# DEMOLITION NOTES

1. DEMOLITION WORK SHALL BE PERFORMED ACCORDING TO THE ARCHITECTURAL PLANS.
2. ALL MATERIALS, LIGHTING FIXTURES, CONVENIENCE OUTLETS, WIRES, CONDUITS, JUNCTION BOXES AND ALL OTHER DEVICES SHALL CONFORM TO MATCH THE EXISTING CONDITIONS AND EQUIPMENT ON THE JOB SITE, UNLESS OTHERWISE NOTED.
3. REMOVE, REROUTE AND REWIRE EXISTING FIXTURES, RECEPTACLES AND JUNCTION BOXES AND PROVIDE NEW BRANCH CIRCUITS, PANEL FEEDERS, AND DEVICES AS SHOWN ON THE PLANS OR AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM, IN FULL ACCORDANCE AND COMPLIANCE WITH ALL APPLICABLE CODES.
4. ALL EQUIPMENT WHICH IS DISCONNECTED AND REMOVED SHALL BE RETURNED TO THE OWNER.
5. FURNISH AND INSTALL ALL NECESSARY CONDUITS, WIRES, JUNCTION BOXES, BLANK COVER PLATES, ETC. AT ALL LOCATIONS AFFECTED BY RELOCATION OF OUTLETS.
6. WHERE INTERRUPTION OF A CIRCUITS FEEDING EXISTING EQUIPMENT OCCURS DUE TO NEW WORK, THIS CIRCUIT SHALL BE REHABILITATED AND MADE CONTINUOUS FROM PANEL TO LAST EXISTING OUTLET.
7. THE CONTRACTOR SHALL REUSE EXISTING CONDUIT RUNS AND HOMERUNS WHERE POSSIBLE ACCORDING TO CODES HAVING JURISDICTION, PULL NEW WIRES AS REQUIRED. ALL OTHER EXISTING UNUSED CONDUITS AND WIRES SHALL BE REMOVED BACK TO LAST EXISTING OUTLET.
8. UPDATE PANEL DIRECTORIES AT EXISTING PANELS TO REFLECT NEW WORK.
9. THE CONTRACTOR SHALL VERIFY THE CURRENT IN EXISTING FEEDERS AND BRANCH CIRCUITS THAT ARE AFFECTED BY THIS PROJECT PRIOR TO ADDING LOAD TO EXISTING CONDUCTORS, BREAKERS, PANELS, TRANSFORMERS OR SWITCHGEAR. NOTIFY ARCHITECT IMMEDIATELY IF ANY EXISTING EQUIPMENT IS FOUND TO BE OVERLOADED OR WILL BECOME SO IF NEW LOAD IS ADDED.
10. THIS DRAWING IS BASED ON EXISTING DRAWINGS AND OWNER SUPPLIED INFORMATION. THERE HAS BEEN NO VERIFICATION OF PRECISE LOCATIONS, WIRING OR OPERATION OF EXISTING EQUIPMENT. CONTRACTOR SHALL VERIFY ALL JOB CONDITIONS PRIOR TO BID. CONTRACTOR SHALL THOROUGHLY EXAMINE AND VERIFY POINTS OF CONNECTION, ACCESSIBILITY, SIZES, LOCATIONS, ELEVATIONS, ETC. EXISTING CONDITIONS FOUND UNACCEPTABLE OR IN VIOLATION OF CODES AND AUTHORITIES HAVING JURISDICTION SHALL BE CORRECTED.
11. CONTRACTOR SHALL PERFORM ALL VERIFICATION, OBSERVATION,TEST, AND EXAMINATION WORK PRIOR TO THE ACTUAL CONSTRUCTION. HE SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
12. ADDITIONAL LABOR AND MATERIAL REQUIRED TO PROVIDE A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH CODES AND ALL AUTHORITIES HAVING JURISDICTION NOT LISTED IN THE WRITTEN NOTICE TO THE ARCHITECT SHALL BECOME PART OF THE CONTRACTOR'S WORK JUST AS IF IT WERE INDICATED AND IMPLIED ON THE PLANS.

# ABBREVIATION

| | | | | | |
|---|---|---|---|---|---|
| AFF | ABOVE FINISHED FLOOR | FLA | FULL LOAD AMPS | R,(R) | REMOVE, RELOCATE |
| AFG | ABOVE FINISHED GRADE | FSP | FIRE SUPPRESSION PANEL | SCC | SHORT-CIRCUIT CURRENT |
| AIC | AMP INTERRUPTING CURRENT | GFCI | GROUND FAULT CIRCUIT INTERRUPTER | SAD | SEE ARCHITECTURAL DRAWING |
| BC | BARE COPPER | G, GND, GRD | GROUND | SMD | SEE MECHANICAL DRAWING |
| BKBD | BACKBOARD | IG | ISOLATED GROUND | UNO | UNLESS NOTED OTHERWISE |
| CO | CONDUIT ONLY | LCL | LONG CONTINUOUS LOAD | VL | VERIFY LOCATION |
| E,(E) | EXISTING | N,(N) | NEW | WP | WEATHERPROOF |
| ECP | ENVIRONMENTAL CONTROL PANEL | NF | NON-FUSED | WT | WATER TIGHT |
| EG | EQUIPMENT GROUND | NL | NIGHT LIGHT | | |
| EM | EMERGENCY | | | | |

# APPLICABLE CODES

2013 CALIFORNIA MECHANICAL CODE (CMC)
2013 CALIFORNIA BUILDING CODE (CBC)
2013 CALIFORNIA ELECTRICAL CODE (CEC)
2013 CALIFORNIA PLUMBING CODE (CPC)
2013 CAIFORNIA ENERGY CODE & EFFICIENCY STANDARDS

# GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE, HORSEPOWER RATINGS, EXACT LOCATIONS OF ALL ELECTRICAL AND OTHER EQUIPMENT PRIOR TO ANY ROUGH-IN. IF DISCREPANCIES ARE NOTED, ADVISE THE ARCHITECT/ENGINEER IMMEDIATELY.
2. SEE RELATED WORK SHOWN ON CONSTRUCTION DOCUMENTS PREPARED BY THE ARCHITECT FOR WORK AND MATERIALS TO BE FURNISHED AND INSTALLED UNDER THIS WORK.
3. LOCATE LIGHT FIXTURES SO AS TO AVOID ALL EQUIPMENT FURNISHED BY OTHER TRADES. COORDINATE ALL ASPECTS OF INSTALLATION PRIOR TO ROUGH-IN.
4. THE ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2013 EDITION OF THE CALIFORNIA ELECTRICAL CODE WHICH IS BASED ON THE 2011 NATIONAL ELECTRICAL CODE, AND ALL. LOCAL CODES HAVING JURISDICTION.
5. ALL LIGHT FIXTURES SHALL BE FURNISHED TO MATCH WITH THE CEILING TYPE IN WHICH THEY ARE INSTALLED. PRIOR TO BID, CONTRACTOR SHALL VERIFY CEILING TYPE INDICATED ON ARCHITECTURAL DRAWINGS. LOCATE ALL LIGHT FIXTURES AS SHOWN ON THE REFLECTED CEILING PLAN.
6. ALL ELECTRICAL EQUIPMENT EXPOSED TO THE WEATHER OR DAMP AND WET AREAS SHALL BE WEATHERPROOF AND HAVE UL LABEL CONSISTENT WITH APPLICATION (NEMA 3R).
7. CONTRACTOR SHALL FURNISH AND INSTALL AN AUXILIARY JUNCTION BOX AT ALL LOCATIONS WHERE A RECESSED LIGHT FIXTURE IS SHOWN WITH MORE THAN EIGHT (8) WIRES CONNECTING OR RUNNING THROUGH IT. SEE NEC 370-6 AND 410-11.
8. CONTRACTOR SHALL OBTAIN THE EQUIPMENT SUPPLIER'S DRAWINGS AND INFORMATION RELATIVE TO THIS PROJECT. HE SHALL UTILIZE THIS INFORMATION FOR EXACT POINTS OF CONNECTION. NO INSTALLATION SHALL BE PERMITTED IN VIOLATION OF MANUFACTURER'S RECOMMENDATIONS.
9. ALL ELECTRICAL EQUIPMENT SHALL BE NEW AND U.L. LISTED.
10. LIGHTING FIXTURE CATALOG NUMBERS, VOLTAGES, AND LAMP TYPES ON THE FIXTURES SCHEDULE SHALL BE TREATED AS MINIMUM REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND COORDINATION OF ALL VOLTAGES, NUMBERS, LAMP TYPES AND MOUNTINGS.
11. CONTRACTOR SHALL FURNISH AND INSTALL A GROUND WIRE IN ALL CONDUITS. GROUND WIRES MAY NOT BE SHOWN, BUT SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S BASE BID AND SIZED PER NEC ARTICLE 250-94 AND 250-96, OR AS NOTED ON DRAWINGS.
12. FACILITIES SYSTEMS: AT NO TIME SHALL ANY WORK BE DONE THAT MAY INTERRUPT THE OPERATIONS OF ANY EXISTING FACILITIES WHICH AFFECTS PEOPLE OR EQUIPMENT OUTSIDE THIS SCOPE. IF, IN THE OWNER'S OPINION THERE IS NO POSSIBLE WAY TO AVOID SUCH DISRUPTION, THE CONTRACTOR SHALL CONTACT APPROPRIATE AUTHORITIES, SUBMIT A PLAN FOR APPROVAL TO THOSE RESPONSIBLE. OBTAIN ALL AGREEMENTS, AND THEN COMPLY WITH THOSE AGREED UPON PROCEDURES IN ALL ASPECTS, COORDINATION OF OUTAGE OF ANY SYSTEM SHALL BE EXECUTED WITH SUFFICIENT ADVANCE NOTICE SO AS TO MINIMIZE THE IMPACT OF THE INTERRUPTION OF SERVICES.
13. CONTRACTOR TO TAG/IDENTIFY ALL CONDUCTORS FOR EQUIPMENT INSTALLATION.
14. CONDUIT AND DUCT RUNS ARE SHOWN SCHEMATICALLY. BUILDING CONDITIONS WILL DETERMINE THE ACTUAL RUNS.
15. THE CONTRACTOR MUST VISIT THE SITE PRIOR TO SUBMITTING A BID AND INCLUDE ALL REQUIREMENTS FOR EXISTING FIELD CONDITIONS IN HIS PRICE.
16. ALL SWITCHES AND RECEPTACLES SHALL BE SPECIFICATION GRADE AND 20 AMPERE MINIMUM. WALL-PLATES SHALL BE TYPE 302 STAINLESS STEEL, COLOR OF DEVICES TO BE SELECTED BY ARCHITECT.
17. ALL WIRING SHALL BE INSTALLED IN RACEWAYS.
18. ALL WIRING SHALL BE COPPER, #12 AWG MINIMUM, TYPE THWN AND RATED FOR 600 VOLTS.
19. RACEWAYS ALLOWED: RIGID METAL CONDUIT (REQUIRED IN MECHANICAL, ELECTRICAL AND EQUIPMENT ROOMS), EMT, STEEL FLEXIBLE CONDUIT (MAXIMUM LENGTH SHALL BE 6 FEET) AND PVC COATED METAL CONDUIT (REQUIRED UNDERGROUND AND IN EXISTING SLABS). MINIMUM SIZE HOMERUN SHALL BE 3/4", OTHERWISE 1/2" MINIMUM ALLOWED. ANY RACEWAYS WITH 6 OR MORE CONDUCTORS SHALL BE 3/4" MINIMUM (INCLUDING GROUNDING CONDUCTOR).

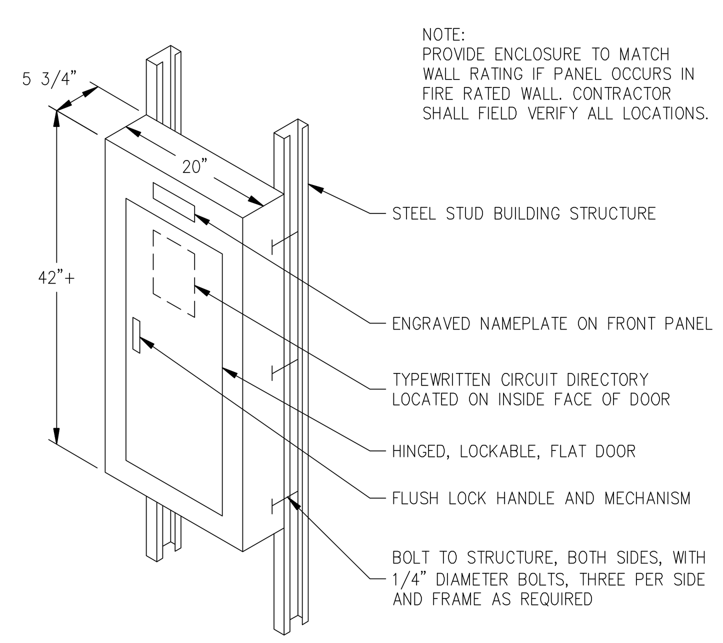
    ALUMINUM FLEXIBLE CONDUIT SHALL NOT BE USED. FLEXIBLE CONDUITS EXCEEDING 6 FEET IN LENGTH SHALL INCLUDE AN GREEN INSULATED CODE-SIZED EQUIPMENT GROUNDING WIRE, PROPERLY BONDED AT EACH END TO MAINTAIN GROUNDING CONTINUITY AS REQUIRED BY CODE.
20. FITTINGS: GALVANIZED STEEL TYPE; SET-SCREW TYPE.
21. SLEEVES: PROVIDE SLEEVES FOR ALL RACEWAYS AND/OR WIRING THROUGH FIRE-RATED WALLS, CEILINGS AND CONCRETE OR STEEL FLOORS. SEAL SLEEVES, AFTER INSTALLING RACEWAYS, WITH APPROVED FIRE-RATING MATERIAL OF EQUAL RATING AS ORIGINAL FIRE-RATING. CABLES AND WIRING THROUGH SLEEVES SHALL BE SEALED ON BOTH ENTRIES.
22. ALL EXISTING AND NEW PANELBOARDS SHALL HAVE TYPE-WRITTEN DIRECTORIES ADDED BY THE CONTRACTOR INDICATING EXISTING CONDITIONS, PRESENT MODIFICATIONS AND NEW WORK.
23. SEAL ALL PENETRATIONS THOUGH FLOOR OR FIRE RATED WALLS WITH FIREPROOFING MATERIAL THAT HAS AN EQUIVALENT FIRE RATING AS THAT OF THE EXISTING CONDITION.
24. THE ELECTRICAL WORK SHALL BE GUARANTEED FOR A PERIOD OF NO LESS THAN ONE YEAR AFTER THE DATE OF ACCEPTANCE BY OWNER. ANY WORK, MATERIAL, OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE UPON WRITTEN NOTIFICATION AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
25. ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
26. PROVIDE THE OWNER WITH ONE SET OF COMPLETE ELECTRICAL REPRODUCIBLE DRAWINGS AT THE COMPLETION OF THE JOB SHOWING ACTUAL DIMENSION AND CIRCUITS.
27. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO THE OWNER AT JOB COMPLETION.
28. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
29. PATCH, REPAIR, AND PAINT TO MATCH SURROUNDING CONDITION, ANY AREA DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.

# SCOPE OF WORK

INTERIOR TENANT IMPROVEMENTS ALTERATION. TITLE 24 LIGHTING COMPLIANCE AND ADDITIONAL SUB-PANELS AND UTILIZING THE CIRCUITRY.

# ELECTRICAL SYMBOLS LIST

| CLG. | WALL | FLR. | DESCRIPTION |
|---|---|---|---|
| | F | | FUSED SWITCH, SIZE AS SHOWN – V.L. |
| | | | NON-FUSED SWITCH, SIZE AS SHOWN – V.L. |
| | TC | | TIME CLOCK – 7 DAY, SKIP-A-DAY FEATURE WITH MANUAL BY-PASS SWITCH |
| | M | | MOTOR OUTLET – IDENTIFICATION |
| | | | SURFACE MOUNTED PANEL 120/208V, 3-PHASE, 4-WIRE |
| | | | MAIN SWITCHBOARD OR POWER DISTRIBUTION BOARD |
| | E | | FLEXIBLE CONNECTION / CP = PROVIDE CORD AND PLUG |
| | | | CONDUIT CONCEALED ABOVE CEILING OR IN WALLS |
| | | | CONDUIT UNDER SLAB OR BELOW GRADE, 3/4" MINIMUM |
| | | | CONDUIT RUN EXPOSED |
| | | | HASH MARKS INDICATE QUANTITY OF #12 WIRES IN CONDUIT, EXCEPT NO HASH MARKS DESIGNATE 2 #12 WIRES. OTHER CONDUIT AND WIRE AS INDICATED |
| | | | HOMERUN TO PANEL "A", CIRCUITS #1 AND #3 |
| | T | | TELEPHONE 3/4" C.O. – U.O.N. T1 = 1-1/4" C.O.; T2 = 1-1/2" C.O. |
| | $M | | MANUAL MOTOR STARTER |
| | 1 | | INDICATES PLAN NOTE NUMBER "1", SEE PLAN |
| | | | CONDUIT STUB OUT, 3/4" MINIMUM – SEE PLANS FOR NOTES |
| | | | LIGHTING FIXTURE OUTLET – VERIFY MOUNTING WITH FIXTURE SCHEDULE |
| | | | EXIT LIGHT FIXTURE – ARROWS AS SHOWN (90 MINUTES MINIMUM) |
| | | | DUPLEX RECEPTACLE AT +18" / = DUPLEX MOUNTED ABOVE COUNTER |
| | | | DOUBLE DUPLEX/ DUPLEX RECEPTACLE AT +18"= CONTROLLED |
| | | | DUPLEX RECEPTACLE, WALL-MOUNTED, WITH GROUND FAULT CIRCUIT INTERRUPTER (GFCI), (20A, 120V, 2-POLE, 3-WIRE, UON) |
| J | J | J | JUNCTION BOX AT +18" WALL MOUNTED U.O.N |
| | | | GROUND FAULT INTERRUPTING RECEPTACLE/ = GFCI MOUNTED ABOVE COUNTER / WP |
| | S | | SINGLE POLE SWITCH AT 48" U.O.N. – V.L. |
| | $S_2$ | | DOUBLE POLE SWITCH AT +48" U.O.N. – V.L. |
| | $S_3$ | | THREE-WAY SWITCH AT +48" U.O.N. – V.L. |
| | $S_4$ | | FOUR-WAY SWITCH AT +48" U.O.N. – V.L. |
| | $S_a$ | | "a" INDICATES OUTLET CONTROLLED AT +48" U.O.N. (PROVIDE SEPARATE SWITCH FOR EACH DESIGNATION) |
| | $S_M$ | | MOTOR CONTROL TOGGLE SWITCH H.P. RATED |
| MS | | | CEILING-MOUNTED MOTION SENSOR |
| | 2 HP 120 V FC 1 | | DENOTES MECHANICAL EQUIPMENT SEE MECHANICAL DRAWINGS FOR EXACT SPECIFICATIONS; INFORMATION ADJACENT TO CALL-OUT INDICATES HORSE POWER (H.P.) AND VOLTAGE RATING |
| | J P OR C | | MOUNT JUNCTION BOX WITH BLANK COVER PLATE 6" ABOVE ACCESSIBLE CEILING FOR MODULAR FURNITURE POWER POLE BY OWNER. "P" INDICATES POWER SUPPLY, "C" INDICATES DATA AND TELEPHONE SUPPLY |
| | $ | | OCCUPANCY AUTOMATIC WALL SWITCH SENSOR WITH SINGLE LEVEL SWITCHING AT +48" (120 VOLT) |
| | $aD | | DIMMER/ OCCUPANCY AUTOMATIC WALL SWITCH SENSOR WITH SINGLE LEVEL SWITCHING AT +48" (120 VOLT) |
| | $ab | | OCCUPANCY AUTOMATIC WALL SWITCH SENSOR WITH BI-LEVEL SWITCHING AT +48" (120 VOLT) |
| | $abD | | DIMMER/OCCUPANCY AUTOMATIC WALL SWITCH SENSOR WITH BI-LEVEL SWITCHING AT +48" (120 VOLT) |
| | | | DATA/TELEPHONE OUTLET, WALL-MOUNTED |



