

| RELIEF GRAVITY HOOD SCHEDULE |              |         |     |                 |       |
|------------------------------|--------------|---------|-----|-----------------|-------|
| MARK                         | MANUFACTURER | MODEL   | CFM | CONNECTION SIZE | NOTES |
| RGH1                         | GREENHECK    | GRSR-8  | 230 | 8"              | 1,2   |
| RGH2                         | GREENHECK    | GRSR-16 | 830 | 16"             | 1,2   |
| RGH3                         | GREENHECK    | GRSR-12 | 555 | 12"             | 1,2   |
| RGH4                         | GREENHECK    | GRSR-16 | 990 | 16"             | 1,2   |
| RGH5                         | GREENHECK    | GRSR-12 | 550 | 12"             | 1,2   |
| RGH6                         | GREENHECK    | GRSR-16 | 670 | 16"             | 1,2   |
| RGH7                         | GREENHECK    | GRSR-16 | 790 | 16"             | 1,2   |
| RGH8                         | GREENHECK    | GRSR-16 | 665 | 16"             | 1,2   |
| RGH9                         | GREENHECK    | GRSR-16 | 680 | 16"             | 1,2   |
| RGH10                        | GREENHECK    | GRSR-16 | 770 | 16"             | 1,2   |
| RGH11                        | GREENHECK    | GRSR-16 | 700 | 16"             | 1,2   |

NOTES:  
1. SEE DETAIL 2 ON SHEET M207.  
2. PROVIDE GRAVITY HOOD WITH GRAVITY DAMPER, ROOF CURB, AND ALUMINUM BIRDSCREEN.

| INTAKE GRAVITY HOOD SCHEDULE |              |         |     |                 |       |
|------------------------------|--------------|---------|-----|-----------------|-------|
| MARK                         | MANUFACTURER | MODEL   | CFM | CONNECTION SIZE | NOTES |
| IGH1                         | GREENHECK    | GRSI-8  | 200 | 8"              | 1,2   |
| IGH2                         | GREENHECK    | GRSI-12 | 525 | 12"             | 1,2   |
| IGH3                         | GREENHECK    | GRSI-16 | 635 | 16"             | 1,2   |
| IGH4                         | GREENHECK    | GRSI-16 | 745 | 16"             | 1,2   |
| IGH5                         | GREENHECK    | GRSI-10 | 300 | 10"             | 1,2   |
| IGH6                         | GREENHECK    | GRSI-12 | 630 | 12"             | 1,2   |
| IGH7                         | GREENHECK    | GRSI-8  | 155 | 8"              | 1,2   |
| IGH8                         | GREENHECK    | GRSI-10 | 395 | 10"             | 1,2   |
| IGH9                         | GREENHECK    | GRSI-16 | 735 | 16"             | 1,2   |
| IGH10                        | GREENHECK    | GRSI-16 | 735 | 16"             | 1,2   |
| IGH11                        | GREENHECK    | GRSI-16 | 665 | 16"             | 1,2   |

NOTES:  
1. SEE DETAIL 2 ON SHEET M207.  
2. PROVIDE GRAVITY HOOD WITH GRAVITY DAMPER, ROOF CURB, AND ALUMINUM BIRDSCREEN.

| DIFFUSER & GRILLE SCHEDULE |   |                |
|----------------------------|---|----------------|
| CALLOUT                    | DESCRIPTION                                   | FACE SIZE (IN) |
| EA                         | 14X14 EXHAUST GRILL W/ 8" RUNOUT              | 14x14          |
| EB                         | 14X14 EXHAUST GRILL W/ 10" RUNOUT             | 14x14          |
| EC                         | 20X20 EXHAUST GRILL W/ 12" RUNOUT             | 20x20          |
| ED                         | 20X20 EXHAUST GRILL W/ 14" RUNOUT             | 20x20          |
| RA                         | 14X14 RETURN GRILL W/ 10" RUNOUT              | 14x14          |
| RC                         | 20X20 RETURN GRILL W/ 14" RUNOUT              | 20x20          |
| SA                         | 6X6 SUPPLY CEILING DIFFUSER WITH 6" RUNOUT    | 6x6            |
| SB                         | 9X9 SUPPLY CEILING DIFFUSER WITH 8" RUNOUT    | 9x9            |
| SC                         | 12X12 SUPPLY CEILING DIFFUSER WITH 10" RUNOUT | 12x12          |
| SE                         | 12X12 SUPPLY SIDEWALL GRILL WITH 12" RUNOUT   | 12x12          |

NOTES:  
1. PROVIDE RADIATION DAMPER IN ALL CEILING DIFFUSERS

| LOUVER SCHEDULE |                                  |           |                                |
|-----------------|----------------------------------|-----------|--------------------------------|
| CALLOUT         | DESCRIPTION                      | SIZE (IN) | NOTE                           |
| L1              | KITCHEN MAKEUP AIR INTAKE LOUVER | 24x24     | PROVIDE ALUMINUM INSECT SCREEN |

**HVAC SPECIFICATIONS**  
GENERAL

- INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE NORTH CAROLINA STATE MECHANICAL CODE AND ALL OTHER APPLICABLE LOCAL AND NATIONAL CODES.
- CONTRACTOR SHALL PROVIDE ALL LICENSES, FEES, PERMITS, INSURANCE, ETC., REQUIRED FOR THE EXECUTION OF THIS WORK.
- INSTALLATION SHALL COMPLY WITH OSHA STANDARDS.
- MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR PENETRATIONS AND PATCHING.
- CONTRACTOR SHALL PROVIDE PLEATED FILTERS WITH MINIMUM MERV 11 RATING. FILTERS INSTALLED AT UNITS.
- ALL EQUIPMENT SHALL BE AS DESIGNATED ON THE PLANS OR EQUAL.
- ALL HEATING, COOLING, AND VENTILATION EQUIPMENT, UPON COMPLETION, SHALL BE TESTED FOR AT LEAST ONE (1) DAY AND SHALL BE SHOWN TO BE IN SATISFACTORY CONDITION ON BOTH HEATING AND COOLING.
- DUCT MOUNTED SMOKE DETECTORS SHALL BE PROVIDE IN RETURN AS SHOWN ON PLAN PER CODE.

**DUCT**

- ALL DUCT SHALL BE FABRICATED AND SUPPORTED IN ACCORDANCE WITH APPLICABLE SMACNA STANDARDS.
- ALL SUPPLY AND RETURN DUCT SHALL HAVE A MINIMUM PRESSURE CLASSIFICATION OF 2" W.G.
- ALL DUCT SHALL BE UL LABELED FOR CLASS I AIR DUCT MEETING NFPA 90 FLAME SPREAD AND SMOKE GENERATION REQUIREMENTS.
- ALL DUCT SIZES SHOWN ON PLANS ARE INSIDE CLEAR DIMENSIONS.
- ALL TURNS SHALL UTILIZE SINGLE THICKNESS TURNING VANES OR RADIUS BEND.
- ALL TAKE-OFFS SHALL BE 45 DEGREE TYPE.
- DUCT MATERIALS AND REQUIREMENTS.

**7.1. HVAC SUPPLY AND RETURN DUCTS.**

- 7.1.1. ABOVE ACOUSTICAL CEILING – SINGLE-WALL GALVANIZED SHEET METAL WITH 2" FOIL-BACKED INSULATION UNLESS OTHERWISE NOTED OR FLEX DUCT WITH MINIMUM R6 INSULATION VALUE (ATCO UPC #036 OR EQUAL) MAY BE USED ON RUNOUTS.
- 7.1.2. OUTSIDE AIR INTAKES SHALL BE GALVANIZED SHEETMETAL WITH 2" FOIL-BACKED INSULATION.

**7.2. KITCHEN HOOD & ASSOCIATED DUCTS**

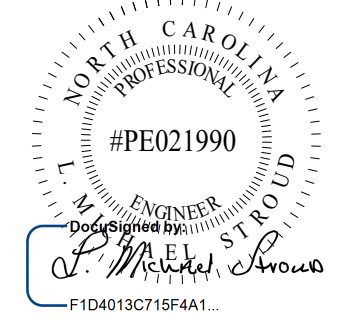
- 7.2.1. SHALL BE IN ACCORDANCE WITH SECTIONS 506-509 OF THE MECHANICAL CODE AND APPLICABLE NFPA REQUIREMENTS FOR A TYPE I COMMERCIAL KITCHEN HOOD. PROVIDE CLEANOUTS AND MAINTAIN CLEARANCES TO COMBUSTIBLE MATERIALS IN ACCORDANCE WITH NORTH CAROLINA MECHANICAL CODE AND FIRE CODE. ALL DUCTS SHALL BE FACTORY-BUILT GREASE DUCTS LISTED AND LABELED IN ACCORDANCE WITH UL 197B OR CONTINUOUSLY COVERED ON ALL SIDES WITH A LISTED AND LABELED FIELD APPLIED GREASE DUCT ENCLOSURE MATERIAL EVALUATED IN ACCORDANCE WITH ASTM E 2336 AND LISTED AND LABELED AS SUCH.

**TESTING & BALANCING**

- TESTING & BALANCING OF ALL HVAC SYSTEMS SHALL BE AS SHOWN ON THE PLANS
- THIS WORK SHALL BE PERFORMED BY A CERTIFIED TEST AND BALANCE COMPANY AND TAB REPORTS SHALL BE SUBMITTED FOR APPROVAL.
- TOLERANCES
  - SUPPLY AND RETURN AIR FLOWS SHALL BE BALANCED TO WITHIN +/-10% OF FLOWS INDICATED ON PLANS
  - EXHAUST & OUTSIDE AIR FLOWS SHALL BE BALANCED TO WITHIN +/-5% OF FLOWS SHOWN ON PLANS.

| HVAC LEGEND |                                       |
|-------------|---------------------------------------|
|             | SIDEWALL SUPPLY GRILL                 |
|             | SIDEWALL RETURN GRILL                 |
|             | CEILING SUPPLY GRILL                  |
|             | CEILING RETURN GRILL                  |
|             | EXHAUST GRILL                         |
|             | RECTANGULAR RIGID DUCT                |
|             | ROUND RIGID DUCT                      |
|             | ROUND FLEXIBLE DUCT                   |
|             | MANUAL BALANCING DAMPER               |
|             | 90 DEGREE BEND WITH TURNING VANES     |
|             | DUCT MOUNTED SMOKE DETECTOR           |
|             | BACK DRAFT DAMPER                     |
|             | 1½ HR. FIRE DAMPER, LISTED PER UL 555 |

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRISVILLE, NC 27557  
(336) 247-7479  
LICENSE NO. C-0647



**L. MICHAEL STROUD, P.E.**

20 JANUARY, 2023

Matthew A Conte, AIA  
NC. REG.#15129



NC License #1919  
Mailing Address:  
424 E. Central Blvd. #542  
Orlando, FL 32801  
www.eleven8architecture.com  
Physical Address:  
1011 E. Colonial Dr. #307  
Orlando, FL 32803  
407.745.5301  
© Copyright 2020 ELEVEN8 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**

40 RAWL'S CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN8 PROJECT LEAD:  
**MATTHEW A. CONTE**  
407.745.5301  
mconte@eleven8architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**M001**  
MECHANICAL COVER

**COPYRIGHT STATEMENT**  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.



### PACKAGE TERMINAL HEAT PUMP SCHEDULE

| SERVICE AREA           |                  | PRIVATE UNITS | SEMI-PRIVATE UNITS |
|------------------------|------------------|---------------|--------------------|
| MARK                   |                  | PTHP1         | PTHP2              |
| MANUFACTURER           | DEIGN BASIS      | AMANA HEH124H | AMANA HEH124H      |
| SUPPLY AIR             |                  | 370           | 370                |
| MIN. OUTSIDE AIR (CFM) |                  | 30            | 40                 |
| COOLING                | CAPACITY (MBH)   | 12.0          | 12.0               |
|                        | EFFICIENCY (EER) | 11.5          | 11.5               |
| HEATING                | CAPACITY (MBH)   | 11.4          | 11.4               |
|                        | EFFICIENCY (COP) | 3.2           | 3.2                |
| ELECTRICAL             | AUX. HEAT        | 2.1KW         | 2.1KW              |
|                        | VOLTS / PHASE    | 208/1         | 208/1              |
|                        | MCA              | 14.1          | 14.1               |
|                        | MOCP             | 15            | 15                 |

- NOTES:
1. PTHP UNITS SHALL BE HEAT PUMPS (R410A) WITH ELECTRIC AUX. STRIP HEAT.
  2. PROVIDE UNITS WITH CORD AND PLUG.
  3. PROVIDE UNITS WITH WALL COLLAR.
  4. PROVIDE UNITS WITH ARCHITECTURAL GRILLE.
  5. CONTRACTOR SHALL INSTALL SET SCREW IN OUTSIDE AIR DAMPER TO PREVENT ACCIDENTAL CLOSING AFTER AIR BALANCING HAS BEEN COMPLETED.

### EXHAUST FAN SCHEDULE

| SERVICE AREA     | MEN (107) & WOMEN (108) | BEAUTY (160), BATHING (179), JAN. (180), & VISITOR TOILET (181) | LAUNDRY (172)          | UNITS (122, 123, 124, 125, 126, 127, 128, 129, 131) | ELECTRICAL ROOM (169) | MECHANICAL ROOM (168) |
|------------------|-------------------------|---|------------------------|---|-----------------------|-----------------------|
| MARK             | EF1                     | EF2   | EF3                    | EF4   | EF5                   | EF6                   |
| FAN TYPE         | INLINE CABINET          | INLINE CABINET  | INLINE CABINET         | INLINE CABINET                                      | ROOF UPBLAST EXHAUST  | ROOF UPBLAST EXHAUST  |
| MANUFACTURER     | DEIGN BASIS             | GREENHECK CSP-A390-VG   | GREENHECK CSP-A1050-VG | GREENHECK CSP-A1050-VG                              | GREENHECK CUE-099-VG  | GREENHECK CUE-099-VG  |
| EXHAUST AIR      |                         | 230   | 830                    | 555   | 990                   | 400                   |
| E.S.P. (in. H2O) |                         | 0.375   | 0.375                  | 0.375   | 0.375                 | 0.500                 |
| ELECTRICAL       | HP                      |   |                        |   | 1/4                   | 1/4                   |
|                  | VOLTS / PHASE           | 115/1   | 115/1                  | 115/1   | 115/1                 | 115/1                 |
|                  | AMPS                    | 1.45  | 3.85                   | 3.53  | 3.85                  | 5.8                   |
| NOTES            |                         | 1,2,3,4,5,6   | 1,2,3,4,5,6            | 1,2,3,4,5,6   | 1,2,3,4               | 1,2,3,7,8,9           |

- NOTES:
1. EQUAL BY COOK OR PENN ALSO ACCEPTABLE
  2. VARI GREEN DIAL ON EXTERIOR OF FAN HOUSING.
  3. UL LISTED FOR POWER VENTILATORS.
  4. PROVIDE SPRING ISOLATORS AND BRACKET.
  5. PROVIDE NEMA-1 TOGGLE SWITCH.
  6. PROVIDE INLINE BACKDRAFT DAMPER.
  7. SEE DETAIL 1 ON SHEET M207.
  8. CONTROLLED BY THERMOSTAT.
  9. PROVIDE FAN WITH 12" CURB.

### ELECTRIC HEATER SCHEDULE

| SERVICE AREA | ELECTRICAL ROOM (169)  | MECHANICAL ROOM (168)  |
|--------------|------------------------|------------------------|
| MARK         | EUH1                   | EUH2                   |
| TYPE         | FAN-FORCED WALL HEATER | FAN-FORCED WALL HEATER |
| MANUFACTURER | DEIGN BASIS            | QMARK LFK404           |
|              | ALTERNATE 1            | RAYWALL                |
|              | ALTERNATE 2            | MARKEL                 |
| WATTS        | 3,000                  | 3,000                  |
| ELECTRICAL   | VOLTS / PHASE          | 208/1                  |
|              | AMPS                   | 14.4                   |
| NOTES        | 1, 2                   | 1, 2                   |

- NOTES:
1. UNIT MOUNTED THERMOSTAT.
  2. PROVIDE SURFACE MOUNTING FRAME FOR SEMI RECESSED INSTALLATION.

### HEAT PUMP SCHEDULE

| OUTDOOR UNIT        |                               | HP1               | HP2               | HP3               | HP4               | HP5               | HP6               | HP8               | HP9               | HP10              | HP11              | HP12              |           |
|---------------------|-------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------|
| MARK                | TRANE                         | TRANE             | TRANE             | TRANE             | TRANE             | TRANE             | TRANE             | TRANE             | TRANE             | TRANE             | TRANE             | TRANE             |           |
| MANUFACTURER        |                               |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |           |
| MODEL               | 4TWR6060N1                    | 4TWR4024N1        | 4TWR4024N1        | 4TWR4024N1        | 4TWR4024N1        | 4TWR6060N1        | 4TWR6060N1        | 4TWR6060N1        | 4TWR6060N1        | 4TWR4030N1        | 4TWR4048N1        | 4TWR4048N1        |           |
| DESCRIPTION         | 2 STAGE HEAT PUMP             | 1 STAGE HEAT PUMP | 1 STAGE HEAT PUMP | 1 STAGE HEAT PUMP | 2 STAGE HEAT PUMP | 1 STAGE HEAT PUMP | 2 STAGE HEAT PUMP | 2 STAGE HEAT PUMP | 2 STAGE HEAT PUMP | 1 STAGE HEAT PUMP | 1 STAGE HEAT PUMP | 1 STAGE HEAT PUMP |           |
| NOMINAL UNIT SIZE   | 5 TON                         | 2 TON             | 2 TON             | 2 TON             | 4 TON             | 3.5 TON           | 5 TON             | 5 TON             | 4 TON             | 2.5 TON           | 4 TON             | 4 TON             |           |
| ELECTRIC            | Volts / Phase                 | 208/1             | 208/1             | 208/1             | 208/1             | 208/1             | 208/1             | 208/1             | 208/1             | 208/1             | 208/1             | 208/1             |           |
|                     | MCA                           | 37                | 15                | 15                | 15                | 28                | 24                | 37                | 37                | 26                | 13                | 26                |           |
|                     | MOCP                          | 60                | 25                | 25                | 25                | 45                | 40                | 60                | 60                | 40                | 20                | 40                |           |
| INDOOR UNIT         | MARK                          | AH1               | AH2               | AH3               | AH4               | AH5               | AH6               | AH8               | AH9               | AH10              | AH11              | AH12              |           |
|                     | MANUFACTURER                  | TRANE             | TRANE             | TRANE             | TRANE             | TRANE             | TRANE             | TRANE             | TRANE             | TRANE             | TRANE             | TRANE             |           |
|                     | MODEL                         | GAMB0060M51       | GAMB0042M21       | GAMB0042M21       | GAMB0042M21       | TAMB00C48V41      | GAMB00C42M31      | GAMB00C00M51      | GAMB00C00M51      | GAMB00C48M41      | GAMB00C00M21      | GAMB00C48M41      |           |
|                     | ELECTRIC RESISTANCE HEAT      | 7.20KW @ 208V     | 3.60KW @ 208V     | 3.60KW @ 208V     | 3.60KW @ 208V     | 5.77KW @ 208V     | 5.77KW @ 208V     | 7.20KW @ 208V     | 7.20KW @ 208V     | 5.77KW @ 208V     | 3.60KW @ 208V     | 5.77KW @ 208V     |           |
|                     | ELECTRIC                      | Volts / Phase     | 208/1             | 208/1             | 208/1             | 208/1             | 208/1             | 208/1             | 208/1             | 208/1             | 208/1             | 208/1             | 208/1     |
|                     |                               | MCA               | 53.0              | 25.0              | 25.0              | 25.0              | 42.0              | 40.0              | 53.0              | 53.0              | 42.0              | 25.0              | 42.0      |
|                     |                               | MOCP              | 60                | 25                | 25                | 25                | 45                | 40                | 60                | 60                | 45                | 25                | 45        |
|                     | AIR FLOWS (CFM)               | SUPPLY            | 2,000             | 800               | 790               | 800               | 1,600             | 1,375             | 2,000             | 2,000             | 1,530             | 1,000             | 1,600     |
|                     |                               | RETURN            | 1,800             | 275               | 155               | 55                | 1,300             | 745               | 1,845             | 1,905             | 780               | 285               | 965       |
|                     | INDOOR FAN                    | DESCRIPTION       | ECM MOTOR         | ECM MOTOR         | ECM MOTOR         | ECM MOTOR         | ECM MOTOR         | ECM MOTOR         | ECM MOTOR         | ECM MOTOR         | ECM MOTOR         | ECM MOTOR         | ECM MOTOR |
| MOTOR HP            |                               | 1.00              | 0.33              | 0.33              | 0.33              | 0.75              | 0.50              | 1.00              | 1.00              | 0.75              | 0.33              | 0.75              |           |
| AHRI DATA           | CAPACITY (BTUH)               | 53,500            | 23,200            | 23,200            | 23,200            | 46,000            | 40,000            | 53,500            | 53,500            | 45,500            | 29,200            | 45,500            |           |
|                     | EER/SEER                      | 11.5/14.8         | 12.0/14.6         | 12.0/14.6         | 12.0/14.6         | 12.0/16.0         | 12.0/14.6         | 11.5/14.8         | 11.5/14.8         | 12.0/14.6         | 12.0/14.6         | 12.0/14.6         |           |
| COOLING PERFORMANCE | NET COOLING CAPACITY (BTUH)   | 54,265            | 24,716            | 23,828            | 24,065            | 48,907            | 42,790            | 54,356            | 60,133            | 45,966            | 29,924            | 47,100            |           |
|                     | NET SENSIBLE CAPACITY (BTUH)  | 38,277            | 12,218            | 14,484            | 14,199            | 30,161            | 24,365            | 41,955            | 35,391            | 32,843            | 19,447            | 30,757            |           |
|                     | NET LATENT CAPACITY (BTUH)    | 15,987            | 12,497            | 9,344             | 9,865             | 18,745            | 18,404            | 12,401            | 24,741            | 13,122            | 10,476            | 16,342            |           |
| HEATING PERFORMANCE | HEATING CAPACITY @ 47F (BTUH) | 52,000            | 22,000            | 22,000            | 22,000            | 46,500            | 37,600            | 52,000            | 52,000            | 42,000            | 26,000            | 42,000            |           |
|                     | HEATING CAPACITY @ 17F (BTUH) | 35,200            | 14,400            | 14,400            | 14,400            | 31,000            | 24,600            | 35,200            | 35,200            | 28,000            | 17,200            | 28,000            |           |
|                     | COP @ 47F                     | 3.50              | 3.70              | 3.70              | 3.70              | 3.60              | 3.80              | 3.50              | 3.50              | 3.60              | 3.80              | 3.60              |           |
|                     | COP @ 17F                     | 2.50              | 2.40              | 2.40              | 2.40              | 2.60              | 2.60              | 2.50              | 2.50              | 2.50              | 2.60              | 2.50              |           |

- Notes:
1. Trane is the design basis. Equivalent of other manufacturers also acceptable.
  2. Provide for low ambient temperature cooling.
  3. All air handlers shall have single point electrical connection.
  4. Provide filter rack with MERV13, pleated filter at return of each air handling unit. Provide new filter once construction activity is complete.
  5. Indoor fans shall run continuously.

### DUCTLESS HEAT PUMP SCHEDULE

| OUTDOOR UNIT      |               | HP7                       |        |
|-------------------|---------------|---------------------------|--------|
| MANUFACTURER      |               | MTSUBISHI ELECTRIC        |        |
| MODEL             |               | PLZ-A36KA7                |        |
| DESCRIPTION       |               | HEAT PUMP OUTDOOR UNIT    |        |
| NOMINAL UNIT SIZE |               | 3 TONS                    |        |
| ELECTRIC          | Volts / Phase | 208/230/1                 |        |
|                   | MCA / MOCP    | 25 / 30                   |        |
| INDOOR UNITS      |               | IJ7                       |        |
| Description       |               | WALL MOUNTED UNIT         |        |
| MANUFACTURER      |               | MTSUBISHI ELECTRIC        |        |
| MODEL             |               | PKA-A36KA7                |        |
| ELECTRIC          | Volts / Phase |                           |        |
|                   | MCA / MOCP    | POWERED FROM OUTDOOR UNIT |        |
| PERFORMANCE       | COOLING       | CAPACITY (BTUHR)          | 36,000 |
|                   |               | EFFICIENCY (SEER)         | 18.8   |
|                   |               | CAPACITY (BTUHR)          | 40,000 |
|                   | HEATING       | EFFICIENCY (HSPF)         | 9.2    |
|                   |               | COP @ 47F                 | 4.52   |
|                   |               | COP @ 17F                 | 2.85   |

- NOTES:
1. PROVIDE WIRELESS REMOTE CONTROLLER.

### ENERGY RECOVERY VENTILATOR SCHEDULE

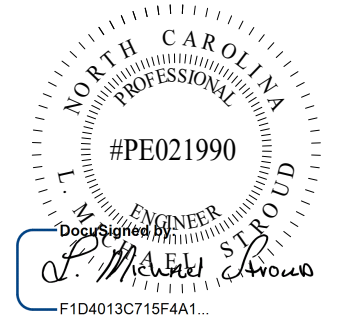
| MARK             | ERV2                            | ERV3           | ERV4           | ERV6           | ERV10          | ERV11          | ERV12          |
|------------------|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| MANUFACTURER     | GREENHECK                       | GREENHECK      | GREENHECK      | GREENHECK      | GREENHECK      | GREENHECK      | GREENHECK      |
| MODEL            | MINVENT 750-VG                  | MINVENT 750-VG | MINVENT 750-VG | MINVENT 750-VG | MINVENT 750-VG | MINVENT 750-VG | MINVENT 750-VG |
| UNIT SERVED      | AH2                             | AH3            | AH4            | AH6            | AH10           | AH11           | AH12           |
| OUTSIDE AIR      | AIRFLOW (CFM)                   | 525            | 635            | 745            | 630            | 735            | 665            |
|                  | EXTERNAL STATIC PRESSURE (inwc) | 0.75           | 0.75           | 0.75           | 0.75           | 0.75           | 0.75           |
| EXHAUST AIR      | AIRFLOW (CFM)                   | 550            | 670            | 790            | 665            | 680            | 700            |
|                  | EXTERNAL STATIC PRESSURE (inwc) | 0.75           | 0.75           | 0.75           | 0.75           | 0.75           | 0.75           |
| ROOM EXHAUST AIR | WINTER                          | 72.0           | 75.0           | 72.0           | 72.0           | 72.0           | 72.0           |
|                  | SUMMER                          | 75.0           | 72.0           | 75.0           | 75.0           | 75.0           | 75.0           |
| OUTSIDE AIR      | RELATIVE HUMIDITY (%)           | 35             | 60             | 35             | 60             | 35             | 60             |
|                  | WET BULB (°F)                   | 18.8           | 78.3           | 15.5           | 78.3           | 15.5           | 78.3           |
| SUPPLY AIR       | WET BULB (°F)                   | 15.5           | 78.3           | 15.5           | 78.3           | 15.5           | 78.3           |
|                  | WET BULB (°F)                   | 62.5           | 78.3           | 61.2           | 78.7           | 60.1           | 79.0           |
| ASHRAE 90.1 ERR  | WINTER                          | 81.0           | 81.7           | 78.5           | 79.4           | 76.4           | 77.4           |
|                  | SUMMER                          | 78.5           | 79.4           | 76.4           | 77.4           | 78.6           | 79.5           |
| EATR (%)         | OUTSIDE AIR MOTOR HP            | 4.9            | 3.2            | 3.7            | 3.2            | 2.8            | 3.4            |
|                  | EXHAUST AIR MOTOR HP            | 0.75           | 0.75           | 0.75           | 0.75           | 0.75           | 0.75           |
| ELECTRIC         | Volts / Phase                   | 208/1          | 208/1          | 208/1          | 208/1          | 208/1          | 208/1          |
|                  | MCA                             | 12.5           | 12.5           | 12.5           | 12.5           | 12.5           | 12.5           |
|                  | MOCP                            | 15             | 15             | 15             | 15             | 15             | 15             |
|                  | MOCP                            | 15             | 15             | 15             | 15             | 15             | 15             |

- NOTES:
1. ENERGY RECOVERY UNITS SHALL BE INTERLOCKED WITH SERVING AIR HANDLING UNIT.
  2. ALL FAN MOTORS SHALL BE VARI GREEN MOTORS WITH SPEED DAL.
  3. FANS SHALL RUN CONTINUOUSLY.

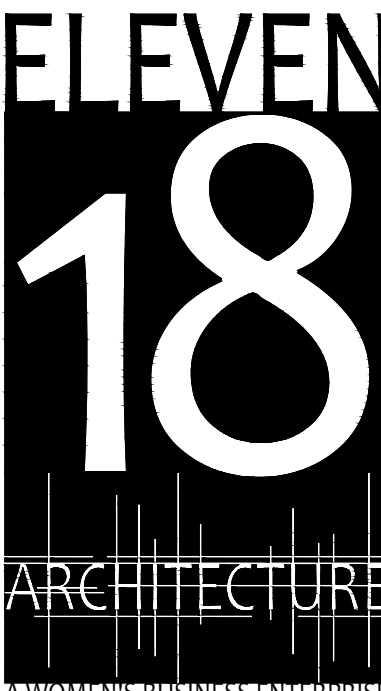
COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MOKHEAD CITY, NC 28557  
(252) 247-7479 LICENSE NO. C-0647

**L. MICHAEL STROUD, P.E.**



20 JANUARY, 2023



NC License #1919  
Mailing Address:  
424 E. Central Blvd, #542  
Orlando, FL 32805  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32805  
407.755.5300

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
**MATTHEW A. CONTE**  
407-745-5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         |           | REVISION 1       |
| 2         | 2/13/2023 | REVISION 2       |

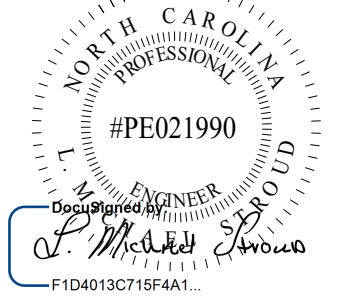
**M002**  
HVAC SCHEDULES



**VENTILATION SUMMARY**

| ROOM ID | ROOM DESCRIPTION          | AREA (SF)[A2] | OCCUPANT DENSITY (# PER 1000SF) | OCCUPANT LOAD (PEOPLE) [Pz] | PEOPLE OUTDOOR AIR     |                    | AREA OUTDOOR AIR   |                    | TOTAL OUTDOOR AIR REQUIRED (CFM) [PzRp*A2Ra] | DESIGN OUTDOOR AIR PROVIDED BY AH (CFM) | DESIGN OUTDOOR AIR PROVIDED BY PTHP (CFM) | TOTAL DESIGN OUTDOOR AIR (CFM) | EXHAUST RATE REQUIRED (CFM PER SF) | EXHAUST REQUIRED (CFM) | DESIGN EXHAUST AIR (CFM) |
|---------|---------------------------|---------------|---------------------------------|-----------------------------|------------------------|--------------------|--------------------|--------------------|--|---|---|--------------------------------|------------------------------------|------------------------|--------------------------|
|         |                           |               |                                 |                             | RATE (CFM/PERSON) [Rp] | TOTAL (CFM) [PzRp] | RATE (CFM/SF) [Ra] | TOTAL (CFM) [A2Ra] |  |   |   |                                |                                    |                        |                          |
| 100     | VESTIBULE                 | 75            | 0                               | 0                           | 0.0                    | 0                  | 0.06               | 5                  | 5  | 5                                       | 0   | 5                              | 0                                  | 0                      | 0                        |
| 101     | LOBBY                     | 247           | 30                              | 8                           | 5.0                    | 40                 | 0.06               | 15                 | 55   | 55                                      | 0   | 55                             | 0                                  | 0                      | 0                        |
| 102     | RECEPTION                 | 99            | 5                               | 1                           | 5.0                    | 5                  | 0.06               | 6                  | 11   | 15                                      | 0   | 15                             | 0                                  | 0                      | 0                        |
| 103     | ADMIN. OFFICE             | 123           | 5                               | 1                           | 5.0                    | 5                  | 0.06               | 7                  | 12   | 15                                      | 0   | 15                             | 0                                  | 0                      | 0                        |
| 105     | MARKETING OFFICE          | 176           | 5                               | 1                           | 5.0                    | 5                  | 0.06               | 11                 | 16   | 20                                      | 0   | 20                             | 0                                  | 0                      | 0                        |
| 106     | BUSINESS OFFICE           | 209           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 13                 | 23   | 25                                      | 0   | 25                             | 0                                  | 0                      | 0                        |
| 107     | MEN'S RESTROOM            | 54            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 108                    | 115                      |
| 108     | WOMEN'S RESTROOM          | 54            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 108                    | 115                      |
| 110/111 | LOUNGE/BISTRO             | 954           | 5                               | 5                           | 5.0                    | 5                  | 0.06               | 57                 | 62   | 65                                      | 0   | 65                             | 0                                  | 0                      | 0                        |
| 112     | RESIDENT LAUNDRY          | 70            | 0                               | 0                           | 0.0                    | 0                  | 0.06               | 4                  | 4  | 70                                      | 0   | 70                             | 2                                  | 140                    | 150                      |
| 113     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 113R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 114     | CLEAN LINEN               | 71            | 0                               | 0                           | 0.0                    | 0                  | 0.06               | 4                  | 4  | 5                                       | 0   | 5                              | 0                                  | 0                      | 0                        |
| 115     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 115R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 116     | ACTIVITIES OFFICE         | 118           | 5                               | 1                           | 5.0                    | 5                  | 0.06               | 7                  | 12   | 15                                      | 0   | 15                             | 0                                  | 0                      | 0                        |
| 117     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 117R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 118     | ACTIVITIES DIRECTOR       | 103           | 5                               | 1                           | 5.0                    | 5                  | 0.06               | 6                  | 11   | 15                                      | 0   | 15                             | 0                                  | 0                      | 0                        |
| 119     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 119R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 120     | LIVING                    | 553           | 30                              | 17                          | 5.0                    | 85                 | 0.06               | 33                 | 118  | 120                                     | 0   | 120                            | 0                                  | 0                      | 0                        |
| 121     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 121R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 122     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 122R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 123     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 123R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 124     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 124R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 125     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 125R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 126     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 126R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 127     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 127R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 128     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 128R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 129     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 129R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 130     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 130R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 131     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 131R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 132     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 132R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 133     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 133R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 134     | WEST CORRIDOR             | 1131          | 0                               | 0                           | 0.0                    | 0                  | 0.06               | 68                 | 68   | 200                                     | 0   | 200                            | 0                                  | 0                      | 0                        |
| 135     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 135R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 136     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 136R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 137     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 137R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 138     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 138R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 139     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 139R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 140     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 140R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 150     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 150R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 151     | SOUTH CORRIDOR            | 496           | 0                               | 0                           | 0.0                    | 0                  | 0.06               | 30                 | 275  | 0                                       | 0   | 0                              | 0                                  | 0                      | 0                        |
| 152     | EAST CORRIDOR 1           | 724           | 0                               | 0                           | 0.0                    | 0                  | 0.06               | 43                 | 43   | 250                                     | 0   | 250                            | 0                                  | 0                      | 0                        |
| 153     | PRIVATE ROOM              | 235           | 5                               | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 153R    | PRIVATE BATH              | 52            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 154     | SEMI-PRIVATE COMMON SPACE | 114           | 5                               | 1                           | 5.0                    | 5                  | 0.06               | 7                  | 12   | 40                                      | 0   | 40                             | 0                                  | 0                      | 0                        |
| 154R    | SEMI-PRIVATE BATH         | 55            | 0                               | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 110                    | 120                      |
| 154A    | SEMI-PRIVATE ROOM         | 164           | 5                               | 1                           | 5.0                    | 5                  | 0.06               | 10                 | 15   | 0                                       | 40  | 40                             | 0                                  | 0                      | 0                        |
| 154B    | SEMI-PRIVATE ROOM         | 156           | 5                               | 1                           | 5.0                    | 5                  | 0.06               | 9                  | 14   | 0                                       | 40  | 40                             | 0                                  | 0                      | 0                        |
| 155     | STORAGE                   | 93            | 0                               | 0                           | 0.0                    | 0                  | 0.06               | 6                  | 6  | 10                                      | 0   | 10                             | 0                                  | 0                      | 0                        |

**STROUD ENGINEERING, P.A.**  
 422 HWY 24  
 MOKHEAD CITY, NC 28557  
 (252) 247-7479  
 LICENSE NO. C-0647



**L. MICHAEL STROUD, P.E.**

**20 JANUARY, 2023**

Matthew A Conte, AIA  
 NC REG.#15129



NC License #1919  
 Mailing Address:  
 424 E. Central Blvd, #42  
 Orlando, FL 32801  
 www.eleven18architecture.com  
 Physical Address:  
 1011 E. Colonial Dr. #307  
 Orlando, FL 32803  
 407.255.5300  
 © Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
 All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
 40 RAWL'S CLUB RD  
 FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
 MATTHEW A. CONTE  
 407.745.5301  
 mcont@eleven18architecture.com

PROJECT TEAM:  
 Gabriela Salazar  
 Pamela Friday  
 Yuan Ping Lien

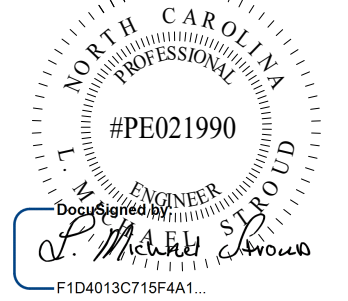
| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

**M003**  
 VENTILATION SUMMARY

COPYRIGHT STATEMENT  
 These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by law.

| VENTILATION SUMMARY CONT. |                           |               |                                  |                             |                        |                    |                    |                    |  |   |   |                                |                                    |                        |                          |
|---------------------------|---------------------------|---------------|----------------------------------|-----------------------------|------------------------|--------------------|--------------------|--------------------|--|---|---|--------------------------------|------------------------------------|------------------------|--------------------------|
| ROOM ID                   | ROOM DESCRIPTION          | AREA (SF)[Az] | OCCUPANT DENSITY (# PER 1000 SF) | OCCUPANT LOAD (PEOPLE) [Pz] | PEOPLE OUTDOOR AIR     |                    | AREA OUTDOOR AIR   |                    | TOTAL OUTDOOR AIR REQUIRED (CFM) [PzRp*AzRa] | DESIGN OUTDOOR AIR PROVIDED BY AH (CFM) | DESIGN OUTDOOR AIR PROVIDED BY PTHP (CFM) | TOTAL DESIGN OUTDOOR AIR (CFM) | EXHAUST RATE REQUIRED (CFM PER SF) | EXHAUST REQUIRED (CFM) | DESIGN EXHAUST AIR (CFM) |
|                           |                           |               |                                  |                             | RATE (CFM/PERSON) [Rp] | TOTAL (CFM) [PzRp] | RATE (CFM/SF) [Ra] | TOTAL (CFM) [AzRa] |  |   |   |                                |                                    |                        |                          |
| 156                       | CLEAN LINEN               | 81            | 0                                | 0                           | 0.0                    | 0                  | 0.06               | 5                  | 5  | 0                                       | 0   | 0                              | 0                                  | 0                      | 0                        |
| 157                       | SEMI-PRIVATE COMMON SPACE | 114           | 5                                | 1                           | 5.0                    | 5                  | 0.06               | 7                  | 12   | 40                                      | 0   | 40                             | 0                                  | 0                      | 0                        |
| 157R                      | SEMI-PRIVATE BATH         | 55            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 110                    | 120                      |
| 157A                      | SEMI-PRIVATE ROOM         | 164           | 5                                | 1                           | 5.0                    | 5                  | 0.06               | 10                 | 15   | 0                                       | 40  | 40                             | 0                                  | 0                      | 0                        |
| 157B                      | SEMI-PRIVATE ROOM         | 156           | 5                                | 1                           | 5.0                    | 5                  | 0.06               | 9                  | 14   | 0                                       | 40  | 40                             | 0                                  | 0                      | 0                        |
| 350                       | DINING                    | 600           | 70                               | 32                          | 7.5                    | 236                | 0.18               | 108                | 344  | 345                                     | 0   | 350                            | 0                                  | 0                      | 0                        |
| 159                       | SERVERY                   | 200           | 5                                | 1                           | 7.5                    | 8                  | 0.18               | 36                 | 44   | 45                                      | 0   | 45                             | 0                                  | 0                      | 0                        |
| 160                       | BEAUTY                    | 170           | 25                               | 5                           | 20.0                   | 100                | 0.12               | 20                 | 120  | 120                                     | 0   | 120                            | 0.6                                | 102                    | 110                      |
| 162                       | ACTIVITY                  | 1138          | 40                               | 46                          | 5.0                    | 230                | 0.06               | 68                 | 298  | 300                                     | 0   | 300                            | 0                                  | 0                      | 0                        |
| 163                       | KITCHEN                   | 613           | 5                                | 4                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 145                                     | 0   | 145                            | 0                                  | 0                      | 0                        |
| 167                       | DRY STORAGE               | 118           | 0                                | 0                           | 0.0                    | 0                  | 0.06               | 7                  | 7  | 10                                      | 0   | 10                             | 0                                  | 0                      | 0                        |
| 170                       | STORAGE                   | 304           | 0                                | 0                           | 0.0                    | 0                  | 0.06               | 18                 | 18   | 20                                      | 0   | 20                             | 0                                  | 0                      | 0                        |
| 170B                      | CORRIDOR                  | 333           | 0                                | 0                           | 0.0                    | 0                  | 0.06               | 20                 | 20   | 270                                     | 0   | 270                            | 0                                  | 0                      | 0                        |
| 171                       | JANITOR'S CLOSET          | 55            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 30                                      | 0   | 30                             | 2                                  | 110                    | 120                      |
| 172                       | LAUNDRY                   | 262           | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 524                    | 555                      |
| 173                       | SOILED HOLD.              | 131           | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 150                                     | 0   | 150                            | 2                                  | 262                    | 280                      |
| 174                       | STAFF LOUNGE              | 125           | 5                                | 1                           | 5.0                    | 5                  | 0.06               | 8                  | 13   | 15                                      | 0   | 15                             | 0                                  | 0                      | 0                        |
| 175                       | STAFF RESTROOM            | 68            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 30                                      | 0   | 30                             | 2                                  | 136                    | 145                      |
| 176                       | CARE BASE                 | 723           | 5                                | 4                           | 5.0                    | 20                 | 0.06               | 43                 | 63   | 65                                      | 0   | 65                             | 0                                  | 0                      | 0                        |
| 177                       | STAFF TOILET              | 56            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 30                                      | 0   | 30                             | 2                                  | 112                    | 120                      |
| 178                       | MEDS                      | 80            | 5                                | 1                           | 5.0                    | 5                  | 0.06               | 5                  | 10   | 10                                      | 0   | 10                             | 0                                  | 0                      | 0                        |
| 179                       | BATHING                   | 251           | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 502                    | 530                      |
| 180                       | JANITOR'S CLOSET          | 29            | 0                                | 0                           | 0.0                    | 0                  | 0.06               | 2                  | 2  | 5                                       | 0   | 5                              | 2                                  | 58                     | 65                       |
| 181                       | VISITOR TOILET            | 58            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 116                    | 125                      |
| 182                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 182R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 183                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 183R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 184                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 184R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 186                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 186R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 188                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 188R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 190                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 190R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 191                       | E. CORRIDOR 2             | 618           | 0                                | 0                           | 0.0                    | 0                  | 0.06               | 37                 | 37   | 265                                     | 0   | 265                            | 0                                  | 0                      | 0                        |
| 192                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 192R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 193                       | STORAGE                   | 235           | 0                                | 0                           | 0.0                    | 0                  | 0.06               | 14                 | 14   | 15                                      | 0   | 15                             | 0                                  | 0                      | 0                        |
| 194                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 194R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 195                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 195R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 196                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 196R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 197                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 197R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 198                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 198R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 199                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 199R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 200                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 200R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 201                       | PRIVATE ROOM              | 235           | 5                                | 2                           | 5.0                    | 10                 | 0.06               | 14                 | 24   | 80                                      | 30  | 110                            | 0                                  | 0                      | 0                        |
| 201R                      | PRIVATE BATH              | 52            | 0                                | 0                           | 0.0                    | 0                  | 0.00               | 0                  | 0  | 0                                       | 0   | 0                              | 2                                  | 104                    | 110                      |
| 202                       | N. CORRIDOR               | 873           | 0                                | 0                           | 0.0                    | 0                  | 0.06               | 52                 | 52   | 375                                     | 0   | 375                            | 0                                  | 0                      | 0                        |

**STROUD ENGINEERING, P.A.**  
 422 HWY 24  
 MOKHEAD CITY, NC 28557  
 (252) 247-7479 LICENSE NO. C-0647



**L. MICHAEL STROUD, P.E.**

**COPYRIGHT STATEMENT**  
 These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.

**20 JANUARY, 2023**

Matthew A Conte, AIA  
 NC. REG.#15129



A WOMEN'S BUSINESS ENTERPRISE  
 NC License #1919  
 Mailing Address:  
 424 E. Central Blvd, #542  
 Orlando, FL 32801  
 www.eleven18architecture.com  
 Physical Address:  
 1011 E. Colonial Dr. #307  
 Orlando, FL 32803  
 #07255300  
 © Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
 All Rights Reserved Worldwide

**PROJECT NAME:**  
**THE SPRINGS OF BALLENTINE**  
 40 RAWLS CLUB RD  
 FUQUAY-VARINA NC.

**PROJECT CLIENT:**  
**CAROLINA CONTRACTORS**

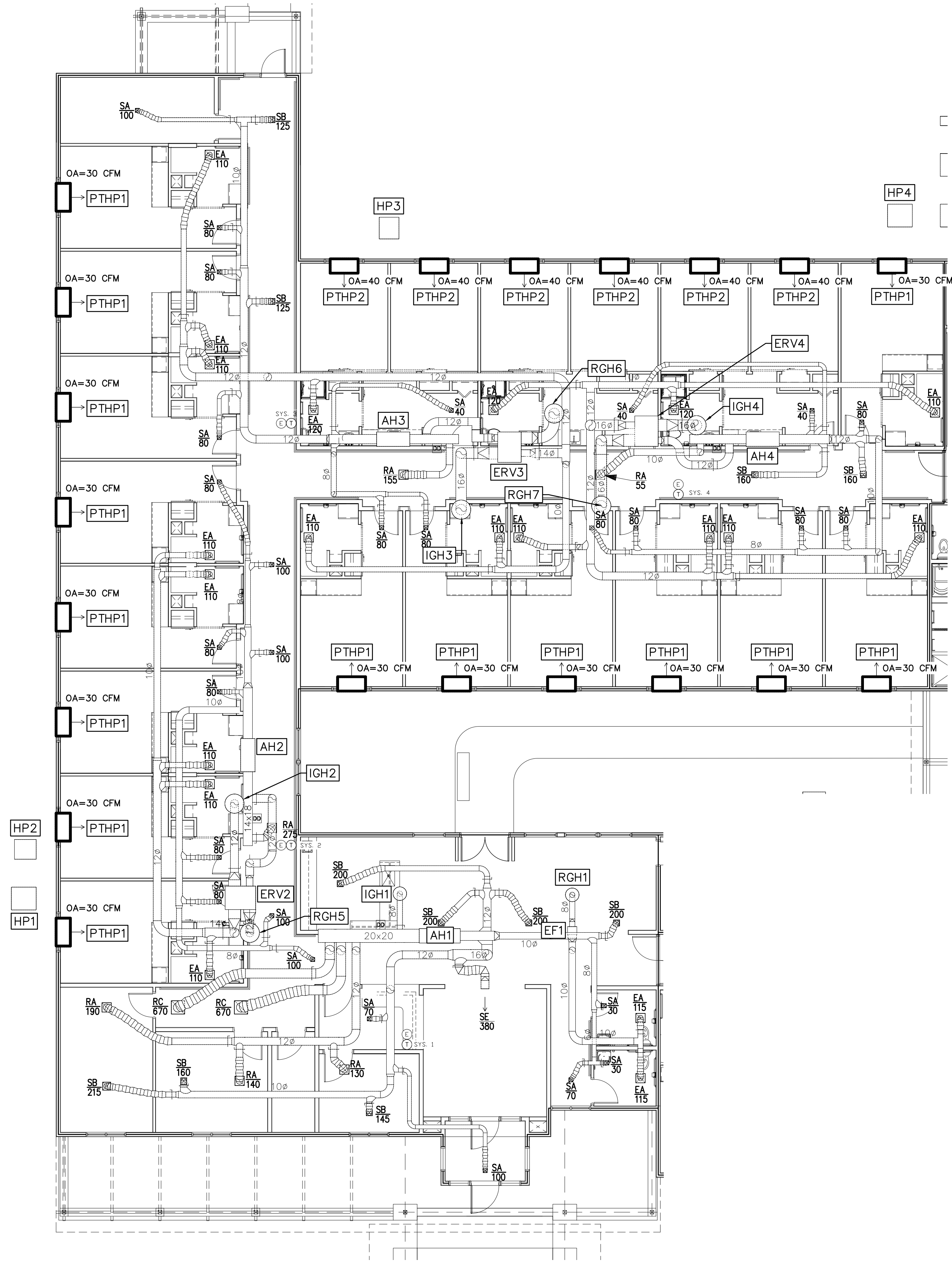
**ELEVEN18 PROJECT LEAD:**  
 MATTHEW A. CONTE  
 407-745-5301  
 mconte@eleven18architecture.com

**PROJECT TEAM:**  
 Gabriela Salazar  
 Pamela Friday  
 Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**M004**  
 VENTILATION SUMMARY CONT.

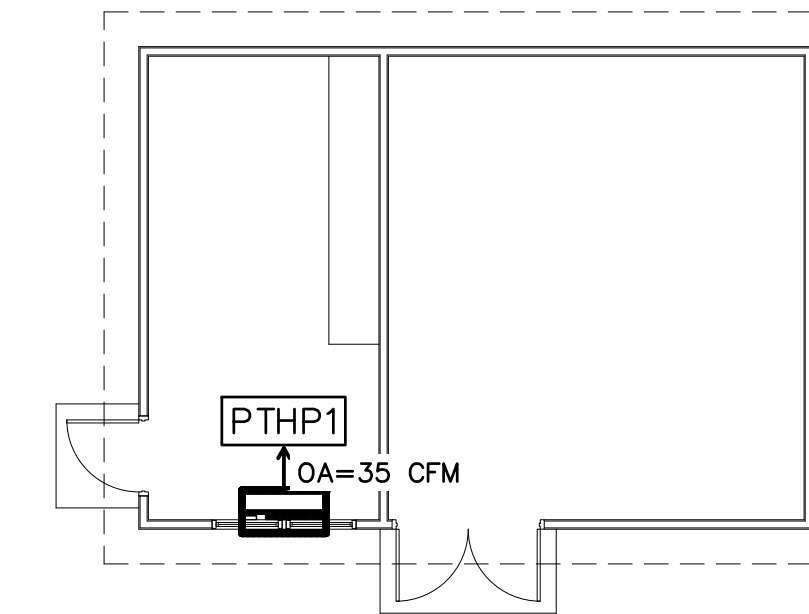




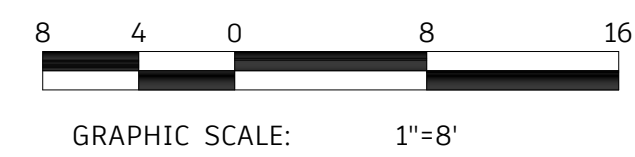
1  
M101 PARTIAL HVAC PLAN (SMOKE COMPARTMENT A)  
SCALE: 1/8"=1'-0"

MECHANICAL GENERAL NOTES:

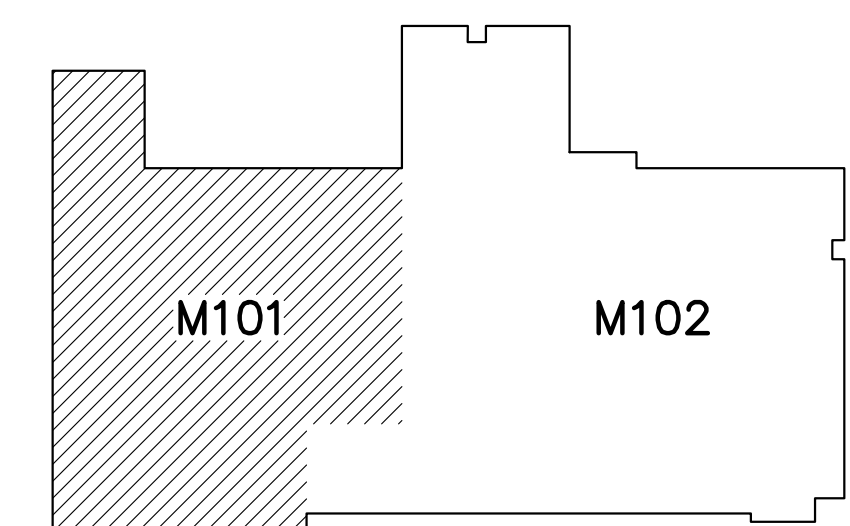
1. ALL DIFFUSERS AND GRILL SHALL HAVE RADIATION DAMPERS; SEE DETAIL 6/M207.
2. CONFIRM LOCATION OF FIRE AND/OR SMOKE ASSEMBLIES WITH ARCHITECTURAL PLANS. PROVIDE COMBINATION FIRE/SMOKE DAMPER PER DETAIL 1/M208.
3. CONDENSATE DRAINS SHALL BE ROUTED TO NEAREST PREVIOUS AREA OUTSIDE. ALL CONDENSATE DRAINS SHALL BE PVC WITH 1/2" ARMAFLEX INSULATION.



2  
M101 STORAGE BUILDING HVAC PLAN  
SCALE: 1/8"=1'-0"

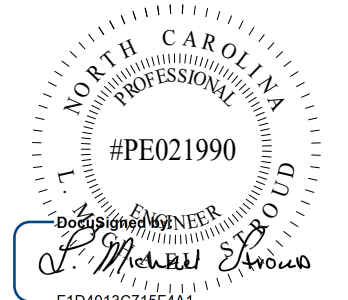


KEY PLAN



STROUD ENGINEERING, P.A.  
422 HWY 24  
MORRISVILLE, NC 28557  
(352) 247-7479  
LICENSE NO. C-0647

L. MICHAEL STROUD, P.E.



20 JANUARY,  
2023

Matthew A Conte, AIA  
NC. REG.#15129



PROJECT NAME:  
**THE SPRINGS  
OF  
BALLENTINE**

40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA  
COMMERCIAL  
CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407-745-5301  
mconte@eleven18architecture.com

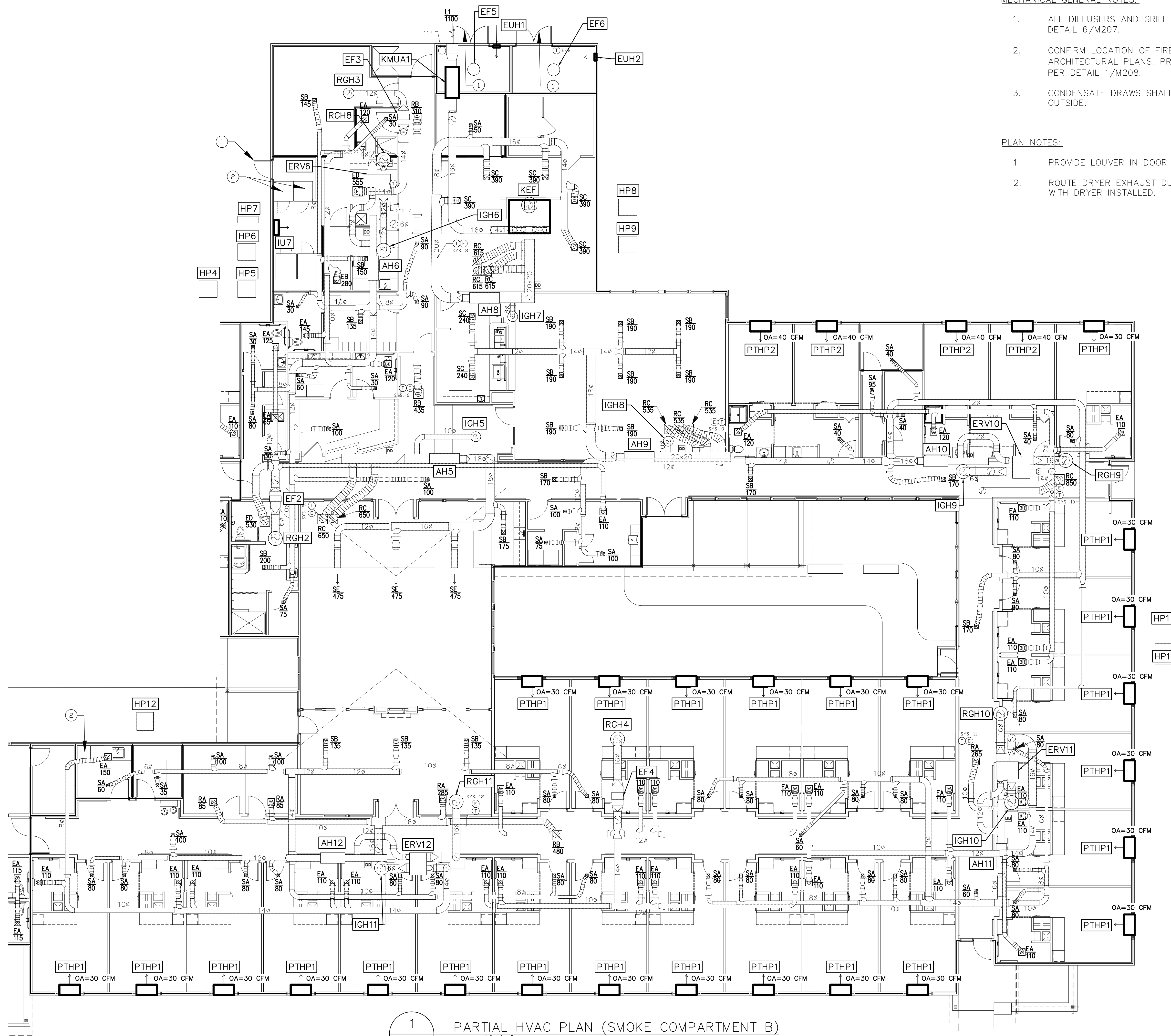
PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

**M101**  
PARTIAL HVAC PLAN

COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.





1  
M102  
PARTIAL HVAC PLAN (SMOKE COMPARTMENT B)  
SCALE: 1/8"=1'-0"

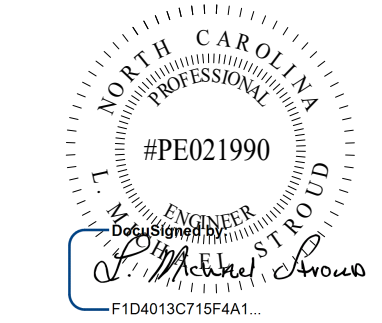
**MECHANICAL GENERAL NOTES:**

1. ALL DIFFUSERS AND GRILL SHALL HAVE RADIATION DAMPERS; SEE DETAIL 6/M207.
2. CONFIRM LOCATION OF FIRE AND/OR SMOKE ASSEMBLIES WITH ARCHITECTURAL PLANS. PROVIDE COMBINATION FIRE/SMOKE DAMPER PER DETAIL 1/M208.
3. CONDENSATE DRAWS SHALL BE ROUTED TO NEAREST PREVIOUS AREA OUTSIDE.

**PLAN NOTES:**

1. PROVIDE LOUVER IN DOOR (3 SF OF FREE AREA MIN.).
2. ROUTE DRYER EXHAUST DUCT TO ROOF CAP. VERIFY REQUIREMENTS WITH DRYER INSTALLED.

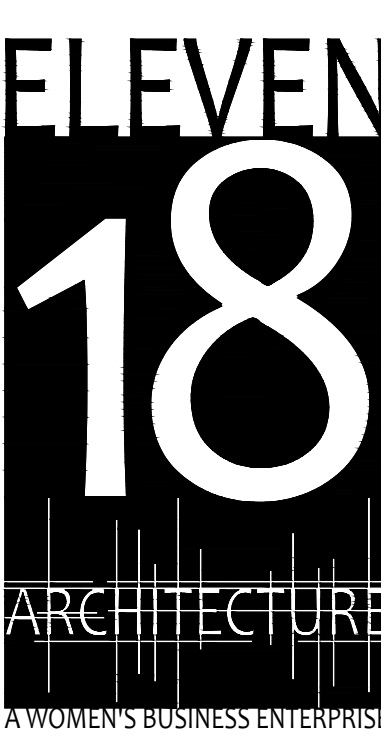
**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MOKHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



**L. MICHAEL STROUD, P.E.**

20 JANUARY,  
2023

Matthew A Conte, AIA  
NC. REG.#15129



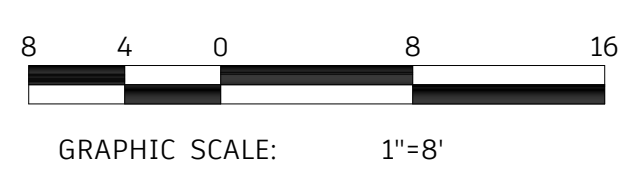
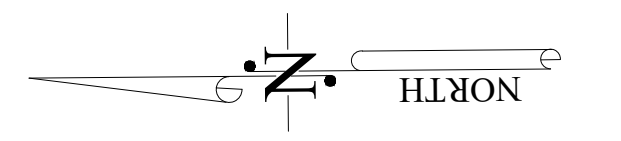
NC License #1919  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32805  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.255.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS  
OF  
BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

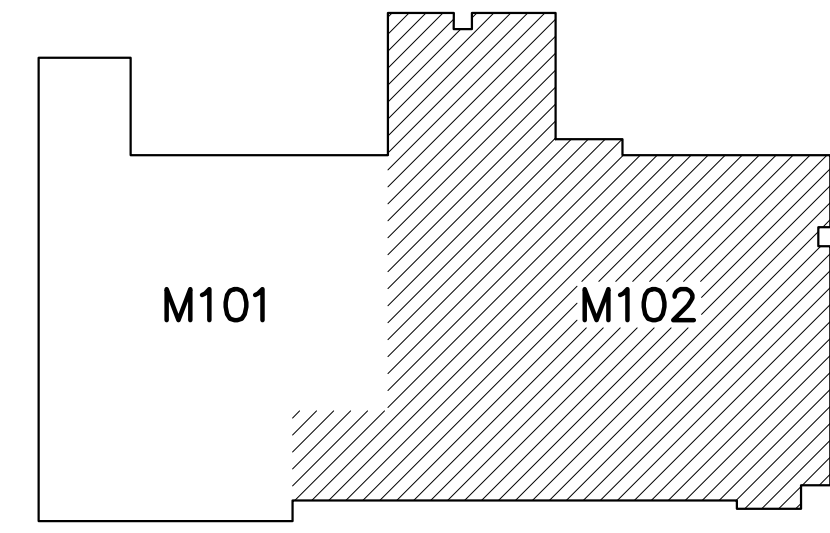
PROJECT CLIENT:  
**CAROLINA  
CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
**MATTHEW A. CONTE**  
407.745.5301  
mcont@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Famela Frisday  
Yuan Ping Lien



**KEY PLAN**



**REVISIONS**

| # | DATE      | DESC.            |
|---|-----------|------------------|
| - | -         | PERMIT SUBMITTAL |
| 1 | 1/20/2023 | REVISION 1       |
| 2 | 3/13/2023 | REVISION 2       |

**M102**  
PARTIAL HVAC PLAN



**HOOD INFORMATION - JOB#5581799**

| HOOD NO | TAG | MODEL           | MANUFACTURER | LENGTH | MAX COOKING TEMP | TYPE | APPLIANCE DUTY | DESIGN CFM/FT | TOTAL EXH CFM | EXHAUST PLENUM RISER(S) |      |        |     |      | TOTAL SUPPLY CFM | HOOD CONSTRUCTION | HOOD CONFIG |                      |        |       |
|---------|-----|-----------------|--------------|--------|------------------|------|----------------|---------------|---------------|-------------------------|------|--------|-----|------|------------------|-------------------|-------------|----------------------|--------|-------|
|         |     |                 |              |        |                  |      |                |               |               | WIDTH                   | LENG | HEIGHT | DIA | CFM  |                  |                   | VEL         | SP                   | END TO | ROW   |
| 1       |     | 5424 ND-2-PSP-F | CAPTIVEAIRE  | 6' 0"  | 600 DEG          | I    | HEAVY          | 225           | 1350          |                         |      | 4'     | 14" | 1350 | 1263             | -0.640"           | 1100        | 430 SS WHERE EXPOSED | ALONE  | ALONE |

**HOOD INFORMATION**

| HOOD NO | TAG | FILTER(S)             |     |        |        | LIGHT(S)               |     |                |            | UTILITY CABINET(S) |             |             |         | FIRE SYSTEM PIPING | HOOD HANGING WEIGHT |                    |                   |
|---------|-----|-----------------------|-----|--------|--------|------------------------|-----|----------------|------------|--------------------|-------------|-------------|---------|--------------------|---------------------|--------------------|-------------------|
|         |     | TYPE                  | QTY | HEIGHT | LENGTH | EFFICIENCY @ 7 MICRONS | QTY | TYPE           | WIRE GUARD | LOCATION           | SIZE        | FIRE SYSTEM | SIZE    |                    |                     | ELECTRICAL MODEL # | SWITCHES QUANTITY |
| 1       |     | CAPTRATE SOLID FILTER | 4   | 16"    | 16"    | 85% SEE FILTER SPEC    | 4   | RECESSED ROUND | NO         | RIGHT              | 12"x54"x24" | TANK F'S    | 4.0/4.0 | SC-311110MA        | 1 LIGHT<br>1 FAN    | YES                | 737 LBS           |

**HOOD OPTIONS**

| HOOD NO | TAG | OPTION  |
|---------|-----|---|
| 1       |     | FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.<br>BACKSPLASH 80.00" HIGH X 84.00" LONG 430 SS VERTICAL.<br>RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.<br>LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.<br>INSULATION FOR BACK OF HOOD. |

**PERFORATED SUPPLY PLENUM(S)**

| HOOD NO | TAG | PDS   | LENGTH | WIDTH | HEIGHT | TYPE | RISER(S) |      |     |     |        |
|---------|-----|-------|--------|-------|--------|------|----------|------|-----|-----|--------|
|         |     |       |        |       |        |      | WIDTH    | LENG | DIA | CFM | SP     |
| 1       |     | Front | 84"    | 14"   | 6"     | MUA  | 10'      | 28"  |     | 550 | 0.141' |
|         |     |       |        |       |        | MUA  | 10'      | 28"  |     | 550 | 0.141' |

GREASE DUCT & CHIMNEY SPECIFICATIONS:  
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURER'S INSTALLATION GUIDE.  
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURER'S LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12". HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW-2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

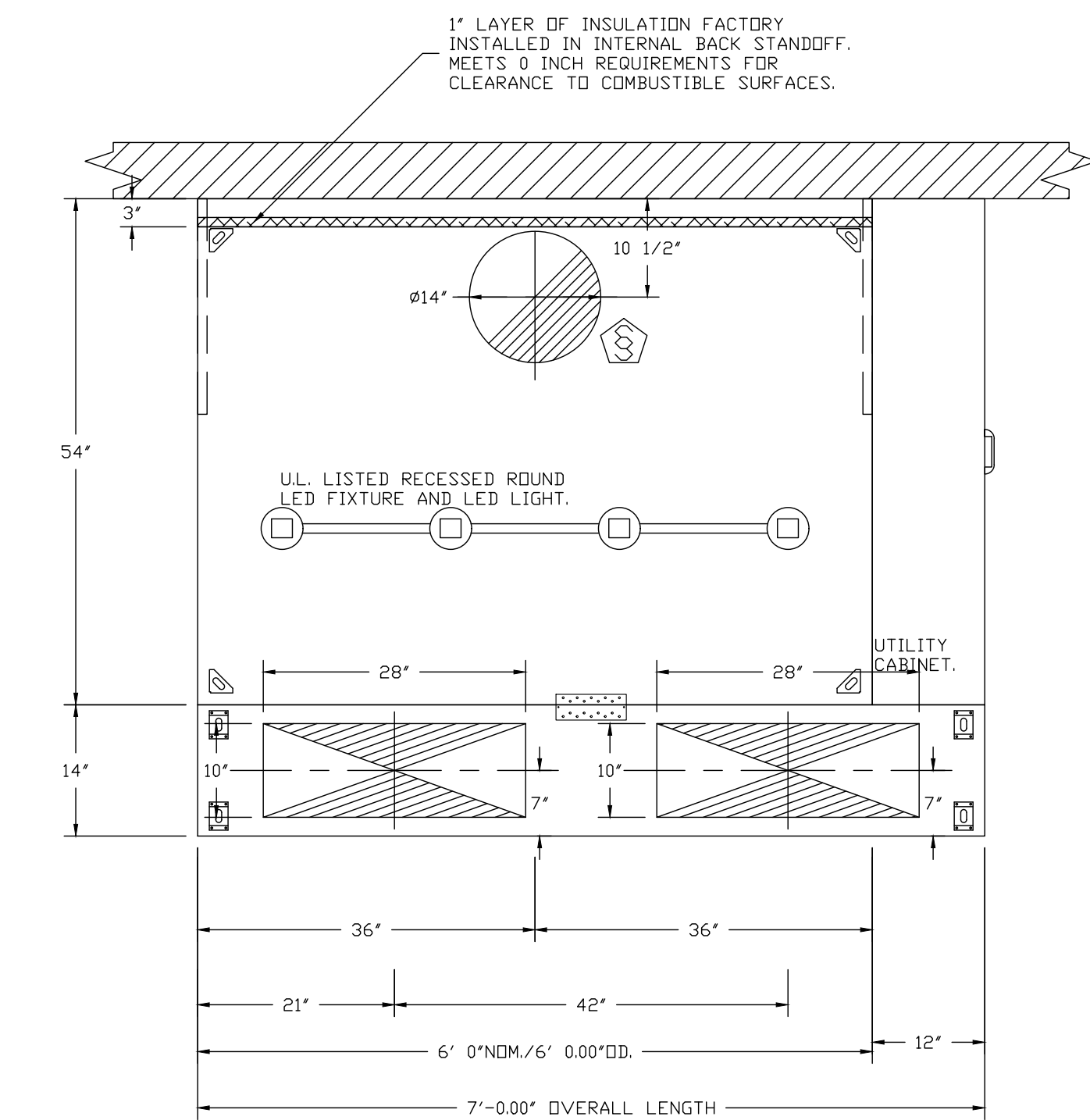
**HVAC DISTRIBUTION NOTE**  
HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

**VERIFY CEILING HEIGHT**

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

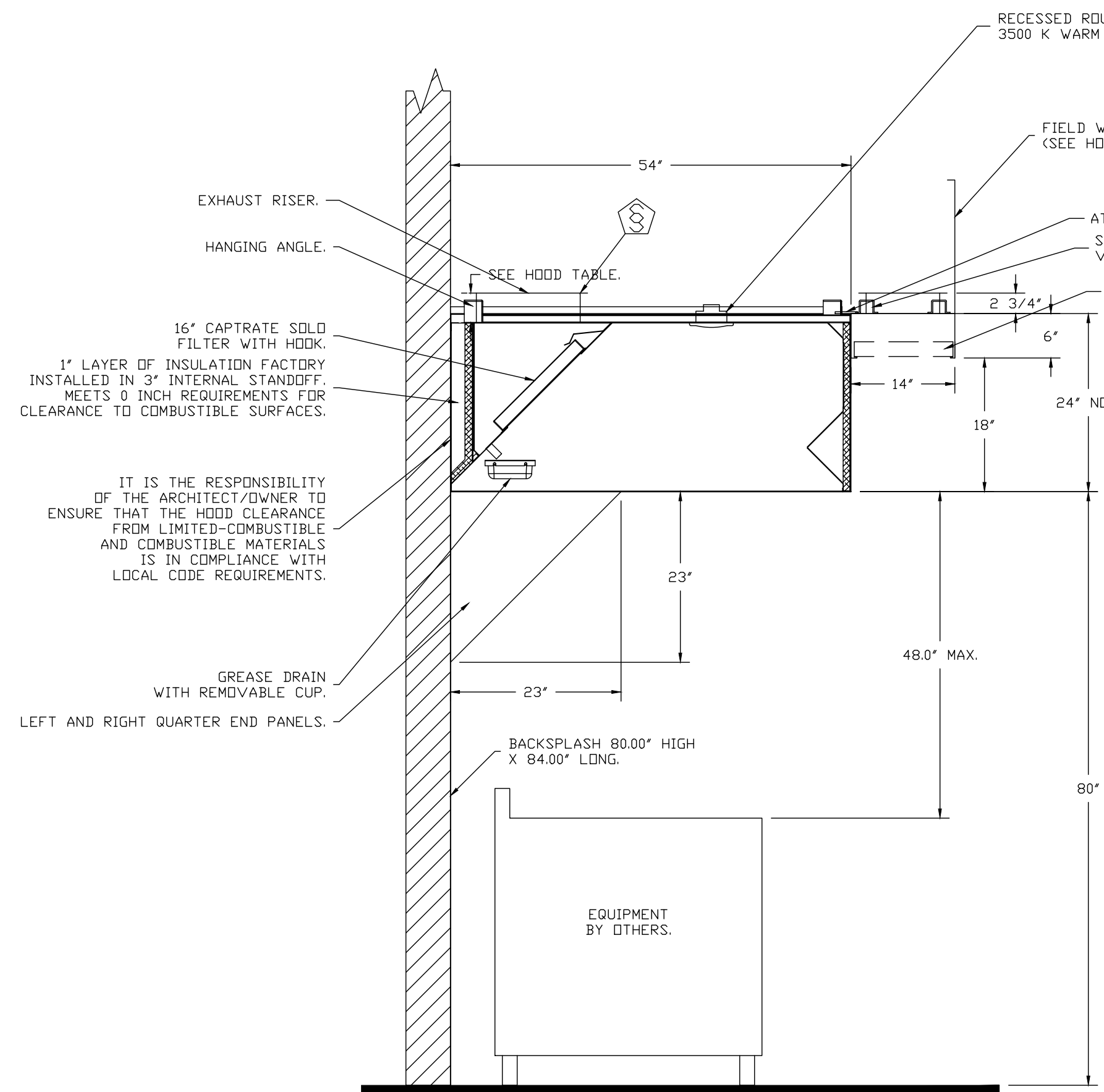
**CUSTOMER APPROVAL TO MANUFACTURE:**

APPROVED AS NOTED   
APPROVED WITH NO EXCEPTION TAKEN   
REUSE AND RESUBMIT   
SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_



PLAN VIEW - HOOD #1  
6' 0.00" LONG 5424ND-2-PSP-F

1  
M201 KITCHEN HOOD PLAN VIEW  
SCALE: NONE



SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #1

2  
M201 KITCHEN HOOD SECTION VIEW  
SCALE: NONE

**SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER**

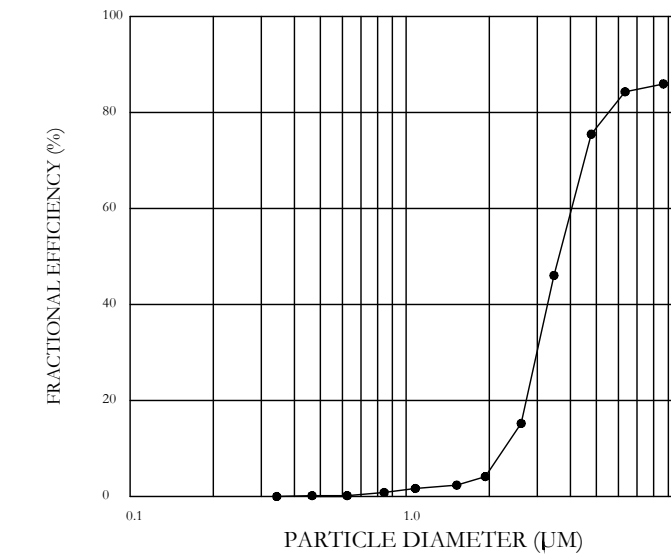
THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

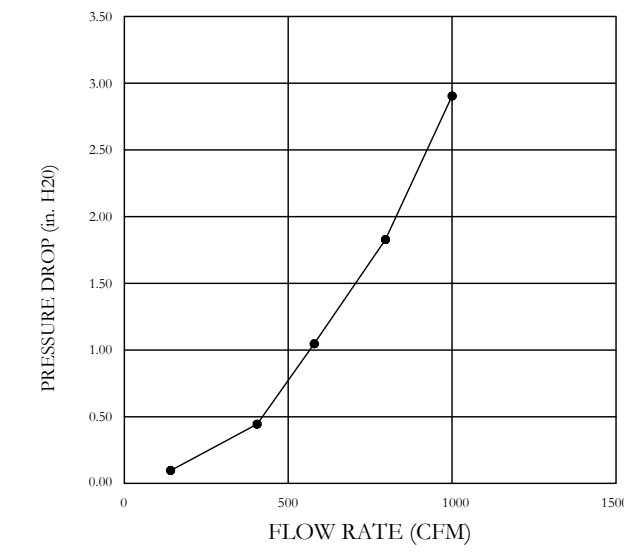
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

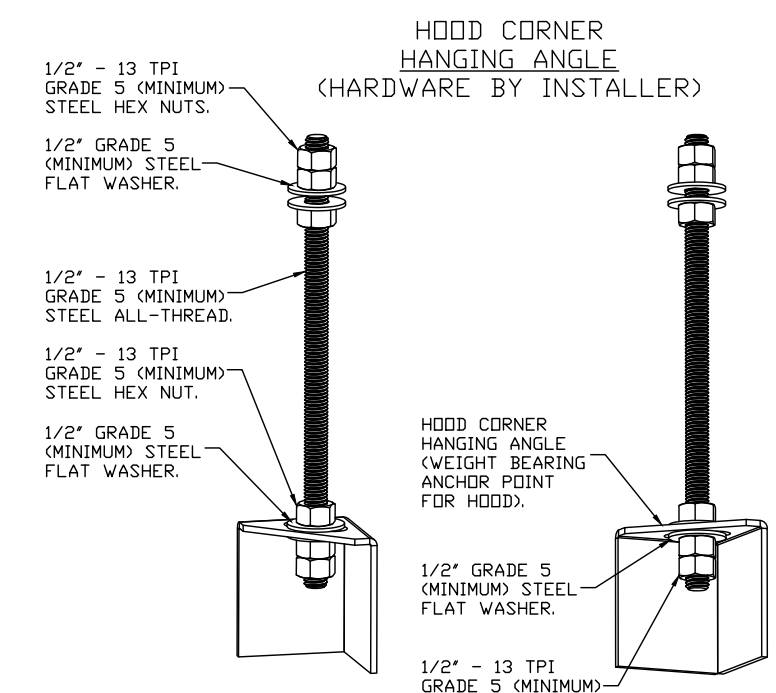
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE

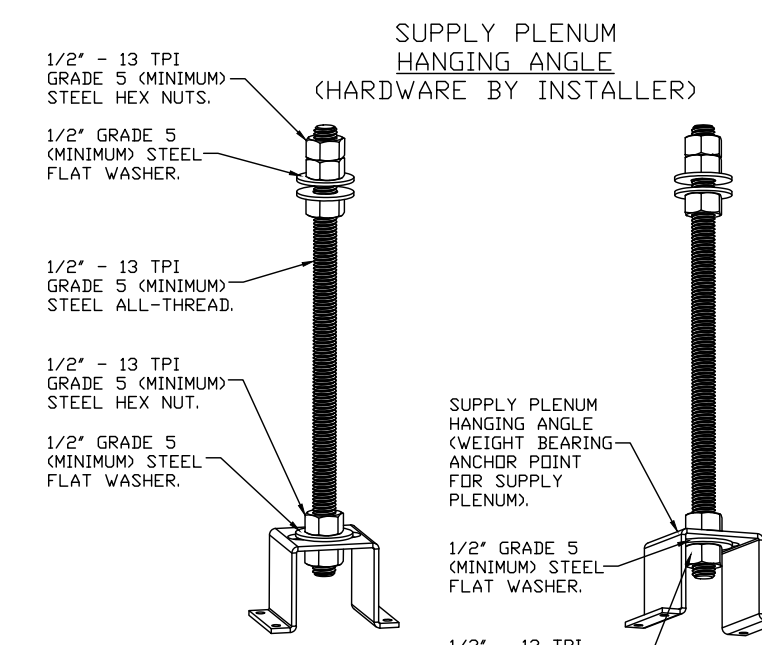


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:  
NFPA #96.  
NSF STANDARD #2.  
UL STANDARD #1046.  
INT. MECH. CODE (IMC).  
ULC-S649.



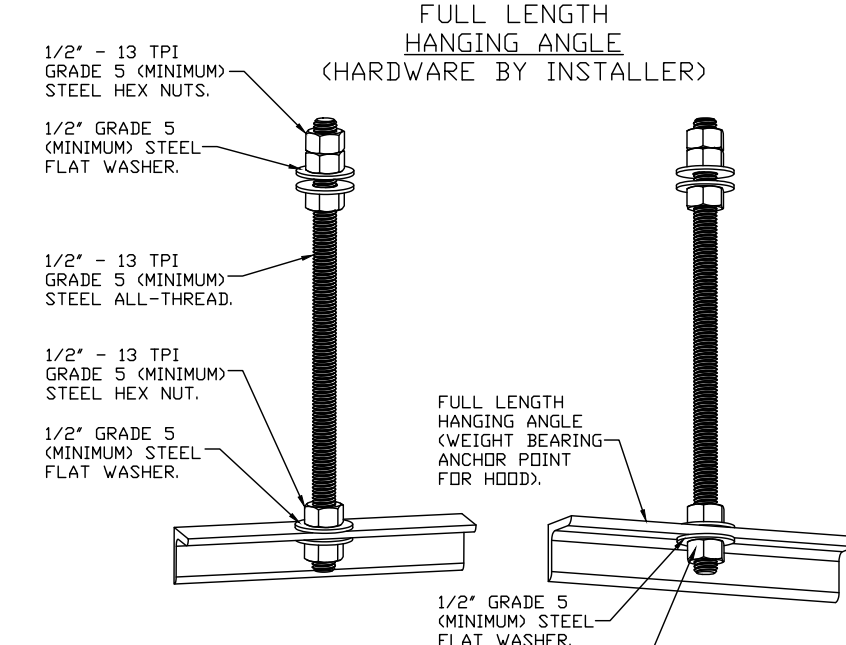
**ASSEMBLY INSTRUCTIONS**

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



**ASSEMBLY INSTRUCTIONS**

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



**ASSEMBLY INSTRUCTIONS**

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MOKHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



**L. MICHAEL STROUD, P.E.**

20 JANUARY, 2023



PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA CONTRACTORS**

ELEVEN8 PROJECT LEAD:  
**MATTHEW A. CONTE**  
407-745-5301  
mcont@eleven8architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| -         | -         | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

**M201**  
KITCHEN HOOD DETAILS

COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN8 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN8 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN8 Architecture is prohibited by law.



