

LIGHTING FIXTURES



POST LED

POWER DEVICES



PULL BOX



SURGE PROTECTION DEVICE, SEE SPECIFICATIONS.

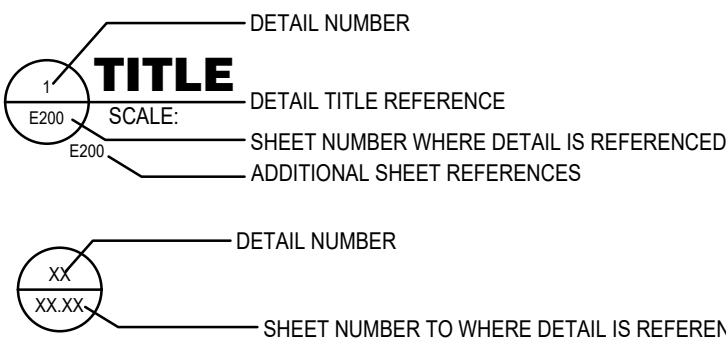


JUNCTION BOX



WALL MOUNTED/WEATHER PROOF JUNCTION BOX

MISCELLANEOUS SYMBOL LEGEND



POWER DISTRIBUTION



120/208V PANELBOARD, RECESSED



120/208V PANELBOARD, SURFACE MOUNT



277/480V PANELBOARD, SURFACE MOUNT



277/480V PANELBOARD, RECESSED



FEEDER OR BRANCH CIRCUIT CONCEALED IN WALL, CEILING OR FLOOR



HOMERUN CONSISTING OF ONE SINGLE-PHASE, 1-POLE CIRCUIT. SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.



HOMERUN CONSISTING OF ONE SINGLE-PHASE, 2-POLE CIRCUIT. SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.



HOMERUN CONSISTING OF TWO SINGLE-PHASE CIRCUITS. SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.



HOMERUN CONSISTING OF THREE SINGLE-PHASE CIRCUITS. SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.



HOMERUN CONSISTING OF ONE THREE-PHASE CIRCUITS. SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.



OVERHEAD BRANCH CIRCUIT



UNDERGROUND BRANCH CIRCUIT

ABBREVIATIONS

|       |                               |       |                                  |      |                                |
|-------|-------------------------------|-------|----------------------------------|------|--------------------------------|
| A     | AMPERES                       | EXIST | EXISTING                         | MCB  | MAIN CIRCUIT BREAKER           |
| AE    | AUDIO ENHANCEMENT             | EXP   | EXPLOSION PROOF                  | MCC  | MOTOR CONTROL CENTER           |
| AFC   | ABOVE FINISHED CEILING        | FA    | FIRE ALARM                       | MCP  | MOTOR CIRCUIT PROTECTOR        |
| AFF   | ABOVE FINISHED FLOOR          | FLA   | FULL LOAD AMPERES                | MFR  | MANUFACTURER                   |
| AFG   | ABOVE FINISHED GRADE          | FLUOR | FLUORESCENT                      | MH   | METAL HALIDE                   |
| AIC   | AMPERES INTERRUPTING CAPACITY | GFCI  | GROUND FAULT CIRCUIT INTERRUPTER | MIN  | MINIMUM                        |
| AL    | ALUMINUM                      | GFP   | GROUND FAULT PROTECTION          | MISC | MISCELLANEOUS                  |
| AWG   | AMERICAN WIRE GAUGE           | GND   | GROUND                           | MMS  | MANUAL MOTOR STARTER SWITCH    |
| BFC   | BELOW FINISHED CEILING        | HGT   | HEIGHT                           | MTR  | MOTOR                          |
| BFG   | BELOW FINISHED GRADE          | HID   | HIGH INTENSITY DISCHARGE         | MTD  | MOUNTED                        |
| C     | CONDUIT                       | HPS   | HIGH PRESSURE SODIUM             | MTG  | MOUNTING                       |
| CAB   | CABINET                       | HOA   | HAND-OFF-AUTOMATIC               | NAC  | NOTIFICATION APPLIANCE CIRCUIT |
| OKT   | CIRCUIT                       | HP    | HORSEPOWER                       | NEC  | NATIONAL ELECTRICAL CODE       |
| CLG   | CEILING                       | HVAC  | HEATING/VENTILATING/             | NL   | NIGHT LIGHT, UNSWITCHED        |
| CL    | CENTERLINE                    | HP    | HORSEPOWER                       | PNL  | PANEL                          |
| CTs   | CURRENT TRANSFORMERS          | HV    | HIGH VOLTAGE                     | PSI  | PULL STATION INSIDE            |
| CU    | COPPER                        | INC   | INCANDESCENT                     | PVC  | POLYVINYL CHLORIDE             |
| DISC  | DISCONNECT(ING)               | JB    | JUNCTION BOX                     | REC  | RECEPTACLE                     |
| DWG   | DRAWING(S)                    | KV    | KILO-VOLTS                       | RGS  | RIGID GALVANIZED STEEL         |
| EA    | EACH                          | KVA   | KILO-VOLTS-AMPERES               | SPD  | SURGE PROTECTION DEVICE        |
| ECB   | ENCLOSED CIRCUIT BREAKER      | KVAR  | KILO-VOLTS-AMPERES REACTIVE      | TEL  | TELEPHONE                      |
| EF    | EXHAUST FAN                   | KW    | KILO-WATTS                       | TYP  | TYPICAL                        |
| EMT   | ELECTRICAL METALLIC TUBING    | KWH   | KILO-WATT-HOURS                  | UN   | UNLESS OTHERWISE NOTED         |
| EQUIP | EQUIPMENT                     | LTG   | LIGHTING                         | V    | VOLTS                          |
| ELH   | ELECTRIC UNIT HEATER          | m     | METER                            | VA   | VOLT-AMPERES                   |
| EW    | ELECTRIC WATER COOLER         | mm    | MILLIMETER                       | VFD  | VARIABLE FREQUENCY DRIVE       |
| EW    | ELECTRIC WATER HEATER         | MAX   | MAXIMUM                          | W    | WATTS                          |
| EXH   | EXHAUST                       |       |                                  | WP   | WEATHER PROOF                  |
|       |                               |       |                                  | XFMR | TRANSFORMER                    |

GENERAL NOTES:

