CENTRAL UTILITY PLANT

ATS AND ELECTRICAL REPAIRS

625 Q STREET
SACRAMENTO, CA 95814

PERMIT SET

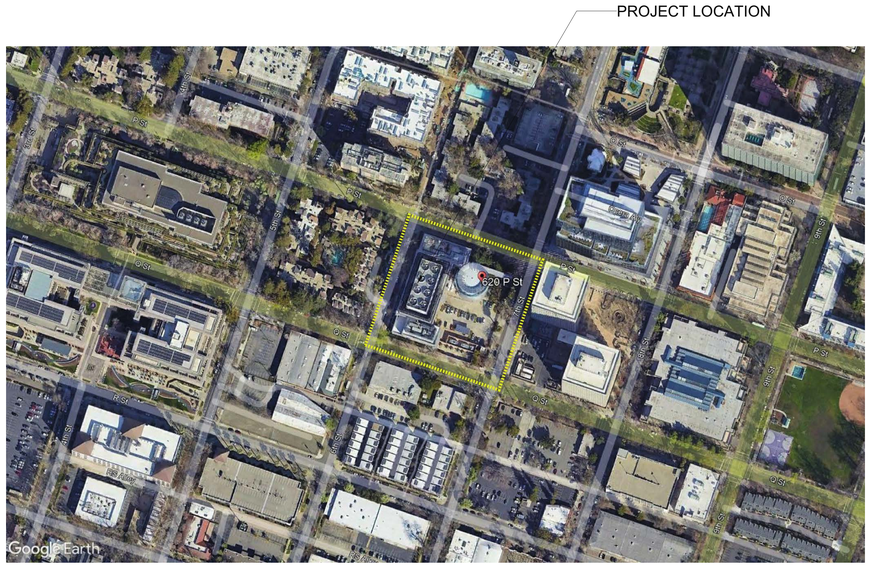
JANUARY 27, 2025

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APPROVED FIRE AND PANIC ONLY
08/23/25
25-0655
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VICINITY MAP



LOCATION MAP



PROJECT DESCRIPTION

THE ATS AND ELECTRICAL REPAIR PROJECT AT THE CENTRAL UTILITY PLANT, BUILDING 095, INCLUDES THE ELECTRICAL SYSTEM DESIGN AND REPAIR OF FAILED SWITCHGEAR AND ASSOCIATED EQUIPMENT.

BUILDING DATA

LEGAL DESCRIPTION:

625 Q STREET
SACRAMENTO, CA 95814

APN:
COUNTY: SACRAMENTO
CONSTRUCTION: TYPE I-A
OCCUPANCY: U

BUILDING HEIGHT: 105' - 8"
BUILDING AREA CALCULATIONS:75,656 SQFT

TOTAL AREA OF WORK: 75,656 SQFT

YEAR OF CONSTRUCTION: 2010

ARCHITECTURAL

Dewberry Architects, Inc.

301 N Lake Ave
Suite 320
Pasadenaa, CA 91101

916.239.7252

ELECTRICAL

ECOM Engineering

1455 Response Road
Suite 140
Sacramento, CA 95815

916- 641-5600

LICENSED ARCHITECT
PATRICIA N ESPOSITO
C-25246
05/ 31/ 2025
RENEWAL DATE
STATE OF CALIFORNIA

ARCHITECT OF RECORD

REGISTERED PROFESSIONAL ENGINEER
BENJAMIN SCHLENKER
No. E 021982
Exp. 9/30/25
ELECTRICAL
STATE OF CALIFORNIA

ELECTRICAL
01/27/2025

Dewberry

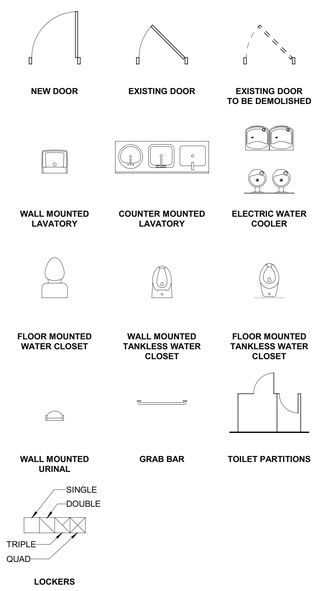
GOVmotus Application No.: **25-N-0655-C-NM**
OSFM Application No.:

ISSUE DATE: AUGUST 22, 2025 V2

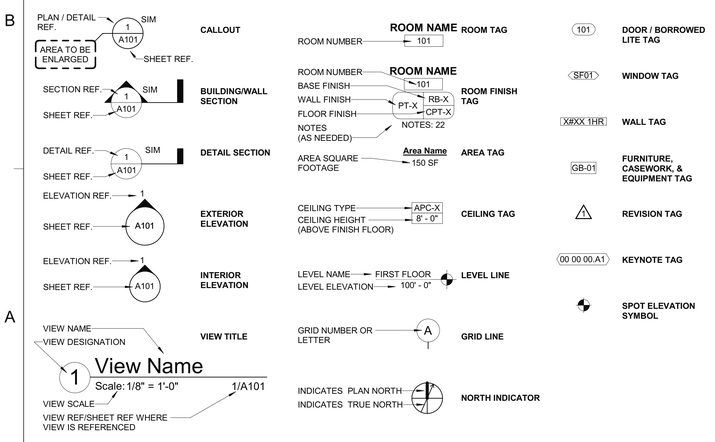
STANDARD ABBREVIATIONS

AB	ANCHOR BOLT	FLR	FLOOR	PTR	PAPER TOWEL RECEPTACLE
ACST	ACOUSTIC(AL)	FRP	FIBER REINFORCED PLASTIC	PVC	POLYVINYL CHLORIDE
ADDL	ADDITIONAL	FTG	FOOTING	PVG	PAVING
ADDN	ADDITION	FURG C	FURRING CHANNEL		
ADH	ADHESIVE	FURN	FURNACE	R	RISER, RADIUS, THERMAL
ADJ	ADJACENT, ADJOINING, ADJUSTABLE	FWC	FABRIC WALLCOVERING		RESISTANCE (R-VALUE)
				RB	RESILIENT BASE
AED	AUTOMATED EXTERNAL DEFIBRILLATOR	GA	GAGE, GAUGE	RCP	REFLECTED CEILING PLAN
		GALV	GALVANIZED	RD	ROOF DRAIN, ROAD
AFF	ABOVE FINISH FLOOR	GB	GRAB BAR	REF	REFERENCE, REFRIGERATOR
ALT	ALTERNATE	GFRC	GLASS-FIBER REINFORCED	REINF	REINFORCE
ALUM	ALUMINUM		CONCRETE	REQD	REQUIRED
ANCH	ANCHOR	GL	GLASS	RF	RESILIENT FLOORING
ANOD	ANODIZE(D)	GL BLK	GLASS BLOCK	RFG	ROOFING
AP	ACCESS PANEL	GLZ CMU	GLAZED CONCRETE MASONRY UNIT	RFM	REMOVABLE FLOOR MAT
APC	ACOUSTICAL PANEL CEILING	GRFG	GLASS-FIBER REINFORCED GYPSUM	RH	RIGHT HAND
APPROX	APPROXIMATE	GT	GROUT	RO	ROUGH OPENING
ASPH	ASPHALT	GWH	GAS FIRED WATER HEATER	RSF	RESINOUS FLOORING
AUTO	AUTOMATIC	GYP BD	GYPSUM WALL BOARD	RST	REINFORCING STEEL
AVE	AVERAGE			RTF	RESILIENT TILE FLOORING
AWT	ACOUSTICAL WALL TREATMENT	H	HIGH, HATCH (ROOF)	RV	ROOF VENT, ROOF VENTILATOR
		HB	HOSE BIB		
BAL SHT	BALANCE SHEET	HDNR	HARDENER	SC	SEALED CONCRETE
BC	BRICK COLOR	HDW	HARDWARE	SCHED	SCHEDULE
BCS	BABY CHANGING STATION	HDWD	HARDWOOD	SCR	SHOWER CURTAIN ROD
BD	BOARD	HM	HOLLOW METAL	SCWD	SOLID CORE WOOD DOOR
BG	BUMPER GUARD	HORIZ	HORIZONTAL	SD	SOAD DISPENSER
BITUM	BITUMINOUS	HR	HANDRAIL	SECT	SECTION
BLDG	BUILDING	HT	HEIGHT	SF	STOREFRONT
BLKG	BLOCKING (WOOD)	HTG	HEATING	SH	SHINGLES, SINGLE HUNG (WINDOW)
BOT	BOTTOM	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	SHT	SHEET
BRDG	BRIDGING			SHTHG	SHEATHING
BRG	BEARING			SHV	SHELVING
BRK.PV	BRICK PAVERS	ID	INSIDE DIAMETER, INSIDE	SLNT	SEALANT
BRKT	BRACKET		DIMENSION	SND	SANITARY NAPKIN DISPENSER
BSMT	BASEMENT	IF	INSIDE FACE	SNDU	SANITARY NAPKIN DISPOSAL UNIT
BTWN	BETWEEN	INCL	INCLUDED	SOG	SLAB ON GRADE
BUR	BUILT UP ROOFING	INSUL	INSULATION	SPCG	SPACING
		INT	INTERIOR	SPEC	SPECIFICATION
CAB	CABINET	INV	INVERT	SPKR	SPEAKER
CB	CHALKBOARD			SQ	SQUARE
CC	CUBICLE CURTAIN	JT	JOINT	SS	SERVICE SINK , SOLID SURFACING
CCT	CUBICLE CURTAIN TRACK			SST	STAINLESS STEEL, SHOWER SEAT
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	KD	KNOCKED DOWN	STD	STANDARD
		KOP	KNOCK OUT PANEL	STL	STEEL
CFMF	COLD-FORMED METAL FRAMING			STL JST	STEEL JOIST
CG	CORNER GUARD	L	LONG, ANGLE	STL LNTL	STEEL LINTEL
CH	COAT HOOK	LAM	LAMINATE(D)	STL PL	STEEL PLATE
CIP CONC	CAST-IN-PLACE CONCRETE	LAV	LAVATORY	STL RF DK	STEEL ROOF DECK
CJ	CONTROL JOING, CONSTRUCTION JOINT	LH	LEFT HAND	STL TR	STEEL TRUSS
		LINO	LINOLEUM	STN	STAIN
CLG	CEILING	LKR	LOCKER	STRUCT	STRUCTURAL
CLR	CLEAR	LL	LIVE LOAD, LOW LEVEL	SUSP	SUSPEND
CMU	CONCRETE MASONRY UNIT	LLH	LONG LEG HORIZONTAL	SV	SHEET VINYL
CNTR	COUNTER	LLV	LONG LEG VERTICAL	SWP	SHEET WALL PROTECTION
CO	CLEAN OUT, CASED OPENING	LT	LIGHT	SYMM	SYMMETRICAL
COL	COLUMN	LVL	LEVEL	SYNTH	SYNTHETIC
COMB	COMBINATION, COMBINED	LVR	LOUVER		
COMP	COMPRESSIBLE			T	TILE, TREAD
COMPT	COMPARTMENT	MAS	MASONRY	T&G	TONGUE AND GROOVE
CONC	CONCRETE	MATL	MATERIAL	T/S	TUB/SHOWER
CONC CTG	CONCRETE COATING	MAX	MAXIMUM	TB	TOWEL BAR, TACKBOARD
COND	CONDITION	MB	MARKERBOARD	TC	TOILET COMPARTMENT
CONT	CONTINUOUS	MBH	MOB/BROOM HOLDER	TD	TRENCH DRAIN
CONTR	CONTRACTOR	MECH	MECHANICAL	TER	TERRAZZO
CORR	CORRIDOR	MED	MEDIUM	THK	THICK
CPRS	COMPRESSIBLE	MEZZ	MEZZANINE	TOB	TOP OF BEAM
CPT	CARPET	MFR	MANUFACTURER	TOC	TOP OF CONCRETE, TOP OF CURB
CR	CLOSET ROD	MH	MANHOLE	TOF	TOP OF FOOTING
CRL	CRASH RAIL	MI	MIRROR	TOM	TOP OF MASONRY
CRS	COLD-ROLLED STEEL	MIN	MINIMUM, MINUTE	TOS	TOP OF SLAB, TOP OF STEEL
CTR	CENTER(S)	MISC	MISCELLANEOUS	TOW	TOP OF WALL
CUH	CABINET UNIT HEATER	MO	MASONRY OPENING	TPH	TOILET PAPER HOLDER
CUV	CABINET UNIT VENTILATOR	MOD	MODEL, MODULE, MODULAR	TR	TOWEL RACK
CW	CURTAINWALL	MSB	MOP SERVICE BASIN	TS	TUBE STEEL, TRANSITION STRIP
		MT	MOUNT		
D	DEEP, DEPTH, PENNY NAIL	MTL	METAL	UNO	UNLESS NOTED OTHERWISE
DC	DISPLAY CASE				
DET	DETAIL	NDU	NEEDLE DISPOSAL UNIT	VCT	VINYL COMPOSITION TILE
DETN	DETENTION	NIC	NOT IN CONTRACT, NOISE ISOLATION	VERT	VERTICAL
DF	DRINKING FOUNTAIN		CLASS	VIF	VERIFY IN FIELD
DIA	DIAMETER	NO	NUMBER	VWC	VINYL WALL COVERING
DIM	DIMENSION	NOM	NOMINAL		
DN	DOWN	NTS	NOT TO SCALE	W	WIDE, WEST
DP	DECORATIVE PANEL			WC	WALL COVERING
DR	DOOR	OA	OVERALL	WD	WOOD, WOOD DOOR
DS	DOWNSPOUT	OC	ON CENTER	WDW	WINDOW
DWG	DRAWING(S)	OD	OUTSIDE DIAMETER, OUTSIDE DIMENSION	WP	WALL PATTERN, WATERPROOFING
				WT	WEIGHT, WINDOW TREATMENT
EHD	ELECTRIC HAND DRYER	OF	OUTSIDE FACE	WWF	WELDED WIRE FABRIC
EJ	EXPANSION JOINT	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED		
EL	ELEVATION				
ELEC	ELECTRIC, ELECTRICAL	OFD	OVERFLOW DRAIN		
ELEV	ELEVATOR	OFOI	OWNER FURNISHED OWNER INSTALLED		
EMBED	EMBEDMENT				
EMER	EMERGENCY	OH	OVERHEAD		
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	OH DR	OVERHEAD DOOR		
		OP	OPERABLE PARTITION		
EQ	EQUAL	OPH	OPPOSITE HAND		
EQUIP	EQUIPMENT	OPNG	OPENING		
ES	EXPOSED STRUCTURE	OPP	OPPOSITE		
ETR	EXISTING TO REMAIN	OS	OVERFLOW SCUPPER		
EW	EACH WAY				
EWC	ELECTRIC WATER COOLER	PC	PORTLAND CEMENT, POINT OF CURVE, POLYCARBONATE		
EWH	ELECTRIC WATER HEATER				
EXIST	EXISTING	PCC	PRECAST CONCRETE		
EXP	EXPANSION	PERIM	PERIMETER		
EXT	EXTERIOR	PJ	PROJECTOR		
		PL	PLATE, PLASTIC LAMINATE		
FAB	FABRIC	PLAS	PLASTER		
FD	FLOOR DRAIN	PLBG	PLUMBING		
FDTN	FOUNDATION	PLYWD	PLYWOOD		
FE	FIRE EXTINGUISHER	PS	PROJECTION SCREEN		
FEC	FIRE EXTINGUISHER CABINET	PSF	POUNDS PER SQUARE FOOT		
FF	FINISH FLOOR	PT	PAINT		
FHC	FIRE HOSE CABINET	PTD	PAPER TOWEL DISPENSER		
FIN	FINISH	PTDR	PAPER TOWEL DISPENSER & RECEPTACLE		
FLASH	FLASHING				
FLP	FLOOR PATTERN	PTN	PARTITION		

STANDARD DRAFTING SYMBOLS



STANDARD DETAILING SYMBOLS



APPLICABLE CODES & STANDARDS

2022 CALIFORNIA BUILDING CODE (CBC)
2022 CALIFORNIA EXISTING BUILDING CODE(CEBC)
2010 ADA STANDARDS / 2022 CALIFORNIA BUILDING CODE (CBC)
2022 CALIFORNIA PLUMBING CODE (CPC)
2022 CALIFORNIA FIRE CODE (CFC)
2022 CALIFORNIA MECHANICAL CODE (CMC)
2022 CALIFORNIA ELECTRICAL CODE (CEC)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)
2022 CALIFORNIA ENERGY CODE
2021 NFPA 101 LIFE SAFEY CODE

d information must be provided. If any item(s) are not

- [x] Building construction type * U
- [x] Number of stories * TYPE 1-A
- [x] Actual building height * 2
- [x] Building area in square feet * 75,656 SF
- [x] Area of project in square feet * 75,656 SF
- [x] Separated, non-separated, accessory use * NA
- [x] Allowable area * NA
- [x] Area increase * NA
- [x] Height increase * NA
- [x] Fire Sprinklers (Type, Full, Partial) * NA
- [x] Fire Alarm (Type) * NA
- [x] Other Fire Protection System (Type) * FULL
- [x] Smoke Control System (Y/N) * NA
- [x] Occupant load for entire building * NA
- [x] Occupant load for each floor * NA
- [x] Year building was constructed *
- [x] High Fire Hazard Severity Zone (Y/N) * N
- [x] Seismic Joints and locations (Y/N) * NA
- [x] Emergency Responder Radio Coverage (Y/N) * NA
- [X] Identify occupancy groups/uses on floor plans
- [X] Identify adjacent buildings on the site
- [ ] Identify fire separation distances
- [ ] Identify building allowable area increases
- [ ] Justify frontage allowances
- [ ] Classification of roof covering

SHEET INDEX

SHEET NO.	SHEET NAME
GENERAL	
G000	COVER SHEET
G-001	INDEX
ARCHITECTURAL	
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A-111	FIRST FLOOR ANNOTATON PLAN
A-121	SECOND FLOOR ANNOTATION PLAN
ELECTRICAL	
E0.00	SYMBOLS LIST, NOTES, & SHEET INDEX
E0.01	LUMINARIE SCHEDULE & LIGHTING NOTES
E0.02	TITLE 24 COMPLIANCE FORMS
E0.03	TITLE 24 COMPLIANCE FORMS
E0.04	TITLE 24 COMPLIANCE FORMS
E1.00	OVERALL FLOOR PLAN - LEVEL 01 & 02
E1.11	LEVEL 01 AREA A RCP PLAN - DEMO LIGHTING
E1.12	LEVEL 01 AREA B RCP PLAN - DEMO LIGHTING
E1.21	LEVEL 02 AREA A RCP PLAN - DEMO LIGHTING
E1.22	LEVEL 02 AREA B RCP PLAN - DEMO LIGHTING
E2.11	LEVEL 01 AREA A RCP PLAN - LIGHTING
E2.12	LEVEL 01 AREA B RCP PLAN - LIGHTING
E2.21	LEVEL 02 AREA A RCP PLAN - LIGHTING
E2.22	LEVEL 02 AREA B RCP PLAN - LIGHTING
E3.12	LEVEL 01 AREA B FLOOR PLAN - DEMO/NEW POWER
E5.00	PARTIAL ONE-LINE DIAGRAM
E5.01	ONE-LINE DIAGRAM FOR REFERENCE ONLY)
E5.02	ONE-LINE DIAGRAM FOR REFERENCE ONLY)
E5.03	ONE-LINE DIAGRAM FOR REFERENCE ONLY)
E5.04	ONE-LINE DIAGRAM FOR REFERENCE ONLY)
E6.00	PANEL SCHEDULES & LOAD CALC'S
E7.00	ELECTRICAL DETAILS

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06/23/25
25-0655

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Dewberry®
Dewberry Architects, Inc.
301 N Lake Ave
Suite 320
Pasadenaa, CA 91101
916.239.7252 Phone

CALIFORNIA DEPARTMENT OF GENERAL SERVICES

CENTRAL UTILITY PLANT

ATS AND ELECTRICAL REPAIRS
625 Q STREET
SACRAMENTO, CA 95814
PERMIT SET

SEAL

LICENSED ARCHITECT
JOHN N. ERICKSON
C-25248
05/ 31/ 2025
RENEWAL DATE
STATE OF CALIFORNIA

SCALE

As indicated

No.	Description	Date
REVISIONS		

DRAWN BY	AA
APPROVED BY	BH
CHECKED BY	BH
DATE	JANUARY 27, 2025

TITLE

INDEX

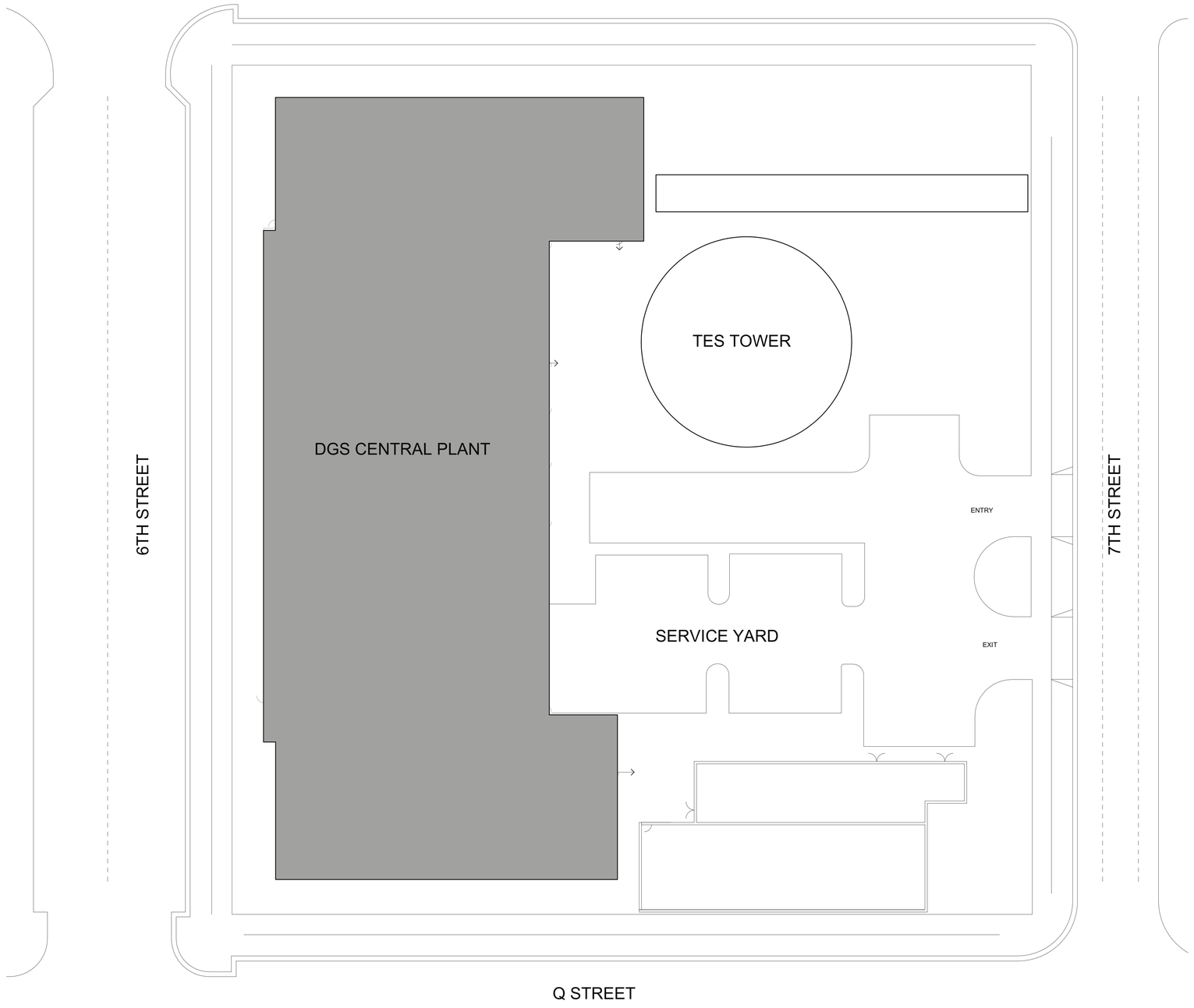
PROJECT NO. 50171906

G-001

SHEET NO.

