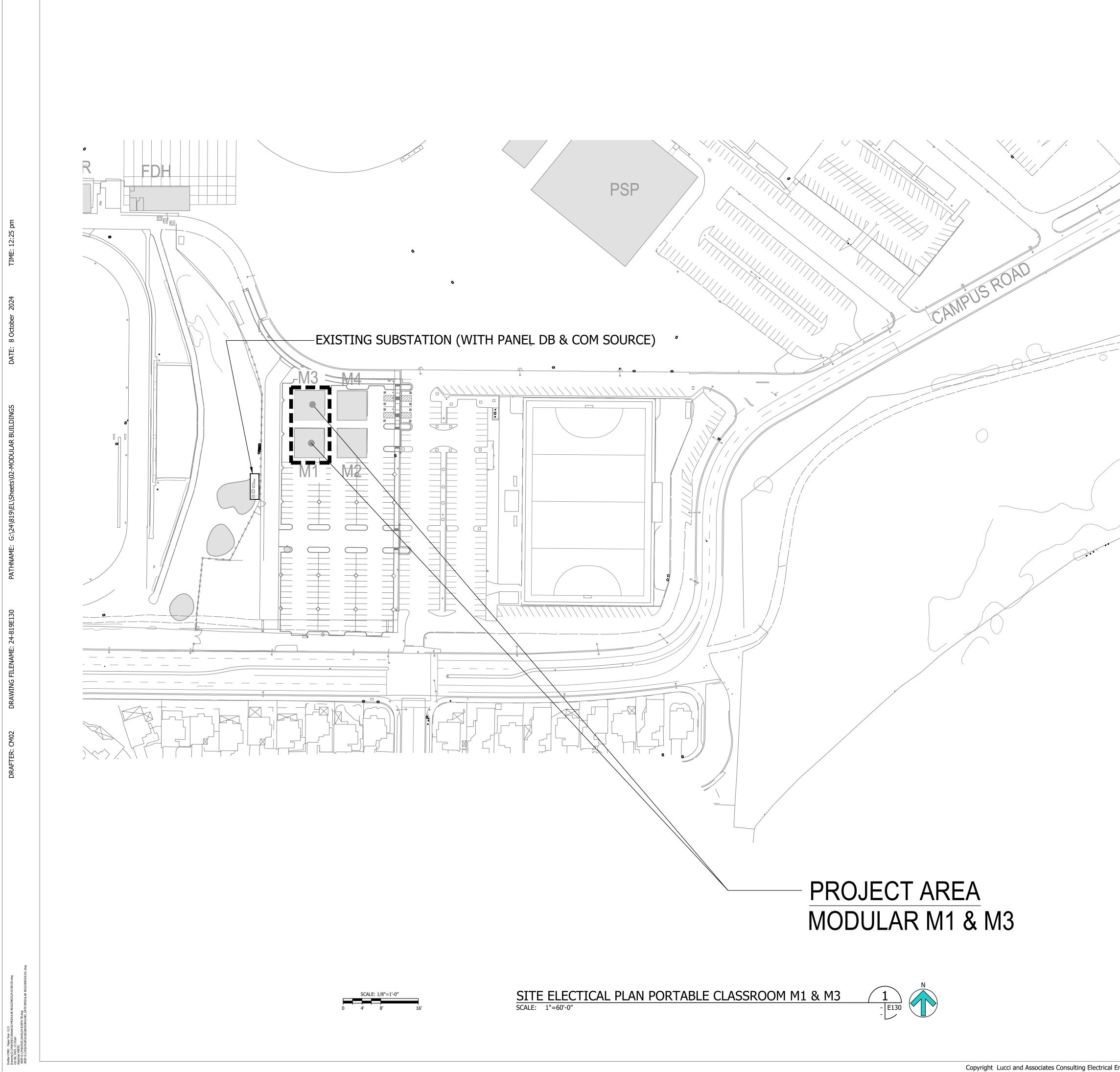
Δ	GENERAL	1	
А. 1.	SCOPE THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL SYSTEMS AND EQUIPMENT. ALL ITEMS NOTED ON THE	4.	ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISH EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE. ALL WORK SHOWN IS NEW UNLESS SPECIALLY INDICATED AS EXISTING
	PLAN WHICH ARE NOT EXPLICITLY STATED AS EXISTING SHALL BE NEW. <u>PERMITS AND CHARGES</u> OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION.		MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES. LOW VOLTAGE SYSTEMS PROVIDE RACEWAYS, AND ALL MATERIAL INCLUDING PULLING CABLE IN THE TELEPHONE REQUIREMENTS. ALL CAT 6E CABLES SHALL BE TESTED A RCCD SHALL BE PROVIDED WITH THE DOCUMENTATION.
3.	<u>REGULATIONS AND CODES</u> PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE 2022 C.E.C., CALIFORNIA ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE MANUFACTURERS RECOMMENDATIONS.	F. <u>G</u>	ROUNDING & BONDING FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SY CARRIED IN ALL CONDUITS.
4.	VERIFYING EXISTING CONDITIONS BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FALLURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST.		INSTALLATION IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COM FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS C NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS / APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALL CLAMPS, BOXES, CONNECTORS AND HARDWARE. REFER ALSO TO WRIT
5.	COORDINATION COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTION REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE VERIFIED. SCALING OFF OF DRAWINGS SHALL BE DONE AT CONTRACTORS RISK. DO NOT SCALE DEVICES, LIGHTING FIXTURES OR ANY EQUIPMENT FROM PLANS. LIGHTING FIXTURE QUANTITIES AND LENGTHS SHALL BE CONTRACTORS RESPONSIBILITY. FIXTURES ARE SHOWN FOR CIRCUITING ONLY. CONTRACTOR TO VERIFY SIZES & QUANTITIES PRIOR TO BID.	2.	ELECTRICAL SECTIONS. PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, / AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NO APPLICABLE CODES. DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH H INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF /
6.	SERVICE CONTINUITY UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME MAN-HOURS REQUIRED FOR COMPLETION.		SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND C LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY AC REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EX
7.	AS BUILT PROVIDE RECORD DRAWINGS IN ACAD TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF FINAL RETENTION OF ALL MONIES.		OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED THEY RUN LONG SIDE OR ACROSS SUCH LINES. CONDUIT SHALL NOT SPECIFIC APPROVAL OF THE OWNERS REPRESENTATIVE. HANGERS SH TO PIPING. HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUB HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH CURDED FUNCTION. CONTRACTOR CLUML SELECT ACCESSION
8. 9.	GUARANTEE CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR. SHOP DRAWINGS	6.	SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FI ALL RECEPTACLES SHALL BE MOUNTED AT 18" PER ADA REQUIREMENT BOX.
	SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTAL. SUBMIT THREE HARD COPY SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING ALL BREAKER MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT SWITCHES, RECEPTACLES, ETC.	7. 8.	CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD LOCATION CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRATIONS T LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING JURISDICTI ALL SWITCHES SHALL BE MOUNTED 36" TO 48" MEASURED FROM BOT
10.	CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER IN WRITING. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED	Н. 1.	PANEL CIRCUIT DIRECTORY SHALL COMPLY WITH CEC 408.4. <u>ADDITIONAL NOTES</u> PROVIDE SWITCH AND RECEPTACLE HEIGHTS PER STATE OF CALIFOR THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE BUILDING OFF PLANS OR FROM PREVENTING ANY VIOLATION OF THE CODES ADOPTI
B.	SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF OTHER CONTRACTORS. <u>MATERIAL AND INSTALLATION</u> ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP.	3.	REGULATIONS. FOR FIRE RATED WALL/CEILING PENETRATION AND/OR MEMBRANE PI PROVIDED TO THE INSPECTOR AT THE TIME OF INSPECTION FOR THE
1.	ALL INSTALLED MATERIALS AND EQUIPMENT SHALL BE LISTED U.L., NRTL OR LISTED AND APPROVED BY AN APPROVED TESTING LABORATORY.	5.	CONDUCTORS AT THE PANELBOARD WHERE THE BRANCH CIRCUIT OF MULTIWIRE BRANCH CIRCUITS SUPPLYING POWER TO THE PARTITIO SIMULTANEOUSLY ALL UNGROUNDED CONDUCTORS AT THE PANELBO
2.	CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH UL-1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLED ON ALL COMMUNICATION, TELEPHONE & SPEAKER CONDUITS. PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO MC, BX OR AC90 SHALL BE PERMITTED. (STEEL MC END STEEL FLEX CONDUIT IS PERMITTED). SWITCHES AND RECEPTACLES	6. 7.	PROVIDE SEPARATE SUBMITTAL; OBTAIN ALL REQUIRED PERMITS, IN INSTALLATIONS AND/OR MODIFICATIONS FROM THE FIRE DEPARTME ALL NEW OVERCURRENT DEVICES INSTALLED IN EXISTING PANELS/S INTERRUPTING CAPACITY OF THE EXISTING OVERCURRENT DEVICES.
3.	PROVIDE 20AMP NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL BE RATED FOR 120 AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5-20R. IN ALL OFFICES AND OFFICE AREAS DEVICES SHALL BE DECORA SERIES TYPE WITH COLOR SELECTION BY CONTRACTOR/OWNERS REPRESENTATIVE. FEEDERS AND BRANCH CIRCUITS IDENTIFICATION	9.	RACEWAY SEALS. CONDUITS OR RACEWAYS THROUGH WHICH MOIST EITHER OR BOTH ENDS. MULTIPLE RACEWAYS CONTAINING MORE THAN 3 CURRENT CARRYIN THE IDENTIFICATION OF EVERY CIRCUIT OF A PANEL BOARD AND SW
	IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, LOAD END, AND IN PULL BOXES WITH E-Z CODE OR OTHER APPROVED WIRE MARKER. IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z CODE FOR IDENTIFICATION OF CONDUCTORS. IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET UNIQUELY WITH PERMANENT LABELING.		<ul> <li>EVIDENT, AND SPECIFIC PURPOSE OR USE AND SHALL INCLUDE SUFF</li> <li>FROM ALL OTHERS. 2016 C.E.C 408.4 - PROVIDE MORE DETAIL ON PA</li> <li>A SINGLE RECEPTACLE INSTALLED ON AN INDIVIDUAL BRANCH CIRCU</li> <li>THE BRANCH CIRCUIT. INDICATE THE RECEPTACLE RATING. (210.21)</li> </ul>
4.	CONDUCTORS DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. (MUST BE MANUFACTURED WITHIN 6 MONTHS) PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PROVIDE STRANDED COPPER CONDUCTORS FOR ALL WIRING. USE CONDUCTORS WITH 90°C THHN/THWN 600 VOLTS INSULATION, UNLESS OTHERWISE NOTED. CONDUCTOR SIZE NO.1 AWG AND SMALLER WITH 90 DEGREE C INSULATION ARE TO USE THE 60 DEGREE COLUMN OF THE CODE, TABLE 310-16, TO DETERMINE AMPACITY. CONDUCTORS #1/0 AWG AND LARGER WITH 75 DEGREE AND 90 DEGREE INSULATION ARE TO USE THE 75 DEGREE COLUMN OF CODE, TABLE 310-16, TO DETERMINE AMPACITY. (110.14C) WHERE THE NUMBER OF CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITY OF EACH	13 I.	<ul> <li>PROVIDE RECEPTACLE OUTLETS WHEREVER CORD CONNECTED EQUIF</li> <li>WHERE THE DISCONNECTS ARE NOT PROVIDED WITHIN SIGHT FROM MUST INCLUDE PROVISIONS FOR ADDING A LOCK, AND THESE PROVI PROVISIONS HAVE TO BE PART OF THE EQUIPMENT, EITHER INHEREN CAN BE INSTALLED ON THE EQUIPMENT. [410.141(B), 422.31(B), 424 NO. 1, 620.53, 620.55].</li> <li><u>FIRE ALARM SYSTEM</u> CONTRACTOR SHALL PROVIDE AND INSTALL MODIFICATIONS TO THE</li> </ul>
5.	CONDUCTOR SHALL BE REDUCED PER TABLE 310.15(B)(3)(a). <u>LIGHTING FIXTURES</u> PROVIDE LIGHTING FIXTURES WITH ELECTRONIC DRIVERS PER SCHEDULE. NO SUBSTITUTIONS OF FIXTURES SHALL BE PROVIDED WITHOUT THE APPROVAL OF THE ENGINEER -OF-RECORD.	A) B) C) D)	HEAT DETECTORS IN ALL REQUIRED AREAS DUCT DETECTORS IN ALL REQUIRED SPACES STROBES/SPEAKERS IN ALL REQUIRED AREAS
6.	ELECTRICAL CERTIFICATION "ELECTRICIANS" PERFORMING WORK ON THIS PROJECT SHALL BE CURRENTLY CERTIFIED IN ACCORDANCE WITH THE STATE OF CALIFORNIA AB931 AND THE DIVISION OF APPRENTISHIP STANDARDS SECTION 3099.		TAMPER AND FLOW SWITCHES CONTRACTOR SHALL SUBMIT FOR THE OWNERS SIGNED APPROVAL, / PROJECT SPACE. CONTRACTOR SHALL BE SITE STANDARD - EDWARDS.
C. 1.	DEMOLITION NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS.	4. 5.	ALL DEVICES AND EQUIPMENT SHALL BE CALIFORNIA STATE FIRE MA CONTRACTOR SHALL WARRANTY ALL DEVICES AND SYSTEMS FOR A P
2. 3.	ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP. ALL DEVICES, CIRCUITS CONDUCTORS, FEEDERS ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED TO THE LAST ACTIVE DEVICE. ALL OVER-CURRENT PROTECTION AND DISCONNECT DEVICES NO LONGER UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE	6. 7.	CONTRACTOR SHALL PROVIDE 2 (TWO) HARD COPY SETS OF FIRE AL (TWO) HARD COPY SETS OF A SYSTEM OPERATIONAL MANUAL TAILOI & BUILDING FA PROGRAMING FOR SITE FA INTEGRATION. CONTRACTOR SHALL PROVIDE AN INDIVIDUALLY ADDRESSABLE TOTA OF MONITORING INITIATING CIRCUITS PLUS 30 MINUTES OF ALARM
	LABELED AS 'SPARE'. COORDINATE ALL OUTAGES WITH OWNERS REPRESENTATIVE. DISCONNECT AND MAKE SAFE ALL ELECTRICAL SYSTEMS ON SITE AND IN WALL, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.	8. 9.	CONTRACTOR SHALL PROVIDE A SATISFACTORY SYSTEM TEST IN THE CONSULTING ENGINEER. CONTRACTOR SHALL PROVIDE A CENTRAL MASTER ANNUNCIATOR PA
6. 7.	REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND RE-LABEL DEVICES AS SPARES. REMOVE ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOOR, AND PATCH SURFACES.		<ul> <li>PER OWNERS REPRESENTATIVE AND LOCAL FIRE MARSHAL.</li> <li>ANNUNCIATOR PANEL SHALL BE NONGRAPHIC WITH NAMEPLATE AND KEYED SILENCE SWITCH.</li> <li>CONTRACTOR SHALL PROVIDE ALL CONNECTION TO POWER PANELS,</li> </ul>
10.	DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVE. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.	12	AN OPERATIONAL FIRE ALARM SYSTEM. . UNIQUELY LABEL ALL ADDRESSABLE DEVICES TO MATCH FIRE ALARM AND ELECTRONIC COPY OF ALL PROGRAMMING FOR SITE AND BUILD
12. D. 1.	BEGINNING OF DEMOLITION MEANS CONTRACTOR ACCEPTS EXISTING CONDITIONS. <u>EXECUTION</u> CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES		
2.	WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK. EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.		
3.	DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC.		

	SYMBOLS	<u> </u>		
RWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS.	DUPLEX RECEPTACLE, WALL MOUNTED @ +18" AFF TO BOTTOM OF DEVICE, NEMA 5-20R U.O.N.	SHEET #	SHEET DESCRIPTION	SYMBOLS (
/INGS AND VISUAL FIELD SURVEY AND SHOWN FOR REFERENCE ONLY. TE.	<ul> <li>DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, WALL MOUNTED @ +18"AFF AT BOTTOM OF DEVICE</li> <li>DUPLEX RECEPTACLE, FLOOR MOUNTED, NEMA 5-20R</li> </ul>	E100	SITE ELECTRICAL PLAN PORTABLE	
STING (X). ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE	<ul> <li>DUPLEX RECEPTACLE, FLOOR MOUNTED, NEMA 5-20R</li> <li>CLOCK/SPEAKER BY ENS-IP-SDMF WITH IP SEA-SD MOUNT, PROVIDE &amp; INSTALLED BY CONTRACTOR WITH CAT 5 TO IDF</li> </ul>	E131 E150	LIGHTING DEMOLITION PLAN POR EXISTING PROJECT SITE LOW VOL	
BLE IN EACH RACEWAY AS REQUIRED FOR THE TELEPHONE SYSTEM PER	DATA OUTLETS, 2 GANG COVER 4SD BOX WITH DEVICES AND 4 CAT 6 CABLES FROM JACK TO MAIN IT RACK ROOM. PROVIDE 1-1/4"C MINIMUM TO CABLE TRAY OR TO IDF IF NO CABLE TRAY IS PRESENT, J-HOOKS ALLOWED IN ACCESSIBLE CEILING	E200 E300	EXISTING ELECTRICAL SINGLE LIN LIGHTING FIXTURE SCHEDULE POP	
ESTED & MEET CURRENT BICSI STANDARDS, A TEST REPORT SIGNED BY	(2)DATA OUTLETS, 2 GANG FLOOR BOX WITH DEVICES AND 2 CAT 6 CABLES PER NOTES & SPECIFICATION. PROVIDE 1-1/4"C MINIMUM TO CABLE TRAY OR IDF.	E300	LIGHTING PLAN PORTABLE CLASSE	
STEM AS REQUIRED BY CODES. CONTINUITY OF GROUNDING SHALL BE	SPECIAL OUTLET, TYPE AS REQUIRED BY EQUIPMENT.	E401 E402	POWER & COM PLAN PORTABLE CL POWER & COM PLAN PORTABLE CL	
HE SYSTEM. A GREEN GROUNDING CODE SIZED CONDUCTOR SHALL BE	<ul> <li>JUNCTION BOX (CEILING MTD.) SIZE PER TABLE AND NEC ARTICLE 314</li> <li>JUNCTION BOX (WALL MTD.) SIZE PER TABLE AND NEC ARTICLE 314</li> </ul>	E403	WIREMOLD RACEWAY DATA SHEET	ГS
A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED HIS CONTRACT. TOWARD THIS END FURNISH ALL LABOR AND TOOLS	THERMOSTAT - 36" TO 48" AFF, BOTTOM & TOP OF BOX RESPECTIVELY T TRANSFORMER			
IALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL MALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND	BRANCH CIRCUIT PANELBOARD - 120/208VAC, 3Ø, 4W.			
	4'X8'X3/4" TELEPHONE BACKBOARD, MARINE PLYWOOD AND PAINTED WITH FIRE RESISTANT PAINT, PER OWNERS REPRESENTATIVE.	PROV	IDE POWER, COM, LIGHTIN	G, MODIF
IES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES NOTHING IN THESE PLANS AUTHORIZES DEVIATION FROM	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS,		[]	IST (
NCH HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY L OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.	— — — CONDUIT RUN CONCEALED BELOW FLOOR OR UNDERGROUND         — 0-10 – LIGHTING CONTROL 0-10V (PURPLE GRAY)	LIST OF	APPLICABLE CODES	
AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE	— C5 —       LOW VOLTAGE CABLE & CONDUIT 3/4"C-1#CAT5 U.O.N. (PER nLIGHT REQUIREMENTS)         — T —       COM CIRCUIT WITH (1) CAT 6 CABLE	2022 CAL	IFORNIA ADMINISTRATIVE CODE (CA	AC), PART 1,
EP. ILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND	P — POWER CONDUIT & CONDUCTORS     FLEXIBLE CONDUIT (WITH GROUND CONDUCTOR, PROVIDE LIQUID TIGHT CONDUIT IN ALL		IFORNIA BUILDING CODE (CBC), PAF	
LE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, ATED BY AT LEAST THREE (3) INCHES FROM WATER LINES WHENEVER NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT	EXPOSED AREAS) HASH MARKS INDICATE QUANTITY OF #12 CONDUCTORS. NO HASH		LIFORNIA ELECTRICAL CODE (CEC), P	
RS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT . PART OF THE VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS S SUBMITTED TO ENGINEER FOR APPROVAL OF APPEARANCE. ALL	#10       MARKS INDICATE (2)#12AWG. (PROVIDE GROUND CONDUCTOR IN ALL CONDUITS.)         WHERE NO NUMBER IS INDICATED, THE CONDUCTORS ARE	2022 CAL	LIFORNIA PLUMBING CODE (CPC), PA	RT 5, TITLE 2
WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND	#12AWG(MIN.) CONDUIT SIZE IS AS REQUIRED BY ELECTRICAL CODE. (3/4" CONDUIT MINIMUM).		LIFORNIA ENERGY CODE, PART 6, TIT LIFORNIA FIRE CODE (CFC), PART 9, <sup>-</sup>	
NT FINISHES. EMENTS UNLESS NOTED OTHERWISE, MEASURED FROM BOTTOM OF	INDICATES A HOMERUN TO PNL 2LA, CKTS 1-3-5 WITH SHARED NEUTRAL & CKT 7 WITH DEDICATED NEUTRAL.			
ATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS.	_2LA 1-3-5,7		ABBREV	
DNS THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS WITH U.L. DICTION.		A AF AFC	AMPERES AMP FRAME/AMP FUSE AVAILABLE FAULT CURRENT	LV M MC
1 BOTTOM & TOP OF BOX RESPECTIVELY.		AFF AIC	ABOVE FINISHED FLOOR AMP INTERRUPTING CURRENT	MDF MIN.
		ARCH AS ASTM	ARCHITECT AMP SWITCH AMERICAN SOCIETY OF	MTD MTB MTG
IFORNIA ACCESSIBLE REQUIREMENTS.	#10       3/4"C-2#10 & 1#10 GND         #10       3/4"C-3#10 & 1#10 GND         #11       3/4"C-3#10 & 1#10 GND         #11       3/4"C-4#10 & 1#10 GND         #11       3/4"C-5#10 & 1#10 GND	AT ATS	TESTING MATERIAL(S) AMP TRIP AUTOMATIC TRANSFER SWITCH	MV MH MFG
G OFFICIAL FROM REQUIRING THE CORRECTION OF ERRORS ON THESE DOPTED BY THE CITY, RELEVANT LAWS, ORDINANCES, RULES AND/OR		AWG BKBD	AMERICAN WIRE GAGE BACKBOARD	NEC (N)
NE PENETRATION, COMPLETE NRTL CLASSIFICATION SHEETS SHALL BE	1       SEE KEY NOTE #1 AS INDICATED ON DRAWING         \$\$ P       SWITCH WITH PILOT LIGHT @ 42"AFF	BW C CB	BOTH WAYS CONDUIT OR CEILING CIRCUIT BREAKER	NIC NL NO
R THE LISTED RATED ASSEMBLY. A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED	<ul> <li>\$ 3ab</li> <li>3-WAY SWITCH, a &amp; b INDICATES LIGHT FIXTURE TO BE SWITCHED (EACH A 3-WAY) MOUNTED @ 42" AFF</li> <li>\$ SWITCH MOUNTED @ +42" AFF</li> </ul>	CONT CKT CLG	CONTINUATION CIRCUIT CEILING	NC OH P
IT ORIGINATES. (210.4) TTION SHALL BE PROVIDED WITH A MEAN TO DISCONNECT	\$ M MOTOR RATED SWITCH	CO CTV	CONDUIT ONLY CABLE TELEVISION	PBO PNL
ELBOARD WHERE THE BRANCH CIRCUIT ORIGINATES. (605.7)	\$ a,b,c,d CIRCUIT SWITCH LEGS WALL SWITCHES	(CU) CW DIS	Copper Cold Water Pipe Disconnect	PV (R) RGS
'S, INSPECTIONS AND APPROVALS FOR ALL FIRE ALARM SYSTEM RTMENT.	WF WIFI DEVICE IN CEILING/ON CEILING WITH 2 CAT 6 CABLES TO IDF	DS DWG ECD	DISCONNECT SWITCH DRAWING ELECTRICAL CONTRACTOR	RM SN
ELS/SWITCHBOARDS SHALL MATCH THE MAKE, MODEL AND ICES.	T 35AF 3P	EM EMT EOR	EMERGENCY LIGHT/FEEDER ELECTRICAL METAL TUBING ENGINEER OF RECORD	SPD TC TTB
OISTURE MAY CONTACT LIVE PARTS SHALL BE SEALED OR PLUGGED AT	M 100A UTILITY METER (OR AS NOTED)	EPR EVCS	ETHYLENE PROPYLENE RUBBER ELECTRIC VEHICLE CHARGING	TTC TR
RYING CONDUCTORS SHALL COMPLY WITH [2016 CEC, 310.15(B)(2)(A)].	FUSED DISCONNECT SWITCH 100AMP SWITCH RATING WITH 60 AMP FUSES, 3 POLE     200AF	(F) FA	STATION FRONT FIRE ALARM	TVSS TYP
ID SWITCHBOARD SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED IN PANEL SCHEDULE CIRCUIT DESCRIPTIONS.	) 150AT MOLDED CASE CIRCUIT BREAKER 200 AMP FRAME, 150 AMP TRIP RATING, 3 POLE   3P	FS FT GC	SHALLOW FLOOR BOX FEET GENERAL CONTRACTOR	UG UL UON
CIRCUIT SHALL HAVE AN AMPERE RATING OF NOT LESS THAN THAT OF 0.21(B)(1))	CCTV-VERIFY MOUNTING LOCATION AND REQUIREMENTS WITH CLIENT/OWNER. PROVIDE 3/4" C AND 2 CAT 6 (VERIFY WITH CAMPUS IT) CABLE TO IDF ROOM RACK PER CAMPUS IT DEPARTMENT DIRECTION	GFI GND	GROUND FAULT INTERRUPTER GROUND	UNSW V
EQUIPMENT WILL BE USED. (210.50(B))		HP ID IDF	Horsepower Identification Intermediate distribution	VA VD W
FROM THE EQUIPMENT IT SUPPLIES, THE SWITCH OR CIRCUIT BREAKER ROVISIONS MUST REMAIN WITH THE EQUIPMENT. THESE LOCKING	COLOR CODE FOR CONDUCTORS	IG JB	FRAME ISOLATED GROUND JUNCTION BOX	WP W/ (X)
IERENT TO THE EQUIPMENT DESIGN OR AS A ACCESSORY FEATURE THAT ), 424.19, 440.14 EXCEPTION NO. 1, 600.6(A)(2)(3), 620.51(A) EXCEPTION	PROVIDE CONDUCTOR COLOR CODE AS FOLLOWS:	K KVA	KILO KILO VOLT AMPS=1000VA LIGHTING CONTACTOR	φ
) THE EXISTING FULLY ADDRESSABLE FIRE ALARM SYSTEM FOR THE	120/208VAC,3Ø,4W: BLUE,BLACK,RED FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR GROUND.	LC LCL	LONG CONTINUOUS LOAD	
	GROUND.			
/AL, APPROVED FIRE DEPARTMENT FIRE ALARM DRAWINGS FOR THE				
E MARSHALL APPROVED AND CURRENTLY CSFM LISTED. R A PERIOD OF TWO YEARS.				
RE ALARM MANUALS FOR ALL SYSTEMS AND DEVICES IN ADDITION TO 2 AILORED FOR THE PROJECT SPACE & ONE ELECTRONIC VERSION OF SITE				
TOTALLY SUPERVISED SYSTEM WITH BATTERY BACK-UP FOR 24 HOURS			3	
ARM WITH DUAL RATE BATTERY CHARGER.				
OR PANEL IN THE ELECTRICAL ROOM AND A REMOTE PANEL IN AN AREA		À		°(
E AND LED FOR EACH DEVICE ADDRESS, WITH AUDIBLE ALARM AND				
IELS, CONDUIT AND WIRE AND CONNECTIONS REQUIRED TO PROVIDE				
ARM PROGRAMMING & AS BUILTS. CONTRACTOR TO PROVIDE A HARD UILDING CONDITION.				- 🎢
		TERM		
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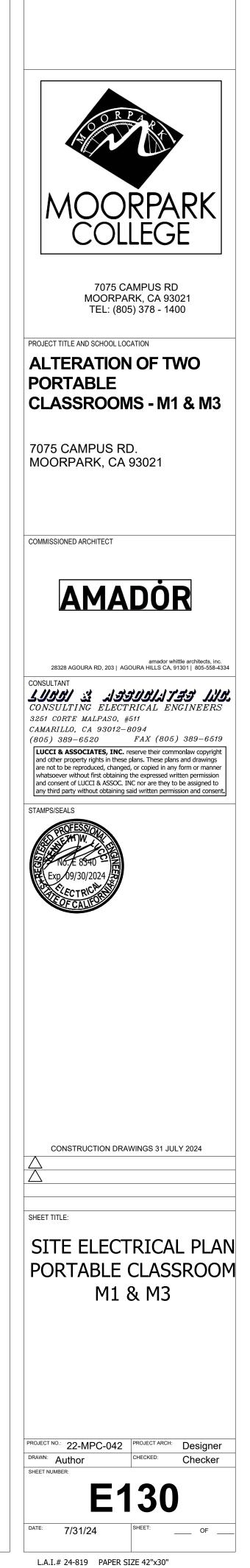


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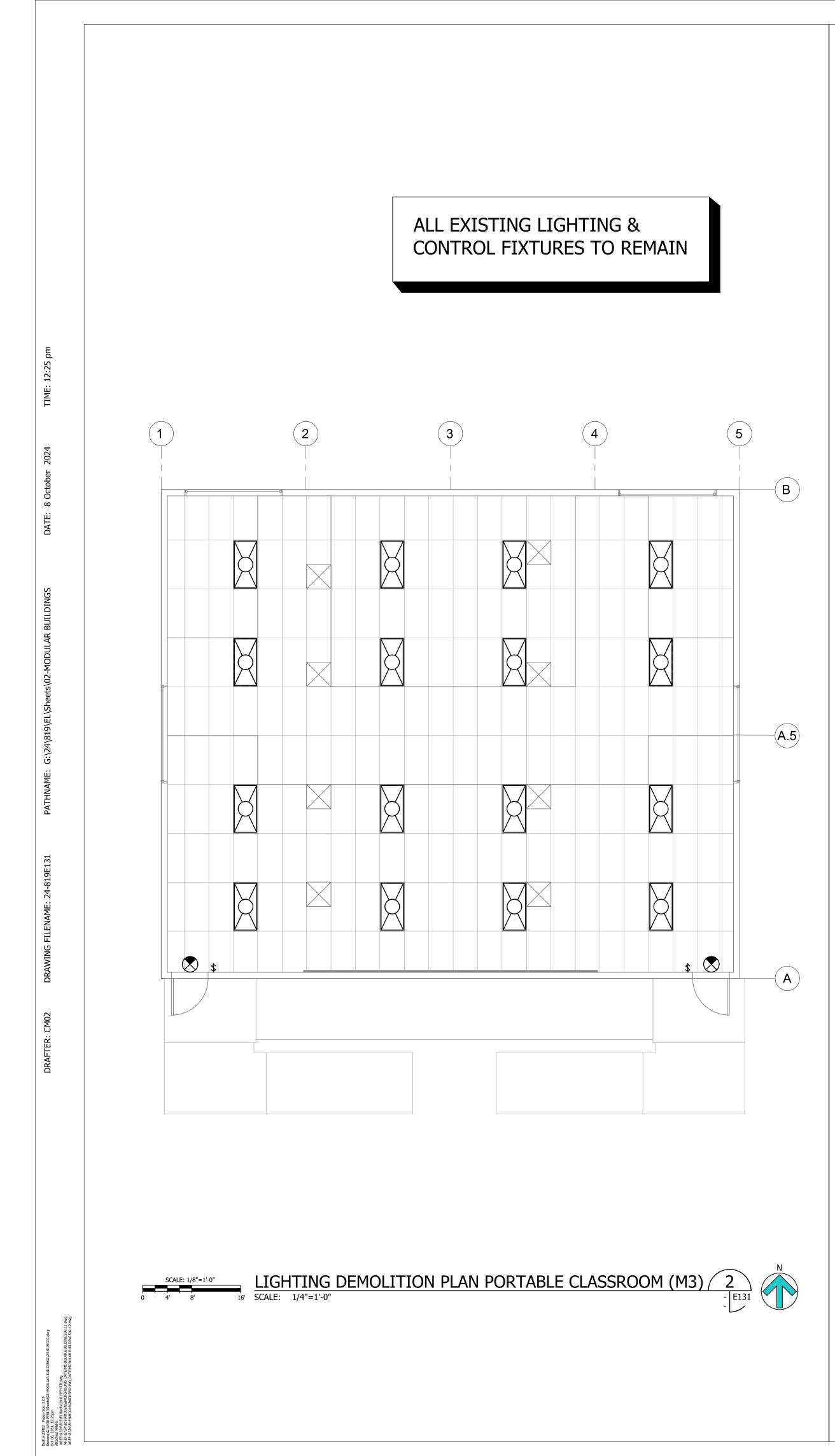


