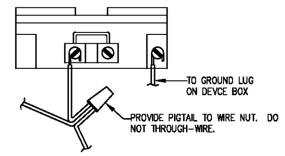
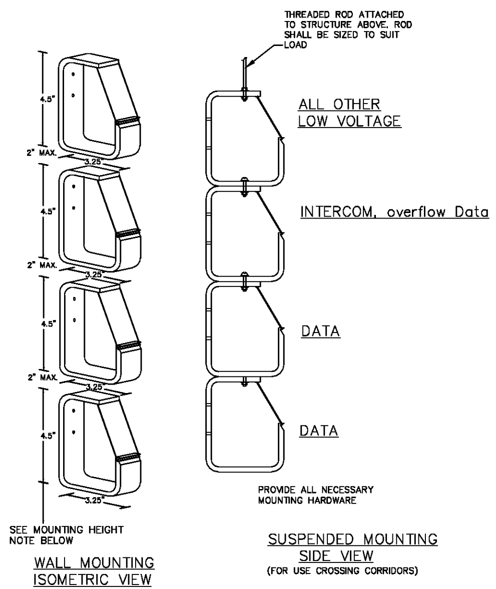


TYPICAL MULTI-WIRE BRANCH CIRCUIT RECEPTACLE DETAIL

1 E5-01 NO SCALE



MONO-SYSTEMS, INC. MODELS H-433-S STEEL CABLE HANGERS. MOUNT ON STUD/WALL AS SHOWN.

INTERCOM CABLING SHALL BE RUN IN DESIGNATED CABLE HANGER

LOW VOLTAGE SYSTEM CABLING INCLUDING EMS SYSTEM, SECURITY/CCTV SYSTEMS AND FIRE ALARM CABLING, SHALL BE RUN IN UPPER CABLE HANGER.

DATA CABLING SHALL BE RUN IN LOWER TWO HANGERS

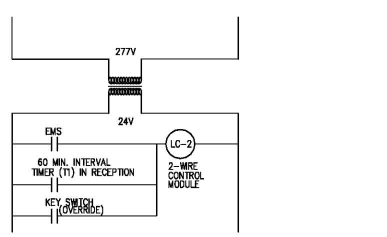
HANGERS SHALL BE MOUNTED 2' ON CENTER ALONG ENTIRE LENGTH OF CORRIDORS AS SHOWN. WHERE SINGLE CABLES CROSS CORRIDOR, SUSPEND FROM STRUCTURE USING PLENUM RATED CABLE TIES.

APPROVED EQUAL PRODUCTS AS MANUFACTURED BY ATLAS, ERICO, PANDUIT OR SOUTHERN SPECIALTIES ARE ACCEPTABLE.

MOUNTING HEIGHTS: CABLE HANGERS SHALL BE MOUNTED TIGHT TO THE BOTTOM OF STRUCTURE. COORDINATE INSTALLATION WITH OTHER TRADES.

CABLE HANGER DETAIL

2 E5-01 NO SCALE



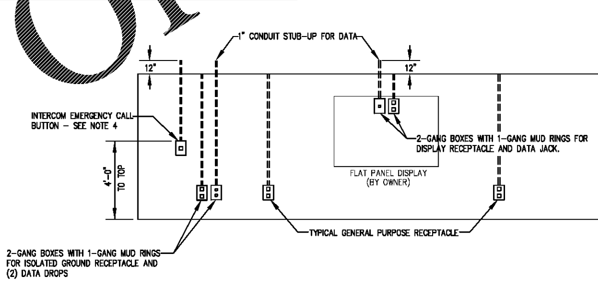
EMERGENCY LIGHTING CONTACTOR SHALL BE ASCO 917207IC-47E, 20A, 277V, MECHANICALLY HELD LIGHTING CONTACTOR WITH 24V, 2-WIRE CONTROL MODULE. PROVIDE 24V CONTROL TRANSFORMER AND NEMA 1 ENCLOSURE. BREAK CIRCUITS INDICATED ON PLANS THROUGH CONTACTS. INSTALL LAMINATED PLASTIC NAMEPLATE ON COVERS READING "EMERGENCY LIGHTING CONTACTOR".

INSTALL KEY SWITCH ON WALL BESIDE CONTACTOR.

INTERVAL TIMER (T1) SHALL BE A MARKTIME 90.007 0-6HOUR, NO HOLD, OFF TYPE, INSTALLED IN RECEPTION 2.103. INSTALL PLASTIC LAMINATE NAMEPLATE ON WALL ABOVE TIMER READING "EMERGENCY LIGHTING". ROUTE CONTROL WIRING IN CONDUIT FROM THE SWITCH TO THE CONTACTORS.

EMERGENCY LIGHTING CONTACTOR CE-1 CONTROL DIAGRAM

3 E5-01 NO SCALE



TYPICAL FRONT OF CLASSROOM ELEVATION

4 E5-01 NO SCALE

CLASSROOM ELEVATION NOTES:

1. SEAL ALL CONDUITS WITH DUCT TAPE OR EQUIVALENT TO PREVENT DEBRIS FROM ENTERING THE RACEWAYS. TERMINATE STUB-UPS WITH INSULATING BUSHINGS.
2. CONDUIT STUB-UPS SHALL EXTEND 12" ABOVE THE CEILING, AND BE TURNED INTO THE CLASSROOM.
3. MUD RINGS SHALL BE INSTALLED FLUSH TO THE WALL SURFACE.
4. COORDINATE LOCATION OF CALL BUTTON WITH MARKER BOARDS ON THE FRONT WALL.

