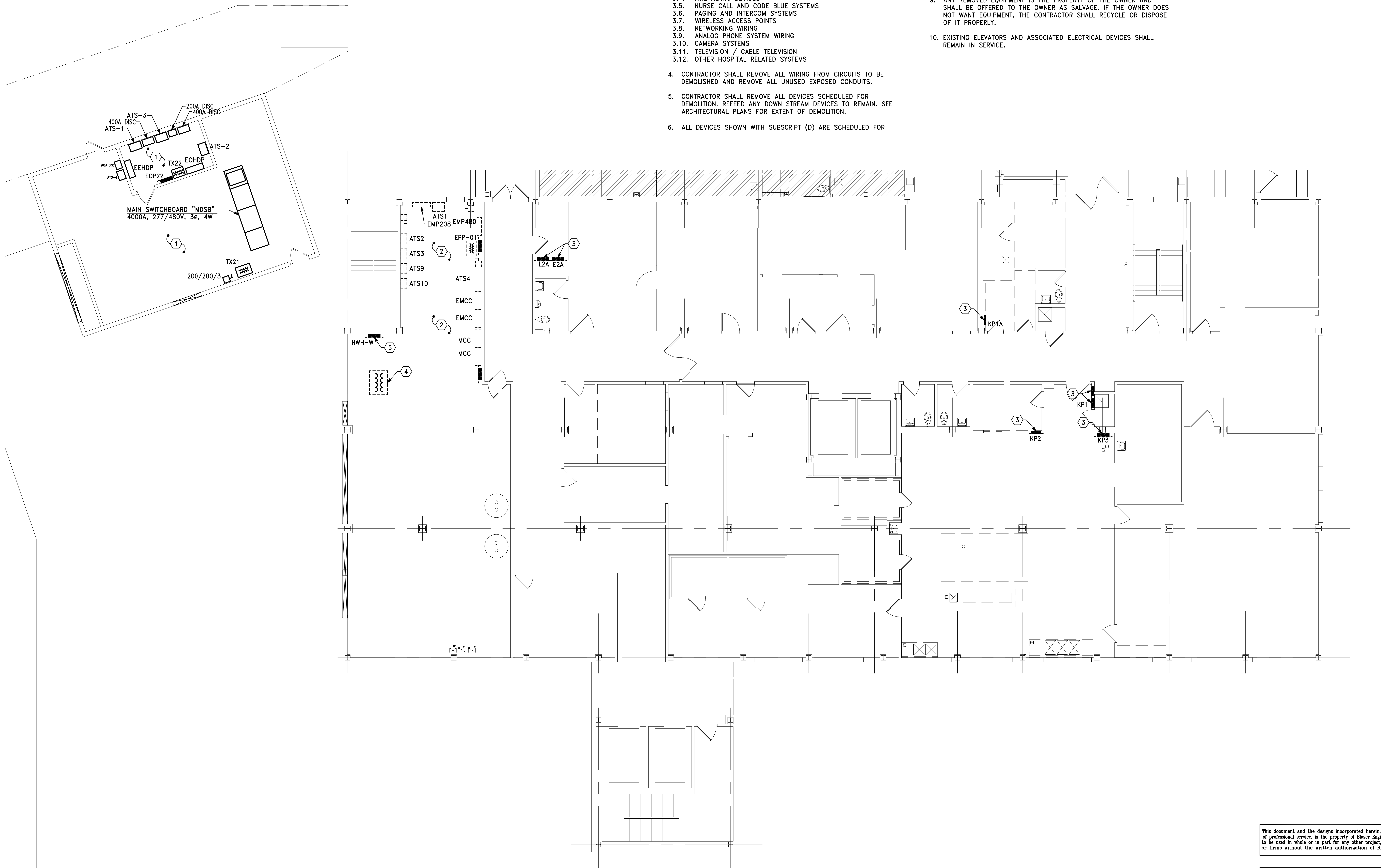
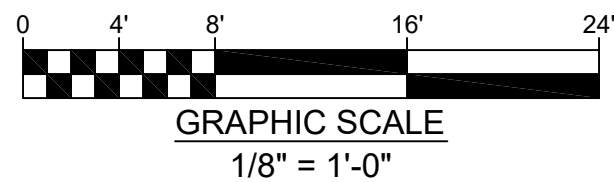




1 Electrical Demolition Plan – Area "A" Second Floor

 Scale: 1/8"=1'-0"



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BLASER ENG JOB# 24-142

GENERAL NOTES

- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. CAREFULLY COORDINATE DEMOLITION OF EQUIPMENT AND EQUIPMENT TO REMAIN WITH THE ARCHITECT AND MECHANICAL ENGINEER. EXISTING EQUIPMENT TO REMAIN SHALL BE REFD FROM NORMAL POWER.
- CONTRACTOR SHALL REMOVE ALL WIRING FROM CIRCUITS TO BE DEMOLISHED AND REMOVE ALL UNUSED EXPOSED CONDUITS.
- CONTRACTOR SHALL REMOVE THE FOLLOWING SYSTEMS FROM THIS FLOOR IN THEIR ENTIRETY.
 - EXISTING LIGHTING AND EMERGENCY LIGHTING
 - RECEPTACLES
 - UNUSED MECHANICAL AND PLUMBING EQUIPMENT POWER CONNECTIONS
 - FIRE ALARM DEVICES
 - NURSE CALL AND CODE BLUE SYSTEMS
 - PAGING AND INTERCOM SYSTEMS
 - WIRELESS ACCESS POINTS
 - NETWORKING WIRING
 - ANALOG PHONE SYSTEM WIRING
 - CAMERA SYSTEMS
 - TELEVISION / CABLE TELEVISION
 - OTHER HOSPITAL RELATED SYSTEMS
- CONTRACTOR SHALL REMOVE ALL WIRING FROM CIRCUITS TO BE DEMOLISHED AND REMOVE ALL UNUSED EXPOSED CONDUITS.
- CONTRACTOR SHALL REMOVE ALL DEVICES SCHEDULED FOR DEMOLITION. REFEED ANY DOWN STREAM DEVICES TO REMAIN. SEE ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION.
- ALL DEVICES SHOWN WITH SUBSCRIPT (D) ARE SCHEDULED FOR

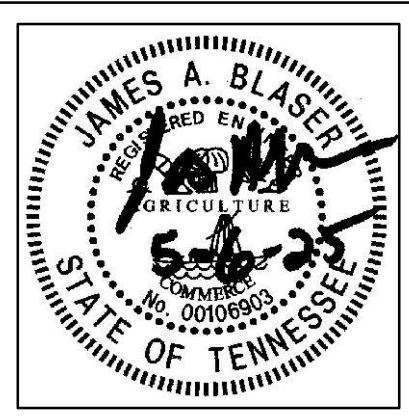
DEMOLITION. OTHER DEVICES MAY BE NOTED AS EXISTING TO REMAIN (E), OR RELOCATED (R).

- EXISTING CONDITIONS WERE TAKEN FROM A SITE VISIT AND MAY NOT REFLECT "AS-BUILT" CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.
- EXISTING RECEPTACLES AND OTHER ELECTRICAL BOXES MAY BE REUSED FOR NEW WORK IF LOCATED IN THE LOCATION SHOWN ON THE PLANS. ADJUST MOUNTING HEIGHTS TO MATCH HEIGHTS NOTED IN THESE PLANS. OTHER ELECTRICAL BOXES IN LOCATIONS NOT REUSED SHALL BE REMOVED AND THE WALL PATCHED TO MATCH EXISTING FINISHES.
- ANY REMOVED EQUIPMENT IS THE PROPERTY OF THE OWNER AND SHALL BE OFFERED TO THE OWNER AS SALVAGE. IF THE OWNER DOES NOT WANT EQUIPMENT, THE CONTRACTOR SHALL RECYCLE OR DISPOSE OF IT PROPERLY.
- EXISTING ELEVATORS AND ASSOCIATED ELECTRICAL DEVICES SHALL REMAIN IN SERVICE.

CODED NOTES

- EXISTING PENTHOUSE ELECTRICAL ROOM. NO WORK IN THIS AREA. ALL EQUIPMENT SHOWN IS PART OF THE PENTHOUSE ELECTRICAL PLANS.
- ALL EXISTING ELECTRICAL PANELS, TRANSFORMERS, AUTOMATIC TRANSFER SWITCHES, DISCONNECTS, ETC TO BE REMOVED FROM THIS AREA.
- REMOVE EXISTING ELECTRICAL PANELS.
- REMOVE EXISTING TRANSFORMER.
- REMOVE EXISTING PANEL. CONFLICTS WITH HVAC DUCTS.

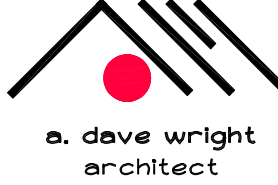
Revisions	Description	Date	No.



Renovations for

Greene County Government

 Greeneville, Tennessee



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Drawn: **J. Blaser**

 Checked: **J. Blaser**

 Job No: **21-160**

 Scale: **as noted**

 Date: **05-06-2025**

 File Name: **24142 electrical**

 Drawing Title:

 Electrical Demolition

 Plan – Area "A"

 Second Floor

 Sheet No.

E1.1



1. EXISTING RTU-1 DISCONNECT AND SERVICE RECEPTACLE TO REMAIN.
2. ALL EXISTING ELECTRICAL PANELS, TRANSFORMERS, AUTOMATIC TRANSFER SWITCHES, DISCONNECTS, ETC TO BE REMOVED FROM THIS AREA.
3. REMOVE EXISTING ELECTRICAL PANELS.
4. REMOVE EXISTING TRANSFORMER.
5. REMOVE UNDERGROUND SERVICE ENTRANCE CONDUCTORS, REMOVE TRANSFORMER, PAD, AND PRIMARY CONDUCTORS. CAP CONDUITS BELOW FLOOR SLAB AND PATCH CONCRETE.
6. NO WORK IN THIS AREA, EXCEPT THE UPGRADE OF THE FIRE ALARM DEVICE. EXISTING CLINIC TO REMAIN IN USE DURING THE DURATION OF THIS PROJECT. COORDINATE POWER OUTAGES WITH OWNER AND CLINIC STAFF 48 HOURS IN ADVANCE.
7. EXISTING CLINIC PANEL TO REMAIN IN USE. REFEED AS REQUIRED FROM NEW ELECTRICAL SYSTEM.
8. NO WORK IN THIS AREA. PART OF FIRST FLOOR RENOVATIONS.
9. EXISTING EXHAUST FAN TO REMAIN. REFEED FROM NEW 480 VOLT PANEL.
10. EXISTING UTILITY TRANSFORMER FEEDING THE 4000A, 277/480V, 3Ø, 4 WIRE MAIN SWITCHBOARD TO REMAIN.

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0 4' 8' 16' 20'

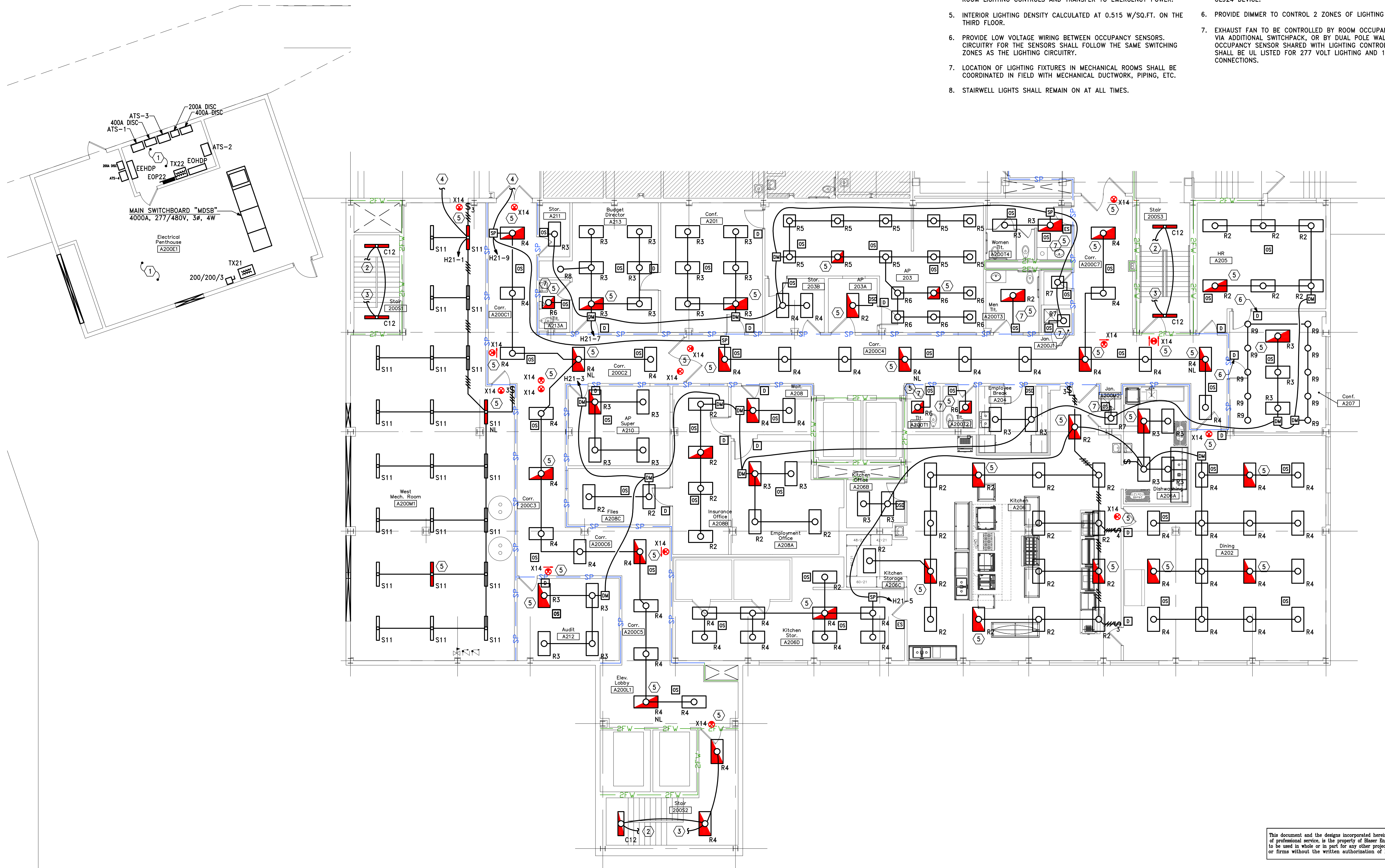
GRAPHIC SCALE

1/8" = 1'-0"

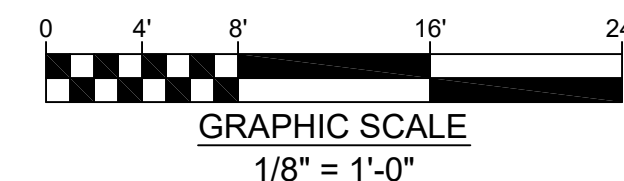
Drawn:	J. Blaser
Checked:	J. Blaser
Job No:	21-160
Scale:	as noted
Date:	05-06-2025
File Name:	24142 electrical
Drawing Title:	Electrical Demolition Plan - Area "B" Second Floor
Sheet No.	E1.2

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1 Lighting Plan - Area "A" Second Floor
Scale: 1/8"=1'-0"



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BLASER ENG JOB# 24-142

Rated Wall Legend	
SP	Non-rated smoke partition (Existing)
1FB	1 Hour Smoke Partition U.L. Design No. U906
1FW	1 Hour Fire Barrier U.L. Design No. U905
2FW	2 Hour Fire wall (Existing)

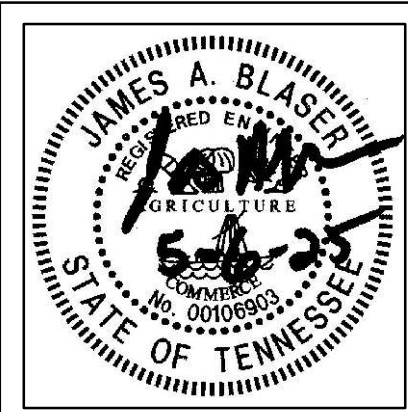
GENERAL NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHTING FIXTURES.
- PROVIDE DIMMING STATIONS AND ENTRY STATIONS WHERE SHOWN TO CONTROL THE LIGHTING CONTROL SYSTEM IN EACH AREA/ROOM.
- THE LIGHTING CONTROL SYSTEM SHALL HAVE ALL COMPONENTS NECESSARY TO MAKE THE SYSTEM OPERATIONAL. THIS INCLUDES THE OCCUPANCY SENSORS, POWER SUPPLIES, SWITCH AND DIMMING PACKS, ALL CONTROL WIRING, ETC.
- ALL EMERGENCY LIGHTING FIXTURES SHALL AUTOMATICALLY COME ON AT FULL BRIGHTNESS IN THE EVENT OF THE LOSS OF NORMAL POWER. PROVIDE UL924 LISTED DEVICES AS NECESSARY TO OVERRIDE ROOM LIGHTING CONTROLS AND TRANSFER TO EMERGENCY POWER.
- INTERIOR LIGHTING DENSITY CALCULATED AT 0.515 W/SQ.FT. ON THE THIRD FLOOR.
- PROVIDE LOW VOLTAGE WIRING BETWEEN OCCUPANCY SENSORS. CIRCUITRY FOR THE SENSORS SHALL FOLLOW THE SAME SWITCHING ZONES AS THE LIGHTING CIRCUITRY.
- LOCATION OF LIGHTING FIXTURES IN MECHANICAL ROOMS SHALL BE COORDINATED IN FIELD WITH MECHANICAL DUCTWORK, PIPING, ETC.
- STAIRWELL LIGHTS SHALL REMAIN ON AT ALL TIMES.

CODED NOTES

- NO WORK IN THIS AREA.
- FROM FIRST FLOOR STAIRWELL UNSWITCHED LIGHTING CIRCUIT.
- UNSWITCHED LIGHTING CIRCUIT TO THIRD FLOOR STAIRWELL LIGHTS.
- SEE SHEET E1.4 FOR CONTINUATION.
- PROVIDE POWER FOR EMERGENCY LIGHTS AND EXIT SIGNAGE FROM EMERGENCY LIGHTING CIRCUIT EEH21-5. FIXTURE TO BE CONTROLLED BY ROOM/AREA OCCUPANCY SENSOR THROUGH A UL924 LISTED SWITCHPACK. FIXTURE TO OVERRIDE ROOM CONTROLS UPON LOSS OF NORMAL POWER. DEVICE EQUAL TO WATTSTOPPER ELCU-200. MULTIPLE EMERGENCY FIXTURES IN THE SAME ROOM CAN BE ON ONE UL924 DEVICE.
- PROVIDE DIMMER TO CONTROL 2 ZONES OF LIGHTING IN THIS ROOM.
- EXHAUST FAN TO BE CONTROLLED BY ROOM OCCUPANCY SENSOR(S) VIA ADDITIONAL SWITCHPACK, OR BY DUAL POLE WALL MOUNTED OCCUPANCY SENSOR SHARED WITH LIGHTING CONTROLS. DEVICE SHALL BE UL LISTED FOR 277 VOLT LIGHTING AND 120 VOLT FAN CONNECTIONS.

Revisions	Description	Date	No.



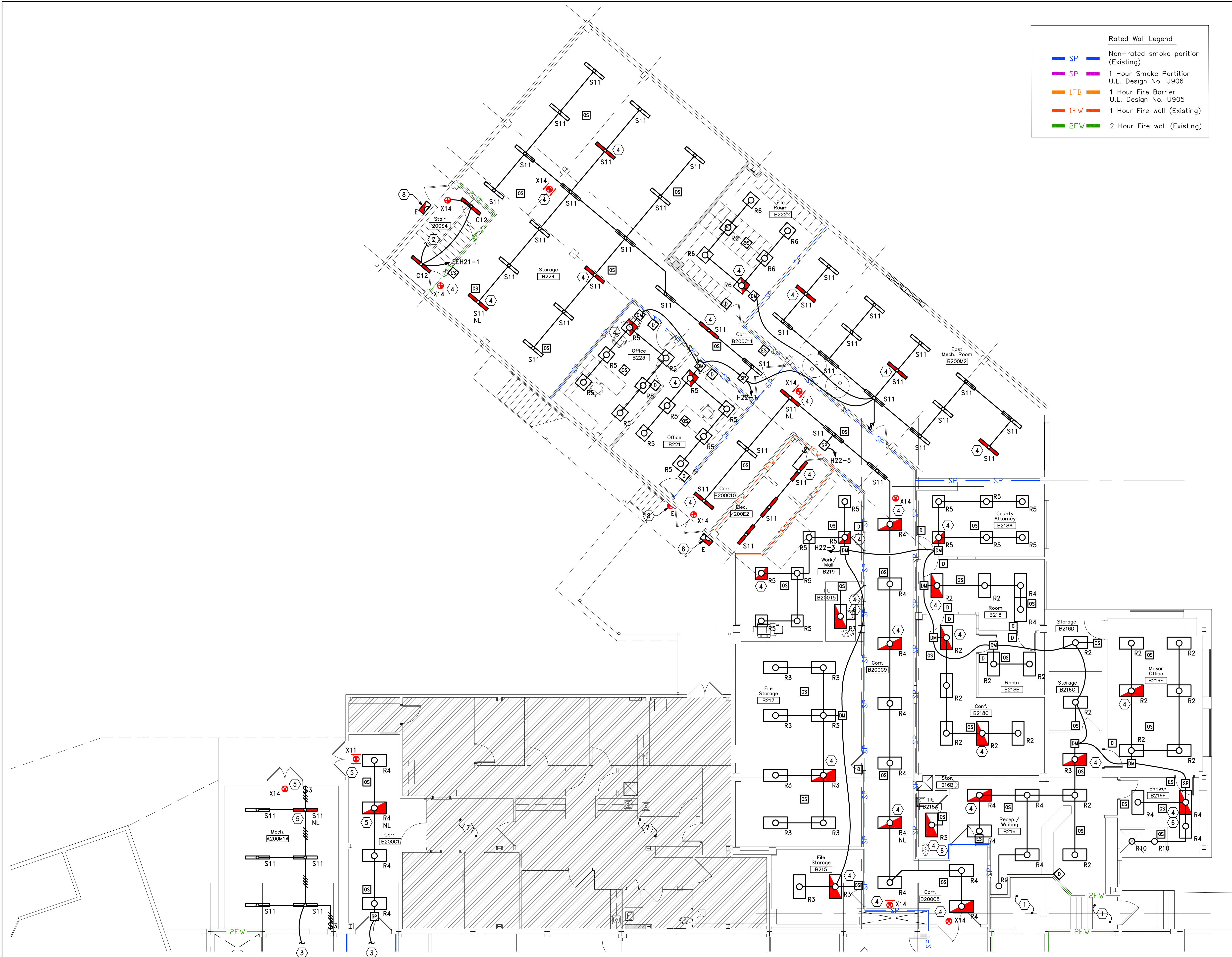
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Drawn: J. Blaser
Checked: J. Blaser
Job No: 21-160
Scale: as noted
Date: 05-06-2025
File Name: 24142 electrical
Drawing Title:
Lighting Plan - Area
"A" Second Floor

Sheet No.
E1.3

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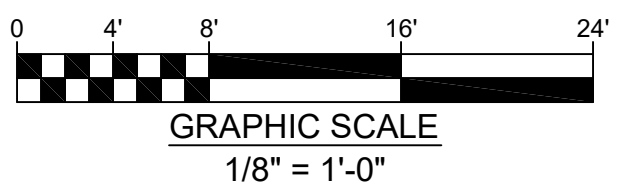


Rated Wall Legend	
— SP	Non-rated smoke partition (Existing)
— SP	1 Hour Smoke Partition U.L. Design No. U906
— 1FB	1 Hour Fire Barrier U.L. Design No. U905
— 1FW	1 Hour Fire wall (Existing)
— 2FW	2 Hour Fire wall (Existing)

- GENERAL NOTES**
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHTING FIXTURES.
 - PROVIDE DIMMING STATIONS AND ENTRY STATIONS WHERE SHOWN TO CONTROL THE LIGHTING CONTROL SYSTEM IN EACH AREA/ROOM.
 - THE LIGHTING CONTROL SYSTEM SHALL HAVE ALL COMPONENTS NECESSARY TO MAKE THE SYSTEM OPERATIONAL. THIS INCLUDES THE OCCUPANCY SENSORS, POWER SUPPLIES, SWITCH AND DIMMING PACKS, ALL CONTROL WIRING, ETC.
 - ALL EMERGENCY LIGHTING FIXTURES SHALL AUTOMATICALLY COME ON AT FULL BRIGHTNESS IN THE EVENT OF THE LOSS OF NORMAL POWER. PROVIDE UL924 LISTED DEVICES AS NECESSARY TO OVERRIDE ROOM LIGHTING CONTROLS AND TRANSFER TO EMERGENCY POWER.
 - INTERIOR LIGHTING DENSITY CALCULATED AT 0.515 W/SQ.FT. ON THE THIRD FLOOR.
 - PROVIDE LOW VOLTAGE WIRING BETWEEN OCCUPANCY SENSORS. CIRCUITRY FOR THE SENSORS SHALL FOLLOW THE SAME SWITCHING ZONES AS THE LIGHTING CIRCUITY.
 - LOCATION OF LIGHTING FIXTURES IN MECHANICAL ROOMS SHALL BE COORDINATED IN FIELD WITH MECHANICAL DUCTWORK, PIPING, ETC.
 - STAIRWELL LIGHTS SHALL REMAIN ON AT ALL TIMES.

- CODED NOTES**
- NO WORK IN THIS AREA. LIGHTS ARE PART OF THE FIRST FLOOR RENOVATIONS.
 - UNSWITCHED LIGHTING CIRCUIT TO THIRD FLOOR STAIRWELL LIGHTS.
 - SEE SHEET E1.3 FOR CONTINUATION.
 - PROVIDE POWER FOR EMERGENCY LIGHTS AND EXIT SIGNAGE FROM EMERGENCY LIGHTING CIRCUIT EEH21-3. FIXTURE TO BE CONTROLLED BY ROOM/AREA OCCUPANCY SENSOR THROUGH A UL924 LISTED SWITCHPACK. FIXTURE TO OVERRIDE ROOM CONTROLS UPON LOSS OF NORMAL POWER. DEVICE EQUAL TO WATTSTOPPER ELCU-200. MULTIPLE EMERGENCY FIXTURES IN THE SAME ROOM CAN BE ON ONE UL924 DEVICE.
 - PROVIDE POWER FOR EMERGENCY LIGHTS AND EXIT SIGNAGE FROM EMERGENCY LIGHTING CIRCUIT EEH21-5. FIXTURE TO BE CONTROLLED BY ROOM/AREA OCCUPANCY SENSOR THROUGH A UL924 LISTED SWITCHPACK. FIXTURE TO OVERRIDE ROOM CONTROLS UPON LOSS OF NORMAL POWER. DEVICE EQUAL TO WATTSTOPPER ELCU-200. MULTIPLE EMERGENCY FIXTURES IN THE SAME ROOM CAN BE ON ONE UL924 DEVICE.
 - EXHAUST FAN TO BE CONTROLLED BY ROOM OCCUPANCY SENSOR(S) VIA ADDITIONAL SWITCHPACK, OR BY DUAL POLE WALL MOUNTED OCCUPANCY SENSOR SHARED WITH LIGHTING CONTROLS. DEVICE SHALL BE UL LISTED FOR 277 VOLT LIGHTING AND 120 VOLT FAN CONNECTIONS.
 - EXISTING 120 VOLT CLINIC EMERGENCY LIGHTING CIRCUIT SHALL BE RECIRCUITED TO CIRCUIT EEP21-6.
 - EXISTING EXTERIOR LIGHT. RECIRCUIT FROM EMERGENCY CIRCUIT EOP23-9. PROVIDE PHOTO CELL CONTROL ON THE CIRCUIT.

1 Lighting Plan - Area "B" Second Floor
E1.4 Scale: 1/8"=1'-0"

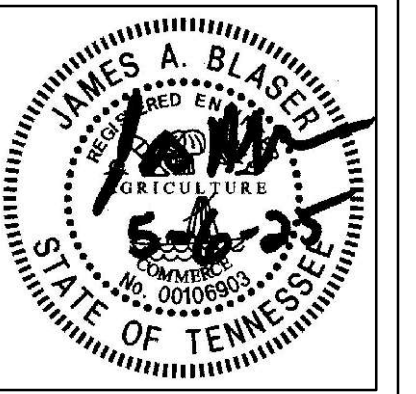


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BLASER ENG JOB# 24-142

Revisions	Description	Date	No.

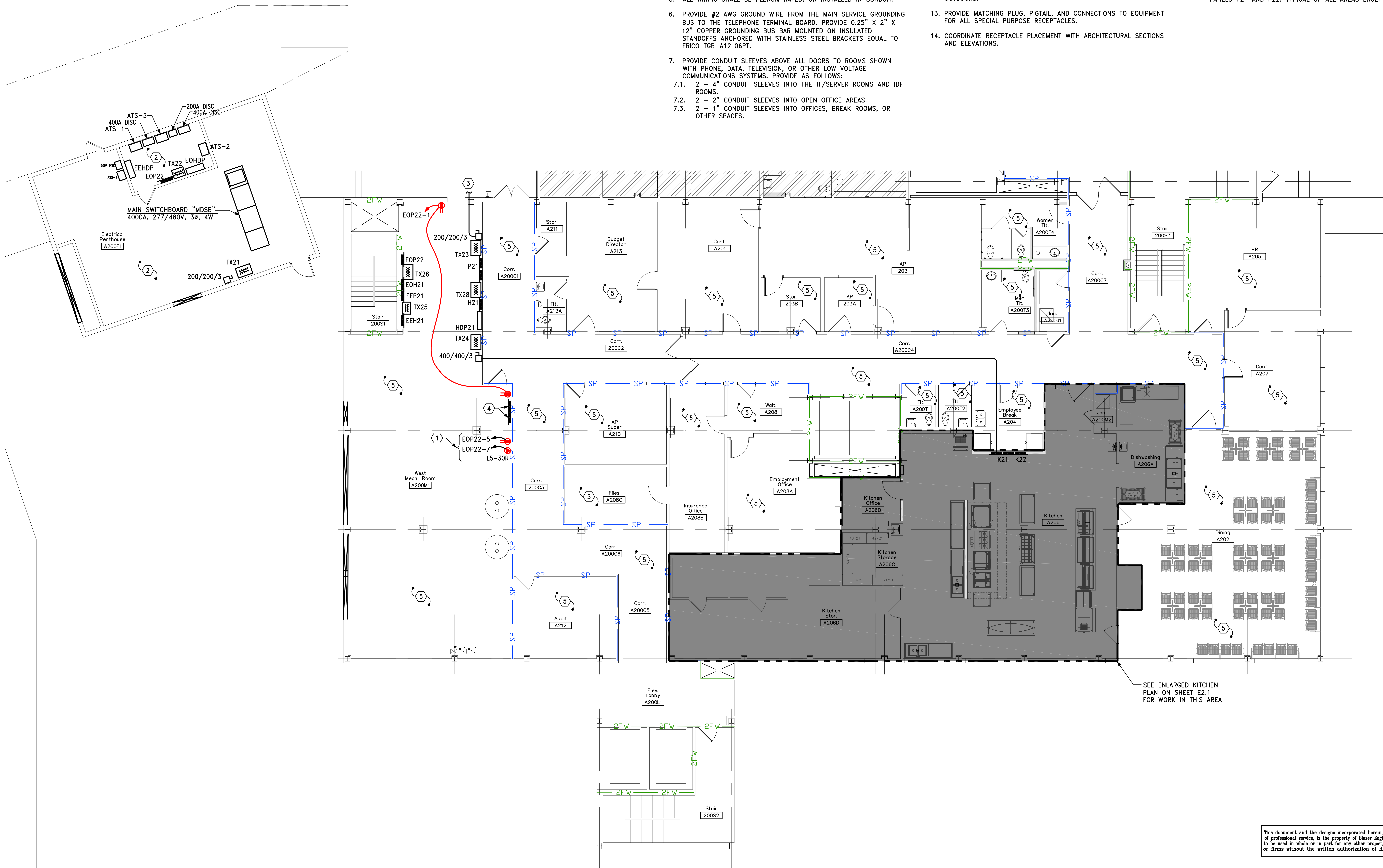


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Job No: 21-160
Scale: as noted
Date: 05-06-2025
File Name: 24142 electrical
Drawing Title:
Lighting Plan - Area
"B" Second Floor

Sheet No.
E1.4



Rated Wall Legend	
— SP	Non-rated smoke partition (Existing)
— SP	1 Hour Smoke Partition U.L. Design No. U906
— 1FB	1 Hour Fire Barrier U.L. Design No. U905
— 1FW	1 Hour Fire wall (Existing)
— 2FW	2 Hour Fire wall (Existing)

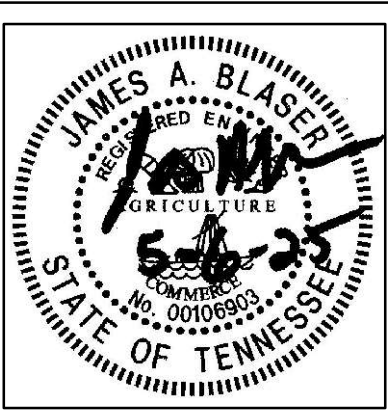
GENERAL NOTES

- EMERGENCY RESPONDER RADIO COVERAGE: INCLUDE FEE FOR TESTING THE BUILDING AS PART OF THE ELECTRICAL BID AND WORST CASE SCENARIO (FULL COVERAGE) PRICING AS A SEPARATE LINE ITEM. THE PRICING WILL BE ADJUSTED AFTER THE TEST RESULTS DETERMINE THE REQUIRED EQUIPMENT.
- COORDINATE CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- ALL DEVICES SHALL BE TAMPER RESISTANT PER NEC 406.12.
- ALL FIRE ALARM SYSTEM DEVICES SHALL BE FULLY COMPATIBLE WITH THE EXISTING NOTIFIER FIRE ALARM SYSTEM.
- ALL WIRING SHALL BE PLENUM RATED, OR INSTALLED IN CONDUIT.
- PROVIDE #2 AWG GROUND WIRE FROM THE MAIN SERVICE GROUNDING BUS TO THE TELEPHONE TERMINAL BOARD. PROVIDE 0.25" X 2" X 12" COPPER GROUNDING BUS BAR MOUNTED ON INSULATED STANDOFFS ANCHORED WITH STAINLESS STEEL BRACKETS EQUAL TO ERICO TGB-A12L06PT.
- PROVIDE CONDUIT SLEEVES ABOVE ALL DOORS TO ROOMS SHOWN WITH PHONE, DATA, TELEVISION, OR OTHER LOW VOLTAGE COMMUNICATIONS SYSTEMS. PROVIDE AS FOLLOWS:
 - 2 - 4" CONDUIT SLEEVES INTO THE IT/SERVER ROOMS AND IDF ROOMS.
 - 2 - 2" CONDUIT SLEEVES INTO OPEN OFFICE AREAS.
 - 2 - 1" CONDUIT SLEEVES INTO OFFICES, BREAK ROOMS, OR OTHER SPACES.

- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL STRING.
- PER NEC 210.8, ALL GROUND FAULT RECEPTACLES ARE TO BE IN A READILY ACCESSIBLE LOCATION. IF NOT, PROVIDE A GROUND FAULT CIRCUIT BREAKER IN THE PANEL, OR A DEAD FRONT GROUND FAULT DEVICE IN AN ACCESSIBLE LOCATION SERVING THE INACCESSIBLE DEVICE.
- COORDINATE ACTUAL MOUNTING LOCATIONS OF ALL EQUIPMENT WITH CONTRACTOR PROVIDING THE EQUIPMENT.
- PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT SUPPLIED BY OTHERS.
- PROVIDE NEMA 3R RATED SAFETY SWITCHES WHERE LOCATED OUTDOORS.
- PROVIDE MATCHING PLUG, PIGTAIL, AND CONNECTIONS TO EQUIPMENT FOR ALL SPECIAL PURPOSE RECEPTACLES.
- COORDINATE RECEPTACLE PLACEMENT WITH ARCHITECTURAL SECTIONS AND ELEVATIONS.

CODED NOTES

- RECEPTACLES FOR IT EQUIPMENT. COORDINATE EXACT LOCATION WITH IT EQUIPMENT SUPPLIER.
- NO WORK IN THIS AREA.
- INTERCEPT EXISTING FEEDER TO CLINIC PANEL "A" IN THIS APPROXIMATE LOCATION. EXTEND CIRCUIT TO DISCONNECT AT TRANSFORMER TX23. SEE ONE-LINE DIAGRAM FOR FEEDER SIZE.
- FIRE ALARM SYSTEM POWER SUPPLY AND VOICE EVACUATION PANEL POWER SUPPLY.
- ALL SECOND FLOOR RECEPTACLES AND DATA JACKS TO BE LOCATED AND PROVIDED BY THE OWNER. RECEPTACLES SHALL BE CIRCUITED TO PANELS P21 AND P22. TYPICAL OF ALL AREAS EXCEPT THE KITCHEN.



Renovations for

Greene County Government

Greenville, Tennessee



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Drawn: J. Blaser
Checked: J. Blaser
Job No: 21-160
Scale: as noted
Date: 05-06-2025
File Name: 24142 electrical
Drawing Title:
Power Plan - Area
"A" Second Floor

Sheet No.
E1.5

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BLASER ENG JOB# 24-142

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Rated Wall Legend	
— SP	Non-rated smoke partition (Existing)
— SP	1 Hour Smoke Partition U.L. Design No. U906
— 1FB	1 Hour Fire Barrier U.L. Design No. U905
— 1FW	1 Hour Fire wall (Existing)
— 2FW	2 Hour Fire wall (Existing)

- GENERAL NOTES**
- EMERGENCY RESPONDER RADIO COVERAGE: INCLUDE FEE FOR TESTING THE BUILDING AS PART OF THE ELECTRICAL BID AND WORST CASE SCENARIO (FULL COVERAGE) PRICING AS A SEPARATE LINE ITEM. THE PRICING WILL BE ADJUSTED AFTER THE TEST RESULTS DETERMINE THE REQUIRED EQUIPMENT.
 - COORDINATE CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
 - ALL DEVICES SHALL BE TAMPER RESISTANT PER NEC 406.12.
 - ALL FIRE ALARM SYSTEM DEVICES SHALL BE FULLY COMPATIBLE WITH THE EXISTING NOTIFIER FIRE ALARM SYSTEM.
 - ALL WIRING SHALL BE PLENUM RATED, OR INSTALLED IN CONDUIT.
 - PROVIDE #2 AWG GROUND WIRE FROM THE MAIN SERVICE GROUNDING BUS TO THE TELEPHONE TERMINAL BOARD. PROVIDE 0.25" X 2" X 12" COPPER GROUNDING BUS BAR MOUNTED ON INSULATED STANDOFFS ANCHORED WITH STAINLESS STEEL BRACKETS EQUAL TO ERICO TGB-A12L06PT.
 - PROVIDE CONDUIT SLEEVES ABOVE ALL DOORS TO ROOMS SHOWN WITH PHONE, DATA, TELEVISION, OR OTHER LOW VOLTAGE COMMUNICATIONS SYSTEMS. PROVIDE AS FOLLOWS:
 - 2 - 4" CONDUIT SLEEVES INTO THE IT/SERVER ROOMS AND IDF ROOMS.
 - 2 - 2" CONDUIT SLEEVES INTO OPEN OFFICE AREAS.
 - 2 - 1" CONDUIT SLEEVES INTO OFFICES, BREAK ROOMS, OR OTHER SPACES.
 - ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL STRING.
 - PER NEC 210.8, ALL GROUND FAULT RECEPTACLES ARE TO BE IN A READILY ACCESSIBLE LOCATION. IF NOT, PROVIDE A GROUND FAULT CIRCUIT BREAKER IN THE PANEL, OR A DEAD FRONT GROUND FAULT DEVICE IN AN ACCESSIBLE LOCATION SERVING THE INACCESSIBLE DEVICE.
 - COORDINATE ACTUAL MOUNTING LOCATIONS OF ALL EQUIPMENT WITH CONTRACTOR PROVIDING THE EQUIPMENT.
 - PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT SUPPLIED BY OTHERS.
 - PROVIDE NEMA 3R RATED SAFETY SWITCHES WHERE LOCATED OUTDOORS.
 - PROVIDE MATCHING PLUG, PIGTAIL, AND CONNECTIONS TO EQUIPMENT FOR ALL SPECIAL PURPOSE RECEPTACLES.
 - COORDINATE RECEPTACLE PLACEMENT WITH ARCHITECTURAL SECTIONS AND ELEVATIONS.

