

# PLAN NOTES:

- RECEPTACLES AND DATA/PHONE DEVICES ARE TO BE MOUNTED AT 10" AFF TO TOP OF BOX, UNLESS OTHERWISE NOTED BY TEXT OR SYMBOL.
- 1-GANG DEEP BOX FOR MESSAGE BOARD, RECESS MOUNT 84" TO CENTER OF BACKBOX AFF. INSTALL 1" CONDUIT WITH BUSHINGS AND PULL STRING STUBBED INTO A 6" X 6" RECESSED BOX INSTALLED 18" AFF BELOW RECEPTION DESK WHERE SHOWN FOR HEAD END.
- SEE ARCH. PLAN ELEVATIONS FOR MICROWAVE LOCATIONS IN CABINETRY.
- PROVIDE AND INSTALL NEMA 3R, NON-FUSED DISCONNECT, SIZED AS SHOWN, UNDER COUNTER, ON CIRCUIT SHOWN, AND MAKE FINAL CONNECTION TO INSTANT WATER HEATER. WH PROVIDED AND INSTALLED BY M.C.
- RECEP. MTD. WITHIN CASING OF EWC. COORDINATE WITH PLUMBER.
- FLOW / TAMPER AT SPRINKLER FLOOR BRANCH. REUSE EXISTING IF IN GOOD CONDITION.
- EXISTING SMOKE DETECTORS FOR ELEVATOR RECALL TO REMAIN.
- COORDINATE CONTROLS FOR OPERATION OF FAN WITH MECHANICAL CONTRACTOR. PROVIDE TIME DELAY SWITCH.
- NEW CONDUIT UP TO 480V DISTRIBUTION PANEL IN PENTHOUSE VIA 3RD FLOOR ELECTRICAL ROOM FOR PANEL "H2DP". VERIFY ROUTING AND LOCATION IN PENTHOUSE.
- FOR AHU 2-6, PROVIDE (1) 3/4" CONDUIT TO CONDENSER UNIT ON ROOF FOR CONTROLS, AND (1) 1" CONDUIT TO CONDENSER FOR POWER.
- DEVICES TO BE RED IN COLOR TO DENOTE "EMERGENCY GENERATOR POWER". EACH QUAD RECEPTACLE SHALL BE ON A DEDICATED CIRCUIT, CONNECT TO CIRCUITS: 1, 3, 5, 7, 9 & 11 ON PANEL "GL2A". SEE I.T. ROOM BACKBOARD DETAIL ON DETAIL SHEET.
- PROVIDE JUNCTION BOX, WITH CONDUCTORS ON CIRCUIT SHOWN, ABOVE CEILING, WITH 20A RATED SWITCH FOR 24V VAV BOX TRANSFORMER. TRANSFORMER CONNECTION AND ALL 24V CONNECTIONS BY TEMPERATURE CONTROL CONTRACTOR. VAV BOXES AND TRANSFORMER PROVIDED BY OTHERS.
- PROVIDE JUNCTION BOX, WITH CONDUCTORS ON CIRCUIT SHOWN, ABOVE CEILING FOR CEILING MOUNTED PROJECTOR. PROVIDE DATA W/ CONDUIT AND PULLSTRING BACK TO IT ROOM. PROJECTOR PROVIDED BY OWNER.
- 6" X 6" RECESSED BOX 18" AFF WITH (2) 1" CONDUITS UP TO 6" X 6" BOX IN CEILING SPACE AT PROJECTOR.
- TIE TO EXISTING BUILDING GROUND BY METHODS RECOMMENDED IN NFPA 70 NEC SECTION 250.

# GENERAL NOTES:

DASHED WALLS REPRESENT 36" HIGH WALLS.

COORDINATE RECEPTACLE LOCATIONS WITH ARCHITECTURAL PLANS.

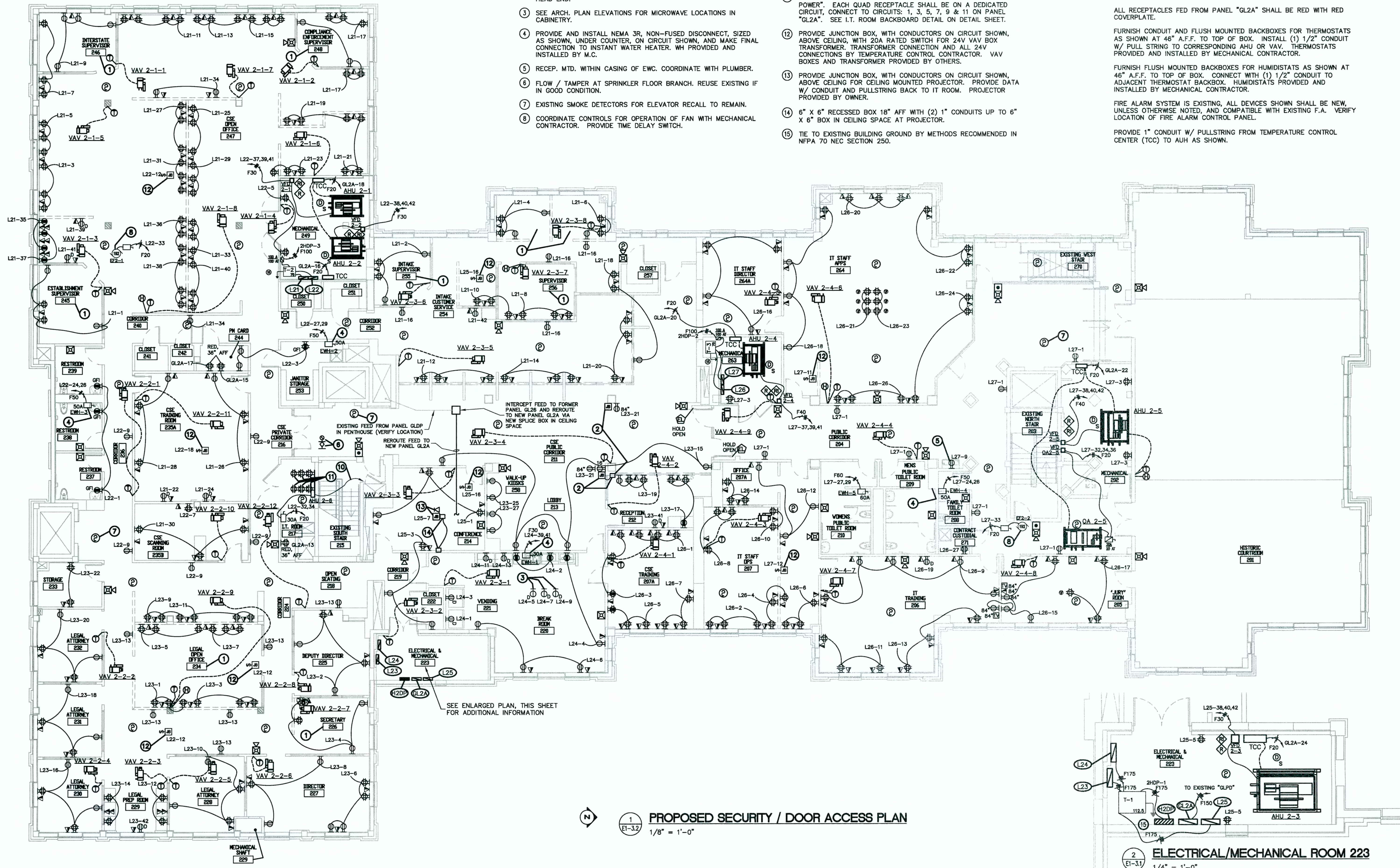
ALL RECEPTACLES FED FROM PANEL "GL2A" SHALL BE RED WITH RED COVERPLATE.