LIGHTING FIXTURE SCHEDULE

A1– 16-FOOT SUSPENDED LINEAR LED FIXTURE, RECTANGULAR CROSS SECTION, ROLLED STEEL HOUSING, ACRYLIC DIFFUSER, DIRECT/INDIRECT LIGHTING WITH 20 UP/80 DOWN, 1300 LUMENS PER FOOT, 3500K, CONSTANT CURRENT DIMMING TO 1-PERCENT, 0-10 VOLT INPUT, 277 VOLTS, 18' AIRCRAFT CABLE SUSPENSION (UNLESS OTHERWISE NOTED ON THE PLANS). FINISH AS SPECIFIED BY ARCHITECT. LITHONIA GRD LSL 16FT MSL8 80CRI 35K ID1300LMF 20/80 MIN1 ZT 277 SCT F1/18F OR PRIOR APPROVED EQUAL. FIXTURE SHALL BE FULLY COMPATIBLE WITH ACUITY NLIGHT CONTROL SYSTEM.

A2– 16-FOOT SUSPENDED LINEAR LED FIXTURE, RECTANGULAR CROSS SECTION, ROLLED STEEL HOUSING, ACRYLIC DIFFUSER, DIRECT/INDIRECT LIGHTING WITH 20 UP/80 DOWN, 1300 LUMENS PER FOOT, 3500K, CONSTANT CURRENT DIMMING TO 1-PERCENT, 0-10 VOLT INPUT, ONBOARD PHOTOCELL AND RELAY POWER PACK FOR DAYLIGHT DIMMING, NLIGHT ENABLED, 277 VOLTS, 18' AIRCRAFT CABLE SUSPENSION. FINISH AS SPECIFIED BY ARCHITECT. LITHONIA GRD LSL 16FT MSL8 80CRI 35K ID1300LMF 20/80 MIN1 NLIGHT 277 SCT ADC F1/18F OR PRIOR APPROVED EQUAL. FIXTURE SHALL BE FULLY COMPATIBLE WITH ACUITY NLIGHT CONTROL SYSTEM.

A3– 8-FOOT SUSPENDED LINEAR LED FIXTURE, RECTANGULAR CROSS SECTION, ROLLED STEEL HOUSING, ACRYLIC DIFFUSER, DIRECT/INDIRECT LIGHTING WITH 20 UP/80 DOWN, 1300 LUMENS PER FOOT, 3500K, CONSTANT CURRENT DIMMING TO 1-PERCENT, 0-10 VOLT INPUT, 277 VOLTS, 18' AIRCRAFT CABLE SUSPENSION (UNLESS OTHERWISE NOTED ON THE PLANS). FINISH AS SPECIFIED BY ARCHITECT. LITHONIA GRD LSL 8FT MSL8 80CRI 35K ID1300LMF 20/80 MIN1 ZT 277 SCT F1/18F OR PRIOR APPROVED EQUAL. FIXTURE SHALL BE FULLY COMPATIBLE WITH ACUITY NLIGHT CONTROL SYSTEM.

A4– 8-FOOT SUSPENDED LINEAR LED FIXTURE, RECTANGULAR CROSS SECTION, ROLLED STEEL HOUSING, ACRYLIC DIFFUSER, DIRECT/INDIRECT LIGHTING WITH 20 UP/80 DOWN, 1300 LUMENS PER FOOT, 3500K, CONSTANT CURRENT DIMMING TO 1-PERCENT, 0-10 VOLT INPUT, ONBOARD PHOTOCELL AND RELAY POWER PACK FOR DAYLIGHT DIMMING, NLIGHT ENABLED, 277 VOLTS, 18' AIRCRAFT CABLE SUSPENSION. FINISH AS SPECIFIED BY ARCHITECT. LITHONIA GRD LSL 8FT MSL8 80CRI 35K ID1300LMF 20/80 MIN1 NLIGHT 277 SCT ADC F1/18F OR PRIOR APPROVED EQUAL. FIXTURE SHALL BE FULLY COMPATIBLE WITH ACUITY NLIGHT CONTROL SYSTEM.

A5– 12-FOOT SUSPENDED LINEAR LED FIXTURE, RECTANGULAR CROSS SECTION, ROLLED STEEL HOUSING, ACRYLIC DIFFUSER, DIRECT/INDIRECT LIGHTING WITH 20 UP/80 DOWN, 1300 LUMENS PER FOOT, 3500K, CONSTANT CURRENT DIMMING TO 1-PERCENT, 0-10 VOLT INPUT, 277 VOLTS, 18' AIRCRAFT CABLE SUSPENSION. FINISH AS SPECIFIED BY ARCHITECT, LITHONIA GRD LSL 12FT MSL4 80CRI 35K ID1300LMF 20/80 MIN1 ZT 277 SCT F1/18F OR PRIOR APPROVED EQUAL. FIXTURE SHALL BE FULLY COMPATIBLE WITH ACUITY NLIGHT CONTROL SYSTEM.

A6– 24' SUSPENDED LINEAR LED FIXTURE, RECTANGULAR CROSS SECTION, ROLLED STEEL HOUSING, ACRYLIC DIFFUSER, DIRECT/INDIRECT LIGHTING WITH 20 UP/ 80 DOWN, 1300 LUMENS PER FOOT, 3500K, CONSTANT CURRENT DIMMING TO 1-PERCENT, 0-10 VOLT INPUT, 277 VOLTS, 18' AIRCRAFT CABLE SUSPENSION. FINISH AS SPECIFIED BY ARCHITECT. LITHONIA GRD LSL 24FT MSL8 80CRI 35K ID1300LMF 20/80 MIN1 ZT 277 SCT F1/18F OR PRIOR APPROVED EQUAL. FIXTURE SHALL BE FULLY COMPATIBLE WITH ACUITY NLIGHT CONTROL SYSTEM.