- ALL ELECTRICAL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH ALL GOVERNING CODES AND STANDARDS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
    - NFPA 70 NATIONAL ELECTRICAL CODE (2017 EDITION)
    - FLORIDA BUILDING CODE (SEVENTH EDITION 2020)
    - NFPA 72 NATIONAL FIRE CODE (2016 EDITION)
    - FLORIDA FIRE PREVENTION CODE (SEVENTH EDITION 2020)
    - LOCAL REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION
  - THE CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THIS WORK SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THIS CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE INSTALLED. EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED AND WHERE TO BE LOCATED, IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS, ASSUME THE MOST STRINGENT AND/OR COSTLY REQUIREMENT APPLIES.
  - THE CONTRACTOR SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL DATA PERTAINING TO FURNISHED EQUIPMENT. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRING, DISCONNECT SWITCHES, AND ASSOCIATED HARDWARE AS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS. COORDINATE AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED DUCTS, OPENINGS AND OTHER STRUCTURAL FEATURES.
  - WHERE THE CONTRACTOR DETERMINES THAT HIS SYSTEM WILL REQUIRE ADDITIONAL 120VAC POWER SUPPLIES IN LOCATIONS OTHER THAN SHOWN ON THE DRAWINGS AND IN THE BOOK SPECIFICATIONS, HE SHALL COORDINATE THESE REQUIREMENTS FOR ADDITIONAL POWER AND ALL COSTS FOR NEW BREAKERS, CONDUIT, WIRE, SURGE SUPPRESSORS AND ANY OTHER REQUIREMENTS SHALL BE INCLUDED IN THIS CONTRACTORS BID.
  - EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT SHALL BE FOLLOWED TO INSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS MUST BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.
  - THE BUSINESS OPERATION OF THE BUILDING SHALL NOT BE DISRUPTED DURING THE EXECUTION OF THIS WORK WITHOUT PRIOR NOTIFICATION AND APPROVAL BY THE OWNER.
  - ALL EXISTING ITEMS DESIGNATED TO REMAIN, SUCH AS LIGHTING FIXTURES, OUTLETS, SWITCHES, FIRE ALARM DEVICES, ETC. THAT ARE IN CONFLICT WITH NEW CEILING OR WALLS, SHOULD BE RELOCATED AND LEFT IN OPERATION. CONTRACTOR TO WALK THE SITE AND BECOME FAMILIAR WITH RELOCATION OF EXISTING DEVICES PRIOR TO CONSTRUCTION.
  - WHERE CIRCUITS ARE INDICATED TO BE INSTALLED IN EXISTING PANELS, VERIFY ACTUAL SPARES OR SPACES IN SAID PANELBOARDS AND USE THE
- SPARE DEVICES OR FURNISH NEW CIRCUIT BREAKERS AS INDICATED ON THE DRAWINGS.
- WHERE THE CONTRACTOR PROPOSES ALTERNATE SOLUTIONS, DIFFERENT ROUTINGS OF CONDUIT, DIFFERENT LOCATIONS OF EQUIPMENT, ETC., THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OF THE RAMIFICATIONS OF THE PROPOSED CHANGE THAT ARE NOT INCLUDED IN HIS PROPOSAL, BUT BECOME APPARENT AT A LATER DATE, AND SHALL BEAR THE CONSEQUENCES OF CORRECTING ANY AND ALL CONFLICTS, DEFICIENCIES OR OTHER PROBLEMS AT NO INCREASE IN COST OR INCREASE IN CONSTRUCTION TIME ALLOTTED.
- THE CONTRACTOR SHALL INCLUDE IN HIS SCOPE: (1) THE LABOR AND MATERIALS REQUIRED FOR CREATING OPENINGS FOR CONDUIT PENETRATIONS THROUGH WALLS, SLABS AND ROOF STRUCTURES; AS WELL AS THE SEALING OF THESE PENETRATIONS; (2) THE ROUTING OF CONDUITS AROUND IMPENETRABLE OBSTACLES, SUCH AS POURED-IN-PLACE BEAMS, COLUMNS, LINTELS AND SIMILAR OBSTRUCTIONS AND; (3) THE SEALING OF PENETRATIONS OF CONDUITS INTO WHICH NEW WIRE IS PULLED AS A PART OF THIS PROJECT, TO INCLUDE FIREPROOFING WHERE NECESSARY.
- IF THE INTENT OF THE ENGINEER WITH REGARD TO ANY DETAIL IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS SHALL BE BROUGHT TO THE ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ENGINEER SHALL ISSUE CORRECTION OR CLARIFICATION IN WRITING. OTHERWISE, NO EXTRA COSTS OR EXTENSIONS OF TIME WILL BE ALLOWED FOR THE WORK OR MATERIAL THAT THE A/E WILL REQUIRE, PROVIDED THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS.
- NO WIRING SHALL BE DONE PRIOR TO THE CONTRACTOR'S REVIEW OF THE PROJECT EQUIPMENT SHOP DRAWINGS AND COORDINATION WITH THE DESIGN DOCUMENTS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER ATTENTION FOR FINAL RESOLUTION. WORK THAT HAS TO BE REPLACED DUE TO LACK OF PROPER SHOP DRAWINGS CO-ORDINATION SHALL BE DONE AT CONTRACTORS EXPENSE
- EXISTING SYSTEMS SHOWN ARE BASED ON VISUAL INSPECTION AND EXISTING DRAWINGS, BUT THEY MAY NOT REFLECT THE ACTUAL CONDITIONS IN EVERY CASE. THE CONTRACTOR SHALL INSPECT THE SITE AND EXAMINE THE WORK BEFORE SUBMITTING HIS PROPOSAL. THE CONTRACTOR SHALL NOTE THE LOCATION OF EXISTING FACILITIES, THE EXTENT OF HIS WORK, AND INTERFERENCE BY OTHER TRADES WITH HIS WORK. ANY DISCREPANCIES SHOULD BE DISCUSSED WITH THE ENGINEER. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
- FIRESTOP ALL PENETRATIONS (MADE BY THIS CONTRACTOR) THROUGH FIRE-RATED WALLS, FLOORS AND CEILINGS.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO THIS CONTRACTOR'S WORK. PATCH ALL UNUSED

OPENINGS (CREATED BY THIS CONTRACTOR) TO MATCH SURROUNDING CONDITIONS.

CONDUIT RUNS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC. ALL CONDUITS SHALL BE RUN CONCEALED, EXCEPT IN EQUIPMENT ROOMS AND WHERE APPROVED BY THE ENGINEER.

FURNISH AND INSTALL EQUIPMENT DISCONNECT SWITCHES IN STRICT COMPLIANCE WITH APPLICABLE CODE REQUIREMENTS. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP. WIRING TO RECEPTACLES SHALL BE #12 THWN MINIMUM.

EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR SHALL PROVIDE NEW CONDUIT FOR ALL CONDUCTORS THAT ARE INSTALLED AS A PART OF THIS PROJECT. INSULATED PLASTIC BUSHINGS ARE TO BE PROVIDED ON ALL CONDUIT STUB-OUTS AND STUB-UPS.

THE INSTALLATION OF ALL DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FULLY ADA AND NFPA COMPLIANT.

THE CONTRACTOR SHALL VERIFY THE EXACT DIRECTION OF ALL DOOR SWINGS PRIOR TO ROUGH-IN OF BOXES MOUNTED IN WALLS.

THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EQUIPMENT TO BE COMPLETELY FREE OF INTERNAL DEBRIS AND EXTERIOR PAINT, MARKS, DIRT AND ALL SCRATCHES SHALL BE TOUCHED UP.

ALL EMPTY/SPARE CONDUITS SHALL HAVE PULL STRINGS WITH LABELING TAGS AT EACH END.

ALL RACEWAYS SHALL HAVE A GREEN INSULATED COPPER EQUIPMENT-GROUNDING CONDUCTOR.

ALL BRANCH CIRCUITS AND FEEDERS SHALL BE PROVIDE WITH SEPARATE GROUNDING CONDUCTORS.

ALL EXTERIOR MOUNTED FIXTURES, POLES, AND BASES SHALL BE DESIGNED AND MANUFACTURED TO WITHSTAND 180MPH WIND.

PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR ALL EXTERIOR POLE MOUNTED FIXTURES WITH SIGNATURE AND SEAL OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER CERTIFYING THAT THE FOUNDATION AND POLE/FIXTURE ASSEMBLY MEETS OR EXCEEDS SREF AND ASCE 7. THE EXTERIOR POLE MOUNTED LIGHT FIXTURE ASSEMBLIES SHALL BE CAPABLE OF WITHSTANDING WINDLOADS IN ACCORDANCE WITH ASCE 7-10. DESIGN WIND VELOCITY SHALL BE 180 MPH.

