ABBREVIATIONS INDEX TO DRAWINGS DESCRIPTION NUMBER ANGLE POUND LUXURY VINYL TILE **ARCHITECTURAL ANCHOR BOLT** ASPHALTIC CONCRETE A0.0 AS1 **COVER SHEET ADDITIONAL** MAXIMUM ADD'L. **OVERALL SITE PLAN** MECH. **MECHANICAL** ABOVE FINISH FLOOR **MANUFACTURER** ALUM. ALUMINUM ELECTRICAL SOLANO COMMUNITY COLLEGE APPROX. **APPROXIMATI** MINIMUM **MISCELLANEOUS** SHEET INDEX, SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES OVERALL FLOOR PLAN - ELECTRICAL BUILDING **LIGHTING PLAN - WEST BLOCKING LIGHTING PLAN - EAST** BUILDING 1800B LIGHTING UPGRADES - BID ALT #2 BOTTOM E3.1 E4.1 EXISTING BUILDING 1800B ONE-LINE POWER DIAGRAM **NOT IN CONTRACT** NO., # NUMBER CENTER LIN SCHEDULES NOT TO SCALE CEILING E5.1 **ELECTRICAL DETAILS** CLR. CLEAR TITLE 24 INDOOR LIGHTING COMPLIANCE FORMS E6.1 **CONTROL JOINT** TITLE 24 INDOOR LIGHTING COMPLIANCE FORMS CONCRETE MASONRY UNIT 4000 SUISUN VALLEY ROAD O.D. COLUMN OUTSIDE DIAMETER CONC. CONCRETE OVER TOTAL SHEET COUNT = 12 CONT. CONTINUOUS COLD WATER FAIRFIELD CA 94534 PLASTIC LAMINATE DOUBLE PLYWOOD DEMOLITION POUNDS PER SQUARE INCH DEPARTMENT PRESS METAL DRINKING FOUNTAIN PENETRATION THRU ROOF DIAMETER PRESSURE TREATED DIA., Ø DIMENSION DIST. DISTRICT DETAIL **ROOF DRAIN** REINFORCED DWG. DRAWING DOWNSPOUT REQUIRED **REVISIONS ROUGH OPENING OWNER ARCHITECT ELECTRICAL ENGINEER GENERAL NOTES** RWD. REDWOOD EACH **ELECTRICAL** ALL WORK IS NEW UNLESS SPECIFICALLY NOTED AS EXISTING. ALL WORK SHALL BE BY SOLANO COMMUNITY COLLEGE DISTRICT **HMR ARCHITECTS** WHITTINGTON ELECTRIC **SCHEDULE** G.C. UNLESS SPECIFICALLY NOTED BY OWNER, BY OTHERS, OR BY N.I.C. 4000 SUISUN VALLEY ROAD 2130 21st STREET 1940 INDUSTRIAL DR **ELEVATION** SIMILAR FAIRFIELD CA 94534 SACRAMENTO CA 95818 AUBURN CA 95603 SHEET METAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO HIS BID TO DETERMINE ACTUAL JOB SITE CONTACT: TONY VELASCO EQUIPMEN^T (916) 736-2724 (530) 823-3055 **SPECIFICATIONS** CONDITIONS AND REQUIRED EXTENT OF WORK FOR THIS PROJECT **EACH WAY** DIRECT: (916) 347-8396 **CONTACT: GRANT WATKINS** CONTACT: NATHAN BAER SQUARE FEET ET CETERA Email: grantw@hmrarchitects.com Email: nathan@whittingtonelectric.com Email: Tony.Velasco@solano.edu **EXPANSION** STAINLESS STEEL CONTRACTOR SHALL VERIFY OWNER REQUIREMENTS FOR WORK HOURS, ETC. WITH STANDARD PROJECT MANAGER PRIOR TO BIDDING AND COMMENCEMENT OF WORK. CONTRACTOR EXPANSION JOINT **EXTERIOR** STEEL SHALL COMPLY WITH ALL OWNER REQUIREMENTS STRUCTURAL SELF TAPPING SHEET CONTRACTOR SHALL PROVIDE A JOB SITE PHONE & EMAIL WITHIN (5) WORKING DAYS METAL SCREW FLOOR DRAIN AND INFORM ARCHITECT OF PHONE NUMBER AT CONSTRUCTION KICK-OFF MEETING. SANITARY SEWER FIRE EXTINGUISHER G.C. SHALL MAINTAIN A COMPUTER W/ EMAIL CAPABILITIES ON SITE AT ALL TIMES **FOUNDATION** FINISHED FLOOP CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND TONGUE & GROOVE NOTING ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS PRIOR TO BIDDING THE FACE OF STUD T.O.C. TOP OF CONCRETE/CURB PROJECT. CONTRACTOR SHALL CONTACT ARCHITECT FOR RESOLUTION PRIOR TO FOOT OR FEET T.O.F. TOP OF FRAMING PROCEEDING WITH RELATED WORK. OTHERWISE, CONTRACTOR IS RESPONSIBLE FOR T.O.M. **TOP OF MASONRY** CORRECTIONS AT NO EXTRA COST TO OWNER T.O.P. TOP OF PLATE/PARAPET GAUGE T.O.W. TOP OF WALL G.C. SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ALL FINISH MATERIALS & GALVANIZED GALV. TYP. EQUIPMENT AS SPECIFIED HEREIN. ANY DEVIATION IN COST DUE TO SHIPPING DELAYS **GENERAL CONTRACTOR** MATERIAL UPGRADES, SHALL BE BORN BY THE G.C. ALL MATERIALS NOT IDENTIFIED AS **GALVANIZED IRON** PROBLEMS PRIOR TO BID, SHALL BE THE RESPONSIBILITY OF THE G.C. TO SUPPLY AS GLUE LAMINATED BEAM UNLESS OTHERWISE NOTED U.O.N. NOTED ON THE BID FORM GYP. BD. **GYPSUM BOARD** ALL DEMOLITION IS INCLUDED IN THE BASE BID. CONTRACTOR SHALL PROVIDE ALL VERIFY IN FIELD DEMOLITION NECESSARY TO COMPLETE ALL NEW WORK AS INDICATED ON THE PLANS VINYL COMPOSITE TILE **HOLLOW METAL** VENT THRU ROOF THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL ADJACENT WORK AND HORIZONTAL SHALL COORDINATE WITH ALL OTHER TRADES SO AS TO FACILITATE THE GENERAL PROGRESS OF THE WORK. EACH TRADE SHALL AFFORD ALL OTHER TRADES EVERY HOLLOW STRUCTURAL SECTION REASONABLE OPPORTUNITY FOR THE INSTALLATION OF THEIR WORK AND FOR THE WITH STORAGE OF THEIR MATERIAL PROJECT CODE DATA **ADDITIVE ALTERNATE SCOPE #2** HEATING VENTILATION AIR WATER HEATER CONDITIONING WEIGHT GENERAL CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND QUANTITIES OF ITEMS EXISTING LUMINAIRES ARE TO BE REPLACED IN KIND. RE-USE EXISTING MOUNTING, AND DSA NUMBERS W.W.F. WELDED WIRE FABRIC TO BE REMOVED/REPLACED OR TO BE REINSTALLED PRIOR TO SUBMITTAL OF BID. G.C. RE-USE EXISTING CIRCUITING AND SWITCH LEGS SHALL NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES PRIOR TO THE BID DUE 2022 CBC **INSIDE DIAMETER** DATE FOR FURTHER CLARIFICATION - AS DEFINED IN BID INSTRUCTIONS INFORMATION INFO. CONSTRUCTION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE REGULATIONS, INCLUDING 10. G.C. WILL BE HELD RESPONSIBLE FOR COMPLETION OF ENTIRE WORK IN A MANNER/INTENT FOR THIS TYPE OF PROJECT REGARDLESS OF QUANTITIES SHOWN IN JUNCTION BOX 2022 CALIFORNIA ADMINISTRATIVE CODE, CCR, TITLE 24, PART 1 JOINT 2022 CALIFORNIA BUILDING CODE, VOL. 1 & 2, CCR, TITLE 24, PART 2 11. ANY EXISTING ITEMS SHOWN WITHOUT NOTATION FOR REMOVAL SHALL BE PROTECTED 2022 CALIFORNIA RESIDENTIAL CODE, CCR, TITLE 24, PART 2.5 THROUGHOUT DEMOLITION AND RENOVATIONS. G.C. WILL BE REQUIRED TO REPLACE 2022 CALIFORNIA ELECTRICAL CODE, CCR, TITLE 24, PART 3 ANY/ALL ITEMS TO REMAIN THAT ARE DAMAGED BY WORK AT NO ADDITIONAL COST TO 2022 CALIFORNIA MECHANICAL CODE, CCR, TITLE 24, PART 4 OWNER AND ALSO AT A QUALITY LEVEL EQUAL TO OR EXCEEDING THE ORIGINAL 2022 CALIFORNIA PLUMBING CODE, CCR, TITLE 24, PART 5 2022 CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6 SYMBOLS LEGEND 2022 CALIFORNIA FIRE CODE, CCR, TITLE 24, PART 9 ITEMS SHOWN TO BE REMOVED SHALL BE DISPOSED OF PROPERLY BY THE G.C. UNLESS 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CCR, TITLE 24, PART 11 OTHERWISE NOTED 2022 CALIFORNIA EXISTING BUILDING CODE, CCR, TITLE 24, PART 10 STATE FIRE MARSHAL REGULATIONS, CCR, TITLE 19, PUBLIC SAFETY SECTION NUMBER ROOM NUMBER INSTALLATION OF SPRINKLER SYSTEMS, 2019 EDITION NFPA 14: INSTALLATION OF STANDPIPE & HOSE SYSTEMS, SHEET WHERE SECTION NFPA 17: DRY CHEMICAL EXTINGUISHING SYSTEMS, 2021 EDITION WINDOW TYPE NFPA 20: STATIONARY PUMPS FOR FIRE PROTECTION, 2019 EDITION NFPA 24: PRIVATE FIRE MAINS & THEIR APPURTENANCES, 2022 EDITION NATIONAL FIRE ALARM & SIGNALING CODE, 2022 EDITION — DOOR NUMBER **DETAIL NUMBER** CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2018 EDITION THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE —HARDWARE GROUP CONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. OCCUPANCY CLASSIFICATION AND USE: **DETAIL IS DRAWN** SHOULD ANY CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE **BUILDING CONSTRUCTION TYPE:** III-B KEYNOTE DISCOVERED WHICH IS NOT COVERED BY THE THESE DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A **NUMBER OF STORIES:** ONE STORY **VICINITY MAP** CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS **ELEVATION NUMBER** EQUIPMENT NUMBER **BUILDING AREA IN SQUARE FEET:** DETAILING AND SPECIFYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED 27,145 SF BY DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK. SHEET WHERE ELEVATION IS FIRE SPRINKLERED: **REVISION NUMBER** FIRE ALARM: YEAR BUILDING WAS CONSTRUCTED: LOCATION NUMBER **INSPECTOR** SHEET WHERE ENLARGED IS THE BLDG. IN A HIGH FIRE HAZARD SEVERITY ZONE: NO PLAN IS DRAWN A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE FIRE SAFETY CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH CFC AND CBC CHAPTER 33 DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. CLASS 3 CONTROL NUMBER

