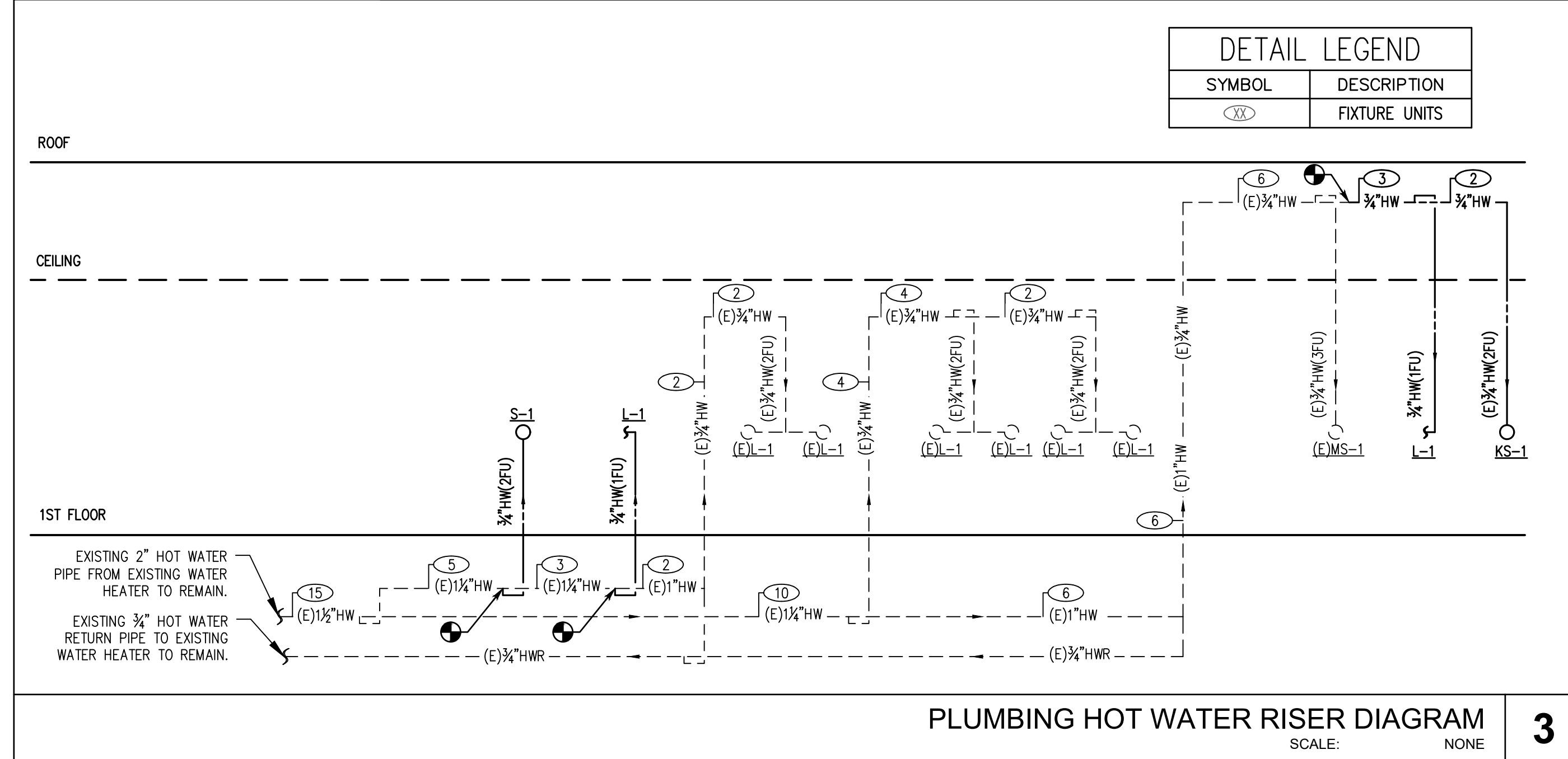


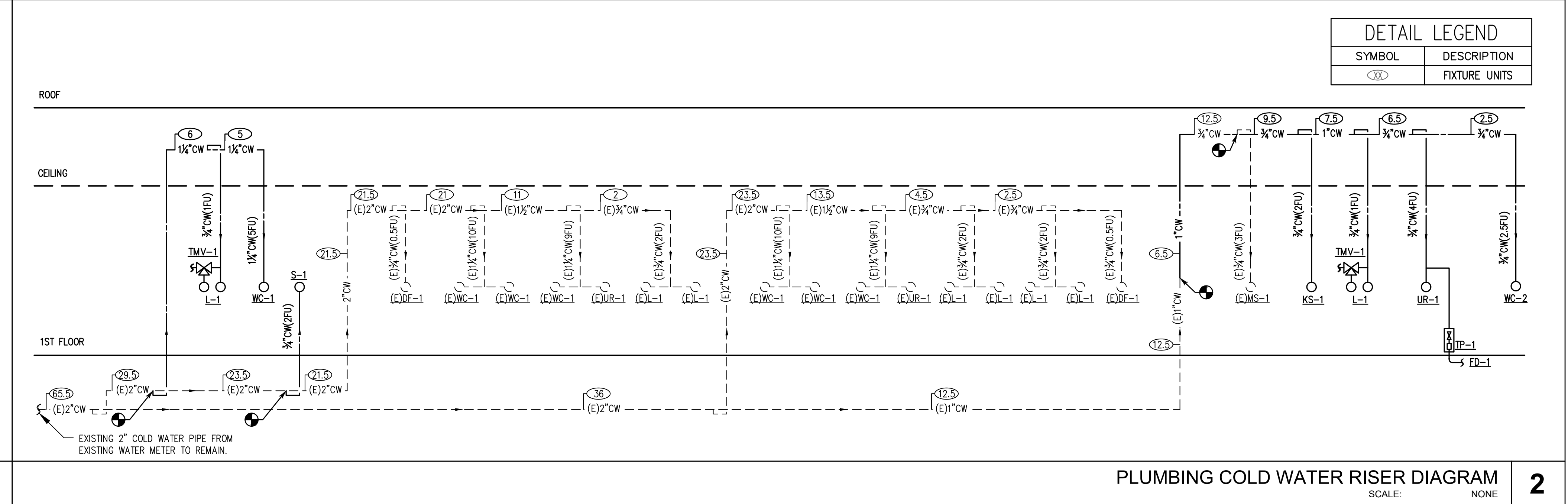
SYMBOL	DESCRIPTION
(E)1/2" G	FIXTURE UNITS

4



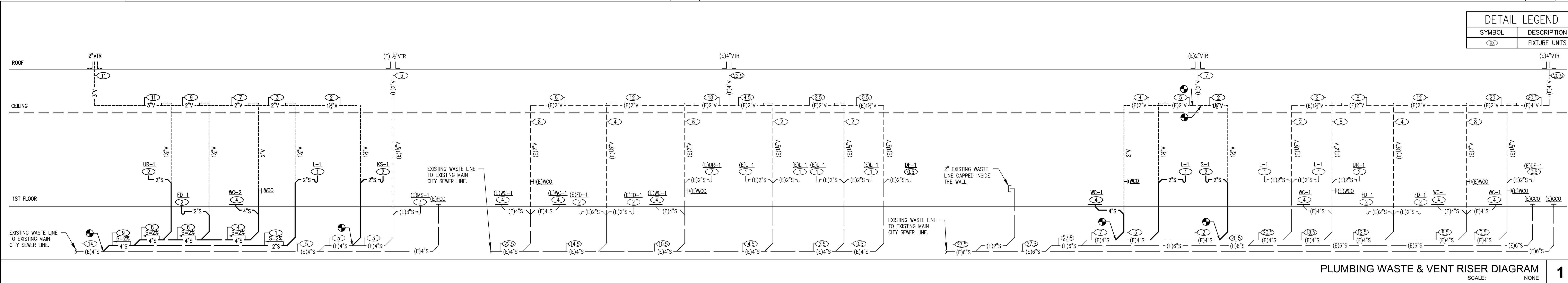
SYMBOL	DESCRIPTION
(E)1/2" HW	FIXTURE UNITS

3



SYMBOL	DESCRIPTION
(E)1/2" CW	FIXTURE UNITS

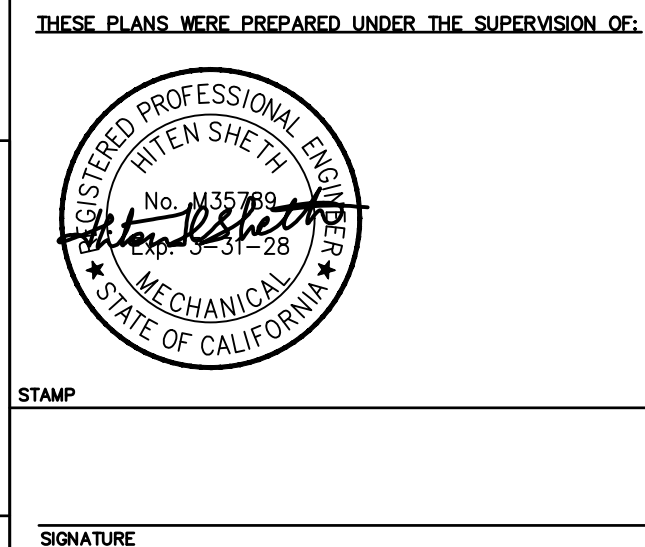
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SYMBOL	DESCRIPTION
(E)1/2" V	FIXTURE UNITS

1

P4.1



REVISIONS					
NUMBER	DESCRIPTION	DATE	DRAWN	INITIALS	DATE

CITY OF FULLERTON	
PUBLIC WORKS DEPARTMENT	
INDEPENDENCE PARK GYM RENOVATION H2S PROJECT 25098	
PLUMBING RISER DIAGRAMS	
APPROVED: 05/29/2026 DATE	ACCEPTED: DATE
SCALE: AS NOTED	SHEET 41 of 54 SHEETS
B.M.: N/A	FILE: MISC 5437