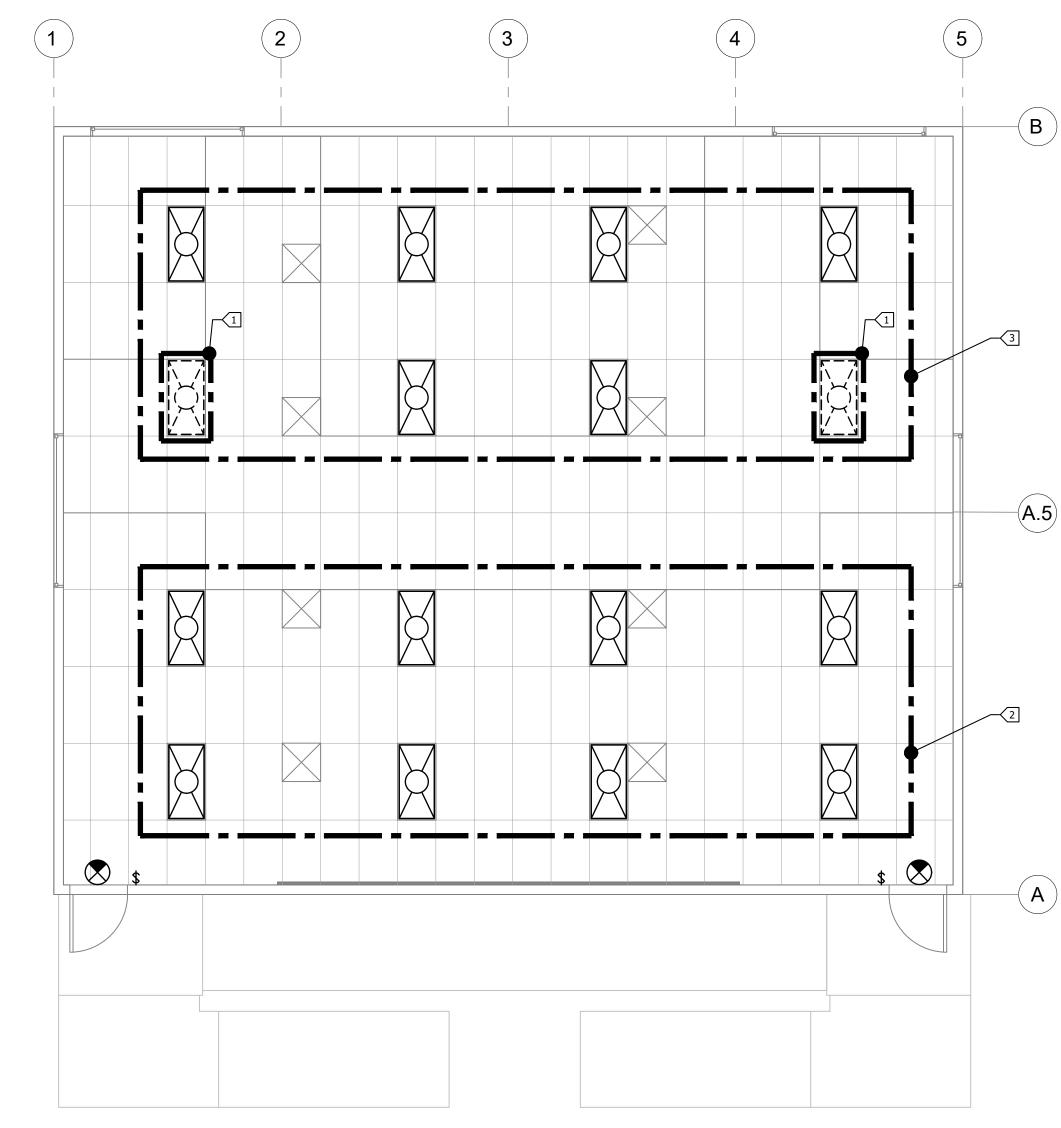
SHEET	NOTES:	

1. FIELD VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.



DIVISION OF THE STATE ARCHITECT





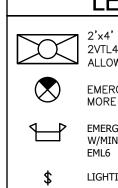


### SHEET NOTES (SCOPE):

- PROVIDE AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN 1. AREAS AS INDICATED AND SPECIFIED, COMPLETE.
- 2. PREPARE EXISTING BUILDING TO RECEIVE OR CONNECT THE NEW WORK OR REVISIONS.
- PROVIDE MISCELLANEOUS DEMOLITION, CUTTING, ALTERATION, AND REPAIR WORK 3. IN THE EXISTING BUILDING NECESSARY FOR THE COMPLETION OF THE ENTIRE PROJECT.
- 4. DISCONNECT AND RECONNECT ELECTRICAL EQUIPMENT AS REQUIRED BY THE CONSTRUCTION MODIFICATIONS.
- 5. FIELD VERIFY EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND WIRING (BRANCH CIRCUITING AND CONTROLS). CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.
- 6. SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL OTHER THAN ITEMS TO BE REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY ALL FEES AND CHARGES FOR DISPOSAL.
- 7. SCHEDULE ALL WORK AND OUTAGES WITH OWNERS WRITTEN APPROVAL. 8. CONTRACTOR SHALL LEAVE ALL CIRCUITS ENERGIZED TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF FEEDERS ARE ROUTED THROUGH DEMOLITION AREA.

### KEY NOTES:

- TO BE RELOCATED PER E301 & CONNECT/REVISED LIGHTING CONTROL (PROVIDE SUPPORT PER E300).
- 2 REUSE EXISTING ROOM LIGHTING CONTROL FOR THESE FIXTURES, REMOVE CONTROL CONNECTION TO FIXTURES NOTED PER 3 & MAKE SAFE ALL CONNECTIONS.
- 3 PROVIDE NEW LIGHTING CONTROL PER E301.



## LEGEND (EXISTING)

2'x4' LED DROP IN FIXTURE, MODEL: LITHONIA, VTLED 2VTL4, 4000K SP41 – 40 WATTS MAX (60 WATTS ALLOWABLE AT CZN 16)

EMERGENCY EXIT LIGHT, - WHERE THERE ARE TWO OR MORE EXITS, AN EXIT SIGN

EMERGENCY EGRESS LIGHT WITH INTEGRAL EMERGENCY LIGHTING W/MINIMUM 90-MINUTE BATTERY BACK-UP IS REQUIRED, LITHONIA EML6

LIGHTING CONTROL SYSTEM

DO NOT DISCONNECT EXISTING FA SYSTE OR SHUT DOWN IDF OR COM RACKS



DIVISION OF THE STATE ARCHITECT

7075 CAMPUS RD MOORPARK, CA 93021 TEL: (805) 378 - 1400

### PROJECT TITLE AND SCHOOL LOCATION **ALTERATION OF TWO** PORTABLE CLASSROOMS - M1 & M3

7075 CAMPUS RD. MOORPARK, CA 93021

COMMISSIONED ARCHITECT

CONSULTANT

## AMADÓR

amador whittle architects, inc. 28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

ערע דבר אנעער אי אשאער אי אעעראי א CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 (805) 389–6520 FAX (805) 389–6519

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CONSTRUCTION DRAWINGS 31 JULY 2024

## SHEET TITLE:

## LIGHTING DEMOLITION PLAN PORTABLE CLASSROOM (M1) & (M3)

PROJECT NO.: 22-MPC-042 PROJECT ARCH: Designer DRAWN: Author CHECKED: Checker

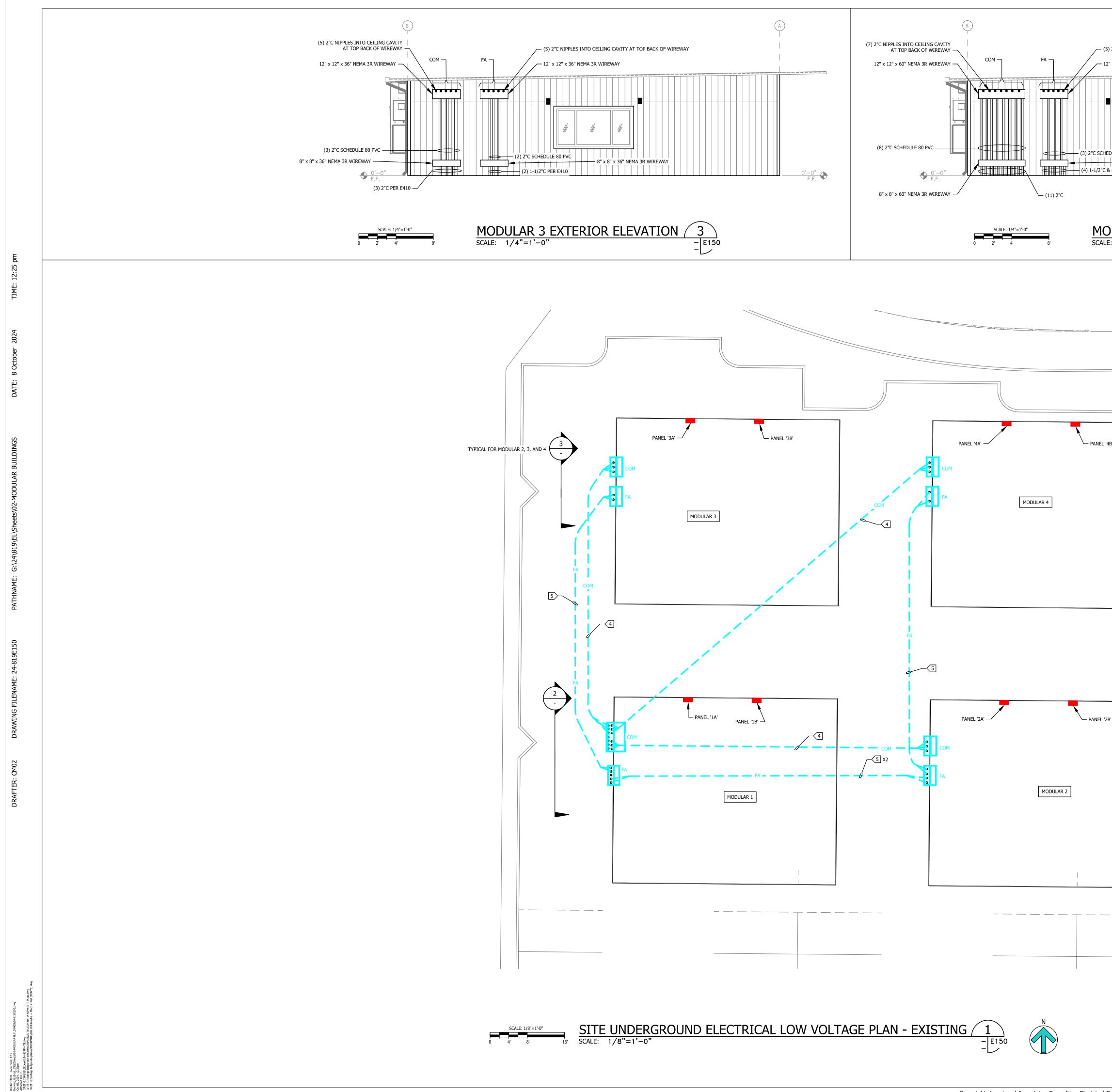
E131

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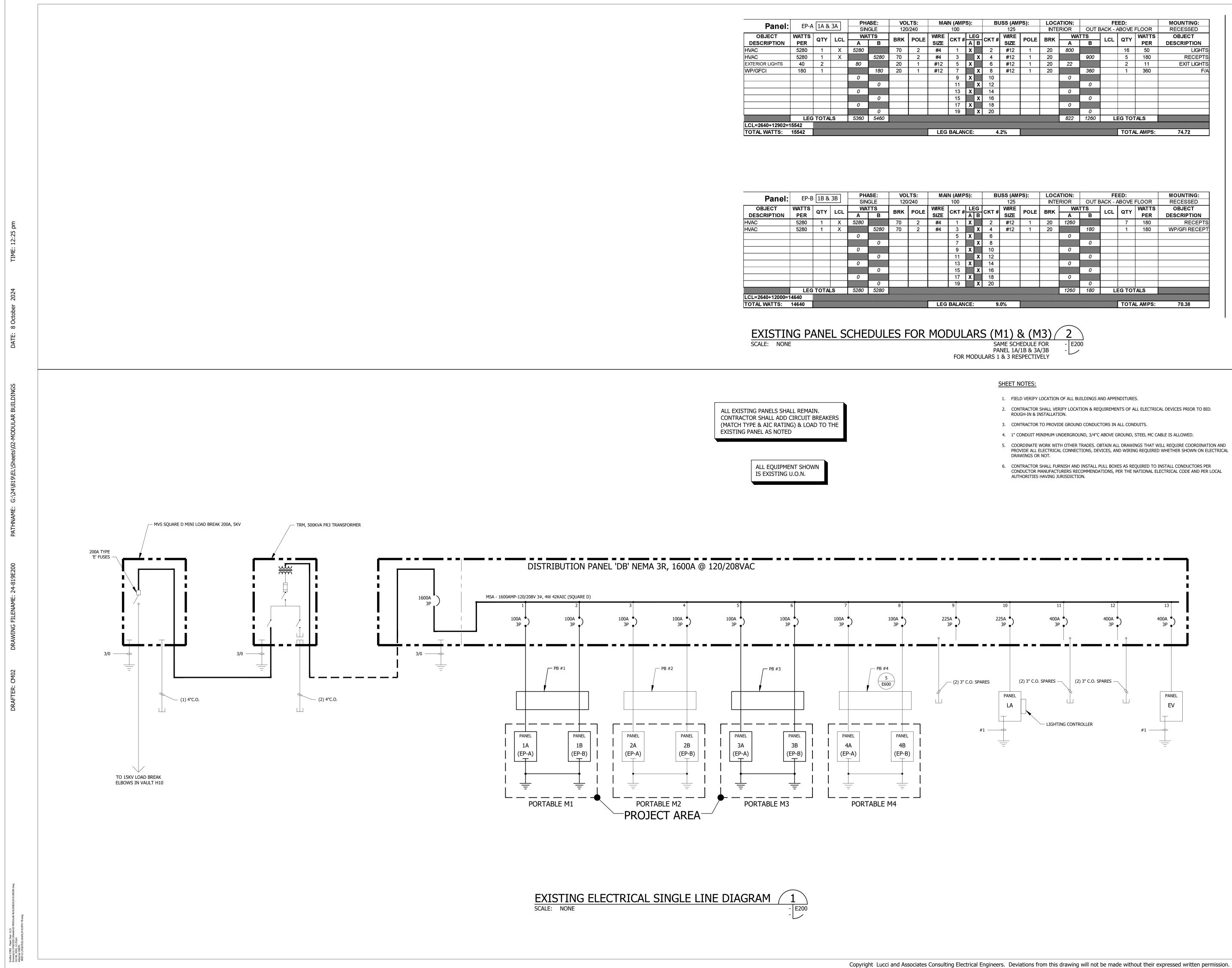
7/31/24

L.A.I.# 24-819 PAPER SIZE 42"x30"

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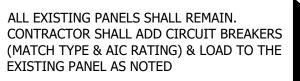


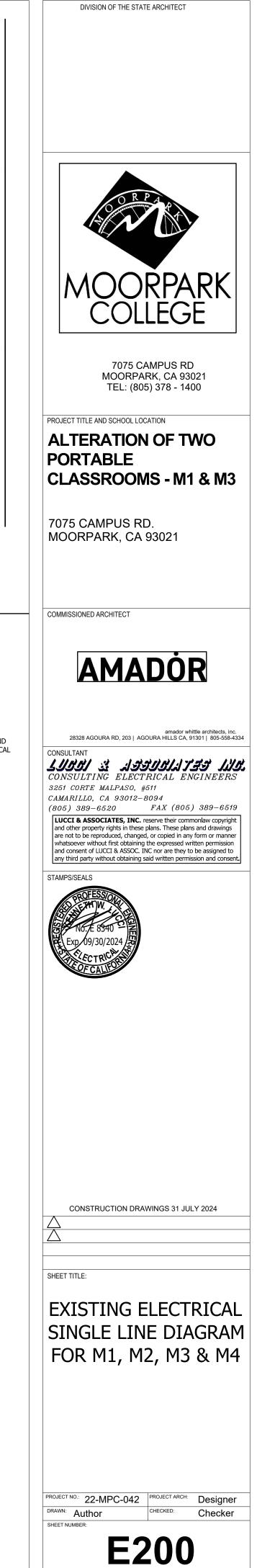
	(A)	DIVISION OF THE STATE ARCHITECT
(5) 2"C NIPPLES INTO CEILING CAVITY AT TOP BACK O	F WIREWAY	
12" x 12" x 36" NEMA 3R WIREWAY		
HEDULE 80 PVC	AY	
ODULAR 1 EXTERIOR	ELEVATION 2	MOORPARK COLLEGE
		7075 CAMPUS RD MOORPARK, CA 93021 TEL: (805) 378 - 1400
		PROJECT TITLE AND SCHOOL LOCATION
	KEY NOTES:	ALTERATION OF TWO PORTABLE
	2 PULLBOX 3 NOT USED	CLASSROOMS - M1 & M3
	<ul> <li>(3) 2"C.O.</li> <li>(5) (2) 1-1/2"C</li> </ul>	7075 CAMPUS RD.
		MOORPARK, CA 93021
		COMMISSIONED ARCHITECT
_ '4B'		
		AMADÓR
		amador whittle architects, inc. 28328 AGOURA RD, 203   AGOURA HILLS CA, 91301   805-558-43 CONSULTANT
		LUCCI & LECTRICAL ENGINEERS 3251 CORTE MALPASO, #511
		CAMARILLO, CA 93012-8094 (805) 389-6520 FAX (805) 389-6519 LUCCI & ASSOCIATES, INC. reserve their commonlaw copyright
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		any third party without obtaining said written permission and consen STAMPS/SEALS
		PROFESSION PROFESSION
		Exp 09/30/2024
		COF CALIFORM
'2B'		
		CONSTRUCTION DRAWINGS 31 JULY 2024
		$\Delta$
		SHEET TITLE:
		EXISTING PROJECT
		SITE LOW VOLTAGE
		PROJECT NO.:     22-MPC-042     PROJECT ARCH:     Designer       DRAWN:     Author     CHECKED:     Checker
		E150
		DATE: 7/31/24 SHEET: OF
l Engineers. Deviations from this drawing w	vill not be made without their expressed written permis	ssion. L.A.I.# 24-819 PAPER SIZE 42"x30"



Panel:	FP-A	1A &	34		ASE:		LTS:	MA	n (amf	'S):		Bl	JSS (AM	PS):		TION:			ED:		MOUNTING:
i anei.		1/10	5/1	SIN	GLE	120	/240		100				125		INTE	RIOR		BACK - /	ABOVE	FLOOR	RECESSED
OBJECT	WATTS	QTY	LCL	WA	TTS	BRK	POLE	WIRE	CKT #	L	EG	скт #	WIRE	POLE	BRK	WA	TTS	LCL	QTY	WATTS	OBJECT
DESCRIPTION	PER	QIT	LOL	Α	В	DKK	FULE	= SIZE	WIRE SIZE	Α	В	SIZE	SIZE			Α	В			PER	DESCRIPTION
HVAC	5280	1	Х	5280		70	2	#4	1	X		2	#12	1	20	800			16	50	LIGHTS
HVAC	5280	1	Х		5280	70	2	#4	3		X	4	#12	1	20		900		5	180	RECEPTS
EXTERIOR LIGHTS	40	2		80		20	1	#12	5	X		6	#12	1	20	22			2	11	EXIT LIGHTS
WP/GFCI	180	1			180	20	1	#12	7		X	8	#12	1	20		360		1	360	F/A
				0					9	X		10				0					
					0				11		X	12					0				
				0					13	X		14				0					
					0				15		X	16					0				
				0					17	X		18				0					
					0				19		X	20					0				
	LEG	TOTAL	S	5360	5460											822	1260	L	EG TOT	ALS	
_CL=2640+12902=1	5542																				
TOTAL WATTS:	15542							LEG	BALAN	CE	:	4	.2%						TOTA	LAMPS:	74.72

Panel:	FP-B	1B &	3B	PHA	ASE:	VOI	_TS:	MAI	N (AM P	S):		BL	JSS (AM	PS):	LOCA	TION:		FE	ED:		MOUNTING:
Fallel.			50	SIN	GLE	120	/240		100				125		INTE	RIOR	OUT E	BACK - A	BOVE	FLOOR	RECESSED
OBJECT	WATTS	QTY	LCL	WA	TTS	BRK	POLE	WIRE	CKT #	LE	G	скт #	WRE	POLE	BRK	WA	FTS	LCL	QTY	WATTS	OBJECT
DESCRIPTION	PER			Α	В	DIXK	FULL	SIZE	скт #	Α	В		SIZE	FULL	DIXK	Α	В	LOL		PER	DESCRIPTION
HVAC	5280	1	Х	5280		70	2	#4	1	X		2	#12	1	20	1260			7	180	RECEPT
HVAC	5280	1	Х		5280	70	2	#4	3		X	4	#12	1	20		180		1	180	WP/GFI RECEP
				0					5	X		6				0					
					0				7		X	8					0				
				0					9	X		10				0					
					0				11		X	12					0				
				0					13	X		14				0					
					0				15		X	16					0				
				0					17	X		18				0					
					0				19		X	20					0				
	LEG	ΤΟΤΑΙ	S	5280	5280											1260	180	LI	G TOT	ALS	
_CL=2640+12000=1	4640																				
FOTAL WATTS:	14640							LEG	BALAN	CE:		9.	0%						ΤΟΤΑ	LAMPS:	70.38





7/31/24

L.A.I.# 24-819 PAPER SIZE 42"x30"

\_\_\_\_\_ OF \_\_\_\_

PANEL	L 1A/1B & 3A/3B 3 RESPECTIVELY	- E200 
<u>SHE</u>	EET NOTES:	
1.	FIELD VERIFY LOCATION OF	ALL BUILDINGS AND APPENDITURES.
2.	CONTRACTOR SHALL VERIFY	Y LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICE

	$\frown$	
1\ &	(M3)	

FEATURES & SPECIFICATIONS         INTENDED USE — Provides a minimum of 90 minutes illumination for the rated wattage upon loss of AC power to meet and exceed code required emergency lighting. Ideal for applications requiring attractive LED unit equipment with quick installation and unparalleled performance for mounting heights from 7.5' to 30'. Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.         Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.         CONSTRUCTION — The housing is a standard white (black optional) thermoplastic with a compact and low-profile contemporary design. It is 5VA flame rated, impact-resistant, scratch-resistant and corrosion proof. The	
profile contemporary design. It is 5VA flame rated, impact-resistant, scratch-resistant and corrosion profile, integrated UV-stable resin resists discoloration from natural and man-made light sources. There is a low-profile, integrated and back-lit test switch with an easily visible multi-color LED status indicator. The back-plate contains a universal j-box mounting pattern to facilitate ease of installation on a wide variety of j-boxes and the front housing allows tool-less access for ease of maintenance. The lamp heads have a unique track-and-swivel arrangement permitting full range of direction of	CIM cy Ligh
optical aiming. OPTICS — The ELM4L features two high-performance LEDs rated at 3.3 watts per lamp head and delivers a total of 640 lumens in a spot pattern (SP640L). The ELM6L features three high-performance LEDs rated at 5.3 watts per lamp head and delivers a total of 1,100 lumens in a spot pattern (SP1100L). The typical life of an LED is 10 years. The LED light sources typically never need to be replaced under normal	
conditions for normal off applications. CCT: 5000K ELECTRICAL — Orderable in multiple voltages (see ordering tree for specific voltages.) Current-limiting charger maximizes battery life and minimizes energy consumption to provide low operating costs. Small battery chargers Certified in the CA Title 20 Appliance Efficiency Database. 1100 Lun	
Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts. Regulated charge voltage maintains a stable charge voltage over a wide range of line voltages. Prevents over/undercharging that shortens battery life and reduces capacity. Filtered charger input minimizes charge voltage ripple and extends battery life. BATTERY: Sealed, maintenance-free nickel-cadmium (ELM4L only) or Lithium Iron Phosphate battery. Optional High-Output (HO option) and Extra High Output (EHO option), ITP battery type only, provides a wide variety of	SPHAT
remote capacities and/or extended run-times. Automatic 24-hour recharge after a 90-minute discharge. Advanced electrical design provides constant light output throughout the entire discharge period. Brownout protection is automatically switched to emergency mode when supply voltage drops below approxi- mately 80 percent nominal of 120, 220, 277 or 347. Other input voltages may vary. MOUNTING	
AC/LVD reset allows battery connection before AC power is applied and prevents battery damage from deep discharge. Self-Diagnostics: Continuously monitors AC functionality. Test switch and remote tester (RTKIT accessory) provide manual activation of 30-second diagnostic testing for on-demand visual inspection. Standard derangement monitoring will indicate disconnected battery, charger failure and displays green flashing indicator light while in emergency mode. Single multi-chromatic LED indicator to display two-state	
charging, test activation and three-state self-diagnostics. SELF-DIAGNOSTICS and REMOTE TEST (SDRT and AELR option): Self-diagnostic testing: Five minutes every 30 days and 90 minutes annually. Diagnostic evaluation of lamps, AC to DC transfer, battery charging and condition of microprocessor. Automatic test is easily postponed for eight hours by activating manual test switch or use of remote tester (RTKIT accessory). Set of the set of the	
AELR option: STAR (Self-testing Automated Reporting) radio transmits monthly and annual test results and diagnostics information for automated reporting requirements. For more information visit AcuityBrands.com/STAR INSTALLATION — Wall and ceiling mount standard. Blind-mate connector ensures easy installation and safe maintenance. 7/8" entrance provision at top of unit for standard 1/2" conduit entry. Tool-less removal of front	
<ul> <li>Indirectionate: 7/0° circulate: providence pro</li></ul>	-
BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to <u>www.acuitybrands.com/buy-american</u> for additional information. WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed.	
Complete warranty terms located at: <u>www.acuitybrands.com/support/warranty/terms-and-conditions</u> <b>NOTE:</b> Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.	
+ Small Battery Chargers Certified in the CA Title 20 Appliance Efficiency Database. Items marked by a shaded background qualify for the Design Select program and ship in days or less. To learn more about Design Select, visit www.acuitybrands.com/designsel *See ordering tree for details	
EMERGENCY ELM4	L_ELM6 Pg. 1 of
ELM4L-ELM6L Quantum <sup>®</sup> LED Contemporary Commercial Emergency Light	
ELM4L-ELM6L Quantum <sup>®</sup> LED Contemporary Commercial Emergency Light	
Design Select options indicated by this color background.       CS       Looking for Contractor Select readily available configurations? Click here to visit Contractor Select.	
Design Select options indicated by this color background.       CS       Looking for Contractor Select readily available configurations? Click here to visit Contractor Select.	
Design Select options indicated by this color background.       CS       Looking for Contractor Select readily available configurations? Click here to visit Contractor Select.	
Design Select options indicated by this color background.       CS       Looking for Contractor Select readily available configurations? Click here to visit Contractor Select.	
Design Select options indicated         By this color background.             Design Select options indicated           Event Select options indicated           Event Select options indicated           Event Select options indicated            Design Select options indicated       Desi	mation.
Design Select options indicated         Design Select options indicated             Nets             Nutbe             Nutbe ordered when using for well coation applications. WPVS breaks out and ships separately and nucleus indicated will indice a 12" long 3/8-16 UNC threaded rod and hardware. Not available worder lengths.	mation. with any
Design Select options indicated       Example: Edude of the set with Comparison of the se	mation. with any <u>TP SDR</u> Ids <sup>4</sup>
With outer background.       Image: Control with the stand contract with the stand control with the stand contract with the stand control with the stand contract with the stand control with the stand conter stand conter stand with the stand control with the	mation. with any <u>TP SDR</u> ds <sup>4</sup> pattery itput
Visition contractignosti	mation. with any <u>TP SDR</u> ds <sup>4</sup> battery itput e s n) Act
Design beter speinse indicate       Design beter speinse indicate       Design beter speinse indicate         With code the degrade       Balance       Netse <ul> <li>Design beter speinse indicate</li> </ul> <ul> <li>Design beter speinse indicate</li> <li>Design beter speinse indicate</li> <li>Design beter speinse indicate</li> </ul> <ul> <li>Design beter speinse indicate</li> <li>Design beter speinse</li> <li>Design beter speinse&lt;</li></ul>	mation. with any <u>TP SDR</u> dds <sup>4</sup> battery htput e b) Act nt <sup>6</sup>
Drags Store coptom mechanic       Difficult for distance docts mark watching one of the store s	mation. with any <u>TP SDR</u> ds <sup>4</sup> pattery itput e s n) Act nt <sup>6</sup> th SDRT ar mated
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d"series

13-3/4" Weight:

\_\_\_\_ **D** \_\_\_\_

(34.9 cm)

(25.4 cm)

10″

(16.2 cm)

12 lbs

Width:

Depth:

Height:

Specifications

Height: 6-3/8"

Luminaire

Width:

Depth:

## **D-Series Size 1** LED Wall Luminaire

NIGHTIME NIGHTIME Buy American

Back Box (BBW, E20WC)

6-3/8"

(16.2 cm)

13-3/4" **BBW** 

(34.9 cm) Weight:

4" **E20WC** 10 lbs (10.2 cm) **Weight:** (4.5 kg)

Catalog Number Notes

WF Туре Hit the Tab key or mouse over the page to see all interactive element

### Introduction

5 lbs

(2.3 kg)

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance. With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, *ı-*maintenance tes that are

DSXW1 LED	ing In	torm	atior	י				EXAM	PLE: D	SXW1	LED 20	)C 1000	40K	T3M MVOLT DDBT
Series	LEDs		Drive C	urrent	Color temp	erature	Distribu	ition	Voltage	Mounti	ng	Control Op	tions	
DSXW1 LED	e 20C 2 (1	one ngine)	530 ▶700	350 mA 530 mA 700 mA 1000 mA (1 A) <sup>1</sup>	40K 4 50K 5 AMBPC A	0000 K 1000 K Omber ohosphor onverted	T2S T2M T3S T3M T4M TFTM	Type II Short Type II Medium Type III Short Type III Medium Type IV Medium Forward Throw Medium	► MVOLT <sup>2</sup> 120 <sup>3</sup> 208 <sup>3</sup> 240 <sup>3</sup> 277 <sup>3</sup> 347 <sup>3,4</sup> 480 <sup>3,4</sup>		ed included Surface mounting bracket Surface- mounted back box (for conduit entry) <sup>5</sup>	Shipped i PE DMG PIR PIRH PIRHC3V PIRH1FC3V E20WC	Photoe 0-10v use with 180° m 180° m Motior ambier Motior ambier Emerge	dectric cell, button type <sup>6</sup> dimming wires pulled outside fixture (foi th an external control, ordered separately notion/ambient light sensor, $<15'$ mtg ht notion/ambient light sensor, 15–30' mtg J //ambient sensor, 8–15' mounting heigh nt sensor enabled at 1fc <sup>17</sup> //ambient sensor, 15–30' mounting heigh t sensor enabled at 1fc <sup>17</sup> ency battery backup (includes external nent enclosure), CA Title 20 compliant <sup>89</sup>
Other Option	15					Finish (*	equired)							
DF Doub HS Hous	le fuse (120, ble fuse (208 se-side shiel	8, 240 or 480	,	VG Vandal	terrent spikes	DDBXD DBLXD DNAXD DWHXC	Black Natur	al aluminum	DSSXD DDBTXD DBLBXD DNATXD	Textured	l dark bronze	C	WHGXD SSTXD	Textured white Textured sandstone

Ordered	and shipped separately.	2 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).	
DSXWHS U DSXWBSW U DSXW1VG U	House-side shield (one per light engine) Bird-deterrent spikes Vandal guard accessory	<ol> <li>Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.</li> <li>Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.</li> <li>Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.</li> <li>Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).</li> <li>Reference Motion Sensor table on page 3.</li> <li>Same as old ELCW. Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product</li> <li>Not available with SPD.</li> <li>Not available with E20WC.</li> <li>Also available as a separate accessory; see Accessories information.</li> <li>Not available with E20WC.</li> </ol>	
	HONIA HTING.	One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com © 2013-2021 Acuity Brands Lighting, Inc. All rights reserved.	DSXW1-LE Rev. 6/02/

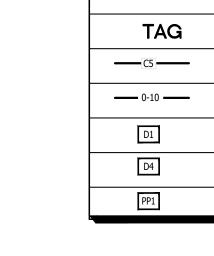
### Performance Data

COMMERCIAL OUTDOOR

Lumen Output Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Contact factory for performance data on any configurations not shown here.