DEFERRED APPROVALS

HMRARCHITECTS Sacramento, CA 95818

T 916 736 2724



BUILDING 1800B LIGHTING **UPGRADES** BID ALT #2

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

REVISIONS

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COVER SHEET

MARCH 20, 2025

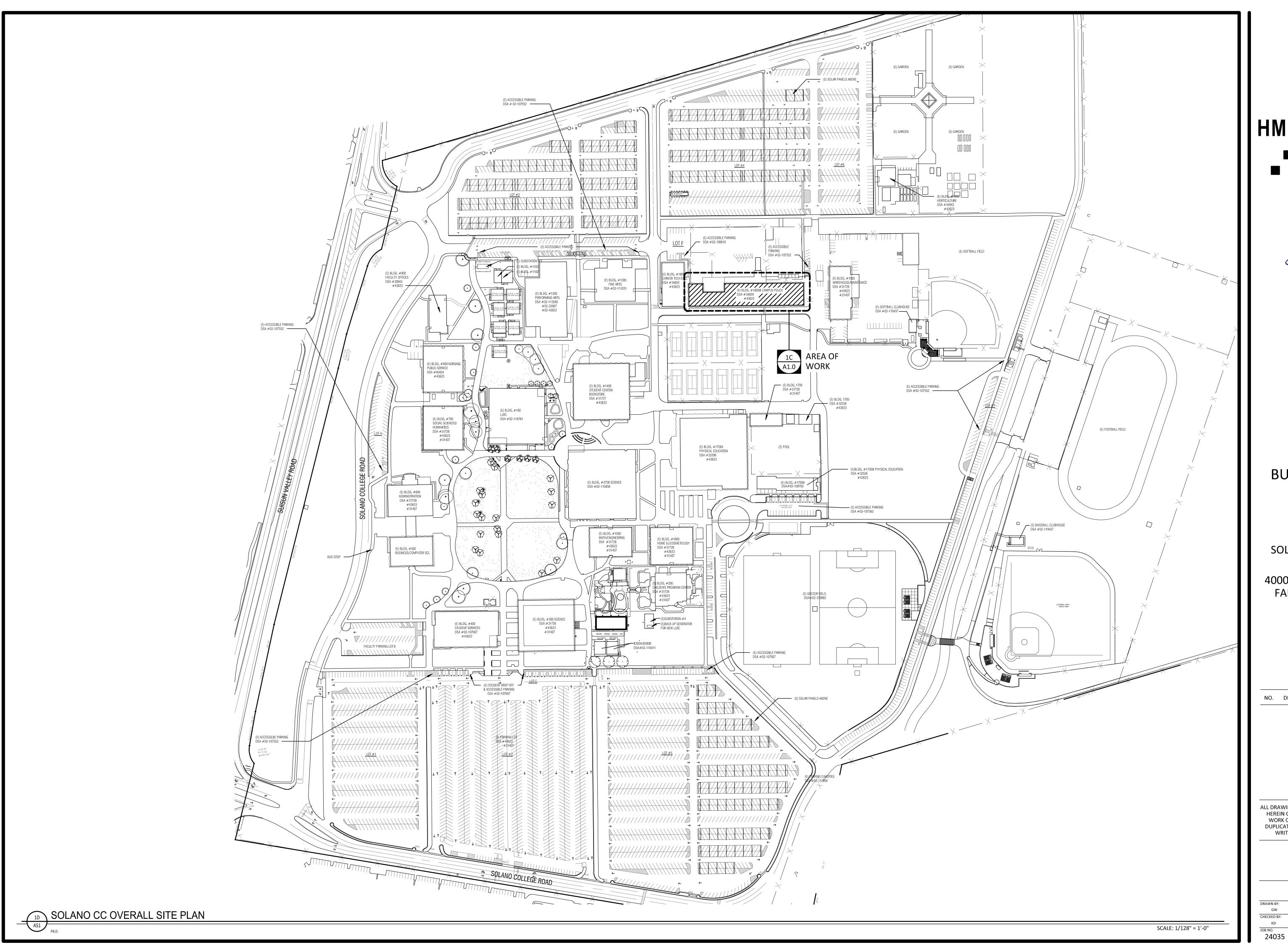
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NORTH

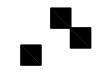
FastrackCE, LLC

PROJECT SITE

NOT TO SCALE



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OVERALL SITE PLAN

MARCH 20, 2025

CHECKED BY:

ABBREVIATIONS

INTERRUPTER

HAND-OFF-AUTO

GENERAL CONTRACTOR

GROUND FAULT CIRCUIT

GROUND FAULT PROTECTION

OC

OCP

OFCI

OL

ON CENTER

OVERCURRENT PROTECTION

THERMAL OVERLOAD RELAY

CONTRACTER INSTALLED

OWNER FURNISHED

GC

GFCI

HOA

MEP COMPONENT ANCHORAGE NOTE

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2022 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:

All permanent equipment and components.

DELTA

2W,3W,4W 2 WIRE, 3 WIRE, 4 WIRE

ALTERNATING CURRENT

AMPERES

ΑT

A, AMPS

AC

2. Temporary, movable or mobile equipment that is permanently attached (e.g., hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.

3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent

floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support

B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

RECEPTACLES AND OUTLET SYMBOLS

O O- JUNCTION BOX, SIZE AS INDICATED OR REQUIRED PER CODE

TELECOM/DATA SYMBOLS

SINGLE DATA OUTLET, 4-11/16" SQUARE x 2-7/8" DEEP BOX WITH 2-DEVICE RING AND PLATE. MOUNT AT +18" AFF UON. STUB 1" CONDUIT WITH INSULATED BUSHING INTO ACCESSIBLE CEILING SPACE.

LUMINAIRES SYMBOLS

- DOWNLIGHT OR CYLINDER LUMINAIRE, SURFACE MOUNTED ON CEILING
- DOWNLIGHT LUMINAIRE, RECESSED IN CEILING
- PENDANT LUMINAIRE, SUSPENDED FROM CEILING
- LUMINAIRE. WALL MOUNTED
- 0 SURFACE MOUNTED LUMINAIRE - CEILING
- RECESSED LUMINAIRE T-BAR CEILING
- RECESSED LUMINAIRE HARD-LID CEILING
- STRIP LUMINAIRE SURFACE MOUNTED ON CEILING
- SUSPENDED LINEAR LUMINAIRE
- LINEAR LUMINAIRE, WALL MOUNTED
 - BATTERY BACKUP LUMINAIRE WALL MOUNTED
- SHADED LUMINAIRE DENOTES EMERGENCY EGRESS LIGHT
- EXISTING LUMINAIRE TO REMAIN SHOWN THIN/FADED.

.UMINAIRE SUBSCRIPTS:

a,b,c... - LOWER CASE LETTER DENOTES SWITCH LEG A,B,C... - UPPER CASE LETTER DENOTES LUMINAIRE TYPE, SEE

LUMINAIRE SCHEDULE 1,2,3... - NUMBER INDICATES CIRCUIT

LIGHTING CONTROL SYMBOLS

- \$ SWITCH SINGLE POLE
- SWITCH THREE WAY
- SWITCH MANUAL DIMMING
- SWITCH OCCUPANCY
- OCCUPANCY SENSOR CEILING MOUNTED
- DAYLIGHT PHOTOCELL CEILING MOUNTED

LUMINAIRE CONTROLS SUBSCRIPTS:

- a,b,c... LOW CASE LETTER DENOTES SWITCH LEG
- KEYED SWITCH
- PILOT LIGHT
 - TIMER

LIGHTING GENERAL NOTES

- ALL LIGHTING AND LIGHTING CONTROLS SHALL COMPLY WITH TITLE 24 REQUIREMENTS.
- 2. LIGHTING CONTROL SYSTEM SHALL BE SUBMITTED AS A SHOP DRAWING BY CONTRACTOR.
- 3. COORDINATE/SCHEDULE WORK WITH UNIVERSITY AND PUBLIC SAFETY TO MINIMIZE IMPACT TO FACILITY OPERATIONS.
- 4. THIS IS A ENERGY SAVINGS PROJECT. ALL LUMINAIRES ARE A NET LOAD DECREASE TO EXISTING CIRCUITING.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 2022 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., HCAi OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems

MP MD PP E Option 1: Detailed on the approved drawings with project specific notes and details

MP MD PP E Option 2: Shall comply with HCAi (OSHPD) Preapproval (OPM #) , as included in these drawings with project-specific notes and details.

SHEET INDEX

SHEET NO. DESCRIPTION

- SHEET INDEX, SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES
- **OVERALL FLOOR PLAN ELECTRICAL**
- E1.0 E2.1 **LIGHTING PLAN - WEST**
- E2.2 **LIGHTING PLAN - EAST** E3.1 PARTIAL EXISTING ONE-LINE POWER DIAGRAM
- E4.1
- E4.2 **SCHEDULES** E5.1 **ELECTRICAL DETAILS**
- E6.1 TITLE 24 INDOOR LIGHTING COMPLIANCE FORMS
- E6.2 TITLE 24 INDOOR LIGHTING COMPLIANCE FORMS

ELECTRICAL EQUIPMENT SYMBOLS

- ELECTRICAL PANELBOARD SURFACE MOUNTED. SEE PANEL SCHEDULE.
- ELECTRICAL PANELBOARD FLUSH MOUNTED. SEE PANEL SCHEDULE.
- **SWITCHBOARD**

RACEWAY AND WIRING SYMBOLS

- BRANCH CIRCUIT WITHOUT CROSS HATCHES INDICATES 3/4" CONDUIT WITH 2 #12 AWG AND 1 #12 AWG GROUND, UON,
- BRANCH CIRCUIT WITH STRAIGHT CROSS HATCHES INDICATE NUMBER OF #12 AWG CONDUCTORS, CURVED HATCH INDICATES NUMBER OF #12 AWG GROUNDING ELECTRODE. 3/4" CONDUIT, UON.
- BRANCH CIRCUIT HOMERUN TO PANELBOARD INDICATED.
- CONDUIT RUN UNDERGROUND OR UNDERFLOOR
- EXISTING CONDUIT RUN. FIELD VERIFY ROUTING.
- EXISTING CONDUIT TO BE REMOVED OR ABANDONED. REMOVE WIRES. COORDINATE WITH OWNER.

GENERAL ELECTRICAL SYMBOLS

NUMBERED SHEET NOTE TAG

PLAN OR DETAIL REFERENCE TAG. TOP VALUE DENOTES DETAIL NUMBER. BOTTOM VALUE DENOTES SHEET

REVISION TAG

REVISION CLOUD

1-HOUR FIRE WALL SEPARATION

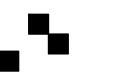
2-HOUR FIRE WALL SEPARATION

CORRD → ROOM NAME 1234 ROOM NUMBER

GENERAL ELECTRICAL NOTES

- WHERE PROVIDED. THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS ARE FOR REFERENCE ONLY. THROUGH-PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 Pa) OF WATER OR AS OTHERWISE PERMITTED IN CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCCORDANCE WITH THE INSTALLATION DETAILS FOR THE LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION SHALL BE SUBMITTED FOR OSHPD FDD REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRE-STRESSED CONCRETE (PRE- OR POST-TENSIONED) LOCATE THE PRE-STRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
- CONTRACTOR SHALL MAKE ALL SITE CONDITIONS KNOWN PRIOR TO BID.