PART 1 GENERAL

- A. SCOPE-- REFER TO SHEET E01 FOR SCOPE OF WORK
B. CODES, REGULATIONS AND STANDARDS
1. THE INSTALLATION SHALL COMPLY WITH APPLICABLE LOCAL AND STATE CODES AND ORDINANCES WITH THE REGULATIONS OF THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES AND WITH THE REQUIREMENTS OF THE POWER AND TELEPHONE COMPANIES FURNISHING SERVICES TO THIS INSTALLATION.
2. THE FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS AND CODES ARE MINIMUM REQUIREMENTS:
a. NEMA-NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION STANDARDS
b. IEC-CALIFORNIA ELECTRICAL CODE
c. UL-UNDERWRITER LABORATORIES INCORPORATED STANDARDS
d. ANSI-AMERICAN NATIONAL STANDARDS INSTITUTE
e. IEEE-INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
f. NESC-NATIONAL ELECTRICAL SAFETY CODE
g. TITLE 24-CALIFORNIA ENERGY COMMISSION
C. INSPECTION OF SITE
1. PRIOR TO SUBMITTING A BID FOR ELECTRICAL WORK, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED CONSTRUCTION AND SHALL THOROUGHLY ACQUAINT HIMSELF WITH EXISTING UTILITIES AND WORKING CONDITIONS TO BE ENCOUNTERED, ETC. ALLOWANCE WILL NOT BE MADE FOR NON-COMPLIANCE WITH THIS CONDITION AFTER BIDDING.
D. GENERAL WORKMANSHIP
1. ALL WORK SHALL BE EXECUTED AND FINISHED IN A PRACTICAL MANNER AND SHALL PRESENT A NEAT AND WORKMANLIKE APPEARANCE WHEN COMPLETED.
2. ALL WORK MUST BE ACCEPTABLE TO THE OWNER, WHERE A DETAILED METHOD OF INSTALLING THE WORK IS NOT SPECIFIED OR INDICATED, INSTALL WORK AS DIRECTED BY THE OWNER.
E. RELATED WORK BY OTHERS
1. ELECTRICAL DRAWINGS IDENTIFY UTILITY SERVICE REQUIREMENTS FOR POWER, TELEPHONE, AND CABLE TV WITHIN AND UP TO FIVE FEET OUTSIDE THE BUILDING. UTILITY ELECTRICAL SERVICE TRANSFORMERS, WHERE SHOWN ON THE SITE PLAN, ARE FOR INFORMATION ONLY AND INDICATE THE PREFERRED POINT OF SERVICE. UTILITY CONDUIT SYSTEMS, PULL BOXES, AND OTHER STRUCTURES, WHERE SHOWN ON THE SITE PLAN, ARE FOR INFORMATION ONLY AND INDICATE THE PREFERRED ROUTING; THE ELECTRICAL CONTRACTOR SHALL REFER TO UTILITY SERVICE DRAWINGS FOR ACTUAL UTILITY SERVICE REQUIREMENTS FOR THIS PROJECT. UTILITY SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED UTILITY SERVICE DRAWINGS. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO CONTACT AND FOLLOW-UP WITH ALL UTILITY COMPANIES TO OBTAIN BOTH PRELIMINARY AND FINAL DESIGN DRAWINGS FOR THIS PROJECT.
a. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ELECTRICAL SERVICE ENTRANCE, MEET ALL POWER COMPANY REQUIREMENTS AND SHALL PAY ALL UTILITY COMPANY CHARGES.
b. THE LOCAL TELEPHONE COMPANY WILL FURNISH AND INSTALL ALL TELEPHONE WIRING AND EQUIPMENT AND WILL MAKE ALL FINAL TELEPHONE CONNECTIONS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE TELEPHONE SERVICE ENTRANCE, MEET ALL TELEPHONE REQUIREMENTS AND SHALL PAY ALL UTILITY COMPANY CHARGES.
c. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE CABLE SERVICE ENTRANCE, MEET ALL CABLE COMPANY REQUIREMENTS AND SHALL PAY ALL UTILITY COMPANY CHARGES.
F. COOPERATION WITH OTHER CONTRACTORS
1. COOPERATE WITH THE OTHER TRADES SO THAT THE INSTALLATION OF THE ELECTRICAL UTILITIES AND EQUIPMENT WILL BE PROPERLY COORDINATED. CONDUIT, FIXTURES, AND OTHER EQUIPMENT LOCATIONS SHALL BE CHECKED WITH THE OTHER TRADES TO AVOID CONFLICT WITH THE PIPING, DUCTWORK, STEEL, BEAMS, OR OTHER OBSTRUCTIONS.
2. CAREFULLY CHECK THE LOCATIONS OF THE OUTLET BOXES AND DETERMINE THAT THEY HAVE NOT BEEN DISTURBED DURING THE INSTALLATION OF MATERIALS OF OTHER TRADES.
3. COORDINATE THE LOCATION OF TRENCHES AND CONDUITS FOR UTILITY SERVICES AND OTHER DISPLINES WITH THE GENERAL CONTRACTOR.
G. MECHANICAL AND ELECTRICAL COORDINATION
1. ANY DEVICE WHICH CARRIES THE FULL LOAD CURRENT OF THE ELECTRICALLY DRIVEN MACHINERY, AS OPPOSED TO THE CONTROL OF INSTRUMENTATION CURRENT IN THE HOLDING CIRCUIT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. CONTROL OR INSTRUMENTATION CIRCUITS CONNECTING HOLDING COILS TO THE CONTROL SYSTEM AS SPECIFIED BY THE MECHANICAL ENGINEER ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
2. THE POWER CIRCUIT IS DEFINED AS ALL DEVICES NECESSARY TO OPERATE, AND AS REQUIRED BY CODE TO PROTECT AND SERVE THE UNIT, INCLUDING BRANCH CIRCUIT PROTECTIVE DEVICES, DISCONNECTS, MAGNETIC MOTOR STARTERS WITH RUNNING OVERLOAD AND SINGLE PHASING PROTECTION, MAGNETIC CONTACTORS, ETC.
3. THE CONTROL OR INSTRUMENTATION CIRCUIT IS DEFINED AS ALL DEVICES NECESSARY TO INTERFACE THE ELECTRICAL POWER CIRCUIT WITH THE CONTROL SYSTEM AS SPECIFIED BY THE MECHANICAL ENGINEER INCLUDING CONDUIT, BOXES, CONDUIT FITTINGS, CONDUCTORS, ELECTRIC-PNEUMATIC SWITCHES, PNEUMATIC-ELECTRIC SWITCHES, ELECTRICAL AND PNEUMATIC RELAYS, PNEUMATIC TUBING, ETC.
4. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE 120V DUPLEX RECEPTACLES WITHIN 25 FEET OF ALL ROOF MOUNTED EQUIPMENT, PER CEC 210.6.3.
H. DRAWINGS
1. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE ELECTRICAL WORK. INFORMATION PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN, THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE THE DATE OF BID OPENING. WHERE DISCREPANCIES OR CONFLICTS OCCUR, THE BID SHALL REFLECT THE MOST STRINGENT REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO FIELD MEASURE AND CONFIRM MOUNTING HEIGHTS AND LOCATION OF ELECTRICAL EQUIPMENT WITH RESPECT TO CONTROLS, ETC. DO NOT SCALE DIMENSIONS OFF THE ELECTRICAL DRAWINGS. USE ACTUAL BUILDING DIMENSIONS.
2. UPON COMPLETION OF THE WORK UNDER THESE DRAWINGS AND SPECIFICATIONS, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF MARKED-UP ELECTRICAL DRAWINGS SHOWING THE "AS-BUILT" CONDITION OF THE WORK. BOND PRINTS OF THE DRAWINGS REQUIRED WILL BE FURNISHED BY THE OWNER, FOR THIS PURPOSE.

- 3. ALL OPERATING INSTRUCTIONS, PARTS LISTS AND SPARE PARTS FOR MATERIAL AND EQUIPMENT FURNISHED AND/OR INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE TURNED OVER TO THE OWNER (THREE COPIES).
I. SHOP DRAWINGS AND APPROVALS
1. SUBMITTALS SHALL CONSIST OF DETAILED SHOP DRAWINGS, SPECIFICATIONS, BLOCK WIRING DIAGRAMS, "CATALOG CUTS" AND DATA SHEETS CONTAINING PHYSICAL AND DIMENSIONAL INFORMATION, PERFORMANCE DATA, ELECTRICAL CHARACTERISTICS, MATERIAL USED IN FABRICATION, AND MATERIAL FINISH. CLEARLY INDICATE BY ARROWS OR BRACKETS PRECISELY WHAT IS BEING SUBMITTED ON AND THOSE OPTIONAL ACCESSORIES WHICH ARE INCLUDED AND THOSE WHICH ARE EXCLUDED.
2. EACH SUBMITTAL SHALL BE ACCOMPANIED SHALL BEAR A STAMP STATING THAT THE SUBMITTAL HAS BEEN THOROUGHLY REVIEWED BY THE CONTRACTOR AND IS IN FULL COMPLIANCE WITH THE REQUIREMENTS OF CONTRACT DOCUMENTS. COVER LETTERS SHALL LIST IN FULL THE ITEMS AND DATA SUBMITTED. FAILURE TO COMPLY WITH THIS REQUIREMENTS SHALL CONSTITUTE GROUNDS FOR REJECTION OR DATA.
3. THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS OF ALL ELECTRICAL EQUIPMENT AND GENERATOR ROOMS, YARDS, AND UTILITY AREAS. MINIMUM SCALE: 1/4"=1'-0".
4. AS PART OF THE EQUIPMENT SUBMITTALS, THE MANUFACTURER SHALL PROVIDE ANCHORAGE CALCULATIONS FOR FLOOR AND WALL MOUNTED ELECTRICAL EQUIPMENT. STRUCTURAL CALCULATIONS SHALL BE PREPARED AND SIGNED BY REGISTERED STRUCTURAL ENGINEER IN CALIFORNIA.
5. ALL RE-SUBMITTALS SHALL INCLUDE A COVER LETTER THAT LISTS THE ACTION TAKEN AND REVISIONS MADE TO EVERY DRAWING AND EQUIPMENT DATA SHEET IN RESPONSE TO SUBMITTAL REVIEW COMMENTS. FAILURE TO INCLUDE THIS COVER LETTER WILL CONSTITUTE REJECTION OF THE RE-SUBMITTAL PACKAGE.

