

ELECTRICAL SYMBOLS

RECEPTACLES (MOUNTED 18" AFF UNLESS INDICATED OTHERWISE)
SUBSCRIPT S = LEVITON 5280-1. SUBSCRIPT C = HUBBELL HBL5235

- DUPLEX RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- DUPLEX RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R) MOUNT 4" ABOVE COUNTER TOP, SINK, OR BACKSPASH (IF PRESENT).
- SINGLE RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- FLOOR RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- SINGLE RECEPTACLE OUTLET (50A, 250V, 3 POLE, 3 WIRE, NEMA 10-50R)
- SINGLE RECEPTACLE OUTLET (20A, 250V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 6-20R)
- SINGLE RECEPTACLE OUTLET (30A, 250V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 6-30R)
- SINGLE RECEPTACLE OUTLET (30A, 250V, 3 POLE, 4 WIRE, TWIST-LOCK, GROUNDING TYPE, NEMA L15-30R)
- SINGLE SPECIAL-PURPOSE RECEPTACLE OUTLET; NUMBER CORRESPONDS TO THE SPECIAL-PURPOSE RECEPTACLE SCHEDULE.
- SINGLE RECEPTACLE FOR ELECTRIC RANGE (50A, 125/250V, 3 POLE, 4 WIRE GROUNDING TYPE NEMA 14-50R)
- SINGLE RECEPTACLE OUTLET (30A, 250V, 2 POLE, 3 WIRE GROUNDING TYPE NEMA 6-30R)
- DUPLEX RECEPTACLE FOR MOUNTED IN CEILING (20A, 125V, 2 POLE, 3 WIRE GROUNDING TYPE NEMA 5-20R)
- TWO (2) DUPLEX RECEPTACLES MOUNTED IN DOUBLE GANG BACKBOX (20A, 125V, 2 POLE, 3 WIRE GROUNDING TYPE NEMA 5-20R)
- TWO (2) DUPLEX RECEPTACLES FLOOR MOUNTED IN DOUBLE GANG BACKBOX (20A, 125V, 2 POLE, 3 WIRE GROUNDING TYPE NEMA 5-20R)

LIGHT FIXTURES

- LIGHT FIXTURE, FLUORESCENT, CEILING MOUNTED.
- LIGHT FIXTURE, FLUORESCENT, CEILING MOUNTED ON EMERGENCY CIRCUIT.
- LIGHT FIXTURE, FLUORESCENT, CEILING MOUNTED WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.
- LIGHT FIXTURE, FLUORESCENT, WALL MOUNTED.
- LIGHT FIXTURE, FLUORESCENT, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED.
- LIGHT FIXTURE, FLUORESCENT, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.
- LIGHT FIXTURE, INCANDESCENT, FLUORESCENT OR H.I.D., CEILING MOUNTED. (REFER TO FIXTURE SCHEDULE FOR TYPE).
- LIGHT FIXTURE, INCANDESCENT, FLUORESCENT OR H.I.D., CEILING MOUNTED ON EMERGENCY CIRCUIT.
- LIGHT FIXTURE, INCANDESCENT, FLUORESCENT OR H.I.D., CEILING MOUNTED WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.
- LIGHT FIXTURE, INCANDESCENT, FLUORESCENT OR H.I.D., WALL MOUNTED. (REFER TO FIXTURE SCHEDULE FOR TYPE).
- EMERGENCY BATTERY POWERED LIGHTING UNIT, WITH SELF CONTAINED BATTERY, CHARGER, ETC. (REFER TO FIXTURE SCHEDULE FOR BATTERY TYPE, VOLTAGE, LAMP TYPE, WATTAGE, ETC.) TRIANGLES DEPICT QUANTITY AND AIMING OF LAMP HEADS.
- EXIT SIGN, LIGHTED, CEILING MOUNTED. SHADED AREA INDICATES FACE. ARROW DEPICTS DIRECTIONAL ARROW ON SIGN. WHEN REQUIRED BY THE FIXTURE SCHEDULE, AN EMERGENCY SELF-CONTAINED BATTERY PACK IS TO REMAIN UNSWITCHED.
- EXIT SIGN, LIGHTED, WALL MOUNTED AT 7'-0" AFF UNLESS INDICATED OTHERWISE. WHEN REQUIRED BY THE FIXTURE SCHEDULE, AN EMERGENCY SELF-CONTAINED BATTERY PACK IS TO REMAIN UNSWITCHED.
- FLOOD LIGHT. ARROW INDICATES DIRECTION OF BEAM.
- DOCK LIGHT
- LIGHT FIXTURE IDENTIFICATION SYMBOL. THIS SYMBOL MAY BE USED ON LIGHTING FLOOR PLANS TO IDENTIFY THE FIXTURE TYPE IN A ROOM OR SPACE IN LIEU OF AN UPPER CASE LETTER BESIDE EACH FIXTURE. SUPERSCRIPIT INDICATES QUANTITY. SUBSCRIPT INDICATES MOUNTING HEIGHT.