FURNISH CONDUIT AND FLUSH MOUNTED BACKBOXES FOR THERMOSTATS AS SHOWN AT 46" A.F.F. TO TOP OF BOX. INSTALL (1) 1/2" CONDUIT W/ PULL STRING TO CORRESPONDING AHU OR VAV. THERMOSTATS PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.

FURNISH FLUSH MOUNTED BACKBOXES FOR HUMIDISTATS AS SHOWN AT 46" A.F.F. TO TOP OF BOX. CONNECT WITH (1) 1/2" CONDUIT TO ADJACENT THERMOSTAT BACKBOX. HUMIDISTATS PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.

FIRE ALARM SYSTEM IS EXISTING. ALL DEVICES SHOWN SHALL BE NEW, UNLESS OTHERWISE NOTED, AND COMPATIBLE WITH EXISTING F.A. VERIFY LOCATION OF FIRE ALARM CONTROL PANEL.

PROVIDE 1" CONDUIT W/ PULLSTRING FROM TEMPERATURE CONTROL CENTER (TCC) TO AHU AS SHOWN.



**PROPOSED SECURITY / DOOR ACCESS PLAN**  
1/8" = 1'-0"

**ELECTRICAL/MECHANICAL ROOM 223**  
1/4" = 1'-0"

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PROPOSED SECOND FLOOR INTERIOR OFFICE REMODEL FOR:  
**MANATEE COUNTY HISTORIC COURTHOUSE**  
**Second Floor & Outside Air Project**  
1115 MANATEE AVENUE WEST  
BRADENTON, FLORIDA

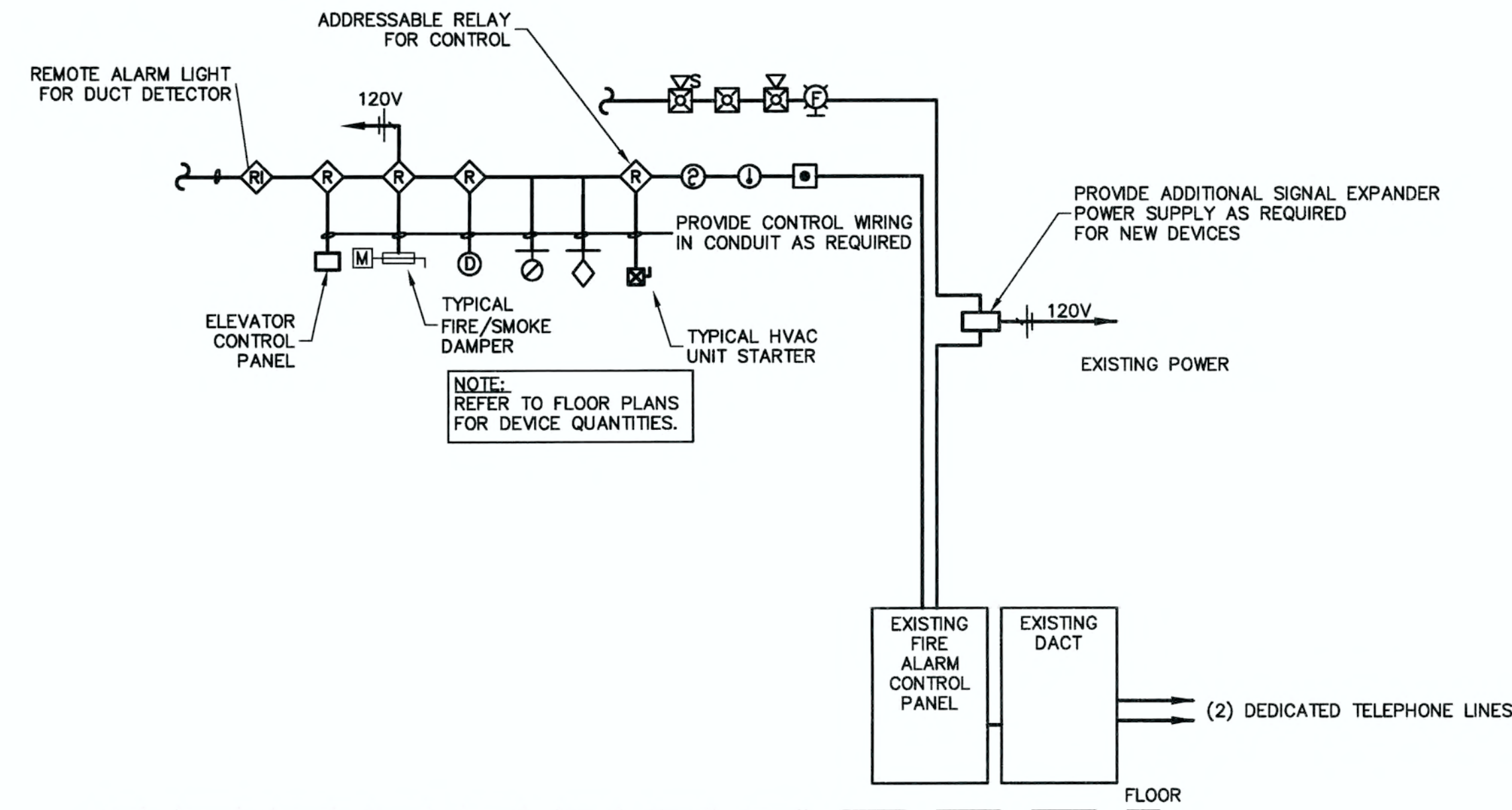
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REVISIONS  
2 - MARCH 8, 2012

