

GENERAL ELECTRICAL NOTES

1. PROVIDE MINIMUM 36" WORK CLEARANCE IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 120/208V 3Ø 4W (PER CEC-110.26).

2. PROVIDE MINIMUM 42" WORK CLEARANCE IN FRONT OF PANELS, SERVICE OR EQUIPMENT RATED AT 480/277V 3Ø 4W (PER CEC-110.26).

3. PROVIDE MINIMUM 30" WIDE WORK SPACE FOR PANELS, SERVICE OR EQUIPMENT 15' FROM BUS BAR TO OBSTRUCTION (PER CEC-110.26).

4. SPECIFY THAT ONLY LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH INSTRUCTIONS INCLUDED IN THE LISTING AND LABELING (PER CEC-110.3(B)).

5. SWITCHES SHALL BE MOUNTED A MAXIMUM OF 48" TO THE TOP OF BOX. RECEPTACLES SHALL BE MOUNTED A MINIMUM OF 15" TO THE BOTTOM OF BOX PER CBC 2019 SECTION 11B-308.

6. HVAC CIRCUIT BREAKERS SHALL BE RATED HACR.

7. ALL SERVICE EQUIPMENT TO BE SUITABLE FOR AVAILABLE SHORT CIRCUIT CURRENT PER CEC ART 110.9.

8. PERMANENTLY DELINEATE ON THE FLOOR WORKING CLEARANCE IN FRONT OF ALL ELECTRICAL EQUIPMENT WITH THE WORDING "NO STORAGE IN THIS AREA"

9. PRIOR TO ORDERING THE SWITCHGEAR, THE ELECTRICAL CONTRACTOR SHALL COORDINATE A.I.C. RATINGS OF SWITCHBOARDS AND PANEL BOARDS WITH UTILITY COMPANY REQUIREMENTS. EVIDENCE OF SUCH COORDINATION SHALL BE AVAILABLE ON SITE FOR REVIEW BY CITY BUILDING INSPECTOR.
10. SWITCHBOARDS AND PANEL BOARDS THAT ARE LIKELY TO BE ENERGIZED WHILE BEING MAINTAINED OR SERVICED BY QUALIFIED PERSONNEL SHALL BE LABELED WARNING OF POSSIBLE ARC FLASH HAZARDS AND IDENTIFIED WITH THE APPROPRIATE ARC FLASH PROTECTION RATING PERSONAL PROTECTIVE EQUIPMENT (PPE) SIGNAGE (PER CEC ART. 110.16).

11. CONTRACTOR IS TO PROVIDE ENGRAVED NAMEPLATES ON EACH SERVICE PANEL, TRANSFORMER, DISCONNECT SWITCH MOTOR STARTER, ETC. (PER CEC-110.3).

12. CONTRACTOR WILL BE REQUIRED TO PROVIDE A LABEL PER CEC ARTICLE 408.4(A). PROVIDE TYPED PANEL BOARD DIRECTORIES. PANEL BOARDS SHALL ALSO BE MARKED COMPLIANT WITH CEC 408.4(B) FOR ORIGINATED SOURCE OF POWER.

13. NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN 6 FEET OF THE FLOOR OR TO THE STRUCTURAL CEILING ABOVE THE SPACE OF ELECTRICAL EQUIPMENT (PER CEC ART. 110.26).

14. EACH MULTIWIRED BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES, SUCH AS HANDLE-TIES AND MULTI-POLE BREAKERS (PER CEC- 210.4(B)).

15. THE DISCONNECTING MEANS FOR EACH SERVICE, FEEDER OR BRANCH CIRCUIT ORIGINATING ON A SWITCHBOARD OR PANELBOARD SHALL BE LEGIBLY AND DURABLY MARKED TO INDICATE ITS PURPOSE UNLESS SUCH PURPOSE IS CLEARLY EVIDENT (CFC-605.3.1).
16. ALL WORK SHALL MEET THE LATEST ADOPTED ADDITIONS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND ALL OTHER APPLICABLE REGULATIONS, WHICH INCLUDE:

CALIFORNIA BUILDING CODE
2019
CALIFORNIA ELECTRICAL CODE
2019
NON RESIDENTIAL CEC ENERGY STANDARDS
2019

17. PROVIDE THE MAIN SERVICE EQUIPMENT ROOM EGRESS DOOR, WITH THE REQUIRED DIRECTION OF THE DOOR SWING AND THE REQUIRED DOOR HARDWARE. ART.110.26(C)(3).

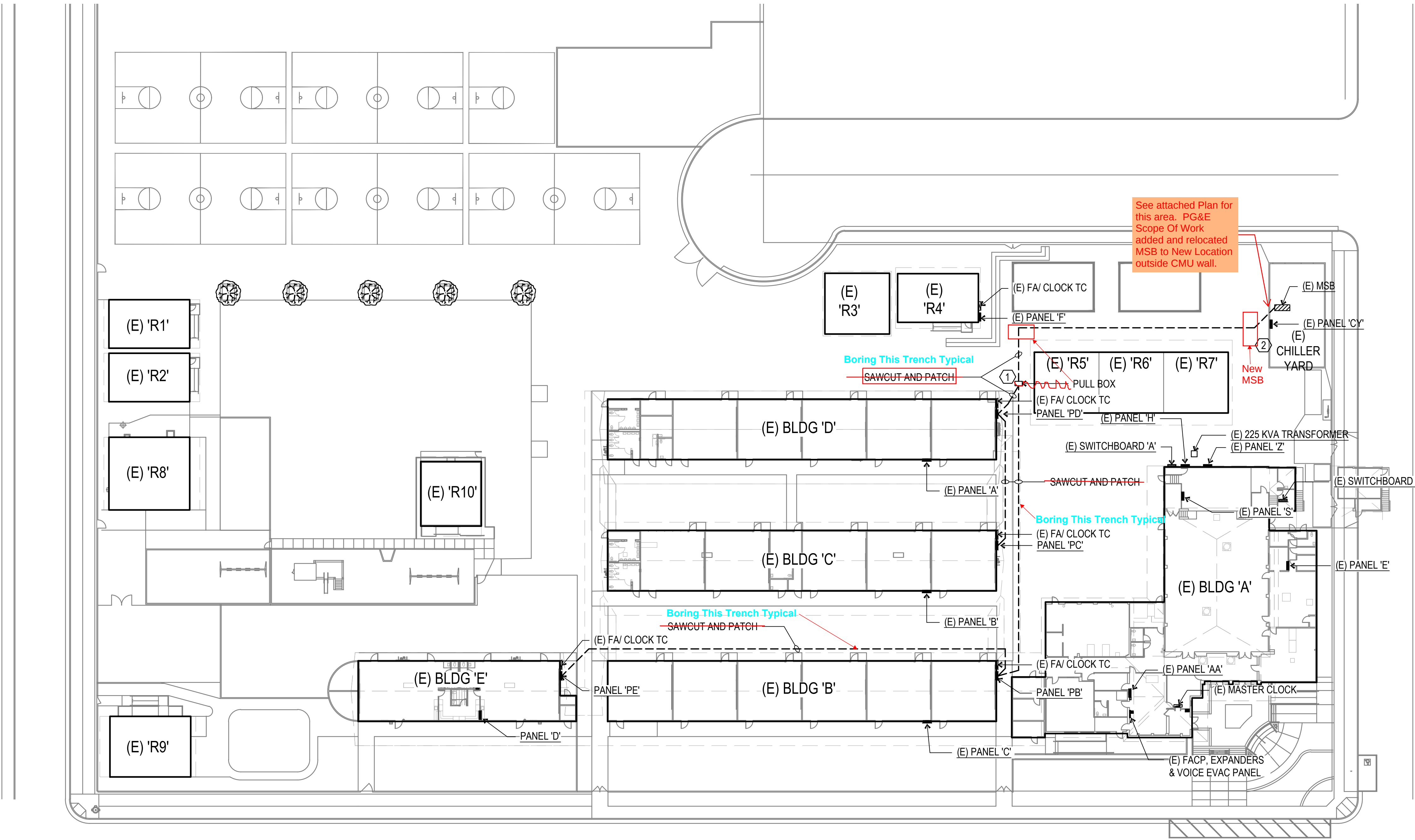
GENERAL COORDINATION NOTES

1. Prior to commencing construction the Contractor shall carefully examine the site and existing conditions, compare the Drawings with the existing electrical installations and thoroughly familiarize themselves with all existing conditions within the scope of this work. The Contractor shall inform the Electrical Engineer in writing when this process is complete and if any discrepancies are noticed.
2. Mechanical Coordination: Prior to commencing construction, the Contractor shall arrange a conference with the Mechanical/Plumbing Contractors and equipment suppliers to verify type, sizes, locations, requirements, controls and diagrams of all equipment furnished by them. In writing, he shall inform the Electrical Engineer that all phases of coordination of this equipment have been covered. If any unusual conditions or problems are noticed, they are to be enumerated at this time.

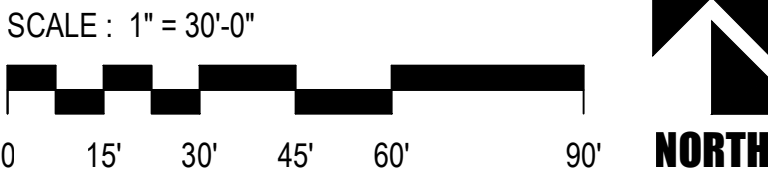
REFERENCE NOTES

1. PULL BOX OLD CASTLE #B1730, B1730-S1JH COVER AND B1730X12 EXTENSION.
2. REFER TO MECHANICAL PLAN FOR ALL DEMOLITION WORK IN CHILLER YARD

AS BUILTS



ELECTRICAL SITE PLAN



ELECTRICAL SYMBOL SCHEDULE

SYMBOL	NAME	DESCRIPTION
	FIXTURE TYPE "D" AND WATTAGE "30"	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	LED LIGHT FIXTURE	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	RECESSED LIGHT FIXTURE	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	LIGHT FIXTURE WITH EMERGENCY BATTERY BACKUP	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	ILLUMINATED EXIT SIGN	REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS
	OCCUPANCY MOTION SENSOR	ABL+LIGHT
	WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR @ +4' TO TOP OF BOX, U.O.N.	ABL+SENSOR SWITCH
	OCCUPANCY SENSOR, CEILING MOUNTED - NETWORK	ABL+LIGHT
	OCCUPANCY SENSOR SWITCHPACK	
	WALL SWITCH @45' AFF MAX. TO TOP OF BOX.	AC QUIET TYPE, 20A, 277V
	WALL SWITCH 3-WAY @45' AFF MAX. TO TOP OF BOX.	AC QUIET TYPE, 20A, 277V
	"SOLATUBE" CONTROL SWITCH @45' AFF MAX. TO TOP OF BOX.	PROVIDED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
	WALL MOTION DIMMER SWITCH	ABL+LIGHT
	WALL MOTION DIMMER SWITCH ON / OFF + RAISE / LOWER	ABL+LIGHT
	WALL MOTION DIMMER SWITCH ON / OFF + RAISE / LOWER WITH INTEGRAL OCCUPANCY SENSOR	ABL+LIGHT
	WALL MOTION DIMMER SWITCH 2 ZONE ON / OFF + RAISE / LOWER	ABL+LIGHT
	WALL MOTION DIMMER SWITCH 4 ZONE ON / OFF + RAISE / LOWER	ABL+LIGHT
	DUPLEX CONVENIENCE OUTLET MOUNTED @ +15' MIN. TO BOTTOM OF BOX, U.O.N.	20A, NEMA GROUNDED
	WEATHERPROOF CONVENIENCE OUTLET MOUNTED @ +15' MIN. TO BOTTOM OF BOX, U.O.N.	20A, NEMA GROUNDED
	QUADPLEX CONVENIENCE OUTLET MOUNTED @ +15' MIN. TO BOTTOM OF BOX, U.O.N.	20A, NEMA GROUNDED
	ELECTRICAL SWITCHBOARD	REFER TO POWER SINGLE LINE DIAGRAM
	ELECTRICAL PANEL	REFER TO PANEL SCHEDULE
	TERMINAL CABINET	
	EXHAUST FAN	REFER TO MECHANICAL PLANS & SPECIFICATIONS.
	120V RELAY WITH 277V COIL	SIZED TO HANDLE EXHAUST FAN LOAD
	MOTOR WITH FUSIBLE DISCONNECT SWITCH, W.P. AS REQ'D	REFER TO MECHANICAL PLANS & SPECIFICATIONS.
	JUNCTION BOX	4" SQUARE BOX & FLUSH PLATE MINIMUM
	COMMUNICATIONS / DATA OUTLET @ +15' AFF MIN. BOTTOM OF BOX, +48" MAX TOP OF BOX U.O.N.	4 1118" x 2 118" BOX W/ 1 112" 2 GANG EXTENSION RING, (2) 11C ATTUS TO ACCESSIBLE ATTIC SPACE, (1) DATA CABLE, (1) VOICE CABLE WITH JACKS MINIMUM
	INTERCOM OUTLET @ +15' AFF MIN. BOTTOM OF BOX, +48" MAX TOP OF BOX U.O.N.	
	TELEPHONE OUTLET @ +15' AFF MIN. BOTTOM OF BOX, +48" MAX TOP OF BOX U.O.N.	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
	PA SPEAKER, FLUSH CEILING MOUNTED U.O.N.	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
	EXTERIOR PA SPEAKER WALL MTD @ +9'-6" UON (WEATHERPROOF)	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
	CLOCK / PA SPEAKER COMBINATION @ +7'-6" UON	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
	TELEVISION / VIDEO OUTLET	REFER TO SCHOOL DISTRICT SPECIFICATIONS.
	PROGRAM BELL	
	SECURITY MICROPHONE MTD ABOVE DOOR U.O.N.	PROVIDED BY SCHOOL DISTRICT, INSTALLED BY E.C.
	SECURITY DOOR CONTACT	SEE SPECS
	SURFACE RACEWAY W/ OUTLETS & DATA JACKS	WIREMOLD 5400 SERIES SYSTEM. INSTALL DUPLEX / QUADPLEX RECEPTACLES AND DATA JACK AS INDICATED ON PLANS.
	POWER PACK 0-10V DIMMING	ABL+LIGHT
	POWER PACK INCANDESCENT DIMMING	ABL+LIGHT
	PLUG LOAD CONTROLLER	ABL+LIGHT
	PHOTO SENSOR - 3 ZONE (LOWER CASE LETTER INDICATES CONTROL GROUP)	ABL+LIGHT
	LOW VOLTAGE SENSOR WIRING, PLENUM RATED	REFER TO DEVICE LITERATURE FOR NUMBER OF CONDUCTORS.
	WIRING BELOW GRADE	3/4" CONDUIT MINIMUM.
	WIRING IN WALL OR CEILING	3/4" CONDUIT MINIMUM.
	FLEXIBLE CONDUIT	3/4" CONDUIT MINIMUM.
	CONDUIT STUB AND CAP	3/4" CONDUIT MINIMUM.
	HASH MARKS DENOTES QUANTITY OF CONDUCTORS	
	HOME RUN TO PANEL "A", CIRCUIT "15"	3/4" CONDUIT MINIMUM.
	EXISTING CONDUIT TO REMAIN	
	EXISTING ITEM TO REMAIN	
	UNLESS OTHERWISE NOTED	
	GROUND FAULT CIRCUIT INTERRUPTER	