ISSUE DATE: AUGUST 22, 2025

V2



1 Site Plan
Scale: 1" = 20'-0"

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LICENSED ARCHITECT
PATRICIA N. ESPOSITO
C-25246
05/ 31/ 2025
RENEWAL DATE
STATE OF CALIFORNIA

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1" = 20'-0"

No.	Description	Date

REVISIONS

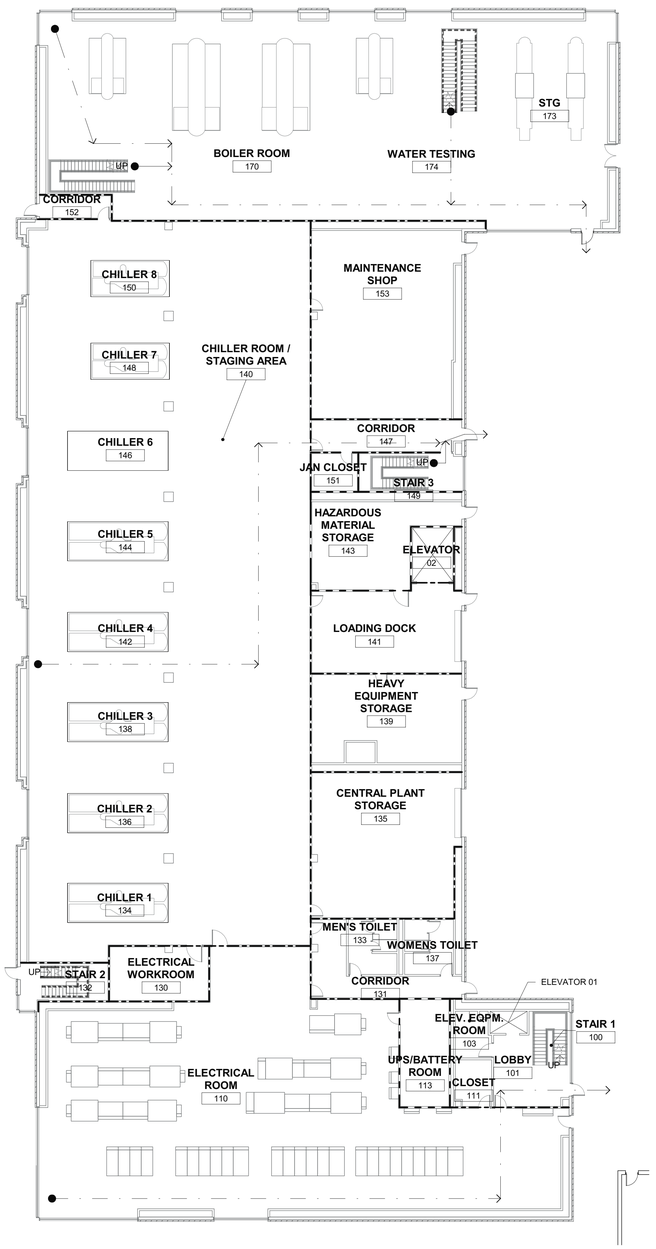
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DATE	JANUARY 27, 2025

TITLE
SITE PLAN

PROJECT NO. 50171906

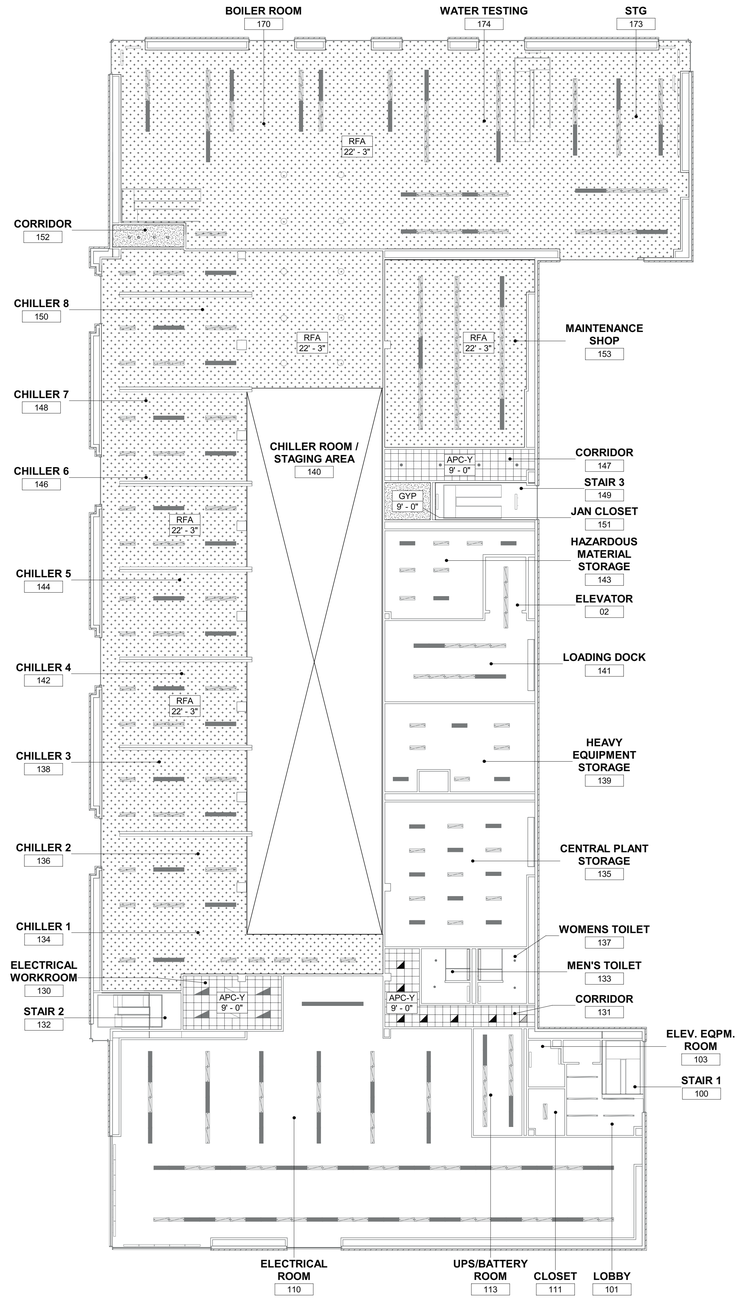
A-100
SHEET NO.

ISSUE DATE: AUGUST 22, 2025
V2



1 FIRST FLOOR ANNOTATION PLAN

Scale: 1/16" = 1'-0"



2 FIRST FLOOR REFLECTED CEILING PLAN

Scale: 1/16" = 1'-0"

LEGEND

- APC-X / 8' - 0" — CEILING TYPE / CEILING HEIGHT
- SUSPENDED ACOUSTICAL PANEL CEILING (APC-#)
- GYPSUM BOARD CEILING (GYP BD-#)
- PLASTER CEILING (PLAS-#)
- RIGID FIBERGLASS ACOUSTIC LINER (RFA-#)
- EXPOSED TO DECK
- RECESSED LIGHT FIXTURE
- PENDANT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- STRIP FIXTURE
- RECESSED LIGHT FIXTURE
- TRACK LIGHTING
- EMERGENCY LIGHT
- EXIT SIGN
- 1 HR. FIRE RATED WALL
- 2 HR. FIRE RATED WALL

*NOTE: FOR MEFFP DEVICES, REFER TO MEFFP DRAWINGS AND LEGENDS.

CODE PLAN LEGEND

PATH — TRAVEL DISTANCE (SEE EGRESS PATH SCHEDULE)

KEYNOTES PER SHEET

NOTE	DESCRIPTION

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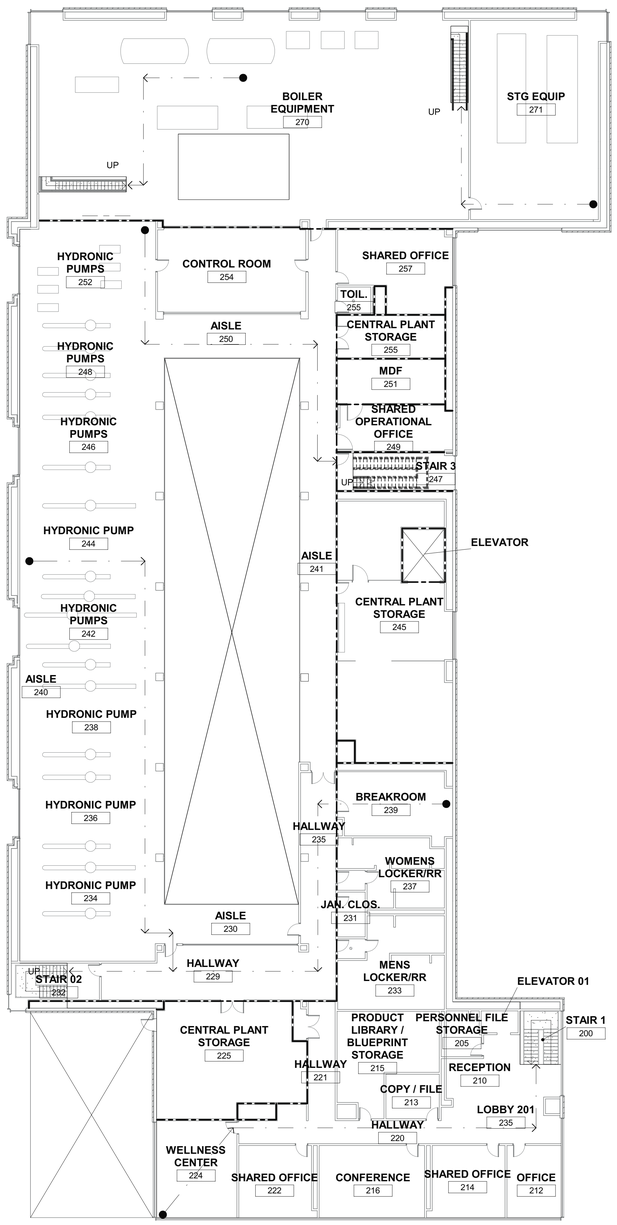
PROJECT NO. 50171906

A-111

SHEET NO.

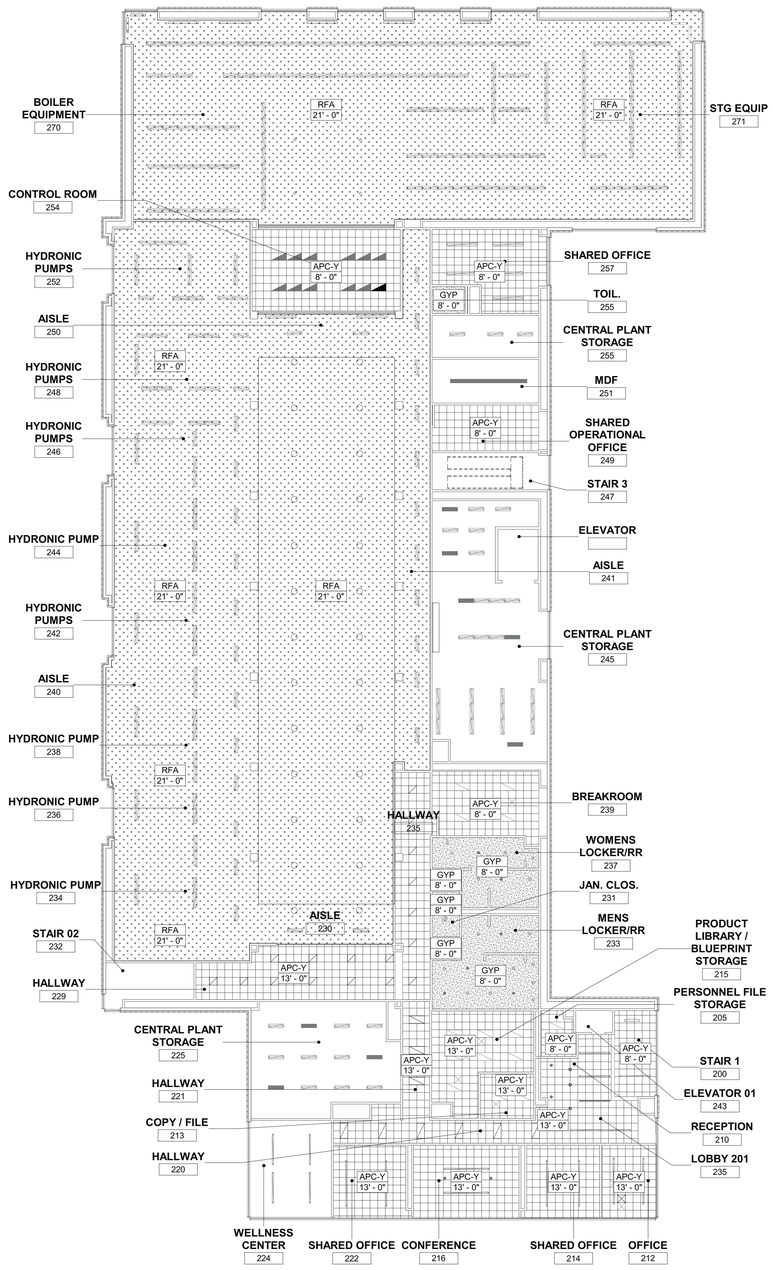
ISSUE DATE: AUGUST 22, 2025

V2



1 SECOND FLOOR ANNOTATION PLAN

Scale: 1/16" = 1'-0"



2 SECOND FLOOR REFLECTED CEILING PLAN

Scale: 1/16" = 1'-0"

LEGEND

- APC-X / 8' - 0" — CEILING TYPE / CEILING HEIGHT
- SUSPENDED ACOUSTICAL PANEL CEILING (APC-#)
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*NOTE: FOR MEFFP DEVICES, REFER TO MEFFP DRAWINGS AND LEGENDS

CODE PLAN LEGEND

- PATH — TRAVEL DISTANCE (SEE EGRESS PATH SCHEDULE)

KEYNOTES PER SHEET

NOTE	DESCRIPTION

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SCALE

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No.	Description	Date

REVISIONS

DRAWN BY	AA
APPROVED BY	BH
CHECKED BY	BH
DATE	JANUARY 27, 2025

TITLE

SECOND FLOOR ANNOTATION PLAN

PROJECT NO. 50171906

A-121

SHEET NO.

ISSUE DATE: AUGUST 22, 2025

V2

GENERAL NOTES

THE CONTRACTOR SHALL VISIT JOB SITE AND VERIFY CONDITIONS BEFORE BIDDING.

THE FACILITY SHALL REMAIN IN OPERATION DURING ALL PHASES OF WORK. WHERE SYSTEM SHUTDOWNS AND POWER OUTAGES ARE UNAVOIDABLE, SUCH WORK SHALL BE SCHEDULED WITH THE FACILITY MANAGER AND SHALL OCCUR AT SUCH TIMES AS TO CAUSE THE LEAST DISRUPTION OF NORMAL FACILITY FUNCTIONS. INCLUDE ALL PREMIUM LABOR IN BID PROPOSAL TO COVER WORK REQUIRED TO BE PERFORMED BEFORE OR AFTER "NORMAL" WORKING HOURS.

COORDINATE SEQUENCE OF WORK WITH OWNER. MAKE ALL NECESSARY CONNECTIONS AS REQUIRED TO MAINTAIN POWER DURING THE STAGES OF WORK.

EXISTING DEVICES SHOWN WERE TAKEN FROM EXISTING DRAWINGS (NOT "AS BUILT" DRAWINGS) AND LIMITED SITE SURVEYS AND MAY NOT BE EXACTLY AS SHOWN. CONTRACTOR SHALL VISIT JOB SITE AND VERIFY CONDITIONS PRIOR TO BIDDING.

REFER TO THOSE DRAWINGS SHOWING OTHER WORK, AND COORDINATE PLACEMENT OF WORK WITH THAT OF OTHER TRADES. REPORT ANY CONFLICT TO ARCHITECT PRIOR TO INSTALLING WORK, ADJUST WORK AS DIRECTED BY ARCHITECT.

EXISTING DEVICES SHOWN WITH INCOMPLETE, OR WITHOUT BRANCH CIRCUITRY WHERE INSTALLED AND/OR ALTERED BY OWNER. CONTRACTOR SHALL RELOCATE EXISTING BRANCH CIRCUITRY AND MAKE ALL NECESSARY RECONNECTIONS AS REQUIRED TO FACILITATE REMODEL. VERIFY ALL WORK REQUIRED ON THE JOB AND RECORD ON RECORD DRAWINGS.

CORE DRILL EXISTING WALLS AND FLOORS AS REQUIRED TO FACILITATE CONDUIT INSTALLATION. SEAL ALL PENETRATIONS WATER AND SMOKE TIGHT AND IN CONFORMANCE WITH CBC SECTION 714.1 AND C.E.C. 300.21. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE OSHPD FIRE MARSHAL. NO REBAR SHALL BE CUT DURING CORE DRILL OPERATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NEW FIRE STOPPING OF ALL NEW OR EXISTING CONDUIT OR CABLE PENETRATIONS IN NEW OR EXISTING FIRE RATED WALLS WITHIN THE LIMITS OF WORK.

REMOVE AND REINSTALL EXISTING LIGHT FIXTURES AS REQUIRED TO FACILITATE INSTALLATION OF WORK OF OTHER TRADES UNDER THIS PROJECT. VERIFY ALL WORK REQUIRED ON THE JOB.

ALL EQUIPMENT INSTALLED OR CONNECTED BY THE CONTRACTOR SHALL BE LABELED OR CERTIFIED FOR ITS USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

EMERGENCY SYSTEM WIRING SHALL BE KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING. WIRING SHALL NOT ENTER THE SAME RACEWAY, BOX OR CABINET WITH OTHER WIRING PER CEC 517.30(C). PROVIDE PERMANENT SEPARATION BARRIER OR SEPARATE TERMINAL BOX AS REQUIRED PER CEC 314.28(D).

NO PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE IN THE DEDICATED SPACE FOR SWITCHBOARD(S), PANELBOARD(S), AND/OR MOTOR CONTROL CENTER(S) PER CEC 110.26(F).

UNLESS OTHERWISE INDICATED, ALL 20 AMP 120 OR 277 VOLT BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS. DO NOT SHARE NEUTRALS.

WHERE PROVIDED, THROUGH PENETRATION FIRE STOP SYSTEM AND MEMBRANE PENETRATION DETAILS ARE FOR REFERENCE ONLY. THROUGH PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRE STOP SYSTEM OR MEMBRANE PENETRATION FIRE STOP 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 BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRE STOP SYSTEMS, MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRE STOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED TO HCAI FDD REVIEW AND APPROVAL PRIOR TO INSTALLATION.

DEMOLITION NOTES

DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION.

DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS AND CEILINGS SCHEDULED FOR REMOVAL.

PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.

REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. ANY FIRE RESISTANCE RATED CONSTRUCTION DAMAGED DURING THE SCOPE OF WORK SHALL BE REPAIRED TO MATCH THE EXISTING RATED CONDITION PER 2016 CFC SECTION 703.1.

REMOVE EXPOSED ABANDONED WIRE AND CABLE. PATCH SURFACES WHERE REMOVED CABLES PASS THROUGH BUILDING FINISHES.

DISCONNECT ABANDONED CIRCUITS, OUTLETS AND REMOVE CIRCUIT DEVICES, WIRE AND CABLE. REMOVE ABANDONED BOXES, OUTLETS IF RACEWAY, WIRE AND CABLE SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED BOXES WHICH ARE NOT REMOVED.

ENSURE ACCESS TO EXISTING BOXES, WIRING CONNECTIONS AND OTHER INSTALLATIONS WHICH ARE TO REMAIN ACTIVE AND WHICH REQUIRE ACCESS. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

SHEET INDEX

SHEET	DESCRIPTION
E0.00	SYMBOLS LIST, NOTES, & SHEET INDEX
E0.01	LUMINARIE SCHEDULE & LIGHTING NOTES
E0.02	TITLE 24 COMPLIANCE FORMS
E0.03	TITLE 24 COMPLIANCE FORMS
E0.04	TITLE 24 COMPLIANCE FORMS
E1.00	OVERALL FLOOR PLAN - LEVEL 01 & 02
E1.11	LEVEL 01 AREA A RCP PLAN - DEMO LIGHTING
E1.12	LEVEL 01 AREA B RCP PLAN - DEMO LIGHTING
E1.21	LEVEL 02 AREA A RCP PLAN - DEMO LIGHTING
E1.22	LEVEL 02 AREA B RCP PLAN - DEMO LIGHTING
E2.11	LEVEL 01 AREA A RCP PLAN - LIGHTING
E2.12	LEVEL 01 AREA B RCP PLAN - LIGHTING
E2.21	LEVEL 02 AREA A RCP PLAN - LIGHTING
E2.22	LEVEL 02 AREA B RCP PLAN - LIGHTING
E3.12	LEVEL 01 AREA B FLOOR PLAN - DEMO/NEW POWER
E5.00	PARTIAL ONE-LINE DIAGRAM
E6.00	PANEL SCHEDULES & LOAD CALC'S
E7.00	ELECTRICAL DETAILS

STANDARD ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	RECESSED MOUNTED LED PARABOLIC LUMINAIRE.
	SUSPENDED LED LUMINAIRE.
	RECESSED MOUNTED LED DIRECT/INDIRECT LUMINAIRE.
	WALL MOUNTED LED LUMINAIRE.
	SURFACE MOUNTED LED LUMINAIRE.
	HIGH BAY MOUNTED LUMINAIRE.
	RECESSED MOUNTED LUMINAIRE.
	LUMINAIRE SHADING INDICATES LUMINAIRE CONNECTED TO EMERGENCY POWER SOURCE.
B	LUMINAIRE TAG, LETTER INDICATES TYPE, SEE LUMINAIRE SCHEDULE.
S	277V LINE VOLTAGE SINGLE POLE TOGGLE SWITCH, MOUNTED +44" ABOVE FINISHED FLOOR TO CENTER OF BOX.
S_pS_p S_kS_{mc}	SWITCH SUBSCRIPTS; a,b,c = DEVICE CONTROL, p = PILOT LIGHT, k = KEYED, mc = MOMENTARY CONTACT.
2WH	2-BUTTON WIRELESS PICO, ON/OFF AND DIMMING MANUAL CONTROL. WALL MOUNTED +44" ABOVE FINISHED FLOOR TO CENTER OF BOX.
2WH	2-BUTTON WIRELESS PICO, ON/OFF MANUAL CONTROL. WALL MOUNTED +44" ABOVE FINISHED FLOOR TO CENTER OF BOX.
OSWH	WIRELESS OCCUPANCY/VACANCY SINGLE POLE MANUAL ON/OFF CONTROL. WALL MOUNTED +44" ABOVE FINISHED FLOOR TO CENTER OF BOX.
WH	277V INPUT LIGHTING CONTROL HUB. BMS INTEGRATION AND DEMAND RESPONSE CAPABILITIES.
ELI	EMERGENCY LIGHTING INTERFACE CONTROL MODULE.
DM	DIMMING MODULE WITH 0-10V CONTROL.
RM	16AMP RELAY POWPAK MODULE WITH SOFTSWITCH.
OS	AUTOMATIC "ON", CEILING MOUNTED PIR OCCUPANCY SENSOR.
	BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED.
	BRANCH CIRCUIT PANELBOARD, FLUSH MOUNTED.
	TERMINAL CABINET, SURFACE MOUNTED, SIZE AND TYPE AS INDICATED.
J	JUNCTION BOX, SIZE AND TYPE AS INDICATED OR REQUIRED.
(E)	EXISTING.
(N)	NEW.
(D)	DEMOLISH.
(R)	RELOCATE.
(ER)	EXISTING RELOCATED IN LOCATION SHOWN.
XX	NUMBERED NOTE.
	RACEWAY INSTALLED IN CEILING OR WALL. ROUTE EXPOSED IN ALL UNFINISHED AREAS.
	RACEWAY INSTALLED BELOW FINISHED FLOOR OR GRADE.
	EXISTING CONDUIT RUN TO BE ABANDONED. CONDUIT ABOVE THE FLOOR AND BELOW THE STRUCTURE ABOVE SHALL BE REMOVED.
	EXISTING CONDUIT RUN, VERIFY ROUTING ON THE JOB.
	REMOVE (E) WIRE PULL NEW WIRES, #12 AWG UNLESS NOTED.
	ARROW AT END OF RACEWAY INDICATES HOME RUN TO RESPECTIVE PANELBOARD OR SWITCHBOARD.
	BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 #12 AWG CIRCUIT WITH 1 #12 AWG GROUND.
	STRAIGHT CROSS-LINES IN BRANCH CIRCUIT RACEWAY INDICATE NUMBER OF #12 AWG WIRES IN A CIRCUIT. SHORT LINES INDICATE UNGROUNDED CONDUCTORS. LONG LINES INDICATE NEUTRAL CONDUCTORS. WIRES SHOWN ARE IN ADDITION TO 1 #12 AWG GROUNDING CONDUCTOR.
#10	BRANCH CIRCUIT WITH GROUNDING WIRE LARGER THAN #12 AWG. NUMBER ADJACENT TO CURVED CROSS-LINE INDICATES WIRE SIZE.
#10	BRANCH CIRCUIT RACEWAY WITH WIRE OTHER THAN #12 AWG. NUMBER ADJACENT TO STRAIGHT OR CURVED CROSS-LINES INDICATES WIRE SIZE. UNGROUNDED AND NEUTRAL CONDUCTORS SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
	CONDUIT RACEWAY SLEEVE.
	INDICATES RACEWAY TURNING UP.
	INDICATES RACEWAY TURNING DOWN.
	INDICATES RACEWAY STUB. TERMINATE WITH BUSHING OR CAP IF UNDERGROUND.