**EXHAUST FAN INFORMATION - JOB#5581799**

| FAN UNIT NO | TAG | QTY | FAN UNIT MODEL # | MANUFACTURER | CFM  | ESP   | RPM  | MOTOR ENCL | HP    | BHP    | PHASE | VOLT | FLA | DISCHARGE VELOCITY | WEIGHT (LBS) | SONES           |
|-------------|-----|-----|------------------|--------------|------|-------|------|------------|-------|--------|-------|------|-----|--------------------|--------------|-----------------|
| 1           | KEF | 1   | EADU85H          | ECON-AIR     | 1350 | 1.000 | 1232 | DDP        | 0.750 | 0.3380 | 3     | 208  | 2.6 | 427 FPM            | 94           | 9.3948871708618 |

**MUA FAN INFORMATION - JOB#5581799**

| FAN UNIT NO | TAG    | QTY | FAN UNIT MODEL # | BLOWER     | HOUSING | MIN CFM | DESIGN CFM | ESP   | RPM  | MOTOR ENCL | HP    | BHP    | PHASE | VOLT | FLA | MCA  | MDCP | WEIGHT (LBS) | SONES           |
|-------------|--------|-----|------------------|------------|---------|---------|------------|-------|------|------------|-------|--------|-------|------|-----|------|------|--------------|-----------------|
| 2           | KMAU-1 | 1   | EA-A1-15D        | 15MF-1-MDD | A1      | -       | 1100       | 0.500 | 1294 | DDP        | 0.750 | 0.3390 | 3     | 208  | 2.5 | 3.2A | 15A  | 347          | 12.312931000911 |

**FAN OPTIONS**

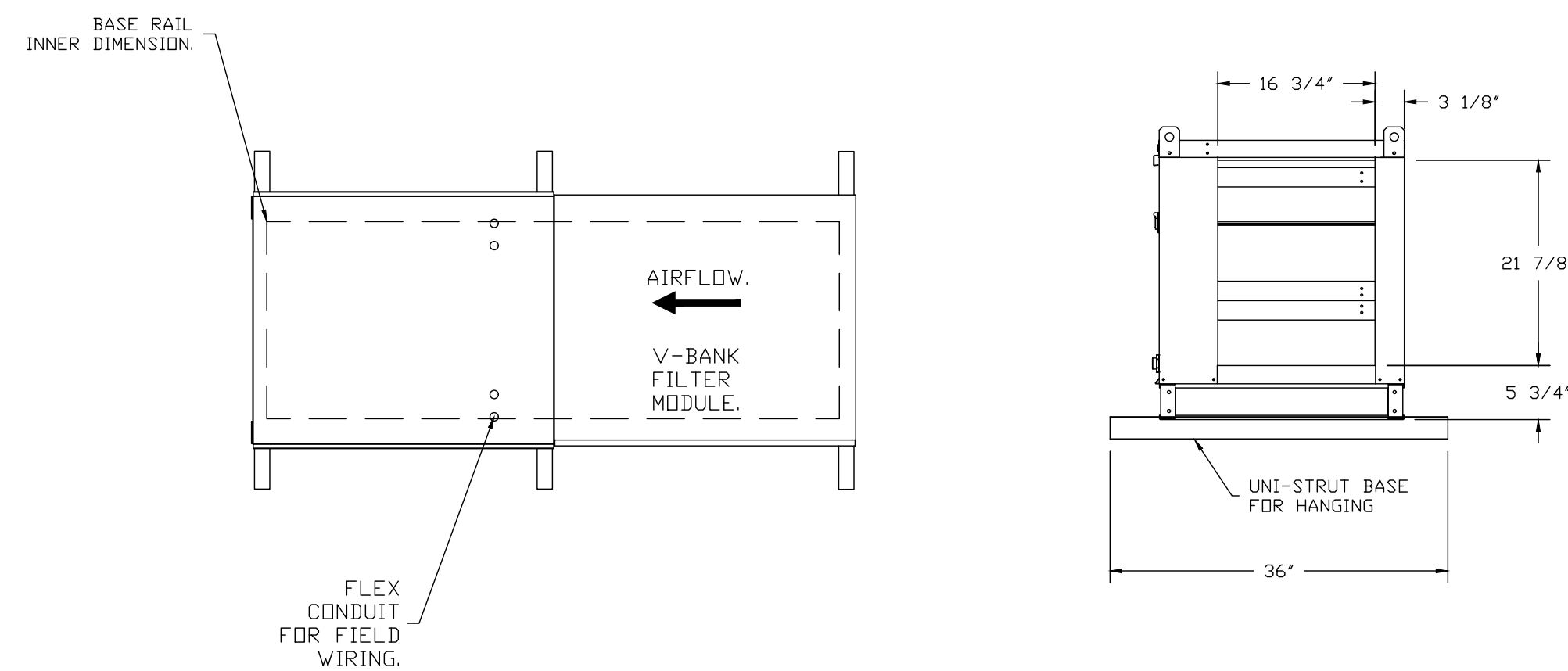
| FAN UNIT NO | TAG    | QTY | DESCRIPTION   |
|-------------|--------|-----|---|
| 1           | KEF    | 1   | GREASE BDX  |
|             |        | 1   | 2 YEAR PARTS WARRANTY   |
| 2           | KMAU-1 | 1   | INSULATION OPTION FOR V-BANK FILTER SECTION   |
|             |        | 1   | GRAVITY BACKDRAFT DAMPER FOR SIZE 1 HOUSING   |
|             |        | 1   | A1 INDOOR HANGING OPTION - INCLUDES 2 HSA12S HANGING SPRING ISOLATORS PER UNI-STRUT |
|             |        | 1   | 2 YEAR PARTS WARRANTY   |

**FAN ACCESSORIES**

| FAN UNIT NO | TAG    | EXHAUST    |                |            |                | SUPPLY         |                  |            |
|-------------|--------|------------|----------------|------------|----------------|----------------|------------------|------------|
|             |        | GREASE CUP | GRAVITY DAMPER | WALL MOUNT | SIDE DISCHARGE | GRAVITY DAMPER | MOTORIZED DAMPER | WALL MOUNT |
| 1           | KEF    | YES        |                |            |                |                |                  |            |
| 2           | KMAU-1 |            |                |            | YES            | YES            |                  |            |

**CURB ASSEMBLIES**

| NO | DN FAN | TAG | WEIGHT | ITEM | SIZE  |
|----|--------|-----|--------|------|---|
| 1  | # 1    | KEF | 41 LBS | CURB | 23.000"W X 23.000"L X 24.000"H ALONG LENGTH, RIGHT VENTED HINGED. |

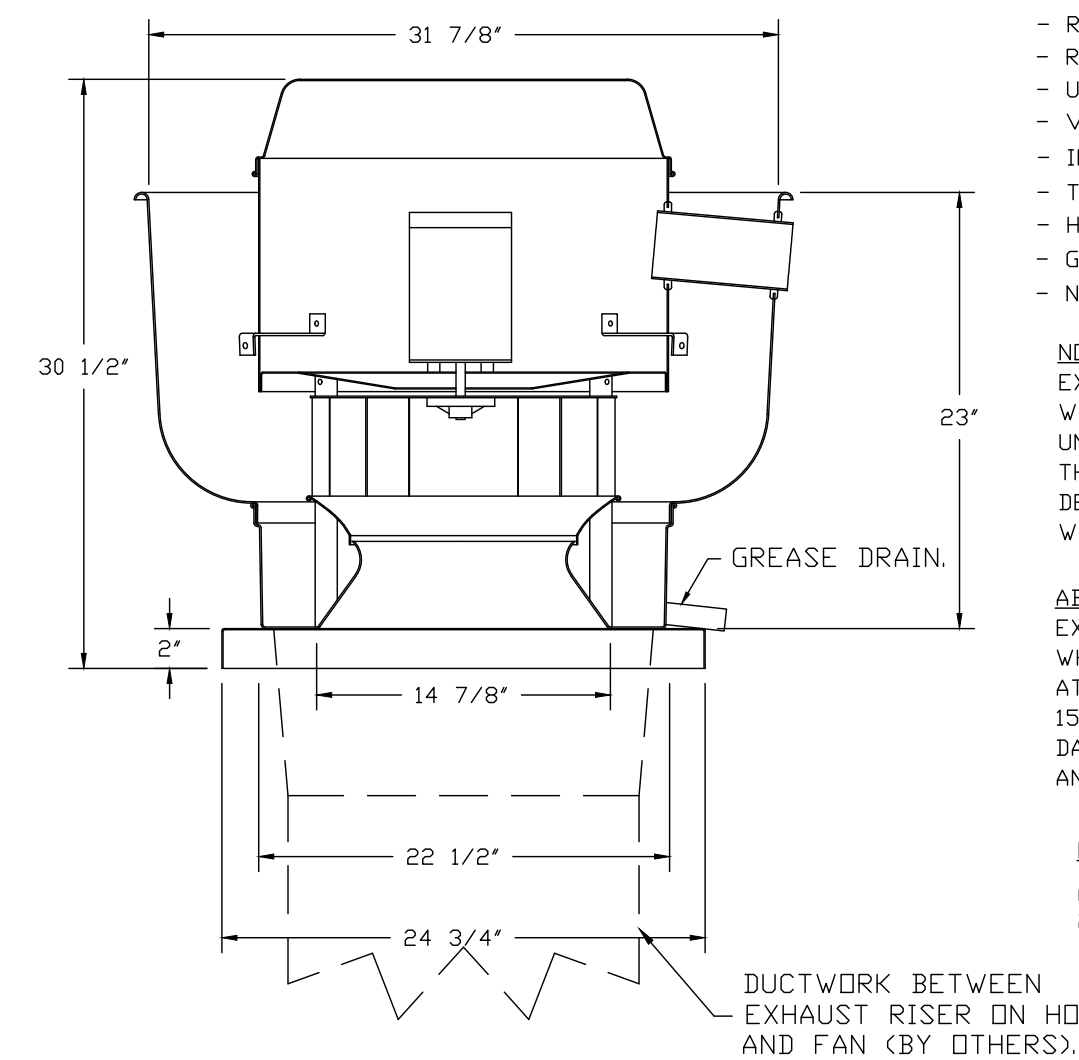


FAN #2 EA-A1-15D - SUPPLY FAN (KMAU-1)  
 1. UNTEMPERED SUPPLY UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN IN SIZE #1 HOUSING.  
 2. V-BANK EZ FILTERS - INDOOR.  
 3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT.  
 4. "INSULATION" FOR V-BANK INTAKE OPTION.  
 5. GRAVITY BACK DRAFT DAMPER, 16" WIDE X 18" HIGH, STANDARD GALVANIZED CONSTRUCTION, 1 1/4" REAR FLANGE, FOR SIZE 1 UNTEMPERED FAN HOUSING (S181).  
 6. INDOOR HANGING CRADLE FOR THE SIZE 1 UNTEMPERED UNIT. 2 HSA12S HANGING ISOLATORS PER UNI-STRUT INCLUDED.  
 7. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).  
 8. 2 YEAR PARTS WARRANTY

\*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20".

**1**  
 M202  
 KITCHEN HOOD SUPPLY FAN (KMAU-1) DETAILS  
 SCALE: NONE

**FAN #1 DUBSHEFA - EXHAUST FAN (KEF)**



TOP VIEW

**FEATURES:**

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTRL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

**NORMAL TEMPERATURE TEST**

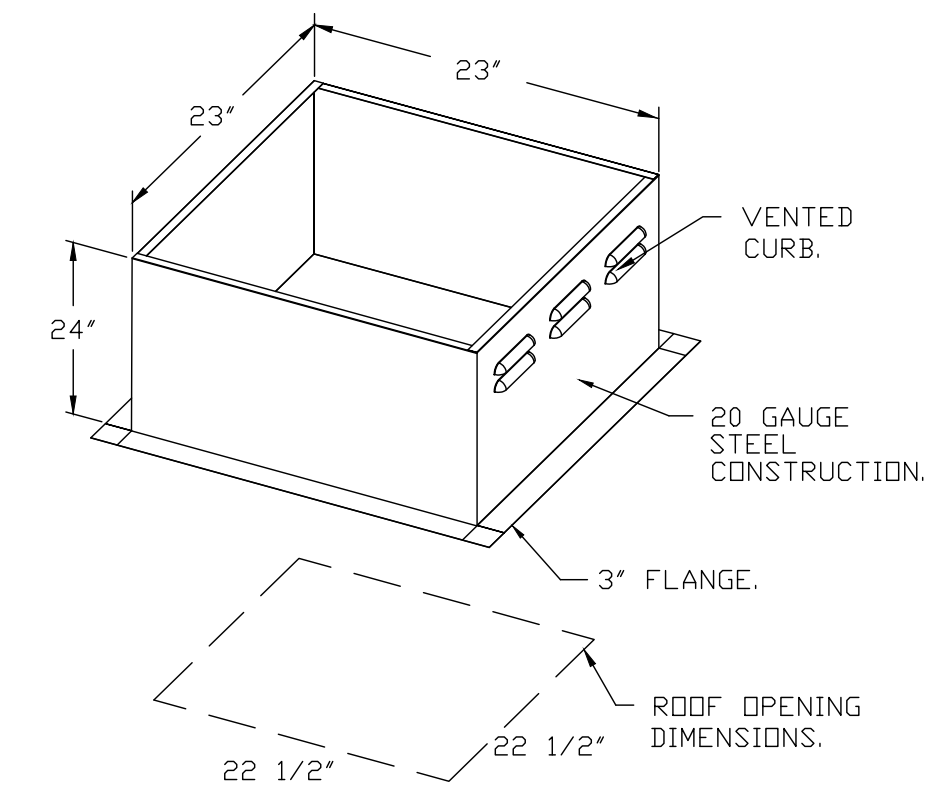
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

**ABNORMAL FLARE-UP TEST**

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

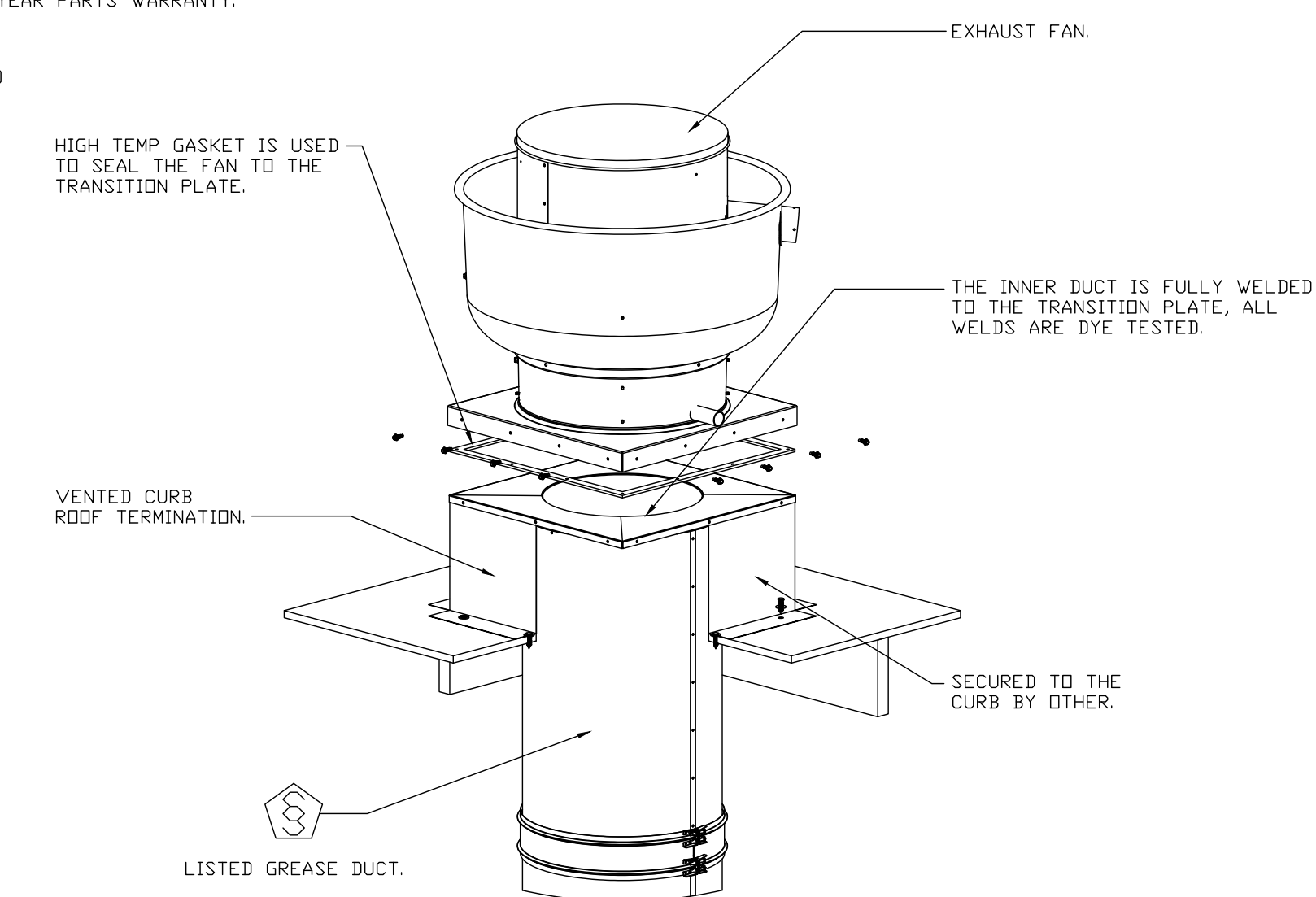
**OPTIONS**

GREASE BOX.  
 2 YEAR PARTS WARRANTY.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH.  
 EXAMPLE: 7/12 PITCH = 30° SLOPE.



\*NOTE: UL 762 INSTALL.

**GREASE DUCT & CHIMNEY SPECIFICATIONS:**  
 PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURERS INSTALLATION GUIDE.  
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURERS LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

**2**  
 M202  
 KITCHEN HOOD EXHAUST FAN (KEF) DETAILS  
 SCALE: NONE

**STROUD ENGINEERING, P.A.**  
 422 HWY 24  
 MOKHEAD CITY, NC 28557  
 (252) 247-7479  
 LICENSE NO. C-0647

PROFESSIONAL ENGINEER  
 #PE021990  
 Matthew A. Conte, AIA  
 NC REG.#15129

20 JANUARY,  
 2023

**ELEVEN  
 18**  
 ARCHITECTURE  
 A WOMEN'S BUSINESS ENTERPRISE

NC License #1919  
 Mailing Address:  
 424 E. Central Blvd. #542  
 Orlando, FL 32805  
 www.eleven8architecture.com  
 Physical Address:  
 1011 E. Colonial Dr. #307  
 Orlando, FL 32803  
 407.255.5300  
 © Copyright 2020 ELEVEN8 ARCHITECTURE, P.L.L.C.  
 All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS  
 OF  
 BALLENTINE**

40 RAWL'S CLUB RD  
 FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA  
 CONTRACTORS**

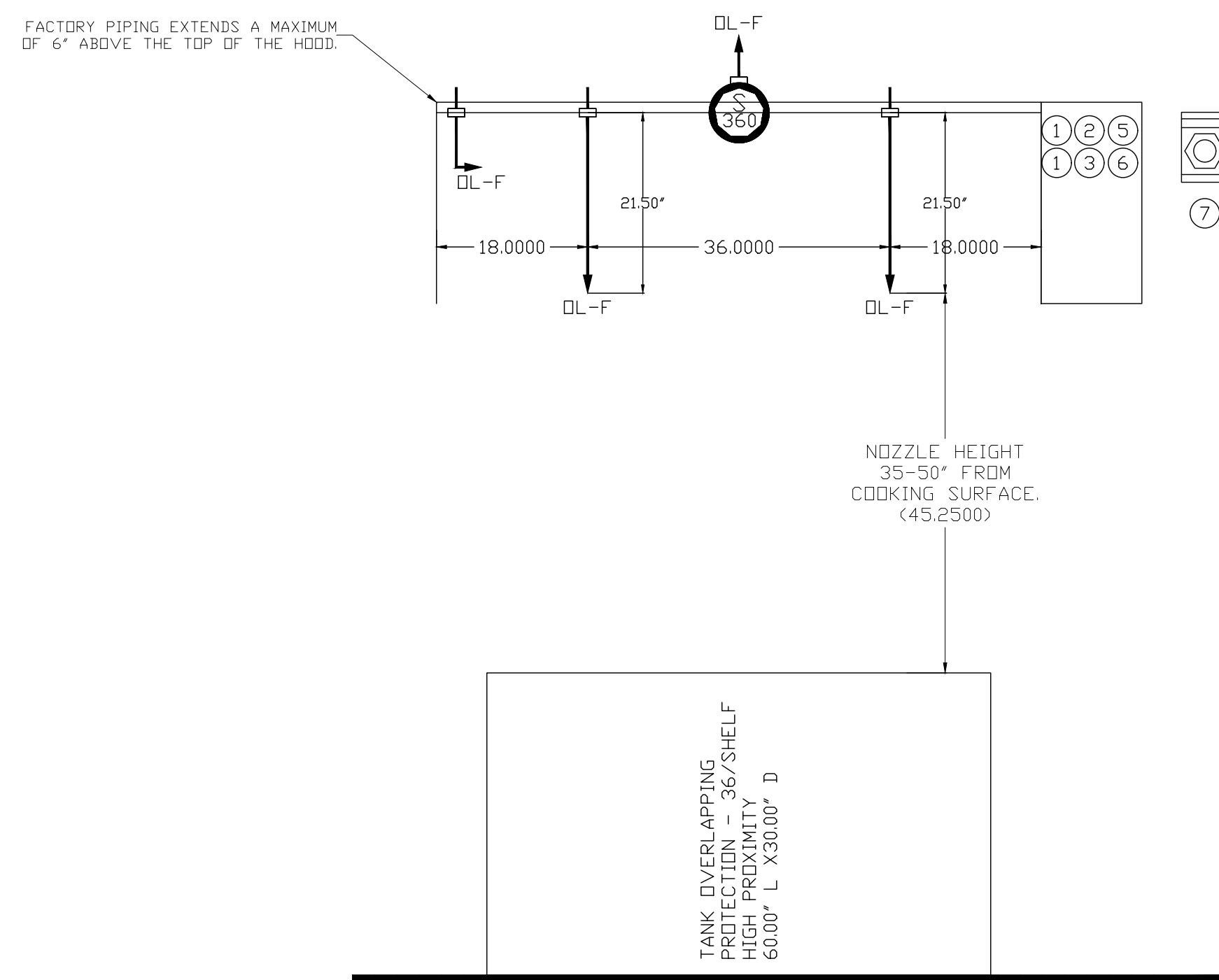
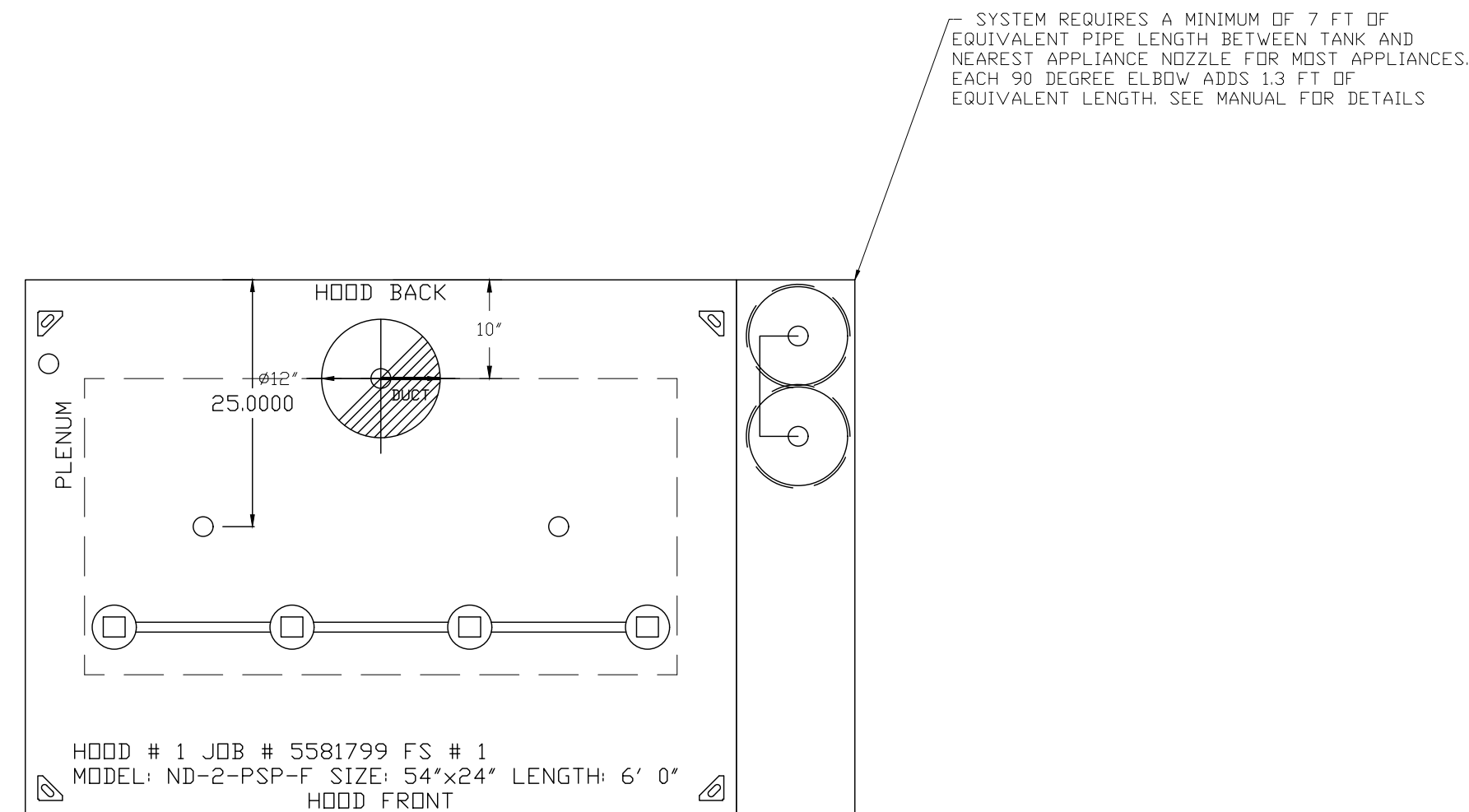
ELEVEN8 PROJECT LEAD:  
 MATTHEW A. CONTE  
 407.745.5301  
 mconte@eleven8architecture.com

PROJECT TEAM:  
 Gabriela Salazar  
 Pamela Friday  
 Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| -         | -         | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

**M202**  
 KITCHEN HOOD FAN  
 DETAILS & SCHEDULES





JOB #: 5581799.  
JOB NAME: THE SPRINGS OF BALLENTINE

SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 18.  
HOOD # 1 6' 0.00' LONG x 54' WIDE x 24' HIGH.  
RISER # 1 SIZE: 0" x 0".

1  
M203

KITCHEN HOOD FIRE SUPPRESSION DETAILS

SCALE: NONE

NOTES

- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELIVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6' ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH UL. 300 REQUIREMENTS.

- DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 5581799.

JOB NAME: SENTERS KITCHEN HOOD.

SYSTEM SIZE: TANK-SP-2 TOTAL FP REQUIRED: 18.

HOOD # 1 6' 0.00' LONG x 54' WIDE x 24' HIGH.

RISER # 1 SIZE: 1.315" DIA.

HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND - FIRE CABINET TANK SYSTEM

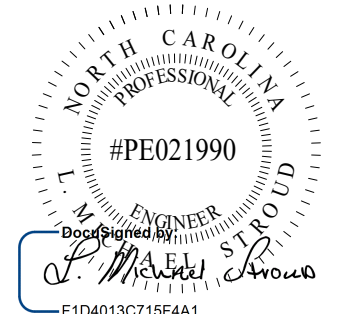
- 4 GALLON TANK.
- PRIMARY ACTUATOR RELEASE.
- SECONDARY ACTUATOR RELEASE.
- PRESSURE SUPERVISION SWITCH.
- PRIMARY HOSE ASSEMBLY.
- SECONDARY HOSE ASSEMBLY.
- REMOTE MANUAL ACTUATION DEVICE.

NOTES

- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 1 60IN LONG PIECE OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELIVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE COVERING A RANGE, FRYER, OR WOK TO REFLECT GENERAL PIPING REQUIREMENTS.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6' ABOVE THE TOP OF THE HOOD.

STROUD ENGINEERING, P.A.

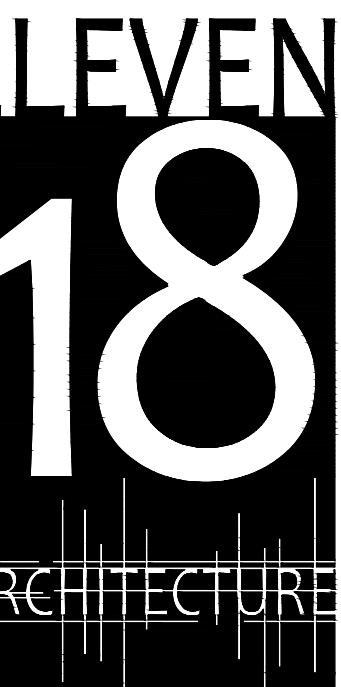
422 HWY 24  
MORRISTOWN, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



L. MICHAEL STROUD, P.E.

20 JANUARY,  
2023

Matthew A Conte, AIA  
NC. REG.#15129



A WOMEN'S BUSINESS ENTERPRISE

N.C. License: 19199  
Mailing Address:  
424 E. Central Blvd., #42  
Orlando, FL 32801  
www.eleven18architecture.com

Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.755.5300

© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:

THE SPRINGS  
OF  
BALLENTINE

40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:

CAROLINA  
COMMERCIAL  
CONTRACTORS

ELEVEN18 PROJECT LEAD:

MATTHEW A. CONTE  
407-745-5301  
mconte@eleven18architecture.com

PROJECT TEAM:

Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

REVISIONS

| #  | DATE | DESC.            |
|----|------|------------------|
| -- | --   | PERMIT SUBMITTAL |
|    | DATE |                  |

|   |           |            |
|---|-----------|------------|
| 1 | 1/20/2023 | REVISION 1 |
| 2 | 3/13/2023 | REVISION 2 |

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

M203  
KITCHEN HOOD FIRE  
SUPPRESSION

|                          |  |                         |                                  |  |
|--------------------------|--|-------------------------|----------------------------------|--|
| JOB NO<br><b>5581799</b> | MODEL NUMBER<br><b>SC-31110MA</b>            | DRAWN BY                | SCHEMATIC TYPE<br><b>INSTALL</b> | DESCRIPTION OF OPERATION:<br>Fire System #1 TANK FS - 4.0/4.0 Tank-based Fire Protection System equipped with Electronic Detection utilizing CDRP board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood prewire panel. |
|                          | JOB NAME<br><b>THE SPRINGS OF BALLENTINE</b> | DATE<br><b>8/2/2022</b> | DWG NO<br><b>ECP #1-3</b>        |  |

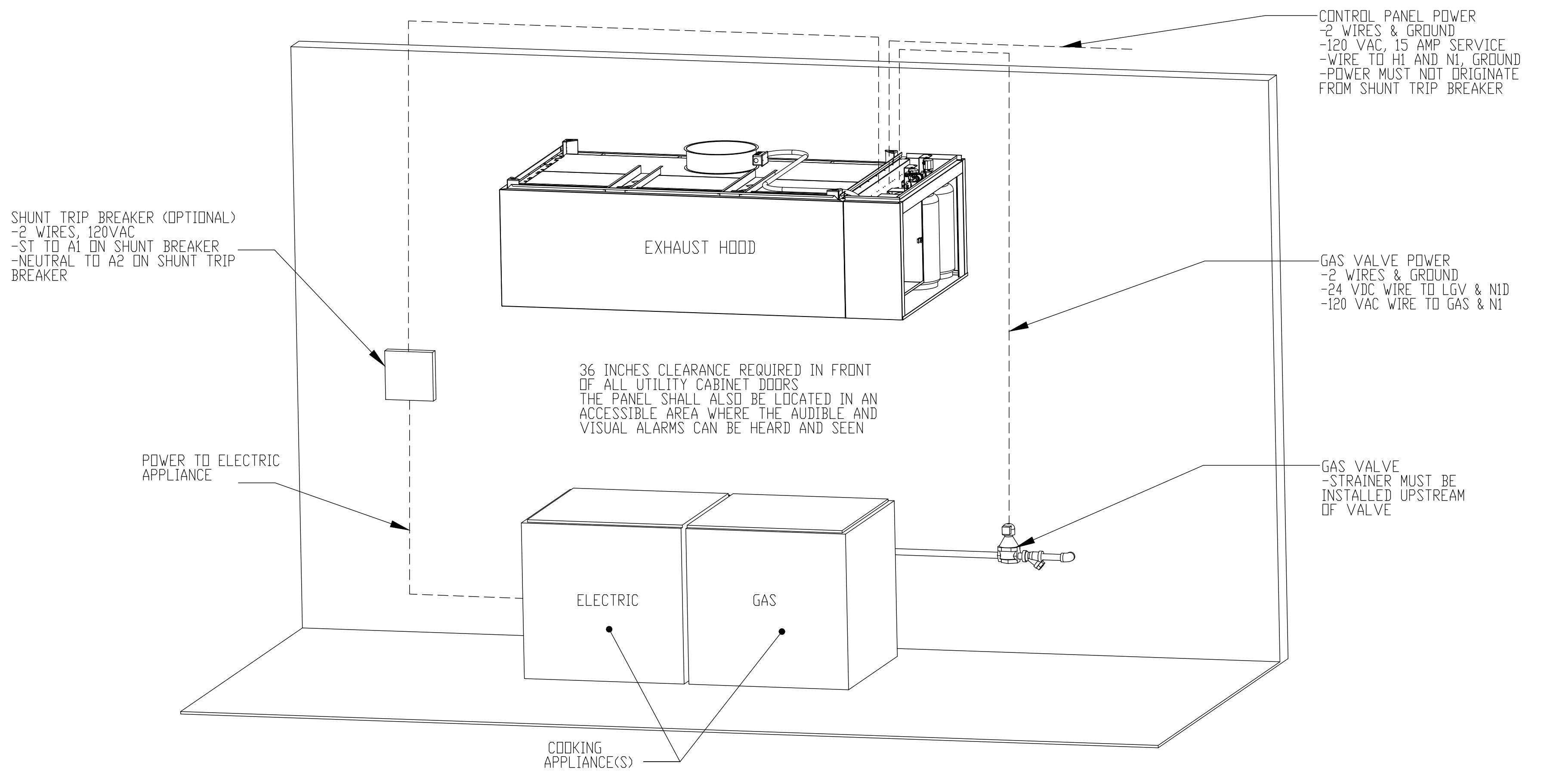
# TANK PROTECTION ELECTRICAL DETAIL

02/10/2021 Rev. 2

FS-1: MASTER

- ELECTRICIAN:  
 1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC  
 2. WIRE ALL FANS PER INCLUDED SCHEMATIC  
 3. WIRE SHUNT TRIP BREAKER (OPTIONAL)  
 4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)  
 5. WIRE GAS VALVE

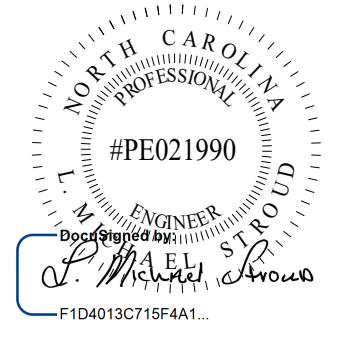
| ELECTRICAL CONTRACTOR REQUIREMENT      |  |                        |                      |            |   |
|--|--|------------------------|----------------------|------------|---|
| ITEM                                   | CONNECTION IN PANEL                            | CONNECTION IN DEVICE   | VOLTAGE              | AMPERAGE   | COMMENTS  |
| SHUNT TRIP BREAKER (OPTIONAL)          | ST & NI  | BREAKER COIL (A1 & A2) | 120 VAC              | < 4 AMPS   | ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL  |
| CONTROL PANEL POWER                    | H1 & NI + GROUND                               | CIRCUIT BREAKER        | 120 VAC              | 15 AMPS    | CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER  |
| UDS APPLIANCE KILL SWITCH (OPTIONAL)   | KTS & NI                                       | KTS & NI               | 120 VAC              | < 4 AMPS   | KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES  |
| REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL) | AU1, AU2                                       | SOLENOID               | 120 VAC              | < 6 AMPS   | 120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL   |
| GAS VALVE                              | LGV & NID (IF 24 VDC)<br>GAS & NI (IF 120 VAC) | RED/RED/GREEN          | 24 VDC<br>OR 120 VAC | < 1.0 AMPS | IF 24 VDC - 2 WIRES & GROUND, NID TO RED, LGV TO RED, AND GREEN TO GROUND<br>IF 120 VAC - 2 WIRES & GROUND GAS TO RED, NI TO RED, AND GREEN TO GROUND |



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

**1**  
**M204** KITCHEN HOOD ELECTRICAL DETAIL  
 SCALE: NONE

**STROUD ENGINEERING, P.A.**  
 422 HWY 24  
 MOKHEAD CITY, NC 28557  
 (252) 247-7479  
 LICENSE NO. C-0647



**L. MICHAEL STROUD, P.E.**

20 JANUARY, 2023



NC License #1919  
 Mailing Address:  
 424 E. Central Blvd, #542  
 Orlando, FL 32801  
 www.eleven8architecture.com  
 Physical Address:  
 1011 E. Colonial Dr. #307  
 Orlando, FL 32803  
 407.255.5300

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
 40 RAWLS CLUB RD  
 FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN8 PROJECT LEAD:  
**MATTHEW A. CONTE**  
 407-745-5301  
 mcont@eleven8architecture.com

PROJECT TEAM:  
 Gabriela Salazar  
 Pamela Friday  
 Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

**M204**  
 KITCHEN HOOD ELECTRICAL DETAIL



|  |                                   |                            |                                  |  |
|--|-----------------------------------|----------------------------|----------------------------------|--|
| JOB NO<br><b>5581799</b>                     | MODEL NUMBER<br><b>SC-31110MA</b> | DRAWN BY<br><b>INSTALL</b> | SCHEMATIC TYPE<br><b>INSTALL</b> | DESCRIPTION OF OPERATION:<br>Fire System #1 TANK FS - 4.0/4.0 Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood prewire panel. |
| JOB NAME<br><b>THE SPRINGS OF BALLENTINE</b> |                                   | DATE<br><b>8/2/2022</b>    | DWG NO<br><b>ECP #1-4</b>        |  |

02/10/2021 Rev. 2

## TANK PROTECTION LOW-VOLTAGE DETAIL

FS-1: MASTER

ALARM CONTRACTOR:  
1. WIRE MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS  
2. COMPLETE FINAL HOOKUP OF SYSTEM  
3. VERIFY FINAL FIRE SYSTEM TEST

| ALARM CONTRACTOR REQUIREMENT  |                            |                      |                              |              |   |
|-------------------------------|----------------------------|----------------------|------------------------------|--------------|---|
| ITEM                          | CONNECTION IN PANEL        | CONNECTION ON DEVICE | VOLTAGE                      | AMPERAGE     | COMMENTS  |
| MANUAL ACTUATION DEVICE(S)    | 101 AND 104<br>102 AND 103 | 1 & 2                | 24 VDC                       | < 1.0 AMPS   | WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 102 AND 103<br>WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 101 AND 104<br>JUMPER 101 TO 104 AND 102 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED   |
| MANUAL ACTUATION DEVICE COVER | N/A                        | N/A                  | N/A                          | N/A          | MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED<br>IF SURFACE MOUNTED, USE COVER EXTENSION STI-6531B  |
| REMOTE FIRESTAT SENSOR(S)     | 21 AND 24<br>22 AND 23     | BLACK AND WHITE      | 24 VDC                       | < 1.0 AMPS   | WIRE FIRE SENSOR WHITE WIRES BETWEEN HOOD CORE PANEL TERMINALS 22 AND 23<br>WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS 21 AND 24<br>HIGH TEMP (842°F) #CW04427 (WHT) & #CW04427B (BLK) WIRE OR SIMILAR ONLY IF RAN OVER TOP OF HOOD; OTHERWISE BELDEN #6320UL OR SIMILAR PLENUM RATED WIRE; SEE FIGURE 1 |
| FIRE ALARM CONTACT            | AL1, AL2                   | VARIES               | 50V MAX (AC/DC)              | UP TO 1 AMP  | FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE CORE ELECTRICAL CONTROL PANEL  |
| CORE INTERLOCK(S)             | ILA, ILB, ILC              | ILA, ILB, ILC        | RS-485 COMMUNICATIONS SIGNAL |              | CORE SYSTEM (1) ILA, TO CORE SYSTEM (2) ILA. CORE SYSTEM (1) ILB, TO CORE SYSTEM (2) ILB.<br>CORE SYSTEM (1) ILC, TO CORE SYSTEM (2) ILC. USE BELDEN# 88760 OR SIMILAR WIRE   |
| TROUBLE CONTACT               | TBC, TBL, TDK              | VARIES               | MAX 120 VAC                  | UP TO 6 AMPS | WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION  |
| CORE COMMUNICATIONS CABLE     | RJ-45 Jack                 | INTERNET CONNECTION  | SIGNAL                       | <1.0 AMPS    | TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION   |

**FIRE ALARM CONTACT**  
-2 WIRES WIRED TO NORMALLY OPEN CONTACTS (CLOSES IN FIRE CONDITION)  
-CORE CONTROL PANEL AL1 AND AL2  
-SEE FIGURE 2

**TROUBLE CONTACT**  
-2 WIRES TO NORMALLY OPEN CONTACTS (CLOSE IN TROUBLE CONDITION)  
-CORE PANEL TERMINALS TBL AND TBC  
-SEE FIGURE 4

**SUPERVISED LOOP**  
-4 WIRES, 24VDC CONNECT BLACK WIRES BETWEEN 21 AND 24 IN PANEL, CONNECT WHITE (OR RED) WIRES BETWEEN 22 AND 23 IN PANEL  
-ADDITIONAL FIRESTATS, WIRED IN SUPERVISED LOOP  
-USE HIGH TEMP (842°F) #CW04427 (WHT) & #CW04427B (BLK) WIRE ONLY IF RAN OVER TOP OF HOOD; OTHERWISE BELDEN #6320UL OR SIMILAR PLENUM RATED WIRE  
-SEE FIGURE 1

36 INCHES CLEARANCE REQUIRED IN FRONT OF ALL UTILITY CABINET DOORS  
THE PANEL SHALL ALSO BE LOCATED IN AN ACCESSIBLE AREA WHERE THE AUDIBLE AND VISUAL ALARMS CAN BE HEARD AND SEEN

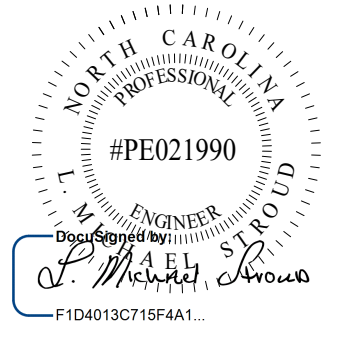
**ATTENTION:** LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES  
**NOTE:** SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

1  
M205 KITCHEN HOOD LOW VOLTAGE DETAIL  
SCALE: NONE

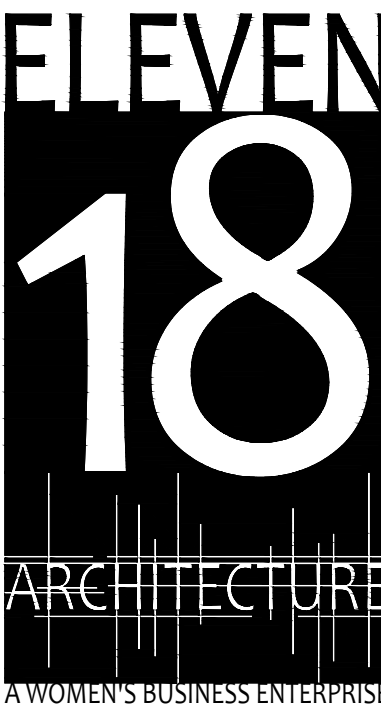
COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by law.

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MOKHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647

**L. MICHAEL STROUD, P.E.**



20 JANUARY,  
2023



NC License: 19199  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32805  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32805  
407.785.5300

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**

40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

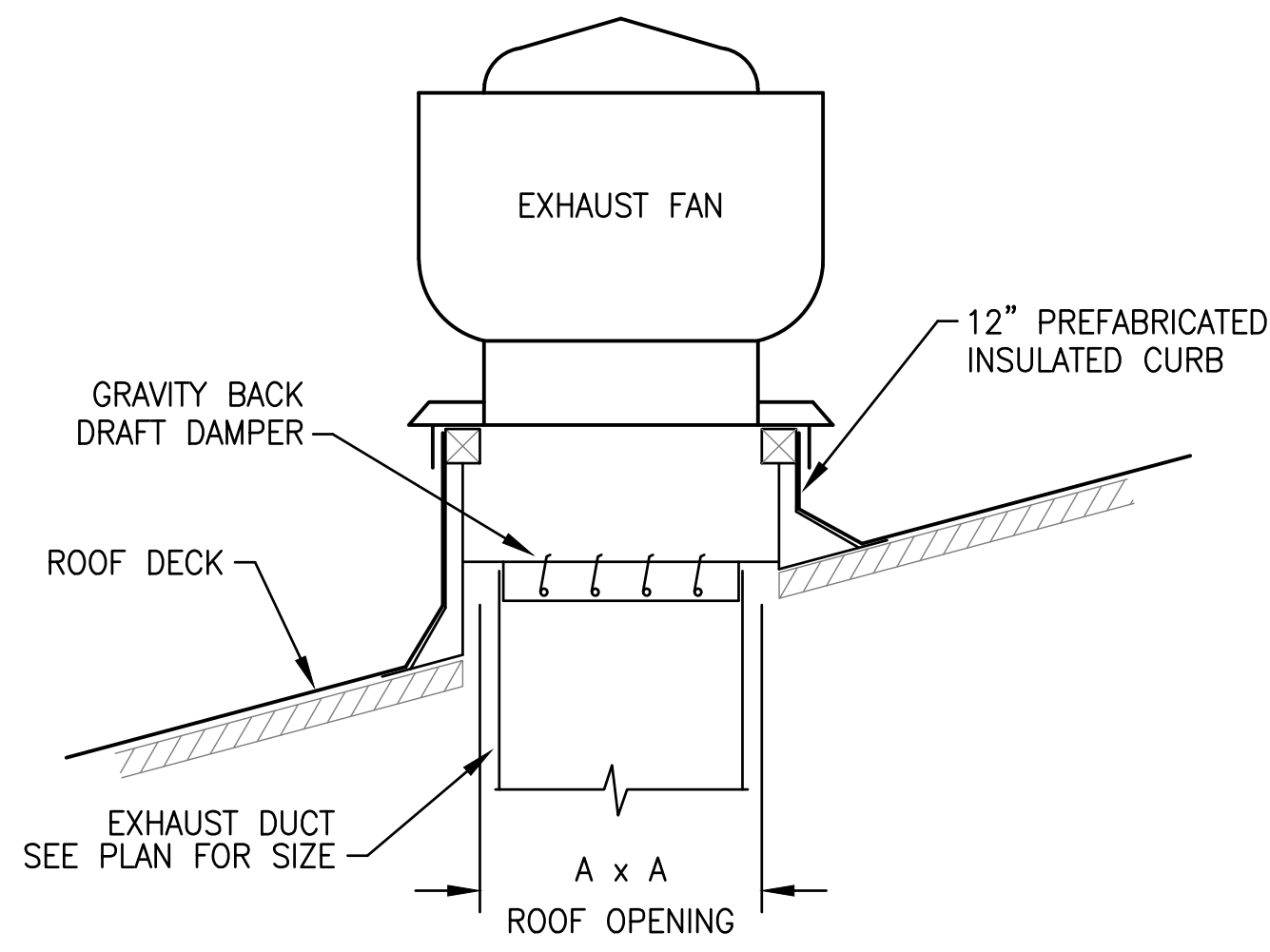
ELEVEN18 PROJECT LEAD:  
**MATTHEW A. CONTE**  
407-745-5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

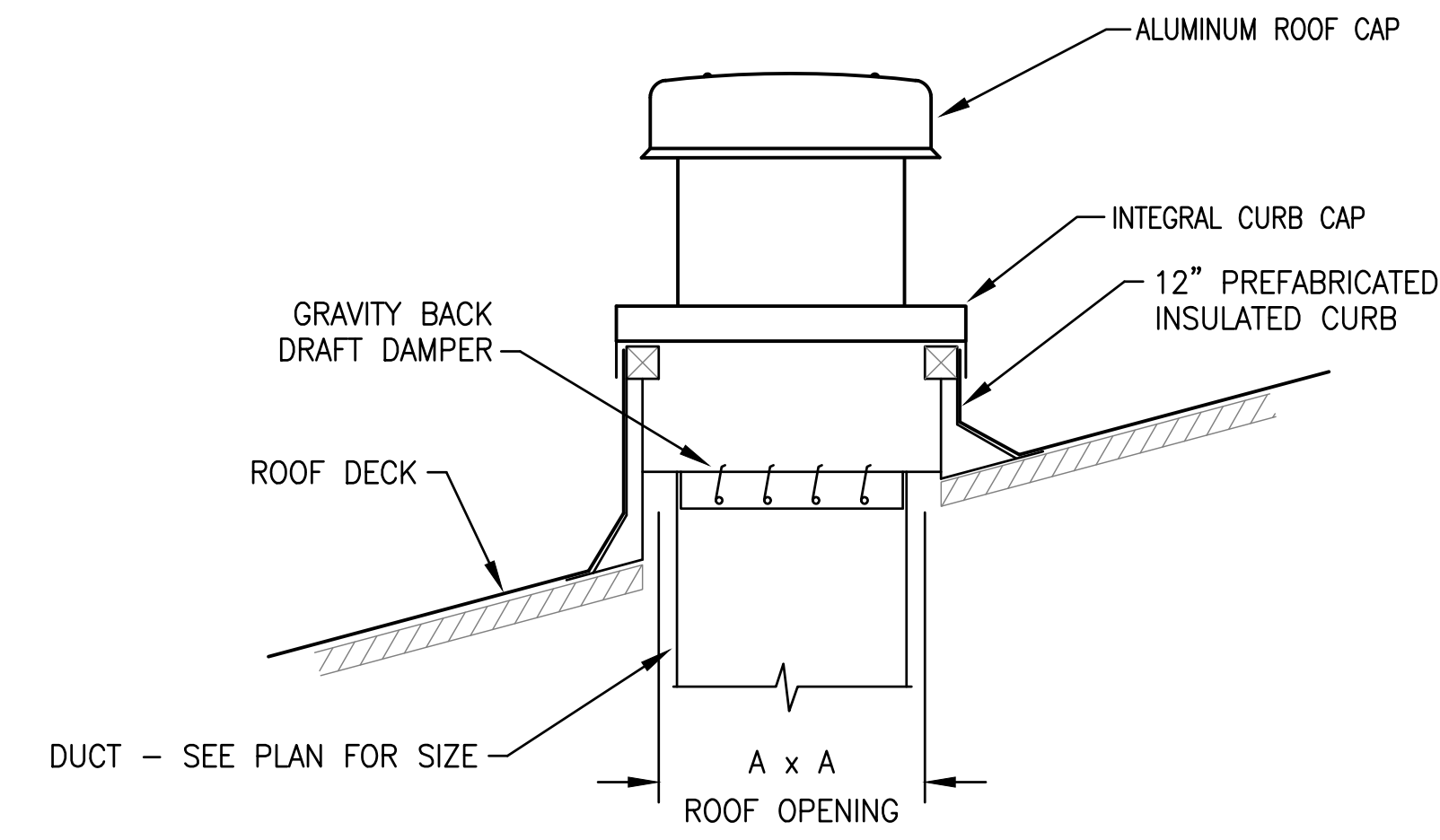
| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**M205**  
KITCHEN HOOD LOW VOLTAGE DETAIL

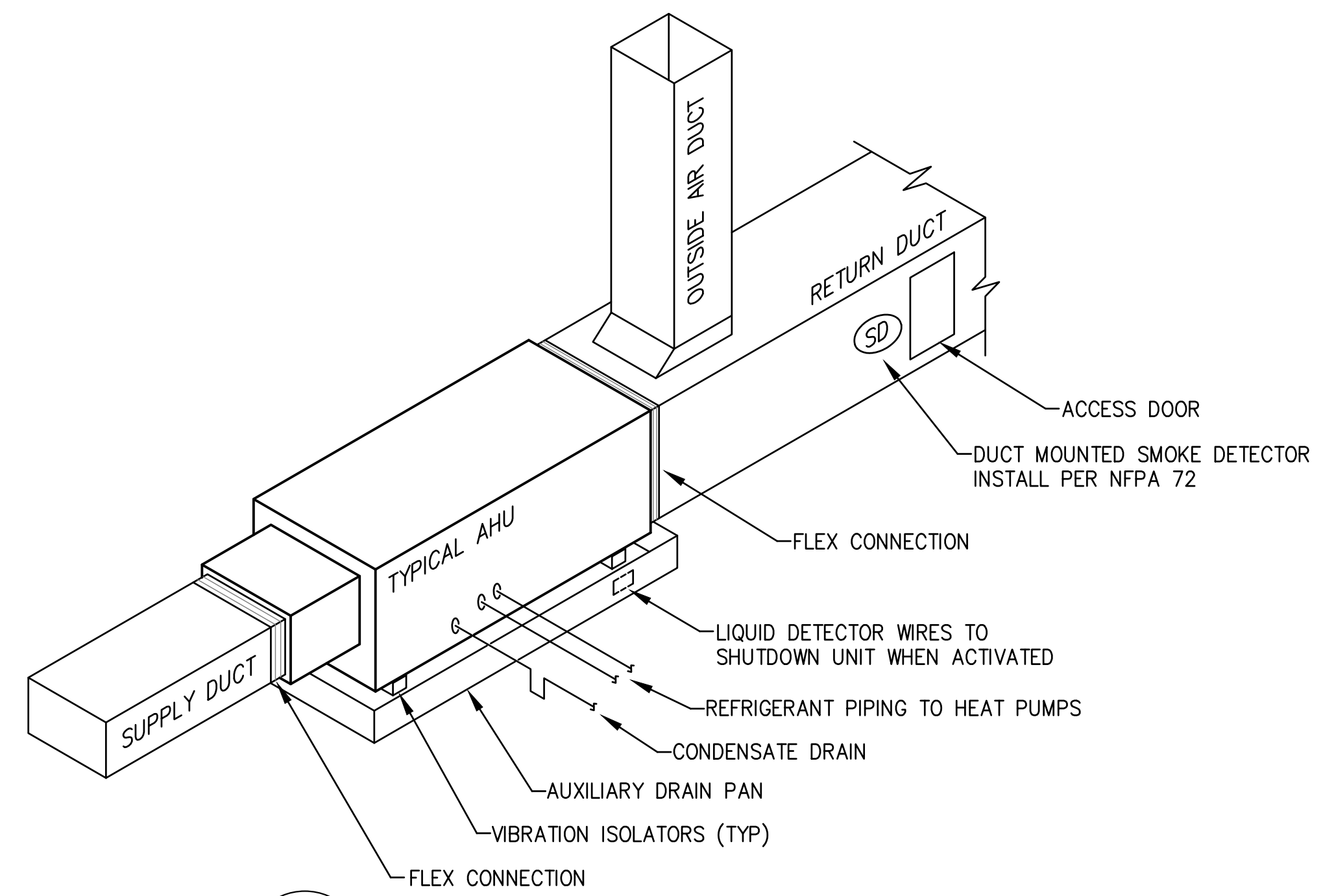




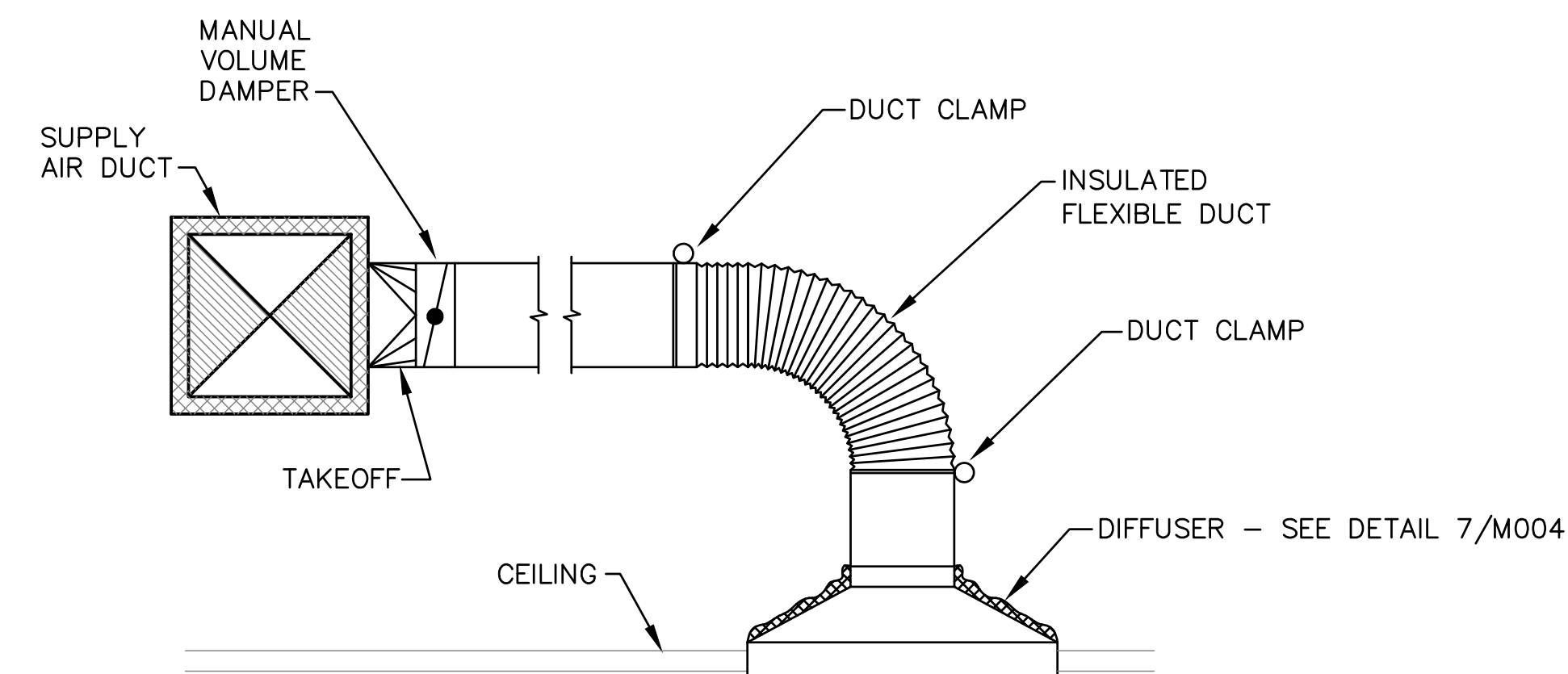
1 ROOF MOUNTED UPBLAST EXHAUST FAN DETAIL  
SCALE: NONE



2 GRAVITY INTAKE/RELIEF HOOD DETAIL  
SCALE: NONE



3 AIR HANDLER / INDOOR UNIT DETAIL  
SCALE: NONE

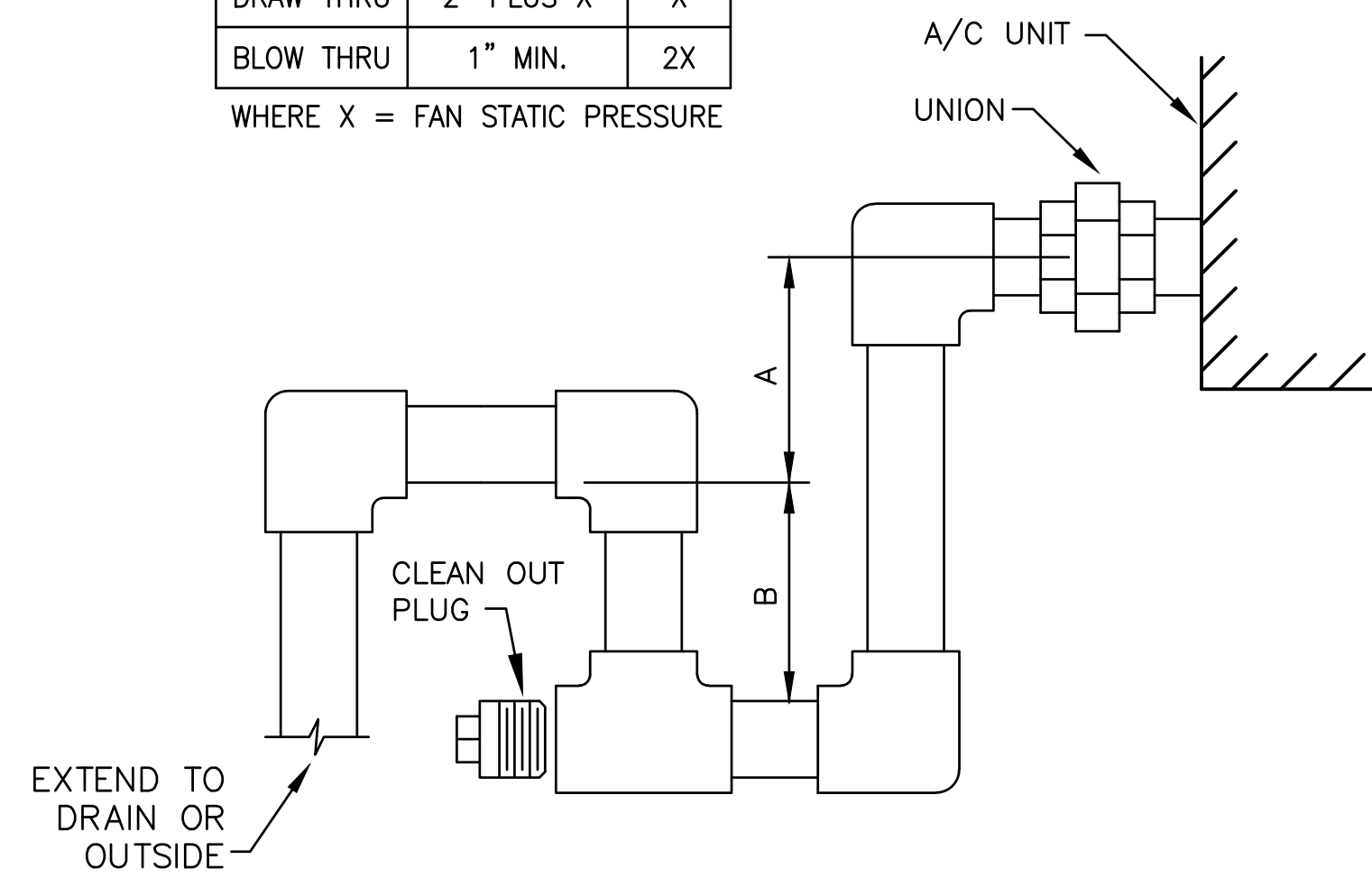


NOTE:  
1. COORDINATE DIFFUSER FRAME TYPE WITH CEILING.

4 TYPICAL DIFFUSER / GRILLE INSTALLATION DETAIL  
SCALE: NONE

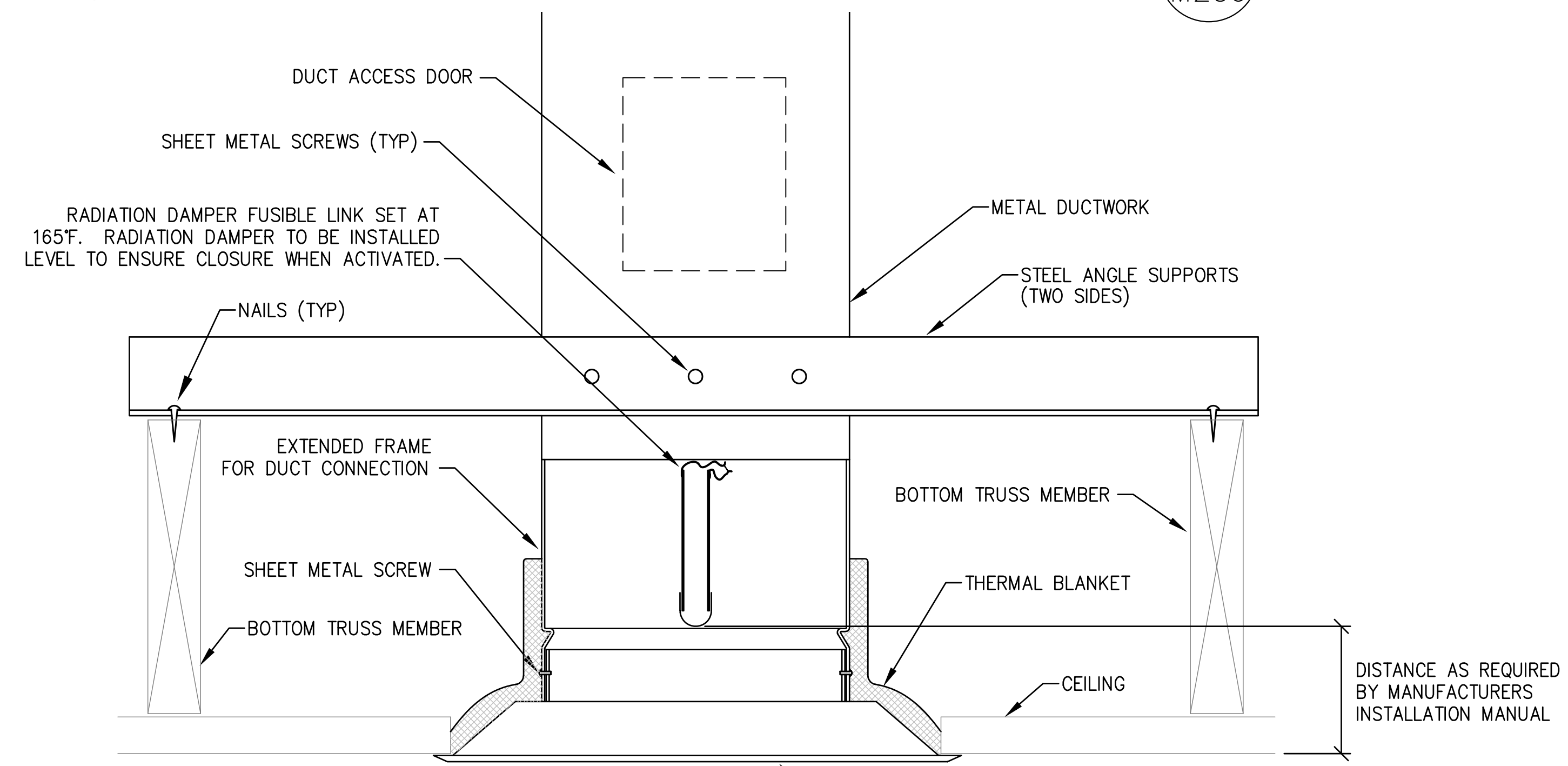
| UNIT TYPE | A         | B  |
|-----------|-----------|----|
| DRAW THRU | 2" PLUS X | X  |
| BLOW THRU | 1" MIN.   | 2X |

WHERE X = FAN STATIC PRESSURE

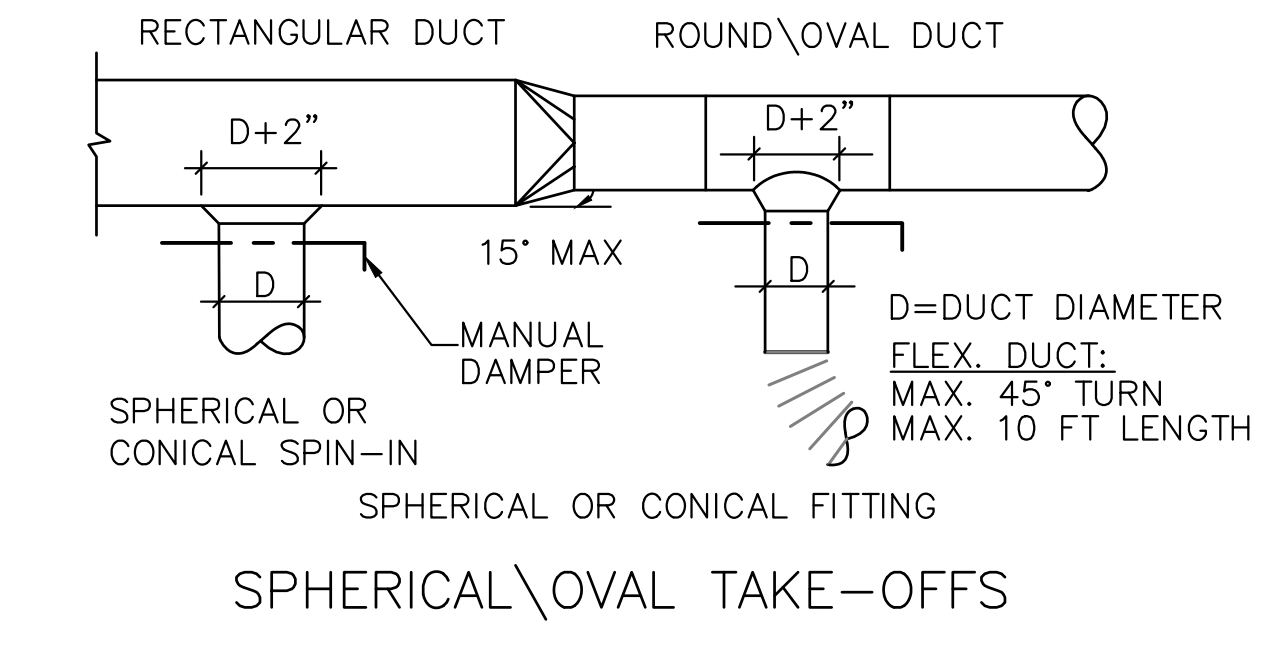


NOTE:  
CONDENSATE PIPE SHALL BE SCHEDULE 40 PVC WITH 1/2" ARMAFLEX INSULATION

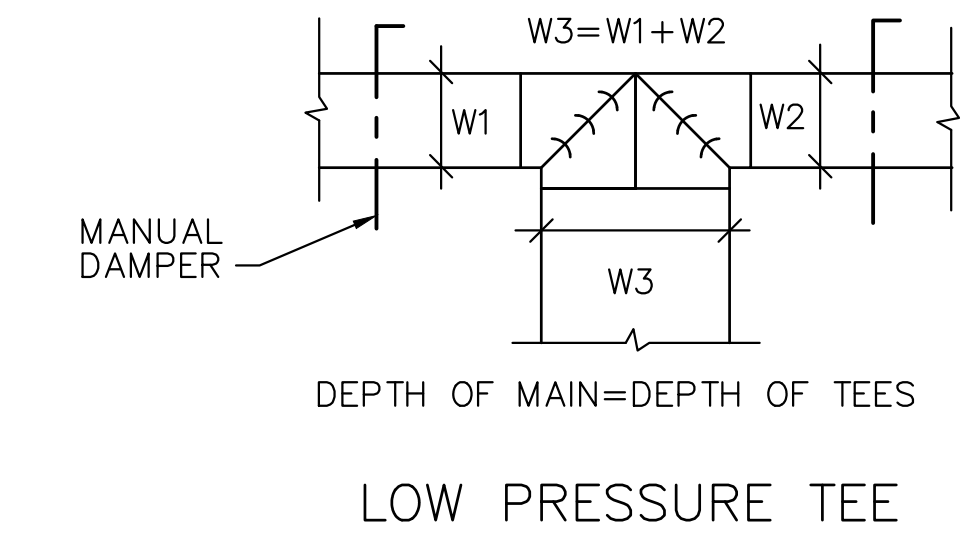
5 TYPICAL CONDENSATE DRAIN DETAIL  
SCALE: NONE



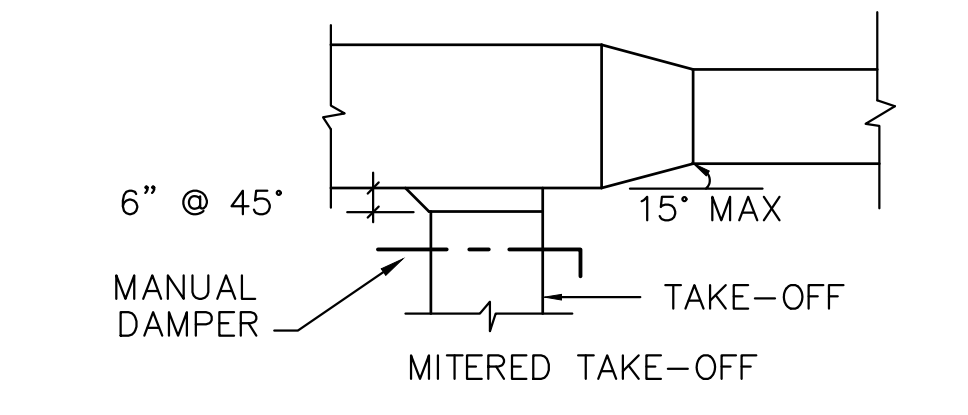
6 RADIATION DAMPER DETAIL  
SCALE: NONE



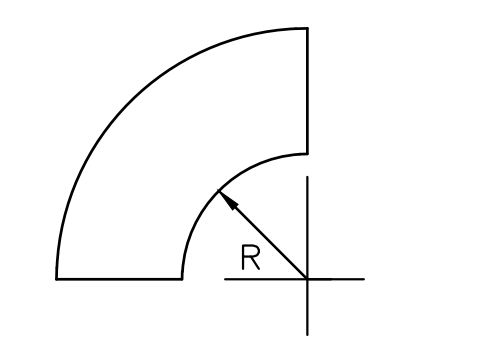
SPHERICAL/OVAL TAKE-OFFS



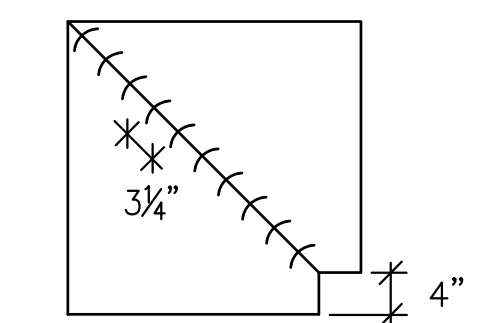
LOW PRESSURE TEE



SQUARE DUCT BRANCH TAKE-OFF



R=DUCT WIDTH  
FULL RADIUS ELBOW  
LOW PRESSURE



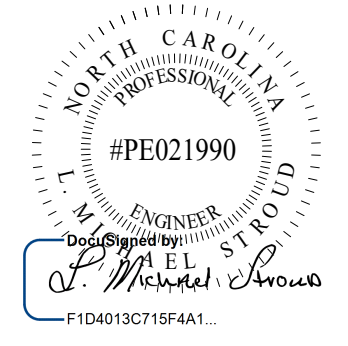
DOUBLE THICKNESS VANES ON HIGH PRESSURE DUCT  
SINGLE THICKNESS VANES ON LOW PRESSURE DUCT  
SECURE VANES EVERY 6" MAX. USE LARGE VANES UNLESS NOTED OTHERWISE  
SQUARE MITERED ELBOW DUCT ELBOWS

7 TYPICAL DUCT DETAILS  
SCALE: NONE

COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.

STROUD ENGINEERING, P.A.  
422 HWY 24  
MORRISTOWN, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647

L. MICHAEL STROUD, P.E.



20 JANUARY, 2023



NC License #1919  
Mailing Address:  
424 E. Central Blvd #542  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr. #307  
Orlando, FL 32803  
407.755.5300

PROJECT NAME:  
THE SPRINGS OF BALLENTINE  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

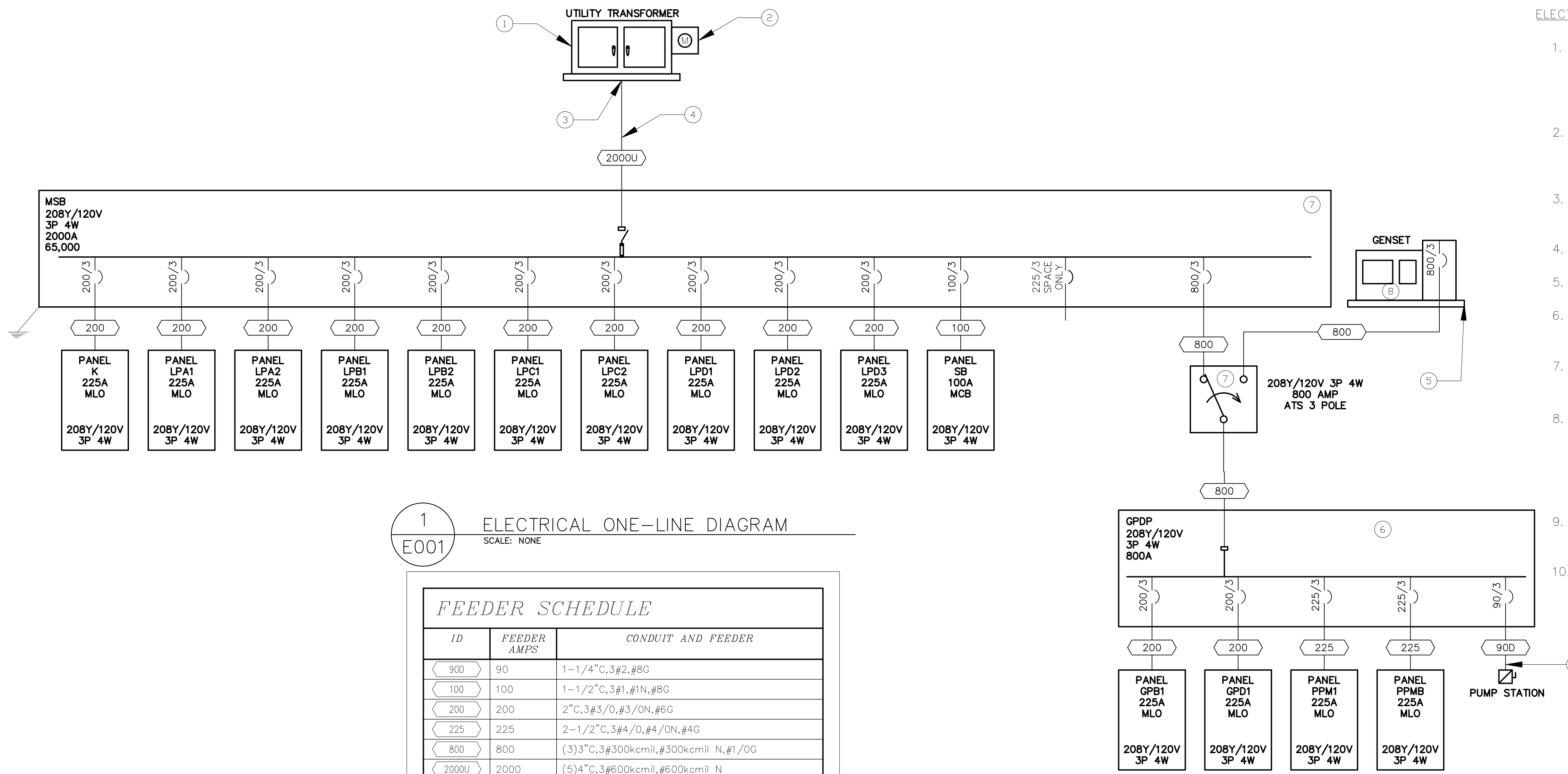
PROJECT CLIENT:  
CAROLINA COMMERCIAL CONTRACTORS

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407.745.5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Famela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |



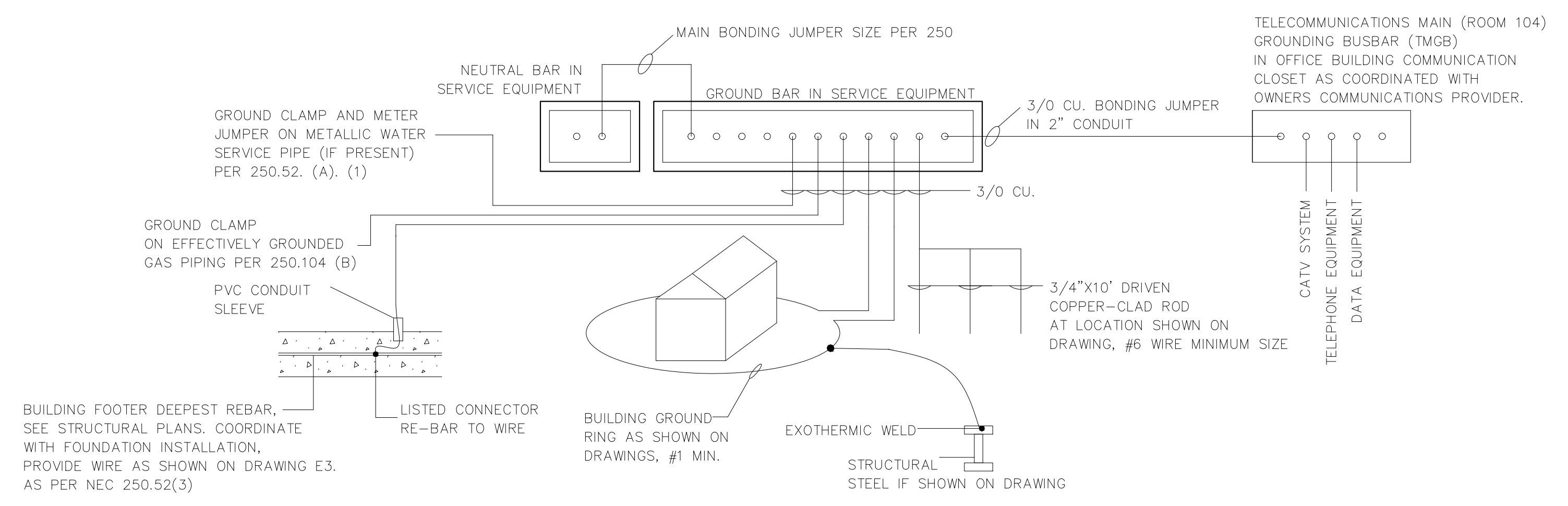


**1**  
E001  
**ELECTRICAL ONE-LINE DIAGRAM**  
SCALE: NONE

*FEEDER SCHEDULE*

| ID    | FEEDER AMPS | CONDUIT AND FEEDER                      |
|-------|-------------|---|
| 90D   | 90          | 1-1/4" C, 3#2, #8G                      |
| 100   | 100         | 1-1/2" C, 3#1, #1N, #8G                 |
| 200   | 200         | 2" C, 3#3/0, #3/0N, #6G                 |
| 225   | 225         | 2-1/2" C, 3#4/0, #4/0N, #4G             |
| 800   | 800         | (3)3" C, 3#300kcmil, #300kcmil N, #1/0G |
| 2000U | 2000        | (5)4" C, 3#600kcmil, #600kcmil N        |

SIZING METHOD: COPPER, 60°C #12 THROUGH #1, 75°C 1/0 AND ABOVE  
NOTE: SEE SHEET E503 FOR FULL PANEL LIST AND ALUMINUM WIRING ALTERNATES.



**2**  
E001  
**GROUNDING ELECTRODE DETAIL**  
SCALE: NONE

**ELECTRICAL PLAN NOTES**

- UTILITY TRANSFORMER AND PRIMARY FEED PROVIDED BY POWER COMPANY. 300 KVA 120/208 23,800 S.C.C. VERIFY S.C.C. WITH POWER COMPANY PRIOR TO ORDERING. NOTIFY ENGINEERING IF LARGER THAN NOTED HERE.
- METERING PROVIDED BY POWER COMPANY INSTALLATION AND MOUNTING OF CONDUIT COORDINATED WITH POWER COMPANY.
- UTILITY TRANSFORMER PAD PROVIDED BY POWER COMPANY.
- SECONDARY PROVIDED BY CONTRACTOR.
- GENERATOR PAD DESIGN PROVIDED BY OTHERS.
- SEE PANEL SCHEDULE ON SHEET E504 AND DRAWING FOR ADDITIONAL CIRCUITS FROM THIS PANEL.
- PROVIDE 4" HOUSEKEEPING PAD WITH 3" OVERHANG ON (3) SIDES OF "MSB" AND (3) SIDES OF "ATS."
- GENERATOR OF DESIGN IS A UL-2200 LISTED KOHLER MODEL: 250RE0ZJE, W/ 4UA10 ALTERNATOR 250KW/313KVA, 120/208V 3φ 4W ALUMINUM ENCLOSURE, UL-142 LISTED 96 HOUR SUB BASE FUEL TANK PROVIDE STAIRS AND PLATFORM ON BOTH SIDES OF GENERATOR.
- ATS OF DESIGN IS A KOHLER MODEL NUMBER: KSS-ACTA-0800S, UL-1008 LISTED.
- FEEDER SIZE TO SEWER LIFT STATION SHALL BE CONFIRMED WITH CIVIL ENGINEER PRIOR TO INSTALLATION. FINAL DESIGN OF SEWER LIFT STATION NOT COMPLETE AT TIME OF THIS ELECTRICAL DESIGN.

**SYMBOL LEGEND:**

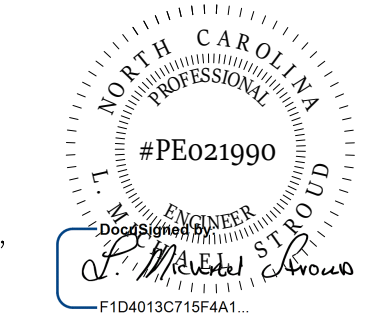
- GROUND
- NON-FUSED SWITCH
- FUSED SWITCH 30A, 60A, OR 100A AS REQUIRED

**ABBREVIATIONS:**

- AIC AMPS INTERRUPTING CAPACITY
- AF AMP FUSE
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AT AMP TRIP
- AWG AMERICAN WIRE GAGE
- E.C. ELECTRICAL CONTRACTOR
- EHH ELECTRICAL HAND HOLE
- G GROUND
- KVA KILOVOLT AMPERE
- KW KILOWATT
- MIN MINIMUM
- (N) NEW
- NEC NATIONAL ELECTRIC CODE (NFPA 70)
- NIC NOT IN CONTRACT
- NTS NOT TO SCALE
- PB PULL BOX
- RCPT RECEPTACLE
- T TRANSFORMER
- TYP TYPICAL
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
- U.O.N. UNLESS OTHERWISE NOTED
- V VOLT
- VIF VERIFY IN FIELD
- W WATT
- WP WEATHERPROOF

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MCKEHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647

**L. MICHAEL STROUD, P.E.**



20 JANUARY, 2023

Matthew A Conte, AIA  
NC. REG.#15129



NC License: 9199  
Mailing Address:  
424 E. Central Blvd, #542  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.755.5300

**PROJECT NAME:**  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

**PROJECT CLIENT:**  
**CAROLINA COMMERCIAL CONTRACTORS**

**ELEVEN18 PROJECT LEAD:**  
**MATTHEW A. CONTE**  
407-745-5301  
mcont@eleven18architecture.com

**PROJECT TEAM:**  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

**REVISIONS**

| #  | DATE      | DESC.            |
|----|-----------|------------------|
| -- | --        | PERMIT SUBMITTAL |
|    | DATE      | DESC.            |
| 1  | 1/20/2023 | REVISION 1       |
| 2  | 3/13/2023 | REVISION 2       |

**E001**  
ELECTRICAL COVER







**PART 4 WIRING DEVICES/DATA/COMMUNICATIONS OUTLETS**

**4.01 GENERAL REQUIREMENTS**

- A. THE LOCATION OF ALL WIRING DEVICES AND TELEPHONE /DATA OUTLETS SHALL BE VERIFIED BEFORE INSTALLATION WITH THE ARCHITECT/OWNER. THE ARCHITECT/OWNER, AT THEIR OPTION, RELOCATE ANY DEVICE WITHIN 6 FEET AT NO CHARGE TO THE OWNER.
- B. WHERE TWO OR MORE DEVICES ARE SHOWN TOGETHER ON THE PLANS, A MULTI-GANG BOX AND PLATE SHALL BE USED. DEVICE OF DIFFERENT VOLTAGES SHALL BE SEPARATED BY PERMANENTLY INSTALLED BOX PARTITIONS.
- C. ALL OUTLETS SHOWN ON A WALL BACK TO BACK SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY.
- D. ALL MOUNTED WIRING DEVICES SHALL BE INDICATED BY HUBBELL CATALOG NUMBERS WITH EQUALS IN LEVITON , LEGRAND ACCEPTABLE. COLOR'S AND FINISHES SHALL BE VERIFIED PRIOR TO ORDERING.
- E. WALL AND CEILING MOUNTED OCCUPANCY/VACANCY SENSORS ARE INDICATED ON DRAWING SCHEDULES.
- F. DEVICE PLATES SHALL BE SMOOTH PLASTIC (NYLON) WITH COLOR MATCHING DEVICE INSTALLED.
- G. WEATHERPROOF COVERS FOR WET LOCATIONS, GASKETED, CAST ALUMINUM OR THERMOPLASTIC, WITH HINGED LOCKABLE COVERS AND CORROSION RESISTANT SCREWS. LISTED AS SUITABLE FOR USE IN WET LOCATIONS WHILE IN USE WITH ATTACHMENT PLUGS CONNECTED.
- H. COORDINATE LIGHT SWITCHES SHOWN ON DRAWINGS AND FIELD VERIFY WITH FINAL DOOR SWINGS. LOCATE LIGHT SWITCH ON LOCK SIDE OF DOOR UNLESS INDICATED.
  - 1. VERIFY OUTLET BOXES ARE INSTALLED IN PROPER LOCATIONS AND AT PROPER MOUNTING HEIGHTS AND ARE PROPERLY SIZED TO ACCOMMODATE DEVICES AND CONDUCTORS IN ACCORDANCE WITH NFPA 70.
  - 2. WHERE COVER PLATES FOR ALL DEVICES CONFLICT WITH CASEWORK OR MILLWORK, THE MOUNTING HEIGHTS OF WIRING DEVICES SHALL BE SLIGHTLY ADJUSTED SO THAT THE COVER PLATES CLEAR THE BACKSPASH BY 1/4". THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY REVIEW THE CASEWORK DRAWINGS AND ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN OF OUTLET BOXES.
  - 3. VERIFY FINAL SURFACE FINISHES ARE COMPLETE, INCLUDING PAINTING.
  - 4. INSTALL WIRING DEVICES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  - 5. INSTALL PERMANENT BARRIER BETWEEN GANGED WIRING DEVICE WHEN THE VOLTAGE BETWEEN ADJACENT DEVICES EXCEEDS 300V.
  - 6. CONNECT WIRING DEVICES BY WRAPPING CONDUCTOR CLOCKWISE 3/4 TURN AROUND SCREW TERMINAL AND TIGHTENING TO PROPER TORQUE SPECIFIED BY THE MANUFACTURER. DO NOT USE PUSH-IN PRESSURE THAT DO NOT RELY ON SCREW-ACTUATED BINDING.
  - 7. CONNECT WIRING DEVICE GROUNDING TERMINAL TO BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR AND TO OUTLET BOX WITH BONDING JUMPER.
  - 8. PROVIDE GFCI RECEPTACLES WITH INTEGRAL GFCI PROTECTION AT EACH LOCATION INDICATED. DO NOT USE FEED THRU WIRING FOR DOWNSTREAM PROTECTION.
  - 9. INSTALL ALL DEVICES AND PLATES PLUMB AND LEVEL AND MOUNTING YOKE RIGIDLY IN PLACE. INSTALL ALL SWITCHES WITH OFF POSITION DOWN.
  - 10. INSTALL VERTICAL MOUNTED RECEPTACLES WITH GROUNDING POLE ON TOP AND HORIZONTAL MOUNTED RECEPTACLES WITH GROUNDING ON THE LEFT.
  - 11. INSTALL BLANK WALL PLATES ON JUNCTION BOXES WITH NO WIRING DEVICES INSTALLED OR DESIGNATED FOR FUTURE.
  - 12. ADJUST PRESETS FOR WALL DIMMERS ACCORDING TO MANUFACTURER INSTRUCTIONS AS DIRECTED BY OWNER.