A7– 24' SUSPENDED LINEAR LED FIXTURE, RECTANGULAR CROSS SECTION, ROLLED STEEL HOUSING, ACRYLIC DIFFUSER, DIRECT/INDIRECT LIGHTING WITH 20 UP/ 80 DOWN, 1300 LUMENS PER FOOT, 3500K, CONSTANT CURRENT DIMMING TO 1-PERCENT, 0-10 VOLT INPUT, ONBOARD PHOTOCELL AND RELAY POWER PACK FOR DAYLIGHT DIMMING, NLIGHT ENABLED, 277 VOLTS, 18' AIRCRAFT CABLE SUSPENSION. FINISH AS SPECIFIED BY ARCHITECT. LITHONIA GRD LSL 24FT MSL8 80CRI 35K ID1300LMF 20/80 MIN1 NLIGHT 277 SCT ADC F1/18F OR PRIOR APPROVED EQUAL. FIXTURE SHALL BE FULLY COMPATIBLE WITH ACUITY NLIGHT CONTROL SYSTEM.

A8– 4' SUSPENDED LINEAR LED FIXTURE, RECTANGULAR CROSS SECTION, ROLLED STEEL HOUSING, ACRYLIC DIFFUSER, DIRECT/INDIRECT LIGHTING WITH 20 UP/80 DOWN, 1300 LUMENS PER FOOT, 3500K, CONSTANT CURRENT DIMMING TO 1-PERCENT, 0-10 VOLT INPUT, 277 VOLTS, 18' AIRCRAFT CABLE SUSPENSION. FINISH AS SPECIFIED BY ARCHITECT, LITHONIA GRD LSL 4FT MSL4 80CRI 35K ID1300LMF 20/80 MIN1 ZT 277 SCT F1/18F OR PRIOR APPROVED EQUAL. FIXTURE SHALL BE FULLY COMPATIBLE WITH ACUITY NLIGHT CONTROL SYSTEM.

A9– 20' SUSPENDED LINEAR LED FIXTURE RECTANGULAR CROSS SECTION, ROLLED STEEL HOUSING, ACRYLIC DIFFUSER, DIRECT/INDIRECT LIGHTING WITH 20 UP/ 80 DOWN, 1300 LUMENS PER FOOT, 3500K, CONSTANT CURRENT DIMMING TO 1-PERCENT, 0-10 VOLT INPUT, NLIGHT ENABLED, 277 VOLTS, 18' AIRCRAFT CABLE SUSPENSION. FINISH AS SPECIFIED BY ARCHITECT. LITHONIA GRD LSL 20FT MSL4 80CRI 35K ID1300LMF 20/80 MIN1 NLIGHT 277 SCT F1/18F OR PRIOR APPROVED EQUAL. FIXTURE SHALL BE FULLY COMPATIBLE WITH ACUITY NLIGHT CONTROL SYSTEM.

A10– 20' SUSPENDED LINEAR LED FIXTURE RECTANGULAR CROSS SECTION, ROLLED STEEL HOUSING, ACRYLIC DIFFUSER, DIRECT/INDIRECT LIGHTING WITH 20 UP/ 80 DOWN, 1300 LUMENS PER FOOT, 3500K, CONSTANT CURRENT DIMMING TO 1-PERCENT, 0-10 VOLT INPUT, ONBOARD PHOTOCELL AND RELAY POWER PACK FOR DAYLIGHT DIMMING, NLIGHT ENABLED, 277 VOLTS, 18' AIRCRAFT CABLE SUSPENSION. FINISH AS SPECIFIED BY ARCHITECT. LITHONIA GRD LSL 20FT MSL4 80CRI 35K ID1300LMF 20/80 MIN1 NLIGHT 277 SCT ADC F1/18F OR PRIOR APPROVED EQUAL. FIXTURE SHALL BE FULLY COMPATIBLE WITH ACUITY NLIGHT CONTROL SYSTEM.

B – 16.5" DIAMETER PENDANT, ALUMINUM SPUN SHADE, 3000 LUMENS/1 MODULE, 3500K, 0-10 VOLT DIMMING, BALLAST BOX, UNIVERSAL VOLTAGE, BOCK G12 BRUSHED ALUMINUM FINISH ON THE OUTSIDE WITH G1 WHITE FINISH ON THE INSIDE, CORD LENGTH AS REQUIRED TO SUSPEND FIXTURE TO 8'-6' AFF TO BOTTOM OF FIXTURE. BOCK TENDA17 SERIES OR PRIOR APPROVED EQUAL.

C – FOUR FOOT RECESSED LINEAR LED FIXTURE, 3" WIDTH, MATTE WHITE FINISH, FLAT SATINE LENS, 750 NOMINAL LUMENS PER FOOT, 3500K COLOR TEMPERATURE, 80 CRI, UNIVERSAL VOLTAGE, PINNACLE EDGE EV3D SERIES OR PRIOR APPROVED EQUAL.

D – EIGHT FOOT SUSPENDED LINEAR LED FIXTURE, 2" WIDTH, 8" HEIGHT, DIRECT/INDIRECT LIGHTING, TOP DIFFUSER WITH BATWING DISTRIBUTION, BOTTOM DIFFUSER WITH MICRO-STRUCTURE GLARE CONTROL, GREY FELT, AIRCRAFT CABLE SUSPENSION TO 10'-0"AFF TO BOTTOM, 720 NOMINAL LUMENS/FOOT UPLIGHT, 720 NOMINAL LUMENS/FOOT DOWNLIGHT, 3500K COLOR TEMPERATURE, UNIVERSAL VOLTAGE. LIGHTING ELEMENTS CONCORD SERIES OR PRIOR APPROVED EQUAL.