**E1-3.1**

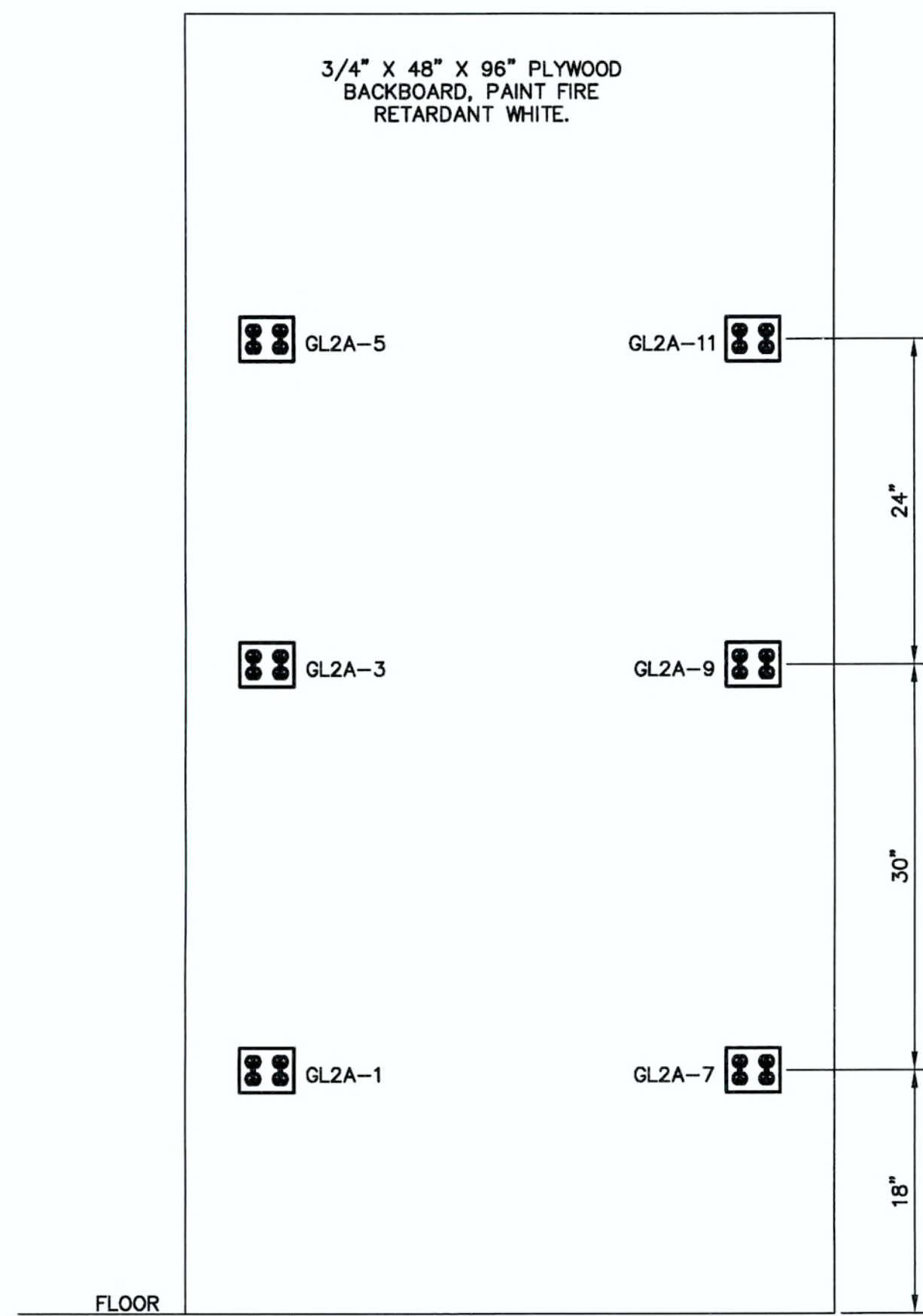




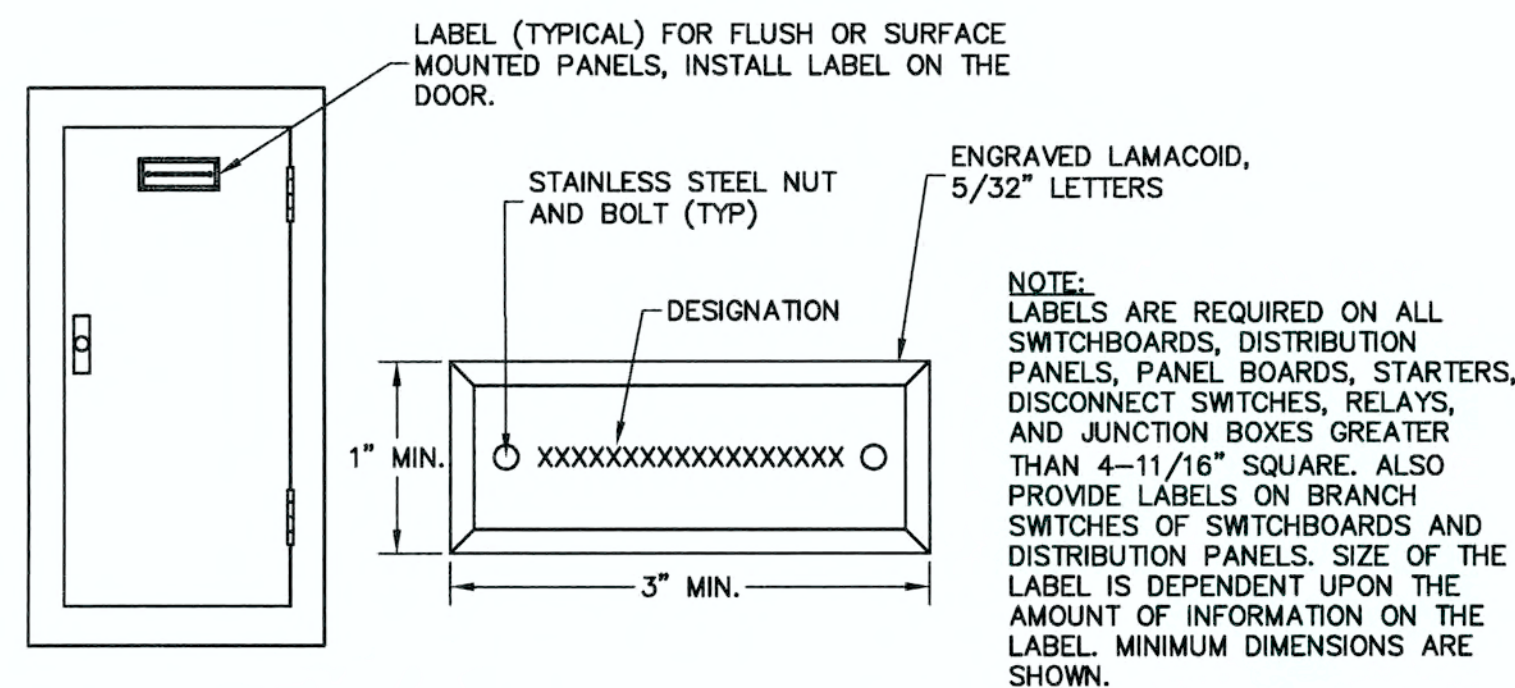




2 ADDRESSABLE FIRE ALARM SYSTEM SCHEMATIC  
NOT TO SCALE



3 I.T. ROOM BACKBOARD DETAIL  
NOT TO SCALE

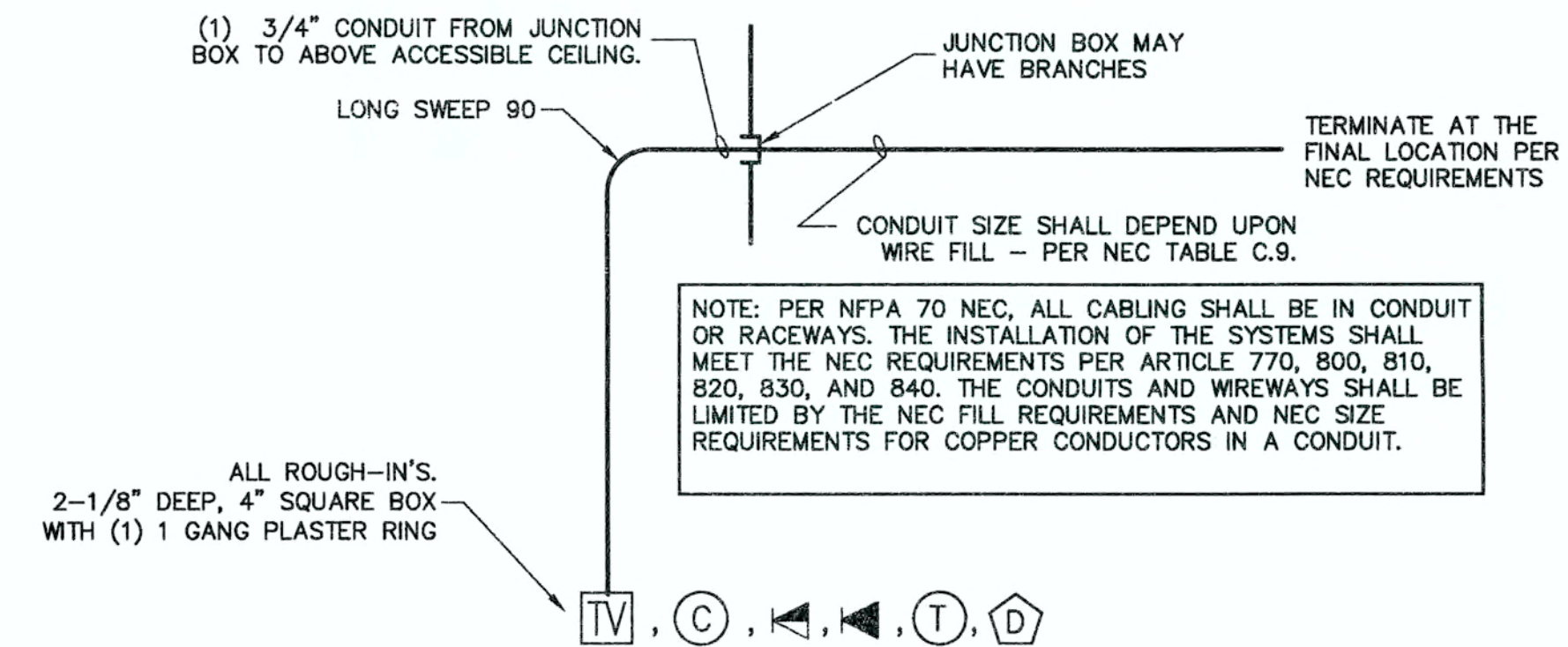


STANDARD COLORS:  
1. NORMAL POWER- BLACK BACKGROUND, WHITE LETTERS  
2. EMERGENCY POWER- RED BACKGROUND, WHITE LETTERING  
3. IN ADDITION TO THE FUNCTION LABELS, PROVIDE LABELS IDENTIFYING ALL "MAIN SERVICE LABEL DISCONNECTS"- RED BACKGROUND, WHITE LETTERING

4 EQUIPMENT LABELING DETAIL  
NOT TO SCALE

| LIGHT FIXTURE SCHEDULE |                                                                                                                                             |                 |                        |                          |                                                  |                    |                                     |                                                            |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------|--------------------------|--------------------------------------------------|--------------------|-------------------------------------|------------------------------------------------------------|
| TYPE                   | DESCRIPTION                                                                                                                                 | VOLT            | LAMP NUMBER AND TYPE   | MOUNT                    | LENS                                             | SERIES             | ACCEPTABLE MANUFACTURERS            | REMARKS                                                    |
| A2                     | NOMINALLY 2'x4' RECESSED FLUORESCENT TROFFER, CODE GAUGE STEEL HOUSING, WHITE FINISH, SPECIFICATION GRADE.                                  | 120/277<br>Ø120 | (2) 32W T8             | CEILING RECESSED T-BAR   | PATTERN NO. 12, 0.125" NOMINAL PRISMATIC ACRYLIC | 2T08 26T8 26R8 JTB | DAYBRITE LITHONIA METALUX COLUMBIA  | ELECTRONIC BALLAST                                         |
| A3                     | NOMINALLY 2'x4' RECESSED FLUORESCENT TROFFER, CODE GAUGE STEEL HOUSING, WHITE FINISH, SPECIFICATION GRADE.                                  | 120/277<br>Ø120 | (3) 32W T8             | CEILING RECESSED DRYWALL | PATTERN NO. 12, 0.125" NOMINAL PRISMATIC ACRYLIC | 2T08 26T8 26R8 JTB | DAYBRITE LITHONIA METALUX COLUMBIA  | ELECTRONIC BALLAST                                         |
| A4                     | NOMINALLY 2'x4' RECESSED FLUORESCENT TROFFER, CODE GAUGE STEEL HOUSING, WHITE FINISH, SPECIFICATION GRADE.                                  | 120/277<br>Ø120 | (4) 32W T8             | CEILING RECESSED LAY-IN  | PATTERN NO. 12, 0.125" NOMINAL PRISMATIC ACRYLIC | 2T08 26T8 26R8 JTB | DAYBRITE LITHONIA METALUX COLUMBIA  | 2 ELECTRONIC BALLAST FOR DUAL SWITCHING (2 OUTER, 2 INNER) |
| B2                     | NOMINALLY 2'x2' RECESSED FLUORESCENT TROFFER, CODE GAUGE STEEL HOUSING, WHITE FINISH, SPECIFICATION GRADE.                                  | 120/277<br>Ø120 | (2) 17W T8             | CEILING RECESSED LAY-IN  | PATTERN NO. 12, 0.125" NOMINAL PRISMATIC ACRYLIC | 2T08 26T8 26R8 JTB | DAYBRITE LITHONIA METALUX COLUMBIA  | ELECTRONIC BALLAST                                         |
| B3                     | NOMINALLY 2'x2' RECESSED FLUORESCENT TROFFER, CODE GAUGE STEEL HOUSING, WHITE FINISH, SPECIFICATION GRADE.                                  | 120/277<br>Ø120 | (3) 17W T8             | CEILING RECESSED LAY-IN  | PATTERN NO. 12, 0.125" NOMINAL PRISMATIC ACRYLIC | 2T08 26T8 26R8 STB | DAYBRITE LITHONIA METALUX COLUMBIA  | 2 ELECTRONIC BALLAST FOR DUAL SWITCHING (2 OUTER, 1 INNER) |