- CODED NOTES**
- NO WORK IN THIS AREA. AREA PART OF THE FIRST FLOOR RENOVATIONS.
 - RECEPTACLES FOR IT EQUIPMENT. COORDINATE EXACT LOCATION WITH IT EQUIPMENT SUPPLIER.
 - ALL SECOND FLOOR RECEPTACLES AND DATA JACKS TO BE LOCATED AND PROVIDED BY THE OWNER. RECEPTACLES SHALL BE CIRCUITED TO PANELS P21 AND P22. TYPICAL OF ALL AREAS EXCEPT THE KITCHEN.
 - TO DISCONNECT SWITCH AT TRANSFORMER TX23. SEE SHEET E1.5 FOR CONTINUATION. SEE ONE-LINE DIAGRAM FOR FEEDER SIZE.

1 Power Plan - Area "B" Second Floor
E1.6 Scale: 1/8"=1'-0"

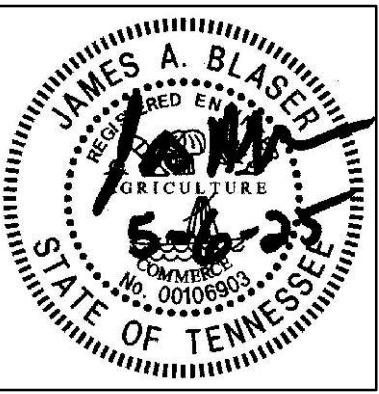
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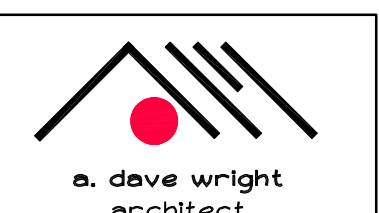
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Revisions	
Description	
No	Date

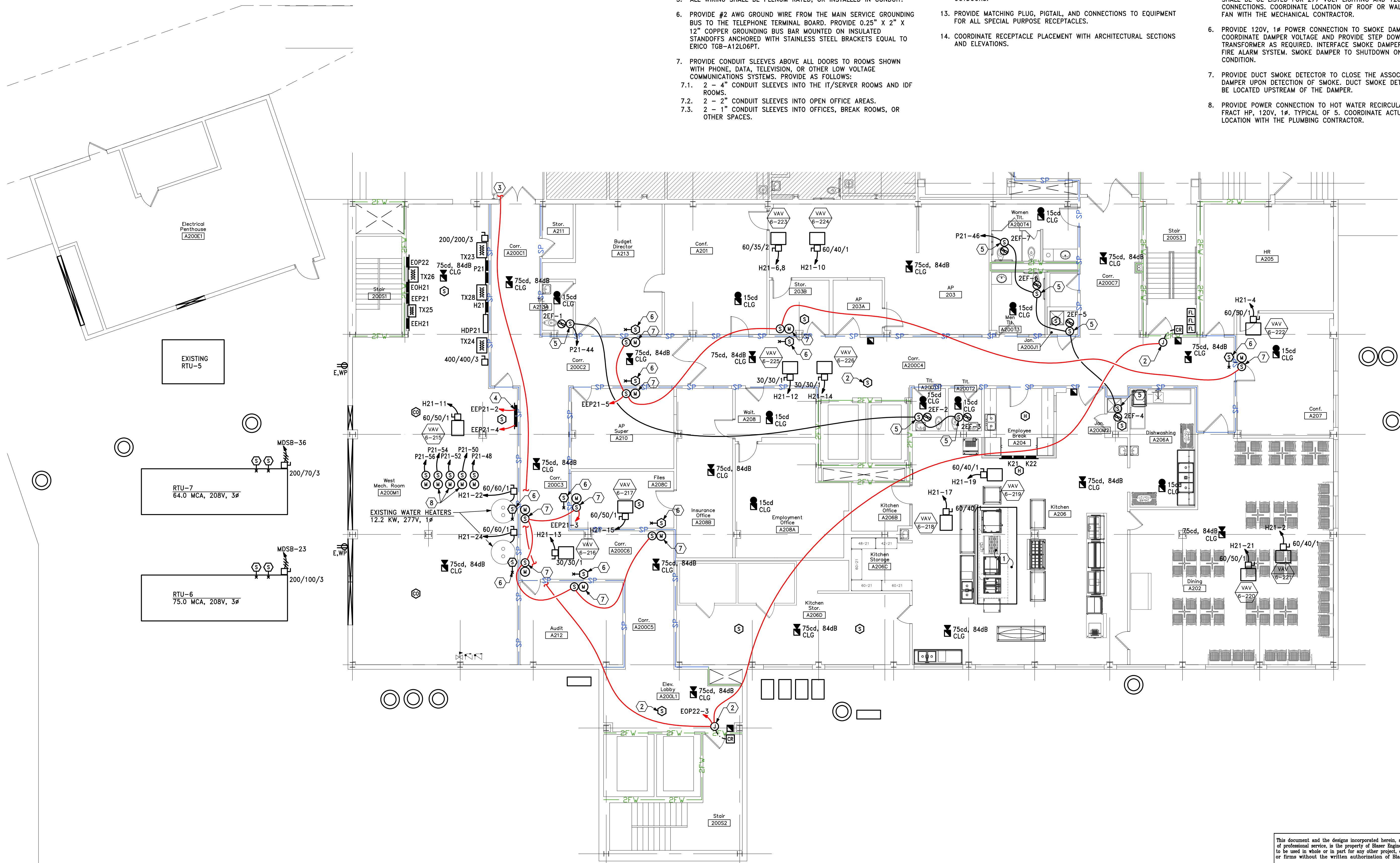


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Drawn:	J. Blaser
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Job No:	21-160
Scale:	as noted
Date:	05-06-2025
File Name:	24142 electrical
Drawing Title:	Power Plan - Area "B" Second Floor

Sheet No.
E1.6



1
E1.7 Systems Plan - Area "A" Second Floor
Scale: 1/8"=1'-0"

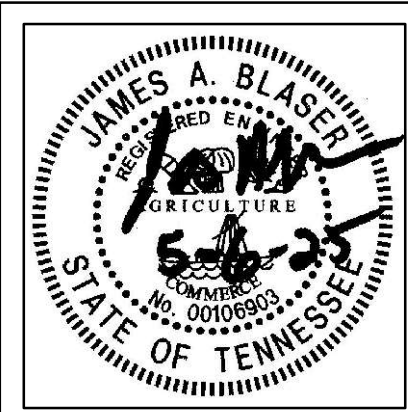
GENERAL NOTES

- EMERGENCY RESPONDER RADIO COVERAGE: INCLUDE FEE FOR TESTING THE BUILDING AS PART OF THE ELECTRICAL BID AND WORST CASE SCENARIO (FULL COVERAGE) PRICING AS A SEPARATE LINE ITEM. THE PRICING WILL BE ADJUSTED AFTER THE TEST RESULTS DETERMINE THE REQUIRED EQUIPMENT.
- COORDINATE CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- ALL DEVICES SHALL BE TAMPER RESISTANT PER NEC 406.12.
- ALL FIRE ALARM SYSTEM DEVICES SHALL BE FULLY COMPATIBLE WITH THE EXISTING NOTIFIER FIRE ALARM SYSTEM.
- ALL WIRING SHALL BE PLENUM RATED, OR INSTALLED IN CONDUIT.
- PROVIDE #2 AWG GROUND WIRE FROM THE MAIN SERVICE GROUNDING BUS TO THE TELEPHONE TERMINAL BOARD. PROVIDE 0.25" X 2" X 12" COPPER GROUNDING BUS BAR MOUNTED ON INSULATED STANDOFFS ANCHORED WITH STAINLESS STEEL BRACKETS EQUAL TO ERICO TGB-A12L06PT.
- PROVIDE CONDUIT SLEEVES ABOVE ALL DOORS TO ROOMS SHOWN WITH PHONE, DATA, TELEVISION, OR OTHER LOW VOLTAGE COMMUNICATIONS SYSTEMS. PROVIDE AS FOLLOWS:
 - 2 - 4" CONDUIT SLEEVES INTO THE IT/SERVER ROOMS AND IDF ROOMS.
 - 2 - 2" CONDUIT SLEEVES INTO OPEN OFFICE AREAS.
 - 2 - 1" CONDUIT SLEEVES INTO OFFICES, BREAK ROOMS, OR OTHER SPACES.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL STRING.
- PER NEC 210.8, ALL GROUND FAULT RECEPTACLES ARE TO BE IN A READILY ACCESSIBLE LOCATION. IF NOT, PROVIDE A GROUND FAULT CIRCUIT BREAKER IN THE PANEL, OR A DEAD FRONT GROUND FAULT DEVICE IN AN ACCESSIBLE LOCATION SERVING THE INACCESSIBLE DEVICE.
- COORDINATE ACTUAL MOUNTING LOCATIONS OF ALL EQUIPMENT WITH CONTRACTOR PROVIDING THE EQUIPMENT.
- PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT SUPPLIED BY OTHERS.
- PROVIDE NEMA 3R RATED SAFETY SWITCHES WHERE LOCATED OUTDOORS.
- PROVIDE MATCHING PLUG, PIGTAIL, AND CONNECTIONS TO EQUIPMENT FOR ALL SPECIAL PURPOSE RECEPTACLES.
- COORDINATE RECEPTACLE PLACEMENT WITH ARCHITECTURAL SECTIONS AND ELEVATIONS.

CODED NOTES

- KITCHEN SUPPRESSION HOOD SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
- PROVIDE SMOKE DETECTOR TIED TO THE ELEVATOR RECALL SYSTEM. SEE DETAIL.
- SEE SHEET E1.8 FOR CONTINUATION.
- PROVIDE POWER TO FIRE ALARM SYSTEM POWER SUPPLY AND VOICE EVACUATION PANEL POWER SUPPLY.
- EXHAUST FAN TO BE CONTROLLED BY ROOM OCCUPANCY SENSOR(S) VIA ADDITIONAL SWITCHPACK, OR BY DUAL POLE WALL MOUNTED OCCUPANCY SENSOR SHARED WITH LIGHTING CONTROLS. DEVICE SHALL BE UL LISTED FOR 277 VOLT LIGHTING AND 120 VOLT FAN CONNECTIONS. COORDINATE LOCATION OF ROOF OR WALL MOUNTED FAN WITH THE MECHANICAL CONTRACTOR.
- PROVIDE 120V, 1 ϕ POWER CONNECTION TO SMOKE DAMPER. COORDINATE DAMPER VOLTAGE AND PROVIDE STEP DOWN TRANSFORMER AS REQUIRED. INTERFACE SMOKE DAMPER WITH THE FIRE ALARM SYSTEM. SMOKE DAMPER TO SHUTDOWN ON ALARM CONDITION.
- PROVIDE DUCT SMOKE DETECTOR TO CLOSE THE ASSOCIATED SMOKE DAMPER UPON DETECTION OF SMOKE. DUCT SMOKE DETECTOR SHALL BE LOCATED UPSTREAM OF THE DAMPER.
- PROVIDE POWER CONNECTION TO HOT WATER RECIRCULATION PUMPS. FRACT HP, 120V, 1 ϕ . TYPICAL OF 5. COORDINATE ACTUAL MOUNTING LOCATION WITH THE PLUMBING CONTRACTOR.

No.	Date	Description	Revisions



Renovations for
Greene County Government
Greenville, Tennessee



Drawn: J. Blaser
Checked: J. Blaser
Job No: 21-160
Scale: as noted
Date: 05-06-2025
File Name: 24142 electrical
Drawing Title: Systems Plan - Area "A" Second Floor

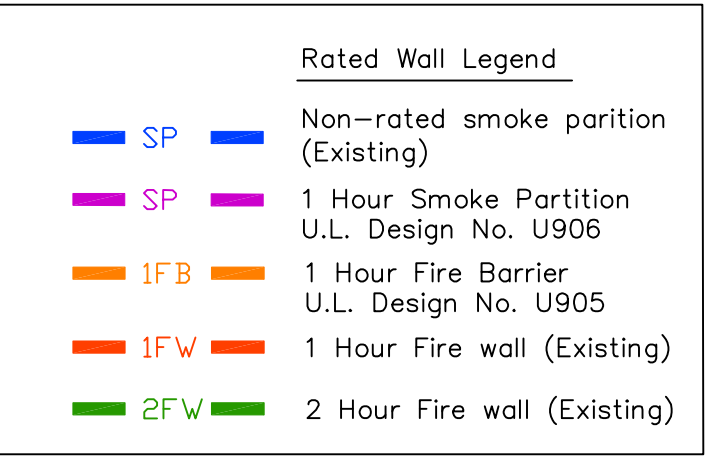
Sheet No.
E1.7

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Blaser Engineering

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Phone: (423) 349-8380

BLASER ENG JOB# 24-142



- CODED NOTES**
1. NO WORK IN THIS AREA. AREA PART OF THE FIRST FLOOR RENOVATIONS.
 2. PROVIDE POWER CONNECTION TO DOOR SECURITY POWER SUPPLY. POWER SUPPLY SHALL INTERFACE WITH THE FIRE ALARM SYSTEM TO RELEASE THE DOOR UPON A FIRE ALARM. PROVIDE 3/4" CONDUIT AND WIRING FROM POWER SUPPLY THE CARD READER AND DOOR STRIKE.
 3. CLINIC AREA FIRE ALARM DEVICES SHALL BE UPGRADED AND CONNECTED TO THE FIRE ALARM SYSTEM. FIELD VERIFY DEVICE QUANTITY AND LOCATIONS.
 4. EXISTING CLINIC ROOF TOP UNIT.
 5. SEE SHEET E1.7 FOR CONTINUATION.
 6. PROVIDE POWER FROM NEAREST GENERAL RECEPTACLE CIRCUIT.
 7. EXHAUST FAN TO BE CONTROLLED BY ROOM OCCUPANCY SENSOR(S) VIA ADDITIONAL SWITCHPACK, OR BY DUAL POLE WALL MOUNTED OCCUPANCY SENSOR SHARED WITH LIGHTING CONTROLS. DEVICE SHALL BE UL LISTED FOR 277 VOLT LIGHTING AND 120 VOLT FAN CONNECTIONS. COORDINATE LOCATION OF ROOF OR WALL MOUNTED FAN WITH THE MECHANICAL CONTRACTOR.
 8. PROVIDE 120V, 1ø POWER CONNECTION TO SMOKE DAMPER. COORDINATE DAMPER VOLTAGE AND PROVIDE STEP DOWN TRANSFORMER AS REQUIRED. INTERFACE SMOKE DAMPER WITH THE FIRE ALARM SYSTEM. SMOKE DAMPER TO SHUTDOWN ON ALARM CONDITION.
 9. PROVIDE DUCT SMOKE DETECTOR TO CLOSE THE ASSOCIATED SMOKE DAMPER UPON DETECTION OF SMOKE. DUCT SMOKE DETECTOR SHALL BE LOCATED UPSTREAM OF THE DAMPER.
 10. EXISTING EXHAUST FAN TO REMAIN. PROVIDE H-O-A MOTOR STARTER FAN ESTIMATED TO BE 1.5 HP, 480V, 3ø. FIELD VERIFY ACTUAL MOTOR SIZE AND FUSE ACCORDINGLY. MOTOR STARTER CONTROLLED BY A THERMOSTAT.
 11. PROVIDE H-O-A MOTOR STARTER. MOTOR STARTER CONTROLLED BY A THERMOSTAT.
 12. REFEED EXISTING RTU-1.
 13. PROVIDE POWER CONNECTION TO HOT WATER RECIRCULATION PUMPS. FRACT HP, 120V, 1ø.



a. dave wright
architect

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Drawn:	J. Blaser
Checked:	J. Blaser
Job No:	21-160
Scale:	as noted
Date:	05-06-2025
File Name:	21412 electrical
Drawing Title:	
Systems Plan - Area "B" Second Floor	
Sheet No.	
E1.8	

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BLASER ENG JOB# 24-142

GENERAL NOTES

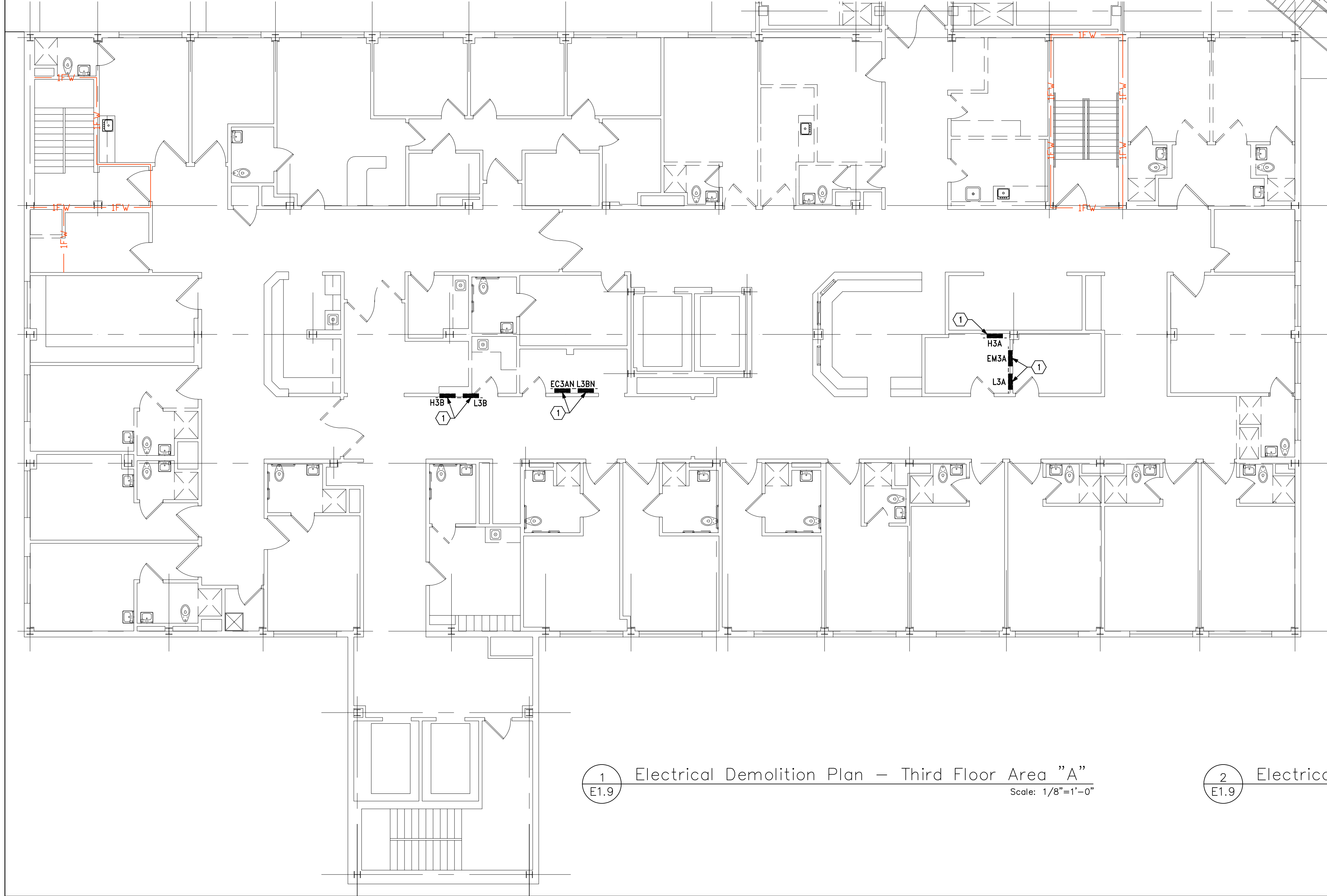
1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. CAREFULLY COORDINATE DEMOLITION OF EQUIPMENT AND EQUIPMENT TO REMAIN WITH THE ARCHITECT AND MECHANICAL ENGINEER. EXISTING EQUIPMENT TO REMAIN SHALL BE REFEED FROM NORMAL POWER.
2. CONTRACTOR SHALL REMOVE ALL WIRING FROM CIRCUITS TO BE DEMOLISHED AND REMOVE ALL UNUSED EXPOSED CONDUITS.
3. CONTRACTOR SHALL REMOVE THE FOLLOWING SYSTEMS FROM THIS FLOOR IN THEIR ENTIRETY.
 - 3.1. EXISTING LIGHTING AND EMERGENCY LIGHTING
 - 3.2. RECEPTACLES
 - 3.3. UNUSED MECHANICAL AND PLUMBING EQUIPMENT POWER CONNECTIONS
 - 3.4. FIRE ALARM DEVICES
 - 3.5. NURSE CALL AND CODE BLUE SYSTEMS
 - 3.6. PAGING AND INTERCOM SYSTEMS
 - 3.7. WIRELESS ACCESS POINTS
 - 3.8. NETWORKING WIRING
 - 3.9. ANALOG PHONE SYSTEM WIRING
 - 3.10. CAMERA SYSTEMS
 - 3.11. TELEVISION / CABLE TELEVISION
 - 3.12. OTHER HOSPITAL RELATED SYSTEMS
4. CONTRACTOR SHALL REMOVE ALL WIRING FROM CIRCUITS TO BE DEMOLISHED AND REMOVE ALL UNUSED EXPOSED CONDUITS.
5. CONTRACTOR SHALL REMOVE ALL DEVICES SCHEDULED FOR DEMOLITION. REFEED ANY DOWN STREAM DEVICES TO REMAIN. SEE ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION.
6. ALL DEVICES SHOWN WITH SUBSCRIPT (D) ARE SCHEDULED FOR

DEMOLITION. OTHER DEVICES MAY BE NOTED AS EXISTING TO REMAIN (E), OR RELOCATED (R).

7. EXISTING CONDITIONS WERE TAKEN FROM A SITE VISIT AND MAY NOT REFLECT "AS-BUILT" CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.
8. EXISTING RECEPTACLES AND OTHER ELECTRICAL BOXES MAY BE REUSED FOR NEW WORK IF LOCATED IN THE LOCATION SHOWN ON THE PLANS. ADJUST MOUNTING HEIGHTS TO MATCH HEIGHTS NOTED IN THESE PLANS. OTHER ELECTRICAL BOXES IN LOCATIONS NOT REUSED SHALL BE REMOVED AND THE WALL PATCHED TO MATCH EXISTING FINISHES.
9. ANY REMOVED EQUIPMENT IS THE PROPERTY OF THE OWNER AND SHALL BE OFFERED TO THE OWNER AS SALVAGE. IF THE OWNER DOES NOT WANT EQUIPMENT, THE CONTRACTOR SHALL RECYCLE OR DISPOSE OF IT PROPERLY.
10. EXISTING ELEVATORS AND ASSOCIATED ELECTRICAL DEVICES SHALL REMAIN IN SERVICE.

CODED NOTES

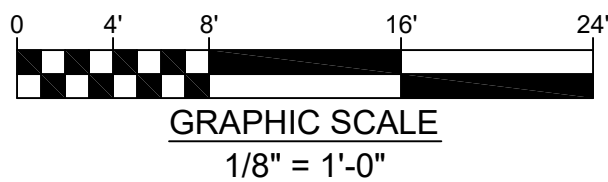
1. REMOVE EXISTING ELECTRICAL PANELS.



1 Electrical Demolition Plan - Third Floor Area "A"
E1.9 Scale: 1/8"=1'-0"



2 Electrical Demolition Plan - Third Floor Area "B"
E1.9 Scale: 1/8"=1'-0"



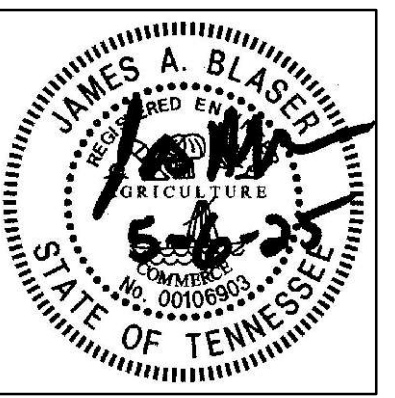
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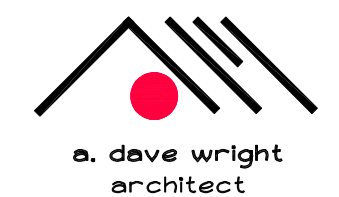
398 Moore Street
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BLASER ENG JOB# 24-142

Revisions	Description	Date	No.



Renovations for
Greene County Government
Greenville, Tennessee



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Drawn: J. Blaser
Checked: J. Blaser
Job No: 21-160
Scale: as noted
Date: 05-06-2025
File Name: 24142 electrical
Drawing Title:
Electrical Demolition
Plan - Third Floor

Sheet No.
E1.9

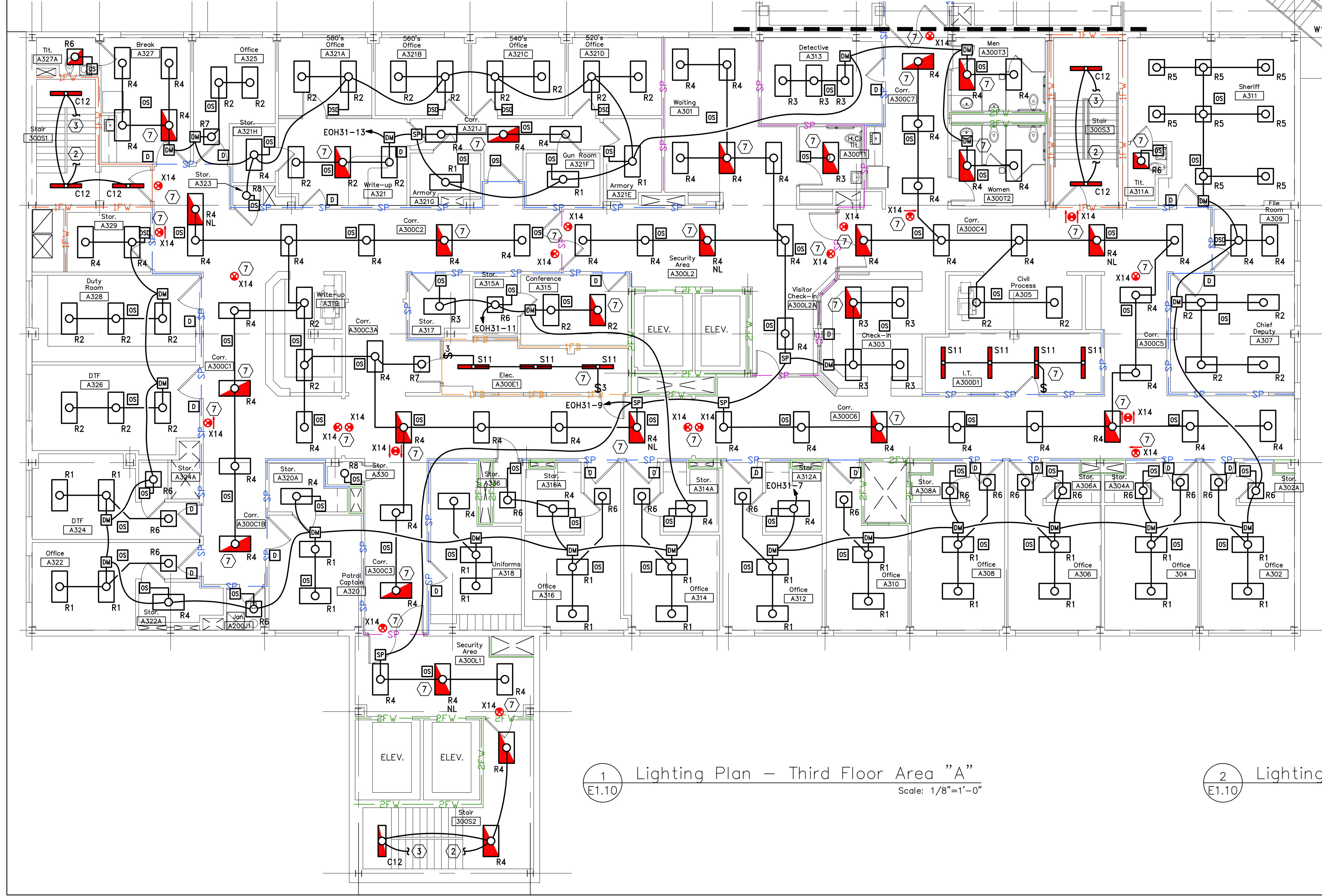
GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHTING FIXTURES.
2. PROVIDE DIMMING STATIONS AND ENTRY STATIONS WHERE SHOWN TO CONTROL THE LIGHTING CONTROL SYSTEM IN EACH AREA/ROOM.
3. THE LIGHTING CONTROL SYSTEM SHALL HAVE ALL COMPONENTS NECESSARY TO MAKE THE SYSTEM OPERATIONAL. THIS INCLUDES THE OCCUPANCY SENSORS, POWER SUPPLIES, SWITCH AND DIMMING PACKS, ALL CONTROL WIRING, ETC.
4. ALL EMERGENCY LIGHTING FIXTURES SHALL AUTOMATICALLY COME ON AT FULL BRIGHTNESS IN THE EVENT OF THE LOSS OF NORMAL POWER. PROVIDE UL924 LISTED DEVICES AS NECESSARY TO OVERRIDE ROOM LIGHTING CONTROLS AND TRANSFER TO EMERGENCY POWER.
5. INTERIOR LIGHTING DENSITY CALCULATED AT 0.533 W/SQ.FT. ON THE THIRD FLOOR.
6. PROVIDE LOW VOLTAGE WIRING BETWEEN OCCUPANCY SENSORS. CIRCUITRY FOR THE SENSORS SHALL FOLLOW THE SAME SWITCHING ZONES AS THE LIGHTING CIRCUITRY.
7. LOCATION OF LIGHTING FIXTURES IN MECHANICAL ROOMS SHALL BE COORDINATED IN FIELD WITH MECHANICAL DUCTWORK, PIPING, ETC.
8. STAIRWELL LIGHTS SHALL REMAIN ON AT ALL TIMES.

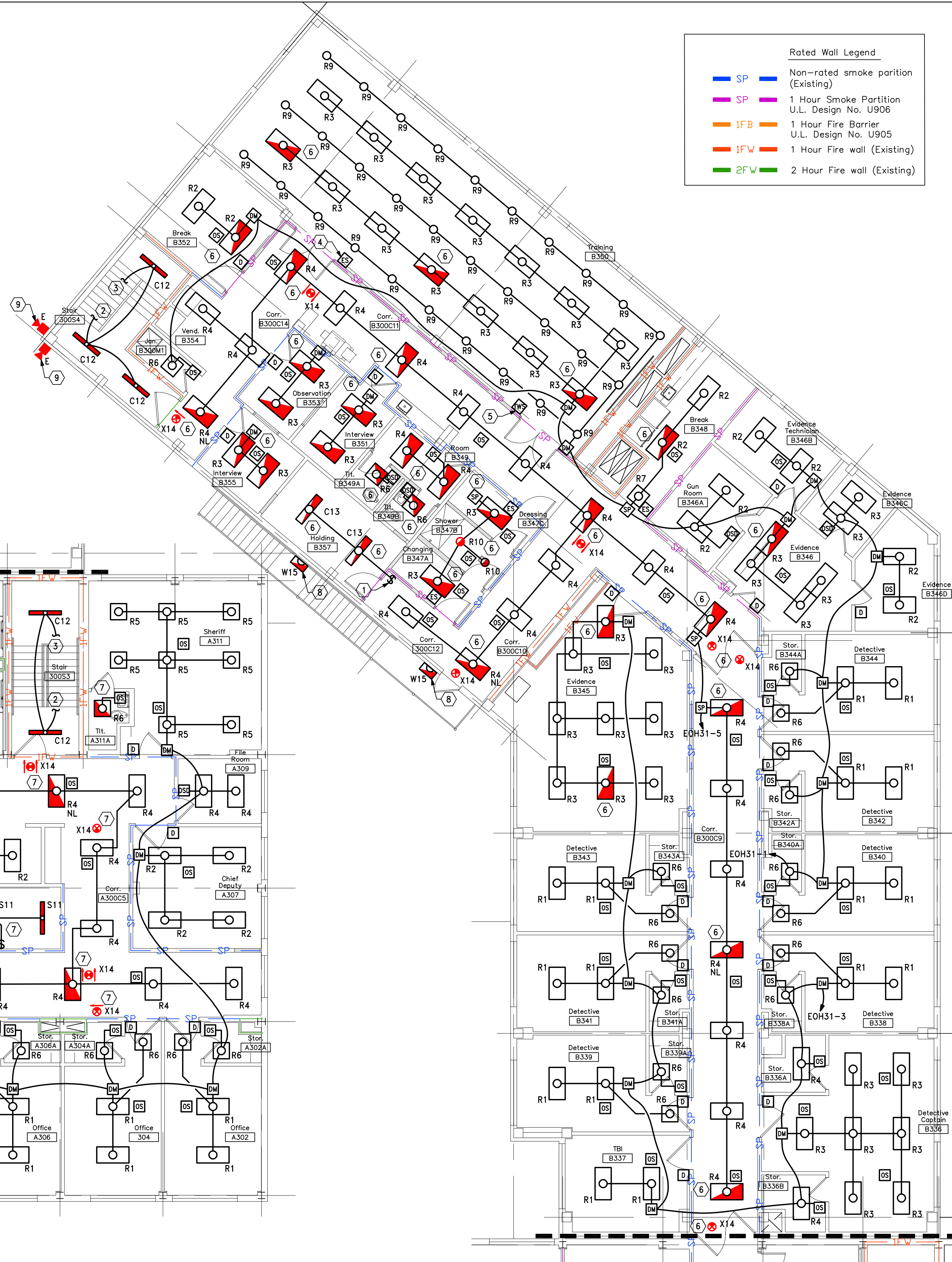
CODED NOTES

1. PROVIDE LABEL ON LIGHT SWITCH "HOLDING ROOM LIGHTS".
2. UNSWITCHED LIGHTING CIRCUIT FROM SECOND FLOOR STAIRWELL LIGHTS.
3. UNSWITCHED LIGHTING CIRCUIT TO FOURTH FLOOR STAIRWELL LIGHTS.
4. PROVIDE 4 BUTTON ENTRY STATION WITH ON-OFF AND 2 PRESET SCENES BUTTONS.
5. PROVIDE TOUCHSCREEN WALL STATION TO ADJUST THE LIGHTING IN THE CONFERENCE ROOM.
6. PROVIDE POWER FOR EMERGENCY LIGHTS AND EXIT SIGNAGE FROM EMERGENCY LIGHTING CIRCUIT EEH31-1. FIXTURE TO BE CONTROLLED BY ROOM/AREA OCCUPANCY SENSOR THROUGH A UL924 LISTED SWITCHPACK. FIXTURE TO OVERRIDE ROOM CONTROLS UPON LOSS OF NORMAL POWER. DEVICE EQUAL TO WATTSTOPPER ELCU-200. MULTIPLE EMERGENCY FIXTURES IN THE SAME ROOM CAN BE ON ONE UL924 DEVICE.
7. PROVIDE POWER FOR EMERGENCY LIGHTS AND EXIT SIGNAGE FROM EMERGENCY LIGHTING CIRCUIT EEH31-3. FIXTURE TO BE CONTROLLED BY ROOM/AREA OCCUPANCY SENSOR THROUGH A UL924 LISTED SWITCHPACK. FIXTURE TO OVERRIDE ROOM CONTROLS UPON LOSS OF NORMAL POWER. DEVICE EQUAL TO WATTSTOPPER ELCU-200. MULTIPLE EMERGENCY FIXTURES IN THE SAME ROOM CAN BE ON ONE UL924 DEVICE.
8. PROVIDE EXTERIOR LIGHT AT STAIR LANDINGS. CIRCUIT FROM EXTERIOR EMERGENCY LIGHTING CIRCUIT EOP23-9. PROVIDE PHOTO CELL CONTROL ON THE CIRCUIT.
9. EXISTING EXTERIOR FLOODLIGHT. RECIRCUIT FROM EXTERIOR EMERGENCY LIGHTING CIRCUIT EOP23-9. PROVIDE PHOTO CELL CONTROL ON THE CIRCUIT.

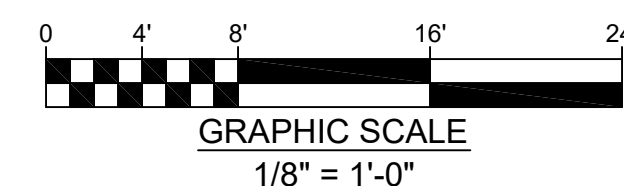
Rated Wall Legend	
— SP	Non-rated smoke partition (Existing)
— SP	1 Hour Smoke Partition U.L. Design No. U906
— 1FB	1 Hour Fire Barrier U.L. Design No. U905
— 1FW	1 Hour Fire wall (Existing)
— 2FW	2 Hour Fire wall (Existing)



1 Lighting Plan - Third Floor Area "A"
E1.10 Scale: 1/8"=1'-0"



2 Lighting Plan - Third Floor Area "B"
E1.10 Scale: 1/8"=1'-0"



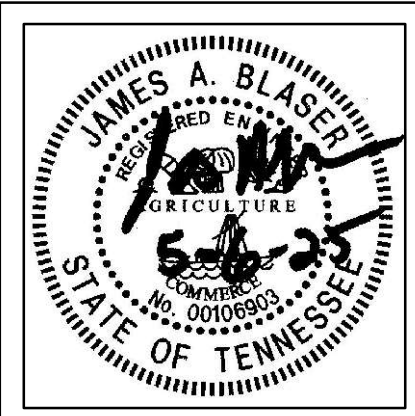
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BLASER ENG JOB# 24-142

Revisions	Description	Date	No.



