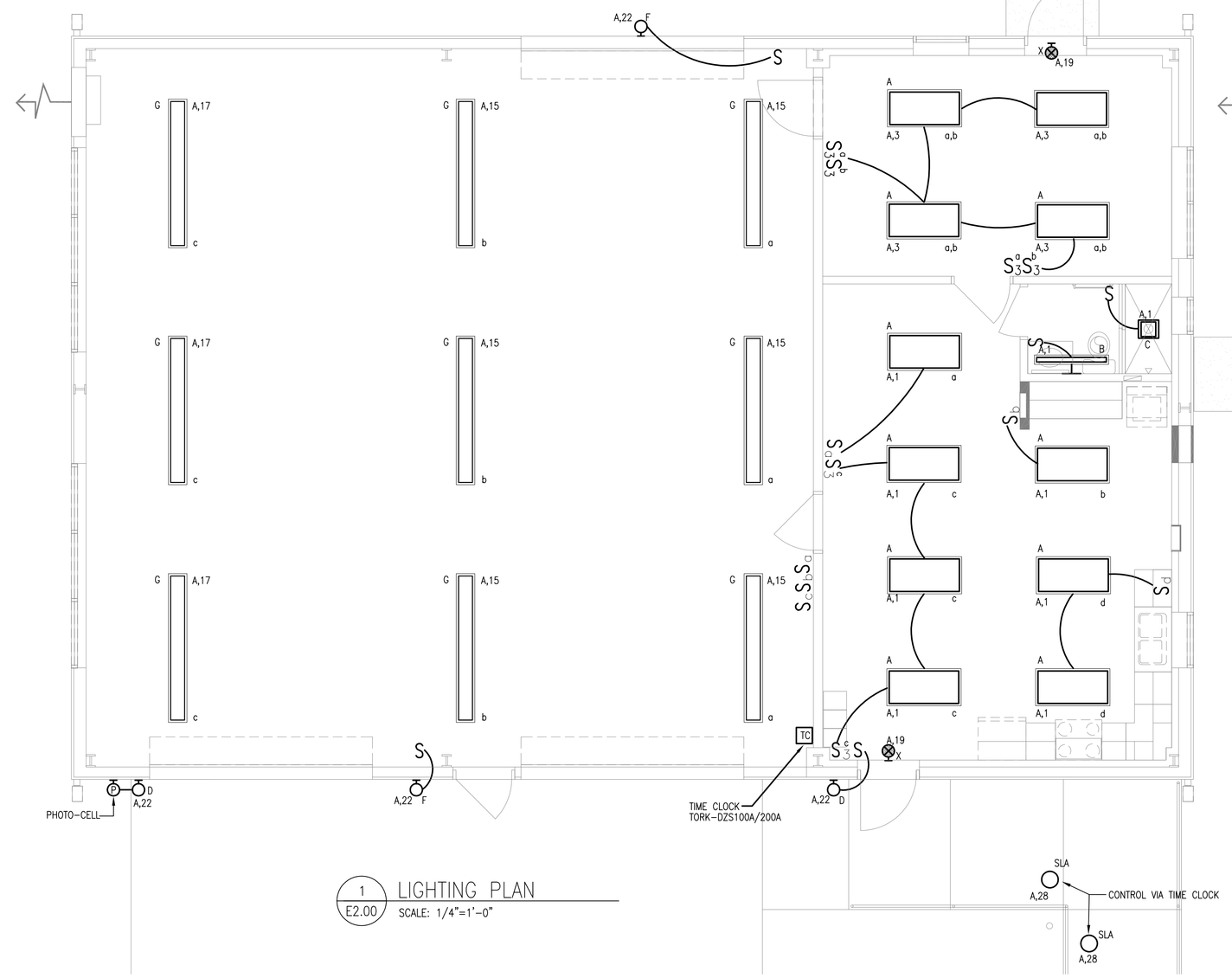