| D                      | 4' FLUORESCENT INDUSTRIAL FIXTURE, CODE GAUGE ROLLED CHANNELS WITH HIGH GLOSS BAKED ENAMEL FINISH, AND SOLID TOP REFLECTOR AND WIRE GUARDS. | 120/277<br>Ø120 | (2) 32W T8             | SURFACE OR CHAIN         | N/A                                              | IA L ICF CSR       | DAYBRITE LITHONIA METALUX COLUMBIA  | ELECTRONIC BALLAST                                         |
| E                      | 12" SQUARE APERTURE / CROSS BAFFLE FLUORESCENT DOWN LIGHT WITH 4-CELL BAFFLE                                                                | 120/277<br>Ø120 | (2) 18W BIA            | RECESSED                 | N/A                                              | SQ012HSQ           | SPECTRUM LITHONIA OMEGA             | ELECTRONIC BALLAST                                         |
| F                      | 4' FLUORESCENT STRIP, DIE-FORMED STEEL CHANNEL, BAKED WHITE ENAMEL.                                                                         | 120/277<br>Ø120 | (2) 32W T8             | SURFACE OR CHAIN         | N/A                                              | T C SSF CS         | DAYBRITE LITHONIA METALUX COLUMBIA  | ELECTRONIC BALLAST                                         |
|                        | EMERGENCY EGRESS LIGHTING WALL UNIT, WHITE FINISH, UL LISTED FOR DAMP LOCATIONS.                                                            | 120             | (2) 5.4W KRYPTON       | WALL                     | N/A                                              | GM2 ELM2 AP25Q     | CHLORIDE LITHONIA SURELITES DUALITE | UL LISTED FIVE YEAR WARRANTY.                              |
|                        | EXIT SIGN, GREEN LED LAMP, WHITE FINISH, SINGLE OR DOUBLE FACE AS SHOWN, BATTERY BACK-UP, PUSH TO TEST FEATURE.                             | 120             | LED                    | SURFACE/CEILING          |                                                  | EG-C2 LHM APX7-6   | CHLORIDE LITHONIA SURELITES DUALITE | WHITE IN COLOR                                             |
|                        | EXIT SIGN / EMERGENCY EGRESS LIGHTING COMBO UNIT, GREEN LED LAMP (EXIT), WHITE FINISH, BATTERY BACK-UP, PUSH TO TEST FEATURE.               | 120             | (2) 5.4W KRYPTON / LED | WALL                     |                                                  | EG3 LHOM AP7       | CHLORIDE LITHONIA SURELITES DUALITE |                                                            |

NOTES:  
1. ALL LIGHT FIXTURES TO BE SUPPLIED WITH LAMPS. LAMPS SHALL BE GE, PHILLIPS, OR OSRAM/SYLVANIA, NO EXCEPTIONS.  
2. FLUORESCENT LAMP COLOR SHALL BE 3500 DEGREES K.  
3. ALL FLUORESCENT FIXTURES SHALL HAVE ELECTRONIC BALLASTS. A SINGLE BALLAST PER FIXTURE MAY BE USED IF NOT DUAL SWITCHED.  
4. ALL BALLASTS SHALL BE DUAL (MULTI) VOLTAGE 120/277 CONNECTED TO THE 120V LEADS UNLESS OTHERWISE NOTED.  
5. MASTER - SATELLITE BALLASTS SHALL NOT BE ALLOWED. ALL FIXTURES SHALL HAVE THE BALLAST INTEGRAL WITH THE FIXTURE.  
6. TROFFER, 2'x2, 2'x4, 1'x4 ETC. FIXTURES SHALL BE SUPPORTED BY THE WIRES AT 4 CORNERS OF FIXTURE AND HUNG FROM BUILDING STEEL.  
7. INSTALL A MINIMUM OF 2 HURRICANE CLIPS PER TROFFER FIXTURE CONNECTED TO T-GRID.  
8. FIXTURES SHOWN ON THE PLANS TO HAVE EMERGENCY BATTERY FOR EMERGENCY EGRESS LIGHTING SHALL HAVE A 1000 LUMEN BATTERY.