Renovations for
Greene County Government
Greenville, Tennessee

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Drawn:	J. Blaser
Checked:	J. Blaser
Job No:	21-160
Scale:	as noted
Date:	05-06-2025
File Name:	24142 electrical
Drawing Title:	Lighting Plan - Third Floor
Sheet No.	E1.10

GENERAL NOTES

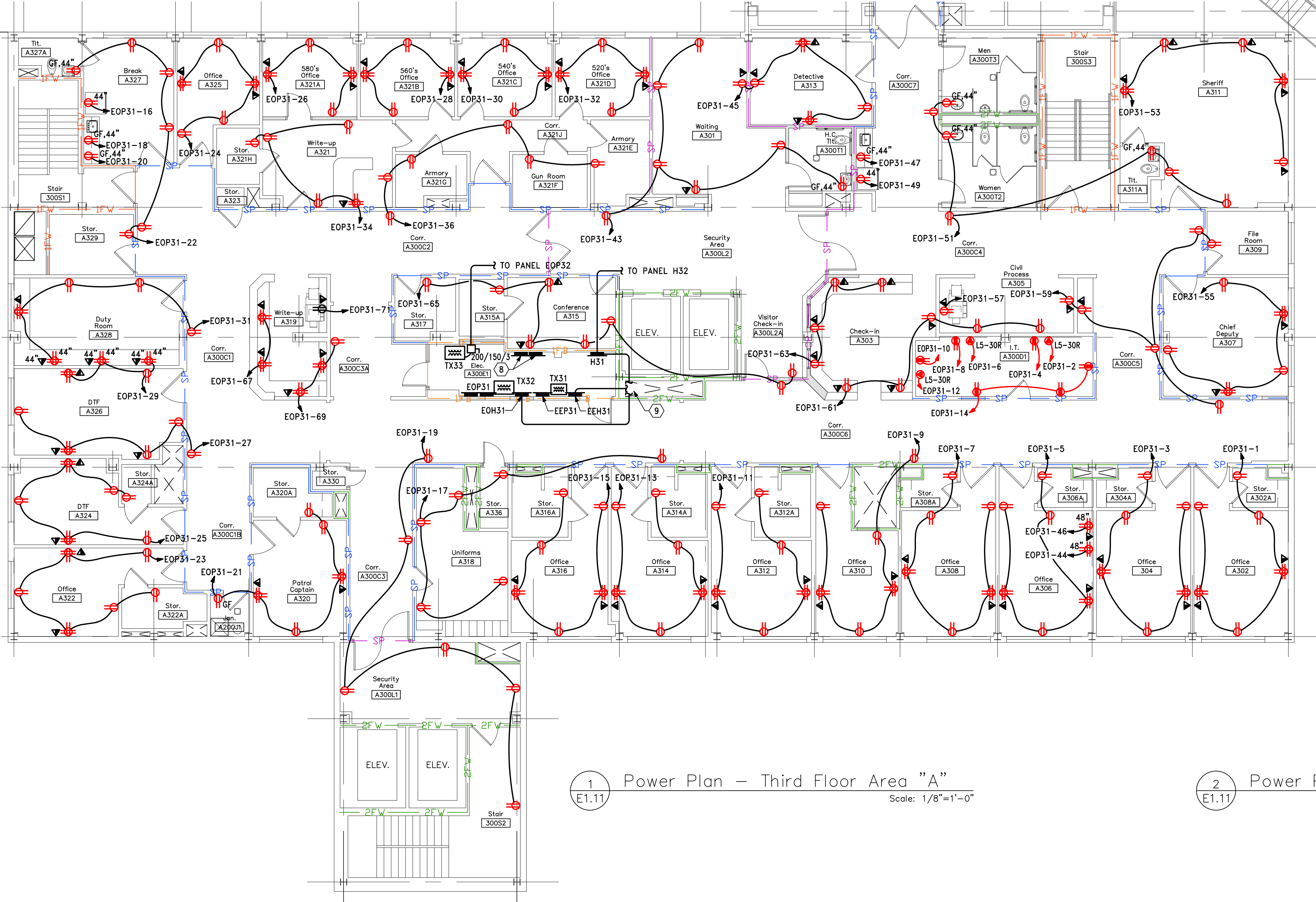
- EMERGENCY RESPONDER RADIO COVERAGE: INCLUDE FEE FOR TESTING THE BUILDING AS PART OF THE ELECTRICAL BID AND WORST CASE SCENARIO (FULL COVERAGE) PRICING AS A SEPARATE LINE ITEM. THE PRICING WILL BE ADJUSTED AFTER THE TEST RESULTS DETERMINE THE REQUIRED EQUIPMENT.
- COORDINATE CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- ALL DEVICES SHALL BE TAMPER RESISTANT PER NEC 406.12.
- ALL FIRE ALARM SYSTEM DEVICES SHALL BE FULLY COMPATIBLE WITH THE EXISTING NOTIFIER FIRE ALARM SYSTEM.
- ALL WIRING SHALL BE PLENUM RATED, OR INSTALLED IN CONDUIT.
- PROVIDE #2 AWG GROUND WIRE FROM THE MAIN SERVICE GROUNDING BUS TO THE TELEPHONE TERMINAL BOARD. PROVIDE 0.25" X 2" X 12" COPPER GROUNDING BUS BAR MOUNTED ON INSULATED STANDOFFS ANCHORED WITH STAINLESS STEEL BRACKETS EQUAL TO ERICO TGB-A12L06PT.
- PROVIDE CONDUIT SLEEVES ABOVE ALL DOORS TO ROOMS SHOWN WITH PHONE, DATA, TELEVISION, OR OTHER LOW VOLTAGE COMMUNICATIONS SYSTEMS. PROVIDE AS FOLLOWS:
 - 2 - 4" CONDUIT SLEEVES INTO THE IT/SERVER ROOMS AND IDF ROOMS.
 - 2 - 2" CONDUIT SLEEVES INTO OPEN OFFICE AREAS.
 - 2 - 1" CONDUIT SLEEVES INTO OFFICES, BREAK ROOMS, OR OTHER SPACES.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL STRING.
- PER NEC 210.8, ALL GROUND FAULT RECEPTACLES ARE TO BE IN A READILY ACCESSIBLE LOCATION. IF NOT, PROVIDE A GROUND FAULT CIRCUIT BREAKER IN THE PANEL, OR A DEAD FRONT GROUND FAULT DEVICE IN AN ACCESSIBLE LOCATION SERVING THE INACCESSIBLE DEVICE.
- COORDINATE ACTUAL MOUNTING LOCATIONS OF ALL EQUIPMENT WITH CONTRACTOR PROVIDING THE EQUIPMENT.
- PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT SUPPLIED BY OTHERS.

- PROVIDE NEMA 3R RATED SAFETY SWITCHES WHERE LOCATED OUTDOORS.
- PROVIDE MATCHING PLUG, PIGTAIL, AND CONNECTIONS TO EQUIPMENT FOR ALL SPECIAL PURPOSE RECEPTACLES.
- COORDINATE RECEPTACLE PLACEMENT WITH ARCHITECTURAL SECTIONS AND ELEVATIONS.

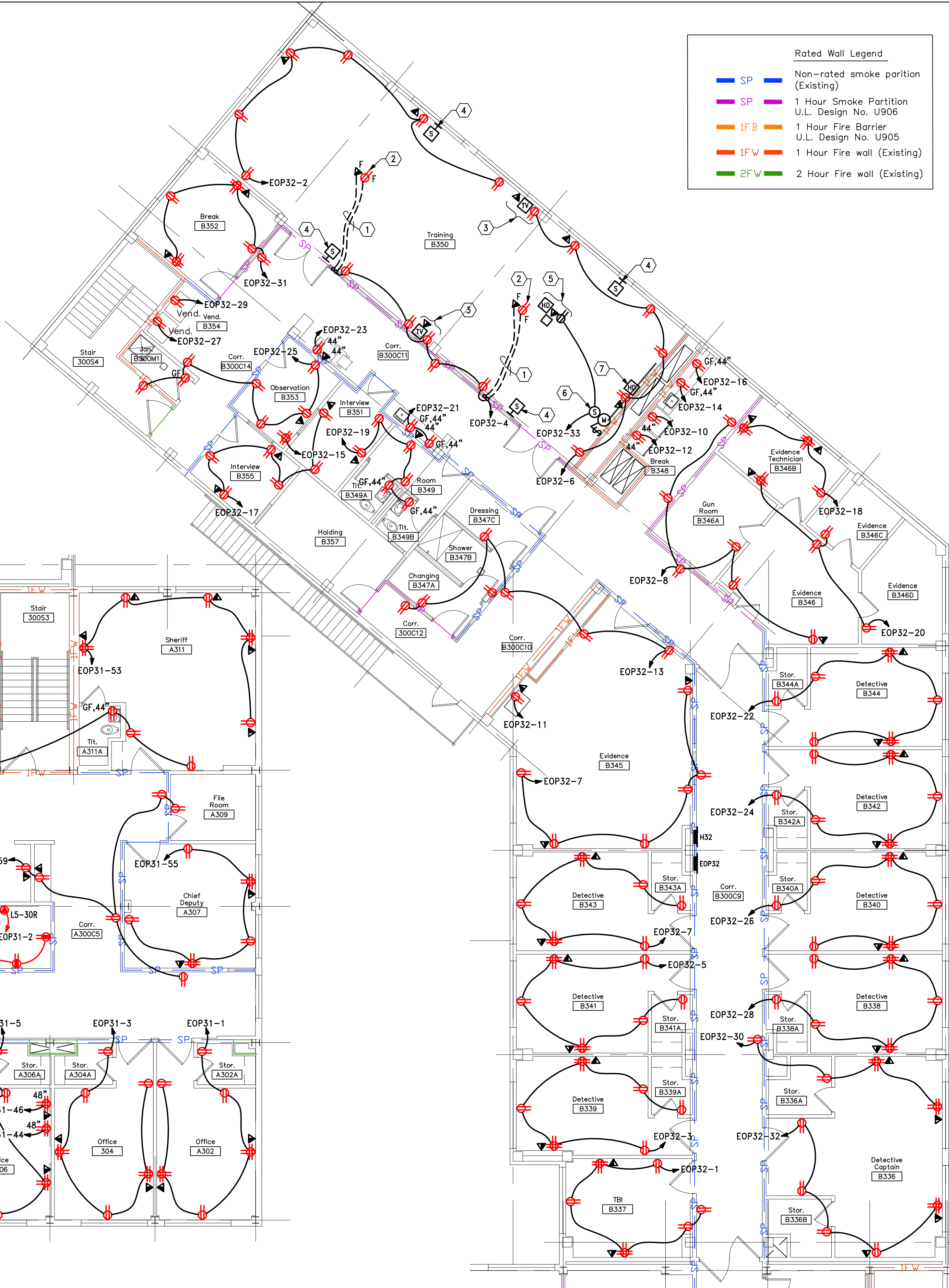
CODED NOTES

- PROVIDE UNDERSLAB CONDUITS TO FLOOR RECEPTACLE AND DATA JACK. PROVIDE A MINIMUM OF 1" CONDUIT FOR CONDUIT FOR EACH OF THE POWER AND LOW VOLTAGE WIRING CONDUITS.
- CONTRACTOR SHALL COORDINATE LOCATION OF FLOOR BOX / POKE-THRU WITH THE OWNER.
- PROVIDE WALL BOX AT 72" FOR A DUPLEX RECEPTACLE, TV JACK, AND DATA JACKS MOUNTED BEHIND THE WALL MOUNTED TELEVISION. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH OWNER PRIOR TO ROUGH-IN. PROVIDE 1" CONDUITS TO ABOVE CEILING FOR FUTURE LOW VOLTAGE WIRING.
- PROVIDE ROUGH-IN FOR WALL MOUNTED SPEAKER. COORDINATE EXACT LOCATION WITH OWNER.
- PROVIDE CEILING MOUNTED RECEPTACLE, DATA JACK, AND HDMI JACK IN THE CEILING FOR CONNECTIONS TO THE CEILING MOUNTED PROJECTOR. COORDINATE EXACT LOCATION OF THE PROJECTOR IN THE FIELD PRIOR TO ROUGH-IN.
- PROVIDE POWER CONNECTION TO THE MOTORIZED SCREEN. PROVIDE WIRING AND INTERCONNECTIONS TO THE SCREEN UP/DOWN CONTROLLER.
- PROVIDE HDMI JACK IN THE WALL FOR VIDEO INPUT TO THE CEILING MOUNTED PROJECTOR. COORDINATE REQUIREMENTS WITH THE EQUIPMENT SUPPLIER.
- FIRE ALARM SYSTEM POWER SUPPLY AND VOICE EVACUATION PANEL POWER SUPPLY.
- PROVIDE CONDUITS IN CHASE DOWN TO SECOND FLOOR AND THEN BACK TO TO PENTHOUSE ELECTRICAL ROOM.

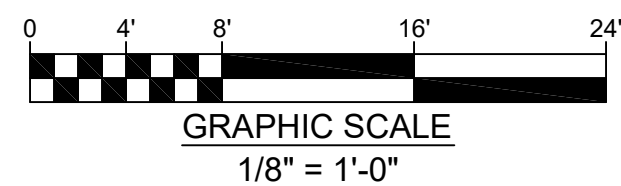
Rated Wall Legend	
SP	Non-rated smoke partition (Existing)
SP	1 Hour Smoke Partition U.L. Design No. U906
1FB	1 Hour Fire Barrier U.L. Design No. U905
1FW	1 Hour Fire wall (Existing)
2FW	2 Hour Fire wall (Existing)



1 Power Plan - Third Floor Area "A"
E1.11 Scale: 1/8"=1'-0"



2 Power Plan - Third Floor Area "B"
E1.11 Scale: 1/8"=1'-0"

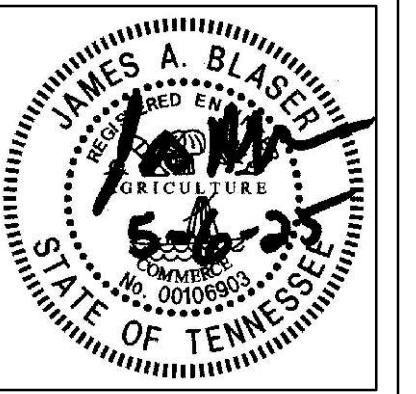


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BLASER ENG JOB# 24-142

Revisions	Description	Date	No.



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Drawn: J. Blaser
Checked: J. Blaser
Job No: 21-160
Scale: as noted
Date: 05-06-2025
File Name: 24142 electrical
Drawing Title:
Power Plan - Third Floor

Sheet No.
E1.11

GENERAL NOTES

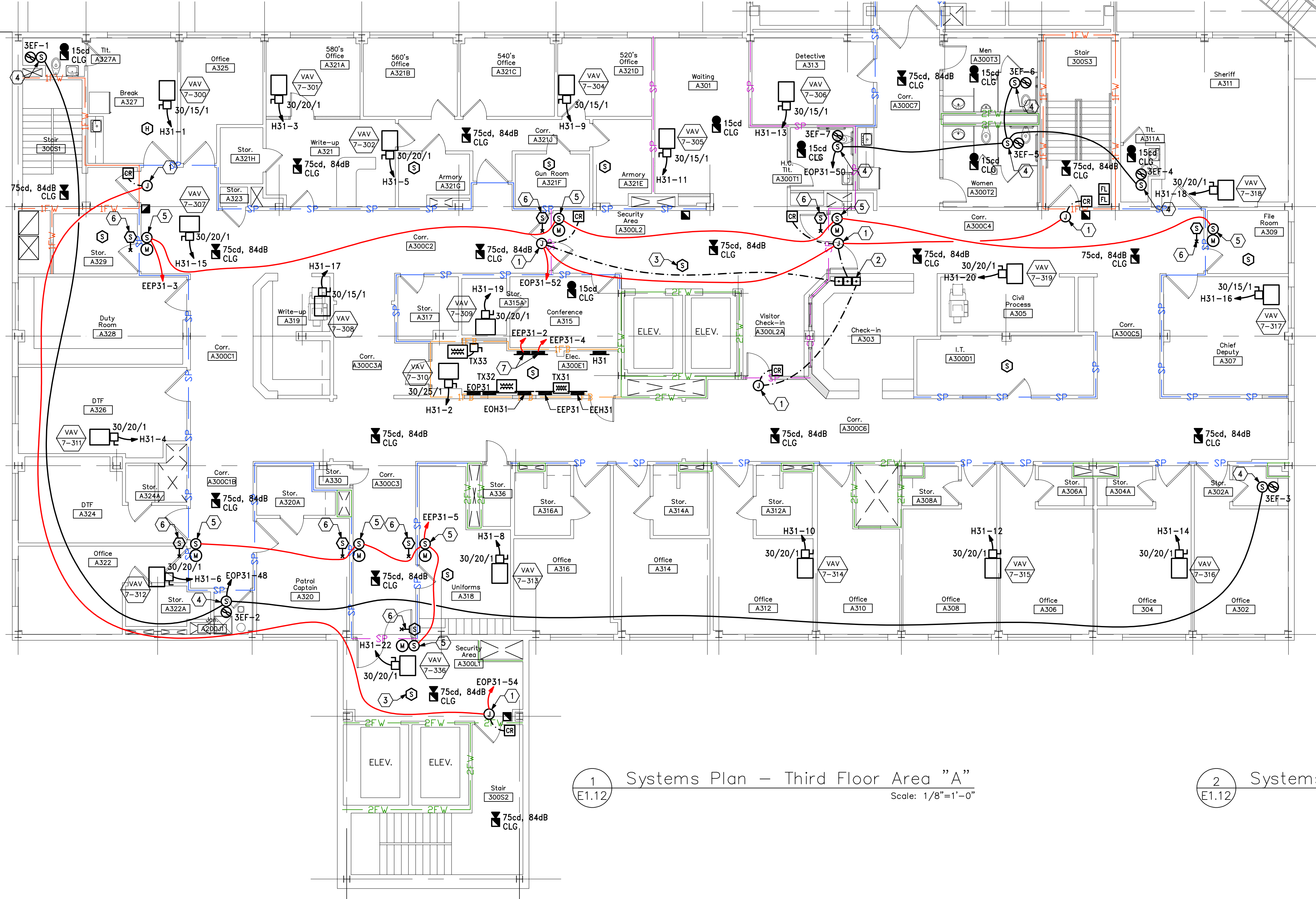
- EMERGENCY RESPONDER RADIO COVERAGE: INCLUDE FEE FOR TESTING THE BUILDING AS PART OF THE ELECTRICAL BID AND WORST CASE SCENARIO (FULL COVERAGE) PRICING AS A SEPARATE LINE ITEM. THE PRICING WILL BE ADJUSTED AFTER THE TEST RESULTS DETERMINE THE REQUIRED EQUIPMENT.
- COORDINATE CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- ALL DEVICES SHALL BE TAMPER RESISTANT PER NEC 406.12.
- ALL FIRE ALARM SYSTEM DEVICES SHALL BE FULLY COMPATIBLE WITH THE EXISTING NOTIFIER FIRE ALARM SYSTEM.
- ALL WIRING SHALL BE PLENUM RATED, OR INSTALLED IN CONDUIT.
- PROVIDE #2 AWG GROUND WIRE FROM THE MAIN SERVICE GROUNDING BUS TO THE TELEPHONE TERMINAL BOARD. PROVIDE 0.25" X 2" X 12" COPPER GROUNDING BUS BAR MOUNTED ON INSULATED STANDOFFS ANCHORED WITH STAINLESS STEEL BRACKETS EQUAL TO ERICO TGB-A12L06PT.
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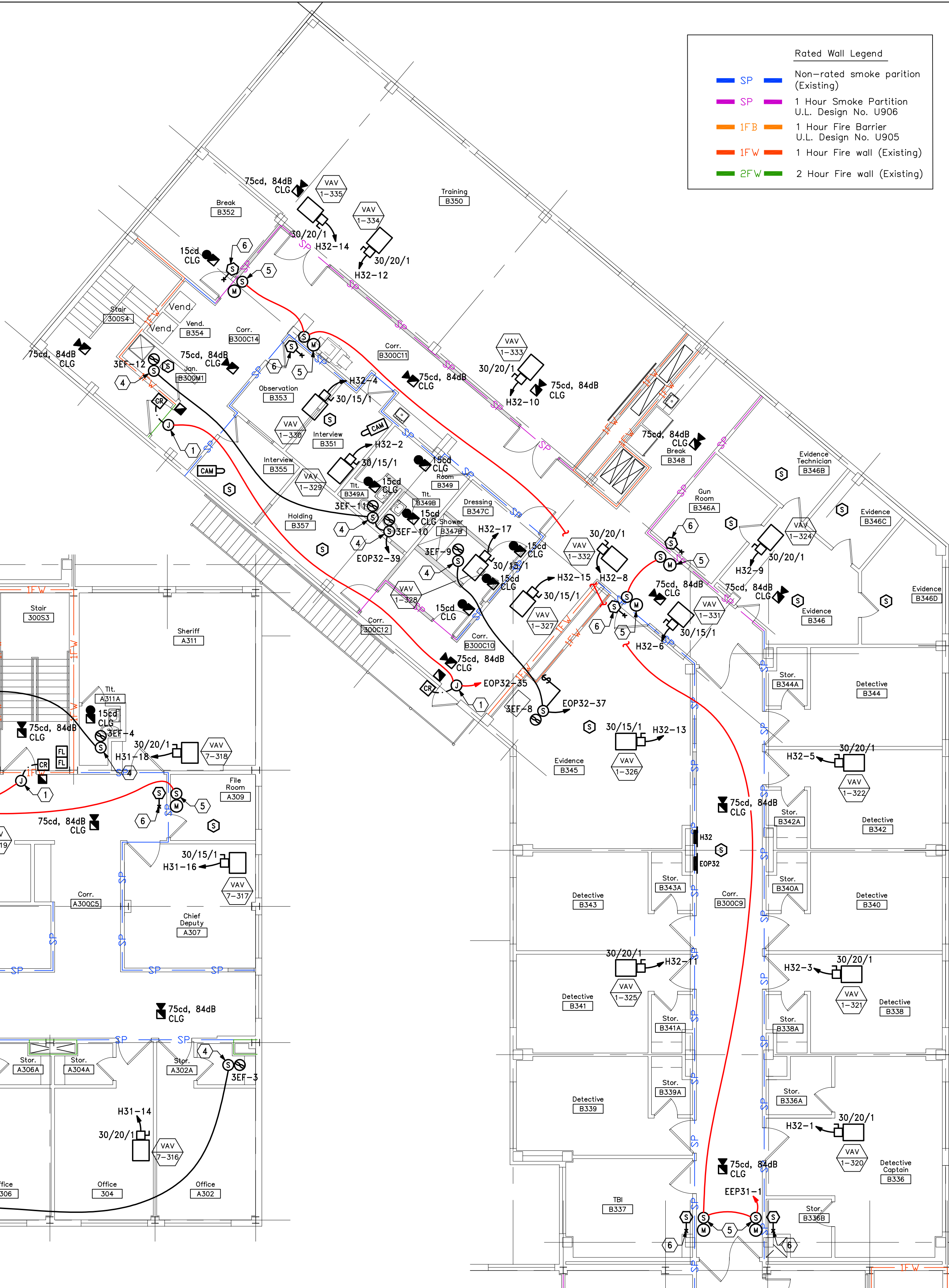
CODED NOTES

- PROVIDE POWER CONNECTION TO DOOR SECURITY POWER SUPPLY. POWER SUPPLY SHALL INTERFACE WITH THE FIRE ALARM SYSTEM TO RELEASE THE DOOR UPON A FIRE ALARM. PROVIDE 3/4" CONDUIT AND WIRING FROM POWER SUPPLY THE CARD READER AND DOOR STRIKE.
- PROVIDE DOOR RELEASE PUSH-BUTTON AT THE CHECK-IN DESK. TYPICAL OF 3.
- PROVIDE SMOKE DETECTOR TIED TO THE ELEVATOR RECALL SYSTEM. SEE DETAIL.
- EXHAUST FAN TO BE CONTROLLED BY ROOM OCCUPANCY SENSOR(S) VIA ADDITIONAL SWITCHPACK, OR BY DUAL POLE WALL MOUNTED OCCUPANCY SENSOR SHARED WITH LIGHTING CONTROLS. DEVICE SHALL BE UL LISTED FOR 277 VOLT LIGHTING AND 120 VOLT FAN CONNECTIONS. COORDINATE LOCATION OF ROOF OR WALL MOUNTED FAN WITH THE MECHANICAL CONTRACTOR.
- PROVIDE 120V, 1Ø POWER CONNECTION TO SMOKE DAMPER. COORDINATE DAMPER VOLTAGE AND PROVIDE STEP DOWN TRANSFORMER AS REQUIRED. INTERFACE SMOKE DAMPER WITH THE FIRE ALARM SYSTEM. SMOKE DAMPER TO SHUTDOWN ON ALARM CONDITION.
- PROVIDE DUCT SMOKE DETECTOR TO CLOSE THE ASSOCIATED SMOKE DAMPER UPON DETECTION OF SMOKE. DUCT SMOKE DETECTOR SHALL BE LOCATED UPSTREAM OF THE DAMPER.
- PROVIDE POWER TO FIRE ALARM SYSTEM POWER SUPPLY AND VOICE EVACUATION PANEL POWER SUPPLY.

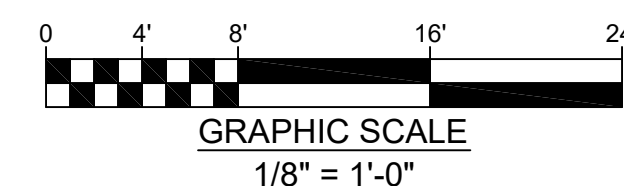
Rated Wall Legend	
— SP	Non-rated smoke partition (Existing)
— SP	1 Hour Smoke Partition U.L. Design No. U906
— 1FB	1 Hour Fire Barrier U.L. Design No. U905
— 1FW	1 Hour Fire wall (Existing)
— 2FW	2 Hour Fire wall (Existing)



1 Systems Plan - Third Floor Area "A"
E1.12 Scale: 1/8"=1'-0"



2 Systems Plan - Third Floor Area "B"
E1.12 Scale: 1/8"=1'-0"

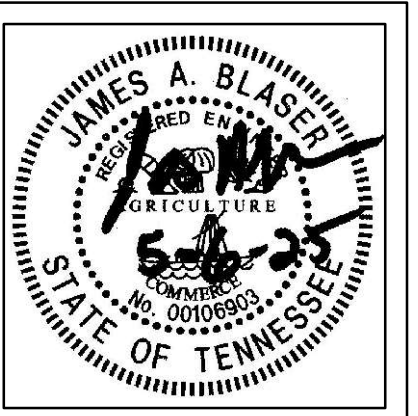


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BLASER ENG JOB# 24-142

Revisions	Description	Date	No.



Renovations for
Greene County Government
Greeneville, Tennessee

a. dave wright architect
110 S. Main Street
Greeneville, TN 37743
Phone: (423) 525-5093
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Drawn: J. Blaser
Checked: J. Blaser
Job No: 21-160
Scale: as noted
Date: 05-06-2025
File Name: 24142 electrical
Drawing Title: Systems Plan - Third Floor
Sheet No: E1.12

GENERAL NOTES

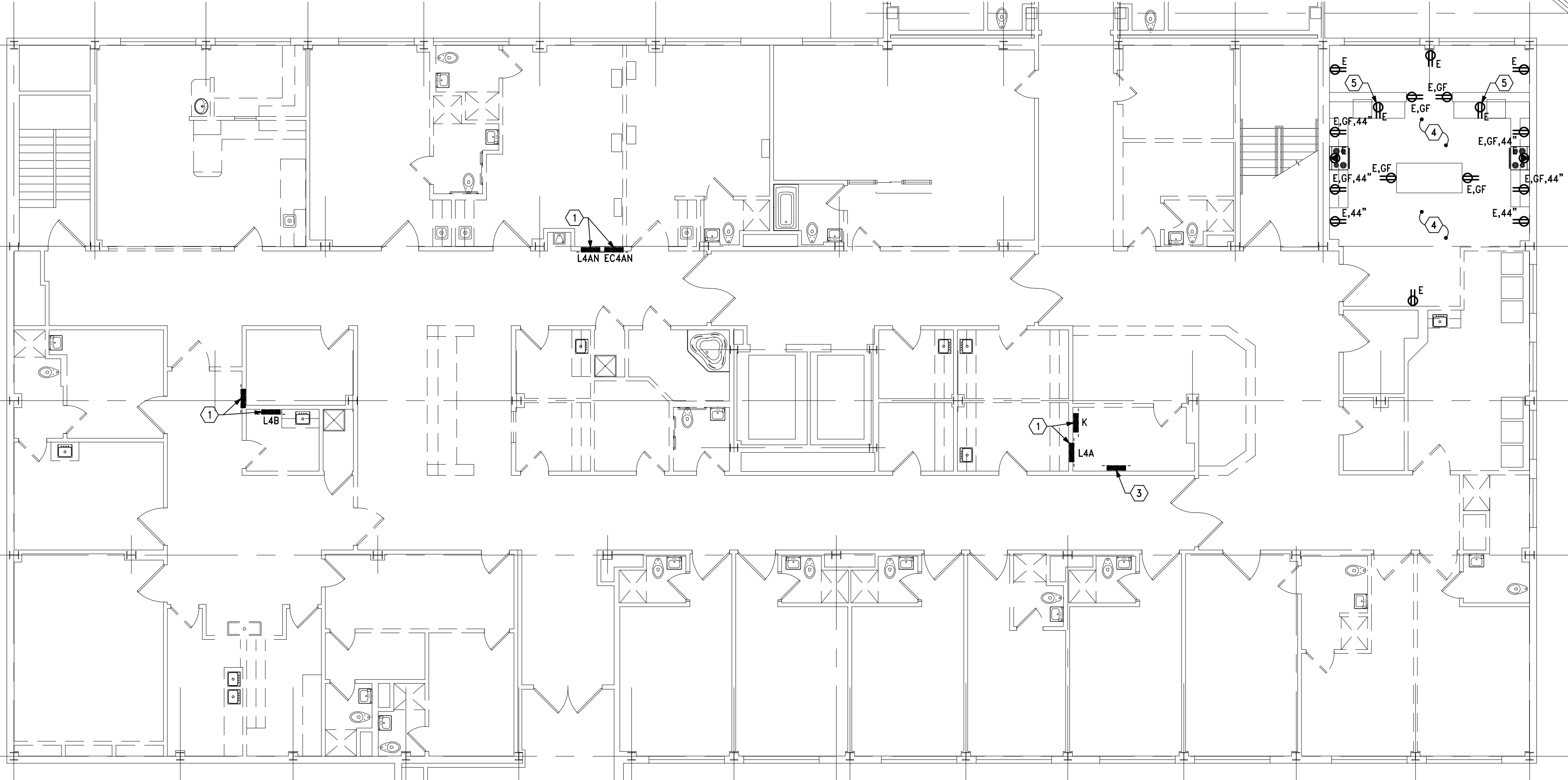
1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. CAREFULLY COORDINATE DEMOLITION OF EQUIPMENT AND EQUIPMENT TO REMAIN WITH THE ARCHITECT AND MECHANICAL ENGINEER. EXISTING EQUIPMENT TO REMAIN SHALL BE REFEED FROM NORMAL POWER.
2. CONTRACTOR SHALL REMOVE ALL WIRING FROM CIRCUITS TO BE DEMOLISHED AND REMOVE ALL UNUSED EXPOSED CONDUITS.
3. CONTRACTOR SHALL REMOVE THE FOLLOWING SYSTEMS FROM THIS FLOOR IN THEIR ENTIRETY.
 - 3.1. EXISTING LIGHTING AND EMERGENCY LIGHTING
 - 3.2. RECEPTACLES
 - 3.3. UNUSED MECHANICAL AND PLUMBING EQUIPMENT POWER CONNECTIONS
 - 3.4. FIRE ALARM DEVICES
 - 3.5. NURSE CALL AND CODE BLUE SYSTEMS
 - 3.6. PAGING AND INTERCOM SYSTEMS
 - 3.7. WIRELESS ACCESS POINTS
 - 3.8. NETWORKING WIRING
 - 3.9. ANALOG PHONE SYSTEM WIRING
 - 3.10. CAMERA SYSTEMS
 - 3.11. TELEVISION / CABLE TELEVISION
 - 3.12. OTHER HOSPITAL RELATED SYSTEMS
4. CONTRACTOR SHALL REMOVE ALL WIRING FROM CIRCUITS TO BE DEMOLISHED AND REMOVE ALL UNUSED EXPOSED CONDUITS.
5. CONTRACTOR SHALL REMOVE ALL DEVICES SCHEDULED FOR DEMOLITION. REFEED ANY DOWN STREAM DEVICES TO REMAIN. SEE ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION.
6. ALL DEVICES SHOWN WITH SUBSCRIPT (D) ARE SCHEDULED FOR

DEMOLITION. OTHER DEVICES MAY BE NOTED AS EXISTING TO REMAIN (E), OR RELOCATED (R).

7. EXISTING CONDITIONS WERE TAKEN FROM A SITE VISIT AND MAY NOT REFLECT "AS-BUILT" CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.
8. EXISTING RECEPTACLES AND OTHER ELECTRICAL BOXES MAY BE REUSED FOR NEW WORK IF LOCATED IN THE LOCATION SHOWN ON THE PLANS. ADJUST MOUNTING HEIGHTS TO MATCH HEIGHTS NOTED IN THESE PLANS. OTHER ELECTRICAL BOXES IN LOCATIONS NOT REUSED SHALL BE REMOVED AND THE WALL PATCHED TO MATCH EXISTING FINISHES.
9. ANY REMOVED EQUIPMENT IS THE PROPERTY OF THE OWNER AND SHALL BE OFFERED TO THE OWNER AS SALVAGE. IF THE OWNER DOES NOT WANT EQUIPMENT, THE CONTRACTOR SHALL RECYCLE OR DISPOSE OF IT PROPERLY.
10. EXISTING ELEVATORS AND ASSOCIATED ELECTRICAL DEVICES SHALL REMAIN IN SERVICE.

CODED NOTES

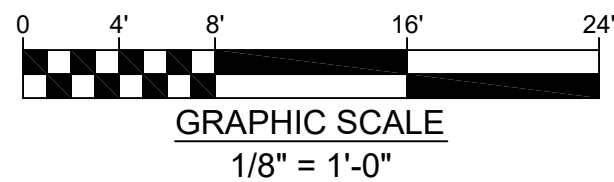
1. REMOVE EXISTING ELECTRICAL PANELS.
2. REMOVE TRANSFORMERS, NURSE CALL SYSTEM, ETC FROM THIS ROOM.
3. REMOVE (EDWARDS) FIRE ALARM POWER SUPPLY.
4. EXISTING KITCHEN AND COUNTERTOPS TO REMAIN IN THIS AREA. REFEED EXISTING RECEPTACLES FROM NEW ELECTRICAL PANEL.
5. EXISTING RECEPTACLE IN SINK BASE FOR DISHWASHER. REFEED FROM NEW ELECTRICAL PANEL.



1 Electrical Demolition Plan – Fourth Floor Area "A"
E1.13 Scale: 1/8"=1'-0"



2 Electrical Demolition Plan – Fourth Floor Area "B"
E1.13 Scale: 1/8"=1'-0"



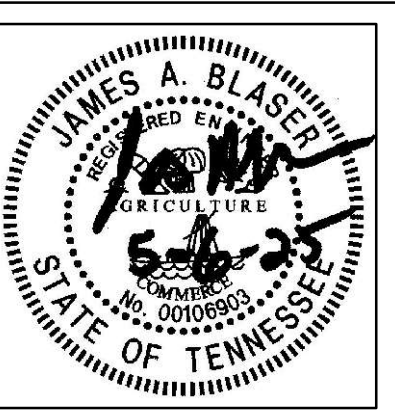
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Blaser Engineering

398 Moore Street
Bristol, VA 24201
Phone: (423) 525-5093

BLASER ENG JOB# 24-142

Revisions		Description	
No	Date		



Renovations for
Greene County Government
Greenville, Tennessee



Drawn: J. Blaser
Checked: J. Blaser
Job No: 21-160
Scale: as noted
Date: 05-06-2025
File Name: 24142 electrical
Drawing Title:
Electrical Demolition
Plan – Fourth Floor

Sheet No.
E1.13

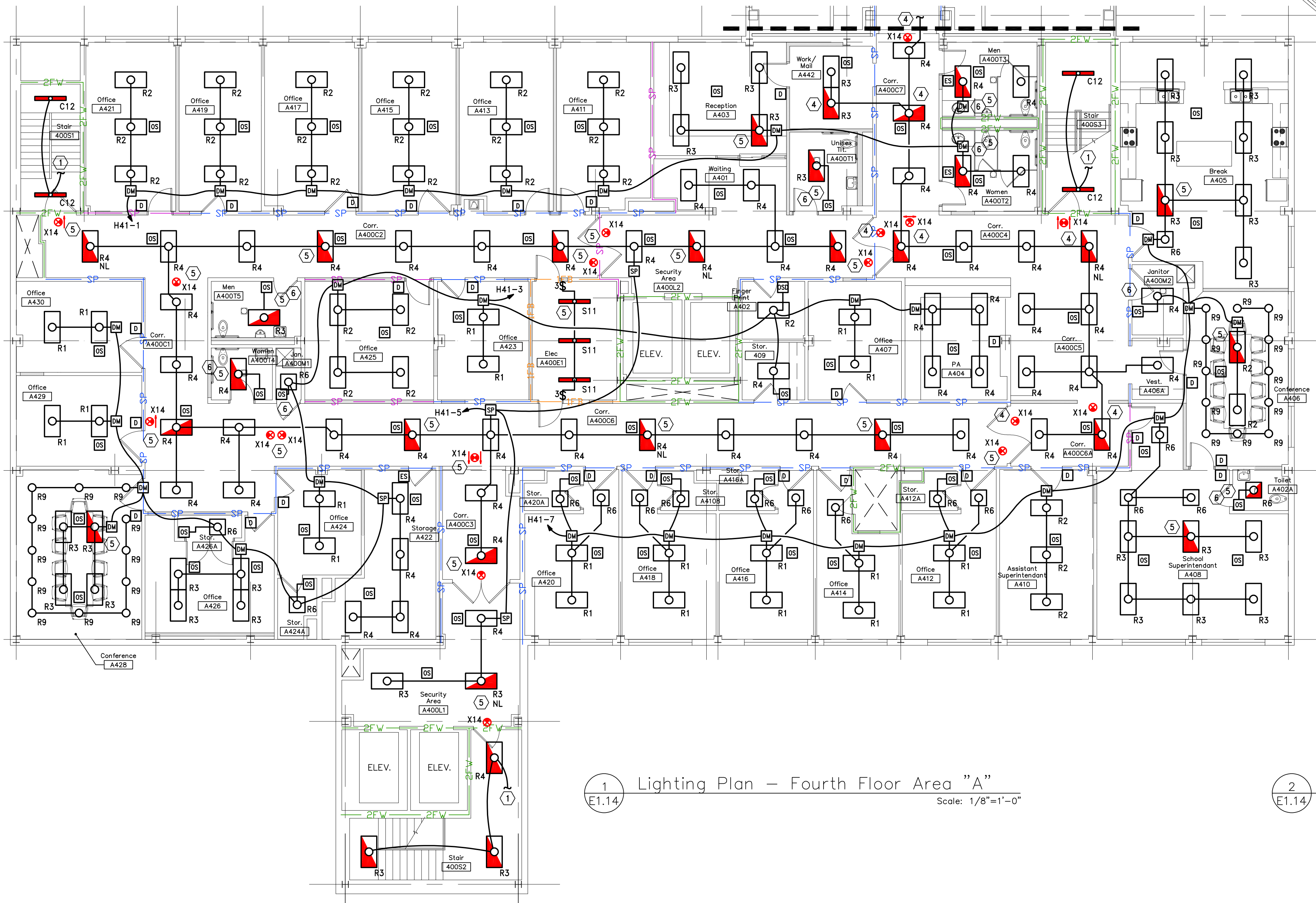
GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHTING FIXTURES.
2. PROVIDE DIMMING STATIONS AND ENTRY STATIONS WHERE SHOWN TO CONTROL THE LIGHTING CONTROL SYSTEM IN EACH AREA/ROOM.
3. THE LIGHTING CONTROL SYSTEM SHALL HAVE ALL COMPONENTS NECESSARY TO MAKE THE SYSTEM OPERATIONAL. THIS INCLUDES THE OCCUPANCY SENSORS, POWER SUPPLIES, SWITCH AND DIMMING PACKS, ALL CONTROL WIRING, ETC.
4. ALL EMERGENCY LIGHTING FIXTURES SHALL AUTOMATICALLY COME ON AT FULL BRIGHTNESS IN THE EVENT OF THE LOSS OF NORMAL POWER. PROVIDE UL924 LISTED DEVICES AS NECESSARY TO OVERRIDE ROOM LIGHTING CONTROLS AND TRANSFER TO EMERGENCY POWER.
5. INTERIOR LIGHTING DENSITY CALCULATED AT 0.531 W/SQ.FT. ON THE FOURTH FLOOR.
6. PROVIDE LOW VOLTAGE WIRING BETWEEN OCCUPANCY SENSORS. CIRCUITRY FOR THE SENSORS SHALL FOLLOW THE SAME SWITCHING ZONES AS THE LIGHTING CIRCUITRY.
7. LOCATION OF LIGHTING FIXTURES IN MECHANICAL ROOMS SHALL BE COORDINATED IN FIELD WITH MECHANICAL DUCTWORK, PIPING, ETC.
8. STAIRWELL LIGHTS SHALL REMAIN ON AT ALL TIMES.