SWITCHES (MOUNTED AT 46", UNLESS INDICATED OTHERWISE)

- SWITCH, SINGLE POLE, 20A; LOWER CASE LETTER INDICATES DEVICES CONTROLLED.
- SWITCH, DOUBLE POLE, 20A
- SWITCH, 3-WAY, 20A
- SWITCH, 4-WAY, 20A
- SWITCH, KEY OPERATED, SINGLE POLE
- SWITCH, WITH PILOT LIGHT, SINGLE POLE
- MANUAL MOTOR STARTING SWITCH, WITH THERMAL OVERLOAD ELEMENT AND PROVISIONS FOR LOCKING OPEN
- SWITCH, DIMMING (ON FLUORESCENT FIXTURES, COORDINATE WITH BALLAST MANUFACTURER)
- SWITCH, MULLION
- SWITCH, LOW VOLTAGE WITH MOMENTARY CONTACTS
- SWITCH, OCCUPANCY SENSOR, ULTRASONIC
- SWITCH, OCCUPANCY SENSOR, PASSIVE INFRARED

MULTIPLE DEVICES LOCATED SIDE BY SIDE (OR ABOVE AND BELOW, IF DIFFERENT ELEVATIONS ARE SHOWN) AT THE LOCATION INDICATED.)

ELECTRICAL SYMBOLS

TELEPHONE/COMMUNICATIONS/DATA (OUTLETS SHALL BE MOUNTED 18" AFF UNLESS INDICATED OTHERWISE)

- TELEPHONE OUTLET. OUTLET BOX WITH 3/4" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD. SUBSCRIPT: W - WALL MOUNTED AT 54" AFF; P - PAY TELEPHONE MOUNTED 48" AFF TO COIN SLOT.
- TELEPHONE FLOOR OUTLET. OUTLET BOX WITH 3/4" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD
- INTERCOMMUNICATION OUTLET. OUTLET BOX WITH 3/4" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD. SUBSCRIPT: W - WALL MOUNTED AT 54" AFF.
- INTERCOMMUNICATION FLOOR OUTLET. OUTLET BOX WITH 3/4" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD
- DATA OUTLET. OUTLET BOX WITH 3/4" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD.
- DATA FLOOR OUTLET. OUTLET BOX WITH 3/4" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND PULL CORD
- 4'-0" HIGH x 3/4" THICK VARNISHED PLYWOOD BACKBOARD. SEE PLANS FOR LENGTH.
- PAGING DEVICES**
- LOUDSPEAKER OUTLET, DIRECTIONAL. SUBSCRIPT "V" DENOTES VOLUME CONTROL.
- LOUDSPEAKER OUTLET, DIRECTIONAL. SUBSCRIPT "V" DENOTES VOLUME CONTROL. WALL MOUNTED
- LOUDSPEAKER OUTLET, BI-DIRECTIONAL, SURFACE MOUNTED. SUBSCRIPT "V" DENOTES VOLUME CONTROL.
- LOUDSPEAKER OUTLET, CEILING MOUNTED. SUBSCRIPT "V" DENOTES VOLUME CONTROL.
- SPEAKER VOLUME CONTROL