KEY PLAN (NOT TO SCALE):

SEAL:

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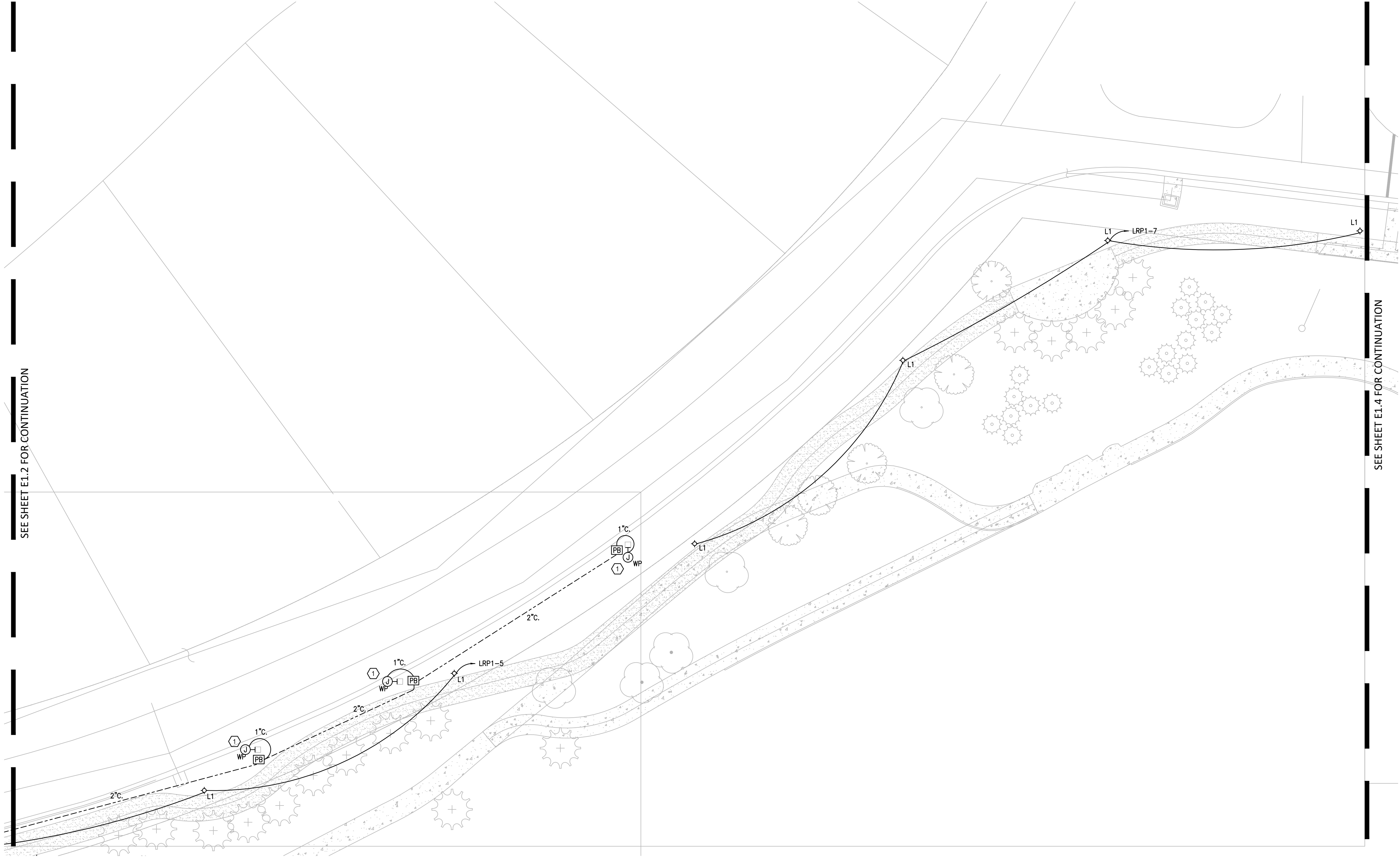
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APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

FLA. REGISTRATION NO. \_\_\_\_\_







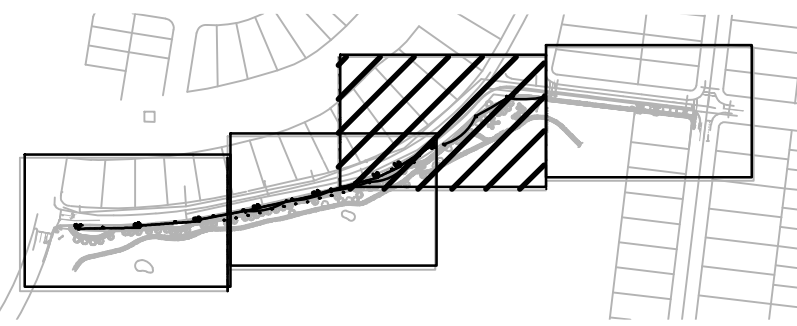
GENERAL NOTES:

- a. REFER TO SYMBOL, LEGEND, GENERAL NOTES AND LIGHTING FIXTURE SCHEDULE ON SHEET E0.1
- b. REFER TO BOOK SPECIFICATIONS.
- c. COORDINATE WORK WITH ALL OTHER TRADES BEFORE ANY ROUGH-INS.
- d. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.
- e. ALL BRANCH CIRCUITS TO BE PROVIDED WITH DEDICATED NEUTRAL.
- f. REFER TO DETAILS FOR ALL UNDERGROUND CONDUITS.
- g. REFER TO DETAILS FOR POLE MOUNTING.

PLAN KEY NOTES:

- 1. PROVIDE JUNCTION BOX FOR FUTURE CCTV MOUNTED ON EXISTING FPL POLE +12' AFF.

KEY PLAN (NOT TO SCALE):



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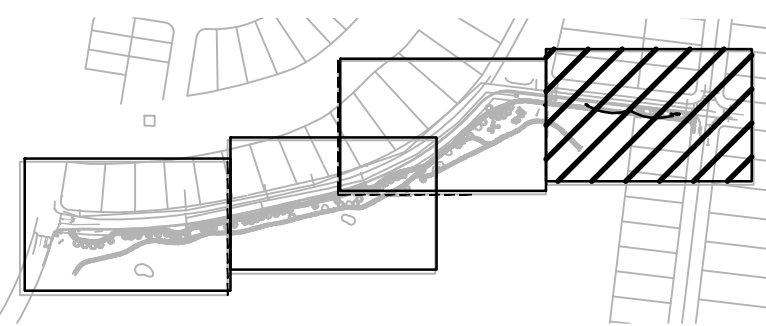


SEE SHEET E1.3 FOR CONTINUATION

GENERAL NOTES:

- a. REFER TO SYMBOL, LEGEND, GENERAL NOTES AND LIGHTING FIXTURE SCHEDULE ON SHEET E0.1
- b. REFER TO BOOK SPECIFICATIONS.
- c. COORDINATE WORK WITH ALL OTHER TRADES BEFORE ANY ROUGH-INS.
- d. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.
- e. ALL BRANCH CIRCUITS TO BE PROVIDED WITH DEDICATED NEUTRAL.
- f. REFER TO DETAILS FOR ALL UNDERGROUND CONDUITS.
- g. REFER TO DETAILS FOR POLE MOUNTING.

