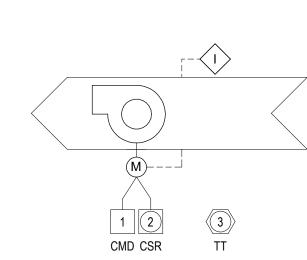
			BMS	S - HV	AC	CON	ITRO	LS	M-80	0 F	POINT I	FUN	CTI	ON	SCHEDULE		
				FAIL MOD	DE			S	OFTWARE	 E					ALARMING		
NO.	⁻ AG POINT NAM	/IE POINT DEFINITION	POINT TYPE	FAIL OFF (CLOSED) FAIL MODE ON (OPEN) LAST COMMANDED STATE	DEFAULT	CALCOLATED POINT DIRECT DIGITAL CONTROL NETWORK POINT	PROGRAM START/STOP RUN TIME	SOFTWARE INTERLOCKS		TREND	TREND INTERVAL	UNITS	ENHANCED ALARM CRITICAL ALARM		HIGH LIMIT	LOW LIMIT	NOTES
DX SPL	T SYSTEM																
1 Al		SYSTEM ALARM (GENERIC)	DI							•	COV		•				
2 T	ZoneTemp	ZONE TEMPERATURE	Al								NUMERIC	°F			EffCoolSp + 5°F (ADJ)	EffCoolSp - 5°F (ADJ)	
EXHAU:	ST FAN EF-3																
1 CI	MD EaFanCmd	EXHAUST FAN COMMAND	DO	-				-			COV						
2 C	SR EaFanSts	EXHAUST FAN STATUS	DI			•					COV		•				
3 T	ZoneTemp	ZONE TEMPERATURE	Al								NUMERIC	°F	•		EffCoolSp + 5°F (ADJ)	EffCoolSp - 5°F (ADJ)	
GENER	AL/TOILET EXHAUS	T FAN	·														
1 CI	MD EaFanCmd	EXHAUST FAN COMMAND	DO					-			COV						
2 C	SR EaFanSts	EXHAUST FAN STATUS	DI								COV						



SEQUENCE OF OPERATION

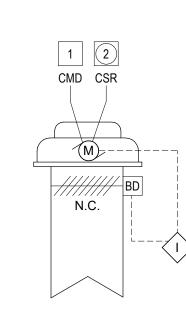
GENERAL

THE BUILDING MANAGEMENT SYSTEM (BMS) SHALL CONTINUOUSLY MONITOR THE ELECTRICAL ROOM TEMPERATURE. THE EXHAUST FAN SHALL OPERATE AS FOLLOWS TO MAINTAIN THE ROOM TEMPERATURE AT THE DESIRED SETPOINT (85°F, ADJUSTABLE).

SAFETIES AND ALARMS

CURRENT RELAYS SHALL BE PROVIDED TO MONITOR THE STATUS OF THE EXHAUST FANS. IF THE STATUS INDICATED DOES NOT MATCH THE COMMANDED OUTPUT, AN ALARM WILL BE GENERATED THROUGH THE BMS.





SEQUENCE OF OPERATION

<u>GENERAL</u>

THE UNIT WILL BE STARTED AUTOMATICALLY THROUGH THE DDC BASED ON AN OCCUPANCY SCHEDULE COORDINATED WITH THE OWNER.

WHEN ENABLED, THE EXHAUST FAN WILL BE FORCED TO ITS MINIMUM ECM SPEED. ONCE STABLE, THE FAN WILL SLOWLY RAMP UP ITS SPEED TO MAINTAIN THE EXHAUST AIR STATIC PRESSURE (EaPress) AT THE EXHAUST STATIC PRESSURE SETPOINT (EaPressSp). THE EXHAUST AIR STATIC

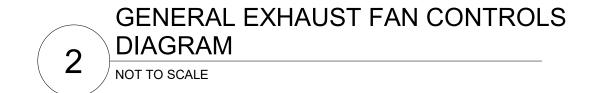
PRESSURE SET-POINT SHALL BE DETERMINED BY THE AIR BALANCER.

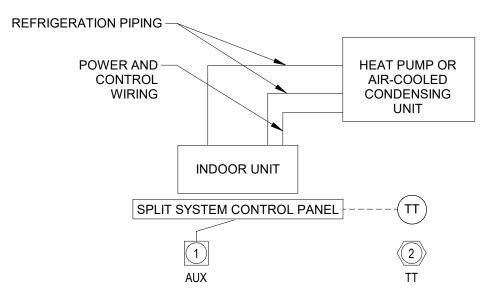
WHEN THE EXHAUST FAN IS DISABLED, THE FAN WILL STOP. AFTER A 30 SECOND (ADJ) TIME DELAY.

ALL SETPOINTS AND TIME OF DAY SCHEDULES SHALL BE COORDINATED WITH THE OWNER.

SAFETIES AND ALARMS

CURRENT RELAYS SHALL BE PROVIDED TO MONITOR THE STATUS OF THE EXHAUST FANS. IF THE STATUS INDICATED DOES NOT MATCH THE COMMANDED OUTPUT, AN ALARM WILL BE GENERATED THROUGH THE BMS.





SEQUENCE OF OPERATION

GENERAL

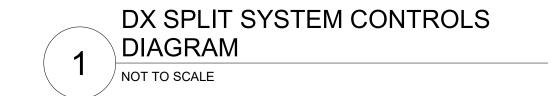
ALL CONTROLS SHALL BE PROVIDED BY THE UNIT MANUFACTURER AND SHALL HAVE THE CAPABILITY TO INTERFACE WITH THE BMS [VIA BACNET MS/TP].

THE UNIT SHALL CYCLE OPERATION TO MAINTAIN A ZONE TEMPERATURE SETPOINT OF [72°F] (ADJ). ZONE TEMPERATURE SETPOINT SHALL BE DETERMINED AND SET THROUGHT

ALL SETPOINTS AND TIME OF DAY SCHEDULES SHALL BE COORDINATED WITH THE

SAFETIES AND ALARMS

THE LOCAL DDC SHALL MONITOR THE UNIT ALARM STATUS AND IN THE EVENT OF A FAILURE REPORT AN ALARM THROUGH THE BMS.



MECHANICAL CONTROLS GENERAL NOTES

- A. THESE DRAWINGS CONTAIN THE GENERAL CONTROL REQUIREMENTS. THESE STRATEGIES WILL BE CLARIFIED AND MODIFIED THROUGH PROGRAMMING MEETINGS BETWEEN THE COMMISSIONING AUTHORITY, OWNER AND ENGINEER PRIOR TO IMPLEMENTATION. AT THAT TIME INITIAL SET POINTS AND RESET SCHEDULES WILL BE FINALIZED BEFORE PROGRAMMING. AFTER THE SYSTEM IS OPERATIONAL, TRENDING WILL BE REQUIRED TO VERIFY THE ACCURACY AND ADEQUACY OF THE SEQUENCE OF CONTROL. PROVIDE ADDITIONAL FINE TUNING OR CHANGES IN STRATEGY IN ORDER TO OPTIMIZE BUILDING OPERATION AS DIRECTED DURING THESE MEETINGS. PROVIDE PROGRAMMING FOR ADDITIONAL ALARMS AS REQUESTED BY THE OWNER OR ENGINEER OR COMMISSIONING AUTHORITY. ALL SET POINTS SHALL BE OPERATOR ADJUSTABLE THROUGH THE BMS AT THE OPERATOR'S WORKING STATION
- B. THESE DIAGRAMS ARE INTENDED TO DEMONSTRATE THE SYSTEM CONFIGURATION REQUIREMENTS WITH RELATIVE PLACEMENT OF THE CONTROL RELATED DEVICES AND INSTRUMENTATION. IT SHOULD BE NOTED THAT ADDITIONAL ELEMENTS SUCH AS GENERAL VALVES OR OTHER NON-ACTIVELY CONTROLLED DEVICES MAY NOT SHOWN. REFER TO THE DETAILS, PROJECT PLANS, AND SPECIFICATIONS FOR ADDITIONAL DEVICES AND CONSTRUCTION THAT IS REQUIRED IN THE CONSTRUCTION OF THESE SYSTEMS
- C. SEE SPECIFICATIONS FOR MINIMUM CLEARANCE OF ALL MECHANICAL EQUIPMENT, PIPING, DUCTWORK, AND DEVICES OF IN ALL GENERAL AND PUBLIC ACCESS AREAS. MAINTAIN ACCEPTABLE CLEARANCE IN ALL AREAS REQUIRED FOR SERVICE AND ACCESS OF MECHANICAL EQUIPMENT AS PER ANY APPLICABLE CODES AND/OR MANUFACTURER RECOMMENDATIONS.
- D. MAINTAIN CODE-REQUIRED MINIMUM CLEARANCES ABOVE AND IN FRONT OF ALL ELECTRICAL PANELS, INCLUDING THOSE INCLUDED AS A PART OF MECHANICAL EQUIPMENT.
- MANUFACTURER'S RECOMMENDATIONS FOR TIME DELAYS BETWEEN STAGING ON/OFF COMPONENTS.
- F. ALL POINTS LISTED (DIRECT& NETWORK) SHALL BE INCLUDED ON GRAPHICS.
- G. ALL CONTROL POINTS ARE TRENDABLE.H. PROVIDE ANY DEVICES SHOWN IN THE DIAGRAM NOT PROVIDED BY THE UNIT

E. EDIT THE LOADING AND UNLOADING SEQUENCES TO COMPLY WITH

- I. ALL NUMERICAL INPUTS FOR SETPOINTS AND ALARMING SHALL BE MADE TO BE ADJUSTABLE THROUGH THE OWS AND FINALIZED DURING START-UP AND/OR COMMISSIONING.
- J. SEE PLANS AND SCHEDULES FOR PARENT/CHILD AIR HANDLING UNIT AND TERMINAL UNIT RELATIONSHIPS.

BMS POINT GRAPHIC LEGEND

POINT SYMBOL - POINT TYPE GRAPHIC REPRESENTATION (SEE BELOW)
POINT NUMBER - CONSECUTIVELY COUNTED
POINT TAG - CORRESPONDS TO CONTROL ABBREVIATIONS

POINT TAG NUMBER - CONSECUTIVELY COUNTED IN RESPECT TO CONTROL ABBREVIATIONS

0 DIGITAL INPUT (DI)

0 DIGITAL OUTPUT (DO)

(0) ANALOG INPUT (AI) (0) ANALOG OUTPUT (AO)

SCHOOL DISSE

Inglewood Unified School District

401 S. Inglewood Ave. Inglewood, CA 90301

IUSD Bennett-Kew P-8 Academy

11710 S Cherry Ave. Inglewood, CA 90303

△ Date Issued For1 11/5/2024 DSA SUBMITTAL

DSA A# 03-124773 FILE # 19-48

550 South Hope Street Suite 2500 Los Angeles, California 90071 USA (213) 542-4500

90071 USA (213) 542-4500 WWW.HED.DESIGN



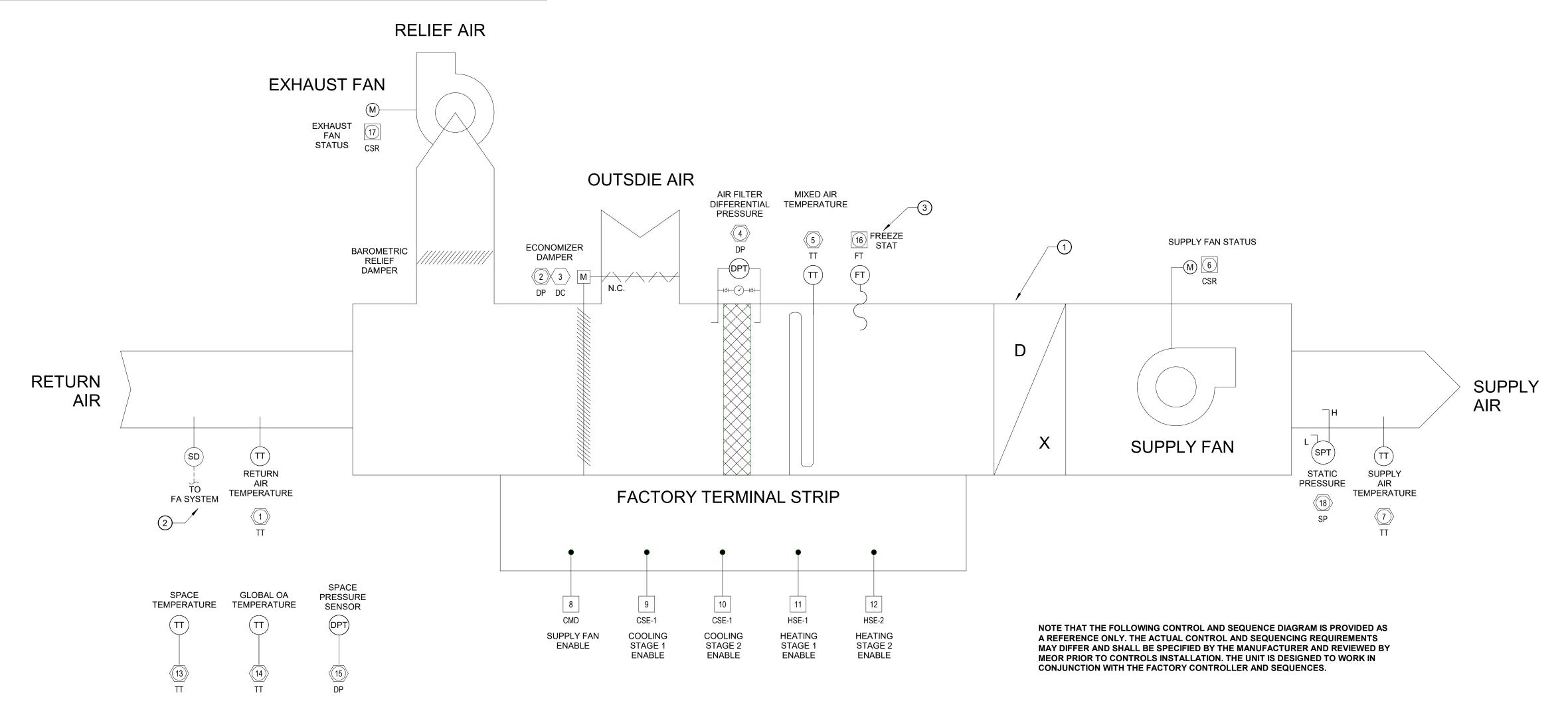
Control Diagram

Control Diagrams

2023-IU002-002

M-800

			BMS	3 - H	IVAC	CON	ITRC	LS M	-801	POIN	NT F	FUNC	CTI	ON	SCHEDULE		
					MODE				TWARE						ALARMING		
				FAIL	Ш	 <u> </u>		301	IVVANE						ALARMING		_
NO. TAC	POINT NAME	POINT DEFINITION	POINT TYPE	FAIL OFF (CLOSED) FAIL MODE ON (OPEN)	r commanded al default	CALCULATED POINT DIRECT DIGITAL CONTROL NETWORK POINT	OGRAM N TIME	AD, AD,	SETBACK SETPOINT	TREND INTERVAL		UNITS	ENHANCED ALARM	MAINTENANCE ALARM	HIGH LIMIT	LOW LIMIT	NOTES
RTU TYPIC		1 ONVI BELLIVITION	1111	ш			. 14 14	0) 0) _	ן מ ן כ	- -			ш	J Z	THOTTEINIT	EOW EINIT	NOTES
1 TT	Temp	TEMPERATURE	Al							NUME	RIC	°F					
2 DP	DmprPos	DAMPER POSITION	Al						•	NUME	RIC	%					
3 DC	DmprCmd	DAMPER COMMAND	AO	•					-	NUME	RIC	%					
4 DP	PreFilDifPr	PREFILTER DIFFERENTIAL PRESSURE	Al							NUME	RIC	IN WC					
5 TT	MaTemp1	MIXED AIR TEMPERATURE 1	Al							NUME	RIC	°F					
6 CSR	PreFilDifPr	PREFILTER DIFFERENTIAL PRESSURE	DI							NUME	RIC	IN WC					
7 TT	Temp	TEMPERATURE	Al							NUME	RIC	°F					
8 CMD	MaTemp1	MIXED AIR TEMPERATURE 1	DO							NUME	RIC	°F					
9 CSE-	MaTemp1	MIXED AIR TEMPERATURE 1	DO							NUME	RIC	°F					
10 CSE-	MaTemp1	MIXED AIR TEMPERATURE 1	DO							NUME	RIC	°F					
11 HSE-	MaTemp1	MIXED AIR TEMPERATURE 1	DO							NUME	RIC	°F					
12 HSE-	MaTemp1	MIXED AIR TEMPERATURE 1	DO							NUME	RIC	°F					
13 TT	Temp	TEMPERATURE	Al							NUME	RIC	°F					
14 TT	Temp	TEMPERATURE	Al							NUME	RIC	°F					
15 DP	Temp	TEMPERATURE	Al					 		NUME		°F					
16 FT	LowLmtTemp	LOW LIMIT FREEZESTAT	DI							001							
17 CSR	PreFilDifPr	PREFILTER DIFFERENTIAL PRESSURE	DI							NUME	RIC	IN WC		•			
18 SP	DaPress	DISCHARGE AIR DUCT STATIC PRESSURE	Al							NUME	RIC	IN WC	•		4 IN WC (ADJ)	0 IN WC (ADJ)	



PROVIDE RELAY FOR FIRE ALARM INTERFACE.

3. LOW TEMPERATURE THERMOSTATS (FREEZESTATS) SHALL BE INCREMENTAL CAPILLARY TUBE TYPE AVERAGING THE TEMPERATURE IN 12" INCREMENTS. THE FACE OF THE COOLING COIL, (MINIMUM OF 2 IN ALL CASES). EACH FREEZESTAT SHALL COVER A MAXIMUM OF 20 SQ.FT OF DUCT CROSS-SECTIONAL AREA.

SEQUENCE OF OPERATION

RTU-1 thru RTU-8 IS A PACKAGED SINGLE ZONE (CAV) CONSTANT VOLUME ROOF TOP AIR HANDLING UNIT INTENDED TO SERVE EACH ZONE WITH TWO STAGES OF DX COOLING, AND TWO STAGES OF DX HEATING.

THE UNIT WILL BE STARTED AUTOMATICALLY THROUGH AN OCCUPANCY SCHEDULE COORDINATED WITH THE OWNER.

THE UNIT WILL AUTOMATICALLY TURN OFF DURING UNOCCUPIED MODE AND WILL FOLLOW A MORNING WARM-UP/COOLING-DOWN SEQUENCE PRIOR TO BEING PLACED IN OCCUPIED MODE.

THE H-O-A SWITCH WILL BE KEPT IN THE "AUTO" POSITION. "HAND" AND "OFF" POSITIONS WILL BE USED ONLY FOR MAINTENANCE. WHEN THE UNIT IS "OFF" ITS RESPECTIVE MINIMUM OUTSIDE AIR, ECONOMIZER, RELIEF AIR AND FAN ISOLATION DAMPERS SHALL FULLY CLOSE AND THE SUPPLY AND EXHAUST FANS SHALL BE STOPPED. WHEN THE UNIT IS COMMANDED ON, THE FAN ISOLATION DAMPERS SHALL FULLY OPEN AND THE MINIMUM OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL OPEN TO THEIR MINIMUM POSITIONS. WHEN THE ISOLATION DAMPERS ARE PROVEN OPEN THROUGH THEIR RESPECTIVE END SWITCHES, THE SUPPLY FANS ARE STARTED AT MINIMUM SPEED AND PLACED UNDER SPEED CONTROL AS DESCRIBED IN THE "SUPPLY FAN SPEED CONTROL". ONCE THE FANS ARE UNDER SPEED CONTROL AND ARE MAINTAINING THEIR RESPECTIVE PRESSURE & AIRFLOW SETPOINTS, THE DAMPERS SHALL OPERATE AS DESCRIBED IN THE "ECONOMIZER AND DAMPER CONTROL" PORTION OF THIS SEQUENCE.

ALL SETPOINTS AND TIME OF DAY SCHEDULES SHALL BE COORDINATED WITH THE OWNER.

SUPPLY FAN SPEED CONTROL

THE SUPPLY FAN SHALL OPERATE TO MEET THE AIR FLOW REQUIRMENT PER SCHEDULE.

EXHAUST FAN SPEED CONTROL

THE EXHAUST FAN(S) WILL BE ELECTRONICALLY INTERLOCKED TO ECONOMIZER AND START AND STOP UPON ACTIVATION.

MODULATE OPEN TOWARDS THEIR MINIMUM POSITIONS PRIOR TO BEING PLACED INTO ANY ECONOMIZER CONTROL.

ECONOMIZER AND DAMPER CONTROL

ECONOMIZER HIGH LIMIT CUTOFF TEMPERATURE SETPOINT (EconHITempSp) WILL BE A CALCULATED POINT BY THE DDC EQUAL TO THE FOLLOWING EQUATION: RETURN AIR TEMPERATURE (RaTemp) MINUS [6°F].

WHEN THE OUTSIDE AIR TEMPERATURE (OaTemp) IS GREATER THAN OR EQUAL TO THE EconHiTempSp, OR THE OUTSIDE AIR ENTHALPY (OaEnth - CALCULATED USING OaTemp and OaHum) IS GREATER THAN RETURN AIR ENTHALPY (RaEnth - CALCULATED USING RaTemp AND RaHum), THE MIXED AIR DAMPER (MaDmprCmd) WILL MODULATE TO ITS FULLY OPEN POSITION, THE MINIMUM OUTDOOR AIR DAMPER (MoaDmprCmd) WILL MODULATE TO MAINTAIN MINIMUM OUTSIDE AIR FLOW (OaFlow) SETPOINT AND THE RELIEF AIR DAMPER (RIfDmprCmd) WILL MODULATE TO ITS MINIMUM POSITION. DURING THIS MODE OF OPERATION, THE ECONOMIZER DAMPER (EconDmprCmd) SHALL REMAIN FULLY CLOSED. THE DCC WILL ENABLE ITS "MINIMUM VENTILATION AND MECHANICAL COOLING" MODE TO PREVENT OPERATION OF THE HEATING COIL CONTROL VALVE (HcoilVlvCmd).

WHEN OaTemp IS LESS THAN EconHiTempSp AND GREATER THAN DISCHARGE AIR TEMPERATURE SETPOINT (DaTempSp) AND OaEnth IS LESS THAN RaEnth, THE MoaDmprCmd, EconDmprCmd, AND RIfDmprCmd WILL MODULATE TO THEIR FULLY OPEN POSITIONS AND THE MaDmprCmd WILL MODULATE TO ITS FULLY CLOSED POSITION. THE DDC WILL ENABLE ITS ECONOMIZER AND MECHANICAL COOLING" MODE TO PREVENT OPERATION OF THE HooiIVIvCmd.

WHEN OaTemp IS LESS THAN DaTempSp, THE MaDmprCmd WILL MODULATE TO ITS FULLY OPEN POSITION, THE MoaDmprCmd WILL MODULATE TO MAINTAIN DaTempSp AND THE RIFDMPC WILL MODULATE TO MAINTAIN MIXED AIR PLENUM PRESSURE (MaPress) AT THE MIXED AIR PLENUM PRESSURE SETPOINT (MaPressSp) OF -0.05" WG (ADJ). IF THE MoaDmprCmd IS FULLY OPEN AND DATemp REMAINS ABOVE DATempSp, THE EconDmprCmd SHALL OPEN AND MODULATE TO MAINTAIN DATemp AT DaTempSp. THE DDC WILL ENABLE ITS "OA RAMP AND MECHANICAL HEATING" MODE TO PREVENT OPERATION OF THE COOLING COIL CONTROL VALVE (CcoilVIvCmd). DURING UNOCCUPIED MODE AND IN MORNING WARM-UP/COOL-DOWN OPERATION, THE EconDmprCmd, MoaDmprCmd, and RlfDmprCmd WILL REMAIN FULLY CLOSED. WHEN THE UNIT SWITCHES FROM UNOCCUPIED OR MORNING WARM-UP/COOL-DOWN MODE TO OCCUPIED MODE, THE MoaDmprCmd AND RIfDmprCmd WILL SLOWLY

DISCHARGE AIR TEMPERATURE CONTROL

THE INITIAL PROGRAMMED DISCHARGE AIR TEMPERATURE SETPOINT (DaTempSp) WILL BE [55°F] (ADJ).

SPACE TEMPERATURE SENSOR LOCATED IN THE FLOOR SHALL ENABLE COOLING OR HEATING MODE TO MEET THE SPACE SETPOINT TEMPERATURE.

WHEN HEATING MODE IS SELECTED, COOLING WILL BE LOCKED OUT AND ONLY THE HEATING STAGES WILL BE ENABLED. WHEN THE COOLING MODE IS SELECTED, HEATING WILL BE LOCKED OUT AND ONLY THE COOLING STAGES WILL BE ENABLED.

HEATING: THE HEATING STAGES WILL BE ENERGIZED WHEN THE FAN IS RUNNING, AND THE SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT. THE HEATING STAGES WILL BE DE-ENERGIZED AS THE SPACE TEMPERATURE ACHIEVES THE HEATING SETPOINT. COOLING: THE COOLING STAGES WILL BE ENERGIZED WHEN THE FAN IS RUNNING, AND THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT. THE COOLING STAGES WILL BE DE-ENERGIZED AS THE SPACE TEMPERATURE ACHIEVES THE COOLING SETPOINT.