		- System -		3	0K (30	00 K, 7	OCRI)	_	4	0K (40	00 K, 70	OCRI)			50K (5	000 K, 700	CRI)		AMBP	C (Amber	Phospho	r Converte	ed)
LEDs		Watts		Lumens	В	U	G	LPW	Lumens		U	6	LPW		В	U	6	LPW	Lumens	В		6	LPW
			T2S	1,415	0	0	1	109	1,520	0	0	1	117	1,530	0	0	1	118	894	0	0	1	69
			T2M	1,349	0	0	1	104	1,448	0	0	1	111	1,458	0	0	1	112	852	0	0	1	66
	350mA	13W	T3S	1,399	0	0	1	108	1,503	0	0	1	116	1,512	0	0	1	116	884	0	0	1	68
	550117	1.511	T3M	1,385	0	0	1	107	1,488	0	0	1	114	1,497	0	0	1	115	876	0	0	1	67
			T4M	1,357	0	0	1	104	1,458	0	0	1	112	1,467	0	0	1	113	858	0	0	1	66
			TFTM	1,411	0	0	1	109	1,515	0	0	1	117	1,525	0	0	1	117	892	0	0	1	69
			T2S	2,053	1	0	1	108	2,205	1	0	1	116 111	2,220	1	0	1	117	1,264	0	0	1	67
			T2M T3S	1,957	1	0	1	103 107	2,102	1	0	1	115	2,115	1	0	1	111	1,205 1,250	0	0	1	63 66
	530 mA	19W	T3M	2,031 2,010	1	0	1	107	2,181 2,159	1	0	1	115	2,194	1	0	1	115	1,230	0	0	1	65
			T4M	1,970	1	0	1	100	2,133	1	0	1	111	2,172	1	0	1	112	1,237	0	0	1	64
10C			TFTM	2,047	0	0	1	104	2,113	1	0	1	116	2,129	1	0	1	112	1,212	0	0	1	66
(10 LEDs)			T2S	2,623	1	0	1	100	2,150	1	0	1	108	2,212	1	0	1	109	1,200	0	0	1	59
			T2M	2,499	1	0	1	96	2,684	1	0	1	103	2,701	1	0	1	104	1,472	0	0	1	57
			T3S	2,593	1	0	1	100	2,785	1	0	1	107	2,802	1	0	1	108	1,527	0	0	1	59
	700 mA -	26W	T3M	2,567	1	0	1	99	2,757	1	0	1	106	2,774	1	0	1	107	1,512	0	0	1	58
			T4M	2,515	1	0	1	97	2,701	1	0	1	104	2,718	1	0	1	105	1,481	0	0	1	57
			TFTM	2,614	1	0	1	101	2,808	1	0	1	108	2,825	1	0	1	109	1,539	0	0	1	59
			T2S	3,685	1	0	1	94	3,957	1	0	1	101	3,982	1	0	1	102	2,235	1	0	1	57
			T2M	3,512	1	0	1	90	3,771	1	0	1	97	3,794	1	0	1	97	2,130	1	0	1	55
	1000 mA	39W	T3S	3,644	1	0	1	93	3,913	1	0	1	100	3,938	1	0	1	101	2,210	1	0	1	57
	1000 111A	5500	T3M	3,607	1	0	1	92	3,873	1	0	1	99	3,898	1	0	1	100	2,187	1	0	1	56
			T4M	3,534	1	0	2	91	3,796	1	0	2	97	3,819	1	0	2	98	2,143	1	0	1	55
			TFTM	3,673	1	0	1	94	3,945	1	0	1	101	3,969	1	0	1	102	2,228	1	0	1	57
			T2S	2,820	1	0	1	123	3,028	1	0	1	132	3,047	1	0	1	132	1,777	1	0	1	77
			T2M	2,688	1	0	1	117	2,886	1	0	1	125	2,904	1	0	1	126	1,693	1	0	1	74
	350mA	23W	T3S	2,789	1	0	1	121	2,994	1	0	1	130	3,014	1	0	1	131	1,757	0	0	1	76
			T3M T4M	2,760 2,704	1	0	1	120 118	2,965 2,905	1	0	1	129 126	2,983 2,922	1	0	1	130 127	1,739 1,704	1	0	1	76
			TFTM	2,704	1	0	1	122	3,019	1	0	1	131	3,038	1	0	1	132	1,704	0	0	1	77
			T2S	4,079	1	0	1	117	4,380	1	0	1	125	4,407	1	0	1	126	2,504	1	0	1	72
			T2M	3,887	1	0	1	111	4,380	1	0	1	119	4,407	1	0	1	120	2,304	1	0	1	68
			T3S	4,033	1	0	1	115	4,331	1	0	1	124	4,359	1	0	1	120	2,307	1	0	1	71
	530 mA	35W	T3M	3,993	1	0	2	114	4,288	1	0	2	123	4,315	1	0	2	123	2,451	1	0	1	70
			T4M	3,912	1	0	2	112	4,201	1	0	2	120	4,227	1	0	2	121	2,402	1	0	1	69
20C			TFTM	4,066	1	0	2	116	4,366	1	0	2	125	4,394	1	0	2	126	2,496	1	0	1	71
(20 LEDs)			T2S	5,188	1	0	1	113	5,572	1	0	1	121	5,607	1	0	1	122	3,065	1	0	1	67
()			T2M	4,945	1	0	2	108	5,309	1	0	2	115	5,343	1	0	2	116	2,921	1	0	1	64
	700 mA	46W	T3S	5,131	1	0	2	112	5,510	1	0	2	120	5,544	1	0	2	121	3,031	1	0	1	66
	700 MA	40W	T3M	5,078	1	0	2	110	5,454	1	0	2	119	5,487	1	0	2	119	3,000	1	0	1	65
			T4M	4,975	1	0	2	108	5,343	1	0	2	116	5,376	1	0	2	117	2,939	1	0	1	64
ļ			TFTM	5,172	1	0	2	112	5,554	1	0	2	121	5,589	1	0	2	122	3,055	1	0	1	66
			T2S	7,204	1	0	2	99	7,736	2	0	2	106	7,784	2	0	2	107	4,429	1	0	1	61
			T2M	6,865	1	0	2	94	7,373	2	0	2	101	7,419	2	0	2	102	4,221	1	0	1	58
	1000 mA	73W	T3S	7,125	1	0	2	98	7,651	1	0	2	105	7,698	1	0	2	105	4,380	1	0	1	60
			T3M	7,052	1	0	2	97	7,573	2	0	2	104	7,620	2	0	2	104	4,335	1	0	2	59
			T4M	6,909	1	0	2	95	7,420	1	0	2	102	7,466	1	0	2	102	4,248	1	0	2	58
			TFTM	7,182	1	0	2	98	7,712	1	0	2	106	7,761	1	0	2	106	4,415	1	0	2	60

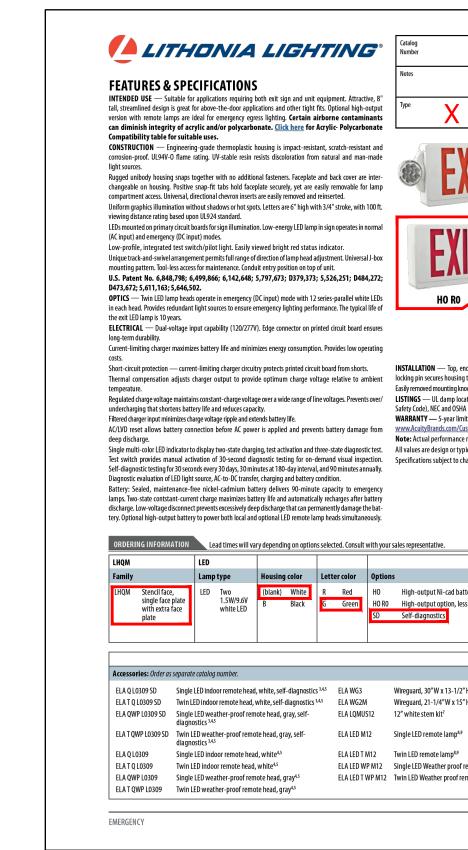
			LI
TAG	SYMBOL	WATT	DESCRIPTION
X -	$\bigotimes$	3	LED EXIT SIGN WITH DIECAST ALUMINUM BODY, STENCIL CUT LETTERS, GREEN LETTERING.
Z -			EM LIGHT
	<u> </u>		AREA FLOOD



FIXTURE SCHEDULE NOTES:

- 1. FIXTURES TYPE IN CONTACT WITH INSULATION SHALL HAVE LISTED THERMAL BARRIER. CONTRACTOR SHALL VERIFY THE TYPE OF CEILING BEFORE ORDERING NEW FIXTURES. CONTRACTOR IS FULLY RESPONS TO PROVIDE ALL MOUNTING BRACKETS TO FIT CEILING
- 3. CONDITIONS AT NO EXTRA CHARGE TO THE OWNER. 4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR E LOCATION OF LIGHTING FIXTURES.
- SEE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS, CEILI CONFIGURATION AND LIGHTING PLACEMENT. 5. XX FIXTURE TYPE

T-BAR L SCALE: NONE



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DSXW1-LED

Rev. 6/02/21

						_	DIVISION OF THE STATE ARCHITECT
IGH	TING FIX	TURE SCI	HEDULE				
	MP - TYPE	MOUNTING	MANUFACTURER A		REMARKS	-	
	ID QUANTITY	SURFACE	MODEL NUMBER	120 VOLTS, E	_N	-	
	LED ARRAY	WALL	90 MINUTE BATTERY			_	
	LED	WALL	LITHONIA EML6	90 MINUTE B	ATTERY		
		WALL	LITHONIA DSX1				
	LED						
		-/				<b>~</b>	ORPAN
	DEVIC	E/CON	ITROL LEC	GEND		_	
			DESCRIPT	ION			
	CAT 5 CABLE PROV	IDE RACEWAY AS R	REQUIRED				
	0-10 WIRING - PUR	PLE & GRAY FOR LE	ED DIMMING				MOORPARK
	nLIGHT ON/OFF RA	ISE LOWER #nPOD	MDXWH				COLLEGE
	nLIGHT DIMMER 4	CHANNEL TOGGLE	WITH DIMMING #nPODM4PDXW	/H			
	nLIGHT POWER PAG	CK nPP16D					7075 CAMPUS RD
							MOORPARK, CA 93021 TEL: (805) 378 - 1400
		WITHIN OF EACH CORNER		_	- SEISMIC WIRE TYI WIRES ONE EACH FIXTURE DIAGONA OPPOSED, THESE RECESSED FLUC FIXTURE T-B	END OF ILLY MAY BE SLACK DRESCENT AR GRID	ADMINISTRATION BUILDING SWING SPACE IN FOUNTAIN HALL 7075 CAMPUS RD. MOORPARK, CA 93021
	SCREW EAC	H SIDE) OR OTHE METHOD OF FAST IG STRUCTURE -	ER DSA FENING		PROVIDE T-BAR HO CLIP AT EACH CORN	-	COMMISSIONED ARCHITECT
AVE U.L. RE DNSIBLE R EXACT ILING	ATTACHED THE ATTACH CAPACITY C FIXTURE WE GAGE HANG MEMBERS W EACH FIXTU COMMON W WHERE HEA SUPPLEMEN A 48 INCH M FOLLOWED. WITHOUT S LIGHTING F	TO THE SUSPEND HMENT DEVICE SI F 100 PERCENT ( EIGHT ACTING IN RMEDIATE SYSTE ERS SHALL BE AT VITHIN 3 INCHES IRE. TANDEM FIX IRES. AVY DUTY SYSTEM TAL HANGERS AR 40DULAR HANGEI WHEN CROSS RL UPPLEMENTAL HA IXTURES, THESE HE SAME CARRYIN	DF THE LIGHT I ANY DIRECTION. EMS ARE USED, #12 ITACHED TO THE GRID OF EACH CORNER OF TURES MAY UTILIZE MS ARE USED, RE NOT REQUIRED IF	CONDUIT, FIXTU SECURELY FASTE	TED DIRECTLY FROI BY APPROVED HANG HTING FIXTURES SH ROM THE STRUCTUF IRE OR APPROVED TRICAL EQUIPMENT, RES, ETC. SHALL BE ENED TO THE BUILDI FR DSA ORDINANCE	4 GERS. ALL BE SE	amador whitle architects, inc. 28328 AGOURA RD, 203   AGOURA HILLS CA, 91301   805-558-4334 CONSULTANT <i>JJJJJJ &amp; JJJJJJ &amp; JJJJJ &amp; JJJJJJ</i>
LA	Y IN FI	XTURI	EDETAIL	1 - E300			TROFESSO TRO
NS ing both exit s ipplications and egress lightin arbonate. Cli titic housing is sin resists disco ditional fastene faceplate secur serts are easily spots. Letters a	sign and unit equipment. Attract d other tight fits. Optional high- g. Certain airborne containt impact-resistant, scratch-resistan oloration from natural and man- ers. Faceplate and back cover are renvoed and reinserted. are 6" high with 3/4" stroke, with ergy LED lamp in sign operates in r	Notes Notes Type Type nt and rande r inter- r lamp 100 ft.	X EXII H	Thermoplastic Exits			
e of direction o onduit entry po <b>18; 5,797,67</b> cy (DC input) r irre emergency 277V). Edge co inimizes energ rcuitry protects	yht red status indicator. of lamp head adjustment. Universa sistion on top of unit. <b>3; D379,373; 5,526,251; D48</b> 4 mode with 12 series-parallel whit lighting performance. The typical nnector on printed circuit board e gy consumption. Provides low ope s printed circuit board from shorts im charge voltage relative to an	4,272; te LEDs il life of ensures erating 5. INSTALLATION –	- Top, end or back mounting. Housing snaps to o shousing to canopy.	LED Lamp Head Nickel-Cadmium Battery			CONSTRUCTION DRAWINGS 31 JULY 2024
oltage over a w apacity. d extends batter ower is applie minutes at 18 minutes at 18 misfer, charging battery dilv battery dilv addep discharg and optional l	ide range of line voltages. Prevent	Easily removed mou sover/ LISTINGS — U.d Safety Code), NEC a WARRNTY — S- e from www.AcuityBrand Note: Actual perfi ic test. All values are desi ecttion. Specifications sub nually. Specifications sub nualy.	unting knockouts. Conduit entry knockout for 1/2" fley damp location listed standard 50°- 104°F (10°-40°C and OSHA illumination standards. -year limited warranty. (Battery is prorated). Comp <u>Is com/CustomerResources/Terms</u> and <u>Conditions</u> formance may differ as a result of end-user enviro gn or typical values, measured under laboratory o ject to change without notice.	). Meets UL 924, NFPA 101 (current Life lete warranty terms located at <u>.aspx.</u> nment and application.			SHEET TITLE: LIGHTING FIXTURE SCHEDULE PORTABLE CLASSROOM
	White Black G Green If-diagnostics <sup>3,4,5</sup> ELA WG3 E-diagnostics <sup>3,4,5</sup> ELA WG2M	SD Self-diagnostic Wireguard, 30"W y Wireguard, 21-1/4 S12 12" white stem kit	stion, less lamp heads NOM SALIDA Salida s s x 13-1/2" H x 6" D <sup>6</sup> "W x 15" H x 12" D <sup>6</sup> y <sup>7</sup> Also available in 5 Only compatible 1 3 0 1 4 1 3 0 1 1 3 0 1 1 1 1 1 1 1 1 1 1 1 1 1	with self-diagnostic option. (ex: HO SD) black. Add "B" after ELA to order black ELA B Q L0309.			PROJECT NO.: 22-MPC-042 PROJECT ARCH: Designer
emote head, g head, white <sup>4,5</sup>	ELA LED T	M12 Twin LED remote l	amp <sup>8,9</sup> 6 See spec sheet E 7 See spec sheet E amp <sup>8,9</sup> 8 See spec sheet E 2 Comparison of the spec sheet E	A-Stemkits. A LED (Contractor Select LED Remotes).			Designer       DRAWN:     Author       CHECKED:     Checker
ead, white <sup>4,5</sup> remote head, emote head, g	5 /	P M12 Single LED Weathe WP M12 Twin LED Weather	er prooi remote lamp 🌼				

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LHQM-LED

L.A.I.# 24-819 PAPER SIZE 42"x30"

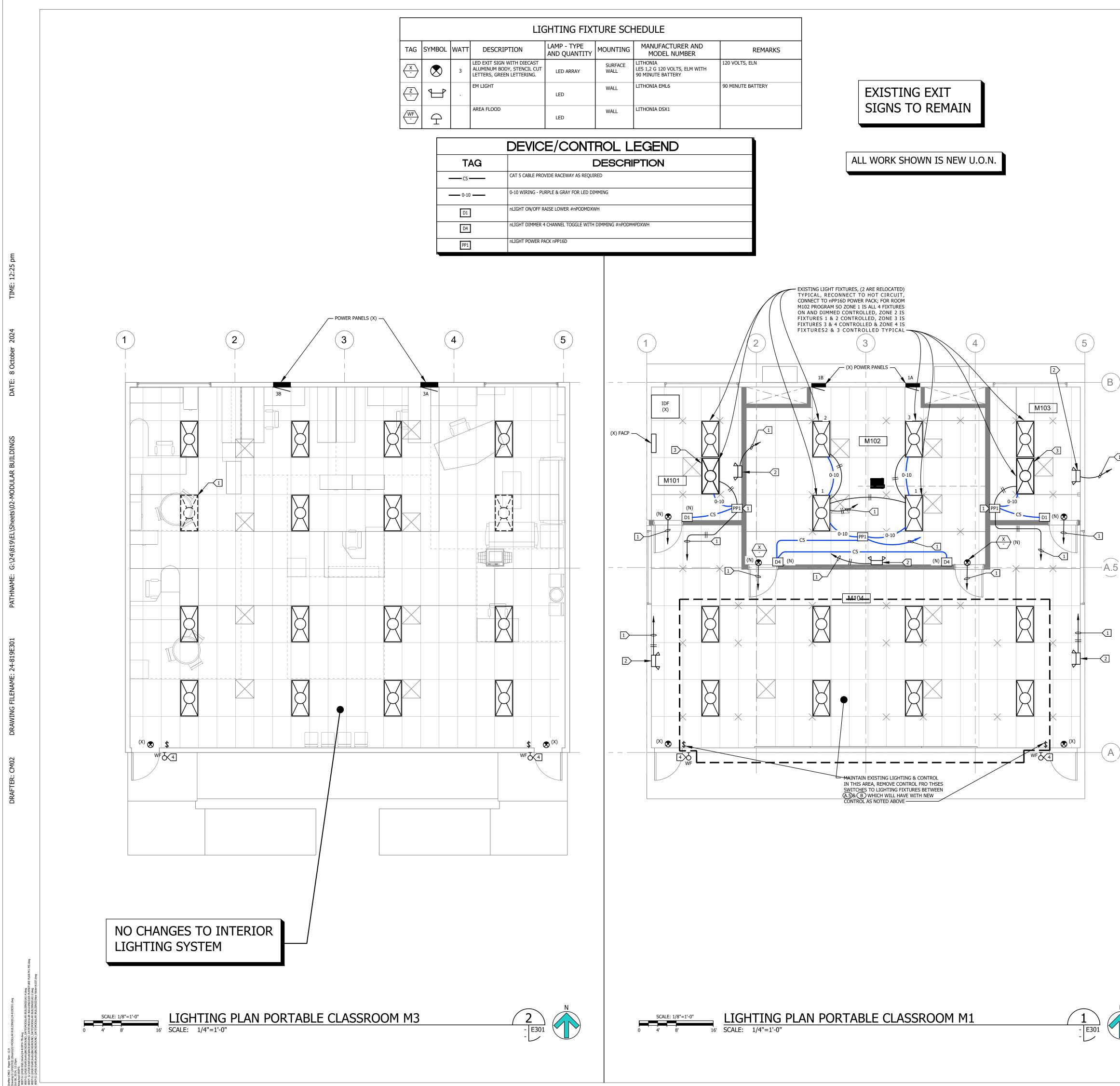
7/31/24

**E300** 

SHEET:

\_\_\_\_\_ OF \_\_\_\_\_

DATE:



LIG	LIGHTING FIXTURE SCHEDULE													
2	Lamp - Type And quantity	MOUNTING	MANUFACTURER AND MODEL NUMBER	REMARKS										
DIECAST INCIL CUT TERING.	LED ARRAY	SURFACE WALL	LITHONIA LES 1,2 G 120 VOLTS, ELM WITH 90 MINUTE BATTERY	120 VOLTS, ELN										
	LED	WALL	LITHONIA EML6	90 MINUTE BATTERY										
	LED	WALL	LITHONIA DSX1											
EVIC	E/CONT	ROL L	EGEND											
	]	DESCRI	PTION											
CABLE PROV	VIDE RACEWAY AS REQUI	RED												

### SHEET NOTES:

- 1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
- 2. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED OR STEEL MC.
- 4. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
- 5. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
- 6. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM 7. CONDUITS.



DIVISION OF THE STATE ARCHITECT

7075 CAMPUS RD MOORPARK, CA 93021 TEL: (805) 378 - 1400

PROJECT TITLE AND SCHOOL LOCATION **ALTERATION OF TWO** PORTABLE CLASSROOMS - M1 & M3

7075 CAMPUS RD. MOORPARK, CA 93021

COMMISSIONED ARCHITECT

CONSULTANT

KEY NOTES:

- CONNECT TO EXISTING CONSTANT HOT LIGHTING CIRCUIT, CONTRACTOR TO EXTEND AS REQUIRED.
- 2 NEW EM LIGHT (Z) . 1
- 3 RELOCATED FIXTURE
- (4) REPLACE EXISTING EXTERIOR FIXTURE WITH NEW WF FIXTURE, CONNECT TO EXISTING CIRCUIT



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للالا تحظر لنكلالخاند 💰 الالالال CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 (805) 389–6520 FAX (805) 389–6519

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SHEET TITLE:

CONSTRUCTION DRAWINGS 31 JULY 2024

LIGHTING PLAN PORTABLE CLASSROOM M1 & M3

PROJECT NO.: 22-MPC-042 PROJECT ARCH: Designer DRAWN: Author CHECKED: Checker

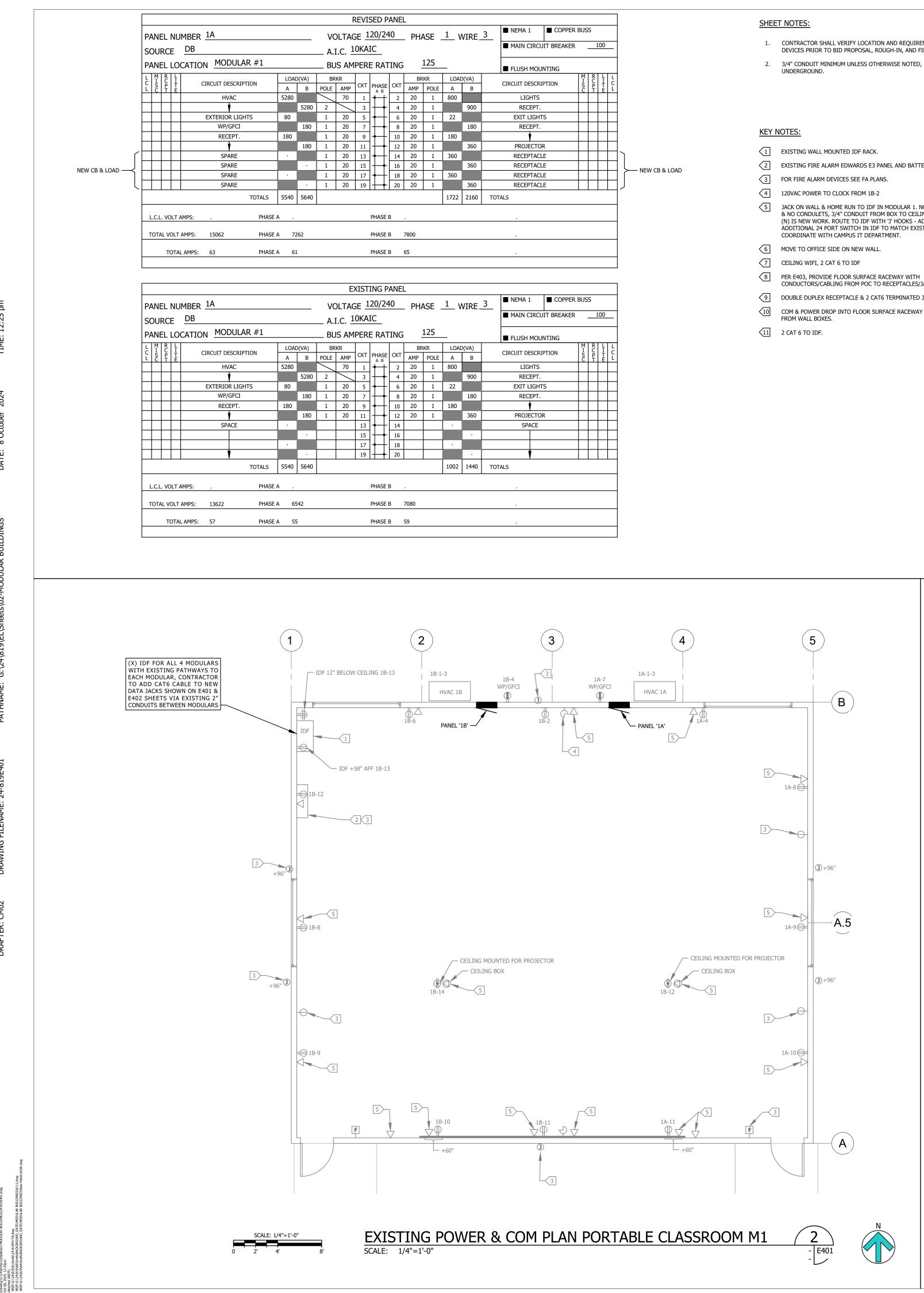
E301

SHEE.