MEP Component Anchorage Note:

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2019 CBC Sections: 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapter 13.26 and 30.

1. All permanent equipment and components.
2. Temporary or movable equipment that is permanently attached (e.g. hard-wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having flexible cable.
3. Temporary, movable equipment or mobile equipment which is heavier than 400 lbs or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.
- The following mechanical and electrical components shall be positively attached to the structure, but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both traverse and longitudinal directions.
- 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 the component.
- B. Components weighing less than 20 pounds or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.
- The anchorage for all mechanical, electrical and plumbing components shall be subject to approval of the design professional in general responsible charge or Structural Engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

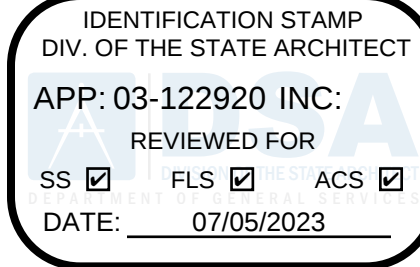
Piping, Ductwork, and Electrical Distribution System Bracing Note:

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8 and 2019 CBC Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

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

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

- MP MD PP E Option 1: Detailed on the approved drawings with project specific notes and details.
- MP MD PP E Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#) #OPM-0052-13

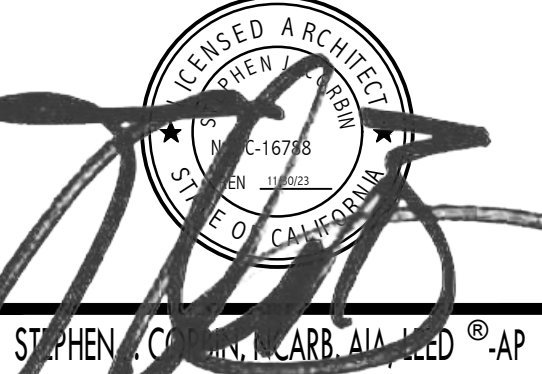


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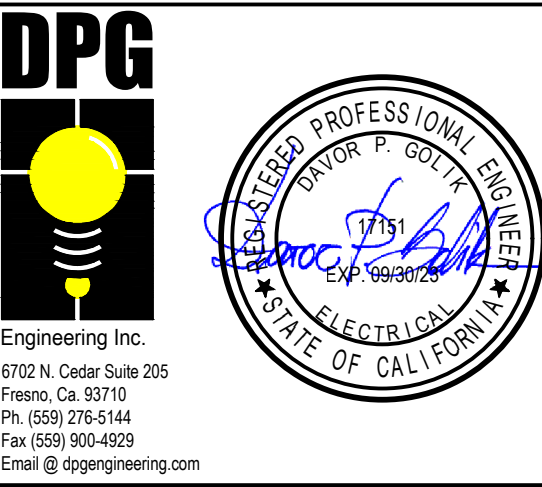
ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
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BAKERSFIELD, KERN COUNTY, CALIFORNIA



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CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.



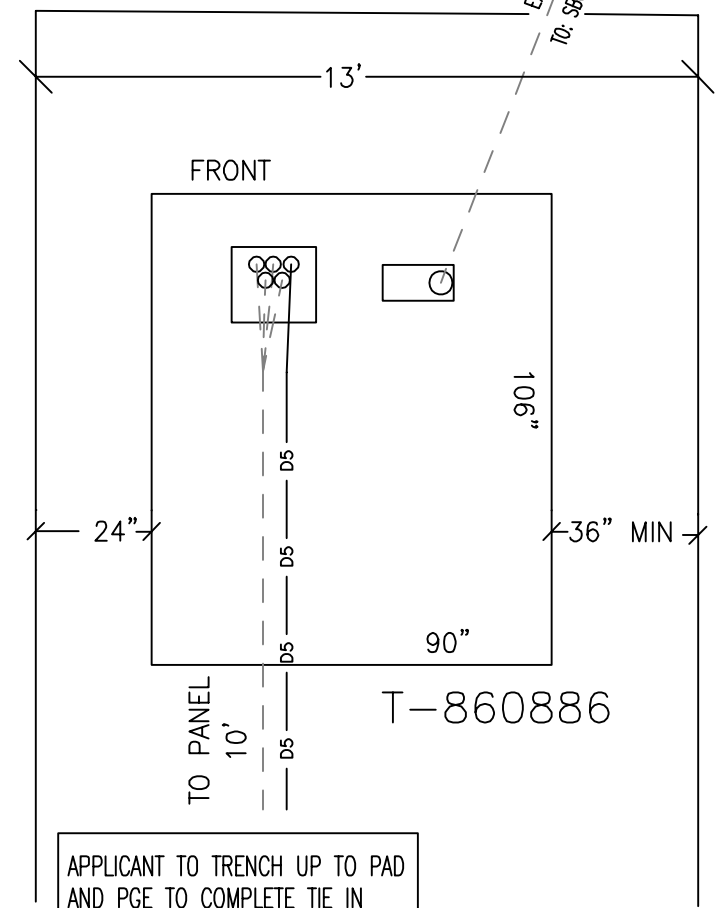
ELECT. SITE PLAN,
SYMBOL LEGEND,
DETAILS AND
NOTES

MARK	DATE	REVISIONS

JOB NO.
1317
DRAWN:
R.L.M.
CHECKED:
D.P.G.
DATE:
12/8/22

1.00
OF
SHEETS

EXISTING 4"
TO: SBCO 487163



APPLICANT TO CHANGE LOCK TO
ENCLOSURE TO PGE APPROVED LOCK

-SEE "GREEN BOOK" DWG.051122
PG.15 FOR BARRIER POST
ARRANGEMENTS

PGE TO REPLACE EXISTING 106" X 80" PAD WITH NEW 106" X 90" PAD. APPLICANT TO ADD 1 MORE CONDUIT RUN FOR NEW 1600 PANEL (5 RUNS OF 5" CONDUIT)

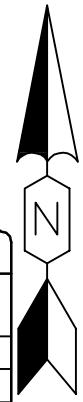


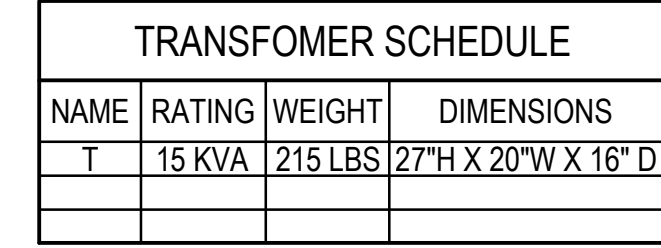
Diagram illustrating a street intersection and utility layout. The diagram includes the following elements:

- PLANNING REQUESTED FUSE UPGRADES** (Text in a box)
- BANK ST** (Street name)
- A ST** (Street name)
- 20265** (Address number)
- 40T** (Transformer symbol)
- 65T** (Transformer symbol)
- 3-715A 12KV** (Utility line label)
- SAP ID: 100243371** (System Asset Plan ID)
- 55'**, **195'**, **50'**, **108'**, **50'** (Distance markers)

T-7470 CSD=193 KVA @ 48% LF INSTALL 750 KVA 12/21kV, 3ø 277/480v IIE STYLE PDMT	LOAD ESD=705 KVA 5169392-67741	DATA INSP. DATE
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REQUIRED TASKS				
LOC#	ENV.	LAND	BETTERMENT	REF. JOB
1-2	NO	NO	NO	W0817665C'91

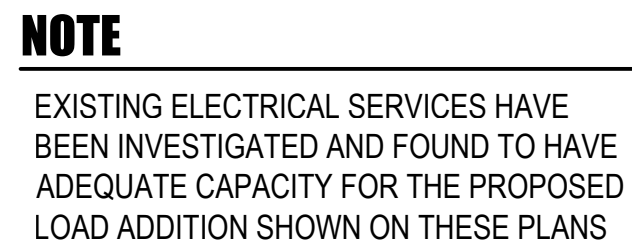
CONSTRUCTION SKETCH						
2324 VERDE ST BAKERSFIELD						
PRIMARY VOLTAGE: 12 kV VOLTAGE AREA: 1						
LATITUDE: 35.3569050 LONGITUDE: -119.02736						
SOURCE SIDE DEVICE:FUCO 20262						
SUB & CIRCUIT:WESTPARK 1108						
DSGN SAG:N/A			RAPTOR ZONE:YES			
LOADING AREA:LIGHT			ARRESTER DIST:2			
CORROSION AREA:NON			INSULATION DIST:B			
EXEMPT EQUIP.INST.: N/A			FIRE AREA: LRA-TIER 1			
Know what's below. Call before you dig.			NO ENVIRONMENTAL ISSUES		PG-1E	
GAS CONFLICT: NO			NEAR LOC:N/A		EST: NICK KIRBY 661-221-8145	
					ADE: SEAN CASTELLO 661-556-1742	
					SUPV: SUZANNE ADAMS 661-808-9330	
					REP:JOHNNY GARCIA 6613695341	
			PLNR: DAVID HART		559-385-4719	
			NOTIF: 128905566		JPA#: N/A	
			SCALE: 1"=40'		DATE:8/9/2024	
			PM: 35569814		SHEET:1 OF1 REV. 0	



FEEDER SCHEDULE										GROUNDING	
CONDUIT AND CONDUCTORS (THIN/THIN CU)										THIN/THIN COPPER	
										NYLON PULL LINE (NPL)	PER CONDUIT
AMPS	PVC, EMT OR GRS	10 SW (13)	30 SW (33)	30 2W (34)	30 SW (35)						
30	3/4"	3 #10	3 #10	4 #10	NA	1	#10				
40	3/4"	3 #8	4 #8	5 #8			#8				
50	1"	3 #6	3 #6	4 #6			#6				
60	1"	3 #6	3 #6	4 #6			#6				
70	1 1/4"	3 #4	3 #4	4 #4			#4				
80	1 1/4"	3 #3	3 #3	4 #3			#3				
90	1 1/4"	3 #2	3 #2	4 #2			#2				
100	1 1/2"	3 #1	3 #1	4 #1	5 #1		#1				
125	1 1/2"	3 #1	3 #1	4 #1	5 #1		#1				
150	2"	3 #0	3 #0	4 #0	5 #0		#0				
175	2"	3 #0	3 #0	4 #0	5 #0		#0				
200	2"	3 #0	3 #0	4 #0	5 #0		#0				
225	2 1/2"	3 #0	3 #0	4 #0	5 #0		#0				
250	3"	3 #0	3 #0	4 #0	5 #0		#0				
300	3 1/2"	3 #0	3 #0	4 #0	5 #0		#0				
400	4"	3 #0	3 #0	4 #0	5 #0		#0				
500	(2 1/2")	3 #0	3 #0	4 #0	5 #0		#0				
600	(2 1/2")	3 #0	3 #0	4 #0	5 #0		#0				
700	(2 1/2")	3 #0	3 #0	4 #0	5 #0		#0				
800	(2 1/2")	3 #0	3 #0	4 #0	5 #0		#0				
1000	(3 1/2")	3 #0	3 #0	4 #0	5 #0		#0				
1200	(4 1/2")	3 #0	3 #0	4 #0	5 #0		#0				
1400	(5 1/4")	3 #0	3 #0	4 #0	5 #0		#0				
2000	(5 1/4")	3 #0	3 #0	4 #0	5 #0		#0				

NOTE:
3Ø 5W FEEDERS ARE ØA, ØB, ØC AND TWO NEUTRAL CONDUCTORS FOR NON
LINEAR LOAD APPLICATIONS.