SAFETIES AND ALARMS

THE SUPPLY AND EXHAUST FANS AND THE ASSOCIATED DISCHARGE AND RETURN AIR SMOKE ISOLATION DAMPERS (DalsoDmprCmd AND RalsoDmprCmd) SHALL BE INTERLOCKED WITH THE FIRE ALARM SYSTEM THROUGH A CONTROL MODULE (CM). THE CONTROL MODULE SHALL BE HARD-WIRED INTERLOCKED TO CONTROL THE FANS AND DalsoCmprCmd AND RalsoDmprCmd IN THE "HAND" AND "AUTO" OPERATING MODES. THE DUCT SMOKE DETECTORS LOCATED IN THE SUPPLY AND RETURN AIR OF EACH UNIT WILL BE MONITORED BY THE FIRE ALARM SYSTEM. WHEN PRODUCTS OF COMBUSTION ARE SENSED BY ONE OF THE SUPPLY OR RETURN AIR DUCT SMOKE DETECTORS, THE CONTROL MODULE SHALL STOP THE FANS, CLOSING THE ASSOCIATED SMOKE/ISOLATION DAMPERS WHILE IN THE "HAND" AND "AUTO" OPERATING MODES.

WHEN A FREEZE CONDITION OCCURS AT THE FREEZESTAT (LowLmtTemp), THE SUPPLY FAN SHALL BE STOPPED AND THE SMOKE/ISOLATION DAMPERS SHALL CLOSE THROUGH A HARD-WIRED INTERLOCK. IN ADDITION, THE EXHAUST FAN SHALL BE STOPPED, THE OaDmprCmd AND RIfDmprCmd SHALL CLOSE AND AN ALARM SHALL BE GENERATED. THE LowLmtTemp SHALL BE SET TO TRIP AT 36°F (ADJ) AND MUST BE MANUALLY RESET AT ITS RESPECTIVE LOCATION.

PRESSURE DIFFERENCE INDICATORS, LOCATED AT THE FILTERS, SHALL INDICATE THE DIFFERENTIAL PRESSURE ACROSS THE FILTERS. WHEN THE PRESSURE EXCEEDS AN ADJUSTABLE LIMIT BASED ON MANUFACTURER'S RECOMMENDATIONS TO DENOTE A DIRTY FILTER, AN ALARM SIGNAL WILL BE GENERATED AT THE UNIT.

Inglewood Unified School District

401 S. Inglewood Ave. Inglewood, CA 90301

IUSD Bennett-Kew P-8 Academy

11710 S Cherry Ave. Inglewood, CA 90303

△ Date Issued For 1 11/5/2024 DSA SUBMITTAL

DSA A# 03-124773 FILE # 19-48



WWW.HED.DESIGN



Control Diagrams

CEI	RTIFICATE OF COMPLIANCE - NO	NRESIDENTIAL PERFORMANCE COMPLIANCE METH	HOD			NRCC-PRF-
No	nresidential Performance Compl	iance Method				(Page 1 of 20
Pro	ject Name:			Bennet Kew Da	ate Prep	pared: 2024-08-2
Α. (ieneral Information			9885 18		
1	Project Name	Bennet Kew				
2	Run Title	Title 24 Analysis				
3	Project Location	11710 S Cherry Ave				
4	City	Inglewood	5	Standards Version		Compliance 2022
6	Zip code	90303	7	Compliance Software (ve	ersion)	EnergyPro 9.3
8	Climate Zone	8	9	Building Orientation (de	g)	0
10	Building Type(s)	Nonresidential	11	Weather File		FULLERTON_STYP20.epw
12	Project Scope	New complete scope	13	Number of Dwelling Unit	its	0
14	Total Conditioned Floor Area in Scope (ft²)	7705	15	Total # of hotel/motel ro	ooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type		Natural gas
18	Nonresidential Conditioned Floor Area	7705	19	Total # of Stories (Habita Above Grade)	able	1
20	Residential Conditioned Floor Area	0		-		

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E

Schema Version: rev 20220601

Report Generated: 2024-08-23 14:13:14

(Page 4 of 20)

Compliance ID: EnergyPro-50382-0824-0015

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

Nonresidential Performance Compliance Method

COMPLIES ²									
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)						
Space Heating	3.88	3.1	0.78						
Space Cooling	64.71	60.38	4.33						
Indoor Fans	72.02	94.07	-22.05						
Heat Rejection	0	0	0						
Pumps & Misc.	0	0	0						
Domestic Hot Water	31.26	13.15	18.11						
Indoor Lighting	31.91	26.59	5.32						
Flexibility	2.20	222	82228						
EFFICIENCY COMPLIANCE TOTAL	203.78	197.29	6.49 (3.2%)						
Photovoltaics	-60.59	-148.29	87.7						
Batteries	-3.74		-3.74						
TOTAL COMPLIANCE	139.45	49	90.45 (64.9%)						

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Report Generated: 2024-08-23 14:13:14	
	Schema Version: rev 20220601	Compliance ID: EnergyPro-50382-0824-0015	

9	
CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 7 of 20)

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹
Receptacle	4.92	4.92	6702A
Process	F2220	8 <u>222</u> 6	2 <u>212</u> 73
Other Ltg	1222	1227	
Process Motors		(man)	***
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	15.9	13.29	2.61 (16.4%)

¹ Notes: This table is not used for Energy Code Compliance.		
C6. 'ABOVE CODE' QUALIFICATIONS		
☐ This project is pursuing CalGreen Tier 1	☐ This project is pursuing CalGreen Tier 2	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Report Generated: 2024-08-2
	Schema Version: rev 20220601	Compliance ID: EnergyPro-50382-

08-23 14:13:14 382-0824-0015

RTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
nresidential Performance Compliance Method	(Page 2 of 20)

B. PROJECT SUMMARY							
Table B shows which building copermit application.	components a	re included in the	e performance calculation. I	f ina	licated as not inc	luded, the project must show compliance prescri	ptively if within the
В	uilding Comp	onents Complyir	ng via Performance			Building Components Complying Pre	scriptively
Envelope (See Table C)	Nonres	Performance	Solar Thermal Water		Performance	The following building components are ONLY eligible for pand should be documented on the NRCC form listed if w	
Envelope (See Table G)	MultiFam	Not Included	Heating (See Table I3)	Ø	Not Included	permit application (i.e. compliance will not be shown	[[] [[[[[[[[[[[[[[[[[
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see		Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
Mechanical (see Table H)	MultiFam	Not Included	Table J)	×	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Performance	Covered Process: Laboratory Exhaust (see		Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
Table I)	MultiFam	Not Included	Table J)	Ø	Not Included	Building Components Complying with Man	datory Measures
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	×	Performance	Electrical power systems, commissioning, solar escalator requirements are mandatory and sho on the NRCC form listed if applicable (i.e. com shown on the NRCC-PRF-E.)	uld be documented pliance will not be
*	MultiFam	Not Included			Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Rattery (see Table E)		Performance	Commissioning 120.8	NRCC-CXR-E is required
		Battery (see Table F)		Not Included	Solar and Battery 110.10	NRCC-SAB-E is required	

Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220601	Report Generated: 2024-08-23 14:13:14 Compliance ID: EnergyPro-50382-0824-0015

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 5 of 20)

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TD)
Receptacle	66.84	66.84	
Process	722	1222	820 <u>22</u> 3
Other Ltg			(222)
Process Motors		[800]	
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	206.29	115.84	90.45 (43.8%)

Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Report Generated: 2024-08-23 14:1
	Schema Version: rev 20220601	Compliance ID: EnergyPro-50382-0824-

-		-
	CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Ī	Nonresidential Performance Compliance Method	(Page 8 of 20)

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.8	0.7	0.1			
Space Cooling	15.5	13.6	1.9			5440
Indoor Fans	19.7	25.4	-5.7			
Heat Rejection	(****)	. 	11-11-1		1	
Pumps & Misc.	(222)	0.7575			(27.7)	(555)
Domestic Hot Water	10	4.2	5.8	2223	% <u>172</u> 9	9200
Indoor Lighting	9.5	7.9	1.6	1227		(222)
Flexibility					2	
EFFICIENCY TOTAL	55.5	51.8	3.7	0	0	0
Photovoltaics	-20.5	-49.5	29		12.2	
Batteries	0.2				· · · · · · · · · · · · · · · · · · ·	
ENERGY USE SUBTOTAL	35.2	2.3	32.9	0	0	0
Receptacle	20.4	20.4	0			
Process			***			
Other Ltg						
Process Motors		S###		7570	Section	
ENERGY USE TOTAL	55.6	22.7	32.9	0	0	0

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Compliance ID: EnergyPro-50382-0824-0015

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 3 of 20)

COMPLIES ³			
	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency ¹ (kBtu/ft ² - yr)	Total² (kBtu/ft² - yr)	Total² (kBtu/ft² - yr
Standard Design	203.78	139.45	10.98
Proposed Design	197.29	49	8.37
Compliance Margins	6.49	90.45	2.61
	Pass	Pass	Pass

² Compliance Totals include efficiency, photovoltaics and batteries ³ New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded

Report Generated: 2024-08-23 14:13:14 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-50382-0824-0015 Schema Version: rev 20220601

	_
CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 6 of 20)

COMPLIES ²			
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)
Space Heating	0.53	0.42	0.11
Space Cooling	2.5	2.25	0.25
Indoor Fans	6	7.8	-1.8
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	2.55	1.04	1.51
Indoor Lighting	2.57	2.14	0.43
Flexibility		5 <u>151</u> 5	P1994
EFFICIENCY COMPLIANCE TOTAL	14.15	13.65	0.5 (3.5%)
Photovoltaics	-2.19	-5.28	3.09
Batteries	-0.98	122	-0.98
TOTAL COMPLIANCE	10.98	8.37	2.61 (23.8%)

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000
	Schema Version: rev 20220601

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E (Page 9 of 20) Nonresidential Performance Compliance Method

C8. ENERGY USE INTENSIT	11 (201)			
	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI ¹	33.7	31.97	1.73	5.13
NET EUI ¹	24.62	10.05	14.57	59.18

• The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

 DesignedOccupancyUsedForCalculatingVen
501.9 14 50 40

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception ¹	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
29		Standard (14-17%)	Fixed	none	false	180	Degrees	22	4.85	96	100

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

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Inglewood Unified School District

401 S. Inglewood Ave. Inglewood, CA 90301

IUSD Bennett-Kew

11710 S Cherry Ave. Inglewood, CA 90303

△ Date Issued For 1 11/5/2024 DSA SUBMITTAL



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NRCC-PRF-E
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01	02	03
Building Occupancy Type* (From Table 140.10-A/B and 170.2-U/V)	Conditioned Floor Area (ft ²)	Unconditioned Floor Area (ft ²)
Grocery	0	0
High-Rise Multifamily	0	0
Office, Financial Institutions, Unleased Tenant Space	0	0
Retail	0	0
School	7705	0
Warehouse	0	0
Auditorium, Convention Center, Hotel/Motel, Library, Medical Office Building/Clinic, Restaurant, Theater	0	0
None	0	0

*Building Occupancy Types are defined in Section 100.1 of the Energy Code

¹ Status: N - New, A - Altered, E - Existing

02	03	04
Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Window to Wall Ratio (%)
964	396	41.08
1380	630	45.65
0	0	0
1380	450	32.61
3724	1476	39.63
7705	0	0
	Total Gross Surface Area (ft²) 964 1380 0 1380 3724	Total Gross Surface Area (ft²) Total Fenestration Area (ft²) 964 396 1380 630 0 0 1380 450 3724 1476

²East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE), ³South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE), ⁴West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),

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TIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
residential Performance Compliance Method	(Page 11 of 20)

		01							02	
		Building Stor	y Name						Air Barrier	
		Com-Flo	or 1						No air barrier	
-						317				
	FACE ASSEMBLY S	And and the second			-					
01	02	03	04	05	0	6	07	08	09	10
Surface Name	Construction	Area (ft²)	Framing	Cavity	Continuo	us R-Value	Units	Value	Description of Assembly Layers	Status ¹
Surface Name	Туре	Area (It-)	Туре	R-Value	Interior	Exterior	Onits	value	Description of Assembly Layers	Status
R 218	Exterior Wall	3,724	Wood	21	N/A	N/A	U-factor	0.0691	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in.	N
R 3011	Roof	7,705	Wood	30	N/A	N/A	U-factor	0.0418	AsphaltShingles0_25In Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Composite-2 Gypsum Board - 1/2 in.	N
Slab13	Underground Floor	7,705	N/A	0	N/A	N/A	F-factor	0.61	Slab Type =Unheated slab on grade Insulation Orientation =12 in vertical Insulation R-Value =R-5	N
Partition15	Interior Wall	1,995	Wood	13	N/A	N/A	U-factor	0.0952	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-3 Gypsum Board - 1/2 in.	N

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1 Status: N - New, A - Altered, E - Existing

	CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
	Nonresidential Performance Compliance Method	(Page 12 of 20)
- 5		

01	02	03	04	05	06	07	08	
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method ¹	Assembly Method	Area (ft²)	Overall U-factor	Overall SHGC	Overall VT	Sta
New fenestration	Vertical fenestration Fixed window N/A	NFRC	Manufactured	1,476	0.36	0.25	0.5	200111

values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.

OVERHANG DETAILS						
01	02	03	04	05	06	07
Fenestration Tag/ID	Azimuth	Depth (ft)	Height from Top of Sill to Overhang (ft)	Right Extent (ft)	Left Extent (ft)	Flap Height
Window9	270	6	9.5	10	10	N/A
Window19	270	6	9.5	10	10	N/A
Window26	270	6	9.5	10	10	N/A
Window37	0	20	9.8	10	10	N/A
Window39	90	6	10	10	10	N/A
Window43	90	6	9.5	10	10	N/A
Window50	90	6	10	10	10	N/A

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 13 of 20)

01	02	03	04	05	06	07	08	09	10	11	12	
				Heating Cooling		Heating			Cooling			
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status ¹	
RTU-1	Single Zone Heat Pump (SZHP) Air System	1	49.25	0	COP HSPF2	3.45 7.5	62.29	EER2 SEER2	12.2 14	No Economizer	N	
RTU-2	Single Zone Heat Pump (SZHP) Air System	1	49.25	0	COP HSPF2	3.45 7.5	62.29	EER2 SEER2	12 14.3	Differential DB	N	
RTU-3	Single Zone Heat Pump (SZHP) Air System	1	49.25	0	COP HSPF2	3.45 7.5	62.29	EER2 SEER2	12 14.3	Differential DB	N	
RTU-4.1 & RTU4.2	Single Zone Heat Pump (SZHP) Air System	2	49.25	0	COP HSPF2	3.45 7.5	62.29	EER2 SEER2	12 14.3	Differential DB	N	
RTU-5	Single Zone Heat Pump (SZHP) Air System	1	49.25	0	COP HSPF2	3.45 7.5	62.29	EER2 SEER2	12 14.3	Differential DB	N	
RTU-6	Single Zone Heat Pump (SZHP) Air System	1	49.25	0	COP HSPF2	3.45 7.5	62.29	EER2 SEER2	12 14.3	Differential DB	N	
RTU-7	Single Zone Heat Pump (SZHP) Air System	1	49.25	0	COP HSPF2	3.45 7.5	62.29	EER2 SEER2	12 14.3	Differential DB	N	

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 14 of 20)

01	02	03	04	05	06	07	08	09	10	11	12	1
		Design OA		Supp	oly Fan			R	eturn / Relief F	an		120000
Name or Item Tag	Qty	CFM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Stat
RTU-1	1	555	1,900	0.8	ВНР	Constant Vol	N/A	1,900	0.5	ВНР	Constant Vol	N
RTU-2	1	555	1,900	0.8	ВНР	Constant Vol	N/A	1,900	0.5	ВНР	Constant Vol	N
RTU-3	1	555	1,900	0.8	ВНР	Constant Vol	N/A	1,900	0.5	ВНР	Constant Vol	N
RTU-4.1 & RTU4.2	2	390	1,900	0.8	ВНР	Constant Vol	N/A	1,900	0.5	ВНР	Constant Vol	N
RTU-5	1	555	1,900	0.8	ВНР	Constant Vol	N/A	1,900	0.5	ВНР	Constant Vol	N
RTU-6	1	555	1,900	0.8	ВНР	Constant Vol	N/A	1,900	0.5	BHP	Constant Vol	N
RTU-7	1	555	1,900	0.8	BHP	Constant Vol	N/A	1,900	0.5	BHP	Constant Vol	N

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n) ¹	Other Special Features and Controls
RTU-2	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential DB
RTU-3	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential DB
RTU-4.1 & RTU4.2	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Contro Differential DB
RTU-5	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Contro Differential DB
RTU-6	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Contro Differential DB

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 15 of 20)

00.00	8 1	Academic St.	2 1
01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n) ¹	Other Special Features and Controls
RTU-7	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Contro Differential DB
Bennet Kew1 - SHW	Service Hot Water	N/A	Fixed Temperature Control

¹ Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

01	02	03	04	05	06	07
Zone Name		Mechanica	al Ventilation	Conditioned Area (sf)	DCV or Occupant Sensor	
Zone Name	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM	Collationed Area (SI)	Controls, or Both
1-Zone-1	Education - Classrooms (ages 5-8)	37	555	0	964	N/A
2-Zone-2	Education - Classrooms (ages 5-8)	37	555	0	964	DCV
3-Zone-3	Education - Classrooms (ages 5-8)	37	555	0	964	DCV
4-Zone-4	Education - Classrooms (ages 5-8)	52	780	0	1921	DCV
5-Zone-5	Education - Classrooms (ages 5-8)	37	555	0	964	DCV
6-Zone-6	Education - Classrooms (ages 5-8)	37	555	0	964	DCV
7-Zone-7	Education - Classrooms (ages 5-8)	37	555	0	964	DCV

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01	02	03	04	05	06	07	08	09	10	11	12
System ID			Rated Capa	city (kBtuh)	Airflow (cfm)			Fan			
	System Type	Qty	Heating	Cooling	Design	MIn.	Min. Ratio	Power	Power Units	Cycles	VSD
1-Zone-1-Trm	Uncontrolled	1	N/A	N/A	1,900	N/A	0	N/A	N/A	N/A	
2-Zone-2-Trm	Uncontrolled	1	N/A	N/A	1,900	N/A	0	N/A	N/A	N/A	
3-Zone-3-Trm	Uncontrolled	1	N/A	N/A	1,900	N/A	0	N/A	N/A	N/A	
4-Zone-4-Trm	Uncontrolled	2	N/A	N/A	3,800	N/A	0	N/A	N/A	N/A	
5-Zone-5-Trm	Uncontrolled	1	N/A	N/A	1,900	N/A	0	N/A	N/A	N/A	
6-Zone-6-Trm	Uncontrolled	1	N/A	N/A	1,900	N/A	0	N/A	N/A	N/A	
7-Zone-7-Trm	Uncontrolled	1	N/A	N/A	1,900	N/A	0	N/A	N/A	N/A	

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input	Rated Input Unit	Efficiency	Efficiency Unit	Tank Insulation R-value Int/Ext	Standby Loss Fraction	1st Hr. Rating or Flow Rate (gal)	Heat Pump Type	Tank Location or Ambient Condition
A. O. Smith IPTS-50 2**2	Electricity	Storage	1	50	5.86	kW	3.8	UEF	N/A	N/A	1	Heat Pump Split Water Heater	N/A

03	04	05	06	07	08	09				
Area Description	Area Category Primary Function Area	[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[
Whole Building	All Other Space Types	Required	Required	Required	Required	Required				
2	JIRED CERTIFICATES OF INSTA									
elections made by Docum nd provided to the building	nentation Author indicate wh	nich Certificates of Installation	•	e features to be recognized (for compliance. These docu	ments must be retained				
elections made by Docum nd provided to the buildin Building Compone	nentation Author indicate wh ng inspector during construc ent	nich Certificates of Installation tion and can be found online	9	e features to be recognized (or compliance. These docu	ments must be retained				
elections made by Docum nd provided to the building	nentation Author indicate wh ng inspector during construc ent	nich Certificates of Installation	9		or compliance. These docu	ments must be retained				

Lighting Control Credits

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	
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Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per 130.1)

Installed Lighting Power

3852.5

3852.5

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

7705

³Lighting information for existing spaces modeled is not included in this table

Mandatory Demand Response 110.12(c)

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

Nonresidential Performance Compliance Method

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

Occupancy Type¹

Classroom, Lecture, or

Training Vocational

Building Totals:

²See NRCC-LTI--E for unconditioned spaces

¹See Table 140.6-C

Building Level Controls

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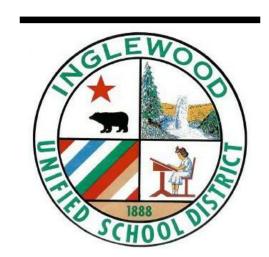
CERTIFICATE OF COMPLIAN	CE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-
Nonresidential Performance	e Compliance Method	(Page 18 of 20
Nonresidential Performance	e Compliance Method	(I

	on Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained ector during construction and can be found online
Building Component	Form/Title
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-E - For all buildings with Plumbing Systems
	NRCI-SAB-E - Solar Water Heating, PV and Battery Storage Systems
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)

	n Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided on struction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).							
Building Component	Form/Title & System Name(s)							
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration							
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.							
Indoor Lighting	NRCA-LTI-03-A - Automatic Daylight Controls.							
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap							
	RTU-1, RTU-2, RTU-3, RTU-4.1 & RTU4.2, RTU-5, RTU-6 and RTU-7.							
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC							
iviechanicai	RTU-1, RTU-2, RTU-3, RTU-4.1 & RTU4.2, RTU-5, RTU-6 and RTU-7.							
Mechanical	NRCA-MCH-05-A - Air Economizer Controls							
iviechanicai	RTU-2, RTU-3, RTU-4.1 & RTU4.2, RTU-5, RTU-6 and RTU-7.							
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.							
	RTU-1, RTU-2, RTU-3, RTU-4.1 & RTU4.2, RTU-5, RTU-6 and RTU-7.							
Machanical	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units							
Mechanical	RTU-2, RTU-3, RTU-4.1 & RTU4.2, RTU-5, RTU-6 and RTU-7.							

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Inglewood Unified School District

401 S. Inglewood Ave. Inglewood, CA 90301

IUSD Bennett-Kew

11710 S Cherry Ave. Inglewood, CA 90303

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Shut-Off Controls 130.1(c) & 160.5(b)4C

NRCC-PRF-E

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(Watts)

Additional (Custom) Allowance

Area Category Footnotes Area Category Footnotes

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained

There are no Certificates of Verification applicable to this project

Nonresidential Performance Compliance Method

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

and provided to the building inspector during construction and can be found online

NRCC-PRF-E

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-08-23 14:13:14 Compliance ID: EnergyPro-50382-0824-0015 Schema Version: rev 20220601 STATE OF CALIFORNIA **Nonresidential Building Commissioning** CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-CXR-E (Page 2 of 6) Project Name: Bennett Kew C. COMPLIANCE RESULTS Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per 120.8. This table is not editable by the user. If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance. 03 | 04 | 05 | 06 | 07 | 08 Functional Design Kickoff Review Basis of Design | Design Review Performance Plan and Training Requirements Testing Table G Table H Table I Table J Table K Table L COMPLIES Yes COMPLIES 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. Generated Date/Time: Documentation Software: EnergyPro CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 EnergyPro-50382-0924-0018 Schema Version: rev 20220101 Report Generated: 2024-09-30 09:23:13 STATE OF CALIFORNIA Nonresidential Building Commissioning CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-CXR-E (Page 5 of 6) Project Name: Bennett Kew K. FUNCTIONAL PERFORMANCE TESTING This section does not apply to this project. L. DOCUMENTATION AND TRAINING This section does not apply to this project M. COMMISSIONING REPORT This section does not apply to this project. N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION There are no forms required for this project. O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no forms required for this project.