SECURITY

- MAGNETIC ALARM SWITCH
- DURESS ALARM SWITCH
- MOTION DETECTOR
- CAPACITIVE DETECTOR
- CCTV CAMERA LOCATION, CEILING MOUNTED UNLESS INDICATED OTHERWISE
- KEYPAD ACCESS ALARM OVERRIDE CONTROL
- ELECTRIC PUSH-BUTTON
- CARD READER

SINGLE LINE

- CIRCUIT BREAKER, TRIP RATING AS INDICATED, 3 POLE OR AS INDICATED.
- DISCONNECT SWITCH OR LOAD INTERRUPTER SWITCH, CURRENT RATING AS INDICATED, 3 POLE OR AS INDICATED.
- SWITCH WITH GROUND FAULT INTERRUPTER
- FUSE, CURRENT RATING AND TYPE WHEN INDICATED.
- TRANSFORMER, DESCRIPTION AS NOTED OR PER SCHEDULE
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- PHASE SELECTOR SWITCH
- AMMETER
- VOLT METER
- WATT-HOUR METER

ELECTRICAL SYMBOLS

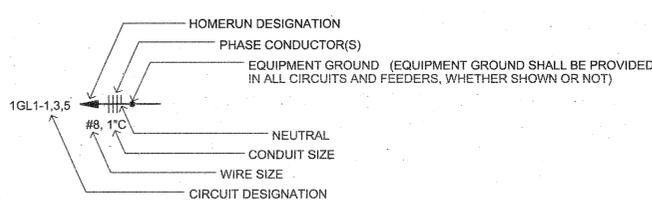
FIRE ALARM (DEVICES WITH VISUAL STROBES SHALL BE MOUNTED 80" AFF TO BOTTOM OF DEVICE OR 6" BELOW THE CEILING TO TOP OF DEVICE, WHICH EVER IS LESS)

- FIRE ALARM MANUAL PULL STATION, 48" AFF
- FIRE ALARM BELL WITH VISUAL STROBE
- FIRE ALARM HORN WITH VISUAL STROBE
- FIRE ALARM CHIME WITH VISUAL STROBE
- FIRE ALARM VISUAL STROBE
- FIRE ALARM SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED UNLESS INDICATED OTHERWISE. SUBSCRIPTS: "A" - ABOVE CEILING; "U" - UNDER RAISED FLOOR
- FIRE ALARM SMOKE DETECTOR, LOCATED IN THE SUPPLY AIR DUCT.
- FIRE ALARM SMOKE DETECTOR, LOCATED IN THE RETURN AIR DUCT.
- FIRE ALARM HEAT DETECTOR, RATE OF RISE TYPE, CEILING MOUNTED UNLESS INDICATED OTHERWISE. SUBSCRIPT "F" DENOTES FIXED TEMPERATURE TYPE
- FIRE ALARM FLOW SWITCH IN SPRINKLER PIPING SYSTEM. (FURNISHED UNDER THE FIRE SUPPRESSION SECTION OF THE SPECIFICATIONS)
- FIRE ALARM VALVE TAMPER SWITCH. (FURNISHED UNDER THE FIRE SUPPRESSION SECTION OF THE SPECIFICATIONS)
- FIRE ALARM PRESSURE SWITCH IN SPRINKLER RISER. (FURNISHED UNDER THE FIRE SUPPRESSION SECTION OF THE SPECIFICATIONS)
- FIRE ALARM DOOR HOLD OPEN MECHANISM. (FURNISHED UNDER DOOR HARDWARE SECTION OF THE SPECIFICATIONS).
- SWITCHGEAR**
- MAGNETIC MOTOR STARTER (FURNISHED BY DIVISION 15, UNLESS NOTED OTHERWISE)
- ELECTRICAL PANELBOARD, FLUSH MOUNTED
- ELECTRICAL PANELBOARD, SURFACE MOUNTED
- SAFETY SWITCH; 30A CURRENT RATING UNLESS NOTED OTHERWISE. +4'-0" TO HANDLE
- FUSIBLE SAFETY SWITCH; CURRENT RATING AND FUSE RATING NOTED. +4'-0" TO HANDLE.
- CIRCUIT BREAKER IN WALL MOUNTED ENCLOSURE
- ELECTRICAL TRANSFORMER. FLOOR MOUNTED UNLESS INDICATED OTHERWISE.
- MISCELLANEOUS**
- JUNCTION BOX. WALL MOUNT AS INDICATED. FINAL CONNECTION TO BE MADE BY ELECTRICAL CONTRACTOR.
- CLOCK OUTLET. WALL MOUNTED 7'-6" AFF
- MOTOR
- 10' BARE #6 COILED & EXOTHERMICALLY WELDED TO COLUMN
- CABLE TELEVISION OUTLET BOX MOUNTED 18" AFF WITH CONDUIT STUBBED ABOVE CEILING. PROVIDE PULL CORD.
- CONDUIT RUN, EXPOSED
- CONDUIT RUN, CONCEALED
- FLEXIBLE CONDUIT
- CIRCUIT INFORMATION**
- HOMERUN DESIGNATION
- PHASE CONDUCTOR(S)
- EQUIPMENT GROUND (EQUIPMENT GROUND SHALL BE PROVIDED IN ALL CIRCUITS AND FEEDERS, WHETHER SHOWN OR NOT)
- NEUTRAL
- CONDUIT SIZE
- WIRE SIZE
- CIRCUIT DESIGNATION