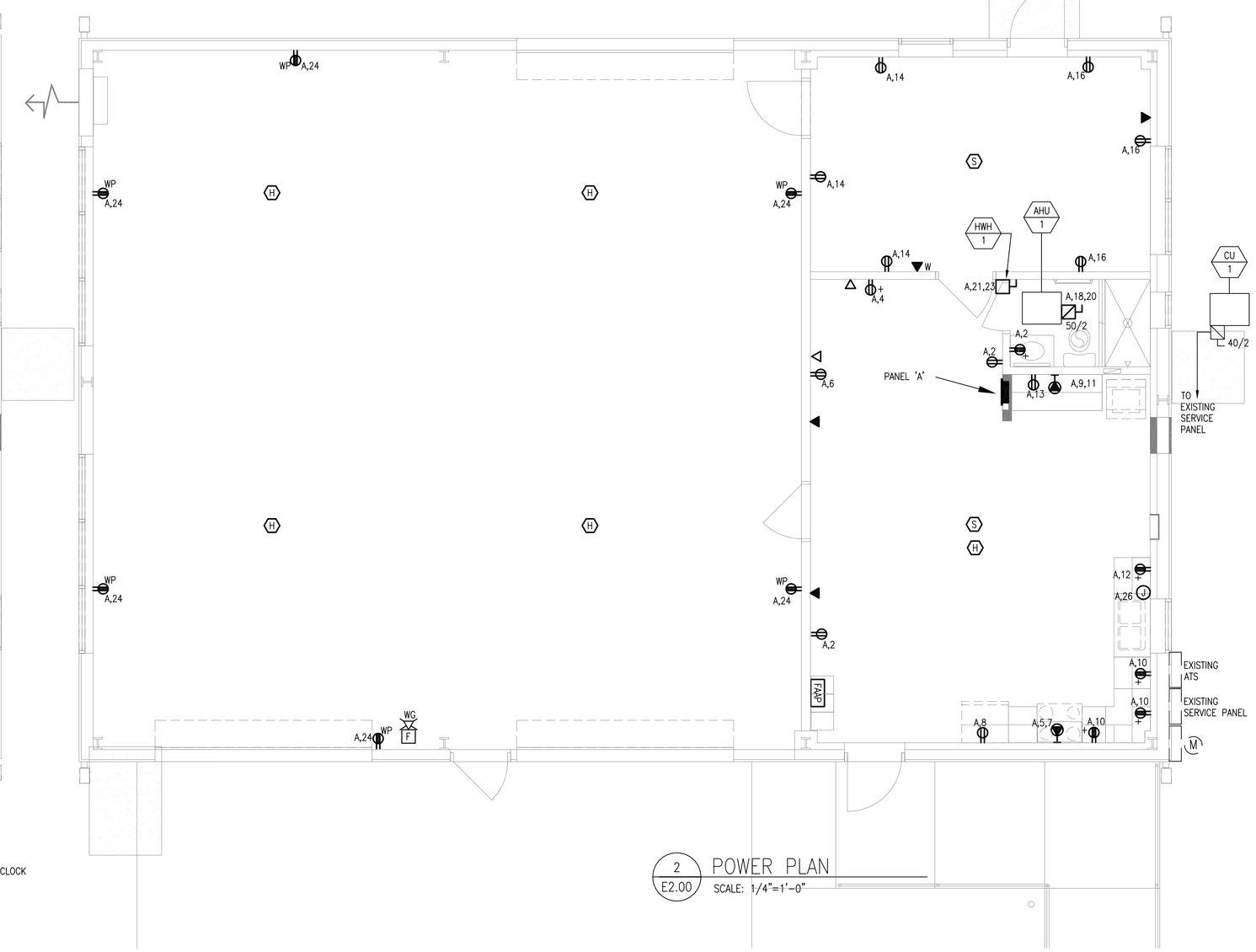