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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EnergyPro-50382-0924-0018

Compliance ID

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 20 of 20) **Documentation Author's Declaration Statement** 1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Ocumentation Author Signature: Signature Date: Company: HED CEA/HERS Certification Identification (if applicable): City/State/Zip: Responsible Person's Declaration statement I certify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I understand that a registered 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, and I will take the necessary steps to accomplish this requirement. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements. Responsible Designer Name: Responsible Designer Signature: Company: HED Address: 550 South Hope St., Suite 2500 Date Signed: City/State/Zip: Los Angeles, CA 90071 License #: Phone: 213.542.4578 Responsible Designer Name: Sharo Saremi Responsible Designer Signature: Company: HED Address: 550 South Hope St., Suite 2500 Date Signed: City/State/Zip: Los Angeles, CA 90071 License #: Phone: 213.542.4578 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-08-23 14:13:14 Compliance ID: EnergyPro-50382-0824-0015 Schema Version: rev 20220601

NRCC-CXR-E CERTIFICATE OF COMPLIANCE (Page 3 of 6) Project Name: Bennett Kew 9/30/2024 F. DESIGN REVIEW KICKOFF MEETING This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)1 and demonstrates compliance with design review kickoff quirements per 120.8(d)2. This meeting should occur during the Schematic Design phase of the project. Design Review Kickoff Meeting Details 0001-01-01 01 Date of Design Review Kickoff Meeting 02 Meeting Attendees: (one person may play multiple roles) Owner/Facility Manager: Design Reviewer(s) Design Architect/ Engineer(s): Project Manager: Certified Acceptance Test Tech(s): ☐ Energy/ T24 Part 6 Consultant: Commissioning Provider: Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)1 The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or Do the Design Reviewer(s) mee under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code. these qualifications? In addition, for buildings with >= 10,000 ft² but < 50,000², the design reviewer(s) shall be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect, or contractor 04 The design reviewer(s) for this project will be: Designer Preliminary Construction Schedule Start Date Completion Date 5 Schematic Design 0001-01-01 0001-01-01 06 Design Development 0001-01-01 0001-01-01 07 Construction Documents 0001-01-01 0001-01-01 0001-01-01 08 Construction 0001-01-01 0001-01-01 09 Building Turnover 0001-01-01 Project Goals Related to Energy Efficiency 10 Operational Costs Desired Building Lifespan 2 Equipment Lifecycle 3 Project Energy Efficiency Goals Generated Date/Time: Documentation Software: EnergyPro CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 EnergyPro-50382-0924-0018 Schema Version: rev 20220101

STATE OF CALIFORNIA

Nonresidential Building Commissioning

STATE OF CALIFORNIA Nonresidential Building Commissioning CALIFORNIA ENERGY COMMISSION NRCC-CXR-E CERTIFICATE OF COMPLIANCE Project Name: Bennett Kew (Page 6 of 6 11710 S Cherry Ave Date Prepared 9/30/2024 DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. A/ HERS Certification Identification (if applicable): RESPONSIBLE PERSON'S DECLARATION STATEMENT certify the following under penalty of perjury, under the laws of the State of California The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirement of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable ponsible Designer Name: Responsible Designer Signature 2024-09-30 550 South Hope St., Suite 2500 213.542.4578 Los Angeles CA 90071

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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CALIFORNIA ENERGY COMMISSION

Report Generated: 2024-09-30 09:23:13

STATE OF CALIFORNIA **Nonresidential Building Commissioning** CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-CXR-E This document is used to demonstrate compliance with mandatory commissioning requirements in 120.8 for nonresidential buildings and hotel/motel or mixed-use buildings with nonresidential spaces. This document does not demonstrate compliance with commissioning requirements within Title 24, Part 11, which need to be documented separately if they Project Name: Bennett Kew (Page 1 of 6) 11710 S Cherry Ave Date Prepared: Project Address: 9/30/2024 A. GENERAL INFORMATION 01 Project Location (city) Inglewood 04 Building Size (ft²)

07 Climate Zone

02 Occupancy Type

J. COMMISSIONING PLAN

This section does not apply to this project.

Newly constructed

5. PK	OJECT SCOPE		
Basea	l on project information provided in Table	A, Table B indicat	es which commissioning related requirements apply per 120.8. Table B is not editable by the user.
Comi	missioning Requirements per 120.8		
01	Table F: Design Review Kickoff	120.8(d)1 and 120.8(d)2	The design review kickoff meeting establishes who will play the role of the design reviewer, the project schedule and identify owner's requirements. This meeting should be conducted during schematic design.
02	Table G: Owner's Project Requirements (OPR)	120.8(b)	This requirement does not apply.
03	Table H: Basis of Design (BOD)	120.8(c)	This requirement does not apply.
04	Table I: Design Review	120.8(d) and 120.8(e)	The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and commissioning process. For projects with >= 10,000 ft ² of nonresidential conditioned floor area, the design review is for adherence with the Owner's Project Requirements (OPR) and Basis of Design (BOD). This should be conducted during design.
05	Table J: Commissioning Plan	120.8(f)	This requirement does not apply.
06	Table K: Functional Performance Testing	120.8(g)	This requirement does not apply.
07	Table L: Documentation and Training	120.8(h)	This requirement does not apply.
08	Table M: Commissioning Report	120.8(i)	This requirement does not apply.

< 10,000 ft²

Unitary or packaged equipment each serving one

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 EnergyPro-50382-0924-0018
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Nonresidential Building Commissioning

CERTIFICATE OF COMPLIANCE

Project Name: Bennett Kew Report Page: (Page 4 of 6)
Date Prepared: 9/30/2024

F. DESIGN REVIEW KICKOFF MEETING 14 Envelope Goals 5 HVAC System Goals Indoor Lighting System Goals Outdoor Lighting System Goals 18 Water Heating System Goals Equipment and System Specifications Operations and Maintenance G. OWNER'S PROJECT REQUIREMENTS (OPR) This section does not apply to this project. H. BASIS OF DESIGN (BOD) This section does not apply to this project. I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST This table is only completed if a design review document is not attached to permit application to demonstrate compliance with 120.8(b) and 120.8(e). For buildings with >= 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G.) and the Basis of Design Documents (Table H.). For buildings with < 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table F. during the Design Review Kickoff. Attaching Completed Design Review Documentation?

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with prescriptive PV and battery requirements in 140.10/170.2 for nonresidential, multifamily and mixed-use buildings and prescriptive solar thermal requirements in 170.2(d)3C for multifamily and hotel/ motel occupancies. When PV/battery/solar thermal requirements don't apply or are traded using the performance approach, this document demonstrates compliance with mandatory solar readiness requirements in 110.10/160.8 for newly constructed buildings which are either multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with solar readiness in 110.10/160.8 for additions to nonresidential, multifamily or hotel/motel building types which add more than 2,000 ft² of roof area. Alterations, or additions of less than 2,000 ft² of roof area, are not required to comply with solar readiness, solar PV and battery requirements and do not need to complete this document.

Project Name: Bennett Kew

Report Page:

(Page 1 of 4)

Project Address:

11710 S Cherry Ave

Date Prepared:

9/30/2024

A. GENERAL INFORMATION

01 Project Location (city) Inglewood 04 Building Occupancies All Other Occupancies

02 Climate Zone 8 05 Construction Type New construction

03 Conditioned Floor Area (ft²) 7705 06 Number of Stories Bldg <= 3 stories

B. PROJECT SCOPE

The compliance path the project is using to comply per 110.10(b)1B/ 140.10/ 170.2(g and h) is indicated below.

Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/ 170.2(g and h)

O1

Provided PV system and battery storage sized per 140.10/ 170.2 (g and h)

Exception to PV and Battery: Not enough Solar Access Roof Area

Cexception to PV and Battery: Required PV < Access Roof Area

Exception to PV and Battery: Required PV < The required PV system size is less than 4 kW dc as documented in Table J.

The required PV system size is less than 4 kW dc as documented in Table J.

Exception to PV and Battery: Required PV < 4kW

The required PV system size is less than 4 kW dc as documented in Table J..

Exception to PV and Battery: No contiguous Solar Access Roof Area

The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J.

Solar Access Roof Area

Exception to PV and Battery: Can't meet snow load

Exception to PV and Battery: Can't meet snow load

Exception to PV and Battery: Multi-tenant without VNEM or Community Solar

The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads.

The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program.

The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Inglewood Unified School District

401 S. Inglewood Ave. Inglewood, CA 90301

USD Bennett-Kew P-8 Academy

11710 S Cherry Ave. Inglewood, CA 90303

△ Date Issued For
1 11/5/2024 DSA SUBMITTAL

DSA A# 03-124773 FILE # 19-48

550 South Hope Street Suite 2500 Los Angeles, California 90071 USA (213) 542-4500 WWW.HED.DESIGN



T24 Sheets

N/LQ02

Compliance with Solar Thermal Water Heating Requirements in 170.2(d)3C (Multifamiily and hotel/ motel occupancies only) The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H. Compliance meets Exception 2 to solar ready requirements in 110.10(b).

C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance or see the applicable Table referenced below. Smart Tstat and Alternative Compliance Results Allocated Solar Zone Installed PV System Installed SWH System EE Measure JA5 Alternative Compliant Energy Designed DC Minimum Designated Minimum DC ed Solar Minimum Power Rating Savings Fraction Area (ft²) Power Rating Solar Savings Thermostat Efficiency COMPLIES Area (ft²) (Watts) Specified? Measure (Watts) Fraction (See Table I) (See Tables G or J) (See Table H) (See Table F) Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c). Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per COMPLIES

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 is includes remarks made by the permit applicant to the Authority Having Jurisdiction. Documentation Software: EnergyPro Generated Date/Time: CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-50382-0924-0018 Report Generated: 2024-09-30 09:23:10 Schema Version: rev 20220101

STATE OF CALIFORNIA Solar And Battery CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-SAB-E Project Name: Bennett Kew (Page 3 of 4)

F. ALLOCATED SOLAR ZONE This section does not apply to this project. G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION This section does not apply to this project. H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS This section does not apply to this project. I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION This section does not apply to this project. J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS This section does not apply to this project. K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION 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 Table E. Additional Remarks and ExceptionalConditionMessageCCSABE += UserChangedSelectionInCl. These documents must be provided to the building inspector during construction and can be found online NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

There are no forms required for this project. Generated Date/Time: Documentation Software: EnergyPro CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-50382-0924-0018 Report Generated: 2024-09-30 09:23:10 Schema Version: rev 20220101

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

STATE OF CALIFORNIA Solar And Battery CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-SAB-E (Page 4 of 4 Project Name: Bennett Kew 11710 S Cherry Ave Date Prepared

I certify that this Certificate of Compliance documentation is accurate and complete. cumentation Author Name: ocumentation Author Signature: ignature Date: A/ HERS Certification Identification (if applicable): 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) . 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. onsible Designer Name: onsible Designer Signature: 2024-09-30 550 South Hope St., Suite 2500 City/State/Zip: Los Angeles CA 90071 213.542.4578

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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Documentation Software: EnergyPro

Inglewood Unified

School District

401 S. Inglewood Ave. Inglewood, CA 90301

11710 S Cherry Ave. Inglewood, CA 90303

△ Date Issued For 1 11/5/2024 DSA SUBMITTAL

DSA A# 03-124773 FILE # 19-48





T24 Sheets

MECHANICAL AND PLUMBING EQUIP. NOTES

- 1. FIELD COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT PRIOR TO THE ROUGH-IN OF THE ELECTRICAL WORK FOR MECHANICAL EQUIPMENT.
- 2. ALL OVERCURRENT PROTECTIVE DEVICES AND FEEDER AMPACITIES FOR THE MECHANICAL EQUIPMENT SHALL BE VERIFIED WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO ROUGH-IN OF THE ELECTRICAL WORK AND ORDERING OF MATERIALS FOR MECHANICAL WORK. ALL DISCREPANCIES SHALL BE BROUGHT UP TO THE ATTENTION OF THE ENGINEER AND ARCHITECT PRIOR TO ROUGH-IN OF ELECTRICAL WORK.
- 3. INCLUDE ALL COST FOR ANY REVISIONS IN MECHANICAL EQUIPMENT OVERCURRENT PROTECTIVE DEVICES AND FEEDER AMPACITIES. CONTROL WIRING, RELAYS, OUTLETS, ETC., WHERE THE SPECIFIED MECHANICAL EQUIPMENT ARE SUBSTITUTED WITH EQUIPMENT WITH DIFFERENT ELECTRICAL REQUIREMENTS.
- 4. FURNISH AND INSTALL ALL LINE AND LOW VOLTAGE CONDUIT, CONDUCTORS, DEVICES, OUTLETS FOR HEATING, VENTILATING, AIR CONDITIONING AND PLUMBING EQUIPMENT PER MECHANICAL DRAWINGS AND SPECIFICATIONS.
- 5. PROVIDE 3/4" CONDUIT FROM EACH INDOOR FAN/COIL UNIT TO THE RELATED OUTDOOR UNIT ON THE ROOF FOR CONTROL WIRING. REFER TO MECHANICAL
- 6. PROVIDE DAISY CHAIN OF 3/4"CONDUITS UP TO THE ROOF AT EACH AC UNIT AND EXHAUST FAN (FOR EMS COMMUNICATION LINK CABLE). STUB UP AND FLASH AND CAP TWO CONDUITS AT EACH ROOF EQUIPMENT. THE CONDUIT BETWEEN UNITS SHALL BE BELOW THE ROOF AND CONTINUOUS WITH NO FITTINGS. (NOT REQUIRED AT OUTDOOR SPLIT SYSTEM UNITS). CONTINUE THE DAISY CHAIN OF 3/4"CONDUIT DOWN TO EACH INDOOR FAN COIL UNIT, TO THE ELECTRICAL ROOM, (STUB TWO CONDUITS AT EACH LOCATION) AND EXTEND TO A JUNCTION BOX IN THE CONTROL ROOM. REFER TO MECHANICAL DRAWINGS.

CALIFORNIA PLAN CHECK NOTES

- 1. ELECTRICAL EQUIPMENT SHALL BE LISTED BY A ELECTRICAL TESTING LABORATORY RECOGNIZED BY THE AUTHORITY HAVING JURISDICTION OR APPROVED BY THE DEPARTMENT.
- 2. NO PIPING. DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT.
- 3. FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDERS.

CALIFORNIA EQUIPMENT **ANCHORAGE NOTES**

- 1. ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2010 CBC, SECTION 1615A.1.20, AND 1615A.1.21 AND ASCE 7-05 SECTIONS 13.3, 13.4, 13.6, AND CHAPTER 6.
- THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT TO BE DETAILED ON THE PLANS. AND THE PROJECT INSPECTOR WILL VERIFY THAT THESE ITEMS (EQUIPMENT) HAVE BEEN ANCHORED. A. EQUIPMENT WEIGHING LESS THAN 400 POUNDS SUPPORTED DIRECTLY ON
- THE FLOOR OR ROOF. B. FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH ASCE 7-05,
- SECTION 13.5. C. TEMPORARY OR MOVABLE EQUIPMENT WITH FLEXIBLE CONNECTION TO POWER OR UTILITIES.
- D. EQUIPMENT LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS. E. EQUIPMENT LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM WALL.
- 3. FOR THOSE ELEMENTS THAT DO NO REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER.
- 4. PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES: PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-05 SECTION 13.3 AS DEFINED IN ASCE 7-05 SECTION 13.6.8. 13.6.7. AND 13.6.5.5 ITEM 6 RESPECTIVELY.
- 5. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPA#, SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.
- 6. COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM.
- 7. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACED LOADS.

APPLICABLE CODES

2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R., PART 2 (2021 INTERNATIONAL BUILDING CODE AND 2021 CALIFORNIA AMENDMENTS AND 2022 L.A. CITY AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R., PART 3 (2021 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA) AND 2021 CALIFORNIA AMENDMENTS AND 2022 L.A. CITY AMENDMENTS)

2022 CALIFORNIA ENERGY CODE (CEC), TITLE 24 C.C.R., PART 6

2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN) PART 11, TITLE

2022 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 C.C.R., PART 12 TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS.

SCOPE OF WORK

BRING POWER FEED FROM EXISTING ELECTRICAL SERVICE TO A NEW 8,662 SF 1-STORY CLASSROOM BUILDING AND DISTRIBUTE THE POWER TO LIGHTING, HVAC, AND MISCENALEOUS LOADS.

LIGHTING CONTROL NOTES

- 1. MOTION SENSORS ARE TO BE WIRED DOWNSTREAM OF DAYLIGHTING CONTROLS AND LUMINAIRES.
- 2. PROVIDE QUANTITY AND TYPE OF SWITCHES NOTED ON PLAN.
- 3. UNLESS OTHERWISE SHOWN ON DRAWING, CIRCUIT ALL LUMINAIRES OF THE SAME TYPE IN A ROOM TO THE SAME SWITCH.
- 4. MOTION SENSORS AND PHOTOCELLS SHOWN ON PLANS ARE FOR SCHEMATIC PURPOSES ONLY. FINAL LAYOUT OF MOTION SENSORS AND PHOTOCELLS FOR

THE DAYLIGHTING SYSTEM SHALL BE PROVIDED BY THE VENDORS OF SAID

- 5. WALL SWITCH TYPE MOTION SENSORS SHALL BE SET TO "MANUAL-ON/AUTO-OFF" OPERATION. WHERE SUCH A SENSOR IS SHOWN IN A ROOM WITH AN EXTERIOR WINDOW, THE WALL SWITCH MOTION SENSOR SHALL INCLUDE AN INTEGRATED PHOTOCELL FOR DAYLIGHTING CONTROL.
- 6. CEILING MOUNTED OCCUPANCY SENSORS WITHIN ENCLOSED ROOMS MAY NOT HAVE BEEN SHOWN "CONNECTED" FOR DRAWING LEGIBILITY. CEILING MOUNTED OCCUPANCY SENSORS HAVE BEEN SHOWN "CONNECTED" WHERE NECESSARY TO DEFINE THE OVERALL AREA OF COVERAGE. (IE. CORRIDORS
- 7. WHERE MULTIPLE CEILING MOUNTED OCCUPANCY SENSORS ARE INDICATED WITHIN A ROOM, THEY SHALL BE INTERCONNECTED TO COMMON CONTROL
- 8. CONNECT WALL SWITCH(S) DOWN STREAM OF AREA OCCUPANCY SENSOR OR POWER PACK CONTROL WITHIN A DESIGNATED AREA OR ROOM.
- 9. CONNECT ALL ROOM LIGHTING, INCLUDING FIXED MOUNTED TASK LIGHTING TO OCCUPANCY SENSOR(S) OR POWER PACK CONTROLLER(S), EXCEPT WHERE ALTERNATE METHOD OF AUTOMATIC CONTROL IS INDICATED (IE TIMER, PHOTOCELL OR PROGRAM SCHEDULED RELAY)
- 10. PROVIDE TWO CIRCUIT POWER PACK AND/OR ADDITIONAL SLAVE POWER PACK UNIT(S) WHERE NECESSARY FOR CONTROL OF MULTIPLE CIRCUITS, WITHIN A CONTROL ZONE OR FOR INTERCONNECTION TO THE BUILDING MANAGEMENT SYSTEM (WHERE INDICATED).
- 11. MOTION SENSORS IN CORRIDORS SHALL BE SET TO "AUTO-ON" OPERATION.
- 12. PROVIDE DIMMABLE LED DRIVERS. CONNECT DIMMABLE FIXTURES TO DAYLIGHTING SYSTEM WHERE SPECIFIED TO DO SO.
- 13. ALL LUMINAIRES NOT CONTROLLED BY MOTION SENSORS SHALL BE CONTROLLED BY THE BUILDINGS LIGHTING CONTROL SYSTEM. THIS SYSTEM SHALL PROVIDE AUTOMATIC SHUTOFF FOR ALL LUMINAIRES NOT CONTROLLED BY MOTION SENSORS BASED ON A SCHEDULED PROGRAM. THE SYSTEM SHALL BE WEB ENABLED, WITH BACKNET COMMUNICATIONS FOR CONNECTION TO THE BUILDING MANAGEMENT SYSTEM FOR TRENDING, AND NOTIFICATION OF OCCUPIED SPACE. SEE SPECIFICATION SECTIONS 260923 AND 265100 FOR LIGHTING CONTROL SYSTEM INFORMATION
- 14. ALL CONTROLS AND ASSOCIATED COMPONENTS SHALL BE UL LISTED FOR THEIR USE.
- 15. OCCUPANCY SENSOR TIME DELAY SHALL BE COORDINATED WITH OWNER AND LIGHTING CONTROL VENDOR. TIME DELAY SHALL NOT BE LESS THAN 10 MINUTES AND SHALL NOT BE GREATER THAN 30 MINUTES.
- 16. ALL EXTERIOR AND SITE LUMINAIRES SHALL BE PHOTOCELL CONTROLLED. SEE CIRCUITING ON PLANS TO DETERMINE SPECIFIC CIRCUITS AND RELAYS CONTROLLED ASSOCIATED WITH EXTERIOR/SITE LIGHTING.
- 17. CONTRACTOR SHALL VERIFY DIMMING SWITCH COMPATIBILITY WITH SPECIFIED LUMINAIRES PRIOR TO ORDERING DIMMING SWITCHES AND LUMINAIRES.
- 18. THE CONTRACTOR OR LIGHTING CONTROL MANUFACTURER SHALL SUBMIT A NARRATIVE AND SHOP DRAWINGS DESCRIBING THE OPERATION OF THE SYSTEM AS PART OF THE SHOP DRAWING PROCESS. THIS NARRATIVE SHALL DESCRIBE TYPICAL ROOM FUNCTIONALITY FOR SIMILAR ROOMS, AND SHALL INDICATE MANUAL CONTROLS, AUTOMATIC CONTROLS, AND SCHEDULE/TIME DELAY INTERVALS. NARRATIVE SHOULD ACCOUNT FOR ALL ASPECTS OF THE LIGHTING CONTROL SYSTEM AS DESCRIBED IN THESE DRAWINGS.
- 19. LIGHTING CONTROL DEVICES SHOWN ON PLANS ARE TO ILLUSTRATE INTENT OF CONTROL AND AREA OF CONTROL. COMBINING MULTIPLE CONTROL DEVICES IN A SPACE SHOWN ON THE PLANS INTO A SINGLE DEVICE IS ACCEPTABLE PROVIDED THE FOLLOWING CONDITIONS ARE MET: A. ALL OF THE FUNCTIONALITY OF THE ORIGINAL SPECIFIED PRODUCT MUST
- BE PROVIDED. B. THE PROPOSED DEVICES ARE OF AN APPROVED LIGHTING CONTROL
- MANUFACTURE LISTED IN THE SPECIFICATIONS. C. THE CONTRACTOR MUST SUBMIT ALTERNATE DEVICE AND LAYOUT TO THE ENGINEER FOR APPROVAL AS PART OF THE SUBMITTAL/SHOP-DRAWING
- D. THE CONTRACTOR ADHERES TO ALL REQUIREMENTS LISTED IN THE SPECIFICATION RELATED TO SUBMITTING SUBSTITUTIONS.

DAYLIGHT CONTROL NOTES

- 1. ALL LUMINAIRES WITHIN 15 FEET OF A WINDOW AND 8 FEET OF A SKYLIGHT SHALL BE CONTROLLED BY A DAYLIGHTING SYSTEM.
- 2. COURTYARD SHALL BOTH BE CONTROLLED BY A DAYLIGHTING CONTROL SYSTEM. THE DAYLIGHTING SYSTEM SHALL MAINTAIN A MINIMUM LEVEL OF 15 FOOTCANDLES AT THE FIRST FLOOR DURING BUSINESS HOURS OF OPERATION. PROVIDE SENSORS AND CONTROLS FOR THREE (3) SEPARATE ZONES OF OPERATION.
- 3. PRIVATE AND OPEN OFFICES CONTROLLED BY A DAYLIGHTING CONTROL SYSTEM SHALL MAINTAIN A MINIMUM LEVEL OF 30 FOOTCANDLES AT 30" AFF.
- DAYLIGHTING SYSTEM WAS DESIGNED BASED ON nLIGHT.
- . DAYLIGHTING SYSTEM SHALL BE FULLY DESIGNED BY ONE OF THE FOLLOWING VENDORS: nLIGHT, HUBBELL WIRING SYSTEMS, OR WATTSTOPPER. VENDOR SHALL PROVIDE SHOP DRAWINGS PRIOR TO INSTALLATION. DAYLIGHTING SENSORS SHOWN ON DRAWINGS ARE FOR SCHEMATIC PURPOSES ONLY. FINAL DESIGN FROM DAYLIGHTING SYSTEM VENDOR SHALL DEPEND ON TYPE OF SENSING SYSTEM (OPEN-LOOP OR CLOSED-LOOP), VENDOR SPECIFIC TECHNOLOGY, ETC.
- 6. DAYLIGHTING SYSTEM SHALL BE CAPABLE OF BEING OVERRIDDEN BY AUTOMATIC BUILDING LIGHTING SHUTOFF PROVIDED BY LIGHTING PANELS.
- DAYLIGHTING SYSTEM SHALL BE CAPABLE OF BEING CONNECTED TO A BUILDING MANAGEMENT SYSTEM
- 8. DAYLIGHTING SYSTEM SHALL PROVIDE DIMMING AND "ON/OFF" CONTROL FOR ASSOCIATED LUMINAIRES.
- 9. SEE ARCHITECTURAL DRAWINGS FOR GLASS LOCATIONS AND ARCHITECTURAL MATERIAL SYMBOL LIST
- 10. SEE ARCHITECTURAL ELEVATIONS. 11. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING AND
- LUMINAIRE HEIGHT.
- 13. MANUFACTURER SHALL PROVIDE FULL COMMISSIONING OF DAYLIGHTING SYSTEM, INCLUDING (BUT NOT LIMITED TO) ADJUSTMENT OF DAYLIGHTING SETPOINTS, DEADBAND, AND SYSTEM PROGRAMMING.

12. SEE ARCHITECTURAL SPECIFICATION FOR GLAZING SCHEDULE.

14. LUMINAIRES IDENTIFIED AS BEING ON EMERGENCY POWER IN SPACES WITH DAYLIGHTING CONTROLS SHALL BE CONTROLLED BY THE DAYLIGHTING SYSTEM THRU AN EMERGENCY LIGHTING CONTROL UNIT. THE EMERGENCY LIGHTING CONTROL UNIT SHALL AUTOMATICALLY BYPASS THE DAYLIGHTING CONTROL SYSTEM IN THE EVENT OF A LOSS OF NORMAL POWER. SEE LIGHTING SYSTEM NOTES #5 ON SAME SHEET.

DEMOLITION NOTES

1. EXISTING ELECTRICAL EQUIPMENT TO REMAIN SHALL BE KEPT IN SERVICE AND BE PROTECTED. PROVIDE TEMPORARY SERVICE AS REQUIRED. ALL DOWN TIMES SHALL BE MINIMUM AND SHALL BE COORDINATED WITH THE BUILDING OWNER AND SHALL BE SUBJECT TO THEIR APPROVAL.