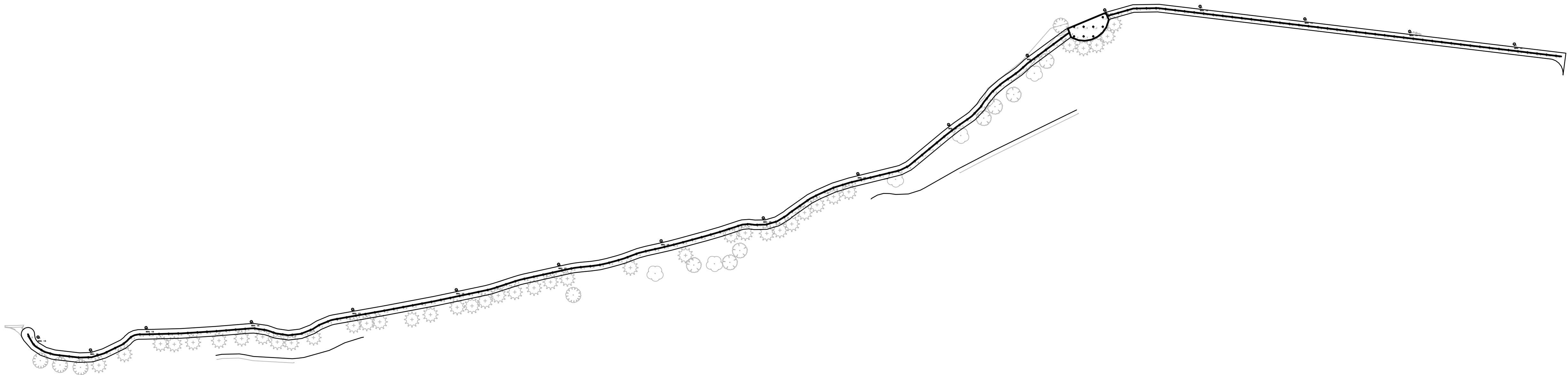
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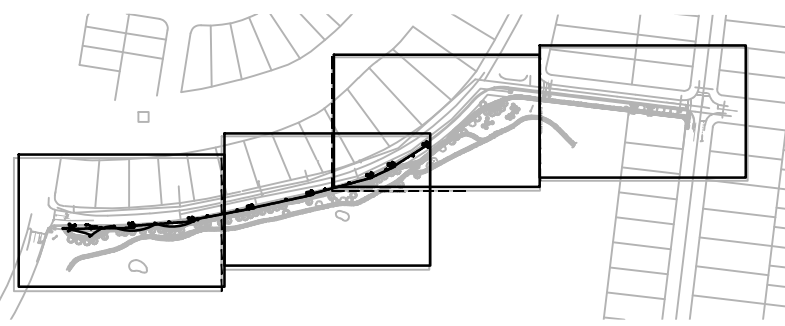
| Luminaire Schedule |     |       |                                                              |       |            |             |
|--------------------|-----|-------|--------------------------------------------------------------|-------|------------|-------------|
| Symbol             | Qty | Label | Description                                                  | LLD   | Lum. Watts | Total Watts |
|                    | 17  | L1    | SPRING CITY ALMALN-M1-LED070-EVX-263-HSS-40-CR3-YCLO-RAL7047 | 1.000 | 68.684     | 1167.628    |

| Calculation Summary |     |     |     |         |         |
|---------------------|-----|-----|-----|---------|---------|
| Label               | Avg | Max | Min | Avg/Min | Max/Min |
| PEDESTRIAN PATH     | 1.4 | 2.8 | 0.4 | 3.4     | 7.0     |

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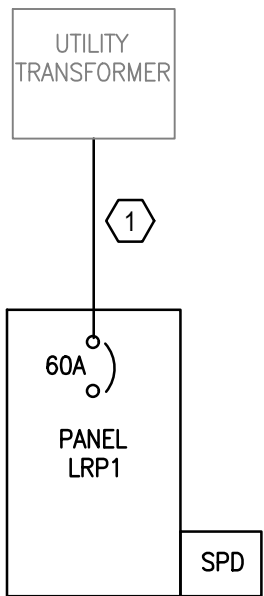
KEY PLAN (NOT TO SCALE):



SEAL:

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
FLA REGISTRATION NO. \_\_\_\_\_

| PANEL FEEDER SCHEDULE:                                                                      |      |       |    |      |           |      |         |                 |             | * WIRE SIZES ARE BASED ON NFPA 70 TABLE 310.15(B)(16) 60 DEGREE C/J COLUMN FOR SIZES OF 100A AND LESS, ALL OTHERS BASED ON 75 DEGREE COLUMN<br>**LOAD AMPS AND DISTANCE SHOWN FOR VD CALCULATION ONLY. SEE PANEL SCHEDULE FOR ACTUAL LOAD. ACTUAL DISTANCE MAY VARY DEPENDENT ON ROUTING |      |                |           |          |          |         |                |           |              |                   |                |       |
|---------------------------------------------------------------------------------------------|------|-------|----|------|-----------|------|---------|-----------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------|-----------|----------|----------|---------|----------------|-----------|--------------|-------------------|----------------|-------|
| FEEDER DESCRIPTION                                                                          |      | VOLTS | PH | NEUT | 200% NEUT | GRND | ISO GND | MAIN OCF RATING | LOAD AMPS** | DISCONNECT SIZE / FUSE                                                                                                                                                                                                                                                                   | NEUA | WIRE PER FASE* | NEUT WIRE | ADD NEUT | GND WIRE | ISO GND | SYST BOND JUMP | # OF RUNS | CONDUIT SIZE | APPROX DIST.** FT | VOLT DROP VDP% | NOTES |
| SOURCE                                                                                      | LOAD |       |    | Y/N  | Y/N       | Y/N  | Y/N     |                 |             |                                                                                                                                                                                                                                                                                          |      |                |           |          |          |         |                |           |              |                   |                |       |
| FPL                                                                                         | LRPI | 240   | 1  | Y    | N         | Y    | N       |                 | 60          | 17                                                                                                                                                                                                                                                                                       |      | #3             | #3        |          | #4       |         | #8             | 1         | 1-1/4"       | 500               | 1.77%          |       |
|                                                                                             |      |       |    |      |           |      |         |                 |             |                                                                                                                                                                                                                                                                                          |      |                |           |          |          |         |                |           |              |                   |                |       |
| <b>GENERAL NOTES:</b>                                                                       |      |       |    |      |           |      |         |                 |             | <b>NOTES:</b>                                                                                                                                                                                                                                                                            |      |                |           |          |          |         |                |           |              |                   |                |       |
| (1) - PROVIDE DISC. SW. AT ALL PIECES OF EQUIPMENT, UNLESS OTHERWISE NOTED ON THIS SCHEDULE |      |       |    |      |           |      |         |                 |             | (a) - ROUTE ALL FEEDERS CONCEALED FROM PUBLIC VIEW                                                                                                                                                                                                                                       |      |                |           |          |          |         |                |           |              |                   |                |       |
| (2) - FUSES SHOWN FOR REFERENCE ONLY. PROVIDE FUSES AS RECOMMENDED BY EQUIP. MANUF.         |      |       |    |      |           |      |         |                 |             |                                                                                                                                                                                                                                                                                          |      |                |           |          |          |         |                |           |              |                   |                |       |
| (3) - PROVIDE NEUA OUTDOOR RATED ENCLOSURES FOR ALL DISC. SW'S MOUNTED OUTDOORS.            |      |       |    |      |           |      |         |                 |             |                                                                                                                                                                                                                                                                                          |      |                |           |          |          |         |                |           |              |                   |                |       |
| (4) - COORDINATE STARTER TYPE WITH MECHANICAL EQUIPMENT INSTALLER.                          |      |       |    |      |           |      |         |                 |             |                                                                                                                                                                                                                                                                                          |      |                |           |          |          |         |                |           |              |                   |                |       |
| (5) - E.C. TO VERIFY THAT C.B. FOR COMPRESSORS IS SUFFICIENT TO ALLOW STARTING OF UNIT, IF  |      |       |    |      |           |      |         |                 |             |                                                                                                                                                                                                                                                                                          |      |                |           |          |          |         |                |           |              |                   |                |       |
| (6) - #12 FEEDERS SHOWN AND OVER 50FT. LONG TO BE #10 WIRE FOR 120V CIRCUITS.               |      |       |    |      |           |      |         |                 |             |                                                                                                                                                                                                                                                                                          |      |                |           |          |          |         |                |           |              |                   |                |       |
| #12 FEEDERS SHOWN AND OVER 100FT. LONG TO BE #10 WIRE FOR 277V CIRCUITS.                    |      |       |    |      |           |      |         |                 |             |                                                                                                                                                                                                                                                                                          |      |                |           |          |          |         |                |           |              |                   |                |       |
| <b>ABBREVIATIONS:</b>                                                                       |      |       |    |      |           |      |         |                 |             |                                                                                                                                                                                                                                                                                          |      |                |           |          |          |         |                |           |              |                   |                |       |
| N.F. = NON-FUSED                                                                            |      |       |    |      |           |      |         |                 |             |                                                                                                                                                                                                                                                                                          |      |                |           |          |          |         |                |           |              |                   |                |       |
| ECB = ENCLOSED CIRCUIT BREAKER                                                              |      |       |    |      |           |      |         |                 |             |                                                                                                                                                                                                                                                                                          |      |                |           |          |          |         |                |           |              |                   |                |       |
| 3R = NEMA 3R ENCLOSURE                                                                      |      |       |    |      |           |      |         |                 |             |                                                                                                                                                                                                                                                                                          |      |                |           |          |          |         |                |           |              |                   |                |       |
| 4X = NEMA 4 W.P. STAINLESS STEEL ENCL.                                                      |      |       |    |      |           |      |         |                 |             |                                                                                                                                                                                                                                                                                          |      |                |           |          |          |         |                |           |              |                   |                |       |