NOT TO SCALE



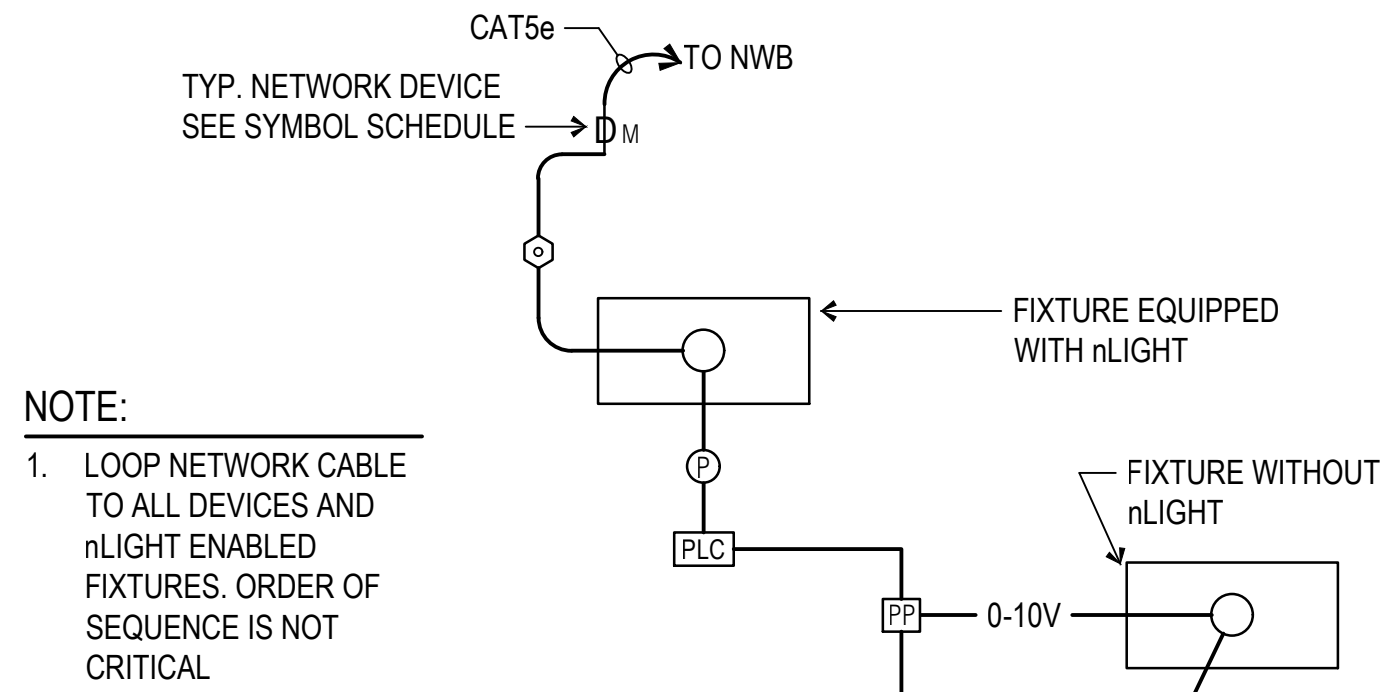
NOT TO SCALE

LIGHTING DEMO NOTE

REMOVE ALL EXISTING LIGHT FIXTURES, OCCUPANCY SENSORS, SWITCH PACKS AND DIMMING CONTROL MODULES (IF APPLICABLE) REMOVE ANY CONDUIT AND CONDUCTORS NOT TO BE RE-USED.

CEILING NOTES

1. REMOVE AND RE-INSTALL CEILING MOUNT WIRELESS ACCESS POINTS INTO NEW CEILING.
2. REMOVE AND RE-INSTALL CEILING MOUNT PA AND AV SPEAKERS INTO NEW CEILING.



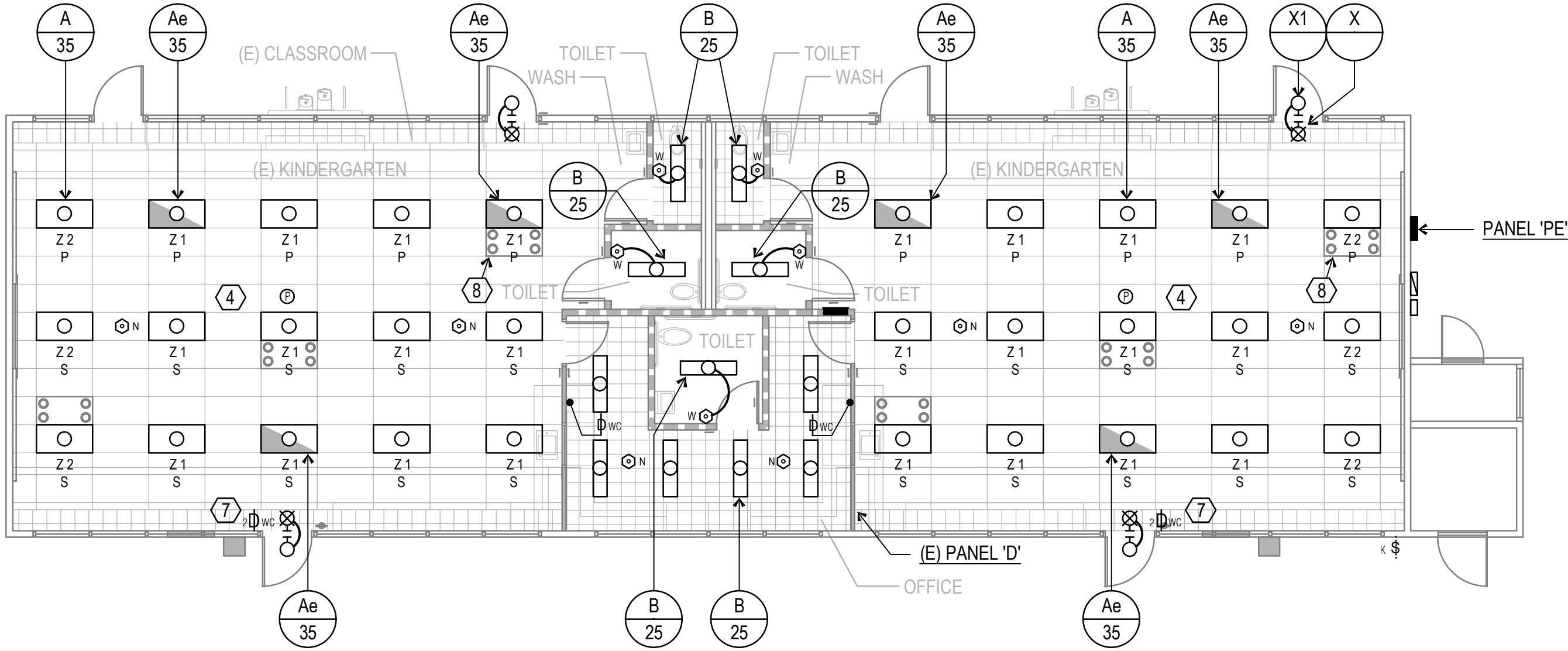
REFERENCE NOTES

1. REMOVE TWO/THREE SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE DIMMING WALL CONTROLLER.
2. REMOVE SWITCH AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE MOTION DIMMING WALL CONTROLLER.
3. REMOVE SWITCH AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE DIMMING WALL CONTROLLER.
4. CONNECT TO EXISTING LIGHTING CIRCUIT.
5. CONNECT TO EXISTING CORRIDOR LIGHTING.
6. REMOVE TWO EXISTING SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE 2 ZONE DIMMING WALL CONTROLLER.
7. REMOVE THREE EXISTING SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE 2 ZONE DIMMING WALL CONTROLLER.
8. TYPICAL, EXISTING ELECTRONIC FILTER IN NEW LOCATION. RECONNECT TO EXISTING CIRCUIT.

TYPICAL ZONE WIRING DIAGRAM

NOT TO SCALE

1
E2.10

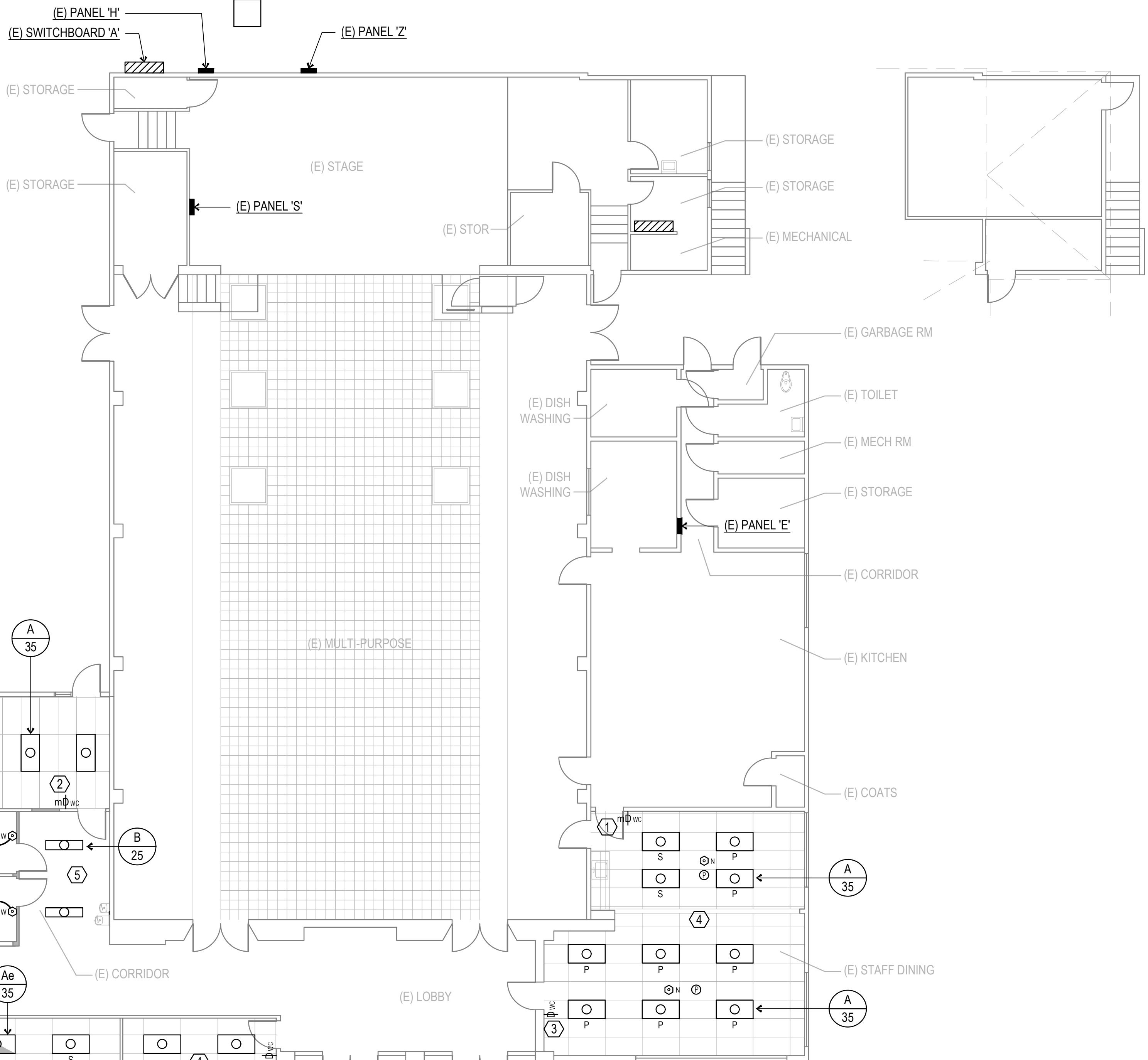


LIGHTING FLOOR PLAN
BUILDING 'E'

SCALE : 1/8" = 1'-0"

0 4' 8' 12' 16' 24'

NORTH



LIGHTING FLOOR PLAN
BUILDING 'A'

SCALE : 1/8" = 1'-0"