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/23/25
25-0655
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

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CALIFORNIA DEPARTMENT OF GENERAL SERVICES
CENTRAL UTILITY PLANT
ATS AND ELECTRICAL REPAIRS
625 Q STREET
SACRAMENTO, CA 95814
SCHEMATIC DESIGN

SEAL
REGISTERED PROFESSIONAL ENGINEER
BENJAMIN SCHLEIKER
No. E 021982
Exp. 9/30/25
ELECTRICAL
STATE OF CALIFORNIA
01/27/2025

SCALE
1" = 20'-0"

No.	Description	Date

REVISIONS

DRAWN BY	ECOM
APPROVED BY	BH
CHECKED BY	BH
DATE	JANUARY 27, 2025

TITLE
SYMBOLS LIST, NOTES, & SHEET INDEX

PROJECT NO. 50171906

E0.00
SHEET NO.

ISSUE DATE: AUGUST 22, 2025
V2

3/12/2024 10:47:39 AM

LUMINAIRE SCHEDULE

TAG	MANUFACTURER & CATALOG NUMBER	DESCRIPTION	MTG.	LAMP		VOLTS	WATTS	REMARKS
				TYPE	No.			
F1A	WILLIAMS WMAUD-4-L65-835U-L65-835D-AF-DIMU-DIMD-UNV	WALL MOUNT UP/DOWN LED LUMINAIRE 0-10V DIMMING	WALL	LED	N/A	277	100.8	
F2	WILLIAMS 6DR-TL-L20-835-DIM-UNV-OW-OF-CS	6" RECESSED LED DOWNLIGHT 0-10V DIMMING	RECESSED	LED	N/A	277	19	
F2A	WILLIAMS 6DR-TL-L10-835-DIM-UNV-OW-OF-CS	6" RECESSED LED DOWNLIGHT 0-10V DIMMING	RECESSED	LED	N/A	277	8.7	
F3-4	FINELITE HP-2-WS-4D-4ft-S-835-96LG-277-SC-FC-10%-SW	4 FOOT LONG 2" APERTURE RECESSED LED LUMINAIRE 0-10V DIMMING	RECESSED	LED	N/A	277	14	
F3-8	FINELITE HP-2-WS-4D-8ft-S-835-96LG-277-SC-FC-10%-SW	8 FOOT LONG 2" APERTURE RECESSED LED LUMINAIRE 0-10V DIMMING	RECESSED	LED	N/A	277	28	
F5	FINELITE HPX-R-D-8'-S-835-F-277-SC-FC-DALI-1%-VOCC	8 FOOT LONG 2.5" APERTURE RECESSED LED LUMINAIRE 0-10V DIMMING	RECESSED	LED	N/A	277	25.6	INTEGRAL VIVE RF CONTROL MODULE & SENSOR
F6-4	FINELITE HPX-P-ID-4'-S-S-835-TG-F-277-SC-FC-DALI-1%-VOCC	4 FOOT LONG 2"WIDE PENDANT LED LUMINAIRE 0-10V DIMMING	PENDANT	LED	N/A	277	26.8	INTEGRAL VIVE RF CONTROL MODULE & SENSOR
F6-8	FINELITE HPX-P-ID-8'-S-S-835-TG-F-277-SC-FC-DALI-1%-VOCC	8 FOOT LONG 2"WIDE PENDANT LED LUMINAIRE 0-10V DIMMING	PENDANT	LED	N/A	277	53.6	INTEGRAL VIVE RF CONTROL MODULE & SENSOR
F6-12	FINELITE HPX-P-ID-12'-S-S-835-TG-F-277-SC-FC-DALI-1%-VOCC	12 FOOT LONG 2"WIDE PENDANT LED LUMINAIRE 0-10V DIMMING	PENDANT	LED	N/A	277	80.4	INTEGRAL VIVE RF CONTROL MODULE & SENSOR
F8	BRUCK MLED-35K-90-xxx-xx	LED PENDANT 0-10V DIMMING	PENDANT	LED	N/A	277	7.5	VERIFY SHADE COLOR, FINISH AND MOUNTING OPTIONS
F10	FINELITE HPR-LED-A-2X4-DCO-S-835-96LG-277-SC-FC-10%-96LG	2X4 LED TROFFER 0-10V DIMMING	RECESSED T-BAR	LED	N/A	277	27	
F10A	FINELITE HPR-LED-A-2X2-DCO-H-835-96LG-277-SC-FC-10%-96LG	2X2 LED TROFFER 0-10V DIMMING	RECESSED T-BAR	LED	N/A	277	42.8	
F10B	FINELITE HPR-LED-A-2X4-DCO-H-835-96LG-277-SC-FC-10%-96LG	2X4 LED TROFFER 0-10V DIMMING	RECESSED T-BAR	LED	N/A	277	40.6	
F11	WILLIAMS SLF-4-L52-835-HIA-DIM-UNV	4 FOOT LONG SURFACE MOUNT LED LUMINAIRE 0-10V DIMMING	SURFACE	LED	N/A	277	37.2	
F11A	WILLIAMS 75R-8-L60-835-DIM-UNV	8 FOOT LONG SURFACE MOUNT LED LUMINAIRE 0-10V DIMMING	SURFACE	LED	N/A	277	35.3	INTEGRAL VIVE RF CONTROL MODULE & SENSOR
L1	WILLIAMS 75R-4-L65/835-VRF/DSR-UNV	4 FOOR LONG SURFACE MOUNT LED LUMINAIRE 0-10V DIMMING	SURFACE	LED	N/A	277	42.3	INTEGRAL VIVE RF CONTROL MODULE
L1A	WILLIAMS 75R-4-L85/835-VRF/DSR-UNV	4 FOOR LONG SURFACE MOUNT LED LUMINAIRE 0-10V DIMMING	SURFACE	LED	N/A	277	56.2	INTEGRAL VIVE RF CONTROL MODULE
L1B	WILLIAMS 75R-4-L100/835-VRF/DSR-UNV	4 FOOR LONG SURFACE MOUNT LED LUMINAIRE 0-10V DIMMING	SURFACE	LED	N/A	277	68.3	INTEGRAL VIVE RF CONTROL MODULE
L2A	ALPHABET DELTA-H-SW-3PW(250LM)-120W-50K-80-WH-AC-DIM10	LED HIGH BAY PENDANT 0-10V DIMMING	PENDANT	LED	N/A	277	120	
L3	WILLIAMS 75R-4-L30/835-VRF/DSR-UNV	4 FOOT LONG SURFACE MOUNT LED LUMINAIRE 0-10V DIMMING	SURFACE	LED	N/A	277	19.7	INTEGRAL VIVE RF CONTROL MODULE
L7	FINELITE HPR-LED-A-DCO-2X4-S-835-96LG-277-SC-FC-10%-96LG	2X4 LED TROFFER 0-10V DIMMING	RECESSED	LED	N/A	277	27	EMBEDDED PIR MOTION SENSOR
X	WILLIAMS EXIT-R-AC-WHT-SF-D277	EXIT SIGN	SURFACE	LED	N/A	277	2	

LIGHTING FIXTURE NOTES

1. THE EXACT MOUNTING LOCATION FOR ALL LIGHT FIXTURES SHALL BE DETERMINED FROM THE ARCHITECTURAL REFLECTED CEILING PLANS. VERIFY MOUNTING HEIGHTS OF SUSPENDED FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
2. MANUFACTURER AND DESCRIPTIONS NOTED ARE TO ESTABLISH MINIMUM STANDARDS. PRODUCTS WILL BE REVIEWED BASED ON PHOTOMETRICS, CONSTRUCTION AND APPEARANCE.
3. ATTACH ALL LIGHT FIXTURES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
4. FLUSH OR RECESSED LIGHT FIXTURES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF TWO 12GA. SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4 FT. X 4 FT. LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER. ALL FLUSH OR RECESSED LIGHT FIXTURES WEIGHING 56 POUNDS OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 TAUT 12 GA. WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE, REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED. THE 4 TAUT 12 GA. WIRES INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE MUST BE CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE UNIT.
5. ALL FIXTURES SUPPORTED ON INTERMEDIATE DUTY GRID SYSTEMS MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 TAUT 12 GA. WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE.
6. SUPPORT SURFACE MOUNTED FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GA. WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE. PROVED ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 FEET OR LONGER.
7. SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRCTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE FIXTURE.
8. ALL PENDANT MOUNTED FIXTURES SHALL BE INSTALLED WITH CANOPIES AND STEMS SUCH THAT THEY SWING A MINIMUM OF 45 DEG. IN ALL DIRECTIONS WITHOUT HITTING ANY OBSTRUCTIONS. IF THERE ARE OBSTRUCTIONS WITHIN THE 45 DEG. SWING AREA, PROVIDE SWAY BRACING TO RESTRICT ANY MOVEMENT.
9. ALL LIGHT FIXTURES RECESSED IN FIRE RATED CEILING SHALL COMPLY WITH U.L. FIRE RESISTANCE DIRECTORY LATEST EDITION.
10. VERIFY EXACT MOUNTING HEIGHTS OF SUSPENDED LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
11. PROVIDE 277V TO 24VDC POWER SUPPLY LOCATED ABOVE ACCESSIBLE CEILING SPACE AS REQUIRED.
12. CONTRACTOR TO VERIFY LIGHT FIXTURE FINISHES WITH ARCHITECT PRIOR TO PROCUREMENT.
13. RUN UNSWITCHED HOT CONDUCTORS (120V OR 277V) TO BATTERY BACKUP LIGHT FIXTURES.

LIGHTING CONTROL NOTES

1. THE SYSTEM SHALL BE CAPABLE OF TUNING LIGHTING LOADS ON/OFF AS WELL AS DIMMING LIGHTS (IF LIGHTING LOAD IS CAPABLE OF BEING DIMMED).
2. THE SYSTEM ARCHITECTURE SHALL FACILITATE REMOTE OPERATION VIA COMPUTER CONNECTION.
3. OCCUPANCY SENSORS AND PHOTOCELLS ARE SHOWN FOR DESIGN INTENT ONLY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING PROPER LOCATIONS AND QUANTITIES OF DEVICES AND WIRING FOR A COMPLETE INSTALLATION.
4. THE LIGHTING CONTROL SYSTEM SHALL BE EQUIPPED WITH DEMAND RESPONSE CAPABILITIES.
5. THE LIGHTING CONTROL SYSTEM SHALL BE CAPABLE OF BEING INTEGRATED WITH THE BUILDING MANAGEMENT SYSTEM 'BMS' TO SHARE OCCUPANCY SENSOR INFORMATION WITH HVAC CONTROLS CIA BACNET COMMUNICATION. OCCUPANCY STATUS ONLY AVAILABLE IN AREAS WHERE OCCUPANCY SENSORS ARE REQUIRED BY CODE.
6. THE LIGHTING CONTROL SYSTEM SHALL BYPASS LIGHTING CONTROLS TO TURN EMERGENCY EGRESS LIGHTING ONTO FULL BRIGHTNESS IN THE EVENT OF A FIRE ALARM OR LOSS OF NORMAL UTILITY POWER.

LIGHTING CONTROL SEQUENCE OF OPERATION

ROOM TYPE	OPERATING MODE	OCCUPANCY SENSOR MODE - ON	OCCUPANCY SENSOR MODE OFF	TIME DELAY (MIN)
ELECTRICAL ROOM/BOILERS/ ELEVATOR MACHINE ROOM	MANUAL ON			5
	MANUAL OFF			
PATH OF EGRESS CORRIDORS / LOBBIES	NORMAL	AUTO ON	DIM 20%	20
	AFTER HRS.	AUTO ON	AUTO OFF	5
STAIRWELLS	NORMAL	AUTO ON	DIM 20%	5
	AFTER HRS.	AUTO ON	AUTO OFF	5
PRIVATE OFFICE / RECEPTION		MANUAL ON	AUTO OFF	15
OPEN OFFICE		MANUAL ON	AUTO OFF	20
RESTROOMS		AUTO ON	AUTO OFF	20
BREAK ROOM/STORAGE		AUTO ON	AUTO OFF	20
IDF / MDF ROOM		MANUAL ON	AUTO OFF	5

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/23/25
25-0655
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

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CALIFORNIA DEPARTMENT OF GENERAL SERVICES
CENTRAL UTILITY PLANT
ATS AND ELECTRICAL REPAIRS
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SCHEMATIC DESIGN

SEAL
PROFESSIONAL ENGINEER REGISTERED
BENJAMIN SCHLENKER
No. E 021982
Exp. 9/30/25
ELECTRICAL
STATE OF CALIFORNIA
01/27/2025

SCALE
1" = 20'-0"

No.	Description	Date

REVISIONS

DRAWN BY	ECOM
APPROVED BY	BH
CHECKED BY	BH
DATE	JANUARY 27, 2025

TITLE
LUMINARIE SCHEDULE & LIGHTING NOTES

PROJECT NO. 50171906

E0.01
SHEET NO.

ISSUE DATE: AUGUST 22, 2025
V2

3/1/2024 10:47:39 AM

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: DGS CUP - Electrical Repair Scope	**Report Page:** (Page 1 of 16)
Project Address:	**Date Prepared:** 2025-01-27T11:33:52-05:00

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

A. GENERAL INFORMATION

01	Project Location (city)	Sacramento	04	Total Conditioned Floor Area (ft²)	12,231
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft²)	66,698
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	2

● Commercial Industrial ● Office

B. PROJECT SCOPE

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

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System	N/A	0	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
☒ Altered Lighting System	Area Category Method	12231	Area Category Method	66698
Total Area of Work (ft²)	12231		66698	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: DGS CUP - Electrical Repair Scope	**Report Page:** (Page 2 of 16)
	Date Prepared: 2025-01-27T11:33:52-05:00

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)			Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)		Total Adjusted (Watts) *Includes Adjustments	
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			05 must be >= 08 140.6 / 170.2(e)
Conditioned		5,694.2			=	5,694.2	≥ 4,403		=	4403	COMPLIES
Unconditioned		48,759.65			=	48,759.65	≥ 42,228.3		=	42228.3	COMPLIES
							Controls Compliance (See Table H for Details)				COMPLIES
							Rated Power Reduction Compliance (See Table Q for Details)				

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

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CALIFORNIA ENERGY COMMISSION

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F. INDOOR LIGHTING FIXTURE SCHEDULE

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

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
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 Inspector	
									Pass	Fail
F2	6" RECESSED LED DOWNLIGHT	No	NA	19	Mfr. Spec	30	No	570	☐	☐
F2A	6" RECESSED LED DOWNLIGHT	No	NA	8.7	Mfr. Spec	3	No	26.1	☐	☐
F3-4	4' LINEAR RECESSED LUMINAIRE	No	NA	14	Mfr. Spec	2	No	28	☐	☐
F3-8	8' LINEAR RECESSED LUMINAIRE	No	NA	28	Mfr. Spec	2	No	56	☐	☐
F5	8' LINEAR RECESSED LUMINAIRE	No	NA	25.6	Mfr. Spec	13	No	332.8	☐	☐
F6-4	4' LINEAR PENDANT LUMINAIRE	No	NA	26.8	Mfr. Spec	6	No	160.8	☐	☐
F6-8	8' LINEAR PENDANT LUMINAIRE	No	NA	53.6	Mfr. Spec	9	No	482.4	☐	☐
F6-12	12' LINEAR PENDANT LUMINAIRE	No	NA	80.4	Mfr. Spec	8	No	643.2	☐	☐
F8	LED PENDANT	No	NA	7.5	Mfr. Spec	11	No	82.5	☐	☐
F10	2X4 LED TROFFER	No	NA	27	Mfr. Spec	27	No	729	☐	☐
F11A	8' LINEAR SURFACE LED LUMINAIRE	No	NA	35.3	Mfr. Spec	8	No	282.4	☐	☐
L3	4' LINEAR SURFACE LED LUMINAIRE	No	NA	19.7	Mfr. Spec	8	No	157.6	☐	☐

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F. INDOOR LIGHTING FIXTURE SCHEDULE

L7	2X4 LED TROFFER	No	NA	27	Mfr. Spec	6	No	162	☐	☐
F10B	2X4 LED TROFFER	No	NA	40.6	Mfr. Spec	17	No	690.2	☐	☐
						Total Designed Watts: CONDITIONED SPACES		4,403		

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
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 Inspector	
									Pass	Fail
F1A	WALL MOUNT UP/DOWN LED LUMINAIRE	No	NA	100.8	Mfr. Spec	1	No	100.8	☐	☐
F11	4' LINEAR SURFACE LED LUMINAIRE	No	NA	37.2	Mfr. Spec	19	No	706.8	☐	☐
L1	4' LINEAR SURFACE LED LUMINAIRE	No	NA	42.3	Mfr. Spec	322	No	13,620.6	☐	☐
L3	4' LINEAR SURFACE LED LUMINAIRE	No	NA	19.7	Mfr. Spec	54	No	1,063.8	☐	☐
F11A	4 FOOT LONG SURFACE MOUNT LED LUMINAIRE	No	NA	35.3	Mfr. Spec	8	No	282.4	☐	☐
L1A	4 FOOT LONG SURFACE MOUNT LED LUMINAIRE	No	NA	56.2	Mfr. Spec	28	No	1,573.6	☐	☐
L1B	4 FOOT LONG SURFACE MOUNT LED LUMINAIRE	No	NA	88.3	Mfr. Spec	241	No	21,280.3	☐	☐
L2A	LED HIGH BAY PENDANT	No	NA	120	Mfr. Spec	30	No	3,600	☐	☐
							Total Designed Watts: UNCONDITIONED SPACES	42,228.3		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

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G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	☐	☐
Required >= 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
101 - LOBBY	Main Entry Lobby	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
103 - ELEVATOR EQUIPMENT ROOM	Electrical Mechancial Telephone Room	Readily Accessible	NA: Enclosed area w/ 1 inseparable SSL luminaire	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
110 - ELECTRICAL ROOM	Electrical Mechancial Telephone Room	Readily Accessible	Multilevel Switch	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
111 - CLOSET	Commercial Industrial Storage Area	Readily Accessible	NA: Enclosed area w/ 1 inseparable SSL luminaire	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

130 - ELECTRICAL WORKROOM	General Commercial Industrial Work Area Precision	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
131 - CORRIDOR	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
132 - STAIR 2	Stairwell	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
133 - MEN'S TOILET	Restroom	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
135 - CENTRAL PLANT STORAGE	Commercial Industrial Storage Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
137 - WOMEN'S TOILET	Restroom	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
139 - HEAVY EQUIPMENT STORAGE	Commercial Industrial Storage Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
140 - CHILLER ROOM / STAGING AREA	General Commercial Industrial Work Area Precision	Readily Accessible	Multilevel Switch	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
141 - LOADING DOCK	Commercial Industrial Storage Shipping	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
143 - HAZARDOUS MATERIAL STORAGE	Commercial Industrial Storage Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
147 - CORRIDOR	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
149 - STAIR 3	Stairwell	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
151 - JAN CLOSET	Commercial Industrial Storage Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
152 - CORRIDOR	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
153 - MAINTENANCE SHOP	General Commercial Industrial Work Area Precision	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

170 - BOILER ROOM	General Commercial Industrial Work Area Precision	Readily Accessible	Multilevel Switch	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
205 - STORAGE	Commercial Industrial Storage Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
212 - OFFICE	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
213 - COPY / FILE	Copy Room	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
214 - SHARED OFFICE	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
215 - PRODUCT LIBRARY / BLUEPRINT STORAGE	Commercial Industrial Storage Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
216 - CONFERENCE	Conference, Multipurpose and Meeting Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
222 - SHARED OFFICE	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
224 - WELLNESS CENTER	Exercise Center Gymnasium	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
225 - CENTRAL PLAN STORAGE	Commercial Industrial Storage Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
229 - HALLWAY	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
230 - AISLE	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
231 - JAN. / CLOS.	Commercial Industrial Storage Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
232 - STAIR 2	Stairwell	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
233 - MENS LOCKER	Locker/Dressing Room	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

237 - WOMENS LOCKER	Locker/Dressing Room	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
239 - BREAKROOM	Kitchen/ Food Preparation	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
245 - CENTRAL PLAN STORAGE	Commercial Industrial Storage Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
247 - STAIR 3	Stairwell	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
248 - HYDROLIC PUMP	General Commercial Industrial Work Area Precision	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
249 - SHARED OPERATIONAL OFFICE	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
250 - AISLE	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
251 - MDF	Electrical Mechancial Telephone Room	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
254 - CONTROL ROOM	General Commercial Industrial Work Area Precision	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
255 - CENTRAL PLANT STORAGE	Commercial Industrial Storage Area	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
257 - SHARED OFFICE	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
270 - BOILER EQUIPMENT	General Commercial Industrial Work Area Precision	Readily Accessible	Multilevel Switch	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
113 - UPS/BATTERY ROOM	Electrical Mechancial Telephone Room	Readily Accessible	Multilevel Switch	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		

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

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
101 - LOBBY	Main Entry Lobby	0.7	496	347.2	No	No
131 - CORRIDOR	Corridor	0.4	353	141.2	No	No
133 - MEN'S TOILET	Restroom	0.65	210	136.5	No	No
137 - WOMEN'S TOILET	Restroom	0.65	203	131.95	No	No
205 - STORAGE	Commercial Industrial Storage Area	0.4	127	50.8	No	No
212 - OFFICE	Office (>250 square feet)	0.6	266	159.6	No	No
213 - COPY / FILE	Copy Room	0.5	162	81	No	No
214 - SHARED OFFICE	Office (>250 square feet)	0.6	386	231.6	No	No
215 - PRODUCT LIBRARY / BLUEPRINT STORAGE	Commercial Industrial Storage Area	0.4	549	219.6	No	No
216 - CONFERENCE	Conference, Multipurpose and Meeting Area	0.75	517	387.75	No	No
222 - SHARED OFFICE	Office (>250 square feet)	0.6	385	231	No	No
224 - WELLNESS CENTER	Exercise Center Gymnasium	0.5	528	264	No	No
225 - CENTRAL PLAN STORAGE	Commercial Industrial Storage Area	0.4	1,112	444.8	No	No
229 - HALLWAY	Corridor	0.4	1,221	488.4	No	No
231 - JAN. / CLOS.	Commercial Industrial Storage Area	0.4	84	33.6	No	No
233 - MENS LOCKER	Locker/Dressing Room	0.45	634	285.3	No	No
237 - WOMENS LOCKER	Locker/Dressing Room	0.45	463	208.35	No	No
239 - BREAKROOM	Kitchen/ Food Preparation	0.95	495	470.25	No	No
249 - SHARED OPERATIONAL OFFICE	Office (>250 square feet)	0.6	264	158.4	No	No
251 - MDF	Electrical Mechancial Telephone Room	0.4	318	127.2	No	No

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/23/25
25-0655
Approval of this plan does not authorize or approve any omission or deviation from applicable requirements. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

ECOM ENGINEERING
1455 RESPONSE ROAD, SUITE 140
SACRAMENTO, CA, 95815
916.641.5600
916.641.1640 FAX
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JOB NO. 24-S139.00 PM. JM
DESIGNERS ECOM
DRAWN BY ECOM

Dewberry®
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CALIFORNIA DEPARTMENT OF GENERAL SERVICES
CENTRAL UTILITY PLANT
ATS AND ELECTRICAL REPAIRS
625 Q STREET
SACRAMENTO, CA 95814
SCHEMATIC DESIGN

SEAL
REGISTERED PROFESSIONAL ENGINEER
BENJAMIN SCHLENKER
No. E 021982
Exp. 9/30/25
ELECTRICAL
STATE OF CALIFORNIA
01/27/2025

SCALE
1" = 20'-0"

No.	Description	Date

REVISIONS

DRAWN BY	ECOM
APPROVED BY	BH
CHECKED BY	BH
DATE	JANUARY 27, 2025

TITLE
TITLE 24 COMPLIANCE FORMS

PROJECT NO. 50171906

E0.02
SHEET NO.