1 E2.00 LIGHTING PLAN
SCALE: 1/4"=1'-0"



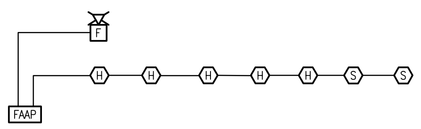

2 E2.00 POWER PLAN
SCALE: 1/4"=1'-0"

## LIGHTING FIXTURE SCHEDULE

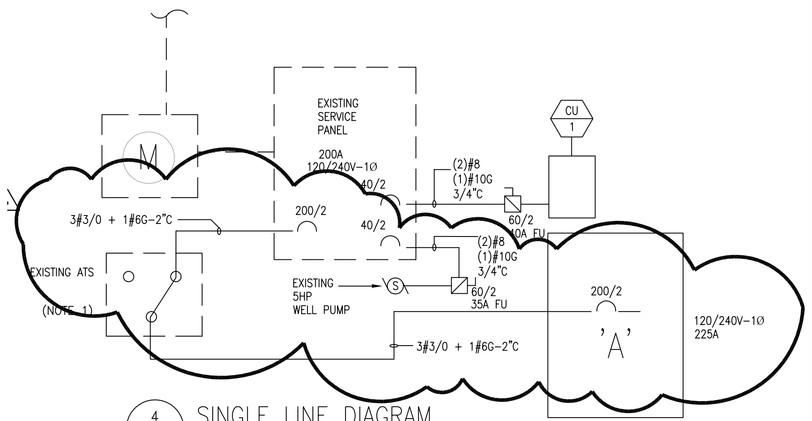
*LAMP TYPES:
HPS=HIGH PRESSURE SODIUM
LPS=LOW PRESSURE SODIUM
MH=METAL HALIDE
F=FLUORESCENT
CFL=COMPACT FLUORESCENT
Q=QUARTZ
H=HALOGEN
LED=LIGHT EMITTING DIODE
I=INCANDESCENT

| TYPE | GENERAL DESCRIPTION | MANUFACTURER/CATALOG NO. | MOUNTING | VOLTS | *TYPE | QTY LAMPS | (QTY)BALLAST TYPE | SPECIFIC REMARKS |
|---|---|---|---|---|---|---|---|---|
| A | 2'x4' FLUORESCENT LAY-IN FIXTURE | LITHONIA #GT8332FWA12120GEB | RECESSED | 120 | | 32W T8 | (1) ELECTRONIC | |
| B | WALL BRACKET FLUORESCENT | LITHONIA #WP225120VGEB1015 | WALL | 120 | | 25W T8 | (1) ELECTRONIC | |
| C | RECESSED SHOWER LIGHT | LITHONIA #LSF72/9TT120GEB10 | RECESSED | 120 | | 9TT | (1) ELECTRONIC | |
| D | WALL PACK FLUORESCENT | LITHONIA #TWL28DTT120LPIRHP | WALL | 120 | | 28 DTT | | |
| F | QUARTZ 250W | HYDREL #S100250Q120MFLAWMDEWRGLPIGR | WALL | 120 | | 250W Q | (1) ELECTRONIC | MOUNTED 12" DOWN FROM ROOF |
| G | 8' FLUORESCENT INDUSTRIAL | LITHONIA LIGHTING #AF10296T8MVOLTGEBWG | STEM | 120 | | (2) 59W T8 | (1) ELECTRONIC | |
| X | EXIT SIGN | LITHONIA LIGHTING #LEDSIR120 | WALL | 120 | | LED | | |
| SLA | 11 5/8" DIAMETER TRIM RING FOR FLUSH MOUNTING IN CONCRETE. | KIM LIGHTING LTV10-PAR38-150MH120-TR10 | FLUSH IN CONCRETE | 120 | | 150 MH | | FLAGPOLE INGRAUND LIGHTS |

6 E2.00 LIGHTING FIXTURE SCHEDULE
SCALE: NONE




3 E2.00 FA RISER DIAGRAM
SCALE: NONE




4 E2.00 SINGLE LINE DIAGRAM
SCALE: NONE

## CIRCUIT BREAKER DISTRIBUTION PANEL

A — BUILDING: FIRE STATION; FLOOR: GROUND; ROOM: LOUNGE

240/120V AC — 1 PHASE, 3 WIRE + GND

BUS 225 A COPPER — ☐ MAIN LUGS ONLY ☐ SURFACE MOUNTED — 22 KA RMS SYM. ■ 200 A MAIN C.B. ■ FLUSH MOUNTED ■ BOLTED BRANCH C.B.