1 LOW VOLTAGE ROUGH-IN  
NOT TO SCALE

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1115 MANATEE AVENUE WEST  
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JOE NO. 2434 M  
DATE JAN 5, 2012  
DRAWN JCH  
CHECKED JCH  
REVISIONS  
2 - MARCH 8, 2013

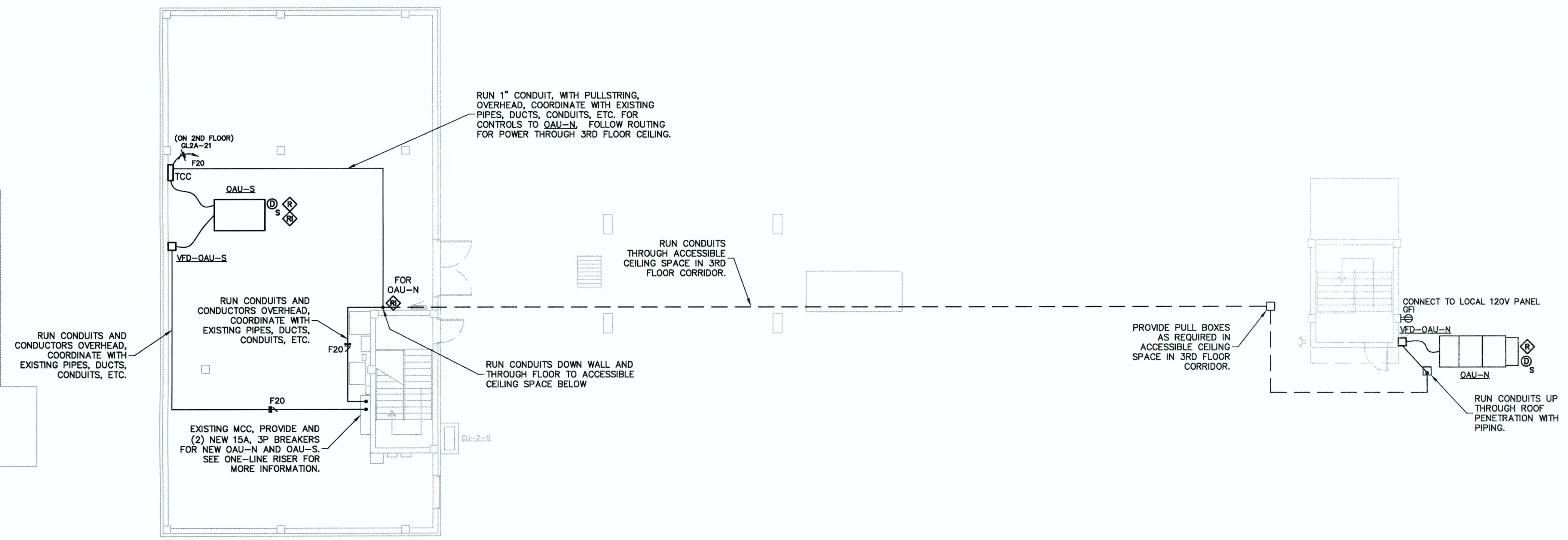
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| PANELBOARD SCHEDULE     |                                                    | DESIGNATION: |           | 3DHP         |      | LOCATION:      |       | ROOM 223        |              | MAINS:          |           | 300 A MB   |                  |                                             |    |
|-------------------------|----------------------------------------------------|--------------|-----------|--------------|------|----------------|-------|-----------------|--------------|-----------------|-----------|------------|------------------|---------------------------------------------|----|
|                         |                                                    | VOLTAGE:     |           | 480Y/277     |      | PHASE:         |       | 3 PHASE, 4 WIRE |              | BUS SIZE:       |           | 400 AMP    |                  |                                             |    |
|                         |                                                    |              |           |              |      |                |       |                 |              | PANEL MOUNTING: |           | SURFACE    |                  |                                             |    |
|                         |                                                    |              |           |              |      |                |       |                 |              | ALL BREAKERS:   |           | 35,000 AIC |                  |                                             |    |
| CKT NO.                 | LOAD DESCRIPTION                                   | LOAD CODE    | CONN. KVA | BREAKER AMPS | POLE | CONNECTED LOAD |       |                 | BREAKER AMPS | POLE            | CONN. KVA | LOAD CODE  | LOAD DESCRIPTION | CKT NO.                                     |    |
| 1                       | 112.5 KVA H.M. XFMR (T-1)<br>(Pannels L23,L24,L25) | P            | 17.57     | 175          | 3    | 29.99          | A     | B               | C            | 100             | 3         | 12.43      | P                | 75 KVA H.M. XFMR (T-3)<br>(Pannels 26 & 27) | 2  |
|                         | *                                                  | P            | 17.85     |              |      |                |       | 30.34           | 31.22        |                 |           | 13.37      | P                | *                                           |    |
| 3                       | 75 KVA H.M. XFMR (T-2)<br>(Pannels 21 & 22)        | P            | 15.11     | 100          | 3    | 15.11          |       |                 |              |                 |           |            |                  |                                             | 4  |
|                         | *                                                  | P            | 15.16     |              |      |                |       | 15.16           |              |                 |           |            |                  |                                             |    |
|                         |                                                    | P            | 14.37     |              |      |                |       |                 | 14.37        |                 |           |            |                  |                                             |    |
| 5                       |                                                    |              |           |              |      | 0.00           |       |                 |              |                 |           |            |                  |                                             | 6  |
|                         |                                                    |              |           |              |      |                |       | 0.00            |              |                 |           |            |                  |                                             |    |
| 7                       |                                                    |              |           |              |      | 0.00           |       |                 | 0.00         |                 |           |            |                  |                                             | 8  |
|                         |                                                    |              |           |              |      |                |       | 0.00            |              |                 |           |            |                  |                                             |    |
| 9                       |                                                    |              |           |              |      | 0.00           |       |                 | 0.00         |                 |           |            |                  |                                             | 10 |
|                         |                                                    |              |           |              |      |                |       | 0.00            |              |                 |           |            |                  |                                             |    |
| 11                      |                                                    |              |           |              |      | 0.00           |       |                 | 0.00         |                 |           |            |                  |                                             | 12 |
|                         |                                                    |              |           |              |      |                |       | 0.00            |              |                 |           |            |                  |                                             |    |
| 13                      |                                                    |              |           |              |      | 0.00           |       |                 | 0.00         | 30              | 3         |            | TVSS             | *                                           | 14 |
|                         |                                                    |              |           |              |      |                |       | 0.00            |              |                 |           |            |                  | *                                           |    |
|                         |                                                    |              |           |              |      | 45.10          | 45.50 | 45.59           | KVA          |                 |           |            |                  |                                             |    |
| TOTAL CONNECTED AMPS:   |                                                    |              |           |              |      | 164.58 AMPS    |       |                 | 162.81       | 164.26          | 164.58    | AMPS       |                  |                                             |    |
| TOTAL CONNECTED LOAD:   |                                                    |              |           |              |      | 138.19 KVA     |       |                 |              |                 |           |            |                  |                                             |    |
| TOTAL DEMAND AMPS:      |                                                    |              |           |              |      | 164.58 AMPS    |       |                 |              |                 |           |            |                  |                                             |    |
| TOTAL DEMAND LOAD:      |                                                    |              |           |              |      | 138.19 KVA     |       |                 |              |                 |           |            |                  |                                             |    |
| LOAD CODES:             |                                                    |              |           |              |      |                |       |                 |              |                 |           |            |                  |                                             |    |
| L= LIGHTING             |                                                    |              |           |              |      |                |       |                 |              |                 |           |            |                  |                                             |    |
| R= RECEPTACLES          |                                                    |              |           |              |      |                |       |                 |              |                 |           |            |                  |                                             |    |
| M= MECHANICAL/EQUIPMENT |                                                    |              |           |              |      |                |       |                 |              |                 |           |            |                  |                                             |    |
| C= COMPUTER             |                                                    |              |           |              |      |                |       |                 |              |                 |           |            |                  |                                             |    |
| K= KITCHEN              |                                                    |              |           |              |      |                |       |                 |              |                 |           |            |                  |                                             |    |
| P= PANELBOARD           |                                                    |              |           |              |      |                |       |                 |              |                 |           |            |                  |                                             |    |