ISSUE DATE: AUGUST 22, 2025
V2

3/1/2024 10:47:39 AM

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

254 - CONTROL ROOM	General Commercial Industrial Work Area Precision	0.85	838	712.3	No	No
257 - SHARED OFFICE	Office (>250 square feet)	0.6	639	383.4	No	No
		TOTALS:	10,250	5,694.2	See Tables J, or P for detail	
Unconditioned Spaces						
01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft^2)	Area (ft^2)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
103 - ELEVATOR EQUIPMENT ROOM	Electrical Mechancial Telephone Room	0.4	104	41.6	No	No
110 - ELECTRICAL ROOM	Electrical Mechancial Telephone Room	0.4	7,632	3,052.8	No	No
111 - CLOSET	Commercial Industrial Storage Area	0.4	115	46	No	No
113 - UPS/BATTERY ROOM	Electrical Mechancial Telephone Room	0.4	353	141.2	No	No
130 - ELECTRICAL WORKROOM	General Commercial Industrial Work Area Precision	0.85	359	305.15	No	No
132 - STAIR 2	Stairwell	0.6	235	141	No	No
135 - CENTRAL PLANT STORAGE	Commercial Industrial Storage Area	0.4	1,436	574.4	No	No
139 - HEAVY EQUIPMENT STORAGE	Commercial Industrial Storage Area	0.4	900	360	No	No
140 - CHILLER ROOM / STAGING AREA	General Commercial Industrial Work Area Precision	0.85	14,651	12,453.35	No	No
141 - LOADING DOCK	Commercial Industrial Storage Shipping	0.6	1,002	601.2	No	No
143 - HAZARDOUS MATERIAL STORAGE	Commercial Industrial Storage Area	0.4	671	268.4	No	No
147 - CORRIDOR	Corridor	0.4	325	130	No	No
149 - STAIR 3	Stairwell	0.6	264	158.4	No	No
151 - JAN CLOSET	Commercial Industrial Storage Area	0.4	126	50.4	No	No
152 - CORRIDOR	Corridor	0.4	108	43.2	No	No
153 - MAINTENANCE SHOP	General Commercial Industrial Work Area Precision	0.85	1,918	1,630.3	No	No

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

170 - BOILER ROOM	General Commercial Industrial Work Area Precision	0.85	8,884	7,551.4	No	No
230 - AISLE	Corridor	0.4	362	144.8	No	No
232 - STAIR 2	Stairwell	0.6	272	163.2	No	No
245 - CENTRAL PLAN STORAGE	Commercial Industrial Storage Area	0.4	2,379	951.6	No	No
247 - STAIR 3	Stairwell	0.6	294	176.4	No	No
248 - HYDROLIC PUMP	General Commercial Industrial Work Area Precision	0.85	13,089	11,125.65	No	No
250 - AISLE	Corridor	0.4	1,667	666.8	No	No
255 - CENTRAL PLANT STORAGE	Commercial Industrial Storage Area	0.4	304	121.6	No	No
270 - BOILER EQUIPMENT	General Commercial Industrial Work Area Precision	0.85	9,248	7,860.8	No	No
		TOTALS:	66,698	48,759.65	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

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N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: DGS CUP - Electrical Repair Scope	**Report Page:** (Page 13 of 16)
	Date Prepared: 2025-01-27T11:33:52-05:00

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Form/Title	Systems/Spaces To Be Field Verified
	101 - LOBBY; 111 - CLOSET; 130 - ELECTRICAL WORKROOM; 131 - CORRIDOR; 132 - STAIR 2; 133 - MEN'S TOILET; 135 - CENTRAL PLANT STORAGE; 137 - WOMEN'S TOILET; 139 - HEAVY EQUIPMENT STORAGE; 141 - LOADING DOCK; 143 - HAZARDOUS MATERIAL STORAGE; 147 - CORRIDOR; 149 - STAIR 3; 151 - JAN CLOSET; 152 - CORRIDOR; 153 - MAINTENANCE SHOP; 205 - STORAGE; 212 - OFFICE; 213 - COPY / FILE; 214 - SHARED OFFICE; 215 - PRODUCT LIBRARY / BLUEPRINT

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: DGS CUP - Electrical Repair Scope	**Report Page:** (Page 14 of 16)
	Date Prepared: 2025-01-27T11:33:52-05:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	STORAGE; 216 - CONFERENCE; 222 - SHARED OFFICE; 224 - WELLNESS CENTER; 225 - CENTRAL PLAN STORAGE; 229 - HALLWAY; 230 - AISLE; 231 - JAN. / CLOS.; 232 - STAIR 2; 233 - MENS LOCKER; 237 - WOMENS LOCKER; 239 - BREAKROOM; 245 - CENTRAL PLAN STORAGE; 247 - STAIR 3; 248 - HYDROLIC PUMP; 249 - SHARED OPERATIONAL OFFICE; 250 - AISLE; 251 - MDF; 254 - CONTROL ROOM; 255 - CENTRAL PLANT STORAGE; 257 - SHARED OFFICE
	101 - LOBBY; 103 - ELEVATOR EQUIPMENT ROOM; 110 - ELECTRICAL ROOM; 111 - CLOSET; 130 - ELECTRICAL WORKROOM; 131 - CORRIDOR; 132 - STAIR 2; 133 - MEN'S TOILET; 135 - CENTRAL PLANT STORAGE; 137 - WOMEN'S TOILET; 139 - HEAVY EQUIPMENT STORAGE; 140 - CHILLER ROOM / STAGING AREA; 141 - LOADING DOCK; 143 - HAZARDOUS MATERIAL STORAGE; 147 - CORRIDOR; 149 - STAIR 3; 151 - JAN

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: DGS CUP - Electrical Repair Scope	**Report Page:** (Page 15 of 16)
	Date Prepared: 2025-01-27T11:33:52-05:00

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	CLOSET; 152 - CORRIDOR; 153 - MAINTENANCE SHOP; 170 - BOILER ROOM; 205 - STORAGE; 212 - OFFICE; 213 - COPY / FILE; 214 - SHARED OFFICE; 215 - PRODUCT LIBRARY / BLUEPRINT STORAGE; 216 - CONFERENCE; 222 - SHARED OFFICE; 224 - WELLNESS CENTER; 225 - CENTRAL PLAN STORAGE; 229 - HALLWAY; 230 - AISLE; 231 - JAN. / CLOS.; 232 - STAIR 2; 233 - MENS LOCKER; 237 - WOMENS LOCKER; 239 - BREAKROOM; 245 - CENTRAL PLAN STORAGE; 247 - STAIR 3; 248 - HYDROLIC PUMP; 249 - SHARED OPERATIONAL OFFICE; 250 - AISLE; 251 - MDF; 254 - CONTROL ROOM; 255 - CENTRAL PLANT STORAGE; 257 - SHARED OFFICE; 270 - BOILER EQUIPMENT; 113 - UPS/BATTERY ROOM

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: DGS CUP - Electrical Repair Scope	**Report Page:** (Page 16 of 16)
Project Address: 625 Q STREET, SACRAMENTO, CALIFORNIA 95814	**Date Prepared:** 2025-01-27T11:33:52-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ben Schlenker	Documentation Author Signature:
Company: ECOM Engineering, Inc.	Signature Date: 01/27/2025
Address: 1455 RESPONSE ROAD, SUITE 140	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: SACRAMENTO , CALIFORNIA 95815	Phone: (916) 641-5600

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

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

Responsible Designer Name:	Responsible Designer Signature:
Company: ECOM Engineering, Inc.	Date Signed: 01/27/2025
Address: 1455 RESPONSE ROAD, SUITE 140	License: E 021982
City/State/Zip: SACRAMENTO , CALIFORNIA 95815	Phone: (916) 641-5600

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25-0655
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ECOM ENGINEERING
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WWW.ECOMENG.COM

JOB NO. 24-S139.00 PM. JM
DESIGNERS ECOM
DRAWN BY ECOM

Dewberry
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CALIFORNIA DEPARTMENT OF GENERAL SERVICES
CENTRAL UTILITY PLANT
ATS AND ELECTRICAL REPAIRS
625 Q STREET
SACRAMENTO, CA 95814
SCHEMATIC DESIGN

SEAL
REGISTERED PROFESSIONAL ENGINEER
BENJAMIN SCHLENKER
No. E 021982
Exp. 9/30/25
ELECTRICAL
STATE OF CALIFORNIA
01/27/2025

SCALE
1" = 20'-0"

No.	Description	Date

REVISIONS

DRAWN BY	ECOM
APPROVED BY	BH
CHECKED BY	BH
DATE	JANUARY 27, 2025

TITLE
TITLE 24 COMPLIANCE FORMS

PROJECT NO. 50171906

E0.03
SHEET NO.

ISSUE DATE: AUGUST 22, 2025
V2

3/1/2024 10:47:39 AM

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.
3. 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

Indoor Lighting Mandatory Measures:
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: • AISLE WAYS AND OPEN AREAS IN WAREHOUSES • LIBRARY BOOK STACK AISLES • CORRIDORS AND STAIRWELLS • OFFICES GREATER THAN 250 SQ. FT.
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 SECTION. 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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SCALE
1" = 20'-0"

No.	Description	Date

REVISIONS

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APPROVED BY	BH
CHECKED BY	BH
DATE	JANUARY 27, 2025

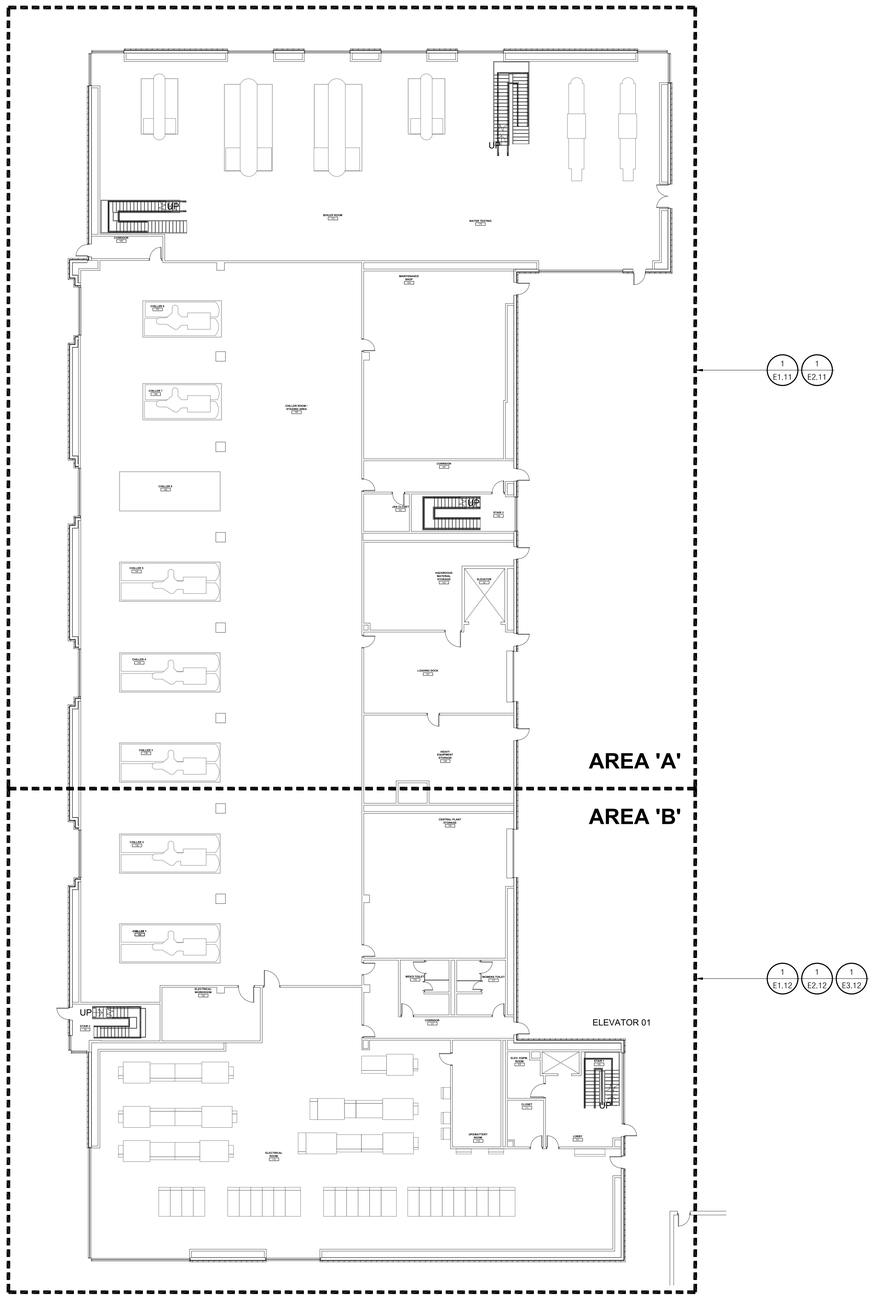
TITLE
TITLE 24 COMPLIANCE FORMS

PROJECT NO. 50171906

E0.04
SHEET NO.

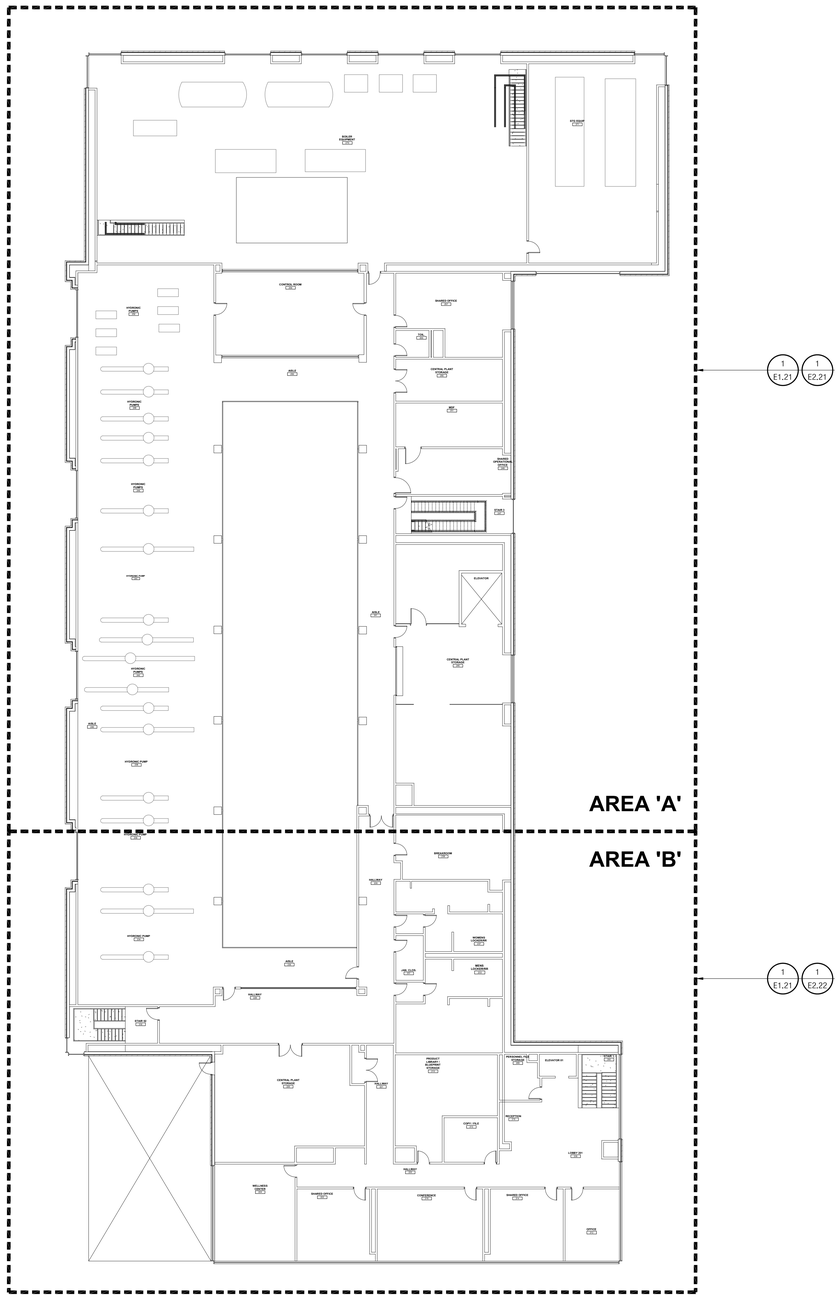
ISSUE DATE: AUGUST 22, 2025
V2

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1 OVERALL LEVEL 01 AREA A & B PLAN

1/16" = 1'



1 OVERALL LEVEL 02 AREA A & B PLAN

1/16" = 1'

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TITLE

OVERALL FLOOR PLAN - LEVEL 01 & 02

PROJECT NO. 50171906

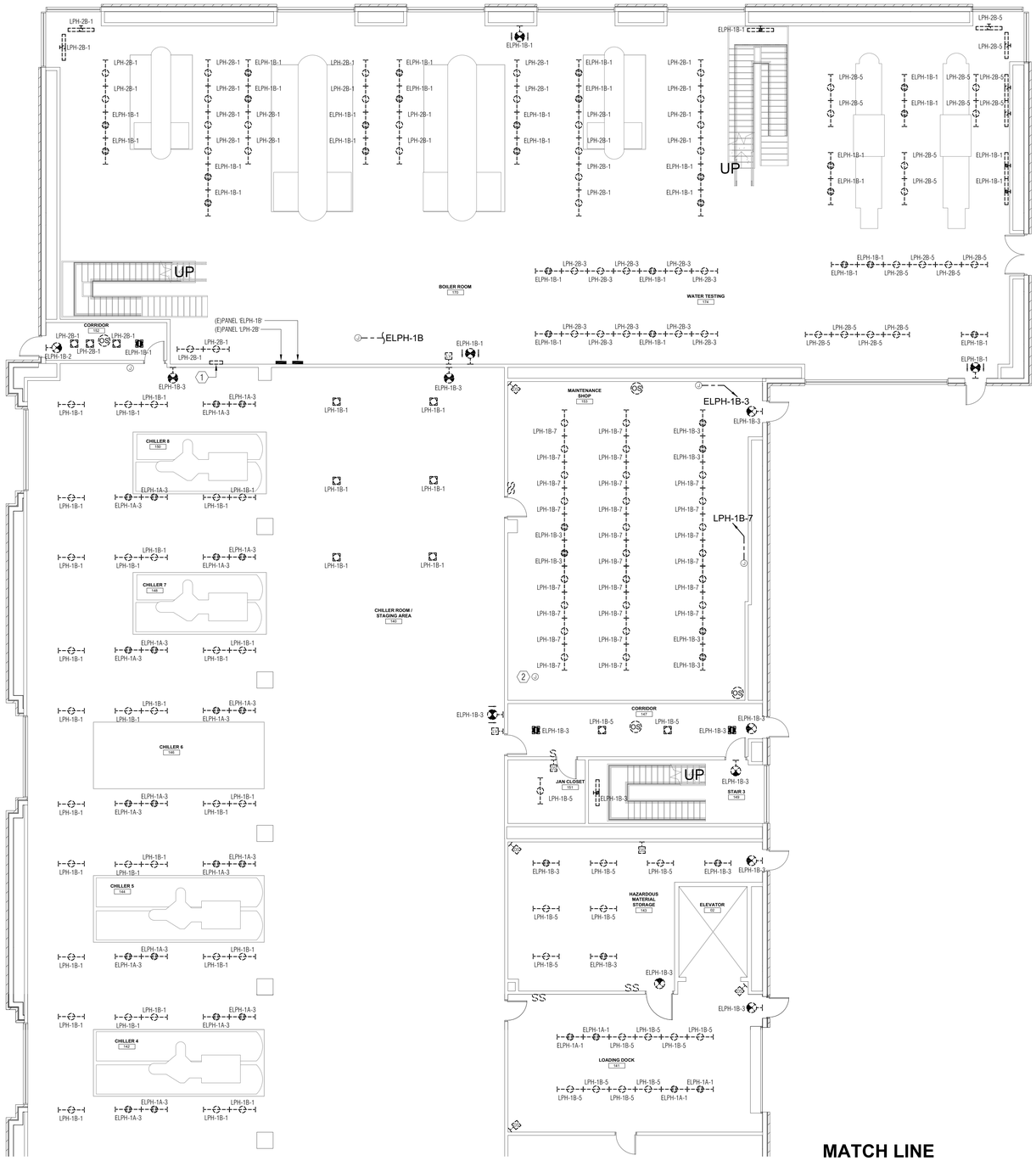
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SHEET NO.