PART 2 PRODUCTS AND EXECUTION

- A. CONDUIT
1. ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC CONDUIT EXCEPT AS PERMITTED BELOW. GRC MAY BE USED IN ALL AREAS. IMC MAY BE USED IN INDOOR LOCATIONS NOT IN CONTACT WITH EARTH. EMT MAY BE USED IN INDOOR LOCATIONS NOT IN CONTACT WITH EARTH, NOT IN CONCRETE SLABS OR WALLS AND NOT SUBJECT TO DAMAGE. PVC MAY BE USED IN OR BELOW CONCRETE AND DIRECT BURIED IN EARTH. FLEXIBLE STEEL CONDUIT SHALL BE USED FOR INDOOR FINAL CONNECTIONS TO MECHANICAL EQUIPMENT NOT TO EXCEED 36" AND RECESSED REMOVABLE FLUORESCENT LIGHT FIXTURES NOT TO EXCEED 72". LIQUID-TIGHT FLEXIBLE STEEL CONDUIT SHALL BE USED FOR OUTDOOR FINAL CONNECTIONS TO EQUIPMENT NOT TO EXCEED 36".
2. WHERE THE CONDUIT ENTERS OUTLET BOXES, FIXTURES OR CABINETS, FIRMLY FASTEN BY DOUBLE LOCKNUTS AND BUSHINGS (GRC AND IMC ONLY), FIRMLY FASTEN CONDUIT TO THE BUILDING CONSTRUCTION. CONDUIT CONDUIT PARALLEL TO THE BUILDING LINES, SUPPORTED BY APPROPRIATE HANGERS.
3. COVER METALLIC CONDUIT IN CONTACT WITH EARTH OR FILL WITH POLYETHYLENE TAPE SPIRAL WRAPPED 1/2" LAPPED TO PROVIDE DOUBLE THICKNESS. TAPE SHALL BE SCOTCH NO. 50 TAPE. CONDUIT AND DUCTS NOT UNDER BUILDINGS AND FEEDER DUCTS SHALL BE INSTALLED PER CEC 300.5, EXCEPT THAT THE BENDS IN CONDUIT LARGER THAN 1" IN DIAMETER SHALL BE MADE WITH GALVANIZED STEEL CONDUIT TREATED AS NOTED ABOVE. MAKE JOINTS WITH COMPOUND TO BE WATERIGHT.
4. CONDUIT SIZES SHALL BE AS REQUIRED BY CODE AND AS INDICATED OR SPECIFIED ON DRAWINGS. NO CONDUIT SMALLER THAN 3/4" INCH TRADE SIZE SHALL BE USED.
5. PENETRATION THROUGH FLOOR SLABS WHERE SUBJECT TO DAMAGE SHALL BE IN WRAPPED RIGID STEEL. SCHEDULE 40 PVC ELBOWS AND PENETRATIONS MAY BE USED IN SLAB ON GRADE WHERE PENETRATIONS OCCUR IN PROTECTED AREAS (WALLS, ELECTRICAL ROOMS, ETC.).
6. CONDUITS AND OUTLETS SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE, EXCEPT THAT CERTAIN MOTOR AND LIGHTING FEEDER CONDUITS MAY BE RUN EXPOSED IN CERTAIN AREAS AS INDICATED ON THE DRAWINGS. CONDUIT SHOWN TO BE INSTALLED IN CABINETS, COUNTERS, AND CASEWORK SHALL BE RUN AS DIRECTED BY THE ARCHITECT.
7. ALL CONDUIT SERVING ROOF MOUNTED EQUIPMENT AND DEVICES INCLUDING HVAC EQUIPMENT, GFCI MAINTENANCE RECEPTACLES AND QUOT TYPE SMOKE DETECTORS SHALL BE ROUTED IN THE CEILING SPACE. CONDUIT SHALL PENETRATE ROOF AT EQUIPMENT LOCATIONS ONLY. NO CONDUIT SHALL BE INSTALLED HORIZONTALLY ACROSS ROOF SURFACE.
8. FLEXIBLE METALLIC AND NON-METALLIC CONDUIT SYSTEMS SHALL HAVE A CODE SIZED COPPER GROUND CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED.
9. FLEXIBLE METAL CONDUIT/CUT-IN BOXES FOR LOW VOLTAGE SYSTEMS (TEL/DATA) MAY BE USED IN WALL CAVITIES PROVIDED THE INSTALLATION COMPLES WITH CEC ARTICLE 348. ALL CONDUIT FOR LOW VOLTAGE WIRING SYSTEMS IN NEW WALL PARTITIONS SHALL BE EMT. FLEXIBLE METAL CONDUIT FOR THESE SYSTEMS IS NOT ACCEPTABLE IN NEW WALLS.
• IMC SHALL BE ALLOWED.
• ONLY BE USED FOR FINAL CONNECTIONS TO LIGHT FIXTURES, MOTORS, VIBRATING ELECTRICAL EQUIPMENT AND HORIZONTAL RUNS IN WOOD OR METAL STUD WALLS ONLY.
• FMC SHALL BE ≤ 6' IN LENGTH.
• FOR REMODELING PURPOSE ONLY, FMC MAY BE LONGER IF CONTRACTOR HAS OBTAINED IOR PERMISSION PRIOR TO INSTALLATION.
• FMC SHALL HAVE ANTI-SHORT BUSHINGS INSTALLED AT EACH CONNECTOR POINT TO INSTALLING THE CONDUCTORS.
10. ALL EMPTY CONDUIT SYSTEMS SHALL HAVE A 200 POUND TEST PULL CORD INSTALLED TO FACILITATE INSTALLATION OF FUTURE WIRE.
B. FITTINGS
1. EMT-FITTINGS AND CONDUIT BOXES SHALL BE STEEL, MALLEABLE IRON OR DIE CAST COMPRESSION OR THREADED.
2. IMC AND GRC-SHALL BE STEEL OR MALLEABLE IRON TYPE AND SHALL ENGAGE A MINIMUM OF FIVE (5) THREADS.
C. OUTLET, PULL AND JUNCTION BOXES
1. PULL AND/OR JUNCTION BOXES SHALL BE INSTALLED WHEREVER SHOWN ON THE DRAWINGS OR AS REQUIRED BY CODE.
2. EACH SWITCH, LIGHT, RECEPTACLE OR OTHER OUTLET SHALL BE PROVIDED WITH A CODE GAUGE, GALVANIZED STEEL, OUTLET BOX, JUNCTION AND PULL BOXES SHALL BE CODE GAUGE, GALVANIZED STEEL. OUTLET BOXES SHALL BE OF THE ONE PIECE, KNOCKOUT TYPE, IN GENERAL 4-INCH SQUARE, 2 1/8-INCH WITH PLASTER RING. PLASTER RINGS SHALL BE SET TO PROVIDE NOT MORE THAN 1/8" FROM WALL SURFACE TO RING. IN NO CASE SHALL PLASTER RING PROJECT BEYOND SURFACE OF WALL. SINGLE GANG RINGS SIMILAR TO STEEL CITY 52050 SHALL BE USED FOR 4" BOXES IN UNFINISHED BRICK. NUMBER 180 BOXES MAY BE USED FOR UNFINISHED MASONRY FINISH WALL OUTLETS. CENTER ALL OUTLET BOXES IN BLOCK COURSE.
3. BOXES INSTALLED IN POURED CEMENT FLOORS SHALL BE FLUSH TYPE CAST BORN WITH WATERIGHT GASKETED COVERS, GRAY METALLIC FINISH. WHERE BOXES ARE INSTALLED IN FLOORS WITH TILE OR CARPET FLOOR COVERING, COVERS SHALL BE OF THE RECESSED TYPE TO ACCOMMODATE THE FLOOR COVERING.
4. BOXES INSTALLED FOR THE ALARM, COMPUTER AND SECURITY SYSTEM SHALL BE PROVIDED WITH APPROPRIATE COVER PLATES.
5. PULL BOXES SHALL BE THE TYPES, SIZE AND DESIGN AS APPROVED BY THE CEC FOR THE CLASS OF INSTALLATION REQUIRED.
6. PULL BOXES AND OUTLET BOXES SHALL BE SIZED BY THE ELECTRICAL