CODED NOTES

1. UNSWITCHED LIGHTING CIRCUIT FROM THIRD FLOOR STAIRWELL LIGHTS.
2. PROVIDE 4 BUTTON ENTRY STATION WITH ON-OFF AND 2 PRESET SCENES BUTTONS.
3. PROVIDE TOUCHSCREEN WALL STATION TO ADJUST THE LIGHTING IN THE CONFERENCE ROOM.
4. PROVIDE POWER FOR EMERGENCY LIGHTS AND EXIT SIGNAGE FROM EMERGENCY LIGHTING CIRCUIT EEH41-3. FIXTURE TO BE CONTROLLED BY ROOM/AREA OCCUPANCY SENSOR THROUGH A UL924 LISTED SWITCHPACK. FIXTURE TO OVERRIDE ROOM CONTROLS UPON LOSS OF NORMAL POWER. DEVICE EQUAL TO WATTSTOPPER ELCU-200. MULTIPLE EMERGENCY FIXTURES IN THE SAME ROOM CAN BE ON ONE UL924 DEVICE.
5. PROVIDE POWER FOR EMERGENCY LIGHTS AND EXIT SIGNAGE FROM EMERGENCY LIGHTING CIRCUIT EEH41-3. FIXTURE TO BE CONTROLLED BY ROOM/AREA OCCUPANCY SENSOR THROUGH A UL924 LISTED SWITCHPACK. FIXTURE TO OVERRIDE ROOM CONTROLS UPON LOSS OF NORMAL POWER. DEVICE EQUAL TO WATTSTOPPER ELCU-200. MULTIPLE EMERGENCY FIXTURES IN THE SAME ROOM CAN BE ON ONE UL924 DEVICE.
6. EXHAUST FAN TO BE CONTROLLED BY ROOM OCCUPANCY SENSOR(S) VIA ADDITIONAL SWITCHPACK, OR BY DUAL POLE WALL MOUNTED OCCUPANCY SENSOR SHARED WITH LIGHTING CONTROLS. DEVICE SHALL BE UL LISTED FOR 277 VOLT LIGHTING AND 120 VOLT FAN CONNECTIONS.

Rated Wall Legend	
— SP	Non-rated smoke partition (Existing)
— SP	1 Hour Smoke Partition U.L. Design No. U906
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GENERAL NOTES

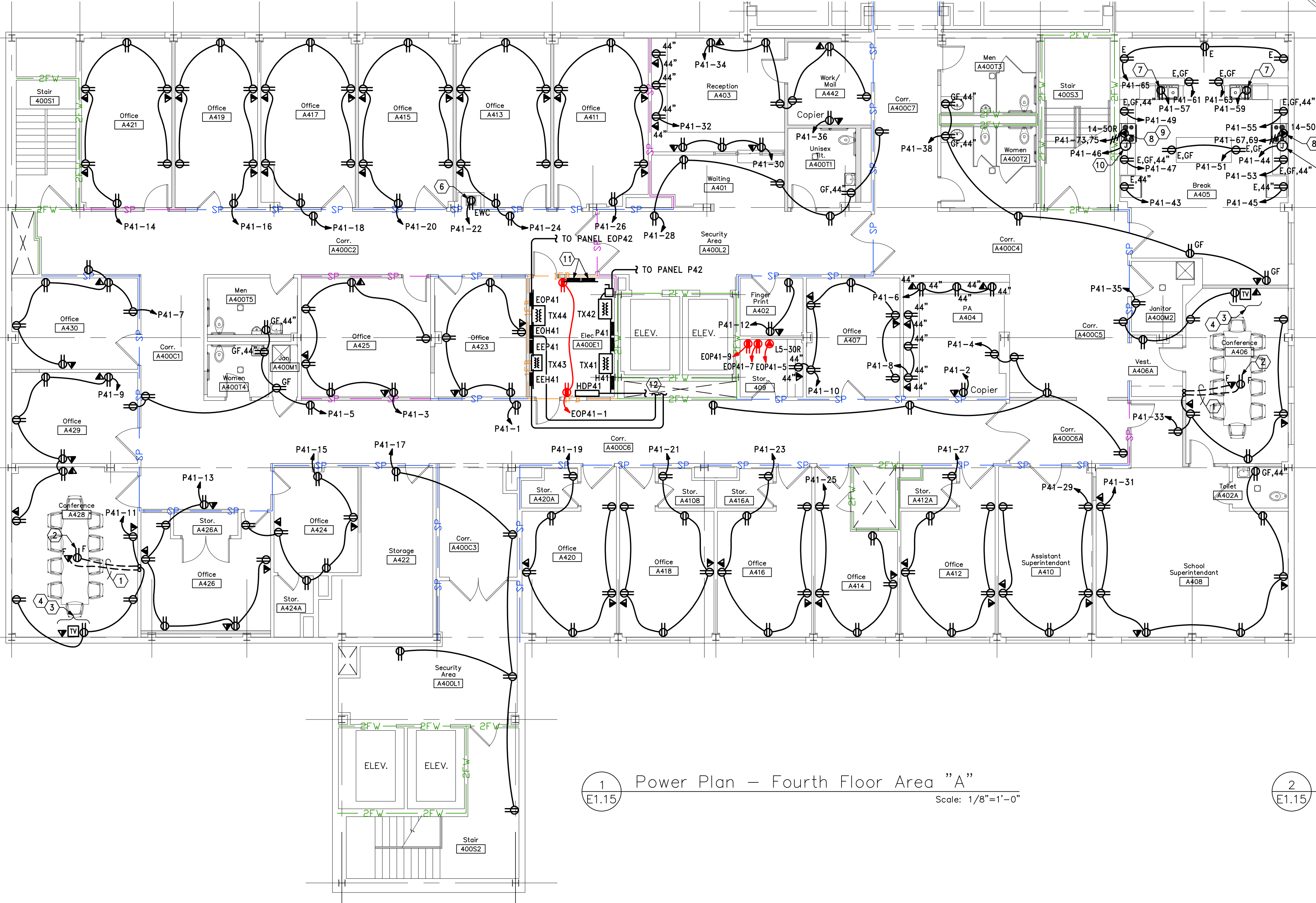
- EMERGENCY RESPONDER RADIO COVERAGE: INCLUDE FEE FOR TESTING THE BUILDING AS PART OF THE ELECTRICAL BID AND WORST CASE SCENARIO (FULL COVERAGE) PRICING AS A SEPARATE LINE ITEM. THE PRICING WILL BE ADJUSTED AFTER THE TEST RESULTS DETERMINE THE REQUIRED EQUIPMENT.
- COORDINATE CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- ALL DEVICES SHALL BE TAMPER RESISTANT PER NEC 406.12.
- ALL FIRE ALARM SYSTEM DEVICES SHALL BE FULLY COMPATIBLE WITH THE EXISTING NOTIFIER FIRE ALARM SYSTEM.
- ALL WIRING SHALL BE PLENUM RATED, OR INSTALLED IN CONDUIT.
- PROVIDE #2 AWG GROUND WIRE FROM THE MAIN SERVICE GROUNDING BUS TO THE TELEPHONE TERMINAL BOARD. PROVIDE 0.25" X 2" X 12" COPPER GROUNDING BUS BAR MOUNTED ON INSULATED STANDOFFS ANCHORED WITH STAINLESS STEEL BRACKETS EQUAL TO ERICO TGB-A12L06PT.
- PROVIDE CONDUIT SLEEVES ABOVE ALL DOORS TO ROOMS SHOWN WITH PHONE, DATA, TELEVISION, OR OTHER LOW VOLTAGE COMMUNICATIONS SYSTEMS. PROVIDE AS FOLLOWS:
 - 2 - 4" CONDUIT SLEEVES INTO THE IT/SERVER ROOMS AND IDF ROOMS.
 - 2 - 2" CONDUIT SLEEVES INTO OPEN OFFICE AREAS.
 - 2 - 1" CONDUIT SLEEVES INTO OFFICES, BREAK ROOMS, OR OTHER SPACES.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL STRING.
- PER NEC 210.8, ALL GROUND FAULT RECEPTACLES ARE TO BE IN A READILY ACCESSIBLE LOCATION. IF NOT, PROVIDE A GROUND FAULT CIRCUIT BREAKER IN THE PANEL, OR A DEAD FRONT GROUND FAULT DEVICE IN AN ACCESSIBLE LOCATION SERVING THE INACCESSIBLE DEVICE.
- COORDINATE ACTUAL MOUNTING LOCATIONS OF ALL EQUIPMENT WITH CONTRACTOR PROVIDING THE EQUIPMENT.
- PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT SUPPLIED BY OTHERS.

- PROVIDE NEMA 3R RATED SAFETY SWITCHES WHERE LOCATED OUTDOORS.
- PROVIDE MATCHING PLUG, PIGTAIL, AND CONNECTIONS TO EQUIPMENT FOR ALL SPECIAL PURPOSE RECEPTACLES.
- COORDINATE RECEPTACLE PLACEMENT WITH ARCHITECTURAL SECTIONS AND ELEVATIONS.

CODED NOTES

- PROVIDE UNDERSLAB CONDUITS TO FLOOR RECEPTACLE AND DATA JACK. PROVIDE A MINIMUM OF 1" CONDUIT FOR CONDUIT FOR EACH OF THE POWER AND LOW VOLTAGE WIRING CONDUITS.
- CONTRACTOR SHALL COORDINATE LOCATION OF FLOOR BOX / POKE-THRU WITH THE LOCATION OF THE CONFERENCE ROOM TABLE.
- PROVIDE WALL BOX AT 72" FOR A DUPLEX RECEPTACLE, TV JACK, AND DATA JACKS MOUNTED BEHIND THE WALL MOUNTED TELEVISION. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH OWNER PRIOR TO ROUGH-IN. PROVIDE 1" CONDUITS TO ABOVE CEILING FOR FUTURE LOW VOLTAGE WIRING.
- PROVIDE WALL BOX AT 18" FOR A DUPLEX RECEPTACLE AND DATA JACKS. PROVIDE 1" CONDUITS TO ABOVE CEILING FOR FUTURE LOW VOLTAGE WIRING. DEVICES SHALL BE CENTERED ON THE WALL AND LOCATED DIRECTLY BELOW WALL BOX IN CODED NOTE #3 ABOVE.
- LOCATE RECEPTACLES BEHIND THE WATER COOLER COVER AS DIRECTED BY THE EQUIPMENT MANUFACTURER. CIRCUIT SHALL BE GROUND FAULT PROTECTED.
- PROVIDE GFI RECEPTACLE UNDER THE SINK FOR THE DISHWASHER, PROVIDE 120 VOLT, 1" (NEMA 5-20) PIGTAIL ON THE DISHWASHER, ROUTED TO THE DISHWASHER RECEPTACLE.
- CIRCUIT FOR RANGE RECEPTACLE SHALL BE RUN THRU THE SUPPRESSION HOOD CONTROLS TO SHUNT TRIP THE POWER TO THE RANGE WHEN THE HOOD SUPPRESSION SYSTEM IS ACTIVE.
- RECEPTACLE SHALL BE GROUND FAULT PROTECTED, PROVIDE EXTERNAL IN-LINE GROUND FAULT PROTECTION ON CIRCUIT. COLEMAN CABLE HD-PRO HIGH POWER GFCI DEVICE OR EQUAL.
- PROVIDE POWER CONNECTION TO RESIDENTIAL HOOD SUPPRESSION HOOD. HOOD SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
- FIRE ALARM SYSTEM POWER SUPPLY AND VOICE EVACUATION PANEL POWER SUPPLY.
- PROVIDE CONDUITS IN CHASE DOWN TO SECOND FLOOR AND THEN BACK TO TO PENTHOUSE ELECTRICAL ROOM.

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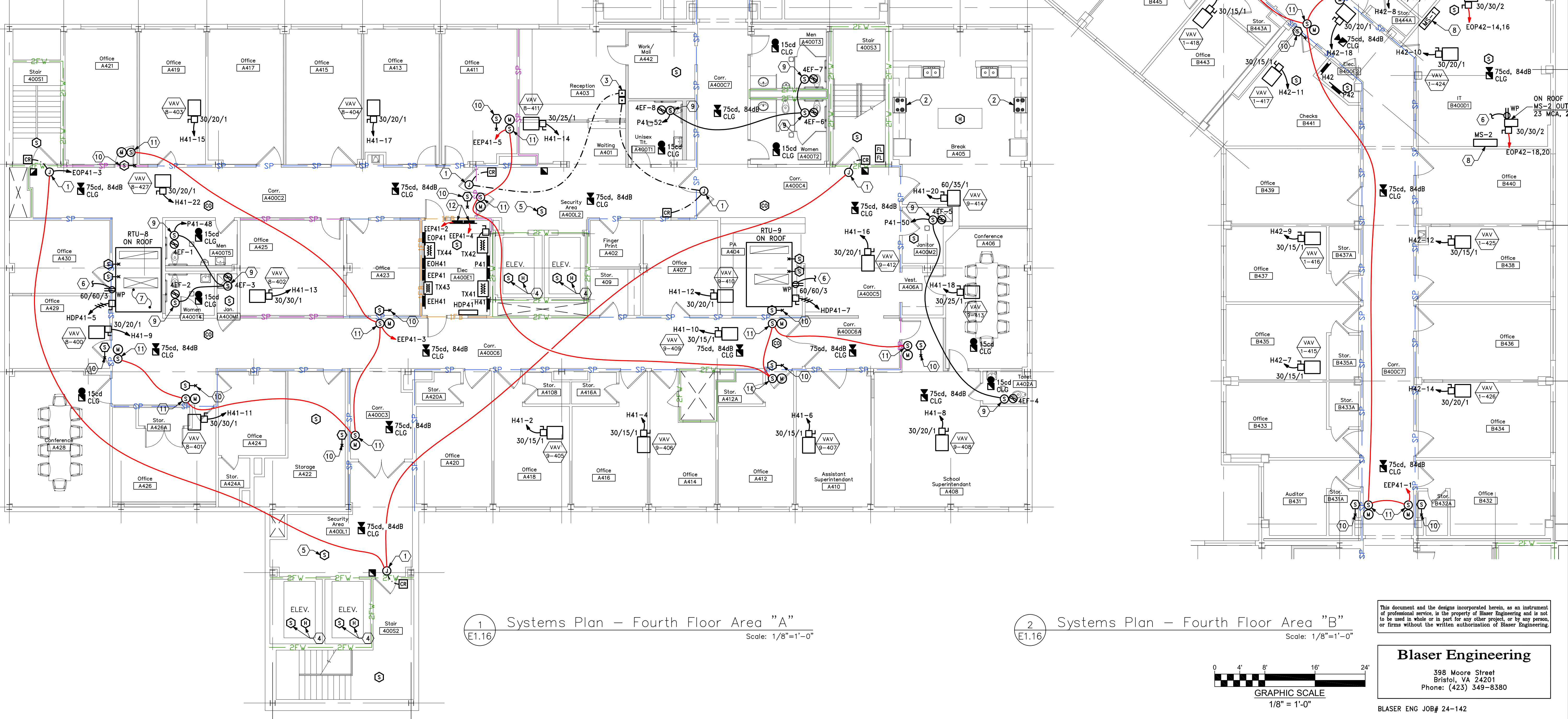
- EMERGENCY RESPONDER RADIO COVERAGE: INCLUDE FEE FOR TESTING THE BUILDING AS PART OF THE ELECTRICAL BID AND WORST CASE SCENARIO (FULL COVERAGE) PRICING AS A SEPARATE LINE ITEM. THE PRICING WILL BE ADJUSTED AFTER THE TEST RESULTS DETERMINE THE REQUIRED EQUIPMENT.
- COORDINATE CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- ALL DEVICES SHALL BE TAMPER RESISTANT PER NEC 406.12.
- ALL FIRE ALARM SYSTEM DEVICES SHALL BE FULLY COMPATIBLE WITH THE EXISTING NOTIFIER FIRE ALARM SYSTEM.
- ALL WIRING SHALL BE PLENUM RATED, OR INSTALLED IN CONDUIT.
- PROVIDE #2 AWG GROUND WIRE FROM THE MAIN SERVICE GROUNDING BUS TO THE TELEPHONE TERMINAL BOARD. PROVIDE 0.25" X 2" X 12" COPPER GROUNDING BUS BAR MOUNTED ON INSULATED STANDOFFS ANCHORED WITH STAINLESS STEEL BRACKETS EQUAL TO ERICO TGB-A12L06PT.
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- COORDINATE ACTUAL MOUNTING LOCATIONS OF ALL EQUIPMENT WITH CONTRACTOR PROVIDING THE EQUIPMENT.
- PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT SUPPLIED BY OTHERS.

- PROVIDE NEMA 3R RATED SAFETY SWITCHES WHERE LOCATED OUTDOORS.
- PROVIDE MATCHING PLUG, PIGTAIL, AND CONNECTIONS TO EQUIPMENT FOR ALL SPECIAL PURPOSE RECEPTACLES.
- COORDINATE RECEPTACLE PLACEMENT WITH ARCHITECTURAL SECTIONS AND ELEVATIONS.

CODED NOTES

- PROVIDE POWER CONNECTION TO DOOR SECURITY POWER SUPPLY. POWER SUPPLY SHALL INTERFACE WITH THE FIRE ALARM SYSTEM TO RELEASE THE DOOR UPON A FIRE ALARM. PROVIDE 3/4" CONDUIT AND WIRING FROM POWER SUPPLY THE CARD READER AND DOOR STRIKE.
- RESIDENTIAL HOOD SUPPRESSION HOOD. HOOD SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
- PROVIDE DOOR RELEASE PUSH-BUTTON AT THE RECEPTION DESK. TYPICAL OF 2.
- PROVIDE SMOKE AND HEAT DETECTORS IN THE TOP OF THE ELEVATOR SHAFT. DEVICES SHALL BE TIED INTO THE ELEVATOR CONTROLLER FOR ELEVATOR RECALL. SEE DETAIL.
- PROVIDE SMOKE DETECTOR TIED TO THE ELEVATOR RECALL SYSTEM. SEE DETAIL.
- TO NEAREST GENERAL RECEPTACLE CIRCUIT ON FOURTH FLOOR.
- FIELD COORDINATE EXACT LOCATION. SHIFTED SLIGHTLY ON THESE PLANS FOR CLARITY.
- INDOOR UNIT IS POWERED FROM THE OUTDOOR UNIT. PROVIDE LOCAL DISCONNECTING MEANS AT THE INDOOR UNIT, AND INTERCONNECTING WIRING TO THE OUTDOOR UNIT. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIER.
- EXHAUST FAN TO BE CONTROLLED BY ROOM OCCUPANCY SENSOR(S) VIA ADDITIONAL SWITCHPACK, OR BY DUAL POLE WALL MOUNTED OCCUPANCY SENSOR SHARED WITH LIGHTING CONTROLS. DEVICE SHALL BE UL LISTED FOR 277 VOLT LIGHTING AND 120 VOLT FAN CONNECTIONS. COORDINATE LOCATION OF ROOF OR WALL MOUNTED FAN WITH THE MECHANICAL CONTRACTOR.
- PROVIDE DUCT SMOKE DETECTOR TO CLOSE THE ASSOCIATED SMOKE DAMPER UPON DETECTION OF SMOKE. DUCT SMOKE DETECTOR SHALL BE LOCATED UPSTREAM OF THE DAMPER.
- PROVIDE 120V, 1Ø POWER CONNECTION TO SMOKE DAMPER. COORDINATE DAMPER VOLTAGE AND PROVIDE STEP DOWN TRANSFORMER AS REQUIRED. INTERFACE SMOKE DAMPER WITH THE FIRE ALARM SYSTEM. SMOKE DAMPER TO SHUTDOWN ON ALARM CONDITION.
- PROVIDE POWER TO FIRE ALARM SYSTEM POWER SUPPLY AND VOICE EVACUATION PANEL POWER SUPPLY.

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EQUIPMENT SCHEDULE													
Item No	Qty	Equipment Category	Manufacturer	Model Number	Equipment Remarks	Amps	KW	HP	Volts	Phase	Cycle	Direct	NEMA
01	1	Shelving, Plastic	Custom	Custom - Shelving, Plastic									
02	2	Table, Prep w/ Sink	John Boos & Co.	EP16R10-DL2B-96R									
03	1	Table, Work 16/300, 5" Backsplash, SS Shelf	John Boos & Co.	ST6R5-3096SSK									
04	1	EXHAUST HOOD	TBD	HOOD-15	16'-0" INCLUDING FIRE CABINET								
		SUPPLY FAN / MAU-1											
		EXHAUST FAN											
05	1	Oven-Steamer, Combination, Gas	CONVOTHERM USA	C4ET 6.20 GS-N	W/ EQUIPMENT STAND & WATER FILTER	7.5	0.5		120	1	60	X	
06	1	Range, Restaurant, Gas	Vulcan	36S-68-N		4.0			115	1	60	X	5-15P
07	1	Stand, Cooking Equipment, Refrigerated Base	Turbo Air	PRCBE-36R-N		3.0	0.3	1/4	115	1	60	X	5-15P
08	1	Griddle, Gas	Vulcan	MSA36									
09	1	Fryer, Deep Fat, Gas	Dean	2FPRG50T		8.0	1.0		120	1	60		
10	2	Table, Work 16/300, Flat Top, SS Shelf	John Boos & Co.	ST6-3060SSK									
11	1	Table, Work 16/300, Flat Top, SS Shelf	John Boos & Co.	ST6-3096SSK									
11.1	1	Rack, Pot & Pan, Boat Shape	John Boos & Co.	PRB04									
13	1	Refrigerator, Sandwich/Salad Prep	Defield	4460NP-24M		6.0	0.7	0.4	120	1	60	X	5-15P
14	2	Racks, Drying	Metro	PR48VX4									
15	1	Sink, 3 comp, 18/300, B-Series	John Boos & Co.	3B20304-2024									
15.1	1	Rack, Pot & Pan, Single Bar	John Boos & Co.	PRW14A									
16	2	Faucet, Wall Mount	T & S Brass	B-0231-CC									
17	1	Dishable, Straight, Soiled	John Boos & Co.	SDT4-S72SBK-L									
18	1	Pre-Rinse Faucet, Deck Mount	T & S Brass	B-0113-BC									
19	1	Warewasher, Door Type, High Temp	Hobart US Foodservice	AM16VL-BAS ELECTRIC	Single Point Conn	53.5			208	3	60	X	
20	1	Dishable, Straight, Clean	John Boos & Co.	CDT6-S60SBK-R									
21	1	Oven, High Speed (DOUBLE STACK)	Pratica	FORZA STI DOUBLE		30.0	5.6		208	1	60	X	6-30P
						30.0	5.6		208	1	60	X	6-30P
22	1	Table, Work 16/300, 5" Backsplash, SS Shelf	John Boos & Co.	ST6R5-3636SSK									
24		Refrigerator, Walk-In	Metro	CS39-DC		16.0	2.0		120	1	60	X	5-20P
25	1	Cabinet, Holding/Proofing	Metro	CS39-DC		16.0	2.0		120	1	60	X	5-20P
26	1	SERVING COUNTER	SERVTECH	SEV-14	13'-8" LENGTH								
27	1	Drop-In, Hot Wells	Defield	NR74S-D		15.0	3.0		208	1	60	X	
28	1	Sneeze Guard	Servtech	3W-CONV-47C									
29	1	Display Lights	Hatco	HL5-42		0.1			120	1	60	X	
30	1	Drop-In, Heated Shelf	Hatco	GRSFB-48-S		10.2	1.2		120	1	60	X	5-15P
31	1	Sneeze Guard	Servtech	48HS-CONV-51C									
32	1	Warmer, Food Overhead	Hatco	GR5AL-42		5.8	0.7		120	1	60	X	
33	1	Drop-In, Cold Pan	Defield	NR143BP		3.1		0.2	115	1	60	X	5-15P
34	1	Sneeze Guard	Servtech	3W-CONV-47C									
35	1	Display Lights	Hatco	HL5-42		0.1			120	1	60	X	
36	1	Merchandiser	Beverage-Air	VMHC-12-1-G		12.0			115	1	60	X	5-20P
37	1	CASHIER COUNTER	SERVTECH	CASH-4	4'-0" LENGTH								
38	1	Cash Register	BY OWNER	BY OWNER		2.0			120	1	60	X	5-20P
39	1	BEVERAGE COUNTER	SERVTECH	BEV-6									
40	1	Beverage Counter	Custom	11 ft 8 in									
40	1	Ice Maker w/o Bin	Ice-O-Matic	CM0530A		17.8			115	1	60	X	30A MOCF
40.1	1	Bin, Ice	Ice-O-Matic	B55PS									
42		Sink, Drop-In	John Boos & Co.	PRB04									
43		Pre-Rinse Faucet	T & S Brass	B-0113-BC									
44		Oven, Microwave	Transonic	NR160V									

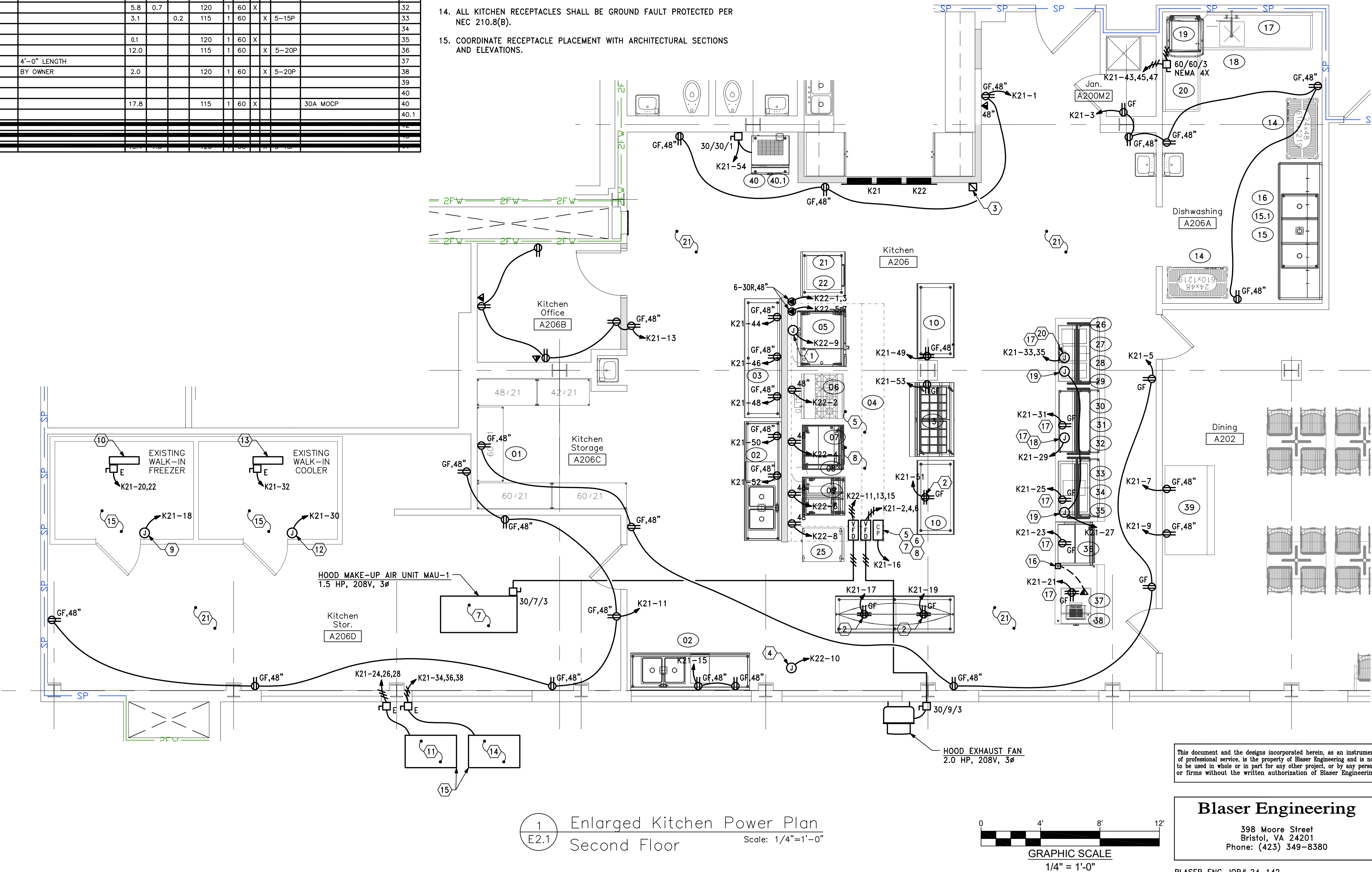
GENERAL NOTES

- COORDINATE CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- ALL DEVICES SHALL BE TAMPER RESISTANT PER 406.12.
- ALL FIRE ALARM SYSTEM DEVICES SHALL BE FULLY COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM.
- ALL LOW VOLTAGE WIRING SHALL BE SUPPORTED BY J-HOOKS, CABLE TRAY OR OTHER MEANS SECURELY FASTENED TO THE BUILDING STRUCTURE.
- ALL ABANDONED IN PLACE PHONE, DATA, AND OTHER LOW VOLTAGE WIRING IN THIS SPACE SHALL BE REMOVED PER NEC 725.25 AND NEC 800.25.
- PROVIDE CONDUIT SLEEVES ABOVE ALL DOORS TO ROOMS SHOWN WITH PHONE, DATA, TELEVISION, OR OTHER LOW VOLTAGE COMMUNICATIONS SYSTEMS. PROVIDE AS FOLLOWS:
 - 2 - 2" CONDUIT SLEEVES INTO THE KITCHEN.
 - 2 - 1" CONDUIT SLEEVES INTO OFFICES, BREAK ROOMS, OR OTHER SPACES.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL STRING.
- PER NEC 210.8, ALL GROUND FAULT RECEPTACLES ARE TO BE IN A READILY ACCESSIBLE LOCATION. IF NOT, PROVIDE A GROUND FAULT CIRCUIT BREAKER IN THE PANEL, OR A DEAD FRONT GROUND FAULT DEVICE IN AN ACCESSIBLE LOCATION SERVING THE INACCESSIBLE DEVICE.
- COORDINATE ACTUAL MOUNTING LOCATIONS OF ALL EQUIPMENT WITH CONTRACTOR PROVIDING THE EQUIPMENT.
- PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT SUPPLIED BY OTHERS.
- PROVIDE NEMA 3R RATED SAFETY SWITCHES WHERE LOCATED OUTDOORS.
- PROVIDE NEMA 4X RATED SAFETY SWITCHES WHERE LOCATED IN KITCHENS AND DISHWASHING AREAS.
- PROVIDE MATCHING PLUG, PIGTAIL, AND CONNECTIONS TO EQUIPMENT FOR ALL SPECIAL PURPOSE RECEPTACLES.
- ALL KITCHEN RECEPTACLES SHALL BE GROUND FAULT PROTECTED PER NEC 210.8(B).
- COORDINATE RECEPTACLE PLACEMENT WITH ARCHITECTURAL SECTIONS AND ELEVATIONS.

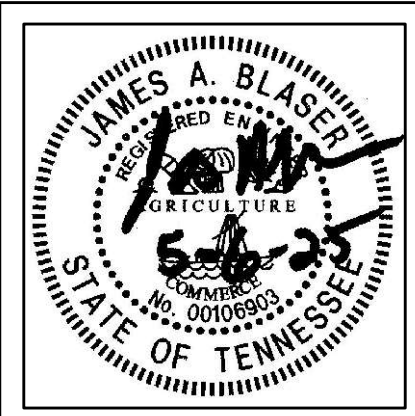
CODED NOTES

- PROVIDE POWER CONNECTION TO OVEN-STEAMER.
- PROVIDE CEILING HUNG DROP CORD WITH GROUND FAULT RECEPTACLE SUSPENDED ABOVE THE TABLE. COORDINATE HEIGHT ABOVE TABLE WITH THE OWNER. SEE CORD DROP DETAIL FOR ADDITIONAL INFORMATION.
- KITCHEN HOOD MANUAL PULL STATION/EMERGENCY SHUT-OFF. COORDINATE ACTUAL MOUNTING LOCATION WITH THE EQUIPMENT SUPPLIER.
- PROVIDE POWER CONNECTION TO GAS SOLENOID VALVE SERVING THE COOKING EQUIPMENT UNDER THE KITCHEN HOOD. SOLENOID VALVE SHALL SHUNT TRIP OFF WHEN HOOD SUPPRESSION ACTIVATES. COORDINATE ACTUAL MOUNTING LOCATION IN THE FIELD.
- CONTRACTOR SHALL PROVIDE POWER CONNECTION FROM THE CONTROL PANEL TO THE HOOD LIGHTING.
- HOOD SHALL BE MONITORED BY THE BUILDING FIRE ALARM SYSTEM FOR ALARM AND TROUBLE CONDITIONS.
- PROVIDE CONTROL SIGNAL FROM HOOD CONTROL PANEL TO THE MAKE-UP AIR UNIT. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIER.
- PROVIDE CONTROL WIRING FROM HOOD TEMPERATURE SENSORS TO THE HOOD CONTROL PANEL.
- PROVIDE POWER CONNECTION TO EXISTING FREEZER LIGHT AND DOOR HEATER.
- PROVIDE POWER CONNECTION TO EXISTING FREEZER EVAPORATOR COIL (208V, 1Ø).
- PROVIDE POWER CONNECTION TO EXISTING FREEZER CONDENSING UNIT ON ROOF (208V, 3Ø).
- PROVIDE POWER CONNECTION TO EXISTING COOLER LIGHT AND DOOR HEATER.

- PROVIDE POWER CONNECT TO EXISTING COOLER EVAPORATOR COIL (120V, 1Ø).
- PROVIDE POWER CONNECTION TO EXISTING COOLER CONDENSING UNIT ON ROOF (208V, 3Ø).
- FIELD VERIFY WHICH WALK-IN COOLER IS THE FREEZER OR COOLER. ADJUST CIRCUITS AS NECESSARY TO REFEED EQUIPMENT FROM ELECTRICAL PANELS.
- PROVIDE POWER POLE WITH POWER AND LOW VOLTAGE CHANNELS FOR POWER AND DATA CONNECTIONS TO THE CASH REGISTER AND SERVING LINE EQUIPMENT. SIZE POWER POLE TO ACCOMMODATE ALL CIRCUITS AS REQUIRED. PROVIDE SWITCH ON THE POWER POLE FOR CONTROLLING THE SERVING COUNTER LIGHTING.
- ROUTE BRANCH CIRCUIT THROUGH LIQUID TIGHT FLEXIBLE CONDUIT ALONG BOTTOM OF EQUIPMENT BACK TO THE POWER POLE AND ONTO THE ELECTRICAL PANEL.
- PROVIDE POWER CONNECTION TO OVERHEAD FOOD WARMER #32.
- PROVIDE POWER CONNECTION TO SERVING COUNTER LIGHTING #29 & #32. PROVIDE SWITCH TO CONTROL THE LIGHTING ON THE POWER POLE.
- PROVIDE POWER CONNECTION TO THE HOT FOOD WELLS #27 IN THE SERVING COUNTER.
- SEE SECOND FLOOR PLANS FOR FIRE ALARM AND LIGHTING REQUIREMENTS IN THIS AREA.



Revisions	Description	Date	No.