ISSUE DATE: AUGUST 22, 2025

V2

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SHEET NOTES

1. TYPICAL UNLESS OTHERWISE NOTED, EXISTING LIGHT FIXTURES, SWITCHES, DEVICES ETC. SHOWN SOLID ARE EXISTING TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
2. TYPICAL UNLESS OTHERWISE NOTED, EXISTING LIGHT FIXTURES, SWITCHES, DEVICES, ETC. SHOWN DASHED SHALL BE REMOVED, INCLUDING OUTLET BOX, CONDUIT AND WIRE.
3. BRANCH CIRCUITS REMOVED IN THERE ENTIRETY SHALL BE LABELED AS SPARE AND PLACED IN THE 'OFF' POSITION.
4. CIRCUIT NUMBERS SHOWN ON PLANS ARE TAKEN FROM AS-BUILT DRAWINGS AND MAY NOT BE AS INSTALLED IN THE FIELD. CONTRACTOR SHALL FIELD VERIFY CIRCUITS PRIOR TO COMMENCEMENT OF WORK.

NUMBERED NOTES

1. EXISTING LIGHTING RELAY CABINET, LRC-2B TO BE REMOVED.
2. TO WELDING SHOP LIGHTING CONTROL.
3. EXISTING LIGHTING RELAY CABINET, LRC-2A TO BE REMOVED.

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SCALE
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No.	Description	Date

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DATE	JANUARY 27, 2025

TITLE
LEVEL 01 AREA A RCP PLAN - DEMO LIGHTING

PROJECT NO. 50171906

E1.11
SHEET NO.

ISSUE DATE: AUGUST 22, 2025
V2

1 LEVEL 01 AREA A RCP PLAN - DEMO LIGHTING
1/8" = 1'

NORTH

3/1/2024 10:47:39 AM

SHEET NOTES

1. TYPICAL UNLESS OTHERWISE NOTED, EXISTING LIGHT FIXTURES, SWITCHES, DEVICES ETC. SHOWN SOLID ARE EXISTING TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
2. TYPICAL UNLESS OTHERWISE NOTED, EXISTING LIGHT FIXTURES, SWITCHES, DEVICES, ETC. SHOWN DASHED SHALL BE REMOVED, INCLUDING OUTLET BOX, CONDUIT AND WIRE.
3. BRANCH CIRCUITS REMOVED IN THERE ENTIRETY SHALL BE LABELED AS SPARE AND PLACED IN THE 'OFF' POSITION.
4. CIRCUIT NUMBERS SHOWN ON PLANS ARE TAKEN FROM AS-BUILT DRAWINGS AND MAY NOT BE AS INSTALLED IN THE FIELD. CONTRACTOR SHALL FIELD VERIFY CIRCUITS PRIOR TO COMMENCEMENT OF WORK.

NUMBERED NOTES

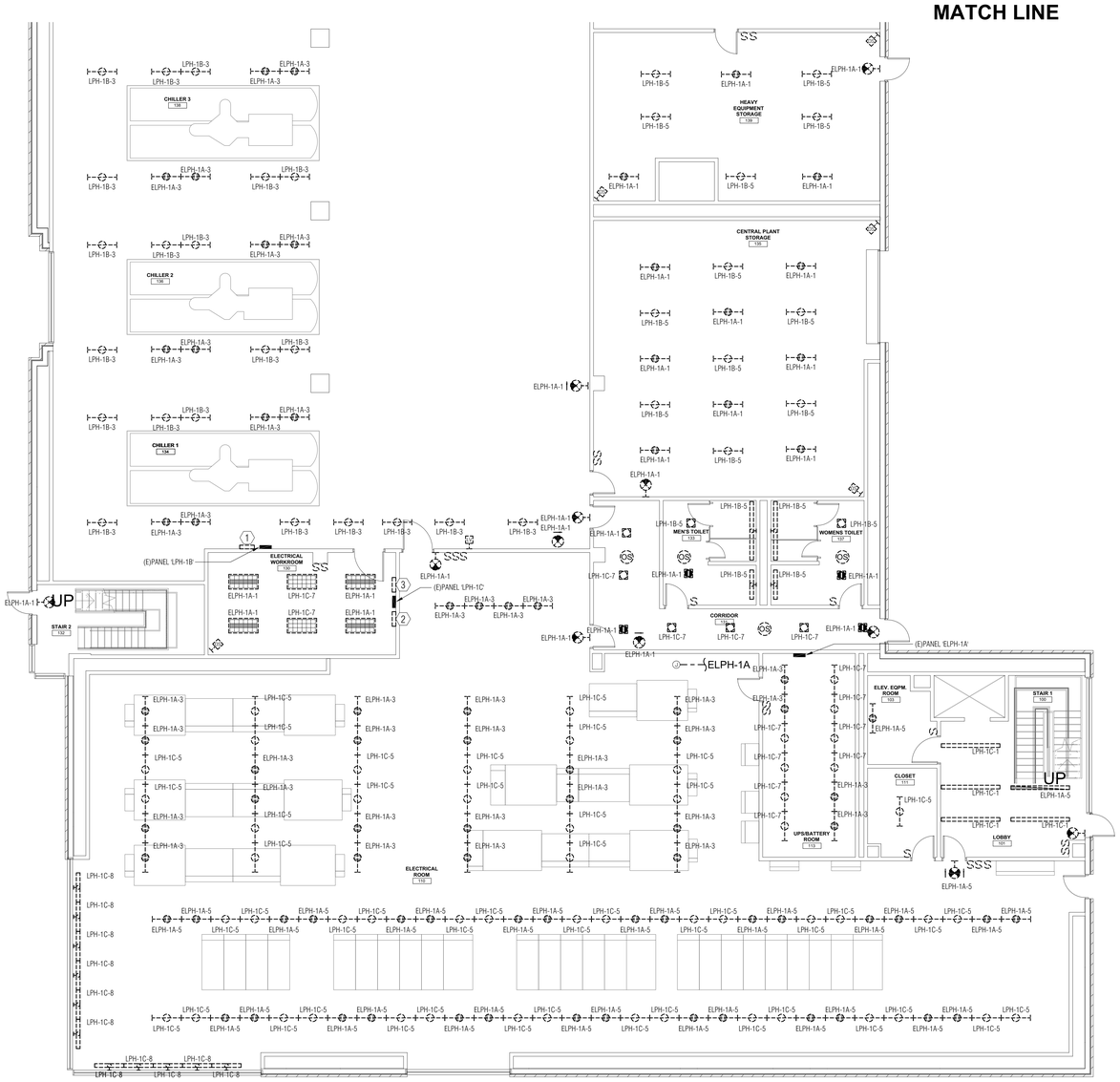
(1) EXISTING LIGHTING RELAY CABINET 'LRC-1B' TO BE REMOVED.

(2) EXISTING LIGHTING RELAY CABINET 'LRC-1C' TO BE REMOVED.

(3) EXISTING LIGHTING CONTROL CABINET 'LPH-1C' TO BE REMOVED.

SHEET E1.11

MATCH LINE



1 **LEVEL 01 AREA B RCP PLAN - DEMO LIGHTING**

1/8" = 1'

NORTH

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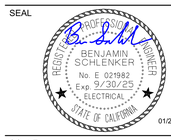
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SCHEMATIC DESIGN

SEAL



01/27/2025

SCALE

1" = 20'-0"

No.	Description	Date

REVISIONS

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DATE	JANUARY 27, 2025

TITLE

LEVEL 01 AREA B RCP PLAN - DEMO LIGHTING

PROJECT NO. 50171906

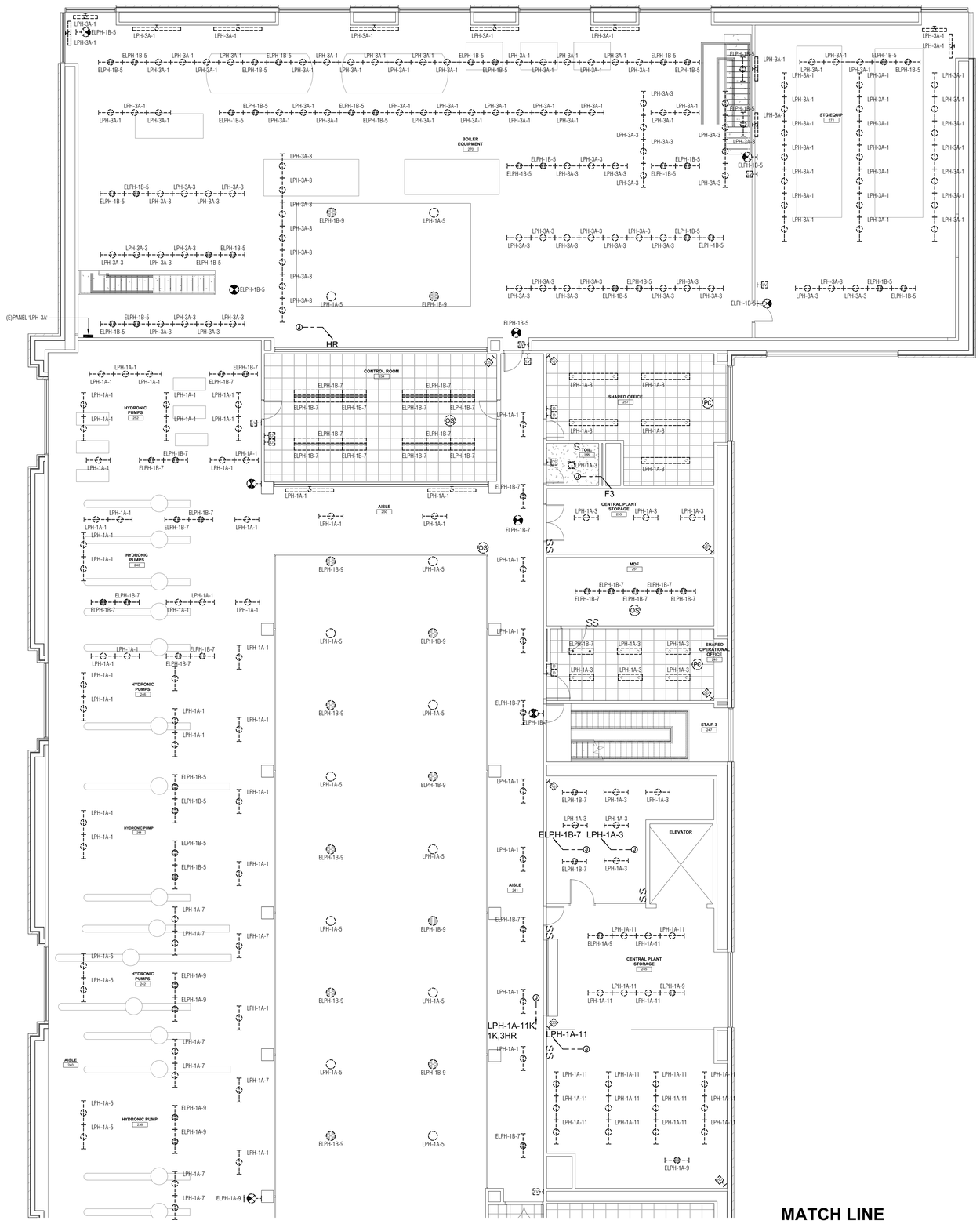
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SHEET NO.

ISSUE DATE: AUGUST 22, 2025

V2

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MATCH LINE

SHEET E1.22

1 LEVEL 02 AREA A RCP PLAN - DEMO LIGHTING

1/8" = 1'

NORTH

SHEET NOTES

1. TYPICAL UNLESS OTHERWISE NOTED, EXISTING LIGHT FIXTURES, SWITCHES, DEVICES ETC. SHOWN SOLID ARE EXISTING TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
2. TYPICAL UNLESS OTHERWISE NOTED, EXISTING LIGHT FIXTURES, SWITCHES, DEVICES, ETC. SHOWN DASHED SHALL BE REMOVED, INCLUDING OUTLET BOX, CONDUIT AND WIRE.
3. BRANCH CIRCUITS REMOVED IN THERE ENTIRETY SHALL BE LABELED AS SPARE AND PLACED IN THE 'OFF' POSITION.
4. CIRCUIT NUMBERS SHOWN ON PLANS ARE TAKEN FROM AS-BUILT DRAWINGS AND MAY NOT BE AS INSTALLED IN THE FIELD. CONTRACTOR SHALL FIELD VERIFY CIRCUITS PRIOR TO COMMENCEMENT OF WORK.

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CALIFORNIA DEPARTMENT OF GENERAL SERVICES

CENTRAL UTILITY PLANT

ATS AND ELECTRICAL REPAIRS
625 Q STREET
SACRAMENTO, CA 95814
SCHEMATIC DESIGN

SEAL

REGISTERED PROFESSIONAL ENGINEER
BENJAMIN SCHLENKER
No. E 021982
Exp 9/30/25
ELECTRICAL
STATE OF CALIFORNIA
01/27/2025

SCALE

1" = 20'-0"

No.	Description	Date

REVISIONS

DRAWN BY	ECOM
APPROVED BY	BH
CHECKED BY	BH
DATE	JANUARY 27, 2025

TITLE

LEVEL 02 AREA A RCP PLAN - DEMO LIGHTING

PROJECT NO. 50171906

E1.21

SHEET NO.

ISSUE DATE: AUGUST 22, 2025

V2

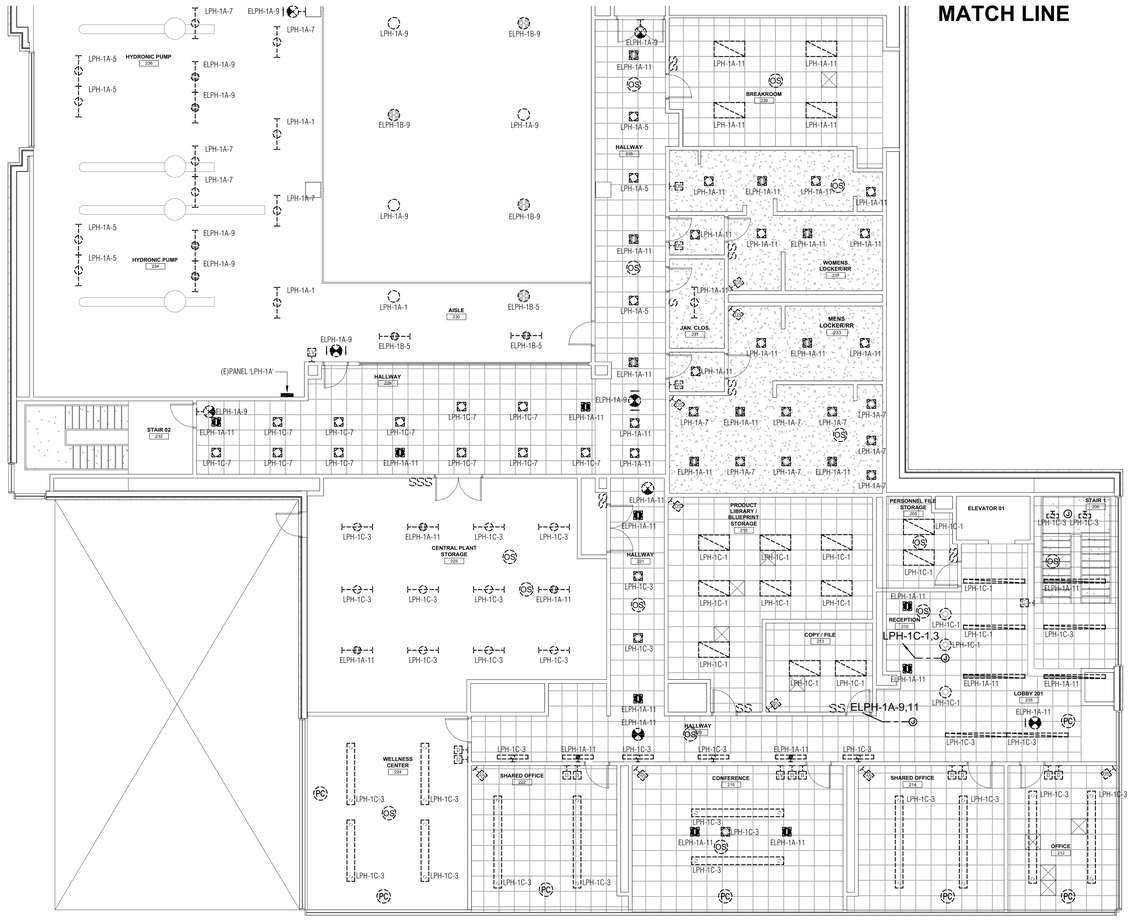
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SHEET NOTES

1. TYPICAL UNLESS OTHERWISE NOTED, EXISTING LIGHT FIXTURES, SWITCHES, DEVICES ETC. SHOWN SOLID ARE EXISTING TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
2. TYPICAL UNLESS OTHERWISE NOTED, EXISTING LIGHT FIXTURES, SWITCHES, DEVICES, ETC. SHOWN DASHED SHALL BE REMOVED, INCLUDING OUTLET BOX, CONDUIT AND WIRE.
3. BRANCH CIRCUITS REMOVED IN THERE ENTIRETY SHALL BE LABELED AS SPARE AND PLACED IN THE 'OFF' POSITION.
4. CIRCUIT NUMBERS SHOWN ON PLANS ARE TAKEN FROM AS-BUILT DRAWINGS AND MAY NOT BE AS INSTALLED IN THE FIELD. CONTRACTOR SHALL FIELD VERIFY CIRCUITS PRIOR TO COMMENCEMENT OF WORK.

SHEET E1.21

MATCH LINE



1 **LEVEL 02 AREA B RCP PLAN - DEMO LIGHTING**

1/8" = 1'

NORTH

3/1/2024 10:47:39 AM

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ECOM ENGINEERING
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WWW.ECOMENG.COM

JOB NO. 24-S139.00 PM JM
DESIGNERS ECOM
DRAWN BY ECOM

Dewberry
Dewberry Architects, Inc.
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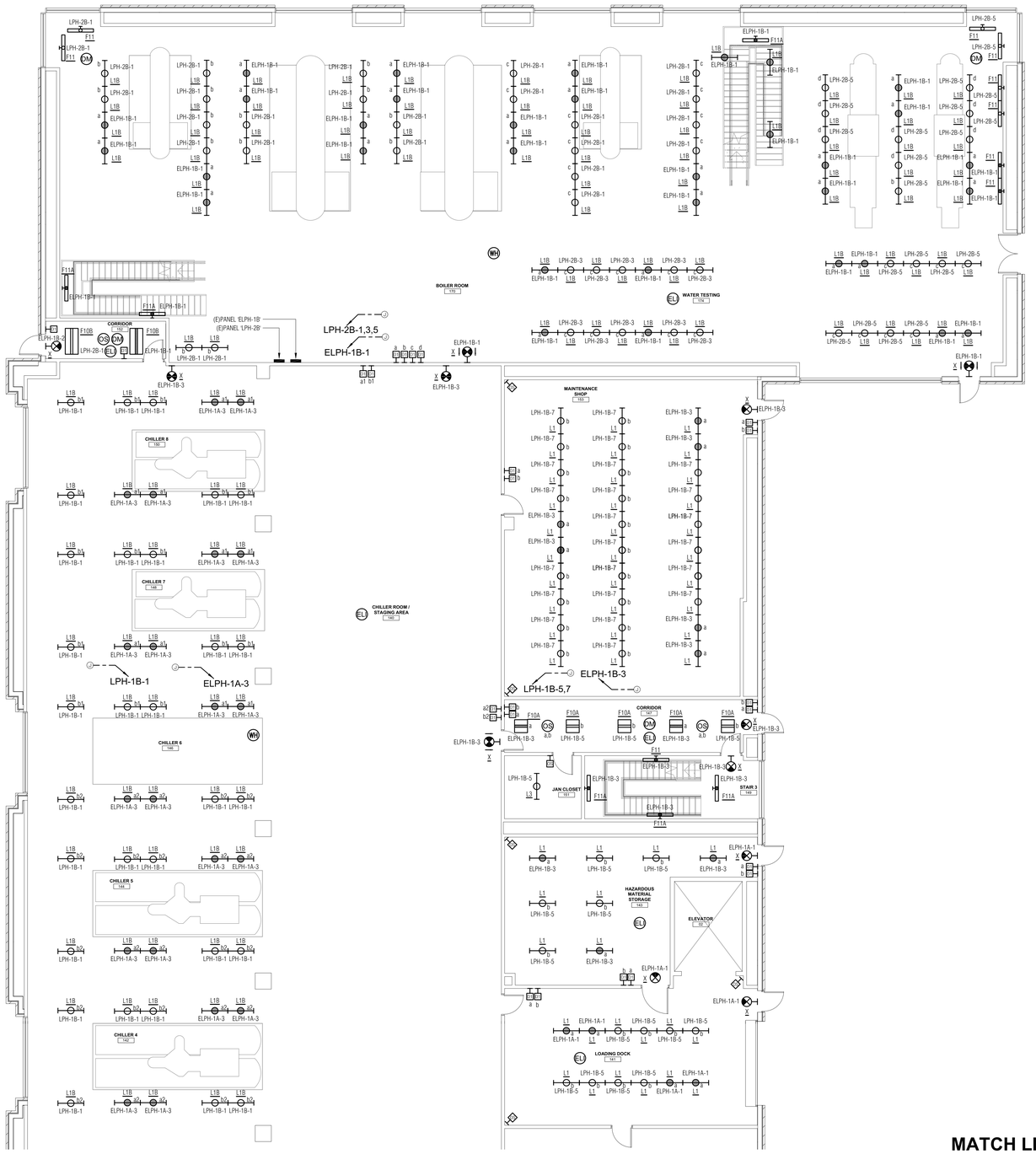
PROJECT NO. 50171906

E1.22

SHEET NO.

ISSUE DATE: AUGUST 22, 2025

V2



MATCH LINE

SHEET E2.12

1 LEVEL 01 AREA A RCP PLAN - LIGHTING

1/8" = 1'

NORTH

SHEET LIGHTING NOTES

1. ALL IDENTIFIED SWITCHED EMERGENCY FOR ALL NEW AND EXISTING PANELBOARDS IDENTIFYING CIRCUIT SPECIFIC PURPOSE, LOCATION AND ROOM NUMBER(S) MEETING THE REQUIREMENTS OF CEC SECTION 408.4.
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4. COORDINATED MOUNTING OF ALL EXIT SIGNS WITH ARCHITECTURAL ELEVATIONS AND LAYOUT.
5. REFER TO SHEET E001 FOR LIGHT FIXTURE SCHEDULE AND LIGHTING CONTROL SEQUENCE OF OPERATION.
6. CEILING MOUNT OCCUPANCY SENSOR LOCATIONS ARE SHOWN FOR DESIGN INTENT ONLY. COORDINATE EXACT LOCATIONS WITH VENDOR SHOP DRAWINGS, MECHANICAL DIFFUSERS, AND MANUFACTURERS RECOMMENDATIONS.
7. PROVIDE 277V LINE VOLTAGE TO LIGHT FIXTURES AND HUB CONTROLLER.
8. WALL LIGHTING CONTROLS ARE WIRELESS AND NETWORK WITH HUBS. BATTERY INCLUDED WITH WIRELESS WALL LIGHTING CONTROLS.
9. LIGHTING NETWORK AND CONNECTIONS TO BUILDING MANAGEMENT SYSTEMS SHALL BE COORDINATED WITH BUILDING PERSONALE/MANAGEMENT.
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12. WINDOW SURFACE MOUNTED LIGHT FIXTURES TO INCLUDE 0-10V DIMMING MODULE FOR TIMECLOCK SCHEDULING.