- a. REFER TO SYMBOL, LEGEND, GENERAL NOTES AND LIGHTING FIXTURE SCHEDULE ON SHEET E-001.
- b. REFER TO BOOK SPECIFICATIONS.

1. REFER TO PANEL FEEDER SCHEDULE FOR WIRE AND CONDUIT SIZES.

| PANEL FEEDER SCHEDULE:                                                                      |      |       |    | * WIRE SIZES ARE BASED ON NFPA 70 TABLE 310.15(B)(16) 60 DEGREE C/J COLUMN FOR SIZES OF 100A AND LESS, ALL OTHERS BASED ON 75 DEGREE COLUMN<br>**LOAD AMPS AND DISTANCE SHOWN FOR VD CALCULATION ONLY. SEE PANEL SCHEDULE FOR ACTUAL LOAD. ACTUAL DISTANCE MAY VARY DEPENDENT ON ROUTING |           |      |         |                 |             |                        |       |                                                    |           |          |          |         |                |           |              |                   |                |       |  |
|---------------------------------------------------------------------------------------------|------|-------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|---------|-----------------|-------------|------------------------|-------|----------------------------------------------------|-----------|----------|----------|---------|----------------|-----------|--------------|-------------------|----------------|-------|--|
| FEEDER DESCRIPTION                                                                          |      | VOLTS | PH | NEUT                                                                                                                                                                                                                                                                                     | 200% NEUT | GRND | ISO GND | MAIN OCF RATING | LOAD AMPS** | DISCONNECT SIZE / FUSE | NEUMA | WIRE PER PHASE*                                    | NEUT WIRE | ADD NEUT | GND WIRE | ISO GND | SYST BOND JUMP | # OF RUNS | CONDUIT SIZE | APPROX DIST.** FT | VOLT DROP VDP% | NOTES |  |
| SOURCE                                                                                      | LOAD |       |    | Y/N                                                                                                                                                                                                                                                                                      | Y/N       | Y/N  | Y/N     |                 |             |                        |       |                                                    |           |          |          |         |                |           |              |                   |                |       |  |
| FPL                                                                                         | LRPI | 240   | 1  | Y                                                                                                                                                                                                                                                                                        | N         | Y    | N       |                 | 60          | 17                     |       | #3                                                 | #3        |          | #4       |         | #8             | 1         | 1-1/4"       | 500               | 1.77%          |       |  |
|                                                                                             |      |       |    |                                                                                                                                                                                                                                                                                          |           |      |         |                 |             |                        |       |                                                    |           |          |          |         |                |           |              |                   |                |       |  |
| GENERAL NOTES:                                                                              |      |       |    |                                                                                                                                                                                                                                                                                          |           |      |         |                 |             |                        |       | NOTES:                                             |           |          |          |         |                |           |              |                   |                |       |  |
| (1) - PROVIDE DISC. SW. AT ALL PIECES OF EQUIPMENT, UNLESS OTHERWISE NOTED ON THIS SCHEDULE |      |       |    |                                                                                                                                                                                                                                                                                          |           |      |         |                 |             |                        |       | (a) - ROUTE ALL FEEDERS CONCEALED FROM PUBLIC VIEW |           |          |          |         |                |           |              |                   |                |       |  |
| (2) - FUSES SHOWN FOR REFERENCE ONLY. PROVIDE FUSES AS RECOMMENDED BY EQUIP. MANUF.         |      |       |    |                                                                                                                                                                                                                                                                                          |           |      |         |                 |             |                        |       |                                                    |           |          |          |         |                |           |              |                   |                |       |  |
| (3) - PROVIDE NEUMA OUTDOOR RATED ENCLOSURES FOR ALL DISC. SW'S MOUNTED OUTDOORS.           |      |       |    |                                                                                                                                                                                                                                                                                          |           |      |         |                 |             |                        |       |                                                    |           |          |          |         |                |           |              |                   |                |       |  |
| (4) - COORDINATE STARTER TYPE WITH MECHANICAL EQUIPMENT INSTALLER.                          |      |       |    |                                                                                                                                                                                                                                                                                          |           |      |         |                 |             |                        |       |                                                    |           |          |          |         |                |           |              |                   |                |       |  |
| (5) - E.C. TO VERIFY THAT C.B. FOR COMPRESSORS IS SUFFICIENT TO ALLOW STARTING OF UNIT, IF  |      |       |    |                                                                                                                                                                                                                                                                                          |           |      |         |                 |             |                        |       |                                                    |           |          |          |         |                |           |              |                   |                |       |  |
| (6) - #12 FEEDERS SHOWN AND OVER 50FT. LONG TO BE #10 WIRE FOR 120V CIRCUITS.               |      |       |    |                                                                                                                                                                                                                                                                                          |           |      |         |                 |             |                        |       |                                                    |           |          |          |         |                |           |              |                   |                |       |  |
| #12 FEEDERS SHOWN AND OVER 100FT. LONG TO BE #10 WIRE FOR 277V CIRCUITS.                    |      |       |    |                                                                                                                                                                                                                                                                                          |           |      |         |                 |             |                        |       |                                                    |           |          |          |         |                |           |              |                   |                |       |  |
| ABBREVIATIONS:                                                                              |      |       |    |                                                                                                                                                                                                                                                                                          |           |      |         |                 |             |                        |       |                                                    |           |          |          |         |                |           |              |                   |                |       |  |
| N.F. = NON-FUSED                                                                            |      |       |    |                                                                                                                                                                                                                                                                                          |           |      |         |                 |             |                        |       |                                                    |           |          |          |         |                |           |              |                   |                |       |  |
| ECB = ENCLOSED CIRCUIT BREAKER                                                              |      |       |    |                                                                                                                                                                                                                                                                                          |           |      |         |                 |             |                        |       |                                                    |           |          |          |         |                |           |              |                   |                |       |  |
| 3R = NEUMA 3R ENCLOSURE                                                                     |      |       |    |                                                                                                                                                                                                                                                                                          |           |      |         |                 |             |                        |       |                                                    |           |          |          |         |                |           |              |                   |                |       |  |
| 4X = NEUMA 4 W.P. STAINLESS STEEL ENCL.                                                     |      |       |    |                                                                                                                                                                                                                                                                                          |           |      |         |                 |             |                        |       |                                                    |           |          |          |         |                |           |              |                   |                |       |  |