Renovations for
Greene County Government
Greenville, Tennessee

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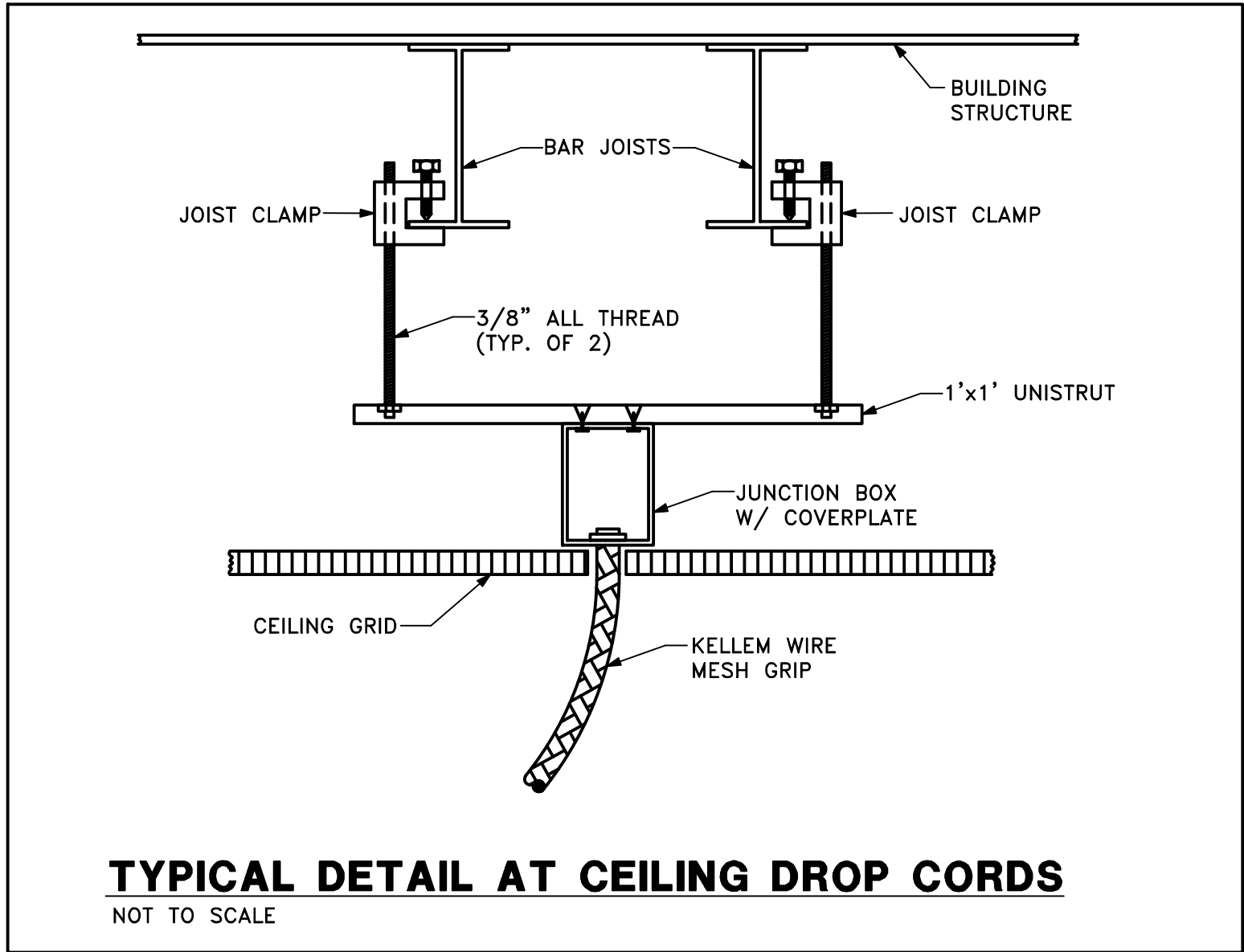
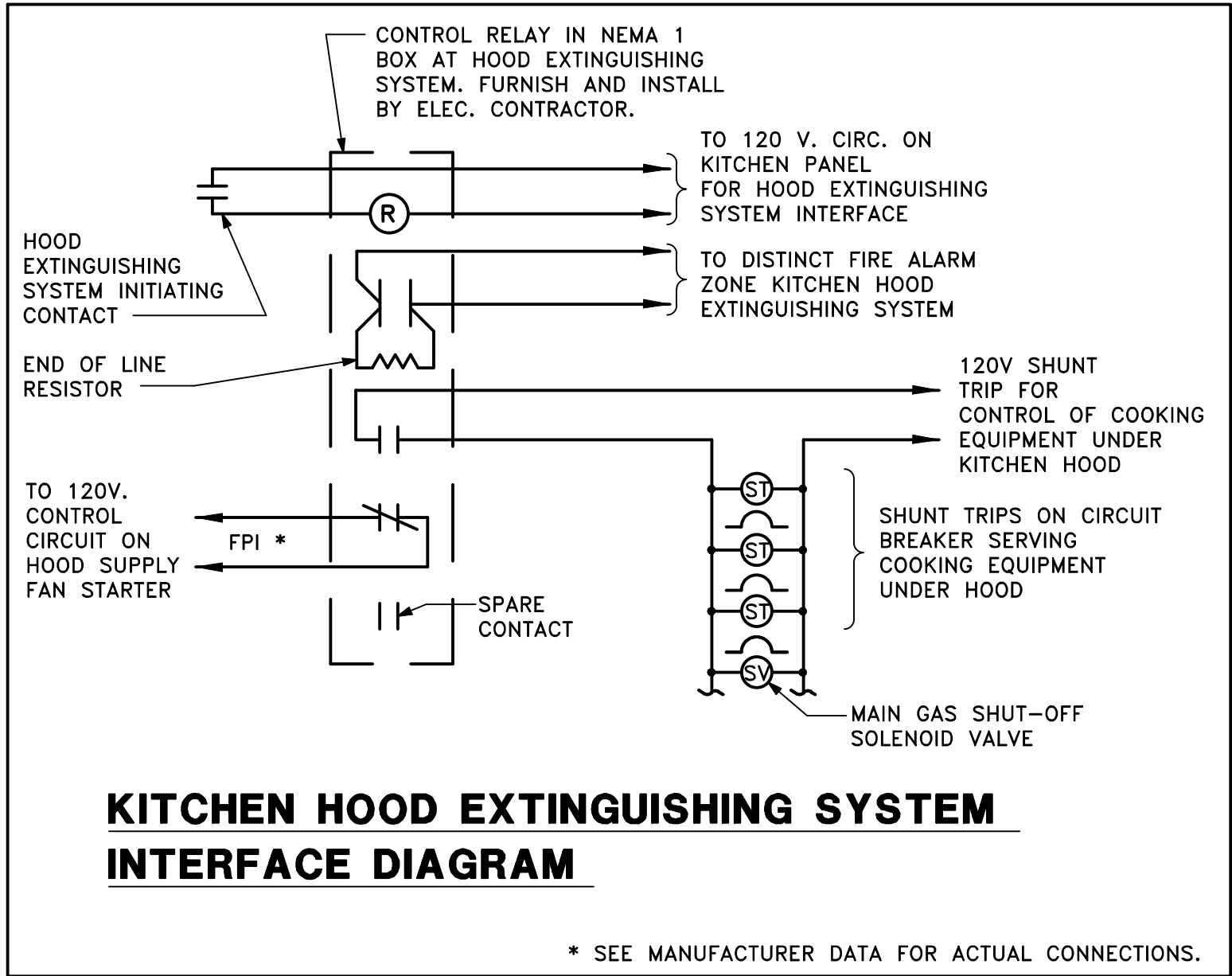
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Drawn: J. Blaser
Checked: J. Blaser
Job No: 21-160
Scale: as noted
Date: 05-06-2025
File Name: 24142 electrical
Drawing Title:
Enlarged Kitchen
Power Plan
Sheet No.
E2.1

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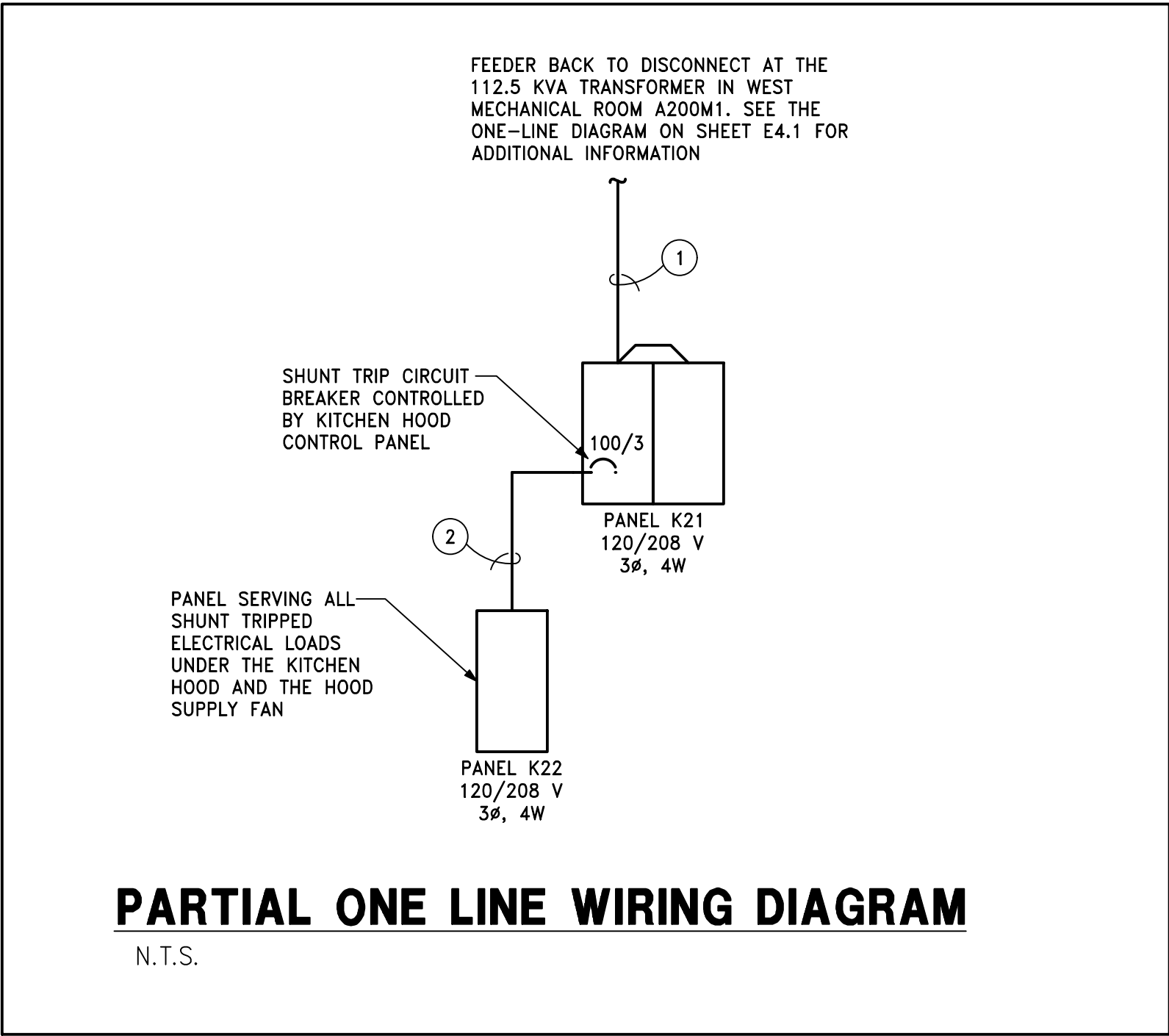
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BLASER ENG JOB# 24-142



PANEL ID:	K21	VOLTAGE:			120/208					
LOCATION:	KITCHEN A206	PHASE:			3					
MOUNTING:	FLUSH	WIRE:			4					
MAIN TYPE:	LUGS	MAIN SIZE:			400	AMPS MINIMUM AIC RATING: 22,000				
LEGEND:	PROVIDE PANEL WITH 4 - 3/4" SPARE CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING									
	PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)									
	GF: GROUND FAULT CIRCUIT INTERRUPTER									
	+: PROVIDE CIRCUIT WITH FULL SIZED NEUTRAL CONDUCTOR									
	**: SEE ONE LINE DIAGRAM									
	ST: SHUNT TRIP									
BE-JOB# 24-142										
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	RECEPTACLES	20/1	0.54	1 * 2	0.94	-	HOOD EXHAUST	12	12
12	12	RECEPTACLES	20/1	0.90	3 * 4	0.94	15/3	FAN	12	-
12	12	RECEPTACLES	20/1	0.90	5 * 6	0.94	-	-	12	-
12	12	TEA BREWER	20/1	1.50	7 * 8	8.80	-	KITCHEN EQUIP	**	**
12	12	COFFEE	20/1	1.50	9 * 10	5.03	100/3 ST	UNDER HOOD	**	**
12	12	RECEPTACLES	20/1	1.08	11 * 12	4.52	-	PANEL K22	**	**
12	12	RECEPTACLES	20/1	0.90	13 * 14	-	-	SHUNT TRIP OPERATOR	-	-
12	12	RECEPTACLES	20/1	0.36	15 * 16	0.60	15/1	HOOD LTG & CTRLS	12	12
12	12	RECEPTACLES	20/1	0.36	17 * 18	1.00	20/1	EX. FREEZER LIGHTING	12	12
12	12	RECEPTACLES	20/1	0.36	19 * 20	1.50	20/2	EX. FREEZER	12	12
12	12	POINT OF SALES #38	20/1	0.36	21 * 22	1.50	-	EVAPORATOR FAN	12	-
12	12	MERCHANDISER #36	20/1	1.44	23 * 24	1.80	-	EX. FREEZER	12	12
12	12	COLD PAN #33	20/1	0.37	25 * 26	1.80	20/3	CONDENSER	12	-
12	12	SERVING LTG #35 & #29	15/1	0.20	27 * 28	1.80	-	-	12	-
12	12	FOOD WARMER #32	20/1	0.70	29 * 30	1.00	20/1	EX. COOLER LTG	12	12
12	12	HEATED SHELF #30	20/1	1.20	31 * 32	1.50	20/1	EX. COOLER EVAP FAN	12	12
12	12	HOT WELLS #27	20/2	1.50	33 * 34	1.80	-	EX. COOLER	12	12
-	12	-	-	1.50	35 * 36	1.80	20/3	CONDENSER	12	-
-	-	SPARE	20/1	-	37 * 38	1.80	-	-	12	-
-	-	SPARE	20/1	-	39 * 40	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	41 * 42	-	20/1	SPARE	-	-
10	4	-	-	6.42	43 * 44	0.50	20/1	RECEPTACLES	12	12
-	4	WAREWASHER #19	60/3	6.42	45 * 46	0.50	20/1	RECEPTACLES	12	12
-	4	-	-	6.42	47 * 48	0.50	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	0.36	49 * 50	0.50	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	0.36	51 * 52	0.50	20/1	RECEPTACLES	12	12
12	12	SANDWICH REF. #13	20/1	0.72	53 * 54	1.90	30/1	ICE MACHINE	10	10
-	-	SPARE	20/1 GF	-	55 * 56	-	20/1	SPARE	-	-
-	-	SPARE	20/1 GF	-	57 * 58	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	59 * 60	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	61 * 62	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	63 * 64	-	20/1	SPARE	-	-
-	-	SPARE	30/2	-	65 * 66	-	20/2	SPARE	-	-
-	-	-	-	-	67 * 68	-	-	-	-	-
-	-	SPACE	-	-	69 * 70	-	-	SPACE	-	-
-	-	SPACE	-	-	71 * 72	-	-	SPACE	-	-
-	-	SPACE	-	-	73 * 74	-	-	SPACE	-	-
-	-	SPACE	-	-	75 * 76	-	-	SPACE	-	-
-	-	SPACE	-	-	77 * 78	-	-	SPACE	-	-
-	-	SPACE	-	-	79 * 80	-	-	SPACE	-	-
-	-	SPACE	-	-	81 * 82	-	-	SPACE	-	-
-	-	SPACE	-	-	83 * 84	-	-	SPACE	-	-
PANEL LOAD SUMMARY:				LIGHTING:	2.30	KVA	-	-	-	-
				RECEPT & MISC:	9.48	KVA	28.99	KVA PHASE A	-	-
				MOTORS:	32.21	KVA	24.27	KVA PHASE B	-	-
				FROM OTHER PANELS:	35.85	KVA	26.58	KVA PHASE C	-	-
				TOTAL:	79.84	KVA	-	-	-	-

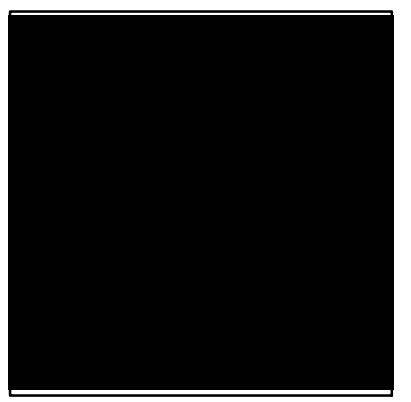
PANEL ID:		K22		VOLTAGE:		120/208				
LOCATION:		KITCHEN A206		PHASE:		3				
MOUNTING:		FLUSH		WIRE:		4				
MAIN TYPE:		LUGS		MAIN SIZE:		100 AMPS	MINIMUM AIC RATING: 22,000			
LEGEND:		PROVIDE PANEL WITH 4 - 3/4" SPARE CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING								
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)								
		GF: GROUND FAULT CIRCUIT INTERRUPTER								
BE-JOB# 24-142										
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
10	10	PIZZA OVEN #21	30/2 GF	2.80	1 * 2	0.48	20/1 GF	GAS RANGE #6	12	12
-	10	-	-	2.80	3 * 4	0.36	20/1 GF	REFRIG BASE #7	12	12
10	10	PIZZA OVEN #21	30/2 GF	2.80	5 * 6	1.00	20/1 GF	GAS FRYER #9	12	12
-	10	-	-	2.80	7 * 8	2.00	20/1 GF	HOLD CABINET #25	12	12
12	12	OVEN-STEAMER #5	20/1	0.90	9 * 10	0.25	15/1	GAS SOLENOID VALVE	12	12
12	12	MAU-1	-	0.72	11 * 12	-	20/1 GF	SPARE	-	-
-	12	HOOD SUPPLY FAN	15/3	0.72	13 * 14	-	20/1 GF	SPARE	-	-
-	12	-	-	0.72	15 * 16	-	-	SPACE	-	-
-	-	SPACE	-	-	17 * 18	-	-	SPACE	-	-
-	-	SPACE	-	-	19 * 20	-	-	SPACE	-	-
-	-	SPACE	-	-	21 * 22	-	-	SPACE	-	-
-	-	SPACE	-	-	23 * 24	-	-	SPACE	-	-
-	-	SPACE	-	-	25 * 26	-	-	SPACE	-	-
-	-	SPACE	-	-	27 * 28	-	-	SPACE	-	-
-	-	SPACE	-	-	29 * 30	-	-	SPACE	-	-
PANEL LOAD SUMMARY:				LIGHTING:	0.00 KVA					
				RECEPT & MISC:	1.25 KVA	8.80 KVA	KVA PHASE A			
				MOTORS:	3.90 KVA	5.03 KVA	KVA PHASE B			
				HEATING:	13.20 KVA	4.52 KVA	KVA PHASE C			
				TOTAL:	18.35 KVA					



FEEDER SCHEDULE							
NOTE NUMBER	FEEDER AMPS	NUMBER OF SETS	PHASE WIRES QUANTITY - SIZE	NEUTRAL WIRE QUANTITY - SIZE	GROUND SIZE	CONDUIT SIZE PER SET	COMMENTS/REMARKS
1	400	2	3 - #3/0	1 - #3/0	#3	2"	-
2	100	1	3 - #1	1 - #1	#8	1.5"	-

FEEDERS BASED ON COPPER CONDUCTORS; SUBSTITUTION OF CODE SIZED ALUMINUM CONDUCTORS FOR PANEL FEEDERS IS ALLOWED BASED ON FEEDER AMPS IN THE SCHEDULE

Revisions		Description	Date	No
No	By			



Renovations for
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Greenville, Tennessee

a. dave wright architect

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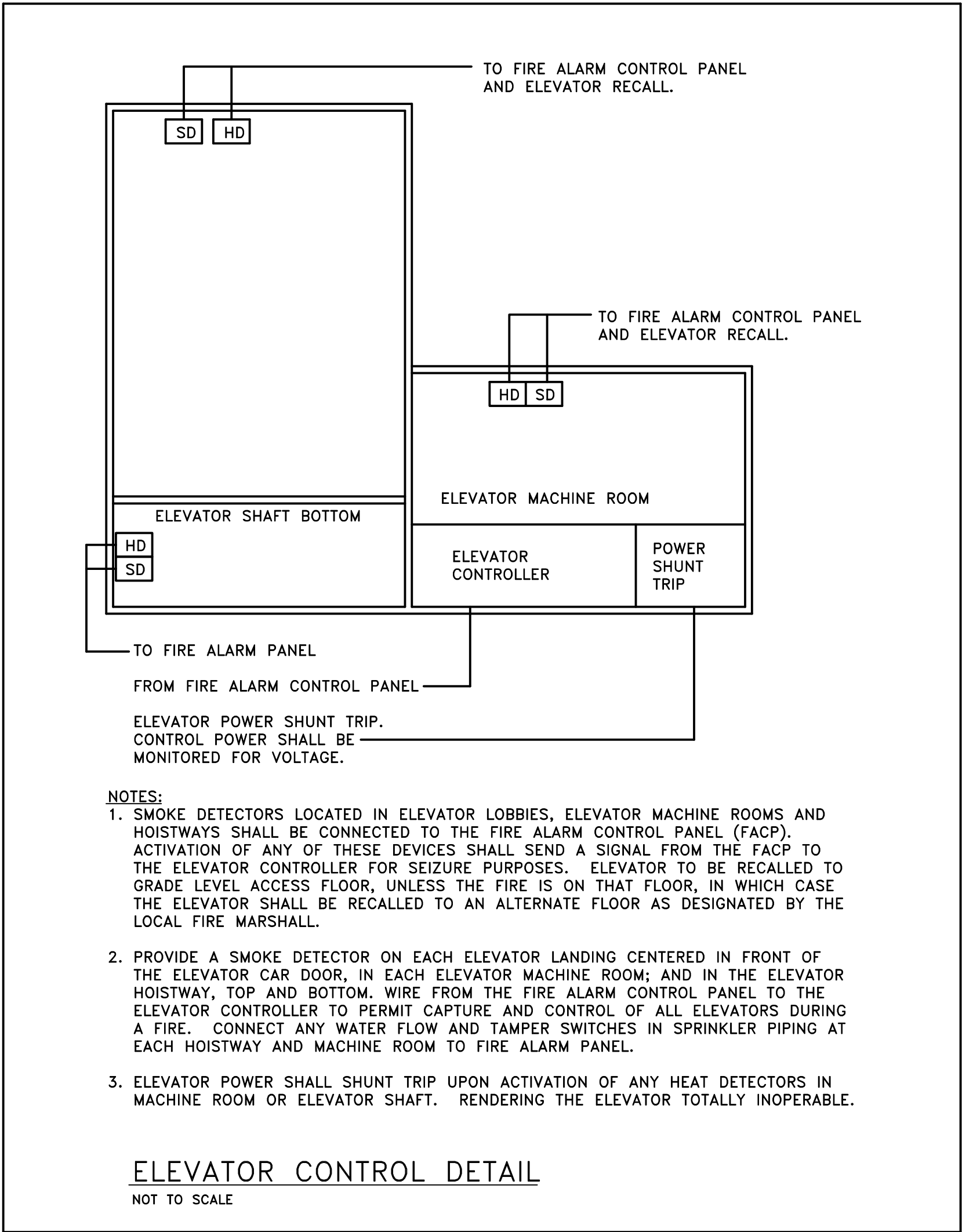
Drawn: J. Blaser
Checked: J. Blaser
Job No: 21-160
Scale: as noted
Date: 05-06-2025
File Name: 24142 electrical
Drawing Title: Kitchen Panel Schedules and Details
Sheet No: **E2.2**

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LIGHTING FIXTURE SCHEDULE				
NOTES:	FIXTURE NUMBER, LETTER PREFIX INDICATES TYPE OF MOUNTING AS FOLLOWS: C--CEILING MOUNTED; S--SUSPENDED; W--WALL MOUNTED; R--CEILING RECESSED; WR--WALL RECESSED; CV--COVE MOUNTED; U--UNDERCABINET; P--POST; G--GROUND MOUNTED; X--UNIVERSAL MOUNTED; T--TRACK.			
	ALL FIXTURES SHALL BE 80 CRI MINIMUM, UNLESS NOTED OTHERWISE. PARTIAL MODEL NUMBERS MAY BE SHOWN AND ARE INTENDED TO INDICATE ACCEPTABLE MANUFACTURER'S PRODUCT LINE. EXACT MODEL NUMBERS MEETING THE FIXTURE DESCRIPTION SHALL BE OBTAINED FROM MANUFACTURER'S AGENT. ALL FIXTURES MAY NOT BE USED. REFER TO PLANS FOR FIXTURE QUANTITIES. FIXTURE DIMENSIONS MAY VARY BETWEEN MANUFACTURERS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.			
	BE-JOB # 24-142			
FIXTURE NUMBER	FIXTURE DESCRIPTION	FIXTURE VOLTAGE	LAMP TYPE	APPROVED MANUFACTURERS
C13	13" X 3.5" X 49.5", LED IMPACT RESISTANT, LIGATURE RESISTANT FIXTURE, 14 GAUGE COLD ROLLED STEEL HOUSING AND BASE, PAINTED WHITE, CONTINUOUS WELD SEAMS,, 6 EXTERIOR MOUNTING HOLES WITH SECURITY BOLTS, DIFFUSED OR ACRYLIC LENS WITH 0.375" CLEAR POLYCARBONATE OUTER LENS, 80 CRI, 3500K, DIMMABLE LED DRIVER, 5 YEAR LIMITED WARRANTY, UL LISTING. FIXTURE: 45 WATTS, 4,938 LUMENS PROVIDE BLOCKING ABOVE CEILING TO SECURELY MOUNT FIXTURE.	MVOLT	LED W/FIXTURE	KENALL SSA-4-0/0-45L35K-DCC-DV-SYM/B-1 SERIES OR EQUAL
X14	12" x 8" x 2" , UNIVERSAL CANOPY MOUNT, SINGLE OR DOUBLE FACE LED EXIT SIGN, WHITE THERMOPLASTIC HOUSING, STENCIL FACE, RED LETTERS, DIRECTIONAL ARROWS AS SHOWN ON PLANS, AC ONLY, EMERGENCY POWER SUPPLIED BY GENERATOR. 5 YEAR LIMITED WARRANTY, UL LISTING. FIXTURE: 0.62 WATT	MVOLT	W/FIXTURE	LITHONIA LQM-SW3R-120/277 SERIES OR EQUAL
W15	8.1" x 11.1" x 3.2", LED WALL PACK DOWNLIGHT, FULL CUTOFF, CAST ALUMINUM HOUSING, DARK BRONZE FINISH, 4000K COLOR TEMP, 70 CRI, L90/100,000 LUMEN MAINTENANCE, 5 YEAR WARRANTY, WET LOCATION UL LISTING. FIXTURE: 25 WATTS, 2913 LUMENS	MVOLT	LED W/ FIXTURE	LITHONIA WPX1-LED-P2-40K-MVOLT SERIES OR EQUAL



LIGHTING FIXTURE SCHEDULE				
NOTES:	FIXTURE NUMBER, LETTER PREFIX INDICATES TYPE OF MOUNTING AS FOLLOWS: C--CEILING MOUNTED; S--SUSPENDED; W--WALL MOUNTED; R--CEILING RECESSED; WR--WALL RECESSED; CV--COVE MOUNTED; U--UNDERCABINET; P--POST; G--GROUND MOUNTED; X--UNIVERSAL MOUNTED; T--TRACK.			
	ALL FIXTURES SHALL BE 80 CRI MINIMUM, UNLESS NOTED OTHERWISE. PARTIAL MODEL NUMBERS MAY BE SHOWN AND ARE INTENDED TO INDICATE ACCEPTABLE MANUFACTURER'S PRODUCT LINE. EXACT MODEL NUMBERS MEETING THE FIXTURE DESCRIPTION SHALL BE OBTAINED FROM MANUFACTURER'S AGENT. ALL FIXTURES MAY NOT BE USED. REFER TO PLANS FOR FIXTURE QUANTITIES. FIXTURE DIMENSIONS MAY VARY BETWEEN MANUFACTURERS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.			
	BE-JOB # 24-142			
FIXTURE NUMBER	FIXTURE DESCRIPTION	FIXTURE VOLTAGE	LAMP TYPE	APPROVED MANUFACTURERS
R1	2X4 LOW PROFILE LED FLAT PANEL, ALUMINUM FRAME, SATIN WHITE LENS, GRID CLIPS, 7200 LUMENS, 3500K, 80 CRI LED SOURCE, L70/60,000 HOUR LUMEN MAINTENANCE FACTOR, 10% DIMMING WITH 0-10V CONTROLS, 5 YEAR WARRANTY, UL LISTING. FIXTURE: 58 WATTS, 7669 LUMENS	MVOLT	LED W/FIXTURE	LITHONIA CPX-2X4-7200LM-80CRI-35K-SWL SERIES COLUMBIA CBT24 SERIES OR EQUAL
R2	2X4 LOW PROFILE LED FLAT PANEL, ALUMINUM FRAME, SATIN WHITE LENS, GRID CLIPS, SWITCHABLE LUMEN OUTPUT SET AT 6050 LUMENS(HIGH), 3500K, 80 CRI LED SOURCE, L70/60,000 HOUR LUMEN MAINTENANCE FACTOR, 10% DIMMING WITH 0-10V CONTROLS, 5 YEAR WARRANTY, UL LISTING. FIXTURE: 51 WATTS, 6050 LUMENS	MVOLT	LED W/FIXTURE	LITHONIA CPX-2X4-AL08-SWW7-M2 SERIES COLUMBIA CBT24 SERIES OR EQUAL
R3	2X4 LOW PROFILE LED FLAT PANEL, ALUMINUM FRAME, SATIN WHITE LENS, GRID CLIPS, SWITCHABLE LUMEN OUTPUT SET AT 4679 LUMENS(MEDIUM), 3500K, 80 CRI LED SOURCE, L70/60,000 HOUR LUMEN MAINTENANCE FACTOR, 10% DIMMING WITH 0-10V CONTROLS, 5 YEAR WARRANTY, UL LISTING. FIXTURE: 37 WATTS, 4679 LUMENS	MVOLT	LED W/FIXTURE	LITHONIA CPX-2X4-AL08-SWW7-M2 SERIES COLUMBIA CBT24 SERIES OR EQUAL
R4	2X4 LOW PROFILE LED FLAT PANEL, ALUMINUM FRAME, SATIN WHITE LENS, GRID CLIPS, SWITCHABLE LUMEN OUTPUT SET AT 3813 LUMENS(LOW), 3500K, 80 CRI LED SOURCE, L70/60,000 HOUR LUMEN MAINTENANCE FACTOR, 10% DIMMING WITH 0-10V CONTROLS, 5 YEAR WARRANTY, UL LISTING. FIXTURE: 29 WATTS, 3813 LUMENS	MVOLT	LED W/FIXTURE	LITHONIA CPX-2X4-AL08-SWW7-M2 SERIES COLUMBIA CBT24 SERIES OR EQUAL
R5	2X2 LOW PROFILE LED FLAT PANEL, ALUMINUM FRAME, SATIN WHITE LENS, GRID CLIPS, SWITCHABLE LUMEN OUTPUT SET AT 4131 LUMENS(HIGH), 3500K, 80 CRI LED SOURCE, L70/60,000 HOUR LUMEN MAINTENANCE FACTOR, 10% DIMMING WITH 0-10V CONTROLS, 5 YEAR WARRANTY, UL LISTING. FIXTURE: 38 WATTS, 4131 LUMENS	MVOLT	LED W/FIXTURE	LITHONIA CPX-2X2-AL07-SWW7-M4 SERIES COLUMBIA CBT22 SERIES OR EQUAL
R6	2X2 LOW PROFILE LED FLAT PANEL, ALUMINUM FRAME, SATIN WHITE LENS, GRID CLIPS, SWITCHABLE LUMEN OUTPUT SET AT 3356 LUMENS(MEDIUM), 3500K, 80 CRI LED SOURCE, L70/60,000 HOUR LUMEN MAINTENANCE FACTOR, 10% DIMMING WITH 0-10V CONTROLS, 5 YEAR WARRANTY, UL LISTING. FIXTURE: 29 WATTS, 3356 LUMENS	MVOLT	LED W/FIXTURE	LITHONIA CPX-2X2-AL07-SWW7-M4 SERIES COLUMBIA CBT22 SERIES OR EQUAL
R7	2X2 LOW PROFILE LED FLAT PANEL, ALUMINUM FRAME, SATIN WHITE LENS, GRID CLIPS, SWITCHABLE LUMEN OUTPUT SET AT 2399 LUMENS(LOW), 3500K, 80 CRI LED SOURCE, L70/60,000 HOUR LUMEN MAINTENANCE FACTOR, 10% DIMMING WITH 0-10V CONTROLS, 5 YEAR WARRANTY, UL LISTING. FIXTURE: 20 WATTS, 4131 LUMENS	MVOLT	LED W/FIXTURE	LITHONIA CPX-2X2-AL07-SWW7-M4 SERIES COLUMBIA CBT22 SERIES OR EQUAL
R8	4" DIA, 4" DEEP, LED, CEILING RECESSED DOWNLIGHT, SELF-FLANGED CLEAR SEMI-SPECULAR REFLECTOR, MEDIUM DISTRIBUTION, 3500K COLOR TEMP, SWITCHABLE LUMEN OUTPUT SET AT 1000 LUMENS, 80 CRI, 10% DIMMING WITH 0-10V CONTROL, BAR HANGERS, PREWIRED HOUSING, 5 YEAR WARRANTY, UL LISTING. FIXTURE: 11 WATTS, 1031 LUMENS	MVOLT	LED W/FIXTURE	LITHONIA LDN4-AL01-SWW1-L04AR-LSS SERIES OR EQUAL
R9	4" DIA, 4" DEEP, LED, CEILING RECESSED DOWNLIGHT, SELF-FLANGED CLEAR SEMI-SPECULAR REFLECTOR, MEDIUM DISTRIBUTION, 3500K COLOR TEMP, SWITCHABLE LUMEN OUTPUT SET AT 750 LUMENS, 80 CRI, 10% DIMMING WITH 0-10V CONTROL, BAR HANGERS, PREWIRED HOUSING, 5 YEAR WARRANTY, UL LISTING. FIXTURE: 9 WATTS, 750 LUMENS	MVOLT	LED W/FIXTURE	LITHONIA LDN4-AL01-SWW1-L04AR-LSS SERIES OR EQUAL
R10	4" DIA, 7" DEEP, LED, CEILING RECESSED SHOWER DOWNLIGHT, FLUSH SMOOTH CLEAR LENS WITH PAINTED WHITE TRIM, 3500K COLOR TEMP, 843 LUMENS, 85CRI, IP66 RATED ON ROOM SIDE, BAR HANGERS, PREWIRED HOUSING, WET LOCATION LISTED, 5 YEAR WARRANTY. FIXTURE: 9 WATTS, 699 LUMENS	MVOLT	LED W/FIXTURE	GOTHAM EV04SH-35/10-DF-DMO SERIES OR EQUAL
S11	2.22" x 2.62" x 48", CHAIN HUNG LED STRIP LIGHT, STEEL HOUSING, DIFFUSE ACRYLIC LENS, WHITE FINISH SWITCHABLE LUMEN OUTPUT SET AT 5,000 LUMENS, 80 CRI, 3500K COLOR TEMP, 5 YEAR WARRANTY, UL LISTING. MOUNT AT 9' A.F.F. OR AS DIRECTED BY THE ARCHITECT. FIXTURE: 49 WATTS, 4856 LUMENS	MVOLT	LED W/FIXTURE	LITHONIA CSS-148-AL03-MVOLT SERIES COLUMBIA CSL4 SERIES OR EQUAL
C12	50" x 5" x 4", LED CEILING BRACKET, WHITE POWDER COAT STEEL HOUSING, IMPACT RESISTANT CRESCENT SHAPED LENS, COLOR TEMPERATURE 4000K, 4000 LUMENS, 82 CRI, L90/60,000 LUMEN MAINTENANCE FACTOR, LED DRIVER, INTEGRAL OCCUPANCY SENSOR, DIM TO 50% WHEN UNOCCUPIED, 5 YEAR WARRANTY, UL LISTING. FIXTURE: 40 WATTS 4325 LUMENS	MVOLT	LED W/FIXTURE	LITHONIA WL4-40L-LP840-DIM50 SERIES OR EQUAL
W12	SAME AS C12, WALL MOUNTED			

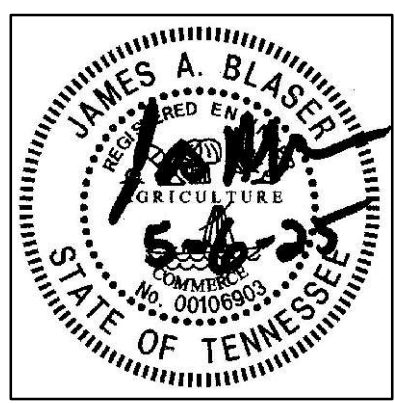
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Blaser Engineering

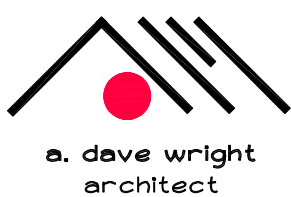
398 Moore Street
 Bristol, VA 24201
 Phone: (423) 349-8380

BLASER ENG JOB# 24-142

Revisions									
Description									
Date									
No.									



Renovations for
 Greene County Government
 Greeneville, Tennessee



110 S. Main Street
 Greeneville, TN. 37743

Phone: (423) 525-5093
 Fax: (423) 525-5095
 Cell: (423) 329-2876

Drawn:	J. Blaser
Checked:	J. Blaser
Job No:	21-160
Scale:	as noted
Date:	05-06-2025
File Name:	24142 electrical
Drawing Title:	Light Fixture Schedule

Sheet No.