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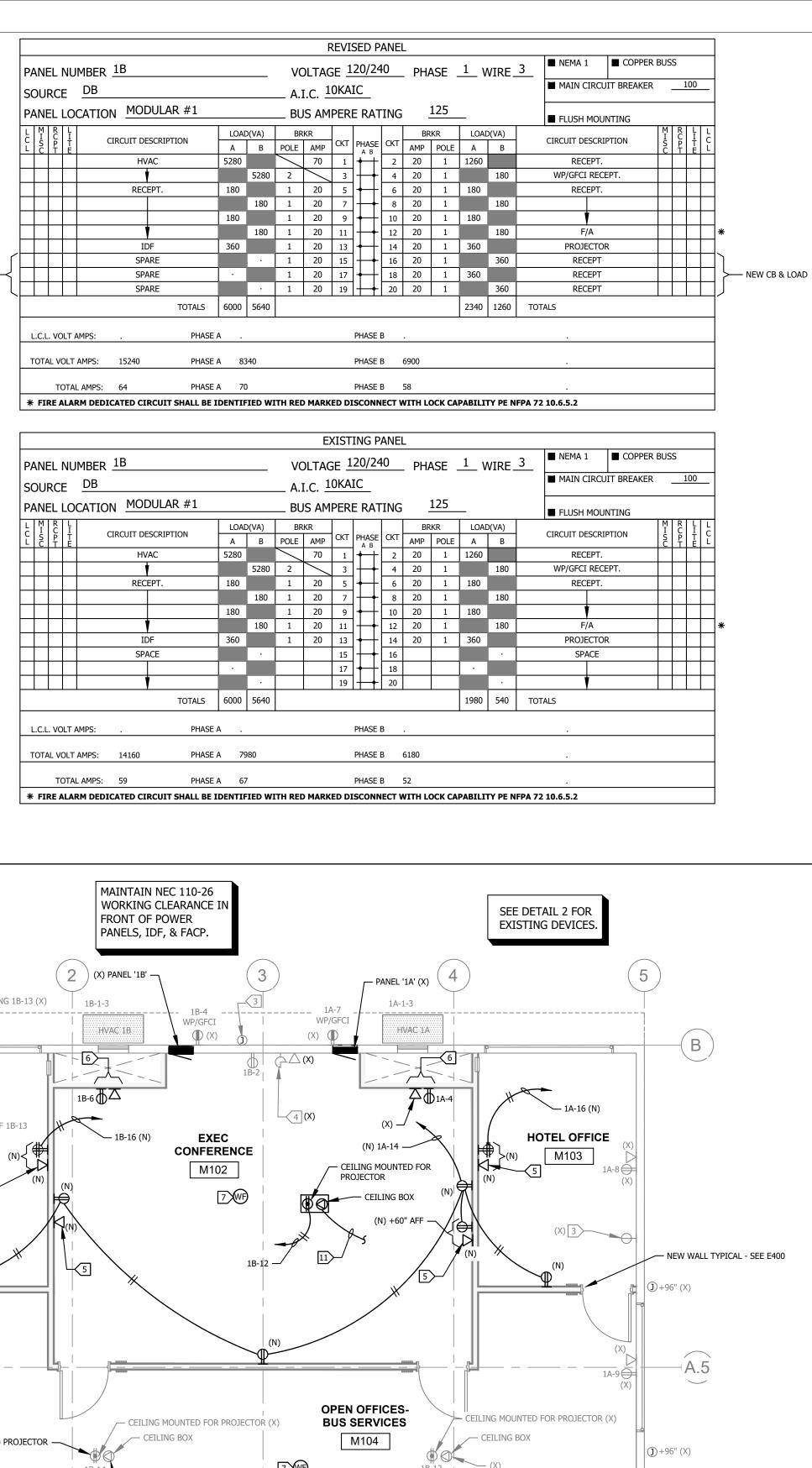
7/31/24 \_\_\_\_\_ OF \_\_\_\_ L.A.I.# 24-819 PAPER SIZE 42"x30"

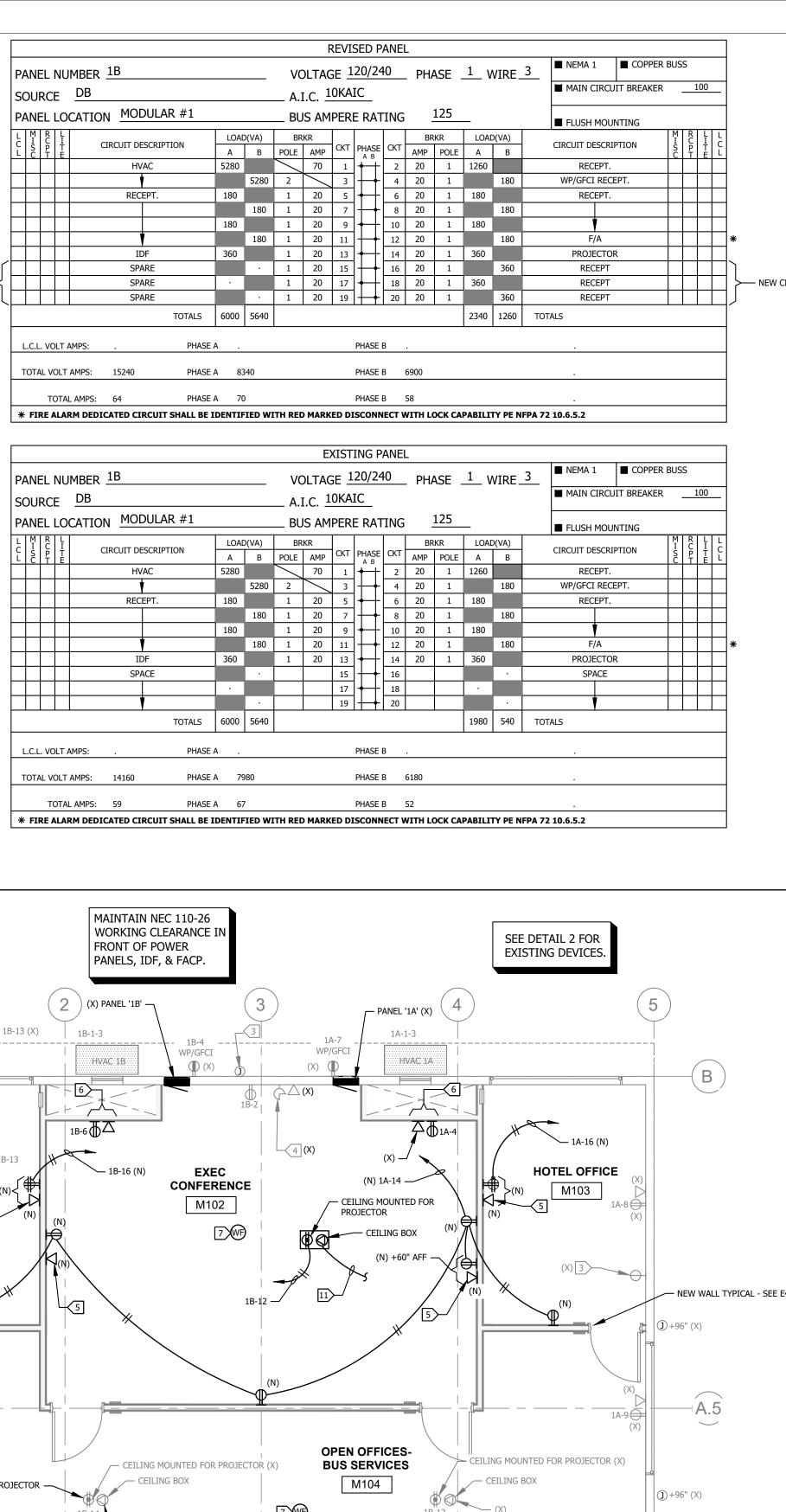
DATE:

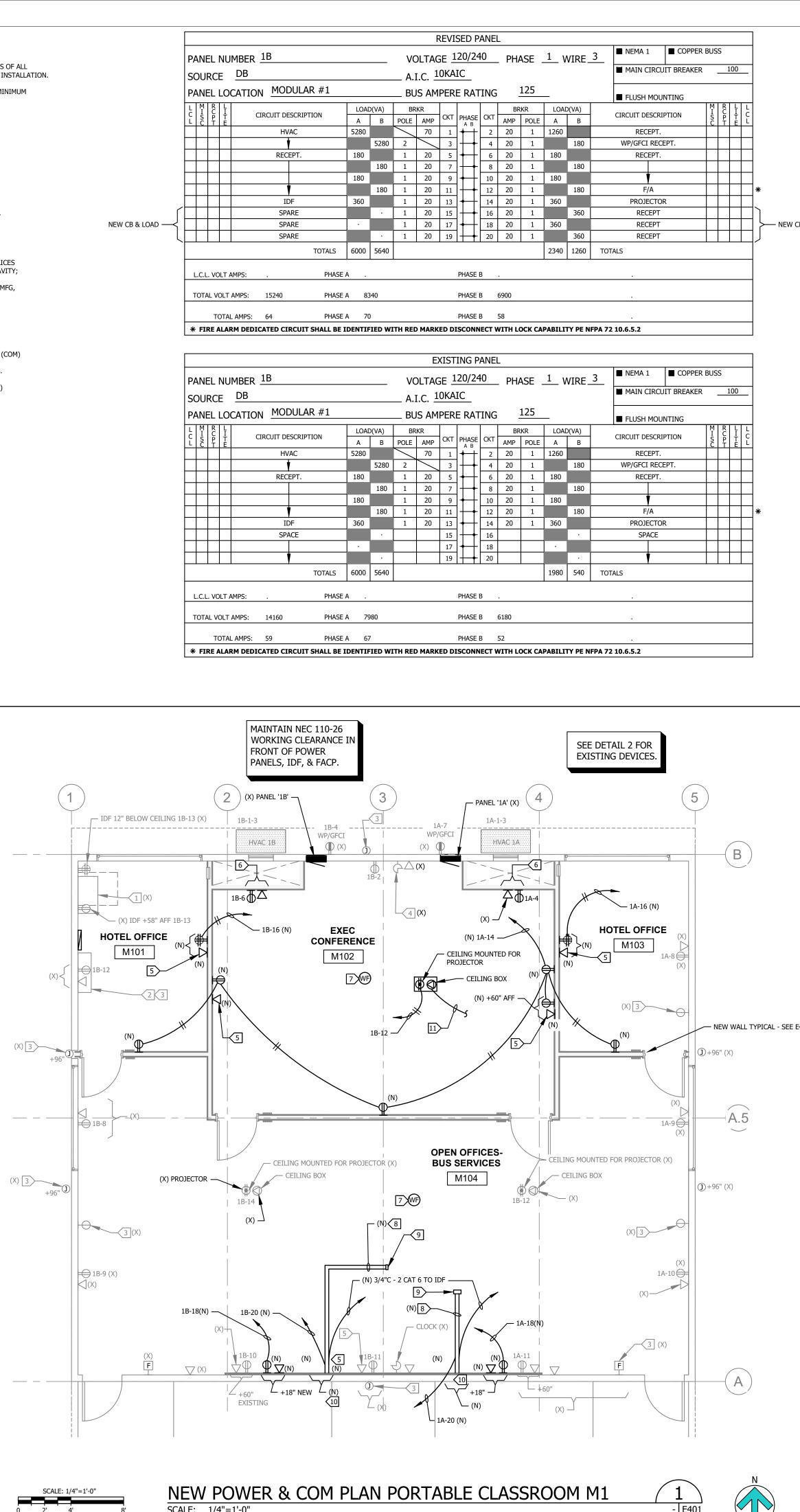


- CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL DEVICES PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
- 2. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED, 1"C MINIMUM

- EXISTING FIRE ALARM EDWARDS E3 PANEL AND BATTERIES.
- 120VAC POWER TO CLOCK FROM 1B-2
- JACK ON WALL & HOME RUN TO IDF IN MODULAR 1. NO SPLICES & NO CONDULETS, 3/4" CONDUIT FROM BOX TO CEILING CAVITY; (N) IS NEW WORK. ROUTE TO IDF WITH 'J' HOOKS - ADD ADDITIONAL 24 PORT SWITCH IN IDF TO MATCH EXISTING MFG, COORDINATE WITH CAMPUS IT DEPARTMENT.
- MOVE TO OFFICE SIDE ON NEW WALL.
- CONDUCTORS/CABLING FROM POC TO RECEPTACLES/JACKS (COM)
- DOUBLE DUPLEX RECEPTACLE & 2 CAT6 TERMINATED JACKS.
- COM & POWER DROP INTO FLOOR SURFACE RACEWAY ((8))

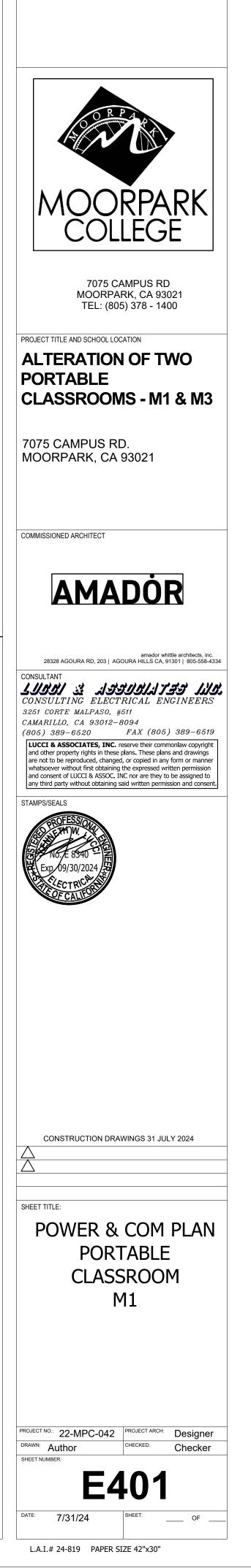






SCALE: 1/4"=1'-0"

0 2' 4'



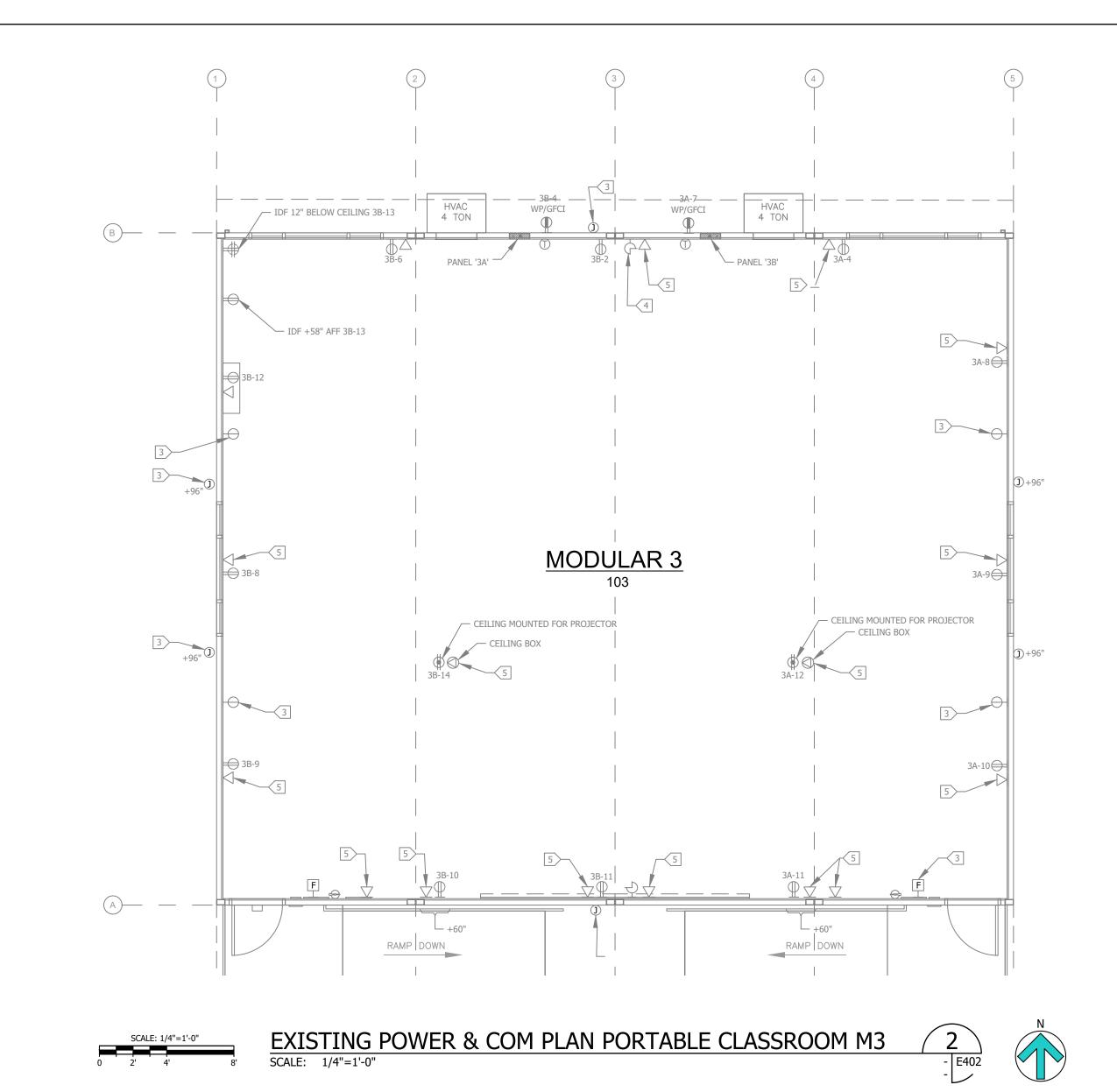
DIVISION OF THE STATE ARCHITECT

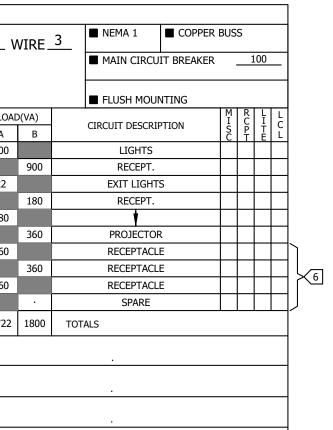
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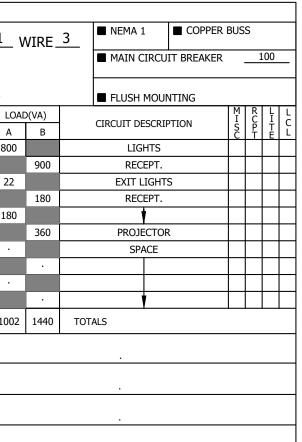
E401

										F	REVI	SE	D P	ANE	_		
	P	ANE	ΞL	NU	MBER <u>3A</u>				VC	DLTAG	ЭЕ <u>1</u>	20	/24	Ю	. PHA	ASE _	1
	S	DU	RC	Е	DB			A.I.C. <u>42KAIC</u>									
			ΞL	LO	CATION MO			BU	S AM	PER	ΕF	RAT	ING	-	125	_	
	L C	MISC	R C P T	L I		CONTION	LOAD	D(VA)	BR	KR					BR	KR	LO
	Ľ	S C	P T	L T E	CIRCUIT DI	CIRCUIT DESCRIPTION				AMP	СКТ			СКТ	AMP	POLE	Α
					H\	AC	5280		$\geq$	70	1	+	+	2	20	1	800
								5280	2	$\geq$	3	+	+	4	20	1	
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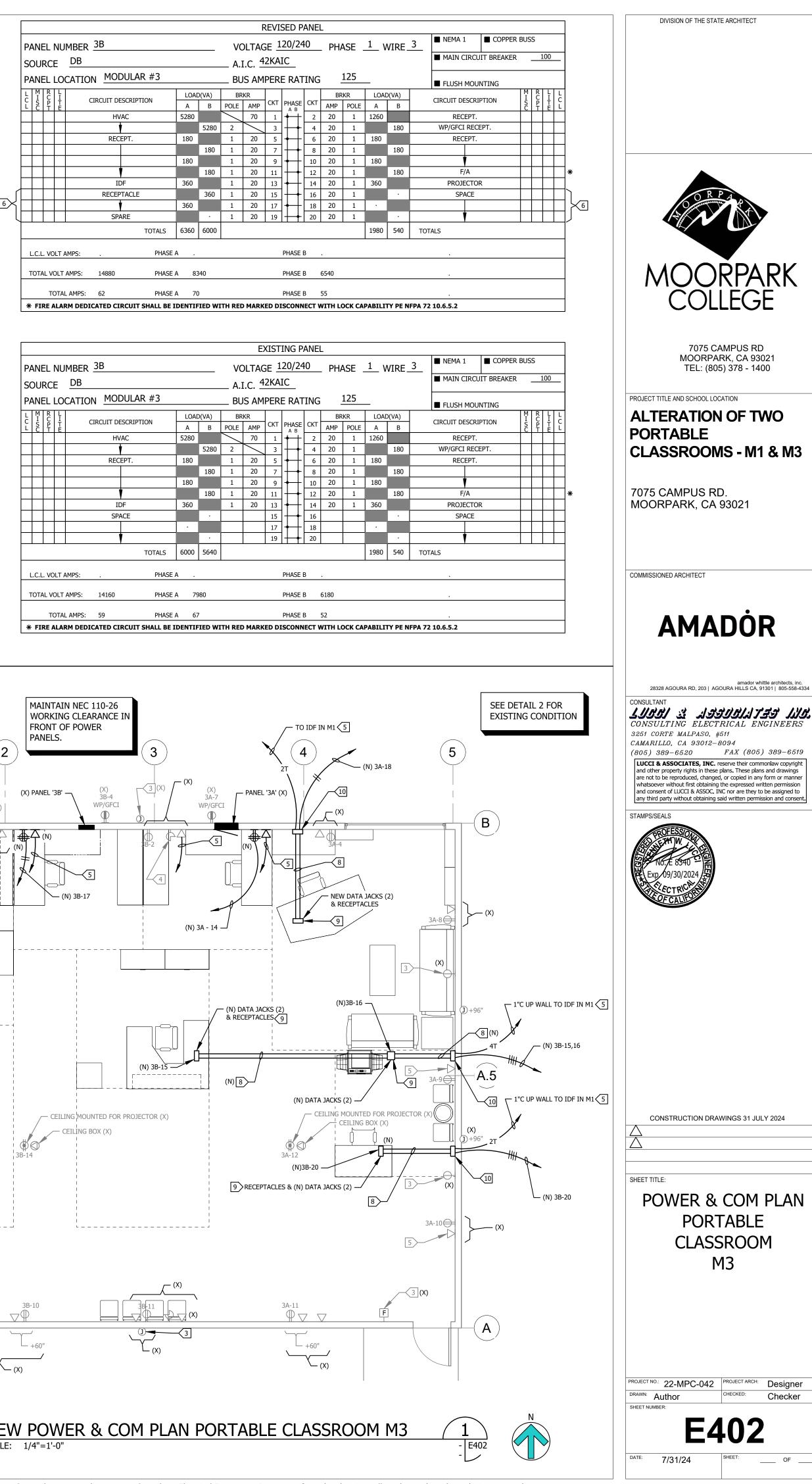
### SHEET NOTES:

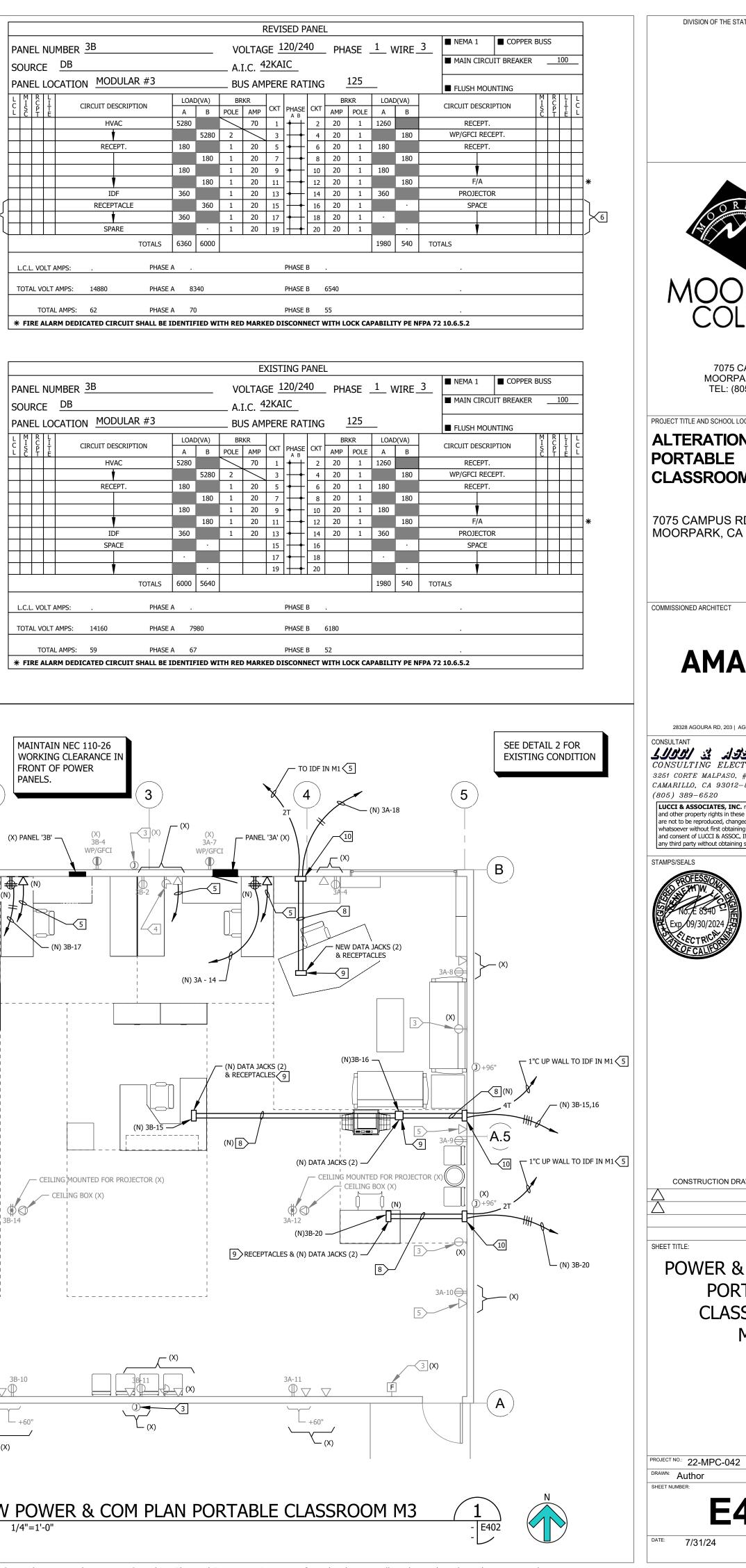
### 1. CONTRACTOR SHALL VERIFY LOCATION AND REQUIREMENTS OF ALL

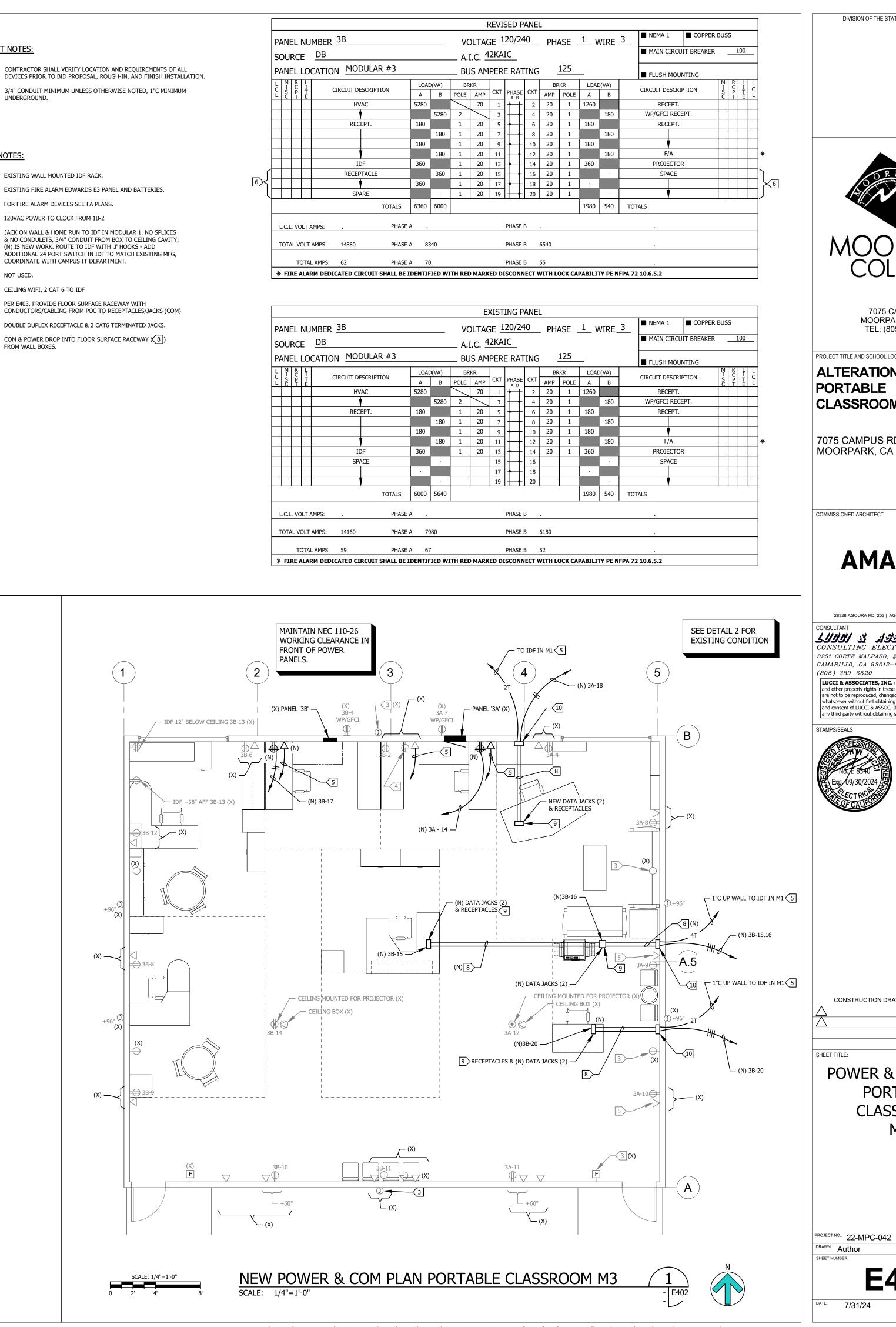
- 2. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED, 1"C MINIMUM UNDERGROUND.

### KEY NOTES:

- 1 EXISTING WALL MOUNTED IDF RACK.
- 2 EXISTING FIRE ALARM EDWARDS E3 PANEL AND BATTERIES.
- 3 FOR FIRE ALARM DEVICES SEE FA PLANS.
- 4 120VAC POWER TO CLOCK FROM 1B-2
- 5 JACK ON WALL & HOME RUN TO IDF IN MODULAR 1. NO SPLICES & NO CONDULETS, 3/4" CONDUIT FROM BOX TO CEILING CAVITY; (N) IS NEW WORK. ROUTE TO IDF WITH 'J' HOOKS - ADD ADDITIONAL 24 PORT SWITCH IN IDF TO MATCH EXISTING MFG, COORDINATE WITH CAMPUS IT DEPARTMENT.
- 6 NOT USED.
- CEILING WIFI, 2 CAT 6 TO IDF
- 8 PER E403, PROVIDE FLOOR SURFACE RACEWAY WITH CONDUCTORS/CABLING FROM POC TO RECEPTACLES/JACKS (COM)
- 9 DOUBLE DUPLEX RECEPTACLE & 2 CAT6 TERMINATED JACKS.
- (10) COM & POWER DROP INTO FLOOR SURFACE RACEWAY ((8)) FROM WALL BOXES.







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CHECKED:

Checker

	<b>La legrand</b> ®	<b>WIREMOLD®</b> OFR Series Over	floor Raceway	
	OFR Series Overflo	or Raceway Ordering Infor	mation	
		Description/Specifications OFR Tee/Cross – For branching OFR Series Raceway at right angles. Remove twistout on cover to make a cross. Country of Origin: USA	Catalog No./Item OFR1	Description/Specifications OFR Coupling – Joins lengt of OFRB-8 OFR Series Race Base together. Sold in pairs Country of Origin: Mexico
	0FR48-2MRTC	9 23/32" (247mm) OFR Transition Box – Allows	OFR9	OFR Grounding Clip – Connects equipment ground conductor to provide ground OFR Series Raceway. No. 1 ground screw provided.
25 pm		cords and cables to make a smooth concealed transition to the underside of the table when used with the InteGreat <sup>™</sup> Transition Channel (MRTC). Country of Origin: USA	2 1/2" (64mm) OFR47-B	Country of Origin: USA
TIME: 12:25 pm	OFR17	<b>OFR Inside Elbow</b> – For internal right angle turns of OFR Series Raceway. <b>Country of Origin: USA</b>	2" (51mm) 5 1/2" (140mm)	covering unused compartme in OFR48-2 and OFR48-4 D Boxes. Country of Origin: Mexico
8 October 2024	6 29/32" C 2	2 1/2" 64mm) 1/2" Imm)	OFR47-D 2" (51mm) 5 1/2" (140mm)	OFR Duplex Device Plate - covering duplex style device OFR48-2 and OFR48-4 Dev Boxes. Accepts 106 Frame. Country of Origin: Mexico
DATE: 8 OC	OFRPT3 12 3/16" (310mm) 7 1/16 (179m) 12 15/16'	<sup>m)</sup> 3" poke-thru.	OFR47-R 2" (51mm) 5 1/2" (140mm)	<b>OFR Decorator Device Pla</b> For covering rectangular de style devices in OFR48-2 ar OFR48-4 Device Boxes. <b>Country of Origin: Mexico</b>
G:\24\819\EL\Sheets\02-MODULAR BUILDINGS	OFRPT4 (329mm)	OFR 4 Inch Poke-Thru Transition – For bringing power, A/V, and data through abandoned Poke-Thru openings to open spaces. Will replace any	OFR47-U	OFR Extron <sup>®</sup> MAAP Device Pl Device plate that will accept four (4) Extron® Electronics style plates in OFR48-2 and OFR48-4 Device Boxes. Country of Origin: USA
PATHNAME: G:\24\819\EL\S	<b>UT legrand</b> ® OFR Series Overfloor	2019 — For latest specs visit www.legrad WIREMOLD® OFR Series Over Raceway Ordering Informa scription/Specifications	floor Raceway tion	Description/Specifications
24-819E403	OFR47-V 2" (51mm) 5 1/2" (140mm)	PFR Extron <sub>®</sub> AAP Device Plate – Device plate that will accept two 2) Extron <sub>®</sub> Electronics AAP single pace modules. Country of Origin: USA	OFR47-U2A	DFR Extron MAAP-2A Combo Device Plate – Combination device plate that will accept up o two (2) Extron Electronics MAAP style plates and up to wo (2) ports of communications devices. Includes adapters for Drtronics <sup>®</sup> TracJack, Series II, Pass & Seymour Activate insert
FILENAME:	P	late – Device plate that will		and Wiremold Open System communication modules.
Drawing Filename: 2	2" (51mm) 5 1/2" (140mm) P au 5 1/2" (140mm) in	late – Device plate that will ccept up to four (4) ports of ommunications devices. Includes dapters for Ortronics® TracJack, eries II, Pass & Seymour® Activate iserts and Wiremold Open System ommunication modules.		
DRAFTER: CM02 DRAWING FILENAME: 2	2" (51mm) 5 1/2" (140mm) C	ccept up to four (4) ports of ommunications devices. Includes dapters for Ortronics® TracJack, eries II, Pass & Seymour® Activate iserts and Wiremold Open System		communication modules.
DRAWING FILENAME:	2" (51mm) 5 1/2" (140mm) C	ccept up to four (4) ports of ommunications devices. Includes dapters for Ortronics® TracJack, eries II, Pass & Seymour® Activate iserts and Wiremold Open System ommunication modules.		communication modules.