| PANELBOARD SCHEDULE     |                        | DESIGNATION: L23<br>LOCATION: ROOM 223<br>VOLTAGE: 208Y/120<br>PHASE: 3 PHASE, 4 WIRE |           | MAINS: 150 A MB<br>BUS SIZE: 225 AMP<br>PANEL MOUNTING: SURFACE<br>ALL BREAKERS: 10,000 AIC |   |                      |      |                   |    |           |           |                  |                |    |
|-------------------------|------------------------|---------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------|---|----------------------|------|-------------------|----|-----------|-----------|------------------|----------------|----|
| CKT NO.                 | LOAD DESCRIPTION       | LOAD CODE                                                                             | CONN. KVA | BREAKER AMPS POLE                                                                           |   | CONNECTED LOAD A B C |      | BREAKER AMPS POLE |    | CONN. KVA | LOAD CODE | LOAD DESCRIPTION | CKT NO.        |    |
| 1                       | Recepta RM 234         | R                                                                                     | 1.08      | 20                                                                                          | 1 | 2.16                 |      |                   | 20 | 1         | 1.08      | R                | Recepta RM 225 | 2  |
| 3                       | Recepta RM 234         | R                                                                                     | 1.08      | 20                                                                                          | 1 | 2.16                 |      |                   | 20 | 1         | 1.08      | R                | Recepta RM 226 | 4  |
| 5                       | Recepta RM 234         | R                                                                                     | 1.08      | 20                                                                                          | 1 |                      |      | 2.16              | 20 | 1         | 1.08      | R                | Recepta RM 227 | 6  |
| 7                       | Recepta RM 234         | R                                                                                     | 1.08      | 20                                                                                          | 1 | 1.80                 |      |                   | 20 | 1         | 0.72      | R                | Recepta RM 227 | 8  |
| 9                       | Recepta RM 234         | R                                                                                     | 1.08      | 20                                                                                          | 1 | 2.16                 |      |                   | 20 | 1         | 1.08      | R                | Recepta RM 228 | 10 |
| 11                      | Recepta RM 234         | R                                                                                     | 1.08      | 20                                                                                          | 1 |                      |      | 1.80              | 20 | 1         | 0.72      | R                | Recepta RM 229 | 12 |
| 13                      | Recepta RM 234,224,218 | R                                                                                     | 1.08      | 20                                                                                          | 1 | 1.80                 |      |                   | 20 | 1         | 0.72      | R                | Recepta RM 229 | 14 |
| 15                      | Recepta RM 213, 211    | R                                                                                     | 0.90      | 20                                                                                          | 1 | 1.98                 |      |                   | 20 | 1         | 1.08      | R                | Recepta RM 230 | 16 |
| 17                      | Recepta RM 212         | R                                                                                     | 0.90      | 20                                                                                          | 1 |                      |      | 1.98              | 20 | 1         | 1.08      | R                | Recepta RM 231 | 18 |
| 19                      | Recepta RM 212         | R                                                                                     | 0.90      | 20                                                                                          | 1 | 1.98                 |      |                   | 20 | 1         | 1.08      | R                | Recepta RM 232 | 20 |
| 21                      | Recept RM 213 (MB)     | R                                                                                     | 0.64      | 20                                                                                          | 1 | 1.26                 |      |                   | 20 | 1         | 0.72      | R                | Recepta RM 233 | 22 |
| 23                      |                        |                                                                                       |           |                                                                                             |   |                      |      | 0.00              | 20 | 1         |           |                  |                | 24 |
| 25                      | Walk-up Kloaka RM258   | R                                                                                     | 0.54      | 20                                                                                          | 1 | 0.54                 |      |                   | 20 | 1         |           |                  |                | 26 |
| 27                      | Walk-up Kloaka RM258   | R                                                                                     | 0.54      | 20                                                                                          | 1 | 0.54                 |      |                   | 20 | 1         |           |                  |                | 28 |
| 29                      |                        |                                                                                       |           |                                                                                             |   |                      |      | 0.00              | 20 | 1         |           |                  |                | 30 |
| 31                      |                        |                                                                                       |           |                                                                                             |   | 0.00                 |      |                   | 20 | 1         |           |                  |                | 32 |
| 33                      |                        |                                                                                       |           |                                                                                             |   |                      | 0.00 |                   | 20 | 1         |           |                  |                | 34 |
| 35                      |                        |                                                                                       |           |                                                                                             |   |                      |      | 0.00              | 20 | 1         |           |                  |                | 36 |
| 37                      |                        |                                                                                       |           |                                                                                             |   | 0.00                 |      |                   | 20 | 1         |           |                  |                | 38 |
| 39                      |                        |                                                                                       |           |                                                                                             |   |                      | 0.00 |                   | 20 | 1         |           |                  |                | 40 |
| 41                      | Copier RM 212          | R                                                                                     | 1.20      | 20                                                                                          | 1 |                      |      | 2.40              | 20 | 1         | 1.20      | R                | Copier RM 229  | 42 |
| TOTAL CONNECTED AMPS:   |                        |                                                                                       |           | 69.50 AMPS                                                                                  |   | 69.00 67.50 69.50    |      | AMPS              |    |           |           |                  |                |    |
| TOTAL CONNECTED LOAD:   |                        |                                                                                       |           | 24.72 KVA                                                                                   |   |                      |      |                   |    |           |           |                  |                |    |
| TOTAL DEMAND AMPS:      |                        |                                                                                       |           | 34.76 AMPS                                                                                  |   |                      |      |                   |    |           |           |                  |                |    |
| TOTAL DEMAND LOAD:      |                        |                                                                                       |           | 12.36 KVA                                                                                   |   |                      |      |                   |    |           |           |                  |                |    |
| LOAD CODES:             |                        |                                                                                       |           |                                                                                             |   |                      |      |                   |    |           |           |                  |                |    |
| L= LIGHTING             |                        |                                                                                       |           |                                                                                             |   |                      |      |                   |    |           |           |                  |                |    |
| R= RECEPTACLES          |                        |                                                                                       |           |                                                                                             |   |                      |      |                   |    |           |           |                  |                |    |
| M= MECHANICAL/EQUIPMENT |                        |                                                                                       |           |                                                                                             |   |                      |      |                   |    |           |           |                  |                |    |
| C= COMPUTER             |                        |                                                                                       |           |                                                                                             |   |                      |      |                   |    |           |           |                  |                |    |
| K= KITCHEN              |                        |                                                                                       |           |                                                                                             |   |                      |      |                   |    |           |           |                  |                |    |
| P= PANELBOARD           |                        |                                                                                       |           |                                                                                             |   |                      |      |                   |    |           |           |                  |                |    |