**PART 5 SUPPORTING DEVICES**

**5.01 GENERAL REQUIREMENTS**

- A. COORDINATE WITH THE BUILDING STRUCTURAL SYSTEM AND WITH OTHER ELECTRICAL INSTALLATIONS.
- B. ALL ASSEMBLIES SHALL BE UL APPROVED, MANUFACTURER RECOMMENDED, OR APPROVED BY AHJ.

**PART 6 ELECTRICAL IDENTIFICATIONS**

**6.01 GENERAL REQUIREMENTS**

- A. CONDUCTOR COLOR CODING: PROVIDE COLOR CODING OF FEEDERS AND BRANCH CIRCUIT CONDUCTORS AS FOLLOWS:
 

|               |           |
|---------------|-----------|
| 208/120 VOLTS | PHASE     |
| BLACK         | A         |
| RED           | B         |
| BLUE          | C         |
| WHITE         | NEUTRAL   |
| GREEN         | GROUND    |
| PURPLE        | TRAVELERS |
- B. FOR PANELBOARDS: PROVIDE FRAMED, TYPED CIRCUIT SCHEDULES WITH EXPLICIT DESCRIPTIONS AND IDENTIFICATION OF ITEMS CONTROLLED BY EACH INDIVIDUAL BREAKER.
- C. IDENTIFICATION REQUIREMENTS:
  - 1. USE IDENTIFICATION NAMEPLATES TO IDENTIFY EACH PIECE OF ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT AND ASSOCIATED SECTIONS, COMPARTMENTS, AND COMPONENTS.
    - a. MOTOR CONTROL STARTERS:
      - 1. IDENTIFY AMPERE RATING.
      - 2. IDENTIFY VOLTAGE AND PHASE.
      - 3. IDENTIFY POWER SOURCE AND CIRCUIT NUMBER, INCLUDING LOCATION.
    - b. PANELBOARDS:
      - 1. IDENTIFY VOLTAGE AND PHASE.
      - 2. IDENTIFY AMPERE RATING.
      - 3. IDENTIFY POWER SOURCE AND CIRCUIT NUMBER, INCLUDE LOCATION.
      - 4. USE TYPE WRITTEN CIRCUIT DIRECTORY TO IDENTIFY LOADS(S) SERVED FOR PANELBOARDS WITH A DOOR. IDENTIFY SPARES AND SPACES USING PENCIL.
      - 5. PROVIDE ADDITIONAL IDENTIFICATION ON ALL PANELS SERVED BY GENERATOR STAND-BY POWER.
    - c. WIRING DEVICES:
      - 1. IDENTIFY VOLTAGE AND PHASE.
      - 2. IDENTIFY POWER SOURCE AND CIRCUIT NUMBER.
      - 3. USE PERMANENT IDENTIFICATION LABELS ON WIRING DEVICE PLATES VISIBLE ON DEVICE PLATES OR INSIDE PLATES AS DETERMINED BY AHJ, AND OWNER.
      - 4. PROVIDE ADDITIONAL IDENTIFICATION ON ALL DEVICES SERVED FROM GENERATOR STAND-BY POWER.

**PART 7 GROUNDING**

**7.01 GENERAL REQUIREMENTS**

- A. GROUND ELECTRICAL SYSTEMS AND EQUIPMENT IN ACCORDANCE THE MINIMUM NEC REQUIREMENTS OR AS INDICATED ON DRAWING.
- B. CONNECTORS APPROPRIATE AND SUITABLE FOR THE CONDUCTORS AND ITEMS TO BE CONNECTED, LISTED AND LABELED AS COMPLYING WITH UL 467.
- C. ALL GROUNDING CONDUCTORS SHALL BE INSTALLED AS TO PERMIT SHORTEST PATH FROM EQUIPMENT TO GROUND. ALL MECHANICAL CONNECTIONS TO GROUND CONDUCTORS SHALL BE ACCESSIBLE FOR INSPECTION AND MADE WITH APPROVED SOLDERLESS CONNECTORS. ALL NON- ACCESSIBLE GROUND CONNECTIONS SHALL BE EXOTHERMIC WELDED OR CONNECTED BY OTHER LISTED FITTINGS APPROVED BY AHJ .
- D. ALL CONTACT SURFACES SHALL BE THOROUGHLY CLEANED BEFORE CONNECTIONS ARE MADE TO INSURE GOOD METAL TO METAL CONTACT.
- E. EXOTHERMIC GROUNDING CONNECTIONS SHALL BE INSTALLED WITH LISTED, WELDING "SHOTS" AND WELDING MOLDS LISTED FOR EACH WELD LOCATION.
- F. ALL CIRCUITS SHALL CONTAIN AN INSULATED GROUNDING CONDUCTOR IN BRANCH CIRCUIT AND FEEDER CONDUITS USED.
- G. ALL GROUND RODS SHALL BE 5/8" X 10' CU. CLAD, LACE AT 10' SPACING WHEN SHOWN ON DRAWINGS.

**PART 8 PANELBOARDS**

**8.01 GENERAL REQUIREMENTS**

- A. PANELBOARD CIRCUITING SHALL MATCH THE DRAWINGS. CIRCUITING CHANGES MUST BE APPROVED BY THE ARCHITECT/OWNER.
- B. ALL BREAKERS IN PROJECT SHALL BE NEW AND MATCH PANEL MANUFACTURER AND AIC RATING.
- C. ALL PANELBOARDS AND DISTRIBUTION BOARDS SHALL HAVE ALUMINUM BUSSING AS MINIMUM STANDARD.
- D. ALL PANELBOARDS AND DISTRIBUTION BOARDS AND OVER CURRENT DEVICES SHALL BE FULLY RATED FOR AIC AS SHOWN ON SCHEDULES AND DRAWINGS SERIES RATED EQUIPMENT IS NOT PERMITTED.
- E. PROVIDE TYPE WRITTEN LEGENDS WITHIN OR ON DOORS OF ALL DISTRIBUTION EQUIPMENT PANELS AFTER ALL INSTALLATION AND CONNECTION HAVE BE ACCEPTED BY OWNER AND ALL AHJ'S.
- F. WIRING WITHIN ALL DISTRIBUTION EQUIPMENT SHALL BE IN A NEAT AND WORKMANSHIP MANNER AS PER ACCEPTED INDUSTRY STANDARDS. ALL EQUIPMENT ALSO BE CLEANED PRIOR TO FINAL ACCEPTANCE BY OWNER .

**PART 9 SAFETY AND SERVICE DISCONNECT SWITCHES**

**9.01 GENERAL REQUIREMENTS**

- A. ALL SAFETY AND SERVICE DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE RATED.
- B. FUSES < 600 AMPS SHALL BE ("BUSSMAN") RK1 OR APPROVED EQUAL.

**PART 10 LIGHTING**

**10.01 GENERAL REQUIREMENTS**

- A. ALL NEW LIGHTING FIXTURES SHALL BE INSTALLED WITH ALL ACCESSORIES REQUIRED TO PROVIDE A COMPLETE INSTALLATION. SEE PLANS FOR SPECIFIC REQUIREMENTS. COLOR OF LIGHTING FIXTURES SHALL BE 4000°K OR 3000°K AS VERIFIED BY ARCHITECT/OWNER.

**PART 11 FIRESTOPPING**

**11.01 GENERAL REQUIREMENTS**

- A. FIRESTOPPING OF JOINTS AND PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS AND CEILING ASSEMBLIES WHETHER INDICATED ON DRAWINGS OR NOT, AND OTHER OPENINGS INDICATED.
  - 1. REFERENCE STANDARDS
    - 1. ASTM E2174 - STANDARD PRACTICE FOR ON-SITE INSPECTION OF INSTALLED FIRESTOP SYSTEMS; 2020a.
    - 2. ASTM G21 - STANDARD PRACTICE FOR DETERMINING RESISTANCE OF SYNTHETIC POLYMERIC MATERIALS TO FUNGI; 2015, WITH EDITORIAL REVISION (2021.)
  - 2. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS: INDICATE PREPARATION, INSTALLATION INSTRUCTIONS, AND MANUFACTURER'S QUALIFICATION STATEMENT.
  - 3. APPROVAL FROM AUTHORITY HAVING JURISDICTION INDICATED APPROVAL OF MATERIALS USED.
  - 4. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.
  - 5. MANUFACTURERS
    - 1. FIRESTOPPING MANUFACTURERS:
      - a. 3M FIRE PROTECTION PRODUCTS; www.3m.com/firestop/#sle.
      - b. HILTI, INC.; www.hilti.com/#sle
      - c. HOLDRITE, A BRAND OF RELIANCE WORLDWIDE CORPORATION; HYDROFLAME 100 INTUMESCENT FIRESTOP SEALANT; www.holdrite.com/#sle
      - d. MANUFACTURER AS APPROVED BY ARCHITECT/ENGINEER.
  - 6. MATERIALS
    - 1. USE FIRESTOPPING MATERIALS: ANY MATERIALS MEETING REQUIREMENTS.
    - 2. MOLD AND MILDEW RESISTANCE: PROVIDE FIRESTOPPING MATERIALS WITH MOLD AND MILDEW RESISTANCE RATING OF ZERO (0) IN ACCORDANCE WITH ASTM G21.
    - 3. PRIMERS, SLEEVES, FORMS, INSULATION, PACKING, STUFFING, AND ACCESSORIES: PROVIDE TYPE OF MATERIALS AS REQUIRED FOR TESTED FIRESTOPPING ASSEMBLY.
    - 4. FIRE RATINGS: REFER TO DRAWINGS FOR REQUIRED SYSTEMS AND RATINGS.
  - 7. FIRESTOPPING SYSTEMS
    - 1. INSTALL MATERIALS IN A MANNER DESCRIBED IN FIRE TEST REPORT AND IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, COMPLETELY CLOSING OPENINGS.
    - 2. DO NOT COVER INSTALLED FIRESTOPPING UNTIL INSPECTED BY OWNER'S INDEPENDENT TESTING AGENCY.
    - 3. DO NOT COVER INSTALLED FIRESTOPPING UNTIL INSPECTED BY AUTHORITIES HAVING JURISDICTION.
    - 4. CLEANING: CLEAN ADJACENT SURFACES OF FIRESTOPPING MATERIALS.

**PART 12 EQUIPMENT CONNECTION**

**12.01 GENERAL REQUIREMENTS**

- A. ALL EQUIPMENT PROVIDED ON THIS PROJECT SHALL HAVE MANUFACTURER TERMINATIONS RATED AT 75°C.

**PART 13 RECORD DRAWINGS**

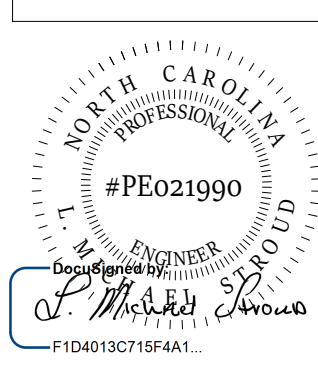
**13.01 GENERAL REQUIREMENTS**

- A. DURING THE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF ELECTRICAL CONTRACT DRAWINGS ON WHICH SHALL BE RECORDED ALL, BUT NOT LIMITED TO, SIGNIFICANT CHANGES IN EQUIPMENT LOCATIONS, CIRCUIT ASSIGNMENT DEVIATIONS, EQUIPMENT SIZE CHANGES, ADDITIONS AND DELETIONS TO THE PROJECT. LOCATIONS OF ALL CONDUITS AND WIRING BELOW GRADE, LOCATIONS OF ALL INSTALLED PULL AND JUNCTION BOXES, FEEDER CIRCUIT LOCATIONS, ETC. THIS SET OF DRAWINGS SHALL BE USED TO PREPARE RECORD DRAWINGS TO BE SUBMITTED TO THE OWNER UPON COMPLETION OF THE PROJECT.
- B. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PREPARE AN OPERATION AND MAINTENANCE MANUAL WHICH SHALL INCLUDE CATALOG DATA, EQUIPMENT INFORMATION, WIRING DIAGRAMS, WARRANTY INFORMATION, RECOMMENDED MAINTENANCE PROCEDURES, REPLACEMENT PARTS LISTS, ETC. FOR THE ELECTRICAL INSTALLATION. THE QUANTITIES OF MANUALS SHALL BE AS REQUIRED BY THE ARCHITECTURAL SECTIONS OF THESE SPECIFICATIONS. THESE MANUALS SHALL BE DELIVERED TO THE ARCHITECT FOR APPROVAL AND PRESENTATION TO THE OWNER.

**STROUD ENGINEERING, P.A.**

422 HWY 24  
MOKREHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647

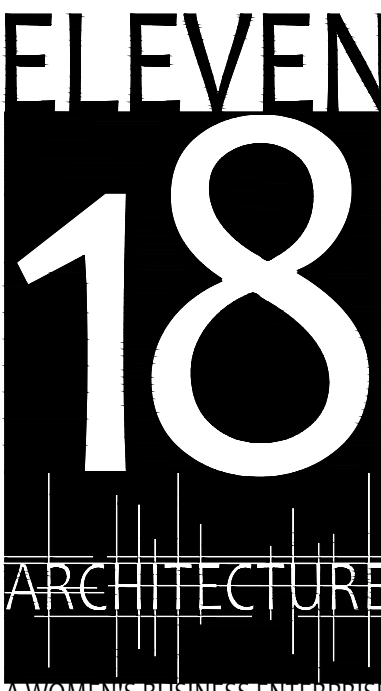
**L. MICHAEL STROUD, P.E.**



COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by law.

**20 JANUARY, 2023**

Matthew A Conte, AIA  
NC. REG.#15129



NC License: 9199  
Mailing Address:  
424 E. Central Blvd, #542  
Orlando, FL 32805  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr. #307  
Orlando, FL 32805  
407.755.5301  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**

40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

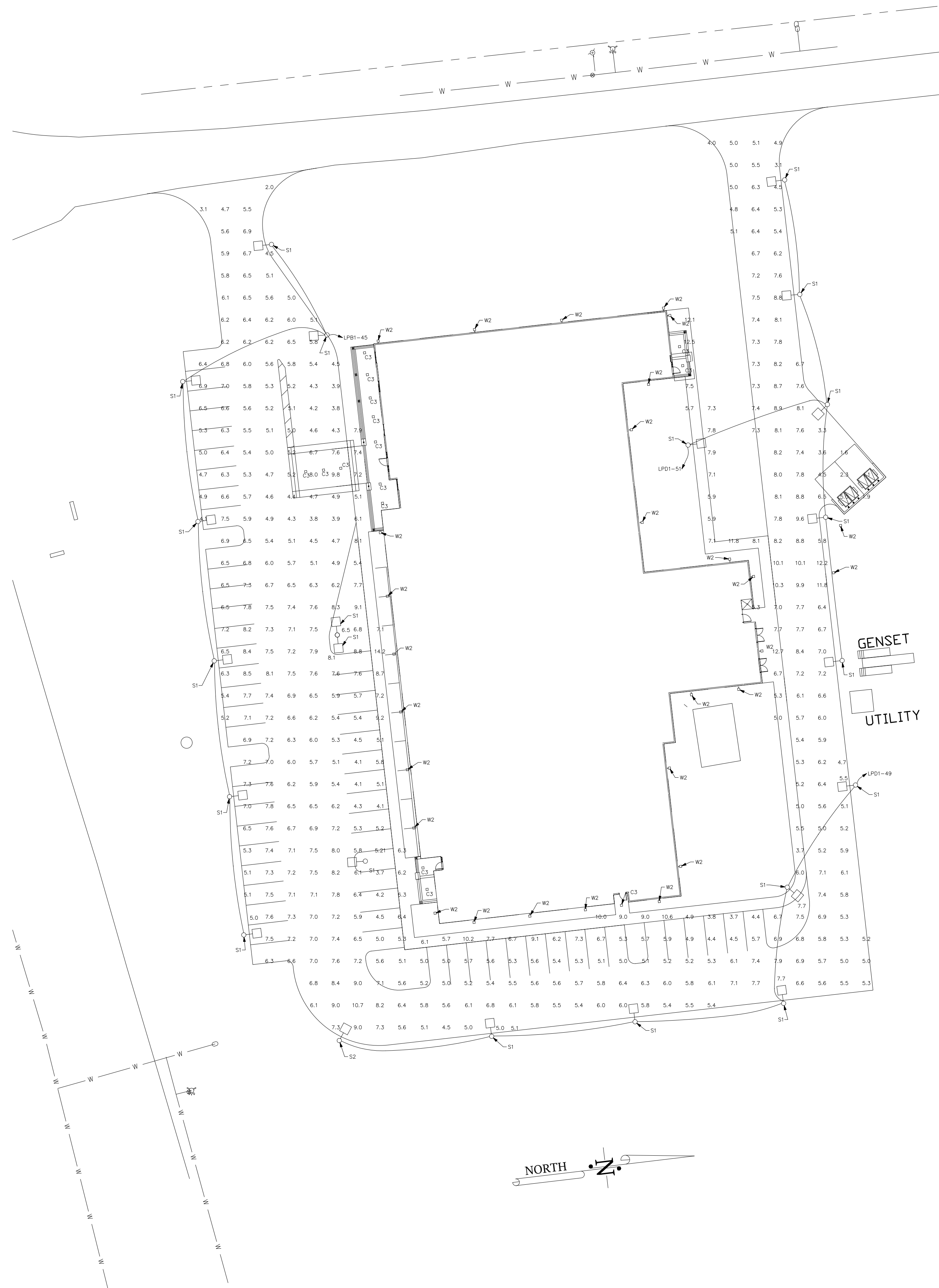
PROJECT CLIENT:  
**CAROLINA CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407-745-5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Famela Friday  
Yuan Ping-Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |





1 LIGHTING SITE PHOTOMETRIC PLAN  
SCALE: 1"=30'

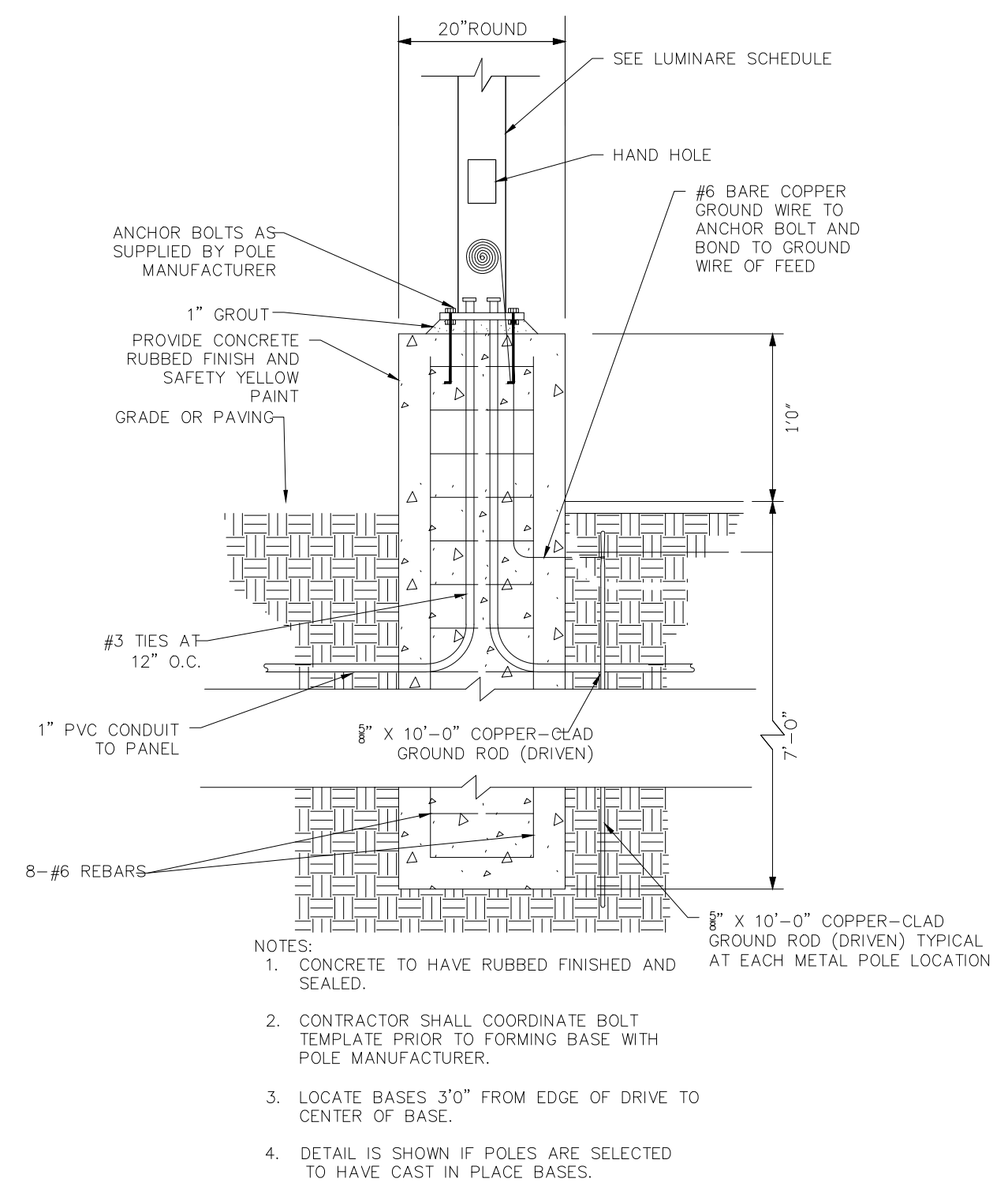
2 TYPICAL POLE BASE FOR "S1" & "S2" POLES  
SCALE: NONE

ELECTRICAL GENERAL NOTES:

- TYPE "W2" WALL MOUNT AND CEILING MOUNT "C3" LIGHTING IS LISTED IN GENERAL LUMINAIRE SCHEDULE ON SHEET E502.
- ALL CONDUIT ROUTING SHOWN ON DRAWING IS 30" BELOW GRADE OR 6" BELOW FLOOR SLAB MINIMUM.
- PROVIDE CONCRETE ENCASEMENT OF ALL CONDUIT ROUTED UNDER DRIVEWAYS.
- ALL SITE LIGHTING CONDUIT SHALL BE 1" MINIMUM WITH #10 WIRE MINIMUM FOR CIRCUITING.
- VERIFY CIRCUITING AND PANEL LOCATIONS IN FIELD WITH LIGHTING CONTROL SYSTEM PROVIDED.

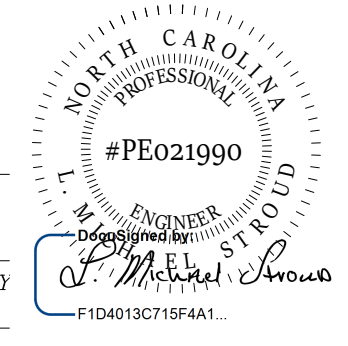
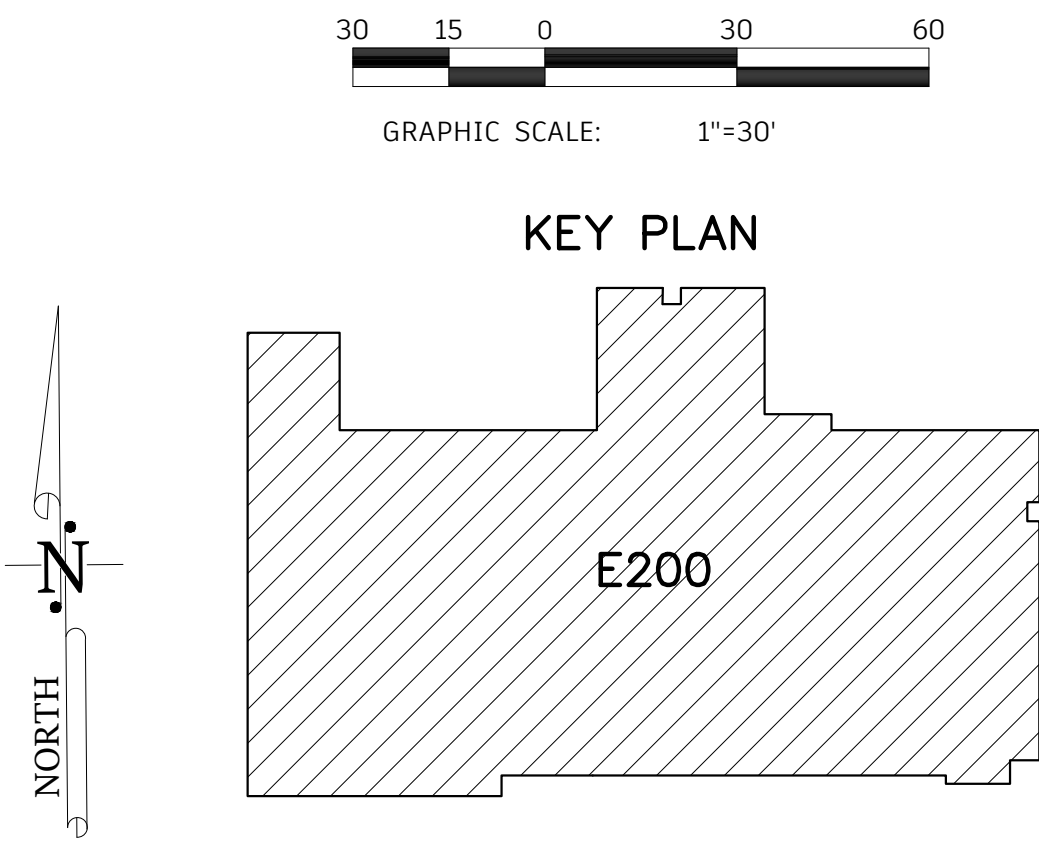
LUMINAIRE SCHEDULE

| CALLOUT | SYMBOL | DESCRIPTION  | BALLAST    | MOUNTING | MODEL                          | INPUT WATTS | VOLTS      | NOTE 1   | NOTE 2   | QUANTITY |
|---------|--------|--|------------|----------|--------------------------------|-------------|------------|--|--|----------|
| C3      | □      | EXTERIOR GENERAL AREA LIGHT AS SHOWN ON DRAWING E502 LUMINAIRE SCHEDULE  | ELECTRONIC | CEILING  | RAB LIGHTING INC., VANLED20F   | 21.9        | 120V 1P 2W |  |  | 15       |
| S1      | ○ □    | CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST WHITE PAINTED METAL LENS FRAME         | ELECTRONIC | POLE     | RAB LIGHTING INC., ALED3T150   | 155.2       | 120V 1P 2W | VERIFY LIGHTING COLOR WITH OWNER PRIOR TO ORDERING   | PROVIDE 24 FT. POLE BASE PER DETAIL OR EQUIVALENT DIRECT BURIAL ASSEMBLY AT EACH POLE LOCATION SHOWN | 21       |
| S2      | ○ □    | CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1LED, MOLDED 2-PIECE PLASTIC REFLECTOR WITH SPECULAR FINISH AND APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL LENS FRAME | ELECTRONIC | POLE     | RAB LIGHTING INC., ALED4T150   | 155.8       | 120V 1P 2W | VERIFY LIGHTING COLOR WITH OWNER PRIOR TO ORDERING   | PROVIDE 24 FT. POLE BASE PER DETAIL OR EQUIVALENT DIRECT BURIAL ASSEMBLY AT EACH POLE LOCATION SHOWN | 1        |
| W2      | ◁      | EXTERIOR GENERAL AREA LIGHT AS SHOWN ON DRAWING E502 LUMINAIRE SCHEDULE  | ELECTRONIC | WALL     | RAB LIGHTING - BRISKM48L 5000K | 32          | 120V 1P 2W | EXTERIOR FIXTURE TO BE CONTROLLED THROUGH EXTERIOR PHOTOEYE AND LIGHTING CONTACTOR SWITCHING | MOUNT ABOVE WINDOW HEIGHT AT LOCATIONS AND HEIGHT COORDINATED WITH ARCHITECT                         | 28       |



GENERAL PHOTOMETRIC SCHEDULE

|                      |      |
|----------------------|------|
| AVERAGE FOOT-CANDLES | 6.3  |
| MAXIMUM FOOT-CANDLES | 14.2 |



**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MCKEHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647

**L. MICHAEL STROUD, P.E.**

20 JANUARY, 2023

Matthew A. Conte, AIA  
NC. REG.#15129



NCLicense: 1919  
Mailing Address:  
424 E. Central Blvd., #42  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.255.2300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**

40 RAWL'S CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
**MATTHEW A. CONTE**  
407-745-5301  
mconte@eleven18architecture.com

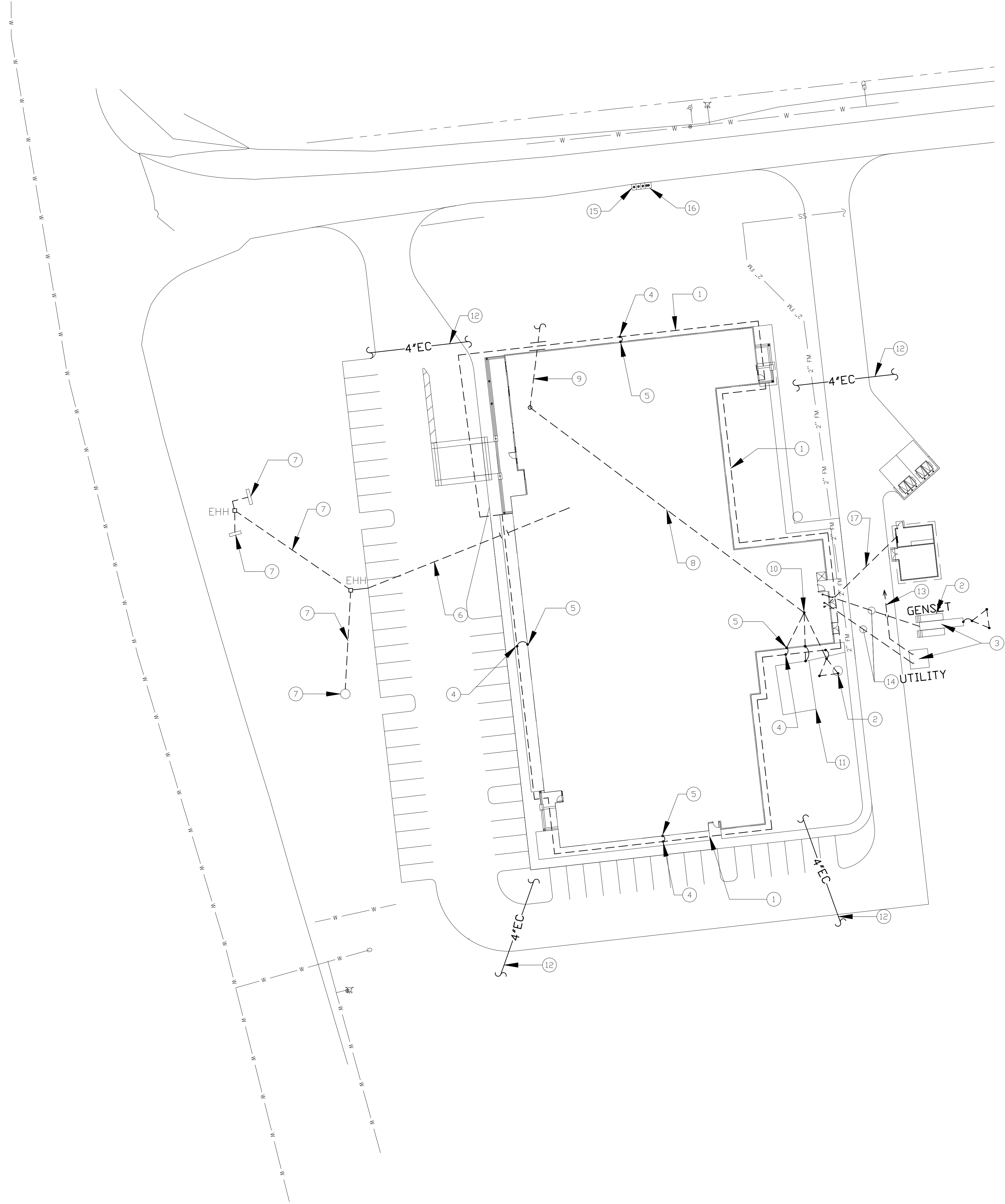
PROJECT TEAM:  
Gabriela Salazar  
Pamela Fridley  
Yuan Ping Lien

REVISIONS

| #  | DATE      | DESC.            |
|----|-----------|------------------|
| -- | --        | PERMIT SUBMITTAL |
|    | DATE      |                  |
| 1  | 1/20/2023 | REVISION 1       |
| 2  | 3/13/2023 | REVISION 2       |

**E200**  
SITE LIGHTING PLAN





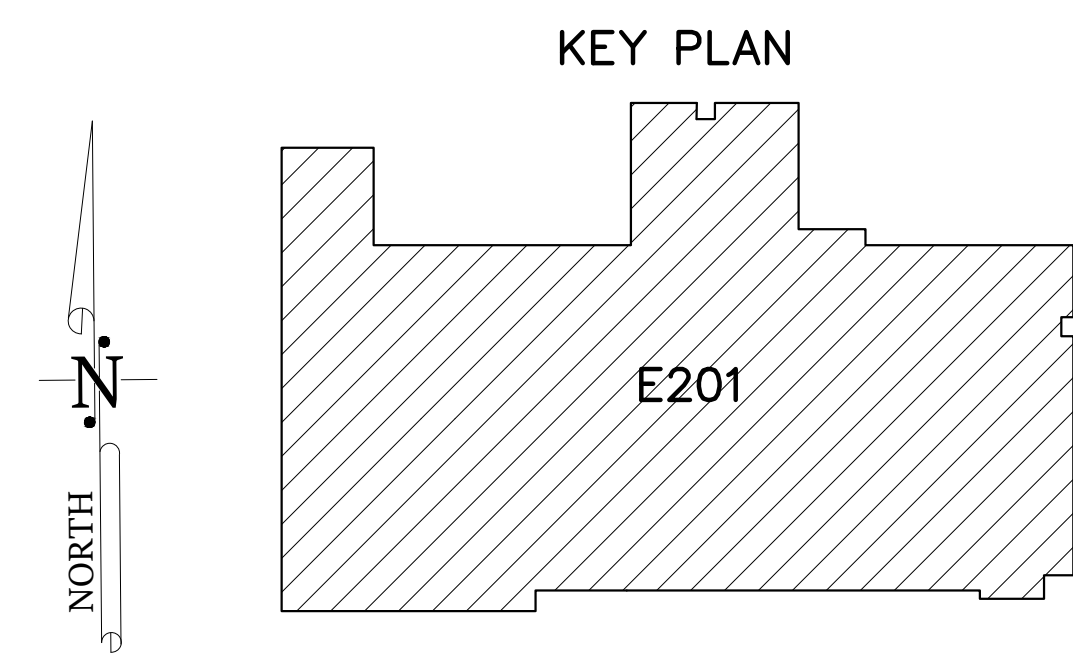
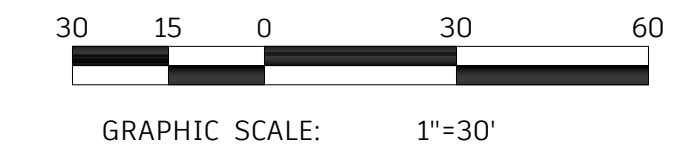
1  
E201  
ELECTRICAL SITE PLAN  
SCALE: 1"=30'

**ELECTRICAL GENERAL NOTES:**

- COORDINATE SERVICE TRANSFORMER INSTALLATION WITH: DUKE ENERGY CONTACT MR. JEREMY BATSON, ENGINEER III (919) 210-9274 JEREMY.BATSON@DUKE-ENERGY.COM WORK ORDER #46216323
- ALL CONDUIT ROUTING SHOWN ON DRAWING IS 30" BELOW GRADE OR 6" BELOW FLOOR SLAB MINIMUM.
- PROVIDE CONCRETE ENCASEMENT OF ALL CONDUIT ROUTED UNDER DRIVEWAYS.
- ALSO SEE SERIES FA (FIRE ALARM DRAWINGS) FOR CONNECTIONS REQUIRED FOR FIRE ALARM SYSTEM.

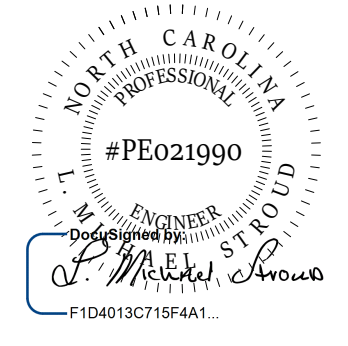
**ELECTRICAL PLAN NOTES:**

- PROVIDE #1 MINIMUM WIRE GROUND RING AROUND BUILDING 30" DEEP MINIMUM. PROVIDE WARNING TAPE AROUND RING AT 6" BELOW GRADE. IDENTIFY ON AS BUILT DRAWINGS.
- PROVIDE (3) DRIVEN GROUND RODS FOR SERVICE GROUNDING AND GENERATOR ASSEMBLY AT (2) LOCATIONS. CONNECT TO BUILDING "MSB" MAIN GROUNDING BAR AND GENERATOR FRAME SERVICE AS SHOWN ON ELECTRICAL SITE PLAN 1/E201 WITH #1 WIRE.
- STANDBY GENERATOR AND TRANSFORMER LOCATION. SEE SHEET E211 FOR ADDITIONAL REQUIREMENTS.
- PROVIDE CONNECTION TO CONCRETE ENCASED ELECTRODE. SEE DETAIL 4/E401.
- PROVIDE CONNECTION TO BUILDING GROUND RING AND TO ASSOCIATED GROUND ROD. SEE DETAIL 4/E401.
- PROVIDE (1) 1 1/2" CONDUIT FROM PANEL AS DESIGNATED ON PANEL SCHEDULES TO EHH LOCATION FOR DISTRIBUTION TO SITE SIGN AND TO FLAG POLE POWER LOCATION.
- PROVIDE 1" MINIMUM CONDUIT TO SITE SIGN AND FLAG POLE LOCATION. PROVIDE CONNECTIONS TO EACH SITE EQUIPMENT AS COORDINATED WITH EQUIPMENT PROVIDER.
- PROVIDE #4/0 THHN WIRE IN 2" CONDUIT FOR COMMUNICATION HEAD END (ROOM 104) TO EQUIPMENT GROUND BAR IN MAIN SERVICE DISCONNECT (ROOM 169).
- COORDINATE (2) 4" CONDUITS FOR BUILDING COMMUNICATIONS HEAD END AND (1) 3" CONDUIT FOR BUILDING CATV HEAD END ROUTING OUTSIDE BUILDING FOR OWNER'S COMMUNICATIONS PROVIDER. CONDUITS ARE ROUTED OUT OF ROOM 104.
- MAIN SERVICE DISCONNECT GROUNDING ELECTRODE GROUND BAR. LOCATION IN ELECTRICAL ROOM (169).
- FEEDER SIZE TO SEWER LIFT STATION SHALL BE CONFIRMED WITH CIVIL ENGINEER PRIOR TO INSTALLATION. FINAL DESIGN OF SEWER LIFT STATION NOT COMPLETE AT TIME OF THIS ELECTRICAL DESIGN.
- PROVIDE 4" CONDUIT CROSSING UNDER DRIVEWAY AS COORDINATED WITH SITE LIGHTING PROVIDER.
- TRANSFORMER PRIMARY CONDUIT AND CONNECTION, AND METERING PROVIDED BY POWER COMPANY.
- PROVIDE GENERATOR AND SERVICE CONDUITS AS SHOWN ON PROJECT DRAWINGS.
- PROVIDE (3) 20A, 120 VAC CIRCUITS AS SHOWN FOR BACK FLOW PREVENTER ENCLOSURE HEATERS. VERIFY POWER REQUIREMENTS OF EACH HEATER PRIOR TO INSTALLATION BRANCH CONDUCTORS. WIRE SIZE #10 MIN. CONDUIT SIZE 3/4" MIN.
- PROVIDE (2) 3/4" CONDUITS FROM HEAT SENSOR AND "RPZ" VALVE INDICATOR LOCATION TO BUILDING FIRE ALARM SYSTEM. SHALL BE #10 MIN. IN 3/4" CONDUIT MIN.
- PROVIDE (1) 1-1/2" CONDUIT FROM "MSB" MAIN SWITCHBOARD TO PANEL "SB" LOCATED IN STORAGE BUILDING.



**COPYRIGHT STATEMENT**  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by law.

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRISVILLE, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647  
**L. MICHAEL STROUD, P.E.**



20 JANUARY, 2023

Matthew A Conte, AIA  
NC. REG.#15129



NC License #1919  
Mailing Address:  
424 E. Central Blvd., #42  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.755.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**

40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407.745.5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**E201**  
ELECTRICAL SITE PLAN

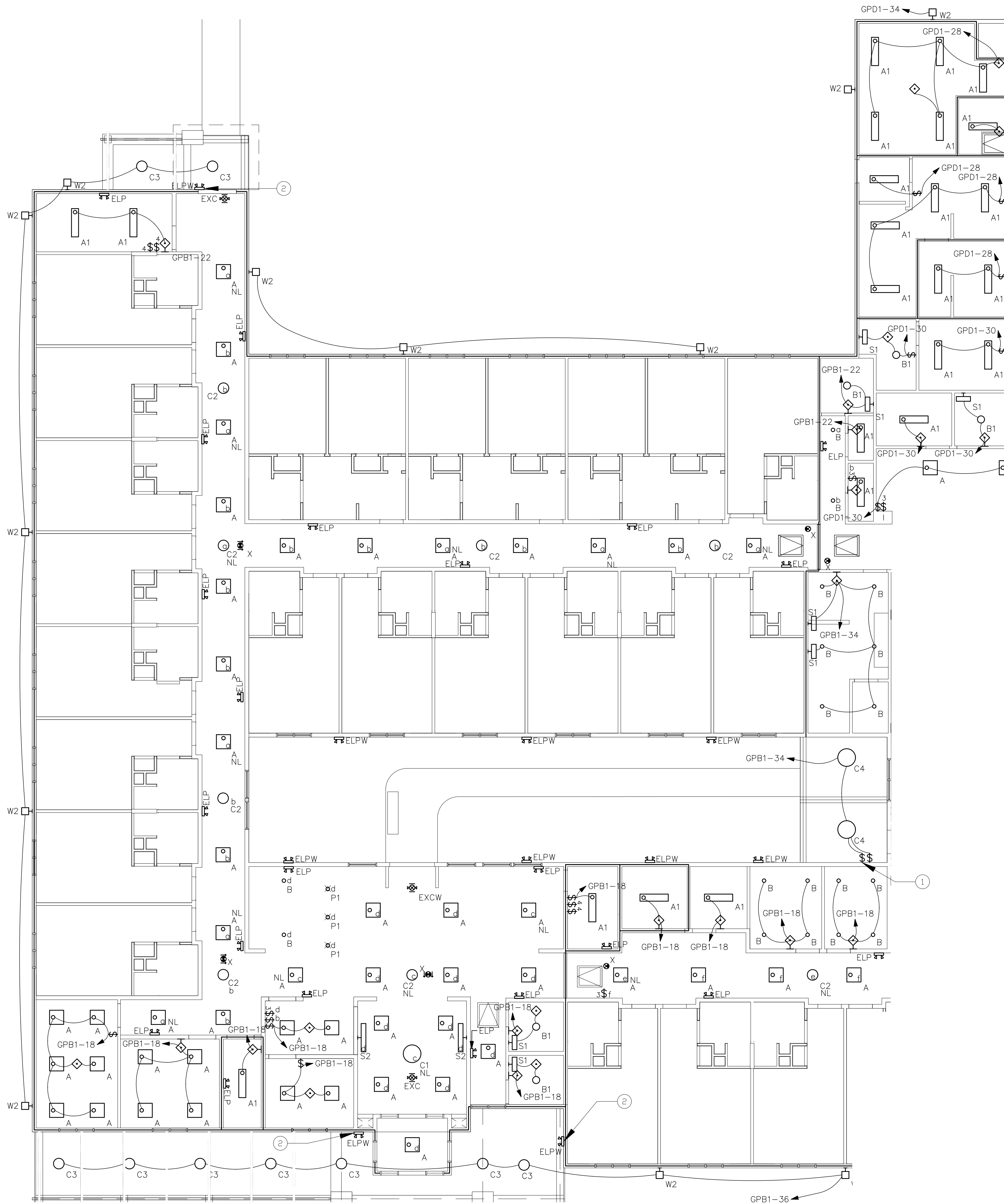












1 PARTIAL LIGHTING PLAN  
SCALE: 1/8"=1'-0"

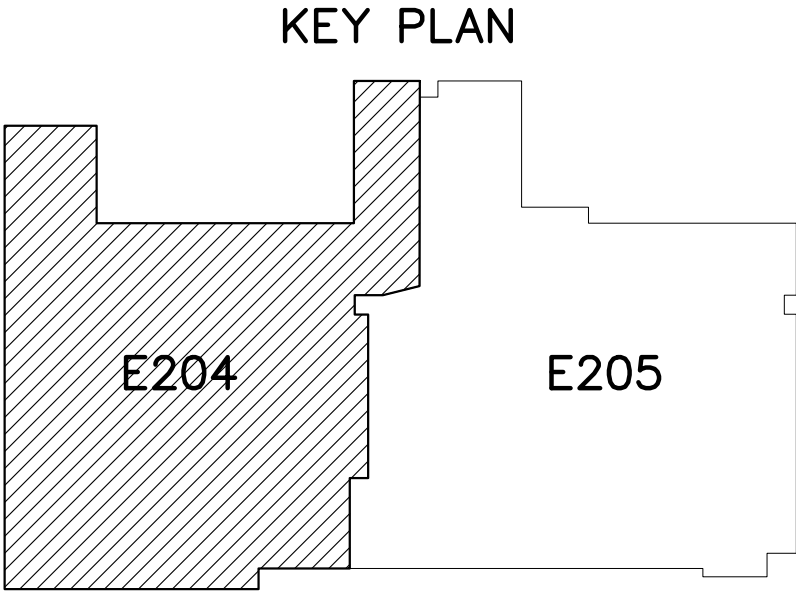
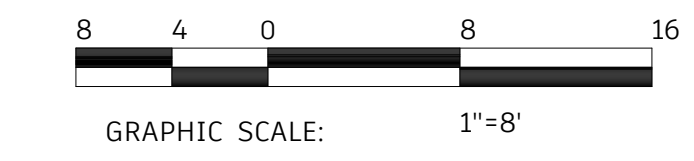
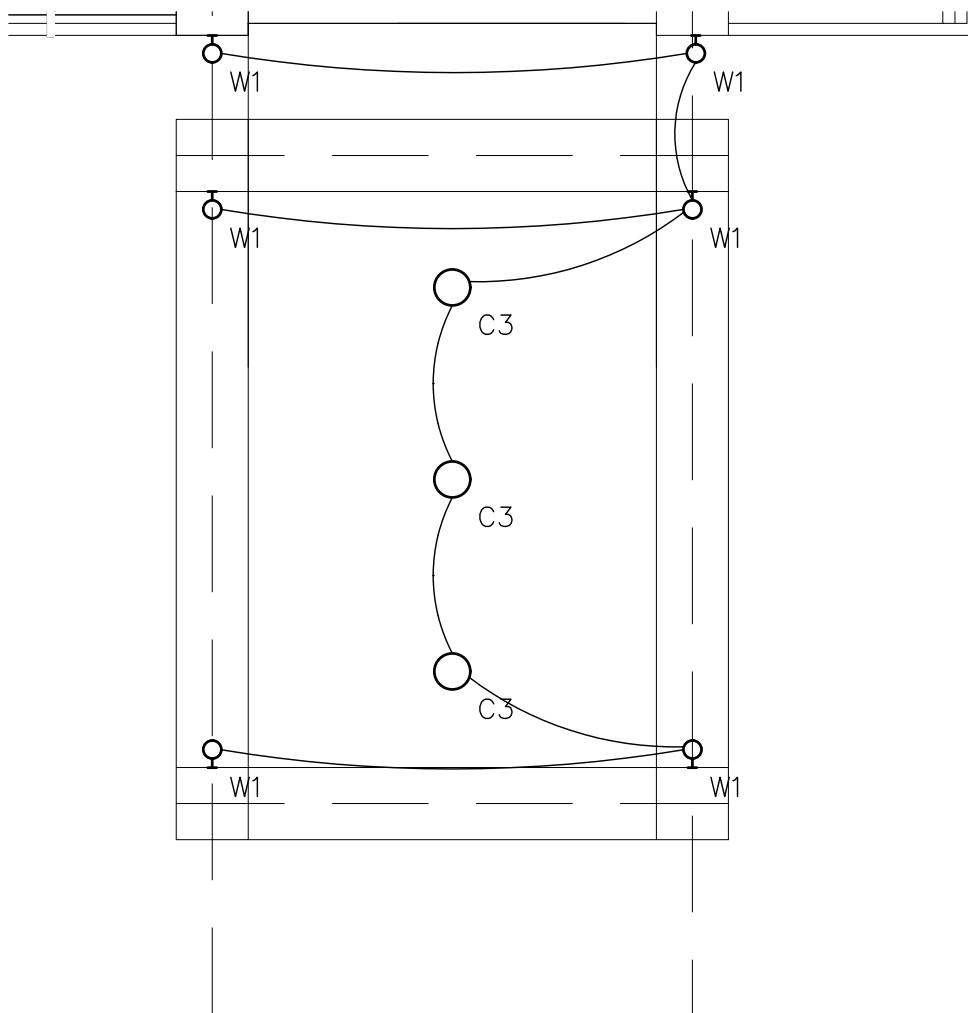
2 CANOPY LIGHTING PLAN  
SCALE: 1/8"=1'-0"

**ELECTRICAL GENERAL NOTES:**

1. PROVIDE FIRE STOPPING AT ALL CONDUIT, BOX, AND MOUNTING PENETRATIONS AT ALL 1-HR FIRE SEPARATION WALLS AND CEILING ASSEMBLIES AS SHOWN ON LIFE SAFETY PLANS, SPECIFICATIONS, AND DETAILS.
2. SEE SPECIFICATIONS, SHEET 502 FOR LUMINAIRE SCHEDULE, AND WIRING DEVICES SCHEDULES FOR ADDITIONAL INFORMATION.
3. EXIT SIGNS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND ARCHITECT TO BE VISIBLE AWAY FROM ANY OBSTRUCTION HANGING FROM CEILING.
4. ALL EXTERIOR LIGHTING SHALL BE CONNECTED TO A LIGHTING CONTACTOR PANEL CONTROLLED BY A PHOTOCELL/TIME CLOCK DEVICE U.O.N.
5. LIGHTING SUBSCRIPTS FOUND ON LIGHT FIXTURES:
  - a. CIRCUIT ALL NIGHT LIGHTS AND EMERGENCY LIGHTS UNSWITCHED TO GPB1-20.
  - b. CIRCUIT ALL LIGHTS SWITCHED BY "b" THREE-POLE SWITCHES IN RECEPTION 102 AND JAN 180, FOUR-POLE SWITCH IN STORAGE 193, TO GPB1-22.
  - c. CIRCUIT ALL NIGHT LIGHTS AND EMERGENCY LIGHTS UNSWITCHED TO GPB1-24.
  - d. CIRCUIT ALL LIGHTS SWITCHED BY "d" SINGLE-POLE SWITCH IN RECEPTION 102 TO GPB1-26.
  - e. CIRCUIT ALL NIGHT LIGHTS AND EMERGENCY LIGHTS UNSWITCHED TO GPB1-28.
  - f. CIRCUIT ALL LIGHTS SWITCHED BY "f" THREE-POLE SWITCHES IN W. CORRIDOR 134 TO GPB1-30.
6. AS PER 2020 NEC 700.12 (f) AND NC FIRE CODE 605.3.1: ALL EMERGENCY CIRCUITS FOR THE BUILDING ARE PICKED UP BY THE GENERATOR.

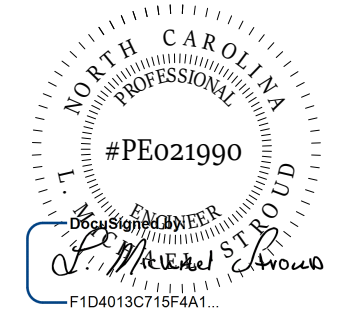
**ELECTRICAL PLAN NOTES:**

1. CEILING FANS AND LIGHTS TYPE "C4" WILL HAVE TWO ADJUSTABLE SWITCHES: ONE FOR LIGHT CONTROL AND ONE FOR FAN CONTROL. COORDINATE EXACT REQUIREMENTS AND SWITCH PLACEMENT.
2. PROVIDE CONNECTION TO EMERGENCY FIXTURE TO ENERGIZE UPON LOSS OF CIRCUIT POWER TO ADJACENT TYPE "C3" FIXTURE.



**COPYRIGHT STATEMENT**  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MOKREHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



20 JANUARY, 2023



NC License #1919  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.755.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, P.L.L.C.  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA CONTRACTORS**

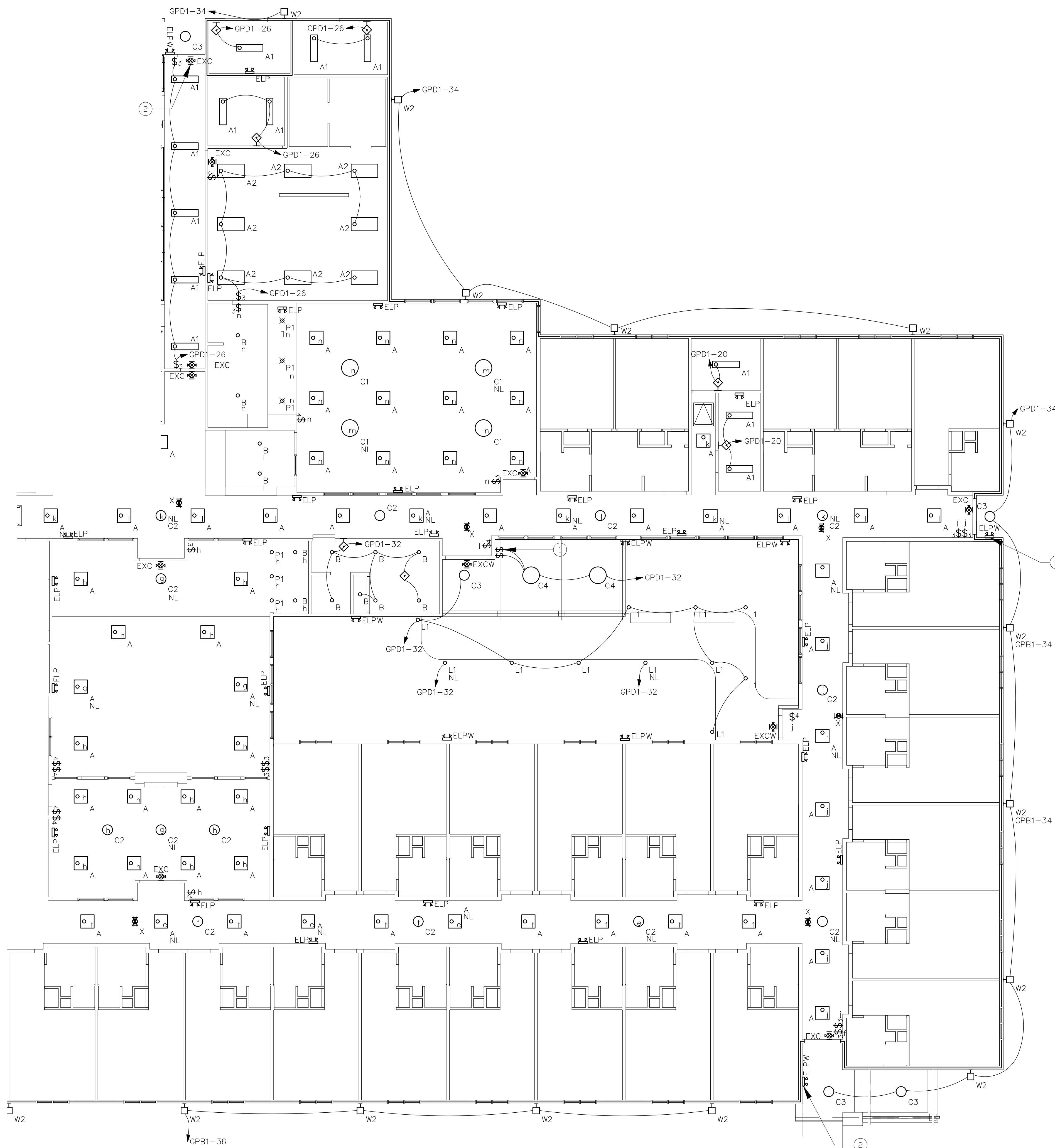
ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407-745-5301  
mcont@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Famela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

**E204**  
PARTIAL LIGHTING PLAN





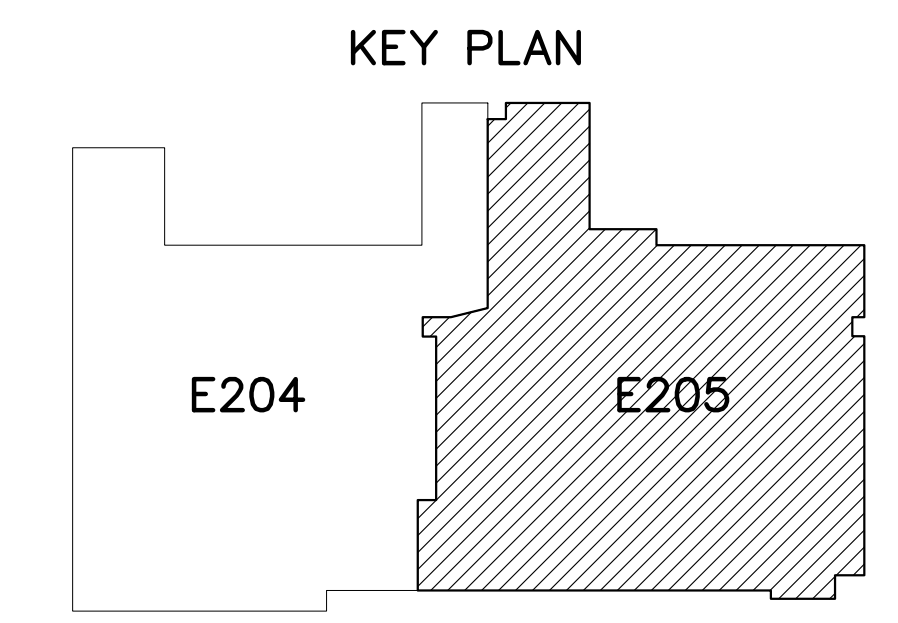
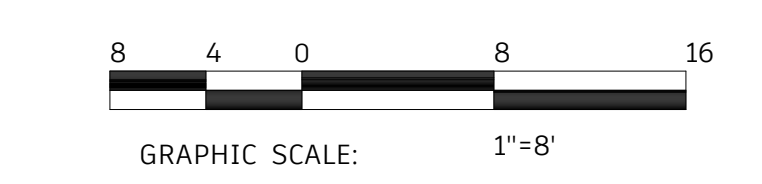
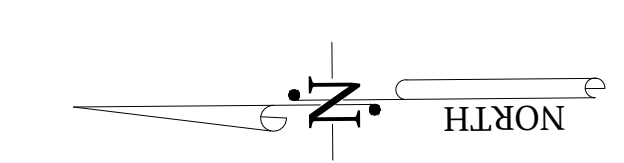
1  
E205 PARTIAL LIGHTING PLAN  
SCALE: 1/8"=1'-0"

**ELECTRICAL GENERAL NOTES:**

- PROVIDE FIRE STOPPING AT ALL CONDUIT, BOX, AND MOUNTING PENETRATIONS AT ALL 1-HR FIRE SEPARATION WALLS AND CEILING ASSEMBLIES AS SHOWN ON LIFE SAFETY PLANS, SPECIFICATIONS, AND DETAILS.
- SEE SPECIFICATIONS, SHEET 502 FOR LUMINAIRE SCHEDULE, AND WIRING DEVICES SCHEDULES FOR ADDITIONAL INFORMATION.
- EXIT SIGNS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND ARCHITECT TO BE VISIBLE AWAY FROM ANY OBSTRUCTION HANGING FROM CEILING.
- ALL EXTERIOR LIGHTING SHALL BE CONNECTED TO A LIGHTING CONTACTOR PANEL CONTROLLED BY A PHOTOCELL/TIME CLOCK DEVICE U.O.N.
- LIGHTING SUBSCRIPTS FOUND ON LIGHT FIXTURES:
  - CIRCUIT ALL NIGHT LIGHTS (NL) AND EMERGENCY LIGHTS IN THIS AREA UNSWITCHED TO GPB1-28.
  - CIRCUIT ALL LIGHTS SWITCHED BY "f" THREE-POLE SWITCHES IN W. CORRIDOR 134 TO GPB1-30.
  - CIRCUIT ALL NIGHT LIGHTS (NL) AND EMERGENCY LIGHTS IN THIS AREA UNSWITCHED TO GPB1-32.
  - CIRCUIT ALL LIGHTS SWITCHED BY "h" THREE-POLE SWITCHES IN LIVING 120 AND ACTIVITY 162 TO GPB1-34.
  - CIRCUIT ALL NIGHT LIGHTS (NL) AND EMERGENCY LIGHTS IN THIS AREA UNSWITCHED TO GPD1-14.
  - CIRCUIT ALL LIGHTS SWITCHED BY "j" THREE-POLE SWITCHES IN S. CORRIDOR 151 AND E. CORRIDOR 152, FOUR-POLE SWITCH IN S. CORRIDOR 151, TO GPD1-16.
  - CIRCUIT ALL NIGHT LIGHTS (NL) AND EMERGENCY LIGHTS IN THIS AREA UNSWITCHED TO GPD1-18.
  - CIRCUIT ALL LIGHTS SWITCHED BY "i" THREE-POLE SWITCHES IN E. CORRIDOR 152 AND CARE BASE 176, FOUR-POLE SWITCH IN E. CORRIDOR 152, TO GPD1-20.
  - CIRCUIT ALL NIGHT LIGHTS (NL) AND EMERGENCY LIGHTS IN THIS AREA UNSWITCHED TO GPD1-22.
  - CIRCUIT ALL LIGHTS SWITCHED BY "n" THREE-POLE SWITCHES IN DINING 158 AND SERVERY 159, FOUR-POLE SWITCH IN DINING 158, TO GPD1-24.
- AS PER 2020 NEC 700.12 (F) AND NC FIRE CODE 605.3.1: ALL EMERGENCY CIRCUITS FOR THE BUILDING ARE PICKED UP BY THE GENERATOR.

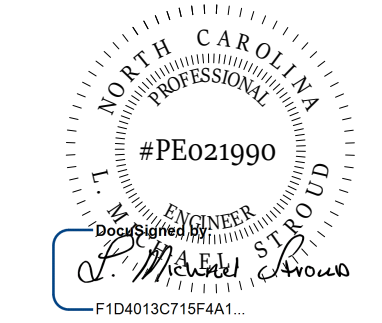
**ELECTRICAL PLAN NOTES:**

- CEILING FANS AND LIGHTS TYPE "C4" WILL HAVE TWO ADJUSTABLE SWITCHES: ONE FOR LIGHT CONTROL AND ONE FOR FAN CONTROL. COORDINATE EXACT REQUIREMENTS AND SWITCH PLACEMENT.
- PROVIDE CONNECTION TO EMERGENCY FIXTURE TO ENERGIZE UPON LOSS OF CIRCUIT POWER TO ADJACENT TYPE "C3" FIXTURE.



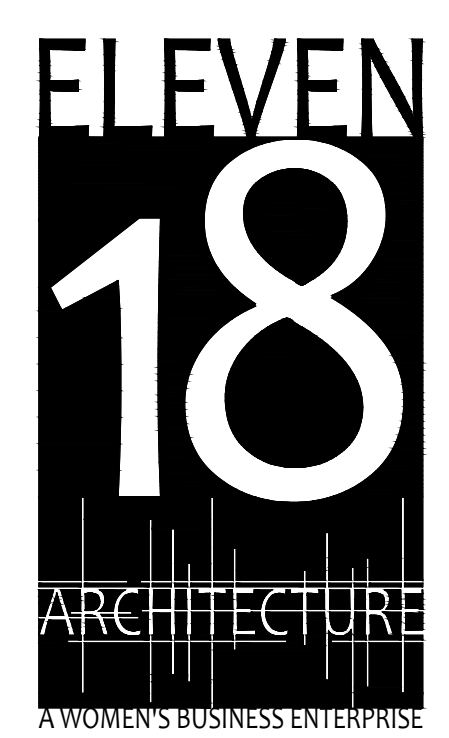
**COPYRIGHT STATEMENT**  
 These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.

**STROUD ENGINEERING, P.A.**  
 422 HWY 24  
 MOREHEAD CITY, NC 28557  
 (252) 247-7479  
 LICENSE NO. C-0647



20 JANUARY, 2023

Matthew A Conte, AIA  
 NC. REG.#15129



NC License #1919  
 Mailing Address:  
 424 E. Central Blvd. #542  
 Orlando, FL 32801  
 www.eleven18architecture.com  
 Physical Address:  
 1011 E. Colonial Dr. #307  
 Orlando, FL 32803  
 407.285.5300  
 © Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
 All Rights Reserved Worldwide

**PROJECT NAME:**  
**THE SPRINGS OF BALLENTINE**  
 40 RAWLS CLUB RD  
 FUQUAY-VARINA NC.

**PROJECT CLIENT:**  
**CAROLINA COMMERCIAL CONTRACTORS**

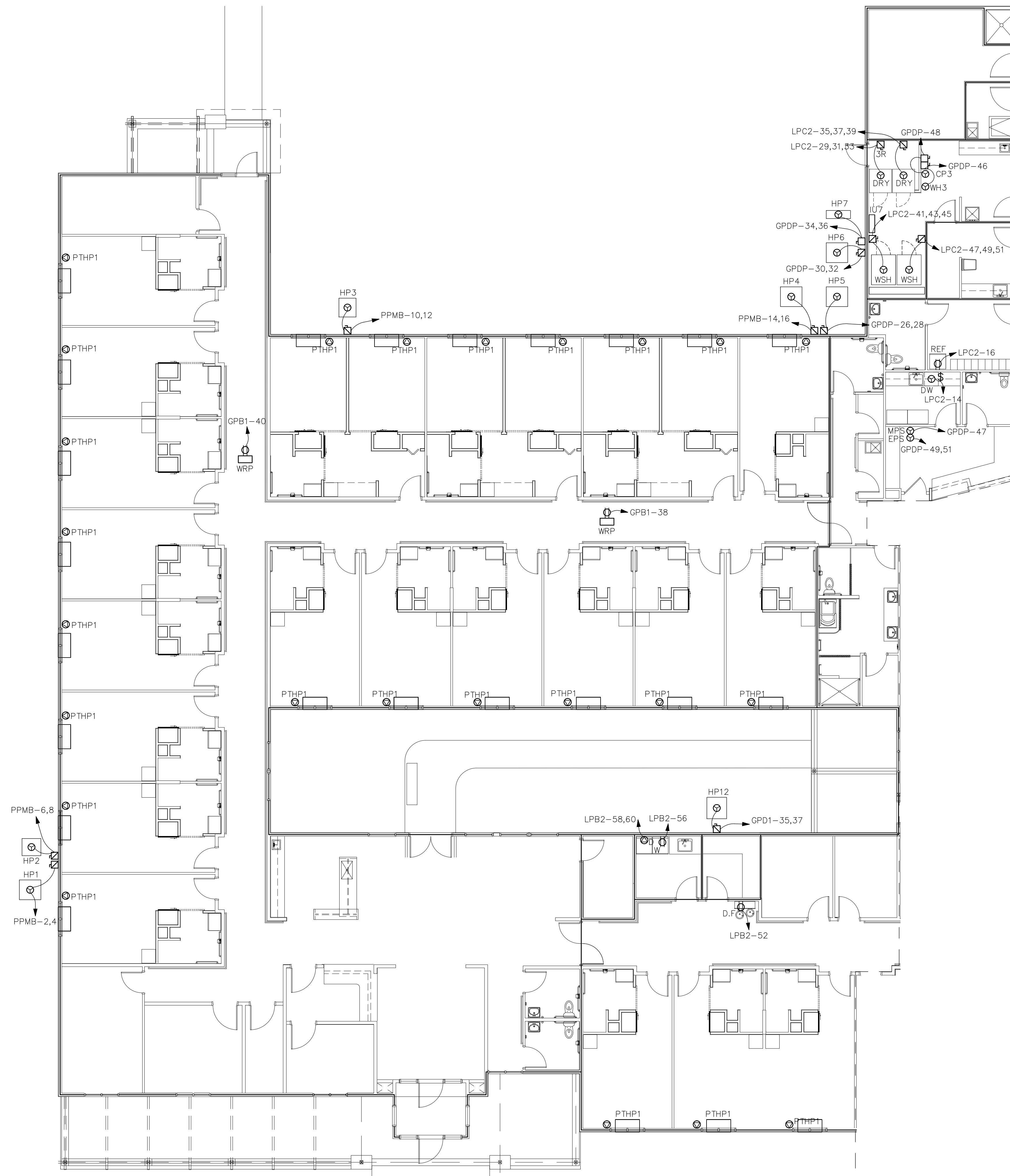
**ELEVEN18 PROJECT LEAD:**  
 MATTHEW A. CONTE  
 407-745-5301  
 mcont@eleven18architecture.com

**PROJECT TEAM:**  
 Gabriela Salazar  
 Pamela Friday  
 Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

**E205**  
 PARTIAL LIGHTING PLAN



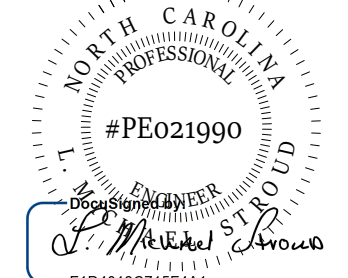


1  
E206 PARTIAL MECHANICAL POWER PLAN  
SCALE: 1/8"=1'-0"

ELECTRICAL GENERAL NOTES:

1. PROVIDE FIRE STOPPING AT ALL CONDUIT, BOX, AND MOUNTING PENETRATIONS AT ALL 1-HR FIRE SEPARATION WALLS AND CEILING ASSEMBLIES AS SHOWN ON LIFE SAFETY PLANS, SPECIFICATIONS, AND DETAILS.
2. SEE SHEET E501 FOR EQUIPMENT CONNECTION SCHEDULE.
3. FOR CONNECTION TO "PTHP1" AND "PTHP2" RESIDENT HEATING UNIT CIRCUITS, PROVIDE RECEPTACLE AT 24" AFF. SEE PANEL SCHEDULES FOR CORRESPONDING ROOMS.

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRISVILLE, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



**L. MICHAEL STROUD, P.E.**

20 JANUARY,  
2023

Matthew A Conte, AIA  
NC REG.#15129



NC License #1919  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32801  
www.eleven8architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.255.3300  
© Copyright 2020 ELEVEN8 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS  
OF  
BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

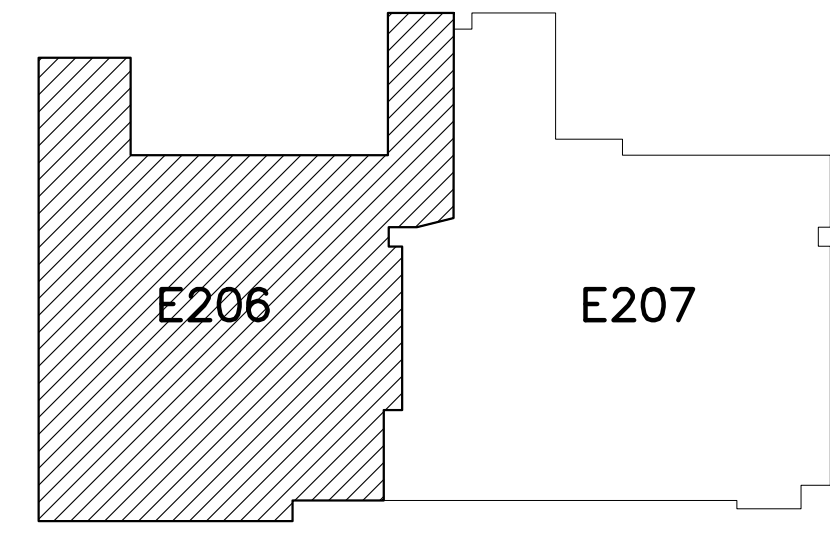
PROJECT CLIENT:  
**CAROLINA  
COMMERCIAL  
CONTRACTORS**

ELEVEN8 PROJECT LEAD:  
MATTHEW A. CONTE  
407-745-5301  
mconte@eleven8architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien



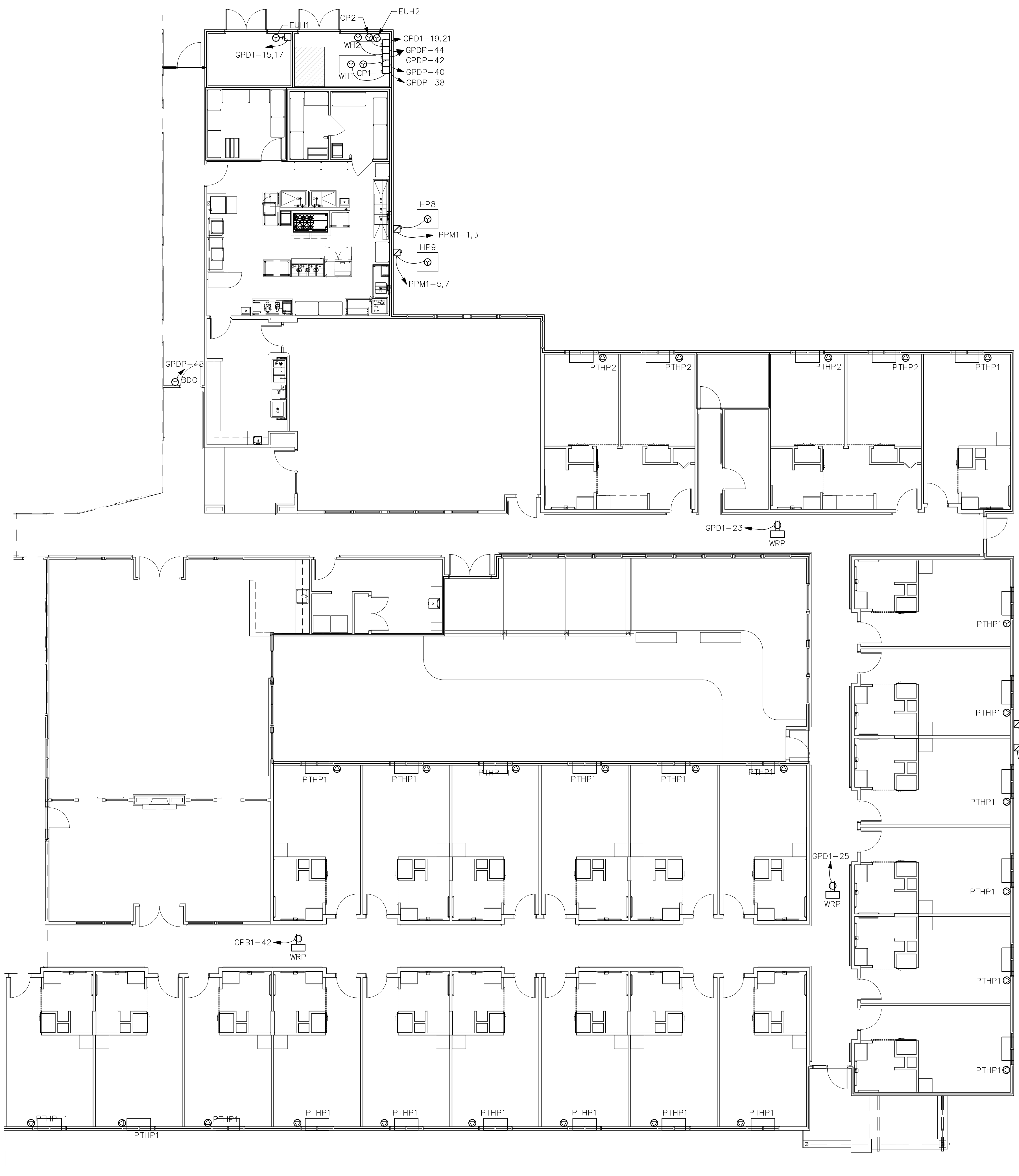
**KEY PLAN**



| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**E206**  
PARTIAL MECHANICAL  
POWER PLAN

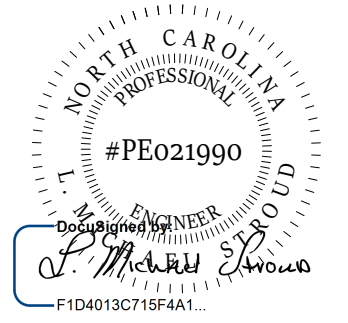




**ELECTRICAL GENERAL NOTES:**

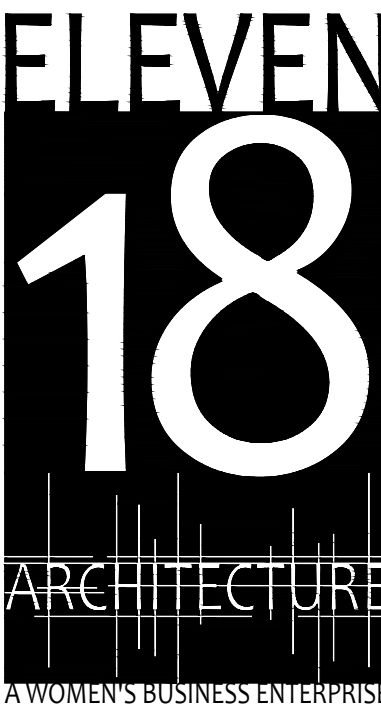
1. PROVIDE FIRE STOPPING AT ALL CONDUIT, BOX, AND MOUNTING PENETRATIONS AT ALL 1-HR FIRE SEPARATION WALLS AND CEILING ASSEMBLIES AS SHOWN ON LIFE SAFETY PLANS, SPECIFICATIONS, AND DETAILS.
2. SEE SHEET E501 FOR EQUIPMENT CONNECTION SCHEDULE.
3. FOR CONNECTION TO "PTHP1" AND "PTHP2" RESIDENT HEATING UNIT CIRCUITS, PROVIDE RECEPTACLE AT 24" AFF. SEE PANEL SCHEDULES FOR CORRESPONDING ROOMS.

**STROUD ENGINEERING, P.A.**  
 422 HWY 24  
 MOREHEAD CITY, NC 28557  
 (252) 247-7479 LICENSE NO. C-0647



20 JANUARY, 2023

Matthew A. Conte, AIA  
 NC. REG.#15129



NC License #1919  
 Mailing Address:  
 424 E. Central Blvd., #542  
 Orlando, FL 32801  
 www.eleven18architecture.com  
 Physical Address:  
 1011 E. Colonial Dr., #307  
 Orlando, FL 32803  
 407.725.5300  
 © Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
 All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
 40 RAWLS CLUB RD  
 FUQUAY-VARINA NC.

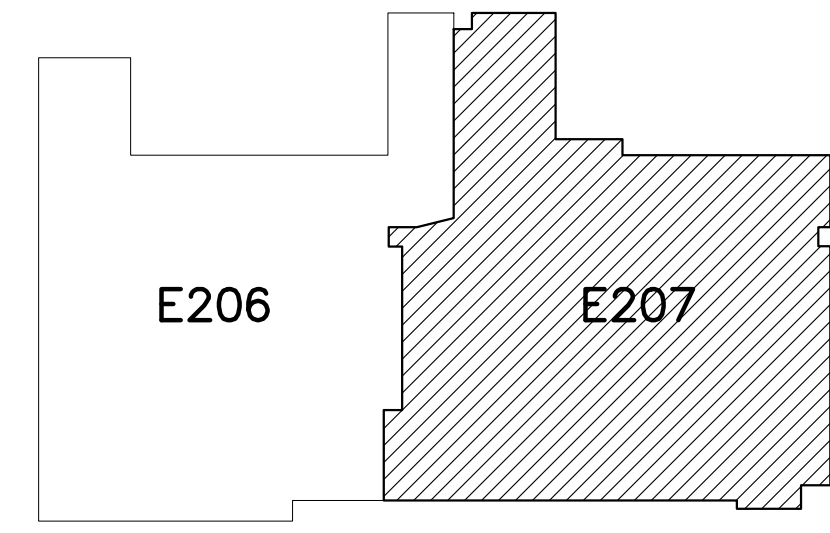
PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
 MATTHEW A. CONTE  
 407.745.5301  
 mconte@eleven18architecture.com

PROJECT TEAM:  
 Gabriela Salazar  
 Pamela Friday  
 Yuan Ping Lien



**KEY PLAN**

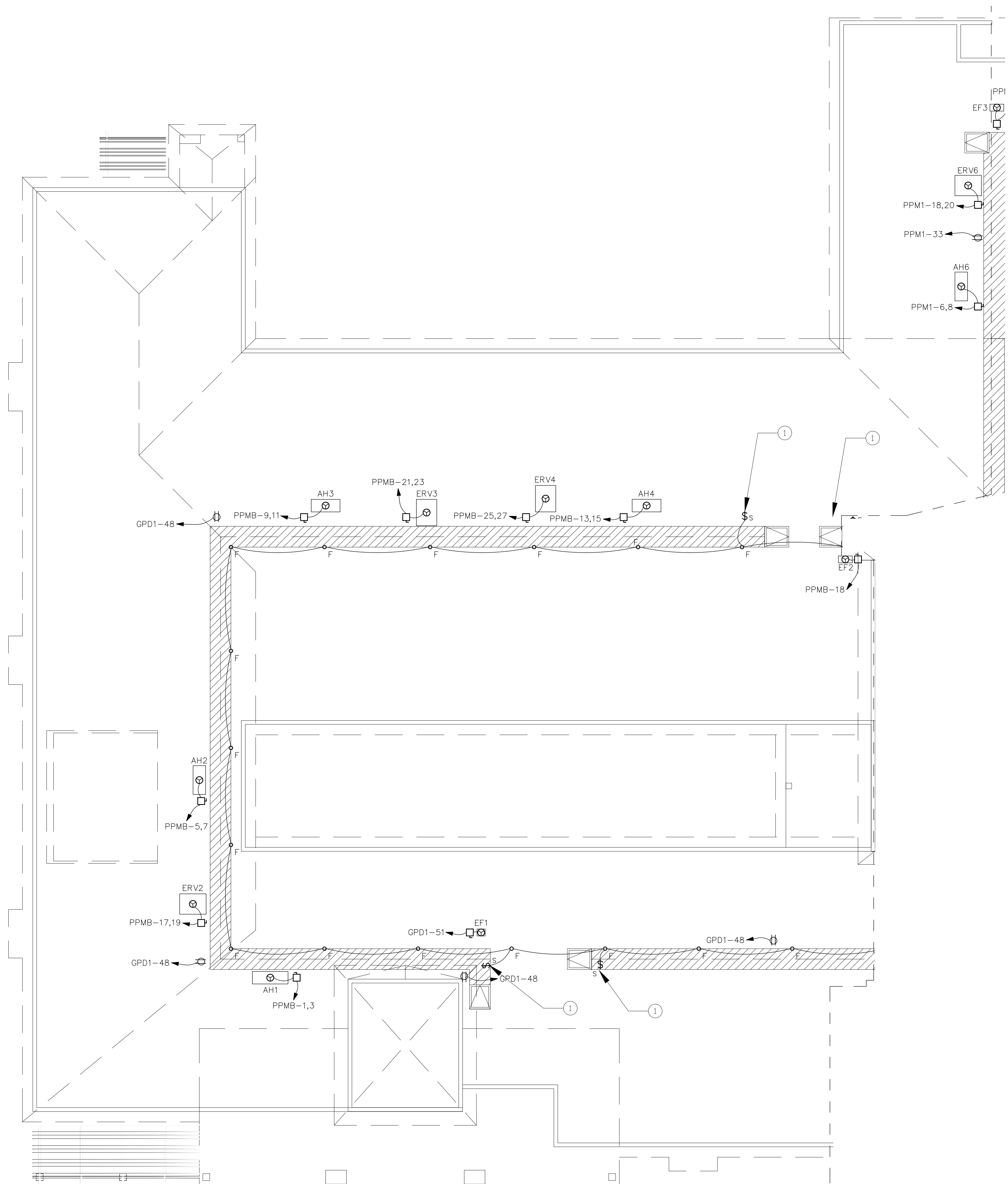


| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

1 PARTIAL MECHANICAL POWER PLAN  
 E207 SCALE: 1/8"=1'-0"

**E207**  
 PARTIAL MECHANICAL POWER PLAN





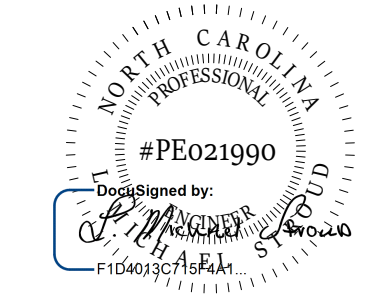
**ELECTRICAL GENERAL NOTES:**

1. PROVIDE FIRE STOPPING AT ALL CONDUIT, BOX, AND MOUNTING PENETRATIONS AT ALL 1-HR FIRE SEPARATION WALLS AND CEILING ASSEMBLIES AS SHOWN ON LIFE SAFETY PLANS, SPECIFICATIONS, AND DETAILS.
2. SEE SHEET E001 FOR GENERAL NOTES AND ABBREVIATIONS.
3. SEE MECHANICAL POWER PLAN SHEET E206 FOR MECHANICAL EQUIPMENT LOCATED IN ATTIC AREA.
4. E.C. SHALL PULL ALL CAT5e, CAT6e, AND PHONE/DATA CABLING TO DATA ROOM AND CONNECT.
5. RECEPTACLE LOCATIONS SHALL BE WITHIN 25 FOOT OF ATTIC EQUIPMENT PER NEC 210.6.3.
6. PLACE ALL LIGHT FIXTURES IN ATTIC OUTSIDE OF WALKING PLATFORM FOOTPRINT AND ALSO LOCATED TO PROVIDE BEST LIGHTING FOR SERVICING ATTIC EQUIPMENT AFTER ALL ITEMS HAVE BEEN INSTALLED.