| CKT NO | | CIRCUIT DESCRIPTION | MINIMUM WIRE SIZE *) | CIRCUIT BREAKER | CONN. LOAD | PHASE A | PHASE B | CONN. LOAD | CIRCUIT BREAKER | MINIMUM WIRE SIZE *) | CIRCUIT DESCRIPTION | | CKT NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | – | LIGHTING | #12, #12G | 20A–1P | 1.25 | | | 0.54 | 20A–1P | #12, #12G | RECEPTACLE | – | 2 |
| 3 | – | LIGHTING | #12, #12G | 20A–1P | 0.6 | | | 0.36 | 20A–1P | #12, #12G | RECEPTACLE | – | 4 |
| 5 | – | RANGE (NOTE 4.) | #8, #10G | 20A | 3.7 | | | 0.36 | 20A–1P | #12, #12G | RECEPTACLE | – | 6 |
| 7 | – | – | – | 2P | 3.7 | | | 0.8 | 20A–1P | #12, #12G | RECEPTACLE | – | 8 |
| 9 | – | DRYER | #10, #10G | 30A | 2.7 | | | 0.54 | 20A–1P | #12, #12G | RECEPTACLE | – | 10 |
| 11 | – | – | – | 2P | 2.7 | | | 0.18 | 20A–1P | #12, #12G | RECEPTACLE | – | 12 |
| 13 | – | WASHER | #12, #12G | 20A–1P | 0.8 | | | 0.54 | 20A–1P | #12, #12G | RECEPTACLE | – | 14 |
| 15 | – | BAY LTG. | #12, #12G | 20A–1P | 1.0 | | | 0.54 | 20A–1P | #12, #12G | RECEPTACLE | – | 16 |
| 17 | – | BAY LTG. | #12, #12G | 20A–1P | 0.5 | | | 4.0 | 50A | #6, #10G | ACU–1 | – | 18 |
| 19 | – | EXIT SIGN | #12, #12G | 20A–1P | .01 | | | 4.0 | 2P | #6, #10G | ACU–1 | – | 20 |
| 21 | – | HWH–1 | #12, 1#12G | 20A | .75 | | | 1.35 | 20A–1P | #12, #12G | OUTSIDE LIGHTING | – | 22 |
| 23 | – | | | 2P | .75 | | | 1.35 | 20A–1P | #12, #12G | BAY RECEPTACLES | – | 24 |
| 25 | – | SPARE | | 20A–1P | – | | | 1.9 | 20A–1P | #12, #12G | DISHWASHER | – | 26 |
| 27 | – | SPARE | – | 20A–1P | – | | | .30 | 20A–1P | #12, #12G | FLAG POLE LIGHTING | – | 28 |
| 29 | – | SPARE | – | 20A–1P | – | | | – | 20A–1P | – | SPARE | – | 30 |
| 31 | – | SPARE | – | 20A–1P | – | | | – | 20A–1P | – | SPARE | – | 32 |
| 33 | – | SPARE | – | 20A–1P | – | | | – | 20A–1P | – | SPARE | – | 34 |
| 35 | – | SPARE | – | 20A–1P | – | | | – | 20A–1P | – | SPARE | – | 36 |
| 37 | – | SPARE | – | 20A–1P | – | | | – | 20A–1P | – | SPARE | – | 38 |
| 39 | – | SPARE | – | 20A–1P | – | | | – | 20A–1P | – | SPARE | – | 40 |
| 41 | – | SPARE | – | 20A–1P | – | | | – | 20A–1P | – | SPARE | – | 42 |
| | | | | | 18.55 | – | | 16.49 | | | | | |

(*) 1. ELECTRICAL CONTRACTOR SHALL OBTAIN, FROM THE POWER UTILITY COMPANY UPDATED INFORMATION PERTAINING TO THE SHORT CIRCUIT CURRENT CAPACITY OF THE POWER DISTRIBUTION SYSTEM AND SHALL UPGRADE THE SHORT CIRCUIT RATING OF PANEL AS REQUIRED.