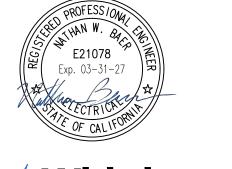
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2130 21st Street







BUILDING 1800B LIGHTING **UPGRADES** BID ALT #2

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ELECTRICAL SYMBOLS, ABBREVIATIONS, AND

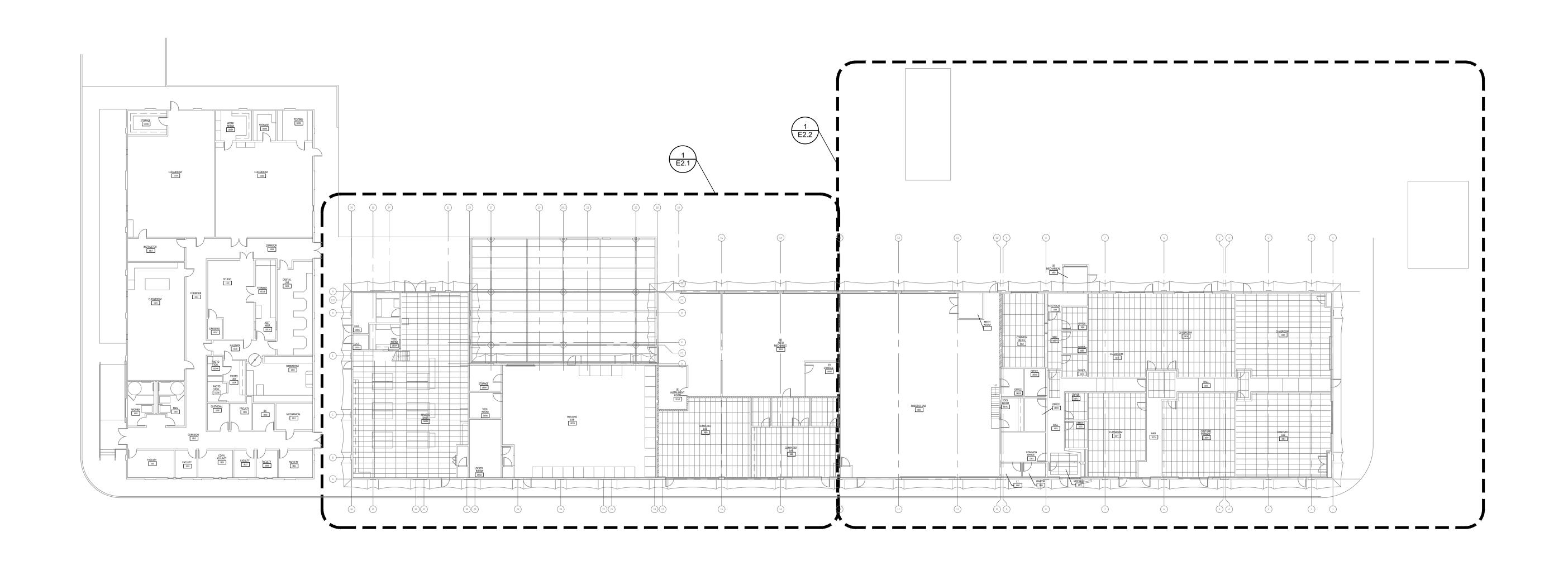
MARCH 20, 2025

GENERAL NOTES

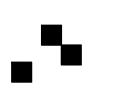
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Whittington Electric Inc.

1940 Industrial Drive • Auburn, CA 95603
Office (530) 823-3055 • Fax (530) 823-3066

BUILDING 1800B
LIGHTING
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OVERALL FIRST FLOOR PLAN -ELECTRICAL

MARCH 20, 2025

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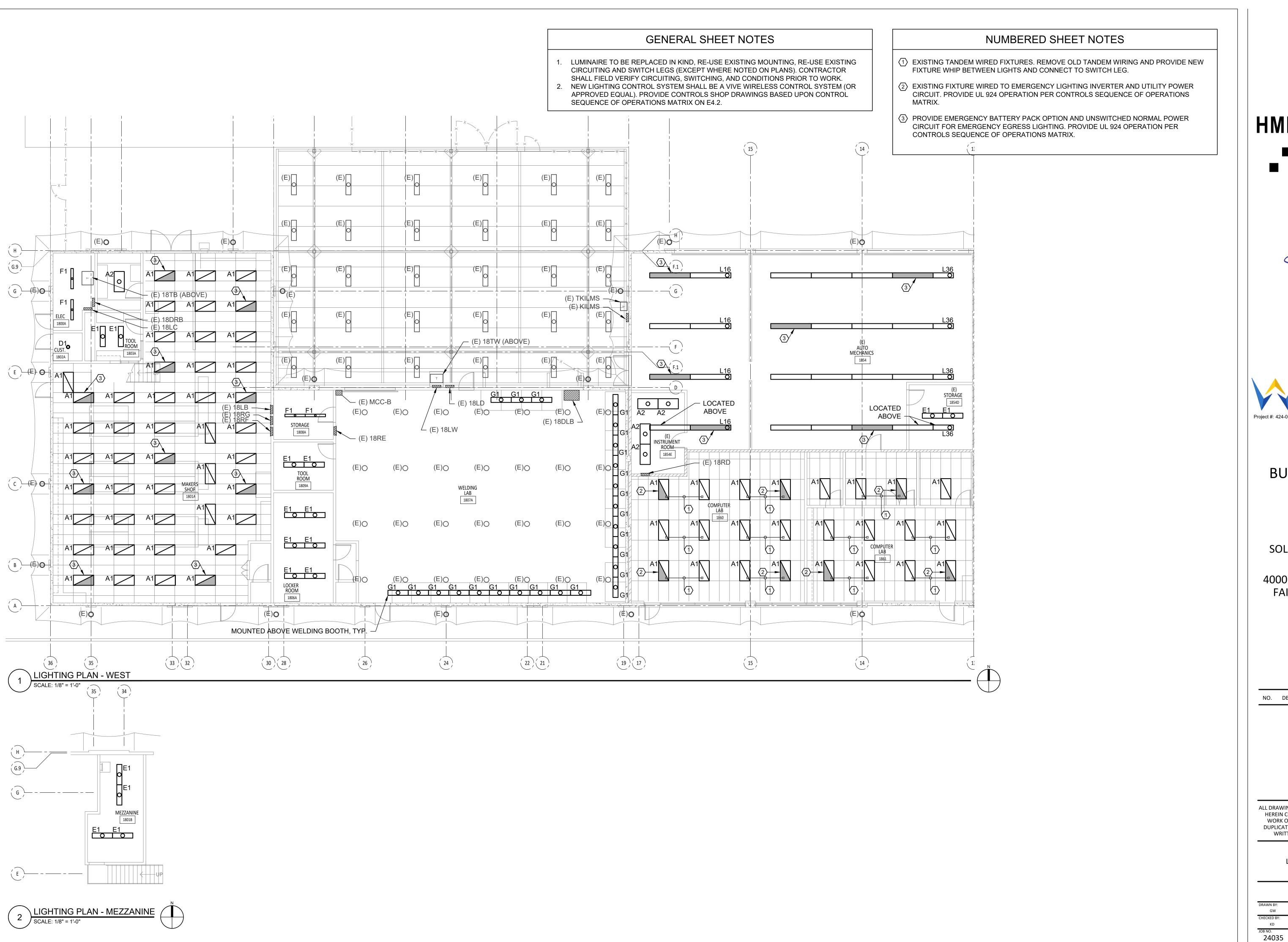
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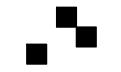
E1.0

OVERALL FIRST FLOOR PLAN - ELECTRICAL

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BUILDING 1800B LIGHTING **UPGRADES** BID ALT #2

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LIGHTING PLAN - WEST

MARCH 20, 2025

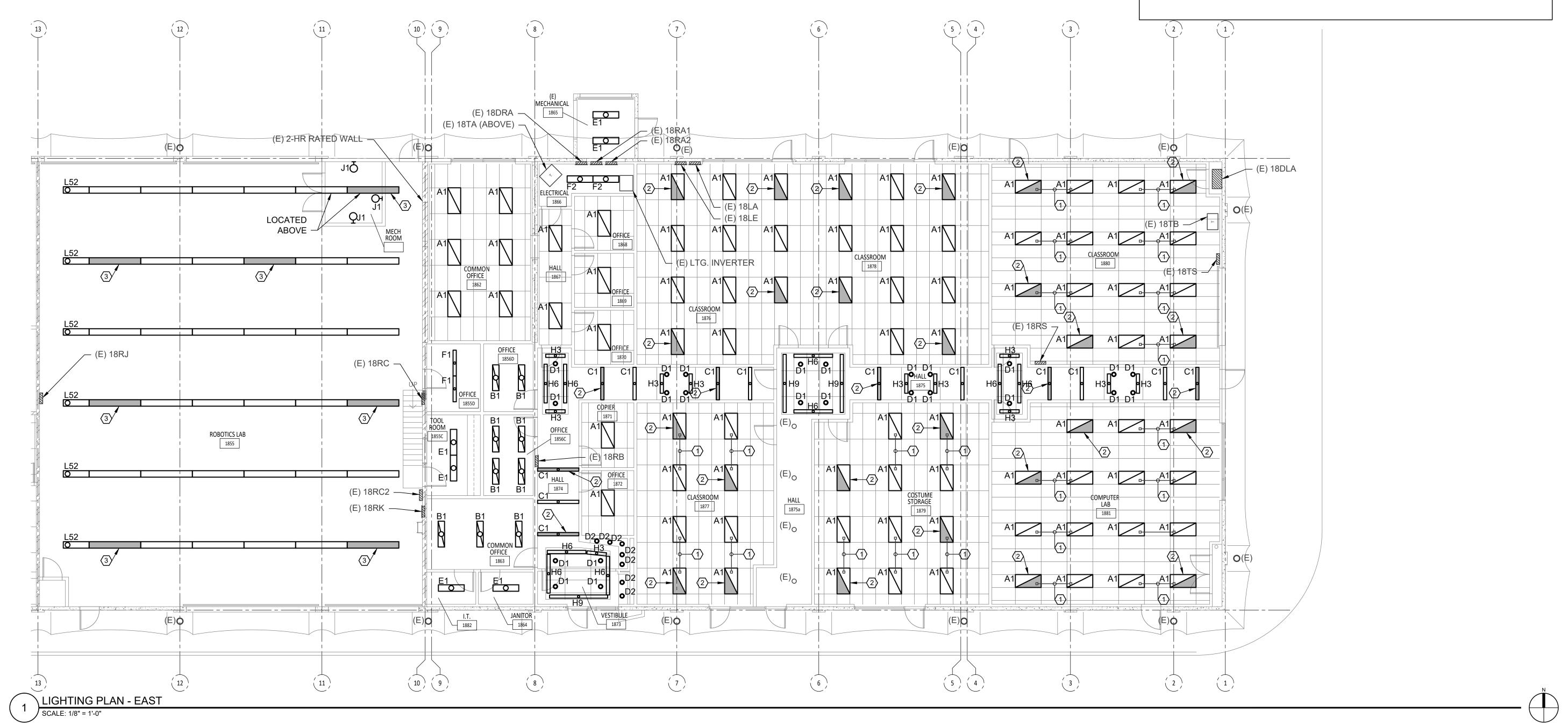
E2.1

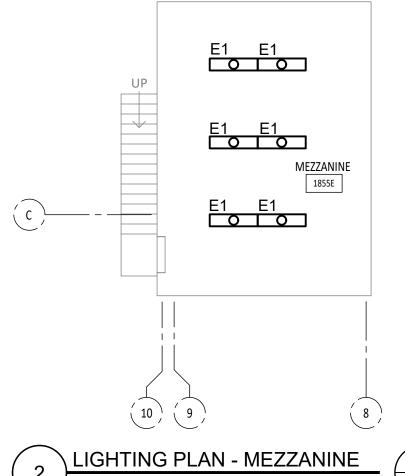
GENERAL SHEET NOTES

- LUMINAIRE TO BE REPLACED IN KIND, RE-USE EXISTING MOUNTING, RE-USE EXISTING CIRCUITING AND SWITCH LEGS (EXCEPT WHERE NOTED ON PLANS). CONTRACTOR SHALL FIELD VERIFY CIRCUITING PRIOR TO WORK.
- NEW LIGHTING CONTROL SYSTEM SHALL BE A VIVE WIRELESS CONTROL SYSTEM (OR APPROVED EQUAL). PROVIDE CONTROLS SHOP DRAWINGS BASED UPON CONTROL SEQUENCE OF OPERATIONS MATRIX ON E4.2.

NUMBERED SHEET NOTES

- (1) EXISTING TANDEM WIRED FIXTURES. REMOVE OLD TANDEM WIRING AND PROVIDE NEW FIXTURE WHIP BETWEEN LIGHTS AND CONNECT TO SWITCH LEG.
- (2) EXISTING FIXTURE WIRED TO EMERGENCY LIGHTING INVERTER AND UTILITY POWER CIRCUIT. PROVIDE UL 924 OPERATION PER CONTROLS SEQUENCE OF OPERATIONS MATRIX.
- 3 PROVIDE EMERGENCY BATTERY PACK OPTION AND UNSWITCHED NORMAL POWER CIRCUIT FOR EMERGENCY EGRESS LIGHTING. PROVIDE UL 924 OPERATION PER CONTROLS SEQUENCE OF OPERATIONS MATRIX.