0 4' 8' 12' 16' 24'

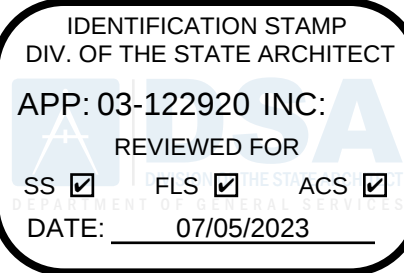
NORTH

EMERGENCY LIGHTING
POINT BY POINT
BUILDING 'E'

SCALE : 1/8" = 1'-0"

0 4' 8' 12' 16' 24'

NORTH



PTN: 63321-389 FILE: 15-6

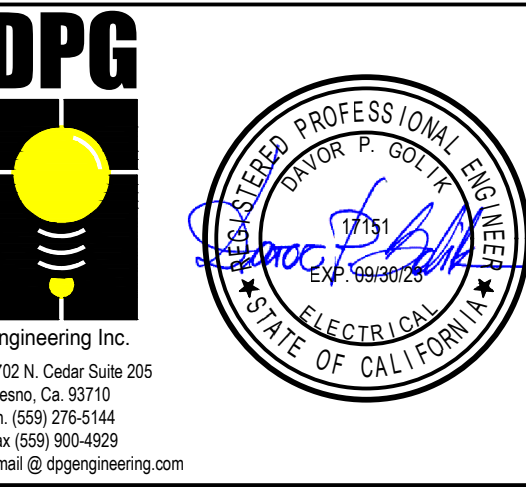
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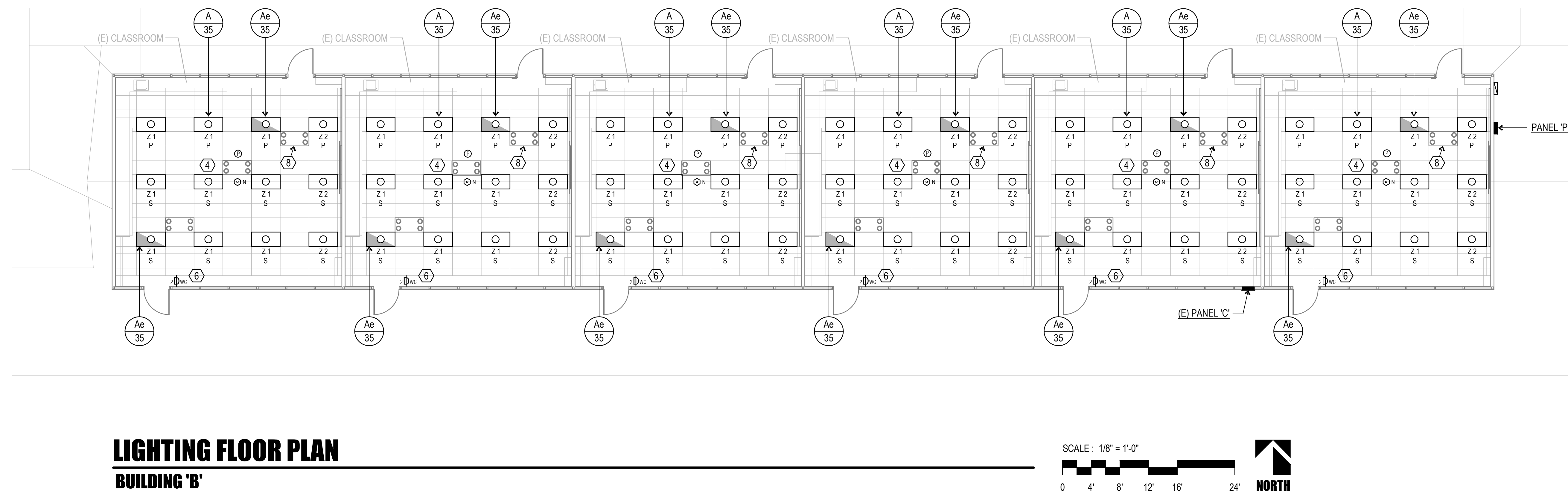
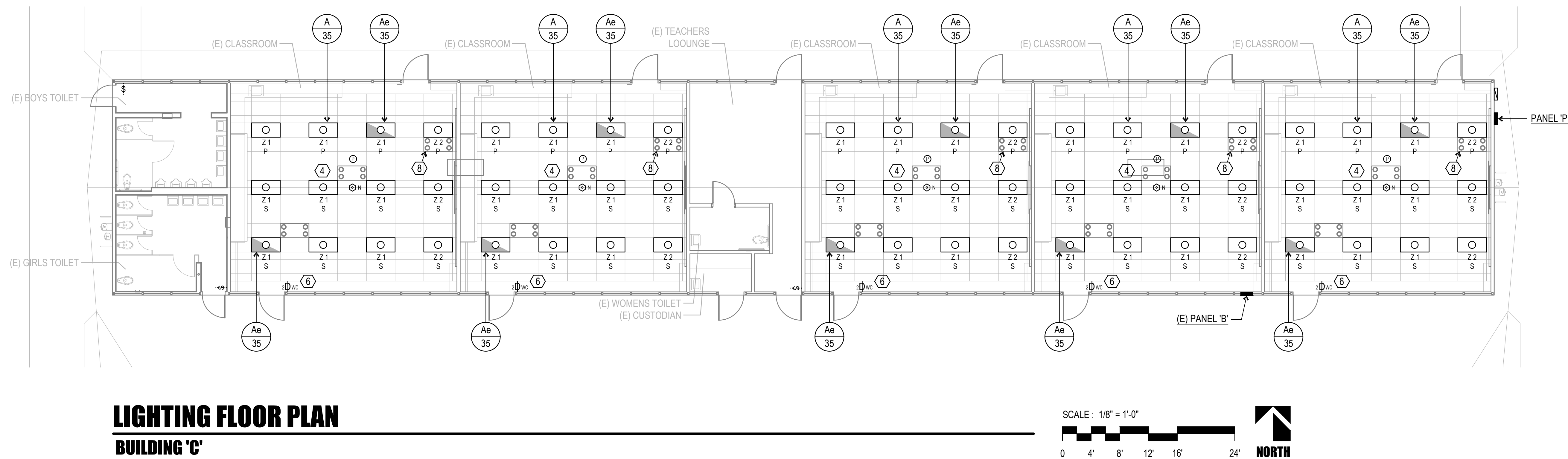
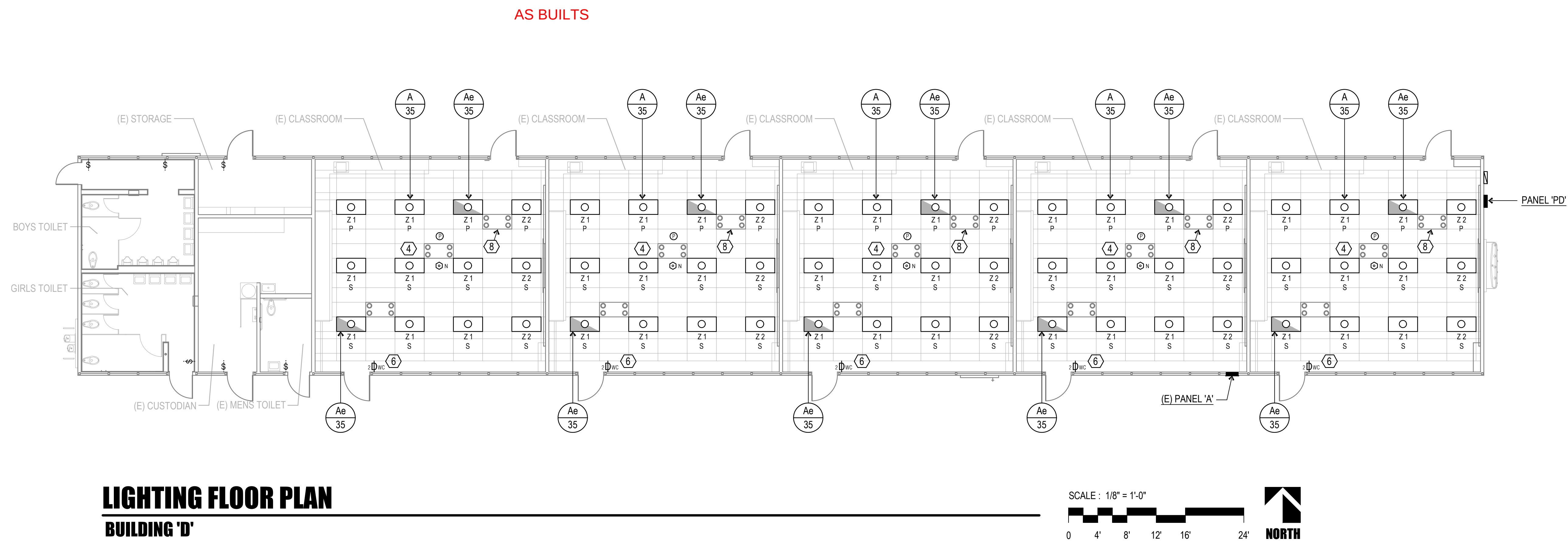


BLDGS A & E
LIGHTING
FLOOR PLANS,
DETAILS AND
NOTES

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.
1317
DRAWN BY
R.L.M.
CHECKED BY
D.P.G.
DATE
12/8/22

2.10
OF SHEETS



- REFERENCE NOTES**
- 1 REMOVE TWO/THREE SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE DIMMING WALL CONTROLLER.
 - 2 REMOVE SWITCH AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE MOTION DIMMING WALL CONTROLLER.
 - 3 REMOVE SWITCH AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE DIMMING WALL CONTROLLER.
 - 4 CONNECT TO EXISTING LIGHTING CIRCUIT.
 - 5 CONNECT TO EXISTING CORRIDOR LIGHTING.
 - 6 REMOVE TWO EXISTING SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE 2 ZONE DIMMING WALL CONTROLLER.
 - 7 REMOVE THREE EXISTING SWITCHES AND CONDUCTORS. LOWER EXISTING BOX DOWN TO +45". CUT AND PATCH AS REQUIRED. PROVIDE 2 ZONE DIMMING WALL CONTROLLER.
 - 8 TYPICAL, EXISTING ELECTRONIC FILTER IN NEW LOCATION. RECONNECT TO EXISTING CIRCUIT.

LIGHTING DEMO NOTE

REMOVE ALL EXISTING LIGHT FIXTURES, OCCUPANCY SENSORS, SWITCH PACKS AND DIMMING CONTROL MODULES (IF APPLICABLE) REMOVE ANY CONDUIT AND CONDUCTORS NOT TO BE RE-USED.

- CEILING NOTES**
1. REMOVE AND RE-INSTALL CEILING MOUNT WIRELESS ACCESS POINTS INTO NEW CEILING.
 2. REMOVE AND RE-INSTALL CEILING MOUNT PA AND AV SPEAKERS INTO NEW CEILING.

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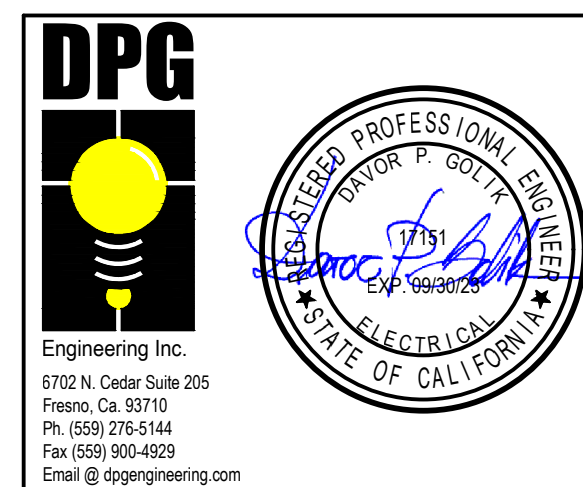
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MODERNIZATION
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FOR
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BAKERSFIELD, KERN COUNTY, CALIFORNIA