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LEVEL 01 AREA A RCP PLAN - LIGHTING

PROJECT NO. 50171906

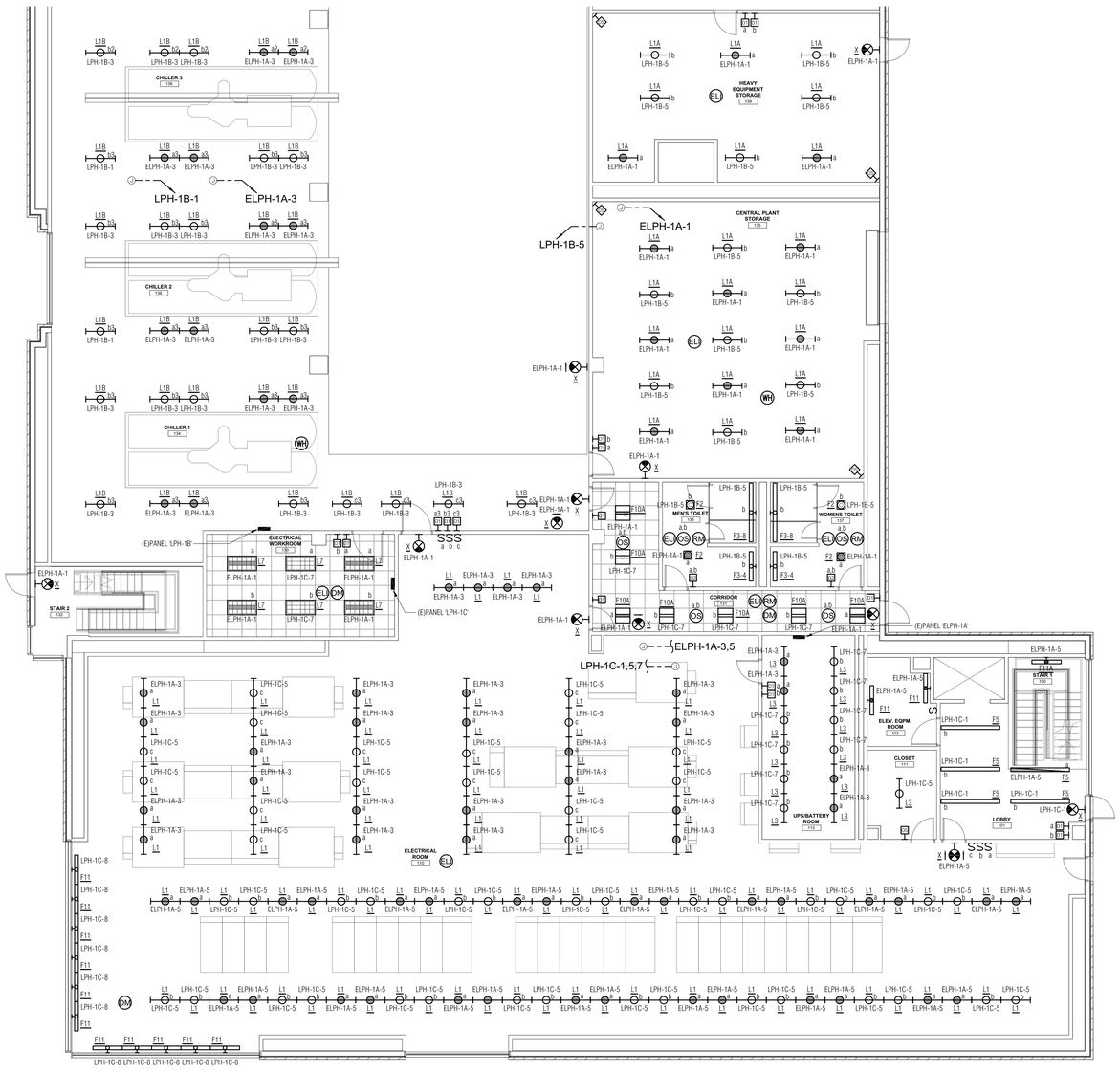
E2.11
SHEET NO.

ISSUE DATE: AUGUST 22, 2025 V2

3/1/2024 10:47:39 AM

SHEET E2.11

MATCH LINE



SHEET LIGHTING NOTES

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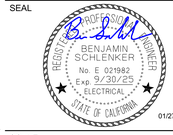
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SEAL



01/27/2025

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TITLE

LEVEL 01 AREA B RCP PLAN - LIGHTING

PROJECT NO. 50171906

E2.12

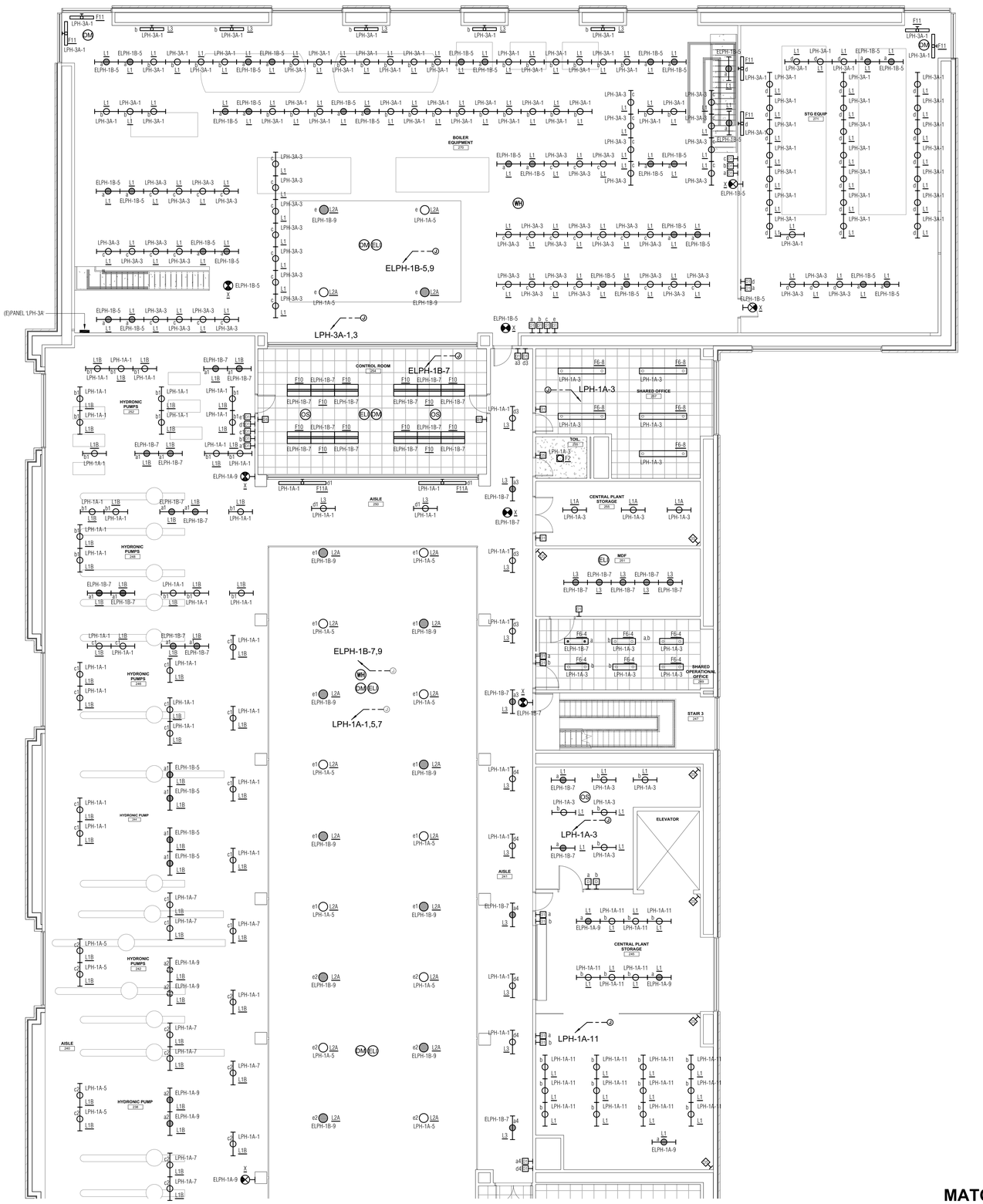
SHEET NO.

ISSUE DATE: AUGUST 22, 2025 V2

1 LEVEL 01 AREA B RCP PLAN - LIGHTING
1/8" = 1'

NORTH

3/1/2024 10:47:39 AM



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MATCH LINE

SHEET E2.22

1 LEVEL 02 AREA A RCP PLAN - LIGHTING

1/8" = 1'

NORTH

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TITLE
LEVEL 02 AREA A RCP PLAN - LIGHTING

PROJECT NO. 50171906

E2.21
SHEET NO.

ISSUE DATE: AUGUST 22, 2025
V2

3/12/2024 10:47:39 AM

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10. PROVIDE UNSWITCHED HOT 277V CONDUCTOR TO ALL EXIT SIGNS.
11. PROVIDE NETWORK CABLES CAT-5E FROM HUB TO IDF ROOM.

NUMBERED NOTES

(1) TYPICAL, LIGHT FIXTURE FURNISHED WITH BUILT-IN PHOTO CELL FOR DAY LIGHT HARVESTING.

SHEET E2.21

MATCH LINE



1 LEVEL 02 AREA B RCP PLAN - LIGHTING

1/8" = 1'

NORTH

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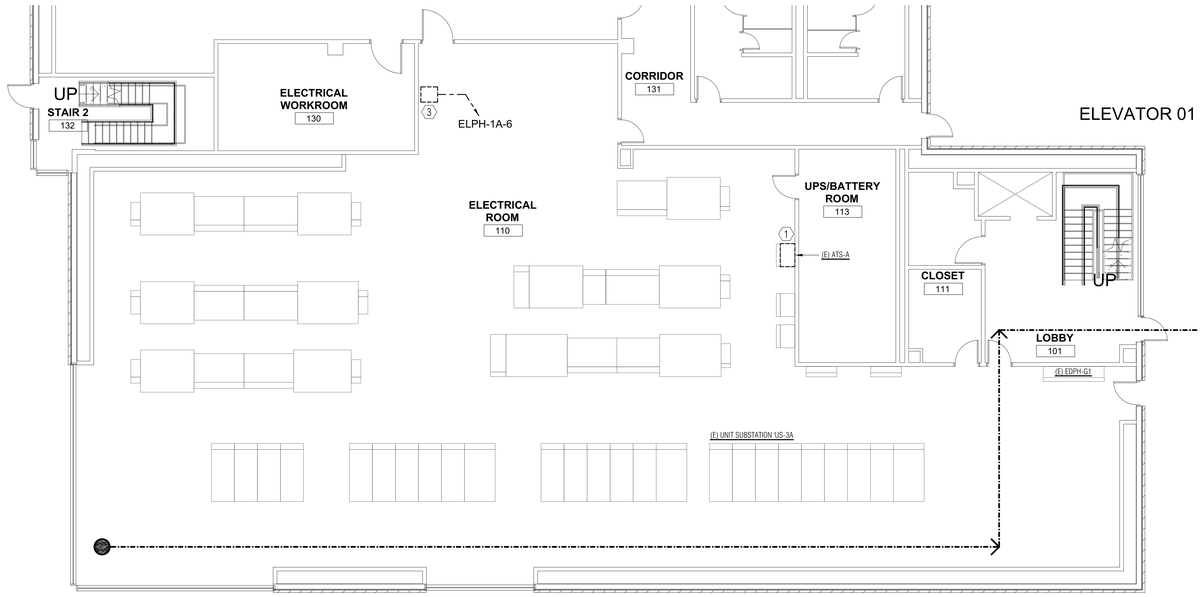
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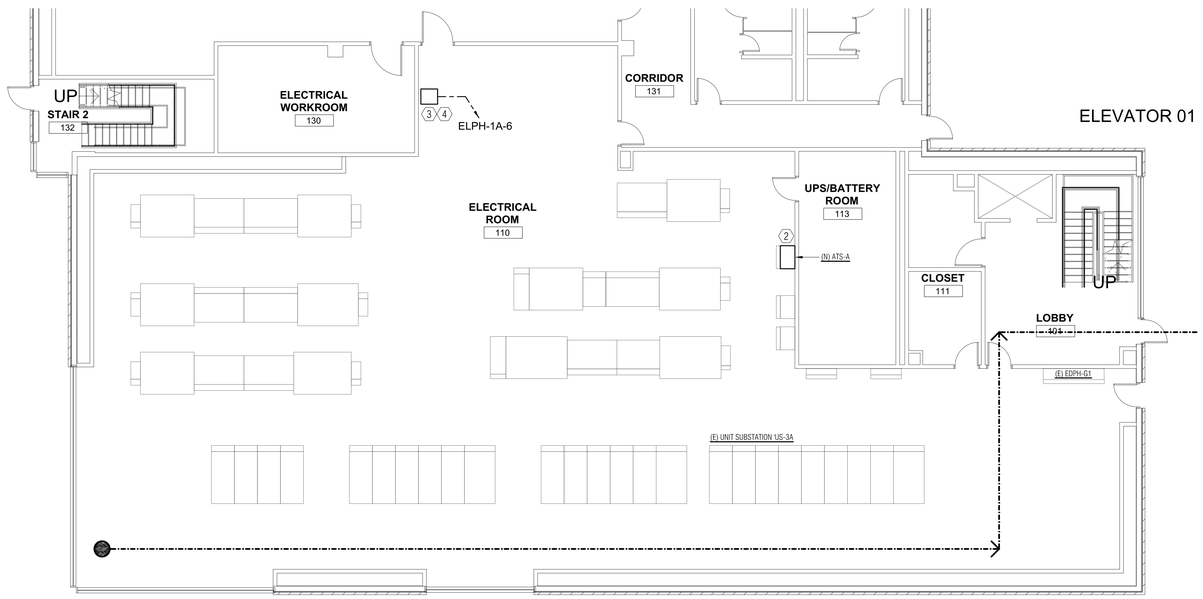
NUMBERED NOTES

1. EXISTING AUTOMATIC TRANSFER SWITCH ATS-A TO BE REPLACE WITH NEW AT THE SAME LOCATION.
2. NEW FLOOR MOUNTED ATS-A. COORDINATE HOUSEKEEPING PAD DIMENSIONS AND MOUNTING WITH STRUCTURAL.
3. EXISTING 277V EXTERIOR EGRESS LIGHTING INVERTER TO BE REPLACE WITH NEW AT THE SAME LOCATION. SEE SHEET E5.00 FOR FURTHER INFORMATION.
4. PROVIDE PERFORMANCE AND FUNCTIONALITY TESTING OF THE NEW LIGHTING INVERTER AND BATTERIES PRIOR TO INSTALLATION. COORDINATE WITH LIGHTING INVERTER MANUFACTURER FOR THE NECESSARY TESTING TO BE PERFORMED.



1 LEVEL 01 AREA B FLOOR PLAN - DEMO POWER

1/8" = 1'



2 LEVEL 01 AREA B FLOOR PLAN - POWER

1/8" = 1'

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LEVEL 01 AREA B FLOOR PLAN - DEMO/NEW POWER

PROJECT NO. 50171906

E3.12

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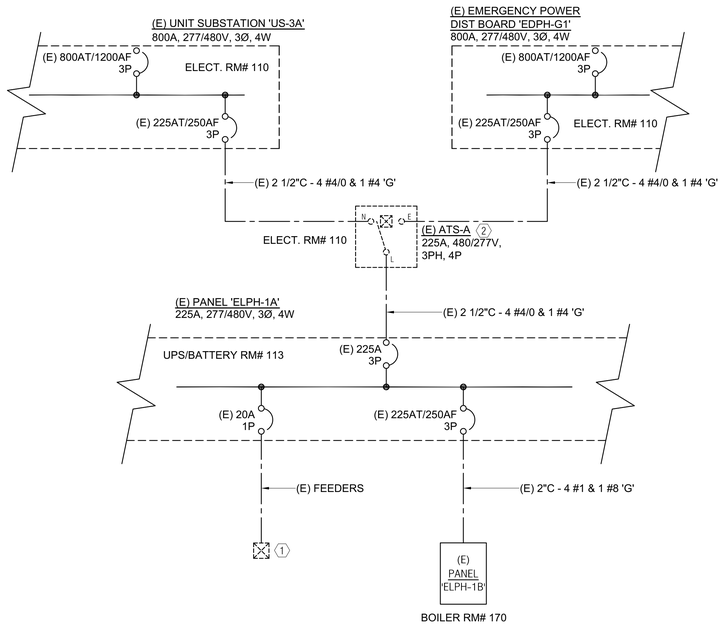
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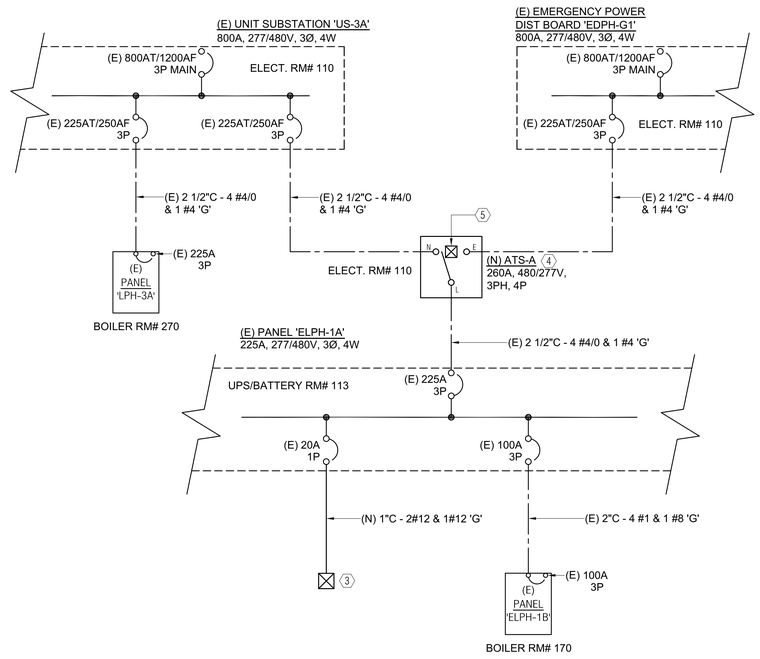
NUMBERED NOTES

1. REMOVE EXISTING LIGHTING INVERTER 277V, 1PH, 1.05KVA. CONDUIT TO REMAIN AND CONDUCTORS TO BE REMOVED ALL THE WAY BACK TO PANEL.
2. EXISTING ATS-A TO BE REPLACED WITH NEW. INTERCEPT EXISTING CONDUITS AND CONDUCTORS.
3. UTILIZE EXISTING CONDUIT AND PROVIDE NEW CONDUCTORS FOR NEW LIGHTING INVERTER, 277V, 1PH, 1.05KVA.
4. PROVIDE NEW ISOLATION BYPASS OPEN TRANSITION ATS-A, 260AMP, 480/277V, 4 POLE.
5. RECONNECT NEW ATS-A GENERATOR CONTROL WIRING (START/STOP) AND ATS STATUS WIRING.



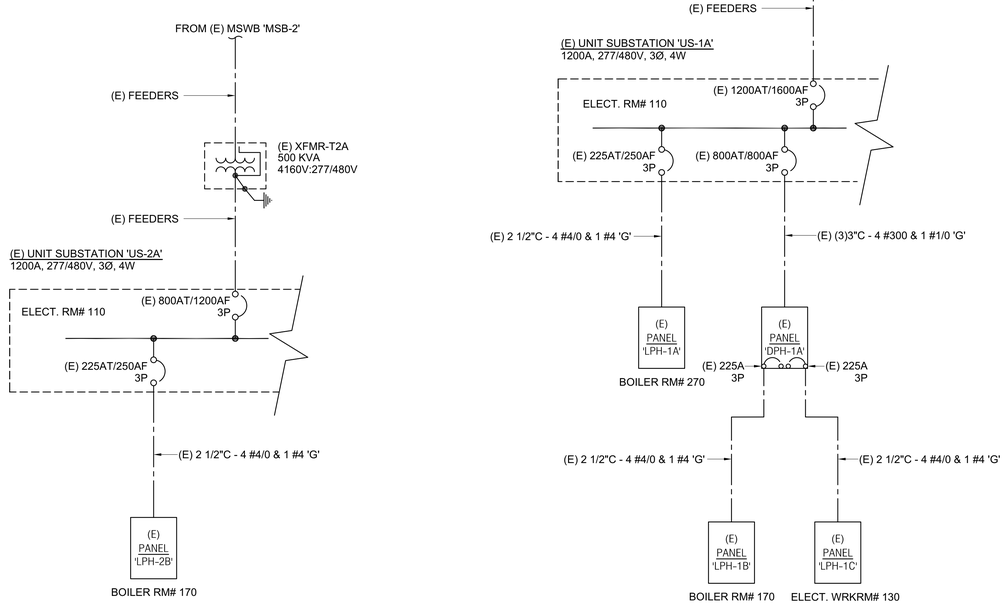
1 PARTIAL ONE-LINE DIAGRAM (LIFE-SAFETY DEMO)

NO SCALE



2 PARTIAL ONE-LINE DIAGRAM (LIFE-SAFETY NEW)

NO SCALE



3 PARTIAL ONE-LINE DIAGRAM (NORMAL)

NO SCALE

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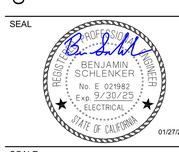
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REVISIONS		

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DATE	JANUARY 27, 2025

TITLE

PARTIAL ONE-LINE DIAGRAM

PROJECT NO. 50171906

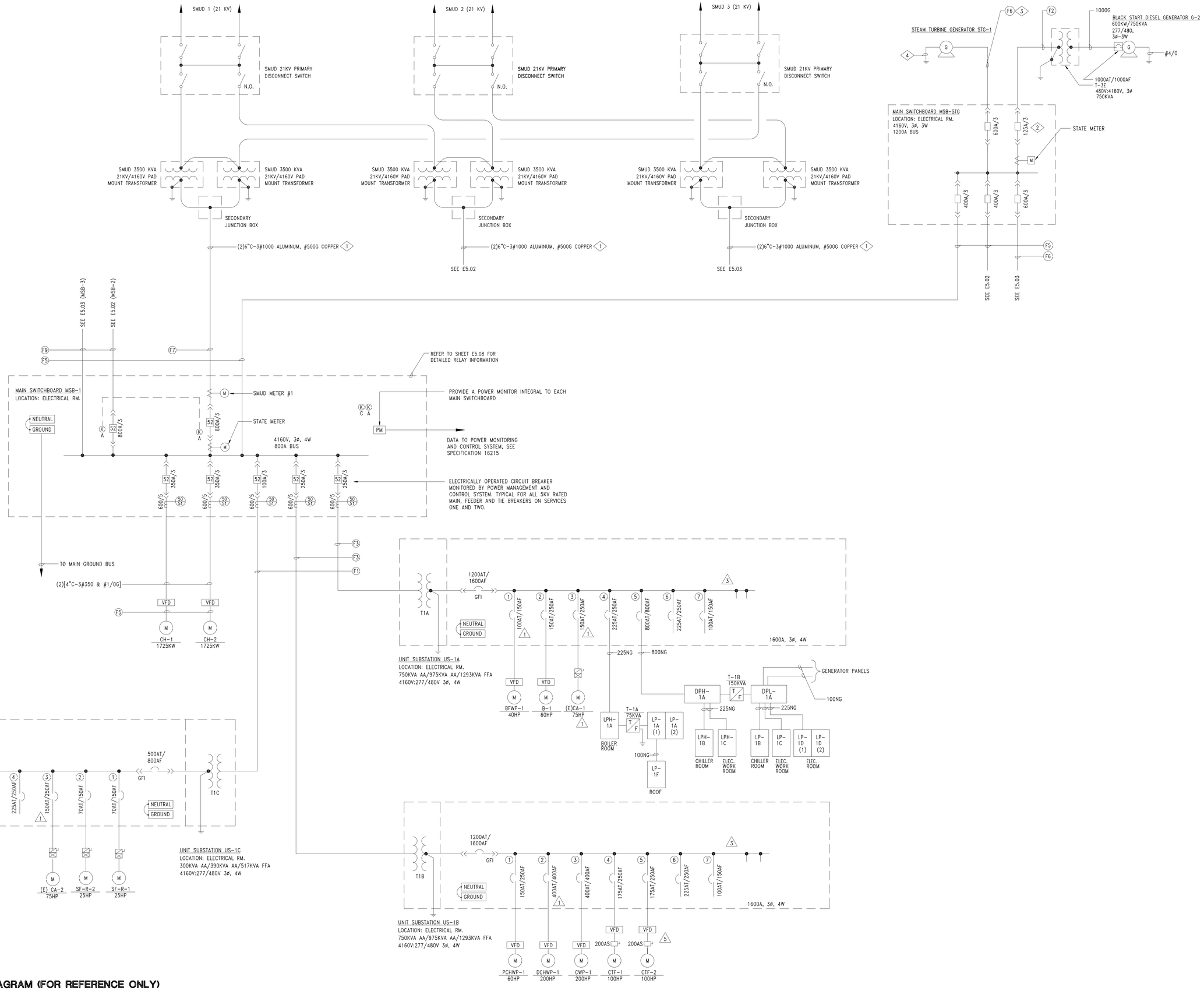
E5.00

SHEET NO.