**ELECTRICAL PLAN NOTES**

1. WIRE ALL SPRING WOUND SWITCHES ON PLATFORM IN PARALLEL.

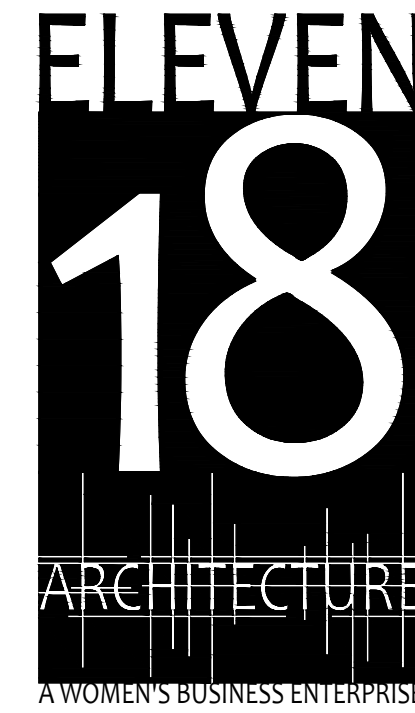
**STROUD ENGINEERING, P.A.**  
 422 HWY 24  
 MOREHEAD CITY, NC 28557  
 (252) 247-7479  
 LICENSE NO. C-0647



**COPYRIGHT STATEMENT**  
 These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.

**20 JANUARY, 2023**

Matthew A Conte, AIA  
 NC REG.#15129



NC License: 19199  
 Mailing Address:  
 424 E. Central Blvd., #542  
 Orlando, FL 32801  
 www.eleven18architecture.com  
 Physical Address:  
 1011 E. Colonial Dr., #307  
 Orlando, FL 32803  
 407.255.5300  
 © Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
 All Rights Reserved Worldwide

**PROJECT NAME:**  
**THE SPRINGS OF BALLENTINE**  
 40 RAWLS CLUB RD  
 FUQUAY-VARINA NC.

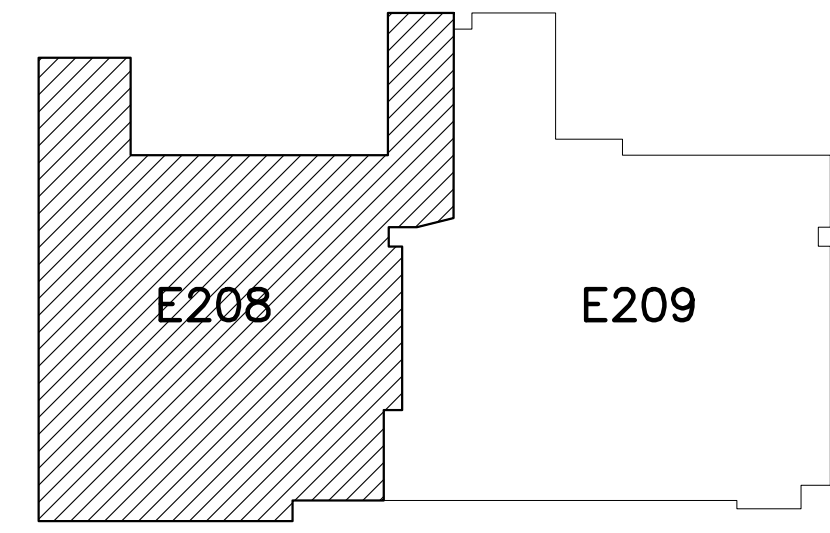
**PROJECT CLIENT:**  
**CAROLINA COMMERCIAL CONTRACTORS**

**ELEVEN18 PROJECT LEAD:**  
**MATTHEW A. CONTE**  
 407-745-5301  
 mconte@eleven18architecture.com

**PROJECT TEAM:**  
 Gabriela Salazar  
 Pamela Friday  
 Yuan Ping Lien



**KEY PLAN**

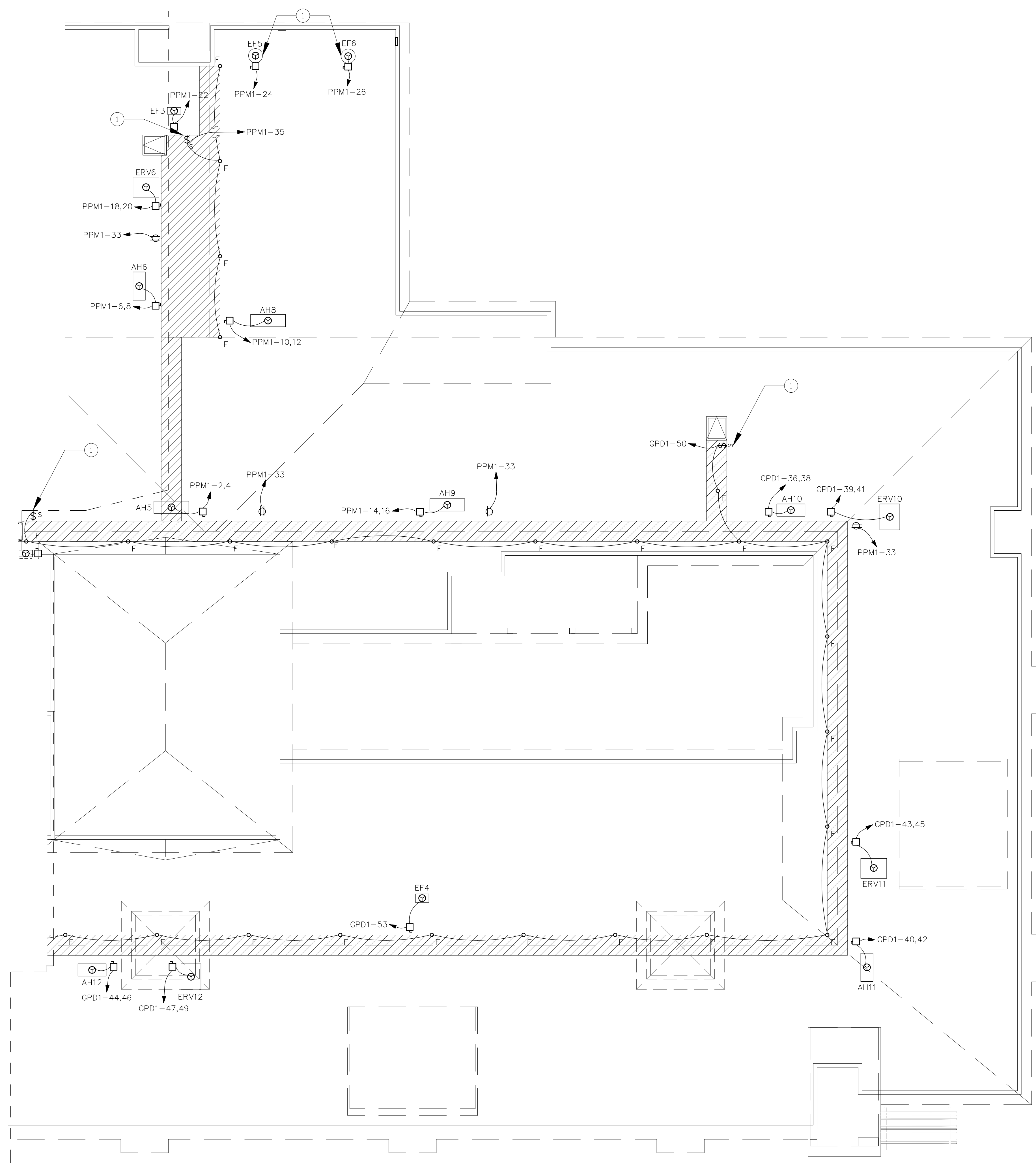


| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**1**  
**E208**  
**PARTIAL ATTIC POWER PLAN**  
 SCALE: 1/8"=1'-0"

**E208**  
 PARTIAL ATTIC POWER PLAN





1 PARTIAL ATTIC POWER PLAN  
SCALE: 1/8"=1'-0"

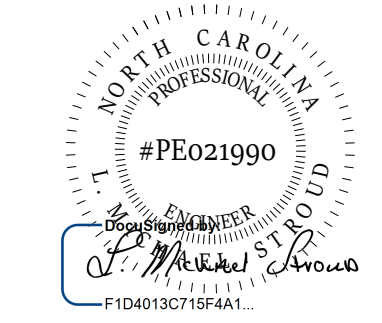
**ELECTRICAL GENERAL NOTES:**

1. PROVIDE FIRE STOPPING AT ALL CONDUIT, BOX, AND MOUNTING PENETRATIONS AT ALL 1-HR FIRE SEPARATION WALLS AND CEILING ASSEMBLIES AS SHOWN ON LIFE SAFETY PLANS, SPECIFICATIONS, AND DETAILS.
2. SEE SHEET E001 FOR GENERAL NOTES AND ABBREVIATIONS.
3. SEE MECHANICAL POWER PLAN SHEET E207 FOR MECHANICAL EQUIPMENT LOCATED IN ATTIC AREA.
4. E.C. SHALL PULL ALL CAT5e, CAT6e, AND PHONE/DATA CABLING TO DATA ROOM AND CONNECT.

**ELECTRICAL PLAN NOTES:**

1. WIRE ALL SPRING WOUND SWITCHES ON COMMON CIRCUITS ON PLATFORM IN PARALLEL.
2. EF5 AND EF6 ARE ROOF-MOUNTED FANS.

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRISVILLE, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



20 JANUARY, 2023

Matthew A. Conte, AIA  
NC. REG.#15129



NC License #1919  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.255.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

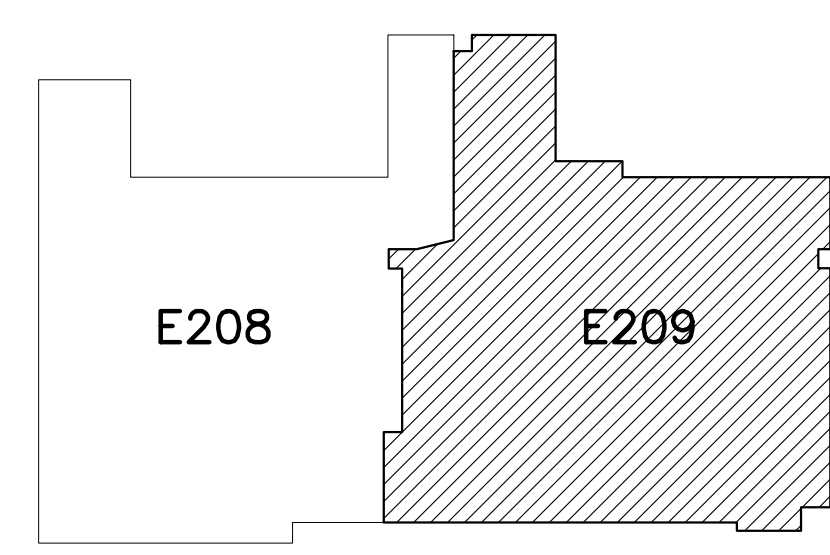
PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407.745.5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping-Lien



**KEY PLAN**



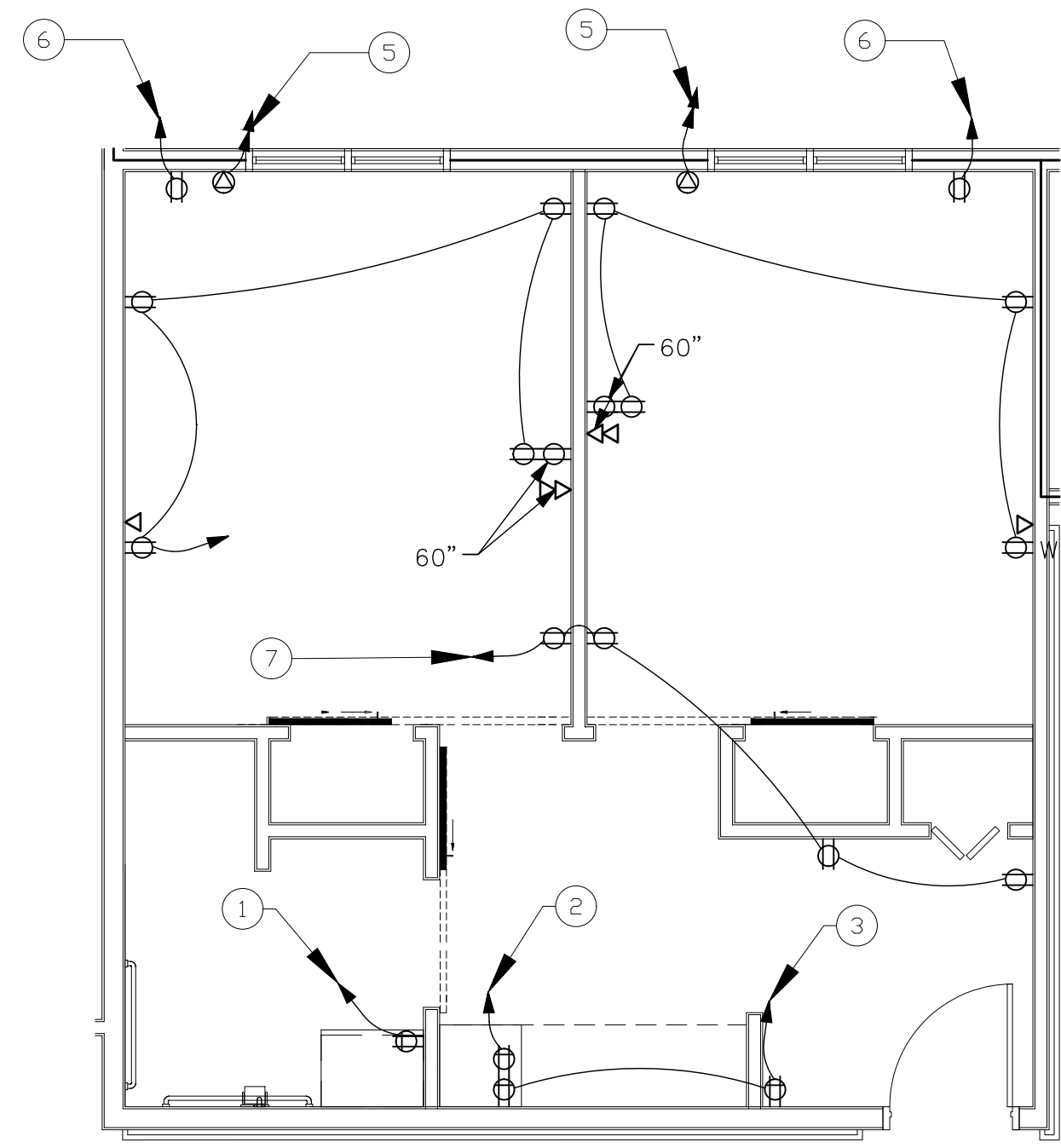
| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

**E209**  
PARTIAL ATTIC POWER PLAN

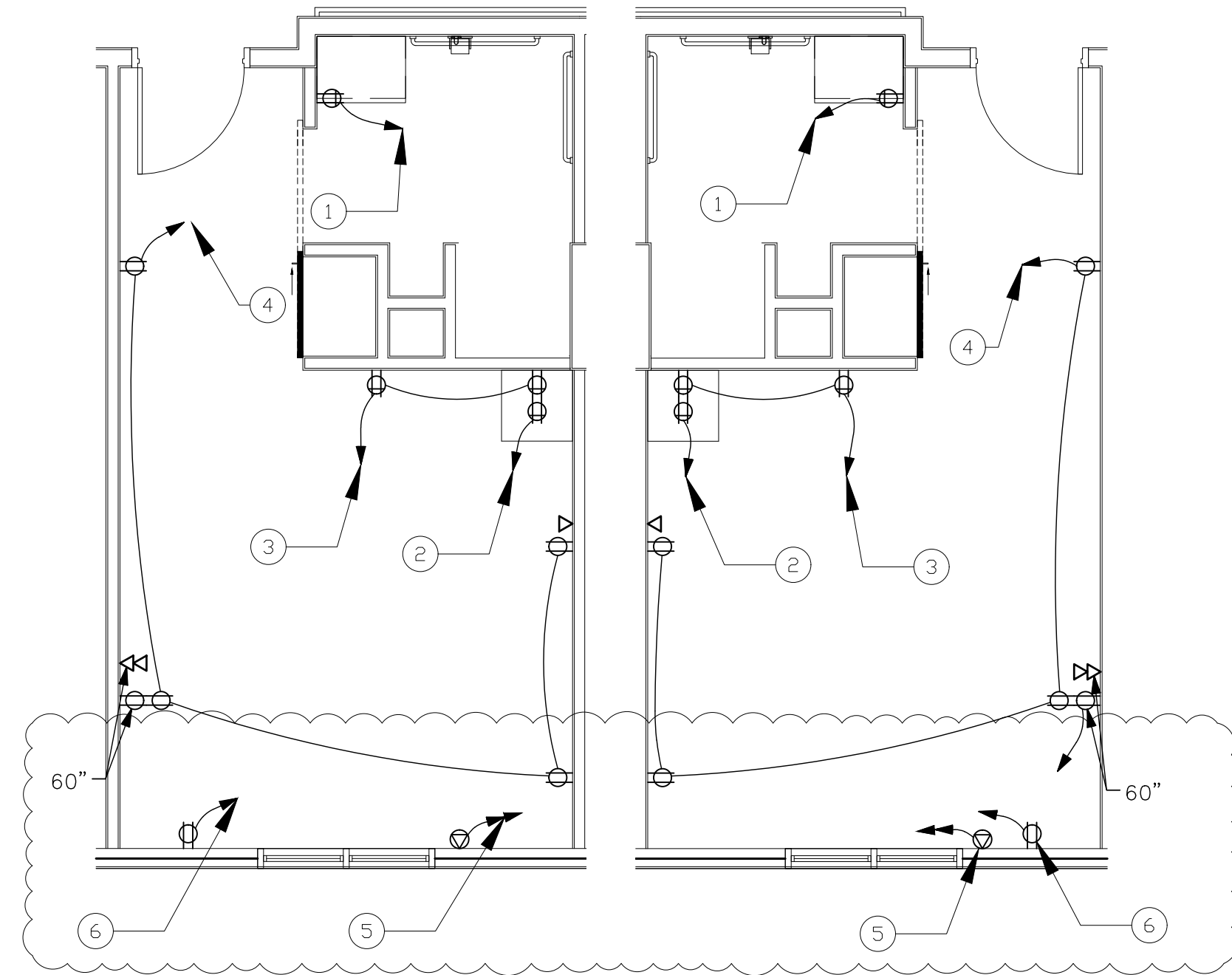


UNIT "A" AND UNIT "B" PLAN NOTES:

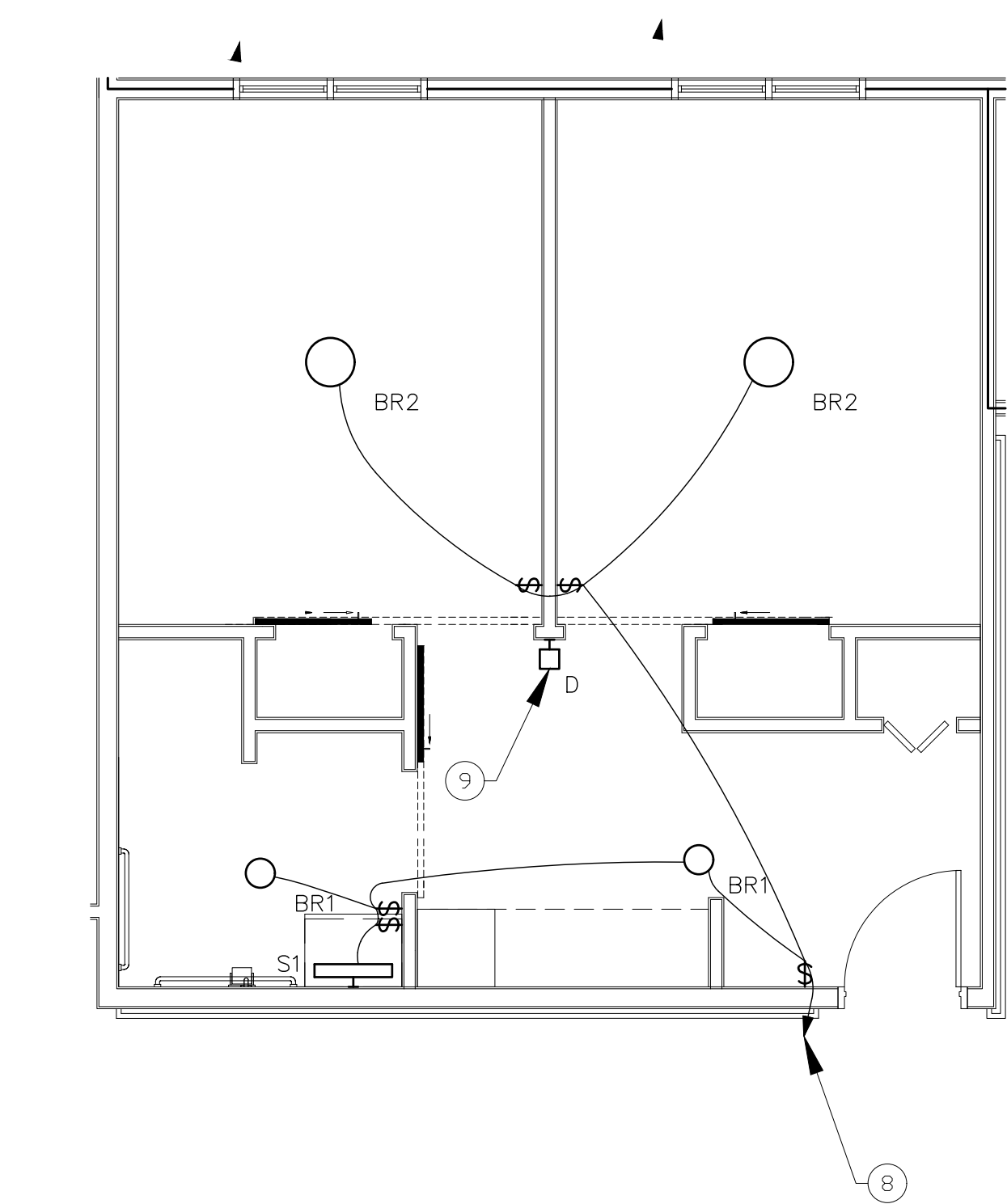
1. PROVIDE SINGLE CIRCUIT TO "TOILET" DESIGNATED CIRCUIT ON PANEL SERVING ROOM.
  2. PROVIDE SINGLE CIRCUIT FOR UNDER COUNTER "FRIDGE" RECEPTACLE DESIGNATED CIRCUIT ON PANEL SERVING ROOM.
  3. PROVIDE SINGLE CIRCUIT TO "KITCHEN" COUNTER TOP RECEPTACLES DESIGNATED CIRCUIT ON PANEL SERVING ROOM.
  4. PROVIDE SINGLE CIRCUIT TO "BEDROOM" RECEPTACLES DESIGNATED CIRCUIT ON PANEL SERVING ROOM.
  5. PROVIDE SINGLE CIRCUIT TO "PTHP1" OR "PTHP2" EQUIPMENT RECEPTACLE DESIGNATED CIRCUIT ON PANEL SERVING ROOM.
  6. PROVIDE CIRCUIT TO SINGLE GENERATOR BACKUP POWERED RECEPTACLE IN EACH ROOM, CIRCUIT WITH MULTIPLE ROOMS AS SHOWN ON PANEL SCHEDULES.
  7. IN UNIT "A" TYPE ROOMS: PROVIDE SINGLE CIRCUIT TO "COMMON AREA" RECEPTACLES DESIGNATED CIRCUIT ON PANEL SERVING ROOM.
  8. PROVIDE SINGLE CIRCUIT FOR GENERATOR BACKUP POWERED LIGHTING CIRCUIT TYPICAL OF BOTH UNIT TYPES. CIRCUIT THESE LIGHTS WITH MULTIPLE ROOMS AS SHOWN ON PANEL SCHEDULES.
  9. NIGHT LIGHT (NL) DENOTED BY LIGHT FIXTURE "D" SHALL BE CONNECTED UNSWITCHED TO ROOM LIGHTING CIRCUIT.
- UNIT "A" AND UNIT "B" GENERAL NOTES:
1. PROVIDE FIRE STOPPING AT ALL CONDUIT, BOX, AND MOUNTING PENETRATIONS AT ALL 1-HR FIRE SEPARATION WALLS AND CEILING ASSEMBLIES AS SHOWN ON LIFE SAFETY PLANS, SPECIFICATIONS, AND DETAILS.
  2. SEE SPECIFICATIONS, PANEL SCHEDULES, LUMINAIRE SCHEDULES, AND ALL DEVICE SCHEDULES FOR ADDITIONAL ELECTRICAL INFORMATION ON EQUIPMENT INSTALLATION.
  3. COORDINATE ALL RECEPTACLE HEIGHTS AND COUNTERTOP HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ALL ROUGH-INS.
  4. VERIFY ALL OUTLET LOCATIONS PRIOR TO ROUGH-IN. OFFSET RECEPTACLES IN ADJACENT ROOMS TO ENSURE NO RECEPTACLES OR COMMUNICATIONS BOXES ARE BACK-TO-BACK (MINIMUM OF 6" BETWEEN RECEPTACLES.) SEE ARCHITECTURAL PLANS FOR FIRE RATED WALLS.
  5. PROVIDE TAMPERPROOF RECEPTACLES AT ALL LOCATIONS.



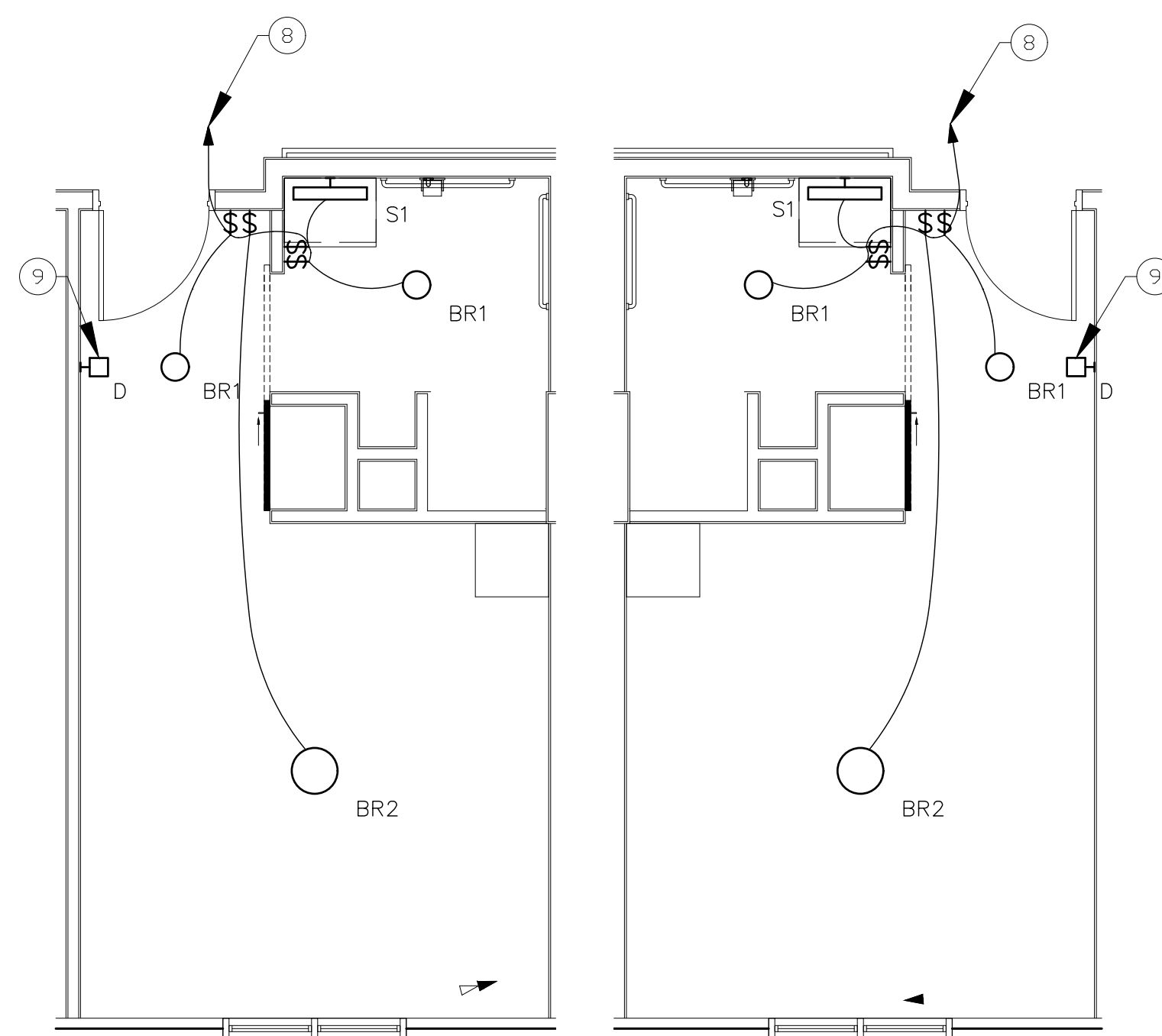
1 UNIT "A" TYPICAL POWER PLAN  
SCALE: 1/4"=1'-0"



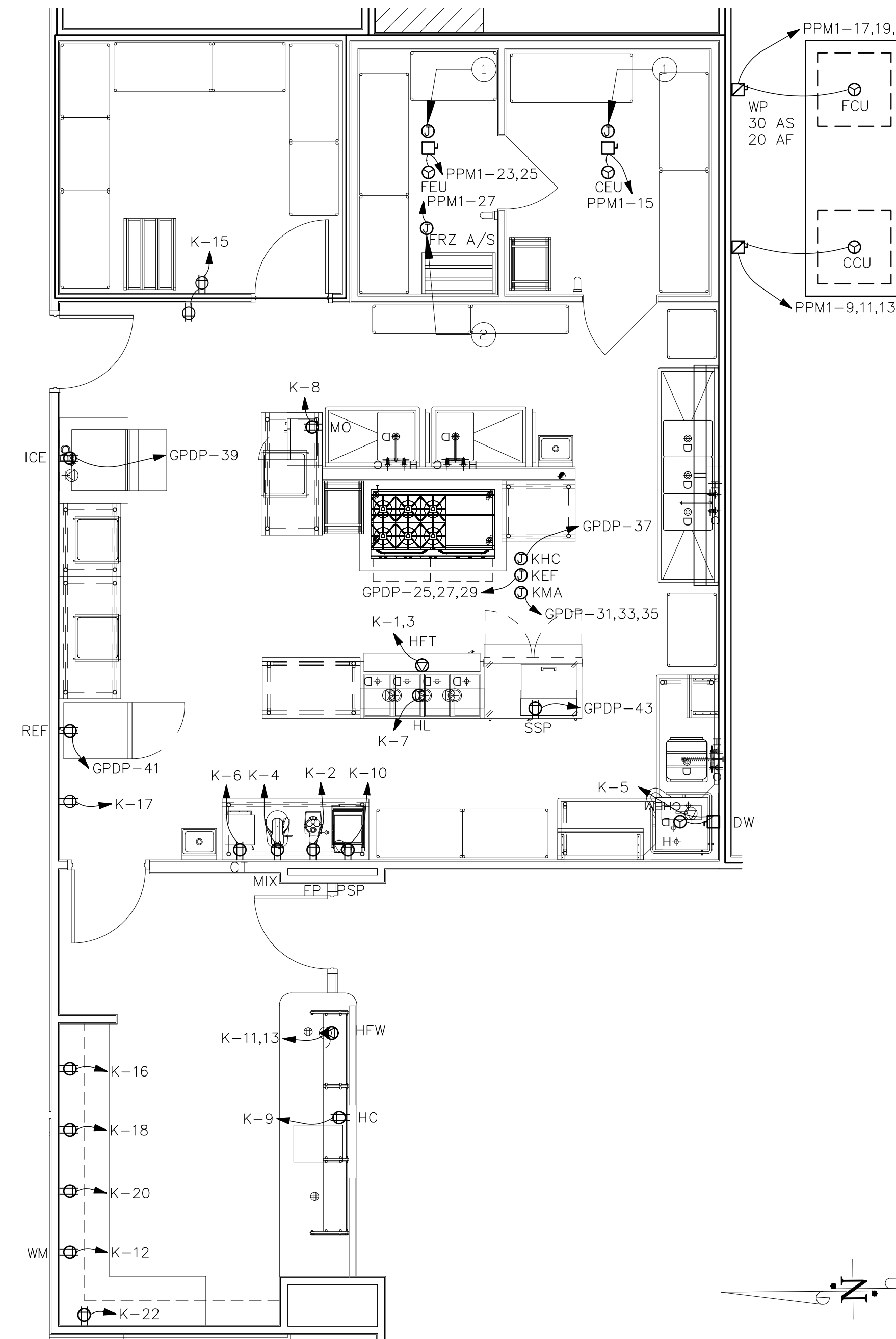
2 UNIT "B" AND OPPOSITE HAND TYPICAL POWER PLAN  
SCALE: 1/4"=1'-0"



3 UNIT "A" TYPICAL LIGHTING PLAN  
SCALE: 1/4"=1'-0"



4 UNIT "B" AND OPPOSITE HAND TYPICAL LIGHTING PLAN  
SCALE: 1/4"=1'-0"



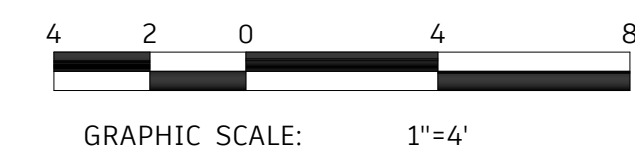
5 KITCHEN/SERVERY POWER PLAN  
SCALE: 1/4"=1'-0"

KITCHEN ELECTRICAL GENERAL NOTES:

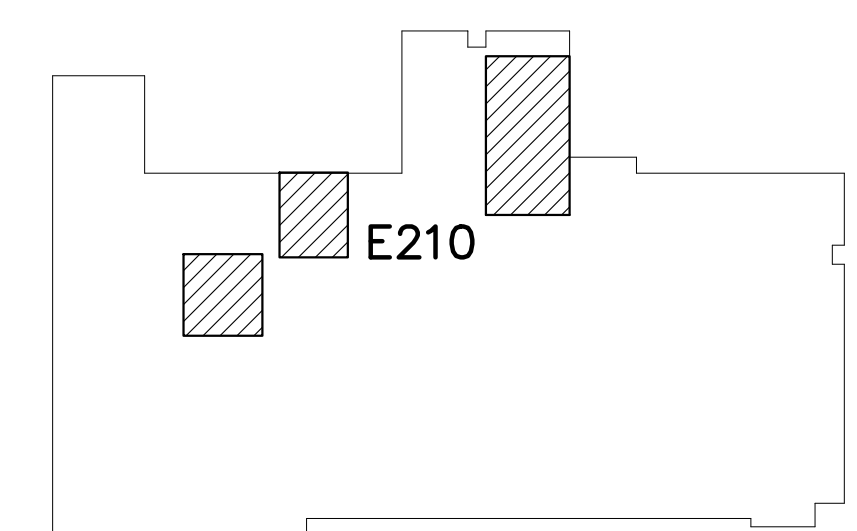
1. PROVIDE FIRE STOPPING AT ALL CONDUIT, BOX, AND MOUNTING PENETRATIONS AT ALL 1-HR FIRE SEPARATION WALLS AND CEILING ASSEMBLIES AS SHOWN ON LIFE SAFETY PLANS, SPECIFICATIONS, AND DETAILS.
2. SEE SHEET E501 FOR EQUIPMENT SCHEDULES AND RECEPTACLE SCHEDULES. ALSO SEE KITCHEN EQUIPMENT PROVIDER DRAWINGS FOR MORE INFORMATION.
3. VERIFY ALL OUTLET LOCATIONS PRIOR TO ROUGH-IN. OFFSET RECEPTACLES IN ADJACENT ROOMS TO ENSURE NO RECEPTACLES ARE BACK TO BACK (MINIMUM OF 6" BETWEEN RECEPTACLES.) SEE ARCHITECTURAL PLANS FOR FIRE RATED WALLS.
4. COORDINATE RECEPTACLE AND COMMUNICATIONS/TELEPHONE BOX HEIGHTS WITH COUNTER ELEVATIONS AS SHOWN ON ARCHITECTURAL AND KITCHEN EQUIPMENT DRAWINGS.
5. ALL TELEPHONE/DATA POINTS SHALL BE SUPPLIED WITH TWO JUNCTION BOXES, ONE FOR DATA, ONE FOR TELEPHONE. TYPICAL FOR ALL CONNECTIONS.

KITCHEN ELECTRICAL PLAN NOTES

1. IN ADDITION TO POWER TO CONDENSING UNIT: PROVIDE PATHWAY FOR (7) #12, (1) #12G IN A 3/4" C FOR ASSOCIATED EVAPORATOR UNIT FOR CONTROL.
2. PROVIDE A CONNECTION TO ANTI-SWEATS AND DRAIN HEATER IN FREEZER AS COORDINATED WITH PROVIDER.



KEY PLAN



**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRISVILLE, NC 28557  
(252) 247-7179  
LICENSE NO. C-0647

**PROFESSIONAL ENGINEER**  
#PE021990  
11/01/2014

**COPYRIGHT STATEMENT**  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by law.

20 JANUARY, 2023

Matthew A Conte, AIA  
NC REG.#15129

**ELEVEN 18 ARCHITECTURE**  
A WOMEN'S BUSINESS ENTERPRISE  
NC License #1919  
Mailing Address:  
424 E. Central Blvd., #42  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.255.5300

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**

40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA CONTRACTORS**

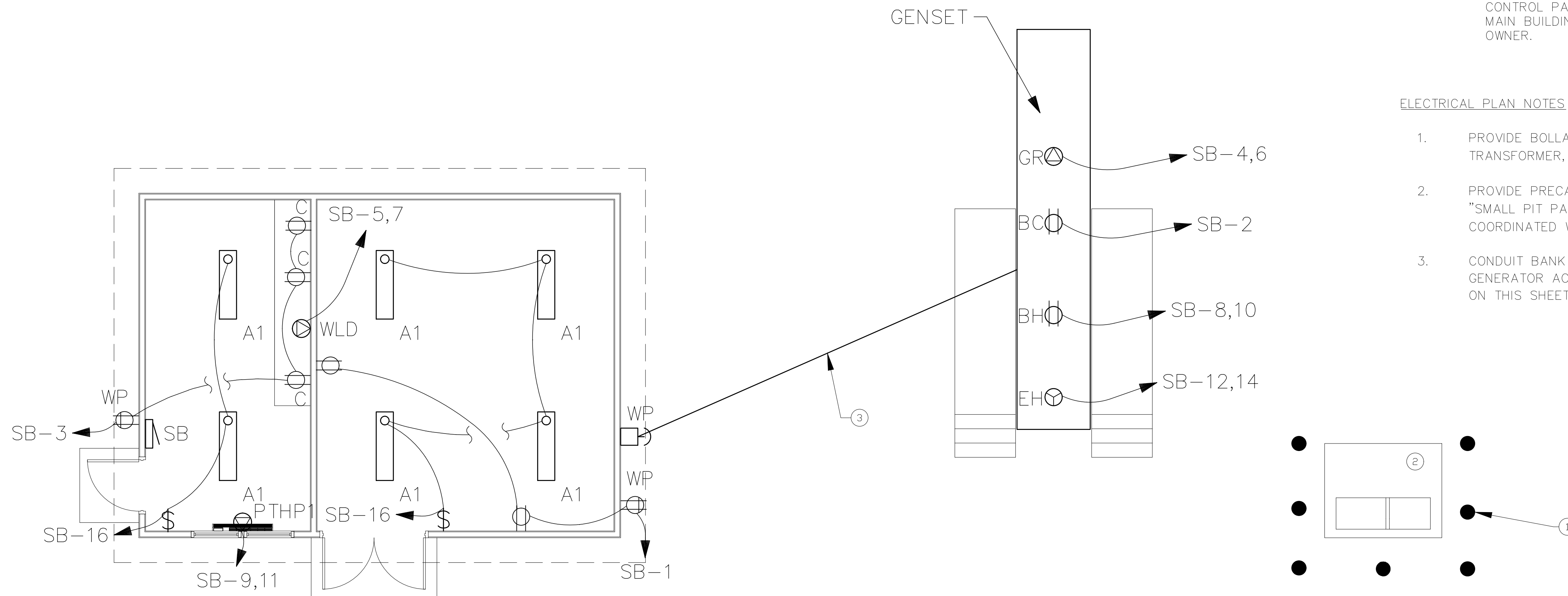
ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407.745.5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

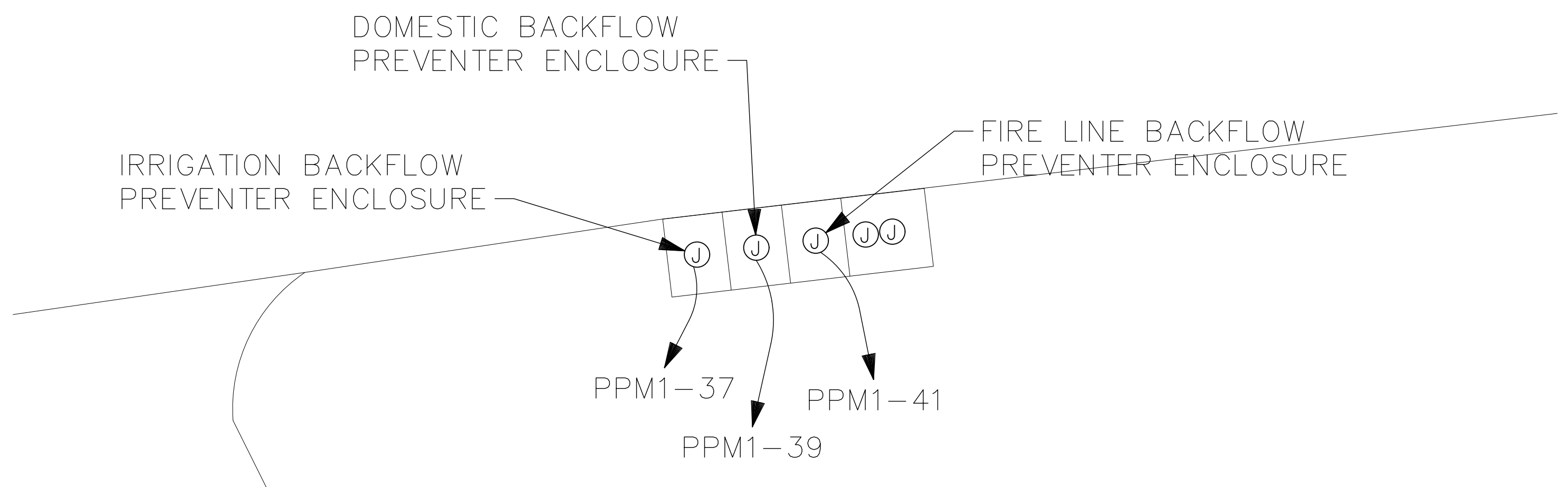
| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
| 3         | 3/22/2023 | REVISION 3       |

**E210**  
ENLARGED AREA ELECTRICAL PLAN





1 STORAGE BUILDING, GENERATOR, AND UTILITY TRANSFORMER PAD POWER PLAN  
SCALE: 1/4"=1'-0"



2 BACKFLOW PREVENTER POWER PLAN  
SCALE: NONE

ELECTRICAL GENERAL NOTES:

1. PROVIDE CONDUITS AND REQUIRED WIRING STUBBED FROM GENERATOR CONTROL PANEL TO STORAGE BUILDING. (1) 3/4" INCH FOR EMERGENCY STOP STATION BUTTON FOR GENERATOR (E.C. TO PROVIDE WITH GENERATOR). (3) 1" CONDUITS AND REQUIRED WIRING TO PANEL "SB" IN STORAGE BUILDING FOR GENERATOR ACCESSORIES NOTED.
2. PROVIDE (1) 1" CONDUIT AND REQUIRED WIRING GENERATOR CONTROL PANEL TO "ATS" IN MAIN BUILDING ELECTRICAL ROOM.
3. PROVIDE (1) 1" CONDUIT AND REQUIRED WIRING FROM GENERATOR CONTROL PANEL TO GENERATOR REMOTE ANNUNCIATOR PANEL IN MAIN BUILDING. VERIFY LOCATION OF ANNUNCIATOR PANEL WITH OWNER.

ELECTRICAL PLAN NOTES

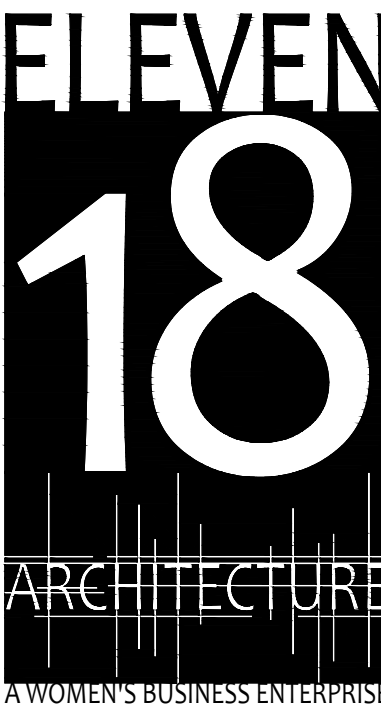
1. PROVIDE BOLLARDS FOR PROTECTION OF UTILITY TRANSFORMER, TYPICAL OF (7.)
2. PROVIDE PRECAST OR POURED IN PLACE CONCRETE "SMALL PIT PAD" FOR SERVICE TRANSFORMER AS COORDINATED WITH POWER COMPANY.
3. CONDUIT BANK FOR EMERGENCY STOP AND ALL GENERATOR ACCESSORIES NOTED, SEE GENERAL NOTE 1 ON THIS SHEET.

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRISVILLE, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



20 JANUARY, 2023

Matthew A Conte, AIA  
NC REG.#15129



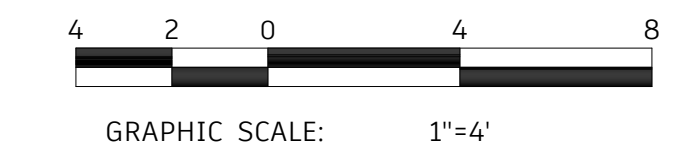
NC License #1919  
Mailing Address:  
424 E. Central Blvd. #542  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr. #307  
Orlando, FL 32803  
407.285.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

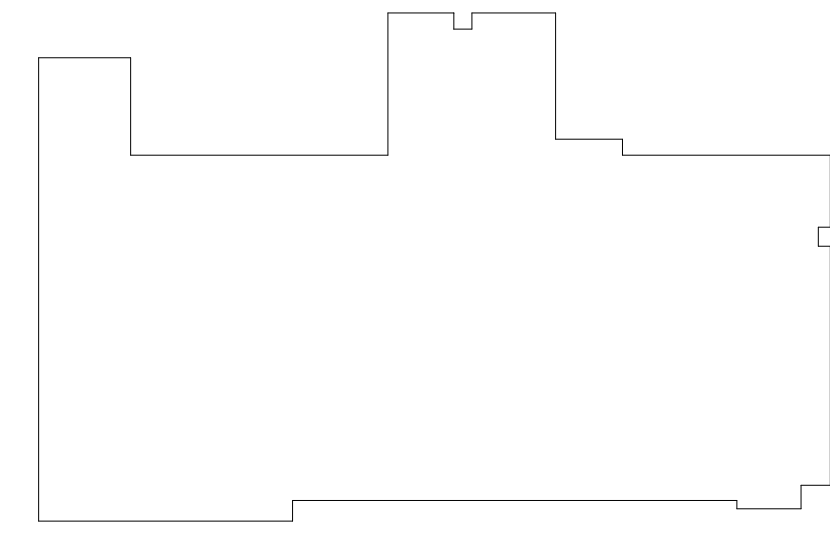
PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407-745-5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien



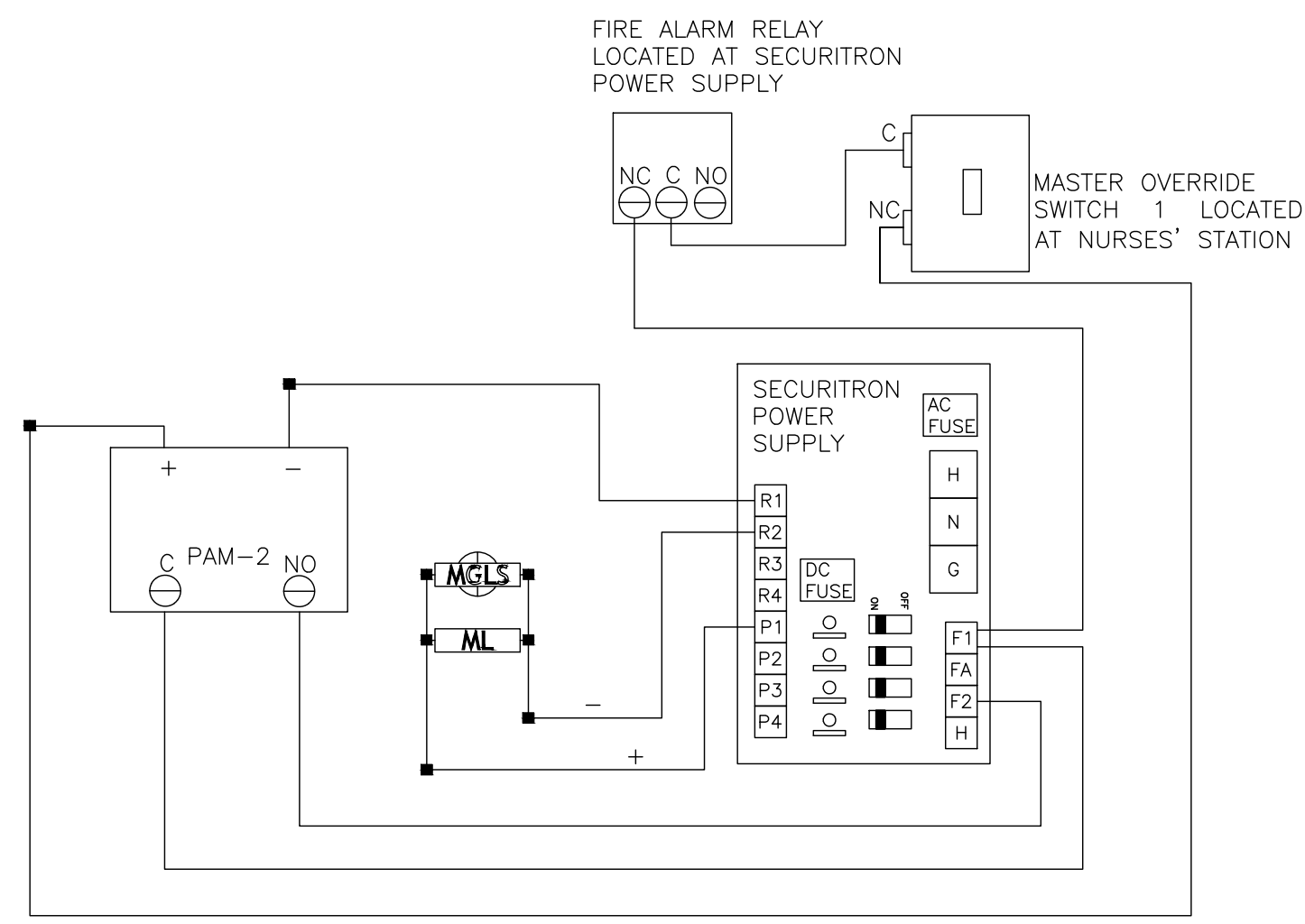
KEY PLAN



| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**E211**  
UTILITY AND GENERATOR PLAN





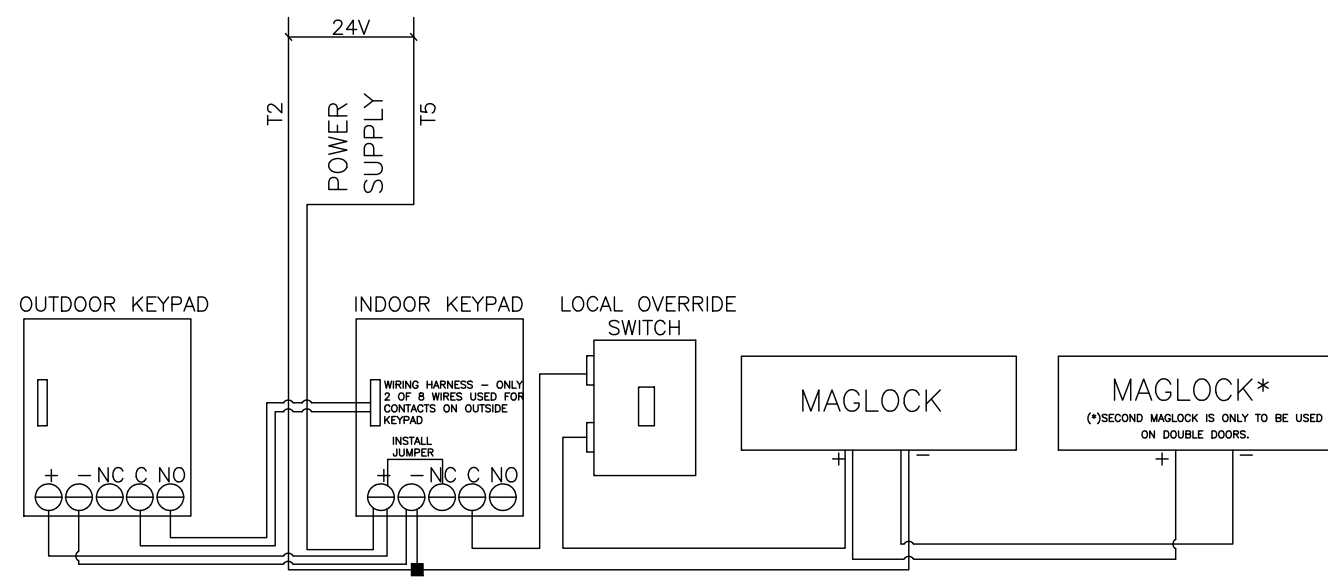
NOTE: SYSTEM STATUS IS SHOWN IN NORMAL OPERATION WITH ALL MAGLOCKS ENERGIZED (DOORS HELD CLOSED).

1 MAGLOCK SYSTEM DIAGRAM  
SCALE: NONE

| MAGLOCK SYSTEM SCHEDULE |        |   |  |   |
|-------------------------|--------|---|--|---|
| CALLOUT                 | SYMBOL | DESCRIPTION   | NOTE 1   | NOTE 2  |
| B                       |        | DOORBELL CHIME  |  |   |
| DB                      |        | DOORBELL BUTTON                                       | PROVIDE WEATHERPROOF CASING WHEN DESIGNATED WITH "WP" TAG  |   |
| DC                      |        | DOOR SECURITY CONTACT (SF520)                         |  |   |
| DS                      |        | ELECTRIC DOOR STRIKE (SF250)                          |  |   |
| ES                      |        | ELECTRIC DOOR STRIKE (SF250)                          |  |   |
| KP                      |        | KEYPAD (HONEYWELL OP95HON)                            |  |   |
| KS                      |        | MAGLOCK KILL SWITCH WITH SCREAMER COVER (STI-13020NR) |  | KILL SWITCHES SHALL BE MOUNTED WITHIN 42" AND 48" TO CENTER OF SWITCH AFF, INCLUDING EMERGENCY STATION  |
| MGLS                    |        | GATELOCK LOCATION                                     |  |   |
| MKS                     |        | MASTER KILL SWITCH                                    |  |   |
| ML                      |        | MAGLOCK (ALARM CONTROLS AC600)                        | ALL MAGLOCKS SHALL DE-ENERGIZE ON ALL FIRE ALARMS AND MEET REQUIREMENTS OF THE NC BUILDING CODE 407.12 FOR SPECIAL LOCKING ARRANGEMENTS  | ALL MAGLOCK SHALL OPEN UNDER THE FOLLOWING CONDITIONS: COMMERCIAL POWER FAILURE, ACTIVATION OF THE FIRE ALARM, ACTIVATION OF SHUT-OFF SWITCH AT EMERGENCY STATION |
| MPS                     |        | MAGLOCK POWER SUPPLY (SECURITRON BPS-24-3)            | LOW VOLTAGE POWER (24VDC) FROM THE POWER SUPPLY IS CONTROLLED THROUGH SERIES CONNECTED MASTER OVERRIDE "KILL" SWITCH(ES) LOCATED AT NURSES STATION, WHEN THE MASTER KILL SWITCH(ES) IS/ARE TURNED TO THE "OFF" POSITION, ALL MAGLOCKS SHALL DE-ENERGIZE SIMULTANEOUSLY |   |

MAGLOCK SYSTEM GENERAL NOTES:

- THE ENTIRE MAGLOCK SYSTEM SHALL MEET ALL APPLICABLE CODES AND STANDARDS AND SHALL COMPLY WITH 2018 NCSBC, SECTION 407.12 AND SHALL BE CONSIDERED AS ONE SYSTEM.
- THE ENTIRE MAGLOCK SYSTEM SHALL BE INSTALLED BY A LICENSED ALARM CONTRACTOR LICENSED FROM THE NORTH CAROLINA ALARM LICENSING BOARD.
- THERE SHALL BE A MASTER MAGLOCK KILL SWITCH LOCATED AT EACH NURSE STATION, COVERED WITH A STI-13020NR SAFETY TECHNOLOGIES, INC STOPPER COVER WITH HORN. THIS KILL SWITCH WILL DE-ENERGIZE ALL MAGLOCK'S SIMULTANEOUSLY IF TURNED TO THE OFF POSITION.
- THERE SHALL BE A LOCAL MAGLOCK KILL SWITCH LOCATED WITHIN 36" OF EACH MAGLOCK CONTROLLED DOOR, COVERED WITH A STI-13020NR SAFETY TECHNOLOGIES, INC STOPPER COVER WITH HORN. THIS SWITCH SHALL BE DOUBLE POLE, SINGLE THROW SWITCH. THIS SWITCH WILL SERVE TWO FUNCTIONS:
  - BREAK POWER GOING TO THE MAGLOCK(S.)
  - PROVIDE A CONTACT FOR TIE-IN TO THE WIRELESS EMERGENCY CALL SYSTEM. THE WIRELESS EMERGENCY CALL SYSTEM WILL USE A UNIVERSAL TRANSMITTER (SF525UL) TO MONITOR THE SECOND SET OF CONTACTS. WHEN THE REQUIRED KILL SWITCH IS TURNED OFF, THE CONTACT WILL OPEN AND TRIP THE UNIVERSAL TRANSMITTER. THIS IN TURN WILL CAUSE AN ALARM CONDITION ON THE WIRELESS EMERGENCY CALL SYSTEM MASTER STATION (NC475 DESK W LS500 SOFTWARE AND NC 510 UL) WHICH WILL THEN SEND AN ALARM SIGNAL TO THE MASTER STATION.
  - WHEN THE KILL SWITCH IS TURNED ON, THE MAGLOCK SYSTEM WILL RETURN TO NORMAL.
- THE MAGLOCK SYSTEM SHALL DE-ENERGIZE UPON ACTIVATION OF THE AUTOMATIC FIRE DETECTION SYSTEM.
- AT EACH EMERGENCY STATION INCLUDE A WIRING DIAGRAM UNDER GLASS. WIRING DIAGRAM SHALL IDENTIFY PANEL AND BREAKER FOR 120V SERVICE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING TO THE 120V SYSTEM AS REQUIRED. SEE PANEL "GPDP" PANEL SCHEDULE ON SHEET E504.
- PROVIDE DOORBELL TO CARE BASE 176.
- ALL WIRE IS TO BE TWO CONDUCTOR TWISTED #16 STRANDED AND IS TO BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.
- ALL DEVICES AND OPERATION OF MAGLOCK SYSTEM SHALL BE COORDINATED AND CONFIRMED WITH AHJ.



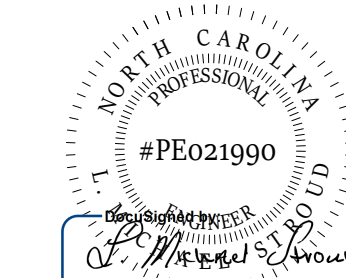
2 MAGLOCK SYSTEM DOOR COMPONENTS  
SCALE: NONE

| EMERGENCY CALL SCHEDULE |        |   |   |  |
|-------------------------|--------|---|---|--|
| CALLOUT                 | SYMBOL | DESCRIPTION   | NOTE 1  | NOTE 2   |
| B                       |        | EMERGENCY PULL CORD BEDROOM (SF123 W/ IH121K)                           |   | MOUNT AT 42" AFF U.O.N., VERIFY AND COORDINATE LOCATIONS OF ALL PULL CORDS WITH BED LAYOUT AND BATHROOM HAND RAIL LAYOUT, PULL CORD SHALL ACTIVATE LIGHT SOUNDER AT EMERGENCY STATION, COORDINATE WITH FURNITURE LAYOUT                                |
| DL                      |        | DOMELIGHT TWO LAMP (L122)   |   | COORDINATE LOCATION WITH ARCHITECTS ELEVATIONS   |
| E                       |        | EMERGENCY PULL CORD (SF123 W/ IH121K)                                   | PROVIDE WEATHERPROOF CASING WHEN DESIGNATED WITH "WP" TAG (SF123 W/ IH121K, RP087 GASKET) | MOUNT AT 42" AFF U.O.N., VERIFY AND COORDINATE LOCATIONS OF ALL PULL CORDS WITH BED LAYOUT AND BATHROOM HAND RAIL LAYOUT, PULL CORD SHALL ACTIVATE LIGHT SOUNDER AT EMERGENCY STATION, BATHROOMS AND RESTROOMS SHALL HAVE PULL CORD TO ACTIVATE SYSTEM |
| ECR                     |        | EMERGENCY CALL REMOTE MASTER STATION (NC415D)                           |   |  |
| EM                      |        | EMERGENCY CALL MASTER STATION (NC475 DESK W LS500 SOFTWARE & NC 510 UL) |   |  |
| EPS                     |        | EMERGENCY CALL POWER SUPPLY (NC120)                                     | SEE EQUIPMENT CONNECTION SCHEDULE FOR POWER CONNECTION                                    |  |
| VD                      |        | EMERGENCY CALL VISIBLE DUTY LIGHT                                       | AUDIBLE SIGNAL AND VISIBLE DUTY LIGHT SHALL ACTIVATE                                      |  |

EMERGENCY CALL GENERAL NOTES:

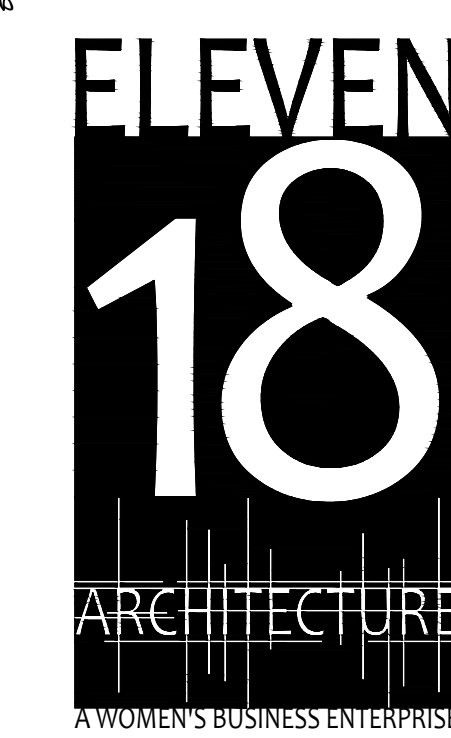
- ALL RECEPTACLES FOR THE WIRELESS EMERGENCY CALL SYSTEM REPEATER'S (WRP) SHALL BE IN THE ATTIC AND SHALL BE ON A DEDICATED CIRCUIT. ALL RECEPTACLES CAN BE ON ONE CIRCUIT AS LONG AS THERE ARE NO VOLTAGE DROPS AT THE RECEPTACLES. THESE RECEPTACLES SHALL BE ON GENERATOR POWER. SEE SHEET E206 AND E207.
- OWNER SHALL APPROVE EMERGENCY CALL SYSTEM BEFORE MATERIALS ARE ORDERED.
- CONTRACTOR SHALL PROVIDE ALL CONDUIT, MATERIAL, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM.
- SYSTEM SHALL BE HARD WIRED WITH WIRELESS REPEATERS.
- EMERGENCY CALL SYSTEM SHALL BE TEKTONE NC120 VISUAL SYSTEM WITH WIRELESS REPEATERS.
- SELECTED WIRELESS CALL SYSTEM SHALL BE UL LISTED AND MEET THE REQUIREMENTS OF LICENSURE RULE 10A NCAC 13F.0311 (i) FOR ELECTRICALLY OPERATED CALL SYSTEMS IN NEWLY LICENSED FACILITIES.

STROUD ENGINEERING, P.A.  
422 HWY 24  
MORRISVILLE, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



20 JANUARY, 2023

Matthew A Conte, AIA  
NC. REG.#15129



PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

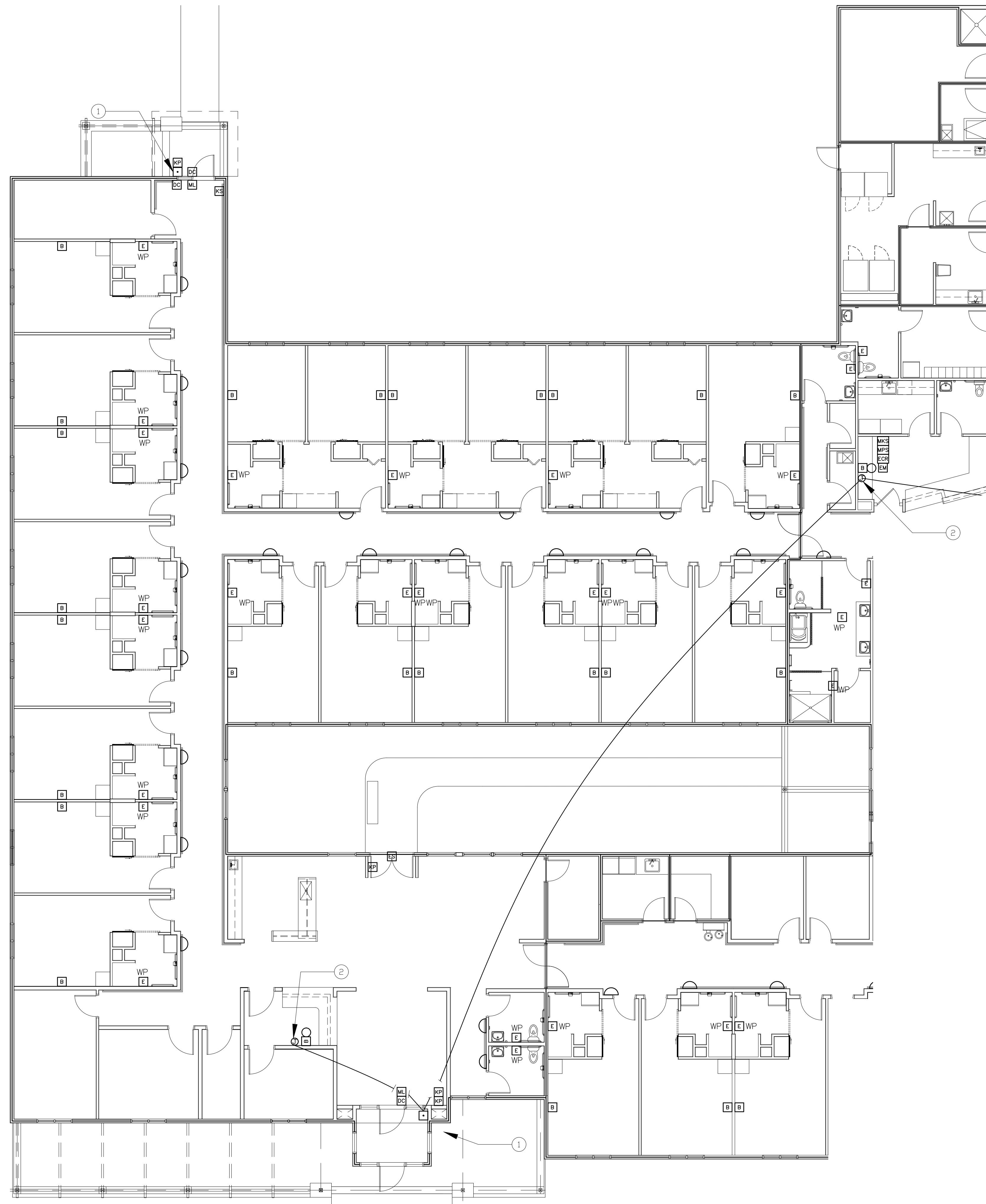
ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407-745-5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

**E300**  
EMERGENCY/SECURITY COVER SHEET

COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.



1  
E301 PARTIAL EMERGENCY/SECURITY PLAN  
SCALE: 1/8"=1'-0"

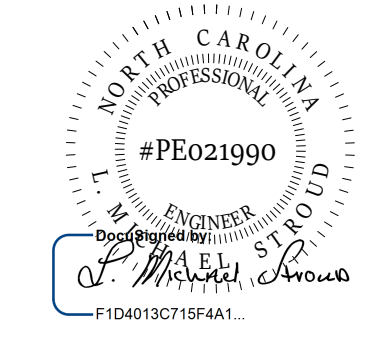
EMERGENCY/SECURITY GENERAL NOTES:

- SEE SHEET E300 FOR GENERAL NOTES AND SCHEDULES.
- PROVIDE 120/208V, 1PH, 4 WIRE, 1500W BATTERY INVERTER SYSTEM FOR EMERGENCY CALL WIRELESS SYSTEM. PROVIDE AT LEAST (5) 20A (COORDINATE EXACT REQUIREMENT WITH SUPPLIER) SINGLE POLE CIRCUIT BREAKERS FOR FEED TO ATTIC RECEPTACLE FOR EMERGENCY CALL TRANSMITTERS. VERIFY EXACT LOCATION OF TRANSMITTERS ADJACENT TO UNIT. PROVIDE BATTERY SUFFICIENT FOR 12 HOURS OF OPERATION.
- OWNER SHALL APPROVE EMERGENCY CALL SYSTEM REQUIREMENTS BEFORE MATERIALS ARE ORDERED.
- OWNER/"END USER" SHALL PROVIDE EMERGENCY CALL SYSTEM REQUIREMENTS AND REVIEW SHOP DRAWINGS PRIOR TO EQUIPMENT BEING PURCHASED OR INSTALLED.

EMERGENCY/SECURITY PLAN NOTES

- CALL BUTTON TO DOORBELL CHIME IN CARE BASE 176.
- PROVIDE PUSH BUTTON FOR DOOR RELEASE AT FRONT DOOR.

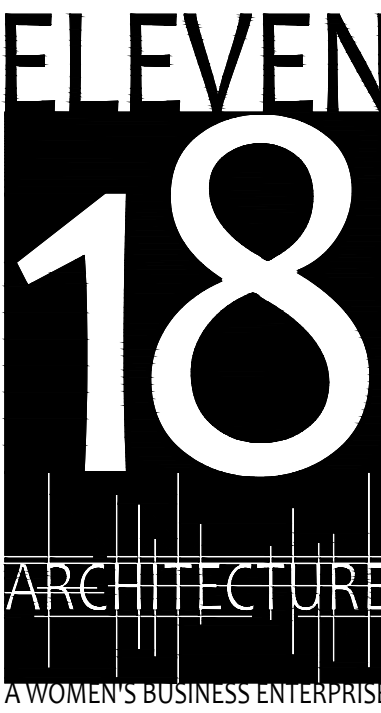
**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRISVILLE, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



**L. MICHAEL STROUD, P.E.**

20 JANUARY, 2023

Matthew A Conte, AIA  
NC. REG.#15129



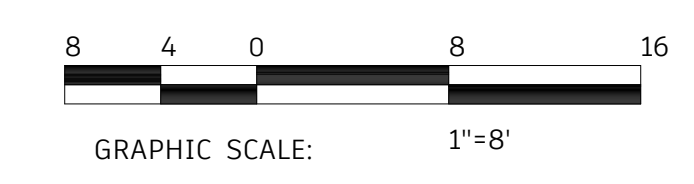
NC License #1919  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.255.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

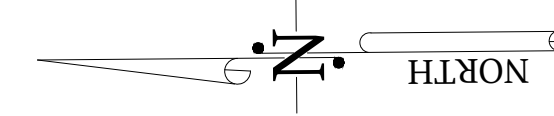
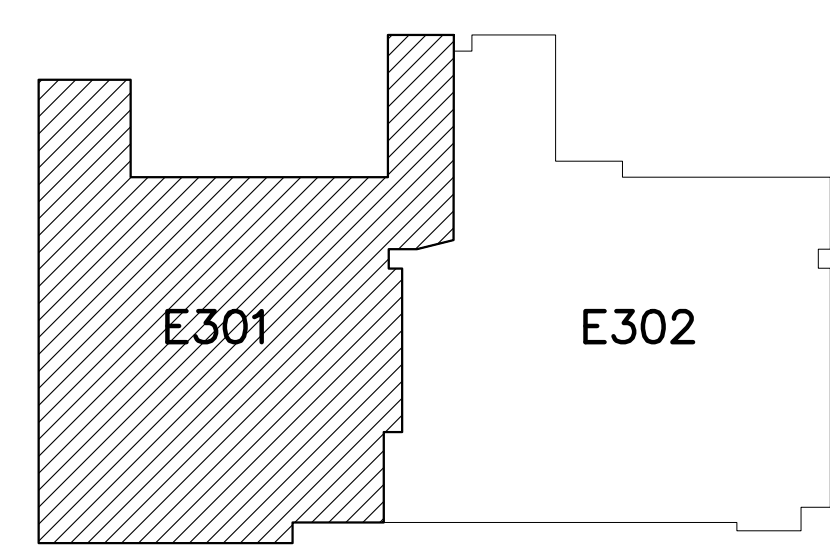
PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407.745.5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien



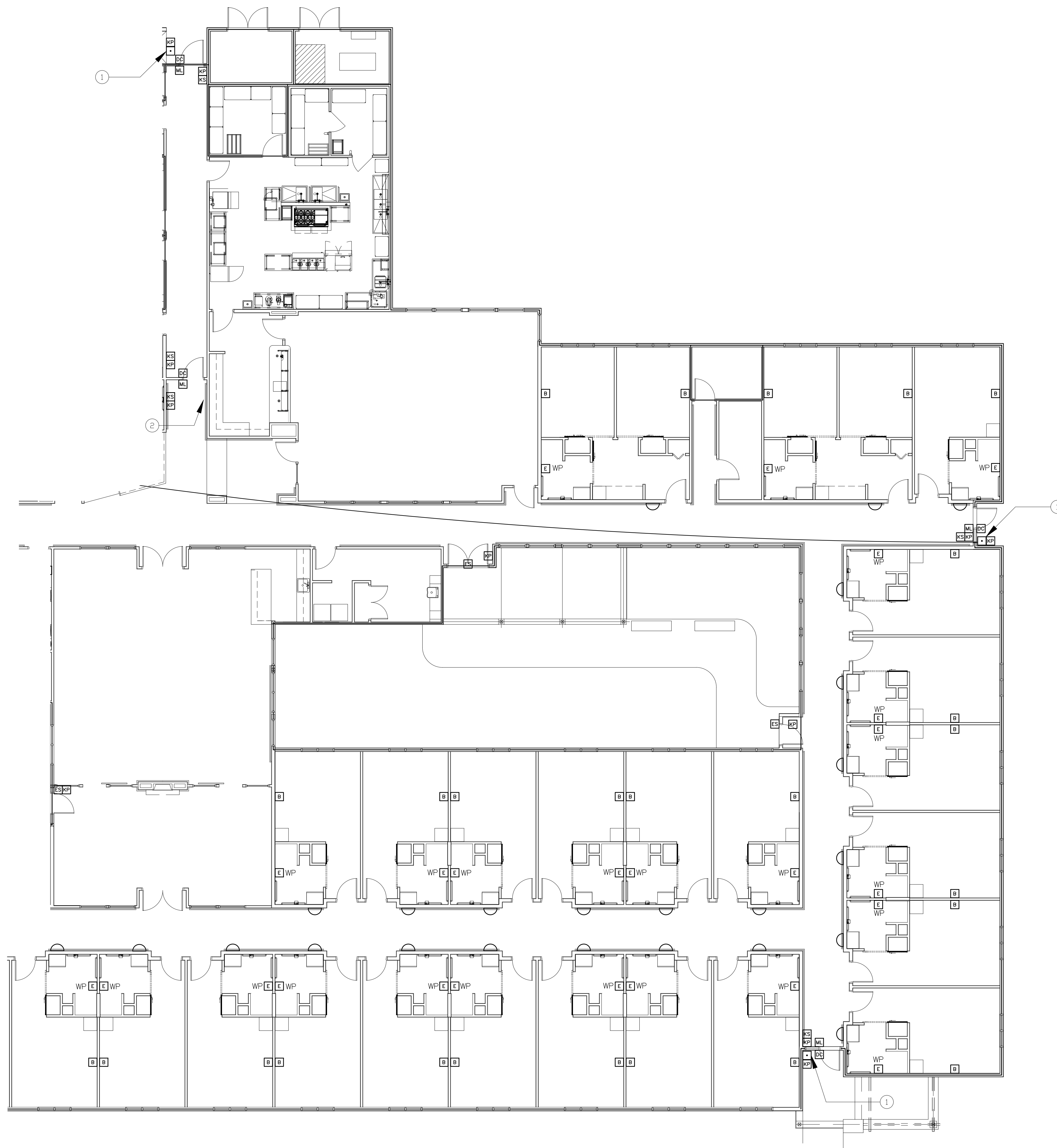
KEY PLAN



| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**E301**  
EMERGENCY/SECURITY  
PARTIAL PLAN





EMERGENCY/SECURITY GENERAL NOTES:

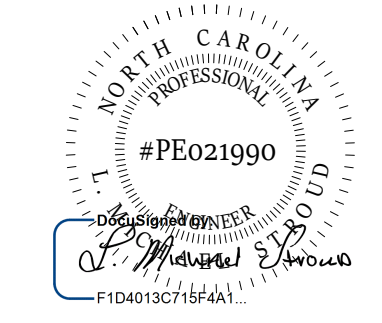
1. SEE SHEET E300 FOR GENERAL NOTES AND SCHEDULES.
2. PROVIDE 120/208V, 1PH, 4 WIRE, 1500W BATTERY INVERTER SYSTEM FOR EMERGENCY CALL WIRELESS SYSTEM. PROVIDE AT LEAST (5) 20A (COORDINATE EXACT REQUIREMENT WITH SUPPLIER) SINGLE POLE CIRCUIT BREAKERS FOR FEED TO ATTIC RECEPTACLE FOR EMERGENCY CALL TRANSMITTERS. VERIFY EXACT LOCATION OF TRANSMITTERS ADJACENT TO UNIT. PROVIDE BATTERY SUFFICIENT FOR 12 HOURS OF OPERATION.
3. OWNER SHALL APPROVE EMERGENCY CALL SYSTEM REQUIREMENTS BEFORE MATERIALS ARE ORDERED.
4. OWNER/"END USER" SHALL PROVIDE EMERGENCY CALL SYSTEM REQUIREMENTS AND REVIEW SHOP DRAWINGS PRIOR TO EQUIPMENT BEING PURCHASED OR INSTALLED.

EMERGENCY/SECURITY PLAN NOTES:

1. CALL BUTTON TO DOOR BELL CHIME IN CARE BASE 176.
2. SEE POWER DRAWINGS FOR DOOR CIRCUIT CONNECTION.

1 PARTIAL EMERGENCY/SECURITY PLAN  
E302 SCALE: 1/8"=1'-0"

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRISVILLE, NC 28557  
(252) 247-7479 LICENSE NO. C-0647



L. MICHAEL STROUD, P.E.

20 JANUARY, 2023

Matthew A Conte, AIA  
NC REG.#15129



NC License #1919  
Mailing Address:  
424 E. Central Blvd, #542  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr. #307  
Orlando, FL 32803  
407.755.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

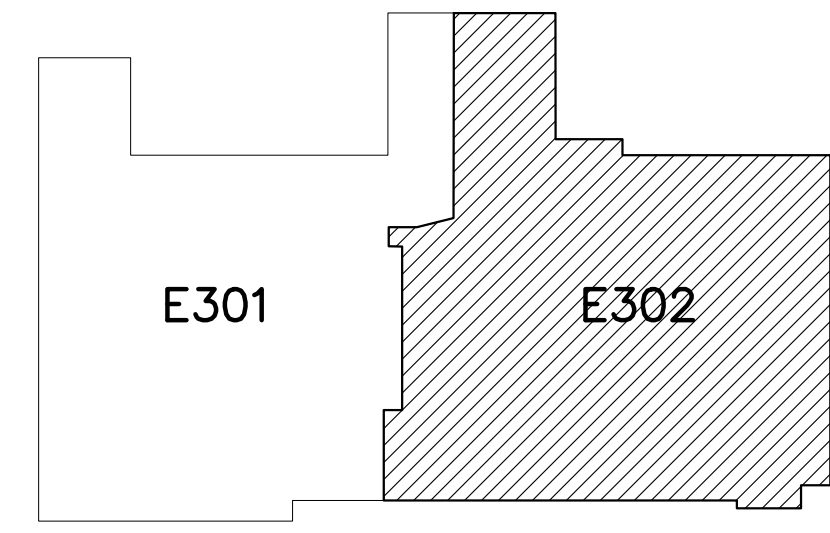
PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407.745.5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

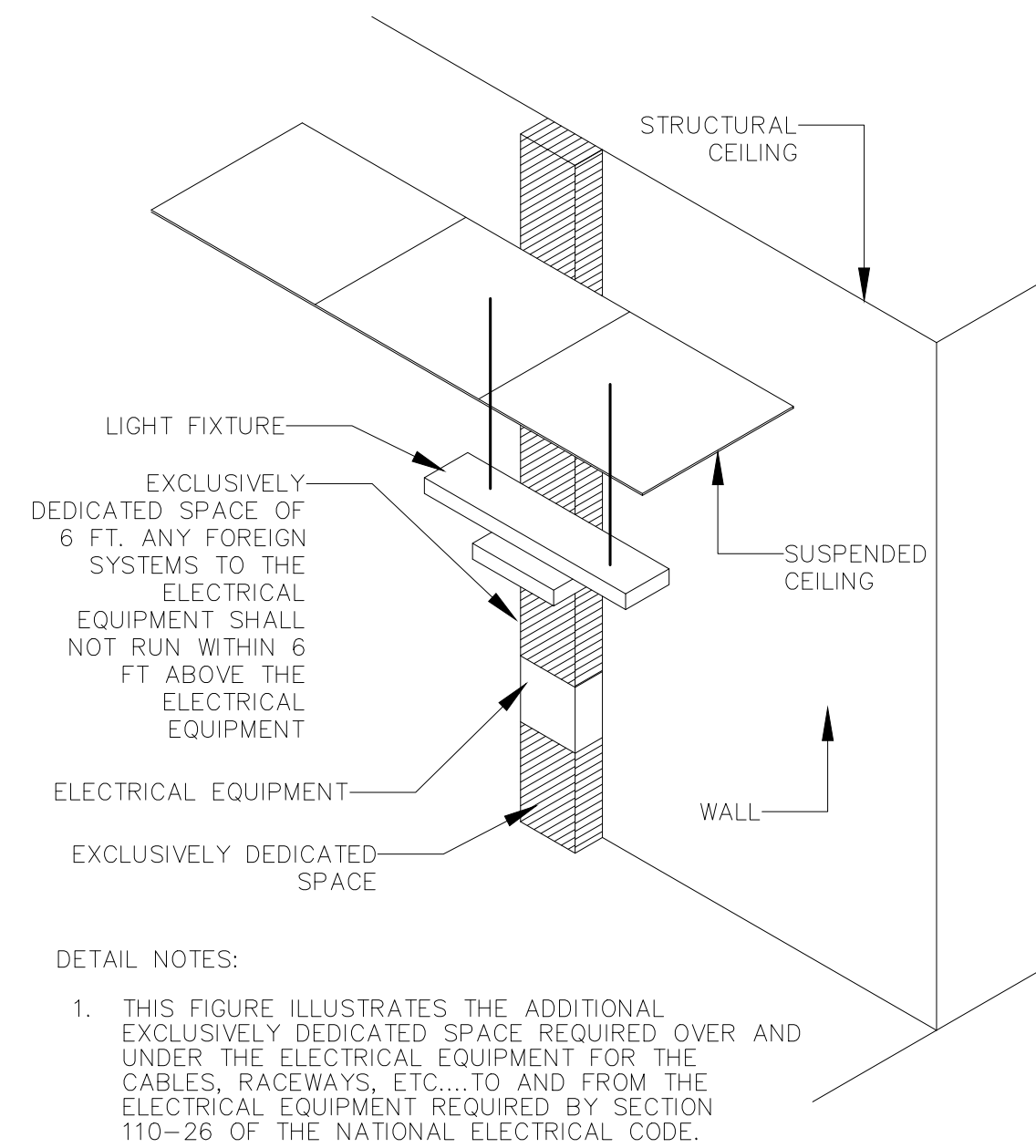


KEY PLAN



| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**E302**  
EMERGENCY/SECURITY  
PARTIAL PLAN



DETAIL NOTES:

1. THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER THE ELECTRICAL EQUIPMENT FOR THE CABLES, RACEWAYS, ETC., TO AND FROM THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110-26 OF THE NATIONAL ELECTRICAL CODE.