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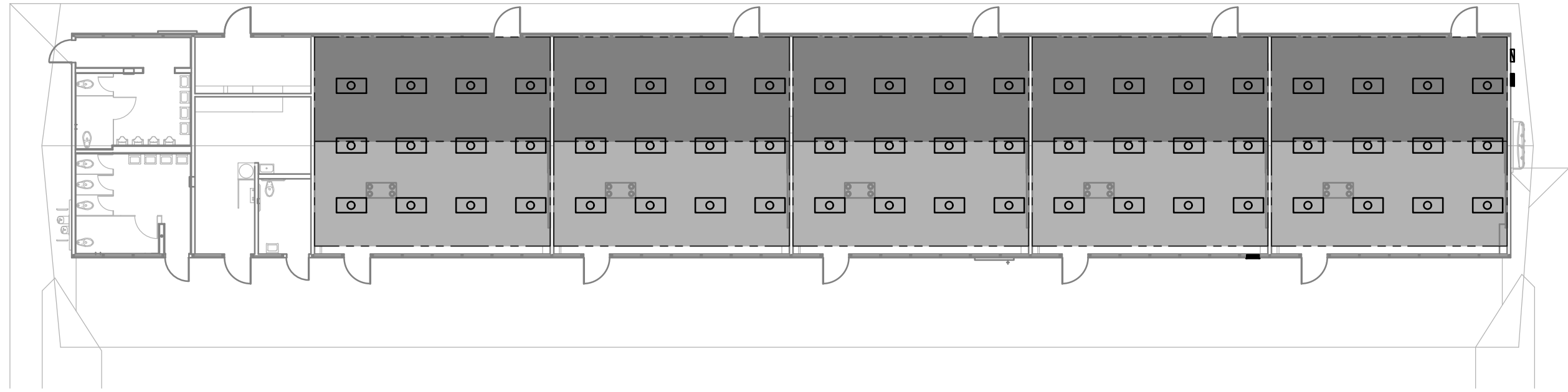
BLDGS B,C & D
LIGHTING
FLOOR PLANS
AND NOTES

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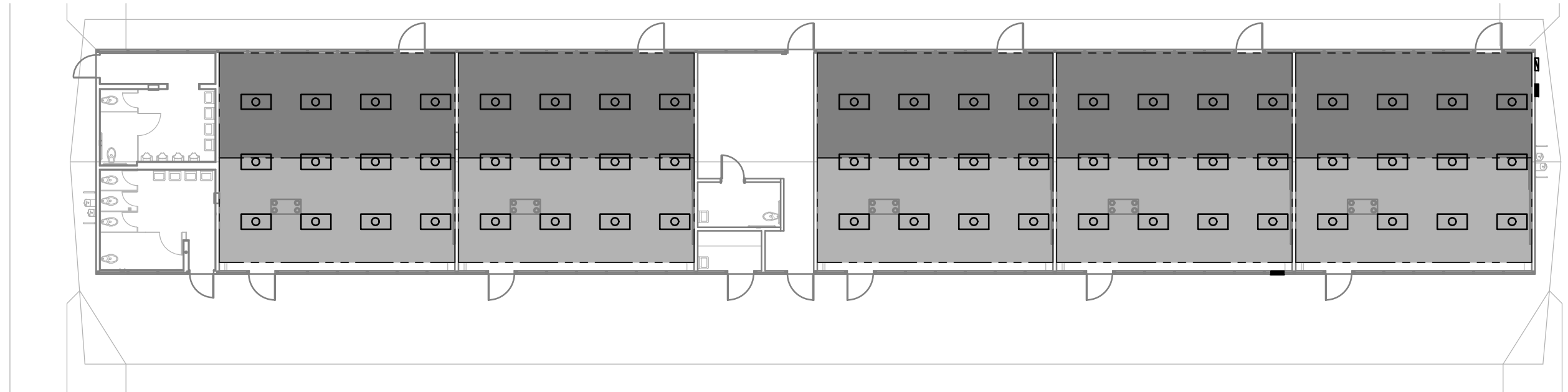
AS BUILTS



LIGHTING FLOOR PLAN

BUILDING 'D'

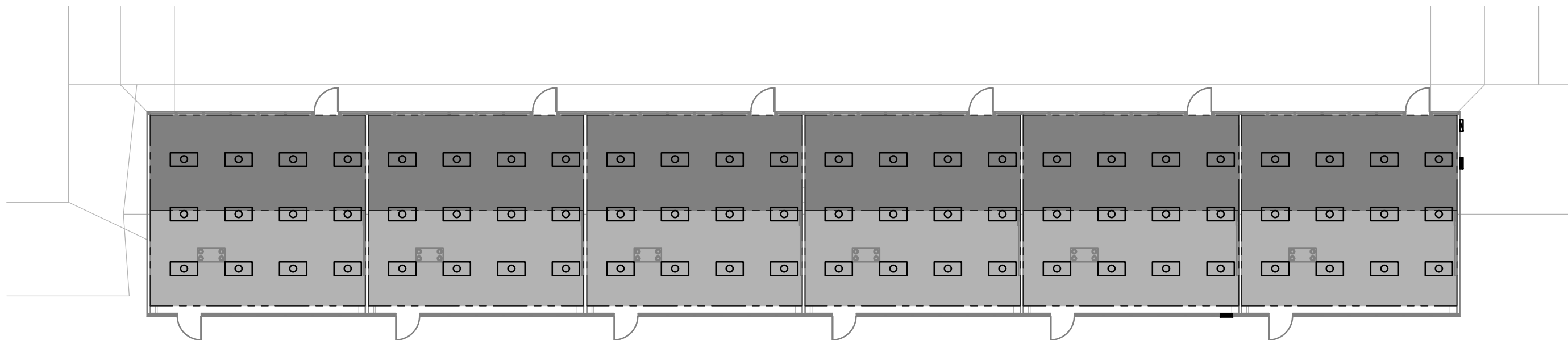
SCALE : 1/16" = 1'-0"



LIGHTING FLOOR PLAN

BUILDING 'C'

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



LIGHTING FLOOR PLAN

BUILDING 'B'

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



GENERAL TITLE 24 LIGHTING NOTES:

REFER TO CALIFORNIA ENERGY CODE FOR ALL REQUIREMENTS.

REFER TO LIGHTING CONTROL WIRING DIAGRAM AND DAYLIT FLOOR PLAN AND COMPLY WITH THE FOLLOWING:

- LUMINARIES IN THE SKYLIT ZONE SHALL BE CONTROLLED SEPARATELY FROM THOSE IN THE PRIMARY SIDELIT DAYLIT ZONES.
- LUMINARIES THAT FALL IN BOTH, A SKYLIT AND PRIMARY SIDELIT DAYLIT ZONE, SHALL BE CONTROLLED AS PART OF THE SKYLIT DAYLIT ZONE.
- LUMINARIES IN THE SECONDARY DAYLIT ZONE SHALL BE CONTROLLED INDEPENDENTLY FROM ALL OTHER LUMINARIES INCLUDING THOSE IN THE SKYLIT AND PRIMARY SIDELIT ZONES. LUMINARIES THAT FALL IN BOTH PRIMARY AND SECONDARY SIDELIT DAYLIT ZONES SHALL BE CONTROLLED AS PART OF THE PRIMARY SIDELIT DAYLIT ZONE.
- LUMINARIES THAT FALL IN ALL THREE ZONES SHALL BE CONTROLLED AS PART OF THE SKYLIT DAYLIT ZONE.
- PROVIDE SHOP DRAWING OF LIGHTING CONTROL SYSTEM.
- NETWORK CABLING NOT SHOWN FOR CLARITY. REFER TO CONTROL DIAGRAM.
- CONTROL EQUIPMENT IS INDICATED DIAGRAMMATICALLY. LOCATE IN ACCESSIBLE ATTIC SPACES.

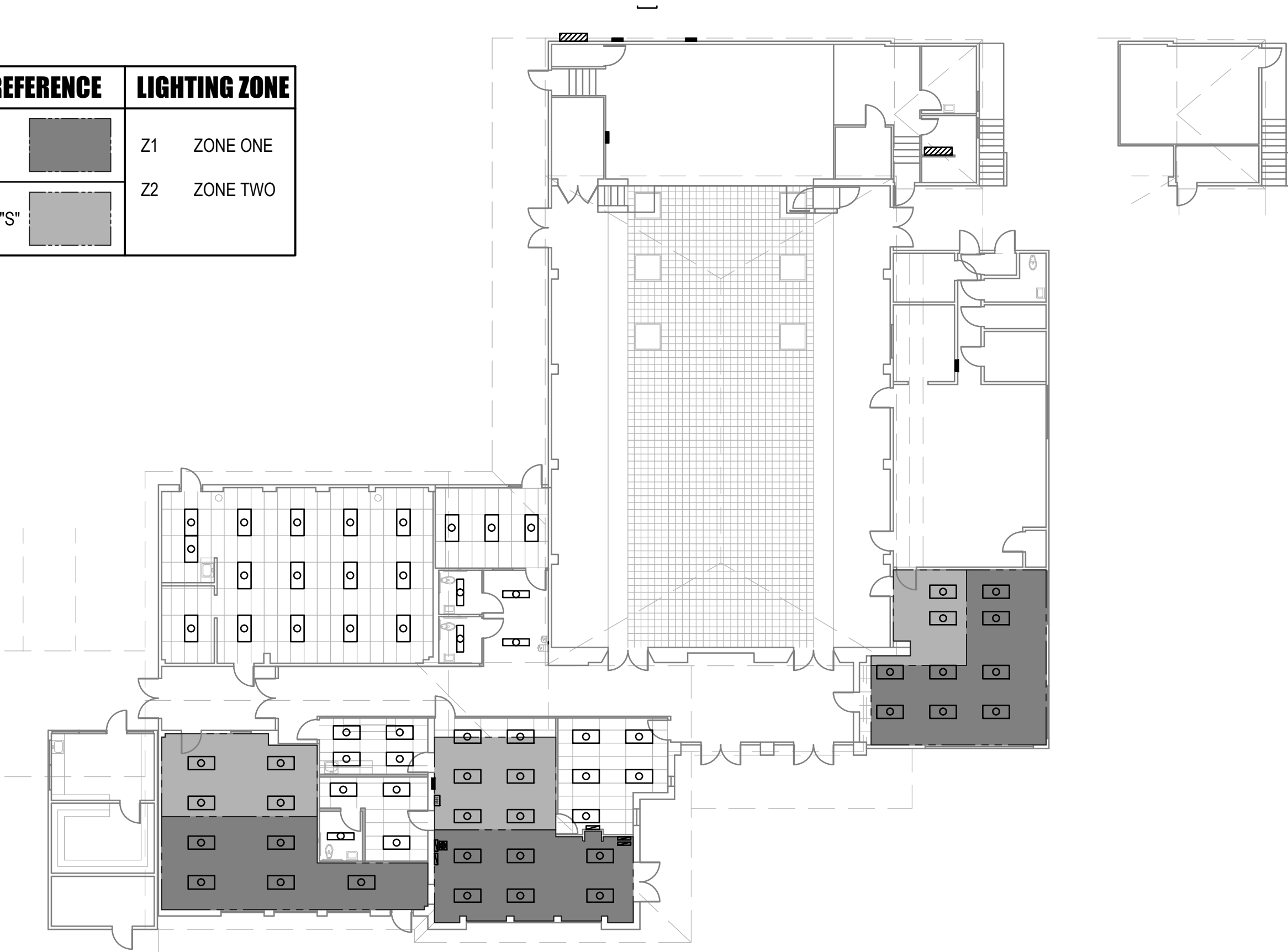
DAYLIT ZONE AREA REFERENCE	LIGHTING ZONE
PRIMARY SIDELIT ZONE "P"	Z1 ZONE ONE
SECONDARY SIDELIT ZONE "S"	Z2 ZONE TWO



LIGHTING FLOOR PLAN

BUILDING 'E'

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



LIGHTING FLOOR PLAN

BUILDING 'A'