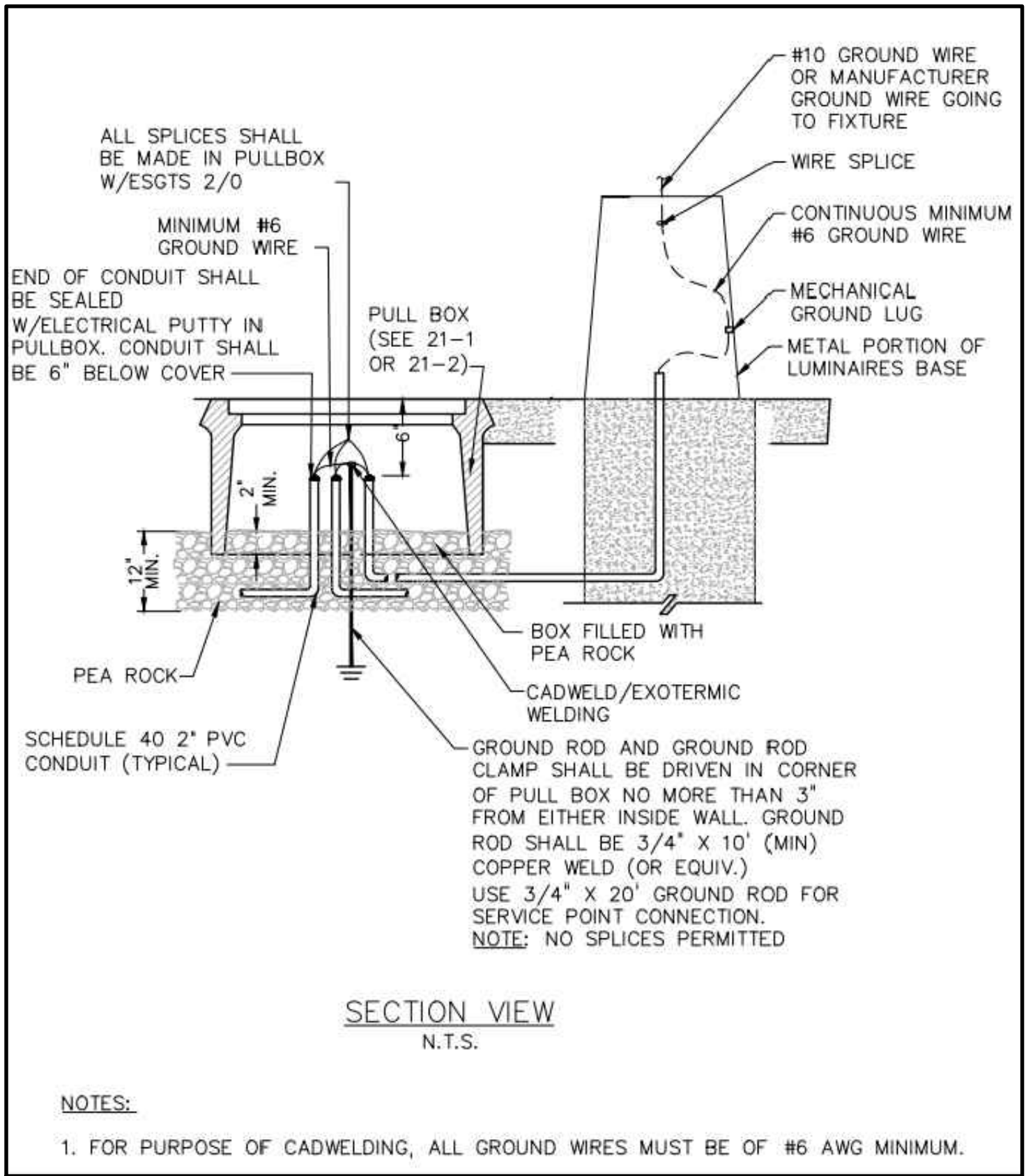
KEY PLAN (NOT TO SCALE):

SEAL:

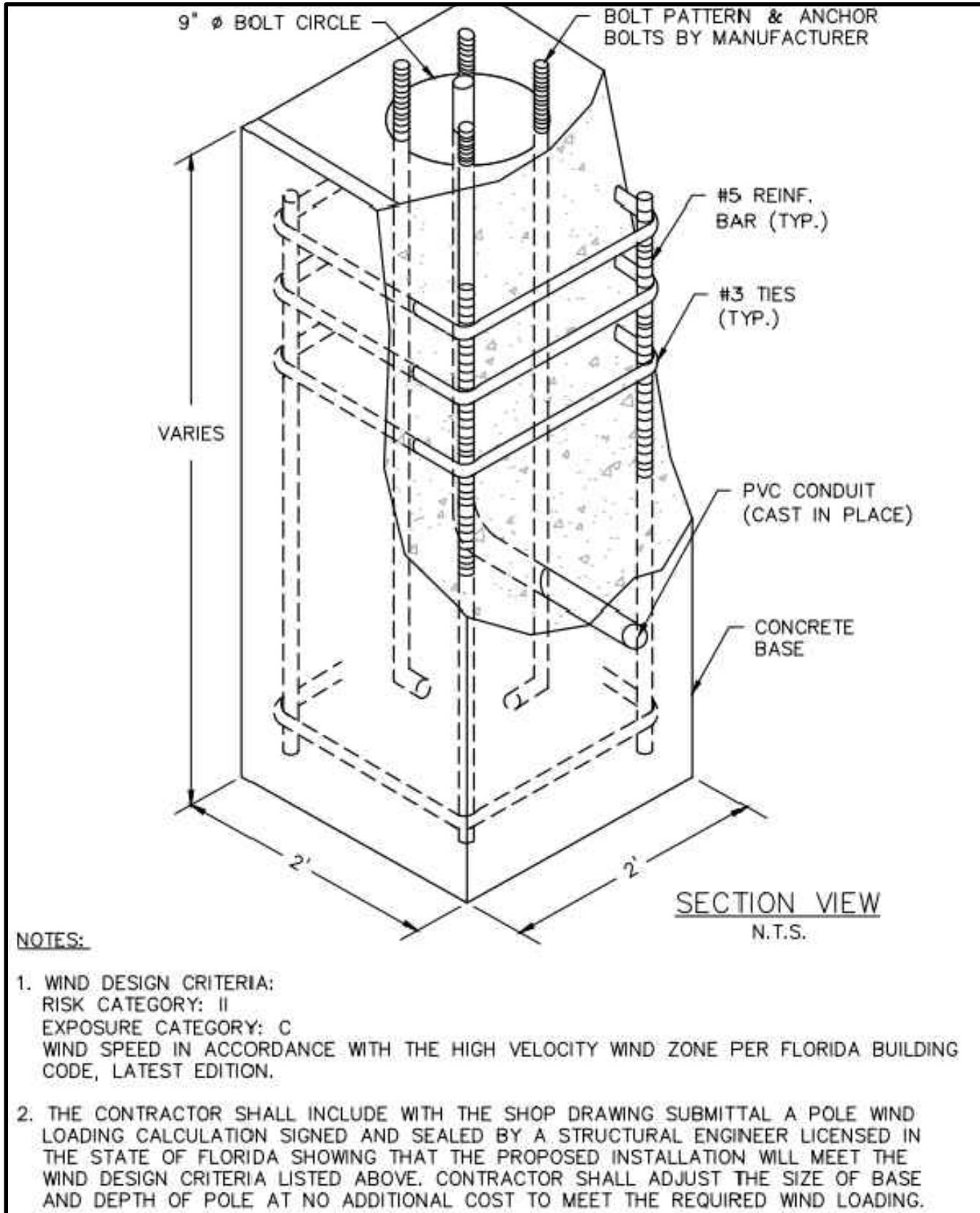
This item has been digitally signed and sealed by Enrique Gomez, P.E. on the date adjacent to the seal.