F – FOUR FOOT LED STRIP, ROLLED STEEL HOUSING, WHITE FINISH, ROUNDED ACRYLIC LENS, 5000 LUMENS, UNIVERSAL VOLTAGE, 3500K, 80 CRI, CHAIN MOUNTED IN AREAS WITH EXPOSED STRUCTURE. LITHONIA ZL1D SERIES OR PRIOR APPROVED EQUAL.

G1 – SUSPENDED LED GLOBE FIXTURE, 11" DIAMETER, 8.7" HEIGHT, MULTI-STRIP GLOBE WITH WHITE FINISH, 120 VOLTS, (1) 7W SCREW-IN LED LAMP WITH E26 BASE, 3500K COLOR TEMPERATURE, 80 CRI, ZANEEN QUEEN SUSPENSION SERIES OR PRIOR APPROVED EQUAL. SUSPEND FIXTURE TO 7'-6"AFF.

G2 – SUSPENDED LED GLOBE FIXTURE, 16.6" DIAMETER, 12.6" HEIGHT, MULTI-STRIP GLOBE WITH WHITE FINISH, 120 VOLTS, (1) 7W SCREW-IN LED LAMP WITH E26 BASE, 3500K COLOR TEMPERATURE, 80 CRI, ZANEEN QUEEN SUSPENSION SERIES OR PRIOR APPROVED EQUAL. SUSPEND FIXTURE TO 8'-6"AFF.

G3 – SUSPENDED LED GLOBE FIXTURE, 23.6" DIAMETER, 21.25" HEIGHT, MULTI-STRIP GLOBE WITH WHITE FINISH, 120 VOLTS, (2) 7W SCREW-IN LED LAMPS WITH E26 BASES, 3500K COLOR TEMPERATURE, 80 CRI, ZANEEN QUEEN SUSPENSION SERIES OR PRIOR APPROVED EQUAL. SUSPEND FIXTURE TO 8'-0"AFF.

H – EXTERIOR WALL MOUNTED LED SCONCE, MULTI-VOLT DRIVER, CAST ALUMINUM HOUSING, FULLY GASKETED DOOR FRAME, IP65 RATED, DARK BRONZE FINISH, WIDE THROW DISTRIBUTION, 3000 NOMINAL LUMENS, 4000K COLOR TEMPERATURE, UNIVERSAL VOLTAGE. LITHONIA WSQ-LED SERIES OR PRIOR APPROVED EQUAL. REFER TO ARCHITECTURAL ELEVATIONS FOR FIXTURE MOUNTING HEIGHTS.

J – SUSPENDED LED CYLINDER, 6" DIAMETER, 4" APERTURE, 10" HEIGHT, ALUMINUM HOUSING, SEMI-GLOSS WHITE TEXTURED POLYESTER POWDER COAT FINISH, CLEAR APERTURE/TRIM, AIRCRAFT CABLE SUSPENSION TO 21'-0"AFF TO BOTTOM OF FIXTURE, 3000 NOMINAL LUMENS, 80CRI, 3500K COLOR TEMPERATURE, 35-DEGREE BEAM ANGLE, MULTI-VOLT. GOTHAM INCITO 4 SERIES OR PRIOR APPROVED EQUAL.

J1– SUSPENDED LED CYLINDER, 6" DIAMETER, 4" APERTURE, 10" HEIGHT, ALUMINUM HOUSING, SEMI-GLOSS WHITE TEXTURED POLYESTER POWDER COAT FINISH, CLEAR APERTURE/TRIM, AIRCRAFT CABLE SUSPENSION TO 21'-0"AFF TO BOTTOM OF FIXTURE, 1500 NOMINAL LUMENS, 80CRI, 3500K COLOR TEMPERATURE, 65-DEGREE BEAM ANGLE, MULTI-VOLT. GOTHAM INCITO 4 SERIES OR PRIOR APPROVED EQUAL.

J2– SUSPENDED LED CYLINDER, 6" DIAMETER, 4" APERTURE, 10" HEIGHT, ALUMINUM HOUSING, SEMI-GLOSS WHITE TEXTURED POLYESTER POWDER COAT FINISH, CLEAR APERTURE/TRIM, AIRCRAFT CABLE SUSPENSION TO 21'-0"AFF TO BOTTOM OF FIXTURE, 2000 NOMINAL LUMENS, 80CRI, 3500K COLOR TEMPERATURE, 40-DEGREE BEAM ANGLE, MULTI-VOLT. GOTHAM INCITO 4 SERIES OR PRIOR APPROVED EQUAL.

K – LED RECESSED DOWNLIGHT, 6" SQUARE APERATURE, PRISMATIC LENS, 277 VOLTS, 3000 NOMINAL LUMENS, 3500K. ATLANTIC LIGHTING LED6SQ-DLM30-35K-2-LSQ6621 OR PRIOR APPROVED EQUAL.

L – EXTERIOR LED SURFACE MOUNTED CANOPY FIXTURE, 13.5" SQUARE, 2.5" DEPTH, 20 GAUGE STEEL HOUSING, GASKETTED BACK HOUSING, STAINLESS STEEL FASTENERS, SIDE KNOCK-OUTS, CAMARO SILVER BAKED POWDER COAT FINISH, .125" CLEAR PRISMATIC POLYCARBONATE LENS, WET LOCATION, MULTI-VOLT DRIVER, 3000 NOMINAL LUMENS, 4000K COLOR TEMPERATURE. LA LIGHTING BCL200 SERIES OR PRIOR APPROVED EQUAL.

M1– LED RECESSED DOWNLIGHT, 6" ROUND APERATURE, UNIVERSAL VOLTAGE, 0-10 VOLT DIMMING TO 10-PERCENT, CLEAR SEMISPECULAR REFLECTOR, INTEGRAL FLANGE, 4500 NOMINAL LUMENS, 3500K, MEDIUM WIDE DISTRIBUTION. GOTHAM EVO SERIES OR PRIOR APPROVED EQUAL.