ISSUE DATE: AUGUST 22, 2025

V2

3/1/2024 10:47:39 AM



1 ONE-LINE DIAGRAM (FOR REFERENCE ONLY)

NO SCALE

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APPROVED FIRE AND PANIC ONLY
06/23/25
25-0655
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ECOM ENGINEERING
1455 RESPONSE ROAD, SUITE 140
SACRAMENTO, CA, 95815
916.641.5600
916.641.1640 FAX
WWW.ECOMENG.COM

JOB NO. 24-S139.00 PM. JM
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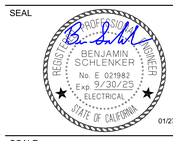
Dewberry
Dewberry Architects, Inc.
301 N Lake Ave
Suite 320
Pasadenaa, CA 91101
916.239.7252 Phone

CALIFORNIA DEPARTMENT OF GENERAL SERVICES

CENTRAL UTILITY PLANT

ATS AND ELECTRICAL REPAIRS
625 Q STREET
SACRAMENTO, CA 95814
SCHEMATIC DESIGN

SEAL



SCALE

1" = 20'-0"

No.	Description	Date

REVISIONS

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DATE	JANUARY 27, 2025

TITLE

ONE-LINE DIAGRAM (FOR REFERENCE ONLY)

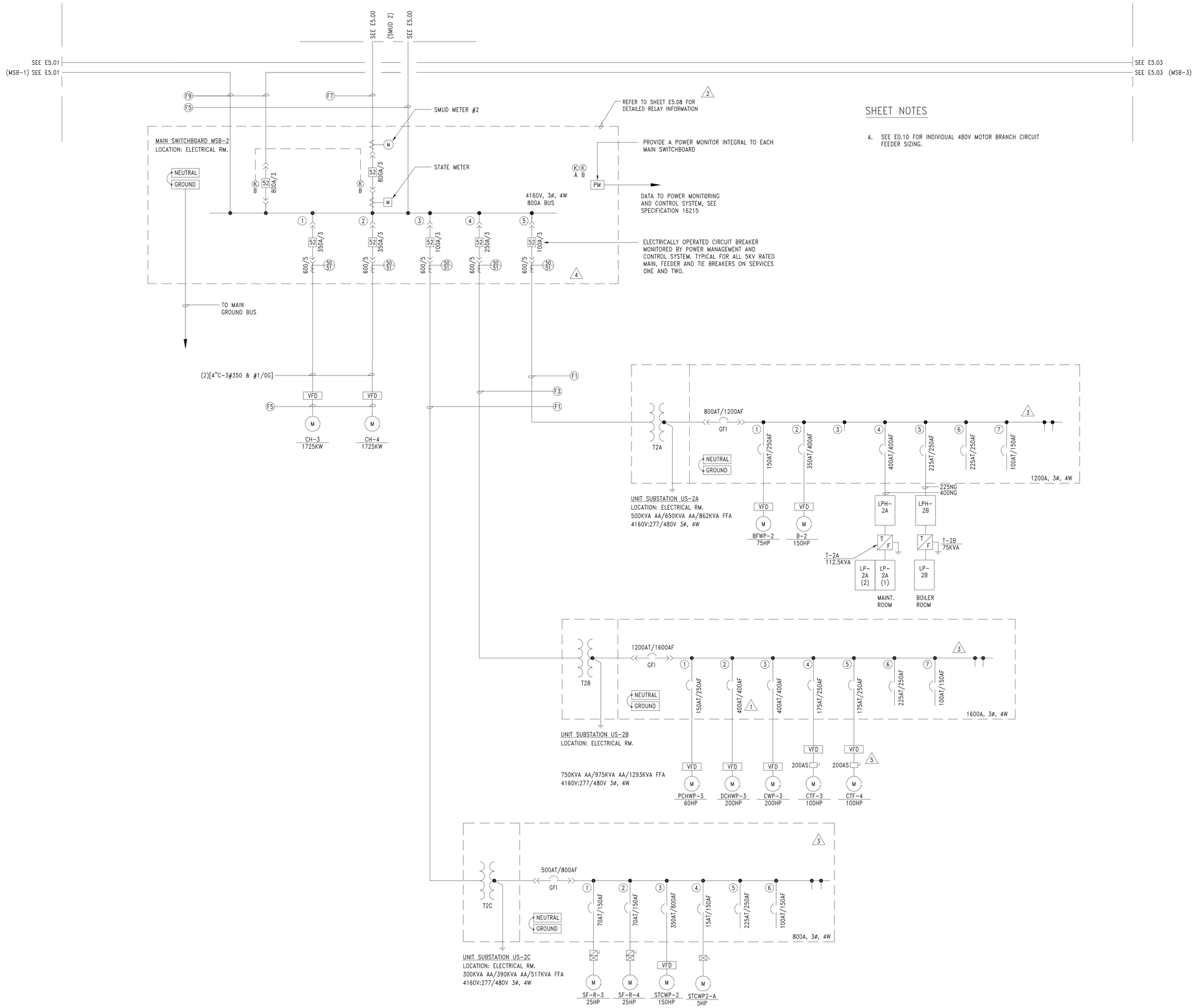
PROJECT NO. 50171906

E5.01

SHEET NO.

ISSUE DATE: AUGUST 22, 2025 V2

3/1/2024 10:47:39 AM



SHEET NOTES

A. SEE E0.10 FOR INDIVIDUAL 480V MOTOR BRANCH CIRCUIT FEEDER SIZING.

1 ONE-LINE DIAGRAM - MSB-2 (FOR REFERENCE ONLY)

NO SCALE

3/1/2024 10:47:39 AM

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CENTRAL UTILITY PLANT

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625 Q STREET
SACRAMENTO, CA 95814
SCHEMATIC DESIGN

SEAL

REGISTERED PROFESSIONAL ENGINEER
BENJAMIN SCHLENKER
No. E 021982
Exp. 9/30/25
ELECTRICAL
STATE OF CALIFORNIA
01/27/2025

SCALE

1" = 20'-0"

No.	Description	Date

REVISIONS

DRAWN BY	ECOM
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DATE	JANUARY 27, 2025

TITLE

ONE-LINE DIAGRAM (FOR REFERENCE ONLY)

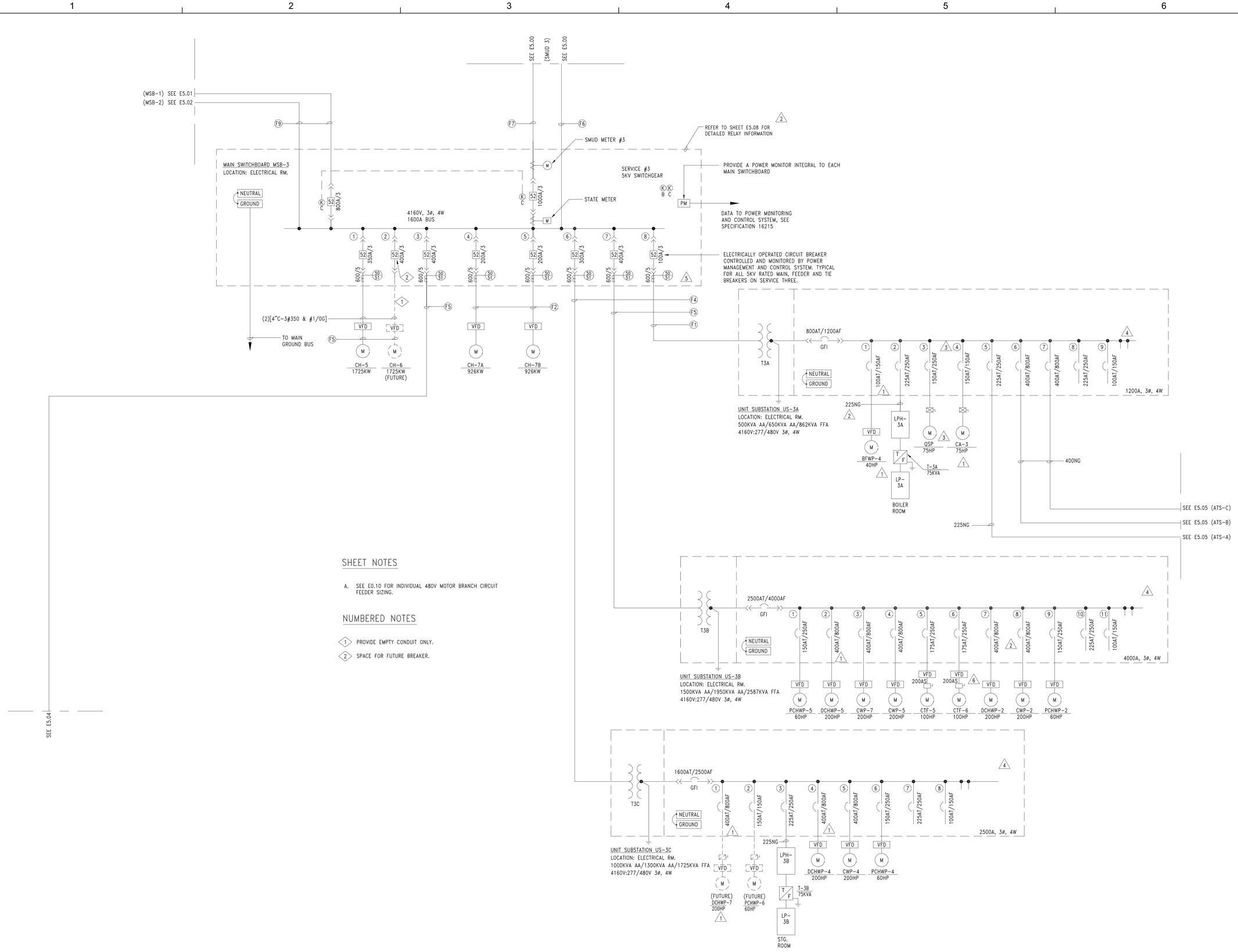
PROJECT NO. 50171906

E5.02

SHEET NO.

ISSUE DATE: AUGUST 22, 2025

V2



SHEET NOTES

A. SEE E0.10 FOR INDIVIDUAL 480V MOTOR BRANCH CIRCUIT FEEDER SIZING.

NUMBERED NOTES

1. PROVIDE EMPTY CONDUIT ONLY.
2. SPACE FOR FUTURE BREAKER.

1 ONE-LINE DIAGRAM - MSB-3 (FOR REFERENCE ONLY)

NO SCALE

3/1/2024 10:47:39 AM

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CENTRAL UTILITY PLANT

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SCHEMATIC DESIGN

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PROFESSIONAL ENGINEER
BENJAMIN SCHLENKER
No. E 021982
Exp. 9/30/25
ELECTRICAL
STATE OF CALIFORNIA
01/27/2025

SCALE
1" = 20'-0"

No.	Description	Date

REVISIONS

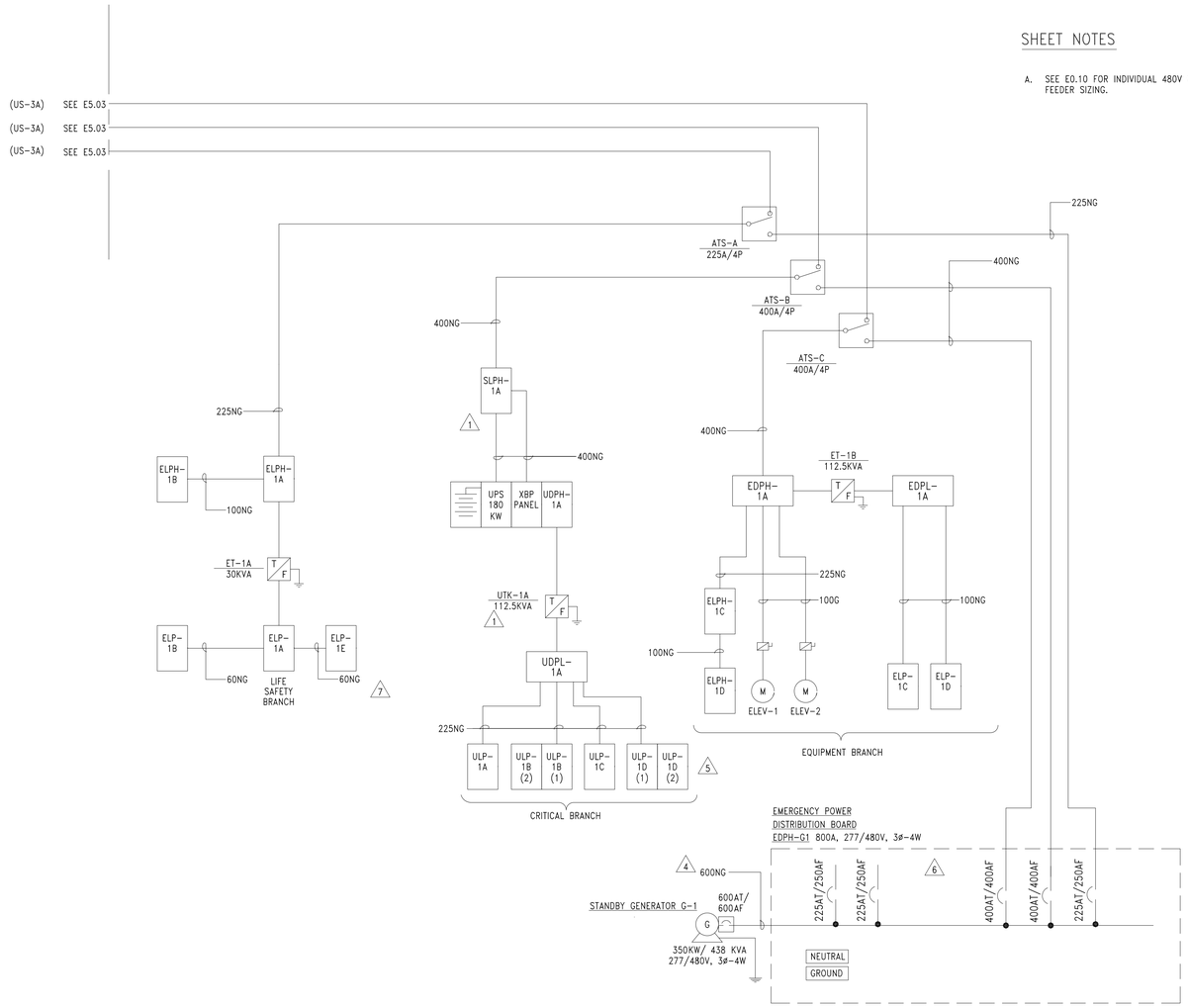
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CHECKED BY	BH
DATE	JANUARY 27, 2025

TITLE
ONE-LINE DIAGRAM (FOR REFERENCE ONLY)

PROJECT NO. 50171906

E5.03
SHEET NO.

ISSUE DATE: AUGUST 22, 2025 V2



SHEET NOTES

A. SEE E0.10 FOR INDIVIDUAL 480V MOTOR BRANCH CIRCUIT FEEDER SIZING.

1 ONE-LINE DIAGRAM - EMERGENCY (FOR REFERENCE ONLY)

NO SCALE

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ATS AND ELECTRICAL REPAIRS
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SACRAMENTO, CA 95814
SCHEMATIC DESIGN

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PROFESSIONAL ENGINEER
BENJAMIN SCHLENKER
No. E 021982
Exp. 9/30/25
ELECTRICAL
STATE OF CALIFORNIA
01/27/2025

SCALE
1" = 20'-0"

No.	Description	Date

REVISIONS

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DATE	JANUARY 27, 2025

TITLE
ONE-LINE DIAGRAM (FOR REFERENCE ONLY)

PROJECT NO. 50171906

E5.04
SHEET NO.

ISSUE DATE: AUGUST 22, 2025 V2

PROJECT: DGS CUP - ELECTRICAL LIGHTING REPAIR — EXISTING

PANEL - ELPH-1A'

LOCATION: FIRST FLOOR

LOAD DESCRIPTION	KVA LOAD CONT	RECP	MOTOR	NON	C. B. TRIP	POLE	#	PH A	PH B	PH C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT	RECP	MOTOR	NON	LOAD DESCRIPTION	
1 LTG RM: 110, 140-142, 130-139	3.46				20	1	1	*			2	20	1					SPARE	2
3 LTG RM: 110, 113, 144 , 146 ,148, 150	3.33				20	1	3		*		4	20	1	1.00				STAIR #2	4
5 LTG RM: 110, 111, 101, 103	2.21				20	1	5	*			6	20	1	0.50				SITE EGRESS / INVERTER	6
7 SPARE					20	1	7		*		8	20	1					SPARE	8
9 PUMP MEZZANINE	2.66				20	1	9	*			10	20	1					SPARE	10
11 SHARED OFFICE RM 214	0.87				20	1	11		*		12	20	1					SPARE	12
13 SPARE							13	*			14							SPACE	14
15 SPARE							15		*		16							SPACE	16
17 SPARE							17	*			18							SPACE	18
19 SPARE							19		*		20							SPACE	20
21 SPARE							21	*			22							SPACE	22
23 SPACE							23		*		24							SPACE	24
25 SPACE							25	*			26							SPACE	26
27 SPACE							27		*		28							SPACE	28
29 SPACE							29	*			30							SPACE	30
31 SPACE							31		*		32							SPACE	32
33 SPACE							33	*			34	50	3				9.62	ELP-1A	34
35 SPACE							35		*		36						6.81		36
---							---	*			---			7.13					---
39 EXISTING LOAD					80	3	39		*		40	100	3	4.62				ELPH-1B	40
---							---	*			---			4.48					---
TOTALS ---------->	12.52													17.72			28.97	<---------- TOTALS	

VOLTAGE: 277/480V, 3 PH, 4W
AIC: 14,000
MOUNTING: SURFACE
BUSING: 225 AMP BUSING
MAIN: 225 AMP MAIN BRKR.

LOAD SUMMATION

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)	
30.25	x	125% OF LOAD	=	37.81	<-- CONTINUOUS
	x	CEC DEMAND	=		<-- RECEPTACLES
	x	1.00	=		<-- MOTORS+25% LARGEST
28.97	x	1.00	=	28.97	<-- NONCONTINUOUS
----				----	
59.22	kVA	71.34	Amps	66.78	kVA 80.36 Amps

ADDITIONAL FEATURES:

1/22/25

PROJECT: DGS CUP - ELECTRICAL LIGHTING REPAIR — EXISTING

PANEL - 'LPH-1A'

LOCATION: SECOND FLOOR

LOAD DESCRIPTION	KVA LOAD CONT	RECP	MOTOR	NON	C. B. TRIP	POLE	#	PH A	PH B	PH C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT	RECP	MOTOR	NON	LOAD DESCRIPTION	
1 SHARED OFFICE LTGS	2.71				20	1	1	*			2	20	1					SPARE	2
3 SHARED OFFICE LTGS	1.45				20	1	3		*		4	20	1					SPARE	4
5 SHARED OFFICE LTGS	3.00				20	1	5	*			6	20	1					SPARE	6
7 PUMP MEZZ LGTS	1.00				20	1	7		*		8	20	1					SPARE	8
9 HIGH BAYS	3.50				20	1	9	*			10	20	1					SPARE	10
11 LCKR RMS,VIEW COUTRS, STOR	1.12				20	1	11		*		12	20	1					SPARE	12
---			0.67		---		---	*			---					0.70		---	---
15 MD-8			0.67		20	3	15		*		16	20	3			0.70		RWBP-1.2	16
---			0.67		---		---	*			---					0.70		---	---
19 ROOF	2.30				20	1	19		*		20							SPACE	20
21 SPARE					20	1	21	*			22							SPACE	22
23 SPARE					20	1	23		*		24							SPACE	24
25 SPACE							25	*			---			0.67				---	---
27 SPACE							27		*		28	20	3	0.67				FC-2-7A	28
29 SPACE							29	*			---			0.67				---	---
31 SPACE							31		*		---			0.67				---	---
33 SPACE							33	*			34	20	3	0.67				FC-2-7B	34
35 SPACE							35		*		---			0.67				---	---
37 SPACE							37	*			---			5.16				---	---
39 SPACE							39		*		40	110	3	5.16				LP-1A	40
41 SPACE							41	*			---			5.16				---	---
TOTALS ---------->	15.08		2.02											15.48		6.13		<---------- TOTALS	

VOLTAGE: 277/480V, 3 PH, 4W
AIC: 14,000
MOUNTING: SURFACE
BUSING: 225 AMP BUSING
MAIN: 225 AMP MAIN BRKR.

LOAD SUMMATION

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)	
30.56	x	125% OF LOAD	=	38.20	<-- CONTINUOUS
	x	CEC DEMAND	=		<-- RECEPTACLES
8.15	x	1.00	=	8.67	<-- MOTORS+25% LARGEST
	x	1.00	=		<-- NONCONTINUOUS
----				----	
38.70	kVA	46.63	Amps	46.87	kVA 56.40 Amps

ADDITIONAL FEATURES:

LARGEST MOTOR LOAD (kVA) = 2.10

1/22/25

PROJECT: DGS CUP - ELECTRICAL LIGHTING REPAIR — EXISTING

PANEL - 'LPH-2B'

LOCATION: FIRST FLOOR

LOAD DESCRIPTION	KVA LOAD CONT	RECP	MOTOR	NON	C. B. TRIP	POLE	#	PH A	PH B	PH C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT	RECP	MOTOR	NON	LOAD DESCRIPTION	
1 BOILER RM	2.70				20	1	1	*			2	20	1				0.38	SITE EAST	2
3 WATER TESTING LAB	1.30				20	1	3		*		4	20	1				0.74	SITE NORTH/PLAZA	4
5 STEAM TURBINE GEN. RM	2.27				20	1	5	*			6	20	1					SPARE	6
---			5.54		---		---		*		---						2.01	---	---
9 WELDING OUTLET			5.54	30	3	9	*				10	20	3				2.01	MD-1	10
---			5.54		---			*			---						2.01	---	---
---			5.54		---				*		14	20	1					SPARE	14
15 WELDING OUTLET			5.54	30	3	15	*				16	20	1					SPARE	16
---			5.54		---			*			18	20	1					SPARE	18
---			5.54		---				*		20	20	1					SPARE	20
21 WELDING OUTLET			5.54	30	3	21	*				---		---				9.00	---	---
---			5.54		---			*			24	20	3				4.00	CTP-2	24
---			5.54		---				*		---		---				4.00	---	---
27 WELDING OUTLET			5.54	30	3	27	*				---		---				2.10	---	---
---			5.54		---			*			30	15	3				2.10	PCR-1	30
---			2.11		---				*		---		---				2.10	---	---
33 CR-17			2.11	15	3	33	*				34							SPACE	34
---			2.11		---			*			36							SPACE	36
37 TES TANK			4.00	20	1	37	*				---		---				12.13	---	---
39 SPARE				20	1	39		*			40	110	3				12.13	LP-2B	40
41 SPARE				20	1	41	*				---		---				12.13	---	---
TOTALS ---------->	6.27			76.80													66.81	<---------- TOTALS	

VOLTAGE: 277/480V, 3 PH, 4W
AIC: 14,000
MOUNTING: SURFACE
BUSING: 225 AMP BUSING
MAIN: 225 AMP MAIN BRKR.