LIGHTING NOTES

- 1. LIGHT FIXTURES SHALL BE INDEPENDENTLY SUPPORTED.
- INSTALL UNDERCABINET LIGHTING TIGHT TO BACK OF CABINET WITH LENS ORIENTED AWAY FROM WALL. DRILL OR NOTCH BACK OF CABINET (IF PROVIDE WITH A BACK VALANCE) AND PENETRATE WALL WITH HCF CABLE AND CONNECT TO UNDERCABINET FIXTURE SUCH THAT WIRING AND CONNECTOR ARE NOT
- COORDINATE EXACT LOCATIONS OF EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES WITH FINAL ARCHITECTURAL BUILDING EXTERIOR ELEVATIONS WHICH INCLUDE FIXTURE POSITIONS.
- 4. SEE LIGHTING FIXTURE SCHEDULE FOR LUMINAIRE TYPES AND DESCRIPTIONS
- 5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LUMINAIRES.
- 6. ALL EMERGENCY LIGHTING INSIDE THE BUILDING (EXCLUDING EXIT SIGNS) SHALL BE CONNECTED TO AN EMERGENCY CIRCUIT AND A NORMAL CIRCUIT VIA AN EMERGENCY LIGHTING CONTROL UNIT. THE EMERGENCY LIGHTING CONTROL UNIT SHALL ALLOW FOR THE EMERGENCY LUMINAIRES TO BE CONTROLLED WITH THE ADJACENT NORMAL LIGHTING. IN THE EVENT OF A LOSS OF POWER THE EMERGENCY LIGHTING CONTROL UNIT SHALL TRANSFER THE SFI FCTED LUMINAIRES TO EMERGENCY POWER AND SHALL OVERRIDE THE LOCAL SWITCH POSITION FORCING THE FIXTURE TO THE "ON" POSITION. THE EMERGENCY CIRCUIT USED SHALL BE LOCKED IN THE ON POSITION. IF ALL THE LUMINAIRES IN A ROOM ARE INDICATED TO BE ON EMERGENCY POWER, THEN NO NORMAL CIRCUIT SHALL BE NECESSARY.
- NIGHT LIGHTS ARE DEFINED AS LUMINAIRES ON EMERGENCY POWER THAT ARE INTENDED TO OPERATE 24 HOURS/DAY, 7 DAYS/WEEK, 356 DAYS/YEAR. EMERGENCY LIGHTS ARE DEFINED AS LUMINAIRES ON EMERGENCY POWER THAT CAN BE CONTROLLED EITHER VIA MANUAL CONTROLS OR BY AUTOMATIC CONTROLS.
- 8. ALL EMERGENCY LIGHTS INSIDE AND OUTSIDE THE BUILDING (INCLUDING ALL EXIT SIGNS) SHALL BE CONNECTED TO EMERGENCY CIRCUITS. THE CIRCUITS USED SHALL BE LOCKED IN THE ON POSITION. LUMINAIRES DESIGNATED FOR EMERGENCY SHALL BE FED FROM CIRCUITS DEDICATED FOR EMERGENCY LIGHTING
- 9. ALL LUMINAIRES MOUNTED IN LAY-IN CEILING SHALL BE FURNISHED WITH SAFETY T-BAR CLIPS AND MOUNTING HARDWARE AS NECESSARY TO ACCOMMODATE THE LAY-IN GRID TYPE BEING USED AT EACH FIXTURE LOCATION.
- 10. ELECTRICAL TRADES SHALL PROVIDE TO THE CEILING TILE INSTALLER APPROVED SHOP DRAWINGS FOR ALL FIXTURES REQUIRED TO BE CUT INTO THE LAY-IN CEILING TILES. ALL LOCATIONS SHALL BE COORDINATED WITH THE CEILING TILE MANUFACTURER.
- 11. UNLESS OTHERWISE SHOWN ON DRAWING, CIRCUIT ALL LUMINAIRES OF THE SAME TYPE IN A ROOM TO THE SAME SWITCH.
- 12. ALL FIXTURES AND ASSOCIATED COMPONENTS SHALL BE UL LISTED FOR THEIR
- 13. PROVIDE EXIT SIGNS WITH DIRECTIONAL ARROWS AS INDICATED ON PLANS. 14. SWITCHES SHALL BE MOUNTED TO AVOID THE AREA OF THE DOOR SWING. SWITCHES SHALL CLEAR DOOR SWING BY 6" MINIMUM. COORDINATE WITH
- 15. ALL SUSPENDED CONTINUOUS LINEAR RUNS OF LUMINAIRES, AND ALL SUSPENDED LUMINAIRES SHOWN ON PLANS AS BEING ORRIENTED IN ROWS SHALL BE ALIGNED TO BE STRAIGHT, PLUB, AND LEVEL. CONTRACTOR SHALL MOCK UP ONE BAY OF LUMINAIRES FOR APPROVAL FROM ARCHITECT, ENGINEER AND OWNERS REPRESENTATIVE PRIOR TO INSTALLATION OF LUMINAIRES.

ARCHITECTURAL TRADES.

- 16. LED LUMINAIRES ARE TYPICALLY RATED FOR 50,000 HOURS OF OPERATION WITH 70% LUMEN MAINTENANCE (IE: LUMINAIRE PRODUCES 70% OF INITIAL LIGHT OUTPUT AT 50.000 HOURS). MAINTENANCE STAFF SHOULD PERIODICALLY TEST LIGHTING LEVELS TO ENSURE THAT SPACES ARE ADEQUATELY ILLUMINATED. SPACES SHOULD BE TESTED AT LEAST 5 YEARS AFTER OCCUPANCY OF SPACE, AND SUBSEQUENTLY TESTED EVERY 1 YEAR FOR LABORATORY AND AUTOPSY SPACES AND EVERY 2 YEARS FOR OTHER SPACES.
- 17. IT IS RECOMMENDED THAT THE OWNER PERIODICALLY PERFORM LIGHTING LEVEL EVALUATIONS IN THE IN ORDER TO VERIFY THAT THE PROPER AMOUNT OF LIGHT IS AVAILABLE. LED LUMINAIRES ARE TYPICALLY RATED FOR 50,000 HOURS OF OPERATION WITH 70% LUMEN MAINTENANCE (IE: LUMINAIRE PRODUCES 70% OF INITIAL LIGHT OUTPUT AT 50,000 HOURS). MAINTENANCE STAFF SHOULD PERIODICALLY TEST LIGHTING LEVELS TO ENSURE THAT SPACES ARE ADEQUATELY ILLUMINATED. SPACES SHOULD BE TESTED AT LEAST 5 YEARS AFTER OCCUPANCY OF SPACE, AND SUBSEQUENTLY TESTED EVERY 2-3 YEARS. A. FOR CORRIDORS, WALKWAYS, VESTIBULES AND ATRIUMS TESTS SHALL BE
- PERFORMED AT THE FLOOR. FOR OTHER AREAS, THE TEST SHALL BE PERFORMED AT DESK HEIGHT. TEST SHALL BE PERFORMED AT A LOCATION BETWEEN TWO LUMINAIRES, AND HALF WAY BETWEEN THE ROOM PERIMETER AND THE CENTER OF THE ROOM.
- B. READINGS GREATER THAN OR EQUAL TO THE FOLLOWING FOOTCANDLE LEVELS WILL INDICATE THAT THE SPACE HAS ADEQUATE LIGHTING: a. CLASSROOMS: 30-50 FC b. CORRIDORS, VESTIBULES, STAIRWAYS, LOBBIES, RESTROOMS: 10 F c. OTHER SPACES: 15 FC.

GENERAL NOTES

- 1. ELECTRICAL OUTLET BOXES INSTALLED IN RATED WALLS SHALL NOT BE LESS THAN 24" FROM OUTLETS IN THE OPPOSITE WALL SURFACE. BACK AND SIDE OF BOXES SHALL BE COMPLETELY WRAPPED BY LOWERY #10 PUTTY PADS, BOXES SHALL BE CAULKED AT THE PERIMETER OF THE BOX WHERE IT MATES WITH
- 2. ALL OPENINGS AROUND CONDUITS PASSING THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC. SHALL BE PACKED AND SEALED TO CONFORM WITH THE FIRE RATING OF THE PENETRATED STRUCTURE.
- 3. THE MECHANICAL, ELECTRICAL AND PLUMBING CONTRACTORS SHALL COORDINATE THEIR INSTALLATIONS PRIOR TO THE PERMANENT INSTALLATION OF ANY DUCTWORK, CONDUIT OR PIPING. UNLESS DECIDED BY THE GENERAL CONTRACTOR, DUCTWORK SHALL TAKE PRECEDENCE. COSTS TO CORRECT CONFLICTS SHALL BE NO COST TO THE OWNER.
- 4. ANY FEEDERS AND BRANCH CIRCUITS SHALL CARRY A GROUND WIRE, SIZED PER N.E.C ARTICLE 250.
- 5. FIELD VERIFY EXISTING CONDITIONS AND ACTUAL DIMENSIONS PRIOR TO START
- 6. THOROUGHLY COORDINATE ELECTRICAL WORK WITH OTHER TRADES TO AVOID PHYSICAL CONFLICTS AND CONFLICTS WITH WORK SEQUENCE.
- 7. REFER TO ARCHITECTURAL DRAWINGS FOR WALLS WITH SPECIAL WALL FINISHES AND MILLWORK. COORDINATE OVERALL WALL COVERING THICKNESS AND MILLWORK DEPTH AND PROVIDE PLASTER RING WITH APPROPRIATE DEPTH. COORDINATE CUTTING OF MILLWORK PANELS WITH MILLWORK TRADES AND INSTALL DEVICE COVERPLATES ON MILLWORK SURFACE.
- 8. COORDINATE WITH ARCHITECTURAL TRADES FOR WALLS TO BE PROVIDED WITH INSULATION FOR ACOUSTICAL PURPOSES.
- 9. ALL CONDUIT AND WIRING SHALL BE CONCEALED IN WALL OR CEILING CAVITY EXCEPT WHERE NOTED OTHERWISE ON THE DRAWINGS.
- 10. IN ALL AREAS WITH GYPSUM BOARD CEILINGS THE ELECTRICAL TRADES SHALL ROUTE CONDUIT AND POSITION PULL / JUNCTION BOXES TO ALLOW ACCESS THRU ACCESS PANELS BY ARCHITECTURAL TRADES. WHERE POSSIBLE. WHERE ADDITIONAL ACCESS PANELS ARE REQUIRED FOR ELECTRICAL EQUIPMENT. THE ELECTRICAL TRADES SHALL INCLUDE THE ACCESS PANEL IN THE BID. ACCESS PANEL SHALL BE INSTALLED BY THE CEILING INSTALLER. ADDITIONAL ACCESS PANEL LOCATIONS SHALL BE APPROVED BY THE ARCHITECT.
- 11. MOUNTING HEIGHTS OF ELECTRICAL DEVICES ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.
- 12. IN GENERAL, ELECTRICAL DEVICES, WHICH ARE INDICATED ON THE PLAN MAY BE SCALED AND MOUNTED TO THE NEAREST STUD EXCEPT WHERE DIMENSIONED OR ADDITIONAL LAYOUT CRITERIA IS INDICATED AT CRITICAL LOCATIONS. DEVICES SHOWN ON ARCHITECTURAL ELEVATIONS SHALL BE POSITIONED AT THE LOCATIONS INDICATED (PROVIDE DOUBLE STUD ADJUSTABLE BRACKETS WHERE NECESSARY).
- 13. ELECTRICAL DEVICE OUTLETS SHALL NOT BE LOCATED BACK TO BACK WITHIN THE SAME STUD SPACE IN INTERIOR WALLS, WHICH ARE INSULATED. THE DEVICES IN ONE ROOM SHALL BE OFFSET TO THE NEXT STUD SPACE.
- 14. MULTI GANG DEVICES SHALL BE GANGED UNDER SINGLE MULTI GANG COVER
- 15. WHERE ELECTRICAL DEVICES ARE INDICATED ON A COLUMN, THE DEVICE SHALL BE CENTERED ON THE COLUMN SURFACE
- 16. DEVICES SERVING WALL MOUNTED TV'S OR MONITORS SHALL BE LOCATED SUCH THAT THEY ARE NOT VISIBLE AND SHALL BE POSITIONED WITHIN THE MANUFACTURERS DESIGNATED AREA. VERIFY EXACT LOCATION WITH THE EQUIPMENT AND MOUNTING BRACKET AND COORDINATE WITH THE EQUIPMENT
- 17. WHERE GFCI PROTECTION IS INDICATED, A GFCI TYPE RECEPTACLE SHALL BE PROVIDED AT EACH LOCATION. LOAD SIDE PROTECTION OF DOWN STREAM DEVICES WILL NOT BE ACCEPTABLE.
- 18. MINIMUM WIRE SIZE SHALL BE #12 AWG, BRANCH CIRCUITS OF 120 VOLTS EXCEEDING 75'-0", OR 277 VOLTS EXCEEDING 150'-0" IN LENGTH SHALL BE #10 AWG MINIMUM.
- 19. REFER TO ONE LINE DIAGRAM(S) FOR FEEDER CONDUIT AND WIRE SIZES.
- PROVIDED WITH A NYLON PULL STRING. PROVIDE CONDUIT CONNECTOR OR BUSHING ON END OF CONDUIT FOR ALL CONDUIT STUB OFFS. 21. ELECTRICAL LAYOUT AND DESIGN HAVE BEEN BASED ON PRELIMINARY
- ELECTRICAL TRADES SHALL OBTAIN FINAL EQUIPMENT INSTALLATION INFORMATION FROM APPROVED SHOP DRAWINGS PRIOR TO SYSTEM INSTALLATION, WHERE SUBSTITUTION OF OTHER LISTED APPROVED MANUFACTURERS ARE PROVIDED BY THE CONTRACTOR, THE CONTRACTOR DISCIPLINES OR TRADES NECESSARY TO ACCOMMODATE THE SUBSTITUTED
- 22. ELECTRICAL TRADES TO VERIFY DIRECT LINE HORIZONTAL DISTANCE OF RECEPTACLES TO EDGE OF SINK & PROVIDE GFCI DEVICE WHERE LOCATED
- 23. ELECTRICAL TRADES SHALL PROVIDE 120VOLT CORD AND PLUG AT ALL FILM ILLUMINATORS. PROVIDE #14AWG 2 CONDUCTOR + GRD SJO CORD, 5-15P PLUG. PROVIDE 6FT CORD AND CUT TO LENGTH AND TERMINATE AT UNIT AS REQUIRED.
- LOCATED AT BUILDING PERIMETER WALLS WITH GLASS ABOVE SHALL BE BELOW SLAB (AT FIRST FLOOR LOCATIONS). THIS IS DUE TO STRUCTURAL COMPONENTS PROHIBITING HORIZONTAL ROUTING. COORDINATE QUANTITY AND LOCATIONS WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS.
- ALTERNATE PRICING FOR ASSOCIATED ELECTRICAL WORK SCOPE(S). 28. ELECTRICAL CONTRACTOR TO COORDINATE FINAL EQUIPMENT AND PANEL NAMES FROM THE OWNER'S REPRESENTATIVE PRIOR TO IDENTIFICATION AND
- 29. COORDINATE EXACT LOCATIONS OF EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES WITH FINAL ARCHITECTURAL BUILDING EXTERIOR ELEVATIONS
- WITH MECHANICAL TRADES. (IE. WIRING AND CONDUIT FROM MECHANICAL HEAT TRACE PANEL TO TERMINATION AT HEAT TRACE ELEMENT(S) AT PIPING IN

ABBREVIATIONS -

- ABOVE COUNTER ACCESS CONTROL SYSTEM AMPERE FRAME ABOVE FINISH FLOOR AHJ AUTHORITY HAVING JURISDICTION AIR HANDLING UNIT AMPERES INTERRUPTING CAPACITY
- ALUMINUM AMPERE PLUG ABOVE RAISED FLOOR AMPERE SWITCH AMPERE TRIP
- AUTOMATIC TRANSFER SWITCH AUDIO VISUAL AWG AMERICAN WIRE GAUGE BCC BACKBONE COPPER CABLE
- BKBD BACKBOARD BKR BREAKER

ATS

- BLDG BUILDING CONDUIT CAB CABINET
- CAT 4-PAIR, UTP CABLE CATV COMMUNITY ANTENNA TELEVISION CB CIRCUIT BREAKER
 CD CANDEL 4
- CKT CIRCUIT CLG CEILING OR CEILING MOUNTED CLST CLOSET CMH COMMUNICATIONS MAINTENANCE
- COAX COAXIAL COMM COMMUNICATIONS CP CONTROL PANEL CRGB COMPUTER ROOM GROUND BUS
- COPPER CUH CABINET UNIT HEATER DC DIRECT CURRENT

CT CABLE TRAY

- DEG DEGREE DEMO DEMOLITION DEPT DEPARTMENT DIA DIAMETER
- DIST DISTRIBUTION DISTRIBUTION PANELBOARD DWG DRAWING

DISC DISCONNECT

EXISTING EACH **ELECTRICAL CONTRACTOR** EGB ELECTRICAL GROUND BUS

EOR ENGINEER OF RECORD

EQUIPMENT ROOM

ELEC ELECTRIC, ELECTRICAL ELEV ELEVATOR EMT ELECTRIC METALLIC TUBING ENL EXISTING NEW LOCATION

EQUIP EQUIPMENT

- ERMS ENERGY REDUCTION MAINENANCE ESS ELECTRONIC SAFETY & SECURITY ETM EXISTING TO MOVE ETBR EXISTING TO BE REMOVED
- FA FIRE ALARM FAA FIRE ALARM ANNUNCIATOR FACP FIRE ALARM CONTROL PANEL
- FCU FAN COIL UNIT FLR FLOOR
- 20. ALL EMPTY CONDUITS SHALL BE DE-BURRED, CLEANED, TAGGED AND FU FUSE
- INFORMATION FROM "DESIGN BASIS" MANUFACTURERS OF MAJOR EQUIPMENT. SHALL BE RESPONSIBLE FOR CONSTRUCTION OR DESIGN REVISIONS FROM ALL
- WITHIN 6'-0".
- 24. PROVIDE CONDUIT SLEEVES THRU WALLS WHICH EXTEND TO DECK AS REQUIRED FOR PENETRATIONS OF LOW VOLTAGE CABLING. MINIMUM CONDUIT SLEEVE SIZE SHALL BE 2". PROVIDE PRE-ENGINEERED FIRE RATED PASS THRU ASSEMBLIES AT PENETRATIONS THRU FIRE RATED WALLS. REFER TO SPECIFICATIONS FOR APPROVED LISTED MANUFACTURERS.
- 25. ELECTRICAL BRANCH CIRCUIT CONDUITS AND LOW VOLTAGE DEVICE CONDUIT STUBS WITH DEVICES LOCATED AT INTERIOR WALLS WITH GLASS ABOVE OR ROUTED THRU FLOOR TO CEILING SPACE BELOW OR ROUTED UNDERGROUND
- 26. PROVIDE FIRESTOP PUTTY PADS AROUND THE BACK BOXES IN FIRE RATED WALLS TO MAINTAIN WALL FIRE RATING. REFER TO ARCHITECTURAL
- DRAWINGS FOR LOCATION OF FIRE RATED WALLS 27. REFER TO SPECIFICATION 01230 FOR DESCRIPTION OF ALTERNATES. PROVIDE
- LABELING IN FIELD AND FABRICATION OF NAMEPLATES.
- WHICH INCLUDE FIXTURE POSITIONS. 30. COORDINATE ELECTRICAL WORK SCOPE FOR HEAT TRACE BRANCH CIRCUITS
- 31. PROVIDE SURGE PROTECTIVE DEVICE FOR ALL PANELS ON THE EMERGENCY

GENERAL ELECTRICAL

- MAX MAXIMUM MC MAIN CROSS-CONNECT MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MDF MAIN DISTRIBUTION FRAME MECH MECHANICAL MGB MAIN GROUND BUS MANHOLE
 - MIN MINIMUM MLO MAIN LUG ONLY MM MULTIMODE FIBER MNS MASS NOTIFICATION SYSTEM MON MONITOR MSB MAIN SWITCHBOARD
 - MTD MOUNTED MTG MOUNTING MTR MOTOR
 - MTS MANUAL TRANSFER SWITCH NC NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NOT FUSED
 - NO NORMALLY OPENED NTS NOT TO SCALE OFC OPTICAL FIBER CABLE OFOI OWNER FURNISHED OWNER

NIC NOT IN CONTRACT

- INSTALLED OFCI OWNER FURNISHED CONTRACTOR INSTALLED OICF OWNER INSTALLED CONTRACTOR FURNISHED OCCUPANCY SENSOR OSP OUTSIDE PLANT
- POLE PB PULL BOX PHOTOCELL PDP POWER DISTRIBUTION
- PDU POWER DISTRIBUTION UNIT PHASE PL PILOT LIGHT PNL PANEL PON PASSIVE OPTICAL NETWORK POWER PANELBOARD

PAIR

PANELBOARD

- PT POKE-THRU PTD POWER TRANSFER DEVICE PTZ PAN, TILT, ZOOM PV PHOTOVOLTAIC PVC POLYVINYL CHLORIDE PWR POWER
- R RELOCATED RECEPT RECEPTACLE REOMT REQUIREMENT RM ROOM RMC RIGID METAL CONDUIT RMS ROOT MEAN SQUARE RECEPTACLE PANEL

RPSS RECEPTACLE PANEL WITH

RPP REMOTE POWER PANEL

SQUARE FEET

SPEC SPECIFICATIONS

STD STANDARD

SW SWITCH

TBL TABLE

TYP TYPICAL

SUB SUBSTATION

SWBD SWITCHBOARD

SWGR SWITCHGEAR

TIME CLOCK

TELEPHONE

TWIST LOCK

TR TELECOM ROOM

U/G UNDERGROUND

UH UNIT HEATER

TELEVISION

SINGLEMODE FIBER

STS STATIC TRANSFER SWITCH

STP SHIELDED TWISTED PAIR

SPD SURGE SUPPRESSION DEVICE

TGB TELECOM GROUNDING BUS BAR

TMGB TELECOM MAIN GROUNDING BUS

UL UNDERWRITERS LABORATORIES

UON UNLESS OTHERWISE NOTED

UPS UNINTERRUPTIBLE POWER

UTP UNSHIELDED TWISTED PAIR

UV UNIT VENTILATOR

VAV VARIABLE AIR VOLUME

VOIP VOICE OVER INTERNET

VSS VIDEO SURVELLANCE SYSTEM

WAP WIRELESS ACCESS POINT

ZSI ZONE SELECTIVE INTERLOCK

NEMA 3R ENCLOSURE

PROTOCOL

VA VOLT AMPS

WG WIRE GUARD

WP WATERPROOF

XFMR TRANSFORMER

XP EXPLOSION PROOF

4X NEMA 4X ENCLOSURE

WH WATER HEATER

W WATT

W/ WITH

- INTEGRAL SURGE SUPRESSION RU RACK UNIT EUH ELECTRIC UNIT HEATER EWC ELECTRIC WATER COOLER SAF SUPPLY AIR FAN EWH ELECTRIC WATER HEATER SCTP SCREENED TWISTED PAIR SD SMOKE DETECTOR
- FLA FULL LOAD AMPERES FMT FLEXIBLE METALLIC TUBING FOC FIBER OPTIC CABLE
- GEN GENERATOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR GND GROUND HC HORIZONTAL CROSS-CONNECT

INTERMEDIATE CROSS-CONNECT

INSULATION DISPLACEMENT

ISOLATED POWER PANEL

LONG TIME, SHORT TIME,

INSTANTANEOUS

LSIG LONG TIME, SHORT TIME,

GANN GENERATOR ANNUNCIATOR

HOA HAND-OFF-AUTO HORSE POWER HTR HEATER IAW IN ACCORDANCE WITH IBC INTERNATIONAL BUILDING CODE

CONNECTOR

HH HANDHOLE

IDF INTERMEDIATE DISTRIBUTION FRAME IDS INTRUSION DETECTION SYSTEM ISOLATED GROUND INVERTER INTERMEDIATE METAL CONDUIT INTERNET PROTOCOL

IPP

JUNCTION BOX JANITOR CLOSET KCMIL THOUSAND CIRCULAR MILLS

LSI

KVA KILOVOLT AMPERE KW KILOWATT KWH KILOWATT HOUR LAN LOCAL AREA NETWORK

LTG LIGHTING

- LCP LIGHTING CONTROL PANEL LFACP LOCAL FIRE ALARM CONTROL PANEL LONG TIME, INSTANTANEOUS LIGHTING PANELBOARD LRA LOCKED ROTOR AMPERE

INSTANTANEOUS, GROUND FAULT

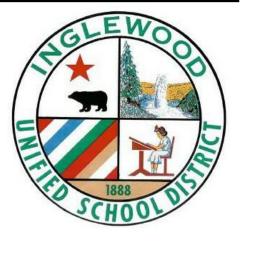
NUMBER SHEET NAME ELECTRICAL Electrical General Notes & Abbreviations Electrical Legends Electrical Site Plan Power Plan Lighting Plan Emergency Photometrics Plan Safe Disperal Area Path Lighting Plan Electrical Details

> Interior Lighting Title 24 Documents Exterior Lighting Title 24 Documents Electrical Title 24 Documents

Panel Schedules

Electrical One-Line Diagram

SHEET INDEX



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IUSD Bennett-Kew

11710 S Cherry Ave

△ Date Issued For

1 11/5/2024 DSA SUBMITTAL

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Electrical General Notes & **Abbreviations**