**1**  
E401 DEDICATED SPACE FOR ELECTRICAL EQUIPMENT  
SCALE: NONE

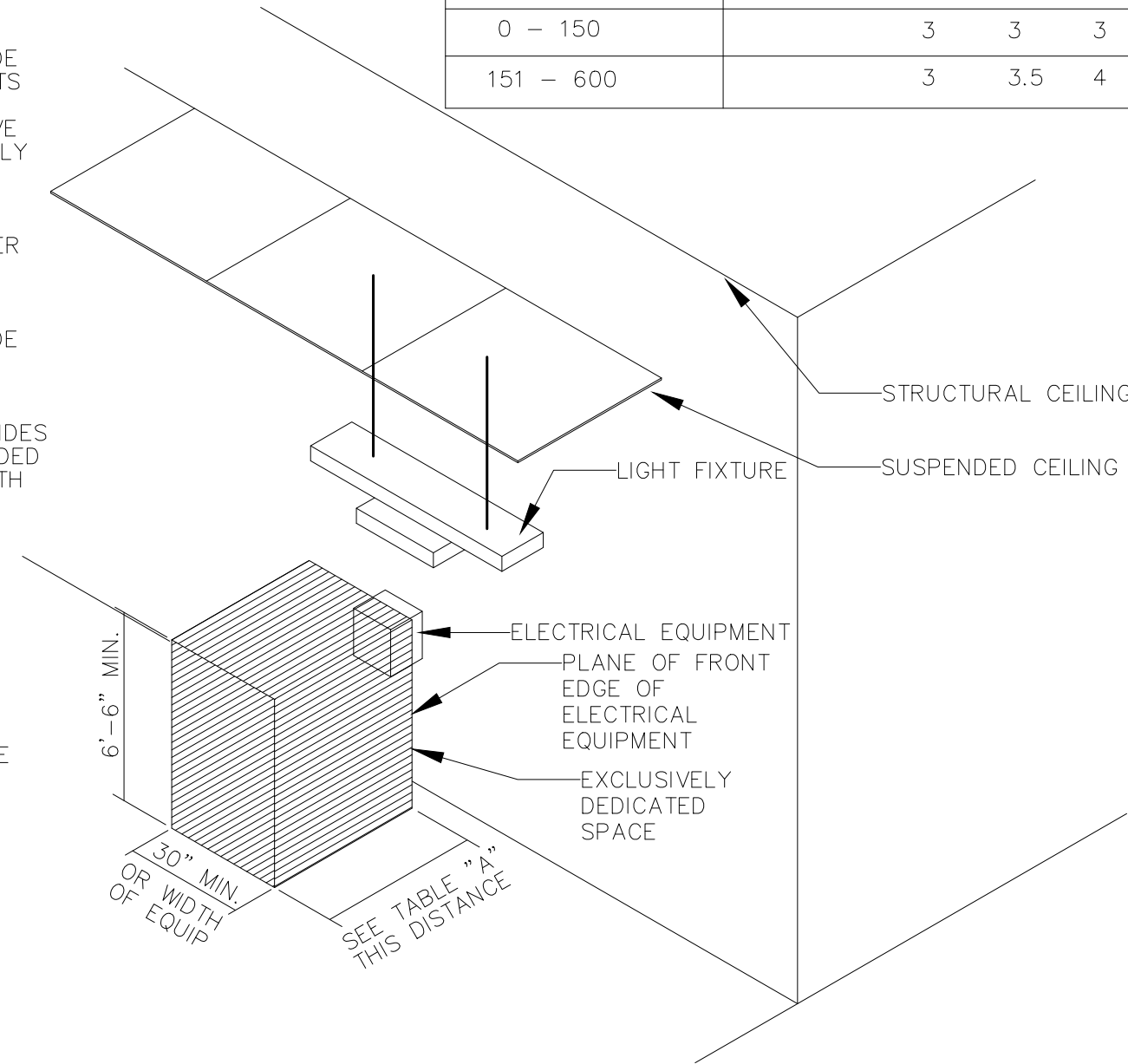
WHERE THE "CONDITIONS" ARE AS FOLLOWS:

1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

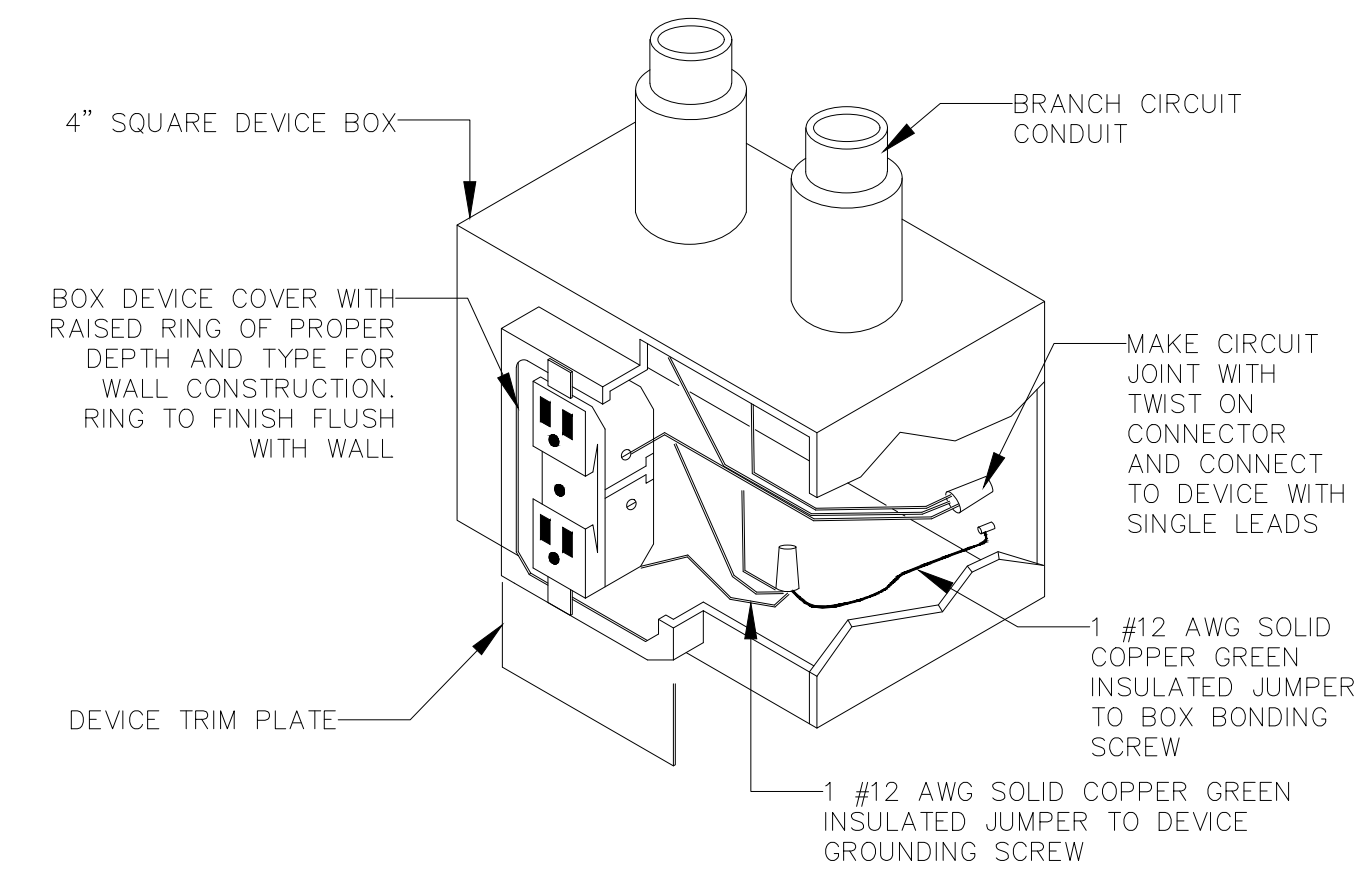
DETAIL NOTES:

1. THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110-26 OF THE NATIONAL ELECTRICAL CODE.

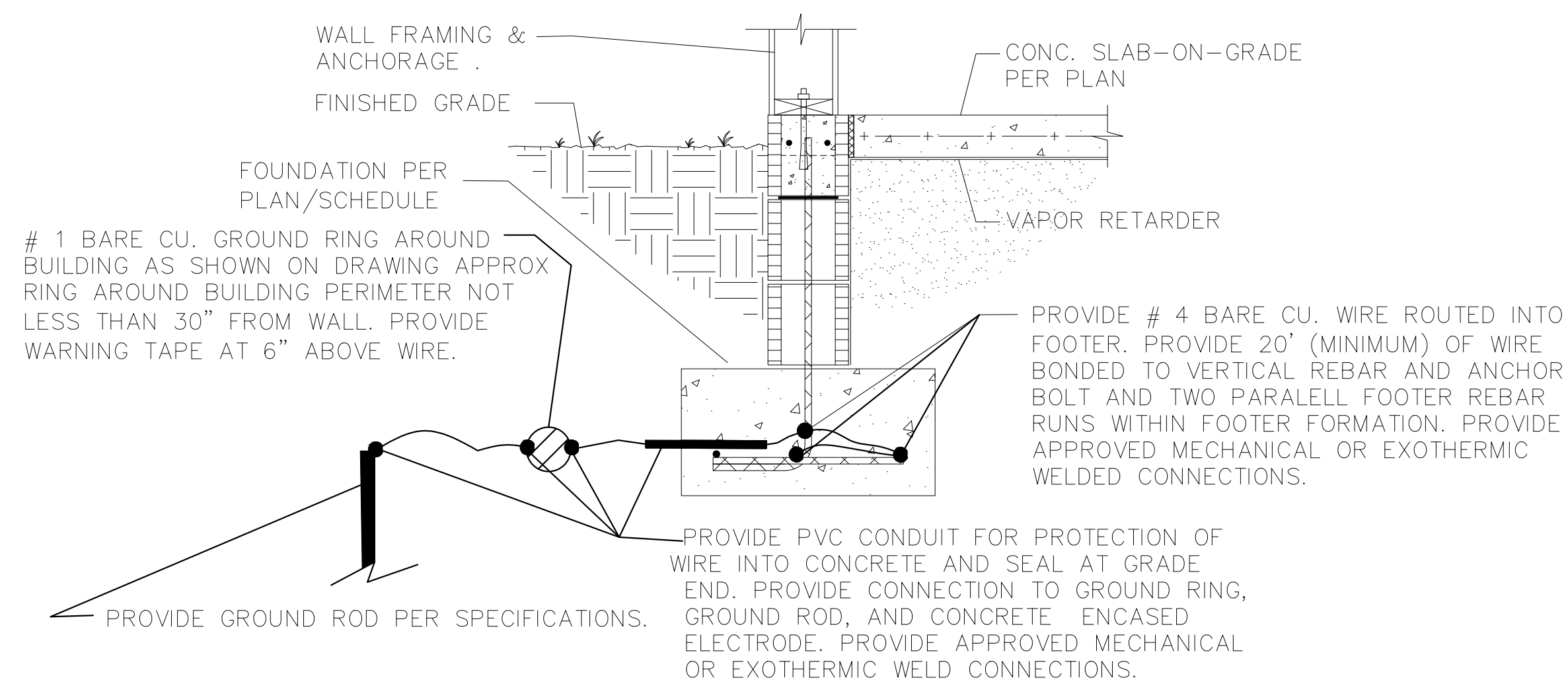
| VOLTAGE TO GROUNDED NOMINAL | MINIMUM CLEAR DISTANCE (FEET) |     |   |
|-----------------------------|-------------------------------|-----|---|
|                             | CONDITION: 1                  | 2   | 3 |
| 0 - 150                     | 3                             | 3   | 3 |
| 151 - 600                   | 3                             | 3.5 | 4 |



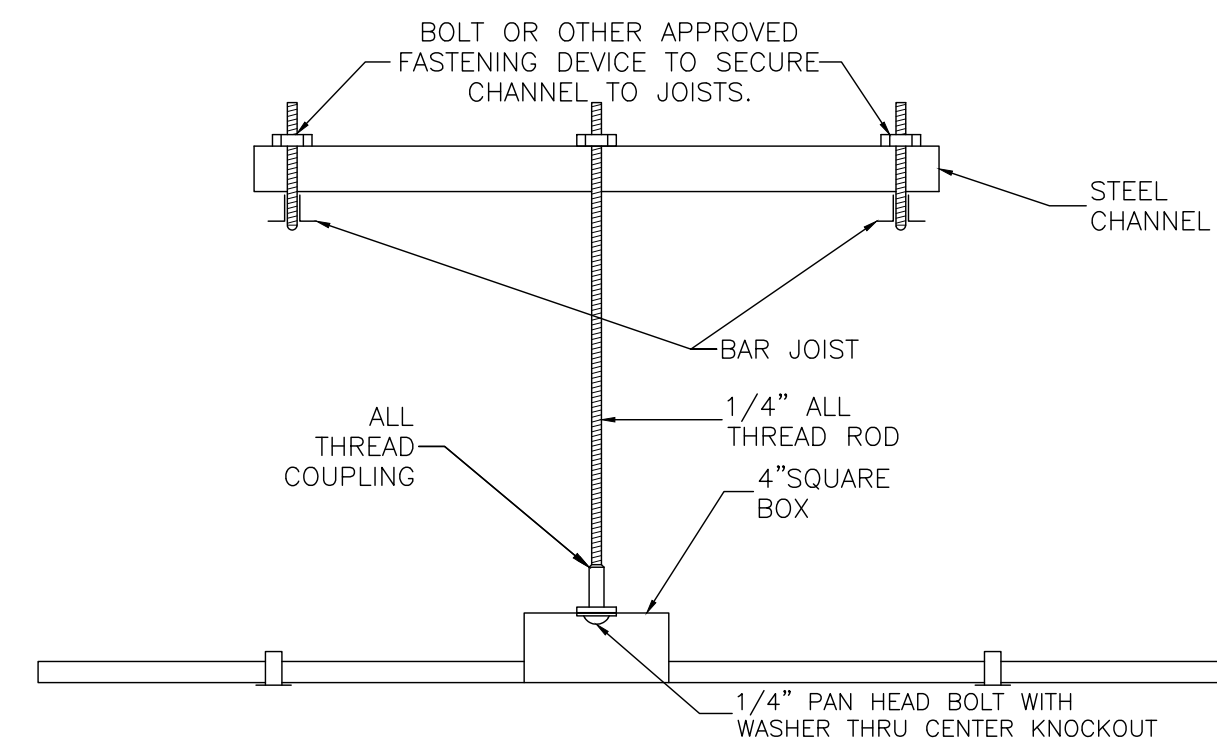
**2**  
E401 WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT  
SCALE: NONE



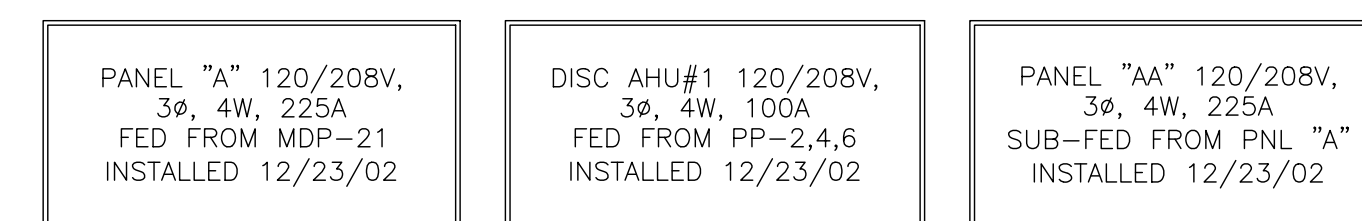
**3**  
E401 TYPICAL RECEPTACLE GROUNDING DETAIL  
SCALE: NONE



**4**  
E401 GROUND RING FOUNDATION DETAIL (TYPICAL OF 4 LOCATIONS)  
SCALE: NONE



**5**  
E401 CEILING BOX SUPPORT DETAIL  
SCALE: NONE



NOTE:  
1. SUBMIT COMPLETE LIST OF PROPOSED NAMEPLATES TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

**6**  
E401 TYPICAL NAMEPLATE DETAIL  
SCALE: NONE

COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MOKREHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647  
**L. MICHAEL STROUD, P.E.**

**NORTH CAROLINA PROFESSIONAL ENGINEER**  
#PE021990  
Matthew A. Conte, AIA  
NC REG.#15129

20 JANUARY, 2023

**ELEVEN 18 ARCHITECTURE**  
A WOMEN'S BUSINESS ENTERPRISE

NC License: 5199  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.255.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWL'S CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

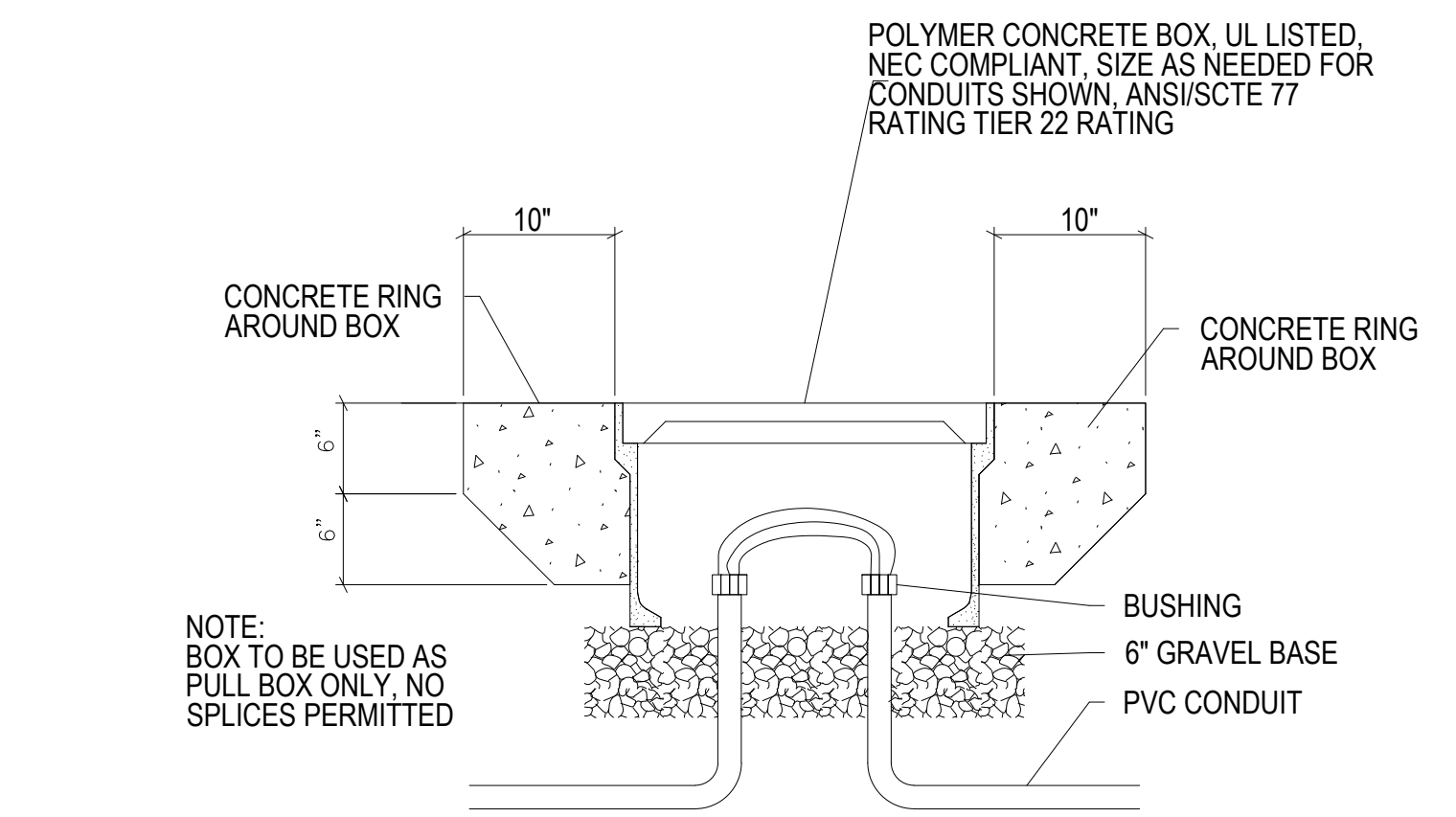
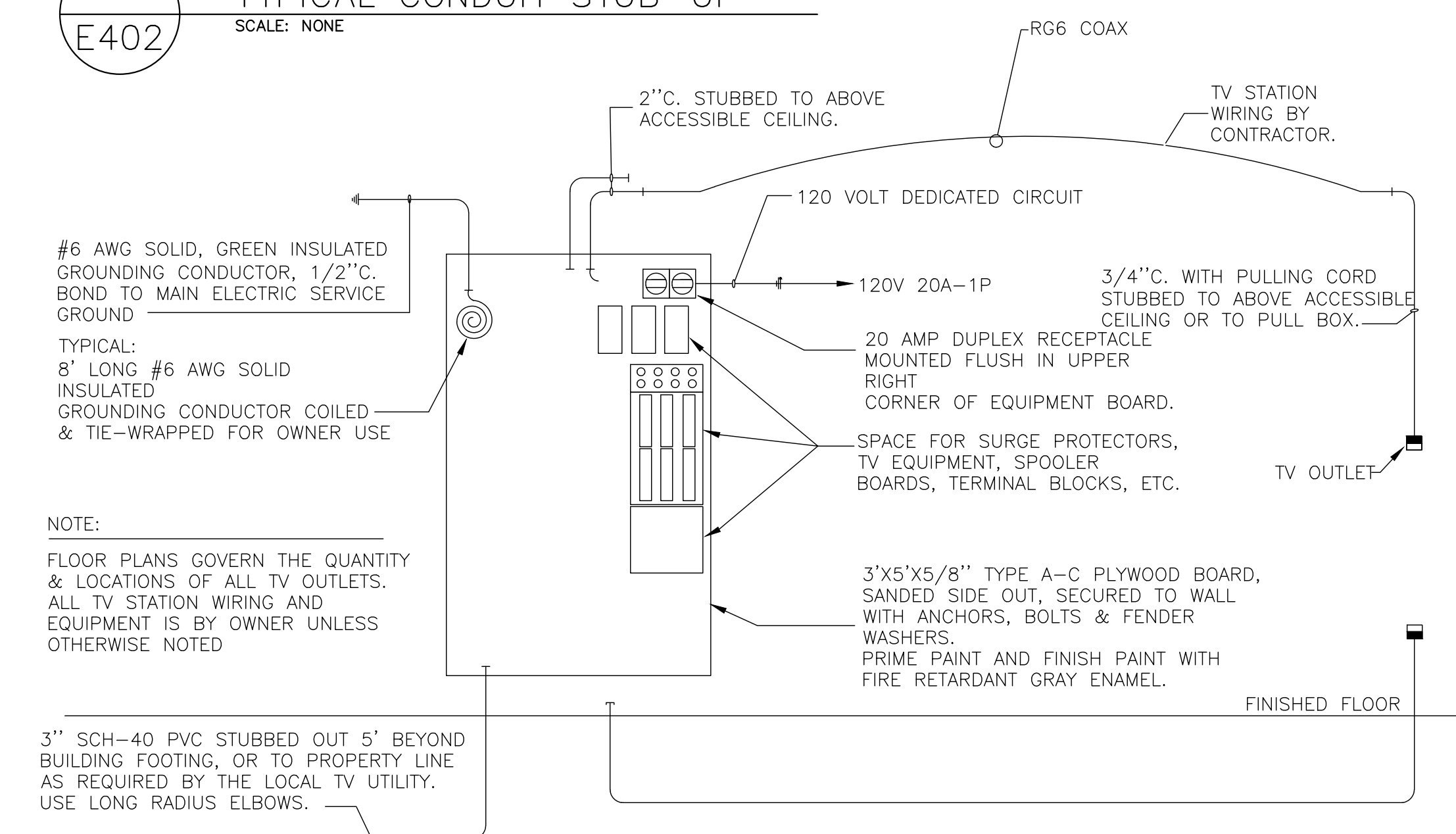
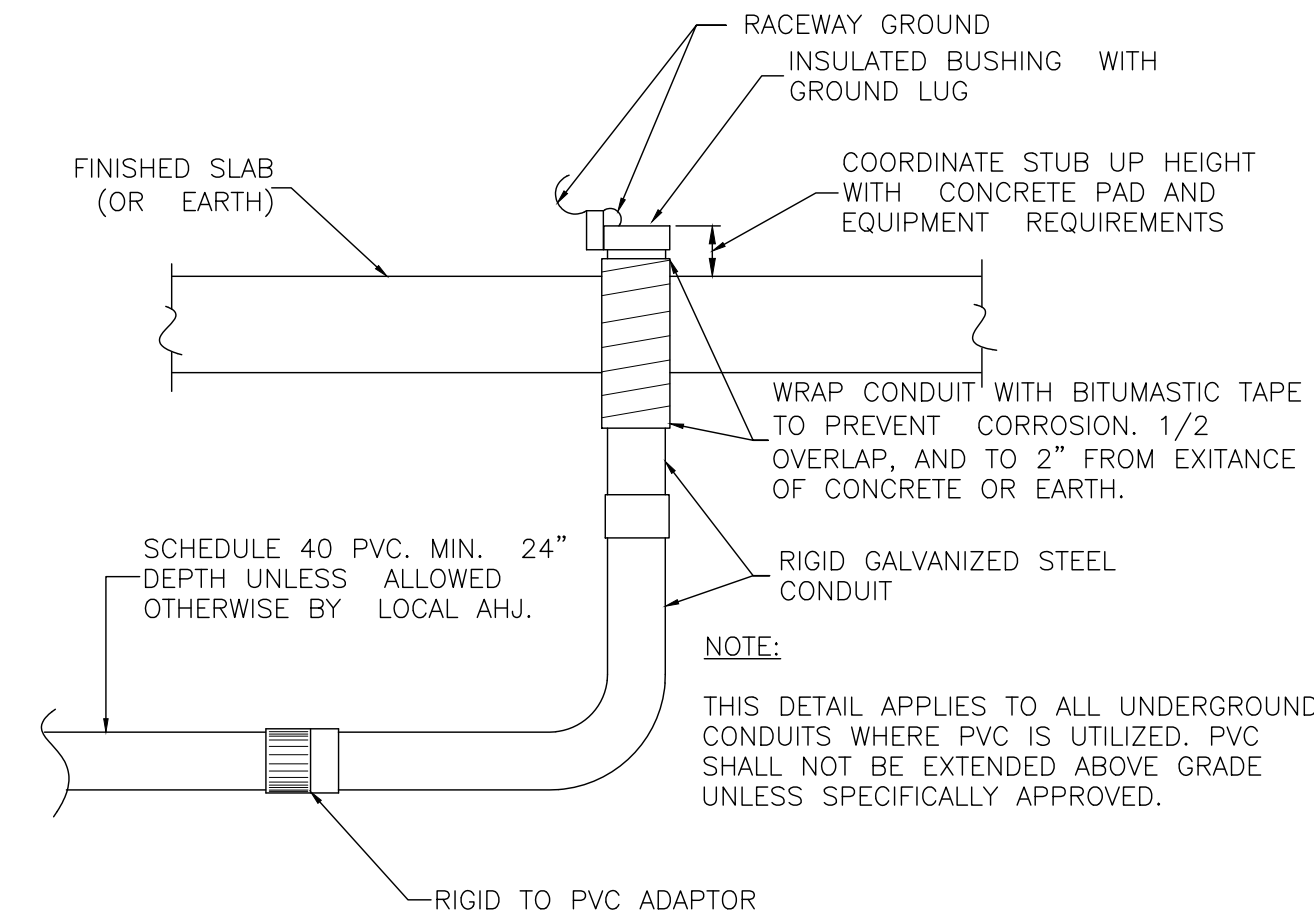
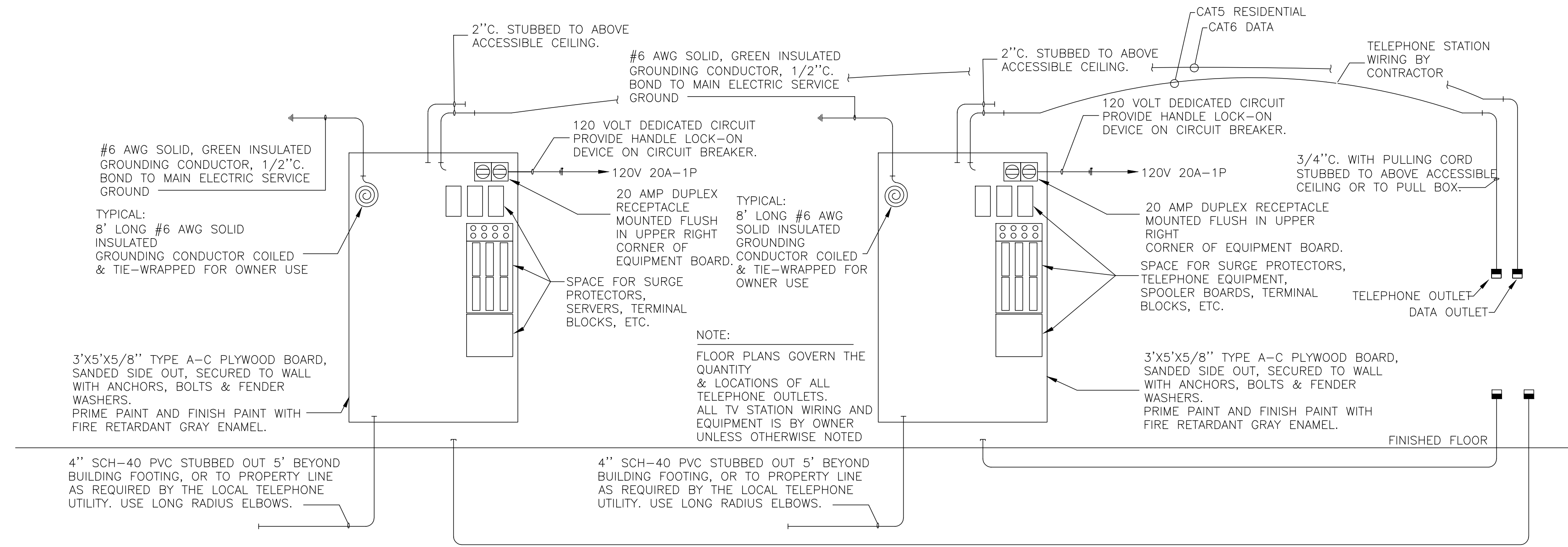
ELEVEN18 PROJECT LEAD:  
**MATTHEW A. CONTE**  
407-745-5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

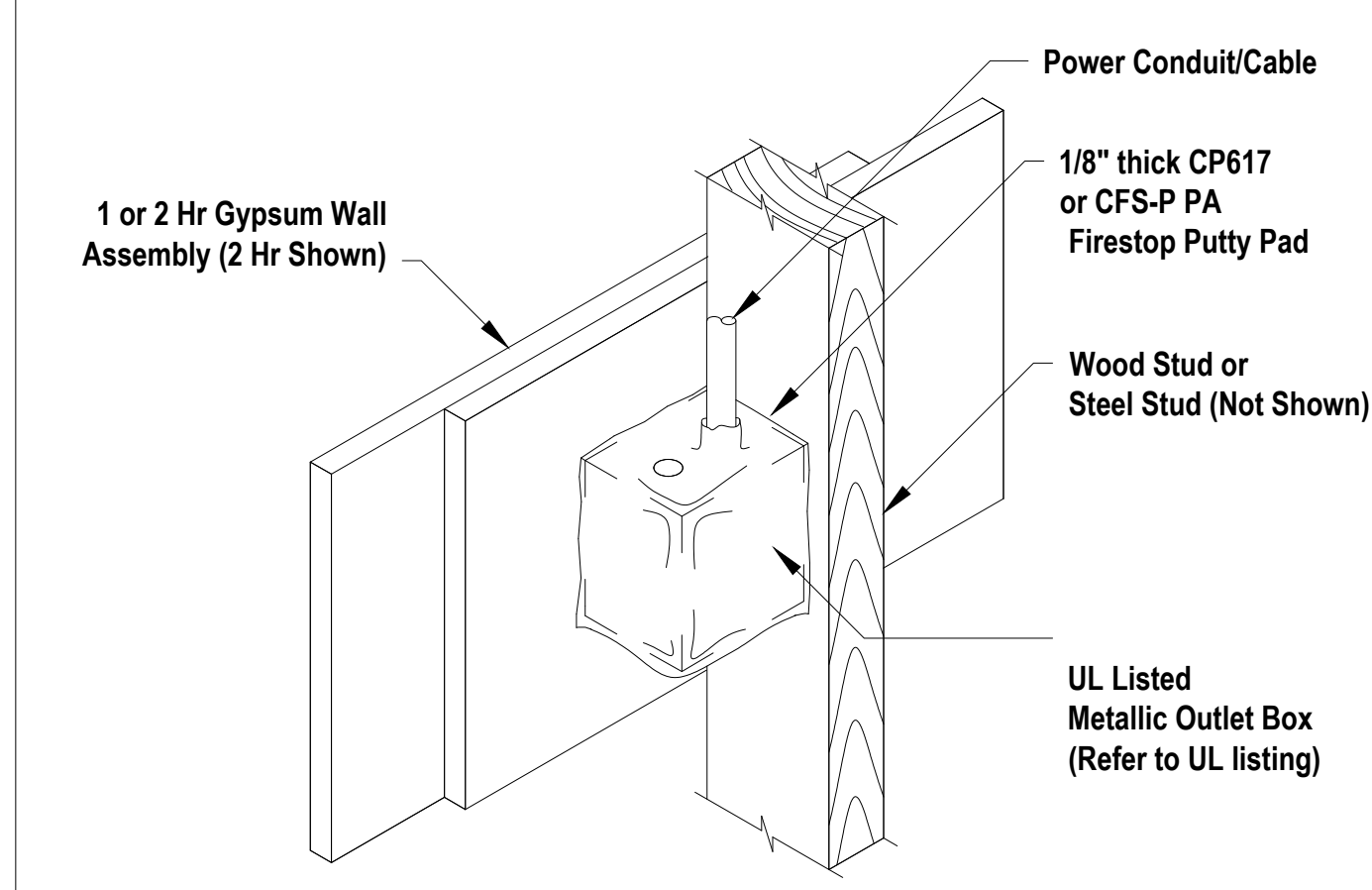
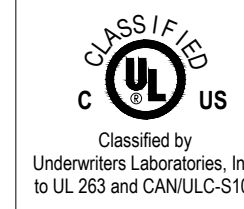
| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**E401**  
ELECTRICAL DETAILS





**WALL /CEILING Opening Protective Materials (CLIV, CLIV7)**



**Wall/Ceiling Opening Protective Materials (CLIV, CLIV7)**

CP 617 or CFS-PA firestop Putty Pads, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in., provided that the boxes are not installed back-to-back (unless otherwise indicated). Installation shall comply with the National Electrical Code (NFPA 70). Min 1/8 in. thick (CP 617) or min 0.2 in. (CFS-P PA) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and conduit fittings/connectors and to completely seal against the stud and gypsum board in the wall cavity unless otherwise noted below. When CFS-P PA is used, the putty pads may be installed with the release liner intact on the outside of the pad with the exception of any overlaps, in which case the liner is to be removed from the bottom layer at the overlap location. The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are specified below.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in., or max 4-3/8 by 4-7/8 by max 2-1/8 in., flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 hr fire rated V446 gypsum board/steel stud or U341 gypsum board/wood stud Wall and Partition Design No. in the Fire Resistance Directory. When U341 wall design is used, wall shall be sheathed with 5/8 in. gypsum board, and glass or mineral fiber batt insulation shall be installed in stud cavities in accordance with U341 design. Boxes may be installed back-to-back.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 and 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 0.8 pcf density fiberglass batt insulation is to be installed within the wall cavity required for 1 hr fire rated gypsum board wall assemblies and optional in 2 hr fire rated gypsum wallboard assemblies.

Nominal dimensions listed in previous paragraph's also apply to octagon round boxes and fittings.

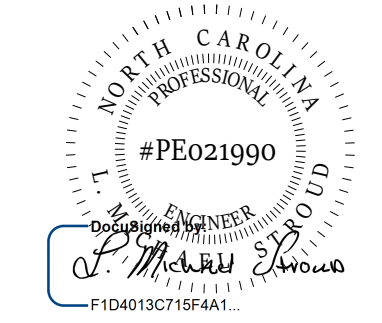
| Fire Rating | Wall Type                                 |
|-------------|---|
| 2 hour      | U300, U400 or V400 - wood or steel studs  |
| 1 hour      | U300, U400, or V400 - wood or steel studs |

\*\* - Min 3/4 in. deep plaster rings installed over outlet box. After installation of gypsum board, nom 1/4 in. thickness of Hilti FS-ONE Sealant or FS-ONE MAX Intumescent Sealant, bearing the UL Classification Marking for Fill, Void or Cavity Materials, applied between the base layer of wallboard and the plaster ring.



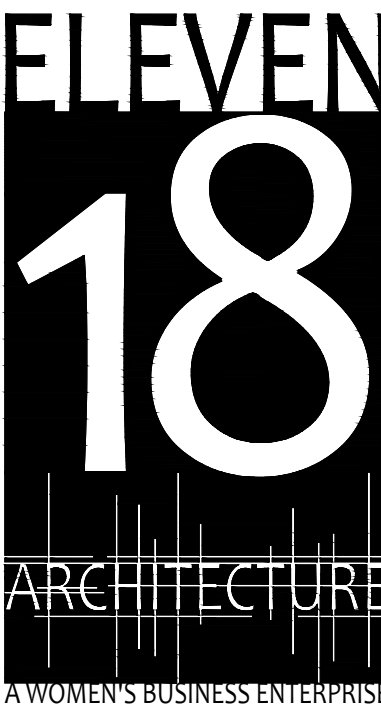
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. December 07, 2016

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MOREHEAD CITY, NC 28557  
(252) 247-7179  
LICENSE NO. C-0647



20 JANUARY, 2023

Matthew A Conte, AIA  
NC. REG.#15129



PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407-745-5301  
mcont@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Famela Friday  
Yuan Ping Lien

**REVISIONS**

| #  | DATE      | DESC.            |
|----|-----------|------------------|
| -- | --        | PERMIT SUBMITTAL |
| 1  | 1/20/2023 | REVISION 1       |
| 2  | 3/13/2023 | REVISION 2       |

**E402**  
ELECTRICAL DETAILS  
CONT.



## EQUIPMENT CONNECTION SCHEDULE

| CALLOUT | DESCRIPTION                 | SYMBOL | VOLTS          | AMPS  | MCA  | MOCP | WIRE CALLOUT             | NOTES   |
|---------|-----------------------------|--------|----------------|-------|------|------|--------------------------|---|
| AH1     | AIR HANDLER 1               |        | 208V 2P 2W     | 42.4  | 53   | 60   | 1" C, 2#4, #10G          |   |
| AH2     | AIR HANDLER 2               |        | 208V 2P 2W     | 20    | 25   | 25   | 3/4" C, 2#10, #10G       |   |
| AH3     | AIR HANDLER 3               |        | 208V 2P 2W     | 20    | 25   | 25   | 3/4" C, 2#10, #10G       |   |
| AH4     | AIR HANDLER 4               |        | 208V 2P 2W     | 20    | 25   | 25   | 3/4" C, 2#10, #10G       |   |
| AH5     | AIR HANDLER 5               |        | 208V 2P 2W     | 33.6  | 42   | 45   | 3/4" C, 2#6, #10G        |   |
| AH6     | AIR HANDLER 6               |        | 208V 2P 2W     | 32    | 40   | 40   | 3/4" C, 2#8, #10G        |   |
| AH8     | AIR HANDLER 8               |        | 208V 2P 2W     | 42.4  | 53   | 60   | 1" C, 2#4, #10G          |   |
| AH9     | AIR HANDLER 9               |        | 208V 2P 2W     | 42.4  | 53   | 60   | 1" C, 2#4, #10G          |   |
| AH10    | AIR HANDLER 10              |        | 208V 2P 2W     | 33.6  | 42   | 45   | 3/4" C, 2#6, #10G        |   |
| AH11    | AIR HANDLER 11              |        | 208V 2P 2W     | 20    | 25   | 25   | 3/4" C, 2#10, #10G       |   |
| AH12    | AIR HANDLER 12              |        | 208V 2P 2W     | 33.6  | 42   | 45   | 3/4" C, 2#6, #10G        |   |
| BDO     | BACK DOOR OPENER            |        | 120V 1P 2W     | 4.17  |      |      | 3/4" C, 1#12, #12N, #12G | PROVIDE NEMA 6-15R AT 24" AFF, COORDINATE EXACT LOCATION ADJACENT TO WALL UNIT WITH OWNER |
| CP1     | CIRCULATING PUMP            |        | 120V 1P 2W     | 3.5   |      |      | 3/4" C, 1#12, #12N, #12G |   |
| D       | CLOTHES DRYER               |        | 208/120V 2P 3W | 24.04 |      |      | 3/4" C, 2#10, #10N, #10G | PROVIDE NEMA 14-30R RECEPTACLE BEHIND UNIT AT ACCESSABLE LOCATION ABOVE UNIT HEIGHT       |
| D.F     | DRINKING FOUNTAIN           |        | 120V 1P 2W     | 12.5  |      |      | 3/4" C, 1#12, #12N, #12G |   |
| DRY     | DRYER                       |        | 208V 3P 3W     | 9.02  |      |      | 3/4" C, 3#12, #12G       | VERIFY WITH EQUIPMENT PROVIDER  |
| DW      | MEDICINE ROOM DISHWASHER    |        | 120V 1P 2W     | 8.33  |      |      | 3/4" C, 1#10, #10N, #10G |   |
| EF1     | EXHAUST FAN                 |        | 120V 1P 2W     | 1.45  |      |      | 3/4" C, 1#10, #10N, #10G |   |
| EF2     | EXHAUST FAN                 |        | 120V 1P 2W     | 3.53  |      |      | 3/4" C, 1#10, #10N, #10G |   |
| EF3     | EXHAUST FAN                 |        | 120V 1P 2W     | 3.53  |      |      | 3/4" C, 1#12, #12N, #12G |   |
| EF5     | EXHUAST FAN                 |        | 120V 1P 2W     | 5.8   |      |      | 3/4" C, 1#12, #12N, #12G |   |
| EF6     | EXHUAST FAN                 |        | 120V 1P 2W     | 5.8   |      |      | 3/4" C, 1#12, #12N, #12G |   |
| EPS     | EMERGENCY CALL POWER SUPPLY |        | 208/120V 2P 3W | 7.21  |      |      | 3/4" C, 2#10, #10N, #10G |   |
| ERV2    | ENERGY RECOVERY 2           |        | 208V 2P 2W     | 10    | 12.5 | 15   | 3/4" C, 2#10, #10G       |   |
| ERV3    | ENERGY RECOVERY 3           |        | 208V 2P 2W     | 10    | 12.5 | 15   | 3/4" C, 2#10, #10G       |   |
| ERV4    | ENERGY RECOVERY 4           |        | 208V 2P 2W     | 10    | 12.5 | 15   | 3/4" C, 2#10, #10G       |   |
| ERV6    | ENERGY RECOVERY 6           |        | 208V 2P 2W     | 10    | 12.5 | 15   | 3/4" C, 2#12, #12G       |   |
| ERV10   | ENERGY RECOVERY 10          |        | 208V 2P 2W     | 10    | 12.5 | 15   | 3/4" C, 2#12, #12G       |   |
| ERV11   | ENERGY RECOVERY 11          |        | 208V 2P 2W     | 10    | 12.5 | 15   | 3/4" C, 2#10, #10G       |   |
| ERV12   | ENERGY RECOVERY 12          |        | 208V 2P 2W     | 10    | 12.5 | 15   | 3/4" C, 2#10, #10G       |   |
| EUH1    | ELECTRIC HEATER             |        | 208V 2P 2W     | 14.42 | 18   | 20   | 3/4" C, 2#10, #10G       |   |
| EUH2    | ELECTRIC HEATER             |        | 208V 2P 2W     | 14.42 | 18   | 20   | 3/4" C, 2#10, #10G       |   |
| GR      | GENERATOR RECEPTACLE        |        | 208V 2P 2W     | 18.46 |      |      | 3/4" C, 2#10, #10G       |   |
| HP1     | HEAT PUMP 1                 |        | 208V 2P 2W     | 29.6  | 37   | 60   | 1" C, 2#4, #10G          |   |
| HP2     | HEAT PUMP 2                 |        | 208V 2P 2W     | 12    | 15   | 25   | 3/4" C, 2#10, #10G       |   |
| HP3     | HEAT PUMP 3                 |        | 208V 2P 2W     | 12    | 15   | 25   | 3/4" C, 2#10, #10G       |   |
| HP4     | HEAT PUMP 4                 |        | 208V 2P 2W     | 12    | 15   | 25   | 3/4" C, 2#10, #10G       |   |
| HP5     | HEAT PUMP 5                 |        | 208V 2P 2W     | 22.4  | 28   | 45   | 3/4" C, 2#6, #10G        |   |
| HP6     | HEAT PUMP 6                 |        | 208V 2P 2W     | 19.2  | 24   | 40   | 3/4" C, 2#10, #10G       |   |
| HP7     | HEAT PUMP 7                 |        | 208V 2P 2W     | 20    | 25   | 30   | 3/4" C, 2#10, #10G       |   |
| HP8     | HEAT PUMP 8                 |        | 208V 2P 2W     | 29.6  | 37   | 60   | 1" C, 2#4, #10G          |   |
| HP9     | HEAT PUMP 9                 |        | 208V 2P 2W     | 29.6  | 37   | 60   | 1" C, 2#4, #10G          |   |
| HP10    | HEAT PUMP 10                |        | 208V 2P 2W     | 20.8  | 26   | 40   | 3/4" C, 2#6, #10G        |   |
| HP11    | HEAT PUMP 11                |        | 208V 2P 2W     | 10.4  | 13   | 20   | 3/4" C, 2#10, #10G       |   |
| HP12    | HEAT PUMP 12                |        | 208V 2P 2W     | 20.8  | 26   | 40   | 3/4" C, 2#6, #10G        |   |
| MPS     | MAGLOCK POWER SUPPLY        |        | 120V 1P 2W     | 8.33  |      |      | 3/4" C, 1#10, #10N, #10G |   |
| PS      | PUMP STATION                |        | 208V 3P 3W     | 50.56 |      | 90   | 1-1/4" C, 3#2, #8G       |   |
| PTHP1   | PACKAGED TERMINAL HEAT PUMP |        | 208/120V 2P 3W | 10.1  | 14.1 | 15   | 3/4" C, 2#12, #12N, #12G | PROVIDE NEMA 6-15R AT 24" AFF, COORDINATE EXACT LOCATION ADJACENT TO WALL UNIT WITH OWNER |
| PTHP1   | PTHP1 - STORAGE             |        | 208V 2P 2W     | 16.27 |      |      | 3/4" C, 2#12, #12G       |   |
| REF     | SOILED ROOM REFRIGERATOR    |        | 120V 1P 2W     | 8.33  |      |      | 3/4" C, 1#10, #10N, #10G |   |
| W       | CLOTHES WASHER              |        | 120V 1P 2W     | 12.5  |      |      | 3/4" C, 1#12, #12N, #12G | PROVIDE RECEPTACLE BEHIND UNIT AT ACCESSABLE LOCATION ABOVE UNIT HEIGHT                   |
| WH1     | WATER HEATER                |        | 120V 1P 2W     | 24    |      |      | 3/4" C, 1#10, #10N, #10G |   |
| WH2     | WATER HEATER                |        | 120V 1P 2W     | 8     |      |      | 3/4" C, 1#12, #12N, #12G |   |
| WH3     | WATER HEATER                |        | 120V 1P 2W     | 8     |      |      | 3/4" C, 1#12, #12N, #12G |   |
| WLD     | WELDER - STORAGE            |        | 208V 2P 2W     | 16.27 |      |      | 3/4" C, 2#12, #12G       |   |
| WRP     | WIRELESS REPEATER           |        | 120V 1P 2W     | 4.5   |      |      | 3/4" C, 1#12, #12N, #12G |   |
| WSH     | WASHER                      |        | 208V 3P 3W     | 9.02  |      |      | 3/4" C, 3#10, #10G       | VERIFY WITH EQUIPMENT PROVIDER  |

NOTE: CONFIRM POWER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN AND PROCURRING GEAR

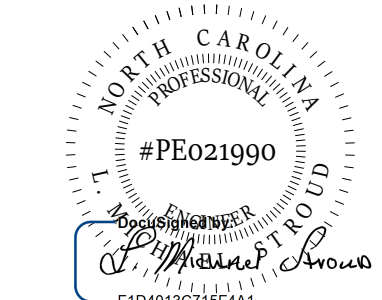
## RECEPTACLE SCHEDULE

| CALLOUT                 | SYMBOL | VOLTS      | NOTE 1  | NOTE 2  | NOTE 3   |
|-------------------------|--------|------------|---|---|--|
| DUPLEX                  |        | 120V 1P 2W | PROVIDE HUBBELL "HBL5362" OR APPROVED EQUAL                   | PROVIDE STANDARD SMOOTH THERMOPLASTIC PLATES TO MATCH DEVICE CONFIGURATION AT EACH INDOOR LOCATION                            | U.O.N. MOUNT AT 18" AFF TO CENTER, MOUNT AT 18" ABOVE THE WALKING PLATFORM IN ATTIC SPACE  |
| DUPLEX COUNTER TOP      |        | 120V 1P 2W | PROVIDE HUBBELL "HBL5362" OR APPROVED EQUAL                   | PROVIDE STANDARD SMOOTH THERMOPLASTIC PLATES TO MATCH DEVICE CONFIGURATION AT EACH INDOOR LOCATION                            | U.O.N. MOUNT AT 6" TO CENTER ABOVE COUNTER OR BACK SPLASH, OR 48" AFF IF NO COUNTER OR BACK SPLASH AVAILABLE, VERIFY ALL FINAL HEIGHTS WITH CABINET INSTALLATION AND FURNITURE LOCATIONS |
| DUPLEX GFCI             |        | 120V 1P 2W | PROVIDE HUBBELL "GF5362" OR APPROVED EQUAL                    | PROVIDE STANDARD SMOOTH THERMOPLASTIC PLATES TO MATCH DEVICE CONFIGURATION AT EACH INDOOR LOCATION                            | U.O.N. MOUNT AT 18" AFF TO CENTER  |
| DUPLEX GFCI COUNTER TOP |        | 120V 1P 2W | PROVIDE HUBBELL "GF5362" OR APPROVED EQUAL                    | PROVIDE STANDARD SMOOTH THERMOPLASTIC PLATES TO MATCH DEVICE CONFIGURATION AT EACH INDOOR LOCATION                            | U.O.N. MOUNT AT 6" TO CENTER ABOVE COUNTER OR BACK SPLASH, OR 48" AFF IF NO COUNTER OR BACK SPLASH AVAILABLE, VERIFY ALL FINAL HEIGHTS WITH CABINET INSTALLATION AND FURNITURE LOCATIONS |
| DUPLEX WP, GFCI         |        | 120V 1P 2W | PROVIDE HUBBELL "GF5362" OR APPROVED EQUAL                    | PROVIDE STANDARD SMOOTH THERMOPLASTIC PLATES TO MATCH DEVICE CONFIGURATION AT EACH INDOOR LOCATION AND PROVIDE "IN USE" COVER | U.O.N. MOUNT AT 18" AFF TO CENTER  |
| QUADRAPLEX COUNTER TOP  |        | 120V 1P 2W | PROVIDE (2) HUBBELL "HBL5362" OR APPROVED EQUAL               | PROVIDE STANDARD SMOOTH THERMOPLASTIC PLATES TO MATCH DEVICE CONFIGURATION AT EACH INDOOR LOCATION                            | U.O.N. MOUNT AT 6" TO CENTER ABOVE COUNTER OR BACK SPLASH, OR 48" AFF IF NO COUNTER OR BACK SPLASH AVAILABLE   |
| SPECIAL                 |        | 120V 1P 2W | NEMA CONFIGURATION AS SHOWN ON DRAWING OR ADDITIONAL SCHEDULE |   | MOUNT AT HEIGHT INDICATED ON DRAWING OR ADDITIONAL SCHEDULE  |
| SURGE SUPPRESSION       |        | 120V 1P 2W | PROVIDE HUBBELL "5362SA" OR APPROVED EQUAL                    | PROVIDE STANDARD SMOOTH THERMOPLASTIC PLATES TO MATCH DEVICE CONFIGURATION AT EACH INDOOR LOCATION                            | U.O.N. MOUNT AT 48" AFF TO CENTER  |

COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.

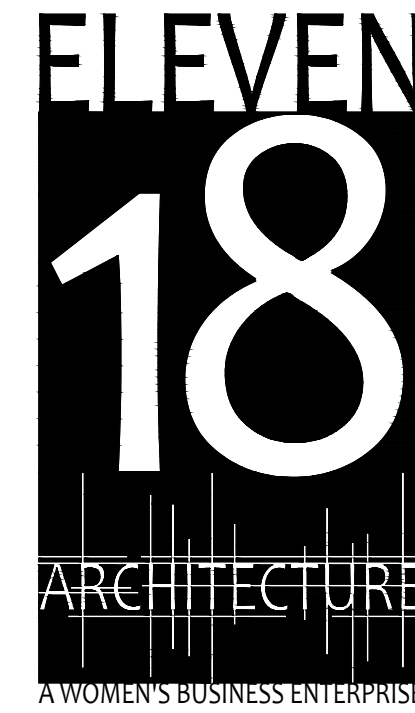
**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MOKREHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647

**L. MICHAEL STROUD, P.E.**



**20 JANUARY, 2023**

Matthew A. Conte, AIA  
NC. REG. #15129



NC License #1919  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32805  
www.eleven18architecture.com  
Physical Address:  
3011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.255.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
**MATTHEW A. CONTE**  
407-745-5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**E501**  
ELECTRICAL SCHEDULES



| LUMINAIRE SCHEDULE |        |   |          |  |             |       |            |   |   |  |
|--------------------|--------|---|----------|--|-------------|-------|------------|---|---|--|
| CALLOUT            | SYMBOL | DESCRIPTION   | MOUNTING | MODEL  | INPUT WATTS | COLOR | VOLTS      | NOTE 1  | NOTE 2  |  |
| A                  |        | 2x2 EDGELIT LED PANEL LIGHT WITH OPTIONAL SURFACE MOUNTING KIT FOR SURFACE MOUNTING ON GYPSUM CEILING, >80CRI   | CEILING  | RAB LIGHTING – E2PAN2X2-40N/D10 4000K  | 40          | 4000K | 120V 1P 2W | PROVIDE CEILING JUNCTION BOX AT EACH FIXTURE LOCATION WITH FLEXIBLE CONNECTION TO LIGHT UNIT                                |   |  |
| A1                 |        | 1x4 EDGELIT LED PANEL LIGHT WITH OPTIONAL SURFACE MOUNTING KIT FOR SURFACE MOUNTING ON GYPSUM CEILING, >80CRI   | CEILING  | RAB LIGHTING – E2PAN1X4-40N/D10 4000K  | 40          | 4000K | 120V 1P 2W | PROVIDE CEILING JUNCTION BOX AT EACH FIXTURE LOCATION WITH FLEXIBLE CONNECTION TO LIGHT UNIT                                |   |  |
| A2                 |        | 2x4 EDGELIT LED PANEL LIGHT WITH OPTIONAL SURFACE MOUNTING KIT FOR SURFACE MOUNTING ON GYPSUM CEILING, >80CRI   | CEILING  | RAB LIGHTING – E2PAN2X4-40N/D10 4000K  | 40          | 4000K | 120V 1P 2W | PROVIDE CEILING JUNCTION BOX AT EACH FIXTURE LOCATION WITH FLEXIBLE CONNECTION TO LIGHT UNIT                                |   |  |
| B                  |        | 9" ROUND LED FLUSH MOUNTED LIGHT WITH 108 DEGREE ANGLE BEAM, GLASS LENS, WHITE ALUMINUM FRAME   | CEILING  | SATCO/NUVO – S29690 4000K  | 18.5        | 4000K | 120V 1P 2W | PROVIDE CEILING JUNCTION BOX AT EACH FIXTURE LOCATION FOR CONNECTION TO LIGHT   |   |  |
| B1                 |        | 15" ROUND LED FLUSH MOUNTED, WHITE ALUMINUM FRAME   | CEILING  | SATCO/NUVO – 62-1291 4000K   | 26          | 4000K | 120V 1P 2W | PROVIDE CEILING JUNCTION BOX AT EACH FIXTURE LOCATION FOR CONNECTION TO LIGHT   |   |  |
| C1                 |        | ADJUSTABLE SUSPENDED DRUM FIXTURE, TWO TIERED 36" W, 12" DP   | CEILING  | LUMENANT LIGHTING – CUSTOM MANUFACTURED FOR COLOR MATCHING, SIZE, KELVEN, AND MOUNTING 4000K   | 64          | 4000K | 120V 1P 2W | PROVIDE CEILING BOX WITH ADDITIONAL SUPPORT TO CEILING ABOVE AT BOX FOR CONNECTION TO LIGHT UNIT                            |   |  |
| C2                 |        | FLUSH MOUNTED 24" DRUM FIXTURE, 4.5" DP   | CEILING  | LUMENANT LIGHTING – CUSTOM MANUFACTURED FOR COLOR MATCHING, SIZE, KELVEN, AND MOUNTING 4000K   | 40          | 4000K | 120V 1P 2W | PROVIDE CEILING BOX WITH ADDITIONAL SUPPORT TO CEILING ABOVE AT BOX FOR CONNECTION TO LIGHT UNIT                            | PROVIDE CEILING JUNCTION BOX AT EACH FIXTURE LOCATION FOR CONNECTION TO LIGHT                                   |  |
| C3                 |        | LED CANOPY SURFACE MOUNT SUITABLE FOR WET LOCATIONS, FLAT LENS, WHITE FINISH  | CEILING  | RAB LIGHTING – VANLED20FW/PCS 5000K  | 20          | 5000K | 120V 1P 2W | EXTERIOR FIXTURE TO BE CONTROLLED THROUGH EXTERIOR PHOTOEYE AND CONTACT SWITCHING   | PROVIDE CEILING JUNCTION BOX AT EACH FIXTURE LOCATION FOR CONNECTION TO LIGHT                                   |  |
| C4                 |        | LED CEILING MOUNTED EXTERIOR RATED CEILING FAN AND LIGHT  | CEILING  | PROGRESS LIGHTING – AIRPRO 52" WITH FINISH AND BLADE COLOR SELECTED BY OWNER, PROVIDE P2612-01WB FAN LIGHT KIT IN SIMILAR FINISH 5000K | 20          | 5000K | 120V 1P 2W | PROVIDE CEILING JUNCTION BOX AT EACH FIXTURE LOCATION FOR CONNECTION TO LIGHT   | VERIFY SWITCHING DESIRED BY OWNER AND PROVIDE MANUFACTURER RECOMMENDED CONTROLS, MOUNT AT 80" AFF MINIMUM       |  |
| D                  |        | RESIDENT ROOM NIGHT LIGHT   | WALL     | RADIANT – NTLFULLW 3000K   | 3           | 3000K | 120V 1P 2W | MOUNT IN RECESSED SINGLE GANG 12" AFF BOX, CIRCUIT UNSWITCHED TO CIRCUIT SERVING AREA                                       |   |  |
| ELP                |        | LOW PROFILE LED EMERGENCY LIGHT WITH INJECTION MOLDED WHITE PLASTIC HOUSING   | WALL     | COMPASS LIGHTING – CU2   | 1           |       | 120V 1P 2W | DIMENSIONS OF UNIT: 9" W, 4" H, 2.75" DP  | LOCATE WHERE SHOWN ON DRAWINGS AND AS COORDINATED WITH ARCHITECT ELVATIONS AND BUILDING FINISHES                |  |
| ELPW               |        | SEALED OPTIC LED EXTERIOR EMERGENCY LIGHT, FULLY ADJUSTABLE DUAL HEADS, PUSH-TO-TEST SWITCH, AC ON INDICATOR, WET LOCATION AND LOW TEMPERATURE (0 DEGREE F) RATED   | WALL     | UTOPIA LIGHTING – WCEM-2-XX-HTR COLOR SELECTED BY OWNER/ARCHITECT  | 2           |       | 120V 1P 2W | DIMENSIONS OF UNIT: 14.9" W, 5.7" H, 4.2" DP  | LOCATE WHERE SHOWN ON DRAWINGS AND AS COORDINATED WITH ARCHITECT ELVATIONS AND BUILDING FINISHES.               |  |
| EXC                |        | LED COMBINATION EXIT/EMERGENCY LIGHT, FULLY ADJUSTABLE DUAL HEADS, PUSH-TO-TEST SWITCH, AND AC-ON INDICATOR, HOUSING AND LETTERING COLOR AS VERIFIED WITH OWNER, PROVIDE SINGLE UNITS U.O.N. SHOWN ON DRAWING | WALL     | COMPASS LIGHTING – CCRG OR APPROVED EQUAL, VERIFY LETTERING COLOR REQUIREMENTS WITH OWNER PRIOR TO ORDERING                            | 3.9         |       | 120V 1P 2W | DIMENSIONS OF UNIT: 18" W, 7.2" H, 4.3" DP  | LOCATE WHERE SHOWN ON DRAWINGS AND AS COORDINATED WITH ARCHITECT ELVATIONS AND BUILDING FINISHES                |  |
| EXCW               |        | LED COMBINATION EXIT/EMERGENCY LIGHT, FULLY ADJUSTABLE LAMP HEADS, PUSH-TO-TEST SWITCH, AND AC-ON INDICATOR, PROVIDE SINGLE FACED UNITS U.O.N. ON DRAWINGS, COLD TEMP (-20 C) OPTION                          | WALL     | COMPASS LIGHTING – CWCIRW-CT OR APPROVED EQUAL, VERIFY LETTERING COLOR REQUIREMENTS WITH OWNER PRIOR TO ORDERING                       | 5.3         |       | 120V 1P 2W | DIMENSIONS OF UNIT: 12.4" W, 13.65" H, 5.91" DP   | LOCATE WHERE SHOWN ON DRAWINGS AND AS COORDINATED WITH ARCHITECT ELVATIONS AND BUILDING FINISHES                |  |
| F                  |        | KEYLESS FIXTURE   | CEILING  | EATON – S1174W-SP W/ LED LAMP 100W INCANDESCENT EQUIVALENT   | 9.5         |       | 120V 1P 2W | LOCATE SWITCHES ON WALKWAY TO PROVIDE HEAD ROOM AND TO PROVIDE MAXIMUM ILLUMINATION AFTER ALL EQUIPMENT IS INSTALLED        |   |  |
| L1                 |        | LED FREE-STANDING BOLLARD   | OUTDOOR  | RAB LIGHTING – BDLEDRI8K 5000K   | 25          | 5000K | 120V 1P 2W | PROVIDE CONCRETE PAD AND ANCHOR BOLTS, PROVIDE INSTALLATION PER MANUFACTURER  |   |  |
| P1                 |        | LED MINI PENDENT, BRUSH NICKEL FINISH, 8" GLASS GLOVE, 90CRI  | PENDANT  | KICHLER – LEXI 1 4000K   | 5           | 4000K | 120V 1P 2W | MOUNT AT LOCATION SHOWN ON DRAWING WITH HEIGHT AFF AS SHOWN ON ARCHITECTURAL DETAIL, OR COORDINATED IN FIELD WITH ARCHITECT |   |  |
| S1                 |        | LED WALL MOUNTED SQUARE VANITY 24" STRIP UNIT, BRUSHED NICKEL FINISH, ACRYLIC DIFFUSER LISTED FOR DAMP LOCATIONS, ADJUSTABLE COLOR AT FIXTURE, 90CRI  | WALL     | LITHONIA LIGHTING – FMVCS3S 24IN MVOLT 30K 35K 40K 90CRI BN 3000K  | 27          | 3000K | 120V 1P 2W | MOUNT OVER MIRROR AS SHOWN ON ARCHITECT DETAILS AND VERIFIED IN FIELD WITH OWNER  |   |  |
| S2                 |        | LED SWING ARM FIXTURE   | WALL     | WAC LIGHTING – PL-11017-XX-14, FINISH AS SELECTED BY OWNER 3000K   | 14          | 3000K | 120V 1P 2W | MOUNT ABOVE 80" AFF TO ANY PART OF FIXTURE  |   |  |
| W1                 |        | LED EXTERIOR CANDELABRA BRASS SCENCE  | WALL     | QUOIZEL – NY8317Z 5000K  | 60          | 5000K | 120V 1P 2W | MOUNT ON PORTE-COCHERE ENTRANCE COLUMNS AS SHOWN ON ARCHITECTURAL ELEVATION DRAWINGS  |   |  |
| W2                 |        | EXTERIOR GENERAL AREA LIGHT   | WALL     | RAB LIGHTING – BRISKM48L 5000K   | 32          | 5000K | 120V 1P 2W | EXTERIOR FIXTURE TO BE CONTROLLED THROUGH EXTERIOR PHOTOEYE AND LIGHTING CONTACTOR SWITCHING                                | MOUNT ABOVE WINDOW HEIGHT AT LOCATIONS AND HEIGHT COORDINATED WITH ARCHITECT                                    |  |
| X                  |        | LED EMERGENCY EXIT SIGN, HOUSING AND LETTER COLOR AS VERIFIED WITH OWNER, UNIVERSAL SINGLE OR DOUBLE FACE, DAMP LOCATION RATED  | CEILING  | COMPASS LIGHTING – CERG OR APPROVED EQUAL, VERIFY COLOR REQUIREMENTS WITH OWNER PRIOR TO ORDERING                                      | 3.4         |       | 120V 1P 2W | LOCATE AT LOCATIONS AS SHOWN ON DRAWINGS AND AS COORDINATED WITH ARCHITECT ELEVATION, RCP AND LIFE SAFETY PLANS             | MOUNT DIRECTLY ON CEILING TILE, PROVIDE ADDITIONAL SUPPORT ABOVE CEILING, TO SUPPORT WEIGHT OFF UPPER STRUCTURE |  |

| SWITCH SCHEDULE     |        |  |  |  |
|---------------------|--------|--|--|--|
| CALLOUT             | SYMBOL | NOTE 1   | NOTE 2   | NOTE 3                                   |
| SPRING WOUND SWITCH |        | 12 HR SPRING WOUND SPST SWITCH WITH HOLD FEATURE   | INTERMATIC FF12 HH OR APPROVED EQUAL   |  |
| FOURWAY SWITCH      |        | HUBBELL 1224 OR APPROVED EQUAL IN ARCHITECT APPROVED COLOR.  | MOUNT AT 48" AFF U.O.N.  |  |
| OC                  |        | DETECTOR OF DESIGN IS A SENSOR SWITCH "CMR PDT 9" OR APPROVED EQUAL, PROVIDE WITH ARCHITECT APPROVED COLOR | MOUNT IN CEILING IN RECESSED BOX, PROVIDE QUANTITIES AND LOCATION TO PROVIDE COVERAGE FOR DETECTOR SHOWN | INSTALL PER MANUFACTURER RECOMMENDATIONS |
| SINGLE POLE SWITCH  |        | HUBBELL 1221 OR APPROVED EQUAL IN ARCHITECT APPROVED COLOR   | MOUNT AT 48" AFF U.O.N.  |  |
| THREEWAY SWITCH     |        | HUBBELL 1223 OR APPROVED EQUAL IN ARCHITECT APPROVED COLOR   | MOUNT AT 48" AFF U.O.N.  |  |
| WALL OC             |        | 20 AMP RATED WALL MOUNTED OCCUPANCY SENSOR MOUNT AT 48" U.O.N.   | PROVIDE "WATTSTOPPER" "DSW-100" OR APPROVED EQUAL  | PROVIDE IN ARCHITECT APPROVED COLOR      |

| COMMUNICATION SCHEDULE  |        |   |   |        |
|-------------------------|--------|---|---|--------|
| CALLOUT                 | SYMBOL | NOTE 1  | NOTE 2  | NOTE 3 |
| DATA OUTLET             |        | PROVIDE 4X4 DEEP BOX WITH 2 GANG MUD RING AND 1" CONDUIT TO ABOVE CEILING | U.O.N. MOUNT AT 18" AFF TO CENTER                         |        |
| DATA OUTLET COUNTER TOP |        | PROVIDE 4X4 DEEP BOX WITH 2 GANG MUD RING AND 1" CONDUIT TO ABOVE CEILING | U.O.N. MOUNT AT 6" TO CENTER ABOVE COUNTER OR BACK SPLASH |        |
| TV                      |        | PROVIDE 4X4 DEEP BOX WITH 2 GANG MUD RING AND 1" CONDUIT TO ABOVE CEILING | U.O.N. MOUNT AT 60" AFF TO CENTER                         |        |

COPYRIGHT STATEMENT

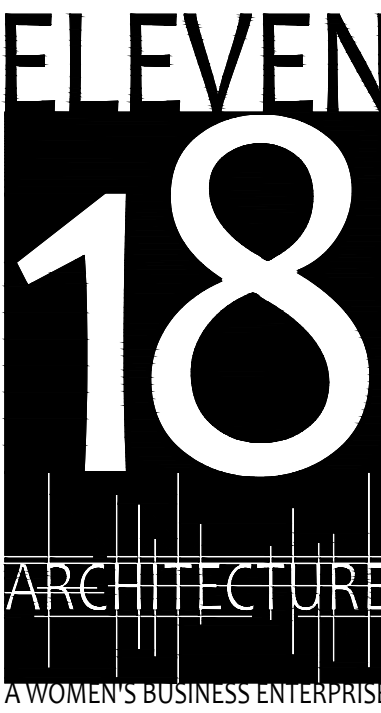
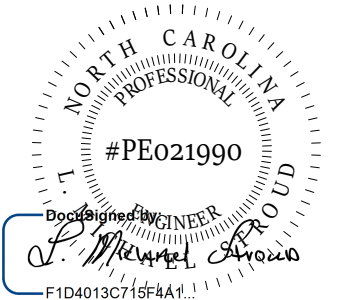
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRISVILLE, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647

**L. MICHAEL STROUD, P.E.**

20 JANUARY, 2023

Matthew A Conte, AIA  
NC. REG.#15129



NC License: 9199  
Mailing Address:  
424 E. Central Blvd. #542  
Orlando, FL 32805  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr. #307  
Orlando, FL 32805  
407.255.5200  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407-745-5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |



| PANEL SCHEDULE |                   |                 |          |                      |                      |          |              |                 |  |   |  |
|----------------|-------------------|-----------------|----------|----------------------|----------------------|----------|--------------|-----------------|--|---|--|
| CALLOUT        | LOCATION          | VOLTS           | BUS AMPS | MAIN DISCONNECT TYPE | MAIN DISCONNECT AMPS | MOUNTING | UPSTREAM OCP | UPSTREAM DEVICE | COPPER WIRE CALLOUT                    | ALT. ALUMINUM WIRE CALLOUT                        |  |
| GPB1           | STORAGE 193       | 208Y/120V 3P 4W | 225      | MLO                  |                      | SURFACE  | 200          | GPDP            | 2°C, 3#3/0, #3/ON, #6G                 | 2-1/2°C, (3)#250KCMIL AL, #250KCMIL AL N, #4 AL G |  |
| GPD1           | STORAGE 155       | 208Y/120V 3P 4W | 225      | MLO                  |                      | SURFACE  | 200          | GPDP            | 2°C, 3#3/0, #3/ON, #6G                 | 2-1/2°C, (3)#250KCMIL AL, #250KCMIL AL N, #4 AL G |  |
| GPDP           | ELECTRICAL 169    | 208Y/120V 3P 4W | 800      | MLO                  |                      | SURFACE  | 800          | ATS             | (3)3°C, 3#300KCMIL, #300KCMIL N, #1/0G | 3°C, (3)#400KCMIL AL, #400KCMIL AL N, #3/0 AL G   |  |
| K              | SERVERY 159       | 208Y/120V 3P 4W | 225      | MLO                  |                      | FLUSH    | 200          | MSB             | 2°C, 3#3/0, #3/ON, #6G                 | 2-1/2°C, (3)#250KCMIL AL, #250KCMIL AL N, #4 AL G |  |
| LPA1           | STORAGE 193       | 208Y/120V 3P 4W | 225      | MLO                  |                      | SURFACE  | 200          | MSB             | 2°C, 3#3/0, #3/ON, #6G                 | 2-1/2°C, (3)#250KCMIL AL, #250KCMIL AL N, #4 AL G |  |
| LPA2           | STORAGE 193       | 208Y/120V 3P 4W | 225      | MLO                  |                      | SURFACE  | 200          | MSB             | 2°C, 3#3/0, #3/ON, #6G                 | 2-1/2°C, (3)#250KCMIL AL, #250KCMIL AL N, #4 AL G |  |
| LPB1           | TEL. ELECTRIC 109 | 208Y/120V 3P 4W | 225      | MLO                  |                      | SURFACE  | 200          | MSB             | 2°C, 3#3/0, #3/ON, #6G                 | 2-1/2°C, (3)#250KCMIL AL, #250KCMIL AL N, #4 AL G |  |
| LPB2           | TEL. ELECTRIC 109 | 208Y/120V 3P 4W | 225      | MLO                  |                      | SURFACE  | 200          | MSB             | 2°C, 3#3/0, #3/ON, #6G                 | 2-1/2°C, (3)#250KCMIL AL, #250KCMIL AL N, #4 AL G |  |
| LPC1           | ELECTRICAL 169    | 208Y/120V 3P 4W | 225      | MLO                  |                      | SURFACE  | 200          | MSB             | 2°C, 3#3/0, #3/ON, #6G                 | 2-1/2°C, (3)#250KCMIL AL, #250KCMIL AL N, #4 AL G |  |
| LPC2           | ELECTRICAL 169    | 208Y/120V 3P 4W | 225      | MLO                  |                      | SURFACE  | 200          | MSB             | 2°C, 3#3/0, #3/ON, #6G                 | 2-1/2°C, (3)#250KCMIL AL, #250KCMIL AL N, #4 AL G |  |
| LPD1           | STORAGE 155       | 208Y/120V 3P 4W | 225      | MLO                  |                      | SURFACE  | 200          | MSB             | 2°C, 3#3/0, #3/ON, #6G                 | 2-1/2°C, (3)#250KCMIL AL, #250KCMIL AL N, #4 AL G |  |
| LPD2           | STORAGE 155       | 208Y/120V 3P 4W | 225      | MLO                  |                      | SURFACE  | 200          | MSB             | 2°C, 3#3/0, #3/ON, #6G                 | 2-1/2°C, (3)#250KCMIL AL, #250KCMIL AL N, #4 AL G |  |
| LPD3           | STORAGE 155       | 208Y/120V 3P 4W | 225      | MLO                  |                      | SURFACE  | 200          | MSB             | 2°C, 3#3/0, #3/ON, #6G                 | 2-1/2°C, (3)#250KCMIL AL, #250KCMIL AL N, #4 AL G |  |
| PPM1           | ELECTRICAL 169    | 208Y/120V 3P 4W | 225      | MLO                  |                      | SURFACE  | 225          | GPDP            | 2-1/2°C, 3#4/0, #4/ON, #4G             | 2-1/2°C, (3)#250KCMIL AL, #250KCMIL AL N, #4 AL G |  |
| PPMB           | STORAGE 193       | 208Y/120V 3P 4W | 225      | MLO                  |                      | SURFACE  | 225          | GPDP            | 2-1/2°C, 3#4/0, #4/ON, #4G             | 2-1/2°C, (3)#250KCMIL AL, #250KCMIL AL N, #4 AL G |  |
| SB             | STORAGE BUILDING  | 208Y/120V 3P 4W | 100      | BREAKER              | 100                  | SURFACE  | 100          | MSB             | 1-1/2°C, 3#1, #1N, #8G                 | 1-1/2°C, (3)#1 AL, #1 AL N, #6 AL G               |  |

| SWITCHBOARD SCHEDULE |                    |                |                 |          |                      |                      |          |              |                 |                                 |   |
|----------------------|--------------------|----------------|-----------------|----------|----------------------|----------------------|----------|--------------|-----------------|---------------------------------|---|
| CALLOUT              | DESCRIPTION        | LOCATION       | VOLTS           | BUS AMPS | MAIN DISCONNECT TYPE | MAIN DISCONNECT AMPS | MOUNTING | UPSTREAM OCP | UPSTREAM DEVICE | WIRE CALLOUT                    | ALT. ALUMINUM WIRE CALLOUT                            |
| MSB                  | MAIN SERVICE BOARD | ELECTRICAL 169 | 208Y/120V 3P 4W | 2000     | FUSED SWITCH         | 2000                 | FLOOR    | 2000         | UTILITY         | (5)4°C, 3#600KCMIL, #600KCMIL N | (5)4°C, (3)#750KCMIL AL, #750KCMIL AL N, (2) 4" SPARE |

| GENERATOR SCHEDULE |                 |     |     |              |   |   |  |
|--------------------|-----------------|-----|-----|--------------|---|---|--|
| CALLOUT            | VOLTS           | KVA | KW  | POWER FACTOR | NOTE 1  | NOTE 2  | NOTE 3   |
| GENSET             | 208Y/120V 3P 4W | 313 | 250 | 0.7987       | GENERATOR OF DESIGN IS A KOHLER 250RE0ZJE WITH A 4UA10 ALTERNATOR, PROVIDE A CONNECTION FOR A REMOTE START/STOP STATION AND A REMOTE ANNUNCIATOR AT A LOCATION COORDINATED WITH OWNER | PROVIDE A SUB-BASE TANK MOUNTED GENERATOR ENCLOSURE (ALUMINUM OR STEEL) PER OWNER, PROVIDE ENGINEER DESIGNED CONCRETE PAD | PROVIDE A PLATFORM ASSEMBLY ON BOTH SIDES OF GENERATOR LENGTH WITH STAIRS 42" HIGH |

| TRANSFER SWITCH SCHEDULE |           |                 |      |                        |                           |                                   |  |
|--------------------------|-----------|-----------------|------|------------------------|---------------------------|-----------------------------------|--|
| CALLOUT                  | TYPE      | VOLTS           | AMPS | NORMAL UPSTREAM DEVICE | EMERGENCY UPSTREAM DEVICE | NOTE 1                            | NOTE 2                                   |
| ATS                      | AUTOMATIC | 208Y/120V 3P 4W | 800  | MSB                    | GENSET                    | PROVIDE PAD FOR FLOOR MOUNTED ATS | ATS OF DESIGN IS A KOHLER KSS-ACTA-D800S |

| KITCHEN EQUIPMENT SCHEDULE |                             |        |            |      |               |      |      |                        |               |   |  |
|----------------------------|-----------------------------|--------|------------|------|---------------|------|------|------------------------|---------------|---|--|
| CALLOUT                    | DESCRIPTION                 | SYMBOL | VOLTS      | AMPS | CIRCUIT       | MCA  | MOCP | WIRE CALLOUT           | RECP. CONFIG. | NOTES   |  |
| CCU                        | #102 COOLER CONDENSOR UNIT  | ☉☒     | 208V 3P 3W | 12.3 | PPM1-9,11,13  | 12.3 | 20   | 3/4°C,3#12, #12G       |               | PROVIDE CONNECTION TO UNIT WITH ADDITIONAL CONTROL WIRES TO ASSOCIATED EVAPORATOR AS SHOWN ON E210  |  |
| CEU                        | #102.1 COOLER EVAPORATOR    | ☉☒     | 120V 1P 2W | 16   | PPM1-15       | 15   | 20   | 3/4°C,1#12, #12N, #12G |               | PROVIDE WEATHERPROOF DISCONNECT WITH FLEXIBLE CONNECTION THROUGH TO ASSOCIATED UNIT, VERIFY EXACT LOCATION WITH EQUIPMENT PROVIDER  |  |
| CT                         | #403 CONVEYOR TOASTER       | ☉☒     | 120V 1P 2W | 13.3 | K-6           |      |      | 3/4°C,1#12, #12N, #12G | 5-20R         | PROVIDE COUNTER GFCI RECEPTACLE AT LOCATION COORDINATED WITH EQUIPMENT PROVIDER AND OWNER   |  |
| DW                         | #216 DISHWASHER             | ☉☒     | 120V 1P 2W | 16   | K-5           |      |      | 3/4°C,1#12, #12N, #12G |               | PROVIDE FLEXIBLE WATERTIGHT CONNECTION THROUGH A NEMA 3R DISCONNECT ON WALL ABOVE HEIGHT OF UNIT OR AS COORDINATED WITH EQUIPMENT PROVIDER, PROVIDE GFCI PROTECTED BREAKER IN PANEL |  |
| FCU                        | #103 FREEZER CONDENSOR UNIT | ☉☒     | 208V 3P 3W | 15   | PPM1-17,19,21 | 15   | 20   | 3/4°C,3#12, #12G       |               | PROVIDE CONNECTION TO UNIT WITH ADDITIONAL CONTROL WIRES TO ASSOCIATED EVAPORATOR AS SHOWN ON E210  |  |
| FEU                        | #103.1 FREEZER EVAPORATOR   | ☉☒     | 208V 2P 2W | 20   | PPM1-23,25    | 15   | 20   | 3/4°C,2#12, #12G       |               | PROVIDE WEATHERPROOF DISCONNECT WITH FLEXIBLE CONNECTION THROUGH TO ASSOCIATED UNIT, VERIFY EXACT LOCATION WITH EQUIPMENT PROVIDER  |  |
| FP                         | #401 FOOD PROCESSOR         | ☉☒     | 120V 1P 2W | 7    | K-2           |      |      | 3/4°C,1#12, #12N, #12G | 5-20R         | PROVIDE COUNTER GFCI RECEPTACLE AT LOCATION COORDINATED WITH EQUIPMENT PROVIDER AND OWNER   |  |
| FRZ A/S                    | FREEZER DRAIN ANTISWEATS    | ☉      | 120V 1P 2W | 0.83 | PPM1-27       |      |      | 3/4°C,1#12, #12N, #12G |               | PROVIDE WEATHERPROOF DISCONNECT WITH FLEXIBLE CONNECTION THROUGH TO ASSOCIATED UNIT, VERIFY EXACT LOCATION WITH EQUIPMENT PROVIDER  |  |
| HC                         | #305 HEAT LAMP TABLE MOUNT  | ☉      | 120V 1P 2W | 8.3  | K-9           |      |      | 3/4°C,1#12, #12N, #12G |               | PROVIDE GFCI PROTECTION UNDER COUNTER AT MANUFACTURER COORDINATED LOCATION  |  |
| HFT                        | #202 HOT FOOD TABLE         | ☉      | 208V 2P 2W | 13.3 | K-1,3         |      |      | 3/4°C,2#12, #12G       | 6-20R         | PROVIDE RECEPTACLE AT FLOOR BOX UNDER UNIT AT LOCATION COORDINATED WITH EQUIPMENT PROVIDER, PROVIDE GFCI PROTECTION BREAKER AT PANEL  |  |
| HFW                        | #306 DROP IN HOT FOOD WELL  | ☉      | 208V 2P 2W | 12.5 | K-11,13       |      |      | 3/4°C,2#12, #12G       | 6-20R         | PROVIDE CONNECTION UNDER COUNTER TO LOCATION COORDINATED WITH EQUIPMENT PROVIDER AND OWNER, PROVIDE GFCI PROTECTED BREAKER IN PANEL   |  |
| HL                         | #221 HEAT LAMPS             | ☉      | 120V 1P 2W | 6.25 | K-7           |      |      | 3/4°C,1#12, #12N, #12G | 5-20R         | PROVIDE ADDITIONAL SUPPORT OF (3) JUNCTION BOXES IN CEILING PER NEC 314.23F, PROVIDE GFCI PROTECTED BREAKER IN PANEL  |  |
| ICE                        | #212 ICE MAKER              | ☉      | 120V 1P 2W | 8.4  | GPDP-39       |      |      | 3/4°C,1#12, #12N, #12G | 5-20R         | PROVIDE RECEPTACLE ON WALL AT HEIGHT COORDINATED WITH EQUIPMENT PROVIDER AND OWNER, PROVIDE GFCI PROTECTED BREAKER IN PANEL   |  |
| KEF                        | #1 KITCHEN HOOD EXHAUST FAN | ☉      | 208V 3P 3W | 2.6  | GPDP-25,27,29 | 3.25 | 20   | 3/4°C,3#12, #12G       |               | PROVIDE CONNECTION TO KITCHEN HOOD CONTROL COMPLETE THROUGH TO ROOF EXHAUST FAN AS COORDINATED WITH EQUIPMENT PROVIDER  |  |
| KHC                        | #1 KITCHEN HOOD CONTROL     | ☉      | 120V 1P 2W | 0.1  | GPDP-37       |      |      | 3/4°C,1#12, #12N, #12G |               | PROVIDE CIRCUIT TO KITCHEN HOOD CONTROL PANEL FOR CONTROL, COORDINATE WITH EQUIPMENT PROVIDER CONNECTION REQUIREMENTS   |  |
| KMA                        | #1 KITCHEN MAKE-UP AIR FAN  | ☉      | 208V 3P 3W | 3.69 | GPDP-31,33,35 | 3.25 | 20   | 3/4°C,3#12, #12G       |               | PROVIDE CONNECTION TO KITCHEN HOOD CONTROL COMPLETE THROUGH TO ROOF MAKE-UP AIR AS COORDINATED WITH EQUIPMENT PROVIDER  |  |
| MIX                        | #402 PLANETARY MIXER        | ☉☒     | 120V 1P 2W | 4.1  | K-4           |      |      | 3/4°C,1#12, #12N, #12G | 5-20R         | PROVIDE COUNTER GFCI RECEPTACLE AT LOCATION COORDINATED WITH EQUIPMENT PROVIDER AND OWNER   |  |
| MO                         | #404 MICROWAVE OVEN         | ☉☒     | 120V 1P 2W | 14   | K-8           |      |      | 3/4°C,1#12, #12N, #12G | 5-20R         | PROVIDE COUNTER GFCI RECEPTACLE AT LOCATION COORDINATED WITH EQUIPMENT PROVIDER AND OWNER   |  |
| PSP                        | #406 PANINI SANDWICH PRESS  | ☉☒     | 120V 1P 2W | 15   | K-10          |      |      | 3/4°C,1#12, #12N, #12G | 5-20R         | PROVIDE COUNTER GFCI RECEPTACLE AT LOCATION COORDINATED WITH EQUIPMENT PROVIDER AND OWNER   |  |
| REF                        | #215 REACH-IN FRIDGE        | ☉☒     | 120V 1P 2W | 15   | GPDP-41       |      |      | 3/4°C,1#12, #12N, #12G | 5-20R         | PROVIDE RECEPTACLE ON WALL AT HEIGHT COORDINATED WITH EQUIPMENT PROVIDER AND OWNER, PROVIDE GFCI PROTECTED BREAKER IN PANEL   |  |
| SSP                        | #222 SANDWICH/SALAD PREP    | ☉☒     | 120V 1P 2W | 3    | GPDP-43       |      |      | 3/4°C,1#12, #12N, #12G | 5-20R         | PROVIDE RECEPTACLE AT FLOOR BOX LOCATION UNDER UNIT AT LOCATION COORDINATED WITH EQUIPMENT PROVIDER, PROVIDE GFCI PROTECTION BREAKER AT PANEL                                       |  |
| WM                         | #407 WAFFLE MAKER           | ☉☒     | 120V 1P 2W | 20   | K-12          |      |      | 3/4°C,1#12, #12N, #12G |               | PROVIDE RECEPTACLE MOUNTED ON BACKWALL AT 6" AFF OR AS COORDINATED WITH EQUIPMENT PROVIDER AND OWNER  |  |

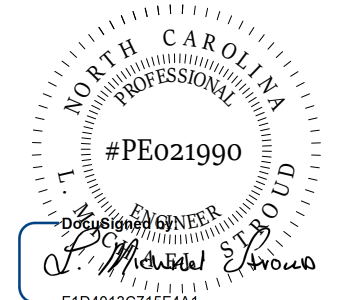
NOTE: CONFIRM POWER REQUIREMENTS WITH ACTUAL EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN AND PROCURING GEAR

COPYRIGHT STATEMENT

These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by law.