	<b>La legran</b> c	WIREMOLD® OFR Series Over	floor Raceway		L <sup>T</sup> legrand <sup>®</sup>	<b>wiremold</b> ® OFR Series Overfloor Raceway	
	<b>OFR</b> Series Overf	loor Raceway Ordering Infor	mation				
<u>.                                    </u>	Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications		Multiple Services in a Low Profile	
ths eway	OFRBC-8	Overfloor Raceway Base & Cover – Cover: 0.040" (1.0mm)	OFR10IW	Overfloor Raceway In-Wall Entrance End Fitting – Feeds		Overfloor Raceway	
		steel. Base: 0.080" (2.0mm) aluminum. Durable black powder coat finish. Divided into four		OFR Series Overfloor Raceway from behind wall. Configurable to provide one or two channels of		OFR Series Overfloor Raceway System provides four-channels of capacity and access to a wide range of power, communications,	
		channels. Packed one (1) 8' (2.4m) length of base and cover		provide one of two channels of power. Has 1/2" trade size KO for single channel and 3/4" trade KO		and A/V connectivity options in the smallest, lowest, narrowest, ADA compliant profile available in overfloor raceway systems. This	
		per carton.	9 15/32"	for two channel.		system installs over existing floor coverings and is both tamper- resistant and installer-friendly, making it an ideal solution for	
ding	6 7/8" (175mm)	Country of Origin: USA 1/2" -(12.7mm)	(241mm)	Country of Origin: Mexico		relocatable or permanent installations where access through floors and ceilings is not an option. There are also transition fittings to feed OFR Series Raceway from Wiremold wall-mounted	
d to 0		NOTE: Not recommended for use in high traffic areas.		(196mm) 3 1/4" (83mm)		raceway systems and Vista Architectural Columns. OFR Series Raceway accepts Wiremold Open System device plates that provide	
	OFRB-8	Overfloor Raceway Base –	'5 7/16" (138mm)	3 15/32" (88mm)		connectivity to a wide range of devices from leading communication and A/V providers.	
	////	Base: 0.080" (2.0mm) aluminum. Divided into four channels.	 5/32" (4mm)	. (comm)	OFR Series Raceway provides access to power, A/V, and commu		
		Packed four (4) 8' (2.4m) lengths per carton.	OFR10A	Overfloor Raceway Entrance	services to open-space areas in an ADA compliant low profile de		
For	6" (152mm)	Country of Origin: USA	$\frown$	End Fitting – Feeds OFR Series Raceway. Has two (2) concentric			
ents evice		7/16" (11.1mm) NOTE: Not recommended for use in	$\langle \rangle$	1/2" and 1 1/4" trade size KOs on end. Includes removable divider	Features & Benefits		
		high traffic areas.	4 1/2" (114mm)	that can be positioned to feed any raceway channel. Can be used	<ul> <li>Lowest profile overfloor raceway available. Sm narrower, lower raceway profile reduces potenti based while class based in the first loss for the pro-</li> </ul>	al trip wood, etc. so there is no need to remove or alter existing	
	OFRC-8	Overfloor Raceway Cover – Cover: 0.040" (1.0mm) steel.	2 5/8"	to feed raceway from wall or into furniture.	hazards while also being installer friendly to spe installations.	installations.	
- For		Durable black powder coat finish. Packed four (4) 8' (2.4m) lengths	3 1/2" 6 (1) (89mm)	15/16" Country of Origin: Mexico 176mm)	<ul> <li>Installs in open space areas. Provides power, communication, and A/V wiring to areas where in ceiling distribution are not accessible options.</li> </ul>	<ul> <li>Multiple transition options. Transition fittings are available to feed OFR Series Raceway from Wiremold DS4000<sup>™</sup>, 4000<sup>®</sup>, and 2400 Series<sup>™</sup> wall-mounted raceway systems</li> </ul>	
es in ice		of cover per carton.	OFR48-2	Overfloor Raceway 2-Gang Box –	<ul> <li>Multiple channel base. Four-channel raceway pression</li> </ul>	rovides and also from Vista Architectural Columns.	
	6 7/8" (175mm)	1/2" 12.7mm)	21/4	Divided two-gang device box. Allows multiple services (power,	space for multiple combinations of power, comm and A/V to be provided through a single raceway installation.		
	1	NOTE: Not recommended for use in high traffic areas.	2 1/4" (57mm)	communication, A/V) at a single point-of-use. Side facing device	Black powder coat finish. Durable textured finish	h resists • Meets ADA Accessibility Guidelines. Low profile,	
te – corator	OFR6	Overfloor Raceway Seam Clip –	7" (178mm) (178mm)	, I 5	scuffing and scratches and blends with most dec Multiple options for communication and A/V cor OFR Series Reserves asserts Wissered Orac Sur	nnectivity. that pertain to ADA Standard 4.5 which addresses changes	
nd	19/32" (15.1mm)	Covers seam where two sections of OFR Series Overfloor Raceway			OFR Series Raceway accepts Wiremold Open Sys plates that provide connectivity to a wide range o from leading communication and A/V providers.		
	× e	cover come together.	6 15/ (176n	/16" with any of the raceway channels. nm) Country of Origin: Mexico	<ul> <li>Re-energize abandoned poke-thru holes. Bring</li> </ul>		
	7 5/32"	Country of Origin: Mexico			variety of services to the work surface by re-usin openings from previous poke-thru installations.	ig existing	
late – t up to	(182mm)		OFR48-4	Overfloor Raceway 4-Gang Box – Divided four-gang device box.			
MAAP	(38m) 0FR10B	Overfloor Raceway Blank	2 1/4" (57mm)	Allows multiple services (power, communication, A/V) at a single point-	Vertical Markets		
	3/4" (19.1mm)	<b>End Fitting</b> – Blank end fitting for — OFR Series Raceway.	(457m	m) of-use. Side facing device mounting provides low profile, with space for		tertainment	
	1/2"		7" (178mm) (17	large cable bend radius. Accepts OFR Series device plates. Removable	Commercial     Education     Re	tail	
	1/2" (12.5mm)	Country of Origin: USA		dividor can be aligned with any of the			
5		rch 2019 — For latest specs visit www.legra	nd.us/wiremold	<sup>2<sup>n</sup></sup> raceway channels. Country of Origin: Mexico 3	<b>Compliance</b> cETLus Listed. ED1647R9 — Updated March 2019 — For latest specs visit v		
5	ED1647R9 — Updated Mar		(318m nd.us/wiremold	raceway channels. Country of Origin: Mexico	cETLus Listed. ED1647R9 — Updated March 2019 — For latest specs visit v		
5	<b>La legrand</b> ®	rch 2019 — For latest specs visit www.legra WIREMOLD®	nd.us/wiremold	raceway channels. Country of Origin: Mexico	cETLus Listed. ED1647R9 — Updated March 2019 — For latest specs visit v	OLD® es Overfloor Raceway	
5	<b>OFR</b> Series Overfloo	rch 2019 — For latest specs visit www.legra <b>WIREMOLD</b> ® OFR Series Over	nd.us/wiremold floor Raceway tion	raceway channels. Country of Origin: Mexico	cETLus Listed. ED1647R9 — Updated March 2019 — For latest specs visit v Citegrand® WIREMO OFR Serie	OLD® es Overfloor Raceway yout	
5	<b>OFR</b> Series Overfloo	rch 2019 — For latest specs visit www.legra WIREMOLD® OFR Series Over r Raceway Ordering Informa Description/Specifications OFR Crossover Kit –	rfloor Raceway tion <u>Catalog No./Item</u> OFR89-VIS	Description/Specifications OFR Vista Point5 Transition –	CETLUS Listed. ED1647R9 — Updated March 2019 — For latest specs visit of the operation of	OLD® es Overfloor Raceway yout BC-8 Overfloor Raceway Base & Cover 11 90° Flat Elbow	
5	<b>UT legrand</b> ® OFR Series Overfloo Catalog No./Item	rch 2019 — For latest specs visit www.legra WIREMOLD® OFR Series Over r Raceway Ordering Informa Description/Specifications OFR Crossover Kit – Allows access to power and communication on both sides of	(318m nd.us/wiremold floor Raceway tion <u>Catalog No./Item</u> OFR89-VIS 5 1/16"	Description/Specifications	CETLUS Listed. ED1647R9 — Updated March 2019 — For latest specs visit v WIREMO OFR Series OFR Series Overfloor Raceway System Lat OFR Series Overfloor Raceway System Lat	OLD® es Overfloor Raceway yout BC-8 Overfloor Raceway Base & Cover 11 90° Flat Elbow 48-2 Two-Gang Device Box 48-4 Four-Gang Device Box	
5	OFR Series Overfloo Catalog No./Item OFR48-4GX	rch 2019 — For latest specs visit www.legra WIREMOLD® OFR Series Over r Raceway Ordering Informa Description/Specifications OFR Crossover Kit – Allows access to power and	(318m nd.us/wiremold floor Raceway tion <u>Catalog No./Item</u> OFR89-VIS	Description/Specifications OFR Vista Point5 Transition – For connecting OFR Series Raceway to Vista Point5	CETLUS Listed. ED1647R9 — Updated March 2019 — For latest specs visit v WIREMO OFR Series OFR Series Overfloor Raceway System Lat OFR Series Overfloor Raceway System Lat	OLD® es Overfloor Raceway yout BC-8 Overfloor Raceway Base & Cover 11 90° Flat Elbow 48-2 Two-Gang Device Box 48-4 Four-Gang Device Box 100W In-Wall Entrance End Fitting 89-4000 4000 Series Raceway Transition Fitting	
	<b>OFR Series Overfloo</b> Catalog No./Item OFR48-4GX	The second secon	nd.us/wiremold of loor Raceway tion Catalog No./Item OFR89-VIS <sup>5</sup> 1/16" (129mm) 1/4" 9 3/16" 9 3/16" (233mm) (233mm)	Description/Specifications OFR Vista Point5 Transition – For connecting OFR Series Raceway to Vista Point5 Architectural Columns.	CETLUS Listed. ED1647R9 — Updated March 2019 — For latest specs visit v WIREMO OFR Series OFR Series Overfloor Raceway System Lat OFR Series Overfloor Raceway System Lat OFR OFR OFR OFR OFR OFR OFR OFR OFR	OLD® es Overfloor Raceway yout BC-8 Overfloor Raceway Base & Cover 11 90° Flat Elbow 48-2 Two-Gang Device Box 48-4 Four-Gang Device Box 100W In-Wall Entrance End Fitting 89-4000 4000 Series Raceway Transition Fitting	
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	<b>OFR Series Overfloo</b> Catalog No./Item OFR48-4GX	The second state of the se	nd.us/wiremold of loor Raceway tion Catalog No./Item OFR89-VIS <sup>5</sup> 1/16" (129mm) 1/4" 9 3/16" 9 3/16" (233mm) (233mm)	Description/Specifications OFR Vista Point5 Transition – For connecting OFR Series Raceway to Vista Point5 Architectural Columns. Country of Origin: USA	CETLus Listed. ED1647R9 – Updated March 2019 – For latest specs visit of OFR Series OFR Series Overfloor Raceway System Lat OFR Series Overfloor Raceway System Lat OFR OFR OFR OFR OFR OFR OFR OFR OFR OFR	OLD® es Overfloor Raceway yout BC-8 Overfloor Raceway Base & Cover 11 90° Flat Elbow 48-2 Two-Gang Device Box 48-4 Four-Gang Device Box 100W In-Wall Entrance End Fitting 89-4000 4000 Series Raceway Transition Fitting	
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	Catalog No./Item OFR Series Overfloo Catalog No./Item OFR48-4GX 6 3/4" (711mm) (121/2") (21/8"	Country of Origin: Mexico WIREMOLD® OFR Series Over MIREMOLD® OFR Series Over OFR Series Over Correst Content of Co	(318m nd.us/wiremold floor Raceway tion Catalog No./Item OFR89-VIS 5 1/16" 9 3/16" (233mm) (233mm) (233mm) (233mm) (233mm) (233mm) (19m	2"       raceway channels.         Country of Origin: Mexico         3         Description/Specifications         OFR Vista Point5 Transition –         For connecting OFR Series         Raceway to Vista Point5         Architectural Columns.         Country of Origin: USA         6 1/4"         (159mm)         OFR Large Vista Transition –         For connecting OFR Series	CETLUS Listed. ED1647R9 – Updated March 2019 – For latest specs visit v OFR Series Overfloor Raceway System Lat OFR Series Overfloor Raceway System Lat OFR OFR OFR OFR OFR OFR OFR OFR OFR	OLD® es Overfloor Raceway yout	
	<section-header></section-header>	A chi 2019 — For latest specs visit www.legra WIREMOLD® OFR Series Over OFR Series Over T Raceway Ordering Informa Description/Specifications OFR Crossover Kit – Allows access to power and communication on both sides of OFR48-4 4-Gang Device Box. Country of Origin: USA Overfloor Raceway Wire Clips – For holding conductors in place. Packed twelve (12) per pack. Country of Origin: Mexico 3/8" Smm)	(318m nd.us/wiremold floor Raceway tion Catalog No./Item OFR89-VIS 5 1/16" 9 3/16" (233mm) (233mm) (233mm) (233mm) (233mm) (233mm) (19m	Zim)       raceway channels.         Country of Origin: Mexico         3         Description/Specifications         OFR Vista Point5 Transition –         For connecting OFR Series         Raceway to Vista Point5         Architectural Columns.         Country of Origin: USA         6 1/4"         (159mm)	CETLUS LISTED. ED1647R9 - Updated March 2019 - For latest specs visit of MIREMO OFR Series Overfloor Raceway System Lat OFR Series Overfloor Raceway System	OLD® es Overfloor Raceways yout	
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	CFR89-2400 CFR89-400	Ch 2019 – For latest specs visit www.legra WIREMOLD® OFR Series Over r Raceway Ordering Informa Description/Specifications OFR Crossover Kit – Allows access to power and communication on both sides of OFR48-4 4-Gang Device Box. Country of Origin: USA Overfloor Raceway Wire Clips – For holding conductors in place. Packed twelve (12) per pack. Country of Origin: Mexico 30" Smm) OFR 2400 Raceway Transition – For connecting vertical runs of 2400 & 2400D Series Raceway with OFR Series Raceway. Includes removable divider than can be positioned to feed any raceway channel. Country of Origin: USA OFR 4000 Raceway Transition – For connecting vertical runs of 4000 Series Raceway. Includes removable divider than can be positioned to feed any raceway channel. Country of Origin: USA OFR 4000 Raceway Includes removable divider than can be positioned to feed any raceway channel. Country of Origin: USA	(318m nd.us/wiremold effloor Raceway tion Catalog No./Item OFR89-VIS 5 1/16" (5 1/16" (5 1/16" (5 1/16") 0 FR89-VFL 6 9/32" (100 0 FR89-VFL 6 9/32" (100 0 FR89-VFL 6 9/32" (221mm) 0 FR89-VFL 6 9/32" (221mm) 0 FR89-VFL 6 9/32" (221mm) 0 FR89-VFL 6 9/32" (221mm) 0 FR89-VFL 6 9/32" (221mm) 0 FR89-VFL 6 9/32" (221mm) 0 FR89-VFL 0 FR8	<b>Description/Specifications Description/Specifications OFR Vista Point5 Transition –</b> For connecting OFR Series         Raceway to Vista Point5         Architectural Columns. <b>Country of Origin: USA</b> 6 1/4"         0FR Large Vista Transition –         For connecting OFR Series         Raceway to Vista Architectural Columns. <b>OFR Large Vista Transition –</b> For connecting OFR Series         Raceway to Vista Architectural Columns. <b>Other Large Vista Transition –</b> For connecting OFR Series         Raceway to Vista Architectural Columns. <b>Country of Origin: USA J</b> 1/16" <b>OFR Flat Elbow</b> – For making fight angle turns on the same surface. <b>OFR Flat Elbow</b> – For making diagonal 45° turns on the same surface.	CETLUS Listed. ED1647R9 – Updated March 2019 – For latest specs visit v MIREMO OFR Series OFR Series Overfloor Raceway System Lat OFR Series Overfloor Raceway System Lat U U U U U U U U U U U U U U U U U U U	OLD®           es Overfloor Raceway           yout	
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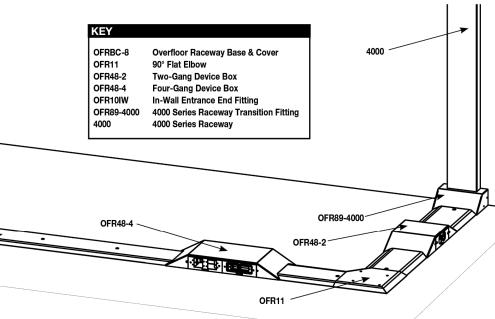
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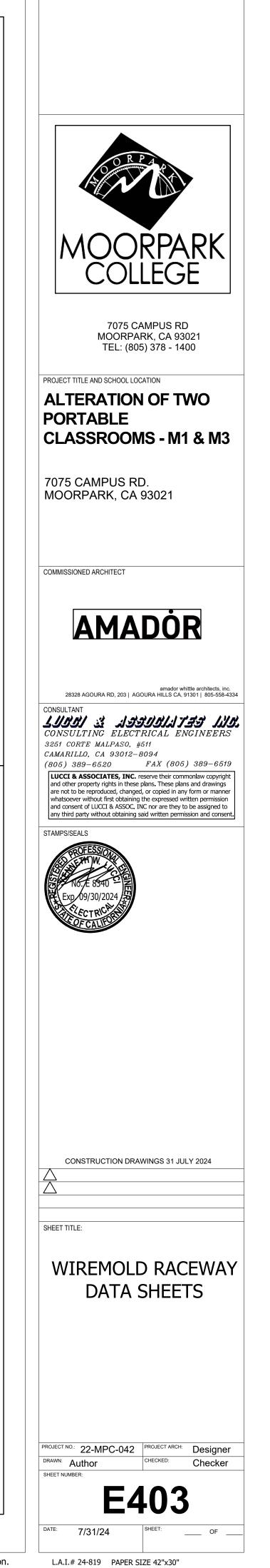






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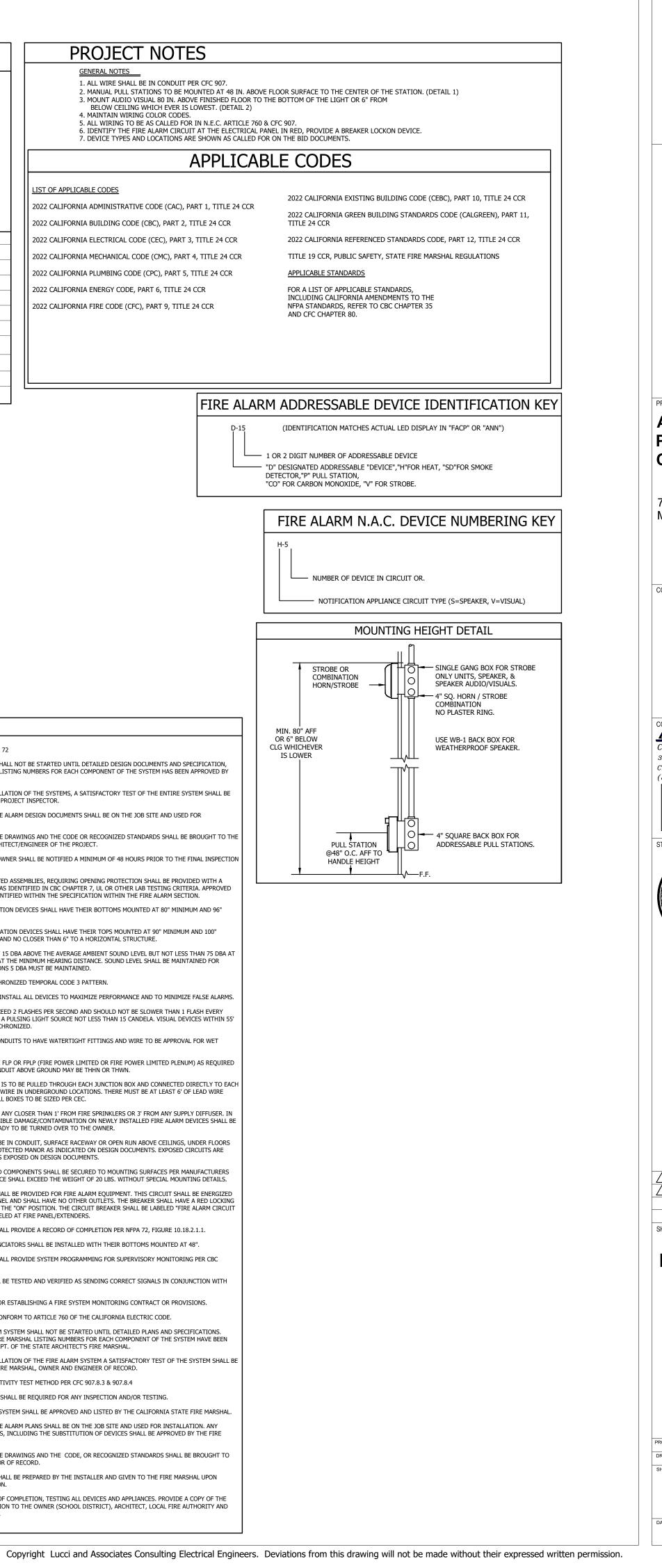
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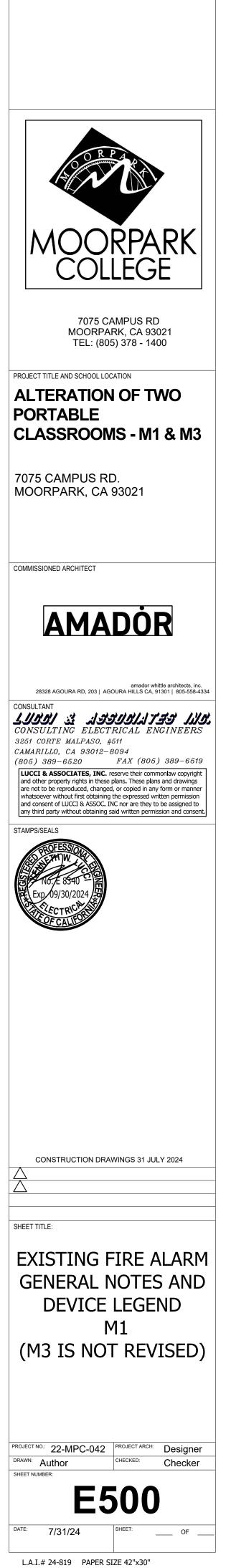
SYMBOL	MODEL	MAKE	DESCRIPTION	CSFM #	MOUNTING
	EST3	EST	-NEW MAIN FIRE ALARM CONTROL PANEL	7165-1657:0186	-WALLBOX PROVIDED
	3-CAB14B	EST	-ENCLOSURE	7165-1657:0186	-MOUNTS TO WALL
ľ	3-CAB14D	EST	-DOOR ASSEMBLY FOR 3-CAB7	7165-1657:0186	-MOUNTS ON 3-CAB7B
ſ	3-CHAS7	EST	-CHASSIS ASSEMBLY FOR 7 LRMS	7165-1657:0186	-1 CHASSIS SPACE IN WALLBOX
Ī	3-CPU3	EST	-CENTRAL PROCESSING UNIT	7165-1657:0186	-MOUNTS ON RAIL
ſ	3-LCD	EST	-CPU LCD DISPLAY	7165-1657:0186	-MOUNTS ON RAIL
Γ	3-RS485B	EST	-NETWORK COMMUNICATION CARD	7165-1657:0186	-MOUNTS ON RAIL
FACP	3-DACT-E3	EST	-DIGITAL ALARM COMMUNICATOR	7165-1657:0186	-MOUNTS ON RAIL
Γ	3-SSDC1	EST	-SINGLE SIGNATURE DRIVER CONTROLLER	7165-1657:0186	-MOUNTS ON RAIL
Ī	3-LRMF	EST	-BLANK LRM FILLER	N/A	-MOUNTS ON RAIL
Ī	3-PPS/M	EST	-PRIMARY POWER SUPPLY	7165-1657:0186	-MOUNTS IN WALLBOX SEE RISER
Ī	SLA1116	POWER PATROL	-7.0 AH BATTERY	N/A	-MOUNTS IN WALLBOX MINIMUM 2/21 MANUFACTURER DATE STAMP
Γ	3-ASU/4	EST	-AUDIO SOURCE UNIT	7165-1657:0186	-MOUNTS ON RAIL
Ī	3-ZA20B	EST	-20 WATTS ZONE AMPLIFIER	7165-1657:0186	-MOUNTS ON RAIL
Ī	3-INI-VG	EST	-VOICE GATEWAY	7165-1657:0186	-MOUNTS ON RAIL
ſ	3-INCC-C	EST	-VOICE EVAC COMMAND CENTER	7165-1657:0186	-MOUNTS ON RAIL
AMP1		EST	VOICE COMMUNICATION ACCESSORIES	6912-1657:0237	ANS50MD2
AOM		EST	ACCESSIBLE RELAY MODULE		
-	G4HFWF-S7VMC	EST	-SPEAKER/STROBE 15 CANDELA (W=WALL C=CEILING)	7320-1657:0211	-4"SQUARE BOX WITH SINGLE GANG RIN
CD F SV⊲	G4HFWF-S7VMC	EST	-SPEAKER/STROBE 30 CANDELA (W=WALL C=CEILING)	7320-1657:0211	-4"SQUARE BOX WITH SINGLE GANG RIN
	G4HFWF-S7VMC	EST	-SPEAKER/STROBE 75 CANDELA (W=WALL C=CEILING)	7320-1657:0211	-4"SQUARE BOX WITH SINGLE GANG RIN
CD	G1-FVM	EST	-STROBE 15 CANDELA (W=WALL C=CEILING)	7125-1657:0218	-4"SQUARE BOX WITH SINGLE GANG RIN
	G1-FVM	EST	-STROBE 30 CANDELA (W=WALL C=CEILING)	7125-1657:0218	-4"SQUARE BOX WITH SINGLE GANG RIN
	WG4WF-SVMC	EST	-STROBE/SPEAKER - WP = WEATHER PROOF	7320-1567:0289	WG4 (74347U) - 4" SQ BOX
Ρ	SIGA-270	EST	-MANUAL PULL STATION	7150-1657:0129	-4"SQUARE BOX WITH SINGLE GANG RIN -SINGLE GANG RING OR OUTLET - BREAH GLASS TYPE (NOT ACKNOWLEDGE)
	SIGA-PD	EST	-SMOKE DETECTOR	7272-1657:0331	-MOUNTS TO SIGA-SB BASE
©	SIGA-SB	EST	-BASE		-4" SQ. BOX WITH 3" "O" RING
	SIGA-HRD	EST	-HEAT DETECTOR		-MOUNTS TO SIGA-SB BASE
	SIGA-SB	EST	-BASE		-4" SQ. BOX WITH 3" "O" RING
T SP WP	WG4RF-S	EST	-25V SPEAKER - 2W	7320-1657:0289	-4" SQ. DEEP ELECTRICAL BOX (74347U (WG4) WEATHER PROOF BOX WET LOCATION)
			WIRE LEGEND		

TYPE	CONDUCTORS	SIZE	TYPE CABLE	CIRCUIT DESCRIPTION	WIRE COLOR SCHEME	LIST								
Z	2	#18AWG	FPL	ADDRESSABLE DEVICE CIRCUIT	RED (+), BLACK (-)	UL AQ224 1424/5								
S	2	#12AWG	THHN	SPEAKER CIRCUIT	RED (+), BLACK (-)	UL 83								
V	2	#14AWG	THHN	STROBE CIRCUIT	YELLOW (+), BLUE (-)	UL 83								