| PANELBOARD SCHEDULE     |                    | DESIGNATION: L26<br>LOCATION: ROOM 263<br>VOLTAGE: 208Y/120<br>PHASE: 3 PHASE, 4 WIRE |           |            |      | MAINS: 150 A MB<br>BUS SIZE: 225 AMP<br>PANEL MOUNTING: SURFACE<br>ALL BREAKERS: 10,000 AIC |      |       |         |      |           |           |                    |         |
|-------------------------|--------------------|---------------------------------------------------------------------------------------|-----------|------------|------|---------------------------------------------------------------------------------------------|------|-------|---------|------|-----------|-----------|--------------------|---------|
| CKT NO.                 | LOAD DESCRIPTION   | LOAD CODE                                                                             | CONN. KVA | BREAKER    |      | CONNECTED LOAD                                                                              |      |       | BREAKER |      | CONN. KVA | LOAD CODE | LOAD DESCRIPTION   | CKT NO. |
|                         |                    |                                                                                       |           | AMPS       | POLE | A                                                                                           | B    | C     | AMPS    | POLE |           |           |                    |         |
| 1                       | Recepta RM 273     | R                                                                                     | 1.08      | 20         | 1    | 2.16                                                                                        |      |       | 20      | 1    | 1.08      | R         | Recepta RM 207     | 2       |
| 3                       | Recepta RM 273     | R                                                                                     | 1.08      | 20         | 1    |                                                                                             | 2.16 |       | 20      | 1    | 1.08      | R         | Recepta RM 207     | 4       |
| 5                       | Recepta RM 273     | R                                                                                     | 1.08      | 20         | 1    |                                                                                             |      | 2.16  | 20      | 1    | 1.08      | R         | Recepta RM 207     | 6       |
| 7                       | Recepta RM 273     | R                                                                                     | 1.08      | 20         | 1    | 2.16                                                                                        |      |       | 20      | 1    | 1.08      | R         | Recepta RM 207     | 8       |
| 9                       | Recepta RM 206     | R                                                                                     | 1.08      | 20         | 1    |                                                                                             | 2.16 |       | 20      | 1    | 1.08      | R         | Recepta RM 207     | 10      |
| 11                      | Recepta RM 206     | R                                                                                     | 1.08      | 20         | 1    |                                                                                             |      | 1.62  | 20      | 1    | 0.54      | R         | Recepta RM 207,272 | 12      |
| 13                      | Recepta RM 206     | R                                                                                     | 1.08      | 20         | 1    | 2.16                                                                                        |      |       | 20      | 1    | 1.08      | R         | Recepta RM 272     | 14      |
| 15                      | Recepta RM 206,206 | R                                                                                     | 1.08      | 20         | 1    |                                                                                             | 2.16 |       | 20      | 1    | 1.08      | R         | Recepta RM 275     | 16      |
| 17                      | Recepta RM 205     | R                                                                                     | 1.08      | 20         | 1    |                                                                                             |      | 2.16  | 20      | 1    | 1.08      | R         | Recepta RM 276     | 18      |
| 19                      | Smart Board Rm 206 | R                                                                                     | 0.50      | 20         | 1    | 1.58                                                                                        |      |       | 20      | 1    | 1.08      | R         | Recepta RM 276     | 20      |
| 21                      | Recepta RM 276     | R                                                                                     | 1.08      | 20         | 1    |                                                                                             | 2.16 |       | 20      | 1    | 1.08      | R         | Recepta RM 276     | 22      |
| 23                      | Recepta RM 276     | R                                                                                     | 1.08      | 20         | 1    |                                                                                             |      | 2.16  | 20      | 1    | 1.08      | R         | Recepta RM 276     | 24      |
| 25                      | Spare              |                                                                                       |           | 20         | 1    | 1.08                                                                                        |      |       | 20      | 1    | 1.08      | R         | Recepta RM 276     | 26      |
| 27                      | Recepta RM 271     | R                                                                                     | 0.36      | 20         | 1    |                                                                                             | 0.36 |       | 20      | 1    |           |           | Spare              | 28      |
| 29                      | Spare              |                                                                                       |           | 20         | 1    |                                                                                             |      | 0.00  | 20      | 1    |           |           | Spare              | 30      |
| 31                      | Spare              |                                                                                       |           | 20         | 1    | 0.00                                                                                        |      |       | 20      | 1    |           |           | Spare              | 32      |
| 33                      |                    |                                                                                       |           |            |      |                                                                                             | 0.00 |       |         |      |           |           |                    | 34      |
| 35                      |                    |                                                                                       |           |            |      |                                                                                             |      | 0.00  |         |      |           |           |                    | 36      |
| 37                      |                    |                                                                                       |           |            |      | 0.00                                                                                        |      |       |         |      |           |           |                    | 38      |
| 39                      |                    |                                                                                       |           |            |      |                                                                                             | 0.00 |       |         |      |           |           |                    | 40      |
| 41                      |                    |                                                                                       |           |            |      |                                                                                             |      | 0.00  |         |      |           |           |                    | 42      |
| TOTAL CONNECTED AMPS:   |                    |                                                                                       |           | 76.17 AMPS |      | 76.17                                                                                       |      | 75.00 | 67.50   |      | AMPS      |           |                    |         |
| TOTAL CONNECTED LOAD:   |                    |                                                                                       |           | 26.24 KVA  |      |                                                                                             |      |       |         |      |           |           |                    |         |
| TOTAL DEMAND AMPS:      |                    |                                                                                       |           | 38.08 AMPS |      |                                                                                             |      |       |         |      |           |           |                    |         |
| TOTAL DEMAND LOAD:      |                    |                                                                                       |           | 13.12 KVA  |      |                                                                                             |      |       |         |      |           |           |                    |         |
| LOAD CODES:             |                    |                                                                                       |           |            |      |                                                                                             |      |       |         |      |           |           |                    |         |
| L= LIGHTING             |                    |                                                                                       |           |            |      |                                                                                             |      |       |         |      |           |           |                    |         |
| R= RECEPTACLES          |                    |                                                                                       |           |            |      |                                                                                             |      |       |         |      |           |           |                    |         |
| M= MECHANICAL/EQUIPMENT |                    |                                                                                       |           |            |      |                                                                                             |      |       |         |      |           |           |                    |         |
| C= COMPUTER             |                    |                                                                                       |           |            |      |                                                                                             |      |       |         |      |           |           |                    |         |
| K= KITCHEN              |                    |                                                                                       |           |            |      |                                                                                             |      |       |         |      |           |           |                    |         |
| P= PANELBOARD           |                    |                                                                                       |           |            |      |                                                                                             |      |       |         |      |           |           |                    |         |