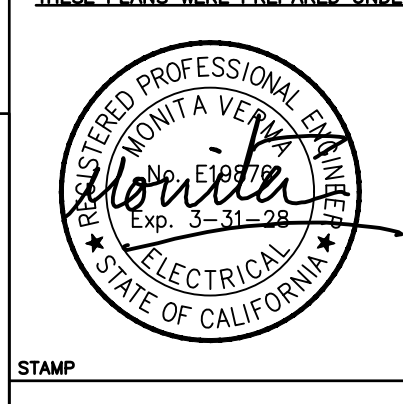
- CONTRACTOR AS REQUIRED BY THE CEC BASED ON NUMBER OF CONDUCTORS, YOKES, STRAPS, ETC., USED IN THE INSTALLATION.
D. WIRE
1. MATCH BUILDING STANDARDS IF APPLICABLE IN AN EXISTING BUILDING CONDITION, UNLESS OTHERWISE FOLLOW THE SPECIFICATIONS BELOW.
2. CONDUCTOR SIZES SHOWN ON THE DRAWINGS ARE BASED ON COPPER WIRE. UNLESS OTHERWISE SPECIFIED, ALL WIRE SHALL BE 75 DEGREE C TYPE THIN OR XHHW. ALL BRANCH CIRCUIT AND FEEDER WIRING SHALL BE COPPER.
3. WIRES SHALL BE MARKED WITH COLOR TO SIMPLY CIRCUIT IDENTIFICATION. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES, IDENTIFICATION SHALL BE AS FOLLOWS:
a. 120/208V AND 120/240V
PHASE A: BLACK
PHASE B: RED
PHASE C: BLUE
NEUTRAL: WHITE
GROUND: GREEN
b. 277/480V
PHASE A: BROWN
PHASE B: ORANGE
PHASE C: YELLOW
NEUTRAL: GRAY
GROUND: GREEN
4. THE WIRE SHALL BE #12 AWG UNLESS OTHERWISE INDICATED.
5. NO WIRE SHALL BE INSTALLED IN THE CONDUIT SYSTEM UNTIL THE CONDUIT SYSTEM IS COMPLETE. USE UL1 FACILITY TO FACILITATE THE INSTALLATION OF THE CONDUCTORS IN THE CONDUIT SYSTEM.
6. CONDUCTORS NO. 10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS LARGER THAN NO. 10 AWG SHALL BE STRANDED.
E. WIRING DEVICES
1. SWITCHES: WALL SWITCHES SHALL BE SPECIFICATION GRADE AC SILENT TYPE SWITCHES 20A, 120 277 VOLT, HUBBELL 1221 (SP), 1222 (DP), 1223 (3-WAY) AND 1224 (4-WAY). DIMENSION SHALL BE SPECIFICATION GRADE WITH PRESET SLIDE CONTROL. COLOR SHALL BE AS APPROVED BY THE ARCHITECT/OWNER. MATCH BUILDING STANDARD (IF EXISTING).
2. RECEPTACLES: DUPLEX TYPE OUTLETS SHALL BE HEAVY DUTY, SPECIFICATION GRADE NEMA 5-20R, 20A, 120V GROUNDED TYPE EQUAL TO HUBBELL ISOLATED GROUND OUTLETS SHALL BE EQUAL TO HUBBELL 053862. SPECIAL APPLICATION RECEPTACLES SHALL BE AS INDICATED ON PLANS AND VERIFIED WITH EQUIPMENT SUPPLIER. COLOR SHALL BE AS APPROVED BY THE ARCHITECT/OWNER. MATCH BUILDING STANDARD (IF EXISTING).
3. RECEPTACLES: DUPLEX TYPE OUTLETS SHALL BE HEAVY DUTY, SPECIFICATION GRADE NEMA 5-20R, 20A, 120V GROUNDED TYPE EQUAL TO HUBBELL ISOLATED GROUND OUTLETS SHALL BE EQUAL TO HUBBELL 053862. SPECIAL APPLICATION RECEPTACLES SHALL BE AS INDICATED ON PLANS AND VERIFIED WITH EQUIPMENT SUPPLIER. COLOR SHALL BE AS APPROVED BY THE ARCHITECT/OWNER. MATCH BUILDING STANDARD (IF EXISTING).
4. GFCI RECEPTACLES: SHALL BE HUBBELL GFS362. GFCI RECEPTACLES SHALL BE USED IN ALL OUTDOOR APPLICATIONS AS WELL AS THOSE PLACED WITHIN 6' OF WATER SOURCE AND ALL OTHER CEC REQUIRED LOCATIONS.
5. MOUNTING HEIGHTS: SWITCHES --4+8 INCHES. RECEPTACLES --+18 INCHES. COMMUNICATION DEVICES +18 INCHES. FIRE ALARM DEVICES AS REQUIRED BY ADA, NFPA 72 OR AUTHORITY HAVING JURISDICTION. ALL MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICE.
6. DEVICE PLATES SHALL BE EQUAL TO SIERRA SMOOTH-LINE PLASTIC WALL PLATES COLOR SHALL BE AS APPROVED BY THE ARCHITECT/OWNER. MATCH BUILDING STANDARD (IF EXISTING).
7. IN ALL CASES, SWITCHES AND CONTROLLED LIGHTING ARE TO BE LOCATED ON THE STRIKE SIDE OF DOORS. LOCATIONS INDICATED FOR SWITCHES AND OUTLETS ARE APPROXIMATE. OWNER MAY MAKE MINOR RELOCATIONS AT NO ADDITIONAL CHARGE.
F. LIGHTING FIXTURES
1. COORDINATE THE FINAL LOCATION OF FIXTURES SHOWN DIAGRAMMATICALLY ON THE DRAWINGS WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES. RELOCATE FIXTURES AS REQUIRED AS PART OF THE WORK UNDER THIS DIVISION IF NEW LOCATION IS WITHIN A FIVE FOOT RADIUS OF LOCATION SHOWN.
2. PROVIDE ALL LIGHTING FIXTURES, WIRE AND CONNECTED. THE DRAWINGS INDICATE THE FIXTURES FOR EACH LOCATION. ELECTRICAL CONTRACTOR SHALL VERIFY FIXTURE LOCATIONS, MOUNTING REQUIREMENTS AND UL LABELING OF ALL FIXTURES PRIOR TO ORDERING. INCLUDE ALL ACCESSORIES NEEDED FOR A COMPLETE INSTALLATION INCLUDING MOUNTING CLIPS, PLASTER HANGERS, HANGERS AND HARDWARE IN BASE BID. PROVIDE LAMPS FOR ALL FIXTURES. VERIFY CEILING CONSTRUCTION BEFORE ORDERING RECESSED UNITS.
3. ADJUSTABLE FIXTURES SHALL BE LOCATED AND PROPERLY AIMED AS DIRECTED BY THE ARCHITECT OR THE LIGHTING DESIGNER.
4. SUPPORT RECESSED FIXTURES FROM CEILING STRUCTURAL SUPPORT PER ADOPED BUILDING CODES.
5. ALL FIXTURES TO BEAR THE UL LABEL. ALL OUTDOOR FIXTURES SHALL BE UL LABELLED FOR WET OR DAMP LOCATION AS DEFINED BY CEC ARTICLE 100.
G. LAMPS
1. LAMPS SHALL BE BY THE SAME MANUFACTURER. LAMPS SHALL BE MANUFACTURED BY GE, PHILIPS OR USHIO.
H. SAFETY SWITCHES
1. SAFETY SWITCHES SHALL BE GENERAL DUTY TYPE, 250 VOLT FOR 208 VOLT EQUIPMENT AND HEAVY DUTY TYPE, 600 VOLT FOR 480 VOLT EQUIPMENT. SAFETY SWITCHES SHALL HAVE THE NUMBER OF POLES REQUIRED. WIRE TERMINATIONS SHALL BE LISTED AS SPECIFIED BY THE CEC. SAFETY SWITCHES FOR AIR CONDITIONING USE SHALL BE OF THE FUSIBLE TYPE WHERE RECOMMENDED BY EQUIPMENT MANUFACTURER. FUSIBLE SWITCHES SHALL ACCEPT CLASS 'R' FUSES ONLY AND WILL REJECT ALL OTHER TYPES. THE SWITCH SIZE, NUMBER OF POLES AND VOLTAGE RATING SHALL BE AS REQUIRED BY CODE AND AS INDICATED ON THE DRAWINGS. WHERE OUTSIDE THE BUILDING, THE SWITCHES SHALL BE TYPE NEMA 3R WEATHERPROOF. ALL SWITCHES SHALL BE LOCKABLE.
2. PROVIDE DPMO-TAPE TAG INSIDE COVER OF EACH FUSIBLE SWITCH, INDICATING SIZE AND TYPE OF FUSES PROVIDED.
I. FUSES
1. FUSES SHALL BE DUAL ELEMENT TIME DELAY TYPE, AS MANUFACTURED BY BUSSMANN MFG. COMPANY, OR AS INDICATED OR REQUIRED BY THE EQUIPMENT SUPPLIER.
2. PROVIDE TWO (2) SETS OF THREE (3) SPARE FUSES FOR EACH SIZE AND TYPE PROVIDED ON THIS PROJECT. INSTALL FUSES IN A HINGED DOOR, SHEET METAL STORAGE CABINET EQUIPPED WITH CLIPS OR CUBICLES, EACH MARKED WITH THE SIZE AND TYPE OF FUSE STORED THEREIN. INSTALL IN LOCATION AS DIRECTED BY OWNER. PROVIDE NAMEPLATE "SPARE FUSES".
J. SERVICE ENTRANCE
1. THE SERVICE ENTRANCE EQUIPMENT SIZE, VOLTAGE AND RATING SHALL BE AS INDICATED ON THE DRAWINGS. PROVIDE COPPER BUSING UNLESS OTHERWISE NOTED OR PERMITTED. EQUIPMENT SHALL CARRY THE UL LABEL AND SHALL CONFORM TO THE POWER COMPANY REGULATIONS.
2. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY AND CONFIRM THAT