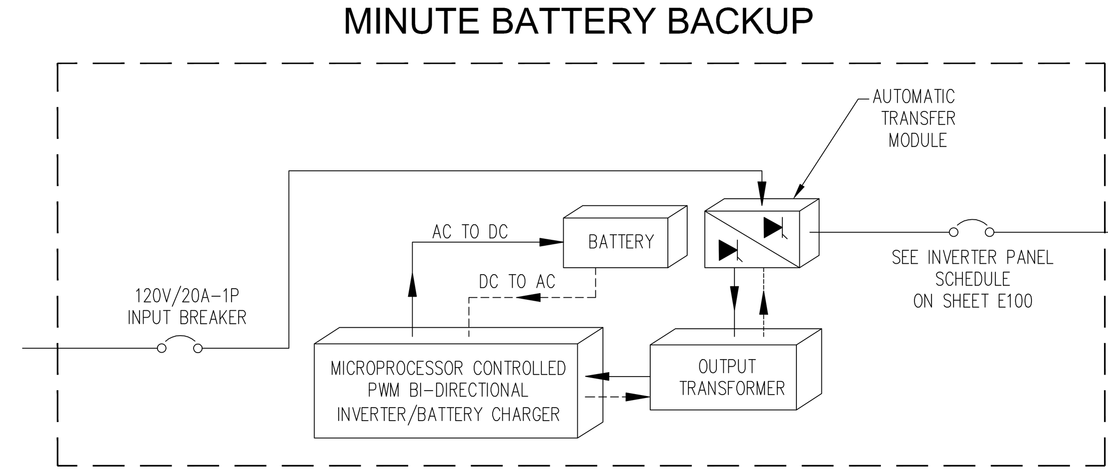

A / E001 SURFACE MOUNTING PANEL
SCALE: NONE

# LIGHTING FIXTURE SCHEDULE

| SYMBOL | FIXTURE TYPE | LAMPS NO. | LAMPS TYPE | BALLAST MANUFACTURER CAT. NO | DESCRIPTION | MANUFACTURER CAT. NO | FINISH | MOUNTING | REMARK |
|---|---|---|---|---|---|---|---|---|---|
| | A 38 | – | LED | LED DRIVER '0-10V' DIMMING TO 10% | 2X4' LED RECESSED TROFFER | LITHONIA #2BLT 46L ADP EZ1 LP840 | WHITE | RECESSED | – |
| | AE 38 | SAME AS TYPE 'A' EXCEPT WITH EMERGENCY LED DRIVER | | | | | | | |
| | B 125 | – | LED | LED DRIVER '0-10V' DIMMING TO 10% | 22" LED MID BAY | GRAN BELLA LED #BS8300LED-125W-WT30 | WHITE | PENDANT | – |
| | BE 125 | SAME AS TYPE 'B' EXCEPT WITH EMERGENCY LED DRIVER | | | | | | | |
| | P 36 | – | LED | LED DRIVER '0-10V' DIMMING TO 10% | LED WALL PACK | LITHONIA #DSXW2 LED 20C 530 40K T4M MVOLT PIR1FC3V | WHITE | WALL | W/ MOTION SENSOR & PHOTO CELL |
| | C 26 | – | LED | LED DRIVER '0-10V' DIMMING TO 10% | 6" LED DOWNLIGHT | LITHONIA #LDN6 35/15 L06AR | WHITE | RECESSED | – |
| | CE 26 | SAME AS TYPE 'C' EXCEPT WITH EMERGENCY LED DRIVER | | | | | | | |
| | D 42 | – | LED | LED DRIVER '0-10V' DIMMING TO 10% | 8' LED STRIPLIGHT | LITHONIA ZL1N L96 6000LM L MVOLT 40K 80CRI WH | WHITE | SURFACE/ SUSPENDED | – |
| | DE 42 | SAME AS TYPE 'D' EXCEPT WITH EMERGENCY LED DRIVER | | | | | | | |
| | F 0.7 | – | LED | – | EXIT SIGN | LITHONIA #LQM S W 3 R 120/277 EL N | WHITE | UNIVERSAL | – |
| | T 18 | – | LED | – | LED TRACK LIGHT | JUNO #SP254MLL-3K-S-STN | WHITE | UNIVERSAL | – |
| | K 24 | – | LED | – | LED OVER THE MIRROR | LITHONIA #MWVC3 BZ | WHITE | UNIVERSAL | – |

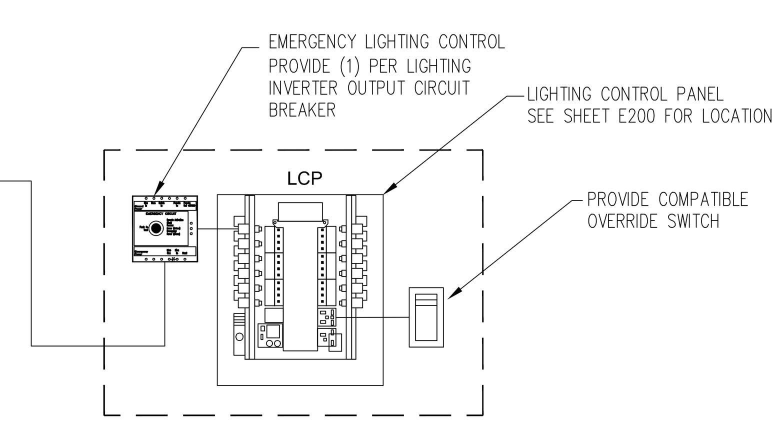
J

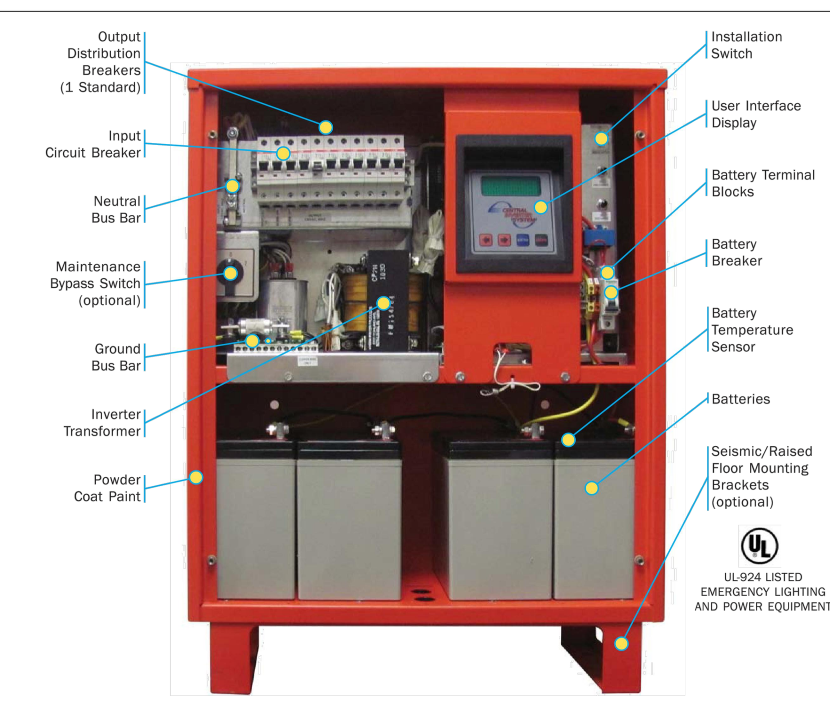
## EMERGENCY INVERTER WITH 90 MINUTE BATTERY BACKUP




DETAIL NOTES:

1. THE CONTRACTOR SHALL PROGRAM THE LIGHTING CONTROL SYSTEM PER THE OWNER/OR ARCHITECT.




B / E001 EMERGENCY LIGHTING INVERTER WITH "LCP" SYSTEM DIAGRAM
SCALE: NONE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PROJECT
VICTORY OUTREACH CHURCH
2311 STATHAM
OXNARD, CALIF

NOT FOR CONSTRUCTION
AN IN-HOUSE QUALITY CONTROL AND INTERFACE HAS NOT BEEN COMPLETED AND BUILDING DEPARTMENT REVISIONS HAVE NOT BEEN ADDED TO THESE CONSTRUCTION DRAWINGS. THE ARCHITECT AND HIS CONSULTANTS ASSUME NO RESPONSIBILITY FOR CONSTRUCTION BIDS OR CONSTRUCTION PERFORMED FROM THESE DRAWINGS.

STAMP
REGISTERED PROFESSIONAL ENGINEER ADEL POURSHARIF E21459 Exp 03/31/18 ELECTRICAL STATE OF CALIFORNIA

| REVISIONS |
|---|
| ISSUED: 5/26/2016 "CLIENT REVIEW SET" |
| ISSUED: 6/7/2016 "CITY SUBMITTAL /BID SET" |
| C ISSUED: 10/27/2016 "CITY RESUBMITTAL" |
| D ISSUED: 02/23/2017 "CITY RESUBMITTAL" |
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Drawn By:

Sheet Title: GENERAL NOTES

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E001


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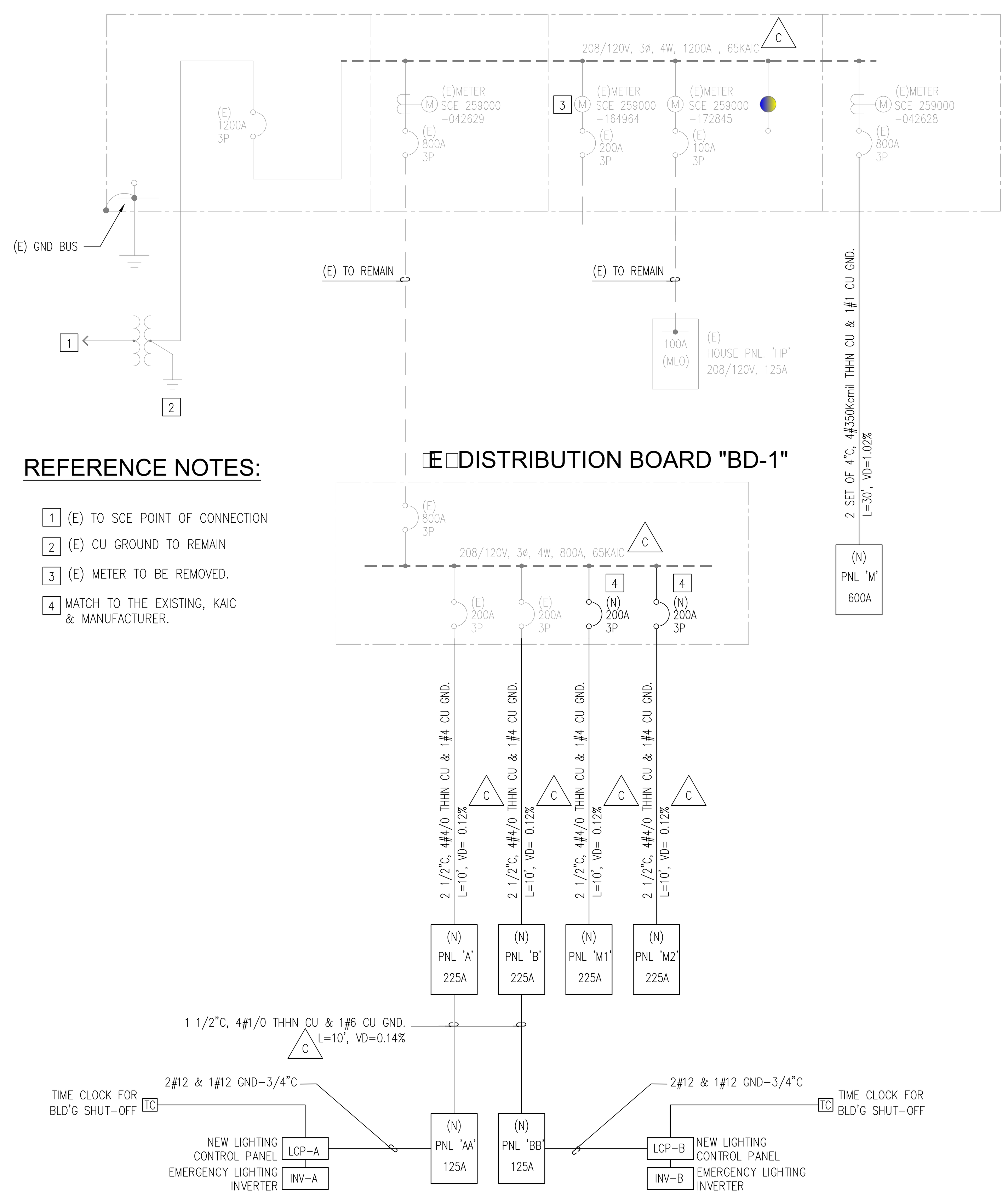


## REFERENCE NOTES:

1. (E) TO SCE POINT OF CONNECTION
2. (E) CU GROUND TO REMAIN
3. (E) METER TO BE REMOVED.
4. MATCH TO THE EXISTING, KAIC & MANUFACTURER.

## EXISTING SINGLE LINE DIAGRAM

SCALE: NONE

## SINGLE LINE DIAGRAM NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDUITS
2. ALL NEW CONDUCTOR SHALL BE COPPER
3. ALL EQUIPMENT AND CONDUITS SHOWN ARE EXISTING UNLESS NOTED OTHERWISE.
4. VISIT SITE BEFORE BIDDING PROJECT TO SEE ALL EXISTING CONDUITS. QUALIFY ANY EXISTING CONDITIONS IN BID THAT WERE FOUND DURING SITE VISIT. IF NO SITE VISIT IS DONE IT WILL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO DO PROJECT COMPLETE PER PLANS WITH NO EXTRA COST.
5. ELECTRICAL EQUIPMENT THAT IS IN OTHER THAN DWELLING UNITS AND LIKELY TO REQUIRE EXAMINATION OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN PEOPLE OF ELECTRIC ARC FLASH HAZARDS. 110-16 CEC.
6. ALL SWITCHBOARDS AND PANELBOARDS SUPPLIED BY A FEEDER IN OTHER THAN ONE OR TWO FAMILY DWELLINGS SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES. [CEC 408.4 (B)].
7. WIRING LOCATED WITHIN THE CAVITY OF A FIRE-RATED FLOOR-CEILING OR ROOF-CEILING ASSEMBLY SHALL NOT BE SECURED TO, OR SUPPORTED BY, THE CEILING ASSEMBLY, INCLUDING THE CEILING SUPPORT WIRES. AN INDEPENDENT MEANS OF SECURE SUPPORT SHALL BE PROVIDED AND SHALL BE PERMITTED TO BE ATTACHED TO THE ASSEMBLY. WHERE INDEPENDENT SUPPORT WIRES ARE USED, THEY SHALL BE DISTINGUISHABLE BY COLOR, TAGGING, OR OTHER EFFECTIVE MEANS FROM THOSE THAT ARE PART OF THE FIRE-RATED DESIGN. [300.10(1) CEC].

## LINE TYPE DESIGNATIONS

- INDICATES NEW TO BE INSTALLED (TO MATCH EXISTING)
- INDICATES EXISTING TO REMAIN PROTECT IN PLACE
- INDICATES SCOPE OF WORK (TO MATCH EXISTING)
- INDICATES EXISTING EQUIPMENT TO REMAIN PROTECT IN PLACE

A / E100 (E) MAIN SWITCHBOARD "MSB"
SCALE: NONE

B / E100 (E) DISTRIBUTION BOARD (DB-1)
SCALE: NONE

## NEW PANEL 'A'

| POLE NO. | C.B. AMP/P | LOAD DESCRIPTION | WATTS | LOAD TYPE | C.B. OPT. | ΦA | ΦB | ΦC | C.B. OPT. | LOAD TYPE | WATTS | LOAD DESCRIPTION | C.B. AMP/P | POLE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | GENERAL USED RECEPT. | 1,080 | R | | 2,160 | | | | R | 1,080 | GENERAL USED RECEPT. | 20/1 | 2 |
| 3 | 20/1 | GENERAL USED RECEPT. | 1,080 | R | | | 2,160 | | | R | 1,080 | GENERAL USED RECEPT. | 20/1 | 4 |
| 5 | 20/1 | GENERAL USED RECEPT. | 1,080 | R | | | | 2,160 | | R | 1,080 | REFRIGERATOR | 20/1 | 6 |
| 7 | 20/1 | GENERAL USED RECEPT. | 1,080 | R | | 2,160 | | | | K | 1,080 | MICROWAVE | 20/1 | 8 |
| 9 | 20/1 | SPARE | | | | | 1,080 | | | K | 1,080 | GARBAGE DISP. | 20/1 | 10 |
| 11 | 20/1 | SPARE | | | | | | 1,080 | | K | 1,080 | COFFEE MAKER | 20/1 | 12 |
| 13 | 20/1 | TEL. BK. BD | 720 | R | IG | 720 | | | | | | SPARE | 20/1 | 14 |
| 15 | 20/1 | GFCI RECEPT. | 720 | R | | | 720 | | | | | SPARE | 20/1 | 16 |
| 17 | 20/1 | LCP-A | 200 | M | | | | 920 | GFCI | R | 720 | ROOF RECEPT. | 20/1 | 18 |
| 19 | 20/1 | SPARE | | | | 720 | | | GFCI | R | 720 | ROOF RECEPT. | 20/1 | 20 |
| 21 | 20/1 | SPARE | | | | | 720 | | GFCI | R | 720 | ROOF RECEPT. | 20/1 | 22 |
| 23 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 24 |
| 25 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 26 |
| 27 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 28 |
| 29 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 30 |
| 31 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 32 |
| 33 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 34 |
| 35 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 36 |
| 37 | 20/1 | SPARE | | | | 9,480 | | | | M | 9,480 | NEW SUB-FED PANEL "AA" | | 38 |
| 39 | 20/1 | SPARE | | | | | 9,480 | | | M | 9,480 | - | 100/3 | 40 |
| 41 | 20/1 | SPARE | | | | | | 7,200 | | M | 7,200 | - | | 42 |

| ABBREVIATIONS | | CONN. LOAD PER Φ IN KW: | 15.24 | 14.16 | 11.36 | PANELBOARD RATINGS | |
|---|---|---|---|---|---|---|---|
| Φ | PHASE | LOAD SUMMARY | CONN. KW | DEMAND FACTOR | DEMAND KW | VOLTS: | 120/208 |
| A.I.C. | AMPERE INTERRUPTING CURRENT(KAIC=1000 AIC) | | | | | PHASES/WIRES: | 3PH/4W |
| C.B. | CIRCUIT BREAKER | LTG. & CONTIN. LOADS [L] | | 125.00% | | MAIN C.B.: | MLO |
| OPT. | CIRCUIT BREAKER OPTIONS OR SPECIAL FEATURES | RECEPT.S ≤ 10KVA [R] | 10.00 | 100.00% | 10.00 | BUS AMPERES: | 200A |
| | (WHERE NONE SHOWN PROVIDE THERMAL/MAG. C.B.) | RECEPT.S > 10KVA [R] | 1.16 | 50.00% | 0.58 | SPD REQ'D: | NO |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER | NON-CONT. LOADS [M] | 26.4 | 100.00% | 26.4 | ENCLOSURE: | NEMA 1, FLUSH |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | AIR COND/HTG LOADS [A] | | 100.00% | | AIC RATING: | 42KAIC |
| P | NUMBER OF POLES | COMM. KITCHEN LOADS [K] | | 65.00% | | | |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSION | TOTALS: | 37.5 | | 36.9 | HI Φ AMPS | DEMAND AMPS |
| | | DEMAND KW PER Φ: | 13.5 | 12.9 | 10.3 | 126.9 | 102.5 |