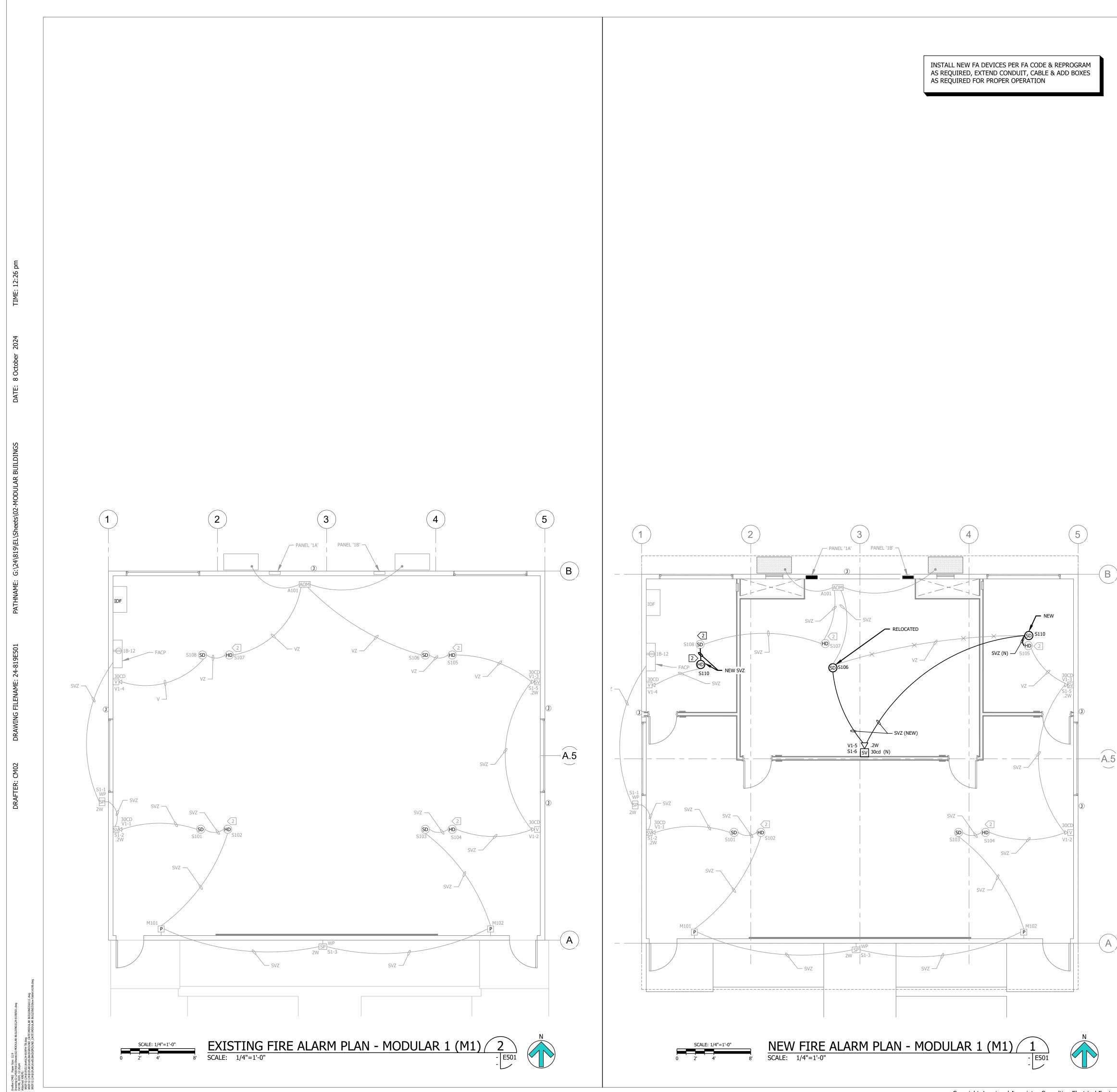


] [	SEQUENCE	OF (	OPE	RAT	ĪOI	N					PROJECT NOTES
	ACTION					il For All To	VAL TO	E REMOTE POWER SUPPLY (FCPS)	DROP SPEEAKERS & VISUAL ALARMS FROM F.A. SYSTEM		GENERAL NOTES 1. ALL WIRE SHALL BE IN CONDUIT PER CFC 907. 2. MANUAL PULL STATIONS TO BE MOUNTED AT 48 IN. A 3. MOUNT AUDIO VISUAL 80 IN. ABOVE FINISHED FLOOD BELOW CEILING WHICH EVER IS LOWEST. (DETAIL 2 4. MAINTAIN WIRING COLOR CODES. 5. ALL WIRING TO BE AS CALLED FOR IN N.E.C. ARTICLE 6. IDENTIFY THE FIRE ALARM CIRCUIT AT THE ELECTRIC 7. DEVICE TYPES AND LOCATIONS ARE SHOWN AS CALL
-		BUILDING	LE BUZZ	RESSABI	T PANEL	FROUBLE SIGNA COMPONENTS IG STATION	RM SIGN	'E POWE	RS & VIS	NN	APPLIC
	DEVICE	THROUGHOUT BU     SOUND GENERAL	SOUND TROUBLE BUZZER	ACTIVATE ADDRESSABLE MODULE     FOR MONITORING	ANNUNCIATE AT PANEL	TRANSMIT TRO APPLICABLE CC SUPERVISING S	TRANSMIT ALARM SIGNAL     SUPERVISING STATION	ACTIVE REMOT     PANEL (FCPS)	<ul><li>DROP SPEEAKE</li><li>F.A. SYSTEM</li></ul>	HVAC SHUTDOWN	LIST OF APPLICABLE CODES 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CC 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
11 A	NDICATING CIRCUIT FAILURE NITIATING CIRCUIT FAILURE C / BATTERY FAILURE .A. SYSTEM LOW BATTERY		• • • •		• • •		•				2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
┓ ⊢	MOKE DETECTORS	•			•		•	•	•	•	2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
- E	SOLATOR LINE TROUBLE ARTH GROUND FAULT OTIFICATION APPLIANCE CIRCUIT OPEN		•		•	•	•				
	IGNAL LINE SHORT		•		•	•	•		ļ		FIRE AL
ISTING	Scope of work           PROVIDE A NEW ADDRESSABLE EVACUATION FIRE ALARM SYSTEM FOR           MODULAR BUILDINGS. ALL BUILDINGS WILL BE CONNECTED TO ONE E           COMPLETE BUILDING SYSTEM. A SPEAKER SYSTEM WILL BE EMPLOYED           FA SYSTEM SHALL BE CONNECTED TO CAMPUS WIDE F.A. SYSTEM.           PROVIDE A STAND ALONE FIRE ALARM SYSTEM WITH EVACS TO ACC           CLASSROOMS.           NEW FIRE ALARM SYSTEM WILL INCLUDE MANUAL AND AUTOMATIC           EVACUATION.           NEW FIRE ALARM SYSTEM WILL BY MONITORED BY A UL LISTED CEI           907.6.6 AND UTILIZE ALTERNATE MEANS OF COMMUNICATIONS PER	ST3 FACP / FOR VOIC COMMODA DETECTIC	AUTOMATI CE NOTIFI TE NEW N DN AND V ATION PEF	IC TYPE ICATION. MODULAR OICE R CFC							
24/581 WEST PENN	FIRE ALARM ZONE SCHED										
	THE NEW FIRE ALARM SYSTEM IS A EST3 EDWARD ADDRESSABLI INITIATING DEVICE IS ANNUNCIATED AS A UNIQUE ADDRESS OR PANEL AND ANNUNCIATOR.										
	F.A. RACEWAY SIZING (ALL CABLES MINIMUM CONDUIT SIZE SHALL BE 3/4" DIAMET SHALL NOT EXCEED 40% FILL.		COND	UIT)							
							dsa r	EQUIRI	Ed Not	ES	
	THIS SHEET WAS USED FOR EXISTING TO DESIGN. IT IS RECOMMENDED 'HCI' THE ORIGINAL FA SUBCONTRACTOR. BE RETA FOR THIS REMODEL.						2. INSTA INCLU DSA. 3. UPON	ILLATION C	of the sys te fire ma	RSHAL LISTII	NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, NG NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY ON OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE ECT INSPECTOR.
	SCOPE OF WORK IS ADDING A NEW HEAT SMOKE DETECTOR, A FEW NEW HORN ST AND ANY NECESSARY PROGRAMING. DO I DISCONNECT THE EXISTING M1, M2, M3, FIRE ALARM SYSTEM DURING CONSTRUCT OTHERWISE A FIRE WATCH WILL BE REQ	Robes, Not & M4 Tion					INSTA 5. ANY D ATTEM 5. DSA, A AND/C 7. ALL PF PENET TYPE ( 3. WALL MAXIN 0. WALL 10 FEE DURA	LLATION. DISCREPAN NTION OF I ARCHITECT OR TESTIN ENETRATIC RATION F. OF MATER MOUNTED MUM FROM MUM FROM BLE DEVICE ET OR MOF TION OF A	CIES BETW DSA AND T /ENGINEEI G. DNS THROL IRE STOP S IALS SHALL VISUAL NI FINISHED AUDIBLE I FINISHED SS TO BE A RE THAN 111 T LEAST 60	EEN THE DRA HE ARCHITEC AND OWNER STEM AS ID BE IDENTIFI DTIFICATION FLOOR. NOTIFICATION FLOOR AND N T LEAST 15 D 0 DBA AT THI SECTIONS 5	RM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR WINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE T/ENGINEER OF THE PROJECT. R SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION SSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A ENTIFIED IN CBC CHAPTER 7, UL OR OTHER LAB TESTING CRITERIA. APPROVED ED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION. DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" N DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE. BA ABOVE THE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 DBA AT E MINIMUM HEARING DISTANCE. SOUND LEVEL SHALL BE MAINTAINED FOR DBA MUST BE MAINTAINED. IZED TEMPORAL CODE 3 PATTERN.
						:	<ol> <li>THE C</li> <li>VISUA SECON FROM</li> <li>UNDER LOCAT</li> <li>ALL FI</li> </ol>	Contracto al devices ND. The di Each oth Rground Fions. Ire Alarm	DR SHALL A S SHOULD I EVICE SHAI IER SHALL AND EXTEI WIRING S	DJUST/INSTA IOT EXCEED 2 L HAVE A PUI BE SYNCHROI RIOR CONDUI HALL BE FLP (	ALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS. 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY LSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55'
						1	FIRE E FROM .7. SMOK AREA COVEF .8. ALL FI AND I	DEVICE. DO THE BOX E DETECTO OF CONST RED UNTIL IRE ALARM N WALLS I	) NOT SPLI TO THE DE DRS SHALL RUCTION ( THAT ARE CIRCUITS N A NEAT /	CE THE WIRE VICE. ALL BOX NOT BE ANY OR POSSIBLE A IS READY T SHALL BE IN ND PROTECT	<ul> <li>DE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH IN UNDERGROUND LOCATIONS. THERE MUST BE AT LEAST 6' OF LEAD WIRE XES TO BE SIZED PER CEC.</li> <li>CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE O BE TURNED OVER TO THE OWNER.</li> <li>CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS TED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE DOSED ON DESIGN DOCUMENTS.</li> </ul>
						:	20. A DED FROM DEVIC CONTI 21. THE II	FICATIONS DICATED BF THE COMM THE COMM THE COMM THE COMM THE COMM THE COMMENSION	5. No sing Ranch Cir Mon Use A CK The Hai Cuit Id To G Contrac	LE DEVICE SH CUIT SHALL E REA PANEL AI IDLE IN THE ' BE LABELED A TOR SHALL P	IPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS IALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS. BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED ND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT AT FIRE PANEL/EXTENDERS. ROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1. ORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
						:	SECTI 24. SUPER FINAL 25. OWNE	on 901.6.2 RVISORY M ACCEPTAN ER SHALL B	2. ONITORIN NCE TEST. NE RESPONS	g shall be t Sible for es	ROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC ESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH TABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS. RM TO ARTICLE 760 OF THE CALIFORNIA ELECTRIC CODE.
						:	<ol> <li>INSTA INCLU APPRC</li> <li>UPON MADE</li> <li>PROVI</li> </ol>	ILLATION C IDING CALI OVED BY TI COMPLETI IN THE PR IDE SMOKE	DF THE FIR FORNIA ST HE CALIFO CON OF THE ESENCE OF EDETECTO	E ALARM SYS ATE FIRE MA RNIA DEPT. O INSTALLATIO THE FIRE M R SENSITIVIT	TEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS. RSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN IF THE STATE ARCHITECT'S FIRE MARSHAL. ON OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE SYSTEM SHALL BE ARSHAL, OWNER AND ENGINEER OF RECORD. Y TEST METHOD PER CFC 907.8.3 & 907.8.4 L BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
							<ol> <li>ALL D</li> <li>A STA DEVIA MARSI</li> <li>ANY D</li> </ol>	EVICES OF MPED SET TION FROM HAL. DISCREPAN	THE FIRE OF APPRO M APPROVI CIES BETW	Alarm Syste /Ed fire Ala Ed Plans, ing	M SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL. RM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY CLUDING THE SUBSTITUTION OF DEVICES SHALL BE APPROVED BY THE FIRE
							COMP 85. COMP COMP	LETION OF	The Inst NFPA 72 RE Cord of C	ALLATION. CORD OF CO DMPLETION T	BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL UPON MPLETION, TESTING ALL DEVICES AND APPLIANCES. PROVIDE A COPY OF THE O THE OWNER (SCHOOL DISTRICT), ARCHITECT, LOCAL FIRE AUTHORITY AND





DIVISION OF THE STATE ARCHITECT



( A )

### SHEET NOTES:

- 1. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- 2. 3/4" RED CONDUIT MINIMUM UNLESS OTHERWISE NOTED, 1"C UNDER GROUND.
- 3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL COMMUNICATION CABLING PER CABLE MANUFACTURERS RECOMMENDATIONS.
- 4. MAXIMUM 180 DEGREE OF BEND BETWEEN PULL POINTS.
- 5. RUN COMMUNICATION CABLING IN CABLE TRAY TO MAXIMUM EXTENT POSSIBLE. WHERE CABLING IS NOT IN CABLE TRAY, CABLE SHALL BE IN CONDUIT.
- 6. UNIQUELY LABEL BOTH ENDS OF ALL CABLING.

### KEY NOTES:

- 1 PROVIDE ACCESS PANEL AS REQUIRED.
- 2 HEAT DETECTOR IN ATTIC UPPER STRUCTURE.

DO NOT INSTALL SMOKE OR HEAT DETECTORS WITHIN 36" OF SUPPLY OR

RETURN AIR REGISTERS



DIVISION OF THE STATE ARCHITECT

7075 CAMPUS RD MOORPARK, CA 93021 TEL: (805) 378 - 1400

### PROJECT TITLE AND SCHOOL LOCATION **ALTERATION OF TWO** PORTABLE CLASSROOMS - M1 & M3

7075 CAMPUS RD. MOORPARK, CA 93021

COMMISSIONED ARCHITECT

## AMADÓR

amador whittle architects, inc. 28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334 CONSULTANT

LUCCI & ASSUCIATES LUC. CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 (805) 389-6520 FAX (805) 389-6519

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CONSTRUCTION DRAWINGS 31 JULY 2024

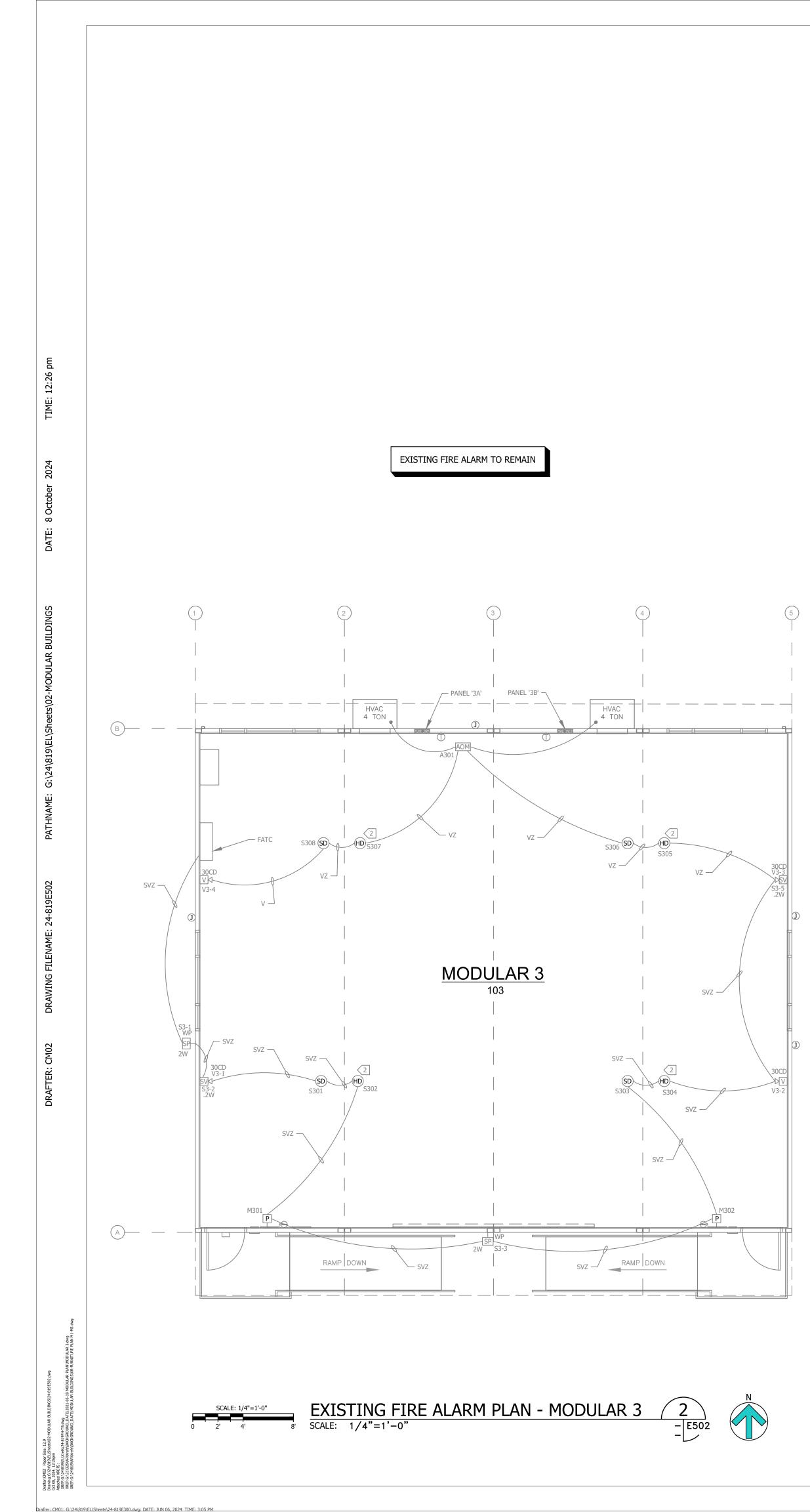
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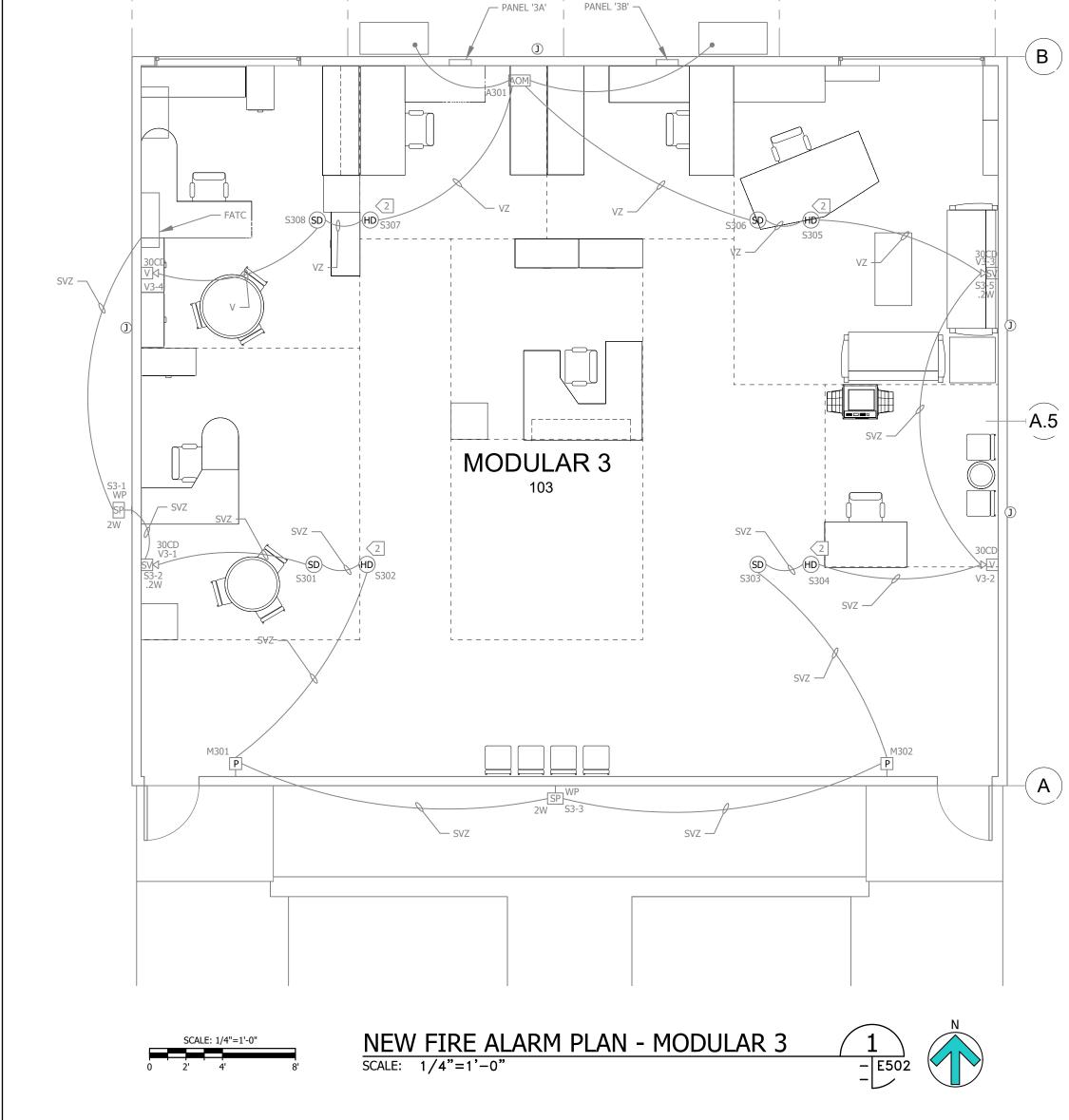
FIRE ALARM PLAN M1

PROJECT NO.: 22-MPC-042 PROJECT ARCH: Designer DRAWN: Author Checker

E501

7/31/24 \_\_\_\_\_ OF \_\_\_\_





EXISTING FIRE ALARM TO REMAIN NO NEW WORK

3

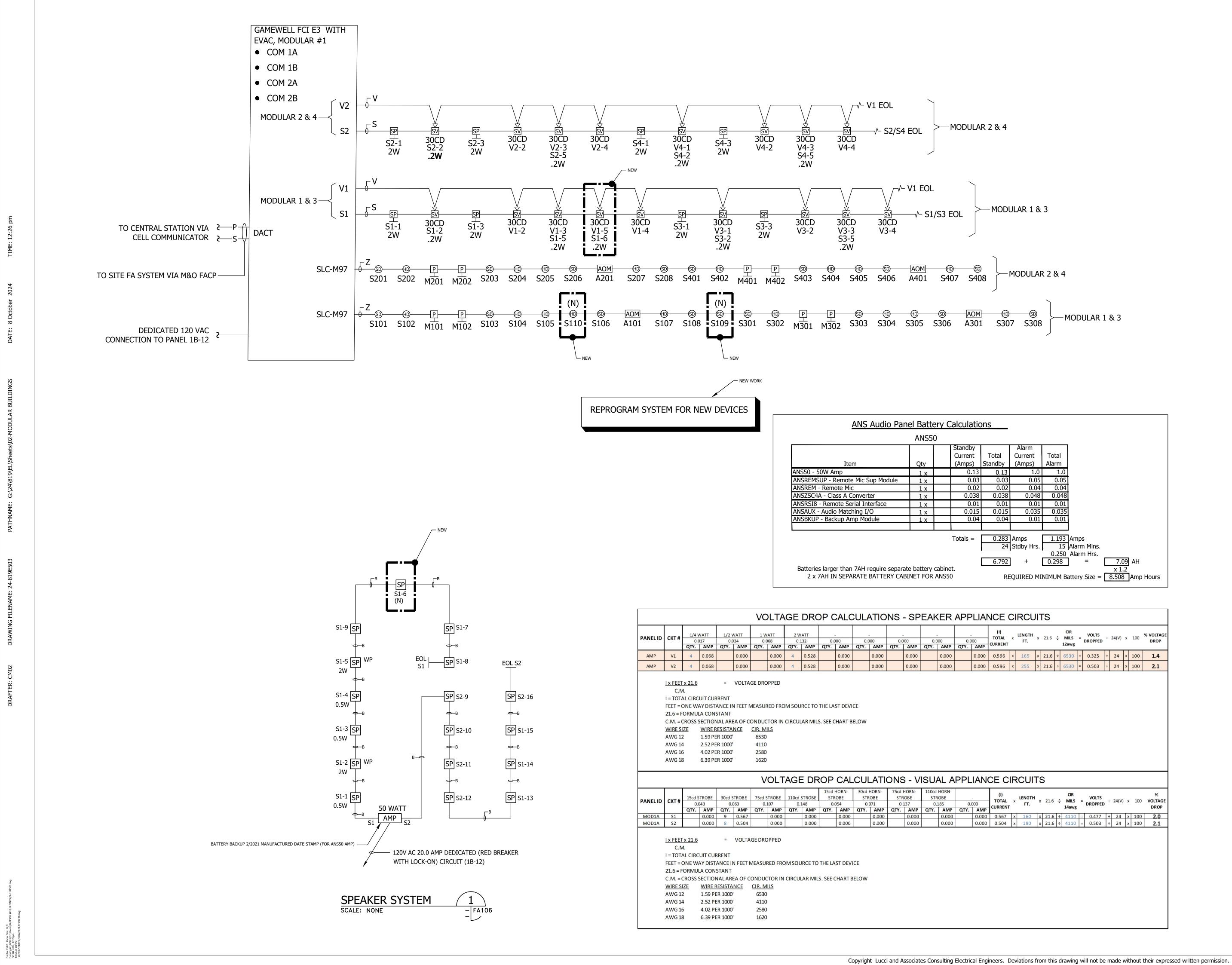
4

(1

2

(5)

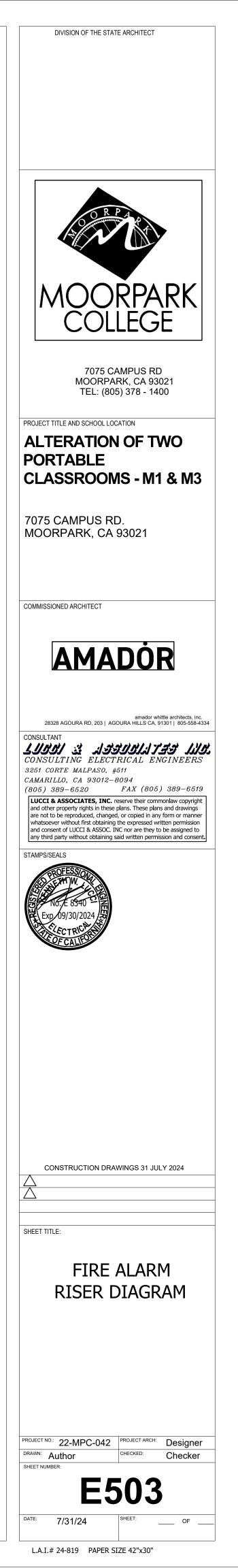
DIVISION OF THE STATE ARCHITECT	
MOORPARK COLLEGE	
7075 CAMPUS RD MOORPARK, CA 93021 TEL: (805) 378 - 1400	
PROJECT TITLE AND SCHOOL LOCATION ALTERATION OF TWO PORTABLE CLASSROOMS - M1 & M3	_
7075 CAMPUS RD. MOORPARK, CA 93021	
COMMISSIONED ARCHITECT	
AMADÓR	
amador whittle architects, inc. 28328 AGOURA RD, 203   AGOURA HILLS CA, 91301   805-558-4334 CONSULTANT <b>JUDDI State Sta</b>	
Exp. 09/30/2024	
CONSTRUCTION DRAWINGS 31 JULY 2024	
$\Delta$	
SHEET TITLE:	
FIRE ALARM PLAN M3	
PROJECT NO.:     22-MPC-042     PROJECT ARCH:     Designer       DRAWN:     Author     CHECKED:     Checker       SHEET NUMBER:     Checker     Checker	-
E502	
L.A.I.# 24-819 PAPER SIZE 42"x30"	



PANEL ID	СКТ #		WATT	1/2 V		1 WA		2 WATT		-	-		-		-		-		(I) IOTAL		GTH	x 21.6	сі - мі		VOLTS		24(V)	x 10	0 %	6 VC
		0. QTY.	017 AMP	0.0 QTY.	34 AMP	0.06 QTY.	8 AMP	0.132 QTY. A		.000 AMP	0.0 QTY.		0.00 QTY.		0.000 QTY. AMP	0. QTY.	.000	-	IRRENT	<sup>^</sup> F	т.	X 21.0	12a		DROPPI	ED .	24(*)	X 10	0	0
AMP	V1	4	0.068	QIII.	0.000		0.000	4 0.		0.000	QIII.	0.000		0.000	0.000	QII.	0.0		0.596	<b>v</b> 1	65	x 21.6	÷ 65	20 =	0.325	· _	24	x 10	0	
		4																				_	_							
AMP	V2	4	0.068		0.000	)	0.000	4 0.	28	0.000		0.000		0.000	0.000		0.0	00 0	0.596	x 2.	55	× 21.6	÷ 653	30 =	0.503	÷	24	× 10	0	
	FEET = ( 21.6 = F	AL CIRC ONE W CORMU CROSS I <u>ZE</u> 2 4	CUIT CUR AY DIST/ LA CONS	RENT Ance In Stant Jal Are Esistai R 1000' R 1000' R 1000'	I FEET N		ed fro 'or in	M SOURCI CIRCULAR																						
											<u></u>																			—
						1/1	ד ור		ROP	CAL			ONIC				I I A													
						V					.001	-711		- VI	ISUAL A	<b>APPI</b>	LIA	NC	E CI	RC	UH	S								
									15cd	HORN-	30cd I	HORN-	75cd H	IORN-	110cd HORN-							S		IR						
PANEL ID	СКТ #		STROBE	30cd S		75cd ST	ROBE	110cd STR	BE ST	I HORN- ROBE	30cd I STR	HORN-	75cd Ho STRO	IORN- DBE	110cd HORN- STROBE		-		(I) TOTAL	LEI	NGTH	x 21.6		iir IILS =		<u>.</u>	24(V	) x 1	00	
PANEL ID	CKT #		043	30cd S 0.0 <b>QTY.</b>		75cd ST 0.10	ROBE		BE ST	HORN- ROBE	30cd I STR	HORN- OBE 071	75cd H0 STRO 0.13	IORN- DBE	110cd HORN-	C	-		(I)	LEI	NGTH		÷ M		VOL1 DROPF	<u>.</u>	24(V	) x 1	00	
MOD1A	<mark>.</mark> <u>\$1</u>	0.	043 AMP 0.000	0.0	63 AMP 0.567	75cd ST 0.10 <b>QTY.</b>	ROBE 07 <b>AMP</b> 0.000	110cd STR 0.148 QTY. A 0.	15cd BE ST 0 MP QTY. 00	HORN- ROBE 0.054 <b>AMP</b> 0.000	30cd I STR 0.0	HORN- OBE 071 <b>AMP</b> 0.000	75cd H0 STRO 0.13 QTY.	IORN- DBE 37 <b>AMP</b> 0.000	110cd HORN- STROBE 0.185 QTY. AMP 0.000	QTY.	- 0.000.0	<b>MP</b>	(I) TOTAL URRENT 0.567	x LEI	NGTH FT.	x 21.6	÷ № 14: ÷ 41	IILS = awg	DROPF	PED ÷	24	x 1	00	
MOD1A MOD1A	<u>\$1</u> \$2	0. QTY.	043 AMP 0.000 0.000	0.0 QTY.	63 AMP	75cd ST 0.10 <b>QTY.</b>	ROBE 07 AMP	110cd STR 0.148 QTY. A 0.	BE 5T ( <b>MP QTY</b> .	HORN- ROBE 0.054 AMP	30cd I STR 0.0	HORN- OBE 071 AMP	75cd H0 STRO 0.13 QTY.	IORN- DBE 37 AMP	110cd HORN- STROBE 0.185 QTY. AMP	QTY.	- 0.000.0	<b>MP</b>	(I) TOTAL URRENT	x LEI	NGTH FT.	x 21.6	÷ № 14: ÷ 41	IILS = awg	DROP	PED ÷		x 1	00	
MOD1A MOD1A	<u>S1</u> S2 <u>I x FEET</u> C.N I = TOT, FEET = 0 21.6 = F	0. QTY. AL CIRC ONE W ONE W CROSS IZE 2 4	043 AMP 0.000 0.000 CUIT CUF AY DIST, LA CON	0.0 QTY. 9 8 RENT ANCE IN STANT NAL ARE ESISTA R 1000' R 1000'	63 AMP 0.567 0.504 VOLTA VOLTA VOLTA A OF CO NCE	75cd ST 0.10 QTY.	ROBE 07 AMP 0.000 0.000 0.000 PPED ED FRO	110cd STR 0.148 QTY. A 0.	15cd       BE     ST       00     00       00     00	I HORN- ROBE 0.054 <b>AMP</b> 0.000 0.000 0.000	30cd I STR 0.( QTY.	HORN- OBE 071 <b>AMP</b> 0.000	75cd H0 STRO 0.13 QTY.	IORN- DBE 37 <b>AMP</b> 0.000	110cd HORN- STROBE 0.185 QTY. AMP 0.000	QTY.	- 0.000.0	<b>MP</b>	(I) TOTAL URRENT 0.567	x LEI	NGTH FT.	x 21.6	÷ № 14: ÷ 41	IILS = awg	DROPF	PED ÷	24	x 1	00	