- EQUIPMENT SUBMITTED SHALL FIT WITHIN THE ALLOTTED SPACE REQUIREMENTS SHOWN ON THE PLANS. DRAWINGS INDICATE MAXIMUM DIMENSIONS FOR SWITCHBOARDS INCLUDING CLEARANCES BETWEEN SWITCHBOARDS AN ADJACENT SURFACES AND OTHER ITEMS. COMPLY WITH MAXIMUM DIMENSIONS. IF ANY SPACE OR SIZE DISCREPANCIES ARE ANTICIPATED IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO SUBMITTAL. ONCE THE SUBMITTALS HAVE BEEN APPROVED IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO INSTALL THE EQUIPMENT WITHIN THE ALLOTTED SPACE AT NO ADDITIONAL COST TO THE OWNERS.
3. SERVICE ENTRANCE EQUIPMENT SHALL BE MANUFACTURED BY GENERAL ELECTRIC, SQUARE D, CUTLER-HAMMER, SIEMENS OR APPROVED EQUAL.
4. ALL OVERCURRENT PROTECTION DEVICES AND ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE FULLY (100%) RATED FOR AVAILABLE FAULT CURRENT INDICATED. SERIES RATED DEVICES ARE NOT ACCEPTABLE.
K. TRANSFORMERS
1. TRANSFORMERS SHALL BE DRY WITH COPPER WINDINGS, 115 VOLTAGE RISE, AND 1P-1 COMPLIANT. SEE DRAWINGS FOR K RATING, KVA RATING, VOLTAGE AND "DELTA"- "WYE" CONFIGURATION REQUIREMENTS.
2. ALL TRANSFORMERS SHALL BE PROVIDED WITH CLASS 220 DEGREE CELSIUS INSULATION SYSTEM AND SHALL BE COMPLETELY ENCLOSED EXCEPT FOR VENTILATION OPENINGS.
3. TRANSFORMERS SHALL BE 115 DEGREE TEMPERATURE RISE ABOVE 40 DEGREE CELSIUS AMBIENT TEMPERATURE.
4. TRANSFORMERS SHALL BE EQUIPPED WITH FOUR 2-1/2% (2 ABOVE AND 2 BELOW NORMAL VOLTAGE) PRIMARY TAPS.
L. PANELBOARDS
1. CIRCUIT BREAKER TYPE AS INDICATED ON DRAWINGS. ALL PANELS SHALL HAVE PANELBOARD TYPE CONSTRUCTION WITH BOLT-ON CIRCUIT BREAKERS. PANELS INDICATED AS LOADCENTERS SHALL HAVE PULL-OUT CIRCUIT BREAKERS.
2. BUSING SHALL BE COPPER UNLESS OTHERWISE NOTED OR PERMITTED.
3. MANUFACTURERS SHALL BE GENERAL ELECTRIC, SQUARE D, CUTLER-HAMMER, SIEMENS WITH VOLTAGE, SIZES AND RATINGS AS INDICATED ON DRAWINGS. ALL PANELBOARDS IN THE FACILITY SHALL BE BY THE SAME MANUFACTURER.
4. THE CIRCUIT BREAKERS SHALL BE OPERABLE IN ANY POSITION AND BE REMOVABLE FROM THE FRONT OF THE PANELBOARD WITHOUT DISTURBING THE ADJACENT UNITS. BRANCH BREAKERS SHALL BE OF SUCH DESIGN THAT COMBINATION OF SINGLE-POLE, DOUBLE-POLE AND THREE-POLE BREAKERS CAN BE ASSEMBLED ON THE SAME PANEL. EACH BRANCH CIRCUIT SHALL BE CLEARLY NUMBERED. BRANCH AND MAIN TERMINALS SHALL BE OF THE SOLDBREAKER TYPE. HANDLE TIES TO FORM MULTI-POLE BREAKERS ARE NOT ACCEPTABLE.
5. WIRE TERMINATION FOR PANELBOARDS, LOADCENTERS AND CIRCUIT BREAKERS SHALL BE LISTED AS SPECIFIED BY THE CEC.
6. PROVIDE A TYPENRITEN CIRCUIT INDEX BEHIND CLEAR PLASTIC COVER ON INSIDE OF DOOR. INFORMATION SHALL INCLUDE ROOM AND TYPE OF LOAD. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED, INCLUDING SPARES. INDEX CARD FRAME SHALL BE METAL, SECURED TO DOOR.
7. WHERE PANELBOARDS ARE INSTALLED FLUSH WITH THE WALLS, EXTEND EMPTY CONDUITS FROM THE PANELBOARD TO AN ACCESSIBLE SPACE ABOVE OR BELOW. PROVIDE 3/4" (MINIMUM SIZE) CONDUIT FOR EVERY THREE SINGLE SPACE CIRCUIT BREAKERS OR SPACE OR EQUIVALENT MULTI-POLE ARRANGEMENT, OR FRACTION THEREOF, BUT NOT LESS THAN TWO CONDUITS FOR EACH PANELBOARD. EXISTING CIRCUIT DIRECTORY OR CIRCUIT IDENTIFICATION, IF CIRCUITS ARE ADDED, ELIMINATED, OR OMITTED, UPDATED. A NEW, TYPED, UPDATED CIRCUIT DIRECTORY WHICH INCLUDE SPARES & SPACES. FELT OR INK MARKINGS ON THE CARD & NEXT TO BREAKERS WILL NOT BE ACCEPTABLE. PLACE DIRECTORY IN A CLEAR PLASTIC ENVELOPE.
M. SYSTEM GROUNDING
1. GROUNDING SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 250. ALL EXPOSED NONCURRENT-CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, METALLIC RACEWAY SYSTEMS, METALLIC CABLE ARMOR, GROUNDING CONDUCTOR IN NONMETALLIC RACEWAYS, AND GROUNDED CONDUCTORS OF THE WIRING SYSTEM SHALL BE GROUNDED.
2. THE GROUNDED CONDUCTOR (NEUTRAL) OF THE WIRING SYSTEM SHALL BE CONNECTED TO THE SYSTEM GROUNDING CONDUCTOR AT A SINGLE PLACE IN EACH SYSTEM BY REMOVABLE BONDING JUMPS, SIZED ACCORDING TO THE APPLICABLE PROVISIONS OF THE CEC. THE GROUNDED CONDUCTOR (NEUTRAL) TO THE GROUNDING CONDUCTOR CONNECTION SHALL BE LOCATED IN THE ENCLOSURE FOR THE SYSTEM'S OVERCURRENT PROTECTION OR WHERE OTHERWISE INDICATED ON THE PLANS OR SPECIFICATIONS.
3. GROUND BUS SEPARATE FROM THE NEUTRAL BUS SHALL BE PROVIDED IN ALL SWITCHBOARDS AND PANELBOARDS. GROUND BUS SHALL BE RE-TORQUED (CHECKED) PRIOR TO ENERGIZING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
4. GROUND BUSES AND NEUTRAL BUSES IN ALL DISTRIBUTION PANELS, SWITCHBOARDS, PANELBOARDS AND THOSE PROVIDED IN ANY EQUIPMENT SHALL BE ISOLATED EXCEPT WHERE REQUIRED TO BE CONNECTED AS SPECIFIED ABOVE FOR THE SERVICE ENTRANCE AND IN TRANSFORMER TERMINAL COMPARTMENTS.
5. WHEN INDICATED ON THE DRAWINGS, EQUIPMENT GROUNDING CONDUCTORS SHALL BE EXTENDED FROM THE GROUND BUS IN THE DISTRIBUTION EQUIPMENT TO THE RECEPTACLE, FIXTURE OR DEVICE LUGS WHERE THEY ARE PROVIDED. WHEN NOT PROVIDED, THEY SHALL BE CONNECTED TO EQUIPMENT ENCLOSURES. THE CONNECTIONS SHALL BE ARRANGED SUCH THAT REMOVAL OF THE RECEPTACLE, THE EQUIPMENT GROUND CONDUCTORS, OR THE GROUND JUMPS FROM GROUND BUSING SHALL NOT AFFECT THE GROUND SYSTEM.
6. RACEWAYS MAY NOT BE USED AS A GROUNDING CONDUCTOR FOR POWER AND LIGHTING CIRCUITS. EVERY CONDUIT SUPPLYING POWER AND LIGHTING CIRCUITS SHALL HAVE A SEPARATE CODE SIZED GREEN GROUND WIRE INSTALLED IN THE CONDUIT TO ENSURE A CONTINUOUS GROUNDING PATH.
7. IN INACCESSIBLE LOCATIONS MAKE CONNECTIONS BY EXOTHERMIC WELD PROCESS.
8. IN ACCESSIBLE LOCATIONS, CONNECTIONS SHALL BE MADE WITH APPROVED BOLTED BRONZE GROUNDING DEVICES.
N. EQUIPMENT CONNECTIONS
1. ALL MOTORS SHALL BE WIRED TO CONFORM WITH MANUFACTURER'S RECOMMENDATIONS AND WITH APPLICABLE CODES. FURNISH NECESSARY MATERIALS, SUCH AS WIRE, CONDUIT, FITTINGS, ETC. REQUIRED TO CONNECT HUBBARD MFG. COMPANY, OR AS INDICATED OR REQUIRED BY THE EQUIPMENT SUPPLIER. THE MOTOR BEFORE INSTALLING THE CONDUIT OR OUTLETS.
2. FINAL CONNECTION TO ALL HVAC OR MOTOR LOADS FROM LOAD SIDE OF DISCONNECT SHALL BE MADE USING COPPER WIRE ONLY. ALUMINUM WIRE NOT ACCEPTABLE.
O. COMMUNICATION SYSTEMS
1. FOR ALL COMMUNICATION OUTLETS PROVIDE DOUBLE GANG BACK BOX WITH SINGLE GANG PLASTER RING. PROVIDE 1 CONDUIT TO 6" ABOVE ACCESSIBLE CEILING WITH 90 DEGREE CONDUIT BUSHING UNLESS OTHERWISE NOTED ON DRAWINGS. FOR NON-ACCESSIBLE CEILINGS, ROUTE CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE OR TO NEAREST COMMUNICATION CLOSET. PROVIDE BLANK COVER PLATES FOR ALL UNUSED BOXES.
2. PROVIDE 3/4" FIRE RATED PLYWOOD FOR TELEPHONE TERMINAL BACKBOARD AND

- PAINT TO MATCH WALL SURFACE. REFER TO DRAWINGS FOR DIMENSIONS OF BACKBOARD.
3. PROVIDE #6 AWG CU GROUND WIRE FROM EQUIPMENT BACKBOARD TO BUILDING OR SIZE DISCREPANCIES ARE ANTICIPATED IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO SUBMITTAL. ONCE THE SUBMITTALS HAVE BEEN APPROVED IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO INSTALL THE EQUIPMENT WITHIN THE ALLOTTED SPACE AT NO ADDITIONAL COST TO THE OWNERS.
P. LIGHTING CONTROL
1. FURNISH AND INSTALL LIGHTING CONTROL PANELS, OVERRIDE SWITCHES, TIME SWITCHES, PHOTOCELLS AND CONTACTORS REQUIRED FOR LIGHTING CONTROL AS INDICATED ON THE DRAWINGS. LIGHTING CONTROL SYSTEM DESIGN AND ALL ASSOCIATED COMPONENTS SHALL CONFORM TO ADOPTED ENERGY CODES.
Q. FIRE ALARM SYSTEM
1. FIRE ALARM IS NOT SHOWN ON THESE DRAWINGS. FIRE ALARM IS REQUIRED AS A PART OF THE CONTRACTOR'S SCOPE OF WORK. CONTRACTOR SHALL ENGAGE THE SERVICES OF A STATE LICENSED FIRE ALARM CONTRACTOR FOR THE DESIGN AND INSTALLATION OF A COMPLETE AND OPERABLE FIRE ALARM SYSTEM THAT COMPLIES WITH ALL NFPA, CEC AND LOCAL ORDINANCES AND REQUIREMENTS APPROVED BY AUTHORITY HAVING JURISDICTION. SYSTEM DESIGN AND INSTALLATION SHALL BE COMPATIBLE WITH EXISTING SHELL BUILDING AND APPROVED BY LANDLORD PRIOR TO BID. MANUFACTURER OF FIRE ALARM SYSTEM SHALL BE THE SAME MANUFACTURER AS THE SHELL BUILDING UNLESS OTHERWISE APPROVED BY LANDLORD AND AUTHORITY HAVING JURISDICTION. INCLUDE ALL COSTS IN BASE BID.
R. MISC
1. ANSI/NECA 1-2010 STANDARD PRACTICE OF GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION PER NFPA 70:110.12 MECHANICAL EXECUTION OF WORK.
S. MEGGAR TESTING
1. PERFORM MEGGER TESTING OF ALL NEW POWER WIRES PER NETA ATS ACCEPTANCE TESTING SPECIFICATIONS FOR ELECTRICAL POWER DISTRIBUTION EQUIPMENT AND SYSTEMS. INSPECT AND TEST IN ACCORDANCE WITH NETA ATS, EXCEPT SECTION 4. B. PERFORM INSPECTIONS AND TESTS LISTED IN NETA ATS, SECTION 7.3.1.

E0.2

Table with columns: NUMBER, DESCRIPTION, DATE, DRAWN, DESIGNED, REVIEWED, STREET, SEWER, DRAINAGE, WATER, TRAFFIC, UTILITY/ELEC, LANDSCAPE, FACILITIES, GENERAL ENG, DESIGN ENG, INSPECTION, PARKS & REC, AS-BUILT. Includes REVISIONS table and APPROVED/ACCEPTED signatures.