## NEW PANEL 'AA'

| POLE NO. | C.B. AMP/P | LOAD DESCRIPTION | WATTS | LOAD TYPE | C.B. OPT. | ΦA | ΦB | ΦC | C.B. OPT. | LOAD TYPE | WATTS | LOAD DESCRIPTION | C.B. AMP/P | POLE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | GENERAL USED RECEPT. | 1,080 | R | | 2,160 | | | | R | 1,080 | GENERAL USED RECEPT. | 20/1 | 2 |
| 3 | 20/1 | GENERAL USED RECEPT. | 1,080 | R | | | 2,160 | | | R | 1,080 | GENERAL USED RECEPT. | 20/1 | 4 |
| 5 | 20/1 | GENERAL USED RECEPT. | 1,080 | R | | | | 2,160 | | R | 1,080 | GENERAL USED RECEPT. | 20/1 | 6 |
| 7 | 20/1 | GENERAL USED RECEPT. | 1,080 | R | | 2,160 | | | | R | 1,080 | GENERAL USED RECEPT. | 20/1 | 8 |
| 9 | 20/1 | GENERAL USED RECEPT. | 1,080 | R | | | 2,160 | | | R | 1,080 | GENERAL USED RECEPT. | 20/1 | 10 |
| 11 | 20/1 | GENERAL USED RECEPT. | 720 | R | | | | 1,920 | | M | 1,200 | DEDICATED LOAD/CIRCUITRY | 20/2 | 12 |
| 13 | 20/1 | GENERAL USED RECEPT. | 720 | R | | 1,920 | | | | M | 1,200 | - | | 14 |
| 15 | 20/1 | REST ROOM RECEPT. | 720 | R | | | 1,800 | | | R | 1,080 | GENERAL USED RECEPT. | 20/1 | 16 |
| 17 | 20/1 | REST ROOM RECEPT. | 1,080 | R | GFCI | | | 2,160 | | R | 1,080 | GENERAL USED RECEPT. | 20/1 | 18 |
| 19 | 20/1 | GENERAL USED RECEPT. | 1,080 | R | | 2,160 | | | IG | R | 1,080 | GENERAL USED RECEPT. | 20/1 | 20 |
| 21 | 20/1 | GENERAL USED RECEPT. | 1,080 | R | | | 2,160 | | IG | R | 1,080 | GENERAL USED RECEPT. | 20/1 | 22 |
| 23 | 20/1 | GENERAL USED RECEPT. | 1,080 | R | | | | 2,160 | | R | 1,080 | GENERAL USED RECEPT. | 20/1 | 24 |
| 25 | 20/1 | WATER COOLER | 1,200 | M | | 2,280 | | | | R | 1,080 | GENERAL USED RECEPT. | 20/1 | 26 |
| 27 | 20/1 | WATER COOLER | 1,200 | M | | | 2,280 | | | R | 1,080 | GENERAL USED RECEPT. | 20/1 | 28 |
| 29 | 20/1 | NEW INVERTER 'INV-A' | 1,600 | M | | | | 1,620 | | M | 20 | LIGHTING CONTROL PANEL 'LCP-A' | 20/1 | 30 |
| 31 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 32 |
| 33 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 34 |
| 35 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 36 |
| 37 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 38 |
| 39 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 40 |
| 41 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 42 |

| ABBREVIATIONS | | CONN. LOAD PER Φ IN KW: | 10.68 | 10.56 | 10.02 | PANELBOARD RATINGS | |
|---|---|---|---|---|---|---|---|
| Φ | PHASE | LOAD SUMMARY | CONN. KW | DEMAND FACTOR | DEMAND KW | VOLTS: | 120/208 |
| A.I.C. | AMPERE INTERRUPTING CURRENT(KAIC=1000 AIC) | | | | | PHASES/WIRES: | 3PH/4W |
| C.B. | CIRCUIT BREAKER | LTG. & CONTIN. LOADS [L] | | 125.00% | | MAIN C.B.: | MLO |
| OPT. | CIRCUIT BREAKER OPTIONS OR SPECIAL FEATURES | RECEPT.S ≤ 10KVA [R] | 10.00 | 100.00% | 10.00 | BUS AMPERES: | 100A |
| | (WHERE NONE SHOWN PROVIDE THERMAL/MAG. C.B.) | RECEPT.S > 10KVA [R] | 14.84 | 50.00% | 7.42 | SPD REQ'D: | NO |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER | NON-CONT. LOADS [M] | 6.4 | 100.00% | 6.4 | ENCLOSURE: | NEMA 1, FLUSH |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | AIR COND/HTG LOADS [A] | | 100.00% | | AIC RATING: | 42KAIC |
| P | NUMBER OF POLES | COMM. KITCHEN LOADS [K] | | 65.00% | | | |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSION | TOTALS: | 31.3 | | 23.8 | HI Φ AMPS | DEMAND AMPS |
| | | DEMAND KW PER Φ: | 8.2 | 7.5 | 8.1 | 88.9 | 66.2 |

## NEW PANEL 'B'

| POLE NO. | C.B. AMP/P | LOAD DESCRIPTION | WATTS | LOAD TYPE | C.B. OPT. | ΦA | ΦB | ΦC | C.B. OPT. | LOAD TYPE | WATTS | LOAD DESCRIPTION | C.B. AMP/P | POLE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | GENERAL LIGHTING | 1,440 | L | | 2,880 | | | | L | 1,440 | GENERAL LIGHTING | 20/1 | 2 |
| 3 | 20/1 | GENERAL LIGHTING | 1,440 | L | | | 2,880 | | | L | 1,440 | GENERAL LIGHTING | 20/1 | 4 |
| 5 | 20/1 | GENERAL LIGHTING | 1,440 | L | | | | 2,880 | | L | 1,440 | GENERAL LIGHTING | 20/1 | 6 |
| 7 | 20/1 | GENERAL LIGHTING | 1,440 | L | | 2,880 | | | | L | 1,440 | GENERAL LIGHTING | 20/1 | 8 |
| 9 | 20/1 | GENERAL LIGHTING | 1,440 | L | | | 2,880 | | | L | 1,440 | GENERAL LIGHTING | 20/1 | 10 |
| 11 | 20/1 | GENERAL LIGHTING | 1,440 | L | | | | 2,880 | | L | 1,440 | GENERAL LIGHTING | 20/1 | 12 |
| 13 | 20/1 | PARKING POLE LIGHTING | 864 | L | | 1,804 | | | | L | 940 | WALL LIGHTING | 20/1 | 14 |
| 15 | 20/1 | PARKING POLE LIGHTING | 864 | L | | | 864 | | | | | SPARE | 20/1 | 16 |
| 17 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 18 |
| 19 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 20 |
| 21 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 22 |
| 23 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 24 |
| 25 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 26 |
| 27 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 28 |
| 29 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 30 |
| 31 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 32 |
| 33 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 34 |
| 35 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 36 |
| 37 | 20/1 | SPARE | | | | 5,760 | | | | M | 5,760 | NEW SUB-FED PANEL "BB" | | 38 |
| 39 | 20/1 | SPARE | | | | | 5,760 | | | M | 5,760 | - | 100/3 | 40 |
| 41 | 20/1 | SPARE | | | | | | 2,880 | | M | 2,880 | - | | 42 |

| ABBREVIATIONS | | CONN. LOAD PER Φ IN KW: | 13.32 | 12.38 | 8.64 | PANELBOARD RATINGS | |
|---|---|---|---|---|---|---|---|
| Φ | PHASE | LOAD SUMMARY | CONN. KW | DEMAND FACTOR | DEMAND KW | VOLTS: | 120/208 |
| A.I.C. | AMPERE INTERRUPTING CURRENT(KAIC=1000 AIC) | | | | | PHASES/WIRES: | 3PH/4W |
| C.B. | CIRCUIT BREAKER | LTG. & CONTIN. LOADS [L] | 19.95 | 125.00% | 24.94 | MAIN C.B.: | MLO |
| OPT. | CIRCUIT BREAKER OPTIONS OR SPECIAL FEATURES | RECEPT.S < 10KVA [ | | 100.00% | | BUS AMPERES: | 200A |
| | (WHERE NONE SHOWN PROVIDE THERMAL/MAG. C.B.) | RECEPT.S > 10KVA [R] | | 50.00% | | SPD REQ'D: | NO |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER | NON-CONT. LOADS [M] | 14.4 | 100.00% | 14.4 | ENCLOSURE: | NEMA 1, FLUSH |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | AIR COND/HTG LOADS [A] | | 100.00% | | AIC RATING: | 42KAIC |
| P | NUMBER OF POLES | COMM. KITCHEN LOADS [K] | | 65.00% | | | |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSION | TOTALS: | 34.3 | | 39.3 | HI Φ AMPS | DEMAND AMPS |
| | | DEMAND KW PER Φ: | 15.2 | 14.0 | 10.1 | 110.9 | 109.2 |

## NEW PANEL 'BB'

| POLE NO. | C.B. AMP/P | LOAD DESCRIPTION | WATTS | LOAD TYPE | C.B. OPT. | ΦA | ΦB | ΦC | C.B. OPT. | LOAD TYPE | WATTS | LOAD DESCRIPTION | C.B. AMP/P | POLE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 20/1 | GENERAL LIGHTING | 1,440 | L | | 2,880 | | | | L | 1,440 | GENERAL LIGHTING | 20/1 | 2 |
| 3 | 20/1 | GENERAL LIGHTING | 1,440 | L | | | 2,880 | | | L | 1,440 | GENERAL USED RECEPT. | 20/1 | 4 |
| 5 | 20/1 | GENERAL LIGHTING | 1,440 | L | | | | 2,880 | | L | 1,440 | GENERAL USED RECEPT. | 20/1 | 6 |
| 7 | 20/1 | GENERAL LIGHTING | 1,440 | L | | 2,880 | | | | L | 1,440 | GENERAL USED RECEPT. | 20/1 | 8 |
| 9 | 20/1 | GENERAL LIGHTING | 1,440 | L | | | 2,880 | | | L | 1,440 | GENERAL USED RECEPT. | 20/1 | 10 |
| 11 | 20/1 | NEW INVERTER 'INV-B' | 1,600 | M | | | | 3,040 | | L | 1,440 | GENERAL USED RECEPT. | 20/1 | 12 |
| 13 | 20/1 | SPARE | | | | 1,440 | | | | L | 1,440 | GENERAL USED RECEPT. | 20/1 | 14 |
| 15 | 20/1 | SPARE | | | | | 20 | | | M | 20 | LIGHTING CONTROL PANEL 'LCP-B' | 20/1 | 16 |
| 17 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 18 |
| 19 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 20 |
| 21 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 22 |
| 23 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 24 |
| 25 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 26 |
| 27 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 28 |
| 29 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 30 |
| 31 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 32 |
| 33 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 34 |
| 35 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 36 |
| 37 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 38 |
| 39 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 40 |
| 41 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 42 |

| ABBREVIATIONS | | CONN. LOAD PER Φ IN KW: | 7.20 | 5.78 | 5.92 | PANELBOARD RATINGS | |
|---|---|---|---|---|---|---|---|
| Φ | PHASE | LOAD SUMMARY | CONN. KW | DEMAND FACTOR | DEMAND KW | VOLTS: | 120/208 |
| A.I.C. | AMPERE INTERRUPTING CURRENT(KAIC=1000 AIC) | | | | | PHASES/WIRES: | 3PH/4W |
| C.B. | CIRCUIT BREAKER | LTG. & CONTIN. LOADS [L] | 17.28 | 125.00% | 21.60 | MAIN C.B.: | MLO |
| OPT. | CIRCUIT BREAKER OPTIONS OR SPECIAL FEATURES | RECEPT.S ≤ 10KVA [R] | | 100.00% | | BUS AMPERES: | 100A |
| | (WHERE NONE SHOWN PROVIDE THERMAL/MAG. C.B.) | RECEPT.S > 10KVA [R] | | 50.00% | | SPD REQ'D: | NO |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER | NON-CONT. LOADS [M] | 1.6 | 100.00% | 1.6 | ENCLOSURE: | NEMA 1, FLUSH |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | AIR COND/HTG LOADS [A] | | 100.00% | | AIC RATING: | 42KAIC |
| P | NUMBER OF POLES | COMM. KITCHEN LOADS [K] | | 65.00% | | | |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSION | TOTALS: | 18.9 | | 23.2 | HI Φ AMPS | DEMAND AMPS |
| | | DEMAND KW PER Φ: | 9.0 | 7.2 | 7.0 | 60.0 | 64.5 |

## NEW PANEL 'M'

| POLE NO. | C.B. AMP/P | LOAD DESCRIPTION | WATTS | LOAD TYPE | C.B. OPT. | ΦA | ΦB | ΦC | C.B. OPT. | LOAD TYPE | WATTS | LOAD DESCRIPTION | C.B. AMP/P | POLE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | SPARE | | | | 9,600 | | | | A | 9,600 | AC-16 | | 2 |
| 3 | 60/3 | -- | | | | | 9,600 | | | A | 9,600 | -- | 100/3 | 4 |
| 5 | | -- | | | | | | 9,600 | | A | 9,600 | -- | | 6 |
| 7 | | AC-13 | 7,584 | A | | 17,184 | | | | A | 9,600 | AC-17 | | 8 |
| 9 | 80/3 | -- | 7,584 | A | | | 17,184 | | | A | 9,600 | -- | 100/3 | 10 |
| 11 | | -- | 7,584 | A | | | | 17,184 | | A | 9,600 | -- | | 12 |
| 13 | | AC-14 | 7,584 | A | | 17,184 | | | | A | 9,600 | AC-18 | | 14 |
| 15 | 80/3 | -- | 7,584 | A | | | 17,184 | | | A | 9,600 | -- | 100/3 | 16 |
| 17 | | -- | 7,584 | A | | | | 17,184 | | A | 9,600 | -- | | 18 |
| 19 | | AC-15 | 7,584 | A | | 17,184 | | | | A | 9,600 | AC-19 | | 20 |
| 21 | 80/3 | -- | 7,584 | A | | | 17,184 | | | A | 9,600 | -- | 100/3 | 22 |
| 23 | | -- | 7,584 | A | | | | 17,184 | | A | 9,600 | -- | | 24 |
| 25 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 26 |
| 27 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 28 |
| 29 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 30 |
| 31 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 32 |
| 33 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 34 |
| 35 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 36 |
| 37 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 38 |
| 39 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 40 |
| 41 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 42 |

| ABBREVIATIONS | | CONN. LOAD PER Φ IN KW: | 61.15 | 61.15 | 61.15 | PANELBOARD RATINGS | |
|---|---|---|---|---|---|---|---|
| Φ | PHASE | LOAD SUMMARY | CONN. KW | DEMAND FACTOR | DEMAND KW | VOLTS: | 120/208 |
| A.I.C. | AMPERE INTERRUPTING CURRENT(KAIC=1000 AIC) | | | | | PHASES/WIRES: | 3PH/4W |
| C.B. | CIRCUIT BREAKER | LTG. & CONTIN. LOADS [L] | | 125.00% | | MAIN C.B.: | MLO |
| OPT. | CIRCUIT BREAKER OPTIONS OR SPECIAL FEATURES | RECEPT.S ≤ 10KVA [R] | | 100.00% | | BUS AMPERES: | 600 |
| | (WHERE NONE SHOWN PROVIDE THERMAL/MAG. C.B.) | RECEPT.S > 10KVA [R] | | 50.00% | | SPD REQ'D: | NO |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER | NON-CONT. LOADS [M] | | 100.00% | | ENCLOSURE: | NEMA 1, SURFACE |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | AIR COND/HTG LOADS [A] | 183.5 | 100.00% | 183.5 | AIC RATING: | 42KAIC |
| P | NUMBER OF POLES | COMM. KITCHEN LOADS [K] | | 65.00% | | | |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSION | TOTALS: | 183.5 | | 183.5 | HI Φ AMPS | DEMAND AMPS |
| | | DEMAND KW PER Φ: | 61.2 | 61.2 | 61.2 | 509.2 | 509.2 |

## NEW PANEL 'M2'

| POLE NO. | C.B. AMP/P | LOAD DESCRIPTION | WATTS | LOAD TYPE | C.B. OPT. | ΦA | ΦB | ΦC | C.B. OPT. | LOAD TYPE | WATTS | LOAD DESCRIPTION | C.B. AMP/P | POLE NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 30/2 | EXISITING AC-1 | 1,500 | A | | 3,000 | | | | A | 1,500 | EXISITING AC-7 | 30/2 | 2 |
| 3 | | -- | 1,500 | A | | | 3,000 | | | A | 1,500 | -- | | 4 |
| 5 | 30/2 | EXISITING AC-2 | 1,500 | A | | | | 3,000 | | A | 1,500 | EXISITING AC-8 | 30/2 | 6 |
| 7 | | -- | 1,500 | A | | 3,000 | | | | A | 1,500 | -- | | 8 |
| 9 | 30/2 | EXISITING AC-3 | 1,500 | A | | | 3,000 | | | A | 1,500 | EXISITING AC-9 | 30/2 | 10 |
| 11 | | -- | 1,500 | A | | | | 3,000 | | A | 1,500 | -- | | 12 |
| 13 | 30/2 | EXISITING AC-4 | 1,500 | A | | 3,000 | | | | A | 1,500 | EXISITING AC-10 | 30/2 | 14 |
| 15 | | -- | 1,500 | A | | | 3,000 | | | A | 1,500 | -- | | 16 |
| 17 | 30/2 | EXISITING AC-5 | 1,500 | A | | | | 3,000 | | A | 1,500 | EXISITING AC-11 | 30/2 | 18 |
| 19 | | -- | 1,500 | A | | 3,000 | | | | A | 1,500 | -- | | 20 |
| 21 | 30/2 | EXISITING AC-6 | 1,500 | A | | | 1,700 | | | M | 200 | EF-3 | 20/2 | 22 |
| 23 | | -- | 1,500 | A | | | | 1,700 | | M | 200 | -- | | 24 |
| 25 | 20/2 | EF-1 | 200 | M | | 400 | | | | M | 200 | EF-4 | 20/2 | 26 |
| 27 | | -- | 200 | M | | | 400 | | | M | 200 | -- | | 28 |
| 29 | 20/2 | EF-2 | 200 | M | | | | 400 | | M | 200 | EF-6 | 20/1 | 30 |
| 31 | | -- | 200 | M | | 200 | | | | | | SPARE | 20/1 | 32 |
| 33 | 20/1 | EF-5 | 200 | M | | | 200 | | | | | SPARE | 20/1 | 34 |
| 35 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 36 |
| 37 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 38 |
| 39 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 40 |
| 41 | 20/1 | SPARE | | | | | | | | | | SPARE | 20/1 | 42 |

| ABBREVIATIONS | | CONN. LOAD PER Φ IN KW: | 12.60 | 11.30 | 11.10 | PANELBOARD RATINGS | |
|---|---|---|---|---|---|---|---|
| Φ | PHASE | LOAD SUMMARY | CONN. KW | DEMAND FACTOR | DEMAND KW | VOLTS: | 120/208 |
| A.I.C. | AMPERE INTERRUPTING CURRENT(KAIC=1000 AIC) | | | | | PHASES/WIRES: | 3PH/4W |
| C.B. | CIRCUIT BREAKER | LTG. & CONTIN. LOADS [L] | | 125.00% | | MAIN C.B.: | MLO |
| OPT. | CIRCUIT BREAKER OPTIONS OR SPECIAL FEATURES | RECEPT.S ≤ 10KVA [R] | | 100.00% | | BUS AMPERES: | 200A |
| | (WHERE NONE SHOWN PROVIDE THERMAL/MAG. C.B.) | RECEPT.S > 10KVA [R] | | 50.00% | | SPD REQ'D: | NO |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER | NON-CONT. LOADS [M] | 2.0 | 100.00% | 2.0 | ENCLOSURE: | NEMA 1, FLUSH |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | AIR COND/HTG LOADS [A] | 33.0 | 100.00% | 33.0 | AIC RATING: | 42KAIC |
| P | NUMBER OF POLES | COMM. KITCHEN LOADS [K] | | 65.00% | | | |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSION | TOTALS: | 35.0 | | 35.0 | HI Φ AMPS | DEMAND AMPS |
| | | DEMAND KW PER Φ: | 12.6 | 11.3 | 11.1 | 104.9 | 97.2 |