2130 21st Street
Sacramento, CA 95818
T 916 736 2724

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BUILDING 1800B

LIGHTING UPGRADES BID ALT #2

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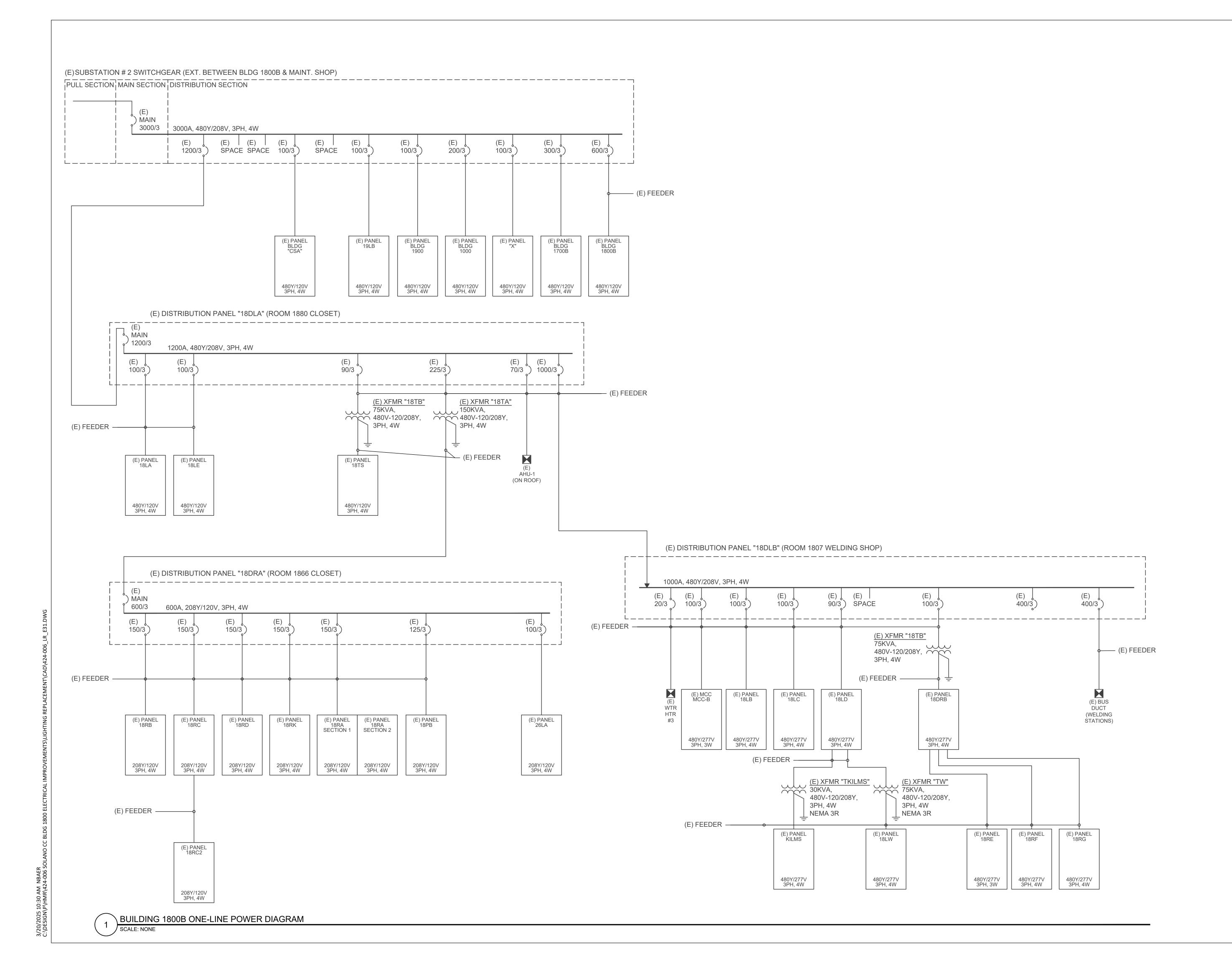
LIGHTING PLAN - EAST

MARCH 20, 2025

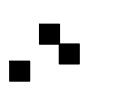
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E2.2

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HMRARCHITECTS



2130 21st Street Sacramento, CA 95818 T 916 736 2724





Whittington Electric Inc.

Project #: 424-006

1940 Industrial Drive • Auburn, CA 95603
Office (530) 823-3055 • Fax (530) 823-3066

BUILDING 1800B LIGHTING UPGRADES BID ALT #2

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

REVISIONS

NO. DESCRIPTION

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING
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DUPLICATED, USED OR DISCLOSED WITHOUT THE
WRITTEN CONSENT OF HMR ARCHITECTS

EXISTING BUILDING 1800B ONE-LINE POWER DIAGRAM

MARCH 20, 2025

DRAWN BY:

GW

CHECKED BY:

KD

JOB NO.

24035

E3.1

ocation:	EXT. WELDI	NG SHO	OP		Volts:		120/2	08Y			Mains:		MAIN LUGS ONLY
Supply From:					Phases:		3				Bus Rat		200A
Mounting:	Surface				Wires:		4				AIC Rat		
Load Description	Load (VA)	Load Type	Phase	Circuit Amp	Breaker Pole	Ckt #	Ckt	Circuit Amps		Phase	Load Type	Load (VA)	Load Description
RECEPT WEST		.,,,,,	Α	20	1	1	2	20	2	Α	.,,,,		METAL LIGHTING BAND SAW
RECEPT EAST			В	20	1	3	4	-	-	В			I-
ELECTRIC REEL			С	20	1	5	6	20	1	С			RECEPTACLE
CANOPY LIGHTING			Α	20	1	7	8	20	1	Α			RECEPTACLE
ARD LIGHTING			В	20	1	9	10	20	1	В			LIGHT CONTROL LCC
GRINDER			С	20	1	11	12	20	3	С			GRINDER
GRINDER			Α	20	1	13	14	-	-	Α			-
GRINDER			В	20	1	15	16	-	-	В			-
GRINDER			С	20	1	17	18	50	3	С			CHOP SAW
PACE			Α			19	20	-	-	Α			-
SPACE			В			21	22	-	-	В			-
SPACE			С			23	24			С			SPACE
SPACE			Α			25	26			Α			SPACE
SPACE			В			27	28			В			SPACE
SPACE			С			29	30			С			SPACE
SPACE			Α			31	32			Α			SPACE
SPACE			В			33	34			В			SPACE
SPACE			С			35	36			С			SPACE
SPACE			Α			37	38			Α			SPACE
SPACE			В			39	40			В			SPACE
SPACE			С			41	42			С			SPACE

Existing Panel:	18LA												
Location:	Rm 1876				Volts:		277/4	80Y			Mains:		MAIN LUGS ONLY
Supply From:	18DLA				Phases:	:	3				Bus Rat	ing:	100A
Mounting:	Flush				Wires:		4				AIC Rat	ing:	Field Verify
Load Description	Load (VA)	Load Type	Phase	Circuit Amp	Breaker Pole	Ckt #	Ckt #	Circuit Amps		Phase	Load Type	Load (VA)	Load Description
LIGHTING			Α	20	1	1	2	20	1	Α			LIGHTING
LIGHTING			В	20	1	3	4	20	1	В			LIGHTING
LIGHTING			С	20	1	5	6	20	1	С			LIGHTING
LIGHTING			Α	20	1	7	8	20	1	Α			LIGHTING
LIGHTING			В	20	1	9	10	20	1	В			LIGHTING
LIGHTS 1881,1879,1877			С	20	1	11	12	20	1	С			LIGHTING
LIGHTS 1880,1878			Α	20	1	13	14	20	1	Α			LIGHTING
LIGHTING			В	20	1	15	16	20	1	В			LTS 1869,86,70,72
LIGHTING			С	20	1	17	18	20	1	С			LIGHTING
IGHTING			Α	20	1	19	20	20	1	Α			EMERG. LIGHTS
IGHTING			В	20	1	21	22	20	1	В			LIGHTING 1876
IGHTS 1864,63,82,72			С	20	1	23	24	20	1	С			SPARE

<u>Notes:</u>													
 No load change. 													
2. Add Alternate #1. See Plans.													

Existing Panel:	18DRB												
Location:	MECH RM 1	800A			Volts:		120/20	08Y			Mains:		MAIN LUGS ONLY
Supply From:					Phases		3				Bus Rat	ing:	225A
Mounting:	Surface				Wires:		4				AIC Rat		
		Load		Circuit	Breaker	Ckt		Circuit I	Breaker		Load		
Load Description	Load (VA)	Туре	Phase	Amp	Pole	#	#	Amps	Poles	Phase	Туре	Load (VA)	Load Description
NIGHT LIGHTING			Α	20	1	1	2	20	1	Α			NIGHT LIGHTING
NIGHT LIGHTING			В	20	1	3	4	20	1	В			BMS CONTROL
RECEPTACLE			С	20	1	5	6	20	1	С			CLOCK RECTIFIER
F.A. PANEL			Α	20	2	7	8	20	1	Α			EXIST LOAD
-			В	-	-	9	10	20	1	В			CHWP CONTROL
PANEL 18RF			С	150	3	11	12			С			PANEL 18RG
-			Α	-	-	13	14			Α			-
-			В	-	-	15	16			В			-
PANEL 18LE			С	150	3	17	18			С			SPACE
-			Α	-	-	19	20	•		Α			SPACE
-			В	-	-	21	22			В			SPACE
#1 COMPRESSOR			С			23	24			С			SPACE
-			Α			25	26			Α			SPACE
-			В			27	28			В			SPACE
SPACE			С			29	30			С			SPACE
			Α			31	32			Α			
			В			33	34			В			
			С			35	36			С			
			Α			37	38			Α			
			В			39	40			В			
			С			41	42			С			

Mounting:	Surface				Wires:	4	4				AIC Rat	ing:	
Load Description	Load (VA)	Load	Phase		Breaker	1 1		Circuit		Phase	Load	Load (VA)	Load Description
	•	Туре		Amp	Pole	#	#	Amps	Poles		Туре		
LIGHTS MACH SHOP			A	20	1	1	2	20	1	A	<u> </u>		LIGHTS WELD SHOP
LIGHTS MACH SHOP			В	20	1	3	4	20	1	В	ļ		LIGHTS WELD SHOP
LIGHTS MACH SHOP			С	20	1	5	6	20	1	С	ļ		LIGHTS WELD SHOP
LIGHTS WELD BOOTH			Α	20	1	7	8	20	1	A			LIGHTS 1803,06,09, ME
LIGHTS ON ROOF			В	20	1	9	10	20	1	В			SPARE
SPARE			С	20	1	11	12	20	1	С			
SPARE			Α	20	1	13	14	20	3	Α			CHWP PUMP
SPARE			В	20	1	15	16	-	-	В			-
SPARE			С	20	1	17	18	-	_	С			-
SPARE			Α	20	3	19	20	20	3	Α			SPARE
•			В	-	-	21	22	-	-	В			-
-			С	-	-	23	24	-	-	С			-
WATER HEATER			Α	20	3	25	26			Α			SPACE
-			В	-	-	27	28			В			SPACE
_			С	_	-	29	30			С			SPACE
SPACE			Α			31	32			Α			SPACE
			В			33	34			В			
			C			35	36			C	<u> </u>		
			A			37	38			A			
			В			39	40			В			
			С			41	42			C			
<u>Notes:</u> 1. No load change. 2. Add Alternate #1. See Plans.			•			***************************************			******************************		***************************************		
Existing Panel: Location: Supply From:	18RC ROOM 1855				Volts: Phases:		 120/2	08Y			Mains: Bus Rat		200A 225A
Mounting:	Flush			·	Wires:	,	4			·	AIC Rat	ing:	,
Load Description	Load (VA)	Load	Phase	Circuit	Breaker	Ckt	Ckt	Circuit	Breaker	- Phase	Load	Load (VA)	Load Description