ANEL ID CKT #	0.0	)17	1/2 V 0.0	34	1 W 0.0	68		132	0.000		.000	0.000		0.00	00	0.0	000	(I) TOTAL CURRENT	x	NGTH FT.	x 2	21.6 ÷	CIR MILS 12awg	= DI	VOLTS ROPPED	÷ 24	(V) x	100	% VOLT DRO
		AMP	QTY.	AMP	QTY.		QTY.		QTY. AN		AMP				AMP	QTY.				105		1.0.			0.225		4	100	1 /
AMP V1	4	0.068		0.000		0.000	4	0.528	0.0		0.000		.000		0.000		0.000	0.596		165		1.6 ÷			0.325		4 x	100	1.4
AMP V2	4	0.068		0.000		0.000	4	0.528	0.0	00	0.000	0.	.000		0.000		0.000	0.596	×	255	x 2	1.6 ÷	6530	=	0.503	÷ 2	4 x	100	2.1
C.I I = TOT FEET = 21.6 =	AL CIRCI ONE WA FORMUL CROSS S <u>SIZE</u> 2	AY DISTA A CONS	RENT ANCE IN STANT IAL ARE ESISTAI R 1000' R 1000'	A OF CO	1easuf	ED FRO TOR IN <u>LS</u>			THE LAST D S. SEE CHAF		I																		
AWG 1		6.39 PE			1620																								
					V	OLT	AGE		ROP C	ALCU	ILATI	ONS	- V	ISUA		PPL	IAN	CE C		CUI	TS								
	T								15cd HOR		d HORN-	75cd HO		110cd															
NELID CKT #	15cd S		30cd S			TROBE		STROBE	STROBE	S	TROBE	STROB	E	STRO	OBE		-	(I) TOTAL	×L	ENGTH	x	21.6 -	CIR HILS	_	VOLTS	÷ 2	4(∨) :	× 100	% VOLT
	0.0	AMP	0.0 <b>QTY.</b>	AMP	0.1 QTY.	07 AMP	0.: QTY.	148 <b>AMP</b>	0.054 QTY. AI		0.071	0.137 QTY.	AMP	0.1 QTY.			000 AMP	CURREN	г	FT.			14aw		OROPPED	)			DR
MOD1A S1		0.000	9	0.567		0.000		0.000	0.0		0.000		.000		0.000		0.000	0.567	x	160	x	21.6	÷ 4110	) =	0.477	÷	24	× 100	2.0
IOD1A S2		0.000	8	0.504		0.000		0.000	0.0	00	0.000	0	.000		0.000		0.000	0.504	x	190	x	21.6	÷ 4110	=	0.503	÷	24	x 100	2.
	<u>T x 21.6</u> M. TAL CIRC		RENT	VOLTA			IM SOL	JRCE TO	THE LAST [	EVICE																			

C.M. = CROSS	S SECTIONAL AREA OF	CONDUCTOR IN CIRCULAR I
WIRE SIZE	WIRE RESISTANCE	CIR. MILS
AWG 12	1.59 PER 1000'	6530
AWG 14	2.52 PER 1000'	4110
AWG 16	4.02 PER 1000'	2580
AWG 18	6.39 PER 1000'	1620



	1.3	Battery Safety Factor	
E	24	Standby Time (Hrs)	<b>ES</b>
E	15	Alarm Time (Mins)	Life Safe
4.02		Calculated Pov	FACP PANEL CALCULA
20.78 Stdby	ed Batteries	Calculate	
Amps (mA)	Qty	ription	Model Number EST3 CPU & Display
145.0	1	al Processor Module	3-CPU3
40.0	1	iquid Crystal Display Module	3-LCD
58.0		32 Communication Card	3-RS232
			SLC Cards (Maximum 10
144.0	1	ature Single Driver Controller (LRM)	3-SSDC1 3-SDDC1
264.0		ature Dual Driver Controller (LRM)	DACT
60.0	1	m Communicator, Dialer & TAP Protocol	3-MODCOMP
			Distributed Audio
80.0		o Source Unit Mic /w 4 Rail Spaces	3-ASU/4
45.0		ote Mic Unit	3-REMICP
45.0		ote Mic Unit	3-REMICP
0.0			
			Panel LEDs and Switches
2.0		ed LED Display Mod	3-24R 3-24V
2.0		el LED Display Mod	3-24Y 3-24G
2.0			Misc. Boards
53.0		ing Device Circuit Module	3-IDC 8/4
0.0			
0.0			
			Copper EST3 Networking
98.0	1	35 Network Card, Copper Class B Audio	3-RS485B
			Fiber EST3 Network
217.0	1	Network Card	3-FIBMB
0.0			
0.0			Fireworks Ethernet Netwo
60.0		IP to RS232 Interface Module	MN-COM1S
350.0		00 Ethernet Network Switching Hub	MN-NETSW1
89.0		Unit, audio encoder/decoder	MN-FVPN
0.0	1	Bridge - 25Vrms for VoIP encoder/decoder	MN-ABPM
0.0			
			External Devices
		ary Load (From Page 2) ary Load (From Page 2)	External Devices
		ary Load (From Page 2) ary Load (From Page 2)	Graphic Annunciator
		, , , , , , , , , , , , , , , , , , , ,	Subtotal EST3 Panel Loa
			Subtotal EST3 Panel Loa
is Alarm Curr	(Standby plu	nternal Power Supplies: 1 (	# o
(Included w/ 3	1	ary Power Supply/Charger	3-PPS/M
50.0	0	ter Power Supply	3-BPS/M
70.0	0	ter Power Supply/Charger	3-BBC/M
		dby / Alarm Load from above	
			Subtotal EST3 Panel Loa
			POWER SUPPLY REQU
4.02		lt= ls + la =	
7.00			
20.78		tdby Time x I supv) + (Alarm Time x I total) =	BATTERYS REQUIRED
27.02		Safety Factor = 1.3	
27.02			

824.0

824.0

4.02 Amps of Power Required 7.00 Amps of Power Provided

20.78 Ah Batteries Required

40.0 Ah Batteries Provided

27.02 Ah Batteries Required w/ Safety Factor

NS			
ST3 Num	ber:	FACP-1	
uilding/Ar	ea.	Moorpark Co	llege 4 Modula
unung	,,,-11 Ca.		
Amps Ah			
Total Stdby		Alarm	
Totai	Sluby	Amps (mA)	Total Alarm
	45.0	155.0	155.0
	40.0 0.0	42.0 58.0	42.0 0.0
	0.0	56.0	0.0
	0.0	204.0	0.0
	264.0	336.0	336.0
	60.0	95.0	95.0
	00.0	90.0	33.0
	0.0	80.0	0.0
	0.0	47.0	0.0
	0.0	47.0	0.0
	0.0	0.0	0.0
			<b>-</b> -
	0.0	36.0	0.0
	.0	36.0	0.0
0.0		36.0	0.0
0.0		250.0	0.0
0.0		350.0 0.0	0.0
0.0		0.0	0.0
0.0		0.0	0.0
98.0		98.0	98.0
21	7 0	017.0	017.0
	7.0 ).0	217.0 0.0	217.0 0.0
	).0 ).0	0.0	0.0
0.0		60.0	0.0
	.0	350.0	0.0
	0.0	89.0	0.0
	0.0	0.0	0.0
0	.0	0.0	0.0
	0.0		0007.0
	0.0		2397.0 0.0
	0.0		0.0
824.0			3340.0
!			
-CPU3 Curr	en	t )	
0.0		50.0	0.0
0.0		70.0	0.0
824.0			3340.0

## EST3 PANEL AUXILIARY LOAD Qty 5cd 17 0cd 75cd 10cd

Qty CPU l Display Module 0 EST Model Number Description Qty

Graphic Annunciator Load

Edwards

3340.0

3340.0

## **EST3 PANEL LOAD CALCULATIONS**

Battery Safety Factor 1.3

Standby Time (Hrs) 24

Alarm Time (Mins) 15

Calculated Power Supply

Calculated Batterie

Calculated Power Supply:

Calculated Batteries

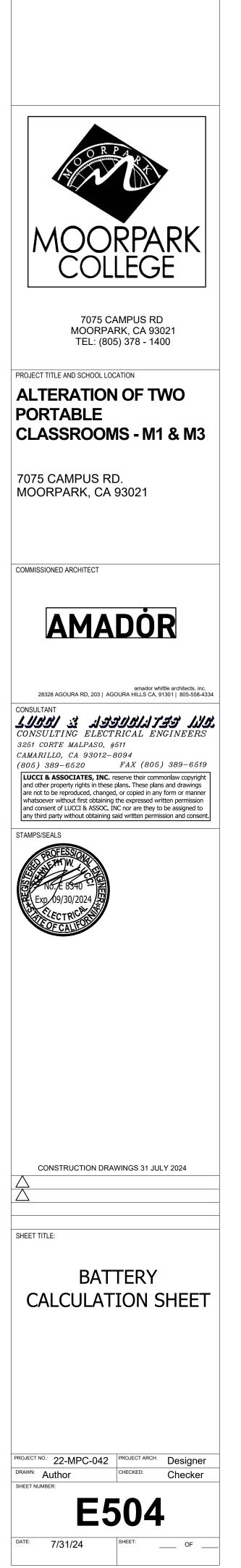
### EST3 Number: FACP-1

Building/Area: MPK four modulars

Power Supply:	4.02	Amps		
ated Batteries	20.78	Ah		
	01.11			
Qty	Stdby Amps (mA)	Total Stdby	Alarm Amps (mA)	Total Alarm
 1	145	145.0	155.0	155.0
1	40	40.0	42.0	42.0
1	264	264.0	336.0	336.0
1				
	98	98.0	98.0	98.0
0	4.4.4	0.0	144.0	0.0
0	144	0.0	144.0	0.0
0	40	0.0	42.0	0.0
		824.0		3199.0
(Standby plu	s Alarm Curre	ent)		
1				
1	50.0	0.0	50.0	0.0
0	70.0	0.0	70.0	0.0
		824.0		3199.0
		824.0		3199.0
				0.0000
	4.02	Amps of Powe	-	
	7.00	Amps of Pow	er Provided	
=	20.78	Ah Batteries R		
	27.02		equired w/ Saf	ety Factor
	40.0	Ah Batteries	Provided	
Power Supply:	0.00	Amps		
ated Batteries	0.00	Ah		

Staby Amps		Alarm Amps	
(mA)	Total Stdby	(mA)	Total Alarm
0.00	0.00	103.00	0.00
0.00	0.00	141.00	2397.00
0.00	0.00	255.00	0.00
0.00	0.00	311.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
	0.00		2397.00
Staby		Alarm	
Amps (mA)	Total Stdby	Amps (mA)	Total Alarm
(mÅ)	Total Stdby	(mÅ)	Total Alarm
(mÅ) 144.00	0.00	(mA) 144.00	0.00
(mA) 144.00 40.00	0.00	(mA) 144.00 42.00	0.00 0.00
(mA) 144.00 40.00 0.00	0.00 0.00 0.00	(mA) 144.00 42.00 0.00	0.00 0.00 0.00
(mA) 144.00 40.00	0.00 0.00 0.00 0.00	(mA) 144.00 42.00	0.00 0.00 0.00 0.00
(mA) 144.00 40.00 0.00	0.00 0.00 0.00	(mA) 144.00 42.00 0.00	0.00 0.00 0.00
(mA) 144.00 40.00 0.00	0.00 0.00 0.00 0.00	(mA) 144.00 42.00 0.00	0.00 0.00 0.00 0.00
(mA) 144.00 40.00 0.00 0.00 Staby Amps	0.00 0.00 0.00 0.00 0.00	(mA) 144.00 42.00 0.00 0.00 Alarm Amps	0.00 0.00 0.00 0.00 0.00
(mA) 144.00 40.00 0.00 0.00 Staby Amps (mA)	0.00 0.00 0.00 0.00 0.00 Total Stdby	(mA) 144.00 42.00 0.00 0.00 Alarm Amps (mA)	0.00 0.00 0.00 0.00 0.00
(mA) 144.00 40.00 0.00 0.00 Staby Amps (mA) 0.00	0.00 0.00 0.00 0.00 0.00 Total Stdby 0.00	(mA) 144.00 42.00 0.00 0.00 Alarm Amps (mA) 0.00	0.00 0.00 0.00 0.00 0.00 Total Alarm 0.00
(mA) 144.00 40.00 0.00 0.00 5tdby Amps (mA) 0.00 0.00	0.00 0.00 0.00 0.00 0.00 <b>0.00</b> <b>Total Stdby</b> 0.00 0.00	(mA) 144.00 42.00 0.00 0.00 Alarm Amps (mA) 0.00 0.00	0.00 0.00 0.00 0.00 0.00 Total Alarm 0.00 0.00
(mA) 144.00 40.00 0.00 0.00 0.00 Amps (mA) 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 <b>0.00</b> <b>Total Stdby</b> 0.00 0.00 0.00	(mA) 144.00 42.00 0.00 0.00 Alarm Amps (mA) 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 Total Alarm 0.00 0.00 0.00
(mA) 144.00 40.00 0.00 0.00 0.00 Amps (mA) 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 Total Stdby 0.00 0.00 0.00 0.00	(mA) 144.00 42.00 0.00 0.00 0.00 Alarm Amps (mA) 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 Total Alarm 0.00 0.00 0.00 0.00
(mA) 144.00 40.00 0.00 0.00 0.00 Amps (mA) 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(mA) 144.00 42.00 0.00 0.00 0.00 Alarm Amps (mA) 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
(mA) 144.00 40.00 0.00 0.00 0.00 Amps (mA) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(mA) 144.00 42.00 0.00 0.00 0.00 Alarm Amps (mA) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
(mA) 144.00 40.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(mA) 144.00 42.00 0.00 0.00 0.00 Alarm Amps (mA) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
(mA) 144.00 40.00 0.00 0.00 0.00 Amps (mA) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(mA) 144.00 42.00 0.00 0.00 0.00 Alarm Amps (mA) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
(mA) 144.00 40.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(mA) 144.00 42.00 0.00 0.00 0.00 Alarm Amps (mA) 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
(mA) 144.00 40.00 0.00 0.00 0.00 Amps (mA) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(mA) 144.00 42.00 0.00 0.00 0.00 Alarm Amps (mA) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
(mA) 144.00 40.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(mA) 144.00 42.00 0.00 0.00 0.00 Alarm Amps (mA) 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
(mA) 144.00 40.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(mA) 144.00 42.00 0.00 0.00 0.00 Alarm Amps (mA) 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0





L.A.I.# 24-819 PAPER SIZE 42"x30"

DIVISION OF THE STATE ARCHITECT

	CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION OFFICE OF THE STATE FIRE MARSHAL FIRE ENGINEERING & INVESTIGATIONS DIVISION BUILDING MATERIALS LISTING PROGRAM LISTING SERVICE	CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION OFFICE OF THE STATE FIRE MARSHAL FIRE ENGINEERING & INVESTIGATIONS DIVISION BUILDING MATERIALS LISTING PROGRAM LISTING SERVICE	Standard Detector Base, SIGA-SB, SIGA-SB4         This is the basic mounting base for EDWARDS Signature Series       Remote LED    Marresistance Relay Detector Base, SIGA-RB, SIGA-RB4 This is the basic mounting base for EDWARDS Signature Series	LIFE SA
DATE: 8 October 2024 TIME: 12:26 pm	This listing is based upon technical data submitted by the applicant. OSFM Fire Engineering staff has reviewed the test ends and/or other data but does not make an independent verification of any daims. This listing is not an endseened or recommendation of the term listed. This listing should not be used to verify correct operational rejulaments or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.         Date Issued: 05/03/2024       Listing Expires: 06/30/2025         Authorized By: David Castillo, Program Coordinator Fire Engineering & Investigations Division       Engineering & Investigations Division	LISTING No.:       7270-1657:0333         CATEGORY:       7270 - HEAT DETECTOR         LISTEE:       EDWARDS, A Division of UTC Fire & Security Americas Corporation, Inc. 8985 Town Center Parkway, Bradenton, FL, 34202 Contact. Conver, Jewell 941 739-4358 Email: rhonda.micochero@carrier.com         DESIGN:       Models SIGA-HED, SIGA-HED, SIGA-HED, SIGI-HED, SIGI-HED, SIGI-HED, *SIGA-HED-NL, *SIGA-HED is a 135°F fixed temperature heat detector.         Model SIGA-HED is a 135°F fixed temperature heat detector.       Model SIGA-HED is a 135°F fixed temperature heat detector.         Model SIGA-HED is a 135°F fixed temperature heat detector.       Model SIGA-HED and SIGI-HED are similar to Models SIGA-HED and SIGA-HED except for trade name.         Model KI-HED and KI-HED are identical to Models SIGA-HED and SIGA-HED except for trade name.       Model SIGA-HED is similar to Model SIGA-HED except has a programmable threshold.         Model SIGA-HED is similar to Model SIGA-HED except for the trade name and installation sheet.       *Model SIGA-HED.NL, SIGA-HED.NL, and SIGA-HED except to signify no logo on the namerplate label         Refer to listee's data sheet for detailed product description and operational considerations.       RATING:         It 2.219.95 Vdc       In accordance with listee's printed installation instructions, NFPA 72 and applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.		<b>Detected</b> <b>SIGA-HRD</b> , <b>S</b> <b>SIGA-HRD</b> , <b>S</b> <b>SIGA-HRD</b> , <b>S</b> <b>SIGA-HRD</b> , <b>S</b> <b>SIGA-HRD</b> is an inter- technology to a practical of installation time, cuts cost capabilities. Continuous s the long-haul, while the la detectors ideal wherever of <b>The SIGA-HRD</b> is an inter- detector. It monitors the t analyzes the data from the an alarm. The rate-of-rise flaming fire. The fixed-terr the air temperature near t <b>The SIGA-HFD</b> is an inter- tor that contains a fixed-terr the air temperature near the control of the temperature detector analyzes the data near the detector exceeds
NGS	Page 3 of 3	Page 1 of 3	Page 3 of 4 DATA SHEET E85001-0647 Not to be used for installation purposes. Issue 2.1	Page 1 of 4
DRAFTER: CM02 DRAWING FILENAME: 24-819E505 PATHNAME: G:\24\819\EL\Sheets\02-MODULAR BUI		<image/> <image/> <image/> <section-header></section-header>	<image/> <image/> <section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	<ul> <li>Application</li> <li>The SIGA-HRD combination for detector provides a 15 °F (9 °C sensor for the detection of fast (57°C) fixed temperature sensor for slow but the perature sensor for slow but the signature sensor for slow but to signature series detectors mone to North American 1-gang box 3-1/2 inch or 4 inch octagon boxes, and to 4 inch square electrical boxes 1-1/2 inches (38 mm) deep. They mount to European BESA and 1-gang box se with 60.3 mm fixing centers. See mounting base installation and wiring for more information.</li> <li>Sensong and Fast, Stable Communication.</li> <li>Self-diagnostics and History detector constantly runs self-climaintenance information. The automatically updated and per non-volatile memory.</li> <li>Automatic Device Mapping each device's installed locati reinstalled (after cleaning etc.) is was originally.</li> <li>Fast Stable Communication formation needs to be sent be controller. Other than regular sidetector only needs to commut when it has something new to service of the sent manetor in the something new to service of the sent manetor in the something new to the sent manetor in the somethi</li></ul>
		Page 2 of 3	Page 4 of 4 DATA SHEET E85001-0647 Not to be used for installation purposes. Issue 2.1	Page 2 of 4
Daffer:CM2 Raper Size: 12,9 Dawingsci,24(819)ELSheeeks02:40:DULAR BUILDINGS(24-619E505.dwg Oct 05, 122,40;12,126pm Attable:AZREFS: 124,412:126pm XREFG:1241819/kR[Xrefs]BACGROUND_DATE[MODULAR BUILDINGS[MODULAR 1.dwg XREFG:1241819/kR[Xrefs]BACGROUND_DATE[MODULAR BUILDINGS[MODULAR 1.dwg			Copyright Lucci and Associates Con	

19E300.dwg: DATE: JUN 06, 2024 TIME: 3:05 PM



life safety  $\mathscr{G}$  incident management

## Intelligent Heat Detectors SIGA-HRD, SIGA-HFD

### /erview

Signature Series smoke detectors bring advanced sensing nnology to a practical design that increases efficiency, saves allation time, cuts costs, and extends property protection abilities. Continuous self-diagnostics ensures reliability over e long-haul, while the latest thermister technology makes these ectors ideal wherever dependable heat detection is required. e SIGA-HRD is an intelligent fixed temperature/rate-of-rise fire • 15 °F (9 °C) per minute rate-of-rise alarm point (HRD) tector. It monitors the temperature of the surrounding air and

alyzes the data from the sensor to determine whether to initiate alarm. The rate-of-rise heat function quickly detects a fast, ning fire. The fixed-temperature heat function detects fire when • Sensor Markings Provide Easy Testing Identification e air temperature near the detector exceeds the alarm point. SIGA-HFD is an intelligent fixed-temperature heat detecthat contains a fixed-temperature heat sensor rated at 135 °F

7.2 °C). It does not have a rate-of-rise function. The heat sensor • Electronic addressing nitors the temperature of the air in its surroundings and the etector analyzes the data to determine when the air temperature r the detector exceeds the device's alarm point.



EDWARDS® Catalog 
Intelligent Initiating Devices

Standard Features

- Note: Some features described here may not be supported by all control systems. Check your control panel's Installation
- and Operation Guide for details. Next Generation Heat Sensing Technology
- 135 °F (57 °C) fixed temperature alarm point (HRD and HFD)
- Uses existing wiring Automatic device mapping
- Up To 250 Total Signature Devices Per Loop
- Non-volatile memory
- Bicolor (green/red) status LED
- Standard, relay, fault isolator, and audible mounting bases 50 foot (15.2 meter) spacing
  - DATA SHEET **E85001-0647** Not to be used for installation purposes. Issue 2.1

## cation

GA-HRD combination fixed temperature/rate-of-rise heat or provides a 15 °F (9 °C) per minute rate-of-rise heat for the detection of fast-developing fires, as well as a 135°F fixed temperature sensor for slow building-fires. The SIGAked temperature detector provides a 135°F (57°C) fixed ature sensor for slow building-fires.

### oatibility

re Series heat detectors are compatible only with nature Loop Controller.

### lation re Series detectors mount

re Series detectors mount n American 1-gang boxes, inch or 4 inch octagon nch or 4 inch octagon and to 4 inch square — Self-locking tab ALCON. l boxes 1-1/2 inches deep. They mount to an BESA and 1-gang vith 60.3 mm fixing See mounting base

### sing and reporting technology roprocessor in each detector provides additional - Self-diagnostics and History Log, Automatic Device

g, and Fast, Stable Communication. gnostics and History Log - Each Signature Series r constantly runs self-checks to provide important nance information. The results of the self-check are tically updated and permanently stored in the detector's

atic Device Mapping - The loop controller learns where evice's serial number address is installed relative to other s on the circuit. The mapping feature provides supervision device's installed location to prevent a detector from being ed (after cleaning etc.) in a different location from where it

table Communication - On-board intelligence means less • This detector does not operate without electrical power. tion needs to be sent between the detector and the loop er. Other than regular supervisory polling response, the only needs to communicate with the loop controller has something new to report.

### Accessories Detector mounting bases have wiring terminals that are

accessible from the "room-side" after mounting the base to the electrical box. The bases mount to North American 1-gang boxes and to 31/2 inch or 4 inch octagon boxes, 11/2 inches (38 mm) deep. They also mount to European BESA and 1-gang boxes with 60.3 mm fixing centers. The SIGA-SB4, SIGA-RB4, and SIGA-IB4 mount to North American 4 inch sq. electrical boxes in addition to the above boxes. They include the SIGA-TS4 Trim Skirt, which is used to cover the "mounting ears" on the base. The SIGA-AB4G mounts to a 4 inch square box only.

-SIGA-AB4G/T/LF SIGA-SB SIGA-IB SIGA-RB SIGA-LED Audible Base

### Remote LED SIGA-LED - The remote LED connects to the SIGA-SB or SIGA-SB4 Standard Base only. It features a North American size 1-gang plastic faceplate with a white finish and red alarm LED.

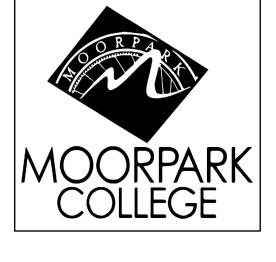
SIGA-TS4 Trim Skirt - Supplied with 4 inch bases, it can also be ordered separately to use with the other bases to help hide surface imperfections not covered by the smaller bases.

- Sounder Bases Signature Series sounder bases are designed for use where localized or group alarm signaling is required. • SIGA-AB4G bases provide sounder capability to Signature
- Series to heat and smoke detectors. They are not intended for use with combination carbon monoxide detectors in Fire-plus-CO mode.
- SIGA-AB4GT bases provide sounder capability to Signature Series smoke and heat detectors, as well as carbon monoxide detectors when used with a SIGA-TCDR Temporal Pattern Generator.
- SIGA-AB4G-LF bases provide 520 Hz low frequency sounder capability to Signature Series smoke and heat detectors, as well as carbon monoxide detectors when used with a SIGA-TCDR Temporal Pattern Generator. The SIGA-AB4G-LF is suitable for applications requiring low frequency audible tones.

### Warnings & Cautions

- As fires frequently cause power interruption, discuss
- further safeguards with the local fire protection specialist. This detector does not sense fires in areas where heat cannot reach the detector. Heat from fires in walls, roofs, or on the opposite side of closed doors may not reach the detector.
- This heat detector by itself does not provide life safety protection Use this detector with ionization and/or photoelectric smoke detectors.
- This detector does not detect oxygen levels, smoke, toxic gases, or flames. Use this device as part of a broad-based life safety program which includes a variety of information sources pertaining to heat and smoke levels, extinguishment systems, visual and audible devices, and other safety measures. Independent studies indicate that heat detectors should only
- be used when property protection alone is involved. Never rely on heat detectors as the sole means of fire protection.

DATA SHEET **E85001-0647** Not to be used for installation purposes. Issue 2.1



DIVISION OF THE STATE ARCHITECT

7075 CAMPUS RD MOORPARK, CA 93021 TEL: (805) 378 - 1400

### PROJECT TITLE AND SCHOOL LOCATION **ALTERATION OF TWO** PORTABLE CLASSROOMS - M1 & M3

7075 CAMPUS RD. MOORPARK, CA 93021

COMMISSIONED ARCHITECT



amador whittle architects, inc. 28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334 CONSULTANT

עצע צדר געעעבבאי 🕺 אעעע CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094 (805) 389-6520 FAX (805) 389-6519

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CONSTRUCTION DRAWINGS 31 JULY 2024

## SHEET TITLE: MANUFACTURER DATA SHEETS FOR INTELLIGENT HEAT DETECTOR

PROJECT NO.: 22-MPC-042 PROJECT ARCH: Designer DRAWN: Author CHECKED: Checker

SHEET NUMBER

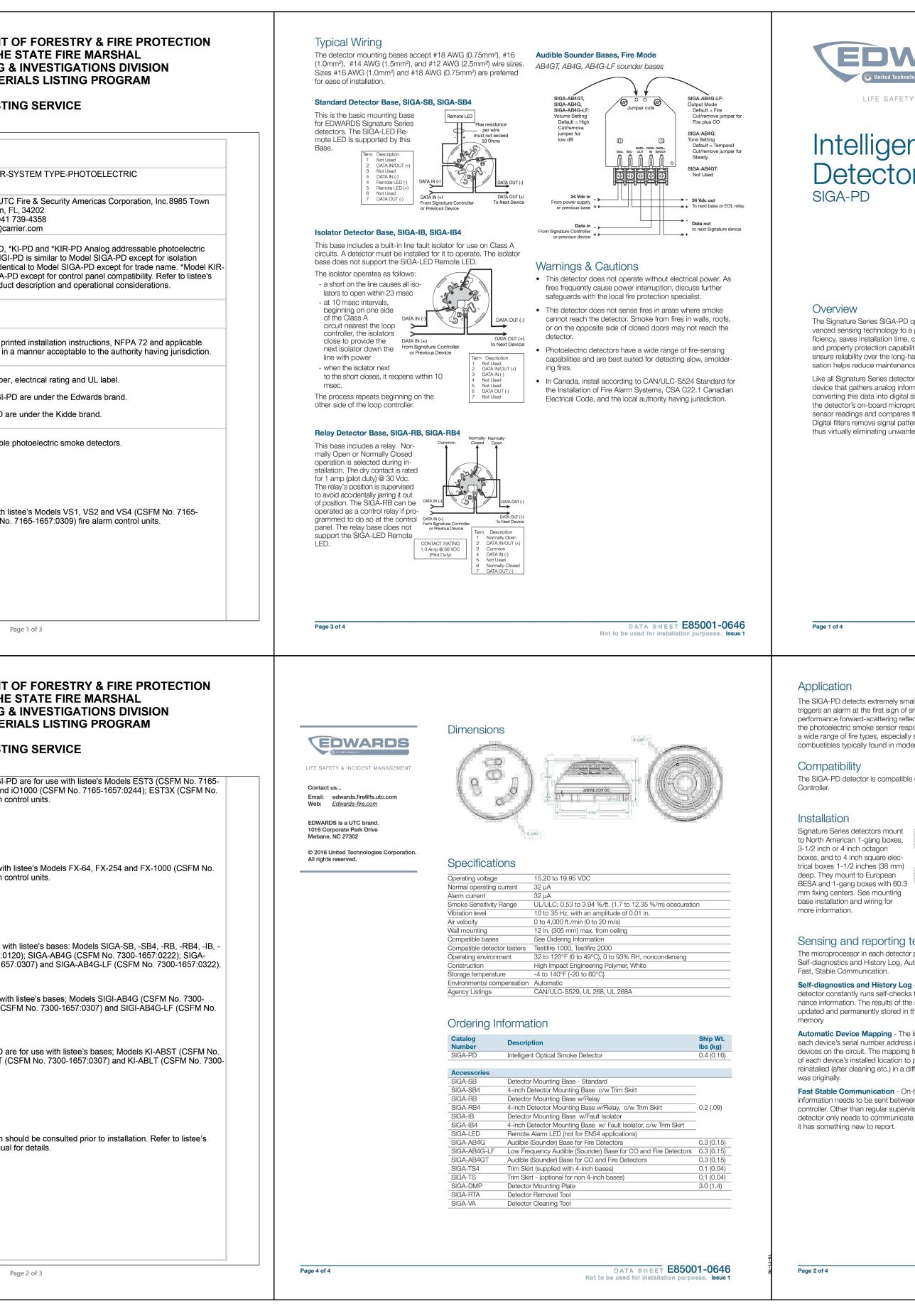
E505

\_\_\_\_\_ OF \_\_\_\_

L.A.I.# 24-819 PAPER SIZE 42"x30"

7/31/24

	CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION OFFICE OF THE STATE FIRE MARSHAL FIRE ENGINEERING & INVESTIGATIONS DIVISION BUILDING MATERIALS LISTING PROGRAM LISTING SERVICE	CALIFO	ORNIA DEPARTMENT OFFICE OF THE FIRE ENGINEERING BUILDING MATEF LIST
		LISTING No.:	7070 4657-0224
	The photoelectric type detectors are generally more effective at detecting slow, smoldering fires, which smolder for hours before bursting into flames. Sources of these fires may include cigarettes burning in couches or bedding. The ionization type detectors	CATEGORY:	7272-1657:0331 7272 - SMOKE DETECTOR-
	are generally more effective at detecting fast, flaming fires, which consume combustible materials rapidly and spread quickly. Sources of these fires may include paper burning in a waste container or a grease fire in the kitchen.	LISTEE:	EDWARDS, A Division of UT
	*Rev 02-15-18 gt		Center Parkway, Bradenton, Contact: Conover, Jewell 941 Email: rhonda.micochero@ca
	This listing is based upon technical data submitted by the applicant. OSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable	DESIGN:	Models SIGA-PD, *SIGI-PD, smoke detectors.*Model SIG circuitry. *Model KI-PD is ider PD is similar to Model SIGA-I data sheet for detailed produc
	Date Issued: 05/03/2024       Listing Expires: 06/30/2025	RATING:	15.2-19.95 Vdc
	Authorized By: <b>David Castillo</b> , Program Coordinator Fire Engineering & Investigations Division	INSTALLATION:	In accordance with listee's pr
c		MARKING:	codes and ordinances and in
IME: 12:26 pm			Listee's name, model number *Models SIGA-PD and SIGI-F *Models KI-PD and KIR-PD a
F		APPROVAL:	Listed as analog addressable
DATE: 8 October 2024			*Model KI-PD is for use with 1 1657:0244); VM-1 (CSFM No
	Page 3 of 3		
G:\24\819\EL\Sheets\02-MODULAR BUILDINGS		CALIF	ORNIA DEPARTMENT OFFICE OF THE FIRE ENGINEERING BUILDING MATEI LIST
Ξ			1657:0186); iO64, iO500 and 7165-1657:0306) fire alarm c
PATHNAI			*Model KIR-PD is for use with 7165-1657:0244) fire alarm c
:4-819E506			*Model SIGA-PD is for use w IB4 (CSFM No. 7300-1657:0 AB4GT (CSFM No. 7300-165
DRAWING FILENAME: 24-819E506			*Model SIGI-PD is for use wit 1657:0222); SIGI-AB4GT (CS 7300-1657:0322).
DRAWING			*Models KI-PD and KIR-PD a 7300-1657:0222), KI-ABDT ( 1657:0322).
DRAFTER: CM02			Authority having jurisdiction s Installation Instruction Manua
Denfer:CM2_Paper Stare 12.9 Dewinge:GC1248(195E)ESteets102-MODULAR BUILDINGS/24-819E206.dwg Cot 68, 2014 212.5pm Reter:Gc1248(19,ME)VeeS)24-819EH-TB.dwg XREF:Gc1248(19,ME)VeeS)24-819EH-TB.dwg XREF:Gc1248(19,ME)VeeS)24-819EH-TB.dwg XREF:Gc1248(19,ME)VeeS)24-819EH-TB.dwg			





LIFE SAFETY 🔗 INCIDENT MANAGEMEN

## Intelligent Smoke Detector

- The Signature Series SIGA-PD optical smoke detector brings adficiency, saves installation time, cuts costs, and extends life safety and property protection capabilities. Continuous self-diagnostics ensure reliability over the long-haul, while environmental compensation helps reduce maintenance costs.
- Like all Signature Series detectors, the SIGA-PD is an intelligent device that gathers analog information from its optical sensor, converting this data into digital signals. To make an alarm decision the detector's on-board microprocessor measures and analyzes sensor readings and compares this information to historical data. Digital filters remove signal patterns that are not typical of fires, thus virtually eliminating unwanted alarms.