2023-IU002-002

E-001

PANEL BOARD

RECTIFIER (UPS)

INVERTER (UPS)

STATIC SWITCH

AUTOMATIC TRANSFER SWITCH

AUTOMATIC TRANSFER SWITCH W/ MAINTENANCE BY-PASS

MONITOR AND PROTECTION DEVICES

TECHNOLOGY LEGEND

TELEPHONE OUTLET FLOOR TELEPHONE OUTLET VOICE/DATA OUTLET -# OF VOICE & # OF DATA OUTLETS. FOR EXAMPLE 1V2D = 1 VOICE, 2 DATA

FLOOR DATA OUTLET **CEILING DATA OUTLET** MICROPHONE OUTLET **CATV OUTLET** TV OUTLET

VOLUME CONTROL DOOR BELL DOOR BUZZER DOOR CHIME $\vdash \Box$ D DOOR SIGNAL

PUSHBUTTON ELECTRIC STRIKE MAGNETIC LOCK COMBINATION LOCK DOOR CONTACT CARD READER

SECURITY KEYPAD MOTION DETECTOR NURSE CALL EMERG STATION NURSE CALL CODE BLUE STATION NURSE CALL DUTY STATION NURSE CALL STAFF STATION

NURSE CALL PATIENT NURSE CALL DOME LIGHT (1 COLOR) NURSE CALL DOME LIGHT (2 COLORS)

OUTLET LEGEND

SINGLE RECEPT DUPLEX RECEPT (DESIGNATES SPECIFIC MOUNTING HEIGHT) **DUPLEX RECEPT** GFI DUPLEX RECEPT

GFI WEATHERPROOF RECEPT CONTROLLED DUPLEX RECEPT DUPLEX RECEPT ON EMERG CIRCUIT DUPLEX RECEPT ON UPS CIRCUIT FLOOR DUPLEX RECEPT CEILING DUPLEX RECEPT DOUBLE DUPLEX RECEPT DOUBLE DUPLEX RECEPT ON EMERGENCY CIRCUIT 240V RECEPTACLE

RECEPT ON CORD REEL SPECIAL RECEPTACLE JUNCTION BOX FLOOR JUNCTION BOX **CEILING JUNCTION BOX**

WIRE MOLD

NOTE: 120V RECEPTACLES SHALL BE NEMA 6-20R RATED UNLESS OTHERWISE NOTED

MOTOR LEGEND

COMB MOTOR STARTER (FUSED) SAFETY DISC SW (NON-FUSED) SAFETY DISC SW (FUSED) RELAY PUSH BUTTON POWER POLE (OPEN OFFICE STYLE) SURGERY SERVICE COLUMN STATIC GROUND RECEPTACLE UTILITY SERVICE POWER POLE **(•)**/XX-1 MOTOR - IDENTITY, SEE SCH TO REMAIN RELOCATED DEMOLISHED **(** • **)** XX-1 **(** • **)** XX-1 XX-1

TRANSFORMER

BUS DUCT W/ PLUG IN DISCONNECT

—CABLE TAP BOX

MOUNTING HEIGHTS

FINISH

FLOOR

LIGHTING LEGEND

-LIGHTING FIXTURES, TYPICAL, RECTANGULAR FILLED CIRCLES INDICATE RECESSED, OPEN CIRCLES INDICATE SURFACE DIAGONAL LINE INDICATES LENSED OUTER DOTS INDICATE SUSPENDED **⊢**

LIGHTING FIXTURES, TYPICAL, ROUND CENTER DOT INDICATES PENDANT DIAGONAL LINE INDICATES LENSED CHEVRON INDICATES WALL WASH

WALL-MOUNTED FIXTURES, TYPICAL

→ STRIP FIXTURE

→ DIRECTIONAL LIGHT, TRACK FLOOD

– – LINEAR LIGHT, TAPE LIGHT

▶ ■ **EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, INTEGRAL BATTERY** EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, REMOTE BATTERY

EMERGENCY LIGHTING UNIT, WALL-MOUNTED, INTEGRAL BATTERY

EMERGENCY LIGHTING UNIT, WALL-MOUNTED, REMOTE BATTERY EXIT LIGHT, CEILING-MOUNTED, SHADING AND ARROWS

INDICATE FACES AND DIRECTION

EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION

EXIT/ELU COMBO

POLE/AREA LIGHTS POST-TOP AREA LIGHT BOLLARD LIGHT

DIAGONAL HATCH INDICATES LIGHT ON A CRITICAL CIRCUIT

SOLID HATCH INDICATES LIGHT ON AN EMERGENCY OR LIFE SAFETY CIRCUIT

SWITCH AND SENSORS LEGEND

SINGLE POLE SWITCH 3-WAY SWITCH 4-WAY SWITCH

KEYED SWITCH SWITCH W/ PILOT

DIMMER SWITCH OCCUPANCY SENSOR OCCUPANCY SENSOR W/ MANUAL SWITCH OCCUPANCY SENSOR W/ DIMMER SWITCH

OCCUPANCY SENSOR TIMER SWITCH TIME DELAY SWITCH

TIME CONTROL SWITCH LOW VOLTAGE SWITCH LIGHT LEVEL SENSOR

TOP OF THERMOSTAT

CONTROL, CO2 SENSOR -

46" MAX OFF @

SIDE APPROACH

FRONT APPROACH @

ACCESSIBLE WORK

44" MAX OFF @

STATIONS

SWITCH, OUTLET,

PHOTOCELL

THREE PHASE TRANSFORMERS

MEP COMPONENT ANCHORAGE NOTES:

APPROVED BY DSA.

THE COMPONENT.

ACCORDANCE WITH ABOVE REQUIREMENTS.

SUPPORT THE HANGER AND BRACE LOADS.

AND DETAILS.

DISTRIBUTION SYSTEMS (E):

T300

600A

APPROVED ELECTRODE -

FROM A WALL.

1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

RECEPTACLES HAVING A FLEXIBLE CABLE.

ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED AND INSTALLED

2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED)

ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONECTIONS EXCEPT PLUGS FOR 110/220 VOLT

TEMPORARY. MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A

CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL

THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCE

NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN

THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED

4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS,

LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR HUNG

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO COMPLY WITH THE

FORCES DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED

DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON

A PREAPPROVED INSTALLATION GUIDE (E.E., SMACNA OR OSHPAD OPM), COPIES OF THE BRACING

MP MD PP EX - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH SPECIFIC NOTES

MP MD PP E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED

SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE

TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR

13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A..1.24, 1617A.1.25 AND 1616A.1.26.

START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE

MECHANICAL PIPING (MP), MECHANICAL DUCT (MD), PLUMBING PIPING (PP), ELECTRICAL

STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES:

STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT

INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN

MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

TO THE BUILDING UTILITY SERVICES AS ELECTRICITY, GAS OR WATER. "PERMANENTLY

THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BARCED TO MEET THE FORCE AND

DISPLACEMENTS REQUIREMENTS PRESCRIBED IN 2022 CBC SECTIONS 1617A.1.18 THROUGH

PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS.

THREE PHASE TRANSFORMERS (COPPER) 480V, PRIMARY (Δ) 208Y/120 SECONDARY 3PH, 3W kVA BONDING CONDUCTOR 3PH, 4W GROUNDING ELECTRODE CONNECTIONS (COPPER) RATING (COPPER) NEC 250.102(C)(1) NEC TABLE 250.66 OC PROT OC PROT 20A 30A 1#8 - 3/4"C, EA 50A 1#8 - 3/4"C, EA 30A 15 60A 100A 1#8 - 3/4"C, EA 80A 150A 1#8 - 3/4"C, EA 45 150A 250A 1#6 - 3/4"C, EA T112.5 200A 400A 1#4 - 3/4"C, EA 112.5 T150 225A 500A 1#2 - 3/4"C, EA 800A 400A 1#1/0 - 1"C, EA 225

TRANSFORMER NOTES: TA OVERCURRENT PROTECTIVE DEVICE (OC) CAN BE A CIRCUIT BREAKER OR FUSE AS REQUIRED BY DESIGN

1#2/0 - 1"C, EA

TB PROVIDE TYPE AND MINIMUM SIZE OF RACEWAY OR CABLE AS INDICATED IN SPECIFICATIONS OR ON THE

TC GROUNDING ELECTRODE CONDUCTOR SIZED PER NEC TABLE 250.66

12" MIN — ►

1000A

TD SUPPLY SIDE BONDING JUMPER SIZED PER NEC TABLE 250.102(c)(1) FOR EACH RACEWAY BASED ON PHASE CONDUCTORS IN EACH RACEWAY.

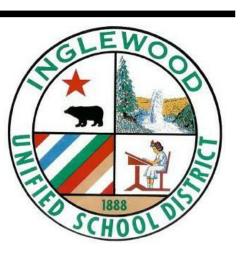
- TRANSFORMER ENCLOSURE SUPPLY-SIDE BONDING JUMPER ONLY REQUIRED IF GROUNDING **ELECTRODE CONNECTION IS AT** SECONDARY FIRST DISCONNECT, PER NEC PRIMARY > 250.30(a)(5) **GROUNDED ELECTRODE** CONDUCTORS TO NEAREST - BONDING CONDUCTOR TO NEAREST GROUNDED STEEL COLUMN OR CODE COLD WATER SUPPLY PIPE

VOLTAGE DROP CHART (COPPER) 120V CIRCUITS CONDUCTOR SIZE / MAX LENGTH MAX LENGTH #8 LOAD UP TO CONDUCTOR #12 SIZE #10 155 FT 245 FT 390 FT 1000 VA 125 FT 195 FT 310 FT 1200 VA 105 F 165 FT 260 FT 220 FT 1400 VA 90 FT 140 FT 195 FT 1600 VA 80 FT 125 FT 1800 VA 70 FT 110 FT 175 FT 277V CIRCUITS CONDUCTOR SIZE / MAX LENGTH 830 FT 525 FT 2000 VA 665 FT 2500 VA 555 FT 3000 VA 220 FT 350 FT 475 FT 3500 VA 190 F 300 FT 4000 VA 165 FT 260 FT 415 FT VOLTAGE DROP NOTE:

VA. BASED ON 3% VOLTAGE DROP FOR BRANCH CIRCUITS AND 2% ON FEEDER CIRCUITS, THE LOAD IN VOLT-AMPS, AND THE CIRCUIT LENGTH IN FEET TO CENTER OF LOAD, ADJUST SIZE OF BRANCH CIRCUIT CONDUCTORS AS INDICATED ON THE VOLTAGE DROP CHART.

MOUNTING HEIGHT NOTES

- 1. MOUNTING HEIGHTS ARE TYPICAL, UNLESS OTHERWISE INDICATED ON ARCHITECTURAL OR ELECTRICAL DRAWINGS.
- RECEPTACLES MOUNTING HEIGHTS IN UNFINISHED AREAS SHALL BE 36 INCHES ABOVE FINISH FLOOR TO CENTERLINE OF OUTLET BOX.
- B. WHERE REQUIRED, 12" MINIMUM SHALL BE MAINTAINED BETWEEN THE FLOOR AND BOTTOM OF PANELBOARD. PANEL SHALL BE ADJUSTED AS NECESSARY TO ACHIEVE THE 12" FROM THE FLOOR. ALL PANELS SHALL HAVE OPERATING HANDLES OF SWITCHES AND CIRCUIT BREAKERS, WHEN IN THE HIGHEST POSITION, NO MORE THAN 6' - 7" ABOVE FINISH FLOOR.
- 4. COORDINATE ADDITIONAL MOUNTING REQUIREMENTS WITH ARCHITECTURAL
- 5. ELECTRICAL OUTLETS, SWITCHES, AND SIMILAR CONTROLS SHALL BE MOUNTED A MAXIMUM OF 48" ABOVE FINISHED FLOOR, MEASURED TO THE TOP OF THE ELECTRICAL BOX RATHER THAN THE CENTERLINE. THE MINIMUM MOUNTING HEIGHT FOR SWITCHES AND OUTLETS IS 15" ABOVE FINISHED FLOOR, MEASURED TO THE BOTTOM OF THE ELECTRICAL BOX RATHER THAN THE CENTER LINE. (CBC SECTION 1117B.6.5)
- 6. FOR BRACKET EXIT SIGNS, MOUNT 6'-8" TO BOTTOM OF LUMINAIRE FOR CEILINGS UP TO 9'-0" AFF. MOUNT AT 8'-0" TO BOTTOM FOR CEILINGS HIGHER THAN 9'-0" AFF, FOR RECESSED EXIT SIGNS, WHEN ABOVE DOOR LOCATE MIDWAY BETWEEN TOP OF DOOR FRAME AND CEILING IF CEILING HEIGHT IS 8'-0" AFF OR 9'-0" AFF. FOR HIGHER CEILINGS, MOUNT 12" ABOVE DOOR.



Inglewood Unified **School District**

IUSD Bennett-Kew

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2023-IU002-002

Electrical Legends

GENERAL NOTES:

KEY PLAN

- SAWCUT EXISTING SURFACES AS REQUIRED TO INSTALL UNDERGROUND CONDUIT/CONDUCTORS. PATCH AND REPAIR SURFACES AFTER
- INSTALLATION TO MATCH EXISTING CONDITIONS.2. PAINT ALL NEW EXTERIOR CONDUIT, CONDUCTORS, AND BOXES TO MATCH BUILDING SURFACES.
- 3. ALL PENETRATIONS SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO
- MAINTAIN THE INTEGRITY AND RATING OF THE WALL OR STRUCTURE.

 4. REFER TO SAFE DISPERSAL AREA PATH LIGHTING PLAN AND FIRE ALARM
- SITE PLAN FOR ADDITIONAL TRENCHING REQUIRED.

 5. BURIAL DEPTHS SHALL COMPLY WITH CEC TABLE 300.5.

 6. CONNECT ALL EXTERIOR LIGHTING TO LIGHTING CONTROL PAN
- CONNECT ALL EXTERIOR LIGHTING TO LIGHTING CONTROL PANEL WITH ASTRONOMIC TIME CLOCK.
 REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL ELECTRICAL FEEDERS
- INFORMATION.

 8. REFER TO STRUCTURAL DRAWINGS FOR LIGHT POLE MOUNTING INFORMATION.



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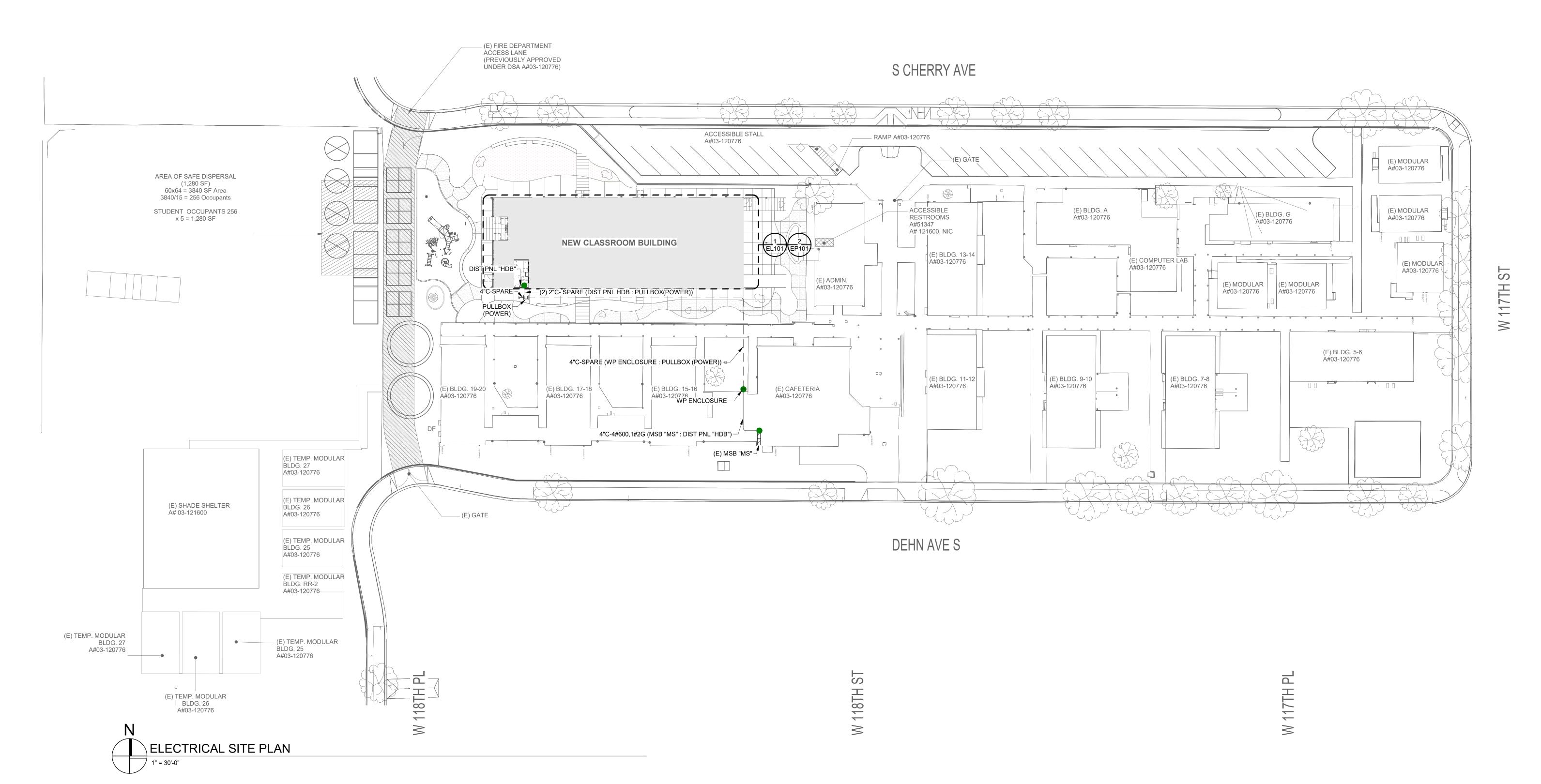
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2023-IU002-002

Electrical Site

ES101



POWER PLAN
1/8" = 1'-0"

3/4"C-3#12,1#12G ¬

__3/4"C-3#12,1#12G____

HM-2,4,6

3/4"C-3#12,1#12G

HM-8,10,12

3/4"C-3#12,1#12G

3/4"C-3#12,1#12G

_3/4"C-3#12,1#12G

HM-14,16,18

HM-20,22,24

3/4"C-2#12,1#12G // LM-3

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ELECTRICAL EQUIPMENT SCHEDULE											
EQUIPMENT	WEIGHT (LBS)	REFERENCE DETAIL (DETAIL #/ SHEET)	REFERENCE CALCULATIONS (PAGE)								
DIST PNL HDB	639	9/S-008	PAGE 200								
DIST PNL LDB	155	8/S-008	PAGE 200								
PNL HL	100	8/S-008	PAGE 211								
PNL HM	100	8/S-008	PAGE 211								
PNL LP1	140	8/S-008	PAGE 211								
PNL LM	140	8/S-008	PAGE 211								
XFMR T3	770	4/S-003	PAGE 188								
LIGHTING INVERTER	245	8/S-008	PAGE 211								
FIRE ALARM PANELS	41	8/S-008	PAGE 211								

POWER SHEET NOTES:

- 1. SEE DRAWING E-001 FOR GENERAL NOTES.
- SEE DRAWING E-002 FOR ELECTRICAL SYMBOL LEGEND AND TYPICAL MOUNTING HEIGHT INFORMATION.
- SEE ARCHITECTURAL PLANS AND DETAILS FOR DIMENSIONAL INFORMATION REGARDING PLACEMENT OF EQUIPMENT AND DEVICES. SEE GENERAL NOTES ON E-001 FOR MORE INFORMATION.
- HOMERUNS SHOWN WITH MULTIPLE CIRCUITS SHALL HAVE DEDICATED NEUTRALS.
- ALL OPENINGS AROUND CONDUITS PASSING THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC. SHALL BE PACKED AND SEALED TO CONFORM WITH THE FIRE RATING OF THE PENETRATED STRUCTURE.
- REFER TO STRUCTURAL DRAWINGS FOR ELECTRICAL EQUIPMENT MOUNTING INFORMATION.
- VERIFY FUSE SIZES WITH MECHANICAL EQUIPMENT MANUFACTURER AND NOTIFY EOR IF CONDITIONS DIFFER.

KEYED NOTES

- 1 REFER TO PV DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION.
- MECHANICAL EQUIPMENT POWERED FROM UNIT ON ROOF. PROVIDE CONDUIT/CONDUCTORS AS REQUIRED PER MANUFACTURER INSTRUCTIONS.
- COORDINATE DEVICE MOUNTING HEIGHT AND FINAL LOCATION WITH TECHNOLOGY DRAWINGS AND DISTRICT'S IT TEAM.
- 4 COORDINATE FINAL EQUIPMENT LOCATION WITH LANDSCAPE DRAWINGS.

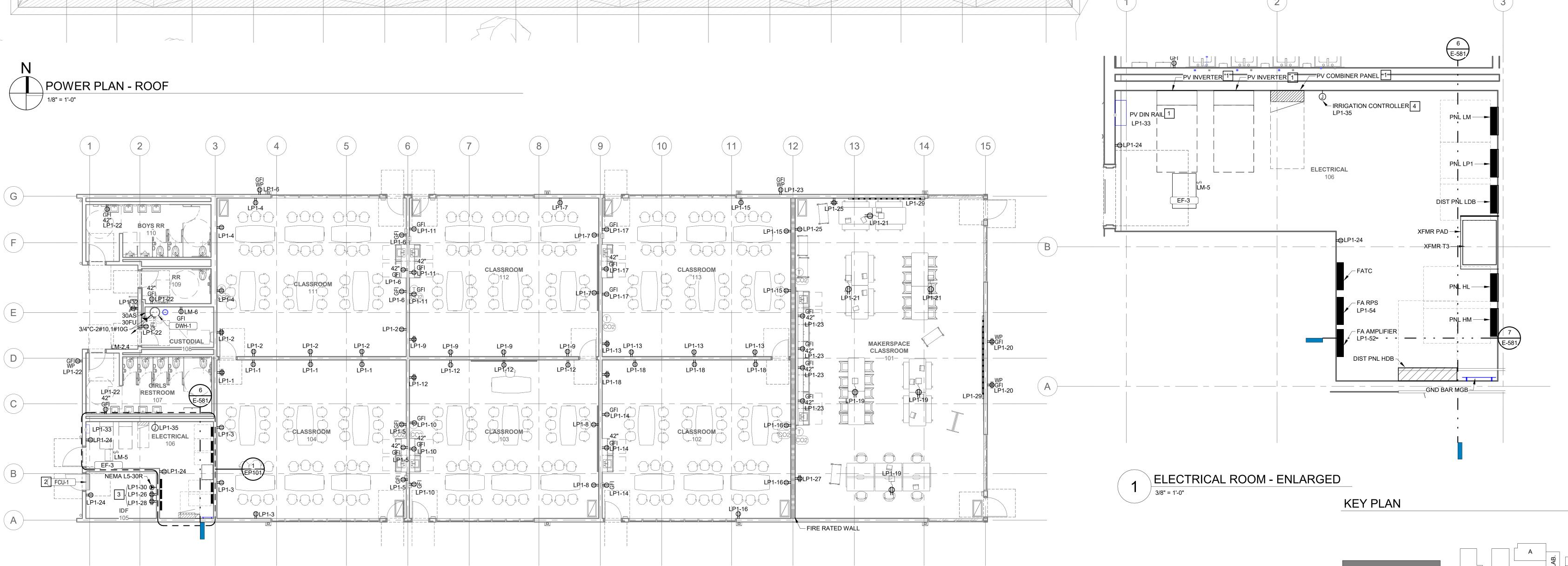


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HM-25,27,29 HM-31,33,35

20FU

30AS 30AS 20FU 3FU

3/4"C-3#12,1#12G

HM-26,28,30 HHM-32,34,36

3/4"C-3#12,1#12G -

__3/4"C-3#12,¹#12G_

3/4"C-3#12,1#12G

3/4"C-3#12,1#12G

30AS ▲ 30AS

20FU

WP_

3/4"C-3#12,1#12G | HM-38,40,42 | HM-44,46,48

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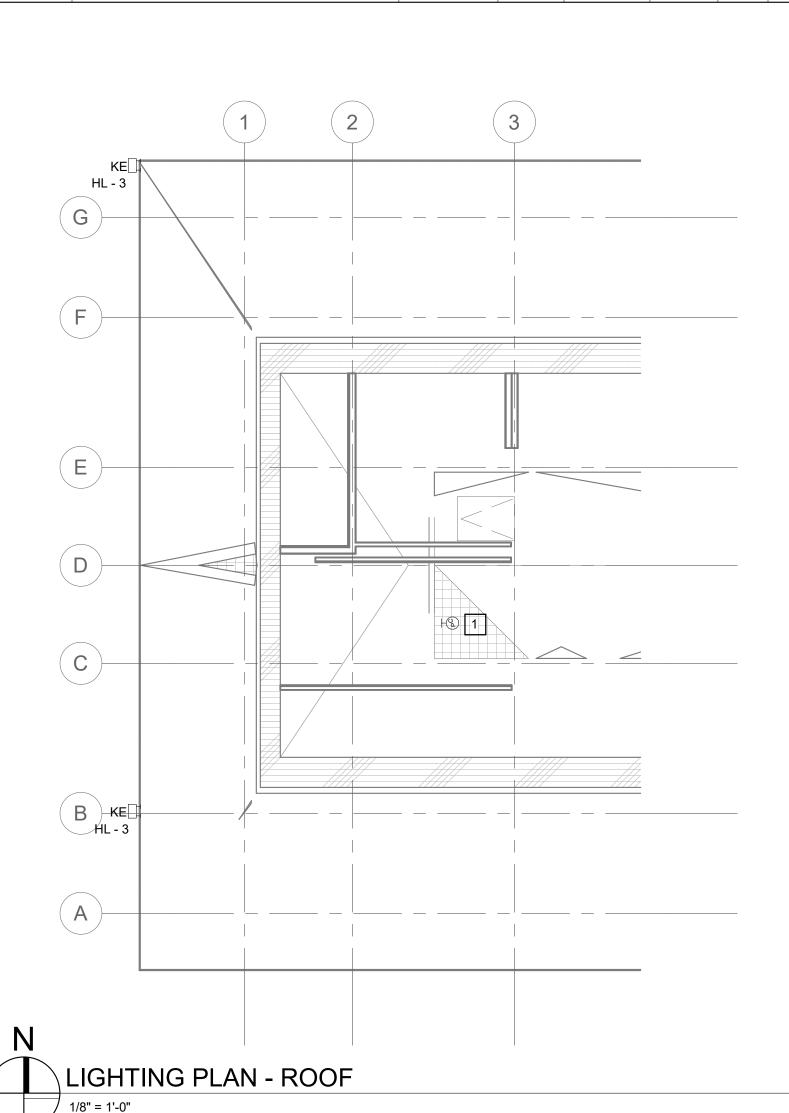
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Power Plan