PANEL SCHEDULE NOTE

- CONTRACTOR SHALL PROVIDE 30-DAY LOAD READINGS FOR PANELS FOR EFOR REVIEW AND APPROVAL ON LOAD ADDITION, PRIOR TO COMMENCEMENT OF ANY NEW WORK.
- ALL NEW CIRCUIT BREAKERS INSTALLED IN ALL EXISTING PANELS SHALL MATCH THE HIGHEST EXISTING AC RATED CIRCUIT BREAKER WITHIN THAT BOARD. INSPECTOR TO VERIFY HIGHEST AC RATING AT THE SITE.
- CONTRACTOR SHALL VERIFY EXISTING PANELS RATING AND ALL EXISTING LOAD TYPE & WATAGE AND SUBMIT COMPLETE PANEL DIRECTORY FOR EFOR TO REVIEW BEFORE COMMENCEMENT OF ANY NEW WORK. AFTER EFOR APPROVAL, PROVIDE AND PLACE COMPLETE PANEL DIRECTORY ON THE EXISTING PANELS.

(E)PANEL-L1A														
VOLTAGE: 480 / 277 BUS AMPS: 100 A A.I.C RATING: 10,000 A														
PHASE: 3 DEVICE AMPS: 100 A MCB MOUNTING: RECESSED														
WIRE: 4 NEMA: 1														
%W.D	CIRCUIT WIRE	LOCATION DESCRIPTION	LOAD (kVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD (kVA)	LOCATION DESCRIPTION	CIRCUIT WIRE	%W.D	
-	-	SPACE			-	1	A	2	20/1	A	1.800	(E) OFFICE / ENTRANCE LOBBY / BATHR LTB (1)	EXISTING	-
-	-	SPACE			-	3	B	4	20/1	A	2.400	(E) MULTI-PURPOSE / DAY CARE LTS (1)	EXISTING	-
-	-	SPACE			-	5	C	6	20/1	A	3.000	(E) MULTI-PURPOSE / DAY CARE LTS (1)	EXISTING	-
-	-	SPACE			-	7	A	8	20/1	A	2.000	(E) GYM LIGHTS (1)	EXISTING	-
-	-	SPACE			-	9	B	10	20/1	A		SPARE	-	-
-	EXISTING	(E) GYM LIGHTS (1)	2.000	A	20/1	11	C	12	20/1	A	2.000	(E) GYM LIGHTS (1)	EXISTING	-
-	EXISTING	(E) GYM LIGHTS (1)	4.000	A	20/1	13	A	14	20/1	A		SPARE	-	-
-	EXISTING	(E) GYM LIGHTS (1)	4.000	A	20/1	15	B	16	20/1	A		SPARE	-	-
1.80	3/4"C-2#12CU & 1#12G	GYMNASIUM (2)	0.300	A	20/1	17	C	18	20/1	A		SPARE	-	-
-	-	SPACE			-	19	A	20	-	-		SPACE	-	-
-	-	SPACE			-	21	B	22	-	-		SPACE	-	-
-	-	SPACE			-	23	C	24	-	-		SPACE	-	-
-	-	SPACE			-	25	A	26	-	-		SPACE	-	-
-	-	SPACE			-	27	B	28	-	-		SPACE	-	-
-	-	SPACE			-	29	C	30	-	-		SPACE	-	-
-	-	MAIN BREAKER			100/3								-	-

PANEL LOAD ANALYSIS													
Load Type	DESCRIPTION	Conn. kVA	Demand kVA	CEC 2022 REFERENCE	Load Type	DESCRIPTION	Conn. kVA	Demand kVA	CEC 2022 REFERENCE				
A	Lighting	21.50	26.88	CEC Table 210.20	E	Heating	0.00	0.00	CEC Article 220.60				
B	Receptacles	0.00	0.00	CEC Table 220.44	F	Largest Motor	0.00	0.00	CEC Article 220.18(A)				
C	EV charger	0.00	0.00	-	G	Other Motors	0.00	0.00	CEC Article 220.18(A)				
D	Air-Conditioning	0.00	0.00	CEC Table 220.60	H	Other Loads	0.00	0.00	CEC Article 220.14(A)				
Phase A Connected Load		7.800	kVA	Notes:		TOTAL CONNECTED LOAD		21.50	kVA	25.9	AMPS		
Phase B Connected Load		6.400	kVA	1. EXISTING CIRCUIT TO REMAIN		TOTAL DEMAND LOAD		26.88	kVA	32.3	AMPS		
Phase C Connected Load		7.300	kVA	2. NEW C.B. WITH NEW LOAD									
				3. EXISTING C.B. WITH ADDED LOAD									

(E)PANEL-RAC														
VOLTAGE: 208 / 120 BUS AMPS: 125 A A.I.C RATING: 10,000 A														
PHASE: 3 DEVICE AMPS: 125 A MCB MOUNTING: SURFACE														
WIRE: 4 NEMA: 3R														
%W.D	CIRCUIT WIRE	LOCATION DESCRIPTION	LOAD (kVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD (kVA)	LOCATION DESCRIPTION	CIRCUIT WIRE	%W.D	
-	EXISTING	(E)RTU-1 (1)	3.935	D	60/3	1	A	2	30/3	D	2.912	(E)AC-1 (1)	EXISTING	-
-	EXISTING	(E) EF-4 (1)	0.500	D	20/1	7	A	8	20/1	D	0.500	(E) EF-4 (1)	EXISTING	-
-	EXISTING	(E) EF-5 (1)	0.500	D	20/1	9	B	10	20/1	H	1.500	(E) ROOF (1)	EXISTING	-
1.55	3/4"C-2#12CU & 1#12G	EF-6 TO EF-10 (3)	0.250	D	15/1	11	C	12	20/2	D	1.800	(E) RTU-2 (1)	EXISTING	-
1.40	3/4"C-2#12CU & 1#12G	EF-11 TO EF-13 (3)	0.150	D	15/1	13	A	14	20/1	D	1.800	SPARE	-	-
1.25	3/4"C-2#12CU & 1#12G	FAUCET-1 (3)	0.400	H	20/1	15	B	16	20/1	H		SPARE	-	-
0.21	3/4"C-2#12CU & 1#12G	ROOF RECEPTACLE (3)	0.180	H	20/1	17	C	18	20/1	D	0.030	EF-14 (2/4)	3/4"C-2#12CU & 1#12G	0.40

PANEL LOAD ANALYSIS													
Load Type	DESCRIPTION	Conn. kVA	Demand kVA	CEC 2022 REFERENCE	Load Type	DESCRIPTION	Conn. kVA	Demand kVA	CEC 2022 REFERENCE				
A	Lighting	0.00	0.00	CEC Table 210.20	E	Heating	0.00	0.00	CEC Article 220.60				
B	Receptacles	0.00	0.00	CEC Table 220.44	F	Largest Motor	0.00	0.00	CEC Article 220.18(A)				
C	EV charger	0.00	0.00	-	G	Other Motors	0.00	0.00	CEC Article 220.18(A)				
D	Air-Conditioning	26.07	26.07	CEC Table 220.60	H	Other Loads	2.08	2.08	CEC Article 220.14(A)				
Phase A Connected Load		9.797	kVA	Notes:		TOTAL CONNECTED LOAD		28.15	kVA	78.1	AMPS		
Phase B Connected Load		9.247	kVA	1. EXISTING CIRCUIT TO REMAIN		TOTAL DEMAND LOAD		28.15	kVA	78.1	AMPS		
Phase C Connected Load		9.107	kVA	2. EXISTING C.B. WITH NEW LOAD									
				3. NEW C.B. WITH NEW LOAD									
				4. CONTROL VIA TIMECLOCK									

(E)PANEL-LA														
VOLTAGE: 480 / 277 BUS AMPS: 100 A A.I.C RATING: 10,000 A														
PHASE: 3 DEVICE AMPS: 70 A MCB MOUNTING: SURFACE														
WIRE: 4 NEMA: 1														
%W.D	CIRCUIT WIRE	LOCATION DESCRIPTION	LOAD (kVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD (kVA)	LOCATION DESCRIPTION	CIRCUIT WIRE	%W.D	
-	EXISTING	(E) LTG (KIT, HALL, ELEC RM) (1)	3.200	A	20/1	1	A	2	20/1	A	0.150	(E) EMG/ EXT LTG (1)	EXISTING	-
-	EXISTING	(E) EAST PK. LOT LIGHTS (1)	2.000	A	20/1	3	B	4	20/1	A	2.000	(E) NIGHT LIGHTS & CONTROLS (1)	EXISTING	-
-	EXISTING	(E) SOUTH & EAST PK. LOT LIGHTS (1)	2.000	A	20/1	5	C	6	20/1	A	2.000	(E) EAST PK. LOT LIGHTS (1)	EXISTING	-
-	EXISTING	(E) GYM LIGHTS (1)	3.300	A	20/2	7	A	8	20/1	A	1.250	(E) WALKWAY (1)	EXISTING	-
-	EXISTING	(E) SOUTH & EAST PK LOT LIGHTS (1)	2.000	A	20/1	13	A	14	-	-		SPACE	-	-
-	EXISTING	(E) SOUTH & EAST PK LOT LIGHTS (1)	2.000	A	20/1	15	B	16	-	-		SPACE	-	-
-	EXISTING	(E) SOUTH & EAST PK LOT LIGHTS (1)	2.000	A	20/1	17	C	18	-	-		SPACE	-	-

PANEL LOAD ANALYSIS													
Load Type	DESCRIPTION	Conn. kVA	Demand kVA	CEC 2022 REFERENCE	Load Type	DESCRIPTION	Conn. kVA	Demand kVA	CEC 2022 REFERENCE				
A	Lighting	23.65	29.56	CEC Table 210.20	E	Heating	0.00	0.00	CEC Article 220.60				
B	Receptacles	0.00	0.00	CEC Table 220.44	F	Largest Motor	0.00	0.00	CEC Article 220.18(A)				
C	EV charger	0.00	0.00	-	G	Other Motors	0.00	0.00	CEC Article 220.18(A)				
D	Air-Conditioning	0.00	0.00	CEC Table 220.60	H	Other Loads	0.00	0.00	CEC Article 220.14(A)				
Phase A Connected Load		9.900	kVA	Notes:		TOTAL CONNECTED LOAD		23.65	kVA	28.4	AMPS		
Phase B Connected Load		8.550	kVA	1. EXISTING CIRCUIT TO REMAIN		TOTAL DEMAND LOAD		29.56	kVA	35.6	AMPS		
Phase C Connected Load		5.200	kVA	2. NEW C.B. WITH NEW LOAD									
				3. EXISTING C.B. WITH ADDED LOAD									