EDWARDS Catalog Intelligent Initiating Devices

(UL) 8853

### Standard Features Note: Some features described here may not be supported by

- vanced sensing technology to a practical design that increases ef- all control systems. Check your control panel's Installation and Operation Guide for details.
  - Next Generation Optical Smoke Sensing Technology
  - Wide 0.53 to 3.94 %/ft. (1.7 to 12.35 %/m) smoke obscuration
  - Uses Existing Wiring Automatic Device Mapping
  - Up To 250 Total Signature Addresses Per Loop
  - Two Levels of Environmental Compensation
  - Two Levels of Dirty Detector Warning
  - Twenty Pre-Alarm Settings
  - Five Sensitivity Settings Non-Volatile Memory
  - Electronic Addressing
  - Identification of Dirty or Defective Detectors
  - Automatic Day/Night Sensitivity Adjustment
  - Bicolor (Green/Red) Status Led

Testing & Maintenance

 Standard, Relay, Fault Isolator, and Audible Mounting Bases Sensor Markings Provide Easy Testing Identification

## DATA SHEET **E85001-0646** Not to be used for installation purposes. Issue 1

The SIGA-PD detects extremely small particles of combustion and triggers an alarm at the first sign of smoke. Thanks to its highperformance forward-scattering reflective response technology, the photoelectric smoke sensor responds guickly and reliably to a wide range of fire types, especially slow burning fires fuelled by combustibles typically found in modern multi-use buildings.

\_\_\_\_\_ Self-locking tab VII ICIII 

### Sensing and reporting technology The microprocessor in each detector provides additional benefits -Self-diagnostics and History Log, Automatic Device Mapping, and

Self-diagnostics and History Log - Each Signature Series detector constantly runs self-checks to provide important maintenance information. The results of the self-check are automatically updated and permanently stored in the detector's non-volatile

Automatic Device Mapping - The loop controller learns where each device's serial number address is installed relative to other devices on the circuit. The mapping feature provides supervision of each device's installed location to prevent a detector from being reinstalled (after cleaning etc.) in a different location from where it

Fast Stable Communication - On-board intelligence means less information needs to be sent between the detector and the loop controller. Other than regular supervisory polling response, the detector only needs to communicate with the loop controller when

sensitivity report may be printed to satisfy NFPA sensitivity measurements, which must be conducted at the end of the first year and every two years thereafter. The user-friendly maintenance program shows the current state of each detector and other pertinent messages. Single detectors may be turned off temporarily from the control panel. Availability of The SIGA-PD detector is compatible only with the Signature Loop maintenance features is dependent on the fire alarm system used.

Each detector automatically identifies when it is dirty or defective

and causes a "dirty detector" message. The detector's sensitiv-

ity measurement can also be transmitted to the loop controller. A

### Accessories Detector mounting bases have wiring terminals that are acces-

tones.

sible from the "room-side" after mounting the base to the electrical box. The bases mount to North American 1-gang boxes and to 3½ inch or 4 inch octagon boxes, 1½ inches (38 mm) deep. They also mount to European BESA and 1-gang boxes with 60.3 mm fixing centers. The SIGA-SB4, SIGA-RB4, and SIGA-IB4 mount to North American 4 inch sq. electrical boxes in addition to the above boxes. They include the SIGA-TS4 Trim Skirt, which is used to cover the "mounting ears" on the base. The SIGA-AB4G mounts to a 4 inch square box only.





Remote LED SIGA-LED - The remote LED connects to the SIGA-SB or SIGA-SB4 Standard Base only. It features a North American size 1-gang plastic faceplate with a white finish and red alarm LED SIGA-TS4 Trim Skirt - Supplied with 4 inch bases, it can also

be ordered separately to use with the other bases to help hide surface imperfections not covered by the smaller bases.

- Sounder Bases Signature Series sounder bases are designed for use where localized or group alarm signaling is required. • SIGA-AB4G bases provide sounder capability to Signature Series to heat and smoke detectors. They are not intended for use with combination carbon monoxide detectors in Fire-
- plus-CO mode. • SIGA-AB4GT bases provide sounder capability to Signature Series smoke and heat detectors, as well as carbon monoxide detectors when used with a SIGA-TCDR Temporal Pattern

Generator. • SIGA-AB4G-LF bases provide 520 Hz low frequency sounder capability to Signature Series smoke and heat detectors, as well as carbon monoxide detectors when used with a SIGA-TCDR Temporal Pattern Generator. The SIGA-AB4G-LF is suitable for applications requiring low frequency audible

> DATA SHEET **E85001-0646** Not to be used for installation purposes. Issue 1



DIVISION OF THE STATE ARCHITECT

7075 CAMPUS RD MOORPARK, CA 93021 TEL: (805) 378 - 1400

### PROJECT TITLE AND SCHOOL LOCATION **ALTERATION OF TWO** PORTABLE CLASSROOMS - M1 & M3

7075 CAMPUS RD. MOORPARK, CA 93021

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amador whittle architects, inc. 28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334 CONSULTAN لللا تحجا لنلولوجانه الألالا المعالمات CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511

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CONSTRUCTION DRAWINGS 31 JULY 2024

SHEET TITLE: MANUFACTURER DATA SHEETS FOR INTELLIGENT SMOKE DETECTOR

PROJECT NO.: 22-MPC-042 PROJECT ARCH: Designer DRAWN: Author CHECKED: Checker

E506

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L.A.I.# 24-819 PAPER SIZE 42"x30"

7/31/24



### CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION OFFICE OF THE STATE FIRE MARSHAL FIRE ENGINEERING & INVESTIGATIONS DIVISION **BUILDING MATERIALS LISTING PROGRAM**

## LISTING SERVICE

LISTEE: EDWARDS, A Division of UTC Fire & Security Americas Corporation, Inc. 8985 Town Center Parkway, Bradenton, FL, 34202 Contact: Conover, Jewell 941 739-4358 Email: rhonda.micochero@carrier.com		
Center Parkway, Bradenton, FL, 34202         Contact: Conover, Jewell 941 739-4358         Email: rhonda.micochero@carrier.com         DESIGN:         Models G4-S2, G4R-S2, G4-S7, G4R-S7, G4F-S7, G4F-S7, G4F-S2, G4RF-S2, G S2, GCF-S2, GC-S7, GCF-S7, and "GCFR-S7 speakers.         Models G4-S2VM, G4R-S2VM, G4-S7VM, G4R-S7VM, G4F-S2VM, G4RF-S2VM, GCF-S2VM, GCF-S2V, 1575, 15/75 to/75, tG4F-S2V1575, seplicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.	CATEGORY:	7320 - SPEAKERS
Models G4-S2, G4R-S2, G4-S7, G4R-S7, G4F-S7, G4RF-S7, G4F-S2, G4RF-S2, G         S2, GCF-S2, GC-S7, GCF-S7, and "GCFR-S7 speakers.         Models G4-S2VM, G4R-S2VM, G4-S7VM, G4R-S7VM, G4F-S2VM, G4RF-S2VM, G         S7VM, G4RF-S7VM, GC-S7VM, GCF-S2VM, GCF-S7VM, GCF-S2VMH, GCF-S2VMH, GC-S7VM, GCF-S2VMH, GCF-S2VMH, GCF-S2V1575, "G4F-S7V1575, and "G4RF-S7V1575 speaker strobes.         Models G4B and G4RB speaker enclosure backbox. Refer to listee's data sheet for detailed product description and operational considerations.         RATING:       25 Vrms or 70 Vrms         ¼ W, ½ W, 1 W, 2 W       G4 Candela: 15cd, 30cd, 75cd, 110cd.         GC Candela: 15cd, 30cd, 75cd, 95cd.       H Candela: 95cd, 115cd, 150cd, 177cd.         *G4F-S2V1575, *G4RF-S2V1575, *G4F-S7V1575, and *G4RF-S7V1575 15/75 cd         INSTALLATION:       In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.	LISTEE:	Contact: Conover, Jewell 941 739-4358
S7VM, G4RF-S7VM, GC-S2VM, GCF-S2VM, GC-S7VM, GC-S7VM, GC-S2VMH, GCF-S2VMH, GC-S7VMH, GCF-S7VMH, *GCFR-S7VM, *G4F-S2V1575, *G4RF- S2V1575, *G4F-S7V1575, and *G4RF-S7V1575 speaker strobes.Models G4B and G4RB speaker enclosure backbox. Refer to listee's data sheet for detailed product description and operational considerations.RATING:25 Vrms or 70 Vrms ¼ W, ½ W, 1 W, 2 W G4 Candela: 15cd, 30cd, 75cd, 110cd. GC Candela: 15cd, 30cd, 75cd, 95cd. H Candela: 95cd, 115cd, 150cd, 177cd. *G4F-S2V1575, *G4RF-S2V1575, *G4RF-S7V1575, and *G4RF-S7V1575 15/75 cdINSTALLATION:In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.	DESIGN:	
RATING:       25 Vrms or 70 Vrms         ½ W, ½ W, 1 W, 2 W       G4 Candela: 15cd, 30cd, 75cd, 110cd.         GC Candela: 15cd, 30cd, 75cd, 95cd.       G4 Candela: 95cd, 115cd, 150cd, 177cd.         *G4F-S2V1575, *G4RF-S2V1575, *G4F-S7V1575, and *G4RF-S7V1575 15/75 cd         INSTALLATION:       In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.		S7VM, G4RF-S7VM, GC-S2VM, GCF-S2VM, GC-S7VM, GCF-S7VM, GC-S2VMH, GCF-S2VMH, GCF-S7VMH, GCF-S7VMH, *GCFR-S7VM, *G4F-S2V1575, *G4RF-
25 Vrms or 70 Vrms         ¼ W, ½ W, 1 W, 2 W         G4 Candela: 15cd, 30cd, 75cd, 110cd.         GC Candela: 15cd, 30cd, 75cd, 95cd.         H Candela: 95cd, 115cd, 150cd, 177cd.         *G4F-S2V1575, *G4RF-S2V1575, *G4F-S7V1575, and *G4RF-S7V1575 15/75 cd         INSTALLATION:         In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.         MARKING:		
G4 Candela: 15cd, 30cd, 75cd, 110cd.         GC Candela: 15cd, 30cd, 75cd, 95cd.         H Candela: 95cd, 115cd, 150cd, 177cd.         *G4F-S2V1575, *G4RF-S2V1575, *G4F-S7V1575, and *G4RF-S7V1575 15/75 cd         INSTALLATION:         In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.         MARKING:	RATING:	25 Vrms or 70 Vrms
GC Candela: 15cd, 30cd, 75cd, 95cd.         H Candela: 95cd, 115cd, 150cd, 177cd.         *G4F-S2V1575, *G4RF-S2V1575, *G4F-S7V1575, and *G4RF-S7V1575 15/75 cd         INSTALLATION:         In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.         MARKING:		1⁄4 W, 1⁄2 W, 1 W, 2 W
H Candela: 95cd, 115cd, 150cd, 177cd.         *G4F-S2V1575, *G4RF-S2V1575, *G4F-S7V1575, and *G4RF-S7V1575 15/75 cd         INSTALLATION:         In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.         MARKING:		G4 Candela: 15cd, 30cd, 75cd, 110cd.
*G4F-S2V1575, *G4RF-S2V1575, *G4F-S7V1575, and *G4RF-S7V1575 15/75 cd         INSTALLATION:         In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.         MARKING:		GC Candela: 15cd, 30cd, 75cd, 95cd.
INSTALLATION:       In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.         MARKING:       In accordance with listee's printed installation instructions, applicable codes and ordinances.		H Candela: 95cd, 115cd, 150cd, 177cd.
In accordance with listee's printed installation instructions, applicable codes and ordinances, and in a manner acceptable to the authority having jurisdiction.  MARKING:		*G4F-S2V1575, *G4RF-S2V1575, *G4F-S7V1575, and *G4RF-S7V1575 15/75 cd
	INSTALLATION:	
	MARKING:	Listee's name, model number, electrical/candela rating, and UL label.

Page 1 of 2



### **CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION** OFFICE OF THE STATE FIRE MARSHAL FIRE ENGINEERING & INVESTIGATIONS DIVISION **BUILDING MATERIALS LISTING PROGRAM**

### LISTING SERVICE

APPROVAL:	Listed as speakers and speaker/strobes for use with separately listed compatible fire alarm control unit. Speakers with a strobe are suitable for the hearing impaired. For indoor use only. Models G4-S2VM, G4R-S2VM, G4-S7VM, G4R-S7VM, G4F-S2VM, G4RF-S2VM, G4RF-S2VM, G4RF-S2VM, GC-S7VM and GCF-S7VM are intended to be used with models G1M-RM (CSFM Listing No. 7320-1657:201), and SIGA-CC1S and SIGA-MCC1S (CSFM Listing No. 7300-1657:121) syr modules.
	If the distinctive three-pulse Temporal Pattern Fire Alarm Evacuation signal (for total evacuation) in accordance with NFPA 72, 2002 Edition is required, the appliance must used with a fire alarm control unit that can generate the temporal pattern signal. Refer listee's Installation Instruction Manual for details.
NOTES:	Formerly 7320-1591:211 and 7320-1388:243
	7-29-10 ma



This listing is based upon technical data submitted by the applicant. OSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Page 2 of 2

Listing Expires: 06/30/2025

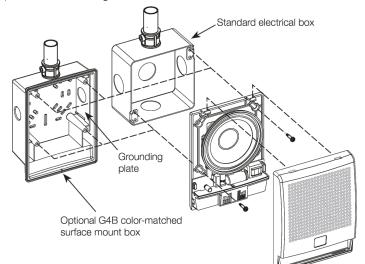
Date Issued: 05/03/2024

Authorized By: David Castillo, Program Coordinator Fire Engineering & Investigations Division

### Installation and Mounting

All models are intended for indoor wall mounted applications only. Speakers and speaker-strobes are flush mounted to a North-American 4" square electrical box, 2<sup>1</sup>/<sub>8</sub>" (54 mm) deep or a European 100 mm square box. Signals may be surface mounted to a Genesis surface-mount box (see ordering information for details).

Two tabs at the top of the signal unlock the cover to facilitate mounting. The shallow depth of Genesis devices leaves room behind the signal for extra wiring. Once installed with the cover in place, no mounting screws are visible.



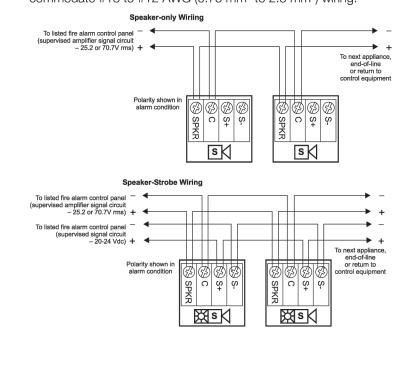
EDWARDS recommends that these speaker-strobes always be installed in accordance with the latest recognized edition of national C, or D designations. and local codes. Refer to installation sheet for mounting height information.

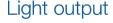
### Wiring

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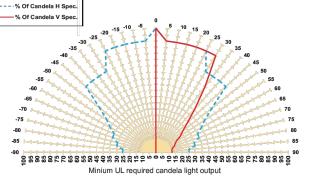
Specifications

Field wiring is connected to Genesis signals with terminals that accommodate #18 to #12 AWG (0.75 mm<sup>2</sup> to 2.5 mm<sup>2</sup>) wiring.





Per cent of UL rating versus angle





Typical current, milliamps - average (RMS)				
Cd rating	"15" or "D"	"30" or "C"	"75" or "B"	"110" or "A"
20 Vdc	65 (78)	93 (101)	182 (188)	238 (245)
24 Vdc	55 (65)	78 (86)	153 (159)	196 (203)
31 Vdc	45 (53)	63 (69)	120 (124)	151 (157)
20 Vfwr	56 (106)	79 (147)	147 (264)	197 (342)
24 Vfwr	50 (95)	68 (130)	121 (225)	155 (283)
27 Vfwr	44 (84)	60 (115)	107 (200)	137 (251)

Light output switch settings for UL 1971 listed models are selectable by numeric candela value. Light output for Mass Notification (ECS/MNS) appliances is selectable by A, B,

Lens	Switch	Switch	Switch	Switch
Color	Position A	Position B	Position C	Position D
Clear	110 cd	75 cd	30 cd	15 cd
Amber	95 cd	65 cd	26 cd	13 cd

### Sound level output

G4HF High Frequency Models, dBA at 3.05 m (10 ft.)					
Voltage	Setting (nominal)	Wattage (actual)	UL 1480 Rating	ULC-S541 Rating	Anechoic (nominal)
	1/4 W	0.25 W	80.9	81.5	81
25	1/2 W	0.50 W	84.1	84.3	84
VRMS	1 W	1.00 W	86.6	87.2	87
	2 W	2.00 W	89.7	90.1	90

25	1/2 W	0.50 W	84.1	84.3	84
VRMS	1 W	1.00 W	86.6	87.2	87
	2 W	2.00 W	89.7	90.1	90
	1/4 W	0.25 W	81.8	81.9	81
70	1/2 W	0.50 W	84.6	84.9	84
VRMS	1 W	1.00 W	87.3	88.2	87
	2 W	2.00 W	90.5	90.9	90

UL 1480: Sound level output at 10 ft (3.05 m) measured in a reverberant room using 400 to 4,000 Hz band limited pink noise. ULC-S541: Sound level output at 10 ft (3.05 m) measured in anechoic chamber using 0 to 4,000 Hz band limited pink noise.

ncy Models	
Sound Output Level	UL 1480: Sound level
80 dBA	output at 10 ft (3.05 m) measured in a reverber-
83 dBA	ant room using 400 to
86 dBA	<ul> <li>4,000 Hz band limited</li> <li>pink noise.</li> </ul>
89 dBA	
	Sound Output Level 80 dBA 83 dBA 86 dBA

DATA SHEET 85001-0642 Not to be used for installation purposes. Issue 1.2

lousing	Red or white textured UV stabilized, color impregnated engineered plastic.		
Dimensions	Height: 6.5" (165 mm). Width: 5" (127 mm). Depth to wall: 1" (25 mm).		
Nounting	Flush: North-American 4" square box, 2 1/8" (54 mm) deep.		
ndoor wall mount only)	Surface: model G4B (white) or G4RB (red) surface mount box.		
Vire Connections	Screw terminals: separate polarized inputs for speaker and strobe, #18 to #12 AWG (0.75 mm <sup>2</sup> to 2.5 mm <sup>2</sup> ) wire size		
Operating environment	32-120° F (0-49° C) ambient temperature; 0-93% relative humidity.		
Agency listings and approvals, G4 Models	Meets ULC-S541, year 2004 UL requirements for standards UL1638 and UL1971. Complies with UL1480 Fifth Edition. UL/ULC File Number: S2813. FM, MEA, CSFM approved. CSFM File Number: 7320-1657: 0211/0285. Speaker-strobes comply with ADA Code of Federal Regulation Chapter 28 Part 36 Final Rule.		
Agency listings and approvals, .ow Frequency G4HF Models	UL 464 Listed for low frequency signaling applications. Meets ULC-S541, year 2004 UL requirements for standards UL1638 and UL1971. Complies with UL1480 Fifth Edition. FM, MEA, CSFM pending. Speaker-strobes comply with ADA Code of Federal Regulation Chapter 28 Part 36 Final Rule.		
Speakers			
nput/Operating Volts	25 VRMS or 70 VRMS. See ordering information.		
Speaker Cone	Speaker frequency response: 400 to 4,000 Hz. Optimized for voice intelligibility. 4-inch (102mm) mylar cone, sealed back construction.		
Strobes			
Clear Strobe Output Rating	UL 1971, ULC S526: selectable 15 cd, 30 cd, 75 cd, or 110 cd output UL 1971: 15 cd (fixed 15/75 cd models) UL 1638, ULCS526: 75 cd (fixed 15/75 cd models)		
Amber Strobe Output Rating	UL 1638: 13 (D), 26 (C), 65 (B), 95 (A)		
Strobe Operating Voltage	16 - 33 Vdc Regulated, 16-33 V Full wave rectified (UL Voltage Designations "Regulated 24" and "24 fwr")		
Strobe Flash Rate	One flash per second.		
Strobe Flash Synchronization	All strobes: one flash per second (fps) within 200 milliseconds over 30 minutes on common circuit. All strobes: Synchronization source required to comply with UL 1971 synchronization standard. Temporal setting (private mode only): synchronized to temporal output on the same circuit.		
Synchronization Sources	SIGA-CC1S, SIGA-MCC1S, SIGA-CC2A, SIGA-MCC2A, G1M-RM BPS6A, BPS10A, APS6A, APS10A, iO Series, Fireshield Plus 3, 5 and 10 zone.		

## EST Life Safety & Communications

# Wall Speakers, Speaker-Strobes Genesis G4 Series

### Overview

The Genesis line of life safety and emergency communications speakers and speaker-strobes combine high performance output with a low profile design to deliver a life safety audio solution that's as versatile as it is effective. Protruding no more than one inch from the wall, these appliances blend inconspicuously with any decor.

Optional amber lens tints, ALERT or FIRE markings, and red or white housing colors ensure there is a device for every application, including mass notification and emergency communications.

Speakers feature selectable wattage taps, while speaker-strobes allow for both wattage and light output levels to be configured in the field. Both settings remain clearly visible — even after final installation, which allows devices to be easily fine-tuned to achieve maximum benefit in exchange for the lowest possible system overhead.

High fidelity models meet the NPFA 520 Hz requirements for newly construced commercial sleeping areas. They also produce crisp, clear voice audio output that is highly intelligible over large areas.

All Genesis speakers include a DC blocking capacitor to allow electrical supervision of the audio distribution circuit. Models for  $25 V_{RMS}$  and  $70 V_{RMS}$  audio circuits are available. With their sealed back construction, these speakers are extra durable and provide outstanding audibility.

Page 1 of 6

### Speaker Application

The suggested sound pressure level for each signaling zone used with alert or alarm signals is a minimum of 15 dB above the average ambient sound level or 5 dB above the maximum sound level having a duration of at least 60 seconds, whichever is greater. This is measured 5 feet (1.5 m)

Doubling the distance from the signal to the ear will theoretically cause a 6 dB reduction in the received sound pressure level. The actual effect depends on the acoustic properties of materials in the space. Doubling the power output of a device (e.g.: a speaker from 1W to 2W) will increase the sound pressure

above the floor.



level by 3dBA. G4 speakers are available in combination with a UL 1971-listed strobe light for indoor wall-mounted public-mode notification applications. These audible-visible appliances should be installed in accordance with guidelines established for visible (strobe) devices.

### **High Fidelity Models**

Genesis G4HF Series High Fidelity appliances provide highly intelligible voice audio output. They are also effective in areas subject to high levels of ambient noise. These appliances are approved for use in sleeping areas under conditions described below.

### Sleeping Room Applications

Genesis G4HF Series High Fidelity appliances are ideal for hotels, dormitories, and other residential occupancies where audible output must meet the 520 Hz signaling characteristics required by NFPA 72.

In sleeping areas, always ensure that the wattage tap of the speaker is set sufficiently high so that the sound pressure reaches at least 75 dBA-fast at the pillow.

These appliances are part of an end-to-end audio system approved for use in sleeping areas when used in conjunction with approved audio hardware and a factory-supplied 520 Hz tone. Check the System Compatibility List for other 520 Hz signaling requirements.

> **NOTE:** Speakers driven by third-party audio systems are not UL approved for use in sleeping rooms.

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### EST Catalog Speakers, Telephones



MEA 7320-1657: <u>S2813</u> See Specifications Section for listings details.

### Standard Features

• High Fidelity 520 Hz speaker models available Low frequency output meets NFPA standards for newly constructed commercial sleeping areas; increases sound fidelity and audio intelligibility.

### Unique low-profile design

- The most compact UL/ULC listed speaker-strobe available Ultra-slim, protrudes a mere one inch from the wall - Attractive appearance, no visible mounting screws

- Field configurable no need to remove the device  $-\frac{1}{4}$ ,  $\frac{1}{2}$ , 1, or 2 watt operation and selectable candela output with convenient switches that remain visible even after the unit is installed
- Mass Notification models available with amber lenses
- Unparalleled performance - loud 90 dBA output ensures clear, crisp audio
- Exclusive FullLight strobe technology produces
- even light distribution - Precision timing electronics meet tough synchronizing standards for strobes when used with compatible modules - Optional field-configurable temporal strobe output - 25 Vrms and 70 Vrms models available, all supplied with a DC blocking capacitor for audio circuit supervision

### Easy to install

Strobe Application

Mass Notification Applications

tion for details.

- Fits all standard 4-inch square electrical boxes with plenty of room behind the signal for extra wire – no extension ring or trim plate needed
- #18 #12 AWG terminals ideal for long runs or using existing wiring

Genesis clear-lensed strobes are UL 1971-listed for use indoors as

wall-mounted public-mode notification appliances for the hearing

impaired. Prevailing codes require strobes to be used where ambi-

hearing protection, and in areas of public accommodation. UL

ent noise conditions exceed specified levels, where occupants use

1638-listed colored-lensed strobe lights are available for mass no-

tification applications. Consult with your Authority Having Jurisdic-

When used with a compatible EDWARDS synchronization source,

all Genesis xenon-based strobes — audible units, and combination appliances — remain fully synchronized indefinitely. This exceeds

the UL synchronization requirements of 10 milliseconds over a two-

hour period. Strobe light synchronization is important in order to

that require differentiation between life safety and mass notifica-

Contact EDWARDS Customer Service for details.

Field Configuration

to be removed to change the wattage.

not have to be removed to change the output.

tion alerts. Appliances with red, green or blue lenses are available.

Genesis speakers may be set for 1/4, 1/2, 1, or 2 watt operation. The

wattage setting is visible through a small window on the bottom

of the device and is changed by simply sliding the switch until the

desired setting appears in the window. The speaker does not have

Genesis speaker-strobes feature selectable candela output. The

output setting is visible through a small window on the bottom of

desired setting appears in the window. The speaker-strobe does

the device and is changed by simply sliding the switch until the

avoid issues with people that have Photosensitive Epilepsy.

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Genesis mass notification

appliances bring the same

high-performance life safety features and unobtrusive

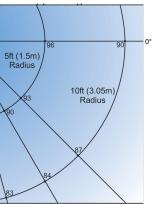
design to mass notification

applications. Standard mod-

els are available with clear or

amber lenses and optional ALERT housing labels, they are ideal for applications

### Typical Sound Output Distribution dBA Measured in anechoic chamber



Genesis Series Cone Speaker/strobe

Use the Candela Switch and th Wattage switch to set desired o

Genesis speaker-strobes may also be configured for temporal flash. This battery-saving feature is intended for private mode signaling only. To set the device for temporal flash, snip the circuit board as shown in the Jumper Locations diagram above.

**WARNING:** These devices will not operate without electrical power. As fires frequently cause power interruptions, we suggest you discuss further safeguards with your local fire protection specialist.

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DIVISION OF THE STATE ARCHITECT

7075 CAMPUS RD MOORPARK, CA 93021 TEL: (805) 378 - 1400

### PROJECT TITLE AND SCHOOL LOCATION ALTERATION OF TWO PORTABLE CLASSROOMS - M1 & M3

7075 CAMPUS RD. MOORPARK, CA 93021

COMMISSIONED ARCHITECT

CONSULTAN



amador whittle architects, inc. 28328 AGOURA RD, 203 | AGOURA HILLS CA, 91301 | 805-558-4334

لللا تحقا لنلولوتولد لذ الولالا CONSULTING ELECTRICAL ENGINEERS 3251 CORTE MALPASO, #511 CAMARILLO, CA 93012-8094

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CONSTRUCTION DRAWINGS 31 JULY 2024

## SHEET TITLE: MANUFACTURER DATA SHEETS FOR WALL SPEAKERS, SPEAKERS-**STROBES**

PROJECT NO.: 22-MPC-042 PROJECT ARCH: Designer

DRAWN: Author CHECKED: Checker SHEET NUMBER

E507

\_\_\_\_\_ OF \_\_\_\_ 7/31/24