MISCELLANEOUS

- JUNCTION BOX. WALL MOUNT AS INDICATED. FINAL CONNECTION TO BE MADE BY ELECTRICAL CONTRACTOR.
- CLOCK OUTLET. WALL MOUNTED 7'-6" AFF
- MOTOR
- 10' BARE #6 COILED & EXOTHERMICALLY WELDED TO COLUMN
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- CONDUIT RUN, EXPOSED
- CONDUIT RUN, CONCEALED
- FLEXIBLE CONDUIT

CIRCUIT INFORMATION



- CIRCUIT DESIGNATION INDICATES PANELBOARD AND CIRCUIT(S) TO WHICH HOMERUN IS CONNECTED.
- WIRE SIZE SHALL BE NO. 12, UNLESS INDICATED OTHERWISE.
- CONDUIT SIZE SHALL BE MINIMUM ALLOWED BY SPECIFICATIONS FOR NO. 12 SIZE WIRE, 3/4" FOR NO. 10, UNLESS INDICATED OTHERWISE.
- CIRCUIT INFORMATION PROVIDED AT THE HOMERUN SYMBOL SHALL APPLY THE ENTIRE LENGTH OF THE CIRCUIT (FROM PANELBOARD TO LAST LOAD).
- WHEN NO PHASE CONDUCTOR OR NEUTRAL IS INDICATED AT THE HOMERUN SYMBOL, PROVIDE ONE PHASE CONDUCTOR AND ONE NEUTRAL, BOTH NO. 12.
- SWITCHING CONDUCTORS, CONDUCTORS FOR NIGHT LIGHT CIRCUITS (UNSWITCHED), ETC. ARE NOT SHOWN, BUT SHALL BE PROVIDED AS NECESSARY.
- WIRE SIZE INDICATED ON THESE DOCUMENTS AS INDICATED BY "NO." OR "W" HAS THE SAME MEANING AS "AWG" (N.E.C. NOMENCLATURE). (i.e. "NO. 12" OR "W12" MEANS "12AWG" IN N.E.C. NOMENCLATURE.)