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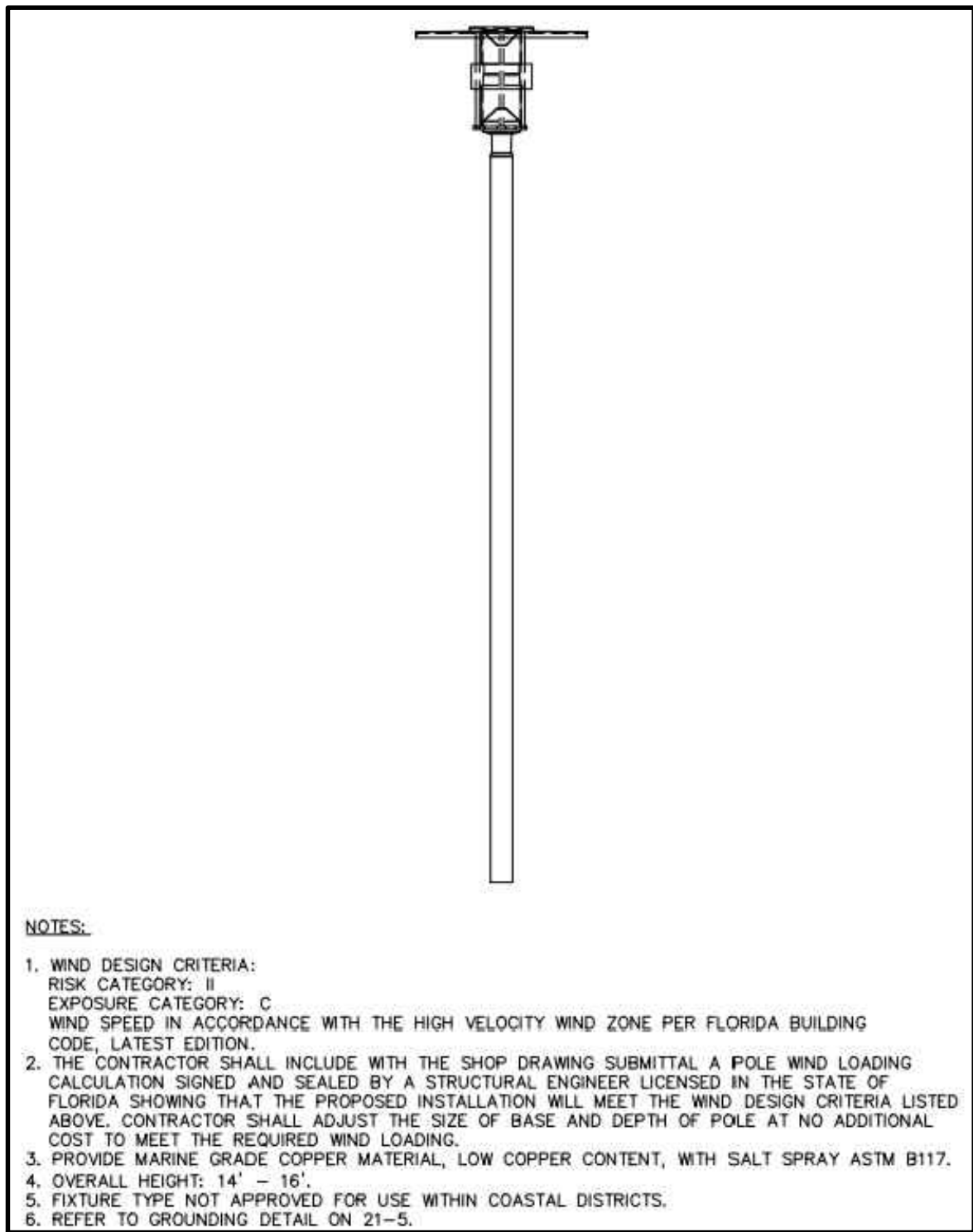