Existing Panel:

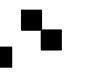
Supply From:

18LC

ROOM 1800A

	Load Type	Phase A B C		Volts: Phases: Wires: Breaker Pole 1		#	OBY Circuit I		ĺ	Mains: Bus Rat AIC Rat Load	_	200A 225A
()(A)		A B	Circuit Amp 20	Wires: Breaker Pole 1	Ckt #	Ckt #				AIC Rat	_	225A
()(A)		A B	Circuit Amp 20	Breaker Pole 1	Ckt #	Ckt #					ing:	
		A B	Amp 20	Pole 1	#	#				Load		
		В	20	1	1			Poles	Phase	Type	Load (VA)	Load Description
			20	1		2	20	1	Α			HYD CORD DROP
				1	3	4	20	1	В			HYD CORD DROP
			20	1	5	6	20	1	С			HYD CORD DROP
		Α	20	1	7	8	20	1	A			FANUC CORD REEL
1		В	20	1	9	10	20	1	В			FANUC CORD REEL
		С	20	1	11	12	20	1	С			FANUC CORD REEL
		Α	20	1	13	14	20	1	Α			RECPTS E. & S. WALL
		В	20	1	15	16	20	1	В			RECPT S. WALL JAN.
		С	20	1	17	18	20	1	С			LIGHTS
		Α	20	3	19	20	20	1	Α			LIGHTS
		В	-	-	21	22	30	2	В			WALL HEATER
		С	-	-	23	24	-	-	С			-
		Α	20	1	25	26	100	3	Α			PANEL 18RC2
		В	20	1	27	28	-	-	В			-
		С	20	1	29	30	-	-	С			-
		Α	60	3	31	32	70	3	Α			VF2 CNC
		В	-	-	33	34	-		В			-
		С	-	-	35	36	-	-	С			-
		Α	20	1	37	38	20	1	Α			CORD REEL 28
		В	20	1	39	40	20	1	В			SHUNT
		С	20	1	41	42	20	1	С			DROP 51
			B C C A B C C A B B C C A B B C C A B B C C A B B C C A B B C C A B B C C A B B C C A B B C C A B B C C A B B C C A B B C C A B B B C C A B B B C C A B B B C C A B B B C C A B B B C C A B B B C C A B B B C C A B B B C C A B B B C C A B B B C C A B B B C C A B B B C C C A B B B C C C A B B B C C C A B B B B	B 20 C 20 A 20 B - C - A 20 B 20 C - A 60 C 20 A 60 B - C 20 A 60 B - C 20 A 60 B - C 30 B - C 40 B - C 50 B - C 60 B - C 7	B 20 1 C 20 1 A 20 3 B C A 20 1 B 20 1 C 20 1 A 60 3 B C 20 1 A 60 3 B C 20 1 A 60 3 B C A 20 1 B 20 1	B 20 1 15 C 20 1 17 A 20 3 19 B - 21 C - 23 A 20 1 25 B 20 1 27 C 20 1 29 A 60 3 31 B - 33 C - 35 A 20 1 37 B 20 1 39	B 20 1 15 16 18 20 20 20 20 20 3 19 20 20 20 20 20 20 20 20 20 20 20 20 20	B 20 1 15 16 20 C 20 1 17 18 20 A 20 3 19 20 20 B 21 22 30 C 23 24 - A 20 1 25 26 100 B 20 1 27 28 - C 20 1 29 30 - A 60 3 31 32 70 B 33 34 - C 35 36 - A 20 1 37 38 20 B 20 1 39 40 20	B 20 1 15 16 20 1 18 20 1 18 20 1 18 20 1 18 20 1 1 18 20 1 1 20 20 1 1 20 20 1 1 20 20 1 1 20 20 20 1 20 20 20 1 20 20 20 1 20 20 20 1 20 20 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20	B 20 1 15 C 20 1 17 A 20 3 19 B - - 21 C - - 23 A 20 1 25 B 20 1 25 B 20 1 27 C 20 1 29 A 60 3 31 B - - 33 C - - 35 A 20 1 37 B - - 35 A 20 1 37 B 20 1 37 B 20 1 39 40 20 1 B	B 20 1 15 16 20 1 B 1 C 18 20 1 C 18 20 1 C 18 20 1 C 1 18 20 1 C 1 20 20 1 A 20 1 A 20 20 1 A 20 2 B 20 20 1 A 20 2 B 20 2 B 20 2 B 20 1 20 2 B 20 1 20 2 2 B 2 24 - - C C 2 26 1000 3 A A 3 3 3 2 28 - - B 3 30 - - C - 3 33 32 70 3 A A 3 34 - - B 3 34 - - B - - - - - - - - <td>B 20 1 15 16 20 1 B 1 16 20 1 B 1 18 20 1</td>	B 20 1 15 16 20 1 B 1 16 20 1 B 1 18 20 1





MAIN LUGS ONLY

Bus Rating:

AIC Rating:









BUILDING 1800B LIGHTING **UPGRADES** BID ALT #2

SOLANO COMMUNITY COLLEGE

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SCHEDULES

MARCH 20, 2025

DRAWN BY:
GW
CHECKED BY:
KD
JOB NO.
24035

E4.1

2. Panel to remain as existing.

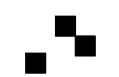
		LUMINAIRE S	CHEDUI	LE							
	Manufactuer	Mounting			Input	CRI	Efficacy		Controls		
Labe]	Catalog #	Description	CCT	Voltage	Wattage	Lumens	(lm/W)	Dimming	Occupancy	Daylighting	Notes
A1	H.E. Williams PTR-24-L38/835-RA-VDO/DSR-UNV	Ceiling Recessed T-Bar 2'x4' Retrofit LED Luminaire	3500K	120-277V	28.5 W	80 3,782	133	Wireless	Integral	Integral	1
A2	H.E. Williams PTR-24-L38/835-RA-VDO/DSR-UNV	Ceiling Surface 2'x4' Retrofit LED Luminaire	3500K	120-277V	28.5 W	80 3,782	133	Wireless	Integral	Integral	1
В1	H.E. Williams PTR-14-L27/835-RA-VDO/DSR-UNV	Ceiling Recessed Gypsum 1'x4' Retrofit LED Luminaire	3500K	120-277V	18.8 W	80 2,626	140	Wireless	Integral	Integral	1
С1	Green Creative 12T8/4F/835/DEB	Lamp Retrofit 4ft T8 Bypass LED Retrofit	3500K	120-277V	12.0 W	82 1,700	142	No	No	No	2
D1	H.E. Williams 6CRD-LS/9CS0WH-DIM-UNV	Celing Recessed T-Bar 6" Round LED Downlight	3500K	120-277V	11.9 W	90 1200	102	0-10V	No	No	3
D2	H.E. Williams 6CRD-LS/9CS0WH-DIM-UNV	Celing Recessed Gypsum 6" Round LED Downlight	3500K	120-277V	11.9 W	90	102	0-10V	No	No	3
E1	H.E. Williams PTS-14-L27/835-RA-VDO/DSR-UNV	Ceiling Surface 1'x4 LED Luminaire	3500K	120-277V	21.4 W	80 2,723	127	Wireless	Integral	Integral	1
F1	H.E. Williams 75R-4-L30-80-35-DIM-UNV	Ceiling Surface 4ft Narrow Linear LED Strip	3500K	120-277V	19.7 W	80 2,916	148	0-10V	No	No	
F2	H.E. Williams 75R-4-L50-80-35-DIM-UNV	Chain Mounted 4ft Narrow Linear LED Strip	3500K	120-277V	33.0 W	80 4,867	148	0-10V	No	No	
G1	H.E. Williams 80R-4-L52-8-DIM-UNV	Welding Booth Mounted 4ft Industrial Linear LED Strip	3500K	120-277V	37.6 W	80 5,224	139	0-10V	No	No	4
Н3	MARK ARCHITECTURAL LIGHTING MCV504-LLP-3FT-MSL3-MCFMC-80CRI-35K-400LMF-ASYM-MIN1-MVOLT-SGW-	Cove 3ft LED Cove Light	3500K	120-277V	10.2 W	80 1,200	128	0-10V	No	No	
Н6	MARK ARCHITECTURAL LIGHTING MCV504-LLP-6FT-MSL3-MCFMC-80CRI-35K-400LMF-ASYM-MIN1-MVOLT-SGW-	Cove 6ft LED Cove Light	3500K	120-277V	20.4 W	80 2,400	128	0-10V	No	No	
Н9	MARK ARCHITECTURAL LIGHTING MCV504-LLP-9FT-MSL3-MCFMC-80CRI-35K-400LMF-ASYM-MIN1-MVOLT-SGW-	Cove 9ft LED Cove Light	3500K	120-277V	30.6 W	80 3,600	128	0-10V	No	No	
J1	Signify Stonco LPW16-20W-NW-G3-4-UNV-DGY	Wall Surface LED Wall Sconce	3500K	120-277V	22.0 W	70 2,725	122	0-10V	No	No	
L16	H.E. Williams MX4-16'00-L8/835-F-DIM-UNV	Existing Strut on Joist 16ft Continous Linear LED	3500K	120-277V	116.8 W	80 13,184	109	0-10V	No	No	
L36	H.E. Williams MX4-36'00-L8/835-F-DIM-UNV	Existing Strut on Joist 36ft Continous Linear LED	3500K	120-277V	262.8 W	80 29,664	109	0-10V	No	No	
L52	H.E. Williams MX4-52'00-L8/835-F-DIM-UNV	Existing Strut on Joist 52ft Continous Linear LED	3500K	120-277V	379.6 W	80 42,848	109	0-10V	No	No	

- . Includes integral occupancy sensor, photocell, and Lutron Vive controller.
- 2. Bypass and remove fluorescent ballast. Provide line voltage tombstones.
- 3. Field selectable luminaire. Select indicated lumens and CCT.
- . Welding Booth Task Lighting

		LIGHT	NG SE	QUENCE OF	OPERATION	NS MATRIX			
					CONTROL TYPE				
ROOM TYPE		OCCUPANCY SENSOR		DAYLIG	HT SENSOR	WALLSTATIONS	UL924 EMERGENCY DEVICES	DEMAND RESPONSE	NOTES
	ON OPERATION	OFF OPERATION	TIMEOUT	PRIMARY ZONE	SECONDARY ZONE	WALLSTATIONS	OH924 EFERGENCI DEVICES	DEMAND RESPONSE	NOIES
Classrooms	MANUAL ON	VACANCY OFF OR MANUAL OFF	20 MIN	YES IN DA	YLIGHT AREAS	WIRELESS DIMMING			1,2,4
Electrical/Mechanical	MANUAL ON	MANUAL OFF	_		_	EXISTING ON/OFF			
Equipment Rooms	MANUAL ON	110 LADNAM	_			EVIDITING ON/OLL		NETWORK CONNECTED	
Custodian/Janitor,								DEVICES DIM TO	
Tool, Instrument,	MANUAL ON	VACANCY OFF OR MANUAL OFF	5 MIN		-	OCCUPANCY ON/OFF	WHERE INDICATED ON PLANS	75% OUTPUT UPON	3
Storage Rooms							WHERE INDICATED ON PLANS	RECEIPT OF DEMAND	
IT Room	MANUAL ON	VACANCY OFF OR MANUAL OFF	15 MIN			OCCUPANCY ON/OFF		RESPONSE SIGNAL.	3
Offices	MANUAL ON	VACANCY OFF OR MANUAL OFF	15 MIN		-	WIRELESS DIMMING		RESPONSE SIGNAL.	1,4
Welding Bays	MANUAL ON	MANUAL OFF	-		_	WIRELESS DIMMING			1,4
Corridors	OCCUPANCY ON	DIM UPON VACANCY, SCHEDULE OFF	15 MIN		_	WIRELESS ON/OFF			1,2,4
Numbered Notes:				1		I			1

- 1. Remove existing light switches and connect switch leg to line voltage.
- 2. Provide emergency battery pack where indicated on plans.
- 3. Replace existing wall switches
- 4. Provide Lutron Vive load controllers or integral sensors for wireless control of lighting. Load controllers must be 0-10V and emergency type where connected to emergency lights.
- 5. Provide Vive wireless occupancy sensors in classrooms with luminaires without integral Vive controllers (L16, L36, L52, H3, H6, H9, D1, D2, ETC)
- 1. Provide Lutron Vive Hubs for building wide scheduling, programming, and UL924 compliance. Connect Hub to nearby lighting inverter circuit. Provide with Lutron LUT-ELI Emergency
- Lighting Interface connected to inverter circuit and an unswitched utility power circuit for loss of utility detection. 2. Contractor to provide Control Shop drawings.
- 3. Alternate equivalent manufacturers accepted. Submit alternate fixtures and controls for approval.