MAKE: BY MYERS POWER PRODUCTS MODEL# 2-EM-2-S-BA2008

**INTERNAL INVERTER PANEL "INV-A"**

MAIN C/B: 20
VOLTAGE : 120
WIRE:2
KVA RATING :1.6

## PANEL "INV-A"

| Load Name | VA | BKR | CKT. # |
|---|---|---|---|
| INTERIOR EMERGENCY LIGHT | 200 | 20A-1P | 1 |
| INTERIOR EMERGENCY LIGHT | 200 | 20A-1P | 2 |
| INTERIOR EMERGENCY LIGHT | 200 | 20A-1P | 3 |
| INTERIOR EMERGENCY LIGHT | 200 | 20A-1P | 4 |
| INTERIOR EMERGENCY LIGHT | 200 | 20A-1P | 5 |
| SPARE | | | 6 |
| SPARE | | | 7 |
| SPARE | | | 8 |
| | | | TOTAL VA: 1000 |
| | | | TOTAL AMP: 8.3 |

MAKE: BY MYERS POWER PRODUCTS MODEL# 2-EM-2-S-BA2008

**INTERNAL INVERTER PANEL "INV-B"**

MAIN C/B: 20
VOLTAGE : 120
WIRE:2
KVA RATING :1.6

## PANEL "INV-B"

| Load Name | VA | BKR | CKT. # |
|---|---|---|---|
| INTERIOR EMERGENCY LIGHT | 200 | 20A-1P | 1 |
| INTERIOR EMERGENCY LIGHT | 200 | 20A-1P | 2 |
| INTERIOR EMERGENCY LIGHT | 200 | 20A-1P | 3 |
| INTERIOR EMERGENCY LIGHT | 200 | 20A-1P | 4 |
| INTERIOR EMERGENCY LIGHT | 200 | 20A-1P | 5 |
| SPARE | | | 6 |
| SPARE | | | 7 |
| SPARE | | | 8 |
| | | | TOTAL VA: 1000 |
| | | | TOTAL AMP: 8.3 |

## PANEL SCHEDULE NOTES:

DISCONNECTING MEANS ON MULTI-BRANCH CIRCUITS: EACH MULTI-BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.

## PANEL SCHEDULES

PANEL INDEX

| | |
|---|---|
| A | AA |
| B | BB |
| M | M2 |
| INV-A | INV-B |

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ADEL POURSHARIF
E21459
Exp 03/31/18
ELECTRICAL
STATE OF CALIFORNIA

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D ISSUED: 02/23/2017 "CITY RESUBMITTAL"
E ISSUED: 05/26/2017 "PLN.CHK.CORR."
BID SET 10/31/17

Date: 5/26/2016
Scale:
Project Number: 160422
Project Manager:
Drawn By:

Sheet Title: SINGLE LINE DIAGRAM & PANEL SCH.

SHEET NUMBER
E100

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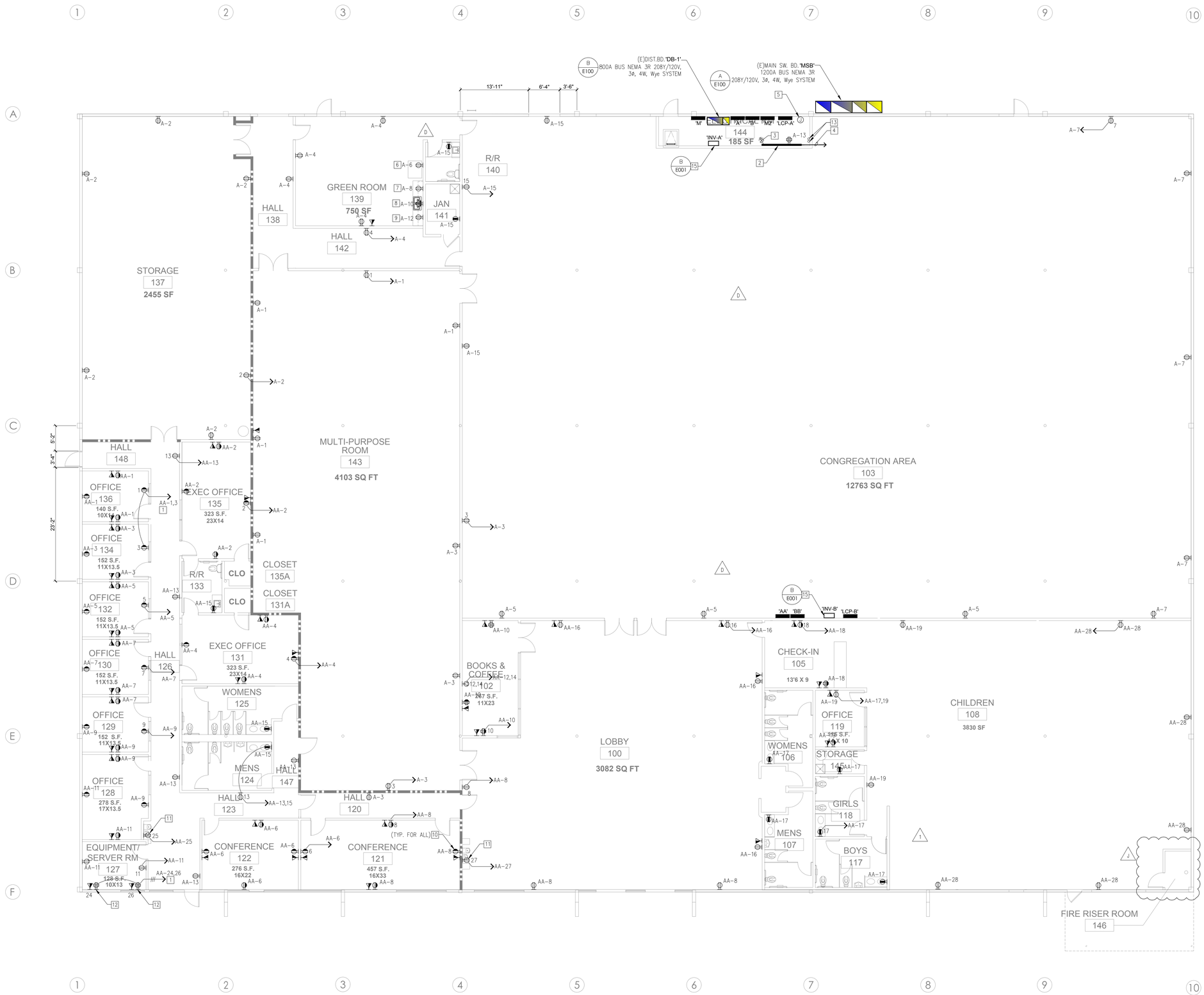


## GENERAL NOTES:

G1. PLANS ARE PREPARED WITH REQUIRED BRANCH CIRCUITS INDICATED BY CIRCUIT NUMBERS AND HOME RUNS. PROVIDE AND INSTALL ALL CONDUITS, CONDUCTORS BOXES, MISC. FITTINGS, ECT, FOR A COMPLETE OPERABLE SYSTEM. BRANCH CIRCUIT INSTALLATION SHALL COMPLY WITH SPECIFICATION AND C.E.C. (2013).

G2. ALL 125V, SINGLE PHASE, 20A RECEPTACLE(S) INSTALLED IN THE KITCHEN SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL, ART. 218.8(B).

G3. ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24" MINIMUM.

G4. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.

G5. HEIGHT OF ALL RECEPTACLES AT COUNTER SHELVES, ETC., SHALL BE VERIFIED WITH OWNER PRIOR TO ROUGH-IN. PROVIDE G.F.C.I. TYPE RECEPTACLE WITHIN 6 FEET OF ANY SINK.

G6. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHED. 40, MINIMUM 3/4"C. RUN CODE SIZE INSULATED EQUIPMENT GROUND CONDUCTOR.

G7. THE DETAILED IDENTIFICATION SHALL BE INCLUDED IN A CIRCUIT DIRECTORY THAT IS LOCATED ON THE FACE OR INSIDE OF THE PANEL DOOR IN THE CASE OF A PANELBOARD AND LOCATED AT EACH SWITCH ON A SWITCHBOARD.

## KEYED NOTES:

1. DISCONNECTING MEANS ON MULTI-BRANCH CIRCUITS: EACH MULTI-BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.
2. PROVIDE (1) 8'H X 3/4" THICK (LENGTH AS REQUIRED), PLYWOOD (MARINE GRADE) TELEPHONE BACKBOARD, A.I.C. FIRE RESISTANT TREATED. MOUNT FROM THE CEILING DOWN PAIN AND PAINT COLOR AS SELECTED BY ARCHITECT, DO NOT PAINT OVER FIRE SEAL.
3. PROVIDE COMPLETE CONNECTION (1) 1#6 AWG., CU-3/4"C. INSULATED (GREEN) GROUND TO "MSB" SYSTEM GROUND.
4. PROVIDE (1) 2"C.O. TO MAIN BUILDING TELEPHONE BACKBOARD. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ANY INSTALLATION.
5. PROVIDE A J.BOX NEAR PANEL FOR CIRCUITS WITH MULTIPLE HOMERUNS.
6. PROVIDE COMPLETE CONNECTION TO FULL SIZE REFRIGERATOR.
7. PROVIDE COMPLETE CONNECTION TO MICROWAVE, EC., TO COORDINATE NEMA CONFIGURATION OF RECEPTACLE WITH SUPPLIER BEFORE ANY INSTALLATION.
8. PROVIDE COMPLETE CONNECTION TO GARBAGE DISPOSAL WITH ALL ASSOCIATED ON-OFF SWITCH.
9. PROVIDE COMPLETE CONNECTION TO COUNTER TOP COFFEE MAKER.
10. CONTRACTOR TO PROVIDE A SPLIT-WIRED RECEPTACLE(S) IN ORDER TO COMPLY WITH SECTION 130.5(d) REQUIRED BY 2013 TITLE 24 ENERGY CODE. RECEPTACLE(S) SHALL BE EQUIPPED WITH AUTOMATIC SHUT-OFF CONTROL, IN THIS CASE-ROUTE POWER BRANCH CIRCUIT(S) TO THE NEW LIGHTING CONTROL PANEL, AS REQUIRED. CONTRACTOR SHALL ALSO PROVIDE A PERMANENT MARKING IN ORDER TO DIFFERENTIATE FROM UN-CONTROLLED RECEPTACLE(S) WITHIN THE SPACE.
11. PROVIDE COMPLETE CONNECTION TO WATER COOLER, EC., TO COORDINATE NEMA CONFIGURATION OF RECEPTACLE WITH SUPPLIER BEFORE ANY INSTALLATION.
12. VERIFY EXACT LOCATION OF ALL SERVER ROOM EQUIPMENT AND RECEPTACLE(S) DEVICE(S) LOCATIONS WITH I.T. CONSULTANT/OR ARCHITECT PRIOR TO ROUGH-IN.
13. PROVIDE A (2)4" C.O. STUBBED 6" ABOVE ACCESSIBLE CEILING SPACE.
14. NOT USED.
15. EMERGENCY INVERTER SYSTEM WITH 90 MINUTE BATTERY BACKUP. MAKE: BY MYERS POWER PRODUCTS MODEL# 2-EM-2-S-BA2008 (120V,1ø,1600W)

# POWER FLOOR PLAN

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

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## GENERAL NOTES:

G1. PLANS ARE PREPARED WITH REQUIRED BRANCH CIRCUITS INDICATED BY CIRCUIT NUMBERS AND HOME RUNS. PROVIDE AND INSTALL ALL CONDUITS, CONDUCTORS, BOXES, MISC. FITTINGS, ECT, FOR A COMPLETE OPERABLE SYSTEM. BRANCH CIRCUIT INSTALLATION SHALL COMPLY WITH SPECIFICATION AND C.E.C. (2013).

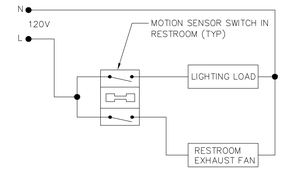
G2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FIXTURES LOCATION AND DETAILS. SUBCRIPTS IN LIGHTING PLAN DENOTES SWITCH. EXAMPLE: 2a, 2 DENOTES CIRCUIT NUMBER AND a DENOTES SWITCH THAT CONTROLS CORRESPONDING LIGHTS.

G3. DAYLIGHT RESPONSE PROVIDED BY PHOTOCELL AT AREAS WHERE GLAZING EXCEEDS 24 SQUARE FEET AND/OR WATTAGE INSTALLED IN DAYLIT AREA EXCEEDS 120W.

G4. HALF-SOLID HATCHED FIXTURE(S) INDICATES EMERGENCY FIXTURE(S).

## KEYED NOTES:

1. PROVIDE ONE CONSTANT HOT WIRE FOR CHARGING/SENSING EMERGENCY DRIVER.
2. THE CORRIDOR IS TO DIM TO 50% WHEN UNOCCUPIED DURING THE DAY, AND TURN OFF WHEN UNOCCUPIED AFTER HOURS. VERIFY PROGRAM WITH OWNER. PROVIDE PIR (PASSIVE INFRARED) OCCUPANCY SENSOR.
3. PROVIDE MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOADS. EXHAUST FAN SHALL BE POWERED & CONTROLLED BY RESPECTIVE ROOMS LIGHTING CIRCUIT & SWITCH. REFER TO MANUF. REP. FOR EXACT WIRING REQUIREMENTS (TYP. FOR ALL).
4. PROVIDE A SEPARATE HOT WIRE OF UBSWITCHED LIGHTING CIRCUIT TO EMERGENCY FIXTURE(S), (AND /OR EXIT SIGN), BY-PASSING ALL SWITCHING AND LIGHTING CONTROL AS REQUIRED. BOTH 'EM' AND EXIT SIGN SHALL BE EQUIPPED WITH 90 MINUTES BATTERY PACK-UP. (TYPICAL THROUGHOUT PLANS).




1 / E-3 SCHEMATIC FOR REST RM. EXHAUST FAN
SCALE: NONE

## LIGHTING FLOOR PLAN

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

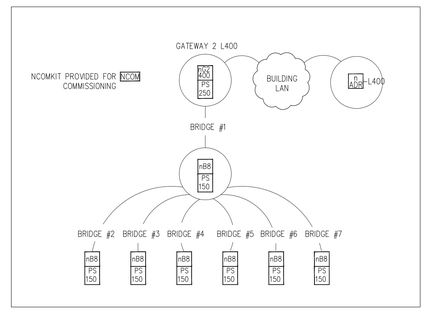
SCALE: 1/8"=1'-0"

NORTH

## GENERAL NOTES

- THIS DESIGN IS BASED ON SHEET E300, DATED 5/26/2016
- THIS DESIGN IS PRELIMINARY AND IS SUBJECT TO CHANGE DEPENDING ON LIGHTING AND POWER CIRCUITING. PLEASE PROVIDE FULL INFORMATION AND ASK FOR A REVISED B.O.M.
- ADDITIONAL SENSORS ARE PROVIDED FOR 90% COVERAGE.
- EM SYSTEM IS CONSIDERED TO BE BATTERY PACK.
- PLUG LOAD CONTROL IS ESTIMATED AND MUST BE VERIFIED BY THE ELECTRICAL CONTRACTOR.
- ALL TRACK LIGHTING IS ASSUMED TO BE 120V ELV. DIMMING, ALL OTHER FIXTURES ARE ASSUMED TO 0-10V.
- A LIGHTING ZONE CANNOT EXCEED 1500 FT. IN CAT5. IF EXCEEDING THIS LENGTH, THE ZONE WILL NEED TO BE BROKEN INTO SMALLER ZONES AND MAY REQUIRED ADDITIONAL MATERIAL AND/OR GLOBAL CHANNEL PROGRAMMING TO MEET THE SPECIFIED SEQUENCE OF OPERATIONS.
- DAYLIGHT HARVESTING IS USED IN AREAS WITH > 120 WATTS CONNECTED LOAD AND MORE THAN 24 SQ. FT. OF TOTAL GLAZED AREA.
- DAYLIGHT HARVESTING IS PLACED IN THE PRIMARY DAYLIGHT ZONE ALL ASSOCIATED CONTROL DEVICES WILL BE DESIGNATED WITH A "+" , FIXTURES IN THE SECONDARY ZONE WILL BE PROGRAMMED TO BE OFFSET FROM THE PRIMARY ZONE AND ALL ASSOCIATED CONTROL DEVICES WILL BE DESIGNATED WITH A "++".
- AUTOMATIC DEMAND RESPONSE CAPABILITY IS USED IN AREAS LARGER THAN 10,000 SQ.FT PER THE 2013 T24 REQUIREMENT. SYSTEMS WITH AUTOMATIC DEMAND RESPONSE ARE FULLY NETWORKED AND OFFER CENTRALIZED PROGRAMMING AND CONTROL CAPABILITIES.
- THE SYSTEM IS FULLY NETWORKED BY GATEWAY AND BRIDGES, AND OFFERS CENTRALIZED TIME CLOCK PROGRAMMING AND CONTROL CAPABILITIES.
- LOCATION OF GATEWAY AND BRIDGES TO BE DETERMINED BY THE CONTRACTOR BASED ON FIELD CONDITIONS. CAT5 BETWEEN EACH BRIDGE CONNECTION CANNOT EXCEED 1500 FT.
- ALL CAT5 CABLE SHOWN IN THIS DESIGN IS TO BE SUPPLIED BY OTHERS. CONTRACTOR TO VERIFY LENGTH AND QUANTITY PRIOR TO PLACING ORDER.
- A SINGLE GANG WALLPOD WITH INTEGRATED OCCUPANCY SENSOR HAS BEEN UTILIZED IN LIEU OF A CEILING MOUNTED OCCUPANCY SENSOR WHERE APPLICABLE TO REDUCE TOTAL DEVICE COUNT. PLEASE VERIFY IF THIS IS AN ACCEPTABLE SOLUTION.
- LIGHTING CONTROL SYSTEM SHALL HAVE ON SITE START-UP PERFORMED BY THE MANUFACTURER'S TRAINED TECHNICIAN. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR START-UP REQUIREMENTS.
- AN NCOMM KIT HAS BEEN PROVIDED FOR ON-SITE COMMISSIONING.
- MULTI-GANG WALL SWITCHES HAVE BEEN CONSOLIDATED INTO A SINGLE GANG WALLPOD, PLEASE VERIFY IF THIS IS AN ACCEPTABLE SOLUTION.
- SENSOR PLACEMENT AND QUANTITY ARE ESTIMATED. IF EXACT NUMBER AND LOCATION IS REQUIRED, PLEASE PROVIDE FURNITURE PLANS.