LOAD SUMMATION

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)	
6.27	x	125% OF LOAD	=	7.84	<-- CONTINUOUS
	x	CEC DEMAND	=		<-- RECEPTACLES
	x	1.00	=		<-- MOTORS+25% LARGEST
143.60	x	1.00	=	143.60	<-- NONCONTINUOUS
----				----	
149.87	kVA	180.57	Amps	151.44	kVA 182.24 Amps

ADDITIONAL FEATURES:

1/22/25

PROJECT: DGS CUP - ELECTRICAL LIGHTING REPAIR — EXISTING

PANEL - 'ELPH-1B'

LOCATION: FIRST FLOOR

LOAD DESCRIPTION	KVA LOAD CONT	RECP	MOTOR	NON	C. B. TRIP	POLE	#	PH A	PH B	PH C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT	RECP	MOTOR	NON	LOAD DESCRIPTION	
1 BOILER/STG	3.50				20	1	1	*			2	20	1	0.63				ROOF LIGHTING & EXIT CORRIDOR	112
3 ROOF COOLING TOWER EXIT LTS	2.76				20	1	3		*		4	20	1	0.13				STAIR 4 LTG	4
5 BOILER MEZZANINE	3.50				20	1	5	*			6	20	1	0.58				STAIR 3 LTG	6
7 SHARED OFFICE	2.16				20	1	7		*		8	20	1	0.34				SITE EGRESS - EAST	8
9 PUMP MEZZANINE	1.23				20	1	9	*			10	20	1					SPARE	10
11 UTILIDOR CONNECTOR	0.40				20	1	11		*		12	20	1					SPARE	12
13 UTILITY EXIT SIGNS	0.50				20	1	13	*			14	20	1					SPARE	14
15 UTILITY EXIT SIGNS	0.50				20	1	15		*		16	20	1					SPARE	16
17 SPARE					20	1	17	*			18	20	1					SPARE	18
19 SPARE					20	1	19		*		20							SPACE	20
21 SPACE							21	*			22							SPACE	22
23 SPACE							23		*		24							SPACE	24
25 SPACE							25	*			26							SPACE	26
27 SPACE							27		*		28							SPACE	28
29 SPACE							29	*			30							SPACE	30
31 SPACE							31		*		32							SPACE	32
33 SPACE							33	*			34							SPACE	34
35 SPACE							35		*		36							SPACE	36
37 SPACE							37	*			38							SPACE	38
39 SPACE							39		*		40							SPACE	40
41 SPACE							41	*			42							SPACE	42
TOTALS ---------->	14.55													1.68				<---------- TOTALS	

VOLTAGE: 277/480V, 3 PH, 4W
AIC: 14,000
MOUNTING: SURFACE
BUSING: 100 AMP BUSING
MAIN: 100 AMP MAIN BRKR.

LOAD SUMMATION

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)	
16.23	x	125% OF LOAD	=	20.28	<-- CONTINUOUS
	x	CEC DEMAND	=		<-- RECEPTACLES
	x	1.00	=		<-- MOTORS+25% LARGEST
	x	1.00	=		<-- NONCONTINUOUS
----				----	
16.23	kVA	19.55	Amps	20.28	kVA 24.41 Amps

ADDITIONAL FEATURES:

1/22/25

PROJECT: DGS CUP - ELECTRICAL LIGHTING REPAIR — EXISTING

PANEL - 'LPH-1B'

LOCATION: FIRST FLOOR

LOAD DESCRIPTION	KVA LOAD CONT	RECP	MOTOR	NON	C. B. TRIP	POLE	#	PH A	PH B	PH C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT	RECP	MOTOR	NON	LOAD DESCRIPTION	
1 CHILLER ROOM	3.43				20	1	1	*			---			---		0.67		---	---
3 CHILLER ROOM	2.35				20	1	3		*		4	20	3	---		0.67		MD-9	4
5 STORAGE	2.20				20	1	5	*			---			---		0.67		---	---
7 MAINTENANCE	2.59				20	1	7		*		---			---		0.67		---	---
---			0.70		---		---	*			10	20	3	---		0.67		MD-3	10
11 DOCK LEVELER			0.70		20	3	11		*		---			---		0.67		---	---
---			0.70		---		---	*			---			---		0.67		---	---
15			2.02				15		*		16	20	3	---		0.67		MD-4	16
17 MD-10			2.02		20	1	17	*			---			---		0.67		---	---
19			2.02				19		*		---			---		0.67		---	---
21 RC-1B					20	1	21	*			22	20	3	---		0.67		MD-5	22
23 SPARE					20	1	23		*		---			---		0.67		---	---
25 SPARE					20	1	25	*			---			---		0.67		---	---
27 SPARE					20	1	27		*		28	20	3	---		0.67		MD-6	28
29 SPARE					20	1	29	*			---			---		0.67		---	---
31 SPARE					20	1	31		*		---			---		0.67		---	---
33 SPARE					20	1	33	*			34	20	3	---		0.67		MD-7	34
35 SPARE					20	1	35		*		---			---		0.67		---	---
37 SPACE					20	1	37	*			---			0.59				---	---
39 SPACE					20	1	39		*		40	20	3	0.59	15	3	39	MD-10	40
41 SPACE					20	1	41	*			---			---		---		---	---
TOTALS ---------->	10.57		8.16													12.11		<---------- TOTALS	

VOLTAGE: 120/208V, 3 PH, 4W
AIC: 14,000
MOUNTING: SURFACE
BUSING: 225 AMP BUSING
MAIN: 225 AMP MAIN BRKR.

LOAD SUMMATION

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)	
10.57	x	125% OF LOAD	=	13.21	<-- CONTINUOUS
	x	CEC DEMAND	=		<-- RECEPTACLES
20.28	x	1.00	=	21.79	<-- MOTORS+25% LARGEST
	x	1.00	=		<-- NONCONTINUOUS
----				----	
30.85	kVA	85.69	Amps	35.00	kVA 97.23 Amps

ADDITIONAL FEATURES:

LARGEST MOTOR LOAD (kVA) = 6.06

1/22/25

PROJECT: DGS CUP - ELECTRICAL LIGHTING REPAIR — EXISTING

PANEL - 'LPH-3A'

LOCATION: SECOND FLOOR

LOAD DESCRIPTION	KVA LOAD CONT	RECP	MOTOR	NON	C. B. TRIP	POLE	#	PH A	PH B	PH C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT	RECP	MOTOR	NON	LOAD DESCRIPTION	
1 BOILER ROOM	2.18				20	1	1	*			---			---		0.17		---	---
3 BOILER ROOM	1.92				20	1	3		*		4	15	3	---		0.17		CCP-1	4
5 ROOF/BOILER HIGH BAYS	2.30				20	1	5	*			---			---		0.17		---	---
7 SPARE					20	1	7		*		---			---		0.17		---	---
9 SPARE					20	1	9	*			10	15	3	---		0.17		CCP-2	10
11 SPARE					20	1	11		*		---			---		0.17		---	---
13 ROOF LIGHTING	0.20				20	1	13	*			14	20	1					SPARE	14
15 SPACE							15		*		16	20	1					SPARE	16
17 SPACE							17	*			18	20	1					SPARE	18
19 SPACE							19		*		20	30	1					SPARE	20
21 SPACE							21	*			22	20	1					SPARE	22
23 SPACE							23		*		24	20	1					SPARE	24
25 SPACE							25	*			---		---			0.29		---	---
27 SPACE							27		*		28	15	3			0.29		BCP-1	28
29 SPACE							29	*			---		---			0.29		---	---
31 SPACE							31		*		---		---			0.29		---	---
33 SPACE							33	*			34	15	3			0.29		BCP-2	34
35 SPACE							35		*		---		---			0.29		---	---
---			0.59				---	*			---		---			5.34		---	---
39 EF-R-24			0.59	15	3	39		*			40	110	3			5.34		LP-3A	40
---			---		---		---		*		---		---			5.34		---	---
TOTALS ---------->	6.59		1.18													2.75	16.02	<---------- TOTALS	

VOLTAGE: 277/480V, 3 PH, 4W
AIC: 14,000
MOUNTING: SURFACE
BUSING: 225 AMP BUSING
MAIN: 225 AMP MAIN BRKR.

LOAD SUMMATION

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)	
6.59	x	125% OF LOAD	=	8.24	<-- CONTINUOUS
	x	CEC DEMAND	=		<-- RECEPTACLES
2.75	x	1.00	=	2.97	<-- MOTORS+25% LARGEST
17.20	x	1.00	=	17.20	<-- NONCONTINUOUS
----				----	
26.54	kVA	31.97	Amps	28.40	kVA 34.18 Amps

ADDITIONAL FEATURES:

LARGEST MOTOR LOAD (kVA) = 0.87

1/22/25

PROJECT: DGS CUP - ELECTRICAL LIGHTING REPAIR — EXISTING

PANEL - 'LPH-1C'

LOCATION: FIRST FLOOR

LOAD DESCRIPTION	KVA LOAD CONT	RECP	MOTOR	NON	C. B. TRIP	POLE	#	PH A	PH B	PH C	CKT #	C. B. TRIP	POLE	KVA LOAD CONT	RECP	MOTOR	NON	LOAD DESCRIPTION	
1 RECEPTION/LOBBY	1.72				20	1	1	*			2	20	1	1.04				SITE SOUTH	2
3 SHARED OFFICE	2.80				20	1	3		*		4	20	1	1.05				SITE EAST	4
5 ELECTRICAL ROOM	2.99				20	1	5	*			6	20	1					SPARE	6
7 ELEC WORK ROOM/ RESTROOM	1.16				20	1	7		*		8	20	1	0.50				ACCENT LTG. ELEC ROOM	8
9 SPARE					20	1	9	*			10	20	1					SPARE	10
11 SPARE					20	1	11		*		12	20	1					SPARE	12
13 SPARE					20	1	13	*			14	20	1					SPARE	14
15 SPARE					20	1	15		*		16	20	1					SPARE	16
--- UTILIDOR POWER					45	---				*	18	20	1					SPARE	18
19 UTILIDOR POWER					45	3	19	*			20	20	1	1.00				PV ARR AV	20
--- UTILIDOR POWER					45	---			*		22							SPACE	22
23 SPACE							23			*	24							SPACE	24
25 SPACE							25	*			26							SPACE	26
27 SPACE							27		*		28							SPACE	28
29 SPACE							29	*			30							SPACE	30
31 SPACE							31		*		32							SPACE	32
33 SPACE							33	*			34							SPACE	34
35 SPACE							35		*		36							SPACE	36
37 SPACE							37	*			38							SPACE	38
39 SPACE							39		*		40							SPACE	40
41 SPACE							41	*			42							SPACE	42
TOTALS ---------->	8.67													3.58				<---------- TOTALS	

VOLTAGE: 277/480V, 3 PH, 4W
AIC: 14,000
MOUNTING: SURFACE
BUSING: 225 AMP BUSING
MAIN: 225 AMP MAIN BRKR.

LOAD SUMMATION

CONNECT LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)	
12.25	x	125% OF LOAD	=	15.31	<-- CONTINUOUS
	x	CEC DEMAND	=		<-- RECEPTACLES
	x	1.00	=		<-- MOTORS+25% LARGEST
	x	1.00	=		<-- NONCONTINUOUS
----				----	
12.25	kVA	14.76	Amps	15.31	kVA 18.43 Amps

ADDITIONAL FEATURES:

1/22/25

PANEL SCHEDULE NOTES

1. ALL CIRCUITS INDICATED "LIGHT" ON PANELS SCHEDULES ARE EXISTING TO REMAIN AND HAVE NOT BEEN MODIFIED AS PART OF THIS PROJECT.
2. ALL CIRCUITS INDICATED "BOLD" ON PANEL SCHEDULES HAVE BEEN MODIFIED, ALTERED, OR NEW AS PART OF THIS PROJECT.

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FIRE AND PANIC ONLY
06/23/25
25-0655
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

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JOB NO. 24-S139.00 PM. JM
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DRAWN BY ECOM

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CALIFORNIA DEPARTMENT OF GENERAL SERVICES
CENTRAL UTILITY PLANT
ATS AND ELECTRICAL REPAIRS
625 Q STREET
SACRAMENTO, CA 95814
SCHEMATIC DESIGN

SEAL
PROFESSIONAL ENGINEER — BENJAMIN SCHLENKER — No. E 021982 — Exp. 9/30/25 — ELECTRICAL — STATE OF CALIFORNIA
01/27/2025

SCALE
1" = 20'-0"

No.	Description	Date

REVISIONS

DRAWN BY	ECOM
APPROVED BY	BH
CHECKED BY	BH
DATE	JANUARY 27, 2025

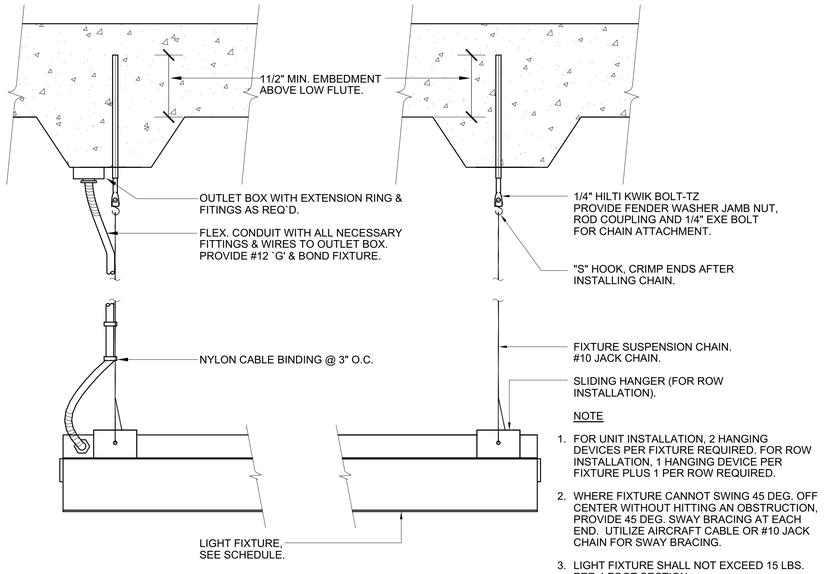
TITLE
PANEL SCHEDULES & LOAD CALC'S

PROJECT NO. 50171906

E6.00
SHEET NO.

ISSUE DATE: AUGUST 22, 2025
V2

3/1/2024 10:47:39 AM

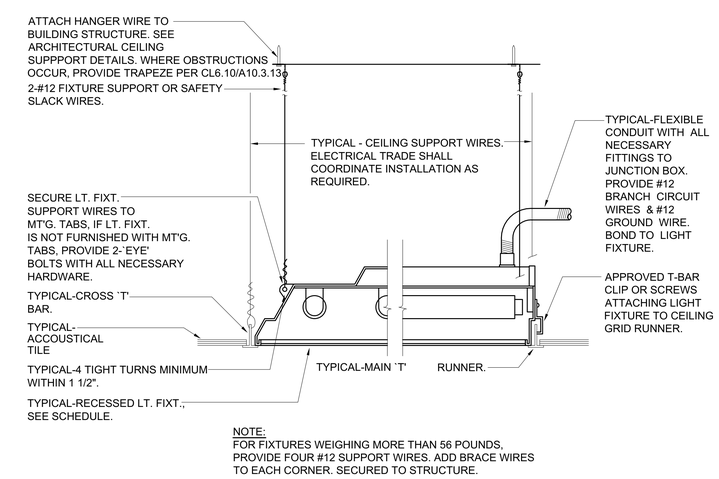


NOTE

1. FOR UNIT INSTALLATION, 2 HANGING DEVICES PER FIXTURE REQUIRED. FOR ROW INSTALLATION, 1 HANGING DEVICE PER FIXTURE PLUS 1 PER ROW REQUIRED.
2. WHERE FIXTURE CANNOT SWING 45 DEG. OFF CENTER WITHOUT HITTING AN OBSTRUCTION, PROVIDE 45 DEG. SWAY BRACING AT EACH END. UTILIZE AIRCRAFT CABLE OR #10 JACK CHAIN FOR SWAY BRACING.
3. LIGHT FIXTURE SHALL NOT EXCEED 15 LBS. PER 4 FOOT SECTION.

1 SUSPENDED LIGHT FIXTURE MOUNTING DETAIL

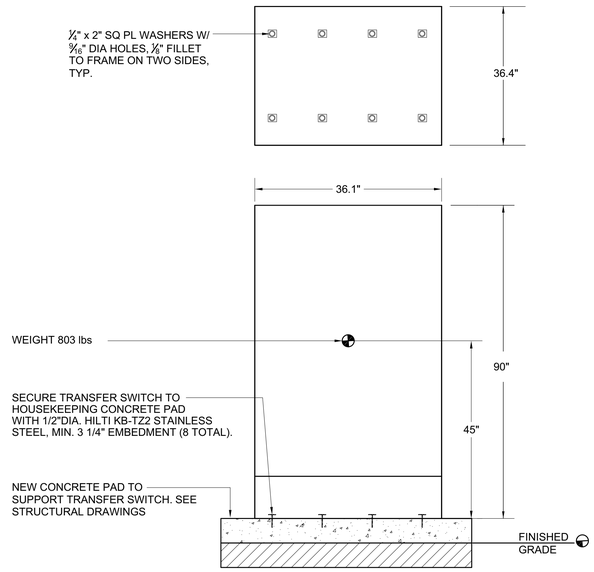
NO SCALE



NOTE:
FOR FIXTURES WEIGHING MORE THAN 56 POUNDS, PROVIDE FOUR #12 SUPPORT WIRES. ADD BRACE WIRES TO EACH CORNER. SECURED TO STRUCTURE.

2 TYPICAL - RECESSED 'T' BAR LIGHT FIXTURE MOUNTING DETAIL

NO SCALE



3 AUTOMATIC TRANSFER SWITCH MOUNTING DETAIL

NO SCALE

NOTE:
FOR FIXTURES WEIGHING MORE THAN 56 POUNDS, PROVIDE FOUR #12 SUPPORT WIRES ADD BRACE WIRES TO EACH CORNER SECURED TO STRUCTURE AND IT SHALL BE INDEPENDENTLY BRACED . (PER ASTM E580 THE GRID SYSTEMS ARE NOT TESTED/APPROVED TO PROVIDE LATERAL SUPPORT TO FIXTURES GREATER THAN 56 LBS)

4 RECESSED DOWNLIGHT IN CEILING MOUNTING DETAIL

NO SCALE

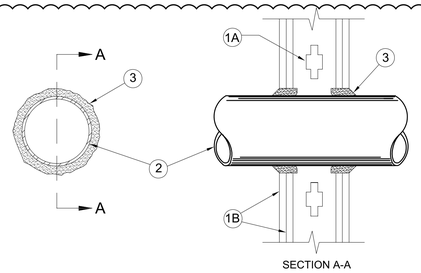
5 BOX SUPPORT (BETWEEN STUD)

NO SCALE

6 BOX SUPPORT (ON STUD)

NO SCALE

SYSTEM NO. W-L-1001
JUNE 15, 2005
F RATINGS - 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3 AND 4 HR (SEE ITEM 3)
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



SECTION A-A

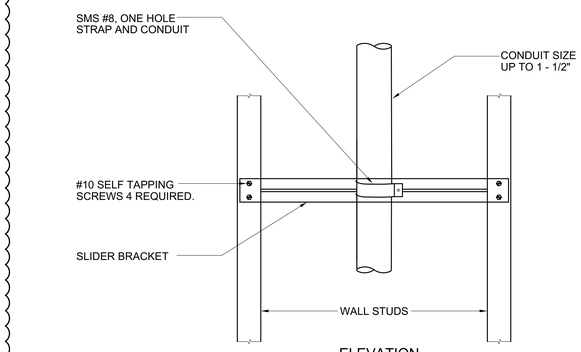
MAX PIPE OR CONDUIT DIA. IN. (mm)	F RATING HR	T RATING HR
1 (25)	1 OR 2	0+, 1 OR 2
1 (25)	3 OR 4	3 OR 4
4 (102)	1 OR 2	0
6 (152)	3 OR 4	0
12 (305)	1 OR 2	0

+WHEN COPPER IS USED, T RATING IS 0 HR.
3M COMPANY - CP 25WB+ CAULK OR FB-3000WT SEALANT,
*BEARING THE UL CLASSIFICATION MARKING

1. WALL ASSEMBLY- THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX. 24 IN. OC.
   B. GYPSUM BOARD*- NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTNER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM. OF OPENING IS 26 IN.
2. THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRE STOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN. O IN. TO MAX. 2 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.
   A. STEEL PIPE - NOM 24 IN. DIAM. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE - NOM 24 IN. DIAM. (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM. (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
   C. CONDUIT - NOM 6 IN. DIAM. (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
   D. COPPER TUBING - NOM 6 IN. DIAM. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   E. COPPER PIPE - NOM 6 IN. DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   F. FILL PENETRATION PRODUCT* - FLEXIBLE METAL PIPING - THE FOLLOWING TYPES OF STEEL METAL GAS PIPING MAY BE USED:
      1. NOM 2 IN. DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. OMEGA FLEX INC.
      2. NOM 1 IN. DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. TITEFLEX CORP. A BUDDY CO.
      3. NOM 1 IN. DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. WARD MFG INC.
3. FILL, VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 5/8, 1-1/4, 1-7/8 AND 2-1/2 IN. THICKNESS OF CAULK FOR 1, 2, 3, 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATIONS ON BOTH SIDE OF WALL. THE HOURLY F RATING OF THE FIRE STOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING IF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW.

8 CONDUIT PENETRATION FIRESTOP SYSTEM

NO SCALE



CONDUIT SUPPORT BETWEEN STUDS

7 CONDUIT SUPPORT BETWEEN STUDS

NO SCALE

OFFICE OF THE STATE FIRE MARSHAL
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06/23/25
25-0655
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DRAWN BY ECOM

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CALIFORNIA DEPARTMENT OF GENERAL SERVICES
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SACRAMENTO, CA 95814
SCHEMATIC DESIGN

SEAL
BENJAMIN SCHLENKER No. E 021982 Exp. 9/30/25 ELECTRICAL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER
06/16/2025

SCALE
1" = 20'-0"

△	OSFM BACKCHECK	2025-06-16

No.	Description	Date

REVISIONS

DRAWN BY	ECOM
APPROVED BY	BH
CHECKED BY	BH
DATE	JUNE 16, 2025

TITLE
ELECTRICAL DETAILS

PROJECT NO. 50171906

E7.00
SHEET NO.

ISSUE DATE: AUGUST 22, 2025
V2

3/1/2024 10:47:39 AM