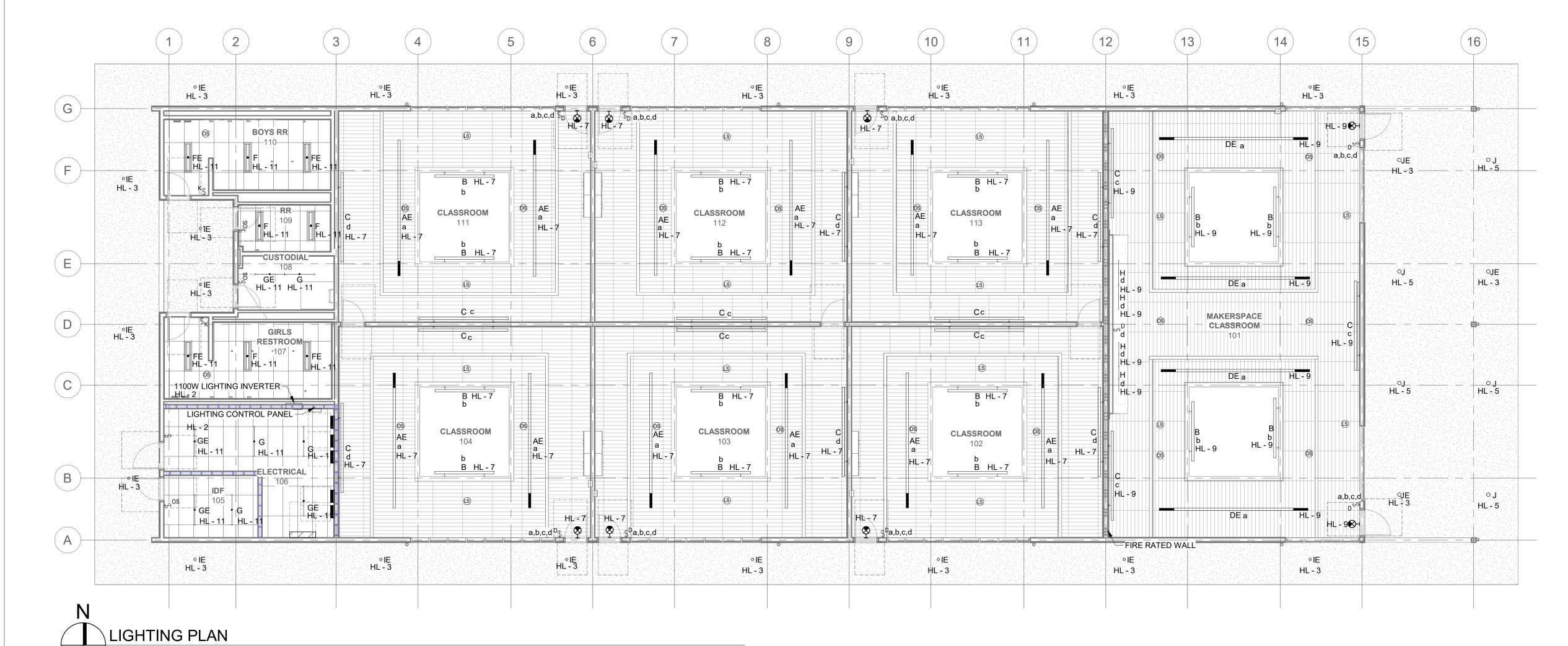
EP101

1/8" = 1'-0"

	LIGHTING FIXTURE SCHEDULE														
	CONSTRUCTION		LIGHT SOURCE				ELECTRICAL						PRODUCT		
				LUMENS	LUMENS						EMERGENCY				
TYPE	DESCRIPTION	MOUNTING	LAMP	DOWN	UP	CCT	DIMMING		WATTS	W/ft	COMPONENT	MFR	MODEL	NOTES	WEIGHT (LBS)
AE	18 FT LINEAR PENDANT MOUNT INDIRECT/DIRECT	SUSPENDED	LED	6752 lm	6576 lm	4000 K	0-10V	277 V	<varies></varies>	6.81	BATTERY	FINELITE	HP-X-P-ID-S-S-840-TG-F-277-SC-FC1%-FA50-LGD18W-SW	TWO 9FT SECTION. EMERGENCY BATTERY PACK. EM ILLUMINATED SECTION HIGHLITED IN LIGHTING PLAN.	41.4
В	8 FT LINEAR SURFACE MOUNT INDIRECT/DIRECT	SURFACE WALL HORIZONTAL	LED	3424 lm	3000 lm	4000 K	0-10V	277 V	55 W			FINELITE	HP-4-WM-ID-8-S-S-840-TG-F-96LG-277-SC-FC1%-MB-FE-SW		27.2
С	12 FT LINEAR SURFACE ARM MOUNTED WALL WASH DIRECT LUMINAIRE	H SURFACE ARM WALL HORIZONTAL	LED	4584 lm	0 lm	4000 K	0-10V	277 V	82 W			FINELITE	HP-4-AM-WWD-S-840-TG-96LG-277-SC-FC1%-AM24-FE-SW	MOUNT AT 7' 6" AFF	40.8
DE	20 FT LINEAR PENDANT MOUNT INDIRECT/DIRECT LUMINAIRE	SUSPENDED	LED	11816 lm	11508 lm	4000 K	0-10V	277 V	136 W	6.81	BATTERY	FINELITE	HP-X-P-ID-S-S-840-TG-F-277-SC-FC1%-FA50-LGD18W-SW	TWO 10FT SECTION. EMERGENCY BATTERY PACK. EM ILLUMINATED SECTION HIGHLITED IN LIGHTING PLAN.	46
EXIT	EXIT SIGN	SURFACE WALL	LED	0 lm	0 lm	0 K		277 V	5 W		BATTERY	WILLIAMS	EXIT/EL-SF-G-CP-AN-EM-SDT-D		5
F	1'x4' RECESSED BACKLIT FLAT PANEL	RECESSED	LED	4700 lm	0 lm	4000 K	0-10V	277 V	40 W			WILLIAMS	BP-1-4-LS4700-80-CS4000K-DFK1248W-DIM-UNV		14
FE	1'x4' RECESSED BACKLIT FLAT PANEL	RECESSED	LED	4700 lm	0 lm	4000 K	0-10V	277 V	40 W		BATTERY	WILLIAMS	BP-1-4-LS4700-80-CS4000K-DFK1248W-DIM-UNV-RM20EKIT CEC	EMERGENCY BATTERY BACKUP	14
G	4 FT SURFACE MOUNT LED STRIP LIGHT.	SURFACE	LED	4100 lm	0 lm	4000 K	0-10V	277 V	28 W			WILLIAMS	FS-4-LS4100-8-CS4000K-DIM-UNV		8
GE	4 FT SURFACE MOUNT LED STRIP LIGHT.	SURFACE	LED	4100 lm	0 lm	4000 K	0-10V	277 V	28 W		BATTERY	WILLIAMS	FS-4-LS4100-8-CS4000K-DIM-UNV-EM10WKIT		8
Н	UNDERCABINET EDGE LIGHT	SURFACE	LED	930 lm	0 lm	4000 K	0-10V	277 V	18 W			SSL	UNLE-3-4K-WH-MCE-SC UE BK WH-UN50I-DIM	PROVIDE POWER SUPPLY AND ACCESSORIES PER MANUFACTURER INSTRUCTIONS	1
IE	4" RECESSED DOWNLIGHT	RECESSED	LED	800 lm	0 lm	5000 K	0-10V	277 V	10 W		INVERTER	WILLIAMS	4RCD LS800-9-CS5000K-SS-DIM-UNV		1
J	6" RECESSED DOWNLIGHT	RECESSED	LED	2200 lm	0 lm	5000 K	0-10V	277 V	19 W			WILLIAMS	6RCD LS2200-9-CS5000K-SS-DIM-UNV		1.4
JE	6" RECESSED DOWNLIGHT	RECESSED	LED	2200 lm	0 lm	5000 K	0-10V	277 V	19 W		INVERTER	WILLIAMS	6RCD LS2200-9-CS5000K-SS-DIM-UNV		1.4
KE	EXTERIOR FLOOD LIGHT	SURFACE	LED	3000 lm	0 lm	5000 K	LED DRIVER	277 V	19 W		INVERTER	LITHONIA	ESXF1-3000L-5000K-277V-KNUCKLE & MONTING PLATE	TILT FIXTURE AT 45 DEGREES. PROVIDE MOUNTING ACCESSORIES AS REQUIRED.	3
LE	POLE LIGHT	ROUND POLE	LED	7653 lm	0 lm	5000 K	LED DRIVER	277 V	51 W		INVERTER	LITHONIA	DSX1-LED-P1-50K-80CRI-T2M-MVOLT-DDBXD		34
ME	POLE LIGHT	ROUND POLE	LED	10172 lm	0 lm	5000 K	LED DRIVER	277 V	68 W		INVERTER	LITHONIA	DSX1-LED-P2-50K-80CRI-TFTM-MVOLT-DDBXD		34
POLE	ROUND STRAIGHT STEEL POLE											LITHONIA	25FT DARK BRONZE POLE	MOUNTING AND OPTIONS AS REQUIRED. TOTAL 25' AFG REFER TO MOUNTING DETAIL 16 SHEET S-003.	



ZOI I BANK BRONZE I	<u> </u>	REFER TO MOUNTING DETAIL 16 SHEET S-003.
	LI	GHTING CONTROLS SEQUENCE OF OPERATIONS SCHEDULE
LOCAT	ION	
NAME	NUMBER	OPERATION
MAKERSPACE CLASSROOM	101	DIMMING, VACANCY MODE SENSORS, AUTOMATIC DAYLIGHT, 4-POLE SWITCH FOR SPACE LIGHTING & 1-POLE SWITCH FOR UNDERCABINET LIGHT, DEMAND RESPONSE
CLASSROOM	102	DIMMING, VACANCY MODE SENSORS, AUTOMATIC DAYLIGHT, 4-POLE SWITCH FOR SPACE LIGHTING, DEMAND RESPONSE.
CLASSROOM	103	DIMMING, VACANCY MODE SENSORS, AUTOMATIC DAYLIGHT, 4-POLE SWITCH FOR SPACE LIGHTING, DEMAND RESPONSE
CLASSROOM	104	DIMMING, VACANCY MODE SENSORS, AUTOMATIC DAYLIGHT, 4-POLE SWITCH FOR SPACE LIGHTING, DEMAND RESPONSE
IDF	105	VACANCY MODE ON/OFF SENSOR SWITCH, DEMAND RESPONSE
ELECTRICAL	106	ON/OFF SWITCH, DEMAND RESPONSE
GIRLS RESTROOM	107	AUTO-ON PDT OCCUPANCY SENSOR, KEYED ON/OFF SWITCH, DEMAND RESPONSE
CUSTODIAL	108	AUTO ON/OFF SENSOR SWITCH, DEMAND RESPONSE
RR	109	VACANCY MODE ON/OFF SENSOR SWITCH, DEMAND RESPONSE
BOYS RR	110	AUTO-ON PDT OCCUPANCY SENSOR, KEYED ON/OFF SWITCH, DEMAND RESPONSE
CLASSROOM	111	DIMMING, VACANCY MODE SENSORS, AUTOMATIC DAYLIGHT, 4-POLE SWITCH FOR SPACE LIGHTING, DEMAND RESPONSE
CLASSROOM	112	DIMMING, VACANCY MODE SENSORS, AUTOMATIC DAYLIGHT, 4-POLE SWITCH FOR SPACE LIGHTING, DEMAND RESPONSE
CLASSROOM	113	DIMMING, VACANCY MODE SENSORS, AUTOMATIC DAYLIGHT, 4-POLE SWITCH FOR SPACE LIGHTING, DEMAND RESPONSE



LIGHTING SHEET NOTES:

- SEE DRAWING E-001 FOR GENERAL, LIGHTING CONTROLS, LIGHTING, AND DAYLIGHT NOTES.
- SEE DRAWING E-002 FOR ELECTRICAL SYMBOL LEGEND AND TYPICAL MOUNTING HEIGHT INFORMATION.
- ALL OPENINGS AROUND CONDUITS PASSING THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC. SHALL BE PACKED AND SEALED TO CONFORM WITH THE FIRE RATING OF THE PENETRATED STRUCTURE.
- 4. LIGHTING CONTROL PANEL SHALL HAVE AN ASTRONOMIC TIME CLOCK AND DEMAND RESPONSE CAPABILITIES. LIGHTING CONTROL PANEL MODEL SHALL BE nLight ARP WITH nLIGHT ECLYPSE SYSTEM CONTROLLER OR
- 5. CONNECT ALL EXTERIOR LIGHTING TO LIGHTING CONTROL PANEL WITH ASTRONOMIC TIME CLOCK.
- 6. EXTERIOR EMERGENCY LIGHTING SHALL BE CONNECTED TO LIGHTING INVESTIGATION OF THE PROPERTY OF INFORMATION.
- PROVIDE AND INSTALL ALL NECESSARY LIGHTING CONTROL DEVICES AND ASSOCIATED CONTROL CONDUCTORS PER MANUFACTURER INSTRUCTIONS. ALL CABLES SHALL BE INSTALLED INSIDE CONDUIT.

KEYED NOTES

KEY PLAN

1 CONNECT PHOTOCELL TO LIGHTING CONTROL PANEL USING 3/4"C-CAT5E CABLE PER LIGHTING CONTROL PANEL MANUFACTURER INSTRUCTIONS.



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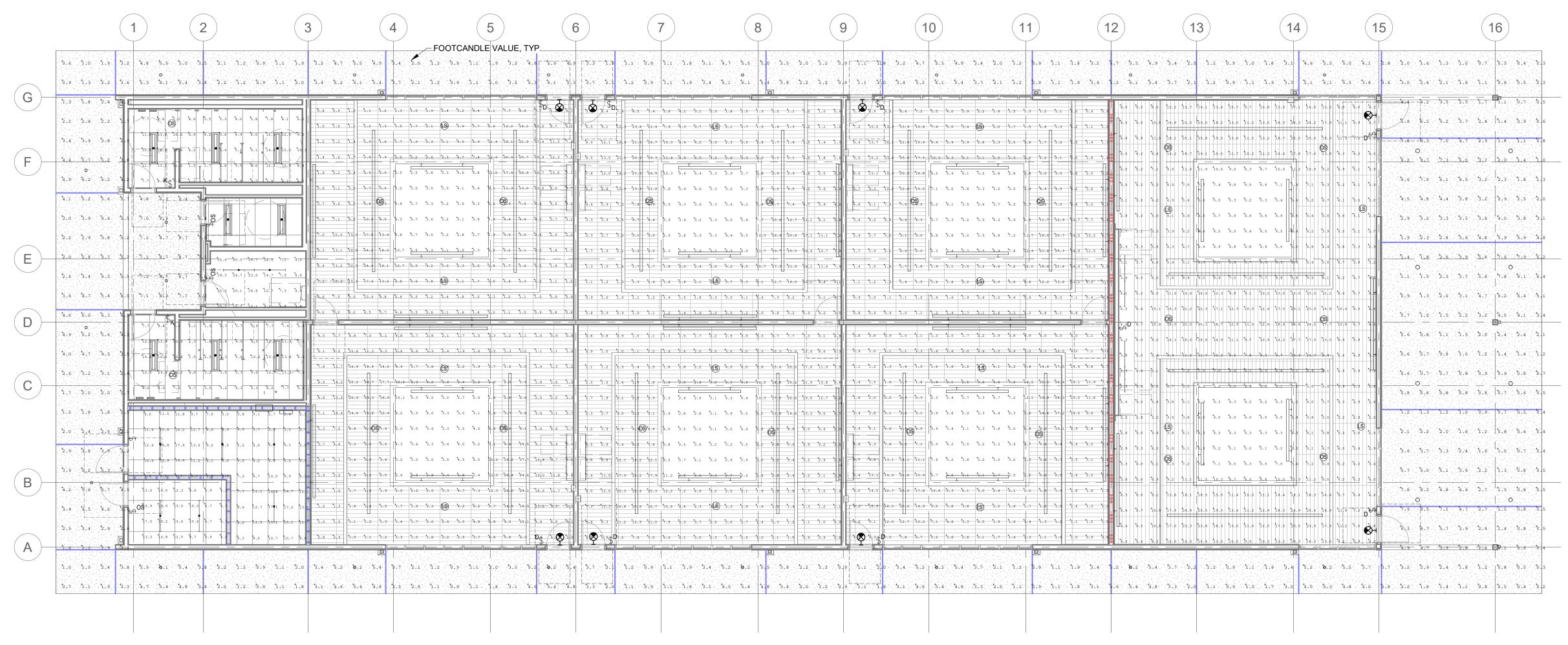
EL101

Inglewood Unified School District

IUSD Bennett-Kew P-8 Academy

11710 S Cherry Ave Inglewood, CA 90303

△ Date Issued For
1 11/5/2024 DSA SUBMITTAL



LIGHTING PLAN - EM PHOTOMETRICS

1/8" = 1'-0"

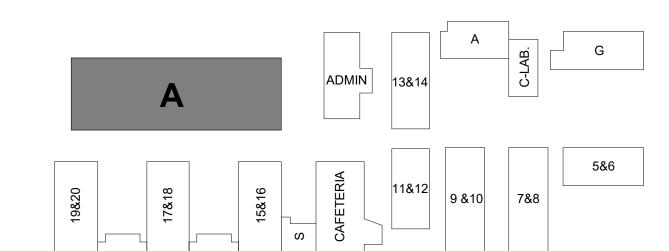
DSA A# 03-124773 FILE # 19-48

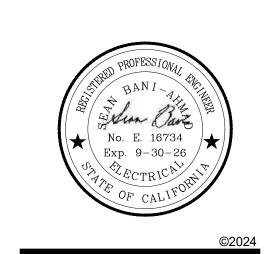
550 South Hope Street
Suite 2500
Los Angeles, California
90071 USA

(213) 542-4500

WWW.HED.DESIGN

KEY PLAN

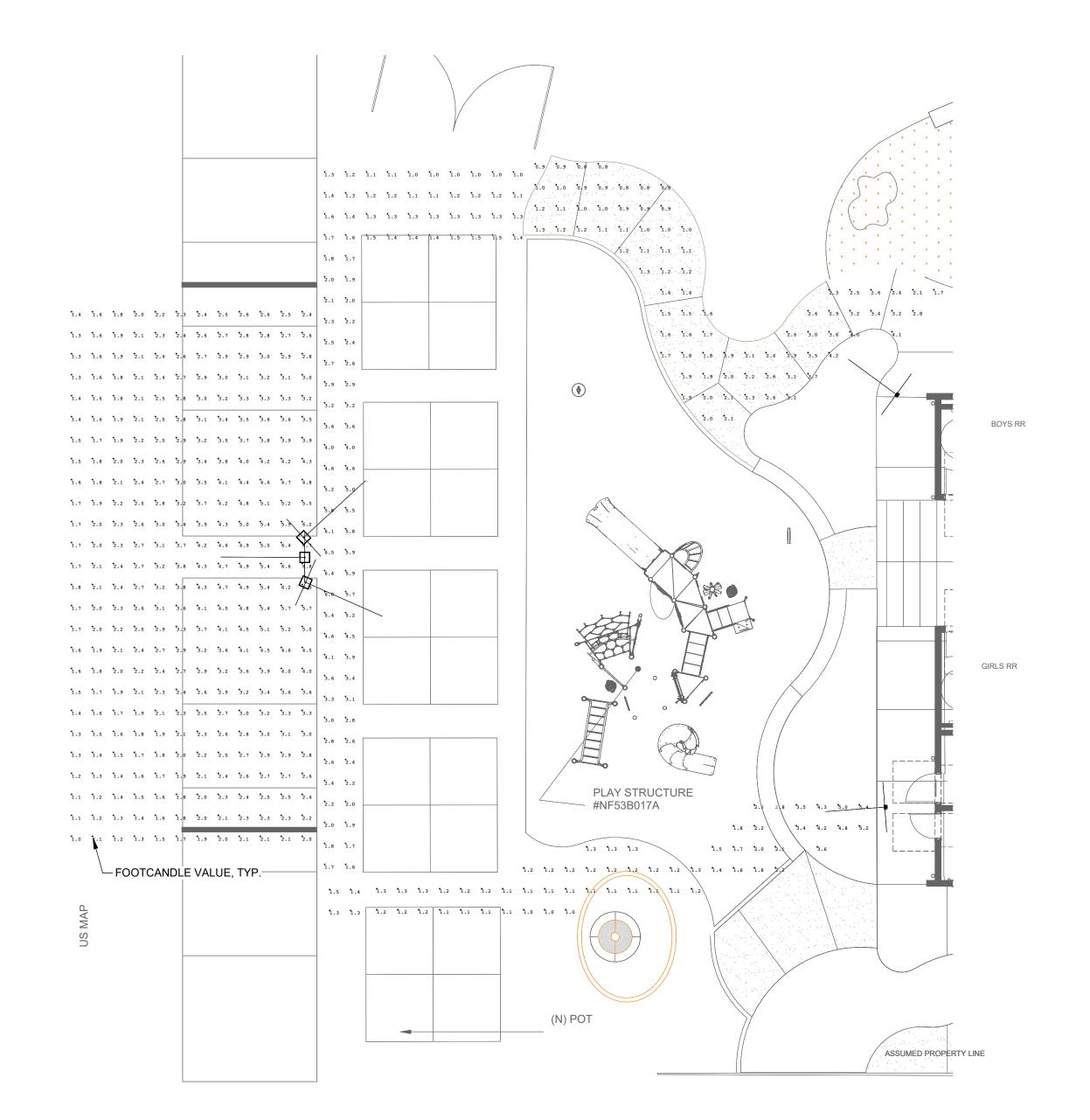




Emergency
Photometrics

EL102

1" = 10'-0"



GENERAL NOTES:

- SAWCUT EXISTING SURFACES AS REQUIRED TO INSTALL UNDERGROUND CONDUIT/CONDUCTORS. PATCH AND REPAIR SURFACES AFTER
- INSTALLATION TO MATCH EXISTING CONDITIONS.2. PAINT ALL NEW EXTERIOR CONDUIT, CONDUCTORS, AND BOXES TO MATCH BUILDING SURFACES.
- 3. ALL PENETRATIONS SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY AND RATING OF THE WALL OR STRUCTURE.

7. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL ELECTRICAL FEEDERS

- REFER TO SAFE DISPERSAL AREA PATH LIGHTING PLAN AND FIRE ALARM SITE PLAN FOR ADDITIONAL TRENCHING REQUIRED.
 BURIAL DEPTHS SHALL COMPLY WITH CEC TABLE 300.5.
- CONNECT ALL EXTERIOR LIGHTING TO LIGHTING CONTROL PANEL WITH ASTRONOMIC TIME CLOCK.
- INFORMATION.