E3.1

PANEL ID:		EEH41			VOLTAGE:		277/480			
LOCATION:		ELEC A400E1			PHASE:		3			
MOUNTING:		SURFACE			WIRE:		4			
MAIN TYPE:		LUGS			MAIN SIZE:		50	AMPS	MINIMUM AIC RATING:	14,000
LEGEND: LO: LOCK ON DEVICE										
PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)										
BE-JOB# 24-142										
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	LIGHTING	20/1	1.00	1 * 2	1.50	-	PANEL EEP41		
12	12	LIGHTING	20/1	0.83	3 4	1.50	25/3	VIA		-
		SPARE	20/1		5 * 6	0.50	-	TRANSFORMER TX43		-
		SPARE	20/1		7 * 8		20/1	SPARE		
		SPARE	20/1		9 * 10		20/1	SPARE		
		SPACE			11 * 12			SPACE		
		SPACE			13 * 14			SPACE		
		SPACE			15 * 16			SPACE		
		SPACE			17 * 18			SPACE		
		SPACE			19 * 20			SPACE		
		SPACE			21 * 22			SPACE		
		SPACE			23 * 24			SPACE		
		SPACE			25 * 26			SPACE		
		SPACE			27 * 28			SPACE		
		SPACE			29 * 30			SPACE		
PANEL LOAD SUMMARY:					LIGHTING:	1.83	KVA			
					RECEPT & MISC:	3.50	KVA	2.50	KVA PHASE A	
					MOTORS:	0.00	KVA	2.33	KVA PHASE B	
					HEATING:	0.00	KVA	0.50	KVA PHASE C	
					TOTAL:	5.33	KVA			

PANEL ID:		EEP21			VOLTAGE:		120/208			
LOCATION:		WEST MECH ROOM A200M1			PHASE:		3			
MOUNTING:		SURFACE			WIRE:		4			
MAIN TYPE:		BREAKER			MAIN SIZE:		50	AMPS	MINIMUM AIC RATING:	10,000
LEGEND:		LO: LOCK ON DEVICE								
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)								
		FA: FIRE ALARM IDENTIFICATION PER 760.121(B)								
BE-JOB# 24-142										
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
10	10	SMOKE DAMPERS	20/1	0.50	1 * 2	1.00	20/1 FA	FIRE ALM PWR SUPPLY	12	12
12	12	SMOKE DAMPERS	20/1	0.50	3 * 4	1.00	20/1 FA	VOICE PNL PWR SUPPLY	12	12
12	12	SMOKE DAMPERS	20/1	0.50	5 * 6	0.46	20/1	CLINIC EMG. LTG	12	12
		SPARE	20/1		7 * 8		20/1	SPARE		
		SPARE	20/1		9 * 10			SPACE		
		SPARE	20/1		11 * 12			SPACE		
		SPACE			13 * 14			SPACE		
		SPACE			15 * 16			SPACE		
		SPACE			17 * 18			SPACE		
		SPACE			19 * 20			SPACE		
		SPACE			21 * 22			SPACE		
		SPACE			23 * 24			SPACE		
		SPACE			25 * 26			SPACE		
		SPACE			27 * 28			SPACE		
		SPACE			29 * 30			SPACE		
PANEL LOAD SUMMARY:				LIGHTING:	0.46	KVA				
				RECEPT & MISC:	3.50	KVA	1.50	KVA PHASE A		
				MOTORS:	0.00	KVA	1.50	KVA PHASE B		
				HEATING:	0.00	KVA	0.96	KVA PHASE C		
				TOTAL:	3.96	KVA				

PANEL ID:		EEP31				VOLTAGE:		120/208			
LOCATION:		ELEC A300E1				PHASE:		3			
MOUNTING:		SURFACE				WIRE:		4			
MAIN TYPE:		BREAKER				MAIN SIZE:		50	AMPS	MINIMUM AIC RATING:	10,000
LEGEND:		LO: LOCK ON DEVICE									
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)									
		FA: FIRE ALARM IDENTIFICATION PER 760.121(B)									
BE-JOB# 24-142											
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE	
10	10	SMOKE DAMPERS	20/1	0.50	1 * 2	1.00	20/1 FA	FIRE ALM PWR SUPPLY	12	12	
12	12	SMOKE DAMPERS	20/1	0.50	3 * 4	1.00	20/1 FA	VOICE PNL PWR SUPPLY	12	12	
12	12	SMOKE DAMPERS	20/1	0.50	5 * 6		20/1	SPARE			
		SPARE	20/1		7 * 8		20/1	SPARE			
		SPARE	20/1		9 * 10			SPACE			
		SPACE			11 * 12			SPACE			
		SPACE			13 * 14			SPACE			
		SPACE			15 * 16			SPACE			
		SPACE			17 * 18			SPACE			
		SPACE			19 * 20			SPACE			
		SPACE			21 * 22			SPACE			
		SPACE			23 * 24			SPACE			
		SPACE			25 * 26			SPACE			
		SPACE			27 * 28			SPACE			
		SPACE			29 * 30			SPACE			
PANEL LOAD SUMMARY:				LIGHTING:	0.00	KVA					
				RECEPT & MISC:	3.50	KVA	1.50	KVA PHASE A			
				MOTORS:	0.00	KVA	1.50	KVA PHASE B			
				HEATING:	0.00	KVA	0.50	KVA PHASE C			
				TOTAL:	3.50	KVA					

PANEL ID:		EXISTING EEHDP			VOLTAGE:		277/480		EMG-ESSENTIAL		
LOCATION:		ELECT PENTHOUSE A200E1			PHASE:		3				
MOUNTING:		SURFACE			WIRE:		4				
MAIN TYPE:		LUGS			MAIN SIZE:		400		AMPS		MINIMUM AIC RATING: 42,000
LEGEND:		LO: LOCK ON DEVICE									
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)									
		**: SEE ONE LINE DIAGRAM									
BE-JOB# 24-142											
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE	
**	**	FIRST FLOOR	—	4.35	1 * 2	2.62	—	THIRD FLOOR	**	**	
—	**	PANEL	100/3	4.86	3 * 4	2.63	50/3	PANEL	**	—	
—	**	EEH11	—	2.79	5 * 6	0.50	—	EEH31	**	—	
**	**	SECOND FLOOR	—	2.30	7 * 8	2.50	—	FOURTH FLOOR	**	**	
—	**	PANEL	50/3	2.83	9 * 10	2.33	50/3	PANEL	**	—	
—	**	EEH21	—	2.48	11 * 12	0.50	—	EEH41	**	—	
12	12	PENTHOUSE LIGHTING	20/1	0.68	13 * 14	18.00	—	EXISTING	**	**	
2		SPARE	20/1		15 * 16	18.00	100/3 ST	ELEVATOR #3	**	—	
		SPARE	20/1		17 * 18	18.00	—	—	**	—	
		SPACE			19 * 20	18.00	—	EXISTING	**	**	
		SPACE			21 * 22	18.00	100/3 ST	ELEVATOR #4	**	—	
		SPACE			23 * 24	18.00	—	—	**	—	
		SPACE			25 * 26			SPACE			
		SPACE			27 * 28			SPACE			
		SPACE			29 * 30			SPACE			
		SPACE			31 * 32			SPACE			
		SPACE			33 * 34			SPACE			
		SPACE			35 * 36			SPACE			
		SPACE			37 * 38			SPACE			
		SPACE			39 * 40			SPACE			
		SPACE			41 * 42			SPACE			
PANEL LOAD SUMMARY:				LIGHTING:	0.68	KVA					
				FROM OTHER PANELS:	30.69	KVA	48.45	KVA PHASE A			
				MOTORS:	108.00	KVA	48.66	KVA PHASE B			
				HEATING:	0.00	KVA	42.27	KVA PHASE C			
				TOTAL:	139.37	KVA					

PANEL ID:		EEH21		VOLTAGE:		277/480					
LOCATION:		WEST MECH ROOM A200M1		PHASE:		3					
MOUNTING:		SURFACE		WIRE:		4					
MAIN TYPE:		LUGS		MAIN SIZE:		50		AMPS		MINIMUM AIC RATING:	14,000
LEGEND:		LO: LOCK ON DEVICE									
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)									
		**: SEE ONE LINE DIAGRAM									
BE-JOB# 24-142											
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE	
12	12	STAIRWELL LTG	20/1	0.80	1 * 2	1.50	-	PANEL EEP21	**	**	
12	12	LIGHTING	20/1	1.33	3 * 4	1.50	25/3	VIA	**	-	
12	12	LIGHTING	20/1	1.52	5 * 6	0.96	-	TRANSFORMER	**	-	
		SPARE	20/1		7 * 8		20/1	SPARE			
		SPARE	20/1		9 * 10		20/1	SPARE			
		SPARE	20/1		11 * 12		20/1	SPARE			
		SPACE			13 * 14			SPACE			
		SPACE			15 * 16			SPACE			
		SPACE			17 * 18			SPACE			
		SPACE			19 * 20			SPACE			
		SPACE			21 * 22			SPACE			
		SPACE			23 * 24			SPACE			
		SPACE			25 * 26			SPACE			
		SPACE			27 * 28			SPACE			
		SPACE			29 * 30			SPACE			
PANEL LOAD SUMMARY:				LIGHTING:	3.65	KVA					
				FROM OTHER PANELS:	3.96	KVA	2.30	KVA PHASE A			
				MOTORS:	0.00	KVA	2.83	KVA PHASE B			
				HEATING:	0.00	KVA	2.48	KVA PHASE C			
				TOTAL:	7.61	KVA					

PANEL ID:		EEH31		VOLTAGE:		277/480					
LOCATION:		ELEC A300E1		PHASE:		3					
MOUNTING:		SURFACE		WIRE:		4					
MAIN TYPE:		LUGS		MAIN SIZE:		50		AMPS		MINIMUM AIC RATING: 14,000	
LEGEND:		LO: LOCK ON DEVICE									
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)									
BE-JOB# 24-142											
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE	
12	12	LIGHTING	20/1	1.12	1 * 2	1.50	-	PANEL EEP31			
12	12	LIGHTING	20/1	1.13	3 * 4	1.50	25/3	VIA			-
		SPARE	20/1		5 * 6	0.50	-	TRANSFORMER			-
		SPARE	20/1		7 * 8		20/1	SPARE			
		SPARE	20/1		9 * 10		20/1	SPARE			
		SPARE	20/1		11 * 12		20/1	SPARE			
		SPACE			13 * 14			SPACE			
		SPACE			15 * 16			SPACE			
		SPACE			17 * 18			SPACE			
		SPACE			19 * 20			SPACE			
		SPACE			21 * 22			SPACE			
		SPACE			23 * 24			SPACE			
		SPACE			25 * 26			SPACE			
		SPACE			27 * 28			SPACE			
		SPACE			29 * 30			SPACE			
PANEL LOAD SUMMARY:					LIGHTING:	2.25	KVA				
					FROM OTHER PANELS:	3.50	KVA	2.62	KVA PHASE A		
					MOTORS:	0.00	KVA	2.63	KVA PHASE B		
					HEATING:	0.00	KVA	0.50	KVA PHASE C		
					TOTAL:	5.75	KVA				

PANEL ID: EOP23				VOLTAGE: 120/208						
LOCATION: ELEC 200E2				PHASE: 3						
MOUNTING: SURFACE				WIRE: 4						
MAIN TYPE: LUGS				MAIN SIZE: 50		AMPS	MINIMUM AIC RATING: 10,000			
LEGEND: LO: LOCK ON DEVICE										
PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)										
**: SEE ONE LINE DIAGRAM										
BE-JOB# 24-142										
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	RECEPTACLES	20/1	0.18	1 * 2		20/1	SPARE		
10	10	DOOR SECURITY	20/1	0.75	3 * 4		20/1	SPARE		
10	10	IT RECEPT/SERVER	30/1	2.50	5 * 6		20/1	SPARE		
12	12	IT RECEPT/SERVER	20/1	1.50	7 * 8			SPACE		
10	10	EXT. EMG LTG	20/1	0.50	9 * 10			SPACE		
		SPACE			11 * 12			SPACE		
		SPACE			13 * 14			SPACE		
		SPACE			15 * 16			SPACE		
		SPACE			17 * 18			SPACE		
		SPACE			19 * 20			SPACE		
		SPACE			21 * 22			SPACE		
		SPACE			23 * 24			SPACE		
		SPACE			25 * 26			SPACE		
		SPACE			27 * 28			SPACE		
		SPACE			29 * 30			SPACE		
PANEL LOAD SUMMARY:				LIGHTING:	0.50 KVA					
				FROM OTHER PANELS:	4.93 KVA	1.68		KVA PHASE A		
				MOTORS:	0.00 KVA	1.25		KVA PHASE B		
				HEATING:	0.00 KVA	2.50		KVA PHASE C		
				TOTAL:	5.43 KVA					

PANEL ID:		EOP31			VOLTAGE:		120/208				
LOCATION:		ELEC A300E1			PHASE:		3				
MOUNTING:		SURFACE			WIRE:		4				
MAIN TYPE:		BREAKER			MAIN SIZE:		200 AMPS		MINIMUM AIC RATING: 10,000		
LEGEND:		LO: LOCK ON DEVICE									
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)									
		GF: GROUND FAULT CIRCUIT INTERRUPTER									
		**: SEE ONE LINE DIAGRAM									
BE-JOB# 24-142											
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE	
10	10	RECEPTACLES	20/1	1.44	1 * 2	2.50	30/1	IT RECEPT/SERVER	10	10	
10	10	RECEPTACLES	20/1	1.44	3 * 4	1.50	20/1	IT RECEPT/SERVER	12	12	
10	10	RECEPTACLES	20/1	1.44	5 * 6	2.50	30/1	IT RECEPT/SERVER	10	10	
12	12	RECEPTACLES	20/1	1.44	7 * 8	1.50	20/1	IT RECEPT/SERVER	12	12	
12	12	RECEPTACLES	20/1	1.44	9 * 10	2.50	30/1	IT RECEPT/SERVER	10	10	
12	12	RECEPTACLES	20/1	1.44	11 * 12	1.50	20/1	IT RECEPT/SERVER	12	12	
12	12	RECEPTACLES	20/1	1.44	13 * 14	0.54	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.44	15 * 16	1.00	20/1 GF	REFRIGERATOR	12	12	
12	12	RECEPTACLES	20/1	1.08	17 * 18	0.18	20/1	BREAK RECEPT	12	12	
12	12	RECEPTACLES	20/1	1.08	19 * 20	0.18	20/1	BREAK RECEPT	12	12	
12	12	RECEPTACLES	20/1	1.44	21 * 22	1.06	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.44	23 * 24	1.26	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.44	25 * 26	1.08	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.08	27 * 28	1.08	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.26	29 * 30	1.08	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.26	31 * 32	1.08	20/1	RECEPTACLES	12	12	
		SPARE	20/1		33 * 34	1.08	20/1	RECEPTACLES	12	12	
		SPARE	20/1		35 * 36	1.08	20/1	RECEPTACLES	12	12	
		SPACE			37 * 38			SPACE			
		SPACE			39 * 40			SPACE			
		SPACE			41 * 42			SPACE			
12	12	RECEPTACLES	20/1	1.26	43 * 44	0.36	20/1	TEST BENCH	12	12	
12	12	RECEPTACLES	20/1	1.26	45 * 46	0.36	20/1	TEST BENCH	12	12	
12	12	RECEPTACLES	20/1	0.18	47 * 48	0.36	15/1	3EF-1,2,3	12	12	
12	12	REFRIGERATOR	20/1 GF	1.00	49 * 50	0.48	15/1	3EF-4,5,6,7	12	12	
10	10	RECEPTACLES	20/1	1.26	51 * 52	0.75	20/1	DOOR SECURITY	12	12	
10	10	RECEPTACLES	20/1	1.26	53 * 54	0.50	20/1	DOOR SECURITY	12	12	
10	10	RECEPTACLES	20/1	1.26	55 * 56		20/1	SPARE			
10	10	COPIER	20/1	1.50	57 * 58		20/1	SPARE			
12	12	RECEPTACLES	20/1	1.08	59 * 60		20/1	SPARE			
12	12	RECEPTACLES	20/1	0.90	61 * 62		20/1	SPARE			
12	12	RECEPTACLES	20/1	0.72	63 * 64		20/1	SPARE			
12	12	RECEPTACLES	20/1	1.44	65 * 66		20/1	SPARE			
12	12	RECEPTACLES	20/1	0.72	67 * 68		20/1	SPARE			
12	12	RECEPTACLES	20/1	0.90	69 * 70		20/1	SPARE			
12	12	COPIER	20/1	1.50	71 * 72		20/1	SPARE			
		SPACE			73 * 74			SPACE			
		SPACE			75 * 76			SPACE			
		SPACE			77 * 78			SPACE			
		SPACE			79 * 80			SPACE			
		SPACE			81 * 82			SPACE			
		SPACE			83 * 84			SPACE			
PANEL LOAD SUMMARY:				LIGHTING:	0.00						
				RECEPT & MISC:	60.51		20.96	KVA PHASE A			
				MOTORS:	2.84		21.81	KVA PHASE B			
				HEATING:	0.00		20.58	KVA PHASE C			
				TOTAL:	63.35 KVA						

PANEL ID:		EOH31		VOLTAGE:		277/480					
LOCATION:		ELEC. A300E1		PHASE:		3					
MOUNTING:		SURFACE		WIRE:		4					
MAIN TYPE:		BREAKER		MAIN SIZE:		200	AMPS	MINIMUM AIC RATING:		35,000	
LEGEND:		LO: LOCK ON DEVICE									
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)									
		**: SEE ONE LINE DIAGRAM									
BE-JOB# 24-142											
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE	
12	12	LIGHTING	20/1	2.03	1 * 2	20.96	-	PANEL EOP31	**	**	
12	12	LIGHTING	20/1	1.51	3 * 4	21.81	100/3	VIA	**	**	
12	12	LIGHTING	20/1	0.64	5 * 6	20.58	-	TRANSFORMER	**	**	
12	12	LIGHTING	20/1	1.57	7 * 8	13.32	-	PANEL EOP32	**	**	
12	12	LIGHTING	20/1	1.79	9 * 10	10.29	70/3	VIA	**	**	
12	12	LIGHTING	20/1	1.58	11 * 12	10.76	-	TRANSFORMER	**	**	
12	12	LIGHTING	20/1	1.36	13 * 14		20/1	SPARE			
		SPARE	20/1		15 * 16		20/1	SPARE			
		SPARE	20/1		17 * 18			SPACE			
		SPARE	20/1		19 * 20			SPACE			
		SPARE	20/1		21 * 22			SPACE			
		SPACE			23 * 24			SPACE			
		SPACE			25 * 26			SPACE			
		SPACE			27 * 28			SPACE			
		SPACE			29 * 30			SPACE			
PANEL LOAD SUMMARY:				LIGHTING:	10.48	KVA					
				FROM OTHER PANELS:	97.72	KVA	39.24	KVA PHASE A			
				MOTORS:	0.00	KVA	35.40	KVA PHASE B			
				HEATING:	0.00	KVA	33.55	KVA PHASE C			
				TOTAL CONNECTED LOAD:	108.20	KVA		DIVERSIFIED LOAD 72.0	KVA		

PANEL ID: EOH41				VOLTAGE: 277/480							
LOCATION: ELEC A400E1				PHASE: 3							
MOUNTING: SURFACE				WIRE: 4							
MAIN TYPE: LUGS				MAIN SIZE: 100		AMPS		MINIMUM AIC RATING: 14,000			
LEGEND: LO: LOCK ON DEVICE											
PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)											
**: SEE ONE LINE DIAGRAM											
BE-JOB# 24-142											
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE	
		SPARE	20/1		1 * 2	10.24	-	PANEL EOP41	**	**	
		SPARE	20/1		3 4	8.89	70/3	VIA	**	**	
		SPARE	20/1		5 * 6	9.03	-	TRANSFORMER	**	**	
		SPARE	20/1		7 * 8			SPACE			
		SPACE			9 * 10			SPACE			
		SPACE			11 * 12			SPACE			
		SPACE			13 * 14			SPACE			
		SPACE			15 * 16			SPACE			
		SPACE			17 * 18			SPACE			
		SPACE			19 * 20			SPACE			
		SPACE			21 * 22			SPACE			
		SPACE			23 * 24			SPACE			
		SPACE			25 * 26			SPACE			
		SPACE			27 * 28			SPACE			
		SPACE			29 * 30			SPACE			
PANEL LOAD SUMMARY:				LIGHTING:	0.00	KVA					
				RECEPT & MISC:	28.16	KVA	10.24	KVA PHASE A			
				MOTORS:	0.00	KVA	8.89	KVA PHASE B			
				HEATING:	0.00	KVA	9.03	KVA PHASE C			
				TOTAL:	28.16	KVA					

PANEL ID:		EOP22				VOLTAGE:		120/208							
LOCATION:		WEST MECH ROOM A200M1				PHASE:		3							
MOUNTING:		SURFACE				WIRE:		4							
MAIN TYPE:		BREAKER				MAIN SIZE:		100		AMPS		MINIMUM AIC RATING:		10,000	
LEGEND:		LO: LOCK ON DEVICE													
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)													
		**: SEE ONE LINE DIAGRAM													
BE-JOB# 24-142															
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION		CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION		WIRE SIZE	GND SIZE			
12	12	RECEPTACLES		20/1	0.36	1 * 2	1.68	-	-		**	**			
10	10	DOOR SECURITY		20/1	0.75	3 * 4	1.25	50/3	PANEL EOP23		**	**			
12	12	IT RECEPT/SERVER		20/1	1.50	5 * 6	2.50	-	-		**	**			
10	10	IT RECEPT/SERVER		30/1	2.50	7 * 8			SPACE						
		SPARE		20/1		9 * 10			SPACE						
		SPARE		20/1		11 * 12			SPACE						
		SPARE		20/1		13 * 14			SPACE						
		SPARE		20/1		15 * 16			SPACE						
		SPARE				17 * 18			SPACE						
		SPARE				19 * 20			SPACE						
		SPARE				21 * 22			SPACE						
		SPARE				23 * 24			SPACE						
		SPARE				25 * 26			SPACE						
		SPARE				27 * 28			SPACE						
		SPARE				29 * 30			SPACE						
PANEL LOAD SUMMARY:					LIGHTING:	0.00	KVA								
					FROM OTHER PANELS:	10.54	KVA	4.54	KVA PHASE A						
					MOTORS:	0.00	KVA	2.00	KVA PHASE B						
					HEATING:	0.00	KVA	4.00	KVA PHASE C						
					TOTAL:	10.54	KVA								

PANEL ID:		H22			VOLTAGE:		277/480							
LOCATION:		ELEC 200E2			PHASE:		3							
MOUNTING:		SURFACE			WIRE:		4							
MAIN TYPE:		LUGS			MAIN SIZE:		400		AMPS		MINIMUM AIC RATING:		35,000	
LEGEND:		LO: LOCK ON DEVICE												
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)												
		**: SEE ONE LINE DIAGRAM												
BE-JOB# 24-142														
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE				
12	12	LIGHTING	20/1	2.25	1 * 2	5.82	-	-	8	10				
12	12	LIGHTING	20/1	2.15	3 * 4	5.82	40/3	RETURN AIR	8	-				
12	12	LIGHTING	20/1	0.51	5 * 6	5.82	-	FAN	8	-				
12	12	VAV-1-201	20/1	4.00	7 * 8	5.50	25/1	VAV-1-209	10	10				
12	12	VAV-1-202	15/1	2.00	9 * 10	8.00	40/1	VAV-1-210	8	10				
12	12	VAV-1-203	15/1	2.50	11 * 12	8.00	40/1	VAV-1-211	8	10				
12	12	VAV-1-204	15/1	2.00	13 * 14	7.50	40/2	VAV-1-212	8	10				
10	8	VAV-1-205	40/1	8.00	15 * 16	7.50	-	-	8	-				
12	12	VAV-1-206	15/1	2.00	17 * 18	4.00	20/1	VAV-1-213	12	12				
10	8	VAV-1-207	40/1	8.00	19 * 20	5.00	25/1	VAV-1-214	10	10				
10	6	VAV-1-208	50/1	10.00	21 * 22	-	20/1	SPARE	-	-				
10	4	WATER HEATER	60/1	12.20	23 * 24	12.20	60/1	WATER HEATER	4	10				
		SPARE	40/1	-	25 * 26	-	20/1	SPARE	-	-				
		SPARE	30/1	-	27 * 28	-	20/1	SPARE	-	-				
		SPARE	30/1	-	29 * 30	-	20/1	SPARE	-	-				
		SPARE	15/1	-	31 * 32	-	20/1	SPARE	-	-				
		SPACE	-	-	33 * 34	-	-	SPACE	-	-				
		SPACE	-	-	35 * 36	-	-	SPACE	-	-				
		SPACE	-	-	37 * 38	-	-	SPACE	-	-				
		SPACE	-	-	39 * 40	-	-	SPACE	-	-				
		SPACE	-	-	41 * 42	-	-	SPACE	-	-				
PANEL LOAD SUMMARY:				LIGHTING:	4.91	KVA								
				RECEPT & MISC:	0.00	KVA	40.07	KVA PHASE A						
				MOTORS:	17.46	KVA	43.47	KVA PHASE B						
				HEATING:	108.40	KVA	47.23	KVA PHASE C						
				TOTAL:	130.77	KVA								

PANEL ID:	H31				VOLTAGE:		277/480				
LOCATION:	ELEC A300E1				PHASE:		3				
MOUNTING:	SURFACE				WIRE:		4				
MAIN TYPE:	BREAKER				MAIN SIZE:		200		AMPS	MINIMUM AIC RATING:	35,000
LEGEND:	LO: LOCK ON DEVICE										
	PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)										
	**: SEE ONE LINE DIAGRAM										
BE-JOB# 24-142											
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE	
12	12	VAV-7-300	15/1	2.50	1 * 2	5.00	25/1	VAV-7-310	10	10	
12	12	VAV-7-301	20/1	4.00	3 * * 4	4.00	20/1	VAV-7-311	12	12	
12	12	VAV-7-302	20/1	4.00	5 * 6	4.00	20/1	VAV-7-312	12	12	
		SPARE	20/1		7 * * 8	4.00	20/1	VAV-7-313	12	12	
12	12	VAV-7-304	15/1	3.00	9 * 10	4.00	20/1	VAV-7-314	12	12	
12	12	VAV-7-305	15/1	2.50	11 * 12	4.00	20/1	VAV-7-315	12	12	
12	12	VAV-7-306	15/1	2.50	13 * 14	4.00	20/1	VAV-7-316	12	12	
12	12	VAV-7-307	20/1	4.00	15 * 16	3.00	15/1	VAV-7-317	12	12	
12	12	VAV-7-308	15/1	2.50	17 * 18	4.00	20/1	VAV-7-318	12	12	
12	12	VAV-7-309	20/1	4.00	19 * 20	4.00	20/1	VAV-7-319	12	12	
		SPARE	40/1		21 * 22	4.00	20/1	VAV-7-336	12	12	
		SPARE	30/1		23 * 24		20/1	SPARE			
		SPARE	15/1		25 * 26		20/1	SPARE			
		SPACE			27 * * 28		20/1	SPARE			
		SPACE			29 * 30		20/1	SPARE			
		SPACE			31 * 32		20/1	SPARE			
		SPACE			33 * * 34			SPACE			
		SPACE			35 * 36			SPACE			
		SPACE			37 * 38	18.00	-	-	**	**	
		SPACE			39 * 40	18.00	100/3	PANEL H32	**	**	
		SPACE			41 * 42	18.00	-	-	**	**	
PANEL LOAD SUMMARY:				LIGHTING:	0.00	KVA					
				RECEPT & MISC:	0.00	KVA	44.00	KVA PHASE A			
				MOTORS:	0.00	KVA	44.00	KVA PHASE B			
				HEATING:	127.00	KVA	39.00	KVA PHASE C			
				TOTAL:	127.00	KVA					

PANEL ID:		EOP42		VOLTAGE:		120/208					
LOCATION:		IT B400D1		PHASE:		3					
MOUNTING:		SURFACE		WIRE:		4					
MAIN TYPE:		LUGS		MAIN SIZE:		125		AMPS		MINIMUM AIC RATING:	10,000
LEGEND:		LO: LOCK ON DEVICE									
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)									
BE-JOB# 24-142											
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE	
12	12	RECEPTACLES	20/1	0.18	1 * 2	2.50	30/1	IT RECEPT/SERVER	10	10	
12	12	IT RECEPTACLES	20/1	0.36	3 * 4	1.50	20/1	IT RECEPT/SERVER	12	12	
12	12	IT RECEPTACLES	20/1	0.36	5 * 6	2.50	30/1	IT RECEPT/SERVER	10	10	
12	12	IT RECEPTACLES	20/1	0.36	7 * 8	1.50	20/1	IT RECEPT/SERVER	12	12	
12	12	IT RECEPTACLES	20/1	0.36	9 * 10	2.50	30/1	IT RECEPT/SERVER	10	10	
10	10	DOOR SECURITY	20/1	0.25	11 * 12	1.50	20/1	IT RECEPT/SERVER	12	12	
		SPARE	30/1		13 * 14	1.92	30/2	MINI-SPLIT	10	10	
		SPARE	30/1		15 * 16	1.92	-	MS-1	10	-	
		SPARE	20/1		17 * 18	1.92	30/2	MINI-SPLIT	10	10	
		SPARE	20/1		19 * 20	1.92	-	MS-2	10	-	
		SPARE	20/1		21 * 22		30/2	SPARE			
		SPARE	20/1		23 * 24		-	-			
		SPARE	20/1		25 * 26			SPACE			
		SPARE	20/1		27 * 28			SPACE			
		SPACE			29 * 30			SPACE			
PANEL LOAD SUMMARY:				LIGHTING:	0.00	KVA					
				RECEPT & MISC:	13.87	KVA	8.38	KVA PHASE A			
				MOTORS:	7.68	KVA	6.64	KVA PHASE B			
				HEATING:	0.00	KVA	6.53	KVA PHASE C			
				TOTAL:	21.55	KVA					

PANEL ID:		H21		VOLTAGE:		277/480				
LOCATION:		WEST MECH RM A200M1		PHASE:		3				
MOUNTING:		SURFACE		WIRE:		4				
MAIN TYPE:		LUGS		MAIN SIZE:		400		AMPS		MINIMUM AIC RATING: 42,000
LEGEND:		LO: LOCK ON DEVICE								
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)								
		**: SEE ONE LINE DIAGRAM								
BE-JOB# 24-142										
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	LIGHTING	20/1	1.37	1 * 2	8.00	40/1	VAV-6-221	8	10
12	12	LIGHTING	20/1	1.42	3 * 4	10.00	50/1	VAV-6-222	6	10
12	12	LIGHTING	20/1	1.76	5 * 6	6.00	35/2	VAV-6-223	8	10
12	12	LIGHTING	20/1	1.22	7 * 8	6.00	-	-	8	-
12	12	LIGHTING	20/1	0.87	9 * 10	8.00	40/1	VAV-6-224	8	10
10	6	VAV-6-215	50/1	10.00	11 * 12	6.00	30/1	VAV-6-225	10	10
10	10	VAV-6-216	30/1	6.00	13 * 14	6.00	30/1	VAV-6-226	10	10
10	6	VAV-6-217	50/1	10.00	15 * 16	0.72	-	-	12	12
10	8	VAV-6-218	40/1	8.00	17 * 18	0.72	15/3	EX. MECH RM	12	-
10	8	VAV-6-219	40/1	8.00	19 * 20	0.72	-	EXHAUST FAN	12	-
10	6	VAV-6-220	50/1	10.00	21 * 22	12.20	60/1	WATER HEATER	4	10
		SPARE	40/1		23 * 24	12.20	60/1	WATER HEATER	4	10
		SPARE	30/1		25 * 26	4.66	-	EXISTING	10	10
		SPARE	15/1		27 * 28	4.66	30/3	CLINIC	10	-
		SPACE			29 * 30	4.66	-	RTU-2	10	-
		SPACE			31 * 32			SPACE		
		SPACE			33 * 34			SPACE		
		SPACE			35 * 36			SPACE		
		SPACE			37 * 38			SPACE		
		SPACE			39 * 40			SPACE		
		SPACE			41 * 42			SPACE		
PANEL LOAD SUMMARY:				LIGHTING:	6.63	KVA				
				RECEPT & MISC:	0.00	KVA	41.97	KVA PHASE A		
				MOTORS:	16.14	KVA	57.87	KVA PHASE B		
				HEATING:	126.40	KVA	49.34	KVA PHASE C		
				TOTAL:	149.17	KVA				

PANEL ID:		EOP32		VOLTAGE:		120/208				
LOCATION:		CORRIDOR B300C9		PHASE:		3				
MOUNTING:		FLUSH		WIRE:		4				
MAIN TYPE:		LUGS		MAIN SIZE:		150 AMPS	MINIMUM AIC RATING: 10,000			
LEGEND:		LO: LOCK ON DEVICE								
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)								
		PROVIDE PANEL WITH 4 - 3/4" SPARE CONDUITS STUBBED OUT ABOVE ACCESSIBLE CEILING								
		PROVIDE ALL CIRCUITS IN A SINGLE PANEL TUB								
BE-JOB# 24-142										
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	RECEPTACLES	20/1	1.44	1 * 2	1.08	20/1	RECEPTACLES	10	10
12	12	RECEPTACLES	20/1	1.44	3 * 4	1.26	20/1	RECEPTACLES	10	10
12	12	RECEPTACLES	20/1	1.44	5 * 6	1.08	20/1	RECEPTACLES	10	10
12	12	RECEPTACLES	20/1	1.44	7 * 8	1.08	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	1.06	9 * 10	1.00	20/1 GF	REFRIGERATOR	12	12
12	12	EVIDENCE DRYER	20/1	0.24	11 * 12	1.00	20/1 GF	REFRIGERATOR	12	12
12	12	RECEPTACLES	20/1	1.08	13 * 14	0.18	20/1	BREAK RECEPT	12	12
12	12	EQUIP RACK	20/1	0.36	15 * 16	0.18	20/1	BREAK RECEPT	12	12
12	12	RECEPTACLES	20/1	1.08	17 * 18	0.90	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	1.08	19 * 20	0.90	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	0.36	21 * 22	1.44	20/1	RECEPTACLES	12	12
10	10	COPIER	20/1	1.50	23 * 24	1.44	20/1	RECEPTACLES	12	12
10	10	RECEPTACLES	20/1	1.26	25 * 26	1.44	20/1	RECEPTACLES	12	12
10	10	VENDING	20/1 GF	0.50	27 * 28	1.44	20/1	RECEPTACLES	12	12
10	10	VENDING	20/1 GF	0.50	29 * 30	1.08	20/1	RECEPTACLES	12	12
10	10	RECEPTACLES	20/1	1.26	31 * 32	1.08	20/1	RECEPTACLES	12	12
10	10	PROJ & SCREEN	20/1	1.25	33 * 34		20/1	SPARE		
12	12	DOOR SECURITY	20/1	0.50	35 * 36		20/1	SPARE		
12	12	EF-8,9	15/1		37 * 38		20/1	SPARE		
12	12	EF-10,11,12	15/1		39 * 40		20/1	SPARE		
		SPARE	20/1		41 42		20/1	SPARE		
		SPARE	20/1		43 * 44		20/1	SPARE		
		SPARE	20/1		45 * 46		20/1	SPARE		
		SPARE	20/1		47 * 48		20/1	SPARE		
PANEL LOAD SUMMARY:				LIGHTING:	0.00	KVA				
				RECEPT & MISC:	31.88	KVA	13.32	KVA PHASE A		
				MOTORS:	2.25	KVA	10.29	KVA PHASE B		
				HEATING:	0.24	KVA	10.76	KVA PHASE C		
				TOTAL:	34.37	KVA				

PANEL ID:	HDP22	VOLTAGE:	277/480				
LOCATION:	ELEC 200E2	PHASE:	3				
MOUNTING:	SURFACE	WIRE:	4				
MAIN TYPE:	LUGS	MAIN SIZE:	600	AMPS	AIC RATING:	35,000	
LEGEND:	LO: LOCK ON DEVICE						
PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)							
BE-JOB# 24-142							
BRANCH CIRCUIT DESCRIPTION		CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION
PANEL H22		400/3	40.07 43.47 47.23	1 * * 2 *	35.20 35.20 35.20	200/3	EXISTING RTU-1 --
PANEL P22 VIA TRANSFORMER		100/3	17.60 17.95 16.25	* 3 * 4 *			200A SPACE
100A SPACE				* 5 * 6 *			100A SPACE
SPACE				* 7 * 8 *			SPACE
SPACE				* 9 * 10 *			SPACE
PANEL LOAD SUMMARY:			LIGHTING:	0.00	KVA		
			FROM OTHER PANELS:	182.57	KVA	92.87	KVA PHASE A
			MOTORS:	105.60	KVA	96.62	KVA PHASE B
			HEATING:	0.00	KVA	98.68	KVA PHASE C
			TOTAL:	288.17	KVA		

PANEL ID:	HDP41	VOLTAGE:		277/480			
LOCATION:	ELEC A400E1	PHASE:		3			
MOUNTING:	SURFACE	WIRE:		4			
MAIN TYPE:	LUGS	MAIN SIZE:		600	AMPS	AIC RATING:	35,000
LEGEND:	LO: LOCK ON DEVICE						
PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)							
BE-JOB# 24-142							
BRANCH CIRCUIT DESCRIPTION		CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION
PANEL H41	200/3	27.92	*	19.30	100/3		PANEL P41
		23.63	1 * 2	24.78			VIA
		22.96	*	18.34			TRANSFORMER TX41
PANEL H42	100/3	17.78	*	10.36	70/3		PANEL P42
		19.92	3 * 4	10.32			VIA
		13.98	*	8.46			TRANSFORMER TX42
RTU-8	60/3	9.10	*				100A SPACE
		9.10	5 * 6				
		9.10	*				
RTU-9	60/3	9.10	*				100A SPACE
		9.10	7 * 8				
		9.10	*				
SPACE			9 * 10				SPACE
			*				
PANEL LOAD SUMMARY:		LIGHTING:		0.00	KVA		
		FROM OTHER PANELS:		217.75	KVA	93.56	KVA PHASE A
		MOTORS:		54.60	KVA	96.85	KVA PHASE B
		HEATING:		0.00	KVA	81.94	KVA PHASE C
		TOTAL:		272.35	KVA		

PANEL ID:		H42		VOLTAGE:		277/480				
LOCATION:		ELEC B400E2		PHASE:		3				
MOUNTING:		SURFACE		WIRE:		4				
MAIN TYPE:		LUGS		MAIN SIZE:		100	AMPS	MINIMUM AIC RATING:	14,000	
LEGEND:		LO: LOCK ON DEVICE								
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)								
BE-JOB# 24-142										
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	LIGHTING	20/1	1.78	1 * 2	3.00	15/1	VAV-1-420	12	12
12	12	LIGHTING	20/1	1.92	3 * 4	3.00	15/1	VAV-1-421	12	12
12	12	LIGHTING	20/1	0.98	5 * 6	3.00	15/1	VAV-1-422	12	12
12	12	VAV-1-415	15/1	3.00	7 * 8	3.00	15/1	VAV-1-423	12	12
12	12	VAV-1-416	15/1	3.00	9 * 10	4.00	20/1	VAV-1-424	12	12
12	12	VAV-1-417	15/1	3.00	11 * 12	3.00	15/1	VAV-1-425	12	12
12	12	VAV-1-418	15/1	3.00	13 * 14	4.00	20/1	VAV-1-426	12	12
12	12	VAV-1-419	20/1	4.00	15 * 16	4.00	20/1	VAV-1-427	12	12
		SPARE	40/1	17 * 18	4.00	20/1		VAV-1-428	12	12
		SPARE	30/1	19 * 20		20/1		SPARE		
		SPARE	15/1	21 * 22		20/1		SPARE		
		SPARE	20/1	23 * 24		20/1		SPARE		
		SPACE		25 * 26		20/1		SPARE		
		SPACE		27 * 28		20/1		SPARE		
		SPACE		29 * 30		20/1		SPARE		
		SPACE		31 * 32				SPACE		
		SPACE		33 * 34				SPACE		
		SPACE		35 * 36				SPACE		
		SPACE		37 * 38				SPACE		
		SPACE		39 * 40				SPACE		
		SPACE		41 * 42				SPACE		
PANEL LOAD SUMMARY:				LIGHTING:	4.68	KVA				
				RECEPT & MISC:	0.00	KVA	17.78	KVA PHASE A		
				MOTORS:	0.00	KVA	19.92	KVA PHASE B		
				HEATING:	47.00	KVA	13.98	KVA PHASE C		
				TOTAL:	51.68	KVA				

PANEL ID:	HDP21	VOLTAGE:		277/480			
LOCATION:	WEST MECH RM A200M1	PHASE:		3			
MOUNTING:	SURFACE	WIRE:		4			
MAIN TYPE:	LUGS	MAIN SIZE:		1200	AMPS	AIC RATING:	42000
LEGEND:	LO: LOCK ON DEVICE						
PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)							
BE-JOB# 24-142							
BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	
PANEL HDP22	600/3	92.87	*	14.98	100/3	PANEL P21	
		96.62	1 * 2	14.61		VIA	
		98.68	*	14.50		TRANSFORMER	
PANEL H21	400/3	41.97	*	28.99	175/3	PANEL K21	
		57.87	3 * 4	24.27		VIA	
		49.34	*	26.58		TRANSFORMER	
SPARE	200/3		*	15.00	100/3	EX. CLINIC	
			* 6	15.00		PANEL "A" VIA	
			*	15.00		TRANSFORMER	
100A SPACE			*				
			* 8			100A SPACE	
			*				
SPACE			*				
			* 10			SPACE	
			*				
PANEL LOAD SUMMARY:		LIGHTING:	0.00	KVA			
		FROM OTHER PANELS:	606.27	KVA	193.81	KVA PHASE A	
		MOTORS:	0.00	KVA	208.37	KVA PHASE B	
		HEATING:	0.00	KVA	204.09	KVA PHASE C	
		TOTAL:	606.27	KVA			