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



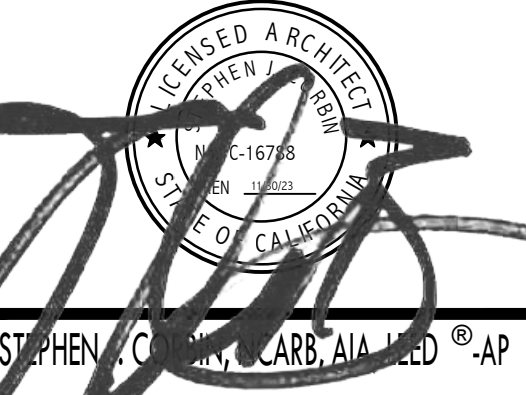
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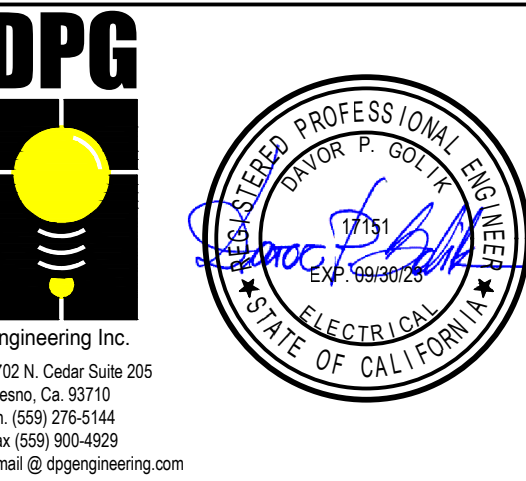
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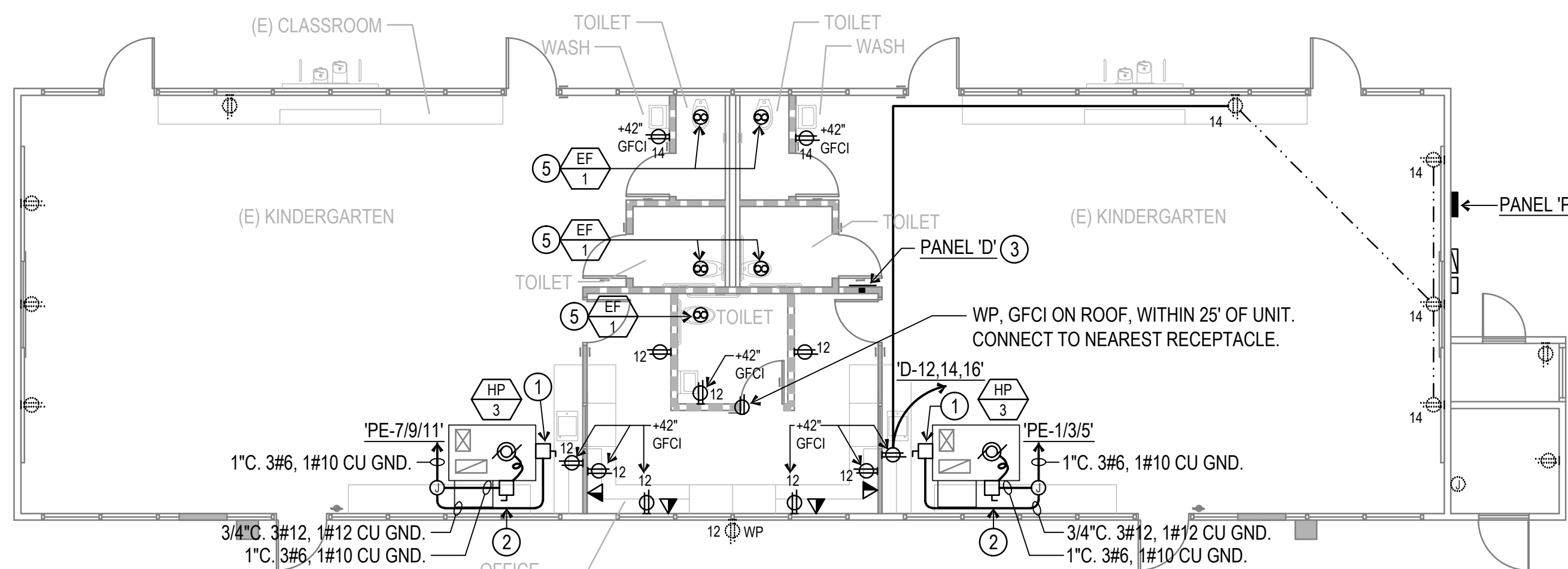


BLDGS AB,C,D,E
DAYLIT LIGHTING
FLOOR PLANS

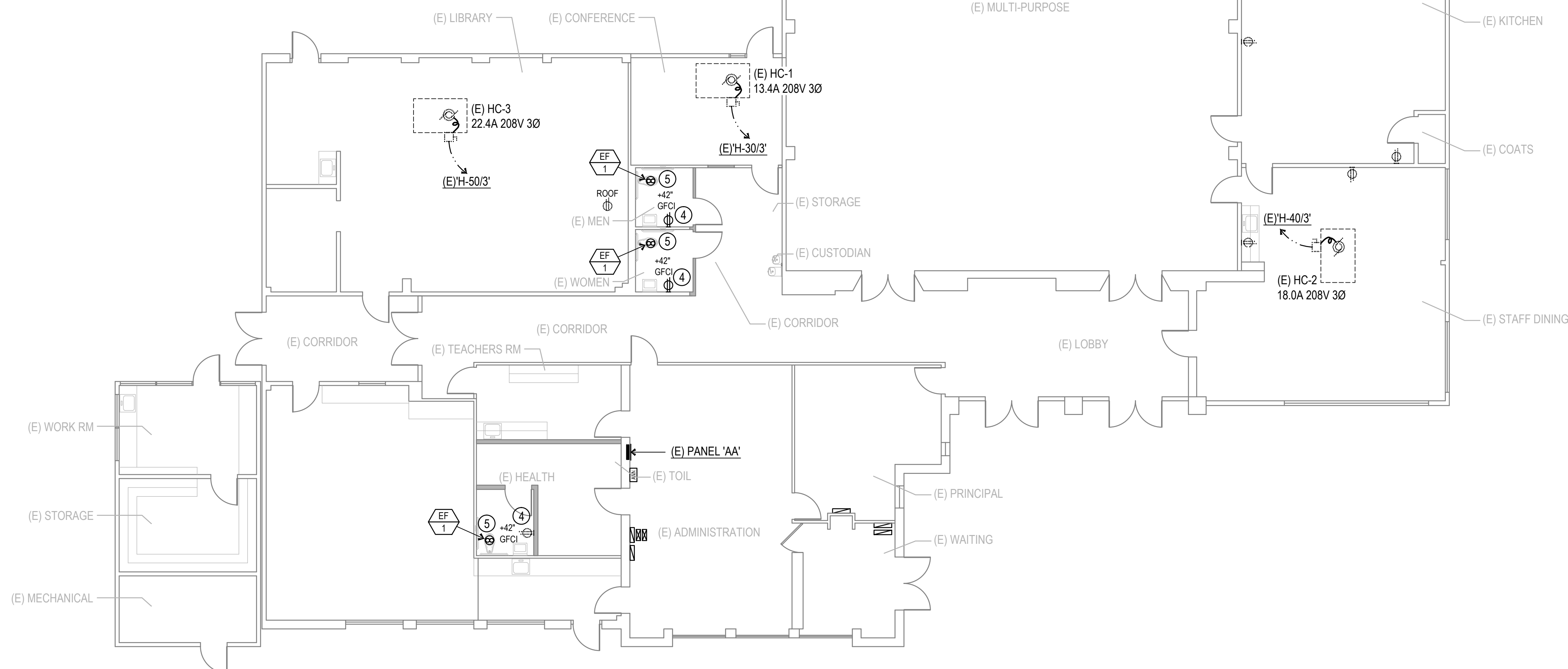
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BUILDING 'E'



BUILDING 'E'



BUILDING 'A'




0 4' 8' 12' 16' 24'

NORTH



1 EXISTING PANEL TO BE RELOCATED AND REPLACED.
INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS TO NEW LOCATION. SAWCUT AND PATCH FLOOR, EXTEND BRANCH CIRCUIT TO NEAREST WALL AND REROUTE TO PANEL AND/ OR PROVIDE J-BOX IN CEILING TO INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS TO NEW LOCATION.

- 2 DISCONNECT AND REMOVE EXISTING ELECTRICAL DEVICES. REFER TO DEMO NOTES.
- 3 DISCONNECT POWER TO UNIT VENTILATOR. PROVIDE BLANK COVER AND LABEL CIRCUIT BREAKER AS SPARE.

- 3 DISCONNECT POWER TO UNIT VENTILATOR. PROVIDE BLANK COVER AND LABEL CIRCUIT BREAKER AS SPARE.

- ① POWERED EXHAUST FUSED DISCONNECT.
- ② HP FUSED DISCONNECT.
- ③ PROVIDE TRIM KIT FOR 6" PANEL IN 4" WALL
- ④ CONNECT TO NEAREST RECEPTACLE CIRCUIT.
- ⑤ CONNECT FAN TO EXISTING LIGHTING IN RESTROOM.

- ① POWERED EXHAUST FUSED DISCONNECT.
- ② HP FUSED DISCONNECT.
- ③ PROVIDE TRIM KIT FOR 6" PANEL IN 4" WALL
- ④ CONNECT TO NEAREST RECEPTACLE CIRCUIT.
- ⑤ CONNECT FAN TO EXISTING LIGHTING IN RESTROOM.

1. REMOVE AND/OR REROUTE AND RECONNECT ANY EXISTING CIRCUITS INTERRUPTED BY DEMOLITION WORK. ALL EXISTING EQUIPMENT THAT IS REMOVED SHALL BE RETURNED TO OWNER.
2. REMOVE AND/OR REROUTE AND RECONNECT ANY EXISTING ELECTRICAL WORK WHICH INTERFERES WITH NEW CONSTRUCTION AS REQUIRED.
3. ALL CONDUITS SHALL BE CONCEALED. WHERE SPECIFICALLY PERMITTED ON JOB, CONDUIT MAY BE RUN EXPOSED AND SHALL BE INSTALLED IN A MANNER TO THE SATISFACTION OF THE ARCHITECT.
4. EXISTING ELECTRICAL OUTLET BOXES AND RACEWAYS, WHERE LOCATED TO BE OF VALUE FOR NEW CONSTRUCTION AND WHERE JUDGED TO BE IN GOOD CONDITION BY THE ARCHITECT, MAY BE REFURBISHED AND REUSED.
5. INSTALL NEW CONDUCTORS WHENEVER EXISTING OUTLET BOXES ON RACEWAYS ARE USED. DO NOT USE EXISTING CONDUCTORS. MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER UNLESS OTHERWISE NOTED.
6. REMOVE CONDUCTORS FROM ANY ABANDONED RACEWAY, BACK TO NEAREST TERMINATION POINT.
7. COORDINATE REMOVAL OF EXISTING LIGHT FIXTURES, OUTLETS, PHONES, ETC., WITH ARCHITECTURAL PLAN.
8. REMOVE EXISTING OUTLET DEVICES AND PLATES REMAINING AND PROVIDE ALL NEW IN EXISTING BOXES AS REQUIRED.
9. COORDINATE WITH OWNER ALL DISRUPTION OF SCHOOL CLOCK, PROGRAM, FIRE ALARM, INTERCOM SYSTEMS AND POWER SERVICE.
10. ALL DEVICES, ETC. IN WALLS TO BE DEMOLISHED SHALL BE DISCONNECTED AND REMOVED, WHETHER INDICATED OR NOT. FIELD VERIFY ALL CONDITIONS PRIOR TO BID.
11. CONTRACTOR SHALL PATCH TO MATCH ALL EXISTING SURFACES TO REMAIN WHICH MAY BE DAMAGED DURING ELECTRICAL DEMOLITION.
12. FLUSH OUT ALL EXISTING DEVICES TO NEW WALL FINISH. REMOVE AND REINSTALL ALL (E)SURFACE RACEWAYS. REFER TO ARCHITECTURAL DRAWINGS, FIELD VERIFY ALL CONDITIONS.
13. REFER TO MECHANICAL PLANS AND DISCONNECT ALL MECHANICAL AND PLUMBING EQUIPMENT TO BE REMOVED. LABEL CIRCUIT BREAKER AS SPARE.

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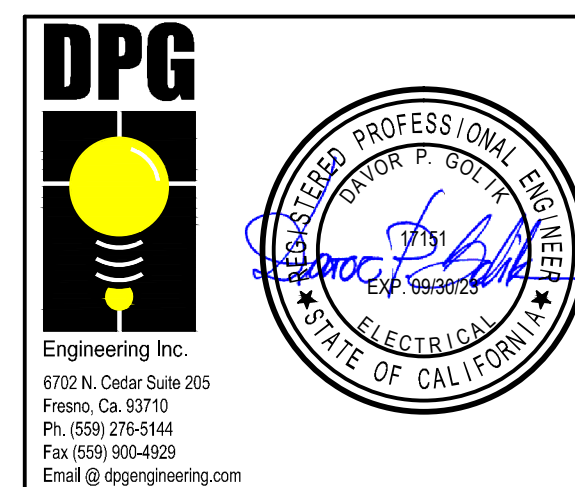
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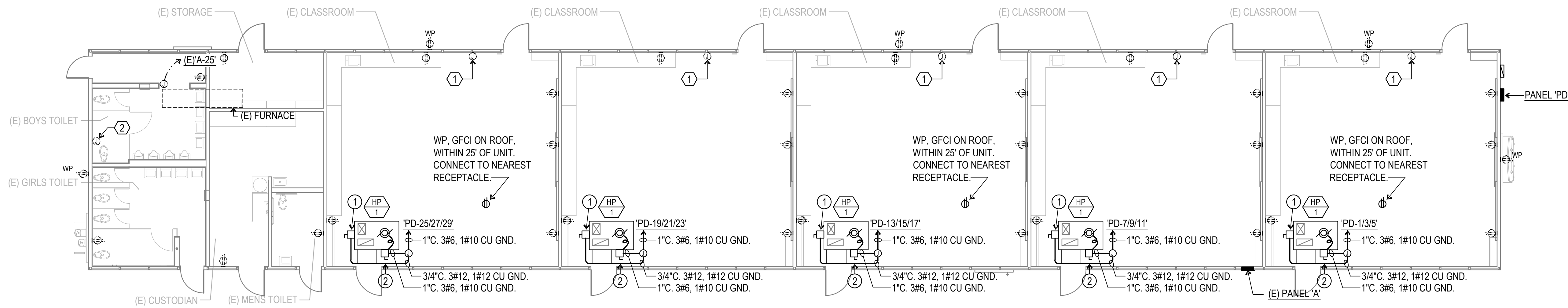
BLDGS A & E
POWER & DEMO
FLOOR PLANS