M2– LED RECESSED DOWNLIGHT, 6" ROUND APERATURE, UNIVERSAL VOLTAGE, 0-10 VOLT DIMMING TO 10-PERCENT, CLEAR SEMISPECULAR REFLECTOR, INTEGRAL FLANGE, 3000 NOMINAL LUMENS, 3500K, MEDIUM WIDE DISTRIBUTION. GOTHAM EVO SERIES OR PRIOR APPROVED EQUAL.

M3– LED RECESSED DOWNLIGHT, 6" ROUND APERATURE, UNIVERSAL VOLTAGE, 0-10 VOLT DIMMING TO 10-PERCENT, CLEAR SEMISPECULAR REFLECTOR, INTEGRAL FLANGE, 1500 NOMINAL LUMENS, 3500K, WIDE DISTRIBUTION. GOTHAM EVO SERIES OR PRIOR APPROVED EQUAL.

N – TWO FOOT BY FOUR FOOT RECESSED ARCHITECTURAL LED TROFFER, ROLLED STEEL HOUSING, PAINTED WHITE AFTER FABRICATION, DR ACRYLIC LINEAR PRISMATIC CENTER DIFFUSER. 0-10 VOLT DIMMING TO 1-PERCENT, 4800 NOMINAL DELIVERED LUMENS, 3500K. LITHONIA 2VTL4 SERIES OR PRIOR APPROVED EQUAL.

N1– TWO FOOT BY FOUR FOOT RECESSED ARCHITECTURAL LED TROFFER, ROLLED STEEL HOUSING, PAINTED WHITE AFTER FABRICATION, DR ACRYLIC LINEAR PRISMATIC CENTER DIFFUSER. 0-10 VOLT DIMMING TO 1-PERCENT, 3000 NOMINAL DELIVERED LUMENS, 3500K. LITHONIA 2VTL4 SERIES OR PRIOR APPROVED EQUAL.

N2– TWO FOOT BY FOUR FOOT RECESSED ARCHITECTURAL LED TROFFER, ROLLED STEEL HOUSING, PAINTED WHITE AFTER FABRICATION, DR ACRYLIC LINEAR PRISMATIC CENTER DIFFUSER. 0-10 VOLT DIMMING TO 1-PERCENT, 4000 NOMINAL DELIVERED LUMENS, 3500K. LITHONIA 2VTL4 SERIES OR PRIOR APPROVED EQUAL.

P – BRACKET MOUNTED LED FIXTURE, ASYMMETRIC PROFILE, ADJUSTABLE AIMING, EXTRUDED ALUMINUM HOUSING WITH CAST ALUMINUM END CAPS, FINISH PER ARCHITECT, WHITE REFLECTORS, CLEAR FLAT DUST COVER LENS, 8-FOOT LENGTH, 0-10V DIMMING, 13,631 DELIVERED LUMENS, 3500K COLOR TEMPERATURE, UNIVERSAL VOLTAGE. SPI ECHO VELOCITY EIC11918 SERIES OR PRIOR APPROVED EQUAL.

Q – PENDANT MOUNTED ALUMINUM LED CYLINDER, 9" DIAMETER WITH 7.25" APERATURE, 13" HEIGHT, CLEAR SPECULAR REFLECTOR, MATTE BLACK FINISH, UNIVERSAL VOLTAGE, 0-10V LINEAR DIMMING TO 1%, 5500 NOMINAL LUMENS, 3500K, MEDIUM FLOOD DISTRIBUTION. PROVIDE PENDANT LENGTH AS REQUIRED TO MOUNT FIXTURES AT HEIGHT DIRECTED BY ARCHITECT. JUNO LC8P SERIES OR PRIOR APPROVED EQUAL.

Q1– PENDANT MOUNTED ALUMINUM LED CYLINDER, 9" DIAMETER WITH 7.25" APERATURE, 13" HEIGHT, CLEAR SPECULAR REFLECTOR, WHITE FINISH, UNIVERSAL VOLTAGE, 0-10V LINEAR DIMMING TO 1%, 5500 NOMINAL LUMENS, 3500K, WIDE FLOOD DISTRIBUTION. PENDANT MOUNT FIXTURES SO THAT THE BOTTOMS ARE EVEN WITH THE TYPE "U" CAFETERIA FIXTURES AND CLOUDS. JUNO LC8P SERIES OR PRIOR APPROVED EQUAL.

R – SUSPENDED LED WALL WASH FIXTURE, EIGHT FOOT LENGTH, VERTICAL LIGHT GUIDE OPTICAL SYSTEM, EXTRUDED ALUMINUM HOUSING WITH DIE-CAST ALUMINUM END CAPS, ACRYLIC LENS, MICROGROOVE ALUMINUM SHIELDING, AIRCRAFT CABLE SUSPENSION, UNIVERSAL VOLTAGE, 0-10V DIMMING, 500 LUMENS PER FOOT, 80 CRI, 3500K, FINISH AS SPECIFIED BY ARCHITECT. AXIS WALL WASH PERFEKT OR PRIOR APPROVED EQUAL. MOUNT FIXTURE 24" OFF OF WALL AND SUSPEND TO HEIGHT DIRECTED BY ARCHITECT. AIM AS DIRECTED.

T – SUSPENDED FABRIC DRUM FIXTURE, LED, 30" DIAMETER, " HEIGHT, ARMOR COLOR FELT SHADE, MULTIPLE AIRCRAFT CABLE SUSPENSION TO 16'-0"AFF, WHITE CORD, 80 CRI, 3500K TEMPERATURE, 2200 DELIVERED LUMENS, 277 VOLTS. LIGHTART ACOUSTIC DRUM SERIES OR PRIOR APPROVED EQUAL.