| | | |
|---|---|---|
| 34 | | BRIDGE PORT CONNECTION POINTS |
| 7 | nBB PS 150 | nBRG 8 KIT<br>Bridge-8 Port with<br>150 mA power supply |
| 1 | n ADR L400 | nADR L400<br>OpenADR Demand Response Client Interface: Supports up to one (1) nGWY2 L400 version nLight Gateway |
| 27 | nCM | nCM 10<br>Extended Range 360° Sensor-Ceiling Mount,<br>Low Voltage, Passive Infrared (PIR) |
| 2 | nCM ADCX | nCM ADCX<br>Automatic Dimming Control Photocell-<br>Ceiling Mount, Low Voltage (No Wires) |
| 13 | nCM PDT 9 | nCM PDT 9<br>Standard Range 360° Sensor, Ceiling Mount,<br>Low Voltage, Dual Technology (PDT) |
| 63 | NEF | nLIGHT ENABLED FIXTURE<br>(USED FOR DEVICE COUNTING ONLY) |
| 1 | nGWY2 L400 PS 250 | nGWY2 L400 KIT<br>nGateway2 KIT consists of a nGWY2 CTRL L400 Unit, a nGateway2 GFX, one PS 250 (250 mA power supply), Sensorview Software MAX Devices 400 |
| 2 | n PODM 2P DX | nPODM 2P DX [COLOR]<br>2 Channel On/Off Toggle With Dimming |
| 18 | n PODM DX | nPODM DX [COLOR]<br>1 Channel On/Off Toggle With Dimming |
| 6 | nP | nPP16<br>Power/Relay Pack: 16A 120/277 VAC |
| 21 | nP D | nPP16 D<br>Power/Relay Pack: 16A 120/277 VAC w/ 0-10VDC Dimming |
| 10 | nP PL | nPP20 PL<br>Plug Load Control Power Pack; 20A @ 120VAC 506/60HZ |
| 3 | nSP PCD S LV | nSP5 PCD ELV 120<br>Secondary Relay Pack w/ Electronic Reverse Phase Control<br>Dimming: 4 Amps 500W/120VAC, Non Inductive Loads |
| 2 | nWSX LV DX | nWSX LV DX [COLOR]<br>Wall Switch Decorator Sensor-Passive Infrared (PIR),<br>Low Voltage; Raise/Lower Dim Control |
| 22 | nWSX PDT LV DX | nWSX PDT LV DX [COLOR]<br>Wall Switch Decorator Sensor-Dual Technology (PDT),<br>Low Voltage; Raise/Lower Dim Control |
| 1 | NCOM | NCOMKIT<br>nLIGHT PROGRAMMING TOOL USED TO PROGRAM STANDALONE NLIGHT ZONES |
| 2 | $XD 2P | WSX PDT 2P [COLOR]<br>Wall Switch Decorator Sensor-Dual Technology (PDT), w/Convertible Neutral/No Neutral Wiring; 2 Pole (1-Auto On/2-Vacancy Default) |
| 4 | $XD | WSX PDT [COLOR]<br>Wall Switch Decorator Sensor-Dual Technology (PDT), w/Convertible Neutral/No Neutral Wiring; |

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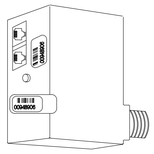
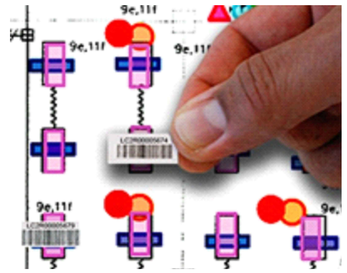
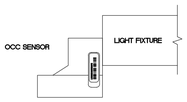
BAR CODE ON NLIGHT ENABLED FIXTURE
TOP VIEW




BAR CODE ON NLIGHT DEVICE



BAR CODE ON FIXTURE W/O SENSOR
TOP VIEW




BAR CODE ON FIXTURE WITH SENSOR
FRONT VIEW

IMPORTANT: WIRELESS LUMINAIRE AND DEVICE BARCODES

The small barcode labels included with all XPoint Wireless luminaires and devices must be placed on a printed plan by the installer prior to Onsite System Startup.

The barcode indicates the unique ID of each XPoint Wireless device. This ID is used during System Startup to program devices with the correct groupings and settings. Without this, System Startup will require additional days on the job to locate device IDs.

Barcode Instructions:

1. Print a plan of the installation area to a minimum D size (24" x 36"). The plan may be a reflected ceiling plan, lighting plan, or electrical plan, so long as all devices can be located by the Field Support Engineer.

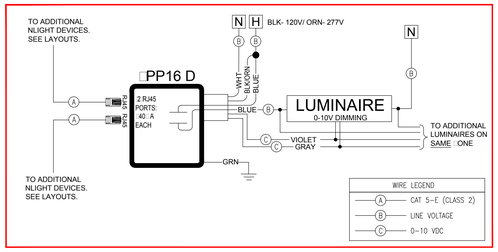
2. Place the small barcode label (0.875" long) from each luminaire and device on the floorplan. The large barcode label (1.25" long) can be used on the outside of any housing or junction box that obscures the ID number shown on the device itself.

3. Save the plan at the job site, and hand over to Acuity Field Support Engineer or other personnel responsible for Onsite System Startup. It is also acceptable to provide the barcode plan in the following ways:
   a. Scan plan(s) with labels to PDF and email to controls.startups@acuitybrands.com, with Project Name and Project Address in subject line and a copy of the Onsite Startup Request form.
   b. Send plan(s), with a hard copy of the Onsite Startup Request form, via courier with tracking services (e.g. FedEx) to:
   Acuity Brands - Controls Startups, 9144 Deering Ave, Los Angeles, CA 91311

Additional Notes:
1. Draw on plan any location changes for a fixture or devices, if different than shown on plan.
2. Highlight or circle on the plan any luminaire fed by emergency or egress circuit.

## NLIGHT BARCODE INSTRUCTIONS

N.T.S.




## TYPICAL WIRING DIAGRAM: NPP16 D

N.T.S.

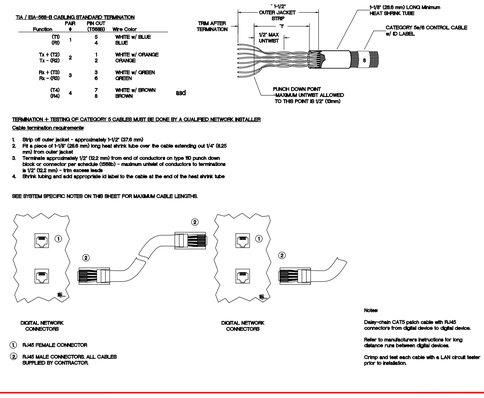
| Function | Wire Color | T568B Pin Out |
|---|---|---|
| +24 VDC | Brown | 8 |
| Common | White w/ Brown | 7 |
| (Not Used) | Green | 6 |
| (Not Used) | White w/ Green | 3 |
| (Not Used) | Orange | 2 |
| (Not Used) | White w/ Orange | 1 |
| DATA A | Blue | 4 |
| DATA B | White w/ Blue | 5 |

SEE CAT5e/6 CABLE TERMINATION DETAIL THIS SHEET

Maximum Cat. 5/5e/6 cable length per bus is 1500ft. Cable length and routing shall be verified by the EC/Installer prior to release. Manufacturer is not responsible for systems exceeding cabling parameters.

## NLIGHT NETWORK BUS

N.T.S.




## CAT5e/6 CABLE TERMINATION

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VICTORY OUTREACH CHURCH OF OXNARD
2311 STATHAM BLVD.,
OXNARD, CA

PROJECT
VICTORY OUTREACH CHURCH
2311 STATHAM
OXNARD, CALIF

NOT FOR CONSTRUCTION

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REGISTERED PROFESSIONAL ENGINEER
MICHAEL POURNARAS
No. E-21459
06/30/18
ELECTRICAL
STATE OF CALIFORNIA

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| D ISSUED: 02/23/2017 "CITY RESUBMITTAL" |
| E ISSUED: 05/26/2017 "PLN.CHK.CORR." |
| BID SET 10/31/17 |

Date: 5/26/2016
Scale:
Project Number: 160422
Project Manager:
Drawn By:

Sheet Title: LIGHTING CONTROL DETAILS

SHEET NUMBER
E302 C

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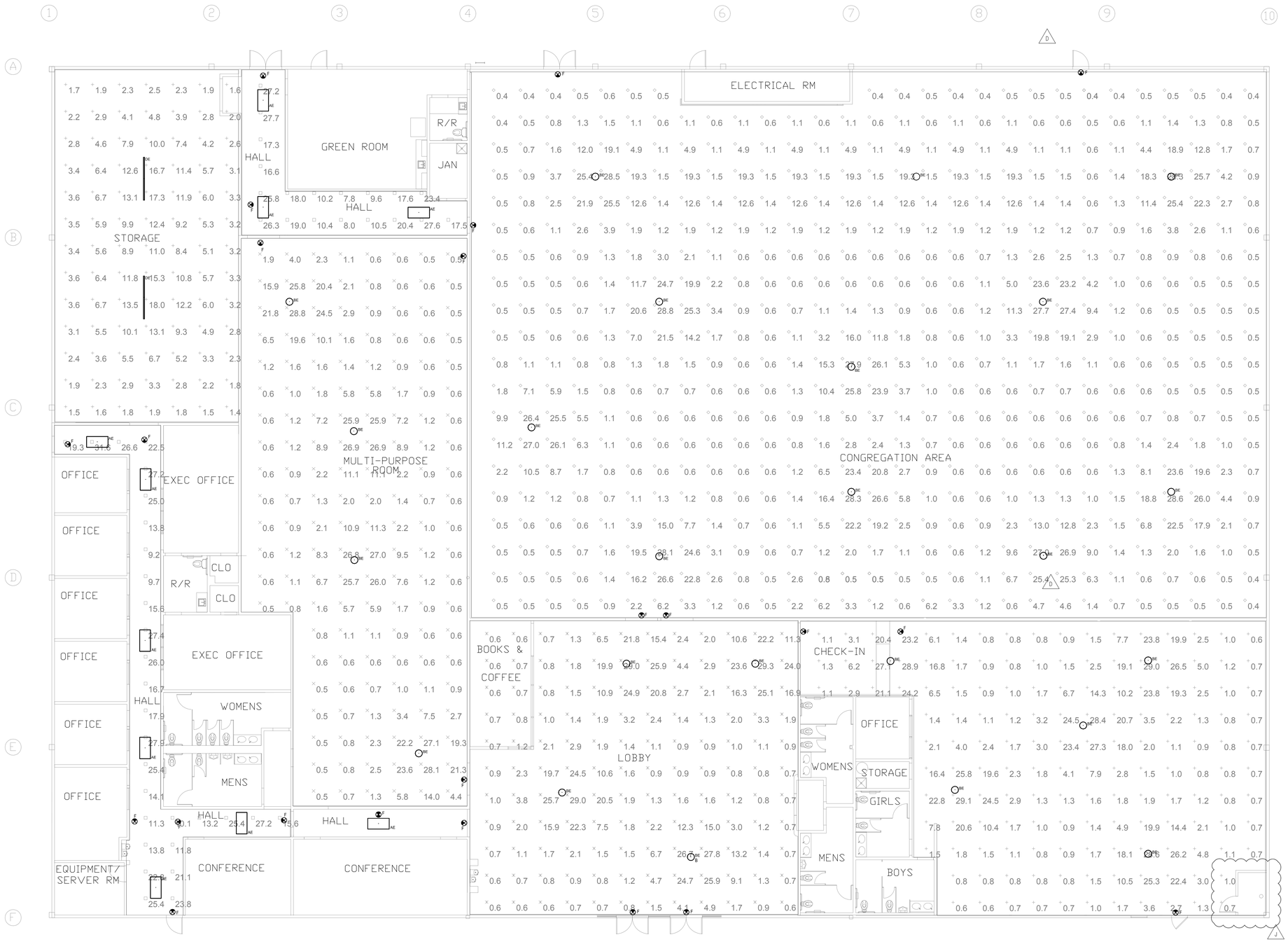
FILENAME: P:\ACTIVE\160422 OVCF OXNARD\OXNARD - 160422\05 CONSTRUCTION\DOCUMENTS\DRAWING\SHEETS\E302.DWG




| Statistics | | | | | | | |
|---|---|---|---|---|---|---|---|
| Description | Symbol | Avg | Max | Min | Max/Min | Avg/Min | Avg/Max |
| Children | + | 6.8 fc | 29.1 fc | 0.6 fc | 48.5:1 | 11.3:1 | 0.2:1 |
| Congregation Area | ◇ | 4.4 fc | 28.8 fc | 0.4 fc | 72.0:1 | 11.0:1 | 0.2:1 |
| Hall-North | □ | 17.9 fc | 27.7 fc | 7.8 fc | 3.6:1 | 2.3:1 | 0.6:1 |
| Hall-South | □ | 19.9 fc | 31.6 fc | 9.2 fc | 3.4:1 | 2.2:1 | 0.6:1 |
| Lobby | ✳ | 6.3 fc | 29.3 fc | 0.6 fc | 48.8:1 | 10.5:1 | 0.2:1 |
| Multi-Purpose Room | × | 5.2 fc | 28.8 fc | 0.5 fc | 57.6:1 | 10.4:1 | 0.2:1 |
| Storage | + | 5.7 fc | 18.0 fc | 1.4 fc | 12.9:1 | 4.1:1 | 0.3:1 |

# PHOTOMETRIC PLAN

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

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REGISTERED PROFESSIONAL ENGINEER — ROUL A. POUR-BARON — No. E 21459 — EXP. 06/30/2018 — ELECTRICAL — STATE OF CALIFORNIA

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| | MISC. REVISION 03/09/2018 |

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Project Manager:
Drawn By:

Sheet Title: PHOTOMETRIC PLAN

SHEET NUMBER

E303

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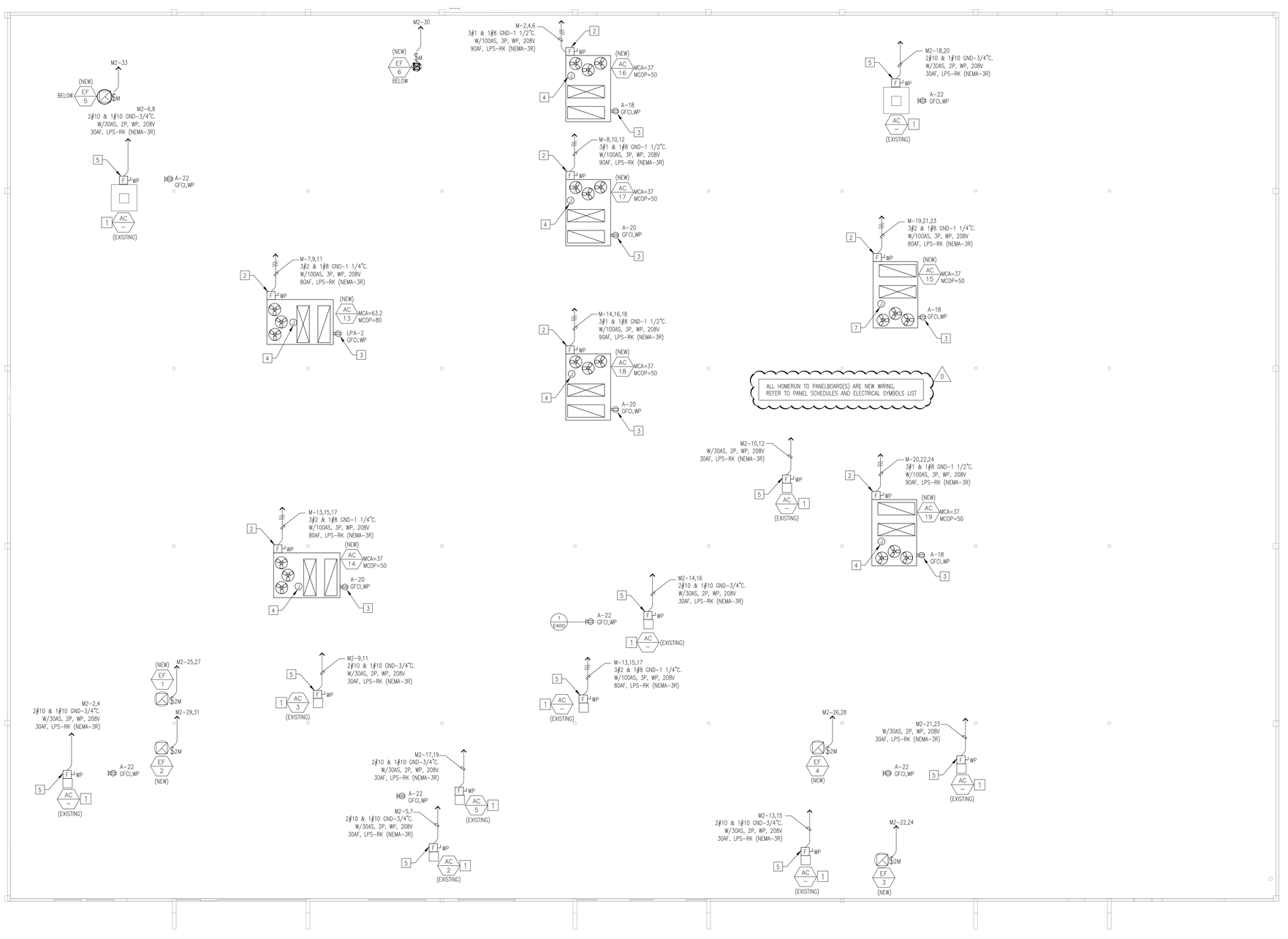
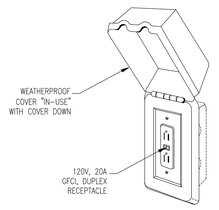



## KEYED NOTES:

1. DENOTES EXISTING ROOF MOUNTED HVAC UNITS WITH ALL ASSOCIATED (FEEDER/HOMERUN) W.P./NEMA-3R FUSIBLE DISCONNECT SWITCH CONNECTING TO UNIT. TO REMAIN. PROTECT IN PLACE. CONFIRM EXACT CONDITION, REUSE IF FEASIBLE, ALL EXISTING J-BOX WITH ALL ASSOCIATED WIRES AND CONDUIT FOR CONTROL WIRING TO EXISTING UNIT. CONFIRM EXACT CONDITION, REUSE IF FEASIBLE, WITH ALL EXISTING WP/GFCI WITH ALL ASSOCIATED WIRES AND CONDUIT FOR HVAC SERVICE RECEPTACLE. CONFIRM EXACT CONDITION, REUSE IF FEASIBLE.
2. ELECTRICAL CONTRACTOR TO PROVIDE SERVICE DISCONNECTS.
3. PROVIDE MAINTENANCE RECEPTACLE EITHER ON PARAPET WALL MINIMUM OF +18" AFF OR WITHIN RTU WITH A TOTAL DISTANCE NOT TO EXCEED 25' OF ALL ROOF MOUNTED EQUIPMENT.
4. REFER TO MECHANICAL DRAWINGS FOR FACTORY PROVIDED SMOKE/DUCT DETECTOR(S), INFORMATION INCLUDING ANY LISTING AND LABELING REQUIREMENTS.
5. DENOTES EXISTING W.P. 30AS/200F/2P-- FUSIBLE DISCONNECT SWITCH CONNECTING TO EXISTING A/C UNIT(S). CONFIRM EXACT CONDITION, REUSE IF FEASIBLE

## HVAC NOTES

1. VERIFY EXACT LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF CONDUITS.
2. ALL EQUIPMENT, DEVICES, DISCONNECT SWITCHES, JUNCTION BOXES, ETC. ON ROOF SHALL BE WEATHERPROOF.
3. ALL CONDUIT RUNS FOR ROOF MOUNTED EQUIPMENT OR DEVICES SHALL BE RUN BELOW ROOF, NOT EXPOSED. PROVIDE AND FILL PATCH POCKETS FOR ALL CONDUIT/ROOF PENETRATIONS.
4. FOR ITEMS TO BE FURNISHED AND/OR INSTALLED BY ELECTRICAL CONTRACTOR SEE MECHANICAL DRAWINGS.
5. REFER TO MECHANICAL DRAWINGS CONTROL DIAGRAM FOR ALL TIME SWITCHES, RELAYS, STARTERS, THERMOSTATS, CONDUIT FOR LINE/LOW VOLTAGE AS REQUIRED.
6. E.C. SHALL MAKE CONNECTION TO CONDENSING UNIT (FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, COMPLETE WITH DISC. SWITCH.)
7. PROVIDE COMPLETE CONNECTION TO BLD'G. WATER HEATER CIRCULATING PUMP.
8. PROVIDE LIDUID-TIGHT FLEXIBLE CONDUIT BETWEEN HVAC UNIT(S) AND ITS DISCONNECT SWITCH. LENGTH OF FLEXIBLE CONDUIT SHALL NOT EXCEED 6 FEET.
9. PROVIDE DISC. SW. AT ALL PIECES OF EQUIPMENT, UNLESS OTHERWISE NOTED ON THIS SCHEDULE.
10. FUSES SHOWN FOR REFERENCE ONLY, PROVIDE FUSES AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
11. PROVIDE NEMA OUTDOOR RATED ENCLOSURES FOR ALL DISC. SW. MOUNTED OUTDOORS.
12. COORDINATE STARTER TYPE WITH MECHANICAL EQUIPMENT INSTALLER. E.C. TO VERIFY THAT C.B. FOR COMPRESSOR IS SUFFICIENT TO ALLOW STARTING.
13. #12 FEEDERS SHOWN AND OVER 50FT. LONG TO BE #10 WIRE FOR 120V CIRCUITS.