| PANELBOARD SCHEDULE     |                       | DESIGNATION: L21   |           | ROOM 249        |      | MAINS: 150 A MB         |              |        |           |             |                   |         |
|-------------------------|-----------------------|--------------------|-----------|-----------------|------|-------------------------|--------------|--------|-----------|-------------|-------------------|---------|
|                         |                       | LOCATION: 208Y/120 |           | 3 PHASE, 4 WIRE |      | BUS SIZE: 225 AMP       |              |        |           |             |                   |         |
|                         |                       | PHASE:             |           |                 |      | PANEL MOUNTING: SURFACE |              |        |           |             |                   |         |
|                         |                       |                    |           |                 |      | 10,000 AIC              |              |        |           |             |                   |         |
| CKT NO.                 | LOAD DESCRIPTION      | LOAD CODE          | CONN. KVA | BREAKER AMPS    | POLE | CONNECTED LOAD A B C    | BREAKER AMPS | POLE   | CONN. KVA | LOAD CODE   | LOAD DESCRIPTION  | CKT NO. |
| 1                       | Recepts - RM 245      | R                  | 0.90      | 20              | 1    | 1.98                    | 20           | 1      | 1.08      | R           | Recepts - RM 255  | 2       |
| 3                       | Recepts - RM 247      | R                  | 1.08      | 20              | 1    | 2.16                    | 20           | 1      | 1.08      | R           | Recepts - RM 254B | 4       |
| 5                       | Recepts - RM 247      | R                  | 1.08      | 20              | 1    | 1.98                    | 20           | 1      | 0.90      | R           | Recepts - RM 254B | 6       |
| 7                       | Recepts - RM 246,247  | R                  | 1.08      | 20              | 1    | 2.16                    | 20           | 1      | 1.08      | R           | Recepts - RM 254  | 8       |
| 9                       | Recepts - RM 246,247  | R                  | 1.08      | 20              | 1    | 2.16                    | 20           | 1      | 1.08      | R           | Recepts - RM 256  | 10      |
| 11                      | Recepts - RM 247      | R                  | 1.08      | 20              | 1    | 2.16                    | 20           | 1      | 1.08      | R           | Recepts - RM 254A | 12      |
| 13                      | Recepts - RM 247      | R                  | 1.08      | 20              | 1    | 2.16                    | 20           | 1      | 1.08      | R           | Recepts - RM 254A | 14      |
| 15                      | Recepts - RM 247      | R                  | 1.08      | 20              | 1    | 1.80                    | 20           | 1      | 0.72      | R           | Recepts - RM 254A | 16      |
| 17                      | Recepts - RM 248      | R                  | 1.08      | 20              | 1    | 1.80                    | 20           | 1      | 0.72      | R           | Recepts - RM 254  | 18      |
| 19                      | Recepts - RM 247, 248 | R                  | 1.08      | 20              | 1    | 2.16                    | 20           | 1      | 1.08      | R           | Recepts - RM 254  | 20      |
| 21                      | Recepts - RM 247      | R                  | 1.08      | 20              | 1    | 1.45                    | 20           | 1      | 0.37      | R           | Smart Board RM235 | 22      |
| 23                      | Recepts - RM 247      | R                  | 1.08      | 20              | 1    | 1.45                    | 20           | 1      | 0.37      | R           | Smart Board RM235 | 24      |
| 25                      | Recepts - RM 247      | R                  | 1.08      | 20              | 1    | 2.16                    | 20           | 1      | 1.08      | R           | Recepts - RM 235  | 26      |
| 27                      | Recepts - RM 247      | R                  | 1.08      | 20              | 1    | 2.16                    | 20           | 1      | 1.08      | R           | Recepts - RM 235  | 28      |
| 29                      | Recepts - RM 247      | R                  | 1.08      | 20              | 1    | 2.16                    | 20           | 1      | 1.08      | R           | Recepts - RM 234  | 30      |
| 31                      | Recepts - RM 247      | R                  | 1.08      | 20              | 1    | 1.08                    | 20           | 1      |           |             | Spare             | 32      |
| 33                      | Recepts - RM 247      | R                  | 1.08      | 20              | 1    | 2.16                    | 20           | 1      | 1.08      | R           | Recepts - RM 247  | 34      |
| 35                      | Copy area recepts 247 | R                  | 0.36      | 20              | 1    | 1.44                    | 20           | 1      | 1.08      | R           | Recepts - RM 247  | 36      |
| 37                      | Copy area recepts 247 | R                  | 0.36      | 20              | 1    | 1.44                    | 20           | 1      | 1.08      | R           | Recepts - RM 247  | 38      |
| 39                      | Copier                | R                  | 1.20      | 20              | 1    | 2.28                    | 20           | 1      | 1.08      | R           | Recepts - RM 247  | 40      |
| 41                      | Copier                | R                  | 1.20      | 20              | 1    | 2.40                    | 20           | 1      | 1.20      | R           | Copier RM 264A    | 42      |
| TOTAL CONNECTED AMPS:   |                       |                    |           | 118.08 AMPS     |      | 109.50                  |              | 118.08 |           | 111.58 AMPS |                   |         |
| TOTAL CONNECTED LOAD:   |                       |                    |           | 40.70 KVA       |      |                         |              |        |           |             |                   |         |
| TOTAL DEMAND AMPS:      |                       |                    |           | 59.04 AMPS      |      |                         |              |        |           |             |                   |         |
| TOTAL DEMAND LOAD:      |                       |                    |           | 20.35 KVA       |      |                         |              |        |           |             |                   |         |
| LOAD CODES:             |                       |                    |           |                 |      |                         |              |        |           |             |                   |         |
| L= LIGHTING             |                       |                    |           |                 |      |                         |              |        |           |             |                   |         |
| R= RECEPTACLES          |                       |                    |           |                 |      |                         |              |        |           |             |                   |         |
| M= MECHANICAL/EQUIPMENT |                       |                    |           |                 |      |                         |              |        |           |             |                   |         |
| C= COMPUTER             |                       |                    |           |                 |      |                         |              |        |           |             |                   |         |
| K= KITCHEN              |                       |                    |           |                 |      |                         |              |        |           |             |                   |         |
| P= PANELBOARD           |                       |                    |           |                 |      |                         |              |        |           |             |                   |         |



**GENERAL NOTES:**

PROVIDE AND INSTALL (2) NEW 15A, 3 POLE CIRCUIT BREAKERS IN EXISTING MCC FOR NEW OUTSIDE AIR HANDLING UNITS BEING INSTALLED ON ROOF. NEW BREAKERS SHALL BE COMPATIBLE WITH MCC, MATCH EXISTING KAIC RATING.

CONDUITS FOR OAHU-N SHALL RUN IN THE CEILING SPACE ABOVE THE 3RD FLOOR CORRIDOR, VERIFY ROUTING. COORDINATE TIME OF WORK IN CORRIDOR WITH OWNER.

PROVIDE 1" CONDUIT W/ PULLSTRING FROM TEMPERATURE CONTROL CENTER (TCC) TO AUH AS SHOWN.

FIRE SEAL ALL RATED PENETRATIONS. FIELD VERIFY RATING OF WALLS AND FLOORS THAT ARE PENETRATED.

**PROPOSED ROOF PLAN**  
1/8" = 1'-0"



**ATP ENGINEERING SOUTH, PL**  
BRADENTON, FLORIDA  
ENGR. BUSINESS #8908  
941-751-6485

**JERRY N. ZOLLER AIA**  
ARCHITECT / PLANNER P.A.  
814 14th STREET W. BRADENTON, FL 34205 TEL: (941) 748-4465

PROPOSED SECOND FLOOR INTERIOR OFFICE REMODEL FOR:  
**MANATEE COUNTY HISTORIC COURTHOUSE**  
**Second Floor & Outside Air Project**  
1115 MANATEE AVENUE WEST  
BRADENTON FLORIDA

|           |               |
|-----------|---------------|
| JOB NO.   | 2434 M        |
| DATE      | JAN 15, 2012  |
| DRAWN     | CH            |
| CHECKED   | CH            |
| REVISIONS |               |
| 2 -       | MARCH 8, 2013 |

**E2-3.3**