 8. REFER TO STRUCTURAL DRAWINGS FOR LIGHT POLE MOUNTING INFORMATION.

KEYED NOTES

1 LIGHT FIXTURES SHALL BE CONNECTED TO THE CIRCUIT INDICATED VIA LIGHTING INVERTER LOCATED IN THE ELECTRICAL ROOM.

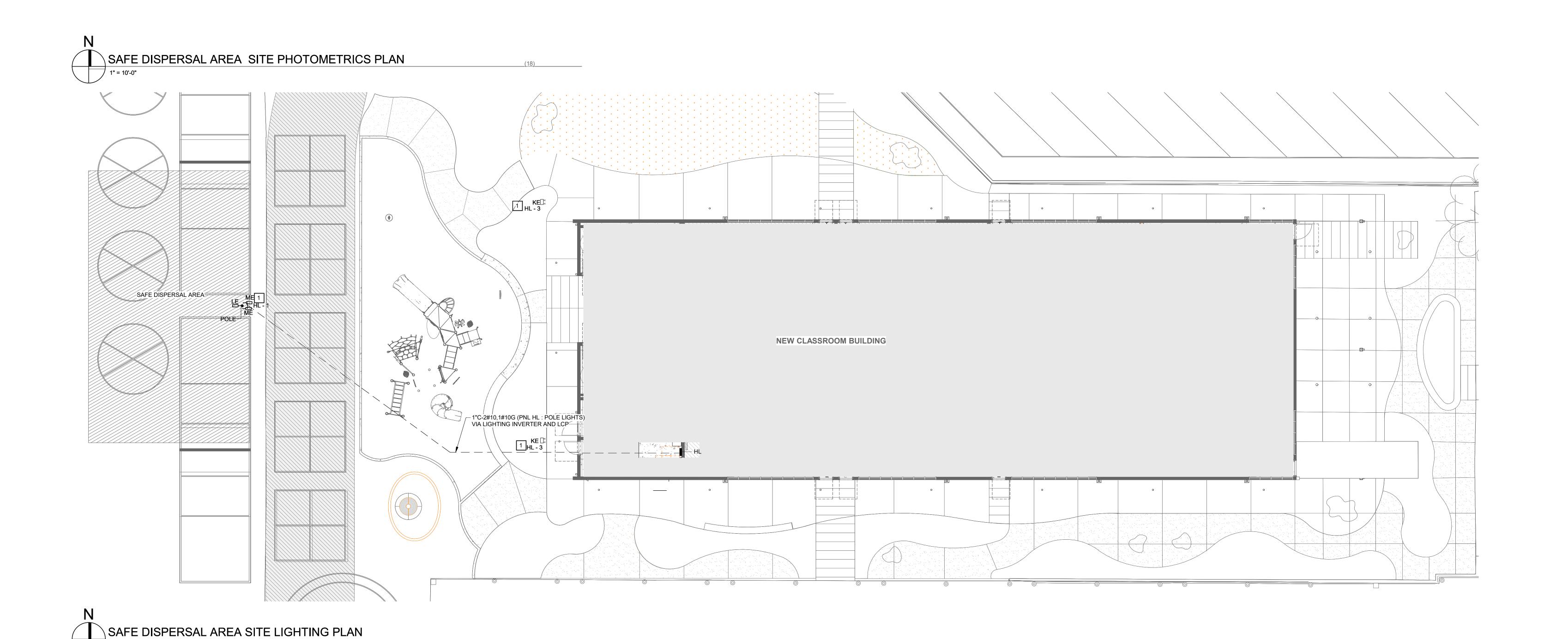


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550 South Hope Street Suite 2500 Los Angeles, California 90071 USA

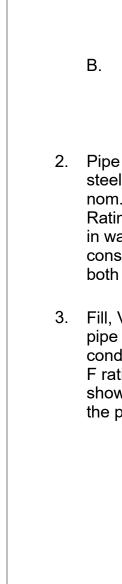
Los Angeles, California 90071 USA (213) 542-4500 WWW.HED.DESIGN

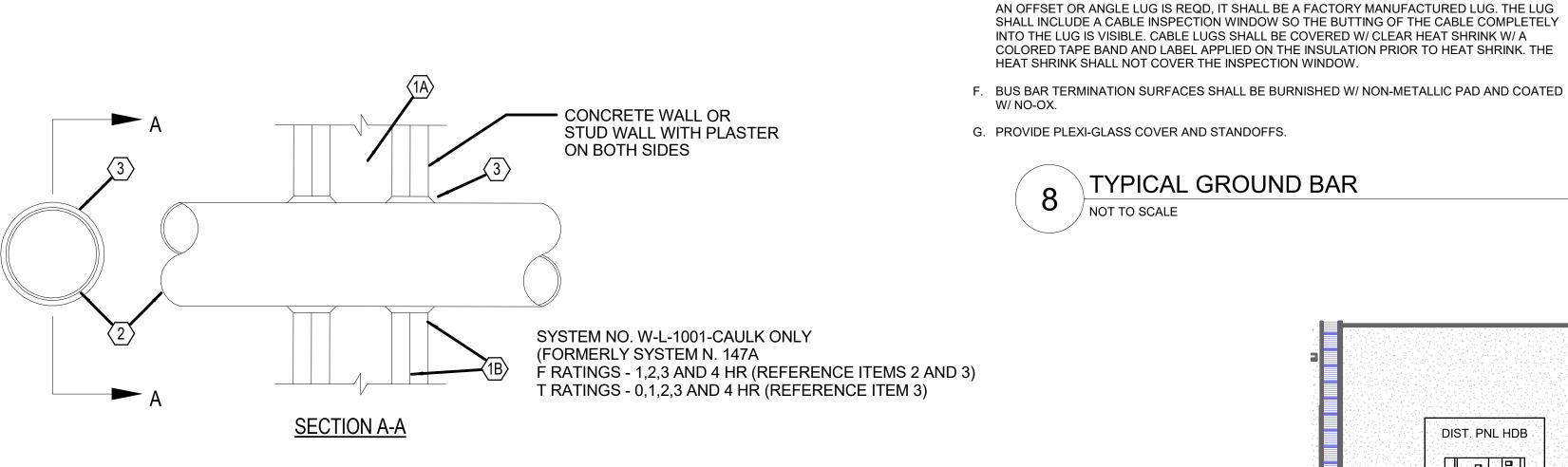


2023-IU002-002

Safe Disperal Area Path Lighting Plan

EL103





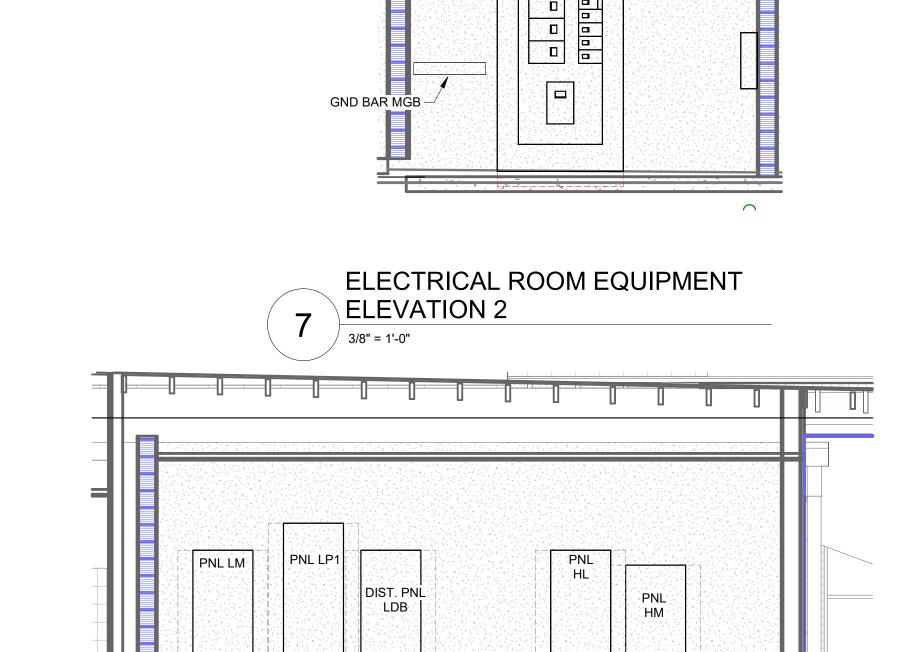
- 1. Wall assembly the 1,2,3 or 4 hr. fire-rated gypsum wallboard/ stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 series wall or partition designs in the U.L. Fire Resistance Directory and shall include the following features:
- Studs-Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) steel channel studs. Wood studs to consist of nominal 2 by 4 in. lumber spaced 16 in. O.C. with nominal 2 by 4 in. lumber end plates and cross braces. Steel studs to be minimum 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. O.C.
- 2. Pipe or Conduit Nom. 12 in. dia. (or smaller) Schedule 10 or (heavier) steel pipe, nom. 6 in. dia. (or smaller) steel conduit, nom. 4 in. dia. (or smaller) steel Electrical metallic Tubing of Type L (or heavier) copper tubing or nom. 1in. dia. (or smaller) flexible steel conduit. When copper pipe or flexible steel conduit is used, max. F Rating of firestop system (item 3) is 2 hr. Steel pipes or conduits larger then nom 4 in. dia. may only be used in walls constructed using steel channel studs. A max of one pipe or conduit is permitted in the firestop wall constructed using steel channels studs. A max of one pipe or conduit is permitted in the rigidly supported on both sides of wall assembly.
- 3. Fill, Void or Cavity Material* Caulk** Caulk fill material installed to completety fill annular space between pipe or conduit and gypsum wallboard and with a min. 1/4 in. dia. bead of caulk applied to perimeter of pipe or conduit at its egress from the wall. Caulk installed symmetrically on boths sides of wall assembly. The hourly F rating of the firestop system is dependent upon the hourly fire rating of wall assembly in which is installed as shown in the following table. The hourly T rating of the fire stop system is dependent upon the type or size of the pipe or conduit and the hourly fire ratings of the wall assembly in which is installed, as tabulated below:

MAX PIPE OR CONDUIT DIAMETER, IN.	FIRESTOP ANNULAR SPACE, IN.	F RATING, HR.	T RATING, HR.
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

+ When copper pipe is used, T rating is 0 hour.

1966 (UL 2079)

- * FIRESTOP TESTED UP TO 4 HOURS IN ACCORDANCE WITH ASTM E 814 (UL 1479). FIRE RESISTANCE TESTED FOR STATIC CONSTRUCTIÓN JOINT SYSTEMS IN ACCORDANCE WITH ASTM E
- ** Mining & Mfg. Co. Types CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB+.
- PENETRATION FIRESTOP SYSTEM / NOT TO SCALE



3/4" UNISTRUT SECURED

TO WALL STUDS -

1 INCH OFFSET SST

MOUNTING BRACKET

(NEWTON PN A-6056)

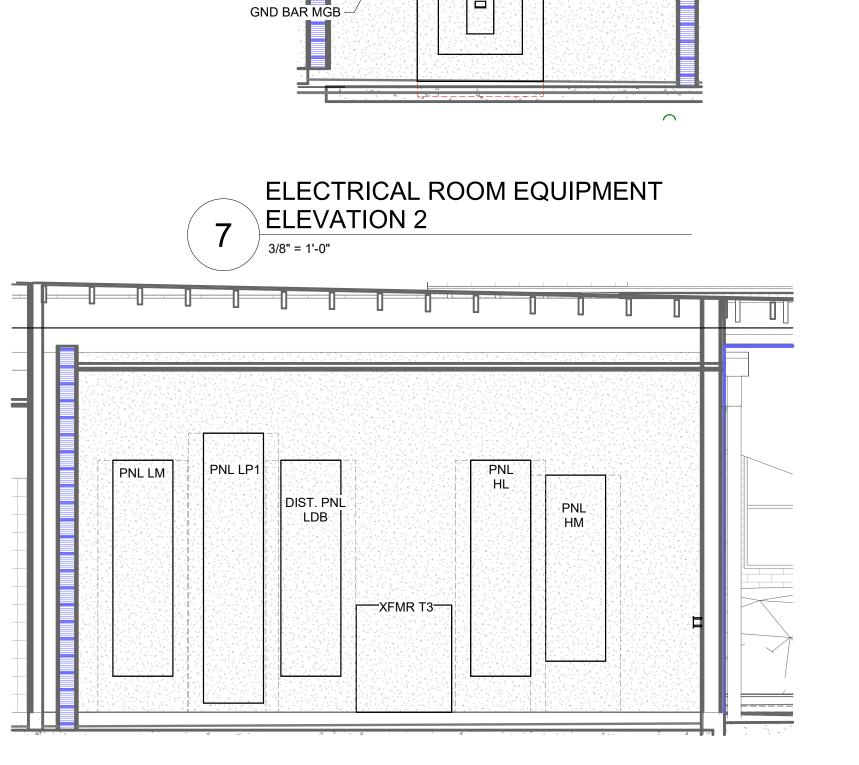
CLEAR 3/8" THICK PLEXI-

GLASS COVER W/ 2" HIGH

LETTERING OF GROUND

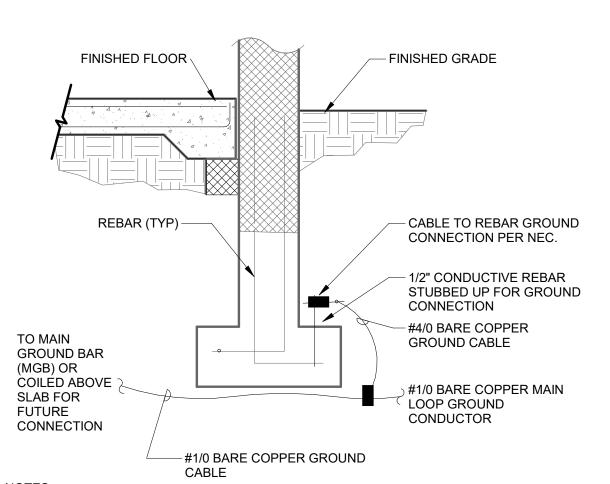
2-3/4" INSULATOR

BAR NAME -



DIST. PNL HDB

ELECTRICAL ROOM EQUIPMENT ELEVATION 1

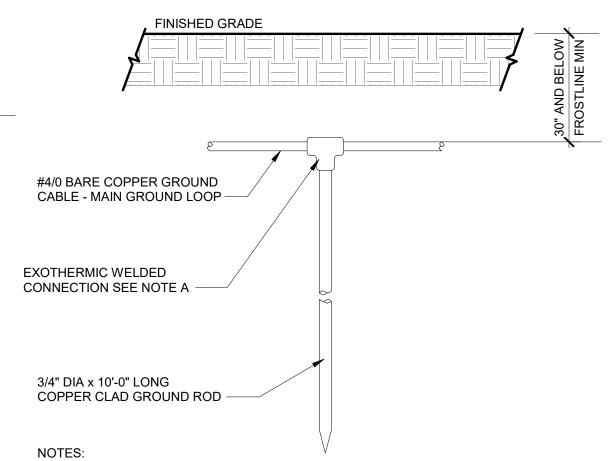


A. AREA OF EXOTHERMIC WELD TO BE PREPARED BY GRINDING OR WIRE BRUSH

B. ALL UNDERGROUND EXOTHERMIC WELDED CONNECTIONS AND EXPOSED REBAR SHALL BE COMPLETELY COVERED W/ CARBOMASTIC 615MC OR APPROVED EQUAL FOR CORROSION PROTECTION PER NEC250.68(C)(3).

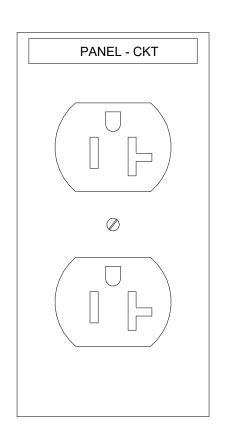
C. COORDINATE REBAR DETAIL AND LOCATIONS W/ STRUCTURAL ENGINEER. LOCATE GROUND CONNECTION AT EACH SERVICE PER ELECTRICAL CODE.

FOUNDATION REBAR UNDER **GROUND CONNECTION**



A. AREA OF EXOTHERMIC WELD TO BE PREPARED BY GRINDING OR WIRE BRUSH CLEANING

GROUND ROD



NOTES:

- 2-FOOT MIN LENGTH W/ BOLT HOLE CONFIGURATION

7/16" HOLES

INSULATED STRANDED COPPER WIRE W/

REFER TO GROUND RISER DIAGRAM. -

COMP LUG FROM BUILDING GROUND LOOP.

NEWTON PN A-6056

5/16" HEX HEAD 4

THICK PLEXI-

FASTENERS

DETAIL

GLASS COVER

PLACES (MIN) -

WALL STUD/ DETAIL

A. BOLTED CONNECTIONS SHALL BE MADE W/ SST HARDWARE AND SHALL BE TORQUED IN

B. AFTER INSTALLATION, ADDL HOLES SHALL NOT BE DRILLED IN GROUND BARS.

D. PROVIDE FRONT TERMINATIONS ONLY; DO NOT DOUBLE-LUG CONNECTIONS.

TYPICAL GROUND BAR

HEAT SHRINK SHALL NOT COVER THE INSPECTION WINDOW.

TO SHOW FULL TORQUED POSITION OF NUT.

AS FOLLOWS. UNLESS OTHERWISE INDICATED:

• 5/16" HOLE SETS ON 5/8" CENTERS.

9/16" HOLE SETS ON 1 3/4" CENTERS.

7/16" HOLE SETS ON 1" CENTERS.

ACCORDANCE W/ MANUFACTURER'S SPECIFICATIONS. BOLTS SHALL FACE OUT FROM THE

BACK OF THE BUS/GROUND BARS W/ THE NUT VISIBLE FROM THE FRONT. CONNECTIONS

C. GROUND BARS SHALL BE hCOPPER W/ PRE-DRILLED HOLES. PROVIDE GROUND BAR HOLE SETS

E. CRIMP CONNECTIONS SHALL BE BURNDY ELLIPTICAL TYPE. THE LUGS SHALL BE TWO-HOLE

LONG BARREL TYPE AND NO-OX SHALL BE APPLIED. LUG BENDING IS NOT ACCEPTABLE. WHERE

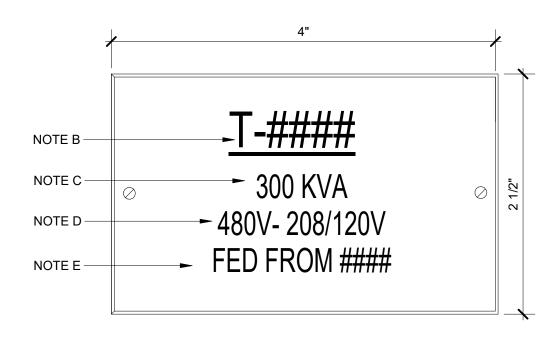
AN OFFSET OR ANGLE LUG IS REQD, IT SHALL BE A FACTORY MANUFACTURED LUG. THE LUG SHALL INCLUDE A CABLE INSPECTION WINDOW SO THE BUTTING OF THE CABLE COMPLETELY INTO THE LUG IS VISIBLE. CABLE LUGS SHALL BE COVERED W/ CLEAR HEAT SHRINK W/ A COLORED TAPE BAND AND LABEL APPLIED ON THE INSULATION PRIOR TO HEAT SHRINK. THE

SHALL BE MADE W/ A TORQUE WRENCH AND SHALL BE MARKED W/ A MARKER OR PAINT STRIPE

1/S-007

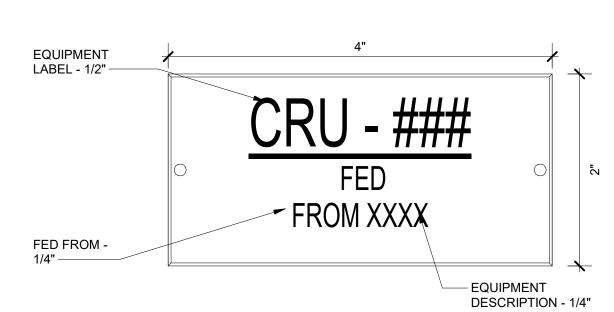
- A. TEXT IS 1/8" HIGH (4MM) NORMAL WIDTH AND STYLE, BLACK LETTERING ON CLEAR
- B. ENGRAVED NAMEPLATE OR EXTRA STRENGTH LAMINATED TZ TAPE BY P-TOUCH OR APPROVED EQUIVALENT
- C. INSTALL GROUND PIN OF VERTICALLY MOUNTED RECEPTACLE UP, AND ON HORIZONTALLY MOUNTED RECEPTACLES TO THE LEFT.

IDENTIFICATION - OUTLET



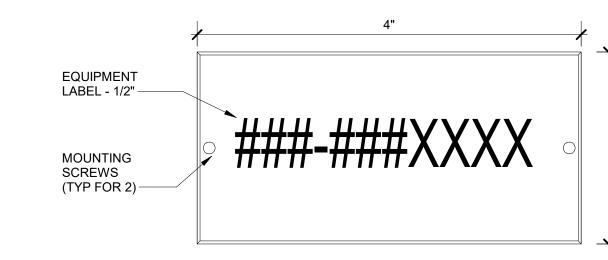
A. TYPICAL FOR ALL TRANSFORMERS. B. REPLACE #### W/ ACTUAL EQUIPMENT NUMBER. INDICATE TRANSFORMER POWER RATING. INDICATE TRANSFORMER VOLTAGE RATING. E. REPLACE XXXX W/ PANEL NUMBER / CIRCUIT NUMBER.

TYPICAL TRANSFORMER NAMEPLATE NOT TO SCALE



TYPICAL EQUIPMENT NAMEPLATE

A. TYPICAL AT EQUIPMENT, REMOTE DEVICES, DISCONNECTS, ETC. B. REPLACE ###-### W/ ACTUAL EQUIPMENT NUMBER C. REPLACE XXXX W/ PANEL NUMBER AND CIRCUIT NUMBER.



TYPICAL SMALL BREAKER NAMEPLATE SCALE: NTS

A. TYPICAL AT SINGLE POLE CB ON DISTRIBUTION SWITCHBOARDS, DISTRIBUTION PANEL, ETC.

B. REPLACE ###-### W/ ACTUAL EQUIPMENT IDENTIFICATION TAG REPLACE XXXX W/ CIRCUIT NUMBER

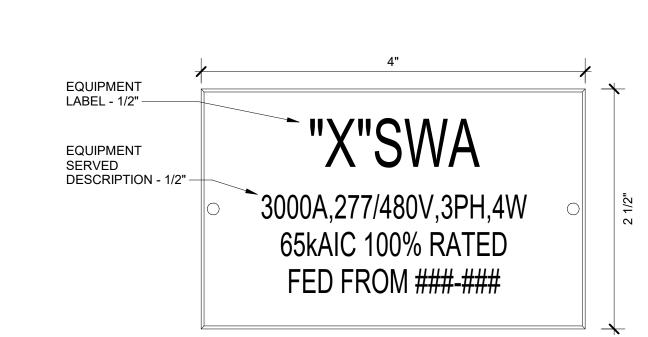
D. EXAMPLE: FCU - 3, CKT #4 E. INDIVIDUAL CB NAMEPLATES NOT REQD ON 250A OR LESS PANELBOARDS W/ TYPE WRITTEN CIRCUIT DIRECTORIES WHEN CBs HAVE INDIVIDUAL CIRCUIT NUMBERS INDICATED ADJACENT TO CB.

EQUIPMENT LABEL - 1/2" — **EQUIPMENT** SERVED DESCRIPTION - 1/2" **COMPUTER ROOM UNIT**

TYPICAL LARGE BREAKER NAMEPLATE

SCALE: NTS A. TYPICAL NAME PLATE AT 2 OR 3 POLE CB ON SWITCHBOARD,

B. REPLACE ###-### W/ ACTUAL EQUIPMENT NUMBER. C. REPLACE XXXX W/ CIRCUIT PANEL NUMBER.



TYPICAL DISTRIBUTION EQUIPMENT NAMEPLATE

- A. TYPICAL FOR EACH OF SWITCHBOARD, PANELBOARD, ETC. B. NAMEPLATE SIZE TO BE DETERMINED BY TEXT
- REQUIREMENTS. NOMINAL SIZES INDICATED. C. REPLACE SAMPLE TEXT W/ ACTUAL EQUIPMENT RATINGS.