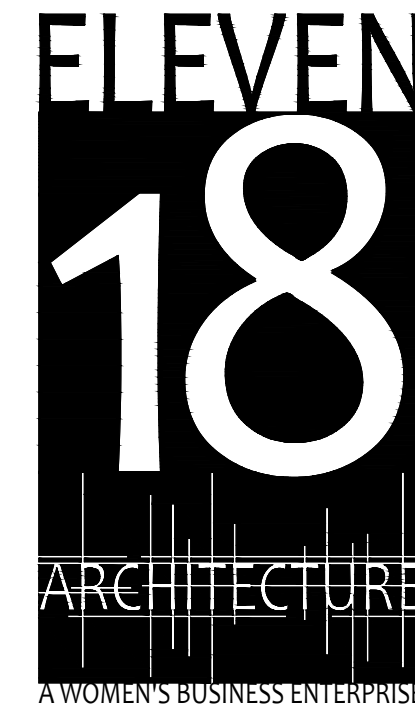
**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MOKREHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647

**L. MICHAEL STROUD, P.E.**



**20 JANUARY, 2023**

Matthew A Conte, AIA  
NC. REG.#15129



NC License: 1919  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.265.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
**MATTHEW A. CONTE**  
407.745.5301  
mcont@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

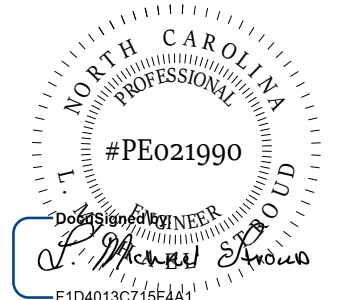
| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

**E503**  
DISTRIBUTION  
EQUIPMENT SCHEDULE



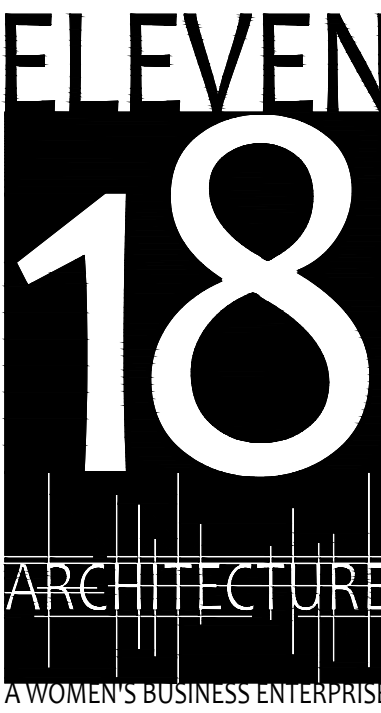
Copyright Statement  
 These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.

**STROUD ENGINEERING, P.A.**  
 422 HWY 24  
 MOREHEAD CITY, NC 28557  
 LICENSE NO. C-0647



20 JANUARY, 2023

Matthew A Conte, AIA  
 NC REG.#15129



NC License #1919  
 Mailing Address:  
 424 E. Central Blvd. #542  
 Orlando, FL 32803  
 www.eleven18architecture.com  
 Physical Address:  
 1011 E. Colonial Dr. #307  
 Orlando, FL 32803  
 407.255.5300  
 © Copyright 2020 ELEVEN18 ARCHITECTURE, P.L.L.C.  
 All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**

40 RAWLFS CLUB RD  
 FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
 MATTHEW A. CONTE  
 407.745.5301  
 mcont@eleven18architecture.com

PROJECT TEAM:  
 Gabriela Salazar  
 Pamela Friday  
 Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

| LPA1                         |         |                           |                       |       |        |                       |         |                               |                               |      |          |
|------------------------------|---------|---------------------------|-----------------------|-------|--------|-----------------------|---------|-------------------------------|-------------------------------|------|----------|
| ROOM STORAGE 193             |         |                           | VOLTS 208Y/120V 3P 4W |       |        | AIC 22,000            |         |                               | MOUNTING SURFACE MAIN BKR MLO |      |          |
| FED FROM MSB                 |         |                           | BUS AMPS 225          |       |        | NEUTRAL 100%          |         |                               | LUGS STANDARD                 |      |          |
| NOTE                         |         |                           |                       |       |        |                       |         |                               |                               |      |          |
| CKT #                        | CKT BKR | CIRCUIT DESCRIPTION       | LOAD KVA              |       |        | CKT #                 | CKT BKR | CIRCUIT DESCRIPTION           | LOAD KVA                      |      |          |
|                              |         |                           | A                     | B     | C      |                       |         |                               | A                             | B    | C        |
| 1                            | 20/1    | FRIDGE (AFC) - UNIT 194   | 0.9                   |       |        | 2                     | 20/1    | RCPT (AFC) - UNIT 194 BEDROOM | 0.9                           |      |          |
| 3                            | 15/2    | PTH1 - UNIT 194           |                       | 1.05  |        | 4                     | 20/1    | RCPT (AFC) - UNIT 194 KITCHEN |                               | 0.54 |          |
| 5                            |         |                           |                       |       |        | 6                     | 20/1    | RCPT - UNIT 194 TOILET        |                               |      | 0.18     |
| 7                            | 20/1    | FRIDGE (AFC) - UNIT 195   | 0.9                   |       | 1.05   | 8                     | 20/1    | RCPT (AFC) - UNIT 195 BEDROOM | 0.9                           |      |          |
| 9                            | 15/2    | PTH1 - UNIT 195           |                       | 1.05  |        | 10                    | 20/1    | RCPT (AFC) - UNIT 195 KITCHEN |                               | 0.54 |          |
| 11                           |         |                           |                       |       |        | 12                    | 20/1    | RCPT - UNIT 195 TOILET        |                               |      | 0.18     |
| 13                           | 20/1    | FRIDGE (AFC) - UNIT 196   | 0.9                   |       | 1.05   | 14                    | 20/1    | RCPT (AFC) - UNIT 196 BEDROOM | 0.9                           |      |          |
| 15                           | 15/2    | PTH1 - UNIT 196           |                       | 1.05  |        | 16                    | 20/1    | RCPT (AFC) - UNIT 196 KITCHEN |                               | 0.36 |          |
| 17                           |         |                           |                       |       |        | 18                    | 20/1    | RCPT - UNIT 196 TOILET        |                               |      | 0.18     |
| 19                           | 20/1    | FRIDGE (AFC) - UNIT 197   | 0.9                   |       | 1.05   | 20                    | 20/1    | RCPT (AFC) - UNIT 197 BEDROOM | 0.9                           |      |          |
| 21                           | 15/2    | PTH1 - UNIT 196           |                       | 1.05  |        | 22                    | 20/1    | RCPT (AFC) - UNIT 197 KITCHEN |                               | 0.36 |          |
| 23                           |         |                           |                       |       |        | 24                    | 20/1    | RCPT - UNIT 197 TOILET        |                               |      | 0.18     |
| 25                           | 20/1    | FRIDGE (AFC) - UNIT 198   | 0.9                   |       | 1.05   | 26                    | 20/1    | RCPT (AFC) - UNIT 198 BEDROOM | 0.9                           |      |          |
| 27                           | 15/2    | PTH1 - UNIT 198           |                       | 1.05  |        | 28                    | 20/1    | RCPT (AFC) - UNIT 198 KITCHEN |                               | 0.36 |          |
| 29                           |         |                           |                       |       |        | 30                    | 20/1    | RCPT - UNIT 198 TOILET        |                               |      | 0.18     |
| 31                           | 20/1    | FRIDGE (AFC) - UNIT 199   | 0.9                   |       | 1.05   | 32                    | 20/1    | RCPT (AFC) - UNIT 199 BEDROOM | 0.9                           |      |          |
| 33                           | 15/2    | PTH1 - UNIT 199           |                       | 1.05  |        | 34                    | 20/1    | RCPT (AFC) - UNIT 199 KITCHEN |                               | 0.36 |          |
| 35                           |         |                           |                       |       |        | 36                    | 20/1    | RCPT - UNIT 199 TOILET        |                               |      | 0.18     |
| 37                           | 20/1    | RCPT - N. CORRIDOR 202    | 0.54                  |       |        | 38                    | 20/1    | SPARE                         | 0                             | 0    | 0        |
| 39                           | 20/1    | RCPT - N. CORRIDOR 202    |                       | 0.36  |        | 40                    | 20/1    | SPARE                         |                               |      | 0        |
| 41                           | 20/1    | RCPT - N. & N.E. EXTERIOR |                       |       | 0.54   | 42                    | 20/1    | SPARE                         |                               |      | 0        |
| 43                           | 20/1    | SPARE                     | 0                     |       |        | 44                    | 20/1    | SPARE                         | 0                             |      | 0        |
| 45                           | 20/1    | SPARE                     | 0                     |       |        | 46                    | 20/1    | SPARE                         | 0                             |      | 0        |
| 47                           | 15/2    | SPARE                     |                       | 0     |        | 48                    | 20/1    | SPARE                         |                               | 0    | 0        |
| 49                           |         |                           |                       |       |        | 50                    | 20/1    | SPARE                         |                               | 0    | 0        |
| 51                           | 15/2    | SPARE                     |                       | 0     |        | 52                    | 20/1    | SPARE                         |                               | 0    | 0        |
| 53                           |         |                           |                       |       |        | 54                    | 20/1    | SPARE                         |                               | 0    | 0        |
| TOTAL CONNECTED KVA BY PHASE |         |                           | 11.3                  | 9.18  | 7.92   |                       |         |                               |                               |      |          |
| LARGEST MOTOR MOTORS         |         |                           | 2.1                   | 0.525 | (25%)  | RECEPTACLES HEATING   |         |                               | 15.3                          | 12.7 | (50%>10) |
|                              |         |                           | 2.1                   | 2.1   | (100%) |                       |         |                               | 10.5                          | 10.5 | (100%)   |
|                              |         |                           |                       |       |        | TOTAL LOAD            |         |                               | 25.8                          |      |          |
|                              |         |                           |                       |       |        | BALANCED 3-PHASE LOAD |         |                               | 71.5 A                        |      |          |

(AFC) = PROVIDE AFCI PROTECTION IF REQUIRED BY AHJ

| LPA2                         |         |                         |                       |       |        |                       |         |                                   |                               |      |          |
|------------------------------|---------|-------------------------|-----------------------|-------|--------|-----------------------|---------|-----------------------------------|-------------------------------|------|----------|
| ROOM STORAGE 193             |         |                         | VOLTS 208Y/120V 3P 4W |       |        | AIC 22,000            |         |                                   | MOUNTING SURFACE MAIN BKR MLO |      |          |
| FED FROM MSB                 |         |                         | BUS AMPS 225          |       |        | NEUTRAL 100%          |         |                                   | LUGS STANDARD                 |      |          |
| NOTE                         |         |                         |                       |       |        |                       |         |                                   |                               |      |          |
| CKT #                        | CKT BKR | CIRCUIT DESCRIPTION     | LOAD KVA              |       |        | CKT #                 | CKT BKR | CIRCUIT DESCRIPTION               | LOAD KVA                      |      |          |
|                              |         |                         | A                     | B     | C      |                       |         |                                   | A                             | B    | C        |
| 1                            | 20/1    | FRIDGE (AFC) - UNIT 200 | 0.9                   |       |        | 2                     | 20/1    | RCPT (AFC) - UNIT 200 BEDROOM     | 0.9                           |      |          |
| 3                            | 15/2    | PTH1 - UNIT 200         |                       | 1.05  |        | 4                     | 20/1    | RCPT (AFC) - UNIT 200 KITCHEN     |                               | 0.36 |          |
| 5                            |         |                         |                       |       |        | 6                     | 20/1    | RCPT - UNIT 200 TOILET            |                               |      | 0.18     |
| 7                            | 20/1    | FRIDGE (AFC) - UNIT 201 | 0.9                   |       | 1.05   | 8                     | 20/1    | RCPT (AFC) - UNIT 201 BEDROOM     | 0.9                           |      |          |
| 9                            | 15/2    | PTH1 - UNIT 201         |                       | 1.05  |        | 10                    | 20/1    | RCPT (AFC) - UNIT 201 KITCHEN     |                               | 0.36 |          |
| 11                           |         |                         |                       |       |        | 12                    | 20/1    | RCPT - UNIT 201 TOILET            |                               |      | 0.18     |
| 13                           | 20/1    | FRIDGE (AFC) - UNIT 189 | 0.9                   |       | 1.05   | 14                    | 20/1    | RCPT (AFC) - UNIT 189 COMMON AREA | 0.9                           |      |          |
| 15                           | 15/2    | PTH1 - UNIT 189A        |                       | 1.05  |        | 16                    | 20/1    | RCPT (AFC) - UNIT 189 KITCHEN     |                               | 0.4  |          |
| 17                           |         |                         |                       |       |        | 18                    | 20/1    | RCPT - UNIT 189 TOILET            |                               |      | 0.18     |
| 19                           | 15/2    | PTH1 - UNIT 189B        |                       | 1.05  |        | 20                    | 20/1    | RCPT (AFC) - UNIT 189A BEDROOM    | 0.9                           |      |          |
| 21                           |         |                         |                       |       |        | 22                    | 20/1    | RCPT (AFC) - UNIT 189B BEDROOM    |                               | 0.9  |          |
| 23                           | 20/1    | FRIDGE (AFC) - UNIT 192 | 0.9                   |       | 1.05   | 24                    | 20/1    | RCPT (AFC) - UNIT 192 BEDROOM     | 0.9                           |      |          |
| 25                           | 15/2    | PTH1 - UNIT 192         |                       | 1.05  |        | 26                    | 20/1    | RCPT (AFC) - UNIT 192 KITCHEN     |                               | 0.36 |          |
| 27                           |         |                         |                       |       |        | 28                    | 20/1    | RCPT - UNIT 192 TOILET            |                               |      | 0.18     |
| 29                           | 20/1    | FRIDGE (AFC) - UNIT 190 | 0.9                   |       | 1.05   | 30                    | 20/1    | RCPT (AFC) - UNIT 190 BEDROOM     | 0.9                           |      |          |
| 31                           | 15/2    | PTH1 - UNIT 190         |                       | 1.05  |        | 32                    | 20/1    | RCPT (AFC) - UNIT 190 KITCHEN     |                               | 0.36 |          |
| 33                           |         |                         |                       |       |        | 34                    | 20/1    | RCPT - UNIT 190 TOILET            |                               |      | 0.18     |
| 35                           | 20/1    | SPARE                   | 0                     |       |        | 36                    | 20/1    | SPARE                             | 0                             |      | 0        |
| 37                           | 20/1    | SPARE                   | 0                     |       |        | 38                    | 20/1    | SPARE                             | 0                             |      | 0        |
| 39                           | 20/1    | SPARE                   | 0                     |       |        | 40                    | 20/1    | SPARE                             | 0                             |      | 0        |
| 41                           | 20/1    | SPARE                   | 0                     |       |        | 42                    | 20/1    | SPARE                             | 0                             |      | 0        |
| 43                           | 20/1    | SPARE                   | 0                     |       |        | 44                    | 20/1    | SPARE                             | 0                             |      | 0        |
| 45                           | 20/1    | SPARE                   | 0                     |       |        | 46                    | 20/1    | SPARE                             | 0                             |      | 0        |
| 47                           | 15/2    | SPARE                   |                       | 0     |        | 48                    | 15/2    | SPARE                             |                               | 0    | 0        |
| 49                           |         |                         |                       |       |        | 50                    |         |                                   |                               |      | 0        |
| 51                           | 15/2    | SPARE                   |                       | 0     |        | 52                    | 15/2    | SPARE                             |                               | 0    | 0        |
| 53                           |         |                         |                       |       |        | 54                    |         |                                   |                               |      | 0        |
| TOTAL CONNECTED KVA BY PHASE |         |                         | 9.45                  | 8.68  | 7.29   |                       |         |                                   |                               |      |          |
| LARGEST MOTOR MOTORS         |         |                         | 2.1                   | 0.525 | (25%)  | RECEPTACLES HEATING   |         |                                   | 12.8                          | 11.4 | (50%>10) |
|                              |         |                         | 2.1                   | 2.1   | (100%) |                       |         |                                   | 10.5                          | 10.5 | (100%)   |
|                              |         |                         |                       |       |        | TOTAL LOAD            |         |                                   | 24.5                          |      |          |
|                              |         |                         |                       |       |        | BALANCED 3-PHASE LOAD |         |                                   | 68.1 A                        |      |          |

(AFC) = PROVIDE AFCI PROTECTION IF REQUIRED BY AHJ

| K                            |         |  |                       |       |        |                               |         |  |                               |       |          |
|------------------------------|---------|--|-----------------------|-------|--------|-------------------------------|---------|--|-------------------------------|-------|----------|
| ROOM SERVERY 159             |         |  | VOLTS 208Y/120V 3P 4W |       |        | AIC 22,000                    |         |  | MOUNTING SURFACE MAIN BKR MLO |       |          |
| FED FROM MSB                 |         |  | BUS AMPS 225          |       |        | NEUTRAL 100%                  |         |  | LUGS STANDARD                 |       |          |
| NOTE                         |         |  |                       |       |        |                               |         |  |                               |       |          |
| CKT #                        | CKT BKR | CIRCUIT DESCRIPTION                      | LOAD KVA              |       |        | CKT #                         | CKT BKR | CIRCUIT DESCRIPTION                      | LOAD KVA                      |       |          |
|                              |         |  | A                     | B     | C      |                               |         |  | A                             | B     | C        |
| 1                            | 20/2    | #202 HOT FOOD TABLE (GFCI) - KITCHEN 163 | 1.38                  |       |        | 2                             | 20/1    | #401 FOOD PROCESSOR - KITCHEN 163        | 0.84                          |       |          |
| 3                            |         |  |                       | 1.38  |        | 4                             | 20/1    | #402 PLANETARY MIXER - KITCHEN 163       |                               | 0.492 |          |
| 5                            | 20/1    | #216 DISHWASHER - KITCHEN 163            |                       |       | 1.92   | 6                             | 20/1    | #403 CONVEYOR TOASTER - KITCHEN 163      |                               |       | 1.6      |
| 7                            | 20/1    | #221 HEAT LAMPS - KITCHEN 163            | 0.75                  |       |        | 8                             | 20/1    | #404 MICROWAVE OVEN - KITCHEN 163        |                               | 1.68  |          |
| 9                            | 20/1    | #305 HEAT LAMP TABLE MOUNT - SERVERY 159 |                       | 0.996 |        | 10                            | 20/1    | #406 PANINI SANDWICH PRESS - KITCHEN 163 |                               | 1.8   |          |
| 11                           | 20/2    | #306 DROP IN HOT FOOD WELL - SERVERY 159 |                       |       | 1.3    | 12                            | 30/1    | #407 WAFFLE MAKER - SERVERY 159          |                               |       | 2.4      |
| 13                           |         |  |                       |       |        | 14                            | 20/1    | RCPT - KITCHEN 163                       |                               | 0.36  |          |
| 15                           | 20/1    | RCPT - KITCHEN 163                       |                       | 0.36  |        | 16                            | 20/1    | RCPT - SERVERY 159                       |                               | 0.18  |          |
| 17                           | 20/1    | RCPT - KITCHEN 163                       |                       |       | 0.18   | 18                            | 20/1    | RCPT - SERVERY 159                       |                               | 0.18  | 0.18     |
| 19                           | 20/1    | SPARE                                    | 0                     |       |        | 20                            | 20/1    | RCPT - SERVERY 159                       |                               | 0.18  |          |
| 21                           | 20/1    | SPARE                                    | 0                     |       |        | 22                            | 20/1    | RCPT - SERVERY 159                       |                               | 0.18  | 0        |
| 23                           | 20/1    | SPARE                                    | 0                     |       |        | 24                            | 20/1    | SPARE                                    |                               |       | 0        |
| 25                           | 20/1    | SPARE                                    | 0                     |       |        | 26                            | 20/1    | SPARE                                    |                               |       | 0        |
| 27                           | 20/1    | SPARE                                    | 0                     |       |        | 28                            | 20/1    | SPARE                                    |                               |       | 0        |
| 29                           | 20/1    | SPARE                                    | 0                     |       |        | 30                            | 20/1    | SPARE                                    |                               |       | 0        |
| 31                           | 20/1    | SPARE                                    | 0                     |       |        | 32                            | 20/1    | SPARE                                    |                               |       | 0        |
| 33                           | 20/1    | SPARE                                    | 0                     |       |        | 34                            | 20/1    | SPARE                                    |                               |       | 0        |
| 35                           | 20/1    | SPARE                                    | 0                     |       |        | 36                            | 20/1    | SPARE                                    |                               |       | 0        |
| 37                           | 20/1    | SPARE                                    | 0                     |       |        | 38                            | 20/1    | SPARE                                    |                               |       | 0        |
| 39                           | 20/1    | SPARE                                    | 0                     |       |        | 40                            | 20/1    | SPARE                                    |                               |       | 0        |
| 41                           | 20/1    | SPARE                                    | 0                     |       |        | 42                            | 20/1    | SPARE                                    |                               |       | 0        |
| 43                           | 20/1    | SPARE                                    | 0                     |       |        | 44                            | 20/1    | SPARE                                    |                               |       | 0        |
| 45                           | 20/1    | SPARE                                    | 0                     |       |        | 46                            | 20/1    | SPARE                                    |                               |       | 0        |
| 47                           | 15/2    | SPARE                                    |                       | 0     |        | 48                            | 20/1    | SPARE                                    |                               |       | 0        |
| 49                           |         |  |                       |       |        | 50                            |         |  |                               |       | 0        |
| 51                           | 15/2    | SPARE                                    |                       | 0     |        | 52                            | 15/2    | SPARE                                    |                               | 0     | 0        |
| 53                           |         |  |                       |       |        | 54                            |         |  |                               |       | 0        |
| TOTAL CONNECTED KVA BY PHASE |         |  | 6.49                  | 5.39  | 7.58   |                               |         |  |                               |       |          |
| LARGEST MOTOR MOTORS         |         |  | 2.4                   | 0.6   | (25%)  | RECEPTACLES KITCHEN EQUIPMENT |         |  | 1.62                          | 1.62  | (50%>10) |
|                              |         |  | 5.88                  | 5.88  | (100%) |                               |         |  | 7.77                          | 7.77  | (65%)    |
|                              |         |  |                       |       |        | TOTAL LOAD                    |         |  | 15.9                          |       |          |
|                              |         |  |                       |       |        | BALANCED 3-PHASE LOAD         |         |  | 44.1 A                        |       |          |

(GFCI) = PROVIDE GFCI PROTECTION

| GPDP                |         |   |                       |       |      |              |         |                     |                               |      |   |
|---------------------|---------|---|-----------------------|-------|------|--------------|---------|---------------------|-------------------------------|------|---|
| ROOM ELECTRICAL 169 |         |   | VOLTS 208Y/120V 3P 4W |       |      | AIC 65,000   |         |                     | MOUNTING SURFACE MAIN BKR MLO |      |   |
| FED FROM ATS        |         |   | BUS AMPS 800          |       |      | NEUTRAL 100% |         |                     | LUGS STANDARD                 |      |   |
| NOTE                |         |   |                       |       |      |              |         |                     |                               |      |   |
| CKT #               | CKT BKR | CIRCUIT DESCRIPTION                       | LOAD KVA              |       |      | CKT #        | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA                      |      |   |
|                     |         |   | A                     | B     | C    |              |         |                     | A                             | B    | C |
| 1                   | 200/3   | PANEL GPB1                                | 7.41                  |       |      | 2            | -/3     | BUS SPACE FOR GPB1  | 0                             | 0    | 0 |
| 3                   |         |   |                       | 7.1   |      | 4            |         |                     |                               |      |   |
| 5                   |         |   |                       |       | 7.83 | 6            |         |                     |                               |      |   |
| 7                   | 200/3   | PANEL GPD1                                | 16.7                  |       |      | 8            | -/3     | BUS SPACE FOR GPD1  | 0                             | 0    | 0 |
| 9                   |         |   |                       | 16.2  |      | 10           |         |                     |                               |      |   |
| 11                  |         |   |                       |       | 14.8 | 12           |         |                     |                               |      |   |
| 13                  | 225/3   | PANEL PPM1                                | 26.6                  |       |      | 14           | -/3     | BUS SPACE FOR PPM1  | 0                             | 0    | 0 |
| 15                  |         |   |                       | 23.8  |      | 16           |         |                     |                               |      |   |
| 17                  |         |   |                       |       | 20.5 | 18           |         |                     |                               |      |   |
| 19                  | 225/3   | PANEL PPMB                                | 16.2                  |       |      | 20           | -/3     | BUS SPACE FOR PPMB  | 0                             | 0    | 0 |
| 21                  |         |   |                       | 16.2  |      | 22           |         |                     |                               |      |   |
| 23                  |         |   |                       |       | 9.16 | 24           |         |                     |                               |      |   |
| 25                  | 20/3    | #1 KITCHEN HOOD EXHAUST FAN - KITCHEN 163 | 0.312                 |       |      | 26           | 45/2    | HEAT PUMP 5         | 2.33                          |      |   |
| 27                  |         |   |                       | 0.312 |      | 28           |         |                     |                               | 2.33 |   |



| LPB1                         |         |                          |                       |          |        |                       |         |   |          |          |          |
|------------------------------|---------|--------------------------|-----------------------|----------|--------|-----------------------|---------|---|----------|----------|----------|
| ROOM TEL. ELECTRIC 109       |         |                          | VOLTS 208Y/120V 3P 4W |          |        | AIC 22,000            |         |   |          |          |          |
| MOUNTING SURFACE             |         |                          | BUS AMPS 225          |          |        | MAIN BKR MLO          |         |   |          |          |          |
| FED FROM MSB                 |         |                          | NEUTRAL 100%          |          |        | LUGS STANDARD         |         |   |          |          |          |
| NOTE                         |         |                          |                       |          |        |                       |         |   |          |          |          |
| CKT #                        | CKT BKR | CIRCUIT DESCRIPTION      | LOAD KVA              |          |        | CKT #                 | CKT BKR | CIRCUIT DESCRIPTION   | LOAD KVA |          |          |
|                              |         |                          | A                     | B        | C      |                       |         |   | A        | B        | C        |
| 1                            | 20/1    | FRIDGE (AFCI) - UNIT 113 | 0.9                   |          |        | 2                     | 20/1    | RCPT (AFCI) - UNIT 113 BEDROOM                              | 0.9      |          |          |
| 3                            | 15/2    | PTHP1 - UNIT 113         |                       | 1.05     |        | 4                     | 20/1    | RCPT (AFCI) - UNIT 113 KITCHEN                              |          | 0.36     |          |
| 5                            |         |                          |                       |          | 1.05   | 6                     | 20/1    | RCPT - UNIT 113 TOILET                                      |          |          | 0.18     |
| 7                            | 20/1    | FRIDGE (AFCI) - UNIT 115 | 0.9                   |          |        | 8                     | 20/1    | RCPT (AFCI) - UNIT 115 BEDROOM                              | 0.9      |          |          |
| 9                            | 15/2    | PTHP1 - UNIT 115         |                       | 1.05     |        | 10                    | 20/1    | RCPT (AFCI) - UNIT 115 KITCHEN                              |          | 0.36     |          |
| 11                           |         |                          |                       |          | 1.05   | 12                    | 20/1    | RCPT - UNIT 115 TOILET                                      |          |          | 0.18     |
| 13                           | 20/1    | FRIDGE (AFCI) - UNIT 117 | 0.9                   |          |        | 14                    | 20/1    | RCPT (AFCI) - UNIT 117 BEDROOM                              | 0.9      |          |          |
| 15                           | 15/2    | PTHP1 - UNIT 117         |                       | 1.05     |        | 16                    | 20/1    | RCPT (AFCI) - UNIT 117 KITCHEN                              |          | 0.36     |          |
| 17                           |         |                          |                       |          | 1.05   | 18                    | 20/1    | RCPT - UNIT 117 TOILET                                      |          |          | 0.18     |
| 19                           | 20/1    | FRIDGE (AFCI) - UNIT 119 | 0.9                   |          |        | 20                    | 20/1    | RCPT (AFCI) - UNIT 119 BEDROOM                              | 0.9      |          |          |
| 21                           | 15/2    | PTHP1 - UNIT 119         |                       | 1.05     |        | 22                    | 20/1    | RCPT (AFCI) - UNIT 119 KITCHEN                              |          | 0.36     |          |
| 23                           |         |                          |                       |          | 1.05   | 24                    | 20/1    | RCPT - UNIT 119 TOILET                                      |          |          | 0.18     |
| 25                           | 20/1    | FRIDGE (AFCI) - UNIT 121 | 0.9                   |          |        | 26                    | 20/1    | RCPT (AFCI) - UNIT 121 BEDROOM                              | 0.9      |          |          |
| 27                           | 15/2    | PTHP1 - UNIT 121         |                       | 1.05     |        | 28                    | 20/1    | RCPT (AFCI) - UNIT 121 KITCHEN                              |          | 0.36     |          |
| 29                           |         |                          |                       |          | 1.05   | 30                    | 20/1    | RCPT - ROOM 121 TOILET                                      |          |          | 0.18     |
| 31                           | 20/1    | FRIDGE (AFCI) - UNIT 123 | 0.9                   |          |        | 32                    | 20/1    | RCPT (AFCI) - UNIT 123 BEDROOM                              | 0.9      |          |          |
| 33                           | 15/2    | PTHP1 - UNIT 123         |                       | 1.05     |        | 34                    | 20/1    | RCPT (AFCI) - UNIT 123 KITCHEN                              |          | 0.36     |          |
| 35                           |         |                          |                       |          | 1.05   | 36                    | 20/1    | RCPT - UNIT 123 TOILET                                      |          |          | 0.18     |
| 37                           | 20/1    | RCPT - OFFICE 106        | 0.18                  |          |        | 38                    | 20/1    | RCPT - RECEPTION 102  | 0.36     |          |          |
| 39                           | 20/1    | RCPT - OFFICE 106        |                       | 0.54     |        | 40                    | 20/1    | RCPT - RECEPTION 102  |          | 0.36     |          |
| 41                           | 20/1    | RCPT - OFFICE 105        |                       | 0.54     |        | 42                    | 20/1    | RCPT - OFFICE 103   |          | 0.36     |          |
| 43                           | 20/1    | RCPT - OFFICE 105        | 0.18                  |          |        | 44                    | 20/1    | RCPT - OFFICE 103   | 0.36     |          |          |
| 45                           | 20/1    | LIGHT - SITE POLE        |                       | 1.09     |        | 46                    | 20/1    | RCPT - N.E. EXTERIOR  |          | 0.54     |          |
| 47                           | 20/1    | EXTERIOR SIGNAGE         |                       | 0.3      |        | 48                    | 20/1    | RCPT - N.E. EXTERIOR, VESTIBULE 100, MEN'S 108, WOMEN'S 109 |          | 1.08     |          |
| 49                           | 20/1    | EXTERIOR SIGNAGE         | 0.3                   |          |        | 50                    | 20/1    | RCPT - LOBBY 101, LOUNGE 110                                | 0.54     |          |          |
| 51                           | 15/2    | SPARE                    |                       | 0        |        | 52                    | 20/1    | EXTERIOR SIGNAGE  |          | 0.4      |          |
| 53                           |         |                          |                       | 0        |        | 54                    | 20/1    | SPARE   |          | 0        |          |
| TOTAL CONNECTED KVA BY PHASE |         |                          |                       |          |        |                       |         |   | 12.7     | 11.4     | 9.66     |
| LIGHTING                     |         |                          | CONN KVA              | CALC KVA | (125%) | RECEPTACLES           |         |   | CONN KVA | CALC KVA | (50%*10) |
| LARGEST MOTOR                |         |                          | 2.09                  | 2.61     |        | HEATING               |         |   | 19.1     | 14.5     | (100%)   |
| MOTORS                       |         |                          | 3.84                  | 3.84     | (100%) | TOTAL LOAD            |         |   | 29.7     |          |          |
|                              |         |                          |                       |          |        | BALANCED 3-PHASE LOAD |         |   | 82.6     | A        |          |

(AFCI) = PROVIDE AFCI PROTECTION IF REQUIRED BY AHJ

| PPM1                         |         |   |                       |          |        |                       |         |                       |          |       |          |
|------------------------------|---------|---|-----------------------|----------|--------|-----------------------|---------|-----------------------|----------|-------|----------|
| ROOM ELECTRICAL 169          |         |   | VOLTS 208Y/120V 3P 4W |          |        | AIC 42,000            |         |                       |          |       |          |
| MOUNTING SURFACE             |         |   | BUS AMPS 225          |          |        | MAIN BKR MLO          |         |                       |          |       |          |
| FED FROM GPDP                |         |   | NEUTRAL 100%          |          |        | LUGS STANDARD         |         |                       |          |       |          |
| NOTE                         |         |   |                       |          |        |                       |         |                       |          |       |          |
| CKT #                        | CKT BKR | CIRCUIT DESCRIPTION                     | LOAD KVA              |          |        | CKT #                 | CKT BKR | CIRCUIT DESCRIPTION   | LOAD KVA |       |          |
|                              |         |   | A                     | B        | C      |                       |         |                       | A        | B     | C        |
| 1                            | 60/2    | HEAT PUMP 8                             | 3.08                  |          |        | 2                     | 45/2    | AIR HANDLER 5 - ATTIC | 3.49     |       |          |
| 3                            |         |   |                       | 3.08     |        | 4                     |         |                       |          | 3.49  |          |
| 5                            | 60/2    | HEAT PUMP 9                             |                       | 3.08     |        | 6                     | 40/2    | AIR HANDLER 6 - ATTIC |          | 3.33  |          |
| 7                            |         |   |                       |          | 3.08   | 8                     |         |                       |          |       | 3.33     |
| 9                            | 20/3    | #102 COOLER CONDENSOR UNIT              | 1.48                  |          |        | 10                    | 60/2    | AIR HANDLER 8 - ATTIC | 1.48     |       | 4.41     |
| 11                           |         |   |                       |          | 1.48   | 12                    |         |                       |          |       | 4.41     |
| 13                           |         |   |                       |          | 1.48   | 14                    | 60/2    | AIR HANDLER 9 - ATTIC | 1.48     |       | 4.41     |
| 15                           | 20/1    | #102.1 COOLER EVAPORATOR - KITCHEN 163  | 1.48                  |          |        | 16                    |         |                       |          | 4.41  |          |
| 17                           | 20/3    | #103 FREEZER CONDENSOR UNIT             | 1.8                   |          |        | 18                    | 15/2    | ENERGY RECOVERY 6     | 1.04     |       | 1.04     |
| 19                           |         |   |                       |          | 1.8    | 20                    |         |                       |          | 1.04  |          |
| 21                           |         |   |                       |          | 1.8    | 22                    | 20/1    | EXHAUST FAN           |          | 0.424 |          |
| 23                           | 20/2    | #103.1 FREEZER EVAPORATOR - KITCHEN 163 | 2.08                  |          |        | 24                    | 20/1    | EXHAUST FAN           |          | 0.696 |          |
| 25                           |         |   |                       |          | 2.08   | 26                    | 20/1    | EXHAUST FAN           |          | 0.696 |          |
| 27                           | 20/1    | FREEZER DRAIN ANTISWEATS - KITCHEN 163  | 0.1                   |          |        | 28                    | 15/2    | SPARE                 |          | 0     |          |
| 29                           | 20/1    | RCPT - MECHANICAL 168                   |                       |          | 0.54   | 30                    |         |                       |          | 0     |          |
| 31                           | 20/1    | RCPT - ELECTRICAL 169                   | 0.18                  |          |        | 32                    | 15/2    | SPARE                 |          | 0     |          |
| 33                           | 20/1    | RCPT - ATTIC                            |                       | 0.72     |        | 34                    |         |                       |          | 0     |          |
| 35                           | 20/1    | LIGHT - ATTIC                           |                       |          | 0.038  | 36                    | 20/1    | SPARE                 |          | 0     |          |
| 37                           | 20/1    | RPZ HEATER #1 (GFEP)                    | 1.98                  |          |        | 38                    | 20/1    | SPARE                 |          | 0     |          |
| 39                           | 20/1    | RPZ HEATER #2 (GFEP)                    |                       | 1.98     |        | 40                    | 20/1    | SPARE                 |          | 0     |          |
| 41                           | 20/1    | RPZ HEATER #3 (GFEP)                    |                       |          | 1.98   | 42                    | 20/1    | SPARE                 |          | 0     |          |
| 43                           | 20/1    | SPACE                                   |                       |          | 0      | 44                    | 20/1    | SPACE                 |          | 0     |          |
| 45                           | 20/1    | SPACE                                   |                       |          | 0      | 46                    | 20/1    | SPACE                 |          | 0     |          |
| 47                           | 20/1    | SPACE                                   |                       |          | 0      | 48                    | 20/1    | SPACE                 |          | 0     |          |
| 49                           | 20/1    | SPACE                                   |                       |          | 0      | 50                    | 20/1    | SPACE                 |          | 0     |          |
| 51                           | 20/1    | SPACE                                   |                       |          | 0      | 52                    | 20/1    | SPACE                 |          | 0     |          |
| 53                           | 20/1    | SPACE                                   |                       |          | 0      | 54                    | 20/1    | SPACE                 |          | 0     |          |
| 55                           | 20/1    | SPACE                                   |                       |          | 0      | 56                    | 20/1    | SPACE                 |          | 0     |          |
| 57                           | 20/1    | SPACE                                   |                       |          | 0      | 58                    | 20/1    | SPACE                 |          | 0     |          |
| 59                           | 20/1    | SPACE                                   |                       |          | 0      | 60                    | 20/1    | SPACE                 |          | 0     |          |
| TOTAL CONNECTED KVA BY PHASE |         |   |                       |          |        |                       |         |                       | 26.6     | 23.8  | 20.5     |
| LIGHTING                     |         |   | CONN KVA              | CALC KVA | (125%) | RECEPTACLES           |         |                       | 1.98     | 1.98  | (50%*10) |
| LARGEST MOTOR                |         |   | 8.82                  | 2.2      | (25%)  | NONCONTINUOUS         |         |                       | 1.9      | 1.9   | (100%)   |
| MOTORS                       |         |   | 17.7                  | 17.7     | (100%) | HEATING               |         |                       | 49.3     | 49.3  | (100%)   |
|                              |         |   |                       |          |        | COOLING               |         |                       | 45.7     | 0     | (0%)     |
|                              |         |   |                       |          |        | TOTAL LOAD            |         |                       | 73.1     |       |          |
|                              |         |   |                       |          |        | BALANCED 3-PHASE LOAD |         |                       | 203      | A     |          |

GFEP = GROUND FAULT EQUIPMENT PROTECTION

| LPB2                         |         |                          |                       |      |          |                       |         |                                 |          |      |        |
|------------------------------|---------|--------------------------|-----------------------|------|----------|-----------------------|---------|---------------------------------|----------|------|--------|
| ROOM TEL. ELECTRIC 109       |         |                          | VOLTS 208Y/120V 3P 4W |      |          | AIC 22,000            |         |                                 |          |      |        |
| MOUNTING SURFACE             |         |                          | BUS AMPS 225          |      |          | MAIN BKR MLO          |         |                                 |          |      |        |
| FED FROM MSB                 |         |                          | NEUTRAL 100%          |      |          | LUGS STANDARD         |         |                                 |          |      |        |
| NOTE                         |         |                          |                       |      |          |                       |         |                                 |          |      |        |
| CKT #                        | CKT BKR | CIRCUIT DESCRIPTION      | LOAD KVA              |      |          | CKT #                 | CKT BKR | CIRCUIT DESCRIPTION             | LOAD KVA |      |        |
|                              |         |                          | A                     | B    | C        |                       |         |                                 | A        | B    | C      |
| 1                            | 20/1    | FRIDGE (AFCI) - UNIT 125 | 0.9                   |      |          | 2                     | 20/1    | RCPT (AFCI) - UNIT 125 BEDROOM  | 0.9      |      |        |
| 3                            | 15/2    | PTHP1 - UNIT 125         |                       | 1.05 |          | 4                     | 20/1    | RCPT (AFCI) - UNIT 125 KITCHEN  |          | 0.36 |        |
| 5                            |         |                          |                       |      | 1.05     | 6                     | 20/1    | RCPT - UNIT 125 TOILET          |          |      | 0.18   |
| 7                            | 20/1    | FRIDGE (AFCI) - UNIT 122 | 0.9                   |      |          | 8                     | 20/1    | RCPT (AFCI) - UNIT 122 BEDROOM  | 0.9      |      |        |
| 9                            | 15/2    | PTHP1 - UNIT 122         |                       | 1.05 |          | 10                    | 20/1    | RCPT (AFCI) - UNIT 122 KITCHEN  |          | 0.36 |        |
| 11                           |         |                          |                       |      | 1.05     | 12                    | 20/1    | RCPT - UNIT 122 TOILET          |          |      | 0.18   |
| 13                           | 20/1    | FRIDGE (AFCI) - UNIT 127 | 0.9                   |      |          | 14                    | 20/1    | RCPT (AFCI) - UNIT 127 BEDROOM  | 0.9      |      |        |
| 15                           | 15/2    | PTHP1 - UNIT 127         |                       | 1.05 |          | 16                    | 20/1    | RCPT (AFCI) - UNIT 127 KITCHEN  |          | 0.36 |        |
| 17                           |         |                          |                       |      | 1.05     | 18                    | 20/1    | RCPT - UNIT 127 TOILET          |          |      | 0.18   |
| 19                           | 20/1    | FRIDGE (AFCI) - UNIT 129 | 0.9                   |      |          | 20                    | 20/1    | RCPT (AFCI) - UNIT 129 BEDROOM  | 0.9      |      |        |
| 21                           | 15/2    | PTHP1 - UNIT 129         |                       | 1.05 |          | 22                    | 20/1    | RCPT (AFCI) - UNIT 129 KITCHEN  |          | 0.36 |        |
| 23                           |         |                          |                       |      | 1.05     | 24                    | 20/1    | RCPT - UNIT 129 TOILET          |          |      | 0.18   |
| 25                           | 20/1    | FRIDGE (AFCI) - UNIT 131 | 0.9                   |      |          | 26                    | 20/1    | RCPT (AFCI) - UNIT 131 BEDROOM  | 0.9      |      |        |
| 27                           | 15/2    | PTHP1 - UNIT 131         |                       | 1.05 |          | 28                    | 20/1    | RCPT (AFCI) - UNIT 131 KITCHEN  |          | 0.36 |        |
| 29                           |         |                          |                       |      | 1.05     | 30                    | 20/1    | RCPT - UNIT 131 TOILET          |          |      | 0.18   |
| 31                           | 20/1    | FRIDGE (AFCI) - UNIT 133 | 0.9                   |      |          | 32                    | 20/1    | RCPT (AFCI) - UNIT 133 BEDROOM  | 0.9      |      |        |
| 33                           | 15/2    | PTHP1 - UNIT 133         |                       | 1.05 |          | 34                    | 20/1    | RCPT (AFCI) - UNIT 133 KITCHEN  |          | 0.4  |        |
| 35                           |         |                          |                       |      | 1.05     | 36                    | 20/1    | RCPT - UNIT 133 TOILET          |          |      | 0.2    |
| 37                           | 20/1    | FRIDGE (AFCI) - UNIT 135 | 0.9                   |      |          | 38                    | 20/1    | RCPT (AFCI) - UNIT 135 BEDROOM  | 0.9      |      |        |
| 39                           | 15/2    | PTHP1 - UNIT 135         |                       | 1.05 |          | 40                    | 20/1    | RCPT (AFCI) - UNIT 135 KITCHEN  |          | 0.36 |        |
| 41                           |         |                          |                       |      | 1.05     | 42                    | 20/1    | RCPT - UNIT 135 TOILET          |          |      | 0.18   |
| 43                           | 20/1    | RCPT - BISTRO 111        | 0.36                  |      |          | 44                    | 20/1    | RCPT - LOUNGE 110               | 0.36     |      |        |
| 45                           | 20/1    | RCPT - BISTRO 111        |                       | 0.36 |          | 46                    | 20/1    | RCPT - OFFICE 116               |          | 0.72 |        |
| 47                           | 20/1    | RCPT - N.W. CORRIDOR 134 |                       | 0.72 |          | 48                    | 20/1    | RCPT - DIRECTOR 118             |          | 0.54 |        |
| 49                           | 20/1    | RCPT - S.W. CORRIDOR 134 |                       | 0.72 |          | 50                    | 20/1    | RCPT - E. EXTERIOR              |          | 0.54 |        |
| 51                           | 15/2    | SPARE                    |                       | 0    |          | 52                    | 20/1    | RCPT (GFCI) - DRINKING FOUNTAIN |          | 1.5  |        |
| 53                           |         |                          |                       |      | 0        | 54                    | 20/1    | RCPT - LAUNDRY 112              |          | 0.54 |        |
| 55                           | 15/2    | SPARE                    |                       | 0    |          | 56                    | 20/1    | WASHER (GFCI) - LAUNDRY 112     |          | 1.5  |        |
| 57                           |         |                          |                       |      | 0        | 58                    | 30/2    | DRYER (GFCI) - LAUNDRY 112      |          | 2.5  |        |
| 59                           | 20/1    | SPARE                    |                       | 0    |          | 60                    |         |                                 |          | 2.5  |        |
| TOTAL CONNECTED KVA BY PHASE |         |                          |                       |      |          |                       |         |                                 | 15.4     | 15   | 13.1   |
| ELECTRIC DRYER               |         |                          | 5                     | 5    | (100%)   | NONCONTINUOUS         |         |                                 | 3        | 3    | (100%) |
| RECEPTACLES                  |         |                          | 20.8                  | 15.4 | (50%*10) | HEATING               |         |                                 | 14.7     | 14.7 | (100%) |
|                              |         |                          |                       |      |          | TOTAL LOAD            |         |                                 | 38.1     |      |        |
|                              |         |                          |                       |      |          | BALANCED 3-PHASE LOAD |         |                                 | 106      | A    |        |

(GFCI) = PROVIDE GFCI BREAKER

(AFCI) = PROVIDE AFCI PROTECTION IF REQUIRED BY AHJ

| PPMB             |         |                     |                       |      |      |               |         |                     |          |      |       |
|------------------|---------|---------------------|-----------------------|------|------|---------------|---------|---------------------|----------|------|-------|
| ROOM STORAGE 193 |         |                     | VOLTS 208Y/120V 3P 4W |      |      | AIC 42,000    |         |                     |          |      |       |
| MOUNTING SURFACE |         |                     | BUS AMPS 225          |      |      | MAIN BKR MLO  |         |                     |          |      |       |
| FED FROM GPDP    |         |                     | NEUTRAL 100%          |      |      | LUGS STANDARD |         |                     |          |      |       |
| NOTE             |         |                     |                       |      |      |               |         |                     |          |      |       |
| CKT #            | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA              |      |      | CKT #         | CKT BKR | CIRCUIT DESCRIPTION | LOAD KVA |      |       |
|                  |         |                     | A                     | B    | C    |               |         |                     | A        | B    | C     |
| 1                | 60/2    | AIR HANDLER 1       | 4.41                  |      |      | 2             | 60/2    | HEAT PUMP 1         | 3.08     |      |       |
| 3                |         |                     |                       | 4.41 |      | 4             |         |                     |          | 3.08 |       |
| 5                | 25/2    | AIR HANDLER 2       |                       | 2.08 |      | 6             | 25/2    | HEAT PUMP 2         |          | 1.25 |       |
| 7                |         |                     |                       |      | 2.08 | 8             |         |                     |          |      | 1.25  |
| 9                | 25/2    | AIR HANDLER 3       |                       | 2.08 |      | 10            | 25/2    | HEAT PUMP 3         |          | 1.25 |       |
| 11               |         |                     |                       |      | 2.08 | 12            |         |                     |          |      | 1.25  |
| 13               | 25/2    | AIR HANDLER 4       |                       | 2.08 |      | 14            | 25/2    | HEAT PUMP 4         |          | 1.25 |       |
| 15               |         |                     |                       |      | 2.08 | 16            |         |                     |          | 1.25 |       |
| 17               | 15/2    | ENERGY RECOVERY 2   |                       |      | 1.04 | 18            | 20/1    | EXHAUST FAN         |          |      | 0.424 |
| 19               |         |                     |                       |      | 1.04 | 20            | 20/1    | SPACE               |          | 0    |       |
| 21               | 15/2    | ENERGY RECOVERY 3   |                       |      | 1.04 | 22            | 20/1    | SPACE               |          | 0    |       |
| 23               |         |                     |                       |      | 1.04 | 24            | 20/1    | SPACE               |          | 0    |       |
| 25               | 15/2    | ENERGY RECOVERY 4   |                       |      | 1.04 | 26            | 20/1    | SPACE               |          | 0    |       |
| 27               |         |                     |                       |      | 1.04 | 28            | 20/1    | SPACE               |          | 0    |       |
| 29               | 20/1    | SPACE               |                       |      | 0    | 30            | 20/1    | SPACE               |          | 0    |       |
| 31               | 20/1    | SPACE               |                       |      | 0    | 32            | 20/1    | SPACE               |          | 0    |       |
| 33               | 2       |                     |                       |      |      |               |         |                     |          |      |       |



| LPC1                |         |                          |                              |      |      |                       |         |                                    |                    |      |      |
|---------------------|---------|--------------------------|------------------------------|------|------|-----------------------|---------|------------------------------------|--------------------|------|------|
| ROOM ELECTRICAL 169 |         |                          | VOLTS 208Y/120V 3P 4W        |      |      | AIC 42,000            |         |                                    |                    |      |      |
| MOUNTING SURFACE    |         |                          | BUS AMPS 225                 |      |      | MAIN BKR MLO          |         |                                    |                    |      |      |
| FED FROM MSB        |         |                          | NEUTRAL 100%                 |      |      | LUGS STANDARD         |         |                                    |                    |      |      |
| NOTE                |         |                          |                              |      |      |                       |         |                                    |                    |      |      |
| CKT #               | CKT BKR | CIRCUIT DESCRIPTION      | LOAD KVA                     |      |      | CKT #                 | CKT BKR | CIRCUIT DESCRIPTION                | LOAD KVA           |      |      |
|                     |         |                          | A                            | B    | C    |                       |         |                                    | A                  | B    | C    |
| 1                   | 20/1    | FRIDGE (AFCI) - UNIT 187 | 0.9                          |      |      | 2                     | 20/1    | RCPT (AFCI) - UNIT 187 COMMON AREA | 0.36               |      |      |
| 3                   | 15/2    | PTHP1 - UNIT 187A        |                              | 1.05 |      | 4                     | 20/1    | RCPT (AFCI) - UNIT 187 KITCHEN     |                    | 0.54 |      |
| 5                   |         |                          |                              |      |      | 6                     | 20/1    | RCPT - UNIT 187 TOILET             |                    |      | 0.2  |
| 7                   | 15/2    | PTHP1 - UNIT 187B        | 1.05                         |      | 1.05 | 8                     | 20/1    | RCPT (AFCI) - UNIT 187A BEDROOM    | 0.9                |      |      |
| 9                   |         |                          |                              | 1.05 |      | 10                    | 20/1    | RCPT (AFCI) - UNIT 187B BEDROOM    |                    | 0.9  |      |
| 11                  | 20/1    | FRIDGE (AFCI) - UNIT 185 |                              | 0.9  | 1.2  | 12                    | 20/1    | RCPT (AFCI) - UNIT 185 COMMON AREA |                    |      | 0.36 |
| 13                  | 15/2    | PTHP1 - UNIT 185A        |                              | 1.05 |      | 14                    | 20/1    | RCPT (AFCI) - UNIT 185 KITCHEN     | 0.54               |      |      |
| 15                  |         |                          |                              | 1.05 |      | 16                    | 20/1    | RCPT - UNIT 185 TOILET             |                    | 0.18 |      |
| 17                  | 15/2    | PTHP1 - UNIT 185B        |                              | 1.05 | 1.05 | 18                    | 20/1    | RCPT (AFCI) - UNIT 185A BEDROOM    |                    |      | 0.9  |
| 19                  |         |                          |                              | 1.05 |      | 20                    | 20/1    | RCPT (AFCI) - UNIT 185B BEDROOM    | 0.9                |      |      |
| 21                  | 20/1    | FRIDGE (AFCI) - UNIT 183 |                              | 0.9  |      | 22                    | 20/1    | RCPT (AFCI) - UNIT 183 BEDROOM     |                    | 0.9  |      |
| 23                  | 15/2    | PTHP1 - UNIT 183         |                              | 1.05 | 1.05 | 24                    | 20/1    | RCPT (AFCI) - UNIT 183 KITCHEN     |                    |      | 0.54 |
| 25                  |         |                          |                              | 1.05 |      | 26                    | 20/1    | RCPT - UNIT 183 TOILET             | 0.18               |      |      |
| 27                  | 20/1    | FRIDGE (AFCI) - UNIT 188 |                              | 0.9  |      | 28                    | 20/1    | RCPT (AFCI) - UNIT 188 BEDROOM     |                    | 0.9  |      |
| 29                  | 15/2    | PTHP1 - UNIT 188         |                              | 1.05 | 1.05 | 30                    | 20/1    | RCPT (AFCI) - UNIT 188 KITCHEN     |                    |      | 0.36 |
| 31                  |         |                          |                              | 1.05 |      | 32                    | 20/1    | RCPT - UNIT 188 TOILET             | 0.18               |      |      |
| 33                  | 20/1    | FRIDGE (AFCI) - UNIT 186 |                              | 0.9  |      | 34                    | 20/1    | RCPT (AFCI) - UNIT 186 BEDROOM     |                    | 0.9  |      |
| 35                  | 15/2    | PTHP1 - UNIT 186         |                              | 1.05 | 1.05 | 36                    | 20/1    | RCPT (AFCI) - UNIT 186 KITCHEN     |                    |      | 0.36 |
| 37                  |         |                          |                              | 1.05 |      | 38                    | 20/1    | RCPT - UNIT 186 TOILET             | 0.18               |      |      |
| 39                  | 20/1    | FRIDGE (AFCI) - UNIT 184 |                              | 0.9  |      | 40                    | 20/1    | RCPT (AFCI) - UNIT 184 BEDROOM     |                    | 0.9  |      |
| 41                  | 15/2    | PTHP1 - UNIT 184         |                              | 1.05 | 1.05 | 42                    | 20/1    | RCPT (AFCI) - UNIT 184 KITCHEN     |                    |      | 0.36 |
| 43                  |         |                          |                              | 1.05 |      | 44                    | 20/1    | RCPT - UNIT 184 TOILET             | 0.2                |      |      |
| 45                  | 20/1    | FRIDGE (AFCI) - UNIT 182 |                              | 0.9  |      | 46                    | 20/1    | RCPT (AFCI) - UNIT 182 BEDROOM     |                    | 0.9  |      |
| 47                  | 15/2    | PTHP1 - UNIT 182         |                              | 1.05 | 1.05 | 48                    | 20/1    | RCPT (AFCI) - UNIT 182 KITCHEN     |                    |      | 0.36 |
| 49                  |         |                          |                              | 1.05 |      | 50                    | 20/1    | RCPT - UNIT 182 TOILET             | 0.2                |      |      |
| 51                  | 15/2    | SPARE                    |                              | 0    |      | 52                    | 20/1    | SPARE                              |                    | 0    | 0    |
| 53                  |         |                          |                              | 0    |      | 54                    | 20/1    | SPARE                              |                    | 0    | 0    |
| 55                  | 15/2    | SPARE                    |                              | 0    |      | 56                    | 20/1    | SPARE                              |                    | 0    | 0    |
| 57                  |         |                          |                              | 0    |      | 58                    | 20/1    | SPARE                              |                    | 0    | 0    |
| 59                  | 20/1    | SPACE                    |                              |      |      | 60                    | 20/1    | SPACE                              |                    |      |      |
|                     |         |                          | TOTAL CONNECTED KVA BY PHASE |      |      |                       |         |                                    | 12.9 13.8 11.7     |      |      |
|                     |         |                          | CONN KVA CALC KVA            |      |      |                       |         |                                    | CONN KVA CALC KVA  |      |      |
| LARGEST MOTOR       |         |                          | 2.1 0.525 (25%)              |      |      | RECEPTACLES HEATING   |         |                                    | 19.5 14.8 (50%>10) |      |      |
| MOTORS              |         |                          | 4.2 4.2 (100%)               |      |      | TOTAL LOAD            |         |                                    | 34.2 (100%)        |      |      |
|                     |         |                          |                              |      |      | BALANCED 3-PHASE LOAD |         |                                    | 94.9 A             |      |      |

(AFCI) = PROVIDE AFCI PROTECTION IF REQUIRED BY AHJ

| LPD1             |         |                          |                              |       |      |                       |         |                                |                    |      |      |
|------------------|---------|--------------------------|------------------------------|-------|------|-----------------------|---------|--------------------------------|--------------------|------|------|
| ROOM STORAGE 155 |         |                          | VOLTS 208Y/120V 3P 4W        |       |      | AIC 22,000            |         |                                |                    |      |      |
| MOUNTING SURFACE |         |                          | BUS AMPS 225                 |       |      | MAIN BKR MLO          |         |                                |                    |      |      |
| FED FROM MSB     |         |                          | NEUTRAL 100%                 |       |      | LUGS STANDARD         |         |                                |                    |      |      |
| NOTE             |         |                          |                              |       |      |                       |         |                                |                    |      |      |
| CKT #            | CKT BKR | CIRCUIT DESCRIPTION      | LOAD KVA                     |       |      | CKT #                 | CKT BKR | CIRCUIT DESCRIPTION            | LOAD KVA           |      |      |
|                  |         |                          | A                            | B     | C    |                       |         |                                | A                  | B    | C    |
| 1                | 20/1    | FRIDGE (AFCI) - UNIT 124 | 0.9                          |       |      | 2                     | 20/1    | RCPT (AFCI) - UNIT 124 BEDROOM | 0.9                |      | 0.36 |
| 3                | 15/2    | PTHP1 - UNIT 124         |                              | 1.05  |      | 4                     | 20/1    | RCPT (AFCI) - UNIT 124 KITCHEN |                    |      | 0.18 |
| 5                |         |                          |                              |       |      | 6                     | 20/1    | RCPT - UNIT 124 TOILET         | 0.9                |      |      |
| 7                | 20/1    | FRIDGE (AFCI) - UNIT 126 |                              | 0.9   |      | 8                     | 20/1    | RCPT (AFCI) - UNIT 126 BEDROOM |                    | 0.36 |      |
| 9                | 15/2    | PTHP1 - UNIT 126         |                              | 1.05  |      | 10                    | 20/1    | RCPT (AFCI) - UNIT 126 KITCHEN |                    |      | 0.18 |
| 11               |         |                          |                              | 1.05  |      | 12                    | 20/1    | RCPT - UNIT 126 TOILET         | 0.9                |      |      |
| 13               | 20/1    | FRIDGE (AFCI) - UNIT 128 |                              | 0.9   |      | 14                    | 20/1    | RCPT (AFCI) - UNIT 128 BEDROOM |                    | 0.36 |      |
| 15               | 15/2    | PTHP1 - UNIT 128         |                              | 1.05  |      | 16                    | 20/1    | RCPT (AFCI) - UNIT 128 KITCHEN |                    |      | 0.18 |
| 17               |         |                          |                              | 1.05  |      | 18                    | 20/1    | RCPT - UNIT 128 TOILET         | 0.9                |      |      |
| 19               | 20/1    | FRIDGE (AFCI) - UNIT 130 |                              | 0.9   |      | 20                    | 20/1    | RCPT (AFCI) - UNIT 130 BEDROOM |                    | 0.36 |      |
| 21               | 15/2    | PTHP1 - UNIT 130         |                              | 1.05  |      | 22                    | 20/1    | RCPT (AFCI) - UNIT 130 KITCHEN |                    |      | 0.18 |
| 23               |         |                          |                              | 1.05  |      | 24                    | 20/1    | RCPT - UNIT 130 TOILET         | 0.9                |      |      |
| 25               | 20/1    | FRIDGE (AFCI) - UNIT 132 |                              | 0.9   |      | 26                    | 20/1    | RCPT (AFCI) - UNIT 132 BEDROOM |                    | 0.9  |      |
| 27               | 15/2    | PTHP1 - UNIT 132         |                              | 1.05  |      | 28                    | 20/1    | RCPT (AFCI) - UNIT 132 KITCHEN |                    |      | 0.18 |
| 29               |         |                          |                              | 1.05  |      | 30                    | 20/1    | RCPT - UNIT 132 TOILET         | 0.9                |      |      |
| 31               | 20/1    | FRIDGE (AFCI) - UNIT 136 |                              | 0     |      | 32                    | 20/1    | RCPT (AFCI) - UNIT 136 BEDROOM |                    | 0.9  |      |
| 33               | 15/2    | PTHP1 - UNIT 136         |                              | 1.05  |      | 34                    | 20/1    | RCPT (AFCI) - UNIT 136 KITCHEN |                    |      | 0.36 |
| 35               |         |                          |                              | 1.05  |      | 36                    | 20/1    | RCPT - UNIT 136 TOILET         | 0.9                |      | 0.2  |
| 37               | 20/1    | FRIDGE (AFCI) - UNIT 137 |                              | 0.9   |      | 38                    | 20/1    | RCPT (AFCI) - UNIT 137 BEDROOM |                    | 0.9  |      |
| 39               | 15/2    | PTHP1 - UNIT 137         |                              | 1.05  |      | 40                    | 20/1    | RCPT (AFCI) - UNIT 137 KITCHEN |                    |      | 0.36 |
| 41               |         |                          |                              | 1.05  |      | 42                    | 20/1    | RCPT - UNIT 137 TOILET         | 0.9                |      | 0.2  |
| 43               | 20/1    | RCPT - S. CORRIDOR 151   | 0.54                         |       |      | 44                    | 20/1    | RCPT - S. COURTYARD            | 0.72               |      |      |
| 45               | 20/1    | RCPT - E. CORRIDOR 152   |                              | 0.54  |      | 46                    | 20/1    | RCPT - S. COURTYARD            |                    | 0.36 |      |
| 47               | 20/1    | RCPT - S. COURTYARD      |                              |       | 0.72 | 48                    | 20/1    | SPARE                          |                    |      | 0    |
| 49               | 20/1    | LIGHT - SITE POLE        | 0.932                        |       |      | 50                    | 20/1    | SPARE                          |                    |      | 0    |
| 51               | 20/1    | LIGHT - SITE POLE        |                              | 0.932 |      | 52                    | 20/1    | SPARE                          |                    | 0    | 0    |
| 53               | 15/2    | SPARE                    |                              | 0     |      | 54                    | 20/1    | SPARE                          |                    | 0    | 0    |
| 55               |         |                          |                              | 0     |      | 56                    | 20/1    | SPARE                          |                    | 0    | 0    |
| 57               | 20/1    | SPACE                    |                              |       |      | 58                    | 20/1    | SPACE                          |                    |      |      |
| 59               | 20/1    | SPACE                    |                              |       |      | 60                    | 20/1    | SPACE                          |                    |      |      |
|                  |         |                          | TOTAL CONNECTED KVA BY PHASE |       |      |                       |         |                                | 13.9 11.7 9.37     |      |      |
|                  |         |                          | CONN KVA CALC KVA            |       |      |                       |         |                                | CONN KVA CALC KVA  |      |      |
| LIGHTING         |         |                          | 1.86 2.33 (125%)             |       |      | RECEPTACLES HEATING   |         |                                | 18.4 14.2 (50%>10) |      |      |
|                  |         |                          |                              |       |      | TOTAL LOAD            |         |                                | 31.2 (100%)        |      |      |
|                  |         |                          |                              |       |      | BALANCED 3-PHASE LOAD |         |                                | 86.7 A             |      |      |

(AFCI) = PROVIDE AFCI PROTECTION IF REQUIRED BY AHJ

| LPC2                |         |   |                              |      |      |                           |         |                        |                   |      |      |
|---------------------|---------|---|------------------------------|------|------|---------------------------|---------|------------------------|-------------------|------|------|
| ROOM ELECTRICAL 169 |         |   | VOLTS 208Y/120V 3P 4W        |      |      | AIC 42,000                |         |                        |                   |      |      |
| MOUNTING SURFACE    |         |   | BUS AMPS 225                 |      |      | MAIN BKR MLO              |         |                        |                   |      |      |
| FED FROM MSB        |         |   | NEUTRAL 100%                 |      |      | LUGS STANDARD             |         |                        |                   |      |      |
| NOTE                |         |   |                              |      |      |                           |         |                        |                   |      |      |
| CKT #               | CKT BKR | CIRCUIT DESCRIPTION                     | LOAD KVA                     |      |      | CKT #                     | CKT BKR | CIRCUIT DESCRIPTION    | LOAD KVA          |      |      |
|                     |         |   | A                            | B    | C    |                           |         |                        | A                 | B    | C    |
| 1                   | 20/1    | RCPT - STORAGE 170                      | 1.08                         |      |      | 4                         | 20/1    | RCPT - CARE BASE 176   | 0.36              |      |      |
| 3                   | 20/1    | RCPT - LAUNDRY 172                      |                              | 0.54 |      | 6                         | 20/1    | RCPT - CARE BASE 176   |                   | 0.36 | 0.36 |
| 5                   | 20/1    | RCPT - LAUNDRY 172                      |                              |      | 0.72 | 8                         | 20/1    | RCPT - CARE BASE 176   |                   |      | 0.36 |
| 7                   | 20/1    | RCPT - SOILED HOLD 173                  | 0.36                         |      |      | 10                        | 20/1    | RCPT - E. CORRIDOR 191 | 0.54              |      |      |
| 9                   | 20/1    | RCPT - STAFF LOUNGE 174                 |                              | 0.54 |      | 12                        | 20/1    | RCPT - E. CORRIDOR 152 |                   | 0.36 |      |
| 11                  | 20/1    | RCPT - STAFF LOUNGE 174                 |                              |      | 0.36 | 14                        | 20/1    | RCPT - E. CORRIDOR 152 |                   |      | 0.54 |
| 13                  | 20/1    | RCPT - TOILET 177, MEDS 178, TOILET 181 | 1.08                         |      |      | 16                        | 20/1    | DISHWASHER - MEDS 178  | 1                 |      |      |
| 15                  | 20/1    | RCPT - E. EXTERIOR                      |                              | 0.72 |      | 18                        | 20/1    | FRIDGE - LOUNGE 174    |                   | 1    |      |
| 17                  | 20/1    | RCPT - BATHING 179                      |                              |      | 0.36 | 20                        | 20/3    | SPARE                  |                   |      | 0    |
| 19                  | 20/1    | RCPT - N. COURTYARD                     | 0.36                         |      |      | 22                        |         |                        |                   | 0    | 0    |
| 21                  | 20/1    | RCPT - N. COURTYARD                     |                              | 0.54 |      | 24                        |         |                        |                   | 0    | 0    |
| 23                  | 20/1    | RCPT - S.E. EXTERIOR                    |                              |      | 0.36 | 26                        | 20/3    | SPARE                  |                   |      | 0    |
| 25                  | 20/1    | RCPT (AFCI) - UNIT 185A BEDROOM         | 0.36                         |      |      | 28                        |         |                        |                   | 0    | 0    |
| 27                  | 20/1    | WHIRLPOOL (GFCI) - BATHING 179          | 2                            |      |      | 30                        | 20/1    | SPARE                  |                   | 0    | 0    |
| 29                  | 20/3    | DRYER - LAUNDRY 172 (NOTE 1)            | 1.08                         |      | 1.08 | 32                        | 20/1    | SPARE                  |                   | 0    | 0    |
| 31                  |         |   | 1.08                         |      | 1.08 | 34                        | 20/1    | SPARE                  |                   | 0    | 0    |
| 33                  |         |   | 1.08                         |      | 1.08 | 36                        | 20/1    | SPACE                  |                   | 0    | 0    |
| 35                  | 20/3    | DRYER - LAUNDRY 172 (NOTE 1)            | 1.08                         |      | 1.08 | 38                        | 20/1    | SPACE                  |                   | 0    | 0    |
| 37                  |         |   | 1.08                         |      | 1.08 | 40                        | 20/1    | SPACE                  |                   | 0    | 0    |
| 39                  |         |   | 1.08                         |      | 1.08 | 42                        | 20/1    | SPACE                  |                   | 0    | 0    |
| 41                  | 20/3    | WASHER - LAUNDRY 172 (NOTE 1)           | 1.08                         |      | 1.08 | 44                        | 20/1    | SPACE                  |                   | 0    | 0    |
| 43                  |         |   | 1.08                         |      | 1.08 | 46                        | 20/1    | SPACE                  |                   | 0    | 0    |
| 45                  |         |   | 1.08                         |      | 1.08 | 48                        | 20/1    | SPACE                  |                   | 0    | 0    |
| 47                  | 20/3    | WASHER - LAUNDRY 172 (NOTE 1)           | 1.08                         |      | 1.08 | 50                        | 20/1    | SPACE                  |                   | 0    | 0    |
| 49                  |         |   | 1.08                         |      | 1.08 | 52                        | 20/1    | SPACE                  |                   | 0    | 0    |
| 51                  |         |   | 1.08                         |      | 1.08 | 54                        | 20/1    | SPACE                  |                   | 0    | 0    |
| 53                  | 20/1    | SPACE                                   |                              |      | 0    |                           |         |                        |                   |      |      |
|                     |         |   | TOTAL CONNECTED KVA BY PHASE |      |      |                           |         |                        | 9.47 10.4 7.03    |      |      |
|                     |         |   | CONN KVA CALC KVA            |      |      |                           |         |                        | CONN KVA CALC KVA |      |      |
| LARGEST MOTOR       |         |   | 3.25 0.813 (25%)             |      |      | RECEPTACLES NONCONTINUOUS |         |                        | 9.9 3 (50%>10)    |      |      |
| MOTORS              |         |   | 13 13 (100%)                 |      |      | TOTAL LOAD                |         |                        | 27.7 (100%)       |      |      |
|                     |         |   |                              |      |      | BALANCED 3-PHASE LOAD     |         |                        | 76.9 A            |      |      |

NOTES:  
1. VERIFY ELECTRICAL REQUIREMENTS OF WASHERS AND DRYERS WITH EQUIPMENT PROVIDER

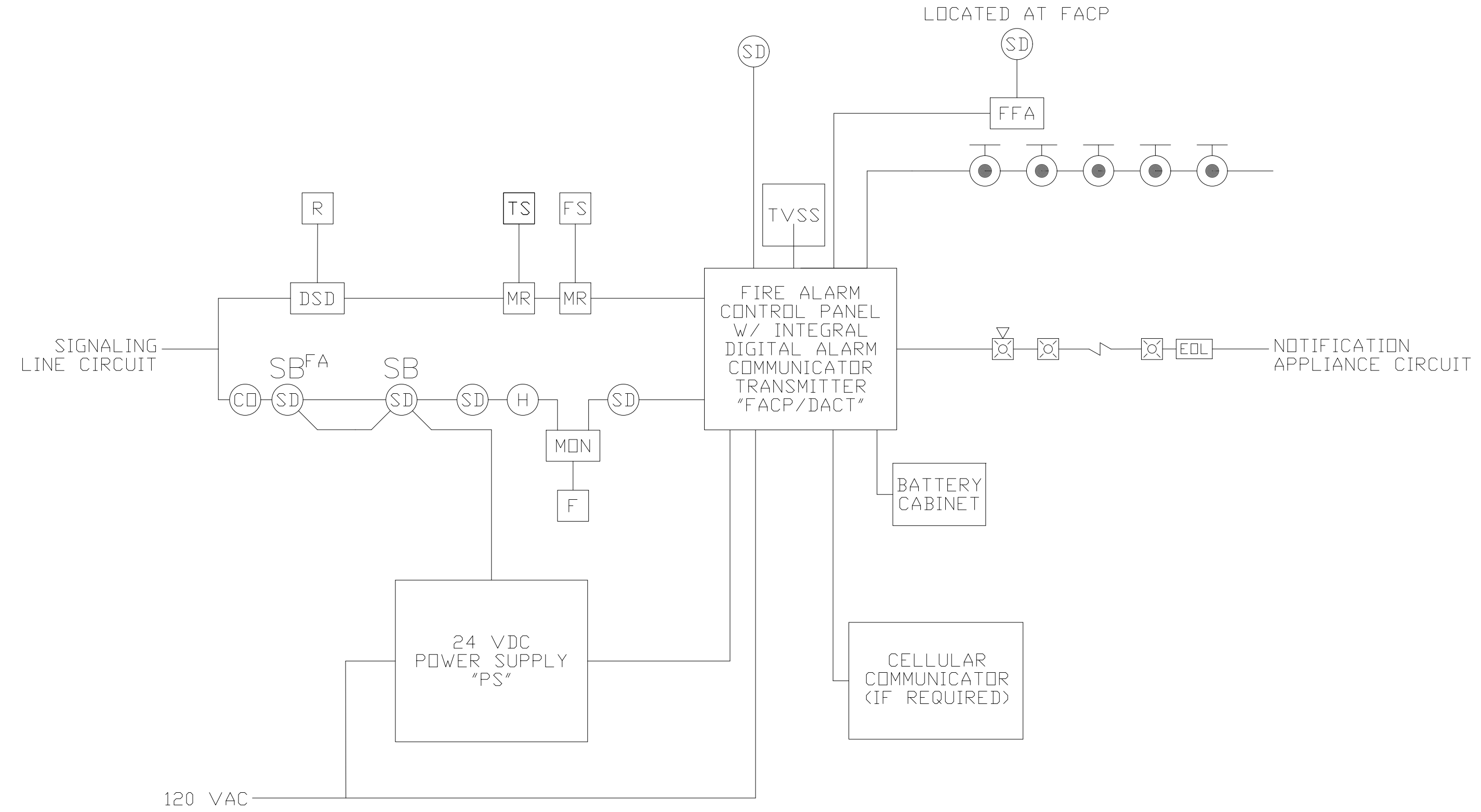
| LPD2             |         |                          |                       |      |   |               |         |                                |          |      |      |
|------------------|---------|--------------------------|-----------------------|------|---|---------------|---------|--------------------------------|----------|------|------|
| ROOM STORAGE 155 |         |                          | VOLTS 208Y/120V 3P 4W |      |   | AIC 22,000    |         |                                |          |      |      |
| MOUNTING SURFACE |         |                          | BUS AMPS 225          |      |   | MAIN BKR MLO  |         |                                |          |      |      |
| FED FROM MSB     |         |                          | NEUTRAL 100%          |      |   | LUGS STANDARD |         |                                |          |      |      |
| NOTE             |         |                          |                       |      |   |               |         |                                |          |      |      |
| CKT #            | CKT BKR | CIRCUIT DESCRIPTION      | LOAD KVA              |      |   | CKT #         | CKT BKR | CIRCUIT DESCRIPTION            | LOAD KVA |      |      |
|                  |         |                          | A                     | B    | C |               |         |                                | A        | B    | C    |
| 1                | 20/1    | FRIDGE (AFCI) - UNIT 138 | 0.9                   |      |   | 2             | 20/1    | RCPT (AFCI) - UNIT 138         | 0.9      |      | 0.36 |
| 3                | 15/2    | PTHP1 - UNIT 138         |                       | 1.05 |   | 4             | 20/1    | RCPT (AFCI) - UNIT 138 KITCHEN |          |      | 0.2  |
| 5                |         |                          |                       |      |   | 6             | 20/1    | RCPT - UNIT 138 TOILET         | 0.9      |      |      |
| 7                | 20/1    | FRIDGE (AFCI) - UNIT 139 |                       | 0.9  |   | 8             | 20/1    | RCPT (AFCI) - UNIT 139 BEDROOM |          | 0.36 |      |
| 9                | 15/2    | PTHP1 - UNIT 139         |                       | 1.05 |   | 10            | 20/1    | RCPT (AFCI) - UNIT 139 KITCHEN |          |      | 0.18 |
| 11               |         |                          |                       | 1.05 |   | 12            | 20/1    | RCPT - UNIT 139 TOILET         | 0.9      |      |      |
| 13               | 20/1    | FRIDGE (AFCI) - UNIT 140 |                       | 0.9  |   | 14            | 20/1    | RCPT (AFCI) - UNIT 140 BEDROOM |          | 0.18 |      |
| 15               | 15/2    | PTHP1 - UNIT 140         |                       | 1.05 |   | 16            | 20/1    | RCPT (AFCI) - UNIT 140 KITCHEN |          |      | 0.36 |
| 17               |         |                          |                       | 1.05 |   | 18            | 20/1    | RCPT - UNIT 140 TOILET         | 0.9      |      |      |
| 19               | 20/1    | FRIDGE (AFCI) - UNIT 150 |                       | 0.9  |   | 20            | 20/1    | RCPT (AFCI) - UNIT 150 BEDROOM |          | 0.36 |      |
| 21               | 15/2    | PTHP1 - UNIT 150         |                       | 1.05 |   | 22            | 20/1    | RCPT (AFCI) - UNIT 150 KITCHEN |          |      | 0.18 |
| 23               |         |                          |                       | 1.05 |   | 24            | 20/1    | RCPT - UNIT 150 TOILET         | 0.9      |      |      |
| 25               | 20/1    | FRIDGE (AFCI) - UNIT 153 |                       | 0.9  |   | 26            | 20/1    |                                |          |      |      |



| FIRE ALARM SCHEDULE            |              |                                     |  |        |
|--------------------------------|--------------|-------------------------------------|--|--------|
| CALLOUT                        | SYMBOL       | NOTE 1                              | NOTE 2   | NOTE 3 |
| ANNUNCIATOR PANEL              | FA           | FIRE LITE - ANN-80                  | MOUNT AT 66" TO CENTER AFF   |        |
| AUDIO VISUAL                   | AV 15 CD     |                                     | MOUNT AT THE LOWER HEIGHT OF 80" AFF OR 6" BELOW CEILING   |        |
| AUDIO VISUAL WP                | AV WP xxx CD |                                     |  |        |
| CO DETECTOR                    | CO           | FIRE LITE - C012/24TR               | MOUNT AT 4" MINIMUM, 12" MAXIMUM BELOW CEILING   |        |
| CONTROL PANEL                  | FA           | FIRE LITE - MS9600UDLS              | MOUNT AT 66" TO CENTER AFF   |        |
| DOOR HOLDER WALL MOUNTED       | HD           |                                     | DOOR HOLDER HEIGHT TO BE COORDINATED WITH DOOR SUPPLIER  |        |
| DUCT SMOKE DETECTOR            | DS           | FIRE LITE - D355PL                  | VERIFY MOUNTING LOCATION WITH MECHANICAL CONTRACTOR AND TO ALLOW FOR MAINTENANCE AND INSPECTION. |        |
| FIRE ALARM RELAY               | FR           |                                     |  |        |
| FLOW SWITCH                    | FS           |                                     |  |        |
| HEAT DETECTOR                  | HD           | FIRE LITE - H355R                   | MOUNT AT 4" MINIMUM, 12" MAXIMUM BELOW CEILING   |        |
| MANUAL ALARM STATION           | MA           | FIRE LITE - BG-12LX                 | MOUNT AT 60" MAXIMUM FROM DOOR, MOUNT AT 44" TO CENTER   |        |
| MONITORING RELAY MODULE        | MR           |                                     |  |        |
| REMOTE INDICATOR TEST STATION  | RI           | MOUNT AT 10" BELOW FINISHED CEILING |  |        |
| SMOKE DETECTOR                 | SD           | FIRE LITE - SD355                   | MOUNT AT 4" MINIMUM, 12" MAXIMUM BELOW CEILING   |        |
| SMOKE DETECTOR W/ SOUNDER BASE | SD SB        |                                     |  |        |
| TAMPER SWITCH                  | TS           |                                     |  |        |
| VISUAL ALARM                   | VA xxx CD    |                                     | MOUNT AT THE LOWER HEIGHT OF 80" AFF OR 6" BELOW CEILING   |        |

FIRE ALARM GENERAL NOTES:

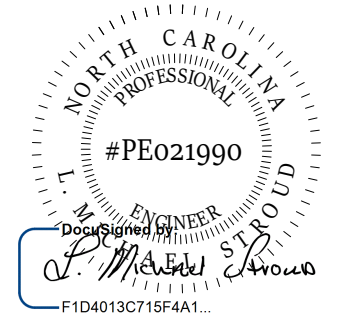
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL DEVICES AND ACCESSORIES REQUIRED TO MEET CODE, NFPA 72 AND TO SATISFY THE AHJ.
- REFER TO FIRE PROTECTION SHOP DRAWINGS FOR QUANTITIES AND LOCATIONS OF SPRINKLER FLOW AND TAMPER SWITCHES.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS TO AHJ FOR APPROVAL PRIOR TO INSTALLATION
- SYSTEM MUST BE FULLY ADDRESSABLE, SYSTEM MUST BE EXPANDABLE TO INCORPORATE ALL DEVICES IN THE COMPLETE BUILDING AT A LATER DATE. SYSTEM SHALL BE FIRE LITE ALARMS APPROVED BY THE OWNER AND ENGINEER.
- PROVIDE CELLULAR COMMUNICATION FOR TRANSMISSION TO CENTRAL STATION FOR FIRE ALARM SYSTEM.
- ALL FIRE ALARM WIRING SHALL BE ENCLOSED IN CONDUIT.
- CONTRACTOR TO PROVIDE INTERLOCK TO SHUT DOWN MECHANICAL UNITS AND EXHAUST FANS.
- CONDUIT FILL SHALL NOT EXCEED 40% AT ANY PORTION OF THE RACEWAY SYSTEM.
- SEE PROJECT SHEET E-201 FOR INFORMATION TO REQUIRED SITE CONNECTIONS FOR MONITORING WATER SERVICE ENTRANCE. LOCATED AT FACP



1 FA001 FIRE ALARM RISER DIAGRAM SCALE: NONE

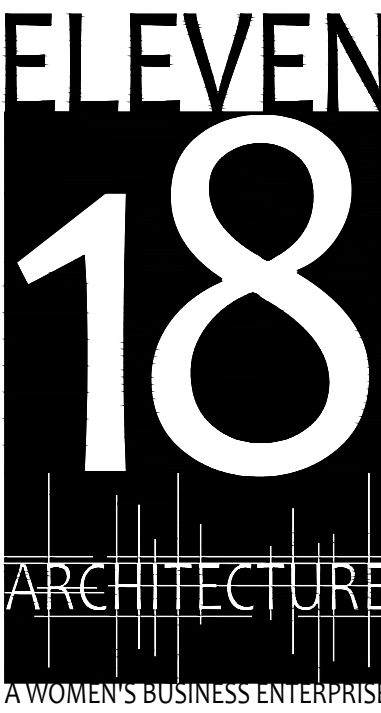
|                                      | FIRE ALARM SYSTEM MATRIX |                        |                            |  |  |  |                       |  |  |  |  |  |                             |                       |                           |  |               |                             |  |  |  |  |  |
|--------------------------------------|--------------------------|------------------------|----------------------------|--|--|--|-----------------------|--|--|--|--|--|-----------------------------|-----------------------|---------------------------|--|---------------|-----------------------------|--|--|--|--|--|
|                                      | CONTROL UNIT ANNUNCIATOR |                        |                            |  |  |  | ALARM NOTIFICATION    |  |  |  |  |  | FIRE SAFETY FUNCTIONS       |                       |                           |  | SUPPLEMENTARY |                             |  |  |  |  |  |
|                                      | ACTUATE ALARM SIGNAL     | ACTUATE TROUBLE SIGNAL | ACTUATE SUPERVISORY SIGNAL |  |  |  | ACTUATE GENERAL ALARM | ACTUATE GENERAL ALARM AFTER TIME DELAY |  |  |  |  | SHUTDOWN AIR HANDLING UNITS | SHUTDOWN MUSIC SYSTEM | RELEASE MAGLOCKS AT DOORS |  |               | ACTUATE REMOTE ANNUNCIATORS | TRANSMIT ALARM SIGNAL TO SUPERVISING STATION | TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION | TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION |  |  |
| MANUAL STATION                       | •                        |                        |                            |  |  |  | •                     |  |  |  |  |  | •                           | •                     |                           |  |               | •                           | •  |  |  |  |  |
| SMOKE DETECTOR - RESIDENT ROOM       | •                        |                        |                            |  |  |  |                       | •                                      |  |  |  |  | •                           | •                     |                           |  |               | •                           | •  |  |  |  |  |
| SMOKE DETECTOR - OTHER               | •                        |                        |                            |  |  |  | •                     |  |  |  |  |  | •                           | •                     |                           |  |               | •                           | •  |  |  |  |  |
| HEAT DETECTOR                        | •                        |                        |                            |  |  |  | •                     |  |  |  |  |  | •                           | •                     |                           |  |               | •                           | •  |  |  |  |  |
| CO DETECTOR                          |                          | •                      |                            |  |  |  |                       |  |  |  |  |  |                             |                       |                           |  |               | •                           | •  | •  | •  |  |  |
| SPRINKLER SYSTEM WATERFLOW           | •                        |                        |                            |  |  |  | •                     |  |  |  |  |  | •                           | •                     |                           |  |               | •                           | •  | •  | •  |  |  |
| RANGE HOOD CHEMICAL RELEASE          | •                        |                        |                            |  |  |  | •                     |  |  |  |  |  | •                           | •                     |                           |  |               | •                           | •  | •  | •  |  |  |
| FIRE ALARM SYSTEM A/C POWER FAILURE  |                          | •                      |                            |  |  |  |                       |  |  |  |  |  |                             |                       |                           |  |               | •                           |  | •  | •  |  |  |
| FIRE ALARM SYSTEM LOW BATTERY        |                          | •                      |                            |  |  |  |                       |  |  |  |  |  |                             |                       |                           |  |               | •                           |  | •  | •  |  |  |
| OPEN CIRCUIT                         |                          | •                      |                            |  |  |  |                       |  |  |  |  |  |                             |                       |                           |  |               | •                           |  | •  | •  |  |  |
| GROUND FAULT                         |                          | •                      |                            |  |  |  |                       |  |  |  |  |  |                             |                       |                           |  |               | •                           |  | •  | •  |  |  |
| NOTIFICATION APPLIANCE SHORT CIRCUIT |                          | •                      |                            |  |  |  |                       |  |  |  |  |  |                             |                       |                           |  |               | •                           |  | •  | •  |  |  |
| SPRINKLER SYSTEM VALVE TAMPER        |                          | •                      | •                          |  |  |  |                       |  |  |  |  |  |                             |                       |                           |  |               | •                           |  | •  | •  |  |  |

STROUD ENGINEERING, P.A.  
 422 HWY 24  
 MOREHEAD CITY, NC 28557  
 (252) 247-7479  
 LICENSE NO. C-0647  
 L. MICHAEL STROUD, P.E.