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3		

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AS BUILTS



POWER FLOOR PLAN

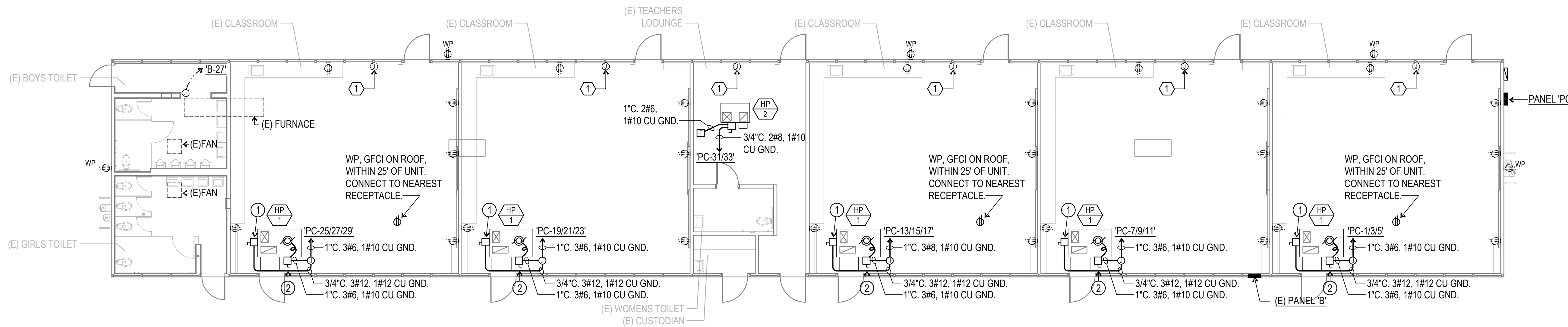
BUILDING 'D'

SCALE: 1/8" = 1'-0"



DEMOLITION REFERENCE NOTES

- 1 DISCONNECT POWER TO UNIT VENTILATOR. PROVIDE BLANK COVER AND LABEL CIRCUIT BREAKER AS SPARE.
- 2 DISCONNECT EXISTING HAND DRYER. REMOVE CONDUCTORS BACK TO PANEL. LABEL CIRCUIT BREAKER AS SPARE.



POWER FLOOR PLAN

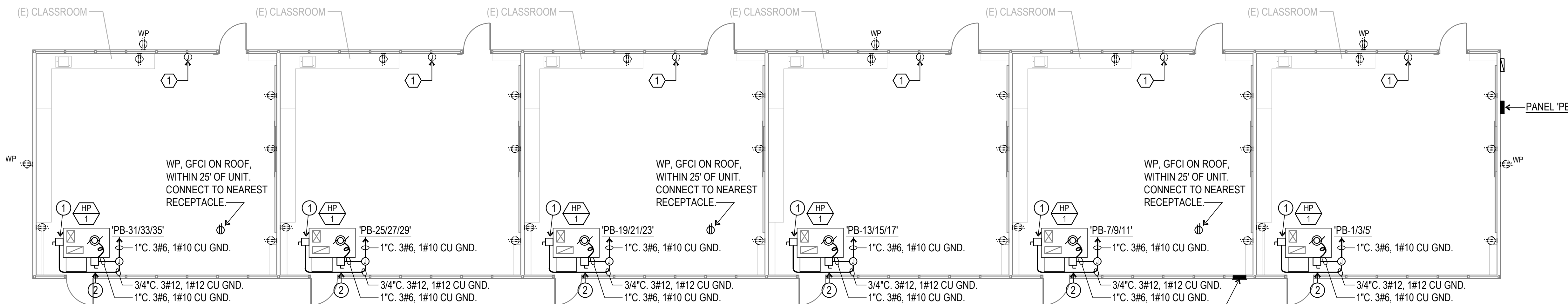
BUILDING 'C'

SCALE: 1/8" = 1'-0"



POWER REFERENCE NOTES

- 1 POWERED EXHAUST FUSED DISCONNECT.
- 2 HP FUSED DISCONNECT.



POWER FLOOR PLAN

BUILDING 'B'

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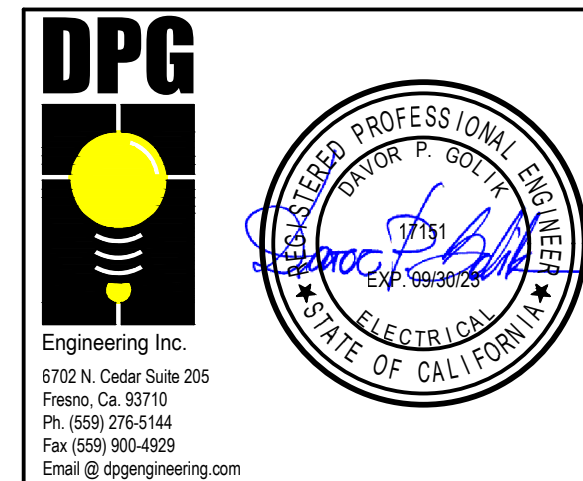
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BLDGS B,C & D
POWER
FLOOR PLANS

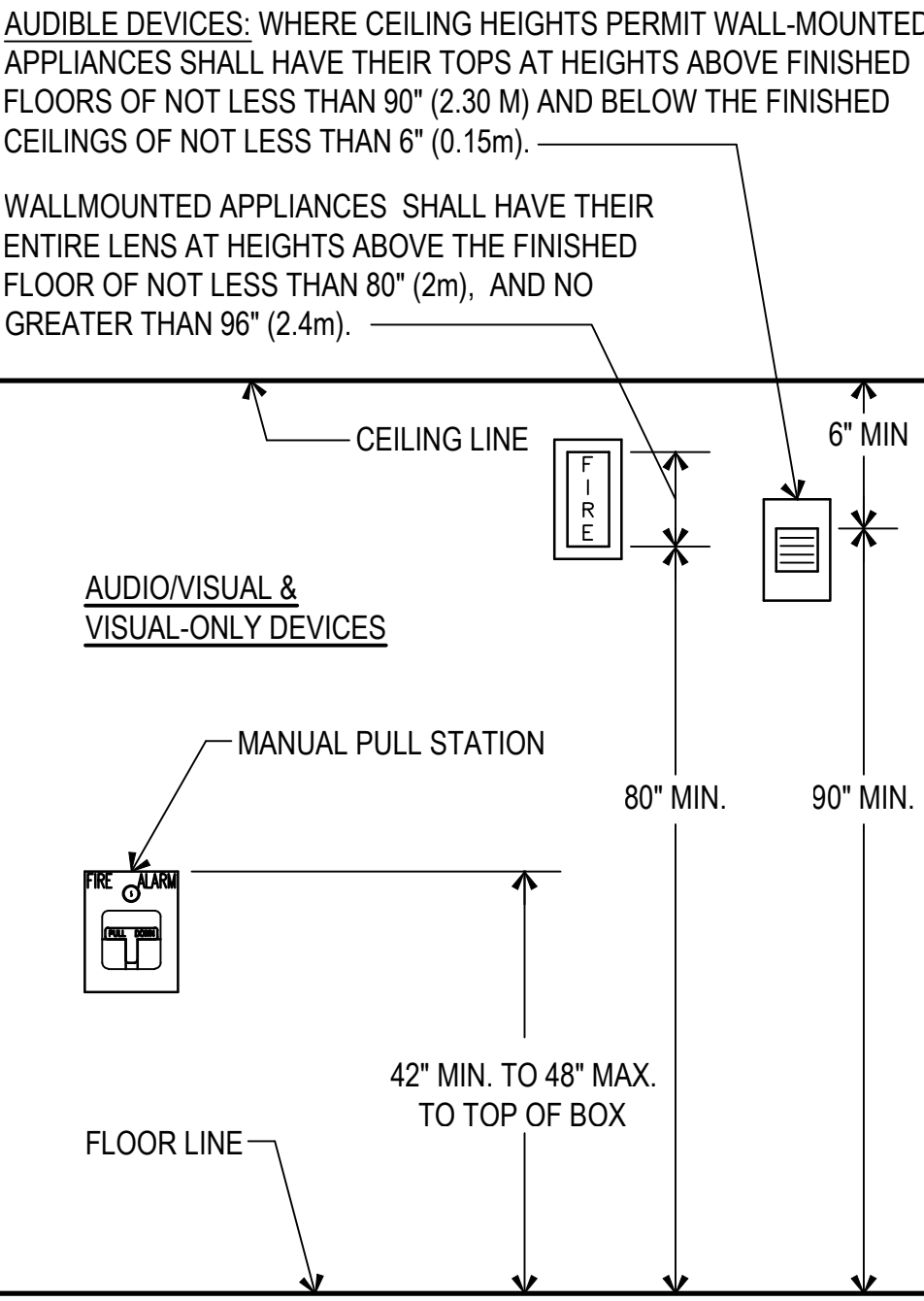
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FIRE DETECTION SYSTEM NOTES:

- ALL WIRING IS SHOWN DIAGRAMMATICALLY. CONTRACTOR MAY VARY SEQUENCE OR CIRCUITRY; HOWEVER, ALL CIRCUITS SHALL BE CONTINUOUS AND SUPERVISED FROM DEVICE TO DEVICE OR FATC TO DEVICE OR FACP TO FATC OR FATC TO FATC. NO PARALLEL BRANCHING SHALL BE ALLOWED. ANY CONNECTION OF ANY BREAK IN ANY CONDUCTOR SHALL BE BY TERMINAL CONNECTION AT A DEVICE OR AT A FATC ONLY.
- ALL CONNECTIONS SHALL BE PROPERLY LABELED BY CONDUCTOR AND SHALL HAVE STAKE ON LUG CONNECTORS. PANDUIT TAG (TIE WRAP) SEPARATE.
- FIRE ALARM TERMINAL CABINETS SHALL HAVE SUFFICIENT SPACE, TERMINAL BOARDS AND SCREW TERMINAL CONNECTORS TO ALLOW CONNECTION OF ALL CONDUCTORS SHOWN. CONTRACTOR SHALL BE REQUIRED TO SUBMIT WITH HIS OTHER SHOP DRAWINGS, DETAILED DRAWINGS OF HIS PROPOSED CONNECTIONS AT EACH FIRE ALARM TERMINAL CABINET PRIOR TO COMMENCING ANY WORK.
- FIRE ALARM PANEL, REMOTES AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS WITHOUT SPECIAL MOUNTING DETAILS. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS AT +48" ABOVE FINISHED FLOOR.
- ALL FIRE ALARM WIRING SHALL BE FPLO FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE #12 & #14 AWG, STRANDED (19 STRANDS OR LESS) COPPER THHN OR THWN OR #16/2 SLC LOOP UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
- ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7. UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
- INSTALLATION OF F.A. EQUIPMENT SHALL BE BY AN AUTHORIZED ENGINEERED SYSTEM DISTRIBUTOR FOR THE EQUIPMENT SPECIFIED BY THE MANUFACTURER FOR SALES, SERVICE, INSTALLATION AND MAINTENANCE. PROVIDE CERTIFICATIONS WITH EQUIPMENT SUBMITTALS. SUBMITTALS BY FIRMS NOT FULFILLING THIS REQUIREMENT WILL BE AUTOMATICALLY REJECTED. INSTALLER SHALL BE NICET LEVEL 3 CERTIFIED. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT / ENGINEER OF THE PROJECT.
- A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION
- WRITTEN CERTIFICATION USING NFPA 72 INSPECTION AND TESTING FORM BY THE FIRE ALARM EQUIPMENT DISTRIBUTOR (OR VENDOR OR MANUFACTURER) SHALL BE SUBMITTED TO DSA (WITH COPIES TO THE ELECTRICAL ENGINEER AND THE ARCHITECT OF RECORD) AND THE INSTALLATION INCLUDES TESTING AND OPERATION THAT CONFORMS IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN C.B.C. SECTION 907.8. THE CONTRACTOR SHALL COMPLETE A FIRE ALARM SYSTEM RECORD AND COMPLETION FORM AND SUBMIT TO DSA.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY AND INSPECTOR OF RECORD. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND OR TESTING.
- THE CERTIFIED INSTALLER WILL BE REQUIRED TO PROVIDE ALL FACTORY WARRANTIES AT THE CLOSE UP OF THE PROJECT.
- SMOKE DETECTORS SHALL BE MOUNTED MINIMUM 36" FROM SUPPLY AND RETURN AIR VENTS PER MANUFACTURER'S RECOMMENDATIONS AND NFPA72, 17.7.4.1.(2016 EDITION WITH SFM AMENDMENTS).
- THE CONTRACTOR SHALL ARRANGE A MEETING WITH F.A. INSTALLER PRIOR TO ROUGH-IN TO COORDINATE THE INSTALLATION.
- AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY CBC 907.6.5. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUIS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.
- ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 DBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5DBA ABOVE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH EVER IS GREATER. MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS PER CFC 907.5.2.1.1. THE FIRE ALARM EVACUATION SIGNAL SHALL SOUND A SYNCHRONIZED THREE PULSE TEMPORAL PATTERN AS DESCRIBED IN NFPA 72 (CBC 907.5.2.1.3 AND NFPA 18.4.2.1.
- THE CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR PULSE TEMPORAL PATTERN PER NFPA 720 5.8.6.5.1
- MICROPHONE ACCESSIBILITY SHALL COMPLY WITH CBC 11B-305 AND 11B-308
- THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED. VISUAL NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED.
- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH STATE FIRE MARSHAL'S REGULATIONS AS ADOPTED AND AMENDED IN THE 2019 EDITION, CBC CHAPTER 35 (CBC SEC. 907.7, 907.8) & NFPA 72, 2016 EDITION.
- PROVIDE ACCESS PANEL FOR ALL ATTIC HEAT DETECTORS LOCATED IN NON-ACCESSIBLE CRAWL OR ATTIC SPACES. SEE ALSO ARCHITECTURAL REFLECTED CEILING PLANS
- ALL BATTERIES SHALL BE STAMPED WITH DATE PUT INTO SERVICE.
- MANUAL PULL STATIONS SHALL NOT REQUIRE TIGHT GRIPPING, OR TWISTING OF THE WRIST TO OPERATE.
- SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH 2019 CBC, 2019 CFC, 2016 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE AND NFPA 720, STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT (2015)
- THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL" CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
- ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAYOR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
- PROVIDE FIRE WATCH TO COMPLY WITH DSA IRF-2 IF DURING CONSTRUCTION THE FIRE ALARM SYSTEM IS NOT OPERATIONAL AND STUDENTS ARE PRESENT IN CAMPUS.



