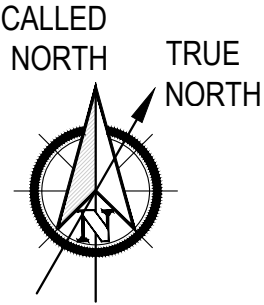
New Interior Renovation
for the Chase Building:

White Box
Construction

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EMERGENCY LIGHTING
THIRD AND FOURTH
FLOOR PLANS

1/8" = 1' - 0"



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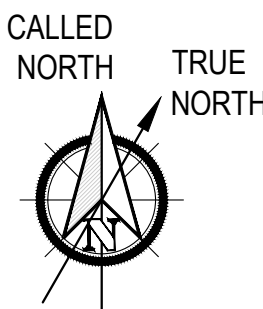
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New Interior Renovation for the Chase Building:

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$$\frac{1}{8}'' = 1' - 0''$$


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E403

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Stair South	+	4.7 fc	5.0 fc	4.3 fc	1.2:1	1.1:1
Fifth Floor	+	1.2 fc	4.2 fc	0.3 fc	14.0:1	4.0:1

Schedule											
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	Intensity Multiplier	LLF	Total Output	Input Power
I	AE	5	Lithonia Lighting	CSS LA4 AL03 (4000) MVOLT SSW3 (35) 80CRI	Contractor LED Single Strip, 48", Switchable Lumens, 4000LM, 120-277V, Switchable White, 35K, 80 CRI	7	678	1	0.29	4748	36.2358