26 SEPTEMBER, 2022

Matthew A. Conte, AIA  
 NC. REG.#15129



11/19/2020  
 Mailing Address:  
 424 E. Central Blvd., #542  
 Orlando, FL 32801  
 www.eleven18architecture.com  
 Physical Address:  
 1011 E. Colonial Dr., #307  
 Orlando, FL 32803  
 407.285.5300  
 © Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
 All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**

40 RAWLS CLUB RD  
 FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA CONTRACTORS**

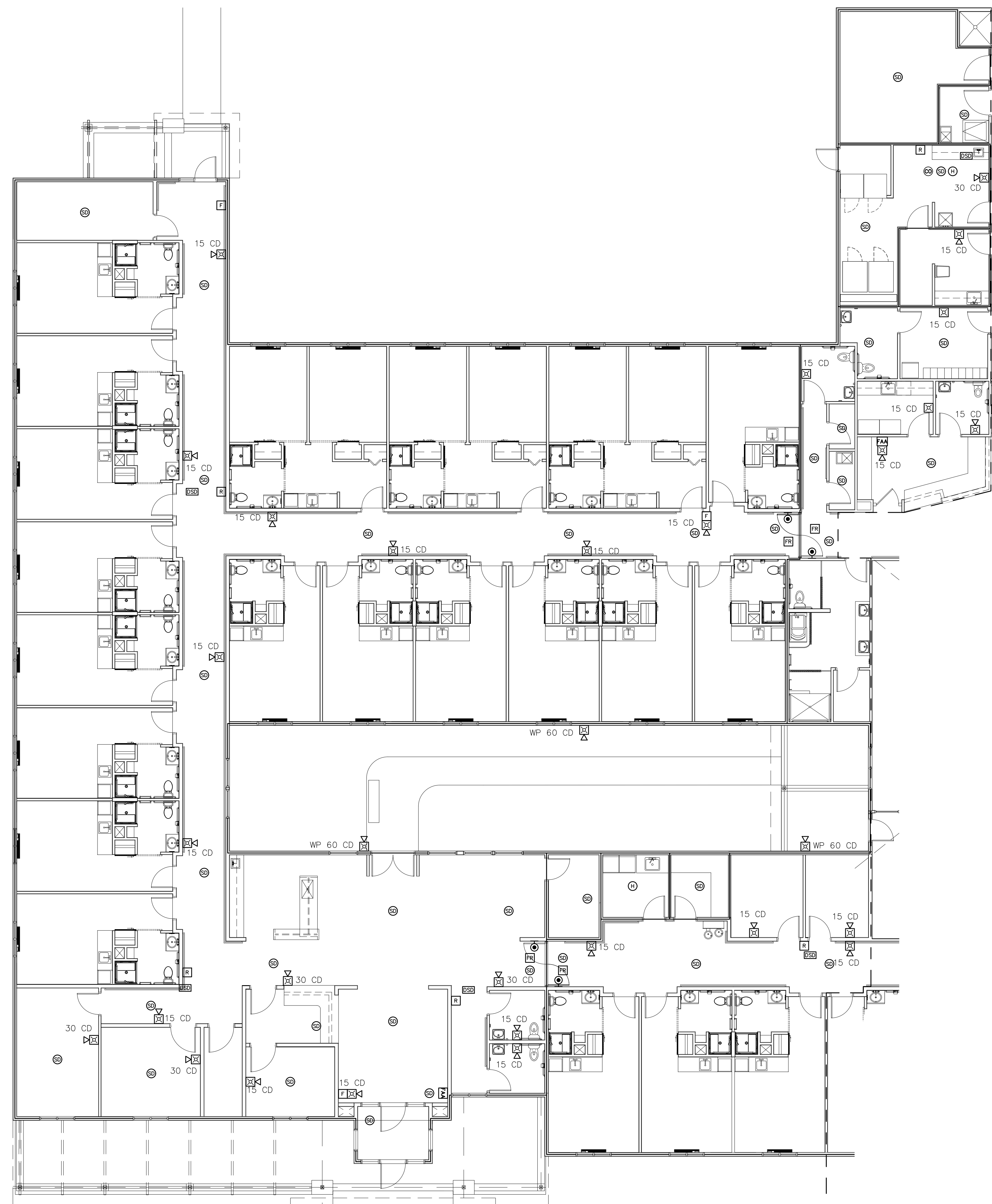
ELEVEN18 PROJECT LEAD:  
 MATTHEW A. CONTE  
 407.745.5301  
 mconte@eleven18architecture.com

PROJECT TEAM:  
 Gabriela Salazar  
 Pamela Friday  
 Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

**FA001**  
 FIRE ALARM COVER



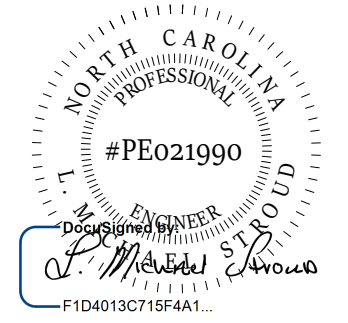


1  
FA101 WEST WING FIRE ALARM PLAN  
SCALE: 1/8"=1'-0"

ELECTRICAL GENERAL NOTES:

1. SEE SHEET FA001 FOR FIRE ALARM NOTES AND ABBREVIATIONS.
2. FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT DETECTORS FOR MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL INSTALL DUCT DETECTORS. FIRE ALARM CONTRACTOR TO WIRE DUCT DETECTORS.
3. FIRE ALARM CONTRACTOR TO REFER TO MECHANICAL DRAWINGS FOR AHU LOCATIONS.

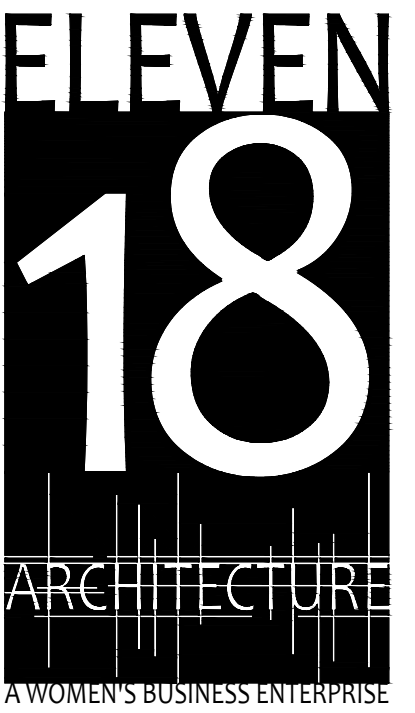
**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRISVILLE, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



**COPYRIGHT STATEMENT**  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.

26 SEPTEMBER,  
2022

Matthew A Conte, AIA  
NC REG.#15129



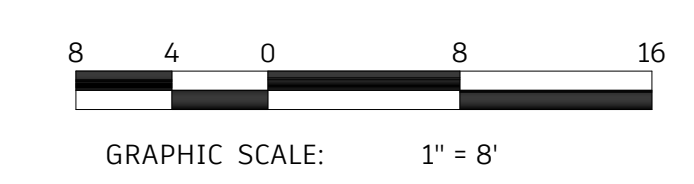
NC License #1919  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.255.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS  
OF  
BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

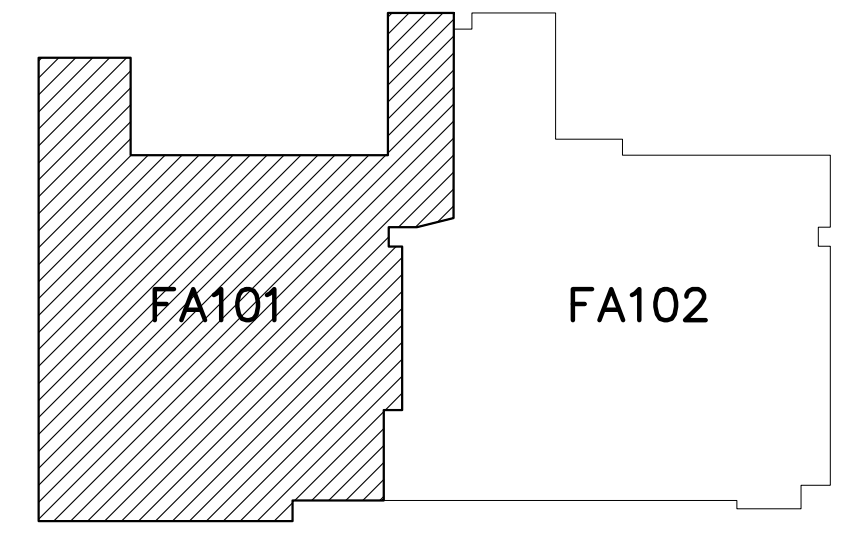
PROJECT CLIENT:  
**CAROLINA  
COMMERCIAL  
CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407.745.5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien



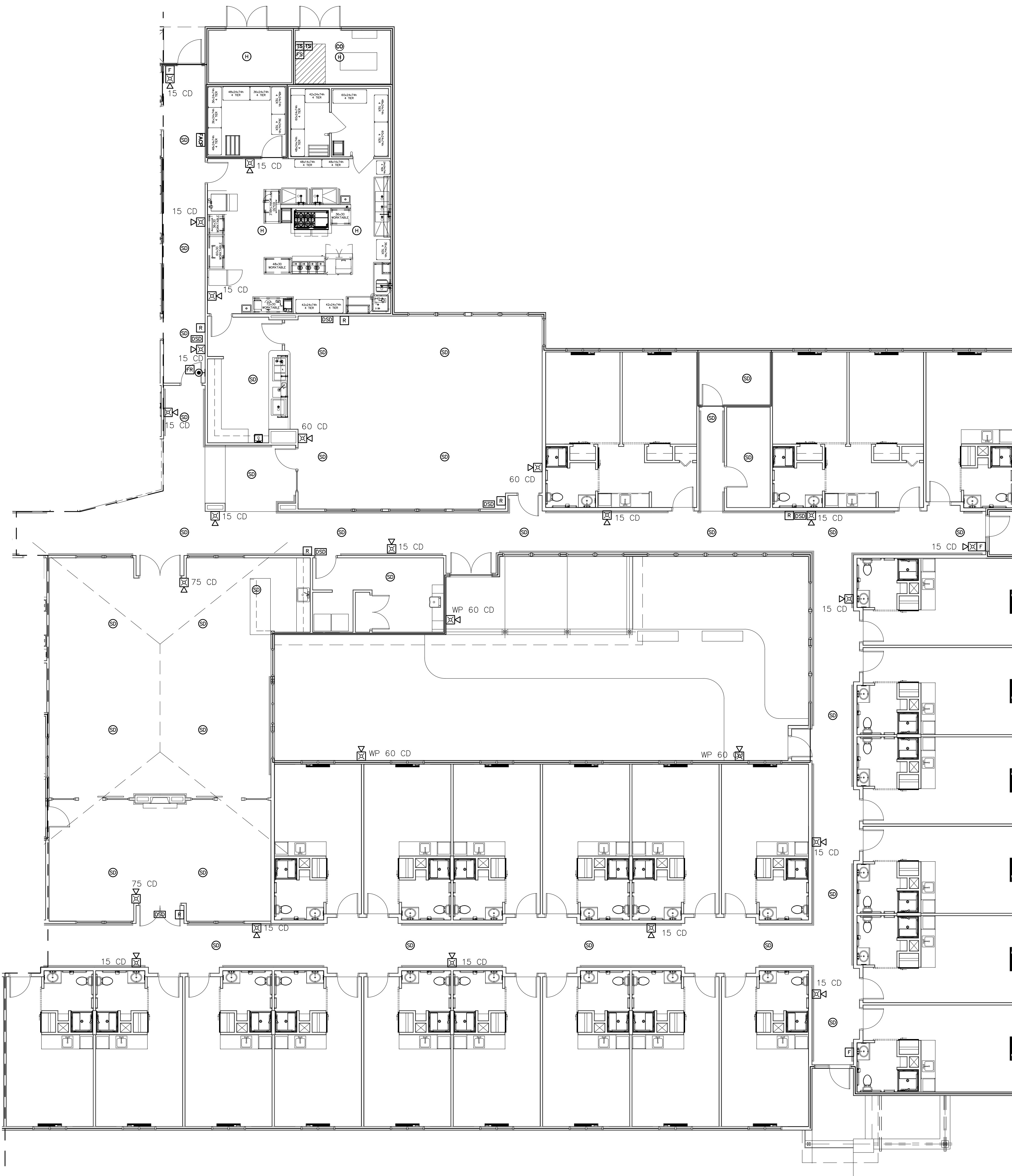
**KEY PLAN**



| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**FA101**  
PARTIAL FIRE  
ALARM PLAN



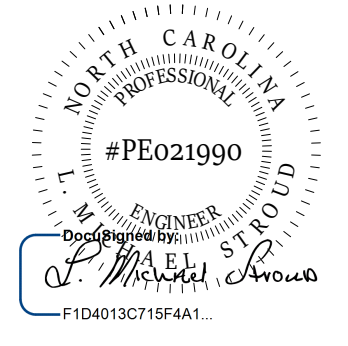


1 EAST WING FIRE ALARM PLAN  
SCALE: 1/8"=1'-0"

ELECTRICAL GENERAL NOTES:

1. SEE SHEET FA001 FOR FIRE ALARM NOTES AND ABBREVIATIONS.
2. FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT DETECTORS FOR MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL INSTALL DUCT DETECTORS. FIRE ALARM CONTRACTOR TO WIRE DUCT DETECTORS.
3. FIRE ALARM CONTRACTOR TO REFER TO MECHANICAL DRAWINGS FOR AHU LOCATIONS.

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRISVILLE, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



L. MICHAEL STROUD, P.E.

26 SEPTEMBER, 2022

Matthew A Conte, AIA  
NC REG.#15129



NC License #1919  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32801  
www.eleven8architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.745.5300  
© Copyright 2020 ELEVEN8 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

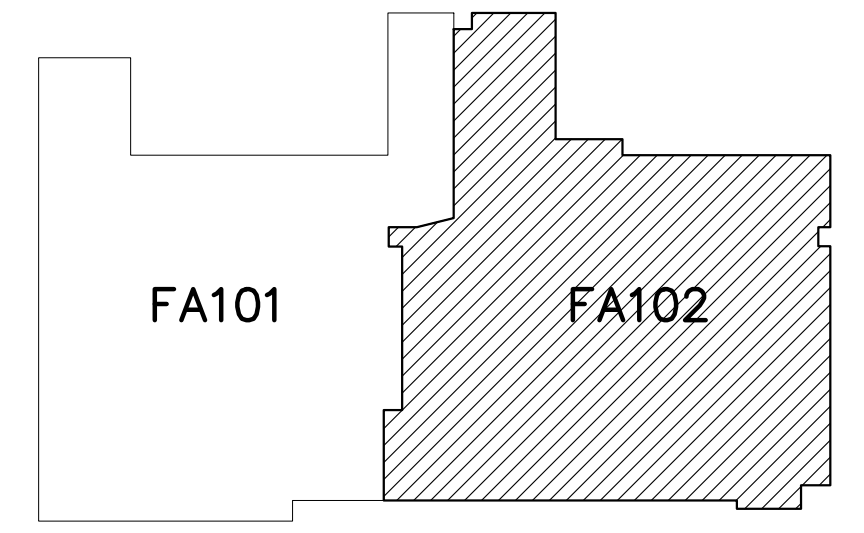
PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN8 PROJECT LEAD:  
MATTHEW A. CONTE  
407-745-5301  
mconte@eleven8architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Famela Friday  
Yuan Ping Lien



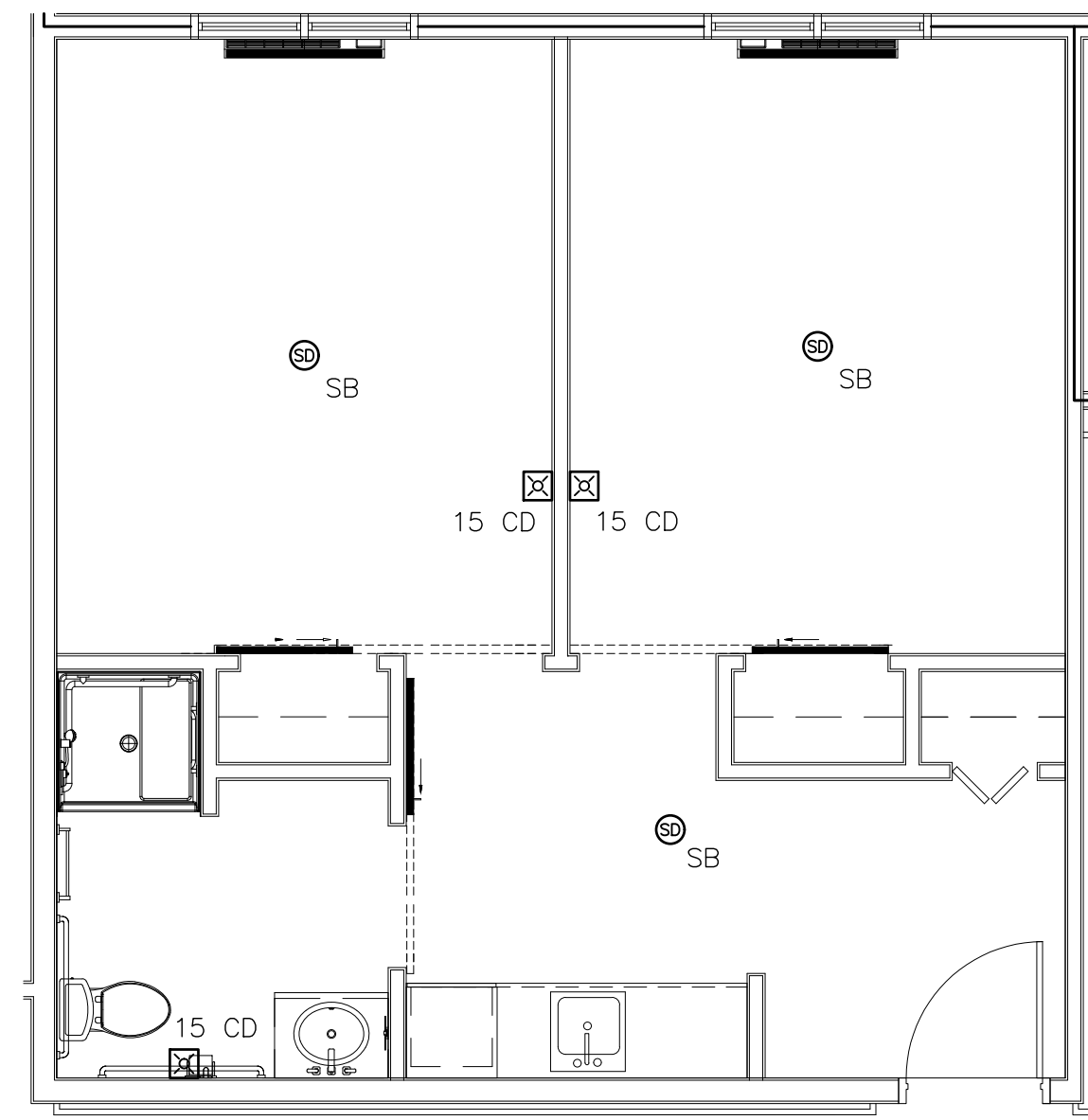
KEY PLAN



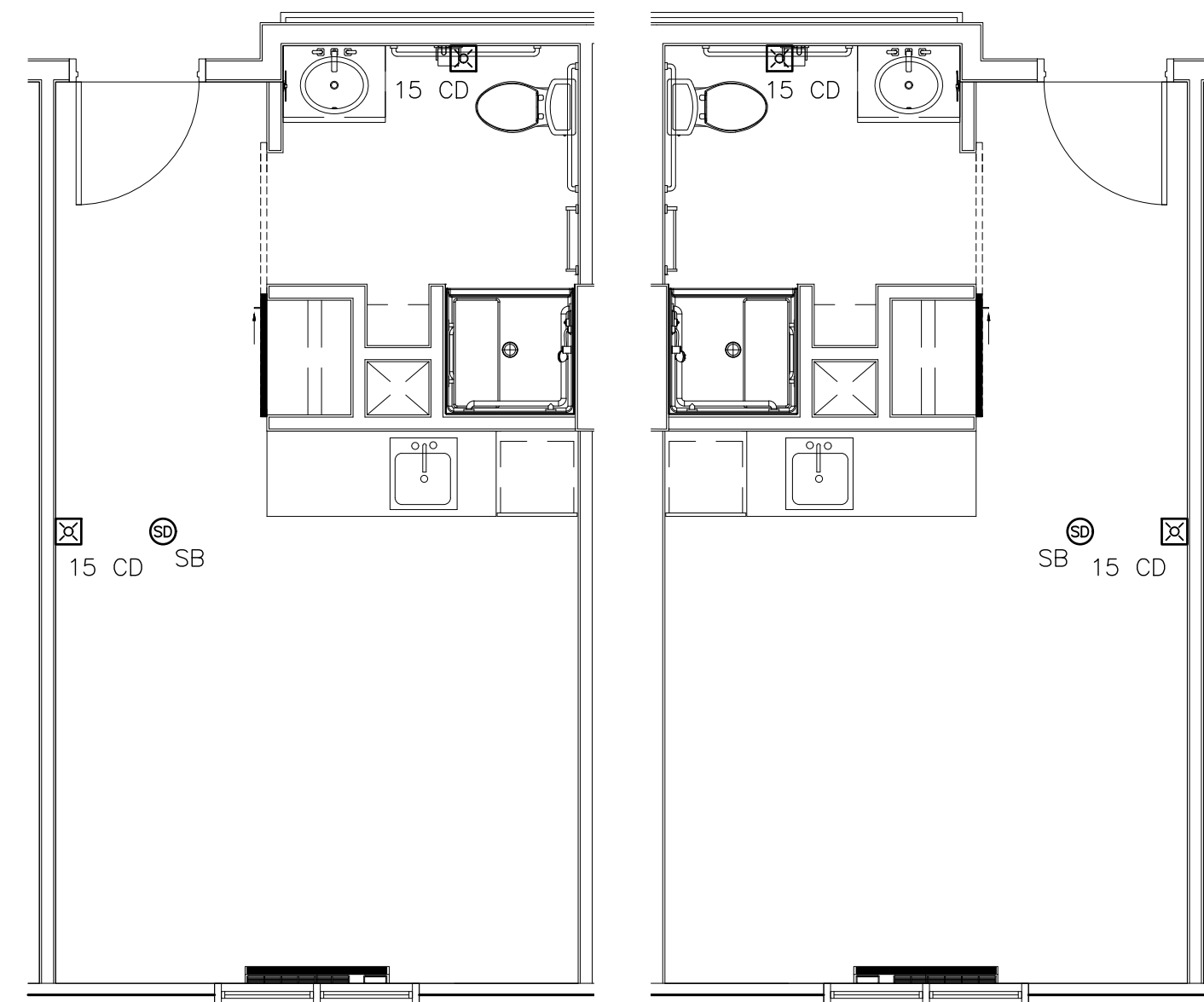
| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**FA102**  
PARTIAL FIRE ALARM PLAN

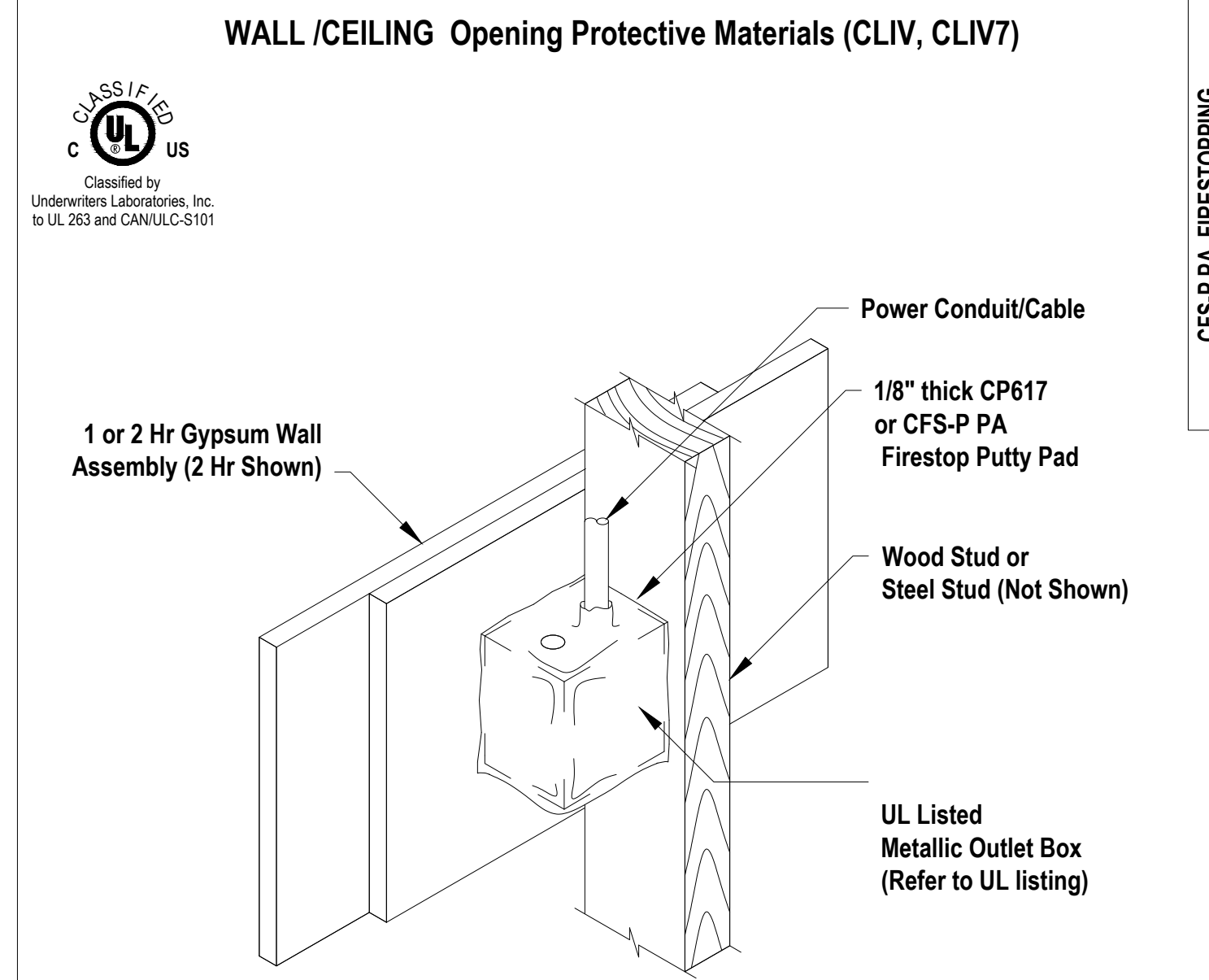




1 UNIT "A" TYPICAL FIRE ALARM PLAN  
SCALE: 1/4"=1'-0"



2 UNIT "B" AND OPPOSITE HAND TYPICAL FIRE ALARM PLAN  
SCALE: 1/4"=1'-0"



WALL/Ceiling Opening Protective Materials (CLIV, CLIV7)

CP 617 or CFS-PA firestop Putty Pads, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in., provided that the boxes are not installed back-to-back (unless otherwise indicated). Installation shall comply with the National Electrical Code (NFPA 70). Min 1/8 in. thick (CP 617) or min 0.2 in. (CFS-P PA) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and conduit fittings/connectors and to completely seal against the stud and gypsum board in the wall cavity unless otherwise noted below. When CFS-P PA is used, the putty pads may be installed with the release liner intact on the outside of the pad with the exception of any overlaps, in which case the liner is to be removed from the bottom layer at the overlap location. The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are specified below.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in., or max 4-3/8 by 4-7/8 by max 2-1/8 in., flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 hr fire rated V446 gypsum board/steel stud or U341 gypsum board/wood stud Wall and Partition Design No. in the Fire Resistance Directory. When U341 wall design is used, wall shall be sheathed with 5/8 in. gypsum board, and glass or mineral fiber batt insulation shall be installed in stud cavities in accordance with U341 design. Boxes may be installed back-to-back.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 and 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 0.8 pcf density fiberglass batt insulation is to be installed within the wall cavity required for 1 hr fire rated gypsum board wall assemblies and optional in 2 hr fire rated gypsum wallboard assemblies.

CP 617 or CFS-P PA Firestop Putty Pads, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies as specified below. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in., provided that the boxes are not installed back-to-back (unless otherwise indicated). Installation shall comply with the National Electrical Code (NFPA 70). Min 1/8 in. thick (CP 617) or min 0.2 in. (CFS-P PA) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and conduit fittings/connectors and to completely seal against the stud and gypsum board in the wall cavity unless otherwise noted below. When CFS-P PA is used, the putty pads may be installed with the release liner intact on the outside of the pad with the exception of any overlaps, in which case the liner is to be removed from the bottom layer at the overlap location. The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are specified below.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in., or max 4-3/8 by 4-7/8 by max 2-1/8 in., flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 hr fire rated V446 gypsum board/steel stud or U341 gypsum board/wood stud Wall and Partition Design No. in the Fire Resistance Directory. When U341 wall design is used, wall shall be sheathed with 5/8 in. gypsum board, and glass or mineral fiber batt insulation shall be installed in stud cavities in accordance with U341 design. Boxes may be installed back-to-back.

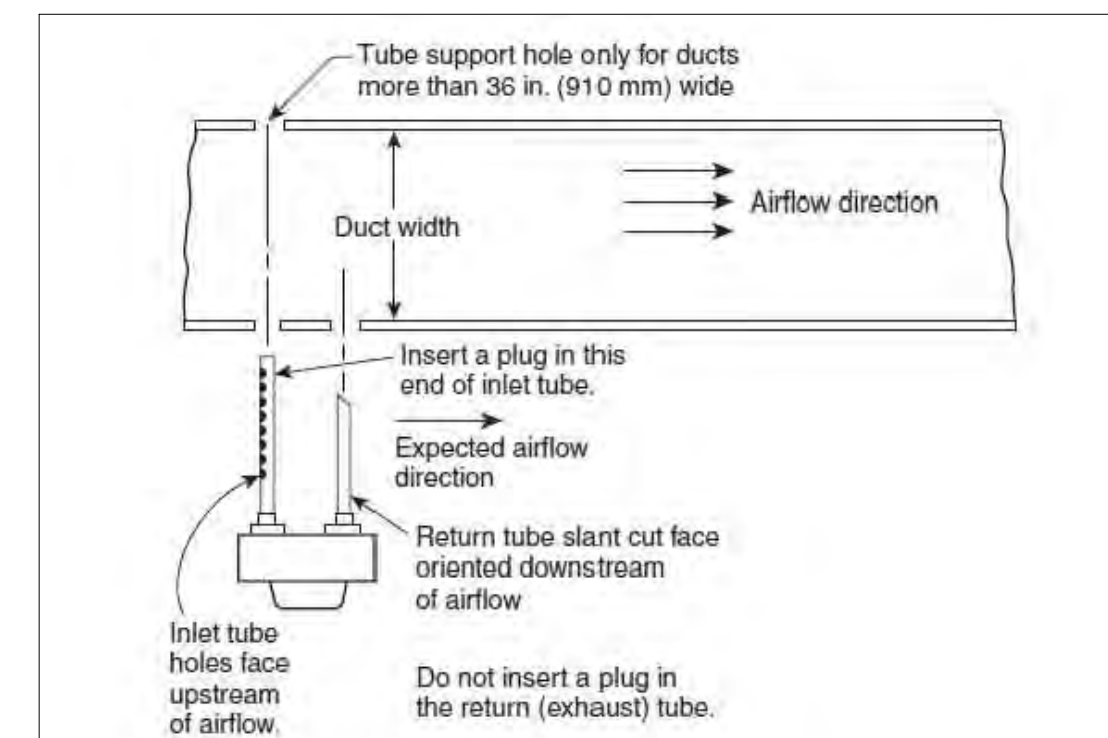
CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 and 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 0.8 pcf density fiberglass batt insulation is to be installed within the wall cavity required for 1 hr fire rated gypsum board wall assemblies and optional in 2 hr fire rated gypsum wallboard assemblies.

Nominal dimensions listed in previous paragraph's also apply to octagon/round boxes and fittings.

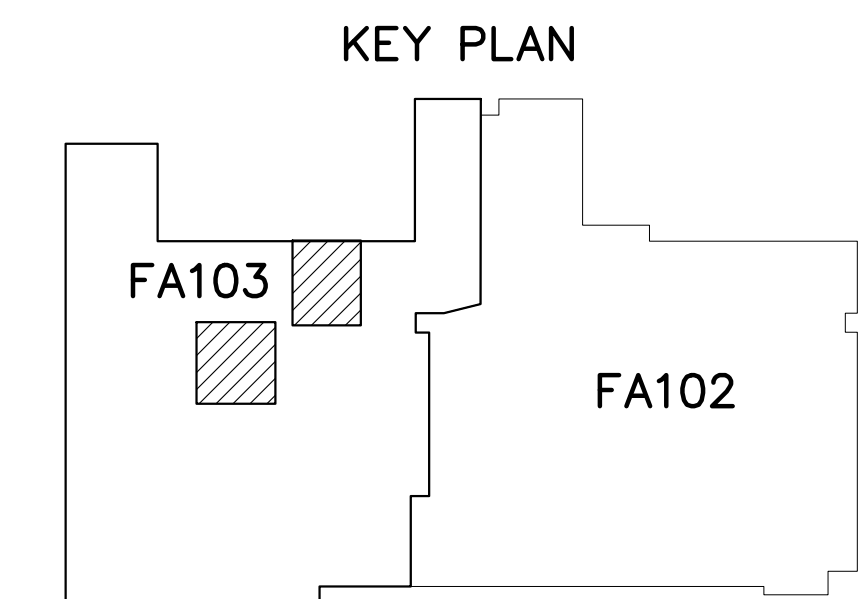
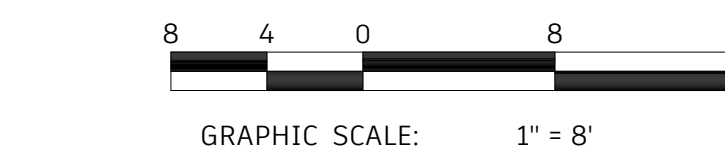
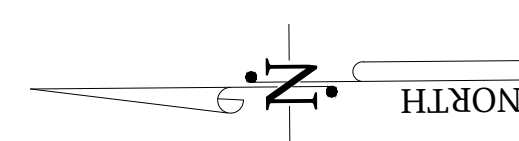
| Fire Rating | Wall Type                                 |
|-------------|---|
| 2 hour      | U300, U400 or V400 - wood or steel studs  |
| 1 hour      | U300, U400, or V400 - wood or steel studs |

\*\* - Min 3/4 in. deep plaster rings installed over outlet box. After installation of gypsum board, nom 1/4 in. thickness of Hilti FS-ONE Sealant or FS-ONE MAX Intumescent Sealant, bearing the UL Classification Marking for Fill, Void or Cavity Materials, applied between the base layer of wallboard and the plaster ring.

Hilti Firestop Systems  
Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. December 07, 2016



3 DUCT SMOKE DETECTOR INSTALLATION DETAIL  
SCALE: NONE



**System No. W-L-5028**

| ANSI/UL1479 (ASTM E814)                     | CANULC S115                                 |
|---|---|
| F Ratings — 1 and 2 Hr (See Item 1)         | F Ratings — 1 and 2 Hr (See Item 1)         |
| T Ratings — 0, 3/4 and 1 Hr (See Item 3)    | FT Ratings — 0, 3/4 and 1 Hr (See Item 3)   |
| L Rating At Ambient — Less Than 1 CFM/sq ft | FH Ratings — 1 and 2 Hr (See Item 1)        |
| L Rating At 400 F — Less Than 1 CFM/sq ft   | FTH Ratings — 0, 3/4 and 1 Hr (See Item 3)  |
|   | L Rating At Ambient — Less Than 1 CFM/sq ft |
|   | L Rating At 400 F — Less Than 1 CFM/sq ft   |

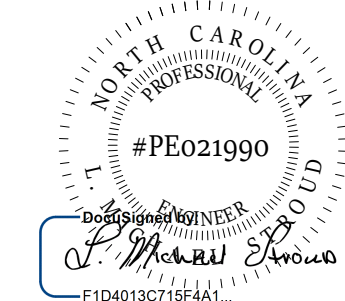
1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
 A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.  
 B. Gypsum Board\* — 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 7-1/2 in. (191 mm).  
 The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.  
 2. Through Penetrants — One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:  
 A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.  
 B. Copper Tubing — Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tubing.  
 C. Copper Pipe — Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.  
 3. Tube Insulation — Plastics+ — Min 1/2 in. (13 mm) to max 1 in. (25 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. An annular space of min 0 in. (point contact) to max 1-1/2 in. (38 mm) is required within the firestop system. The T, FT and FTH Ratings are 1 hr when the 1 in. (25 mm) thick tube insulation is used and 3/4 hr when the 3/4 in. (19 mm) thick tube insulation is used. When tube insulation thickness is less than 3/4 in. (19 mm), the T, FT and FTH Ratings are 0 hr.  
 See Plastics+ (QMZZ) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-SVA may be used.  
 4. Fill, Void or Cavity Material\* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annula, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.  
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant  
 \* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 27, 2015

Page: 1 of 1

COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by law.

STROUD ENGINEERING, P.A.  
422 HWY 24  
MCKEHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



L. MICHAEL STROUD, P.E.

26 SEPTEMBER, 2022

Matthew A Conte, AIA  
NC. REG.#15129



NC License #1919  
424 E. Central Blvd, #42  
Orlando, FL 32801  
www.eleven18architecture.com

Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.755.5300

© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLFS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407-745-5301  
mcont@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

**FA103**  
UNIT FIRE ALARM PLAN AND DETAILS



**PLUMBING & NATURAL GAS SPECIFICATIONS**

**GENERAL**

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA PLUMBING & FUEL GAS CODES.
2. CONTRACTOR SHALL PROVIDE ALL LICENSES, FEES, PERMITS, INSURANCE, ETC. REQUIRED FOR EXECUTION OF THIS WORK.
3. INSTALLATION SHALL COMPLY WITH OSHA STANDARDS.
4. INSTALL ALL EQUIPMENT AS PER MANUFACTURERS INSTRUCTIONS.
5. ALL PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE SEALED BY UL APPROVED MEANS.

**WATER**

1. ALL DOMESTIC WATER PIPE SHALL BE TYPE L COPPER, HARD DRAWN OR PEX IN ACCORDANCE WITH NORTH CAROLINA STATE PLUMBING CODE. ALL UNDERGROUND DOMESTIC WATER PIPE SHALL BE PVC.
2. WATER PIPE INSULATION
  - a. MATERIALS
    - i. INTERIOR - OWENS CORNING SSL II WITH ASI MAX JACKET FIBERGLASS INSULATION OR EQUAL.
    - ii. EXTERIOR - AP ARMAFLEX TUBE INSULATION WITH PVC JACKETING AND
  - b. MINIMUM WATER PIPE INSULATION THICKNESS
    - i. HOT WATER SUPPLY & RETURN PIPES - 1 1/2".
    - ii. COLD WATER PIPE IN UNCONDITIONED SPACES - 1" WITH HEAT CABLES (RAYCHEM WINTERGUARD OR EQUAL).
3. GATE VALVES - UP TO & INCLUDING 3 INCHES - MSS SP-80, CLASS 125, BRONZE BODY, BRONZE TRIM, RISING STEM, HANDWHEEL, INSIDE SCREW, SOLID WEDGE DISC, SOLDER ENDS.
4. THE DOMESTIC WATER PIPING SHALL HOLD A HYDROSTATIC TEST PRESSURE OF 100 PSI FOR A PERIOD OF AT LEAST 1-1/2 HOURS. ANY JOINT TO LEAK UNDER TEST SHALL BE BROKEN, REMADE AND RETESTED.
5. ALL DOMESTIC WATER PIPING SHALL BE DISINFECTED PER NORTH CAROLINA STATE BUILDING CODE AND LOCAL REQUIREMENTS.

**WASTE**

1. GRAVITY WASTE AND VENT PIPE SHALL BE SCHEDULE 40 PVC-DWV (ASTM D 2665) WITH SOLVENT WELD JOINTS.
2. ALL WASTE DRAIN PIPING SHALL BE TESTED BY FILLING THE LINES TO OVERFLOWING. ANY JOINT FOUND TO LEAK UNDER TEST SHALL BE BROKEN, REMADE AND RETESTED.

**NATURAL GAS**

1. NATURAL GAS PIPING SHALL BE SCHEDULE 40 STEEL COMPLYING WITH ASME B36.10, 10M, ASTM A53/A53M, AND ASTM A106. ALL EXTERIOR GAS PIPE SHALL BE PAINTED WITH RUST PREVENTING PAINT SYSTEM (COLOR AS REQUIRED BY OWNER).
2. GAS PIPING SHALL BE INSPECTED AND TESTING IN ACCORDANCE WITH SECTION 406 OF THE NORTH CAROLINA FUEL GAS CODE.

WASTE PLAN LEGEND

- 3"W — SANITARY WASTE PIPE
- 3/4"C — CONDENSATE DRAIN PIPE (INSULATED)
- 2"V — SANITARY WASTE VENT PIPE
- CONNECTION TO EXISTING PIPING
- INV. PIPE INVERT
- TYP. TYPICAL
- VTR VENT THROUGH ROOF

WATER PLAN LEGEND

- 3/4"CW — POTABLE COLD WATER PIPE
- 3/4"116 — POTABLE 116 DEGREE HOT WATER PIPE (INSULATED)
- 3/4"140 — POTABLE 140 DEGREE HOT WATER PIPE (INSULATED)
- ⊗ MANUAL BALL VALVE
- ▷ REDUCER
- TYP. TYPICAL

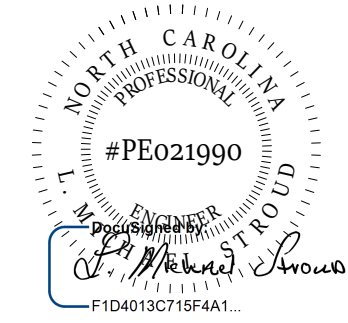
GAS PLAN LEGEND

- 3/4"G — GAS PIPE
- ⊗ MANUAL GAS BALL VALVE
- ⊠ ELECTRIC AUTOMATIC GAS VALVE
- ⊞ GAS REGULATOR
- MBH THOUSAND BTU PER HOUR
- BTU BRITISH THEMAL UNITS
- WC WATER COLUMN (PRESSURE)
- PSI POUNDS PER SQUARE INCH (PRESSURE)
- TYP. TYPICAL

| WATER HEATING SYSTEM: WH1           |          |                        |              |                  |
|-------------------------------------|----------|------------------------|--------------|------------------|
| TANKLESS SYSTEM                     |          |                        |              |                  |
| SERVICE: RESIDENT & MISC. AREAS     |          |                        |              |                  |
| ASSUMED WATER INLET TEMPERATURE: 50 |          |                        |              |                  |
| WATER SUPPLY TEMPERATURE: 116       |          |                        |              |                  |
| Equipment                           | Quantity | Flow per Fixture (GPM) | Usage Factor | Total Flow (GPM) |
| Private bathroom group              | 46       | 2.50                   | 0.10         | 11.50            |
| Private kitchen sink                | 46       | 2.50                   | 0.10         | 11.50            |
| Lavatory - public                   | 7        | 0.50                   | 0.05         | 0.18             |
| Food service hand sink              | 3        | 0.50                   | 0.40         | 0.60             |
| Single bowl sink - public           | 3        | 2.50                   | 0.10         | 0.75             |
| Residential washer                  | 1        | 4.50                   | 0.25         | 1.13             |
| Shower - public                     | 1        | 2.50                   | 0.25         | 0.63             |
| Spa tub                             | 1        | 15.00                  | 0.25         | 3.75             |
| Salon sink                          | 1        | 0.50                   | 0.25         | 0.13             |
| <b>TOTAL GPM</b>                    |          |                        |              | <b>30.15</b>     |

| WATER HEATING SYSTEM: WH2           |          |                        |              |                  |
|-------------------------------------|----------|------------------------|--------------|------------------|
| TANKLESS SYSTEM                     |          |                        |              |                  |
| SERVICE: KITCHEN                    |          |                        |              |                  |
| ASSUMED WATER INLET TEMPERATURE: 50 |          |                        |              |                  |
| WATER SUPPLY TEMPERATURE: 140       |          |                        |              |                  |
| Equipment                           | Quantity | Flow per Fixture (GPM) | Usage Factor | Total Flow (GPM) |
| Warewashing sink                    | 1        | 2.00                   | 1.00         | 2.00             |
| Prep sink                           | 2        | 1.00                   | 1.00         | 2.00             |
| Dishmachine                         | 1        | 1.24                   | 1.00         | 1.24             |
| Pre-rinse sink                      | 1        | 2.00                   | 1.00         | 2.00             |
| <b>TOTAL GPM</b>                    |          |                        |              | <b>7.24</b>      |

| WATER HEATING SYSTEM: WH3           |          |                        |              |                  |
|-------------------------------------|----------|------------------------|--------------|------------------|
| TANKLESS SYSTEM                     |          |                        |              |                  |
| SERVICE: LAUNDRY                    |          |                        |              |                  |
| ASSUMED WATER INLET TEMPERATURE: 50 |          |                        |              |                  |
| WATER SUPPLY TEMPERATURE: 140       |          |                        |              |                  |
| Equipment                           | Quantity | Flow per Fixture (GPM) | Usage Factor | Total Flow (GPM) |
| Can wash                            | 1        | 1.00                   | 0.25         | 0.25             |
| Commercial washers                  | 2        | 3.00                   | 1.00         | 6.00             |
| Laundry sinks                       | 3        | 2.00                   | 0.25         | 1.50             |
| Janitors sinks                      | 2        | 2.00                   | 0.25         | 1.00             |
| <b>TOTAL GPM</b>                    |          |                        |              | <b>8.75</b>      |



**STROUD ENGINEERING, P.A.**  
 422 HWY 24  
 MOKREHEAD CITY, NC 28557  
 (252) 247-7479 LICENSE NO. C-0647  
**L. MICHAEL STROUD, P.E.**

COPYRIGHT STATEMENT  
 These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by law.

**20 JANUARY, 2023**

Matthew A Conte, AIA  
 NC. REG.#15129



NC License: 9199  
 Mailing Address:  
 424 E. Central Blvd, #42  
 Orlando, FL 32801  
 www.eleven18architecture.com  
 Physical Address:  
 1011 E. Colonial Dr. #307  
 Orlando, FL 32803  
 407.255.5300

© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
 All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
 40 RAWLS CLUB RD  
 FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
 MATTHEW A. CONTE  
 407-745-5301  
 mconte@eleven18architecture.com

PROJECT TEAM:  
 Gabriela Salazar  
 Pamela Friday  
 Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**P001**  
 PLUMBING COVER



| KITCHEN EQUIPMENT AND PLUMBING FIXTURE SCHEDULE |   |  |                  |          |          |                   |                |   |
|---|---|--|------------------|----------|----------|-------------------|----------------|---|
| MARK  | DESCRIPTION   | MAKE/MODEL   | WATER CONNECTION |          |          |                   | WASTE ROUGH-IN | REMARKS                                 |
|   |   |  | CW               | HW (116) | HW (140) | SUPPLY STOP       |                |   |
| 203,204   | 3-COMPARTMENT SINK  | REFER TO FOOD SERVICE DRAWINGS PROVIDED BY PRICE DAVIS   | 1/2"             | N/A      | 1/2"     | ANGLE VALVE       | INDIRECT DRAIN |   |
| 206   | HAND SINK   | REFER TO FOOD SERVICE DRAWINGS PROVIDED BY PRICE DAVIS   | 1/2"             | 1/2"     | N/A      | ANGLE VALVE       | 2"             | ADA COMPLIANT                           |
| 208, 210  | 1-COMPARTMENT SINK  | REFER TO FOOD SERVICE DRAWINGS PROVIDED BY PRICE DAVIS   | 1/2"             | N/A      | 1/2"     | ANGLE VALVE       | INDIRECT DRAIN |   |
| 209, 210  | 1-COMPARTMENT SINK  | REFER TO FOOD SERVICE DRAWINGS PROVIDED BY PRICE DAVIS   | 1/2"             | N/A      | 1/2"     | ANGLE VALVE       | INDIRECT DRAIN |   |
| 212, 213, 214                                   | ICE MACHINE W BIN & WATER FILTER                              | REFER TO FOOD SERVICE DRAWINGS PROVIDED BY PRICE DAVIS   | 1/2"             | N/A      | N/A      | ANGLE VALVE       | INDIRECT DRAIN |   |
| 216   | DISHWASHER  | REFER TO FOOD SERVICE DRAWINGS PROVIDED BY PRICE DAVIS   | N/A              | N/A      | 3/4"     | BALL VALVE        | INDIRECT DRAIN |   |
| 217, 218  | SOILED DISH TABLE   | REFER TO FOOD SERVICE DRAWINGS PROVIDED BY PRICE DAVIS   | 1/2"             | N/A      | 1/2"     | ANGLE VALVE       | INDIRECT DRAIN |   |
| 306, 307, 308                                   | FOOD WELL   | REFER TO FOOD SERVICE DRAWINGS PROVIDED BY PRICE DAVIS   | N/A              | N/A      | N/A      | N/A               | INDIRECT DRAIN |   |
| 309, 310  | DROP IN SINK  | REFER TO FOOD SERVICE DRAWINGS PROVIDED BY PRICE DAVIS   | 1/2"             | 1/2"     | N/A      | ANGLE VALVE       | 2"             |   |
| 513, 514  | DROP IN SINK  | REFER TO FOOD SERVICE DRAWINGS PROVIDED BY PRICE DAVIS   | 1/2"             | 1/2"     | N/A      | ANGLE VALVE       | 2"             |   |
| 551   | FOOD WELL   | REFER TO FOOD SERVICE DRAWINGS PROVIDED BY PRICE DAVIS   | N/A              | N/A      | N/A      | N/A               | INDIRECT DRAIN |   |
| BS  | BEAUTY SINK   | BELVEDERE 2800 BETA BOWL COMPLETE WITH 522 FIXTURE AND 503 VACUUM BREAKER. PROVIDE HAIR INTERCEPTOR EQUAL TO ZURN Z1175.   | 1/2"             | 1/2"     | N/A      | ANGLE VALVES      | 2"             |   |
| CW  | CAN WASH  | WALL HYDRANT EQUAL TO ZURN #Z1325. DRAIN EQUAL TO ZURN #Z550, TILED  | 3/4"             | N/A      | 3/4"     | BALL VALVE        | 3"             |   |
| CCW   | COMMERCIAL CLOTHES WASHER                                     | WASHING MACHINE BOX SHALL BE EQUAL TO GUT GREY#1 150   | 3/4"             | N/A      | 3/4"     | BALL VALVE        | INDIRECT DRAIN | PROVIDE SPRING CHECK VALVES ON SUPPLIES |
| JS  | JANITOR'S SINK  | SINK SHALL BE EQUAL TO ZURN MODEL #Z1996-24, 24"X24"X10", MOLDED COMPOSITE. PROVIDE FAUCET EQUAL TO ZURN MODEL #Z843M1-RC. INTEGRAL STOPS, VACUUM BREAKER, PAIL HOOK, THREADED SPOUT, AND LEVER HANDLES. PROVIDE SINK COMPLETE WITH MOP HANGER, HOSE WITH BRACKET, AND P-TRAP.   | 1/2"             | N/A      | 1/2"     | ANGLE VALVES      | 2"             |   |
| LV1   | LAVATORY, IN COUNTER TYPE                                     | LAVATORY SHALL BE EQUAL TO MANSFIELD MODEL 251-4, VITREOUS CHINA, COUNTER TOP. PROVIDE FAUCET EQUAL TO CLEVELAND FAUCET MODEL #40712 CENTERSET FAUCET WITH SINGLE LEVER HANDLE W/POP-UP DRAIN WITH TAILPIECE. PROVIDE 0.5 GPM AERATOR EQUAL TO MOEN MODEL #516711. PROVIDE LAVATORY COMPLETE WITH GRID DRAIN, PREWRAPPED INSULATED, CAST BRASS, OFFSET TAILPIECE AND P-TRAP WITH CLEANOUT (EQUAL TO MCGUIRE #PW2150WC) AND CHROME PLATED SUPPLIES (EQUAL TO MCGUIRE #175)                                  | 1/2"             | 1/2"     | N/A      | ANGLE VALVE       | 2"             | ADA COMPLIANT                           |
| LV2   | LAVATORY, WALL HUNG TYPE                                      | LAVATORY SHALL BE EQUAL TO SEASONS MODEL #SE10407, VITREOUS CHINA, WALL HUNG. PROVIDE FAUCET EQUAL TO CLEVELAND FAUCET MODEL #40712 CENTERSET FAUCET WITH SINGLE LEVER HANDLE W/POP-UP DRAIN WITH TAILPIECE. PROVIDE 0.5 GPM AERATOR EQUAL TO MOEN MODEL #516711. PROVIDE LAVATORY COMPLETE WITH PRE INSULATED OFFSET TAILPIECE AND P-TRAP WITH CLEANOUT (EQUAL TO MCGUIRE #PW2150WC) PROVIDE CAST BRASS SUPPLIES (EQUAL TO MCGUIRE 175)   | 1/2"             | 1/2"     | N/A      | ANGLE VALVE       | 2"             | PROVIDE CARRIER, ADA COMPLIANT          |
| RW  | RESIDENTIAL CLOTHES WASHER                                    | WASHING MACHINE BOX SHALL BE EQUAL TO GUT GREY#1 150   | 1/2"             | 1/2"     | N/A      | BALL VALVE        | 2"             | PROVIDE UTILITY BOX                     |
| S1  | 1-COMPARTMENT DROP-IN SINK - SOILED HOLD.                     | SINK SHALL BE EQUAL TO KINDRED MODEL #QSLF2020, SINGLE BOWL, THREE HOLE PUNCHING, 18 GAUGE STAINLESS STEEL. PROVIDE FAUCET EQUAL TO ZURN FAUCET MODEL #Z871C4, 8" CENTERS, DUAL 4" WRIST BLADES, VANDAL RESISTANT AERATOR. PROVIDE SINK COMPLETE WITH TWO STAINLESS STEEL BASKET STRAINERS AND TAILPIECES (EQUAL TO MCGUIRE #151A), CHROME PLATED SEMI-CAST BRASS P-TRAP (EQUAL TO MCGUIRE #8902) AND CHROME PLATED SUPPLIES WITH LOOSE KEY STOPS (EQUAL TO MCGUIRE #175LK)                                | 1/2"             | N/A      | 1/2"     | ANGLE VALVES      | 2"             | ADA COMPLIANT                           |
| S2  | 1-COMPARTMENT DROP-IN SINK - MEDS                             | SINK SHALL BE EQUAL TO KINDRED MODEL #QSLF2020, SINGLE BOWL, THREE HOLE PUNCHING, 18 GAUGE STAINLESS STEEL. PROVIDE FAUCET EQUAL TO ZURN FAUCET MODEL #Z871C4, 8" CENTERS, DUAL 4" WRIST BLADES, VANDAL RESISTANT AERATOR. PROVIDE SINK COMPLETE WITH TWO STAINLESS STEEL BASKET STRAINERS AND TAILPIECES (EQUAL TO MCGUIRE #151A), CHROME PLATED SEMI-CAST BRASS P-TRAP (EQUAL TO MCGUIRE #8902) AND CHROME PLATED SUPPLIES WITH LOOSE KEY STOPS (EQUAL TO MCGUIRE #175LK)                                | 1/2"             | 1/2"     | N/A      | ANGLE VALVES      | 2"             | ADA COMPLIANT                           |
| S3  | 1-COMPARTMENT DROP-IN SINK - UNITS                            | SINK SHALL BE EQUAL TO DAYTON MODEL #D011719, SINGLE BOWL, THREE HOLE PUNCHING, 22 GAUGE 300 SERIES STAINLESS STEEL. PROVIDE FAUCET EQUAL TO ZURN FAUCET MODEL #Z871C4, 8" CENTERS, DUAL 4" WRIST BLADES, VANDAL RESISTANT AERATOR, PROVIDE SINK COMPLETE WITH ONE STAINLESS STEEL BASKET STRAINER AND TAILPIECE (EQUAL TO MCGUIRE #151A), CHROME PLATED SEMI-CAST BRASS P-TRAP (EQUAL TO MCGUIRE #8902), AND CHROME PLATED SUPPLIES WITH LOOSE KEY STOPS (EQUAL TO MCGUIRE #175LK)                        | 1/2"             | 1/2"     | N/A      | ANGLE VALVES      | 2"             | ADA COMPLIANT                           |
| S4  | 1-COMPARTMENT DROP-IN SINK - ACTIVITY ROOM & RESIDENT LAUNDRY | SINK SHALL BE EQUAL TO DAYTON MODEL #D011719, SINGLE BOWL, SINGLE HOLE PUNCHING, 22 GAUGE 300 SERIES STAINLESS STEEL. PROVIDE FAUCET EQUAL TO ZURN FAUCET MODEL #Z871C4, 8" CENTERS, DUAL 4" WRIST BLADES, VANDAL RESISTANT AERATOR, PROVIDE SINK COMPLETE WITH ONE STAINLESS STEEL BASKET STRAINER AND TAILPIECE (EQUAL TO MCGUIRE #151A), CHROME PLATED SEMI-CAST BRASS P-TRAP (EQUAL TO MCGUIRE #8902), AND CHROME PLATED SUPPLIES WITH LOOSE KEY STOPS (EQUAL TO MCGUIRE #175LK)                       | 1/2"             | 1/2"     | N/A      | ANGLE VALVES      | 2"             | ADA COMPLIANT                           |
| SH1   | SHOWER - RESIDENT ROOMS                                       | HANDICAP SHOWER SHALL BE EQUAL TO PRAXIS INDUSTRIES G3682-IBS-50 36"X36", ACRYLIC, ONE PIECE, RIGHT OR LEFT HAND. PROVIDE SHOWER WITH GRAB BARS, FOLDABLE SEAT AND SHOWER VALVE PACKAGE. LEONARD AQUATROL 4505 PRESSURE ACTIVATED SHOWER VALVE WITH D-2L INLINE DIVERTER WITH LEVER HANDLE, H-05 SHOWER HEAD, 501(P/G) HAND HELD SHOWER HEAD WITH 60" HOSE, 24" GLIDE RAIL AND INLINE VACUUM BREAKER. WASTE DRAIN SHALL BE GRID STRAINER SHOWER DRAINE, PLATED BRASS. PROVIDE SHOWER COMPLETE WITH P-TRAP. | 1/2"             | 1/2"     | N/A      | ANGLE CHECK STOPS | 2"             | ADA COMPLIANT                           |
| SH2   | SHOWER - SPA  | HANDICAP SHOWER SHALL BE TILED BY OTHERS. LEONARD AQUATROL 4505 PRESSURE ACTIVATED SHOWER VALVE WITH D-2L INLINE DIVERTER WITH LEVER HANDLE, H-05 SHOWER HEAD, 501(P/G) HAND HELD SHOWERHEAD WITH 60" HOSE, 24" GLIDE RAIL AND INLINE VACUUM BREAKER. WASTE DRAIN SHALL BE GRID STRAINER SHOWER DRAIN, PLATED BRASS. PROVIDE SHOWER COMPLETE WITH P-TRAP.  | 1/2"             | 1/2"     | N/A      | ANGLE CHECK STOPS | 2"             | ADA COMPLIANT                           |
| TT  | THERAPY TUB - SPA   | WALK-IN TUB SHALL BE EQUAL TO CELEBRITY MODEL FIBERGLASS WALK-IN TUB COMPLETE WITH LEONARD AQUATROL 4507 PRESSURE ACTIVATED SHOWER VALVE WITH D DIVERTER TUB SPOUT, 501(P/G) HAND HELD SHOWER HEAD WITH 60" HOSE, 24" GLIDE RAIL AND INLINE VACUUM BREAKER, AND P-TRAP.  | 1/2"             | 1/2"     | N/A      | BALL VALVE        | 2"             | ADA COMPLIANT                           |
| US  | UTILITY SINK  | SERVICE SINK SHALL BE EQUAL TO ZURN MODEL #Z5420, VITREOUS CHINA, FLOOR MOUNTED. PROVIDE FLUSH VALVE, BEDPAN WASHER, AND SERVICE SINK FAUCET EQUAL TO ZURN #Z60843AV-BWJN.   | 1/2"             | N/A      | 1/2"     | ANGLE VALVE       | 2"             |   |
| WC  | WATER CLOSET, TANK TYPE                                       | WATER CLOSET SHALL BE EQUAL TO SEASONS MODEL #SE10008/SE10012, WHITE, VITREOUS CHINA ELONGATED BOWL, TANK TYPE, 1.6GPF, FLOOR MOUNTED, BOTTOM OUTLET. SEAT SHALL BE EQUAL TO SEASONS MODEL #SE10052, ELONGATED WHITE OPEN FRONT SEAT LESS COVER. WATER CLOSET SHALL BE APPROVED WITH CHROME PLATED SUPPLY WITH LOOSE KEY STOP EQUAL TO MCGUIRE #172.   | 1/2"             | N/A      | N/A      | ANGLE VALVE       | 3"             | ADA COMPLIANT                           |
| WF  | B-LEVEL WATER FOUNTAIN  | ELECTRIC WATER FOUNTAIN SHALL BE EQUAL TO ELKAY MODEL #EZST L8C, B-LEVEL, STAINLESS STEEL, 370 WATTS, 4.0 AMPS, 120V/160. PROVIDE WATER FOUNTAIN COMPLETE WITH ANGLE SUPPLY LOOSE KEY STOP (EQUAL TO MCGUIRE #175LK) P-TRAP (EQUAL TO MCGUIRE #8902) AND CARRIER.  | 1/2"             | N/A      | N/A      | ANGLE VALVE       | 3"             | ADA COMPLIANT                           |

| PLUMBING SPECIALTIES SCHEDULE |  |                            |                  |          |          |             |                         |   |
|-------------------------------|--|----------------------------|------------------|----------|----------|-------------|-------------------------|---|
| MARK                          | DESCRIPTION  | MAKE/MODEL                 | WATER CONNECTION |          |          |             | WASTE ROUGH-IN          | REMARKS   |
|                               |  |                            | CW               | HW (116) | HW (140) | SUPPLY STOP |                         |   |
| CO                            | CLEANOUT   | SEE DETAIL 6 ON SHEET P201 | N/A              | N/A      | N/A      | N/A         | SIZE AS INDICATED       |   |
| FD                            | FLOOR DRAIN  | SEE DETAIL 2 ON SHEET P201 | 1/2"             | N/A      | N/A      | BALL VALVE  | 3"                      | PROVIDE TRAP PRIMER   |
| FS                            | FLOOR SINK   | SEE DETAIL 2 ON SHEET P201 | ---              | ---      | ---      | N/A         | 3"                      |   |
| GI                            | GREASE INTERCEPTOR   | SEE DETAIL 7 ON SHEET P201 | N/A              | N/A      | N/A      | N/A         | 4"                      |   |
| HB                            | HOSE BIB   | WOODFORD MODEL 24 OR EQUAL | 3/4"             | N/A      | N/A      | BALL VALVE  | N/A                     | PROVIDE VACUUM BREAKER  |
| LT                            | LINT TRAP  | SEE DETAIL 3 ON SHEET P201 | N/A              | N/A      | N/A      | N/A         | 4"                      |   |
| WCO                           | WALL CLEANOUT  | SEE DETAIL 6 ON SHEET P201 | N/A              | N/A      | N/A      | N/A         | SIZE AS INDICATED       |   |
| WH1                           | 6 UNIT ON-DEMAND GAS WATER HEATER FLOOR MOUNTED, PRE-ASSEMBLED, SYSTEM | RINNAI TRS06CUIN           | 2 1/2"           | 2 1/2"   | N/A      | BALL VALVE  | INDIRECT TO FLOOR DRAIN | SEE SECTION 22 1006 OF SPECIFICATIONS & DETAIL ON PLANS<br>SHALL PROVIDE 30.2 GPM AT 76 DEGREE RISE, 1,194 MBH NATURAL GAS INPUT, PROVIDE GRUNFOS UPS 26150 CIRCULATING PUMP, PROVIDE CONCENTRIC VENT KIT & VENT THROUGH ROOF. INSTALL PER MANUFACTURER'S INSTRUCTIONS. |
| WH2                           | 2 UNIT ON-DEMAND GAS WATER HEATER WALL MOUNTED, PRE-ASSEMBLED SYSTEM   | RINNAI TRW02CUIN           | 2"               | N/A      | 2"       | BALL VALVE  | INDIRECT TO FLOOR DRAIN | SHALL PROVIDE 7.3 GPM AT 90 DEGREE RISE, 398 MBH NATURAL GAS INPUT, PROVIDE GRUNFOS UPS 26150 CIRCULATING PUMP, PROVIDE CONCENTRIC VENT KIT & VENT THROUGH ROOF. INSTALL PER MANUFACTURER'S INSTRUCTIONS.   |
| WH3                           | 2 UNIT ON-DEMAND GAS WATER HEATER WALL MOUNTED, PRE-ASSEMBLED SYSTEM   | RINNAI TRW02CUIN           | 2"               | N/A      | 2"       | BALL VALVE  | INDIRECT TO FLOOR DRAIN | SHALL PROVIDE 8.8 GPM AT 90 DEGREE RISE, 398 MBH NATURAL GAS INPUT, PROVIDE GRUNFOS UPS 26150 CIRCULATING PUMP, PROVIDE CONCENTRIC VENT KIT & VENT THROUGH ROOF. INSTALL PER MANUFACTURER'S INSTRUCTIONS.   |

COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by law.

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MOKREHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647

**L. MICHAEL STROUD, P.E.**

20 JANUARY, 2023

#PE021990  
Matthew A Conte, AIA  
NC. REG.#15129

**ELEVEN 18**  
ARCHITECTURE  
A WOMEN'S BUSINESS ENTERPRISE

NC License: 9199  
Mailing Address:  
414 E. Central Blvd #542  
Orlando, FL 32809  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr. #307  
Orlando, FL 32803  
407.745.5300

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

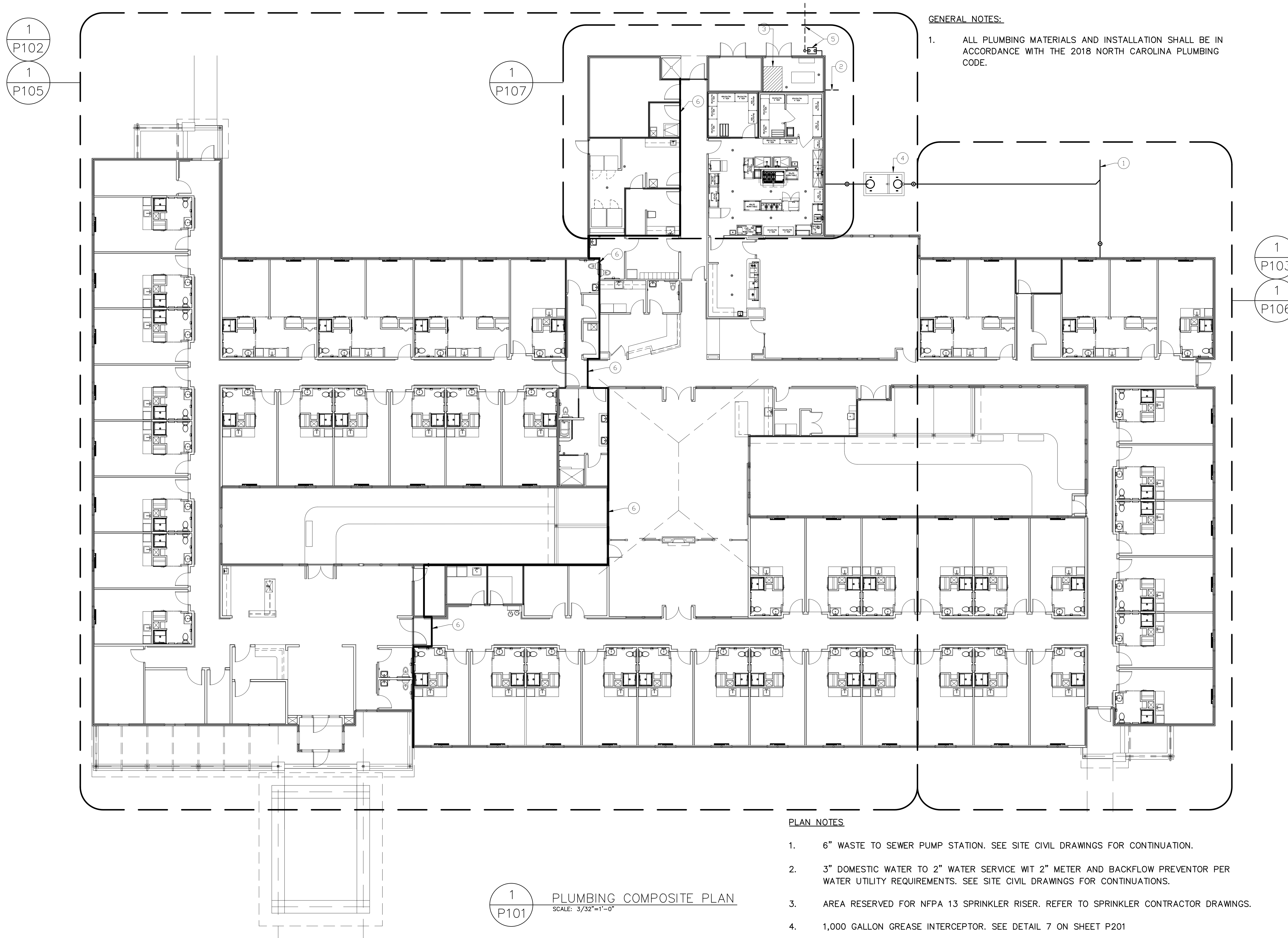
PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407.745.5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Famela Friday  
Yuan Ping-Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |





**GENERAL NOTES:**

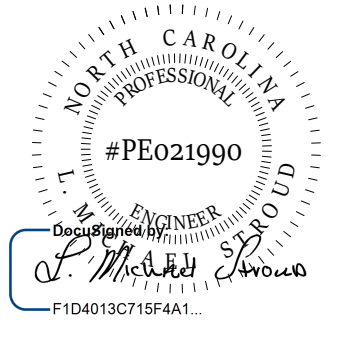
1. ALL PLUMBING MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA PLUMBING CODE.

**PLAN NOTES**

1. 6" WASTE TO SEWER PUMP STATION. SEE SITE CIVIL DRAWINGS FOR CONTINUATION.
2. 3" DOMESTIC WATER TO 2" WATER SERVICE WIT 2" METER AND BACKFLOW PREVENTOR PER WATER UTILITY REQUIREMENTS. SEE SITE CIVIL DRAWINGS FOR CONTINUATIONS.
3. AREA RESERVED FOR NFPA 13 SPRINKLER RISER. REFER TO SPRINKLER CONTRACTOR DRAWINGS.
4. 1,000 GALLON GREASE INTERCEPTOR. SEE DETAIL 7 ON SHEET P201
5. NATURAL GAS SERVICE..
6. 1-HOUR FIRE WALL TO ROOF DECK.

1  
P101  
**PLUMBING COMPOSITE PLAN**  
SCALE: 3/32"=1'-0"

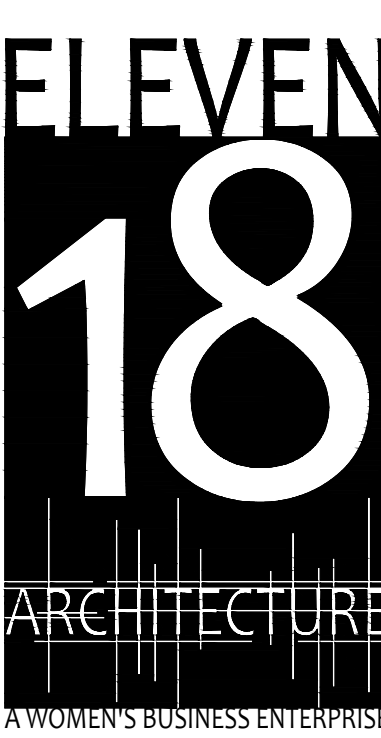
**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRISVILLE, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



L. MICHAEL STROUD, P.E.

20 JANUARY,  
2023

Matthew A Conte, AIA  
NC. REG.#15129



NC License: 9199  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.755.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS  
OF  
BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA  
COMMERCIAL  
CONTRACTORS**

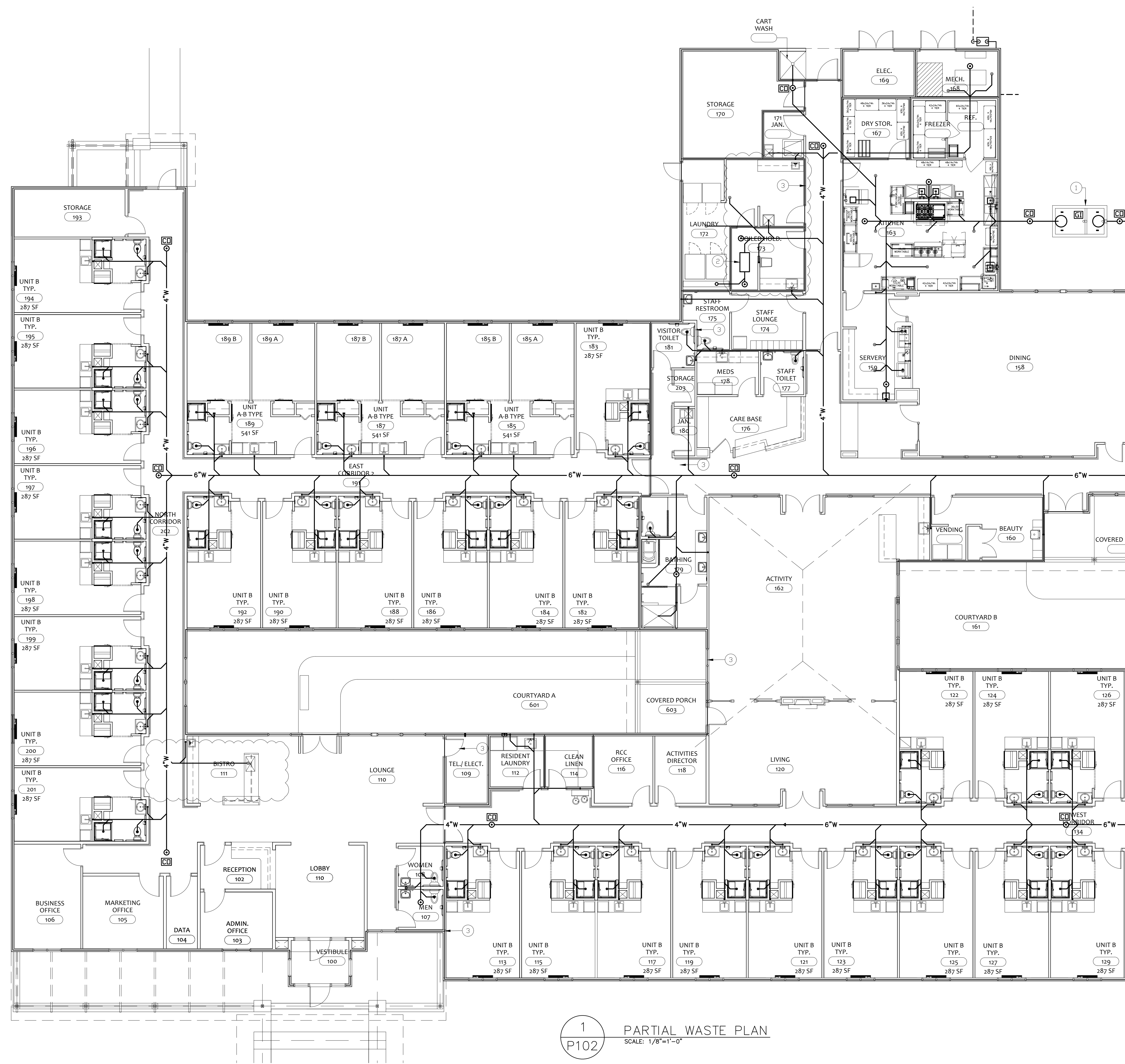
ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407.745.5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**P101**  
PLUMBING COMPOSITE  
PLAN





**PLUMBING GENERAL NOTES:**

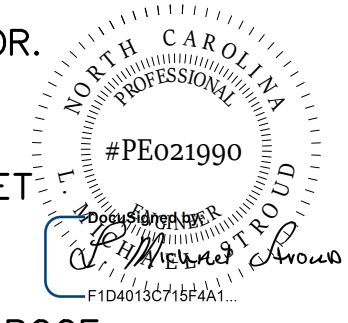
1. MAINTAIN 1/4" PER FOOT MINIMUM GRADE ON ALL WASTE LINES.

**PLUMBING PLAN NOTES**

1. 1,000 GALLON GREASE INTERCEPTOR. SEE DETAIL 7 ON SHEET P201.
2. LINT TRAP, SEE DETAIL 3 ON SHEET P201.
3. 1-HOUR FIRE/SMOKE BARRIER TO ROOF DECK.
4. 1-HOUR FIRE BARRIER TO CEILING.
5. SEE CIVIL PLANS FOR COURTYARD STORM WATER DRAINAGE.

MATCHLINE "A" (SEE SHEET P103)

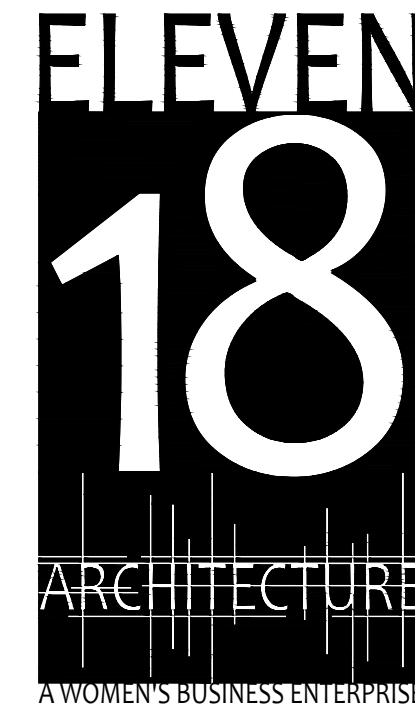
**STROUD ENGINEERING, P.A.**  
 422 HWY 24  
 MOKREHEAD CITY, NC 28557  
 (252) 247-7479  
 LICENSE NO. C-0647



**COPYRIGHT STATEMENT**  
 These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by law.

**20 JANUARY, 2023**

Matthew A. Conte, AIA  
 NC. REG. #15129



NC License: 1919  
 Mailing Address:  
 424 E. Central Blvd., #542  
 Orlando, FL 32801  
 www.eleven18architecture.com  
 Physical Address:  
 1011 E. Colonial Dr., #307  
 Orlando, FL 32803  
 407.735.5300  
 © Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
 All Rights Reserved Worldwide

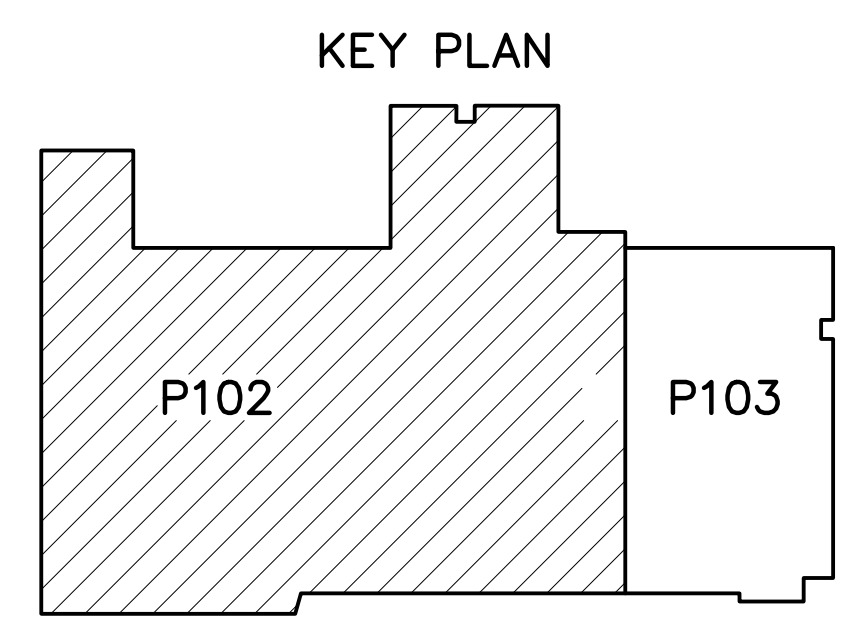
**PROJECT NAME:**  
**THE SPRINGS OF BALLENTINE**  
 40 RAWLS CLUB RD  
 FUQUAY-VARINA NC.