EQUIPMENT TAGS NOT TO SCALE



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DSA A# 03-124773 FILE # 19-48

550 South Hope Street Suite 2500 Los Angeles, California 90071 USA (213) 542-4500



2023-IU002-002

Electrical Details

E-581

STATE OF CALIFORNIA											
ndoor Lighting									CALIFORN	NIA ENERGY	COMMISSION NRCC-LT
This document is used to demonst	trate compliance w	uith requirem	ents in 110 9 1	10 12(c) 130 0 1	130 1	1 140 6 and 141 0	(h)2 for indoo	r liahtina sco	nes usina the	nrescrintive	
nonresidential and hotel/motel o											
oath for multifamily occupancies.	Multifamily includ	les dormitory	and senior livin	g facilities.							
Project Name: Bennett-Kew P-8 A	cademy			Repo							(Page 1 o
Project Address:				Date	Prep	pared:				2024-10-02T	00:09:53-04
A. GENERAL INFORMATION											
D1 Project Location (city)	Inglew	vood			04	Total Conditioned	Floor Area (ft	²) 8,	662		
02 Climate Zone	8				05	Total Uncondition	ed Floor Area	(ft ²) 0			
03 Occupancy Types Within Proje	ect (select all that a	apply):			_	# of Stories (Habit					
• Classroom						· · · · · · · · · · · · · · · · · · ·		, ,			
Classicom											
B. PROJECT SCOPE											
his table includes any lighting sy	 stems that are with	hin the scope	of the permit a	pplication and ar	e de	monstrating comp	liance using t	he prescripti	ve path outlin	ed in 140.6	/ 170.2(e)
41.0(b)2 / 180.2(b)4 for alteration	ns.										
So	cope of Work				Cor	nditioned Spaces			Uncondit	ioned Space	es
	01			(02		03		04		05
My Project Cons	ists of (check all th	at apply):		Calculation	on M	lethod	Area (ft²)	Ca	lculation Met	hod	Area (ft²
				Complete Bu	ıildin	g Method	8662		N/A		0
☐ New Lighting System - Parki	ing Garage			N	I/A		0		N/A		0
	Area of Work (ft²)					8662				I	
CA Building Energy Efficiency Standa	rds - 2022 Nonreside	ential Complia	nce	Generated Da Report Version Schema Version	n: 20	22.0.000		C	Oocumentation Complia Report Gene	ance ID: 2284	91-1024-00
tate of California ndoor Lighting	ırds - 2022 Nonreside	ential Complia	nce	Report Versio	n: 20	22.0.000		C	Complia Report Gene	ance ID: 2284	91-1024-00 0-01 21:09:
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CA Building Energy Efficiency Standa STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE Project Name: Bennett-Kew P-8 A		ential Complia	nce	Report Versio Schema Versio Repo	n: 20 on: re	22.0.000 ev 20220101 nge:		C	Complia Report Gene CALIFORN	ance ID: 2284 rated: 2024-1 NIA ENERGY	91-1024-00 0-01 21:09 COMMISS NRCC- (Page 4
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	01		UZ						5	
Mandatory	Demand Response 110.12(c)			Shut-off controls 130.1(c) / 160.5(b)4C						
·								Pass	Fail	
·	4,000W subject to multilevel		See Area/Space Level Controls							
Area Level Controls	T	I							_	
04	05	06	07	08	09	10	11	1	2	
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) /	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field In	spector	
		, ,	` '		160.5(b)4D	, ,	` ,	Pass	Fail	
Makerspace classroom 101	School or Classroom	Readily Accessible	Multilevel Switch	Occupancy Sensor	Included	Included	Yes			
Classroom 102	School or Classroom	Readily Accessible	Multilevel Switch	Occupancy Sensor	Included	Included	No			
Classroom 103	School or Classroom	Readily Accessible	Multilevel Switch	Occupancy Sensor	Included	Included	No			
Classroom 104	School or Classroom	Readily Accessible	Multilevel Switch	Occupancy Sensor	Included	Included	No			
Classroom 111	School or Classroom	Readily Accessible	Multilevel Switch	Occupancy Sensor	Included	Included	No			
Classroom 112	School or Classroom	Readily Accessible	Multilevel Switch	Occupancy Sensor	Included	Included	No			
Classroom 113	School or Classroom	Readily Accessible	Multilevel Switch	Occupancy Sensor	Included	Included	No			
IDF 105	School or Classroom	Auth. Personnel	NA: General Ltg <= 0.5W/SF	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No			
			Generated Date	te/Time:		D	ocumentation	Software: Ene	rgy Code Ace	
CA Building Energy Efficiency Stan	dards - 2022 Nonresidential Complia	nce	Report Versior Schema Versio	n: 2022.0.000 on: rev 20220101				ance ID: 22849 rated: 2024-10		
TATE OF CALIFORNIA ndoor Lighting							CALIFORN	IIA ENERGY C		
CERTIFICATE OF COMPLIANCE									NRCC-LTI-	

CERTIFICATE OF COMPLIANCE		
Project Name: Bennett-Kew P-8 Academy	Report Page:	(
	Date Prepared:	2024-10-02T00:
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VA	LUABLE MERCHANDISE	
This section does not apply to this project.		
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POW	VER ADJUSTMENT FACTOR (PAF))	
This section does not apply to this project.	ER ADJOSTNIENT FACTOR (FALT)	
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 - CONTROL	LS EXCEPTIONS	
This section does not apply to this project.		
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)		
This section does not apply to this project.		
This section does not apply to this project.		
T. DWELLING UNIT LIGHTING		
This section does not apply to this project.		
U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLAT	TION	
Selections have been made based on information provided in this of		t an evolanation should be included in Tal
Additional Remarks. These documents must be provided to the bui		i, an explanation should be included in Tak
	Form/Title	

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Documentation Software: Energy Code Ace

Compliance ID: 228491-1024-0007

Report Generated: 2024-10-01 21:09:55

STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Bennett-Kew P-8 Academy	Report Page:	(Page 2 of 9)
	Date Prepared:	2024-10-02T00:09:53-04:00

f any cell on this tabl	e says "DOES I	NOT COMPLY"	or "COMPLIES"	with Exception	ai Co	onditions" refe	r to						
	Allo	wed Lighting F	ower per 140.	6(b) / 170.2(e)) (Wa	atts)		Adjusted Ligh	nting Power per (Watts)	140.	.6(a) / 170.2(e)		Compliance Results
Lighting in	01	02	03	04		05		06	07		08		09
conditioned and unconditioned			Area]		Adjustments				
spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	Total Allowed (Watts)	2	Total Designed (Watts)	PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	Total Adjusted (Watts) *Includes Adjustments		05 must be >= 08 140.6 / 170.2(e)
	(See Table I)	(See Table I)	(See Table J)	(See Table K)	1			(See Table F)	(See Table P)				
Conditioned	5,211				=	5,211	2	4,858		=	4858		COMPLIES
Unconditioned					=		2			=			
								Contro	ls Compliance (See	Table H for Detail	ls)	COMPLIES
						Rat	ed P	ower Reductio	on Compliance (See T	Table Q for Detail	s)	

D. EXCEPTIONAL CONDITIONS	
This table is auto-filled with uneditable comments because of selections made or data entered in tables through	nout the form.
E. ADDITIONAL REMARKS	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 228491-1024-0007 Report Generated: 2024-10-01 21:09:55
STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION
maoor Eighting		CALIFORNIA ENERGY COMMUNISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Bennett-Kew P-8 Academy	Report Page:	(Page 5 of 9)
	Date Prepared:	2024-10-02T00:09:53-04:00

Generated Date/Time:

Electrical 106	School or Classroom	Auth. Personnel	NA: General Ltg <= 0.5W/SF	NA: Elec. equip. rm	NA: Not daylit zone	NA: Not daylit zone	No		[
Girls Restroom 107	School or Classroom	Auth. Personnel	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		
Custodial 108	School or Classroom	Auth. Personnel	Multilevel Switch	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		Г
Restroom 109	School or Classroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		
Boys Restroom 110	School or Classroom	Auth. Personnel	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No		
							13		
						Plan Sheet	Showing Da	ylit Zones:	
							FI 101		

ch area complying using the Comp 0.6(c) or adjustments per 140.6(a)	llete Building or Area Category Methods per 140.6(I are being used .	b) are included in thi	s table. Column	06 indicates if addition	nal lighting power a	llowances per
nditioned Spaces						
01	02	03	04	05	0	6
Avea Description	Complete Building or Area Category Primary	Allowed Density	A (5+2)	Allowed Wattage	Additional Allowa	ince / Adjustment
Area Description	Function Area	(W/ft ²)	Area (ft ²)	(Watts)	Area Category	PAF
Makerspace classroom 101	School or Classroom	0.6	1,932	1,159.2	No	No
Classroom 102	School or Classroom	0.6	963	577.8	No	No
Classroom 103	School or Classroom	0.6	963	577.8	No	No
Classroom 104	School or Classroom	0.6	963	577.8	No	No
Classroom 111	School or Classroom	0.6	963	577.8	No	No
Classroom 112	School or Classroom	0.6	963	577.8	No	No
Classroom 113	School or Classroom	0.6	963	577.8	No	No

STATE OF CALIFO	ORNIA		
Indoor Lig	ghting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE C	OF COMPLIANCE		NRCC-LTI-E
Project Name:	: Bennett-Kew P-8 Academy	Report Page:	(Page 8 of 9)

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

Date Prepared:

Selections have been made based on information provided in this document. If any selections have been changed by the pern Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in th Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.	e form name must be completed through an Acceptance
Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Makerspace classroom 101; Classroom 102; Classroom 103; Classroom 104; Classroom 111; Classroom 112; Classroom 113; IDF 105 Girls Restroom 107; Custodia 108; Restroom 109; Boys Restroom 110
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Makerspace classroom 101; Classroom 102; Classroom 103; Classroom 104; Classroom 111; Classroom 112; Classroom 113
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Makerspace classroom 101; Classroom 102; Classroom 103; Classroom 104; Classroom 111; Classroom 112; Classroom 113; IDF 10 Electrical 106; Girls Restroo 107; Custodial 108; Restroo 109; Boys Restroom 110

	Generated Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 228491-1024-0007 Report Generated: 2024-10-01 21:09:55

STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Bennett-Kew P-8 Academy	Report Page:	(Page 3 of 9)
	Date Prepared:	2024-10-02T00:09:53-04:00

F. INDOOR LIG	HTING FIXTURE SCHEDUL	.E								
	des all planned permanent an Table T. If using Table T to do re.		-	-						
Designed Watta	age: Conditioned Spaces									
01	02	03	04	05	06	07	08	09	1	0
Name or Item	r Item Complete Luminaire Modular Small Watts per How is Wattage Total Number Excluded per					Excluded per		Field In	spector	
Tag	Complete Luminaire Description	(Track) Fixture	Aperture & Color Change ¹	luminaire ²	How is Wattage determined	Total Number of Luminaires	140.6(a)3 / 170.2(e)2C	Design Watts	Pass	Fail
A & AE	Linear Pendant Fixture	No	NA	123	Mfr. Spec	12	No	1,476		
В	Linear Surface Mount	No	NA	55	Mfr. Spec	16	No	880		
С	Linear Wall Wash	No	NA	82	Mfr. Spec	15	No	1,230		
DE	Linear Pendant Fixture	No	NA	164	Mfr. Spec	4	No	656		
F & FE	Recessed Flat Panel	No	NA	40	Mfr. Spec	8	No	320		
G & GE	Surface Mount Strip	No	NA	28	Mfr. Spec	8	No	224		
Н	Undercabinet Light	No	NA	18	Mfr. Spec	4	No	72		
					Total Design	ed Watts: CON	DITIONED SPACES	4,858		

¹FOOTNOTE: 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. ²Authority 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

G. MODULAR LIGHTING SYSTEMS

CERTIFICATE OF COMPLIANCE

This section does not apply to this project.

This section does not apply to this project.

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

Documentation Software: Energy Code Ace

Documentation Software: Energy Code Ace

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2024-10-02T00:09:53-04:00

luminaire, not the lamp.

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 228491-1024-0007 Report Generated: 2024-10-01 21:09:55
STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION

Generated Date/Time:

Project Name: E	Bennett-Kew P-8 Acade	my	Report Page:				(Page 6 of 9
			Date Prepared:			2024-1	.0-02T00:09:53-04:0
I. LIGHTING POV	VER ALLOWANCE:	COMPLETE BUILDING OR AREA CATEGORY	METHODS				
IDI	105	School or Classroom	0.6	97	58.2	No	No
Electr	ical 106	School or Classroom	0.6	287	172.2	No	No

IDF 105	School or Classroom	0.6	97	58.2	No	No
Electrical 106	School or Classroom	0.6	287	172.2	No	No
Girls Restroom 107	School or Classroom	0.6	204	122.4	No	No
Custodial 108	School or Classroom	0.6	98	58.8	No	No
Restroom 109	School or Classroom	0.6	85	51	No	No
Boys Restroom 110	School or Classroom	0.6	204	122.4	No	No
		TOTALS:	8,685	5,211	See Tables J,	or P for detail

This section does not apply to this project.	
K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE	

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILO		
This section does not apply to this project.		

	Generated Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 228491-1024-0007 Report Generated: 2024-10-01 21:09:55

state of california Indoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Bennett-Kew P-8 Academy	Report Page:	(Page 9 of 9)
Project Address:	Date Prepared:	2024-10-02T00:09:53-04:00

I certify that this Certificate of Compliance documentation is	accurate and complete.
Documentation Author Name:	Documentation Author Signature:
Felipe Carvalho	Talya Dorbal Court
Company: HED	Signature Date: 10/01/2024
Address: 550 S Hope St # 2500	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Los Angeles/CA/90071	Phone: (213) 802-0766
RESPONSIBLE PERSON'S DECLARATION STATEMENT	·
I certify the following under penalty of perjury, under the laws of the State of Californi	a:
1. The information provided on this Certificate of Compliance is true and cor	rect.
2. I am eligible under Division 3 of the Business and Professions Code to acce	ept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
 The energy features and performance specifications, materials, componer of Title 24, Part 1 and Part 6 of the California Code of Regulations. 	nts, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requireme
 The building design features or system design features identified on this C plans and specifications submitted to the enforcement agency for approva 	ertificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, al with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance	e 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	
inspections. I understand that a completed signed copy of this Certificate	Responsible Designer Signature: Sun Can
inspections. I understand that a completed signed copy of this Certificate	4 - 4
inspections. I understand that a completed signed copy of this Certificate Responsible Designer Name: Sean Bani	Responsible Designer Signature: Sun Ban

Generated Date/Time: Documentation Software: Energy Code Ace CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Compliance ID: 228491-1024-0007 Report Generated: 2024-10-01 21:09:55 Schema Version: rev 20220101



Inglewood Unified School District

IUSD Bennett-Kew P-8 Academy

11710 S Cherry Ave Inglewood, CA 90303

Documentation Software: Energy Code Ace

NRCC-LTI-E

△ Date Issued For 1 11/5/2024 DSA SUBMITTAL

DSA A# 03-124773 FILE # 19-48



WWW.HED.DESIGN



2023-IU002-002

Interior Lighting Title 24 Documents

Ou	tdoor Lighting					CALIFORNIA ENERGY COMMISSIO
CER	TIFICATE OF COMPLIANCE					NRCC-LTO
non		It is a	lso used to document compliance with r	equirer		pes using the prescriptive path for 80.2(b)4Bv for outdoor lighting scopes using
Proj	ect Name: Bennett-Kew P-8 Academy			Repo	ort Page:	(Page 1 of
Proj	ect Address:			Date	Prepared:	2024-10-02T00:21:08-04:0
Α. σ	GENERAL INFORMATION					
	GENERAL INFORMATION Project Location (city)	Ingle	ewood		T-1111	2140
	T	Ingle	ewood	04	Total Illuminated Hardscape Area (ft ²)	8140
01	Project Location (city)	8				8140
01 02	Project Location (city) Climate Zone	8 1 10.1		g Juriso		
01 02	Project Location (city) Climate Zone Outdoor Lighting Zone per Title 24 Part	8 1 10.1	114 or as designated by Authority Havin	g Juriso	liction (AHJ):	

B. PROJECT SCOPE						
This table includes outdoor lighting systems that are within to 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.	he scope of the permit application and are demonstrating complianc	e using the prescriptive path outlined in 140.7 :				
My Project Consists of:						
01	02					
☑ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6					
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	Yes No				
03	04	05				
% of Existing Luminaires Being Altered ¹	Sum Total of Luminaires Being Added or Altered	Calculation Method				
□ < 10% □ >= 10% and < 50% □ >= 50%						
Please proceed to Table F. Outdoor Lighting Fixture Schedul	e to define the project's luminaires.					

¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Classroom

	Generated Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 228491-1024-0008 Report Generated: 2024-10-01 21:21:10
STATE OF CALIFORNIA		
Outdoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Bennett-Kew P-8 Academy	Report Page:	(Page 4 of 8)
	Date Prepared:	2024-10-02T00:21:08-04:00

his table inc i.106.8.	ludes fixtures of >=6,20	0 initial lumens indicate	ed on Table	F as needing	to comply with Si	hielding Req	uirements. I	Maximum lumens can b	e found in T	Title 24, Part	: 11, Se	ction	
01	02	03	04	05	06	07	08	09	10	11	1	2	
	Backlight Rating ²				Uplight Rating ²			Glare Rating (Lumens) ²			Field Inspector		
'		Complete Luminaire Description	Mounting Height ¹	Max Allowable Backlight Rating ³	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating ³	Uplight Rating Per Design	Mounting Height ¹	Max Allowable Glare Rating ³	Glare Rating Per Design	Pass	Fai
LE	I Pole Light	2 MH from property line	No Limit	B1	Area Lighting	U0	U0	> 2 MH from property line	G3	G3			
ME	I POLE LIGHT	2 MH from property line	No Limit	B2	Area Lighting	U0	U0	> 2 MH from property line	G3	G3			

¹FOOTNOTES: Mounting Height is labeled MH in this table.

² Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b)/ 160.5(c)

³ BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.

	Generated Date/Time:	Documentation Software: Energy Code Ace	
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 228491-1024- Report Generated: 2024-10-01 21:2	
STATE OF CALIFORNIA			
Outdoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E	
Project Name: Bennett-Kew P-8 Academy	Report Page:	(Page 7 of 8)	
	Date Prepared:	2024-10-02T00:21:08-04:00	

	Date Prepared:	2024-10-02T00:21:08-0 ⁴
M. LIGHTING ALLOWANCE: PER SPECIFIC AREA		
This section does not apply to this project.		
N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)		
This section does not apply to this project.		
O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION		
Selections have been made based on information provided in this document. If any selection Additional Remarks. These documents must be provided to the building inspector during cor		an explanation should be included in Table E.
Form	n/Title	
NRCI-LTO-E - Must be submitted for all buildings		
The Elo E Mass se submitted for an bandings		

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE								
Selections have been made based on information provided in this document. If any selection has 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 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							
	Exterior: "IE"; Exterior: "J & JE"; Exterior: "KE"; Exterior: "LE"; Exterior: "ME"							

	Generated Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 228491-1024-0008 Report Generated: 2024-10-01 21:21:10

STATE OF CALIFORNIA Outdoor Lighting CALIFORNIA ENERGY COMMIS							
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E					
Project Name: Bennett-Kew P-8 Academy	Report Page:	(Page 2 of 8)					
	Date Prepared:	2024-10-02T00:21:08-04:00					

		are automatica nal Conditions f		-		•			roug	h N. Note: If an	y cell	on this table says "(COMF	PLIES with Exception	al Conditions" refe
Calcu	latio	ns of Total Allo	wed	Lighting Power	(Wa	tts) 140.7 / 170).2(e)6 or 141.0(b)2	L / 18	80.2(b)4Bv			Со	mpliance Results	
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	Ш	Total Allowed (Watts)	2	Total Actual (Watts)	07 must be >= 0
703.34	+		+		+		+		OR		=	703.34	≥	567	COMPLIES
				Sh	ieldi	ng Compliance	(See	Table G for Det	ails)						COMPLI
				Co	ontro	ols Compliance	(See	Table H for Det	ails)						COMPLII

	nee (eee lable in let Details)	
D. EXCEPTIONAL CONDITIONS		
This table is auto-filled with uneditable comments because of selections	s made or data entered in tables throughout the form.	
E. ADDITIONAL REMARKS		
This table includes remarks made by the permit applicant to the Author	rity Having Jurisdiction.	

	Schema Version: rev 20220101	Report Generated: 2024-10-01 21:21:10
STATE OF CALIFORNIA		
Outdoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Bennett-Kew P-8 Academy	Report Page:	(Page 5 of 8)
	Date Prepared:	2024-10-02T00:21:08-04:00

Generated Date/Time:

Report Version: 2022.0.000

Documentation Software: Energy Code Ace

Compliance ID: 228491-1024-0008

kisting to remain (ie untouch ne permit application. utdoor lighting for nonreside nultifamily buildings and cont	ed) and luminaires which are remo ential buildings, parking garages ar trolled from the inside of a dwelling	ved and reinstalled (wiring only) do nd common service areas in multifo	stalled as part of the permit application. For altoon not need to be included in this table even if the simily buildings must be documented separately	ey are within the spo	aces covered by
01	02	03	04	C)5
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field In	spector
	(0,_,(0,			Pass	Fail
Exterior: "IE"	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts		
Exterior: "J & JE"	Astronomical Timer	Provided	NA: Facade, etc. <24 ft		
Exterior: "KE"	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts		
Exterior: "LE"	Astronomical Timer	Provided	NA: >=24 ft		
Exterior: "ME"	Astronomical Timer	Provided	NA: >=24 ft		

²Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.

³Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

	Generated Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 228491-1024-0008 Report Generated: 2024-10-01 21:21:10

Outdoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Bennett-Kew P-8 Academy	Report Page:	(Page 8 of 8)
Project Address:	Date Prepared:	2024-10-02T00:21:08-04:00

Documentation Author Name: Felipe Carvalho	Documentation Author Signature:			
Company: HED	Signature Date: 10/01/2024			
Address: 550 S Hope St # 2500	CEA/ HERS Certification Identification (if applicable):			
City/State/Zip: Los Angeles/CA/90071	Phone: (213) 802-0766			
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	ilding design or system design identified on this Certificate of Compliance (responsible designer)			
 The energy features and performance specifications, materials, components, and manufac of Title 24, Part 1 and Part 6 of the California Code of Regulations. 	tured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements			
 The building design features or system design features identified on this Certificate of Com plans and specifications submitted to the enforcement agency for approval with this buildi 	pliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, ing permit application.			
	available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable required to be included with the documentation the builder provides to the building owner at occupancy.			
Responsible Designer Name: Sean Bani	Responsible Designer Signature: Sun Ban			
Company: HED	Date Signed: 10/01/2024			
Address: 550 S Hope St # 2500	License: E16734			
City/State/Zip: Los Angeles/CA/90071	Phone: (213) 542-4618			

	Generated Date/Time:	Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: 228491-1024-0008 Report Generated: 2024-10-01 21:21:10

STATE (DF CALIFORNIA		
Out	door Lighting		CALIFORNIA ENERGY COMMISSION
CERTI	FICATE OF COMPLIANCE		NRCC-LTO-E
Projec	t Name: Bennett-Kew P-8 Academy	Report Page:	(Page 3 of 8)
		Date Prepared:	2024-10-02T00:21:08-04:00

F. OUTDOOR LIG	GHTING FIXTURE SCHEDULE								
the spaces covere installed and replo Outdoor lighting o lighting is included		the Table below. of the project sco	For altered lig ope are include	hting systems us d (ie, existing lui	ing the Existing	Power method ning or existing	per 141.0(b)2L (luminaires being	only new lumino g moved are not	aires being included).
Designed Wattage	e:								
01	02	03	04	05	06	07	08	09	10
Name or Item	Complete Luminaire Description	Watts per	How is Wattage	Total Number	Luminaire	Excluded per 140.7(a) /	Design Watts	Cutoff Req. > 6,200 initial lumen output	Field Inspector
Τασ	complete Laminaire Description	luminaire ^{1, 2}	I Wattage	Luminaires 2	Status ³	1 ±=0.7(a)/	Design Wates	iamen oatpat	

01			1	J								
me or Item	Complete Luminaire Description		Watts per	How is Wattage	lotal Number Lui		Luminaire Excluded per 140.7(a) /	lotal Nilmber I - Liminaire I	Design Watts	Cutoff Req. > 6,200 initial	Field Inspector	
Tag	complete Editindire De	.seription	luminaire ^{1, 2}	determined	Luminaires ²	Status ³	170.2(e)6A	Design wates	130.2(b) / 160.5(c)1 ⁴	Pass	Fail	
IE	Recessed Downlight	☐ Linear	10	Mfr. Spec	19	New		190	NA: < 6200 lumens			
J & JE	Recessed Downlight	Linear	19	Mfr. Spec	8	New		152	NA: < 6200 lumens			
KE	Flood Light	☐ Linear	19	Mfr. Spec	2	New		38	NA: < 6200 lumens			
LE	Pole Light	Linear	51	Mfr. Spec	1	New		51	Provided			
ME	Pole Light	Linear	68	Mfr. Spec	2	New		136	Provided			
						Tota	Design Watts:	567				

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved. EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

¹FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

² For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

³ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

⁴ Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

	Generated Date/Time:	Documentation Software: Energy Code
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: 228491-1024-00

STATE OF CALIFORNIA Outdoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Bennett-Kew P-8 Academy	Report Page:	(Page 6 of 8)
	Date Prepared:	2024-10-02T00:21:08-04:00

This table includes areas using allowance calcul	lations per 140.7 / 170.2(e). General			01		
Hardscape Allowance is per Table 140.7-A/Table				"Use it or lose i	t" Allowance (select	all that apply) (sele	ct all that apply
Allowances are per Table 140.7-B /Table 170.2-S sed to expand sections for user input. Luminain use it" allowances shall not qualify for another Dutdoor lighting attached to multifamily building welling unit are included in Table H. and are not butdoor lighting is included here.	res that qualify for one of to "Use it or lose it" allowand ngs and controlled from the ot included here. All other	the "Use it or ce. e inside of a multifamily	☑ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specifi Area Table M
alciliated General Hardscape Lighting Power A	llowance ner lahle 140 /-	A for Nonresider	ntial & Hotel/Motel				
O2	03	A for Nonresider 04	ntial & Hotel/Motel 05	06	07	08	09
, , ,	03	ī	05		07 ar Wattage Allowan		09 Total Genera
Calculated General Hardscape Lighting Power A 02 Area Description	03	04	05 ce (AWA)	Line	ar Wattage Allowan	ce (LWA)	Total Genera
02	03 Area V Illuminated Area	04 Vattage Allowand Allowed Densit	05 ce (AWA) ty Area Allowance	Line Perimeter Leng	ar Wattage Allowan	ce (LWA) Linear Allowance	Total Genera AWA + LWA
02 Area Description	03 Area V Illuminated Area (ft²)	04 Vattage Allowan Allowed Densit (W/ft²)	05 ce (AWA) ty Area Allowance (Watts)	Line Perimeter Leng (If) 1412	ar Wattage Allowan th Allowed Density (W/lf) 0.2	ce (LWA) Linear Allowance (Watts)	Total Genera AWA + LWA (Watts) 453.34

This section does not apply to this project.		
K. LIGHTING ALLOWANCE: SALES FRONTAGE		
This section does not apply to this project.		

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Total General Hardscape Allowance (Watts): 703.34



Inglewood Unified School District

IUSD Bennett-Kew P-8 Academy

11710 S Cherry Ave Inglewood, CA 90303

Δ Date Issued For
1 11/5/2024 DSA SUBMITTAL

DSA A# 03-124773 FILE # 19-48





2023-IU002-002

Exterior Lighting Title 24 Documents

E-583