HMR ARCHITECTS



2130 21st Street Sacramento, CA 95818 T 916 736 2724







BUILDING 1800B LIGHTING **UPGRADES** BID ALT #2

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4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

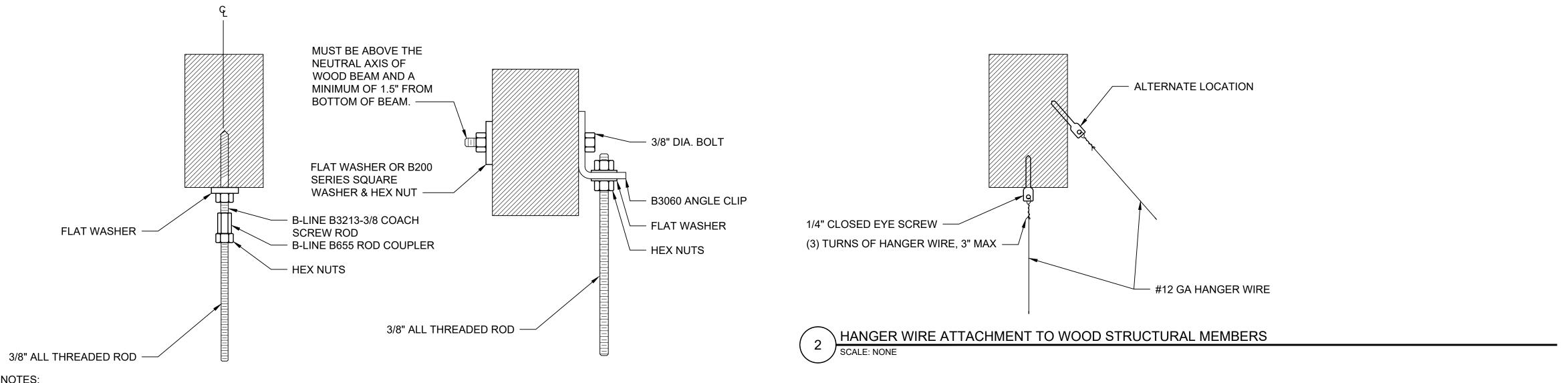
REVISIONS

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SCHEDULES

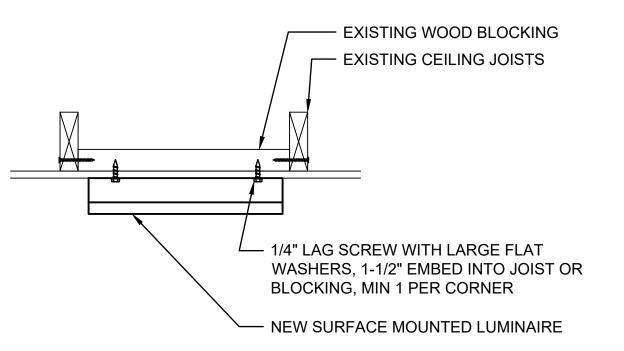
MARCH 20, 2025



NOTES:

1. GENERAL SUPPORT DETAIL FOR THREADED ROD CONDUIT SUPPORT HANGERS, SEE DETAIL 11/E5.1.

THREADED ROD ATTACHMENT TO STRUCTURAL MEMBERS



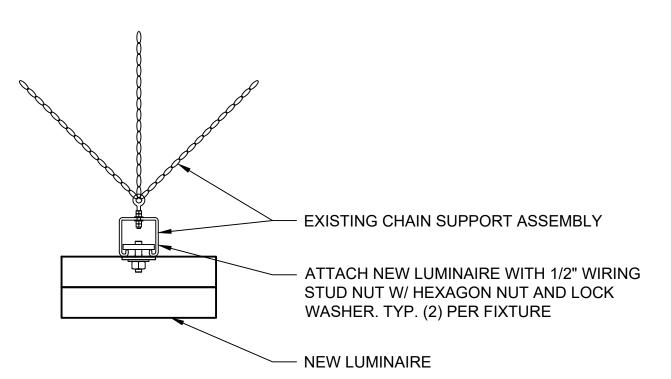
EXISTING REPLACED SURFACE MOUNTED LUMINAIRE

EXISTING SOFFIT STUD —— MFR PROVIDED MOUNTING BRACKET @ 24" MAX OC — - SECURE EACH BRACKET TO STUD WITH #10 X 2.5" SCREW NEW COVE LIGHT (TYPE H3, H6, H9) —

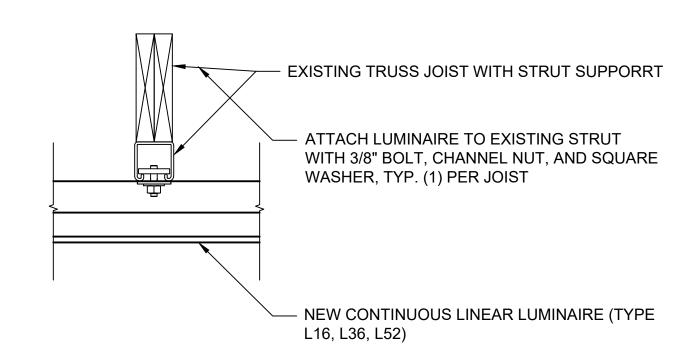
\ EXISTING REPLACED COVE LUMINAIRE

EXISTING FINISHED SOFFIT

CEILING -

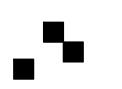


EXISTING REPLACED CHAIN MOUNTED LUMINAIRE



5 EXISTING REPLACED CONTINOUS LINEAR JOIST MOUNTED LUMINAIRE
SCALE: NONE

HMRARCHITECTS



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ELECTRICAL DETAILS

MARCH 20, 2025

DRAWN BY:
GW
CHECKED BY:
KD
JOB NO. 24035

E5.1

Indoor Lighting					CALIFORNIA ENE	RGY COMM
CERTIFICATE OF COMPLIANCE					CALII OMVIA LIVE	NR
This document is used to demonstrate compliance wit						
nonresidential and hotel/motel occupancies. It is also path for multifamily occupancies. Multifamily include.			ments in 160.5, 170	2(e) and 180.2(b)4 for i	ndoor lighting scopes usin	g the presc
Project Name: Solano CC Building 1800B Lighting Upgra			ort Page:			(Pag
Project Address:			e Prepared:		2025-0	3-06T14:40:
		•				
A. GENERAL INFORMATION						
01 Project Location (city) Fairfield			04 Total Condition	ed Floor Area (ft²)	21,001	
02 Climate Zone 12	•			oned Floor Area (ft²)	0	
03 Occupancy Types Within Project (select all that ap	pply):		8 0 8	bitable Above Grade)	2	
			oo in or otories (inc	Ditable Hoove Grade,		
Classroom						
B. PROJECT SCOPE						
This table includes any lighting systems that are withi	n the scope of the perr	mit application and a	re demonstrating coi	mpliance using the pres	criptive path outlined in 1	40.6 / 170.
141.0(b)2 / 180.2(b)4 for alterations.						
Scope of Work			Conditioned Space		Unconditioned:	
01			02	03	04	
My Project Consists of (check all that	apply):		on Method	Area (ft²)	Calculation Method	Area
New Lighting System			N/A	0	N/A	
New Lighting System - Parking Garage			N/A uilding Method	0	N/A	
		Complete B	uliding iviethod	21001	N/A	
Total Area of Work (ft ²)			21001			
Total Area of Work (ft ²)			21001			
Total Area of Work (ft²) CA Building Energy Efficiency Standards - 2022 Nonresider	itial Compliance	Generated Da Report Versio			Documentation Softwar	
	tial Compliance	Report Versio	ate/Time:			278912-032
CA Building Energy Efficiency Standards - 2022 Nonresider	tial Compliance	Report Versio	ate/Time: on: 2022.0.000		Compliance ID:	278912-03
CA Building Energy Efficiency Standards - 2022 Nonresider	tial Compliance	Report Versio	ate/Time: on: 2022.0.000		Compliance ID: Report Generated: 2	278912-03. 025-03-06 1
CA Building Energy Efficiency Standards - 2022 Nonresider STATE OF CALIFORNIA Indoor Lighting	tial Compliance	Report Versio	ate/Time: on: 2022.0.000		Compliance ID:	278912-03: 025-03-06 1
CA Building Energy Efficiency Standards - 2022 Nonresider STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE	*	Report Versic Schema Versi	ate/Time: on: 2022.0.000 ion: rev 20220101		Compliance ID: Report Generated: 2	278912-03 025-03-06 2 ERGY COM
CA Building Energy Efficiency Standards - 2022 Nonresider STATE OF CALIFORNIA Indoor Lighting	*	Report Versic Schema Versi	ate/Time: on: 2022.0.000 ion: rev 20220101		Compliance ID: Report Generated: 2 CALIFORNIA ENE	278912-03 025-03-06 ERGY COM N
CA Building Energy Efficiency Standards - 2022 Nonresider STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE	*	Report Versic Schema Versi	ate/Time: on: 2022.0.000 ion: rev 20220101		Compliance ID: Report Generated: 2 CALIFORNIA ENE	278912-03 025-03-06 ERGY COM
CA Building Energy Efficiency Standards - 2022 Nonresider STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE	*	Report Versic Schema Versi	ate/Time: on: 2022.0.000 ion: rev 20220101		Compliance ID: Report Generated: 2 CALIFORNIA ENE	278912-03 025-03-06 ERGY COM

This section does not apply to this project.