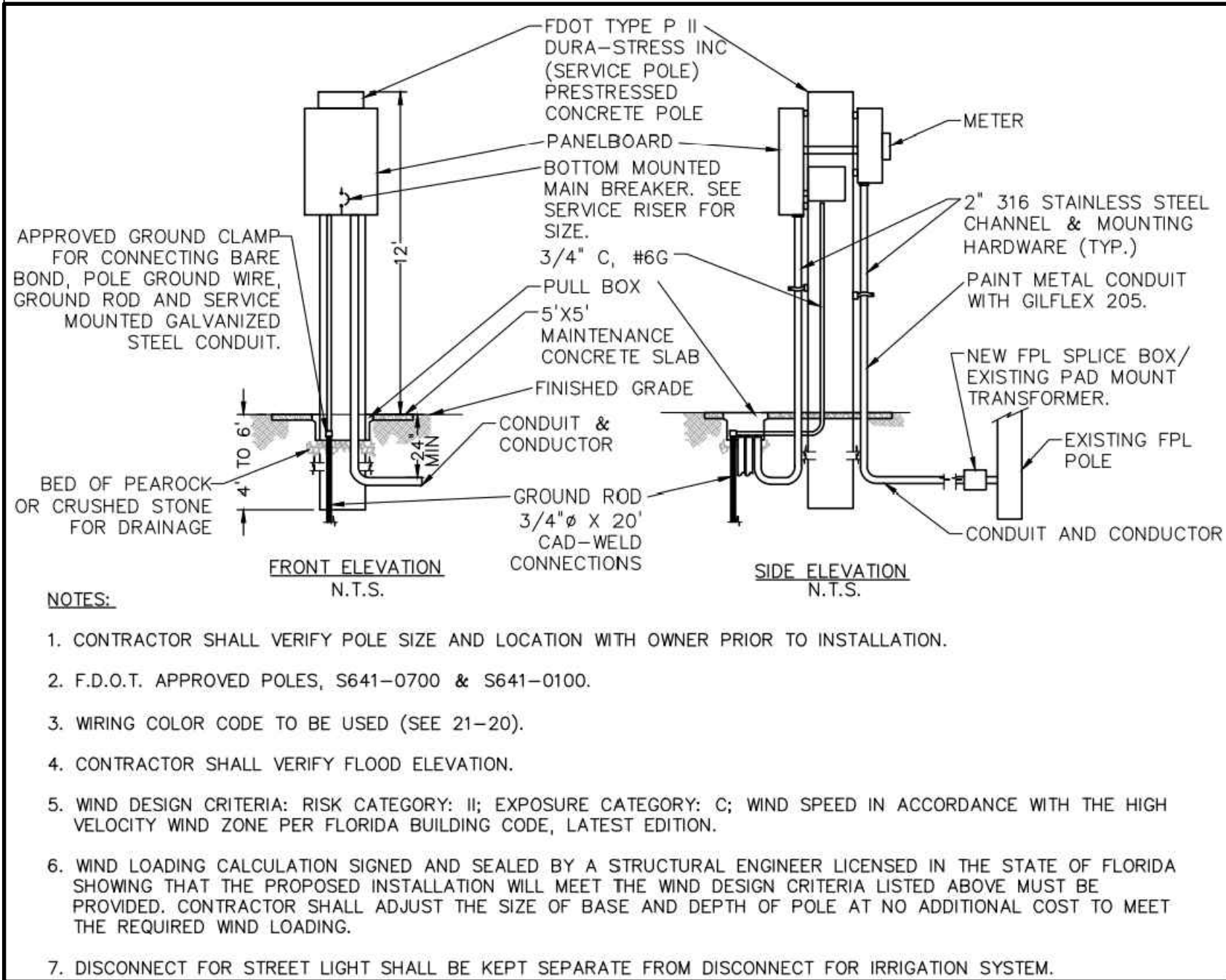
(21-5) PULL BOX GROUNDING DETAIL  
N.T.S.



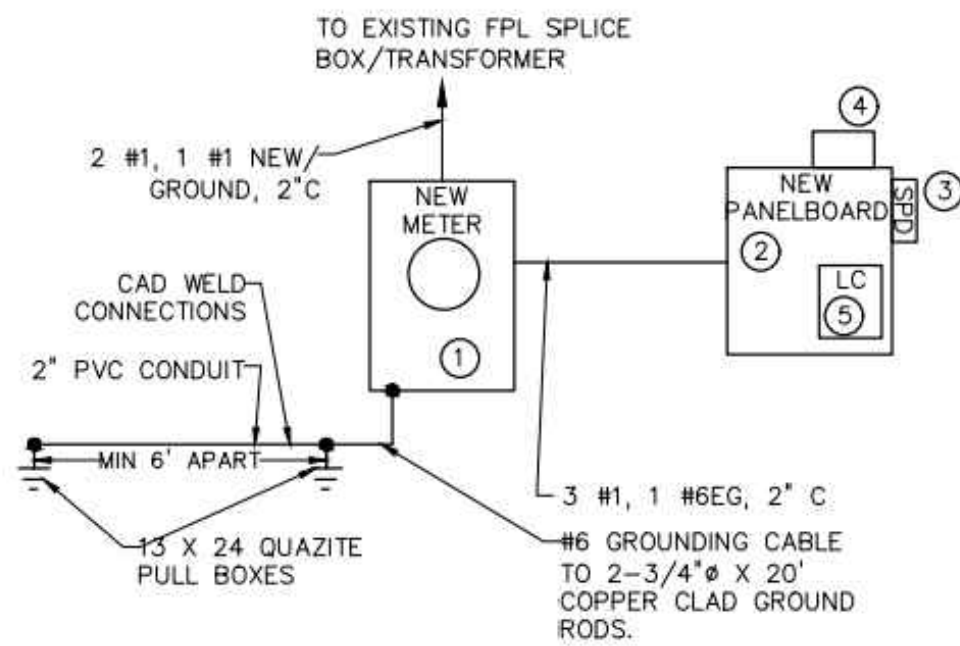
TYPICAL POLE BASE DETAIL  
N.T.S.



TYPICAL FIXTURE "A" DETAIL  
N.T.S.



GRADE MOUNTED EQUIPMENT RACK DETAIL



SERVICE POINT INSTALLATION NOTES:

- CONTRACTOR SHOULD PROVIDE AND INSTALL 1-NEW 100 AMP, 120/240V METER IN A NEMA 4X ALUMINUM ENCLOSURE MOUNTED ON THE NEW CONCRETE POLE PER FPL STANDARDS AND REQUIREMENTS. CONTRACTOR SHALL MAKE ALL CONNECTIONS NECESSARY FOR A COMPLETE WORKING SYSTEM IN PLACE.
- CONTRACTOR SHALL PROVIDE AND INSTALL 1-NEW 100A RATED, 120/240V SINGLE PHASE SERVICE RATED PANELBOARD WITH A BOTTOM MOUNTED 100A MAIN BREAKER IN A NEMA 4X 316 STAINLESS STEEL LOCKABLE ENCLOSURE MOUNTED ON THE NEW CONCRETE POLE. CONTRACTOR SHALL MAKE ALL CONNECTIONS NECESSARY FOR A COMPLETE WORKING SYSTEM IN PLACE.
- CONTRACTOR SHALL PROVIDE AND INSTALL 1-NEW EXTERNAL MOUNTED 50KA SURGE PROTECTIVE DEVICE (SPD) IN A NEMA 4X 316 STAINLESS STEEL ENCLOSURE. CONTRACTOR SHALL INSTALL SPD PER MANUFACTURE RECOMMENDATION FOR A COMPLETE WORKING SYSTEM.
- PHOTO CELL LIGHT CONTROLS.
- LIGHTING CONTACTOR.

SERVICE ENTRANCE MOUNTING DETAIL

2

WIRING COLOR CODE

WIRING COLOR CODE:

| 120/240V 3Ø | 120/208V 3Ø | 270/480V 3Ø |
|-------------|-------------|-------------|
| A-BLACK     | A-BLACK     | A-BROWN     |
| B-ORANGE    | B-RED       | B-ORANGE    |
| C-RED       | C-BLUE      | C-YELLOW    |
| N-WHITE     | N-WHITE     | N-GREY      |
| G-GREEN     | G-GREEN     | G-GREEN     |

| 120/240V 1Ø | 120/208V 1Ø | 480V TO GROUND   |
|-------------|-------------|------------------|
| A-BLACK     | A-BLACK     | UNGROUND-ORANGE  |
| B-RED       | B-RED       | GROUND (N)-GREY  |
| N-WHITE     | N-WHITE     | GROUND (G)-GREEN |
| G-GREEN     | G-GREEN     |                  |

A -  
B - UNGROUNDED (HOT)  
C -  
N - GROUNDED (NEUTRAL)  
G - GROUND

#6 OR SMALLER NEEDS TO BE A SOLID COLOR

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KEY PLAN (NOT TO SCALE):

SEAL:

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
FLA. REGISTRATION NO. \_\_\_\_\_