(E)PANEL-PA														
VOLTAGE: 208 / 120 BUS AMPS: 125 A A.I.C RATING: 10,000 A														
PHASE: 3 DEVICE AMPS: 125 A MCB MOUNTING: SURFACE														
WIRE: 4 NEMA: 1														
%W.D	CIRCUIT WIRE	LOCATION DESCRIPTION	LOAD (kVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD (kVA)	LOCATION DESCRIPTION	CIRCUIT WIRE	%W.D	
-	EXISTING	(E)EMERG. LIGHT GYM (1)	0.050	A	20/1	1	A	2	20/1	B	1.080	(E)STORAGE MEETING GYM RECEPT (1)	EXISTING	-
-	EXISTING	(E)M TELE. BOARD (1)	0.500	B	20/1	3	B	4	20/1	H	1.260	EXISTING LOAD (1)	EXISTING	-
-	EXISTING	(E) MULTI PURP. GYM RECEPT. (1) (3)	1.440	B	20/1	5	C	6	20/1	H	0.500	(E) DRINKING FOUNTAIN (WEST SIDE) (1)	EXISTING	-
-	EXISTING	(E) BILLIARDS MULTI PURP. GYM (1) (3)	1.260	B	20/1	7	A	8	20/1	B	0.500	(E) OFFICE & GYM RECEPT. & HAND DRYER (1)	EXISTING	-
-	EXISTING	(E) MULTI PURP. GYM RECEPT. (1) (3)	1.260	B	20/1	9	B	10	20/1	B	0.500	(E) GYM RECEPT. & SCORE BOARD (1)	EXISTING	-
2.15	3/4"C-2#10CU & 1#12G	(E)NJIH-1 & 2 (2)	0.888	E	20/1	11	C	12	20/1	A	0.450	(E)STAGE LIGHT -TRAC (1)	EXISTING	-
1.57	3/4"C-2#10CU & 1#12G	(E)NJIH-3 & 4 (2)	0.888	E	20/1	13	A	14	20/1	A	0.450	(E)STAGE LIGHT -TRAC (1)	EXISTING	-
-	EXISTING	(E)LIGHT-TRAC (1)	0.300	A	20/1	15	B	16	20/1	A	0.450	(E)STAGE LIGHT -TRAC (1)	EXISTING	-
-	EXISTING	(E)STAGE LIGHT -TRAC (1)	0.300	A	20/1	17	C	18	20/1	D	0.864	(E)JEF-1(GYM ROOF) (1)	EXISTING	-
-	EXISTING	(E)WARWICK CONTROL (1)	0.500	H	20/3	19	A	20	20/1	D	0.864	(E)JEF-1 (1)	EXISTING	-
-	EXISTING	(E)WARWICK CONTROL (1)	0.500	H	20/3	21	B	22	20/1	A	0.500	(E)GYM ROOF RECEPT. SECURITY LIGHT (1)	EXISTING	-
-	EXISTING	(E)FACP (1)	0.500	H	20/1	23	C	24	20/1	D	0.864	(E)JEF-1 (1)	EXISTING	-
-	EXISTING	(E)FACP (1)	0.500	H	20/1	25	A	26	20/1	D	0.864	(E)JEF-1 (1)	EXISTING	-
-	EXISTING	(E)FACP (1)	0.500	H	20/1	27	B	28	20/1	D	0.864	(E)JEF-1 (1)	EXISTING	-
0.90	3/4"C-2#12CU & 1#12G	EQUIPMENT CHECK RECEPT. (2)	0.540	B	20/1	29	C	30	20/1	A	0.500	(E)UP LIGHTS (1)	EXISTING	-
-	EXISTING	(E)TELE-COMM. OFFICE (1)	0.300	B	20/1	31	A	32	20/1	H	1.150	(E)BASKET-HOOP WEST (1)	EXISTING	-
-	EXISTING	(E)TELE-COMM. OFFICE (1)	0.300	B	20/1	33	B	34	20/1	H	1.150	(E)BASKET-HOOP WEST (1)	EXISTING	-
-	EXISTING	(E)BASKET-HOOP WEST (1)	0.500	H	20/1	35	C	36	20/1	H	0.500	(E)CONTROL CIR FOR ROOF (1)	EXISTING	-
-	EXISTING	(E)AVC KIT. (1)	2.400	D	30/2	37	A	38	20/2	D	1.373	(E)RTU 4 (1)	EXISTING	-
-	EXISTING	(E)TIME SWITCH (1)	0.500	H	20/1	41	C	42	20/1	B	0.500	(E)SOUTH OFFICE OUTLETS (1)	EXISTING	-

PANEL LOAD ANALYSIS													
Load Type	DESCRIPTION	Conn. kVA	Demand kVA	CEC 2022 REFERENCE	Load Type	DESCRIPTION	Conn. kVA	Demand kVA	CEC 2022 REFERENCE				
A	Lighting	3.20	4.00	CEC Table 210.20	E	Heating	1.78	0.00	CEC Article 220.60				
B	Receptacles	8.18	8.18	CEC Table 220.44	F	Largest Motor	0.00	0.00	CEC Article 220.18(A)				
C	EV charger	0.00	0.00	-	G	Other Motors	0.00	0.00	CEC Article 220.18(A)				
D	Air-Conditioning	11.87	11.87	CEC Table 220.60	H	Other Loads	8.06	8.06	CEC Article 220.14(A)				
Phase A Connected Load		12.179	kVA	Notes:		TOTAL CONNECTED LOAD		33.08	kVA	91.8	AMPS		
Phase B Connected Load		11.857	kVA	1. EXISTING CIRCUIT TO REMAIN		TOTAL DEMAND LOAD		32.11	kVA	89.1	AMPS		
Phase C Connected Load		9.046	kVA	2. EXISTING C.B. WITH NEW LOAD									
				3. EXISTING C.B. WITH ADDED LOAD									

(N)PANEL-PK														
VOLTAGE: 208 / 120 BUS AMPS: 100 A A.I.C RATING: 10,000 A														
PHASE: 3 DEVICE AMPS: 100 A MCB MOUNTING: SURFACED														
WIRE: 4 NEMA: 1														
%W.D	CIRCUIT WIRE	LOCATION DESCRIPTION	LOAD (kVA)	LOAD TYPE	TRIP POLE	#	PH	#	TRIP POLE	LOAD (kVA)	LOCATION DESCRIPTION	CIRCUIT WIRE	%W.D	
-	-	SPARE			-	1	A	2	30/2		SPACE	-	-	
1.32	3/4"C-2#12CU & 1#12G	STAFF BREAKROOM EQ	1.000	H	20/1	3	B	4	20/1	H	0.800	ICE MAKER (1)	3/4"C-2#12CU & 1#12G	2.01
-	EXISTING	(E) RECEPTACLES	0.540	B	20/1	7	A	8	20/1		SPACE	-	-	
1.87	3/4"C-2#12CU & 1#12G	COFFEE MAKER	1.400	H	20/1	9	B	10	20/1	H	0.800	GARBAGE DISPOSAL (1)	3/4"C-2#12CU & 1#12G	1.10
1.85	3/4"C-2#12CU & 1#12G	MICROWAVE (1)	1.400	H	20/1	11	C	12	20/1	H	0.500	(E) HOOD AND FAN	EXIST	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: INDEPENDENCE PARK GYM Report Page: (Page 1 of 8)
Date Prepared: 21-03-2026

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: INDEPENDENCE PARK GYM Report Page: (Page 1 of 8)
Date Prepared: 21-03-2026

Project Address: 801 W VALENCIA DR Date Prepared: 21-03-2026

A. GENERAL INFORMATION			
01 Project Location (City)	FULLERTON	04 Total Conditioned Floor Area (ft ²)	6,935
02 Climate Zone	8	05 Total Unconditioned Floor Area (ft ²)	0
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1
<input type="checkbox"/> Gymnasium <input type="checkbox"/> Support Areas <input type="checkbox"/> Warehouse <input type="checkbox"/> All Other Occupancies			

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft ²)	Calculation Method	Area (ft ²)
<input type="checkbox"/> New Lighting System				
<input type="checkbox"/> New Lighting System - Parking Garage				
<input checked="" type="checkbox"/> Altered Lighting System	Area Category Method	6935	Area Category Method	0
Total Area of Work (ft²)		6935		0

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-20673-0326-7260
Schema Version: rev 20220101 Report Generated: 2026-03-21 01:45:48

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

C. COMPLIANCE RESULTS
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b) / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)				Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results		
	01	02	03	04	05	06	07		08	
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Category Additional 140.6(c)2G / 170.2(e)4AV (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)						Total Allowed (Watts)
Conditioned	(See Table I)	(See Table I)	(See Table I)	(See Table K)	3,489	2	3,436	0	3,436	05 must be >= 08 140.6 / 170.2(e)
Unconditioned										COMPLIES
Controls Compliance (See Table H for Details)										
Rated Power Reduction Compliance (See Table Q for Details)										

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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Schema Version: rev 20220101 Report Generated: 2026-03-21 01:45:48

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

F. INDOOR LIGHTING FIXTURE SCHEDULE
This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

Name or Item Tag	01	02	03	04	05	06	07	08	09	10
Complete Luminaire Description	(E)TYPE-L	(E)TYPE-L	Modular (Track) Fixture	Small Aperture & Color Change	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector
										Pass Fail
(E)TYPE-L	(E)TYPE-L	No	NA	150	Mfr. Spec	20	No	3,000		<input type="checkbox"/>
TYPE-AE	TYPE-A	No	NA	23	Mfr. Spec	3	No	69		<input type="checkbox"/>
TYPE-AE	TYPE-AE	No	NA	23	Mfr. Spec	1	No	23		<input type="checkbox"/>
TYPE-B	TYPE-B	No	NA	26	Mfr. Spec	4	No	104		<input type="checkbox"/>
TYPE-C	TYPE-C	No	NA	80	Mfr. Spec	3	No	240		<input type="checkbox"/>
Total Designed Watts: CONDITIONED SPACES									3,436	

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls	01	02	03
Mandatory Demand Response 110.12(c)		Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector
			Pass Fail

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-20673-0326-7260
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: INDEPENDENCE PARK GYM Report Page: (Page 4 of 8)
Date Prepared: 21-03-2026

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
Required >= 4,000W subject to multilevel See Area/Space Level Controls

Area Level Controls	04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1 / 170.2(e)2A	Field Inspector	Pass Fail
RESTROOM	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	<input type="checkbox"/>	<input type="checkbox"/>
STORAGE	Commercial Industrial Storage Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	<input type="checkbox"/>	<input type="checkbox"/>
KITCHENETTE	Kitchen/ Food Preparation	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	<input type="checkbox"/>	<input type="checkbox"/>
GYMNASIUM	Exercise Center Gymnasium	Readily Accessible	Dimmer	Occupancy Sensor	NA: General Ltg < 120W	NA: General Ltg < 120W	No	<input type="checkbox"/>	<input type="checkbox"/>
13 Plan Sheet Showing Daylit Zones:									

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.