1 E400 WEATHERPROOF RECEPTACLE
SCALE: NONE

# ROOF POWER PLAN

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

NORTH

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REGISTERED PROFESSIONAL ENGINEER
RAFAEL POLIQUIN
No. E 21459
ELECTRICAL
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| BID SET 10/31/17 |

Date: 5/26/2016
Scale:
Project Number: 160422
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Sheet Title: ROOF POWER PLAN

SHEET NUMBER
E400

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STATE OF CALIFORNIA
## INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-01-E |
| Indoor Lighting | (Page 1 of 6) |
| Project Name: VICTORY OUTREACH CHURCH | Date Prepared: 5-26-16 |

**A. General Information**

| | | | |
|---|---|---|---|
| Climate Zone: 06 | Conditioned Floor Area : 3,841 | | |
| | Unconditioned Floor Area : | | |
| Building Type: | ☒ Nonresidential | ☐ High-Rise Residential | ☐ Hotel/Motel |
| ☐ Schools | ☐ Relocatable Public Schools | ☒ Conditioned Spaces | ☐ Unconditioned Spaces |
| Phase of Construction: | ☐ New Construction | ☐ Addition | ☒ Alteration |
| Method of Compliance: | ☐ Complete Building | ☒ Area Category | ☐ Tailored |
| Project Address: | | | |

**B. Lighting Compliance Documents (select yes for each document included)**

*For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.*

| YES | NO | FORM | TITLE |
|---|---|---|---|
| X | | NRCC-LTI-01-E | Certificate of Compliance. All Pages required on plans for all submittals. |
| X | | NRCC-LTI-02-E | Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals. |
| X | | NRCC-LTI-03-E | Indoor Lighting Power Allowance |
| | X | NRCC-LTI-04-E | Tailored Method Worksheets |
| | X | NRCC-LTI-05-E | Line Voltage Track Lighting Worksheets |

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA
## INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-01-E |
| Indoor Lighting | (Page 2 of 6) |
| Project Name: VICTORY OUTREACH CHURCH | Date Prepared: 5-26-16 |

**C. Summary of Allowed Lighting Power**

Conditioned and Unconditioned space Lighting must not be combined for compliance

| | Indoor Lighting Power for Conditioned Spaces | | Watts | Indoor Lighting Power for Unconditioned Spaces | | Watts |
|---|---|---|---|---|---|---|
| 1. | **Installed** Lighting NRCC-LTI-01-E, page 4 | + | 21,496 | **Installed** Lighting NRCC-LTI-01-E, page 4 | + | |
| 2. | PORTABLE ONLY FOR OFFICES NRCC-LTI-01-E, page 3 | + | ∅ | | | |
| 3. | Minus Lighting Control Credits NRCC-LTI-02-E, page 2 | - | ∅ | Minus Lighting Control Credits NRCC-LTI-02-E, page 2 | - | |
| 4. | Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3) | = | 21,496 | Adjusted **Installed** Lighting Power (row 1 minus row 3) | = | |
| 5. | Complies ONLY if **Installed** ≤ **Allowed** | | | Complies ONLY if **Installed** ≤ **Allowed** | | |
| 6. | **Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1 | | 46,436 | **Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1 | | |

**D. Declaration of Required Installation Certificates**

Declare by selecting yes for all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

| YES | NO | Form/Title | |
|---|---|---|---|
| X | | NRCI-LTI-01-E - Must be submitted for all buildings | ☐ Field Inspector |
| | X | NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. | ☐ Field Inspector |
| | X | NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance. | ☐ Field Inspector |
| | X | NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance. | ☐ Field Inspector |
| | X | NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. | ☐ Field Inspector |
| | X | NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance. | ☐ Field Inspector |

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA
## INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-01-E |
| Indoor Lighting | (Page 3 of 6) |
| Project Name: VICTORY OUTREACH CHURCH | Date Prepared: 5-26-16 |

**E. Declaration of Required Certificates of Acceptance**

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

| YES | NO | Form/Title | |
|---|---|---|---|
| X | | NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. | ☐ Field Inspector |
| X | | NRCA-LTI-03-A - Must be submitted for automatic daylight controls. | ☐ Field Inspector |
| X | | NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. | ☐ Field Inspector |

*A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:*
☐ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

**F. Indoor Lighting Schedule and Field Inspection Energy Checklist**

- ☐ The actual indoor lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ Also include track lighting in schedule, and submit the track lighting compliance form (NRCC-LTI-05-E) when line-voltage track lighting is installed.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA
## INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-01-E |
| Indoor Lighting | (Page 4 of 6) |
| Project Name: VICTORY OUTREACH CHURCH | Date Prepared: 5-26-16 |

**G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)**

- ☐ This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance form.
- ☐ This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- ☐ Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

| Office Portable Luminaire Schedule | Office Installed Portable Luminaire Watts Per Square Foot | | | | | | | Office Location | Field Inspector | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect) | Watts per Luminaire | Number of Luminaires | Installed portable luminaire watts in this office (G02 x G03) | Square feet of this office | Watts per square foot (G04 / G05) | If F ≤ 0.3, enter zero; if G06 > 0.3, (G06-0.3) | G05 x G07 | Identify Office area in which these portable luminaires are installed | Pass | Fail |
| | | | | | | | | | ☐ | ☐ |
| | | | | | | | | | ☐ | ☐ |
| | | | | | | | | | ☐ | ☐ |
| | | | | | | | | | ☐ | ☐ |
| | | | | | | | | | ☐ | ☐ |
| Total installed portable luminaire watts that are greater than 0.3 watts per square foot per office: | | | | | | | | Enter sum total of all pages into NRCC-LTI-01-E; Page 1 | | |

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA
## INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-01-E |
| Indoor Lighting | (Page 5 of 6) |
| Project Name: VICTORY OUTREACH CHURCH | Date Prepared: 5-26-16 |

*A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:*
☒ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

**H. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST**

| Luminaire Schedule | | Installed Watts | | | | | Location | Field Inspector [1] | |
|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | | E | F | G | H | |
| Name or Item Tag | Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast) | Watts per Luminaire | How wattage was determined: CEC Default from NA8 | According to §130.0(c) | Number Luminaires | Total Installed Watts in this area (H03 x H05) | Primary Function area in which these luminaires are installed | Pass | Fail |
| A/AE | RECESSED LED-DIMMABLE DRIVER | 38 | ☐ | ☒ | 79 | 3002 | | ☐ | ☐ |
| B | RECESSED LED-DIMMABLE DRIVER | 125 | ☐ | ☒ | 136 | 17000 | | ☐ | ☐ |
| C | RECESSED LED-DIMMABLE DRIVER | 26 | ☐ | ☒ | 30 | 780 | | ☐ | ☐ |
| D | RECESSED LED-DIMMABLE DRIVER | 42 | ☐ | ☒ | 8 | 336 | | ☐ | ☐ |
| T | RECESSED LED-DIMMABLE DRIVER | 18 | ☐ | ☒ | 21 | 378 | | ☐ | ☐ |
| | | | ☐ | ☐ | | | | ☐ | ☐ |
| | | | ☐ | ☐ | | | | ☐ | ☐ |
| | | | ☐ | ☐ | | | | ☐ | ☐ |
| | | | ☐ | ☐ | | | | ☐ | ☐ |
| | | INSTALLED WATTS PAGE TOTAL: | | | | 21,496 | Enter sum total of all pages into NRCC-LTI-01-E; Page 2 | 21,496 | |

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA
## INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 08/15) CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-01-E |
| Indoor Lighting | (Page 6 of 6) |
| Project Name: VICTORY OUTREACH CHURCH | Date Prepared: 5-26-16 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

1. I certify that this Certificate of Compliance documentation is accurate and complete.

| | |
|---|---|
| Documentation Author Name: ADEL POURSHARIF | Documentation Author Signature: |
| Company: PEI | Signature Date: |
| Address: 914 E KATELLA AVE | CEA Certification Identification (if applicable): |
| City/State/Zip: ANAHEIM/CA/92805 | Phone: (714)385-1835 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: ADEL POURSHARIF | Responsible Designer Signature: |
| Company : PEI | Date Signed: |
| Address: 914 E KATELLA AVE | License: E21459 |
| City/State/Zip: ANAHEIM/CA/92805 | Phone: (714)385-1835 |

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance August 2015

STATE OF CALIFORNIA
## INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-02-E |
| Indoor Lighting - Lighting Controls | (Page 1 of 3) |
| Project Name: VICTORY OUTREACH CHURCH | Date Prepared: 5-26-16 |

The NRCC-LTI-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

**A. Mandatory Lighting Control Declaration Statements** (Indicate if the measure applies by checking yes or no below.)

| YES | NO | Control Requirements |
|---|---|---|
| X | | Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9. |
| X | | Lighting shall be controlled by a lighting control a system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b). |
| X | | One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b). |
| | X | A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b). |
| X | | All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1. |
| X | | All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a). |
| X | | General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4. |
| X | | The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b). |
| X | | All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c). |
| X | | Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans. |
| X | | Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e). |
| X | | Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls. |

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

STATE OF CALIFORNIA
## INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-02-E |
| Indoor Lighting - Lighting Controls | (Page 2 of 3) |
| Project Name: VICTORY OUTREACH CHURCH | Date Prepared: 5-26-16 |

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☐ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

**B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist**

| Lighting Control Schedule | | | Standards Complying With [1] (✓ all that apply, or enter 'E' if Exempted) | | | | | | | PAF Credit Calculation [2] | | | ✓ if Acceptance Test Required | Field Inspector | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | |
| Location in Building | Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc…) | # of Units | §130.1(a) | §130.0(b) | §130.1(c) | §130.1(d) | §130.1(e) | §140.6(a)2 | §140.6(d) | Watts of Controlled Lighting | PAF | Control Credit (K x L) | | Pass | Fail |
| MEN, WOMEN AREAS | AUTO SHUT-OFF | | X | X | X | X | X | X | X | | | | | ☐ | ☐ |
| DINING AREA | DIMMER SW./OCCUP. | | X | X | X | X | X | X | X | | | | | ☐ | ☐ |
| | | | | | | | | | | | | | | ☐ | ☐ |
| | | | | | | | | | | | | | | ☐ | ☐ |
| | | | | | | | | | | | | | | ☐ | ☐ |
| | | | | | | | | | | | | | | ☐ | ☐ |
| | | | | | | | | | | | | | | ☐ | ☐ |
| Control Credit PAGE TOTAL (Sum of Column M): | | | | | | | | | | | | | | | |
| IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column M): | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Enter Control Credit total into NRCC-LTI-01-E; Page 1. | | | |

*1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.*
*2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.*

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

STATE OF CALIFORNIA
## INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-02-E |
| Indoor Lighting - Lighting Controls | (Page 3 of 3) |
| Project Name: VICTORY OUTREACH CHURCH | Date Prepared: 5-26-16 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

1. I certify that this Certificate of Compliance documentation is accurate and complete.

| | |
|---|---|
| Documentation Author Name: ADEL POURSHARIF | Documentation Author Signature: |
| Company: PEI | Signature Date: 2-2-16 |
| Address: 914 E KATELLA AVE | CEA Certification Identification (if applicable): |
| City/State/Zip: ANAHEIM, CA 92805 | Phone: (714)385-1835 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: ADEL POURSHARIF | Responsible Designer Signature: |
| Company : PEI | Date Signed: 2-2-16 |
| Address: 914 E KATELLA AVE | License: E21459 |
| City/State/Zip: ANAHEIM, CA 92805 | Phone: (714)385-1835 |

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

STATE OF CALIFORNIA
## INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-03-E |
| Certificate of Compliance - Indoor Lighting Power Allowance | (Page 1 of 4) |
| Project Name: VICTORY OUTREACH CHURCH | Date Prepared: 5-26-16 |

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☒ CONDITIONED spaces ☐ UNCONDITIONED spaces

**A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES**

- ☐ If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
- ☐ If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

| | (a) | (b) |
|---|---|---|
| 1. Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page) | | |
| 2. Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page) | | 46,436 |
| 3. Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E | | ∅ |
| **TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1** | | 46,436 |

☐ Check here if building contains both conditioned and unconditioned areas.

**B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE**

| 1 | 2 | | 3 | | 4 |
|---|---|---|---|---|---|
| TYPE OF BUILDING (From §140.6 Table 140.6-B) | WATTS PER ($ft^2$) | X | COMPLETE BLDG. AREA | = | ALLOWED WATTS |
| | | | | | |
| Total Area: | | | | | |
| Total Watts. Enter Total Watts into section A, row 1 (Above on this page) | | | | | |

| C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES (D plus E) | Watts |
|---|---|
| Total from section C-2 . | 46,436 |
| Total from section C-3 . | ∅ |
| Total Watts. Enter Total Watts into section A, row 2 (Above on this page) . | 46,436 |

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

STATE OF CALIFORNIA
## INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-03-E |
| Certificate of Compliance - Indoor Lighting Power Allowance | (Page 2 of 4) |
| Project Name: VICTORY OUTREACH CHURCH | Date Prepared: 5-26-16 |

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☒ CONDITIONED spaces ☐ UNCONDITIONED spaces

**C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE**

- ☐ Do not include portable lighting for offices. Portable lighting for offices shall be documented only in section B of NRCC-LTI-01-E.
- ☒ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

| A | | B | | C | | D |
|---|---|---|---|---|---|---|
| AREA CATEGORY (From §140.6 Table 140.6-C) | | WATTS | | | | ALLOWED |
| Location in Building | Primary Function Area per Table 140.6-C | PER ($ft^2$) | X | AREA ($ft^2$) | = | WATTS |
| OFFICES | OFFIVE AREA ≤ 250 SQ.FT. | 1.0 | | 3587 | | 3587 |
| STORAGE | STORAGE AREA | 0.6 | | 2280 | | 1368 |
| LOBBY | LOBBY AREA | 1.5+0.3 | | 3352 | | 6034 |
| OFFICES/CHELDEREN ROOMS | WAITING AREA | 1.1 | | 4137 | | 4551 |
| CONGREGATION AREA | RELIGIOUS WORSHIP AREA | 1.5+0.5 | | 14900 | | 22350 |
| GREEN ROOM/ MULTI-PURPOSE ROOM | MULTI-PURPOSE AREA | 1.4 | | 5406 | | 7568 |
| REST ROOMS | REST ROOM/ CORRIDORS | 0.6 | | 1630 | | 978 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | TOTALS | 35,292 | | |
| Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance form) | | | | | | 46,436 |
| | | | | | | WATTS |

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

STATE OF CALIFORNIA
## INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

| | |
|---|---|
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-03-E |
| Certificate of Compliance - Indoor Lighting Power Allowance | (Page 3 of 4) |
| Project Name: VICTORY OUTREACH CHURCH | Date Prepared: 5-26-16 |

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**C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)**

| A | B | C [2] | D | E | F | G |
|---|---|---|---|---|---|---|
| Primary Function | Sq Ft or linear ft [1] | Additional Watts Allowed | Wattage Allowance (B x C) | Description(s) and Quantity of Special Luminaire Types in each Primary Function Area | Total Design Watts [3] | ALLOWED WATTS Smaller of D or F |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| TOTALS – Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES – Section C-1 . | | | | | | |

1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.
2. Additional watts are available only when allowed according to the footnotes on bottom of Table 146-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing Studio lighting..
3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

STATE OF CALIFORNIA
## INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 05/15) CALIFORNIA ENERGY COMMISSION

| | |
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| CERTIFICATE OF COMPLIANCE | NRCC-LTI-03-E |
| Certificate of Compliance - Indoor Lighting Power Allowance | (Page 4 of 4) |
| Project Name: VICTORY OUTREACH CHURCH | Date Prepared: 5-26-16 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

1. I certify that this Certificate of Compliance documentation is accurate and complete.

| | |
|---|---|
| Documentation Author Name: ADEL POURSHARIF | Documentation Author Signature: |
| Company: PEI | Signature Date: 2-2-16 |
| Address: 914 E KATELLA AVE | CEA Certification Identification (if applicable): |
| City/State/Zip: ANAHEIM, CA 92805 | Phone: (714)385-1835 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: ADEL POURSHARIF | Responsible Designer Signature: |
| Company : PEI | Date Signed: 2-2-16 |
| Address: 914 E KATELLA AVE | License: E21459 |
| City/State/Zip: ANAHEIM, CA 92805 | Phone: (714)385-1835 ANAHEIM, CA 92805 |

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015


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VICTORY OUTREACH CHURCH of OXNARD
2311 STATHAM BLVD., OXNARD, CA

PROJECT
VICTORY OUTREACH CHURCH
2311 STATHAM
OXNARD, CALIF

NOT FOR CONSTRUCTION
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STAMP

REGISTERED PROFESSIONAL ENGINEER
ADEL POURSHARIF
E21459
Exp. 03/31/18
ELECTRICAL
STATE OF CALIFORNIA

REVISIONS
ISSUED: 5/26/2016 "CLIENT REVIEW SET"
ISSUED: 6/7/2016 "CITY SUBMITTAL /BID SET"
C ISSUED: 10/27/2016 "CITY RESUBMITTAL"
D ISSUED: 02/23/2017 "CITY RESUBMITTAL"
E ISSUED: 05/26/2017 "PLN.CHK.CORR."
BID SET 10/31/17