(*) 2. ELECTRICAL CONTRACTOR SHALL BALANCE PANEL LOAD BETWEEN THE PHASES.

(*) 3. ELECTRICAL CONTRACTOR SHALL FIELD CHECK THE LENGTH OF BRANCH CIRCUIT WIRING AND SHALL UPGRADE WIRE SIZES AS REQUIRED TO PREVENT EXCESSIVE VOLTAGE DROP.

(*) 4. PROVIDE SHUNT-TRIP BREAKER FOR RANGE & TIE INTO CONTACT CLOSURE FROM EMERGENCY DISPATCH ALERT.

LCB = LOCKED-ON CIRCUIT BREAKER
MC = MAGNETIC CONTACTOR
GFI = BREAKER WITH GROUND FAULT CIRCUIT INTERRUPTER

| | | |
|---|---|---|
| LIGHTING | 5.1 | KVA |
| RECEPTACLES | 4.94 | KVA |
| AC | – | KVA |
| HEATING | 8.0 | KVA |
| MISCELLANEOUS | 17.0 | KVA |
| – | – | KVA |
| CONNECTED LOAD | 35.04 | KVA |

146 A

5 E2.00 PANEL SCHEDULE
SCALE: NONE

NOTES

1. CONTRACTOR TO INCLUDE AN ALLOWANCE TO FURNISH & INSTALL A 40KW. 120/240V–1Φ DIESEL GENERATOR W/OUTDOOR ENCLOSURE AND 300 GAL. SUB BASE DOUBLE–WALL FUEL TANK. BASIS OF DESIGN SHALL BE 'POWER TECH' MODEL # PTS–40–1.
2. FURNISH & INSTALL A 'FIRELITE' MODEL #MS–4 CONVENTIONAL 4–ZONE FA PANEL OR APPROVED EQUAL WITH SMOKE DETECTORS, SOUNDER BASE, RATE OF RISE HEAT DETECTORS, HORN/STROBE, REVERSING RELAY/SYNCHRONIZATION MODULE & ALL OTHER APPURTENANCES TO ALLOW ANNUNCIATION THROUGHOUT. SYSTEM SHALL ALSO ACCEPT CO/$NO_2$ DETECTOR INPUT.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455 SOUTH ORANGE AVENUE, SUITE 301
ORLANDO, FL 32801
T 407.426.1270 F 407.426.1272


CONSULTANTS

SEAL

PROJECT # 3305.15

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND THE ARCHITECT NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE CONSTRUCTION

DO NOT SCALE DRAWINGS
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PROJECT TITLE

FIRE STATION RENOVATION
FOR LAKE COUNTY
6234 CR 561
CLERMONT, FLORIDA 34711

DRAWING TITLE
ELECTRICAL FLOOR PLAN

| | |
|---|---|
| SCALE | AS NOTED |
| DRAWN | JMS |
| CHECKED | RAJ |
| APPROVED | RAJ |
| DATE | 08/08/08 |

REVISIONS

| SYMBOL | DATE | DESCRIPTION |
|---|---|---|
| 1 | 8–27–08 | CLARIFICATION & CODE COMMENTS RESPONSE |
| 2 | 12–08–08 | ADDENDUM 1–RFI/OWNER COMMENT RESPONSES |
| 3 | 01–12–09 | ADDENDUM 3–RFI/CODE COMMENT RESPONSES |

DRAWING #
E2.00

January 08, 2009 1:48:37 p.m.
Drawing: P:\PROJECTS\3305_FS\ELEC\E2.00.DWG
Xrefs: Xbase Floor Plan:DWG 3D_RFI1.DWG RAC210.DWG