Building Level Controls

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Mandatory Demand Response 110.12(c)

Required >= 4,000W subject to multilevel

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

E. ADDITIONAL REMARKS								
This table includes remarks m	nade by the permit applicant to the	Authority Having	Jurisdiction.					
			Generated Da	ate/Time:		D	ocumentation	Softwa
CA Building Energy Efficiency St	andards - 2022 Nonresidential Complia	ince	•	n: 2022.0.000			Complia	
			Schema Versi	on: rev 20220101			Report Gener	rated: 2
Indoor Lighting CERTIFICATE OF COMPLIANCE Project Name: Solano CC Bu	ilding 1800B Lighting Upgrades		Rep	ort Page:			CALIFORN	IIA EN
	0 0 .0							
			Date	e Prepared:				2025-C
	NTROLS (Not including PAFs)		Date	e Prepared:				2025-0
Area Level Controls		06	<u>'</u>		l na	10		2025-0
	O5 Complete Building or Area Category Primary Function Area	06 Manual Area Controls 130.1(a) /	07 Multi-Level Controls 130.1(b) /	08 Shut-Off Controls 130.1(c) // 160.5(b)4C	09 Primary/Sky lit Daylighting 130.1(d) /	Daylighting 130.1(d) /	11 Interlocked Systems 140.6(a)1/	
Area Level Controls 04	05 Complete Building or Area Category Primary Function	Manual Area Controls	07 Multi-Level Controls	08 Shut-Off Controls 130.1(c) //	Primary/Sky lit Daylighting	Secondary Daylighting	11 Interlocked Systems	2025-0 F

Report Page:

06 07

08

STATE OF CALIFORNIA

Indoor Lighting

CERTIFICATE OF COMPLIANCE

C. COMPLIANCE RESULTS

conditioned and unconditioned

spaces must not be

compliance per

140.6(b)1 / 170.2(e)

Conditioned Unconditioned

D. EXCEPTIONAL CONDITIONS

Electrical/Mechanical Rooms

Custodian/Janitor, Tool,

Instrument, Storage Rooms

IT Room

Offices

Welding Bays

Corridors

Classrooms 1860, 1861, 1871,

1876, 1878, 1879, 1881

Field Inspector

Pass Fail

Documentation Software: Energy Code Ace

Compliance ID: 278912-0325-0002

Report Generated: 2025-03-06 11:40:18

Shut-off controls 130.1(c) / 160.5(b)4C

Whole Building Auto Time Switch

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

combined for

Project Name: Solano CC Building 1800B Lighting Upgrades

Complete

140.6(c)1

13,073.4

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

Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)

Category

Building 140.6(c)2 / Additional 140.6(c)3 / 140.6(c)2 / 140.6(c)2G / 170.2(e)4B

170.2(e)4 170.2(e)4Av

(See Table I) (See Table I) (See Table J) (See Table K)

School or Classroom

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Area

			1 /	djustments						1 AV 1 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1				I		Evaluded nor			spector
Tailored .40.6(c)3 /	_ Total		Total Co	PAF Lighting ontrol Credits	Total Adj		05 must be >	·= 08	Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field In Pass	Fail
.70.2(e)4B (+)	Allowed (Watts)		(Watts)	140.6(a)2 / 170.2(e)1B	*Inclu	des	140.6 / 170.		A1	2'x4' Retrofit LED Luminair		NA	28.5	Mfr. Spec	153	No	4,360.5		
,	(vvatts)			(-)	Adjustm	ents		72030	A2	2'x4' Retrofit LED Luminairo		NA	28.5	Mfr. Spec	5	No	142.5		
ee Table K)		(Se	See Table F) (See Table P)					B1	1'x4' Retrofit LED Luminair	e No	NA	18.8	Mfr. Spec	9	No	169.2		
	= 13,073.4		11,106.8	,	= 11106	5.8	COMPLIES	s	C1	4ft T8 Bypass LED Relamp	No	NA	12	Mfr. Spec	13	No	156		
	=	2			=				D1	6" Round LED Downlight	No	NA	11.9	Mfr. Spec	25	No	297.5		
			Controls	Compliance (S	ee Table H fo	r Details)	COMPLIES	S	D2	6" Round LED Downlight	No	NA	11.9	Mfr. Spec	7	No	83.3		
	Da	tod Dowe	ver Reduction (A STORES HAVE A SECURED AND A SECURED AS A S	S The Street Control of the Street Control o	COIVII EIE.		E1	1'x4 LED Luminaire	No	NA	21.4	Mfr. Spec	28	No	599.2		
	No.	iteu rowe	ver Reduction	compliance (3	ee lable Q lo	Details)			F1	4ft Narrow Linear LED Strip	No	NA	19.7	Mfr. Spec	6	No	118.2		
									F2	4ft Narrow Linear LED Strip		NA	33	Mfr. Spec	2	No	66		
								3	G1	4ft Industrial Linear LED Str		NA	37.6	Mfr. Spec	23	No	864.8		
ons made or	r data entered in	tables th	hroughout the	form				3	H3	3ft LED Cove Light		NA NA	10.2	Mfr. Spec	11	No	112.2		
13 THUUE OF	data enterea m	tubies til	oughout the	jorni.							No			<u> </u>	 	+			
									H6	6ft LED Cove Light	No	NA	20.4	Mfr. Spec	9	No	183.6		
									H9	9ft LED Cove Light	No	NA	30.6	Mfr. Spec	3	No	91.8		
arity Havino	g Jurisdiction.								J1	LED Wall Sconce	No	NA	22	Mfr. Spec	3	No	66		
	<i>y</i>								L16	16ft Continous Linear LED	No	NA	116.8	Mfr. Spec	4	No	467.2		
									L36	36ft Continous Linear LED	No	NA	262.8	Mfr. Spec	4	No	1,051.2		
									L52	52ft Continous Linear LED	No	NA	379.6	Mfr. Spec	6	No	2,277.6	100	
														Total Design	ed Watts: CON	DITIONED SPACES	11,106.8		
	Generated D Report Version Schema Vers	on: 2022.0.	0.000		D	Complian	oftware: Energy nce ID: 278912-0 ited: 2025-03-06	325-0002	CA Building End	ergy Efficiency Standards - 2022	Nonresidential Cor	npliance	Repor	rated Date/Time: t Version: 2022.0.00 na Version: rev 2022(Documentation So Complian Report Generat	ce ID: 278912	-0325-00
						CALIFORNI	A ENERGY CON	MMISSION NRCC-LTI-E	STATE OF CALIFOR Indoor Lig	hting							CALIFORNIA	A ENERGY C	
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	ln							F - f O	Duntant Manager		nting Lingrades			Report Page:					(Page 6 c
		ort Page: e Prepared				2	(P :025-03-06T14:4	Page 5 of 9) 0:14-05:00	Project Name:	Solano CC Building 1800B Lig	типу оругичес			Date Prepared:			20	025-03-06T14	:40:14-05
06				09	10	11			I. LIGHTING F Each area com 140.6(c) or adj	POWER ALLOWANCE: CON oplying using the Complete Bo iustments per 140.6(a) are bo	MPLETE BUILDIN uilding or Area Co			THODS	s table. Column	06 indicates if addi			
06 nual Area	Dat	e Prepared	ed: 08	Primary/Sky	Secondary	11	025-03-06T14:4 12	0:14-05:00	I. LIGHTING F	POWER ALLOWANCE: CON oplying using the Complete Bo iustments per 140.6(a) are bo	MPLETE BUILDIN uilding or Area Co	tegory Method		THODS are included in this				ver allowand	
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nual Area ontrols 0.1(a) /	07 Multi-Level Controls	Shut-0	08 t-Off Controls .30.1(c) //	Primary/Sky lit Daylighting	Secondary Daylighting	11 Interlocked Systems 140.6(a)1/	12 Field Inspe	0:14-05:00 ector	I. LIGHTING F Each area com 140.6(c) or adj Conditioned S	POWER ALLOWANCE: CON aplying using the Complete Bo iustments per 140.6(a) are bo paces	MPLETE BUILDIN uilding or Area Ca eing used . omplete Building	tegory Method 02	s per 140.6(b)	THODS are included in this		05	tional lighting pow	ver allowand 06 llowance / A	es per
nual Area ontrols 0.1(a) / 0.5(b)4A	07 Multi-Level Controls 130.1(b) /	Shut-0	08 t-Off Controls .30.1(c) //	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	11 Interlocked Systems 140.6(a)1/	12 Field Inspe	0:14-05:00 ector	I. LIGHTING F Each area com 140.6(c) or adj Conditioned S	POWER ALLOWANCE: CON plying using the Complete Be iustments per 140.6(a) are be paces 01	MPLETE BUILDIN uilding or Area Ca ving used . omplete Building Fun	02 or Area Categor	s per 140.6(b)	THODS are included in this 03 Allowed Density	04	05 Allowed Wattage	tional lighting pow	ver allowand 06 llowance / A	es per djustme
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STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

2025-03-06T14:40:14-05:00

Compliance Results

(Page 2 of 9)

Indoor Lighting

CERTIFICATE OF COMPLIANCE

Project Name: Solano CC Building 1800B Lighting Upgrades

02

F. INDOOR LIGHTING FIXTURE SCHEDULE

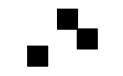
Report Page:

This table includes all planned permanent and portable lighting other than dwelling unit/hotel/motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is

documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are

Date Prepared:

HMRARCHITECTS



CALIFORNIA ENERGY COMMISSION

2025-03-06T14:40:14-05:00

(Page 3 of 9)

Sacramento, CA 95818 T 916 736 2724







BUILDING 1800B

LIGHTING **UPGRADES** BID ALT #2

SOLANO COMMUNITY COLLEGE

4000 SUISUN VALLEY RD. FAIRFIELD, CA 94534

REVISIONS

NO. DESCRIPTION

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL & UNPUBLISHED WORK OF HMR ARCHITECTS AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF HMR ARCHITECTS

> TITLE 24 INDOOR LIGHTING COMPLIANCE FORMS

> > MARCH 20, 2025

CHECKED BY:
KD
JOB NO.
24035

E6.1

STATE OF CALIFORNIA		
STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSIO
CERTIFICATE OF COMPLIANCE		NRCC-LTI-
Project Name: Solano CC Building 1800B Lighting Upgrades	Report Page:	(Page 7 of 9
	Date Prepared:	2025-03-06T14:40:14-05:00
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK	/ LIGHTING	
This section does not apply to this project.	CLIGHTING	
This section does not upply to this project.		
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPE	ECIAL EFFECTS	
This section does not apply to this project.		
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE I	MERCHANDISE	
This section does not apply to this project.		
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJU	STMENT FACTOR (PAF))	
This section does not apply to this project.		
Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALT	ERATIONS	
This section does not apply to this project.		
R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEP	TIONS	
This section does not apply to this project.		
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)		
This section does not apply to this project.		
T. DWELLING UNIT LIGHTING		
This section does not apply to this project.		
	Generated Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: 278912-0325-0002

CERTIFICATE OF C		T	NRCC-LTI
Project Name:	Solano CC Building 1800B Lighting Upgrades	Report Page:	(Page 8 of
		Date Prepared:	2025-03-06T14:40:14-05
U. DECLARATI	ION OF REQUIRED CERTIFICATES OF INSTALLATION		
		nt. If any selections have been changed by permit applicant,	an explanation should be included in Table E.
Additional Rem	narks. These documents must be provided to the building ins	spector during construction and can be found online	
		Form/Title	
NRCI-LTI-E - Mu	ust be submitted for all buildings		
V. DECLARATION	ON OF REQUIRED CERTIFICATES OF ACCEPTANCE		
		nt. If any selections have been changed by the permit applic	ant, an explanation should be included in Table
Additional Rem	arks. These documents must be provided to the building ins	spector during construction and any with "-A" in the form no	
Test Technician	Certification Provider (ATTCP). For more information visit: I	http://www.energy.ca.gov/title24/attcp/providers.html	T-
	Fo	rm/Title	Systems/Spaces To Be Fie Verified
NRCA-ITI-02-A	- Must be submitted for occupancy sensors and automatic	time switch controls	Classrooms:
INNCA-LIT-02-A	- Must be submitted for occupancy sensors and automatic	unie switch controls.	Electrical/Mechanical Room
			Custodian/Janitor, Tool,
			Instrument, Storage Rooms
			IT Room; Offices; Welding
			Bays; Corridors; Classroom
			1860, 1861, 1871, 1876,
			1878, 1879, 1881
NRCA-LTI-03-A	- Must be submitted for automatic daylight controls.		Classrooms 1860, 1861, 18
NDCA ITI OA A	- Must be submitted for demand responsive lighting contro	No.	1876, 1878, 1879, 1881 Classrooms;
INRCA-LI I-04-A	- Must be submitted for demand responsive lighting contro	115.	
			Electrical/Mechanical Roo
			Custodian/Janitor, Tool,
			Instrument, Storage Room
			IT Room; Offices; Welding
			Bays; Corridors; Classroom
			1860, 1861, 1871, 1876,
			1878, 1879, 1881
		Generated Date/Time:	Documentation Software: Energy Code A

CERTIFICATE OF C	COMPLIANCE	NRCC-LTI-E	
Project Name:	Solano CC Building 1800B Lighting Upgrades	Report Page:	(Page 9 of 9
Project Address:		Date Prepared:	2025-03-06T14:40:14-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I certify that this Certificate of Compliance documentation	nis Certificate of Compliance documentation is accurate and complete.		
Documentation Author Name: Nathan Baer	Documentation Author Signature:		
Company: Whittington Electric, Inc.	Signature Date: 3/20/2025		
Address: 1940 Industrial Dr	CEA/ HERS Certification Identification (if applicable):		
City/State/Zip: Auburn CA 95603	Phone: 530-823-3055		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

CALIFORNIA ENERGY COMMISSION

Compliance ID: 278912-0325-0002

Report Generated: 2025-03-06 11:40:18

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

Responsible Designer Name: Nathan Baer	Responsible Designer Signature:
Company: Whittington Electric, Inc.	Date Signed: 3/20/2025
Address: 1940 Industrial Dr	License: E21078
City/State/Zip: Auburn, CA 95603	Phone: 530-823-3055

Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 278912-0325-0002

Schema Version: rev 20220101

|Indoor Lighting Mandatory Measures:

110.9 LIGHTING CONTROLS AND COMPONENTS

ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 110.9.