PANEL ID:		H32		VOLTAGE:		277/480				
LOCATION:		CORRIDOR B300C9		PHASE:		3				
MOUNTING:		FLUSH		WIRE:		4				
MAIN TYPE:		LUGS		MAIN SIZE:		100		AMPS		MINIMUM AIC RATING: 14,000
LEGEND:		LO: LOCK ON DEVICE PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)								
BE-JOB# 24-142										
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	VAV-1-320	20/1	4.00	1 * 2	3.00	15/1	VAV-1-329	12	12
12	12	VAV-1-321	20/1	4.00	3 * 4	3.00	15/1	VAV-1-330	12	12
12	12	VAV-1-322	20/1	4.00	5 * 6	3.00	15/1	VAV-1-331	12	12
		SPARE	20/1		7 * 8	4.00	20/1	VAV-1-332	12	12
12	12	VAV-1-324	20/1	4.00	9 * 10	4.00	20/1	VAV-1-333	12	12
12	12	VAV-1-325	20/1	4.00	11 * 12	4.00	20/1	VAV-1-334	12	12
12	12	VAV-1-326	15/1	3.00	13 * 14	4.00	20/1	VAV-1-335	12	12
12	12	VAV-1-327	15/1	3.00	15 * 16		20/1	SPARE		
12	12	VAV-1-328	15/1	3.00	17 * 18		20/1	SPARE		
		SPARE	40/1	19 * 20		20/1		SPARE		
		SPARE	30/1	21 * 22		20/1		SPARE		
		SPARE	15/1	23 * 24		20/1		SPARE		
		SPACE		25 * 26				SPACE		
		SPACE		27 * 28				SPACE		
		SPACE		29 * 30				SPACE		
		SPACE		31 * 32				SPACE		
		SPACE		33 * 34				SPACE		
		SPACE		35 * 36				SPACE		
		SPACE		37 * 38				SPACE		
		SPACE		39 * 40				SPACE		
		SPACE		41 * 42				SPACE		
PANEL LOAD SUMMARY:				LIGHTING:	0.00	KVA				
				RECEPT & MISC:	0.00	KVA	18.00	KVA PHASE A		
				MOTORS:	0.00	KVA	18.00	KVA PHASE B		
				HEATING:	54.00	KVA	18.00	KVA PHASE C		
				TOTAL:	54.00	KVA				

PANEL ID:		H41		VOLTAGE:		277/480				
LOCATION:		ELEC A400E1		PHASE:		3				
MOUNTING:		SURFACE		WIRE:		4				
MAIN TYPE:		LUGS		MAIN SIZE:		20		AMPS		MINIMUM AIC RATING: 35,000
LEGEND:		LO: LOCK ON DEVICE								
		PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)								
BE-JOB# 24-142										
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	LIGHTING	20/1	1.22	1 * 2	3.00	15/1	VAV-9-405	12	12
12	12	LIGHTING	20/1	1.63	3 * 4	3.00	15/1	VAV-9-406	12	12
12	12	LIGHTING	20/1	0.96	5 * 6	3.00	15/1	VAV-9-407	12	12
12	12	LIGHTING	20/1	1.70	7 * 8	4.00	20/1	VAV-9-408	12	12
12	12	VAV-8-400	20/1	4.00	9 * 10	3.00	15/1	VAV-9-409	12	12
10	10	VAV-8-401	30/1	6.00	11 * 12	4.00	20/1	VAV-9-410	12	12
10	10	VAV-8-402	30/1	6.00	13 * 14	5.00	25/1	VAV-8-411	10	10
12	12	VAV-8-403	20/1	4.00	15 * 16	4.00	20/1	VAV-9-412	12	12
12	12	VAV-8-404	20/1	4.00	17 * 18	5.00	25/1	VAV-9-413	10	10
		SPARE	40/1	19 * 20	7.00	35/1		VAV-9-414	8	10
		SPARE	30/1	21 * 22	4.00	20/1		VAV-8-427	12	12
		SPARE	15/1	23 * 24		20/1		SPARE		
		SPARE		25 * 26		20/1		SPARE		
		SPACE		27 * 28		20/1		SPARE		
		SPACE		29 * 30		20/1		SPARE		
		SPACE		31 * 32		20/1		SPARE		
		SPACE		33 * 34		20/1		SPARE		
		SPACE		35 * 36		20/1		SPARE		
		SPACE		37 * 38				SPACE		
		SPACE		39 * 40				SPACE		
		SPACE		41 * 42				SPACE		
PANEL LOAD SUMMARY:				LIGHTING:	5.51	KVA				
				RECEPT & MISC:	0.00	KVA	27.92	KVA PHASE A		
				MOTORS:	0.00	KVA	23.63	KVA PHASE B		
				HEATING:	69.00	KVA	22.96	KVA PHASE C		
				TOTAL:	74.51	KVA				

KITCHEN PANEL SCHEDULES K21 AND K22 ARE LOCATED WITH THE ENLARGED KITCHEN PLAN SEE SHEET E2.2

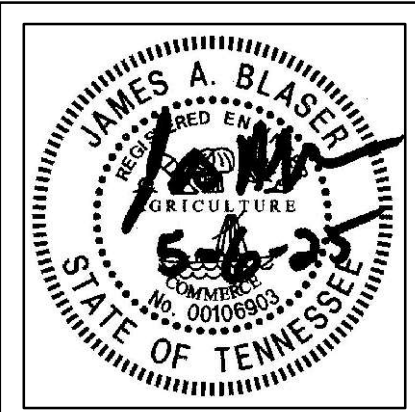
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PANEL ID:		P41		VOLTAGE:		120/208					
LOCATION:		ELEC A400E1		PHASE:		3					
MOUNTING:		SURFACE		WIRE:		4					
MAIN TYPE:		BREAKER		MAIN SIZE:		200	AMPS	MINIMUM AIC RATING:		10,000	
LEGEND:		LO: LOCK ON DEVICE									
PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)											
+ : PROVIDE CIRCUIT WITH FULL SIZED NEUTRAL CONDUCTOR											
ST: SHUNT TRIP											
BE-JOB# 24-142											
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE	
12	12	RECEPTACLES	20/1	1.08	1 * 2	1.50	20/1	COPIER	12	12	
12	12	RECEPTACLES	20/1	1.08	3 * 4	1.08	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.08	5 * 6	0.54	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.08	7 * 8	0.54	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.08	9 * 10	1.08	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.08	11 * 12	0.36	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.08	13 * 14	1.08	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.08	15 * 16	1.08	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	0.90	17 * 18	1.26	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.08	19 * 20	1.08	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.08	21 * 22	1.00	20/1 GF	EWG	12	12	
12	12	RECEPTACLES	20/1	1.08	23 * 24	1.26	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	0.90	25 * 26	1.08	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	1.08	27 * 28	1.08	20/1	RECEPTACLES	12	12	
12	12	RECEPTACLES	20/1	0.90	29 * 30	0.54	20/1	RECEPTACLES	12	12	
10	10	RECEPTACLES	20/1	1.08	31 * 32	0.54	20/1	RECEPTACLES	12	12	
10	10	RECEPTACLES	20/1	1.08	33 * 34	1.08	20/1	RECEPTACLES	12	12	
10	10	RECEPTACLES	20/1	1.08	35 * 36	1.50	20/1	COPIER	12	12	
		SPARE	20/1	37 * 38	0.90	20/1	20/1	RECEPTACLES	10	10	
		SPARE	20/1	39 * 40		20/1	20/1	SPARE			
		SPARE	20/1	41 * 42		20/1	20/1	SPARE			
10	10	REFRIGERATOR	20/1 GF	1.00	43 * 44	0.50	20/1	SUPPRESSION HOOD	12	12	
10	10	REFRIGERATOR	20/1 GF	1.00	45 * 46	0.50	20/1	SUPPRESSION HOOD	12	12	
10	10	RECEPTACLES	20/1	0.18	47 * 48	0.36	15/1	4EF-1,2,3	12	12	
10	10	RECEPTACLES	20/1	0.18	49 * 50	0.24	15/1	4EF-4,5	12	12	
10	10	RECEPTACLES	20/1	0.36	51 * 52	0.36	15/1	4EF-6,7,8	12	12	
10	10	RECEPTACLES	20/1	0.18	53 * 54		20/1	SPARE			
10	10	RECEPTACLES	20/1	0.18	55 * 56		20/1	SPARE			
10	10	DISHWASHER	20/1	1.50	57 * 58		20/1	SPARE			
10	10	DISHWASHER	20/1	1.50	59 * 60		20/1	SPARE			
10	10	RECEPTACLES	20/1	0.18	61 * 62		20/1	SPARE			
10	10	RECEPTACLES	20/1	0.18	63 * 64		20/1	SPARE			
10	10	RECEPTACLES	20/1	0.54	65 * 66		20/1	SPARE			
10	6	ELECTRIC RANGE	50/2 + ST	4.00	67 * 68		20/1	SPARE			
-	6	-	-	4.00	69 * 70		20/1	SPARE			
-	-	SHUNT TRIP OPERATOR	-	-	71 * 72		20/1	SPARE			
		SPARE	20/1	-	73 * 74		20/1	SPARE			
10	6	ELECTRIC RANGE	50/2 + ST	4.00	75 * 76		20/1	SPARE			
-	6	-	-	4.00	77 * 78		20/1	SPARE			
-	-	SHUNT TRIP OPERATOR	-	-	79 * 80						
		SPARE	20/1	-	81 * 82						
		SPARE	20/1	-	83 * 84						
PANEL LOAD SUMMARY:				LIGHTING:	0.00	KVA					
				RECEPT & MISC:	39.46	KVA	19.30	KVA PHASE A			
				MOTORS:	4.96	KVA	24.78	KVA PHASE B			
				HEATING:	18.00	KVA	18.34	KVA PHASE C			
				TOTAL:	62.42	KVA					

PANEL ID:	P22	VOLTAGE:			120/208					
LOCATION:	ELEC 200E2	PHASE:			3					
MOUNTING:	SURFACE	WIRE:			4					
MAIN TYPE:	BREAKER	MAIN SIZE:			200 AMPS	MINIMUM AIC RATING:	10,000			
LEGEND:	LO: LOCK ON DEVICE									
PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)										
ALL RECEPTACLE CIRCUITS ARE BY THE OWNER										
BE-JOB# 24-142										
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
		RECEPTACLES	20/1	1.00	1 * 2	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	3 * 4	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	5 * 6	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	7 * 8	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	9 * 10	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	11 * 12	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	13 * 14	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	15 * 16	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	17 * 18	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	19 * 20	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	21 * 22	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	23 * 24	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	25 * 26	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	27 * 28	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	29 * 30	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	31 * 32	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	33 * 34	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	35 * 36	1.00	20/1	RECEPTACLES		
		SPARE	20/1		37 * 38		20/1	SPARE		
		SPARE	20/1		39 * 40		20/1	SPARE		
		SPARE	20/1		41 * 42		20/1	SPARE		
		RECEPTACLES	20/1	1.00	43 * 44	0.35	20/1	2EF-8,9,10	12	12
		RECEPTACLES	20/1	1.00	45 * 46	0.70	20/1	2EF-11	12	12
		RECEPTACLES	20/1	1.00	47 * 48	0.25	15/1	RECIRC PUMP 2ND	12	12
		RECEPTACLES	20/1	1.00	49 * 50	0.25	15/1	RECIRC PUMP 3RD	12	12
		RECEPTACLES	20/1	1.00	51 * 52	0.25	15/1	RECIRC PUMP 4TH	12	12
		RECEPTACLES	20/1	1.00	53 * 54		20/1	SPARE		
		RECEPTACLES	20/1	1.00	55 * 56		20/1	SPARE		
		RECEPTACLES	20/1	1.00	57 * 58		20/1	SPARE		
		RECEPTACLES	20/1	1.00	59 * 60		20/1	SPARE		
		RECEPTACLES	20/1	1.00	61 * 62		20/1	SPARE		
		RECEPTACLES	20/1	1.00	63 * 64		20/1	SPARE		
		RECEPTACLES	20/1	1.00	65 * 66		20/1	SPARE		
		RECEPTACLES	20/1	1.00	67 * 68		20/1	SPARE		
		RECEPTACLES	20/1	1.00	69 * 70		20/1	SPARE		
		SPARE	20/1		71 * 72		20/1	SPARE		
		SPARE	20/1		73 * 74			SPACE		
		SPARE	20/1		75 * 76			SPACE		
		SPARE	20/1		77 * 78			SPACE		
		SPACE			79 * 80			SPACE		
		SPACE			81 * 82			SPACE		
		SPACE			83 * 84			SPACE		
PANEL LOAD SUMMARY:				LIGHTING:	0.00	KVA				
				RECEPT & MISC:	50.00	KVA	17.60	KVA PHASE A		
				MOTORS:	1.80	KVA	17.95	KVA PHASE B		
				HEATING:	0.00	KVA	16.25	KVA PHASE C		
				TOTAL:	51.80	KVA				

PANEL ID:	P21	VOLTAGE:	120/208							
LOCATION:	WEST MECH RM A200M1	PHASE:	3							
MOUNTING:	SURFACE	WIRE:	4							
MAIN TYPE:	BREAKER	MAIN SIZE:	200 AMPS	MINIMUM AIC RATING:	10,000					
LEGEND:	LO: LOCK ON DEVICE									
PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)										
ALL RECEPTACLE CIRCUITS ARE BY THE OWNER										
BE-JOB# 24-142										
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
		RECEPTACLES	20/1	1.00	1 2	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	3 4	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	5 6	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	7 8	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	9 10	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	11 12	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	13 14	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	15 16	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	17 18	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	19 20	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	21 22	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	23 24	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	25 26	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	27 28	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	29 30	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	31 32	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	33 34	1.00	20/1	RECEPTACLES		
		RECEPTACLES	20/1	1.00	35 36	1.00	20/1	RECEPTACLES		
		SPARE	20/1		37 38		20/1	SPARE		
		SPARE	20/1		39 40		20/1	SPARE		
		SPARE	20/1		41 42		20/1	SPARE		
		RECEPTACLES	20/1	1.00	43 44	0.48	20/1	2EF-1,2,3	10	10
		RECEPTACLES	20/1	1.00	45 46	0.36	20/1	2EF-4,5,6	10	10
		RECEPTACLES	20/1	1.00	47 48	0.25	15/1	RECIRC PUMP 1ST	12	12
		RECEPTACLES	20/1	1.00	49 50	0.25	15/1	RECIRC PUMP 2ND	12	12
		RECEPTACLES	20/1	1.00	51 52	0.25	15/1	RECIRC PUMP 3RD	12	12
		RECEPTACLES	20/1	1.00	53 54	0.25	15/1	RECIRC PUMP 4TH	12	12
		SPARE	20/1		55 56	0.25	15/1	RECIRC PUMP 4TH	12	12
		SPARE	20/1		57 58		20/1	SPARE		
		SPARE	20/1		59 60		20/1	SPARE		
		SPARE	20/1		61 62		20/1	SPARE		
		SPARE	20/1		63 64		20/1	SPARE		
		SPARE	20/1		65 66		20/1	SPARE		
		SPARE	20/1		67 68		20/1	SPARE		
		SPARE	20/1		69 70		20/1	SPARE		
		SPACE			71 72			SPACE		
		SPACE			73 74			SPACE		
		SPACE			75 76			SPACE		
		SPACE			77 78			SPACE		
		SPACE			79 80			SPACE		
		SPACE			81 82			SPACE		
		SPACE			83 84			SPACE		
PANEL LOAD SUMMARY:				LIGHTING:	0.00	KVA				
				RECEPT & MISC:	42.00	KVA	14.98	KVA PHASE A		
				MOTORS:	2.09	KVA	14.61	KVA PHASE B		
				HEATING:	0.00	KVA	14.50	KVA PHASE C		
				TOTAL:	44.09	KVA				

PANEL ID:	P42	VOLTAGE:	120/208							
LOCATION:	ELEC B400E2	PHASE:	3							
MOUNTING:	SURFACE	WIRE:	4							
MAIN TYPE:	LUGS	MAIN SIZE:	150 AMPS	MINIMUM AIC RATING:	10,000					
LEGEND:	LO: LOCK ON DEVICE									
	PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION DEVICE (SPD)									
	GF: GROUND FAULT CIRCUIT INTERRUPTER									
BE-JOB# 24-142										
GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER	LOAD KVA	CIRCUIT NUMBER	LOAD KVA	CIRCUIT BREAKER	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
10	10	RECEPTACLES	20/1	1.26	1 * 2	1.08	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	1.08	3 * 4	1.08	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	1.08	5 * 6	1.08	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	1.08	7 * 8	1.08	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	1.08	9 * 10	1.08	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	1.08	11 * 12	0.54	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	1.08	13 * 14	0.54	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	0.72	15 * 16	1.50	20/1	CHECK PRINTER	12	12
12	12	RECEPTACLES	20/1	1.26	17 * 18	1.08	20/1	RECEPTACLES	12	12
12	12	EW C	20/1 GF	1.00	19 * 20	1.08	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	1.08	21 * 22	1.08	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	1.26	23 * 24	1.08	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	1.08	25 * 26	1.08	20/1	RECEPTACLES	12	12
12	12	RECEPTACLES	20/1	1.26	27 * 28	0.36	15/1	4EF-9,10,11	12	12
		SPARE	20/1	29	* 30		20/1	SPARE		
		SPARE	20/1	31	* 32		20/1	SPARE		
		SPARE	20/1	33	* 34		20/1	SPARE		
		SPARE	20/1	35	* 36		20/1	SPARE		
		SPARE	20/1	37	* 38		20/1	SPARE		
		SPACE		39	* 40			SPACE		
		SPACE		41	* 42			SPACE		
PANEL LOAD SUMMARY:				LIGHTING:	0.00	KVA				
				RECEPT & MISC:	27.78	KVA	10.36	KVA PHASE A		
				MOTORS:	1.36	KVA	10.32	KVA PHASE B		
				HEATING:	0.00	KVA	8.46	KVA PHASE C		
				TOTAL:	29.14	KVA				

[illegible]

Renovations for
Greene County Government
Greeneville, Tennessee



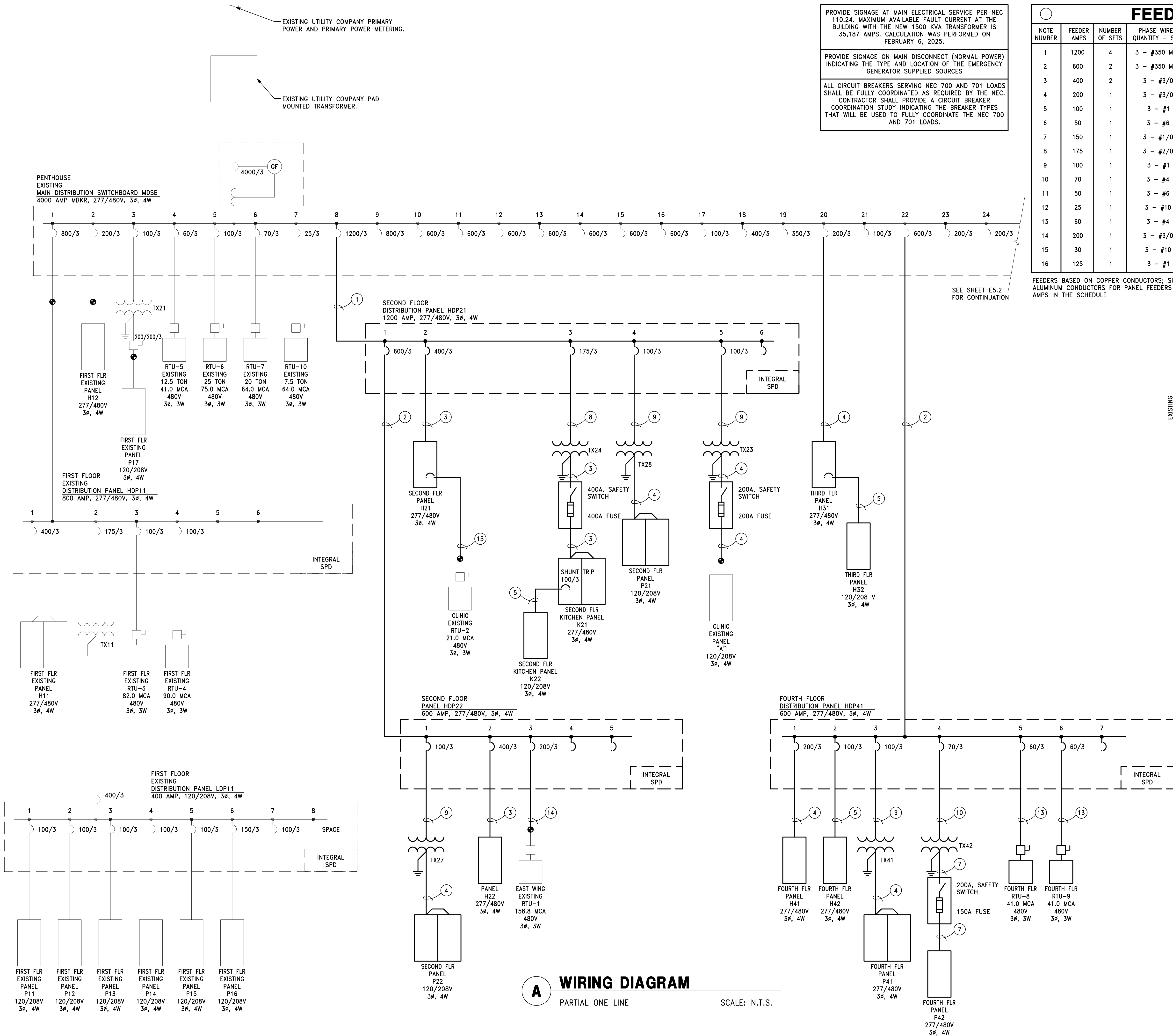
Drawn:	J. Blaser
Checked:	J. Blaser
Job No:	21-160
Scale:	as noted
Date:	05-06-2025
File Name:	24142 electrical
Drawing Title:	Panel Schedules
Sheet No.	E3.6

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BLASER ENG JOB# 24-142



A
WIRING DIAGRAM

PARTIAL ONE LINE

SCALE: N.T.S.

FEEDER SCHEDULE

NOTE NUMBER	FEEDER AMPS	NUMBER OF SETS	PHASE WIRES QUANTITY - SIZE	NEUTRAL WIRE QUANTITY - SIZE	GROUND SIZE	CONDUIT SIZE PER SET	COMMENTS/REMARKS
1	1200	4	3 - #350 MCM	1 - #350 MCM	#4/0	3"	-
2	600	2	3 - #350 MCM	1 - #350 MCM	#1	3"	-
3	400	2	3 - #3/0	1 - #3/0	#3	2"	-
4	200	1	3 - #3/0	1 - #3/0	#6	2"	-
5	100	1	3 - #1	1 - #1	#8	1.5"	-
6	50	1	3 - #6	1 - #6	#10	1"	-
7	150	1	3 - #1/0	1 - #1/0	#6	1.5"	-
8	175	1	3 - #2/0	-	#6	1.5"	-
9	100	1	3 - #1	-	#8	1.25"	-
10	70	1	3 - #4	-	#8	1"	-
11	50	1	3 - #6	-	#10	0.75"	-
12	25	1	3 - #10	-	#10	0.75"	-
13	60	1	3 - #4	-	#10	1"	-
14	200	1	3 - #3/0	-	#6	2"	-
15	30	1	3 - #10	-	#10	0.75"	-
16	125	1	3 - #1	1 - #1	#6	1.5"	-

FEEDERS BASED ON COPPER CONDUCTORS; SUBSTITUTION OF CODE SIZED ALUMINUM CONDUCTORS FOR PANEL FEEDERS IS ALLOWED BASED ON FEEDER AMPS IN THE SCHEDULE

TRANSFORMER SCHEDULE

TFMR NO.	VOLTAGE	KVA	COMMENTS
TX11	480 V, Δ ~ 208/120 V, 3 ϕ	112.5	EXISTING
TX12	480 V, Δ ~ 208/120 V, 3 ϕ	30	EXISTING
TX13	480 V, Δ ~ 208/120 V, 3 ϕ	45	EXISTING
TX21	480 V, Δ ~ 208/120 V, 3 ϕ	75	EXISTING
TX22	480 V, Δ ~ 208/120 V, 3 ϕ	30	EXISTING
TXM1	480 V, Δ ~ 208/120 V, 3 ϕ	75	EXISTING
TXM2	480 V, Δ ~ 208/120 V, 3 ϕ	75	EXISTING
TXM3	480 V, Δ ~ 208/120 V, 3 ϕ	15	EXISTING
TX23	480 V, Δ ~ 208/120 V, 3 ϕ	75	-
TX24	480 V, Δ ~ 208/120 V, 3 ϕ	112.5	-
TX25	480 V, Δ ~ 208/120 V, 3 ϕ	15	-
TX26	480 V, Δ ~ 208/120 V, 3 ϕ	30	-
TX27	480 V, Δ ~ 208/120 V, 3 ϕ	75	-
TX28	480 V, Δ ~ 208/120 V, 3 ϕ	75	-
TX31	480 V, Δ ~ 208/120 V, 3 ϕ	15	-
TX32	480 V, Δ ~ 208/120 V, 3 ϕ	75	-
TX33	480 V, Δ ~ 208/120 V, 3 ϕ	45	-
TX41	480 V, Δ ~ 208/120 V, 3 ϕ	75	-
TX42	480 V, Δ ~ 208/120 V, 3 ϕ	45	-
TX43	480 V, Δ ~ 208/120 V, 3 ϕ	15	-
TX44	480 V, Δ ~ 208/120 V, 3 ϕ	45	-

TRANSFORMER GROUNDING NOTE:
 EACH DRY TYPE TRANSFORMER SHALL BE CONSIDERED A SEPARATELY DERIVED SYSTEM. THE GROUNDING CONDUCTOR RUN IN THE CONDUIT WITH THE SUPPLY CONDUCTORS SHALL BE BONDED TO THE TRANSFORMER ENCLOSURE. THE NEUTRAL SECONDARY POINT SHALL BE BONDED TO THE INCOMING GROUND CONDUCTOR AND THE TRANSFORMER ENCLOSURE. A CODE SIZED GROUNDING ELECTRODE CONDUCTOR SHALL BE BONDED TO THE NEUTRAL AND EXTENDED TO THE NEAREST BUILDING STRUCTURAL STEEL MEMBER AND BONDED TO IT.

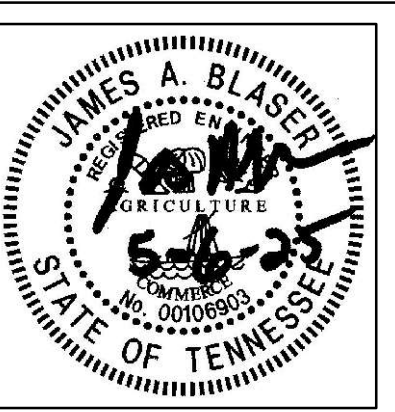
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No.	Revisions
Description	Date

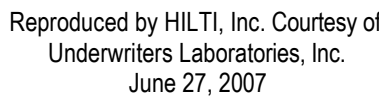
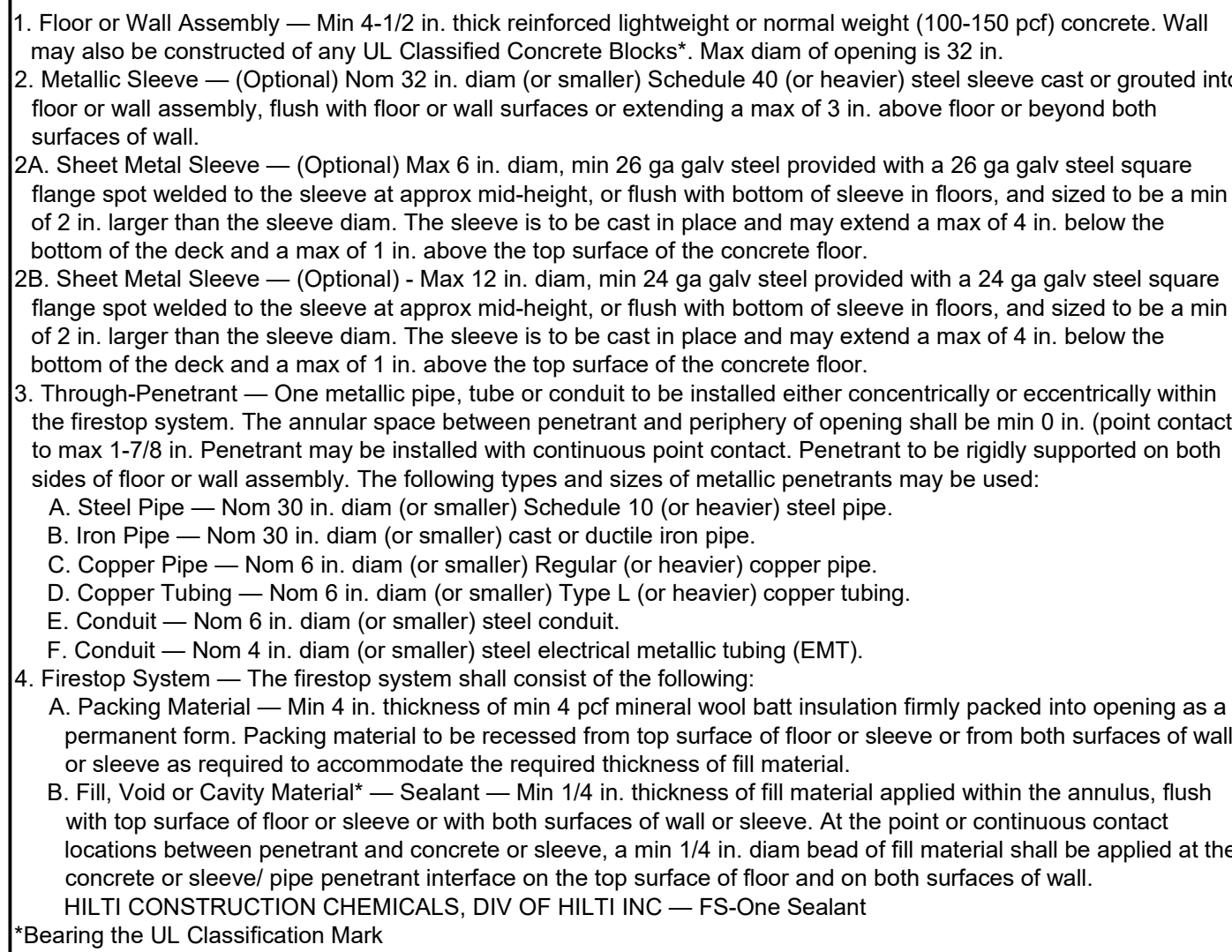


Renovations for
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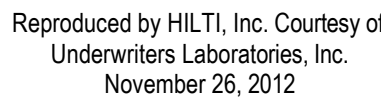
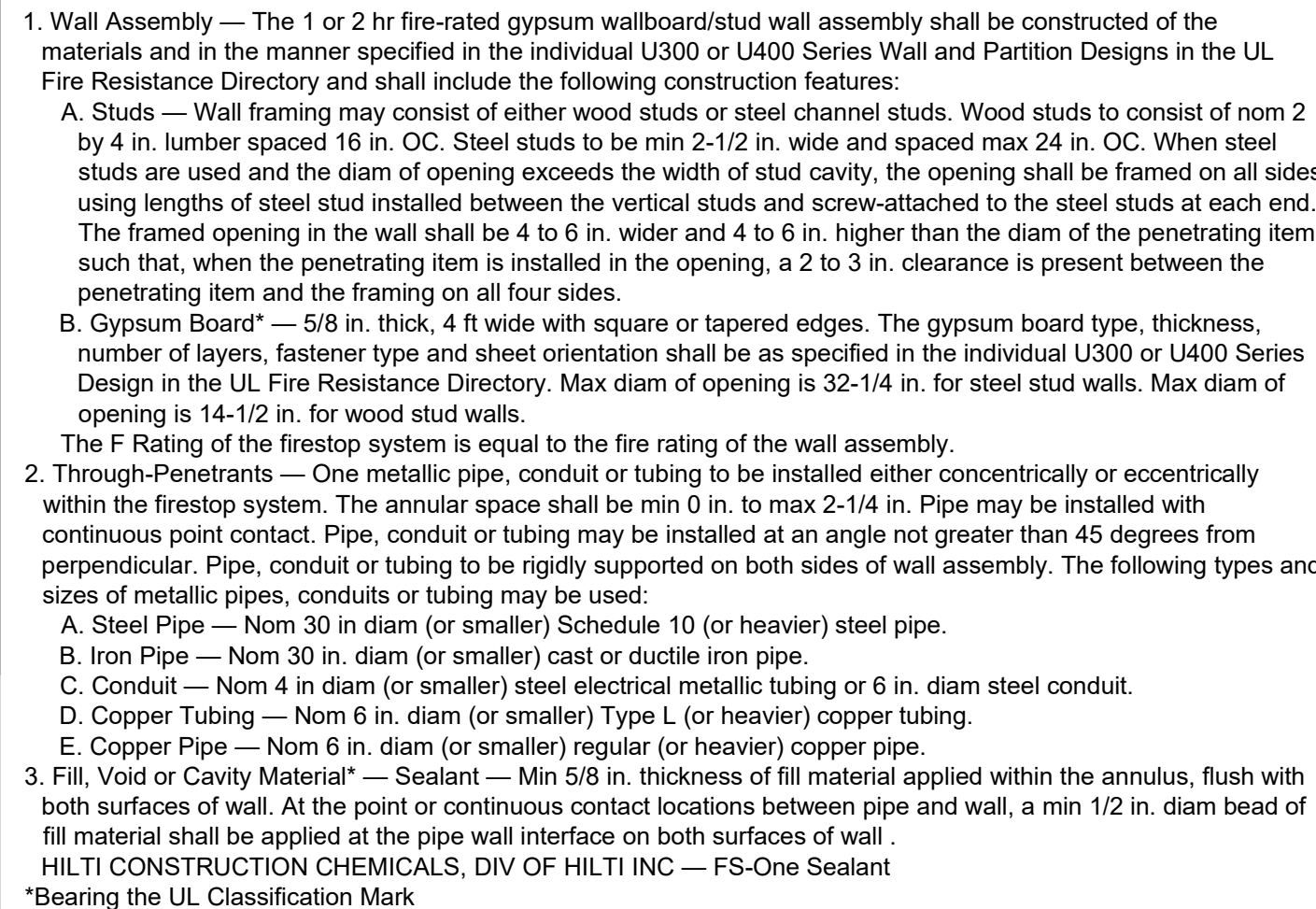


Drawn: **J. Blaser**
 Checked: **J. Blaser**
 Job No: **21-160**
 Scale: **as noted**
 Date: **05-06-2025**
 File Name: **24142 electrical**
 Drawing Title:
 One-Line Diagram

Sheet No.
E4.1



EQUALS BY STI, OR OTHERS



EQUALS BY STI. OR OTHERS

SYMBOLS LIST NOTES:

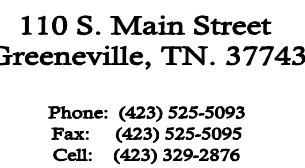
1. STRAIGHT LINES BETWEEN DEVICES INDICATE SWITCHED CIRCUIT.
2. ALL SPECIAL SWITCHES DENOTED AS 3, 4, ETC. SHALL HAVE ALL REQUIRED WIRING PROVIDED TO HAVE AN OPERABLE SYSTEM AS INTENDED BY THE ENGINEER. THIS INCLUDES ALL POWER, NEUTRAL, AND TRAVELER WIRES AS REQUIRED.
3. ALL DEVICES WITH SUBSCRIPT "E" ARE EXISTING TO REMAIN.
4. ALL DEVICES WITH SUBSCRIPT "D" ARE EXISTING TO BE REMOVED.

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BLASER ENG JOB# 24-142

Renovations for
Greene County Government
Greeneville, Tennessee



Sheet No. E5.1

plotted: 5/5/2025 3:10:52 PM
 File: 24-142 ELECTRICAL.DWG

DIVISION 26 - ELECTRICAL

SECTION 26 00 05 ELECTRICAL GENERAL PROVISIONS

- REFERENCE
 - REFER TO INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SPECIAL CONDITIONS, DIVISION 1 – GENERAL REQUIREMENTS, FOR SPECIFIC REQUIREMENTS, RESPONSIBILITIES AND METHODS RELATING TO ELECTRICAL WORK.
- DESCRIPTION
 - FURNISH ALL MATERIALS, LABOR, TOOLS AND EQUIPMENT TO COMPLETE AND LEAVE READY FOR OPERATION ALL ELECTRICAL SYSTEMS AS CALLED FOR IN THESE SPECIFICATIONS OR SHOWN ON THE DRAWINGS AND ANY AND ALL DETAILS ESSENTIAL TO COMPLETE THE WORK.
- QUALITY
 - CONTRACTOR SHALL PROVIDE WORK OF HIGHEST QUALITY, CONFORMING TO THE ACCEPTED PRACTICES AND STANDARDS OF THE TRADES INVOLVED. FURTHER DEFINITION OF QUALITY IS GIVEN BY VARIOUS LAWS, CODES, STANDARDS AND REGULATIONS.
- CODES
 - ALL WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
 - ALL EQUIPMENT SHALL BE PROPERLY RATED FOR THE SEISMIC ACTIVITY ZONE FOR WHICH IT IS INSTALLED.
- CONTRACT DRAWINGS
 - DRAWINGS ARE SCHEMATIC AND SHOW APPROXIMATE LOCATIONS AND EXTENT OF WORK. EXACT LOCATIONS MUST BE COORDINATED WITH OTHER TRADES AND VERIFIED IN THE FIELD. THE RIGHT IS RESERVED TO RELOCATE ANY ELEMENT UP TO TEN (10) FEET AT NO INCREASE IN COST PROVIDED THE CONTRACTOR IS NOTIFIED BEFORE COMMENCEMENT OF WORK.
- PERMITS, FEES AND NOTICES
 - UNLESS OTHERWISE EXCLUDED IN THE CONTRACT DOCUMENTS, EACH CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND GOVERNMENTAL FEES, LICENSES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF HIS WORK.
- GUARANTEE
 - CONTRACTOR SHALL GUARANTEE HIS WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- EXAMINATION OF SITE
 - CONTRACTOR SHOULD VISIT THE SITE OF THE PROPOSED PROJECT, CERTAIN EXISTING CONDITIONS MAY AFFECT THE MANNER OR SEQUENCE OF THE PERFORMANCE OF THE WORK.
- RECORD DRAWINGS
 - CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, ONE COPY OF THE DRAWINGS WHICH SHALL BE USED EXCLUSIVELY FOR RECORDING ANY INSTALLATION DEVIATION FROM THE CONTRACT DRAWINGS. SUBMIT DRAWINGS TO ARCHITECT UPON COMPLETION OF PROJECT.
- CUTTING AND PATCHING
 - EACH CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING REQUIRED FOR HIS OWN WORK. WORK MUST BE ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER, ACCEPTABLE TO THE ARCHITECT. PATCH TO MATCH ADJACENT SURFACE CONSTRUCTION.
- TESTS
 - THE CONTRACTOR SHALL BEAR ALL COSTS OF SUCH INSPECTIONS, TESTS OR APPROVALS, AS REQUIRED BY LOCAL AUTHORITIES.
- SUBMITTALS
 - MATERIALS AND EQUIPMENT INSTALLED IN THIS WORK SHALL MEET ALL THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND NO MATERIALS OR EQUIPMENT SHALL BE ORDERED UNTIL SUBMITTALS ARE REVISED AND APPROVED BY THE ARCHITECT OR ENGINEER.
 - REQUIRED SUBMITTALS INCLUDE:
 - WIRING DEVICES AND PLATES
 - LIGHTING FIXTURES
 - LIGHTING CONTROLS & OCCUPANCY SENSORS
 - TIME CLOCK, PHOTO ELECTRIC CONTROLS, AND CONTACTORS
 - CIRCUIT BREAKER PANELBOARD, TRANSFORMERS, & SAFETY SWITCHES
 - SURGE SUPPRESSION DEVICE (SPD)
 - FIRE ALARM SYSTEM DEVICES

SECTION 26 05 19 CONDUCTORS AND CONNECTORS

- FURNISH AND INSTALL ALL ELECTRICAL CONDUCTORS FOR FEEDERS, BRANCH CIRCUIT WIRING, AND SYSTEM WIRING.
- ALL WIRE SHALL BE UL LISTED COPPER, 600 VOLT RATED.
- ALL WIRE SHALL BE STRANDED IN SIZES #8 AND LARGER.
- WIRE SHALL BE TYPE THHN/THWN.
- MINIMUM WIRE SIZE SHALL BE NO. 12 AWG.
- ALL 120 VOLT CIRCUITS OVER 75 FEET IN LENGTH SHALL HAVE ALL OF THE CONDUCTORS UPSIZED ONE WIRE SIZE. (I.E. ALL #12 AWG WILL BECOME #10 AWG)
- ALL CONDUCTORS ARE TO BE IDENTIFIED, BRANCH CIRCUITS AND FEEDERS BY COLOR CODING AS FOLLOWS:

120/208V	277/480V
PHASE A – BLACK	PHASE A – BROWN
PHASE B – RED	PHASE B – ORANGE
PHASE C – BLUE	PHASE C – YELLOW
NEUTRAL – WHITE	NEUTRAL – GRAY W/ WHITE STRIPE
GROUND – GREEN	GROUND – GREEN W/ YELLOW STRIPE
- THE COLOR CODING ON #6 AND SMALLER CONDUCTORS SHALL BE CONTINUOUS IN LENGTH. NO TAPING, PAINTING OR OTHER MEANS OF CODING WILL BE ACCEPTABLE. THE COLOR CODING ON #4 AND LARGER CONDUCTORS SHALL BE IN THE FORM OF COLORED TAPE VISIBLE AT EACH POINT OF ACCESS OR VIEW. COLOR CODING SHALL CONFORM TO THE REQUIREMENTS OF NEC ARTICLE 200.6.
- FOR #10 AND SMALLER BRANCH CIRCUIT AND FIXTURE CONDUCTOR SPLICES, USE "LIVE SPRING", PRESSURE CABLE CONNECTORS LISTED FOR 600 VOLT (1000 VOLT WHEN ENCLOSED IN FIXTURE OR SIGN).
- FOR TERMINAL CONNECTIONS ON COPPER, NO. 8 OR LARGER, OR WHERE MULTIPLE CONNECTIONS ARE MADE TO ONE TERMINAL, USE SOLDERLESS LUGS, MECHANICAL TYPE AS NECESSARY.
- FOR SPLICES ON CONDUCTORS LARGER THAN #10, COMPRESSION TYPE BARREL SPLICES SHALL BE USED.