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER & CAT. NO.	VOLTS	LAMP(S)	REMARKS
A	COOPER RSA #CQW-W-23-A OR APPROVED EQUAL	120	2-39W PAR30MH	ROTATED OPTICS
B	COOPER RSA #CQW-23-B-S OR APPROVED EQUAL	120	4-39W PAR30MH	COLOR - SILVER
C	BETA-CALCO #20 2205-2-X-RG OR APPROVED EQUAL	277	1-150 W MH	BACK TO BACK WITH DECORATIVE RING
D	COOPER METALUX #SSL-132-277-EB81 OR APPROVED EQUAL	277	1-F032T8/SP35	COVE LIGHT
E	ASTRALITE #DCA-300-24-BA-NC OR APPROVED EQUAL	277	2-5W	SEMI RECESSED EMERGENCY LIGHT WITH BATTERY BACKUP
F	COOPER #PM633CB-39-AL-277-AR60S-XX-2-277-277-IS OR APPROVED EQUAL	277	1-39W PAR30MH	CLOSED BACK FIXTURE FOR 60 AMP BUSWAY
G	COOPER AMETRIX #VS-SO-P-1-E070-277-S-X OR APPROVED EQUAL	277	1-70W MH	WALL MOUNTED
H	COOPER METALUX #IC-232-277V-EB81 OR APPROVED EQUAL	277	2-F032T8/SP35	4' INDUSTRIAL CHAIN HUNG
J	COOPER INVUE #ENT-70-MH-277-EB-FM-GM OR APPROVED EQUAL	277	1-70W MH	WALL MOUNTED
K	COOPER METALUX #CR-232A-277V-EB81 OR APPROVED EQUAL	277	2-F032T8/SP35	4' LENSED STRIP
L	NEMO #902-HHS-MH1 50-277-NBZ-NBZ-36 OR APPROVED EQUAL	277	1-39W MH	BOLLARD
M	COOPER INVUE #STS-175MH-MT-5S-GM-STR WITH VA1057 ARM OR APPROVED EQUAL	277	1-175W MH	POLE MOUNTED FIXTURE
N	HESS NOVARA #NVA50S-P-250M-7-B-15RS-SC-LP OR APPROVED EQUAL	277	1-250W MH	POLE MOUNTED FIXTURE
O	TMS #Q08520 OR APPROVED EQUAL	277	1-42W CFL	CAFE FIXTURE - PENDANT
P	DABMAR #LV-LED640 OR APPROVED EQUAL	277	LED	EXTERIOR WALL MOUNTED STEP LIGHT
Q	COOPER HALO #H2741C-73P OR APPROVED EQUAL	277	1-130TT 2PIN	RECESSED CAN LIGHT
R	TBD	277	TBD	WALL MOUNTED UP LIGHT
S	ASTRALITE #ELX-UNVRC-1-RC-BA-EM OR APPROVED EQUAL	277	LED	EXIT SIGN WITH EMERGENCY BATTERY PACK. ARROWS AND FACES PER PLANS. WALL OR CEILING MOUNT AS INDICATED.

LIGHT FIXTURE SCHEDULE NOTES:
1. VERIFY ALL FINISHES WITH ARCHITECT.
2. EQUAL FIXTURES MUST HAVE SAME APPEARANCE AND PERFORMANCE TO BE CONSIDERED.

ABBREVIATIONS:

- GFI = GROUND FAULT INTERRUPTER
- IG = ISOLATED GROUND
- WP = WEATHERPROOF CONSTRUCTION
- UIO = UNLESS INDICATED OTHERWISE
- AFF = ABOVE FINISHED FLOOR
- AFL = ABOVE FINISHED LANDING

GENERAL SYMBOLS NOTES:

1. ALL SYMBOLS MAY NOT BE USED.
2. MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR OR GRADE TO THE CENTER LINE OF THE OUTLET, DEVICE, ETC. UNLESS INDICATED OTHERWISE.
3. LARGE AMPACITY CIRCUIT DESIGNATION EXAMPLE: "4 SETS OF 3#500, #250N, #1/0G, 4" C MEANS IN EACH OF FOUR 4" CONDUITS INSTALL THREE 500 KCM CONDUCTORS, ONE 250 KCM NEUTRAL AND ONE #1/0 GROUND.



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CAMBRIDGE SEVEN ASSOCIATES
- INTERIOR DESIGNER:
POLK STANLEY ROWLAND
CURZON PORTER ARCHITECTS
- GENERAL CONTRACTOR:
CDI CONTRACTORS, INC.

NOTES:

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REVISIONS

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Project 431E
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REGISTERED PROFESSIONAL ENGINEER
STATE OF ARKANSAS
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PSRCP JOB NUMBER:
431E

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