T1– SUSPENDED FABRIC DRUM FIXTURE, LED, 44" DIAMETER, 48" HEIGHT, FELT SHADE, MULTIPLE AIRCRAFT CABLE SUSPENSION TO 16'-0"AFF, WHITE CORD, 80 CRI, 3500K TEMPERATURE, 3350 DELIVERED LUMENS, 277 VOLTS. LIGHTART ACOUSTIC DRUM SERIES OR PRIOR APPROVED EQUAL.

U – SUSPENDED CIRCULAR LED FIXTURE, 34" DIAMETER, 4.9" HEIGHT, METALLIC SILVER EXTRUDED ALUMINUM HOUSING, HIGHLY REFLECTIVE WHITE DIE-FORMED REFLECTOR, FLAT SATINE LENS, CUSTOM LIGHT OUTPUT OF 7,700 NOMINAL LUMENS, NO UPLIGHT 80 CRI, 3500K TEMPERATURE, UNIVERSAL VOLTAGE, 0-10V DIMMING TO 1%, PENDANT SWIVEL MOUNTING TO 26'-0"AFF. PINNACLE FINA F36 SERIES OR PRIOR APPROVED EQUAL.

V – SUSPENDED LED FIXTURE, POLILUX MATERIAL WITH METAL HOLDER, 24" WIDTH, 16" HEIGHT, AIRCRAFT CABLE SUSPENSION TO 16'-0"AFF TO BOTTOM, 120 VOLTS, (2) E26 BASE SCREW-IN LED LAMPS, 1600 LUMENS EACH, 3500K TEMPERATURE. ZANEEN CLOUD D6 SERIES OR PRIOR APPROVED EQUAL.

W – EIGHT FOOT SUSPENDED LINEAR LED FIXTURE, 3.5" WIDTH, 5.5" HEIGHT, EXTRUDED ALUMINUM HOUSING WITH SOLID END CAPS, METALLIC SILVER FINISH, SATINE LENS, 0-10 VOLT DIMMING TO 1%, 3500K COLOR TEMPERATURE, UNIVERSAL VOLTAGE, 1000 LUMENS/FOOT, AIRCRAFT CABLE MOUNTING SO BOTTOM OF FIXTURES ARE EVEN WITH BOTTOM OF SLAT CEILING (ELEVATION VARIES, BUT +/-25'-0"AFF). PINNACLE EDGE EX3D SERIES OR PRIOR APPROVED EQUAL.

X – EXIT SIGN, SINGLE FACE, CAST ALUMINUM BODY, RED LED LAMPS AND LETTERS, DIFFUSE FACE, UNIVERSAL MOUNTING, 120/277V, KNOCK-OUT CHEVERONS TO INDICATE DIRECTION OF EGRESS. LITHONIA TLE-1 SERIES OR EQUAL BY COOPER, HUBBELL, OR COLUMBIA.

X1– EXIT SIGN, DOUBLE FACE, CAST ALUMINUM BODY, RED LED LAMPS AND LETTERS, DIFFUSE FACE, UNIVERSAL MOUNTING, 120/277V, KNOCK-OUT CHEVERONS TO INDICATE DIRECTION OF EGRESS. LITHONIA TLE-2 SERIES OR EQUAL BY COOPER, HUBBELL, OR COLUMBIA.

Y – SUSPENDED LED FIXTURE, 47" DIAMETER, 14" HEIGHT, 12 FINS WITH GREY FELT COVER, FIN STYLE B, WHITE OPAL ACRYLIC HUB WITH FROSTED CLEAR ACRYLIC TUBE, 120 VOLTS, SCREW-IN LED A-19 LAMP WITH E26 BASE, 1050 LUMENS, 3500K TEMPERATURE, AIRCRAFT CABLE SUSPENSION TO 9'-0"AFF. LIGHTART ECHO-ACOUSTIC SERIES OR PRIOR APPROVED EQUAL.

Z – 16" DIAMETER LED SUSPENDED HIGHBAY, DIFFUSE ALUMINUM REFLECTOR, ACRYLIC LENS, 30,000 NOMINAL LUMENS, UNIVERSAL VOLTAGE, 0-10V DIMMING TO 10-PERCENT, 4000K, 80 CRI, 6 FOOT CORD WITH MALE CAST HOOK, NO PLUG, WIREGUARD, SAFETY CABLE. LITHONIA LIGHTING JCBL 30000LM OR PRIOR APPROVED EQUAL. PENDANT MOUNT FIXTURES SO THAT THE BOTTOMS ARE AT 27'-0" AFF.

AA– EXTERIOR RECESSED LED DOWNLIGHT, DIE-CAST ALUMINUM TRIM WITH POWDER FINISH AS DIRECTED BY ARCHITECT, DUST AND WATER JET TIGHT, INTEGRAL DRIVER, 5" DIAMETER, 2028 NOMINAL LUMENS, 80CRI, 4000K COLOR TEMPERATURE, 277 VOLTS, WIDE DISTRIBUTION. LF ILLUMINATION BULLET MINI SERIES OR PRIOR APPROVED EQUAL.

BB– ENCLOSED 4' LED STRIP, FIBERGLASS HOUSING, FROSTED SHATTER RESISTANT LENS, MEDIUM DISTRIBUTION, WET LOCATION LISTING, MEDIUM DISTRIBUTION, UNIVERSAL VOLTAGE, 12000 LUMENS, 80 CRI, 4000K. MOUNT FIXTURES EVEN WITH THE BOTTOM OF STRUCTURE. PROVIDE UNISTRUT SUPPORTS SPANNING BETWEEN JOISTS SO THAT FIXTURES CAN BE INSTALLED WHERE SHOWN ON PLANS. LITHONIA VAP SERIES OR PRIOR APPOVED EQUAL.