SECTION 26 05 26 GROUNDING

- GROUNDING OF THE ELECTRICAL SYSTEM SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- METAL ENCLOSURES, CABLE TRAYS, OR RACEWAYS FOR CONDUCTORS OR EQUIPMENT SHALL BE GROUNDED.
- EXPOSED NONCURRENT-CARRYING METAL PARTS OF FIXED EQUIPMENT LIKELY TO BECOME ENERGIZED SHALL BE GROUNDED.
- BONDING SHALL BE PROVIDED AND CONFORM TO ALL REQUIREMENTS OF NEC ARTICLE 250 PART V.
- ALL RACEWAYS SHALL CONTAIN A GROUNDING CONDUCTOR.

SECTION 26 05 33 PANELBOARDS, WIRING DEVICES, AND PLATES

- THE FOLLOWING ARE THE ONLY APPROVED MANUFACTURERS FOR PANELBOARDS, AND SAFETY SWITCHES:
 - SQUARE D
 - SIEMENS
 - EATON
 - ABB/GENERAL ELECTRIC
- PANELBOARDS:
 - CIRCUIT BREAKERS: QUICK-MAKE, QUICK-BREAK, THERMAL-MAGNETIC, TRIP INDICATING, WITH COMMON TRIP ON ALL MULTI-POLE BREAKERS. BRANCH CIRCUIT BREAKERS, FEEDING CONVENIENCE OUTLETS SHALL HAVE SENSITIVE INSTANTANEOUS TRIP SETTINGS OF NOT MORE THAN 10 TIMES THE TRIP RATING OF THE BREAKER IN ORDER TO GIVE "FLASH PROTECTION" FOR FRAYED STRANDED WIRE CORDS. CONNECTIONS TO THE BUSS BOLT-ON TYPE.
 - ALL BREAKERS USED TO PANEL SWITCH LIGHTING CIRCUITS SHALL BE UL LISTED SWD (SWITCHING DUTY) RATED AT APPLIED VOLTAGE. ALL BREAKERS USED TO SERVE PACKAGE TYPE AIR CONDITIONING EQUIPMENT SHALL BE UL LISTED "HACR".
 - BUS BAR CONNECTIONS TO THE BRANCH CIRCUIT BREAKERS SHALL BE "PHASE SEQUENCE" TYPE. THREE-PHASE, FOUR-WIRE BUSSING SHALL BE SUCH THAT ANY THREE ADJACENT SINGLE-POLE BREAKERS ARE INDIVIDUALLY CONNECTED TO EACH OF THE THREE DIFFERENT PHASES. ALL BUSSING SHALL BE COPPER OR TIN PLATED ALUMINUM.
 - PROVIDE ARC ENERGY REDUCTION ON ALL CIRCUIT BREAKERS 1200 AMP AND ABOVE PER (2017) NEC 240.87.
 - FRONTS SHALL INCLUDE DOORS AND HAVE FLUSH, C.P. STEEL, CYLINDER LOCKS WITH CATCHES AND SPRING-LOADED DOOR PULLS. FRONTS SHALL HAVE ADJUSTABLE INDICATING TRIM CLAMPS WHICH ARE CONCEALED WHEN THE DOORS ARE CLOSED. DOORS SHALL BE MOUNTED BY CONCEALED HINGES. FRONTS SHALL NOT BE REMOVABLE WITH DOOR IN LOCKED POSITION. A CIRCUIT DIRECTORY FRAME AND CARD WITH A CLEAR PLASTIC COVERING SHALL BE PROVIDED ON THE INSIDE OF THE DOOR. FRONTS SHALL BE OF CODE GAUGE, FULL FINISHED STEEL WITH RUST-INHIBITING PRIMER AND BAKED ENAMEL FINISH. MINIMUM PANELBOARD WIDTH TO BE 20".
 - FOR EACH PANEL, FURNISH ONE CIRCUIT BREAKER LOCK OFF DEVICE.
 - DIRECTORY CARDS SHALL BE TYPED AND PROTECTED WITH CLEAR PLASTIC. INDICATE CIRCUITS USE SUCH AS "LIGHTING-OFFICE 105". VERIFY PROPER ROOM IDENTIFICATION.
 - PROVIDE UPDATED PANEL DIRECTORY CARDS REFLECTING THE CHANGES MADE IN THESE DOCUMENTS.
- WIRING DEVICE:
 - DEVICES SHALL BE "SPECIFICATION" GRADE AND TAMPER RESISTANT.
 - RECEPTACLES SHALL BE 20 AMP; HAVE GROUNDING TERMINAL AND SHALL BE "SELF-GROUNDING".
 - DEVICES SHALL BE WHITE IN COLOR, OR AS SELECTED BY THE ARCHITECT.
 - EMERGENCY DEVICES SHALL BE RED IN COLOR.
 - PLATES SHALL BE SAME MANUFACTURER AS DEVICES AND SHALL BE 0.04" THICK BRUSHED STAINLESS STEEL.
 - DEVICES ON OPPOSITE SIDES OF A RATED PARTITION SHALL BE SEPARATED BY A MINIMUM OF 24".
 - PROVIDE FIRE RATED MOLDABLE PUTTY PADS ON THE ELECTRICAL BOXES LOCATED IN A RATED PARTITION.
 - ALL UNUSED OUTLET BOXES SHALL HAVE BLANK COVER PLATES INSTALLED.
- SAFETY SWITCHES:
 - SHALL BE OF FUSIBLE AND OF HEAVY DUTY CONSTRUCTION.
 - PROVIDE NEMA 3R RATED SWITCHES OUTDOORS.
 - PROVIDE FUSING AS SHOWN ON THE EQUIPMENT NAMEPLATE.
- SURFACE RACEWAY:
 - PROVIDE SURFACE METAL RACEWAY WHERE CONCEALED CONDUIT INSTALLATION IS NOT POSSIBLE IN FINISHED SPACES. ALL LOCATIONS MUST BE APPROVED BY THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
 - USE JUNCTION BOX AT CONDUIT CONNECTION WITH SUITABLE COVERS, ELBOWS, SPECIAL FITTINGS, ETC. AS REQUIRED OR SHOWN.
 - RACEWAYS SHALL BE SURFACE-MOUNTED, COLD ROLLED, GALVANIZED STEEL WITH A BASE THICKNESS OF 0.05" AND A COVER THICKNESS OF 0.05". OUTSIDE SURFACES OF BASE AND COVER SHALL MATCH WALL COLOR.
 - PROVIDE ALL NECESSARY FITTINGS AS REQUIRED FOR A COMPLETE INSTALLATION.

SECTION 26 05 33.13 RACEWAYS, FITTINGS, AND SUPPORTS

- ALL CONDUCTORS SHALL BE ENCLOSED IN A CONTINUOUS GROUNDED RACEWAY SYSTEM.
- ALL CONDUITS SHALL BE RUN WITH-IN THE WALL CAVITY. AREAS WHERE CONCEALED CONDUITS ARE NOT POSSIBLE SHALL BE APPROVED BY THE ARCHITECT PRIOR TO ANY WORK PROCEEDING.
- ALL CONDUITS SHALL BE RIGID HEAVY WALL GALVANIZED STEEL, UNLESS NOTED BELOW, MINIMUM 3/4 INCH TRADE SIZE.
- EMT MAY BE USED AS FOLLOWS:
 - IN INTERIOR PARTITIONS INSIDE BUILDING
 - ABOVE SUSPENDED CEILINGS INSIDE BUILDING
 - EXPOSED ABOVE 9 FOOT A.F.F. INSIDE BUILDING (EXCEPT HAZARDOUS LOCATIONS) IN UNFINISHED AREAS.

- INTERMEDIATE GALVANIZED STEEL CONDUIT MAY BE USED IN LIEU OF RIGID STEEL CONDUIT WITHIN THE BUILDING INTERIOR.
- MC CABLE MAY BE USED AS FOLLOWS:
 - TYPE "MC" CABLE MAY BE USED FOR CONCEALED BRANCH CIRCUIT WIRING IN DRY LOCATIONS (IN WALLS OR ABOVE CEILINGS) BETWEEN LIGHTING FIXTURES, OR POWER OUTLETS. HOMERUNS, MULTI-WIRE BRANCH CIRCUITS, AND CIRCUIT RUNS WITH – MULTIPLE CIRCUITS SHALL OCCUR IN CONDUIT. CONVERSION FROM "MC" CABLE TO CONDUIT SHALL OCCUR WITHIN 10 FEET OF FIRST UTILIZATION DEVICE CONNECTION TO CIRCUIT.
 - THREE CONDUCTOR, THHN/THWN INSULATED, ALUMINUM OR GALVANIZED STEEL INTERLOCKED ARMOR TYPE MC POWER CABLE FOR USE IN CIRCUITS NOT EXCEEDING 600 VOLTS PHASE TO PHASE AT CONDUCTOR TEMPERATURES OF 90°C IN DRY LOCATIONS FOR NORMAL OPERATION.
 - CABLE ASSEMBLY SHALL INCLUDE FULL-SIZE GROUNDING CONDUCTOR, AND FULL-SIZE ISOLATED GROUNDING CONDUCTOR (IF APPLICABLE), WITH SUITABLE FILLERS AND BINDER TAPE WITH ANTI-SHORT BUSHINGS.
 - TYPE "MC" CABLE SHALL BE OF THE SINGLE CIRCUIT TYPE ONLY.
- FLEXIBLE STEEL CONDUIT (UP TO THREE FEET IN LENGTH) SHALL BE USED FOR CONNECTIONS TO MOTORS, VIBRATING EQUIPMENT, AND CONNECTIONS FOR WHICH RIGID, IMC, OR EMT CONDUIT IS NOT APPLICABLE. FLEXIBLE STEEL CONDUIT UP TO SIX FEET IN LENGTH SHALL BE USED FOR CONNECTIONS TO LIGHTING FIXTURES. A GREEN GROUNDING CONDUCTOR SHALL BE INSTALLED IN EACH FLEXIBLE CONDUIT. ALL RUNS SHALL BE TERMINATED IN INSULATED FLEXIBLE CONDUIT FITTINGS. MINIMUM SIZE TO BE 1/2 INCH.
- LIQUID TIGHT FLEXIBLE STEEL CONDUIT (UP TO THREE FEET IN LENGTH) AND APPROPRIATE FITTINGS SHALL BE USED FOR CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT IN AREAS EXPOSED TO THE WEATHER OR LIKELY TO BECOME DAMP.
- PVC CONDUIT MAY ONLY BE USED UNDERGROUND OUTSIDE THE BUILDING OR UNDER CONCRETE SLABS ON GRADE WITHIN THE BUILDING. CONDUITS AND ELBOWS TURNING UP INTO THE BUILDING SPACE SHALL BE RIGID STEEL.
- FLEXIBLE CONDUIT OR TYPE MC CABLE MAY BE USED TO CONNECT OUTLETS INSTALLED WITHIN BUILT UP CASEWORK.
- CONDUITS LARGER THAN ONE INCH SHALL HAVE GROUNDING TYPE BUSHINGS.
- ALL CONDUIT AND EMT FITTINGS SHALL BE DIE CAST ZINC OR GALVANIZED STEEL. CONNECTORS AND COUPLINGS SHALL BE THREADED, COMPRESSION OR SETSCREW TYPE. CONCRETE TIGHT. CONDUIT BODIES SHALL BE MALLEABLE IRON, THREADED FOR HEAVYWALL CONDUIT AND COMPRESSION OR SETSCREW TYPE FOR EMT, WITH CADMIUM FINISH AND CADMIUM PLATED SHEET STEEL COVERS. PROVIDE NEOPRENE COVER GASKETS FOR CONDUIT BODY COVERS EXPOSED TO THE WEATHER.
- OUTLETS, JUNCTION, PULL BOXES, ETC. WHEN OVERHEAD SHALL BE INDEPENDENTLY SUPPORTED AND SHALL NOT DEPEND UPON CONDUIT FOR SUPPORT. WHERE RUN IS NOT SUPPORTED BY SLABS, WALLS, ETC., USE GALVANIZED PIPE STRAPS, TRAPEZE HANGERS, BEAM CLAMPS, CHANNEL AND FITTINGS, ETC. SUPPORT WITHIN 3' OF EACH OUTLET BOX, JUNCTION BOX, CABINET OR FITTING. SUPPORT AT LEAST EVERY 10 FEET.

SECTION 26 09 00 CONTACTORS, PHOTO-ELECTRIC CONTROLS & TIME CLOCKS

- CONTACTORS SHALL BE SUITABLE FOR CONTINUOUS DUTY WITH ALL TYPES OF LOADS, AND BE INDUSTRIAL DUTY AND RATED 600 VOLTS.
- CONTACTORS SHALL HAVE 120 VOLT COILS UNLESS NOTED OTHERWISE.
- CONTACTORS SHALL HAVE TOTALLY ENCLOSED SILVER ALLOY DOUBLE BREAK POWER CONTACTS CAPABLE OF MAKING AND BREAKING ANY LOAD WITHIN THE RATING OF THE CONTACTOR WITHOUT THE ASSISTANCE OF AUXILIARY ARCING CONTACTS. ALL CONTACTS MUST BE REMOVABLE WITHOUT DISTURBING LINE OR LOAD WIRING.
- PHOTO-ELECTRIC CONTROLS SHALL BE CONSTRUCTED OF CADMIUM SULPHIDE CELL HERMETICALLY SEALED GLASS TO STEEL AND HAVE TOTALLY ENCLOSED CONTACTS, NORMALLY CLOSED, SNAP ACTION, RATED 1800 VA.
- THE TIME CLOCK SHALL BE 7 DAY, DIGITAL, AUTO-ADJUSTING ASTRONOMICAL TIME CLOCK WITH SUPER CAPACITOR MEMORY BACKUP. TORK EWZ101 SERIES OR EQUAL.

SECTION 26 09 23 OCCUPANCY SENSORS

- OCCUPANCY SENSORS SHALL BE MANUFACTURED BY SENSORSWITCH OR EQUAL.
- OCCUPANCY SENSOR COLOR SHALL BE WHITE WHEN MOUNTED ON THE CEILING, AND MATCH THE WALL RECEPTACLES WHERE WALL MOUNTED.
- WALL BOX OCCUPANCY SENSOR USED IN OFFICES AND PRIVATE TOILETS SHALL HAVE PIR TECHNOLOGY AND MICROPHONICS, SENSORSWITCH WSX-PDT SERIES.
- WALL BOX OCCUPANCY SENSORS WITH DIMMING SHALL HAVE PIR TECHNOLOGY AND MICROPHONICS, SENSORSWITCH WSX-PDT-D SERIES.
- WALL BOX OCCUPANCY SENSOR USED IN PRIVATE TOILETS WITH EXHAUST FANS SHALL HAVE PIR TECHNOLOGY AND MICROPHONICS, 2 POLE, SENSORSWITCH WSX-PDT-2P SERIES. THE 2 SWITCHES SHALL HAVE INDICATORS FOR LIGHT OR FAN OPERATION.
- CEILING MOUNTED OCCUPANCY SENSORS USED IN RESTROOMS SHALL HAVE PIR TECHNOLOGY AND MICROPHONICS, SENSORSWITCH CM-PDT SERIES OVER THE TOILET STALLS, AND PIR ONLY IN THE RESTROOM VESTIBULE AREA, SENSORSWITCH CM SERIES.
- CEILING MOUNTED OCCUPANCY SENSORS USED IN HIGH HUMIDITY AREAS SUCH AS SHOWER AREAS SHALL BE RATED FOR HIGH HUMIDITY.
- CEILING MOUNTED OCCUPANCY SENSORS USED IN TRAINING AND CONFERENCE ROOMS SHALL HAVE PIR TECHNOLOGY AND MICROPHONICS, SENSORSWITCH CM-PDT SERIES.
- CEILING CORNER MOUNTED OCCUPANCY SENSORS USED IN PRIVATE OFFICES SHALL HAVE PIR TECHNOLOGY AND MICROPHONICS, SENSORSWITCH WVR-PDT SERIES.
- CEILING MOUNTED OCCUPANCY SENSORS USED IN OFFICES SHALL HAVE PIR TECHNOLOGY AND MICROPHONICS, SENSORSWITCH CM-PDT SERIES.
- CONTRACTOR SHALL PROVIDE THE PROPER OCCUPANCY SENSOR MODEL FOR THE CEILING HEIGHT AND SQUARE FOOTAGE OF THE ROOM/AREA SERVED.
- SWITCHPACKS SHALL BE HEAVY DUTY, 120/277 VOLT, 20 AMP OUTPUT. UNIT SHALL ALSO PROVIDE LOW VOLTAGE TO POWER OCCUPANCY SENSORS.
- WALL OCCUPANCY SENSORS SHALL BE INITIALLY SET TO TURN THE LIGHTS OFF AFTER 15 MINUTES OF NOT SENSING MOVEMENT, AND SHALL BE MANUAL "ON".

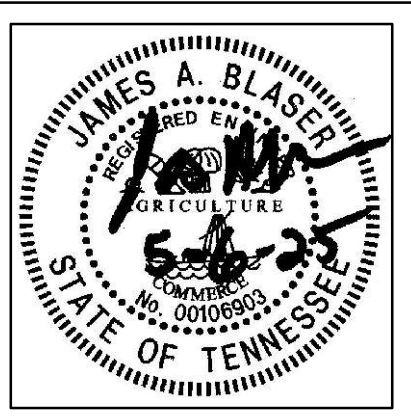
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DIVISION 26 - ELECTRICAL (CONTINUED)

SECTION 26 09 43 LIGHTING CONTROLS

1.

THE LIGHTING CONTROL SYSTEM SHALL HAVE ALL COMPONENTS NECESSARY TO MAKE THE SYSTEM OPERATIONAL. THIS INCLUDES THE CONTROLLER, OCCUPANCY SENSORS WITH DAYLIGHT SENSING, RELAY/DIMMING CONTROL PACK, DIMMING/ENTRY STATIONS, TOUCHSCREEN CONTROLLERS, POWER SUPPLIES, ALL CONTROL WIRING, ETC.
2.

PART NUMBERS:
- 2.1.

POWER/RELAY PACK WITH 0-10V DIMMING CONTROL, nLIGHT nPP16 SERIES OR EQUAL.
- 2.2.

POWER/RELAY PACK WITH 120 VOLT LINE/PHASE DIMMING CONTROL, nLIGHT nPP-PCD SERIES OR EQUAL.
- 2.3.

OCCUPANCY SENSOR, nCM PDT SERIES OR EQUAL. PROVIDE SENSOR SUITABLE FOR THE APPLICATION.
- 1.4.

DIMMING/ENTRY STATION, nPODMA SERIES OR EQUAL.
- 1.5.

4 BUTTON DIMMING SCENE CONTROLLER, nPODMA-4S SERIES OR EQUAL.
- 1.8.

DIGITAL TIME CLOCK, nPOD nDTC SERIES OR EQUAL.
- 1.9.

TOUCHSCREEN WALL SWITCH, nPOD TOUCH SERIES OR EQUAL, COORDINATE DEVICE COLOR WITH THE ARCHITECT.
2.

OPERATIONS:
- 2.1.

COORDINATE INTENDED OPERATION OF THE LIGHTING AND BUSINESS HOURS WITH THE OWNER / TENANT PRIOR TO PROGRAMMING.
- 2.2.

COMMON AREAS AND CORRIDORS ARE TO BE CONTROLLED BY THE DIGITAL TIME CLOCK DURING NORMAL OPERATING HOURS AND CONTROLLED BY THE OCCUPANCY SENSORS AT ALL OTHER TIMES.

SECTION 26 22 13 DRY TYPE DISTRIBUTION TRANSFORMERS

1.

TRANSFORMERS 30KVA - 1500KVA THREE PHASE SHALL BE ENCLOSED IN AN OPEN, VENTILATED, DRIP-PROOF ENCLOSURE, SELF BRACING, WITH REMOVABLE FRONT AND REAR COVER PANELS TO PROVIDE EASY ACCESS TO A TERMINAL COMPARTMENT LOCATED BELOW THE CORE AND COILS.
2.

TRANSFORMER COILS SHALL BE INSULATED WITH A UL RATED 220 DEGREE C SYSTEM. PROVIDE TRANSFORMER WITH 150 DEGREE C TEMPERATURE RISE.
3.

TRANSFORMERS SHALL HAVE AVERAGE SOUND LEVELS WHICH DO NOT EXCEED THE LEVELS ESTABLISHED BY NEMA AND ANSI STANDARDS.
4.

TRANSFORMERS SHALL HAVE AT LEAST (6) 2-1/2% 2 + 4-FCAN AND FCBN TAPS.
5.

ENCLOSURE SHALL BE DEGREASED, CLEANED, PRIMED AND FINISHED WITH A GRAY ENAMEL PAINT.
6.

TRANSFORMERS SHALL MEET THE ENERGY EFFICIENCY STANDARDS SET FORTH IN THE DEPARTMENT OF ENERGY 2016 STANDARDS (10 CFR PART 431).
7.

MANUFACTURERS SHALL BE ACME TRANSFORMER, SQUARE D, SIEMENS, EATON, FEDERAL PACIFIC, AND ABB/GENERAL ELECTRIC.

SECTION 26 30 00 TELEPHONE SERVICE

1.

PROVIDE THE NECESSARY CONDUITS, OUTLETS, PLATES, CABINETS, AND PLYWOOD MOUNTING BOARDS AS SHOWN AND/OR AS REQUESTED BY THE TELEPHONE UTILITY.
2.

UNLESS SPECIFICALLY NOTED, MINIMUM CONDUIT SIZE SHALL BE 3/4". CONDUIT SERVING 2 OR MORE PHONES SHALL BE 1" OR LARGER, AS NOTED.
3.

TELEPHONE BACKBOARDS SHALL BE FIRE RETARDANT 3/4" GRADE B-C PLYWOOD OF WIDTH SHOWN IN DRAWINGS, 6 FOOT HIGH AND MOUNTED 2 FEET ABOVE THE FLOOR.
4.

PROVIDE EMPTY CONDUIT SYSTEMS FOR TELEPHONE COMPANY.
5.

ALL UNUSED DATA/TELEPHONE BOXES SHALL HAVE BLANK COVER PLATES INSTALLED.

SECTION 26 43 13 SURGE SUPPRESSION

1.

SPD UNITS AND ALL COMPONENTS SHALL BE DESIGNED, MANUFACTURED, AND TESTED IN ACCORDANCE WITH THE LATEST APPLICABLE UL STANDARD (ANSI/UL 1449 3RD EDITION).
2.

THE MANUFACTURER SHALL BE ISO 9000 CERTIFIED AND HAVE PRODUCED SIMILAR ELECTRICAL EQUIPMENT FOR A MINIMUM PERIOD OF FIVE (5) YEARS.
3.

ELECTRICAL REQUIREMENTS:
- 3.1.

MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV) SHALL NOT BE LESS THAN 125% OF THE SYSTEM OPERATING VOLTAGE.
- 3.2.

THE SUPPRESSION SYSTEM SHALL INCORPORATE THERMALLY PROTECTED METAL-OXIDE VARISTORS (MOVS) AS THE CORE SURGE SUPPRESSION COMPONENT FOR THE SERVICE ENTRANCE AND ALL OTHER DISTRIBUTION LEVELS.
- 3.3.

PROTECTION MODES - THE SPD MUST PROTECT ALL MODES OF THE ELECTRICAL SYSTEM. THE REQUIRED PROTECTION MODES ARE L-N, L-G, L-L, N-G
4.

NOMINAL DISCHARGE CURRENT (IN) - ALL SPDs APPLIED TO THE DISTRIBUTION SYSTEM SHALL HAVE A 20KA IN RATING REGARDLESS OF THEIR TYPE OR VOLTAGE. SPDs HAVING AN IN LESS THAN 20KA SHALL BE REJECTED.
5.

ANSI/UL 1449 3RD EDITION VOLTAGE PROTECTION RATING (VPR) - THE MAXIMUM ANSI/UL 1449 3RD EDITION VPR FOR THE DEVICE SHALL NOT EXCEED THE FOLLOWING:
- MODES

208Y/120

480Y/277
- L-N; L-G; N-G

700

1200
- L-L

1200

2000
6.

SPD DESIGN:
- 6.1.

THE SPD SHALL BE MAINTENANCE FREE AND SHALL NOT REQUIRE ANY ANY USER INTERVENTION THROUGHOUT ITS LIFE.
- 6.2.

THE UNIT SHALL INCLUDE A HIGH-PERFORMANCE EMI/RFI NOISE REJECTION FILTER. NOISE ATTENUATION FOR ELECTRIC LINE NOISE SHALL BE UP TO 50 DB FROM 10 KHZ TO 100 MHZ.
- 6.3.

THE SPD SHALL PROVIDE THE FOLLOWING INTEGRAL MONITORING OPTIONS:
- 6.3.1.

UNIT SHALL HAVE A GREEN / RED SOLID-STATE INDICATOR LIGHT THAT REPORTS THE STATUS OF THE PROTECTION ON EACH PHASE.
- 6.3.2.

THE SPD MUST INCLUDE FORM C DRY CONTACTS (ONE NO AND ONE NC) FOR REMOTE ANNUNCIATION OF ITS STATUS. BOTH THE NO AND NC CONTACTS SHALL CHANGE STATE UNDER ANY FAULT CONDITION.
- 6.3.3.

SPD SHALL CONTAIN AN AUDIBLE ALARM THAT WILL BE ACTIVATED UNDER ANY FAULT CONDITION. THERE SHALL ALSO BE AN AUDIBLE ALARM SILENCE BUTTON USED TO SILENCE THE AUDIBLE ALARM AFTER IT HAS BEEN ACTIVATED.
- 6.3.4.

SPD SHALL BE EQUIPPED WITH AN LCD DISPLAY THAT INDICATES TO THE USER HOW MANY SURGES HAVE OCCURRED. ONGOING SURGE COUNT SHALL BE STORED IN NON-VOLATILE MEMORY.

- 6.4.

SAFETY REQUIREMENTS:
- 6.4.1.

THE SPD SHALL MINIMIZE POTENTIAL ARC FLASH HAZARDS BY CONTAINING NO USER SERVICEABLE / REPLACEABLE PARTS AND SHALL BE MAINTENANCE FREE. SPDs CONTAINING ITEMS SUCH AS REPLACEABLE MODULES, REPLACEABLE FUSES, OR REPLACEABLE BATTERIES SHALL NOT BE ACCEPTED. SPDs REQUIRING ANY MAINTENANCE OF ANY SORT SUCH AS PERIODIC TIGHTENING OF CONNECTIONS SHALL NOT BE ACCEPTED.
- 6.4.2.

SPDs DESIGNED TO INTERFACE WITH THE ELECTRICAL ASSEMBLY VIA CONDUCTORS SHALL REQUIRE NO USER CONTACT WITH THE INSIDE OF THE UNIT. SUCH UNITS SHALL HAVE ANY REQUIRED CONDUCTORS BE FACTORY INSTALLED.
- 6.5.

SYSTEM APPLICATION:
- 6.5.1.

ALL SPDs SHALL BE TESTED AND DEMONSTRATE SUITABILITY FOR APPLICATION WITHIN ANSI/IEEE C62.41 CATEGORY C, B, AND A ENVIRONMENTS.
- 6.5.2.

MINIMUM SURGE CURRENT CAPACITY BASED ON ANSI/IEEE C62.41. DEVICE IS CAPABLE OF WITHSTANDING AS FOLLOWS:
- CATEGORY

APPLICATION

PER PHASE

PER MODE
- B

HIGH EXPOSURE ROOF TOP LOCATIONS (DISTRIBUTION PANELBOARDS) 600-1600a

150 KA

75 KA
- A

BRANCH LOCATIONS (PANELBOARDS) 200-400 amp panels

100 KA

50 KA
7.

SPD TYPE - ALL SPDs INSTALLED ON THE LINE SIDE OF THE SERVICE ENTRANCE DISCONNECT SHALL BE TYPE 1 SPDs. ALL SPDs INSTALLED ON THE LOAD SIDE OF THE SERVICE ENTRANCE DISCONNECT SHALL BE TYPE 1 OR TYPE 2 SPDs.
8.

THE MANUFACTURER SHALL PROVIDE A FULL FIVE (5) YEAR WARRANTY FROM THE DATE OF SHIPMENT AGAINST ANY SPD PART FAILURE WHEN INSTALLED IN COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND ANY APPLICABLE NATIONAL OR LOCAL CODE.

SECTION 26 50 00 LIGHTING FIXTURES

1.

FURNISH LIGHTING FIXTURES, LAMPS AND DRIVERS/BALLAST AS INDICATED ON THE DRAWINGS OR APPROVED EQUALS TO SPECIFIED FIXTURES.
2.

FURNISH ALL REQUIRED INSTALLATION ACCESSORIES FOR THE FIXTURES AS REQUIRED FOR THE SPECIFIC LOCATION WHETHER OR NOT INCLUDED IN THE MANUFACTURER'S CATALOG NUMBER. SUCH ACCESSORIES INCLUDE PLASTER FRAMES, RINGS, FLANGES, CANOPIES, STEM HANGERS, AND SUSPENSION STRAPS.
3.

INSTALL LAMPS IN ALL FIXTURES INSTALLED UNDER THIS CONTRACT IN ACCORDANCE WITH THE FIXTURE SCHEDULE ON THE DRAWINGS.
4.

ALL LIGHT FIXTURES SHALL BE UL LISTED.
5.

FIXTURES SHALL BE SECURELY MOUNTED TO ELEMENTS OF THE BUILDING OR TO SUSPENDED CEILING SYSTEMS. WIRE SUPPORTED FROM THE STRUCTURE SHALL BE PROVIDED FOR FIXTURES INSTALLED IN LAY-IN CEILINGS. PROVIDE MEANS OF SUPPORT AS REQUIRED IN NEC ARTICLE 410.16.
6.

FLUSH FIXTURES WITH LIGHT SPILLING BETWEEN FRAME AND CEILING TO HAVE FELT GASKETS INSTALLED BETWEEN TRIM AND CEILING.
7.

ALL BALLASTED FIXTURES SHALL HAVE A DISCONNECTING MEANS AT THE FIXTURE PER THE REQUIREMENTS OF NEC 410.130.

SECTION 28 31 00 FIRE ALARM SYSTEM - VOICE EVACUATION SYSTEM

1.

PROVIDE ALL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE LOCAL, MANUAL AND AUTOMATICALLY ACTUATED, ELECTRICALLY OPERATED, ADDRESSABLE ANNUNCIATED FIRE ALARM SYSTEM WITH BATTERY BACKUP.
2.

THE FIRE ALARM SYSTEM SHALL BE VOICE COMPATIBLE, WITH A VOICE ANNUNCIATION PANEL AND SPEAKER DEVICES LOCATED THROUGHOUT THE BUILDING.
3.

THE FIRE ALARM SYSTEM DEVICES SHALL BE FULLY COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY COMPONENTS AS REQUIRED TO MAKE THE SYSTEM OPERATE AS ONE SYSTEM.
4.

FIRE ALARM INSTALLATION SHALL BE U.L LISTED AND CONFORM TO THE REQUIREMENTS OF NFPA 72, NFPA 101, LOCAL BUILDING CODES, AND THE NEC.
5.

ACTION DEVICES SHALL INCLUDE DUAL ACTION MANUAL PULL STATIONS, SMOKE DETECTORS, DUCT SMOKE DETECTORS, AND WATER FLOW AND TAMPER SWITCHES.
6.

ALARM AND ALERTING DEVICES SHALL BE SPEAKERS WITH VISUAL DISPLAY.
7.

ALL FIRE ALARM JUNCTION BOXES SHALL BE PAINTED RED.
8.

CONTROL FUNCTIONS SHALL INCLUDE AIR HANDLING UNIT SHUTDOWN, RELEASE SECURITY DOORS, & AUTOMATIC NOTIFICATION OF EMERGENCY CENTER.
9.

PROVIDE CONTROL MODULES ON ALL MAGNETICALLY HELD DOORS USED FOR EGRESS.
10.

PROVIDE REQUIRED PHONE LINES TO THE FIRE ALARM PANEL FROM THE TELEPHONE TERMINAL BOARD LOCATION. PHONE LINES SHALL BE RUN IN 3/4" EMT CONDUIT. IN LIEU OF PHONE LINES, A UL AND NFPA 72 COMPLIANT COMMUNICATION DEVICE MAY BE USED TO COMMUNICATE TO THE CENTRAL STATION.
11.

ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS AND THE PROCEDURES FOR MAINTENANCE, INSPECTION, AND TESTING OF FIRE DETECTION, ALARM AND COMMUNICATIONS SYSTEM SHALL BE MAINTAINED AT AN APPROVED, SECURED LOCATION FOR THE LIFE OF THE SYSTEM PER IFC 901.6.2.1. PROVIDE LOCKABLE FIRE ALARM DOCUMENT CABINET MOUNTED ADJACENT TO THE FIRE ALARM PANEL FOR ALL DOCUMENTS, SOFTWARE, ETC. CABINET SHALL BE RED, AND LABELED "FIRE ALARM DOCUMENTS."
12.

THE FIRE ALARM CONTROL PANEL CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM". THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. PER 2019 NFPA 72 10.6.5.2.
13.

CONTRACTOR SHALL PROVIDE FIRE ALARM SHOP DRAWINGS FOR THE BUILDING DEPARTMENT REVIEW AND APPROVAL PRIOR TO THE INSTALLATION OF THE FIRE ALARM SYSTEM.
14.

ALL DEVICES SHALL BE TESTED UPON COMPLETION OF THE INSTALLATION PRIOR TO THE FIRE MARSHAL/BUILDING OFFICIAL WALK-THRU. ALL NON-WORKING DEVICES SHALL BE REPAIRED OR REPLACED.

SECTION 28 31 10 EMERGENCY RESPONDER RADIO COVERAGE

1.

BUILDING SHALL BE TESTED FOR EMERGENCY RESPONDER RADIO COVERAGE.
2.

TESTS SHALL BE PERFORMED AFTER THE INTERIOR AND EXTERIOR WALLS, DOORS, AND WINDOWS HAVE BEEN CONSTRUCTED.
3.

IF THE INTERIOR AND/OR EXTERIOR COVERAGE DOES NOT MEET THE MINIMUM REQUIREMENTS OF THE INTERNATIONAL FIRE CODE SECTION 510, THEN PROVIDE A DISTRIBUTED ANTENNA SYSTEM COMPATIBLE WITH LOCAL EMERGENCY RESPONDER REQUIREMENTS TO BOOST THE SIGNAL TO CODE REQUIRED LEVELS.
4.

SYSTEM DESIGN, DESIGN APPROVAL, INSTALLATION, AND FINAL ACCEPTANCE BY THE AUTHORITIES HAVING JURISDICTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5.

FINAL DEVICE TYPES, QUANTITIES, AND LOCATIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PROVIDE ALL REQUIRED ROUGH-INS, POWER CONNECTIONS, FIRE ALARM SYSTEM MONITORING, BACKUP BATTERIES, AND WIRING PER THE APPROVED PLANS.
6.

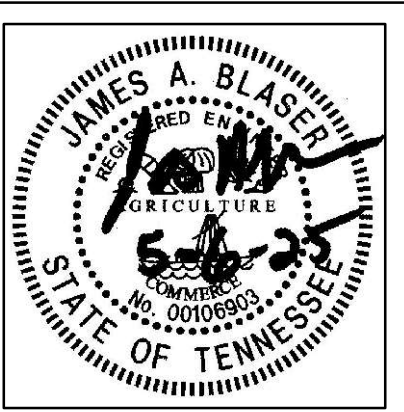
COORDINATE REQUIREMENTS AND DEVICE LOCATIONS WITH OTHER TRADES AND THE GENERAL CONTRACTOR.

7.

INCLUDE FEE FOR TESTING THE BUILDING AS PART OF THE ELECTRICAL BID AND WORST CASE SCENARIO (FULL COVERAGE) PRICING AS A SEPARATE LINE ITEM. THE PRICING WILL BE ADJUSTED AFTER THE TEST RESULTS DETERMINE THE REQUIRED EQUIPMENT.

END OF SPECIFICATIONS

Revisions					
	No.	Date	Description		



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