Conditioned Spaces	01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category PAF	PAF
RESTROOM	Restroom	0.65	132	85.8	No	No

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: INDEPENDENCE PARK GYM Report Page: (Page 5 of 8)
Date Prepared: 21-03-2026

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Area	04	05	06	07	08	09
STORAGE	Commercial Industrial Warehouse	0.4	90	36	No	No
KITCHENETTE	Kitchen/ Food Preparation	0.55	213	117.2	No	No
GYMNASIUM	Exercise Center Gymnasium	0.5	6,500	3,250	No	No
TOTALS: 6,935 3,489 See Tables J, or P for detail						

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: INDEPENDENCE PARK GYM Report Page: (Page 6 of 8)
Date Prepared: 21-03-2026

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DWELLING UNIT LIGHTING
This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Form/Title

NRCC-LTI-E - Must be submitted for all buildings.

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Schema Version: rev 20220101 Report Generated: 2026-03-21 01:45:48

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: INDEPENDENCE PARK GYM Report Page: (Page 7 of 8)
Date Prepared: 21-03-2026

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	RESTROOM ; STORAGE; KITCHENETTE; GYMNASIUM;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: INDEPENDENCE PARK GYM Report Page: (Page 8 of 8)
Date Prepared: 21-03-2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: _____
Signature Date: 2026-03-21
Address: 4005 E LA PALMA AVE., SUITE F
City/State/Zip: ANAHEIM CA 92807
Phone: 7142900718

Responsible Designer Name: MONITA VERMA
Signature Date: 2026-03-21
Address: 1124 N BOATSWAIN CIRCLE
City/State/Zip: ANAHEIM CA 92801
Phone: 7142900718

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.

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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E
Project Name: INDEPENDENCE PARK GYM Report Page: (Page 8 of 8)
Date Prepared: 21-03-2026

REVISIONS

NUMBER	DESCRIPTION	DATE	DRAWN	INITIALS	DATE

APPROVED: _____ DATE: 05/29/2026
CITY ENGINEER/ASSISTANT PUBLIC WORKS DIRECTOR

ACCEPTED: _____ DATE: _____
PUBLIC WORKS DIRECTOR

SCALE: AS NOTED SHEET 47 of 54 SHEETS
B.M.: N/A FILE: MISC 5437

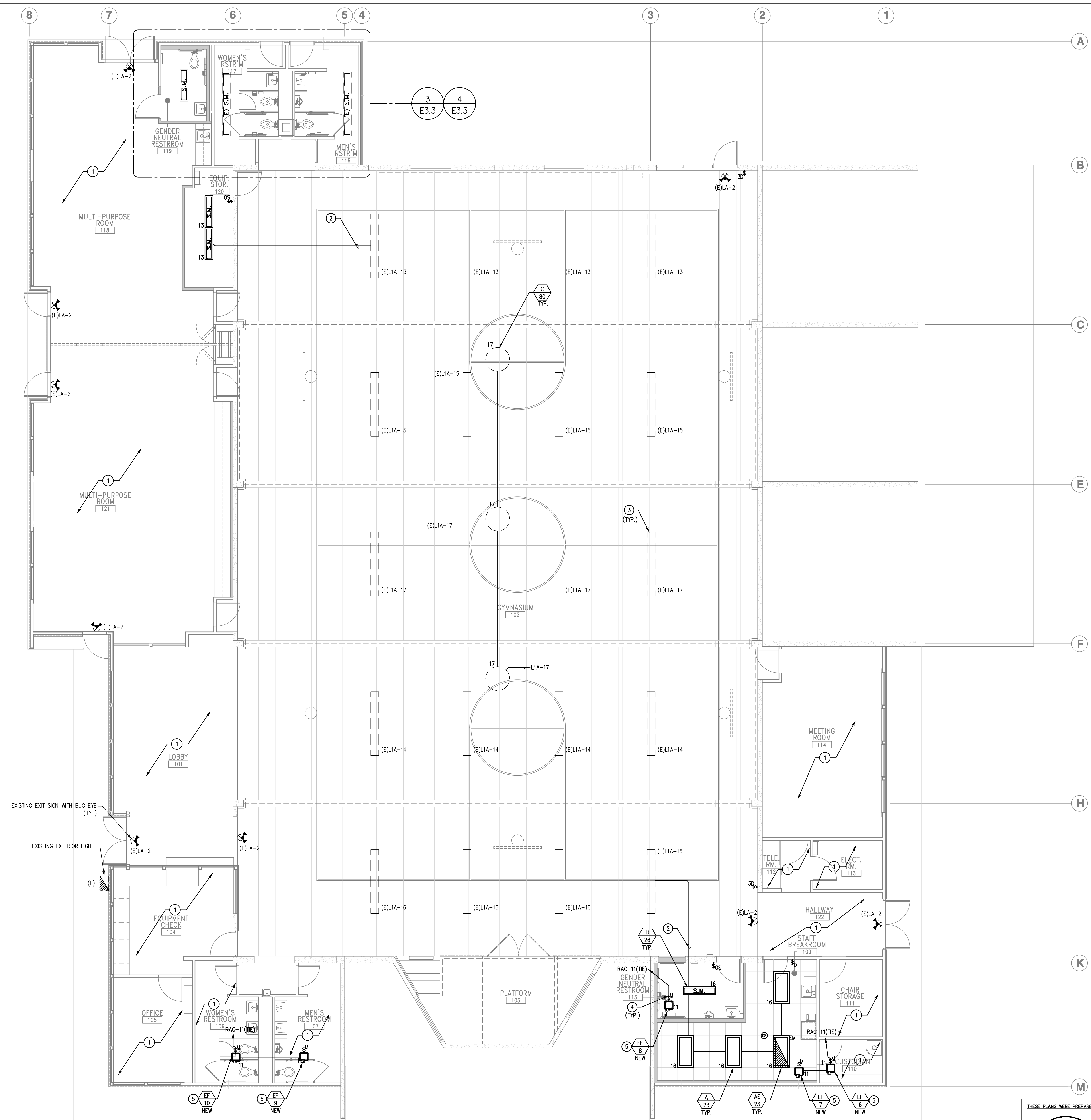


SHEET NOTES

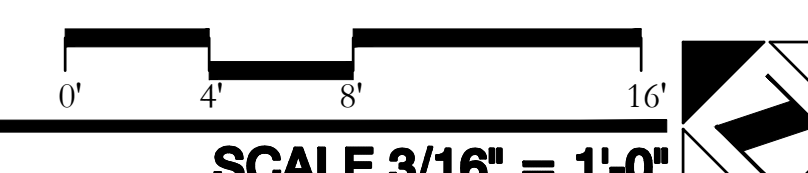
1. U.N.O ALL ELECTRICAL LIGHTING FIXTURE ON THIS AREA TO REMAIN EXISTING WITH CIRCUIT & CONTROLS AND RELOCATE THE SWITCH IF IT IS LOCATED ON A DEMOLITION WALL, AS REQUIRED.
2. EXTEND CONDUIT AND CIRCUIT FROM EXISTING NEARBY LIGHTING CIRCUIT TO CONNECT NEW LIGHTS AS REQUIRED.
3. CONTRACTOR SHALL FIELD VERIFY WHETHER HALF-HATCHED LIGHTS ARE EMERGENCY FIXTURES. IF ANY DISCREPANCY IS FOUND BETWEEN THE FIELD CONDITION AND THE HALF-HATCHED LIGHTS SHOWN ON THE PLANS, CONTRACTOR SHALL REPLACE THEM AS REQUIRED.
4. PROVIDE 15A/1P TOGGLE MOTOR RATED DISCONNECT SWITCH FOR EXHAUST FAN. REFER TO MECHANICAL PLAN FOR ADDITIONAL REQUIREMENTS AND PROVIDE AS DIRECTED.
5. CONTROLLED VIA TIME CLOCK.

GENERAL NOTES

1. LIGHT FIXTURES SHOWN WITH HATCH OR NAMED WITH "EM" ARE PROVIDED WITH INTEGRALLY MOUNTED BATTERY BACK-UP FOR 90MIN OF ILLUMINATION UNDER NORMAL POWER LOSS.
2. REFER TO SHEET E0-4 FOR LIGHT FIXTURE SPECIFICATIONS
3. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES. COORDINATE FIXTURE LOCATIONS WITH DECOR DRAWINGS.
4. ALL WORK AND MATERIALS SHALL BE BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
5. ALL CONDUIT TO BE E-M.T CONDUIT IN CEILING AND WALLS - RIGID CONDUIT UNDER SLAB.



1 ELECTRICAL PROPOSED LIGHTING PLAN



H2S H2S Engineers Inc.
 Mechanical and Electrical Engineers
 4995 E La Palma Ave., Suite F, Anaheim, CA 92807
 Ph: (714) 231-2668 E-mail: h2s@h2sengineers.com
 www.h2sengineers.com

CRANE ARCHITECTURAL GROUP
 Innovations in Architecture
 110 B. WILSHIRE AVE., SUITE 900 FULFERTON, CA 92632
 714.862-0888 FAX 714.862-0888

THESE PLANS WERE PREPARED UNDER THE SUPERVISION OF:

 STAMP: [Signature]
 SIGNATURE: [Signature] DATE: [Blank]

REVISIONS		DATE	INITIALS	DATE
NUMBER	DESCRIPTION	DATE	DRAWN	M.V.
			DESIGNED	M.V.
			REVIEWED	M.V.
			STREET	
			SEWER	
			DRAINAGE	
			WATER	
			TRAFFIC	
			UTILITY/ELEC	
			LANDSCAPE	
			FACILITIES	
			GENERAL ENG	
			DESIGN ENG	
			INSPECTION	
			PARKS & REC	
			AS-BUILT	

E3.2

CITY OF FULLERTON
 PUBLIC WORKS DEPARTMENT
 INDEPENDENCE PARK GYM RENOVATION
 H2S PROJECT 25098

ELECTRICAL PROPOSED LIGHTING PLAN

APPROVED: [Signature] DATE: 05/29/2026
 CITY ENGINEER/ASSISTANT PUBLIC WORKS DIRECTOR

SCALE: AS NOTED
 B.M.: N/A

SHEET 52 of 54 SHEETS
 FILE: MISC 5437