Date: 5/26/2016
Scale:
Project Number: 160422
Project Manager:
Drawn By:
Sheet Title: TITLE 24

SHEET NUMBER
E500


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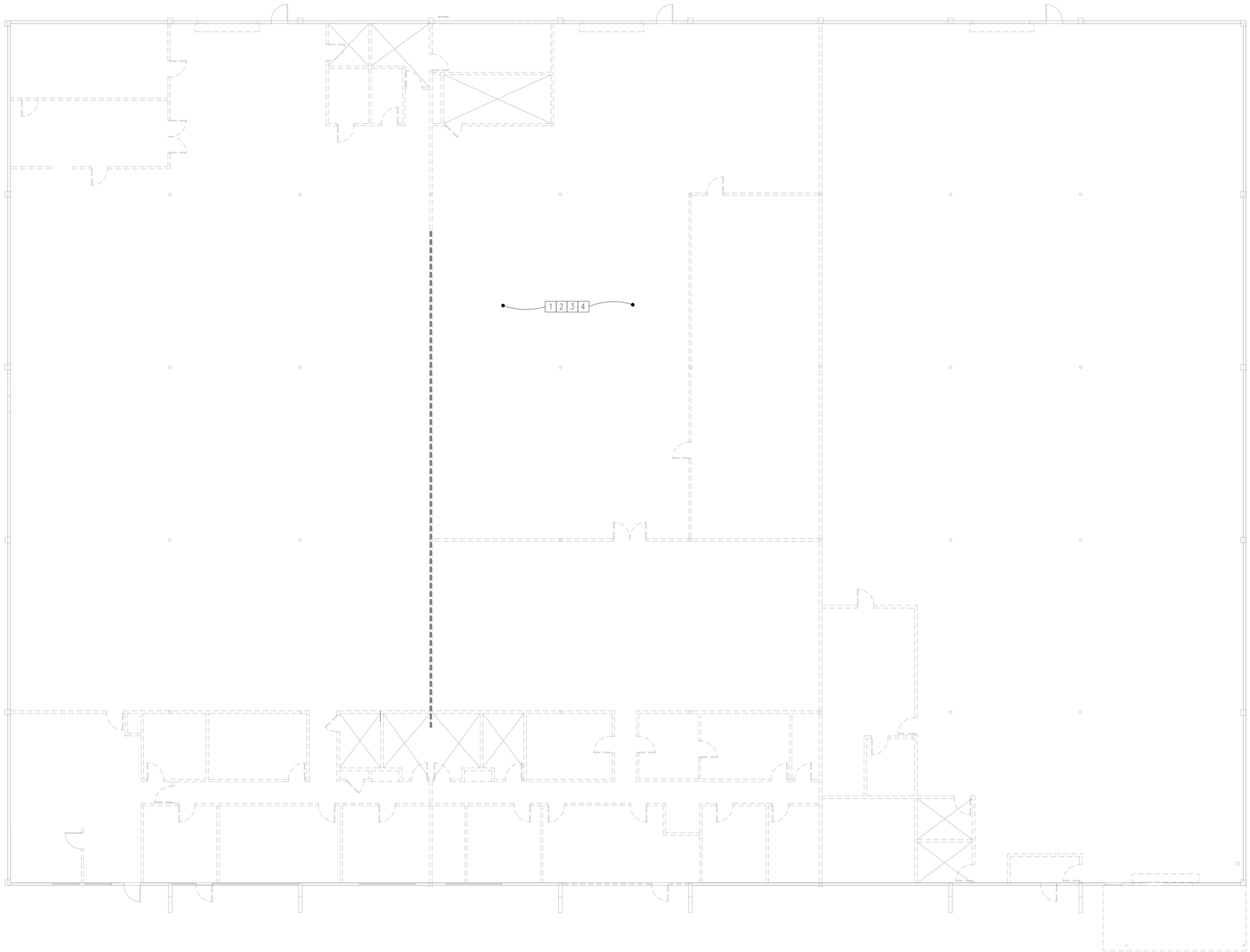


# ELECTRICAL DEMO FLOOR PLAN

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

NORTH

## KEYED NOTES

1. ALL EXISTING RECEPTACLES, VOICE/DATA OUTLETS, LIGHT SWITCHES, ETC. IN THIS AREA RESIDING ON PLANNED DEMOLITION WALLS ARE TO BE DEMOLISHED BACK TO POINT OF ORIGINATION UNLESS OTHERWISE NOTED. ALL DEVICES IN EXISTING-TO-REMAIN WALLS ARE TO REMAIN UNDISTURBED, UNLESS OTHERWISE NOTED. MAINTAIN CIRCUIT CONTINUITY TO DEVICES WHICH ARE EXISTING TO REMAIN.
2. ALL LIGHT FIXTURES, EXIT SIGNS, ETC. RESIDING IN PLANNED DEMOLITION/REPLACEMENT CEILINGS ARE TO BE DEMOLISHED BACK TO POINT OF ORIGINATION UNLESS OTHERWISE NOTED. TURN LIGHT FIXTURES OVER TO OWNER IN GOOD WORKING CONDITION FOR FUTURE REUSE. ALL LIGHT FIXTURES, EXIT SIGNS, ETC. IN EXISTING-TO-REMAIN CEILINGS ARE TO REMAIN UNDISTURBED, UNLESS OTHERWISE NOTED. MAINTAIN CIRCUIT AND SWITCHING CONTINUITY TO LIGHT FIXTURES WHICH ARE EXISTING TO REMAIN. ALL EXISTING EXTERIOR LIGHTING SHALL REMAIN UNDISTURBED.
3. ALL EXISTING POWER CONNECTIONS, DISCONNECT SWITCHES, STARTERS, ETC. THROUGHOUT THE BUILDING (INCLUDING ROOF) FOR PLANNED MECHANICAL/PLUMBING EQUIPMENT DEMOLITION TO BE DEMOLISHED BACK TO POINT OF ORIGINATION, UNLESS OTHERWISE NOTED. ALL POWER CONNECTIONS FOR EQUIPMENT IDENTIFIED AS EXISTING-TO-REMAIN ARE TO REMAIN UNDISTURBED, UNLESS OTHERWISE NOTED.
4. INTERCEPT ALL REMAINING ESSENTIAL BUILDING CIRCUITS SUCH AS POWER TO LOW-VOLTAGE EQUIPMENT (FIRE ALARM CONTROL AND SECURITY PANELS, TELEPHONE/DATA EQUIPMENT, ETC.), EXTERIOR BUILDING ATTACHED AND SITE LIGHTING, CORE POWER AND LIGHTING, AND ALL OTHER CIRCUITS SERVING LOADS WHICH ARE EXISTING-TO-REMAIN, AND EXTEND TO NEAREST REMAINING EXISTING-TO-REMAIN ELECTRICAL PANELS. COORDINATE TEMPORARY POWER AND LIGHTING NEEDS AND MAINTAIN CIRCUITS REQUIRED FOR SAME OPERATIONAL - REFEED FROM NEAREST EXISTING-TO-REMAIN ELECTRICAL PANELS.

## WALL LEGEND

(E) - INDICATES EXISTING CONSTRUCTION TO BE REMOVED (U.N.O.) UNLESS NOTED OTHERWISE

(E) - INDICATES EXISTING CONSTRUCTION TO REMAIN (VERIFY)

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STAMP

REGISTERED PROFESSIONAL ENGINEER
ALEX FOURMANOV
No. E 24459
06/30/18
ELECTRICAL
STATE OF CALIFORNIA

REVISIONS

| | |
|---|---|
| | ISSUED: 5/26/2016 "CLIENT REVIEW SET" |
| | ISSUED: 6/7/2016 "CITY SUBMITTAL /BID SET" |
| 1 C | ISSUED: 10/27/2016 "CITY RESUBMITTAL" |
| 2 D | ISSUED: 02/23/2017 "CITY RESUBMITTAL" |
| 3 E | ISSUED: 05/26/2017 "PLN.CHK.CORR." |
| | BID SET 10/31/17 |

Date: 5/26/2016
Scale:
Project Number: 160422
Project Manager:
Drawn By:

Sheet Title: ELECTRICAL DEMO FLOOR PLAN

SHEET NUMBER

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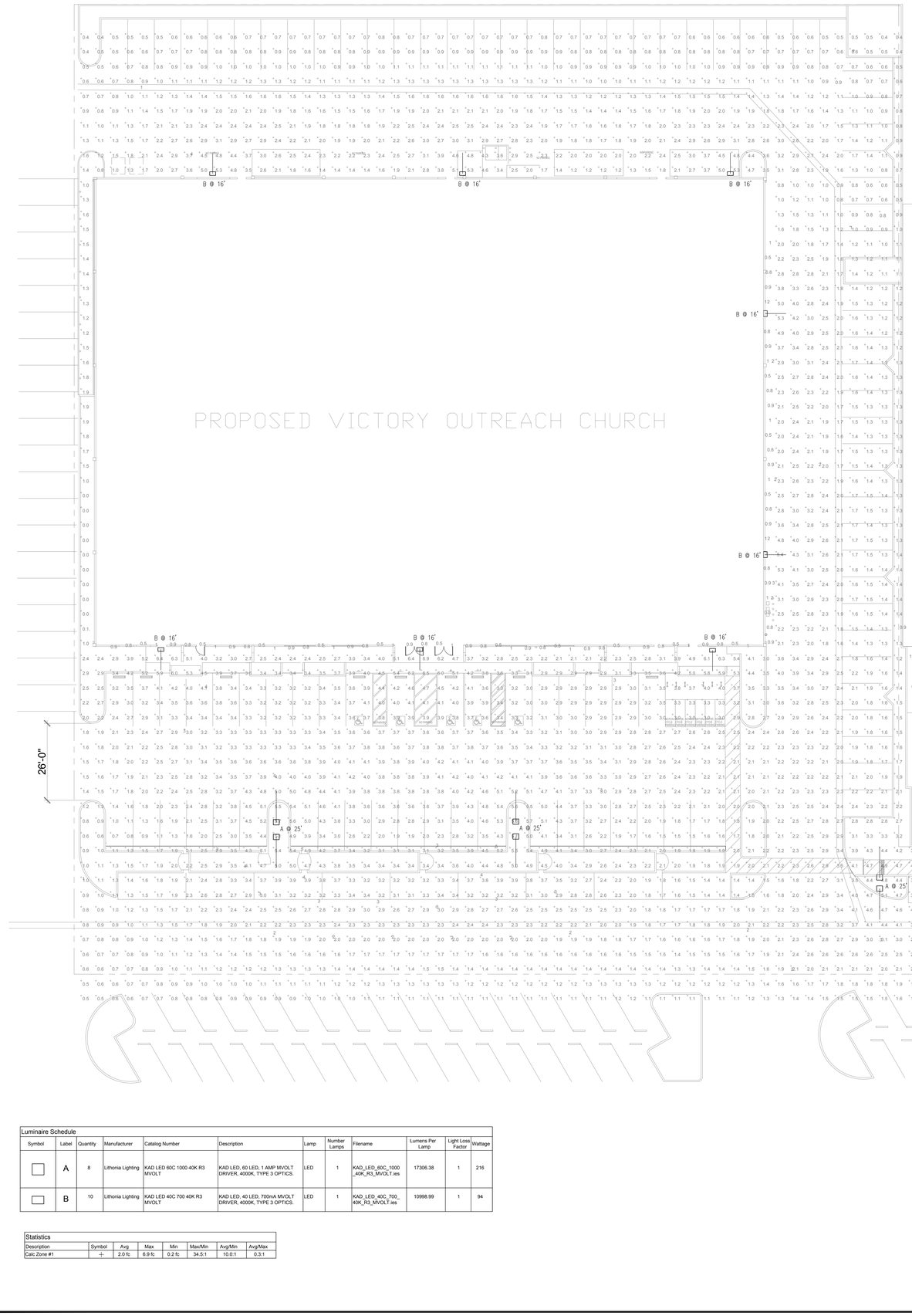

# KAD LED

## LED Area Luminaire

### Specifications

**EPA:** 2.2 SF

**Length:** 13-1/2" (44.3 cm)

**Width:** 13-1/2" (44.3 cm)

**Height:** 7-1/8" (18.1 cm)

**Weight (max):** 36 lbs (16.4 kg)

### ✓DLC Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency.
- This luminaire is A+ Certified when ordered with DTL® DLL® 347/480 1/2/3 networked drivers. When equipped luminaires meet the A+ specifications for luminaire to photocontrol interoperability.
- This luminaire is part of an A+ Certified solution for ROAM™2 or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a ROAM/XPoint logo.

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to XPoint

A+ Capable options and accessories are shown in bold blue.

### Ordering Information

**EXAMPLE:** KAD LED 40C 1000 40K R5 MVOLT SPDBK DDBXD

| KAD LED | | | | | | |
|---|---|---|---|---|---|---|
| Series | Power/Drive | Color Temperature | Distribution | Voltage | Mounting | Shipped Included |
| KAD LED | 30C 30 LEDs<br>50C 50 LEDs<br>40C 40 LEDs<br>60C 60 LEDs<br>70C 70 LEDs<br>80C 80 LEDs<br>1000 1000 mA<br>700 700 mA<br>530 530 mA | 30K 3000K<br>40K 4000K<br>50K 5000K | R2 Type II<br>R3 Type III<br>R4 Type IV<br>R5 Type V<br>R5W Type V Wide | MVOLT 277<br>347 347V<br>480 480V | SPD Square pole universal mounting adaptor*<br>RPA Round pole universal mounting adaptor*<br>SPUS Square pole<br>RPUS Round pole<br>WBA Wall box adapter<br>WWG Wood pole or mast arm | Shipped separately<br>BKTSP Square pole mounting bracket (specify finish)<br>BKTRP Round pole mounting bracket (specify finish)<br>DDBXD Dark bronze<br>DBLXD Black<br>DNAXD Natural aluminum<br>DWHXD White<br>DDBTXD Textured dark bronze<br>DBLBXD Textured black<br>DNATXD Textured natural aluminum<br>DWHGXD Textured white |

| Options | | | Finish (required) |
|---|---|---|---|
| Shipped included | | Shipped separately | |
| PIRH1FC3V Bi-level, motion/ambient sensor, 8'-15' mounting height, ambient sensor enabled at 3fc** | PIRHFC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 3fc** | PIRH1FC3V Mid-level (dimmed) | PIR1FC3V Mid-level (dimmed) |
| PER7 Five-pin receptacle only (no controls)* | PER Five-pin receptacle only (no controls)* | PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 3fc** | PIR Bi-level, motion/ambient sensor, 8'-15' mounting height, ambient sensor enabled at 3fc** |
| DS Dual switching | BL30 Bi-level switched dimming, 30% ** | PIRHTC Tri-height, dim-hi-dim-hi, 15-30' | PIRTC Tri-height, dim-hi-dim-hi, 8'-15' |
| PE Photocell, button type | BL50 Bi-level switched dimming, 50% ** | EC Emergency battery backup | |

**Finish (required)**

| | | | |
|---|---|---|---|
| DDBXD | Dark bronze | DBTXD | Textured dark bronze |
| DBLXD | Black | DBLBXD | Textured black |
| DNAXD | Natural aluminum | DNATXD | Textured natural aluminum |
| DWHXD | White | DWHGXD | Textured white |



### Drilling

Templates #5 Top of Pole

**Tenon Mounting Slipfitter**** 

| Tenon O.D. | 3 at 0° | 3 at 90° | 4 at 90° | 4 at 120° | 5 at 90° | 5 at 120° |
|---|---|---|---|---|---|---|
| 2 3/8" | 12A, 4B | 12A, 4B | 12A, 4B | 12A, 4B | 12A, 5B | 12A, 4B |
| 3" | 12D, 10E | 12J, 2M | 12J, 2N | 12J, 5A | 12J, 5M | 12J, 4M |
| 4" | 12G, 10E | 12J, 2M | 12J, 2N | 12J, 5A | 12J, 5M | 12J, 4M |

** For round pole mounting (RPUS only): 1 Require 3" or 4" tenon.

### Performance Data

**Lumen Output**

Ratings shown for cool white (4000K) are per ANSI C78.377A. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact Acuity Brands Technical Support for other configurations not shown here.