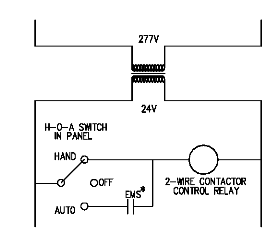
CC– WALL MOUNTED LED VAPORPROOF, DIE CAST ALUMINUM HOUSING, DIFFUSED GLASS GLOBE, 884 LUMENS, 5000K, UNIVERSAL VOLTAGE, GRAY FINISH. VIVIDLEDS VVD955SFR SERIES OR PRIOR APPROVED EQUAL.

DD– ENCLOSED 4' LED STRIP, FIBERGLASS HOUSING, FROSTED SHATTER RESISTANT LENS, WIDE DISTRIBUTION, WET LOCATION LISTING, UNIVERSAL VOLTAGE, 80 CRI, 4000 NOMINAL LUMENS, 3500K. LITHONIA VAP SERIES OR PRIOR APPOVED EQUAL.

FF– EXTERIOR LED WALL MOUNTED CYLINDER, 4-SECTION EXTRUDED ALUMINUM HOUSING, FINISH AS DIRECTED BY ARCHITECT, 8" DIAMETER, 26" HEIGHT, UP/DOWN LIGHTING, CLEAR TEMPERED GLASS LENSES, ALUMINUM REFLECTORS, 277 VOLTS, 2000 LUMENS UPLIGHTING, 2000 LUMENS DOWNLIGHTING (4000 LUMENS TOTAL), 4000K COLOR TEMPERATURE. ALUMILITE YRW-2-800 SERIES OR PRIOR APPROVED EQUAL.

FIXTURE SCHEDULE NOTES:

1. SUBMITTALS OF PROPOSED ALTERNATE LIGHTING FIXTURES AND CONTROL SYSTEMS FOR PRIOR APPROVAL MUST BE SUBMITTED NO LESS THAN TEN DAYS PRIOR TO BID. PRIOR APPROVAL SUBMITTALS SHALL INCLUDE FIXTURE AND CONTROL DEVICE CUT SHEETS WITH ALL OPTIONS CLEARLY INDICATED AS WELL AS FULL PHOTOMETRIC CALCULATIONS OF THE FOLLOWING AREAS: ONE TYPICAL CLASSROOM, ALL CORRIDORS (INCLUDING AREA "A" MAIN CORRIDORS), MEDIA CENTER, CAFETERIA/AUDITORIUM, AND GYMNASIUM.



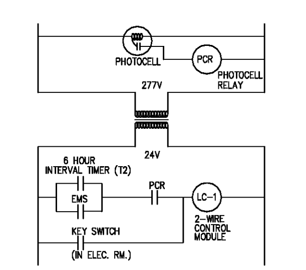
*ROUTE CONTROL WIRING IN CONDUIT FROM THE CONTACTOR TO THE BUILDING EMS SYSTEM. SEE E4-01. COORDINATE INSTALLATION WITH THE CONTROLS CONTRACTOR.