**PROJECT CLIENT:**  
**CAROLINA CONTRACTORS**

**ELEVEN18 PROJECT LEAD:**  
 MATTHEW A. CONTE  
 407.745.5301  
 mcont@eleven18architecture.com

**PROJECT TEAM:**  
 Gabriela Salazar  
 Pamela Friday  
 Yuan Ping Lien

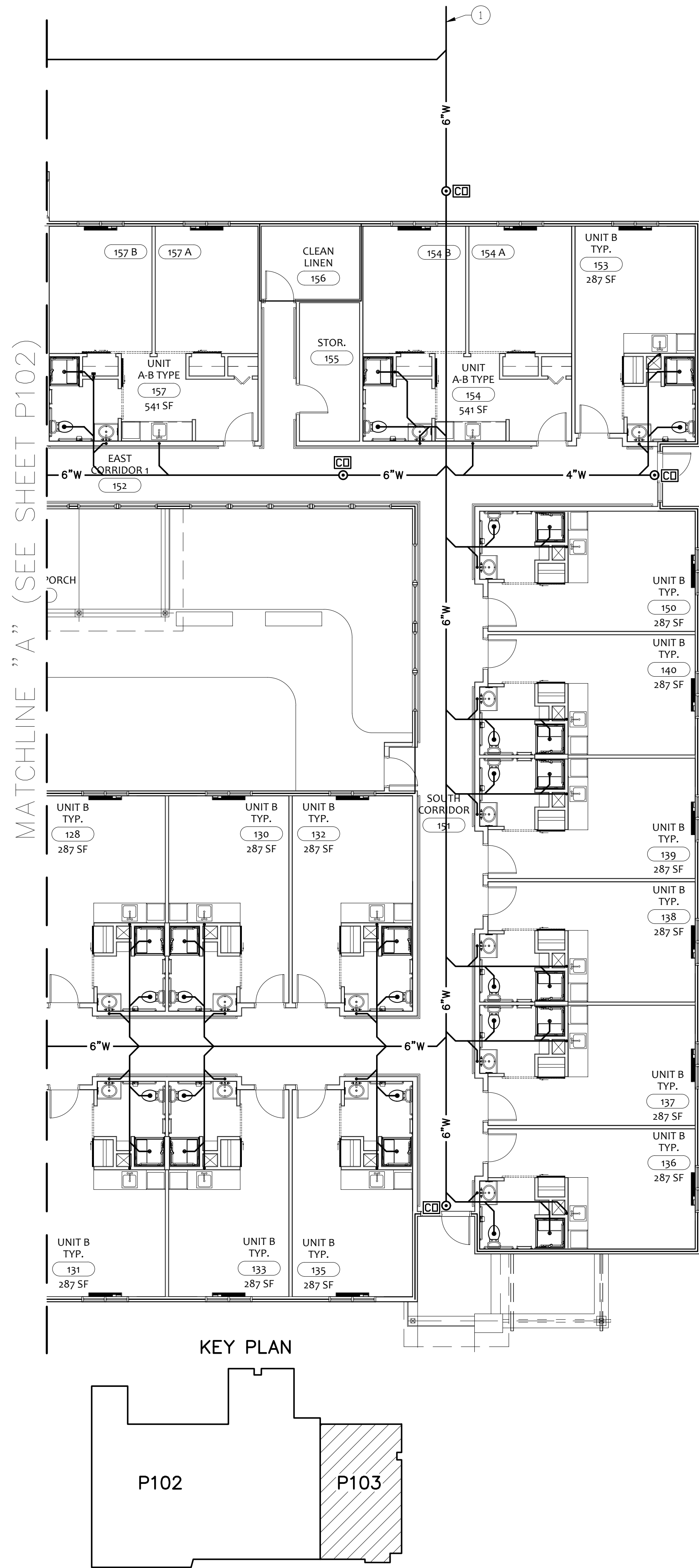
| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| -         | -         | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
| 3         | 3/22/2023 | REVISION 3       |



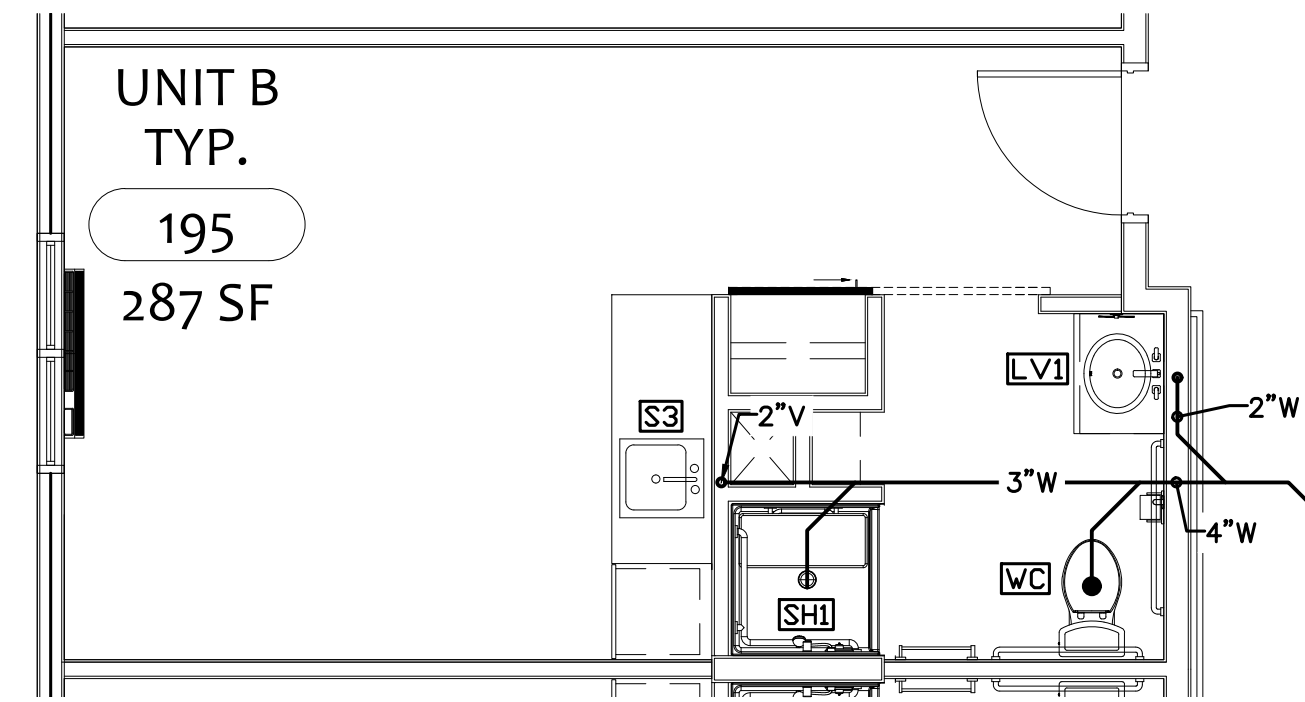
**1**  
**P102**  
 PARTIAL WASTE PLAN  
 SCALE: 1/8"=1'-0"

**P102**  
 PARTIAL WASTE PLAN

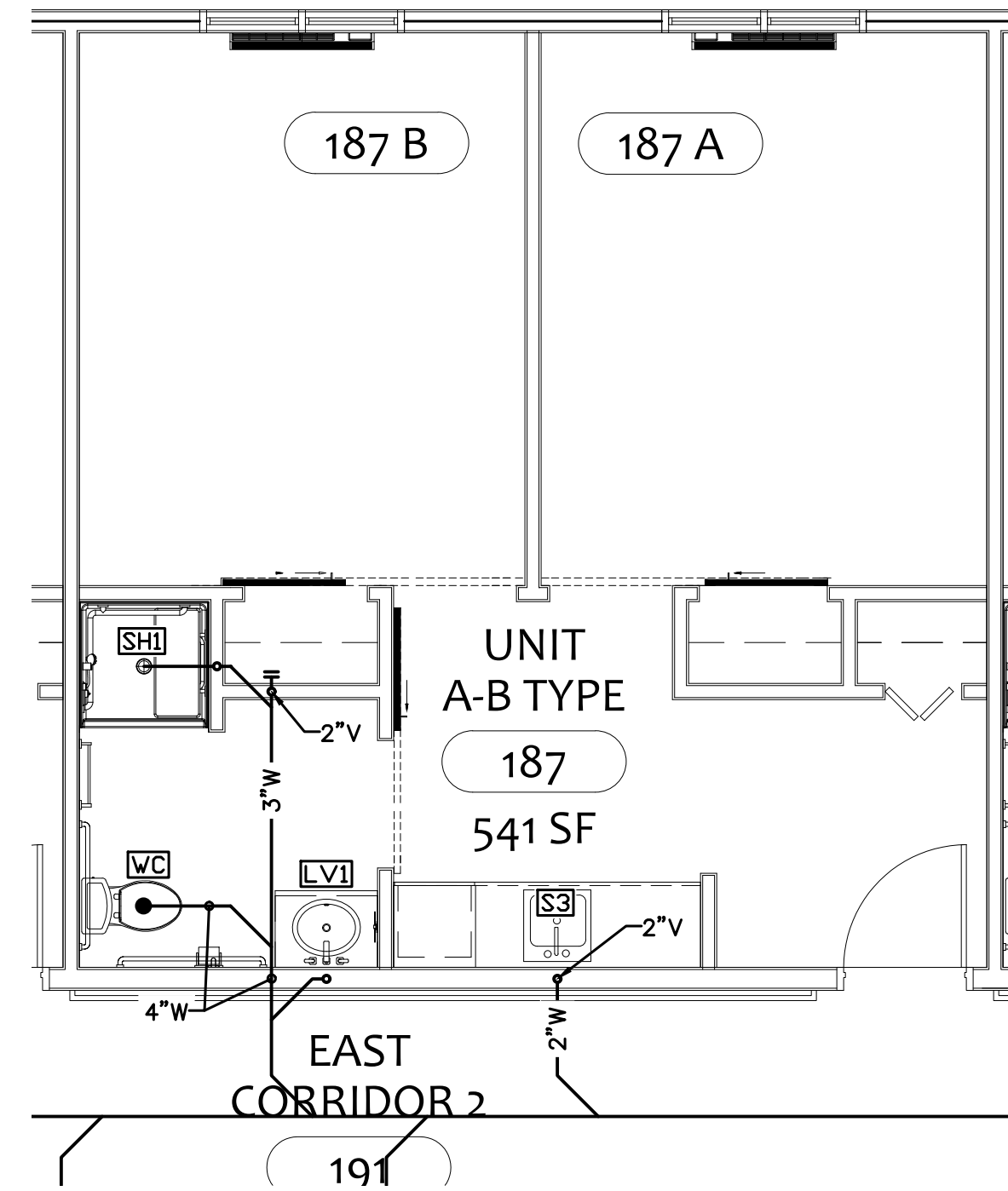




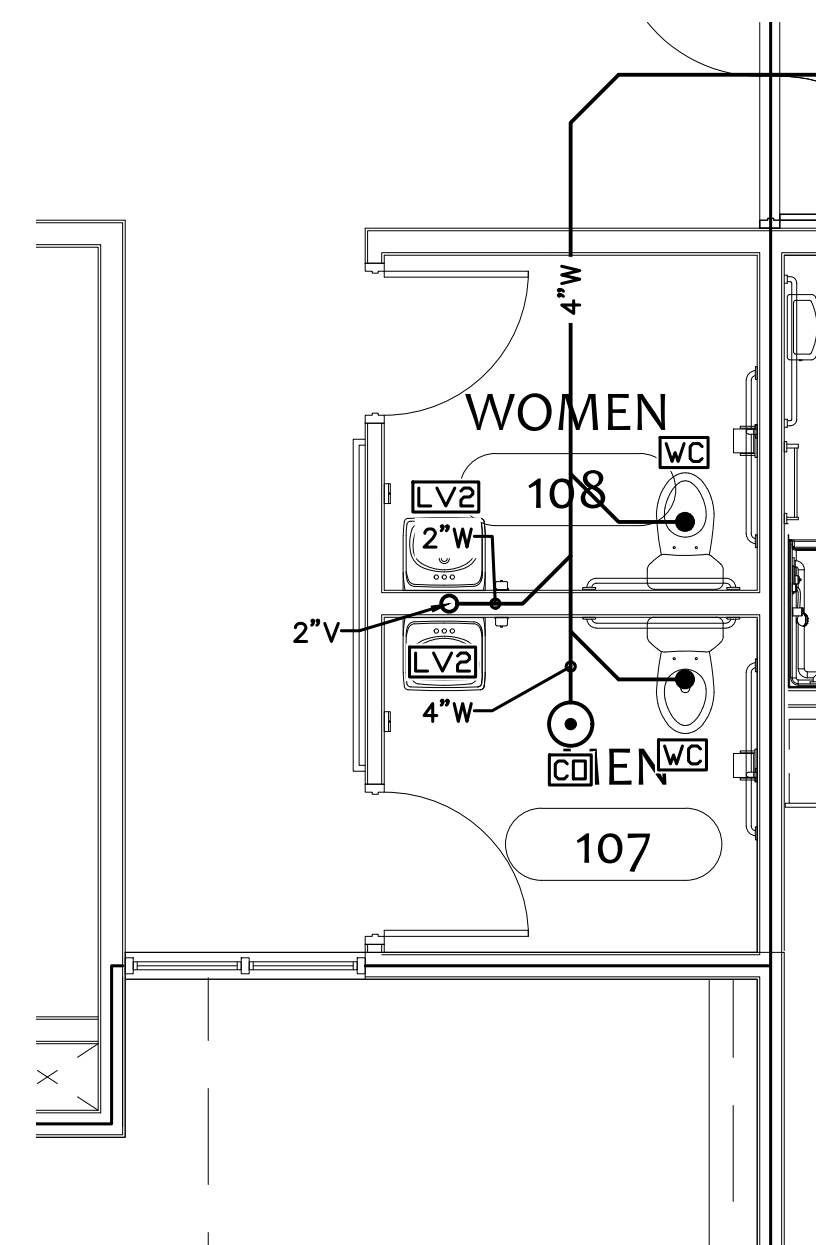
1 PARTIAL WASTE PLAN  
SCALE: 1/8"=1'-0"



2 TYPICAL UNIT B WASTE ENLARGEMENT  
SCALE: 1/4"=1'-0"



3 TYPICAL UNIT A-B WASTE ENLARGEMENT  
SCALE: 1/4"=1'-0"



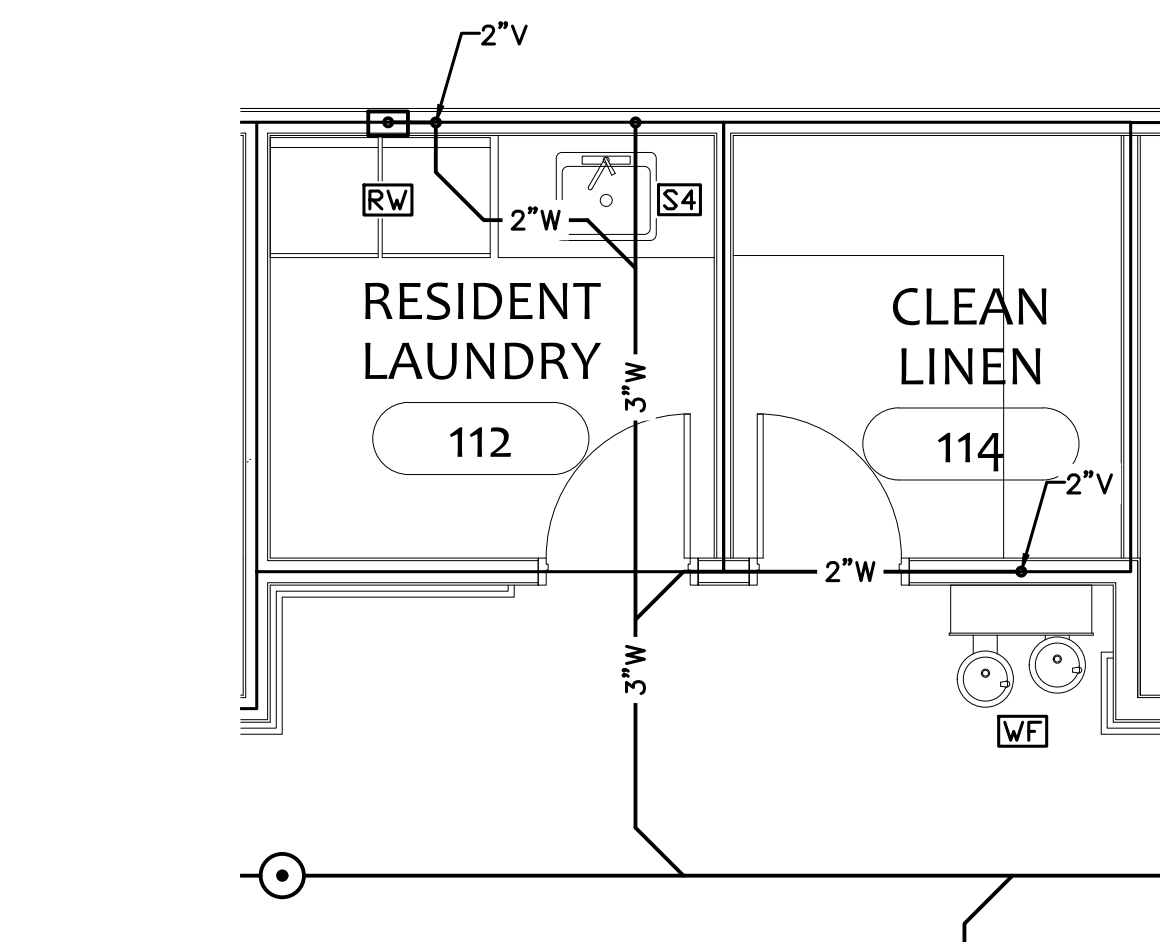
4 LOBBY RESTROOM WASTE ENLARGEMENT  
SCALE: 1/4"=1'-0"

PLUMBING GENERAL NOTES:

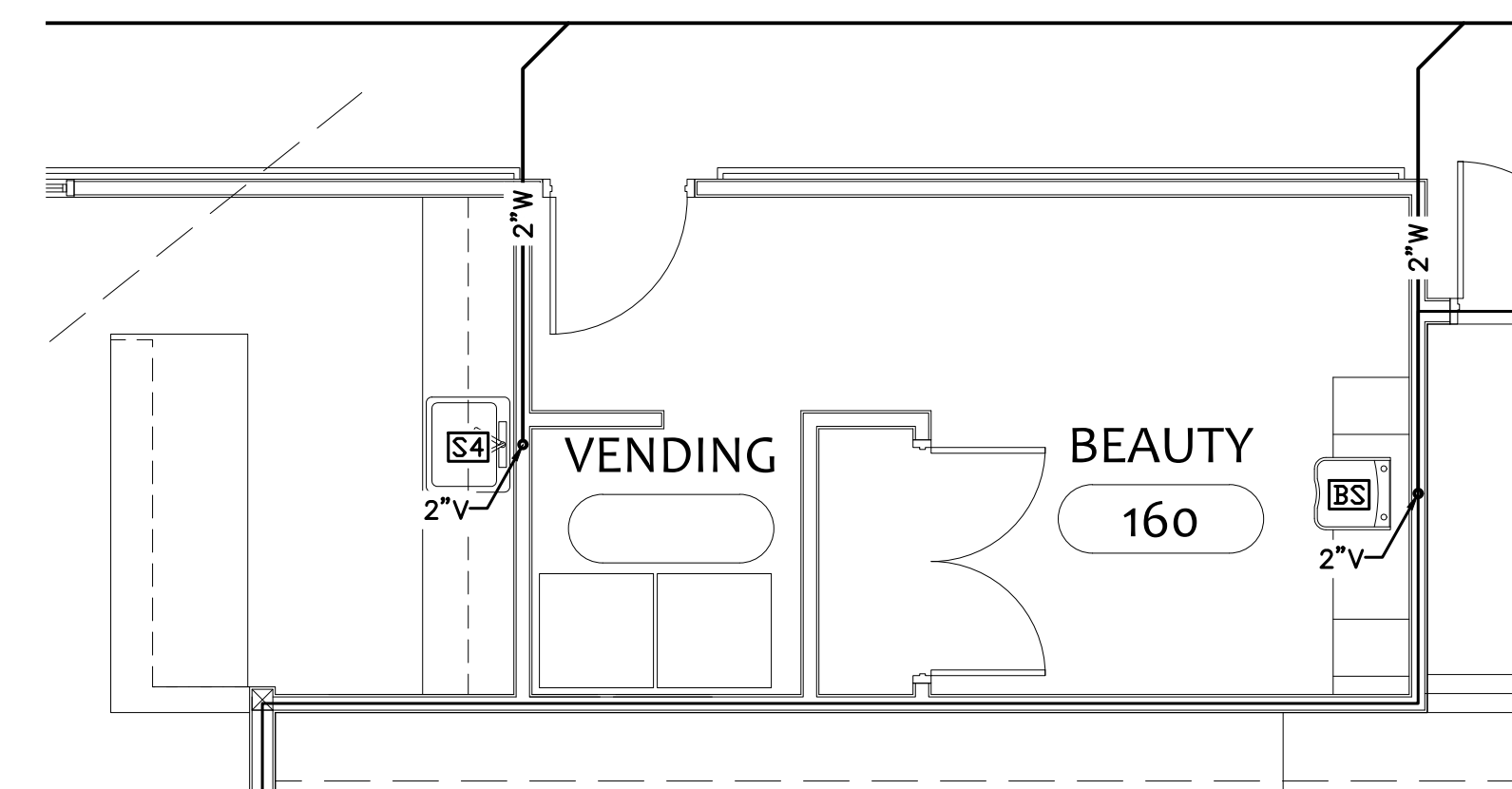
1. MAINTAIN 1/4" PER FOOT MINIMUM GRADE ON ALL WASTE LINES.

PLUMBING PLAN NOTES

1. 6" WASTE TO SEWER PUMP STATION. SEE SITE CIVIL DRAWINGS FOR CONTINUATION.



5 RESIDENT LAUNDRY WASTE ENLARGEMENT  
SCALE: 1/4"=1'-0"



6 BEAUTY WASTE ENLARGEMENT  
SCALE: 1/4"=1'-0"

STROUD ENGINEERING, P.A.  
422 HWY 24  
MCKEHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647

Matthew A. Conte, AIA  
NC REG.#15129  
#PE021990

20 JANUARY, 2023



PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407-745-5301  
mconte@eleven8architecture.com

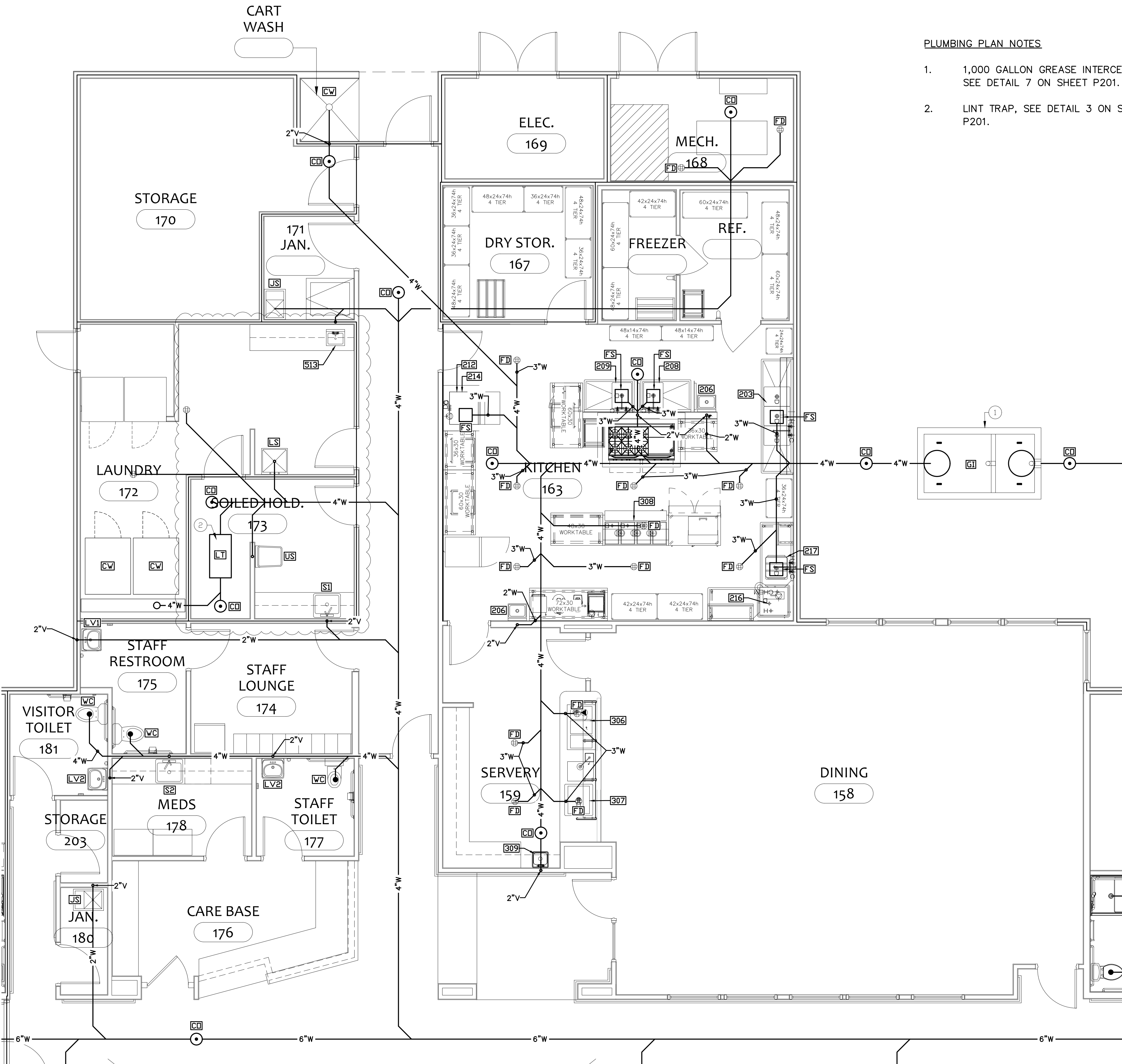
PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| -         | -         | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

**P103**  
PARTIAL WASTE PLAN & ENLARGEMENTS

COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by law.

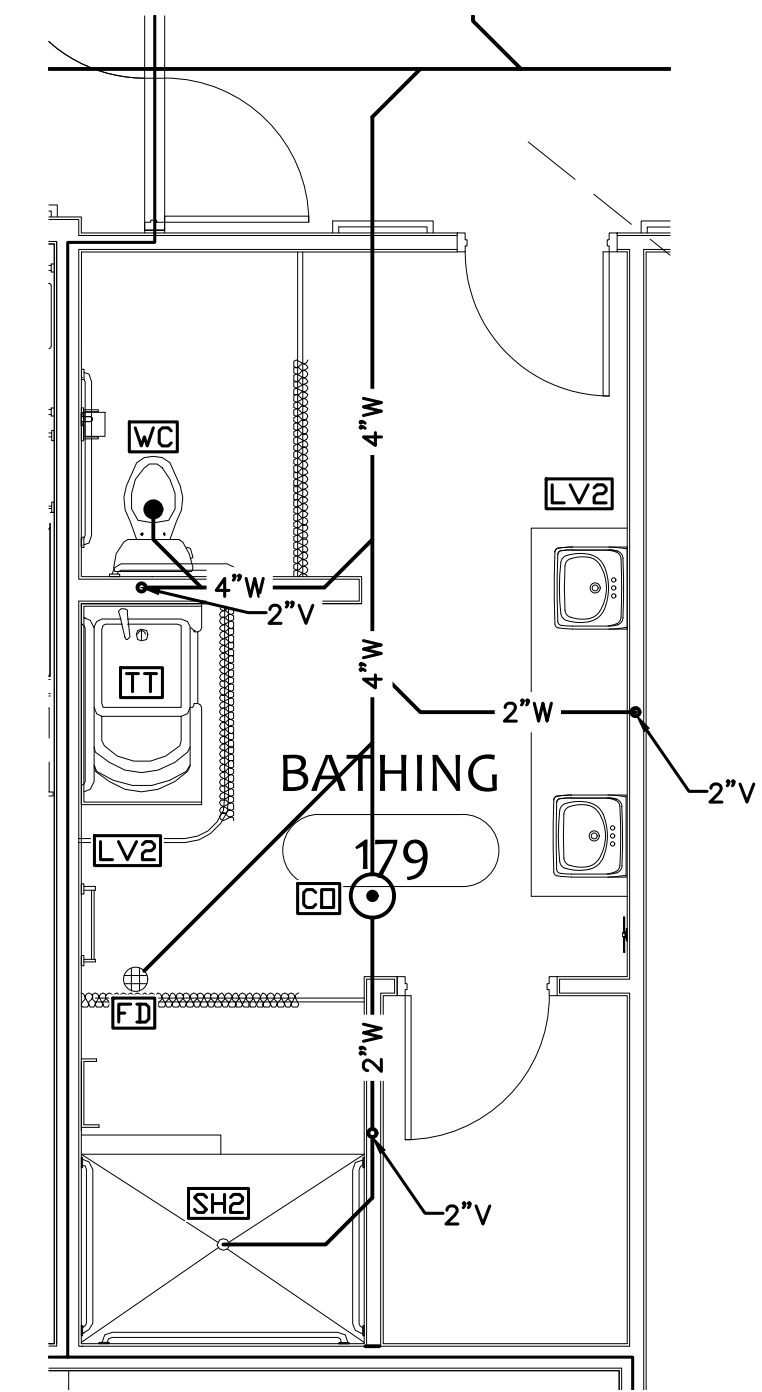




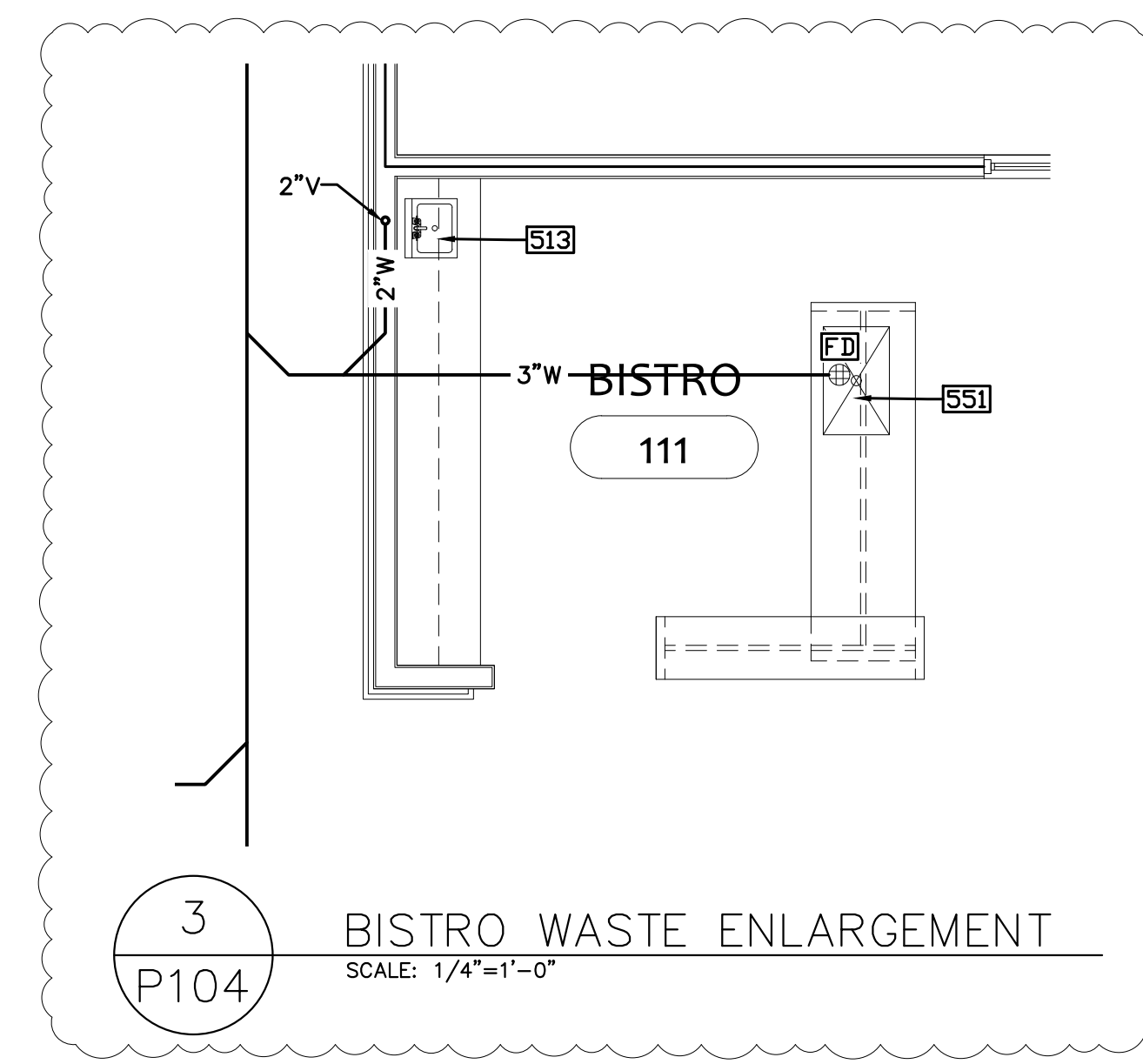
**1**  
SERVICE AREA WASTE ENLARGEMENT  
SCALE: 1/4"=1'-0"

**PLUMBING PLAN NOTES**

- 1,000 GALLON GREASE INTERCEPTOR. SEE DETAIL 7 ON SHEET P201.
- LINT TRAP, SEE DETAIL 3 ON SHEET P201.

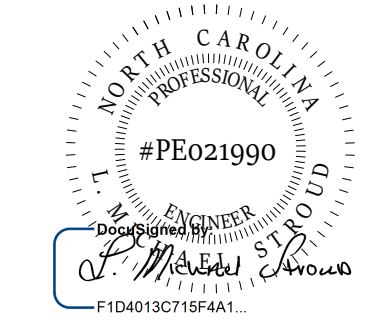


**2**  
BATHING WASTE ENLARGEMENT  
SCALE: 1/4"=1'-0"



**3**  
BISTRO WASTE ENLARGEMENT  
SCALE: 1/4"=1'-0"

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRISVILLE, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



**L. MICHAEL STROUD, P.E.**

20 JANUARY, 2023

Matthew A Conte, AIA  
NC REG.#15129



NC License #1919  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32801  
www.eleven8architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.295.5300  
© Copyright 2020 ELEVEN8 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWL'S CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA CONTRACTORS**

ELEVEN8 PROJECT LEAD:  
MATTHEW A. CONTE  
407.745.5301  
mconte@eleven8architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

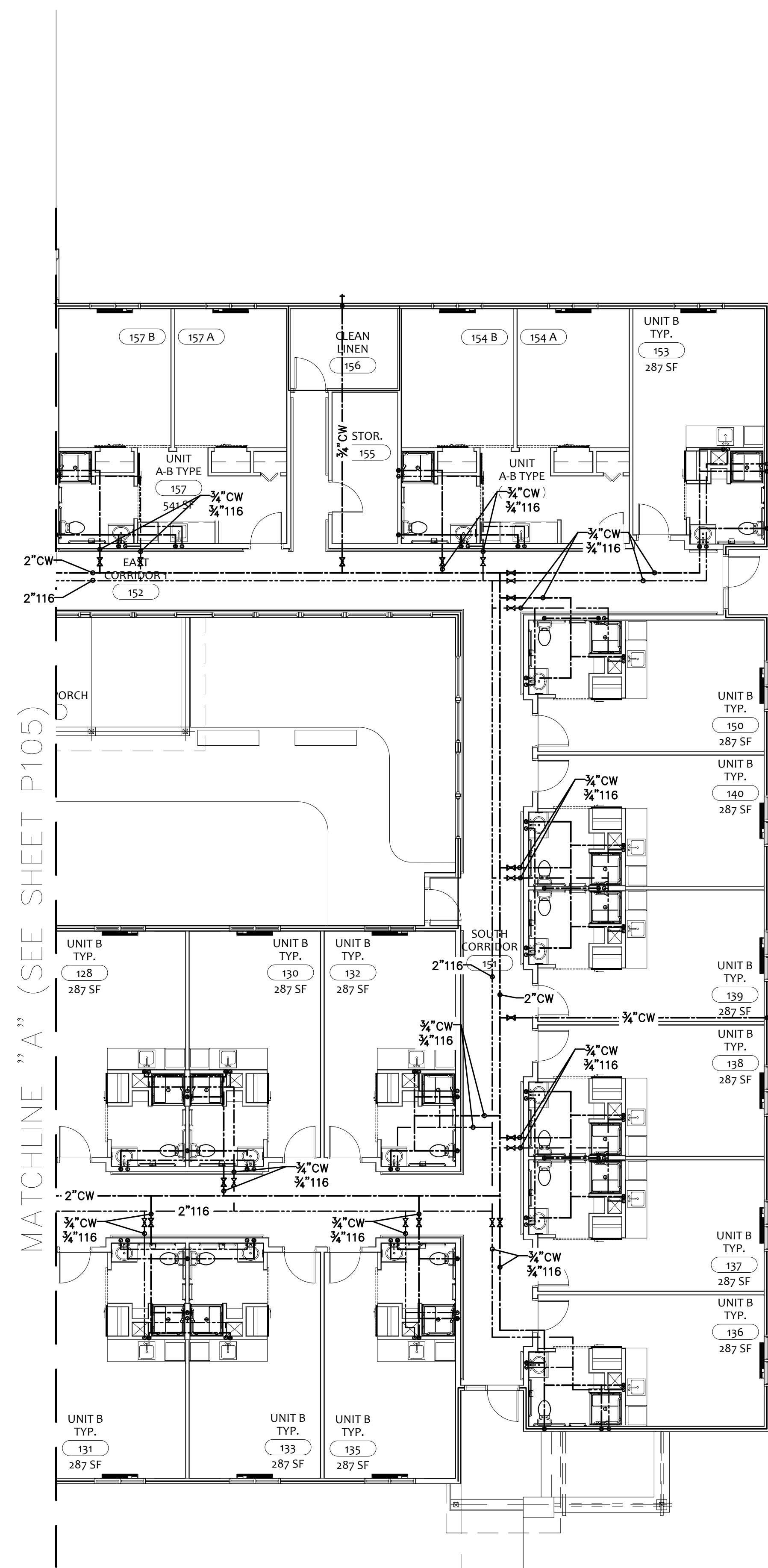
| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
| 3         | 3/22/2023 | REVISION 3       |

**P104**  
WASTE ENLARGEMENTS

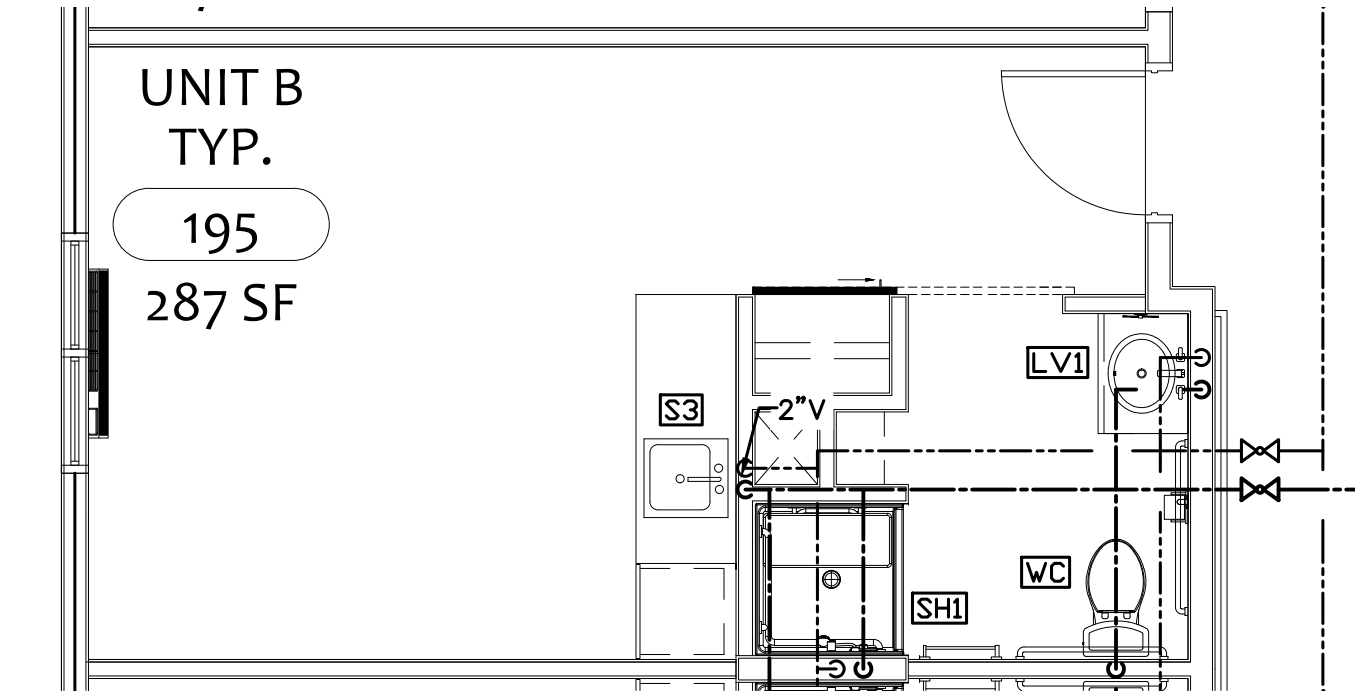




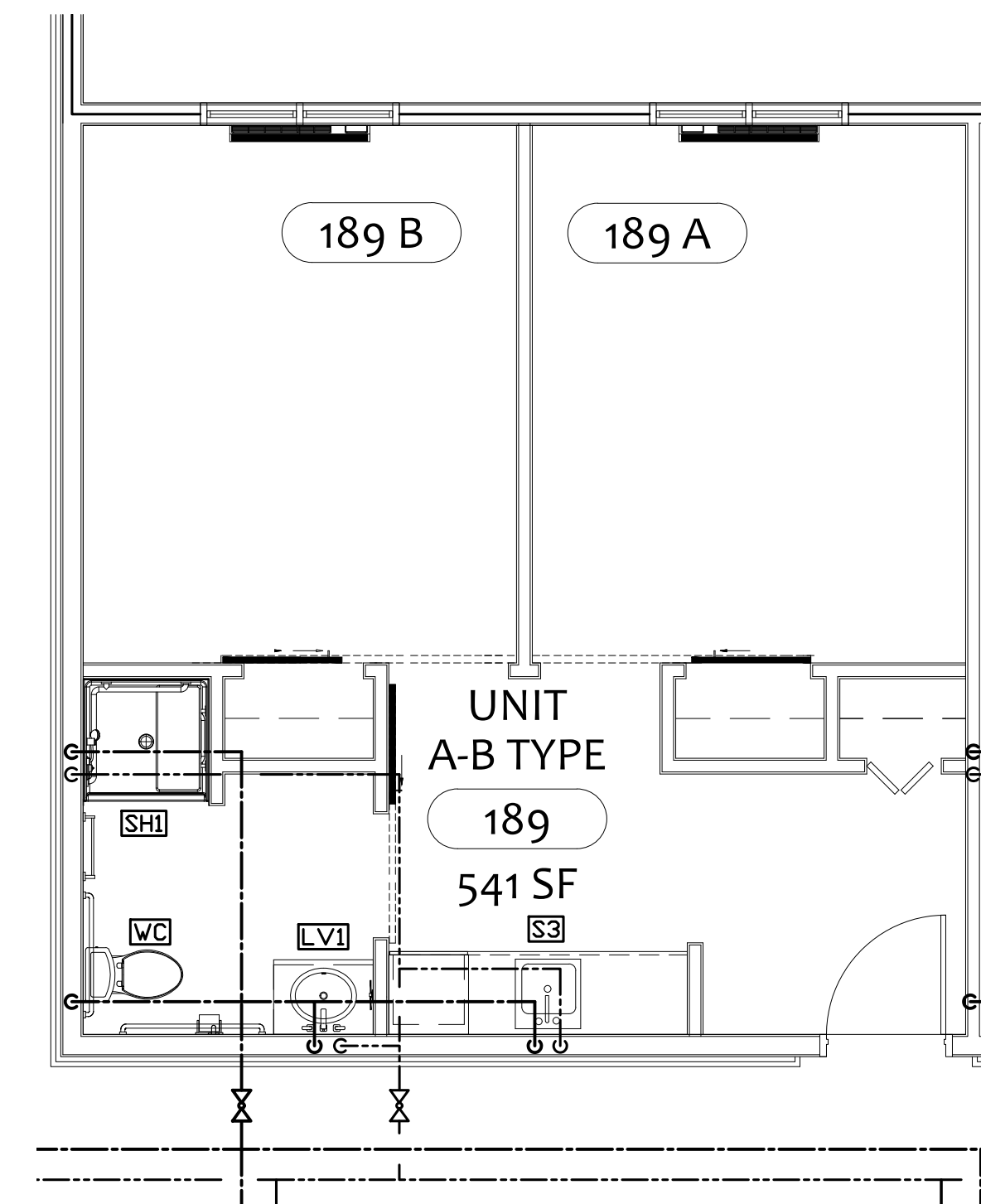




1 PARTIAL WATER PLAN  
SCALE: 1/8"=1'-0"



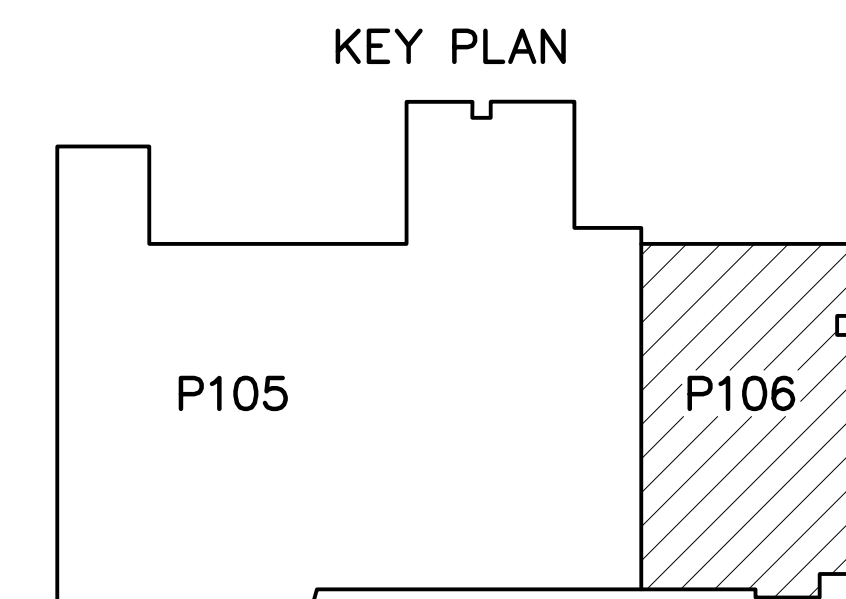
2 TYPICAL UNIT B WATER ENLARGEMENT  
SCALE: 1/4"=1'-0"



3 TYPICAL UNIT A-B WATER ENLARGEMENT  
SCALE: 1/4"=1'-0"

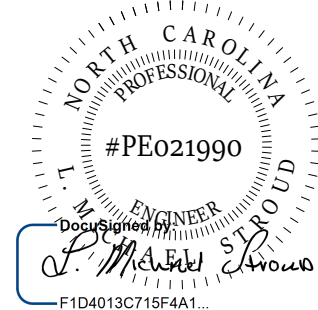
PLUMBING GENERAL NOTES:

1. PROVIDE BALL VALVE AT EACH WATER BRANCH TAKEOFF AS SHOWN ON PLANS.



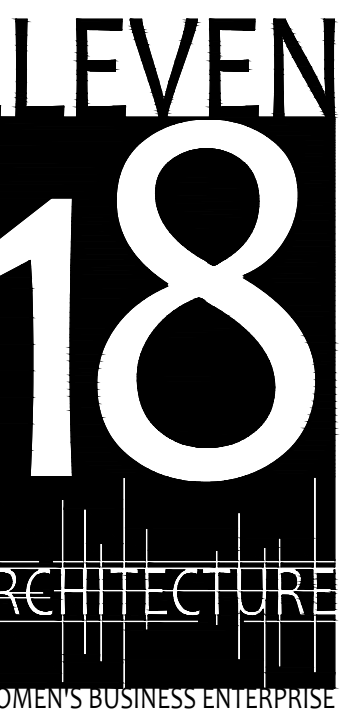
COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express consent of ELEVEN18 Architecture is prohibited by Law.

STROUD ENGINEERING, P.A.  
422 HWY 24  
MORRISVILLE, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647  
L. MICHAEL STROUD, P.E.



20 JANUARY, 2023

Matthew A Conte, AIA  
NC REG.#15129



NC License #1919  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.265.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
THE SPRINGS OF BALLENTINE  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
CAROLINA CONTRACTORS

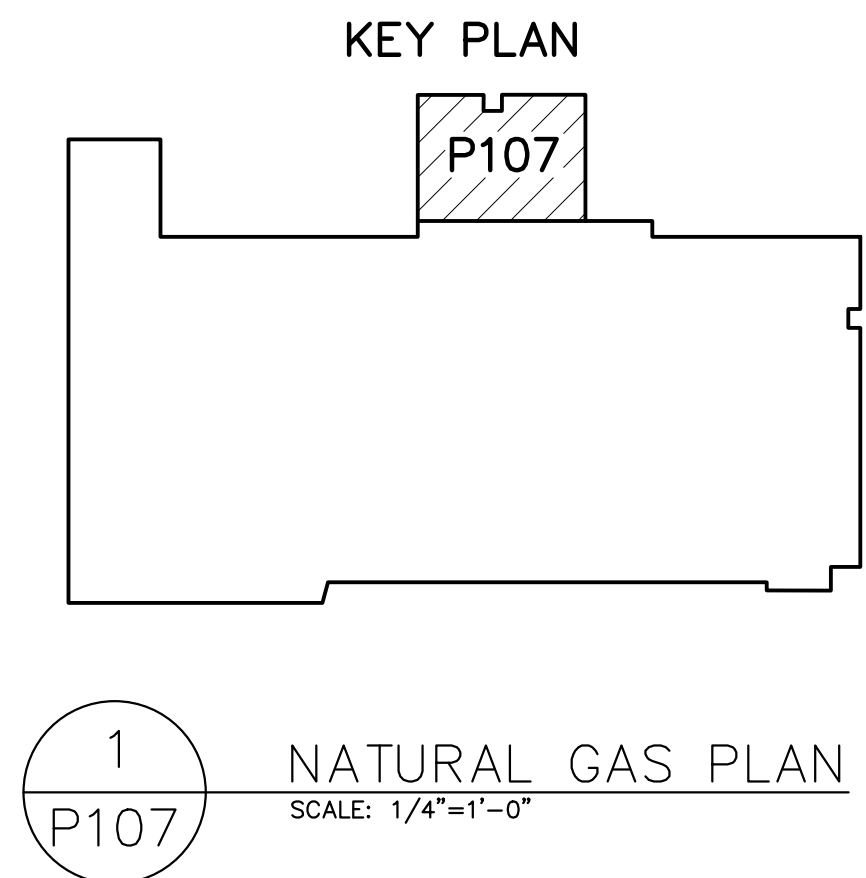
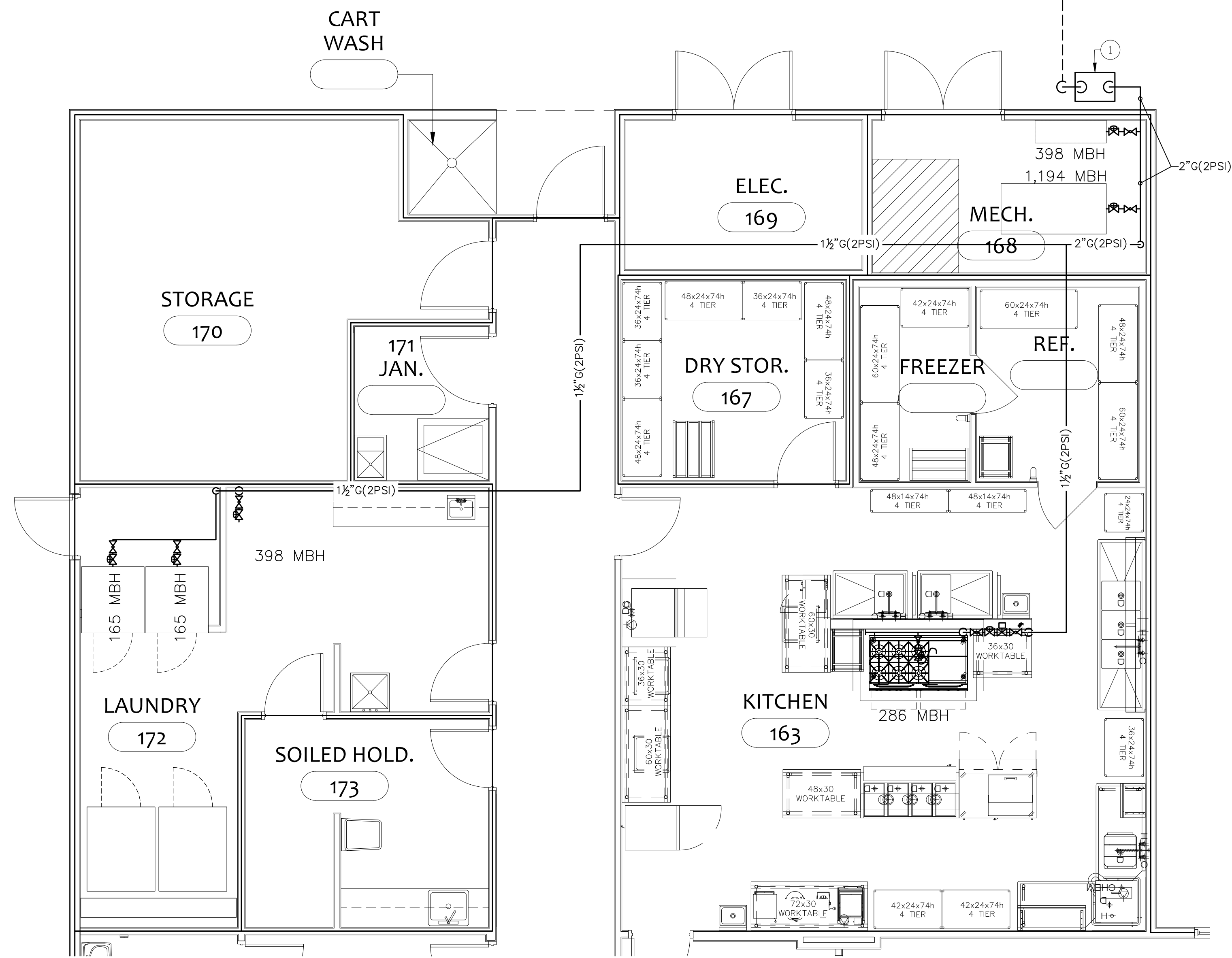
ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407.745.5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

P106  
PARTIAL WATER PLAN & ENLARGEMENTS





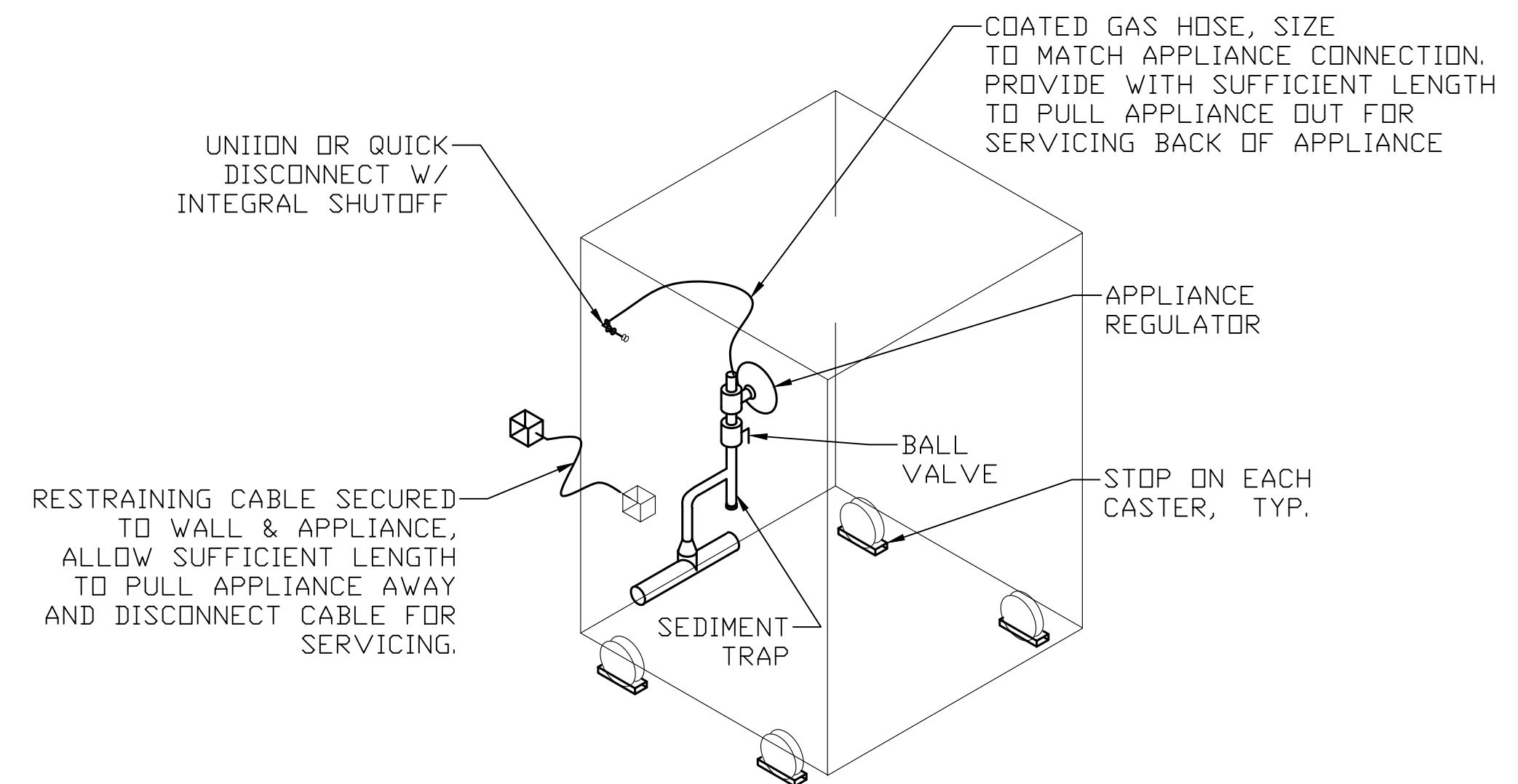
1 NATURAL GAS PLAN  
SCALE: 1/4"=1'-0"

GENERAL NOTES:

- NATURAL GAS SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA FUEL GAS CODE.
- GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN NFPA 54 AND AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- GAS PIPING SHALL BE SCHEDULE 40 STEEL PIPE IN ACCORDANCE WITH NC FUEL GAS CODE.
- PAINT ALL GAS PIPING WITH TWO COATS OF YELLOW ENAMEL AND STENCIL "GAS" OR "GAS 2 PSI" ON THE PIPE AT 60" ON CENTER.
- GAS VALVES SHALL BE MIN. 125 PSI RATED, NON-LUBRICATION PLUG TYPE WITH BRONZE BODY AND BRONZE PLUG.
- PROVIDE NON-CONDUCTING, DIELECTRIC UNIONS WHENEVER CONNECTING DISSIMILAR METALS.
- PROVIDE GAS COCKS, SEDIMENT TRAPS, AND GAS REGULATORS AT EACH PIECE OF EQUIPMENT. REGULATORS SHALL BE AS SUITABLE FOR THE PARTICULAR PIECE OF EQUIPMENT.

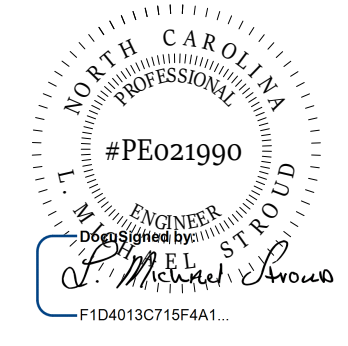
PLAN NOTES

- NEW NATURAL GAS SERVICE. PROVIDE METER, REGULATOR, VALVES, AND ALL REQUIRED APPURTENANCES AS REQUIRED BY GAS COMPANY AND NC FUEL GAS CODE. SERVICE SHALL DELIVER 2,606 CF/HR MINIMUM AT 2 PSI.



2 GAS APPLIANCE CONNECTION DETAIL  
SCALE: NONE

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



20 JANUARY,  
2023

Matthew A Conte, AIA  
NC REG.#15129



NC License #1919  
Mailing Address:  
424 E. Central Blvd., #42  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.255.5300

PROJECT NAME:  
**THE SPRINGS  
OF  
BALLENTINE**

40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA  
COMMERCIAL  
CONTRACTORS**

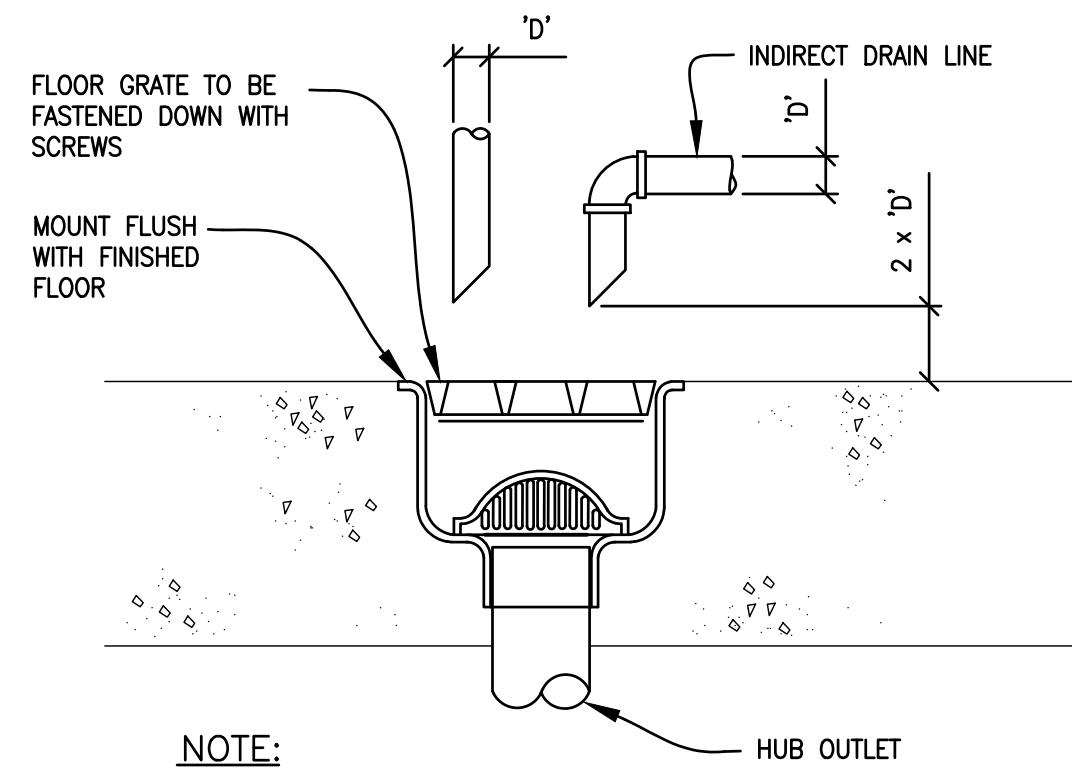
ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407-745-5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |

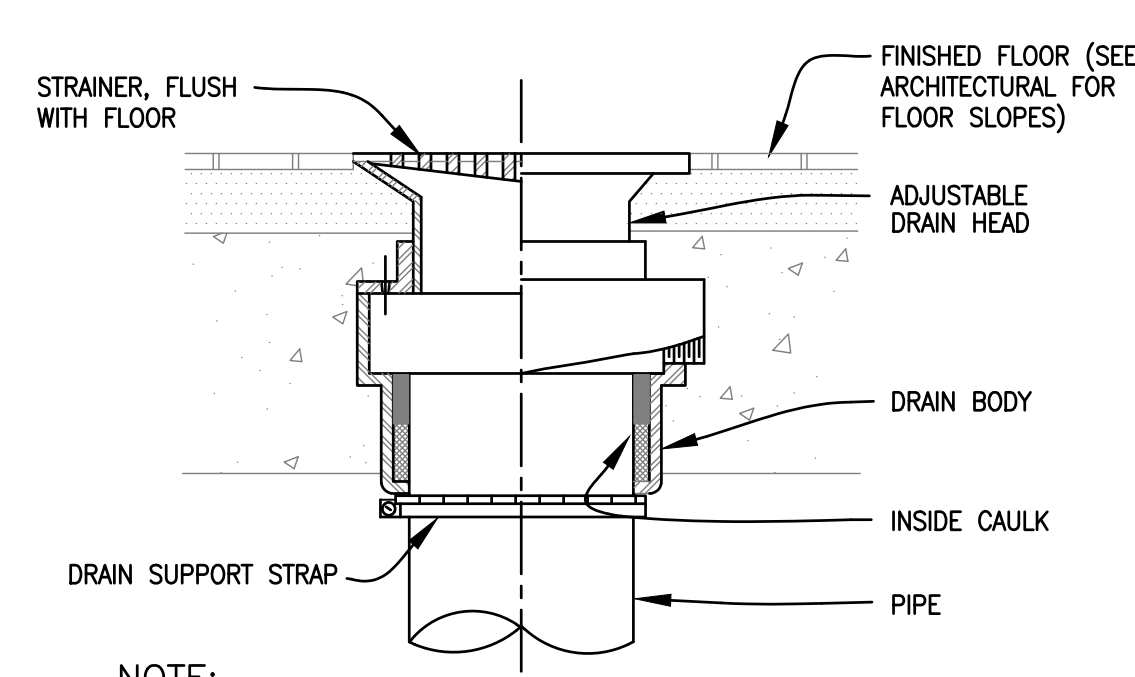
COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by law.





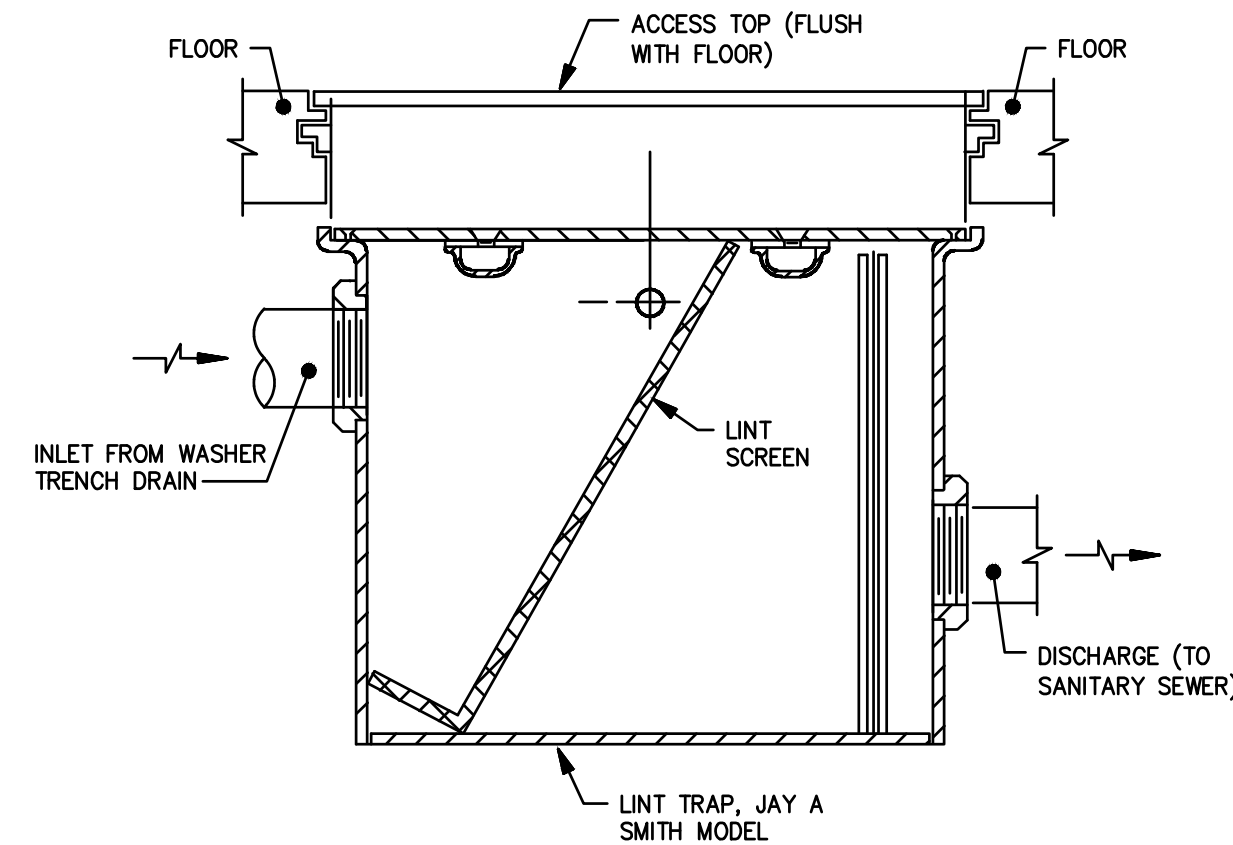
NOTE:  
A. FLOOR SINK COVER TO BE FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE

1 FLOOR SINK DETAIL  
SCALE: NONE  
P201

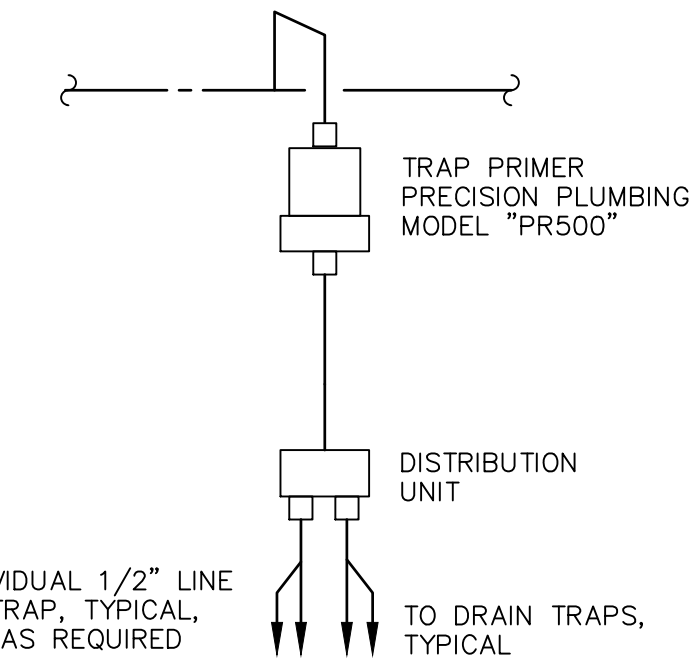


NOTE:  
A. FLOOR DRAIN COVER TO BE FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE.

2 TYPICAL FLOOR DRAIN DETAIL  
SCALE: NONE  
P201

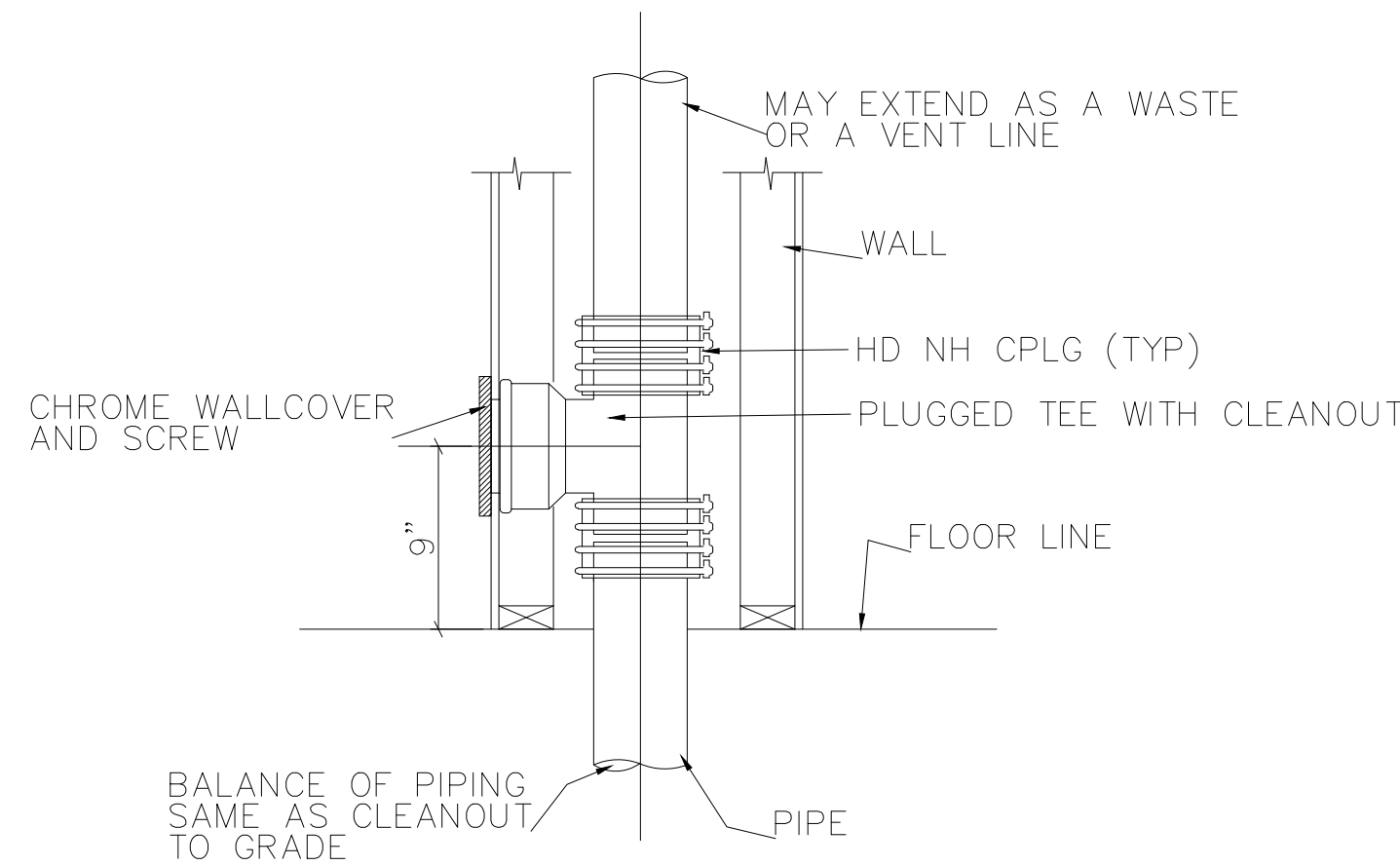


3 LINT TRAP DETAIL  
SCALE: NONE  
P201



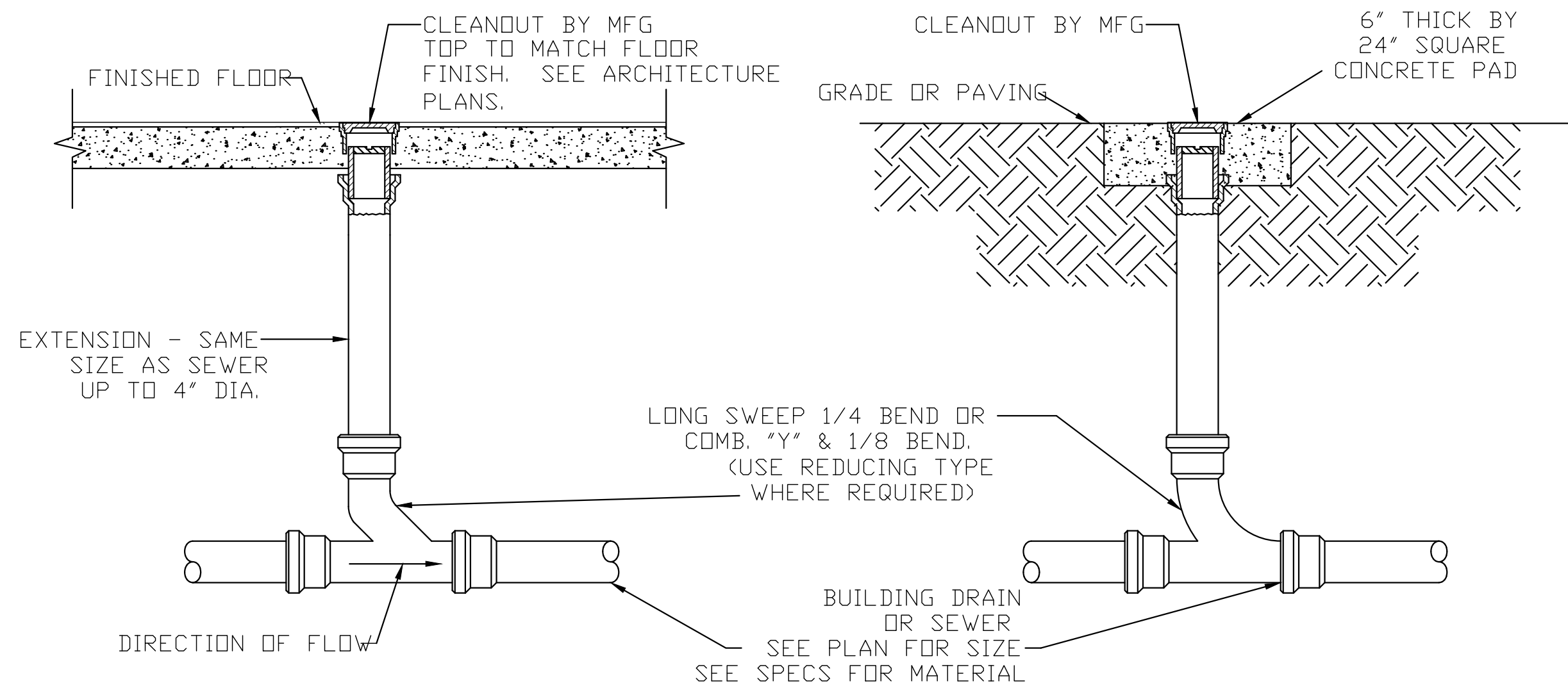
NOTE: TRAP PRIMER ARRANGEMENT FOR REMOVE DRAINS WITHOUT SINK CW STOP.

4 TRAP PRIMER DETAIL  
SCALE: NONE  
P201

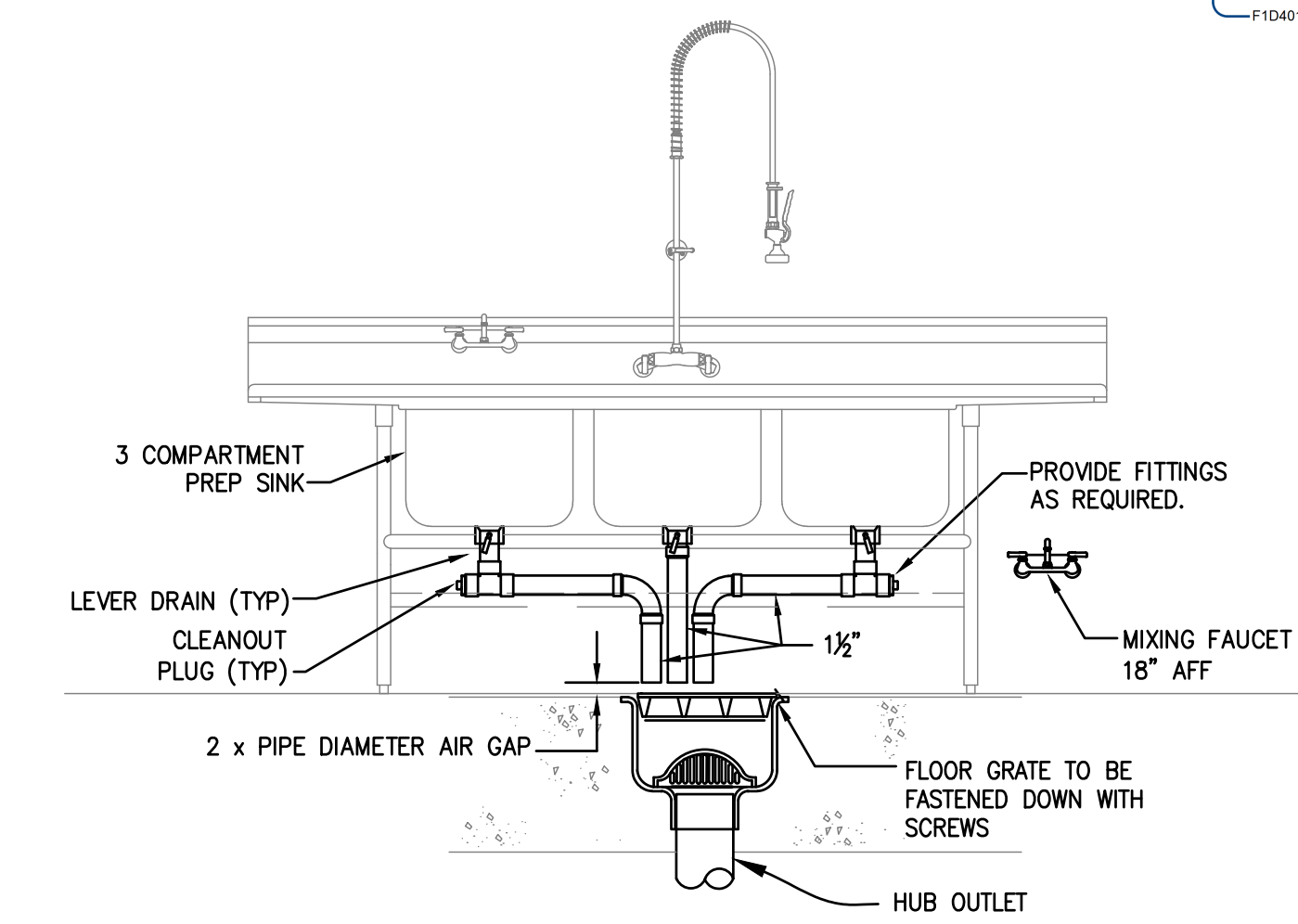


NOTE: CLEANOUT TO BE FLUSH WITH FINISHED WALL.

5 WALL CLEANOUT DETAIL (WCO)  
SCALE: NONE  
P201

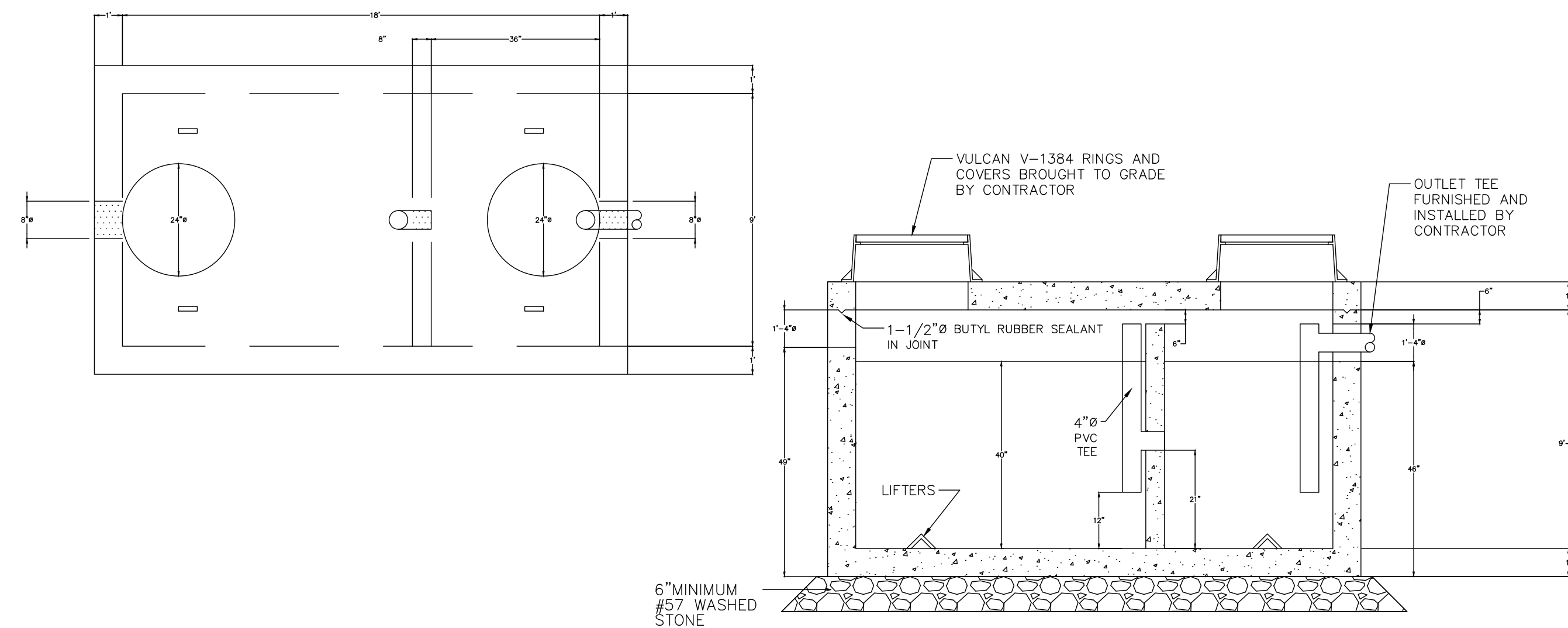


6 CLEANOUT DETAIL (CO)  
SCALE: NONE  
P201



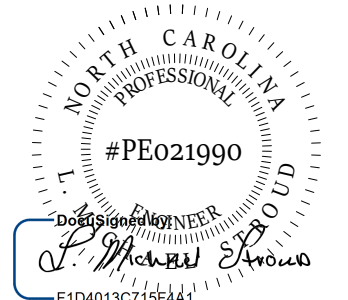
NOTE:  
1. FLOOR SINK COVER TO BE FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE

8 PREP SINK DETAIL  
SCALE: NONE  
P201



7 1,000 GALLON GREASE INTERCEPTOR DETAIL  
SCALE: NONE  
P201

STROUD ENGINEERING, P.A.  
422 HWY 24  
MOKREHEAD CITY, NC 28557  
(252) 247-7479  
LICENSE NO. C-0647



COPYRIGHT STATEMENT  
These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by law.

20 JANUARY, 2023

Matthew A Conte, AIA  
NC. REG.#15129



NC License #1919  
Mailing Address:  
424 E. Central Blvd., #542  
Orlando, FL 32801  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr., #307  
Orlando, FL 32803  
407.255.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS OF BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA COMMERCIAL CONTRACTORS**


ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407-745-5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

**P201**  
PLUMBING DETAILS



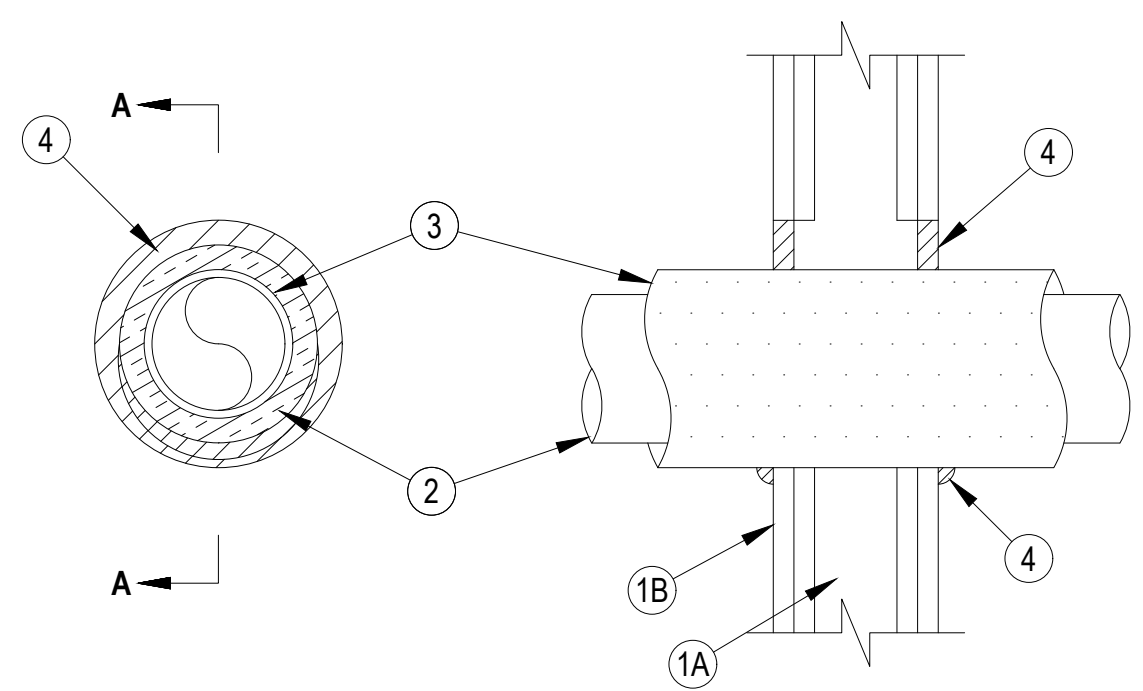


Classified by  
Underwriters Laboratories, Inc.  
to UL 1479 and CANULC-S115

**System No. W-L-5028**

|   |   |
|---|---|
| ANSI/UL1479 (ASTM E814)                     | CANULC S115                                 |
| F Ratings — 1 and 2 Hr (See Item 1)         | F Ratings — 1 and 2 Hr (See Item 1)         |
| T Ratings — 0, 3/4 and 1 Hr (See Item 3)    | FT Ratings — 0, 3/4 and 1 Hr (See Item 3)   |
| L Rating At Ambient — Less Than 1 CFM/sq ft | FH Ratings — 1 and 2 Hr (See Item 1)        |
| L Rating At 400 F — Less Than 1 CFM/sq ft   | FTH Ratings — 0, 3/4 and 1 Hr (See Item 3)  |
|   | L Rating At Ambient — Less Than 1 CFM/sq ft |
|   | L Rating At 400 F — Less Than 1 CFM/sq ft   |

WL 5028



**SECTION A-A**

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

- A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
- B. Gypsum Board\* — 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 7-1/2 in. (191 mm).

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrants — One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:


- A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
- B. Copper Tubing — Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tubing.
- C. Copper Pipe — Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Tube Insulation — Plastics+ — Min 1/2 in. (13 mm) to max 1 in. (25 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. An annular space of min 0 in. (point contact) to max 1-1/2 in. (38 mm) is required within the firestop system. The T, FT and FTH Ratings are 1 hr when the 1 in. (25 mm) thick tube insulation is used and 3/4 hr when the 3/4 in. (19 mm) thick tube insulation is used. When tube insulation thickness is less than 3/4 in. (19 mm), the T, FT and FTH Ratings are 0 Hr. See Plastics+ (QMF22) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

4. Fill, Void or Cavity Material\* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



**Hilti Firestop Systems**

Reproduced by HILTI, Inc. Courtesy of  
Underwriters Laboratories, Inc.  
January 27, 2015

Page: 1 of 1

1  
P202

1-2 HOUR RATED FIRE WALL PENETRATION DETAIL

SCALE: NONE

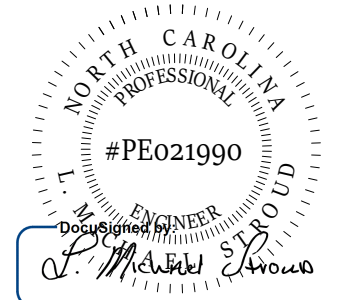
COPYRIGHT STATEMENT

These documents, their contents, and the ideas, designs, and concepts presented here-in are the property of ELEVEN18 Architecture and are issued only for the specific project noted on these documents. Holders of these documents that have established a mutually agreed contractual relationship with ELEVEN18 Architecture have been granted a limited license to reproduce these documents in relationship to the specific project referenced. All others are subject to US Copyright Law as defined by Title 17 of the United States Code and other regional laws as may apply. Any revisions, reproductions, modifications, or re-use of these documents without the express written consent of ELEVEN18 Architecture is prohibited by Law.

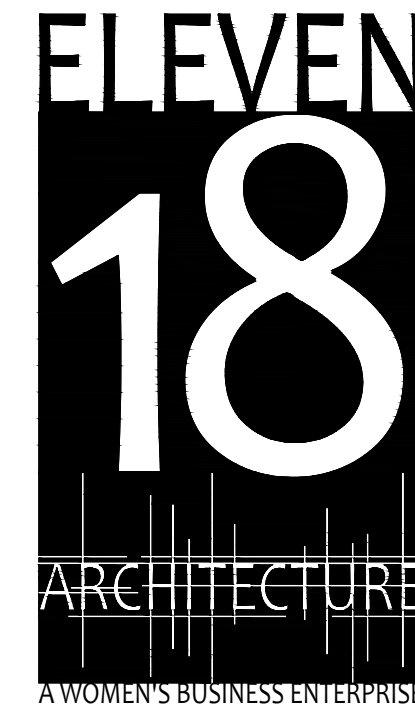
20 JANUARY,  
2023

**STROUD ENGINEERING, P.A.**  
422 HWY 24  
MORRHEAD CITY, NC 28557  
(252) 247-7179  
LICENSE NO. C-0647

**L. MICHAEL STROUD, P.E.**



Matthew A Conte, AIA  
NC. REG.#15129



NC License: 9199  
Mailing Address:  
424 E. Central Blvd #542  
Orlando, FL 32805  
www.eleven18architecture.com  
Physical Address:  
1011 E. Colonial Dr. #307  
Orlando, FL 32805  
407.755.5300  
© Copyright 2020 ELEVEN18 ARCHITECTURE, FL  
All Rights Reserved Worldwide

PROJECT NAME:  
**THE SPRINGS  
OF  
BALLENTINE**  
40 RAWLS CLUB RD  
FUQUAY-VARINA NC.

PROJECT CLIENT:  
**CAROLINA  
COMMERCIAL  
CONTRACTORS**

ELEVEN18 PROJECT LEAD:  
MATTHEW A. CONTE  
407-745-5301  
mconte@eleven18architecture.com

PROJECT TEAM:  
Gabriela Salazar  
Pamela Friday  
Yuan Ping Lien

| REVISIONS |           |                  |
|-----------|-----------|------------------|
| #         | DATE      | DESC.            |
| --        | --        | PERMIT SUBMITTAL |
|           | DATE      |                  |
| 1         | 1/20/2023 | REVISION 1       |
| 2         | 3/13/2023 | REVISION 2       |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |
|           |           |                  |

P202

PLUMBING DETAILS  
CONT.