110.12(c) DEMAND RESPONSIVE LIGHTING CONTROLS

BUILDINGS WITH NONRESIDENTIAL LIGHTING SYSTEMS HAVING A TOTAL INSTALLED LIGHTING POWER OF 4,000 WATTS OR GREATER THAT IS SUBJECT TO THE

- REQUIREMENTS OF SECTION 130.1(B):
- 1. LIGHTING CONTROLS SHALL DEMONSTRATE A 15 PERCENT OR GREATER REDUCTION IN LIGHTING POWER AS DESCRIBED IN NA7.6.3.
- 2. FOR BUILDINGS WHERE DEMAND RESPONSE CONTROLS ARE REQUIRED, DEMAND RESPONSIVE CONTROLS SHALL CONTROL THE GENERAL LIGHTING THAT IS
- SUBJECT TO THE REQUIREMENTS OF SECTION 130.1(B) AND MAY CONTROL ADDITIONAL LIGHTING. 3. GENERAL LIGHTING SHALL BE REDUCED IN A MANNER CONSISTENT WITH THE UNIFORM LEVEL OF ILLUMINATION REQUIREMENTS IN TABLE 130.1-A.

NOTE: THE EXCEPTED SPACES DO NOT COUNT TOWARDS THE 10,000 FT2 THRESHOLD.

130.0 GENERAL LUMINAIRE REQUIREMENTS

ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c). ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(e).

130.1(a) MANUAL AREA CONTROLS

EACH ROOM OR AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL HAVE LIGHTING CONTROLS THAT ALLOW LIGHTING TO BE MANUALLY TURNED ON AND OFF MANUAL CONTROLS SHALL:

1. BE READILY ACCESSIBLE 2. BE LOCATED IN THE SAME ENCLOSED AREA WITH THE LIGHTING IT CONTROLS.

B. PROVIDE SEPARATE CONTROL OF GENERAL, FLOOR, WALL, WINDOW CASE DISPLAY, ORNAMENTAL AND SPECIAL EFFECTS LIGHTING SO EACH TYPE CAN BE TURNED

ON AND OFF SEPARATELY WITHOUT AFFECTING OTHER LIGHTING OR EQUIPMENT.

130.1(b) MULTILEVEL LIGHTING CONTROLS GENERAL LIGHTING IN ALL ROOMS AND AREAS 100 FT2 OR GREATER AND WITH MORE THAN 0.5 WATTS PER FT2 OF LIGHTING LOAD SHALL HAVE MULTILEVEL

CONTROLS THAT ALLOW LIGHT LEVELS TO BE ADJUSTED UP AND DOWN. CONTROLS SHALL PROVIDE NUMBER OF CONTROL STEPS AND UNIFORM ILLUMINANCE LIGHT LEVELS PER TABLE 130.1-A.

130.1(c): SHUTOFF CONTROLS

ALL INSTALLED INDOOR LIGHTING SHALL BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY REDUCE LIGHTING POWER WHEN SPACE IS TYPICALLY UNOCCUPIED.

130.1(c)1: CONTROL REQUIREMENTS ALL INSTALLED INDOOR LIGHTING SHALL HAVE ALL OF THE FOLLOWING:

A. CONTROL(S) CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL LIGHTING IN THE SPACE WHEN TYPICALLY UNOCCUPIED (OCCUPANT SENSING CONTROL, AUTOMATIC TIME-SWITCH CONTROL, OR OTHER)

B. SEPARATE CONTROLS FOR LIGHTING ON EACH FLOOR (OTHER THAN STAIRWELLS)

C. SEPARATE CONTROLS FOR A SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS NOT EXCEEDING 5,000 FT2 130.1(c)2: COUNTDOWN TIMER SWITCHES

COUNTDOWN TIMER SWITCHES ONLY ALLOWED TO MEET SHUT-OFF REQUIREMENTS IN CLOSETS <70 FT2 AND SERVER AISLES IN SERVER ROOMS. MAXIMUM TIMER SETTINGS: 10 MINUTES FOR CLOSETS, 30 MINUTES FOR SERVER AISLES

Indoor Lighting Mandatory Measures:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

130.1(c)6 PARTIAL OR FULL-OFF OCCUPANT SENSORS

PROVIDE PARTIAL OR FULL-OFF OCCUPANT SENSORS, IN ADDITION TO SHUTOFF CONTROLS PER 130.1(c)1 AND 130.1(c)2, IN THE FOLLOWING SPACES:

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• AISLE WAYS AND OPEN AREAS IN WAREHOUSES

STATE OF CALIFORNIA **Indoor Lighting**

- LIBRARY BOOK STACK AISLES
- CORRIDORS AND STAIRWELLS OFFICES GREATER THAN 250 SQ. FT.

130.1(d) AUTOMATIC DAYLIGHTING CONTROLS

ALL GENERAL LIGHTING IN THE FOLLOWING ZONES SHALL HAVE CONTROLS THAT AUTOMATICALLY ADJUST THE INSTALLED LIGHTING POWER UP AND DOWN TO KEEP TOTAL LIGHT LEVEL STABLE AS INCOMING DAYLIGHT CHANGES:

- PRIMARY SIDELIT DAYLIT ZONES
- SECONDARY SIDELIT DAYLIT ZONES
- COMBINED PRIMARY AND SECONDARY SIDELIT DAYLIT ZONES IN PARKING GARAGES ALL DAYLIT ZONES MUST BE SHOWN ON PLANS.

NOTE: PARKING AREAS ON THE ROOF OF A PARKING STRUCTURE ARE NOT SKYLIT DAYLIT AREAS.

N ADDITION, AUTOMATIC DAYLIGHTING CONTROLS SHALL PROVIDE SEPARATE CONTROL FOR LUMINAIRES IN EACH TYPE OF DAYLIT ZONE. LUMINAIRES THAT FALL IN BOTH SKYLIT AND SIDELIT DAYLIT ZONE SHALL BE CONTROLLED AS PART OF THE SKYLIT ZONE.

130.1(d)3 THE AUTOMATIC DAYLIGHTING CONTROLS SHALL ACHIEVE ALL OF THE FOLLOWING:

A. ADJUST LIGHTING VIA CONTINUOUS DIMMING OR THE NUMBER OF CONTROL STEPS PROVIDED BY THE MULTILEVEL CONTROLS (FOR SPACES REQUIRED TO INSTALL MULTILEVEL CONTROLS UNDER SECTION 130.1(b)).

B. FOR EACH SPACE, ENSURE COMBINED ILLUMINANCE FROM CONTROLLED LIGHTING AND DAYLIGHT IS NOT LESS THAN ILLUMINANCE FROM CONTROLLED LIGHTING WHEN NO DAYLIGHT IS AVAILABLE.

C. ENSURE THAT THE GENERAL LIGHTING POWER IN A DAYLIT ZONE SHALL BE REDUCED BY AT LEAST 90% WHEN DAYLIGHT ILLUMINANCE IN THAT ZONE IS GREATER THAN 150% OF DESIGN ILLUMINANCE RECEIVED FROM THE GENERAL LIGHTING SYSTEM AT FULL POWER (NOT APPLICABLE TO PARKING GARAGES).

D. (FOR PARKING GARAGES ONLY) ENSURE THAT WHEN ILLUMINANCE LEVELS MEASURED AT THE FARTHEST EDGE OF THE SECONDARY SIDELIT ZONE AWAY FROM GLAZING OR OPENING ARE GREATER THAN 150% OF THE ILLUMINANCE PROVIDED BY THE CONTROLLED LIGHTING WHEN NO DAYLIGHT IS AVAILABLE, THE CONTROLLED LIGHTING POWER IN THE COMBINED PRIMARY AND SECONDARY SIDELIT DAYLIT ZONES SHALL BE REDUCED BY 100%. 130.1(d)4 WHEN PHOTOSENSORS ARE LOCATED WITHIN THE DAYLIT ZONE, AT LEAST ONE PHOTOSENSOR SHALL BE LOCATED SO THAT IT IS NOT READILY ACCESSIBLE

TO UNAUTHORIZED PERSONNEL. 130.1(d)5 THE LOCATION WHERE CALIBRATION ADJUSTMENTS ARE MADE TO AUTOMATIC DAYLIGHTING CONTROLS SHALL BE READILY ACCESSIBLE TO AUTHORIZED PERSONNEL BUT MAY BE INSIDE A LOCKED CASE OR UNDER A COVER THAT REQUIRES A TOOL FOR ACCESS.

|Indoor Lighting Mandatory Measures:

130.1(f) CONTROL INTERACTIONS

EACH LIGHTING CONTROL INSTALLED TO MEET 130.1 REQUIREMENTS SHALL INCORPORATE THE FUNCTIONS OF OTHER LIGHTING CONTROLS REQUIRED BY THIS

1. FOR GENERAL LIGHTING, MANUAL AREA CONTROL SHALL PERMIT THE LEVEL OF LIGHT PROVIDED WHILE LIGHTING IS ON TO BE SET OR ADJUSTED BY CONTROLS SPECIFIED IN 130.1(b), (c), (d) and (e).

2. MANUAL AREA CONTROL SHALL PERMIT SHUTOFF CONTROL TO TURN THE LIGHTING DOWN OR OFF.

3. MULTILEVEL CONTROL SHALL PERMIT THE AUTOMATIC DAYLIGHTING CONTROL TO ADJUST ELECTRIC LIGHTING IN RESPONSE TO DAYLIGHT.

4. MULTILEVEL CONTROL SHALL PERMIT THE DEMAND RESPONSIVE (DR) CONTROL TO ADJUST LIGHTING DURING A DR EVENT THEN RETURN IT TO THE LEVEL SET BY THE CONTROL AFTER THE EVENT.

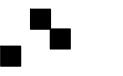
5 SHUTOFF CONTROL SHALL PERMIT THE MANUAL AREA CONTROL TO TURN THE LIGHTING ON.

6. AUTOMATIC DAYLIGHTING CONTROL SHALL PERMIT MULTILEVEL LIGHTING CONTROL TO ADJUST THE LIGHTING LEVEL

7. FOR LIGHTING CONTROLLED BY MULTILEVEL LIGHTING CONTROLS AND OCCUPANT SENSING CONTROLS THAT PROVIDE AUTOMATIC-ON FUNCTION, CONTROLS SHALL PROVIDE A PARTIAL-ON FUNCTION THAT IS CAPABLE OF AUTOMATICALLY ACTIVATING BETWEEN 50-70% OF CONTROLLED LIGHTING POWER. 8. RESERVED

9. FOR SPACE CONDITIONING SYSTEM ZONES SERVING ONLY SPACES THAT ARE REQUIRED TO HAVE OCCUPANT SENSING CONTROLS SHALL BE CONTROLLED BY OCCUPANCY SENSING CONTROLS.

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> TITLE 24 INDOOR LIGHTING COMPLIANCE FORMS

> > MARCH 20, 2025

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