| Optic | Light Source Count | Drive Current (mA) | System Watts | 30K 3000K CCT, 70 CRI | | | | 40K 4000K CCT, 70 CRI | | | | 50K 5000K CCT, 70 CRI | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lumens | B | U | G | Lumens | B | U | G | Lumens | B | U | G |
| R2 | 120 mA | 350 | 30 | 4,148 | 2 | 0 | 1 | 4,444 | 2 | 0 | 1 | 4,341 | 2 | 0 | 1 |
| | | | 40 | 5,530 | 2 | 0 | 1 | 5,925 | 2 | 0 | 1 | 5,787 | 2 | 0 | 1 |
| | | | 50 | 6,912 | 2 | 0 | 1 | 7,406 | 2 | 0 | 1 | 7,234 | 2 | 0 | 1 |
| | 160 mA | 450 | 40 | 7,104 | 2 | 0 | 1 | 7,611 | 2 | 0 | 1 | 7,433 | 2 | 0 | 1 |
| | | | 50 | 8,880 | 2 | 0 | 1 | 9,514 | 2 | 0 | 1 | 9,291 | 2 | 0 | 1 |
| | | | 60 | 10,656 | 2 | 0 | 1 | 11,416 | 2 | 0 | 1 | 11,149 | 2 | 0 | 1 |
| | 200 mA | 530 | 50 | 10,448 | 2 | 0 | 1 | 11,195 | 2 | 0 | 1 | 10,933 | 2 | 0 | 1 |
| | | | 60 | 12,538 | 2 | 0 | 1 | 13,434 | 2 | 0 | 1 | 13,120 | 2 | 0 | 1 |
| | | | 70 | 14,627 | 2 | 0 | 1 | 15,673 | 2 | 0 | 1 | 15,306 | 2 | 0 | 1 |
| R3 | 120 mA | 350 | 30 | 4,148 | 2 | 0 | 1 | 4,444 | 2 | 0 | 1 | 4,341 | 2 | 0 | 1 |
| | | | 40 | 5,530 | 2 | 0 | 1 | 5,925 | 2 | 0 | 1 | 5,787 | 2 | 0 | 1 |
| | | | 50 | 6,912 | 2 | 0 | 1 | 7,406 | 2 | 0 | 1 | 7,234 | 2 | 0 | 1 |
| | 160 mA | 450 | 40 | 7,104 | 2 | 0 | 1 | 7,611 | 2 | 0 | 1 | 7,433 | 2 | 0 | 1 |
| | | | 50 | 8,880 | 2 | 0 | 1 | 9,514 | 2 | 0 | 1 | 9,291 | 2 | 0 | 1 |
| | | | 60 | 10,656 | 2 | 0 | 1 | 11,416 | 2 | 0 | 1 | 11,149 | 2 | 0 | 1 |
| | 200 mA | 530 | 50 | 10,448 | 2 | 0 | 1 | 11,195 | 2 | 0 | 1 | 10,933 | 2 | 0 | 1 |
| | | | 60 | 12,538 | 2 | 0 | 1 | 13,434 | 2 | 0 | 1 | 13,120 | 2 | 0 | 1 |
| | | | 70 | 14,627 | 2 | 0 | 1 | 15,673 | 2 | 0 | 1 | 15,306 | 2 | 0 | 1 |
| R4 | 120 mA | 350 | 30 | 4,148 | 2 | 0 | 1 | 4,444 | 2 | 0 | 1 | 4,341 | 2 | 0 | 1 |
| | | | 40 | 5,530 | 2 | 0 | 1 | 5,925 | 2 | 0 | 1 | 5,787 | 2 | 0 | 1 |
| | | | 50 | 6,912 | 2 | 0 | 1 | 7,406 | 2 | 0 | 1 | 7,234 | 2 | 0 | 1 |
| | 160 mA | 450 | 40 | 7,104 | 2 | 0 | 1 | 7,611 | 2 | 0 | 1 | 7,433 | 2 | 0 | 1 |
| | | | 50 | 8,880 | 2 | 0 | 1 | 9,514 | 2 | 0 | 1 | 9,291 | 2 | 0 | 1 |
| | | | 60 | 10,656 | 2 | 0 | 1 | 11,416 | 2 | 0 | 1 | 11,149 | 2 | 0 | 1 |
| | 200 mA | 530 | 50 | 10,448 | 2 | 0 | 1 | 11,195 | 2 | 0 | 1 | 10,933 | 2 | 0 | 1 |
| | | | 60 | 12,538 | 2 | 0 | 1 | 13,434 | 2 | 0 | 1 | 13,120 | 2 | 0 | 1 |
| | | | 70 | 14,627 | 2 | 0 | 1 | 15,673 | 2 | 0 | 1 | 15,306 | 2 | 0 | 1 |
| R5 | 120 mA | 350 | 30 | 4,148 | 2 | 0 | 1 | 4,444 | 2 | 0 | 1 | 4,341 | 2 | 0 | 1 |
| | | | 40 | 5,530 | 2 | 0 | 1 | 5,925 | 2 | 0 | 1 | 5,787 | 2 | 0 | 1 |
| | | | 50 | 6,912 | 2 | 0 | 1 | 7,406 | 2 | 0 | 1 | 7,234 | 2 | 0 | 1 |
| | 160 mA | 450 | 40 | 7,104 | 2 | 0 | 1 | 7,611 | 2 | 0 | 1 | 7,433 | 2 | 0 | 1 |
| | | | 50 | 8,880 | 2 | 0 | 1 | 9,514 | 2 | 0 | 1 | 9,291 | 2 | 0 | 1 |
| | | | 60 | 10,656 | 2 | 0 | 1 | 11,416 | 2 | 0 | 1 | 11,149 | 2 | 0 | 1 |
| | 200 mA | 530 | 50 | 10,448 | 2 | 0 | 1 | 11,195 | 2 | 0 | 1 | 10,933 | 2 | 0 | 1 |
| | | | 60 | 12,538 | 2 | 0 | 1 | 13,434 | 2 | 0 | 1 | 13,120 | 2 | 0 | 1 |
| | | | 70 | 14,627 | 2 | 0 | 1 | 15,673 | 2 | 0 | 1 | 15,306 | 2 | 0 | 1 |
| R5W | 120 mA | 350 | 30 | 4,148 | 2 | 0 | 1 | 4,444 | 2 | 0 | 1 | 4,341 | 2 | 0 | 1 |
| | | | 40 | 5,530 | 2 | 0 | 1 | 5,925 | 2 | 0 | 1 | 5,787 | 2 | 0 | 1 |
| | | | 50 | 6,912 | 2 | 0 | 1 | 7,406 | 2 | 0 | 1 | 7,234 | 2 | 0 | 1 |
| | 160 mA | 450 | 40 | 7,104 | 2 | 0 | 1 | 7,611 | 2 | 0 | 1 | 7,433 | 2 | 0 | 1 |
| | | | 50 | 8,880 | 2 | 0 | 1 | 9,514 | 2 | 0 | 1 | 9,291 | 2 | 0 | 1 |
| | | | 60 | 10,656 | 2 | 0 | 1 | 11,416 | 2 | 0 | 1 | 11,149 | 2 | 0 | 1 |
| | 200 mA | 530 | 50 | 10,448 | 2 | 0 | 1 | 11,195 | 2 | 0 | 1 | 10,933 | 2 | 0 | 1 |
| | | | 60 | 12,538 | 2 | 0 | 1 | 13,434 | 2 | 0 | 1 | 13,120 | 2 | 0 | 1 |
| | | | 70 | 14,627 | 2 | 0 | 1 | 15,673 | 2 | 0 | 1 | 15,306 | 2 | 0 | 1 |





Catalog Number
Notes
Type

**Anchor Base Poles**

# SSS

**SQUARE STRAIGHT STEEL**

### FEATURES & SPECIFICATIONS

**INTENDED USE** — Square Straight Steel is a general purpose light pole for up to 25 foot mounting heights, depending on fixture EPA and wind speed. Ideal for parking lots, parking garages and floodlights.

**CONSTRUCTION — One Shaft** Pre-gun shaft is of uniform dimension and wall thickness and is made of a weldable grade, hot rolled, commercial quality steel tubing with a minimum yield of 55,000 PSI (grade A572 or A595). Shaft is 11 gauge (.120") thick. Shaft is fully welded with a full penetration, single bevel, electric resistance weld. Sidewalls square to base surface with flat sides, small corner radii and weldment lockseal qualities. Available shaft widths are 6", 7" and 8".

**Pole Top** Pole top cap is provided for all poles that will receive slotting patterns for side-mount luminaire arm mounting. Pole top cap is secured with a tamper resistant screw.

**Handhole** A reinforced handhole with grounding provisions is provided at 18" from the base. Positioning the handhole lower may not be possible and requires engineering review. Consult Tech Support/Sales for further information. Every handhole includes a cover and one attachment hardware. The handhole has a weatherproof gasket to IP65 rating.

**Base Cover** A durable ABS plastic base cover is provided to cover the handhole area, is painted with each pole correctly. Additional base cover options are available upon request.

**Anchor Base Bolts** Anchor base is fabricated from steel that meets ASTM A36 standards and can be altered to match existing foundations; consult factory for modifications. Anchor bolts are manufactured to meet or exceed ASTM A307 standards. Bolts are hot dip galvanized to a minimum bolt strength of 75 KSI. Top threaded portion (nominal 12") is hot-dipped galvanized per ASTM A153.

**HARDWARE** All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are corrosion-resistant stainless steel, unless noted.

**FINISH** Standard powder coat finishes include Dark Bronze, Black, Medium Bronze and Natural Aluminum colors. Classic Finishes include Sandstone, Charcoal Gray, Tension Green, Bright Red and Steel Blue colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to, Hot-dipped Galvanized, Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes available. Consult factory for complete selection of available colors and finishes.

**WARRANTY** 5 year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.asp

**NOTE** Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

4. Insert "1" or "2" to designate fixture slots (e.g. SRP1W1S).
5. Specify location, size and orientation when ordering options.
6. Specify finish. Consult factory for complete selection of colors or for non-standard surface treatment finish and texture color.*
7. Specify "L" or "R" for left or right.
8. Pre-gun shaft is provided with weldment lockseal qualities.
9. Two slotting templates are shown to be used for a particular luminaire shipped to accommodate different mounting heights. Download these templates from the Drilling Patterns for Tenons Tool at http://www.acuitybrands.com/Tools/Specification_Tools/Drilling_Patterns_for_Tenons_Tool.aspx or http://lithonia.acuitybrands.com/Tools/Specification_Tools/Drilling_Patterns_for_Tenons_Tool.aspx
10. Round pole with optional wide number of matching pole(s).
11. See online drill certification at request.
12. Provides reference of pole orientation.
13. Consult factory for other available options. Visit http://lithonia.acuitybrands.com/Tools/Specification_Tools/Drilling_Patterns_for_Tenons_Tool.aspx for the most current Tenon Drilling Patterns Tool. TRUE, Available for limited quantities only, consult factory for details.

**Example:** SSS 20 SC DM19 DDB

| Series | Shaft Butt Dia. | Wall Thickness | Anchor Base | Mounting |
|---|---|---|---|---|
| SSS | 6 6" (152 mm)<br>7 7" (178 mm)<br>8 8" (203 mm) | 20 11 gauge (.120")<br>25 7 gauge (.179") | SC Square<br>RC Round | DM19 Square pole universal mounting adaptor<br>DM28 Square pole universal mounting adaptor<br>DM29 Square pole universal mounting adaptor<br>DM19C Square pole universal mounting adaptor<br>DM28C Square pole universal mounting adaptor<br>DM29C Square pole universal mounting adaptor<br>DM19S Square pole universal mounting adaptor<br>DM28S Square pole universal mounting adaptor<br>DM29S Square pole universal mounting adaptor<br>DM19AS Square pole universal mounting adaptor<br>DM28AS Square pole universal mounting adaptor<br>DM29AS Square pole universal mounting adaptor<br>AD Round pole universal mounting adaptor<br>K Mounting hardware for tenon mounting |

| Options | |
|---|---|
| LCB Less anchor bolts | |
| TB Tamper-resistant hardware | |
| HS Handhole access cover (standard in Canada) | |
| TP25 Single tenon (specify 2-3/8", 3" or 4" O.D.) | |
| TP25x2 Double tenon (180° apart) (specify 2-3/8", 3" or 4" O.D.) | |
| TP25x3 Triple tenon (90° apart) (specify 2-3/8", 3" or 4" O.D.) | |
| TP25x4 Quad tenon (90° apart) (specify 2-3/8", 3" or 4" O.D.) | |
| Clamp collar | |
| SSS Sandstone | |
| CHC Charcoal gray | |
| TEG Tension green | |
| SRB Bright red | |
| SBL Steel blue | |
| Hot-dipped galvanized steel finish** | |
| GFB Grounding lug for #14 to #6 AWG copper conductor | |
| Custom Colors and Extended Warranty Finishes available. | |

| Finish |
|---|
| Standard colors |
| DDB Dark bronze |
| BLK Black |
| DNA Natural aluminum |
| WHT White |
| Classic colors |
| SSS Sandstone |
| CHC Charcoal gray |
| TEG Tension green |
| SRB Bright red |
| SBL Steel blue |
| Hot-dipped galvanized steel finish** |
| HDG Hot-dipped galvanized |
| Custom colors |
| DDBTX Textured dark bronze |
| BLKTX Textured black |
| DNATX Textured natural aluminum |
| WHTTX Textured white |

| Shaft Butt Dia. | Shaft Length | Anchor Bolt Projection A | Base Square "C" | Template Description | Anchor Bolt Set Description | Anchor Bolt Set and Template Number |
|---|---|---|---|---|---|---|
| 6" | 6' - 0" | 2' - 0" | 6" | ASTERPLATE P1006H | 4DB-6 | ABS25-4C |
| 6"SQ | 8' - 0" | 2' - 0" | 6" | ASTERPLATE P1006H | 4DB-6 | ABS25-4C |
| 7" | 10' - 12' | 3' - 0" | 11" | ASTERPLATE P1007H | 4DB-6 | N/A |
| 8" | 17' - 12' | 3' - 0" | 12 1/2" | ASTERPLATE P1008H | 4DB-6 | N/A |

### BASE DETAIL

### HANDHOLE ORIENTATION



**IMPORTANT!**
• These specifications are intended for general purposes only. Lithonia reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.



| Luminaire Schedule | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Symbol | Label | Quantity | Manufacturer | Catalog Number | Description | Lamp | Number Lamps | Filename | Lumens Per Lamp | Light Loss Factor | Wattage |
| | A | 8 | Lithonia Lighting | KAD LED 60C 1000 40K R3 MVOLT | KAD LED, 60 LED, 1 AMP MVOLT DRIVER, 4000K, TYPE 3 OPTICS. | LED | 1 | KAD_LED_60C_1000_40K_R3_MVOLT.ies | 17306.38 | 1 | 216 |
| | B | 10 | Lithonia Lighting | KAD LED 40C 700 40K R3 MVOLT | KAD LED, 40 LED, 700mA MVOLT DRIVER, 4000K, TYPE 3 OPTICS. | LED | 1 | KAD_LED_40C_700_40K_R3_MVOLT.ies | 10998.99 | 1 | 94 |

| Statistics | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Description | Symbol | Avg | Max | Min | Max/Min | Avg/Min | Avg/Max |
| Calc Zone #1 | + | 2.0 fc | 6.9 fc | 0.2 fc | 34.5:1 | 10.0:1 | 0.3:1 |

# PHOTOMETRIC PLAN

N.T.S.

PLUMPGROUP.com
ARCHITECTURE & ENGINEERING
a division of Plump Engineering, Inc.
914 E. KATELLA AVENUE
ANAHEIM, CALIFORNIA 92805
P (714) 385-1835 F(714) 385-1834
www.plumpgroup.com

VICTORY OUTREACH CHURCH
2311 STATHAM BLVD.,
OXNARD, CA

PROJECT
VICTORY OUTREACH CHURCH
2311 STATHAM
OXNARD, CALIF

NOT FOR CONSTRUCTION

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STAMP

REVISIONS

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| | ISSUED: 5/26/2016 "CLIENT REVIEW SET" |
| | ISSUED: 6/7/2016 "CITY SUBMITTAL /BID SET" |
| C | ISSUED: 10/27/2016 "CITY RESUBMITTAL" |
| D | ISSUED: 02/23/2017 "CITY RESUBMITTAL" |
| E | ISSUED: 05/26/2017 "PLN.CHK.CORR." |
| | BID SET 10/31/17 |
| 1 | MISC. REVISION 03/09/2018 |

Date: 5/26/2016
Scale:
Project Number: 160422
Project Manager:
Drawn By:

Sheet Title: PHOTOMETRIC PLAN

SHEET NUMBER

E700

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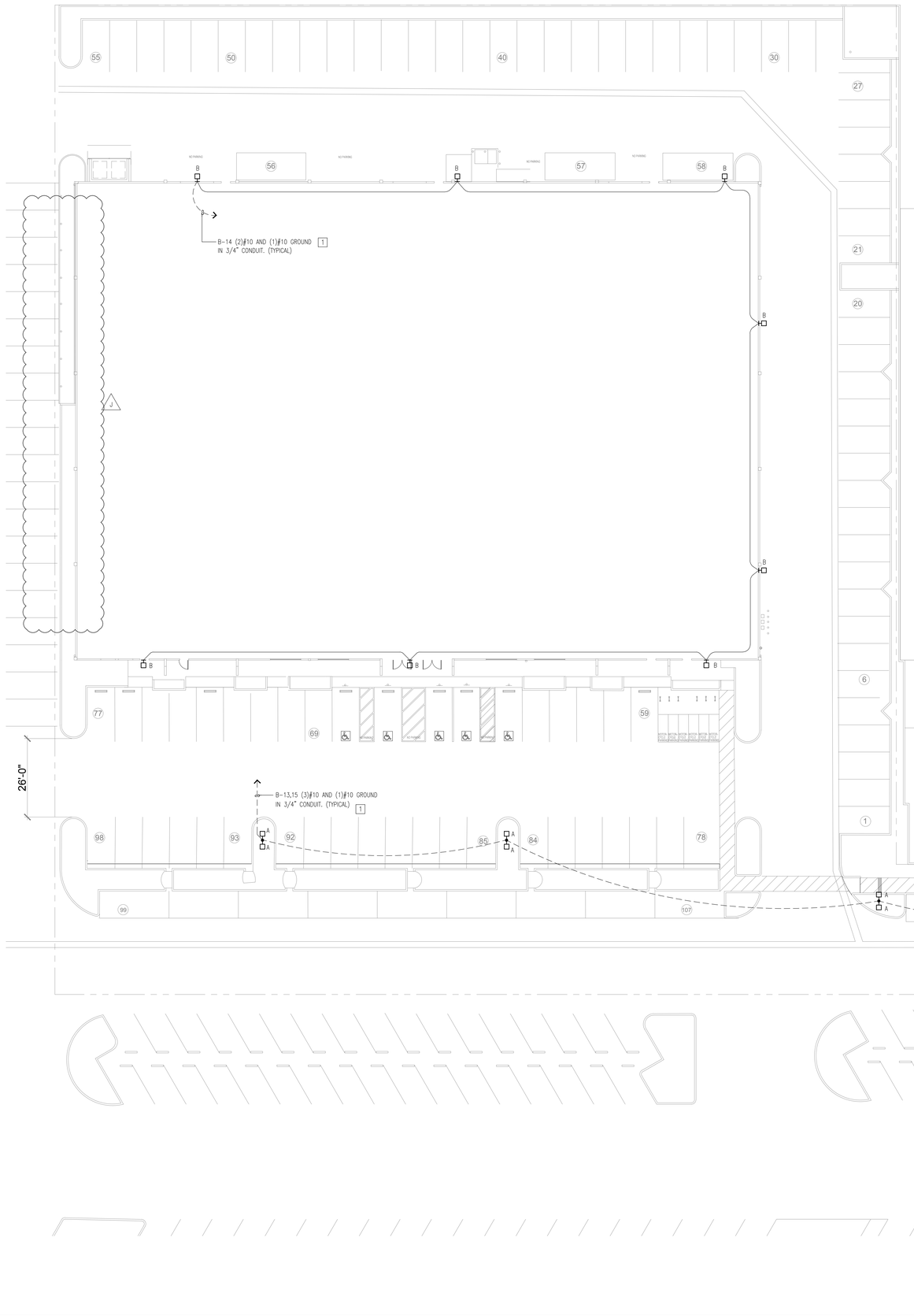
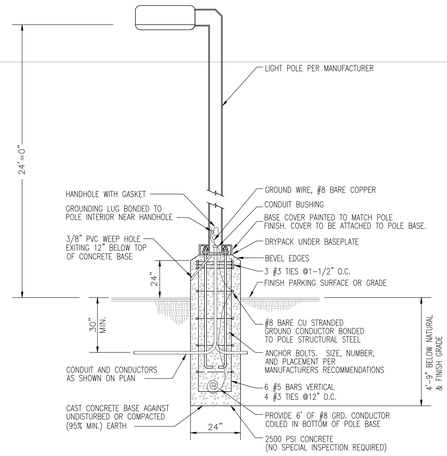



## KEY NOTES:

1 EXTEND CIRCUITS THROUGH CONTACTOR, REFER TO PHOTOCELL WIRING DIAGRAM

1. FOR UTILITY TRANSFORMER, TELEPHONE SERVICE, GAS, WATER, AND SANITARY SEWER LOCATIONS; SEE CIVIL SITE PLAN.
2. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND COMPLIANCE WITH ALL UTILITY COMPANIES REQUIREMENTS. ROUTING OF INCOMING POWER AND TELEPHONE SERVICES FOR ESTIMATING PURPOSES ONLY. ACTUAL ROUTING, CONDUIT, TRENCH AND PAD REQUIREMENTS SHALL BE AS SPECIFIED BY UTILITY COMPANIES. VERIFY REQUIREMENTS WITH UTILITIES PRIOR TO INSTALLATION.




NOTE:
DIAMETER & DEPTH OF CONCRETE BASE TO BE DETERMINED ON A REGIONAL BASES. STRUCTURAL ENGINEER SHALL SIZE REBAR AND CONCRETE BASED ON REGIONAL WEATHER AND SOILS CONDITIONS.

## POLE BASE DETAIL

N.T.S.

NOTE:
CONTRACTOR TO INSTALL NON-SHRINK MORTAR GROUT BETWEEN POLE BASE PLATE AND CONCRETE FOUNDATION AS REQUIRED AND SPECIFIED BY POLE MANUFACTURER.

## ELECTRICAL SITE PLAN

SCALE: 1/16"=1'-0"

NORTH

PLUMPGROUP.com
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REGISTERED PROFESSIONAL ENGINEER
KEVIN FOURMAN
No. E-18459
06/30/18
ELECTRICAL
STATE OF CALIFORNIA

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| BID SET 10/31/17 |
| 1 INTERNAL REVIEW 03/09/2018 |

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Project Number: 160422
Project Manager:
Drawn By:

Sheet Title: ELECTRICAL SITE PLAN

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