TYPICAL LIGHTING PANEL CONTACTOR WIRING DIAGRAM

5 E5-01 NO SCALE

SYMBOL LEGEND

	LIGHTING FIXTURE AS SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE
	LIGHTING FIXTURE – STRIP OR INDUSTRIAL STRIP AS SPECIFIED
	LIGHTING FIXTURE – RECESSED, SURFACE, OR PENDANT MOUNTED AS SPECIFIED
	LIGHTING FIXTURE – WALL OR BRACKET MOUNTED AS SPECIFIED
	LIGHTING FIXTURE CONNECTED TO EMERGENCY POWER SOURCE
	EXIT LIGHT WITH DIRECTIONAL CHEVRONS
	20A, 125V, 2 POLE, 3 WIRE, GROUNDING, NEMA 5-20R DUPLEX RECEPTACLE
	RECEPTACLE MOUNTED HORIZONTALLY ABOVE COUNTERTOP BACKSPLASH (NORMAL, ISOLATED GROUND, OR GFI AS INDICATED).
	20A, 125V, 2 POLE, 3 WIRE, GROUNDING, NEMA 5-20R DOUBLE DUPLEX RECEPT.
	30A, 125/250V, 3 POLE, 3 WIRE, NEMA 10-30R SINGLE REC. (DRYER OUTLET)
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
	20A, 125V DUPLEX ISOLATED GROUND OUTLET.
	20A, 125V QUAD (DOUBLE DUPLEX) ISOLATED GROUND OUTLET.
	SPECIAL OUTLET – AS INDICATED
(#)	DATA OUTLET. PROVIDE 2-GANG DEVICE BOX WITH SINGLE GANG MUD RING. NUMBER IN PARENTHESIS ADJACENT TO SYMBOL (#) INDICATES THE NUMBER OF DROPS IN THE BOX. PROVIDE DROPS COMPLETE WITH JACKS AND FACEPLATE. ROUTE CAT 6E CABLING TO THE NEAREST DATA CLOSET AND PROVIDE A 30-FOOT COIL AT STRUCTURE FOR USE BY THE OWNER.
S	TOGGLE SWITCH, SINGLE POLE
S_3	TOGGLE SWITCH, THREE-WAY
S_4	TOGGLE SWITCH, FOUR WAY
S_{PL}	TOGGLE SWITCH WITH PILOT LIGHT
S_K	TOGGLE SWITCH, KEY OPERATED
S_M	TOGGLE SWITCH, MOTOR RATED WITH THERMAL OVERLOAD ELEMENT
	120/208 VOLT PANELBOARD AS SCHEDULED
	277/480 VOLT PANELBOARD OR SWITCHBOARD AS SCHEDULED
	TELEPHONE BACKBOARD
	JUNCTION BOX
	DISCONNECT OR SAFETY SWITCH, SIZE AS INDICATED ON THE DRAWINGS
	ELECTRIC MOTOR (FAN, PUMP, ETC.)
	CONDUIT RUN UP OR DOWN
	CONDUIT, HOMERUN (CROSS MARKS = # OF CONDUCTORS WHERE MORE THAN THREE)
	CONDUIT CONCEALED OVERHEAD IN FINISHED SPACES, EXPOSED IN UNFINISHED SPACES (U.N.O.)
	CONDUIT EMBEDDED IN THE SLAB OR BELOW GRADE.
EWC	OUTLET FOR ELECTRIC WATER COOLER MOUNTED CONCEALED BEHIND UNIT
G	GROUND
EC	EMPTY CONDUIT
WP	WEATHERPROOF
RT	RAINTIGHT (NEMA 3R)
NL	NIGHT LIGHT – FIXTURE SHALL BE WIRED UNSWITCHED.
F	FIRE ALARM MANUAL STATION
A	FIRE ALARM AUDIBLE ALARM
V	FIRE ALARM VISUAL STROBE
S	FIRE ALARM SPEAKER
F	FIRE ALARM FLOW SWITCH
T	FIRE ALARM TAMPER SWITCH
S	FIRE ALARM SMOKE DETECTOR
S_D	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR
H	FIRE ALARM HEAT DETECTOR
	FIRE ALARM MAGNETIC DOOR HOLDER
S	INTERCOM PAGING SPEAKER
S_{IP}	INTERCOM SPEAKER WITH IP ADDRESSABLE MODULE
S_P	INTERCOM SPEAKER, PENDANT MOUNTED, "IP" INDICATES IP ADDRESSABLE MODULE
S_G	INTERCOM SPEAKER MOUNTED IN GWB CEILING, "IP" INDICATES IP ADDRESSABLE MODULE
S	INTERCOM SPEAKER, FLUSH WALL MOUNTED, "IP" INDICATES IP ADDRESSABLE MODULE
S	INTERCOM SPEAKER, SURFACE MOUNTED, "IP" INDICATES IP ADDRESSABLE MODULE
V	INTERCOM SPEAKER VOLUME CONTROL
M	WALL MOUNTED MICROPHONE OUTLET
	INTERCOM EMERGENCY CALL BUTTON
V	INTERCOM EMERGENCY CALL BUTTON WITH VOLUME CONTROL
A	INTERCOM SYSTEM ADMINISTRATIVE TELEPHONE OUTLET WITH TELEPHONE
	ONE PHASE CONDUCTOR
	ONE NEUTRAL CONDUCTOR
	ONE EQUIPMENT GROUNDING CONDUCTOR
	ONE ISOLATED GROUND CONDUCTOR



CONTACTOR SHALL BE 277V, MECHANICALLY HELD, WITH 24V, 2-WIRE CONTROL MODULE. PROVIDE A 24V CONTROL TRANFORMER. PROVIDE AN LAMINATED PLASTIC NAMEPLATE ON THE CONTACTOR FRONT READING "EXTERIOR LIGHTING CONTACTOR".

KEY SWITCH SHALL BE AN ARROW HART 9192 WITH 9HH41 KEY, MOUNTED ADJACENT TO THE CONTACTOR. PHOTOCELL SHALL BE PARAGON CW-201-70, 277V MOUNTED ON CONDUIT STUBBED OUT THROUGH THE EXTERIOR WALL IN A LOCATION DETERMINED BY THE ARCHITECT. RELAY SHALL HAVE 277V COIL WITH PILOT DUTY CONTACTS.

INTERVAL TIMER (T2) SHALL BE MARKTIME 90.007, 0-6 HOUR, NO HOLD, OFF TYPE, INSTALLED IN RECEPTION 2.103. INSTALL PLASTIC LAMINATE NAMEPLATE ON THE WALL ABOVE THE TIMER READING "EXTERIOR LIGHTING".

EXTERIOR LIGHTING CONTACTOR CO-1E CONTROL DETAIL

6 E5-01 NO SCALE

Smallwood, Reynolds, Stewart, Stewart & Associates, Inc. Architects
One Piedmont Center, Suite 303 3565 Piedmont Road Atlanta, Georgia 30305

REVISIONS / PRINTED

REV. NO.	DATE	REMARKS
	08/16/19	GDOE Check Set
	10/01/19	ISSUED FOR BID/ PERMIT/GDOE

PROJECT SUMMARY
NAME: JH HOUSE ELEMENTARY SCHOOL
GRADES: PRE-K THRU 5TH
F.T.E.: 800
G.D.O.E. #: TO BE ASSIGNED

BUILDING AREA

LEVEL 01	71,152 SF
LEVEL 02	37,379 SF
TOTAL	108,531 SF

COVERED AREAS (I.E. CANOPIES)

COVERED AREAS	5,186 SF
DIVIDE (÷) BY 2	÷2
TOTAL	2,593 SF

INSTRUCTIONAL UNITS

REGULAR CLASSROOMS	45
PAIRED FLEX AREAS	2
MUSIC	1
PHYSICAL EDUCATION	1
MEDIA CENTER	1
ART	1
TOTAL	51

RCPS

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LEGEND, FIXTURE SCHEDULE, AND DETAILS

J.H. HOUSE ELEMENTARY SCHOOL
3100 Zingara Road NE, Conyers, GA 30012

DATE 10-01-2019
JOB NO. 218036.00
SHEET NO. E5-01

ISSUED FOR CONSTRUCTION

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