F.A. DEVICE ELEVATION



FIRE ALARM RECORD DOCUMENTS CABINET
NFPA 72, 7.7.2

- EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR APPROVED LOCATION.
- THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "SYSTEM RECORD DOCUMENTS".
- ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
- CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
- WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNITS, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.

FIRE ALARM DEVICE SEQUENCE OF OPERATION MATRIX

SYSTEM INPUT	AREA SMOKE OR HEAT DETECTORS	CARBON MONOXIDE DETECTOR	SPRINKLER RISER FLOW SWITCH	SPRINKLER RISER TAMPER SWITCH	POWER FAILURE GROUND FAULT	TROUBLE	ELECTRICAL SUPERVISION	MANUAL PULL STATION
SYSTEM OUTPUT								
ANNUNCIATE AT ADMINISTRATION OFFICE	•		•	•	•	•	•	•
ANNUNCIATE AT ADMINISTRATION OFFICE (CARBON MONOXIDE DETECTION)		•						
ACTIVATE AUDIO/VISUAL THRU-OUT CAMPUS	•		•					•
CENTRAL STATION MONITORING	•		•	•	•			•
CLOSE FIRE SMOKE DAMPER	•							
SHUT DOWN HVAC UNIT	•				•			
ACTIVATE VOICE EVACUATION PANEL	•							
ACTIVATE AUDIO ALARM CLASSROOM ONLY		•						

AS BUILTS

SYSTEM DOCUMENTS AS APPLICABLE:

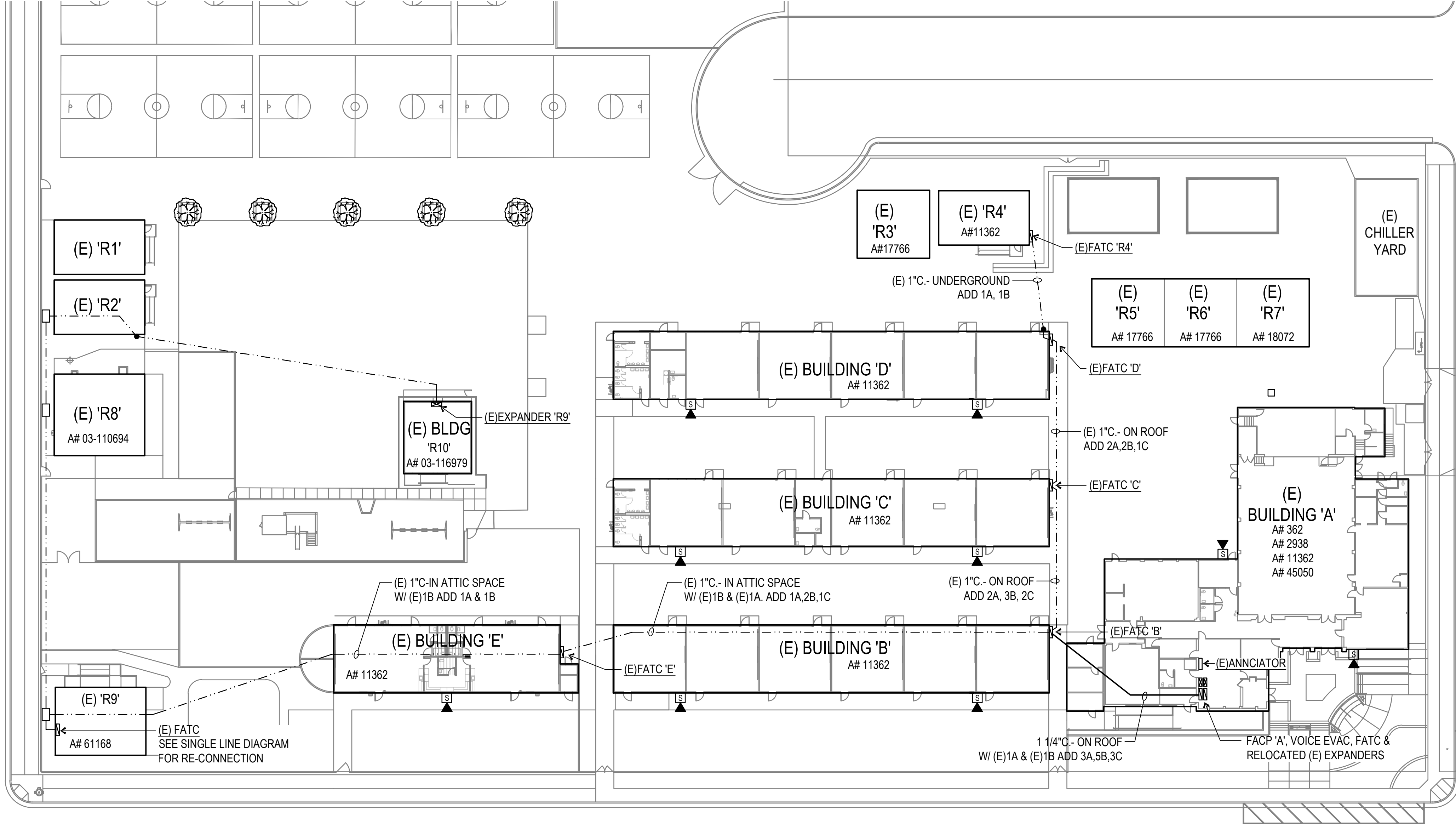
- RECORD DRAWINGS / AS-BUILTS.
- EQUIPMENT CUT SHEETS & CA SFM LISTINGS.
- ALTERNATIVE MEANS AND METHODS.
- PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7).
- SYSTEM RECORD OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2).
- EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8).
- EVALUATION DOCUMENTATION (NFPA 72, 7.3.9).
- RISK ANALYSIS DOCUMENTATION (NFPA 72, 7.3.6).
- SOFTWARE & FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2).

FIRE ALARM ACCEPTANCE TEST

- TESTING OF ALL DEVICES AND APPLIANCES, INCLUDING THE BATTERY -(IES), SHALL BE PERFORMED. ALL MANUFACTURER OPERATING RANGES SHALL BE MET.
- INSPECTION TESTING AND MAINTENANCE OF SYSTEMS, THEIR INITIATING DEVICES AND NOTIFICATION APPLIANCES SHALL COMPLY WITH CHAPTER 14 OF NFPA 72 AND DOCUMENTATION WITH NFPA 72, CHAPTER 7.
- TESTING OF THE SUPERVISING STATION SIGNALS, AS WELL AS RELAY TO THE APPROPRIATE RESPONDING AGENCY, SHALL BE INCLUDED IN THE ACCEPTANCE TESTING. THE PROJECT INSPECTOR SHALL WITNESS THE ACCEPTANCE INSPECTION AND SHALL SIGN AS THE AHJ REPRESENTATIVE ON THE "SYSTEM RECORD OF COMPLETION" AT SECTION 12.31 [NFPA 72, FIGURE 7.8.2(a)], AND THE "SYSTEM RECORD OF INSPECTION AND TESTING" AT SECTION 10.1 [NFPA 72, FIGURE 7.8.2 (g)].
- ALL SUPPLEMENTARY RECORDS SHALL BE ATTACHED AS APPLICABLE. THE PROJECT INSPECTOR SHALL VERIFY THAT THE FIRE ALARM SYSTEM IS IN SERVICE PRIOR TO COMPLETION OF THE "SYSTEM RECORD OF COMPLETION" FORM.
- ALL ORIGINAL DOCUMENTATION SHALL BE RETAINED IN THE REQUIRED DOCUMENTATION CABINET. (NFPA 72, 7.7.2).

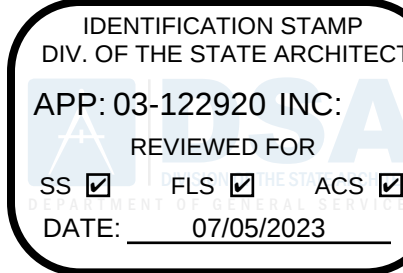
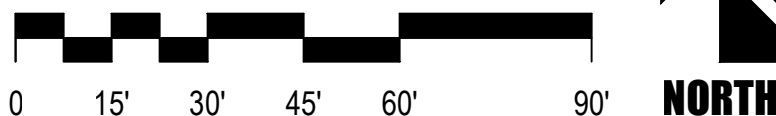
FIRE ALARM SYMBOL SCHEDULE

SYMBOL	NAME	DESCRIPTION	CSFM #
(E) ———	EXISTING ITEM		
U.O.N. ———	UNLESS OTHERWISE NOTED	34°C MIN U.O.N.	
— — — — —	WIRING UNDERGROUND OR IN WALL		
- - - - -	EXISTING CONDUIT TO REMAIN		
FACP	FIRE ALARM CONTROL PANEL WITH MEDIA GATEWAY CARD & DIALER	HOCHIKI # FIRENET L@TTITUDE HOCHIKI # 5788	7165-0410.0506
EXP	FIRE ALARM EXPANDER PANEL	HOCHIKI # FN-642-ULADA	7315-0410.0166
—	FIRE ALARM TC	24"X18"VX4"D	
ANN	(E) FIRE ALARM ANNUNCIATOR	HOCHIKI #FN-LCD-S	7120-0410.0165
EVAC	FIRE ALARM VOICE EVACUATION AMPLIFIER	HOCHIKI #EVAX-100	6911-0410.0176
A	ATTIC HEAT DETECTOR WITH BASE PROVIDE ACCESS PANEL IN HARD LID AREAS	HOCHIKI #ATJ-EA BASE #YBN-NSA-4	7270-0410.0203
☺	PHOTOELECTRIC SMOKE DETECTOR WITH BASE	HOCHIKI #ALN-V BASE #HSB-NSA-6	7272-0410.0204
SC	MULTI CRITERIA (CO) DETECTOR WITH BASE	HOCHIKI #ACD-V SOUNDER BASE #ASBL	7275-0410.0503
CO	ADDRESSABLE SUPERVISED OUTPUT MODULE	HOCHIKI #DCP-R2ML-I	7300-0410.0150
xW	F.A. SPEAKER / STROBE (CEILING MTD.) xW = WATTAGE C = CEILING MOUNTED, (MC)cd= MULTI-CANDELA SETTINGS	HOCHIKI #HSSPKCLPW (SEE PLANS FOR SETTINGS)	7320-0410.0194
xW	F.A. SPEAKER / STROBE (WALL MTD.) xW = WATTAGE W = WALL MOUNTED, (MC)cd= MULTI-CANDELA SETTINGS	HOCHIKI #HSSPK24WLR (SEE PLANS FOR SETTINGS)	7320-0410.0195
xW	F.A. VISUAL (CEILING MTD.) C = CEILING MTD + cdf MULTI-CANDELA SETTINGS	HOCHIKI #HCS24PCW (SEE PLANS FOR SETTINGS)	7125-0410.0188
xW	F.A. VISUAL (WALL MTD.) W = WALL MTD + cdf MULTI-CANDELA SETTINGS	HOCHIKI #HES3-24WR (SEE PLANS FOR SETTINGS)	7320-0410.0188
xW	FIRE ALARM EXTERIOR SPEAKER (WALL MTD.) xW = WATTAGE	GENTEX #WVSPKR (SEE PLANS FOR SETTINGS)	7320-0669.0141
—	END-OF-LINE RESISTOR	PER MANUFACTURER SPECIFICATION	



FIRE ALARM SITE PLAN

SCALE : 1" = 30'-0"

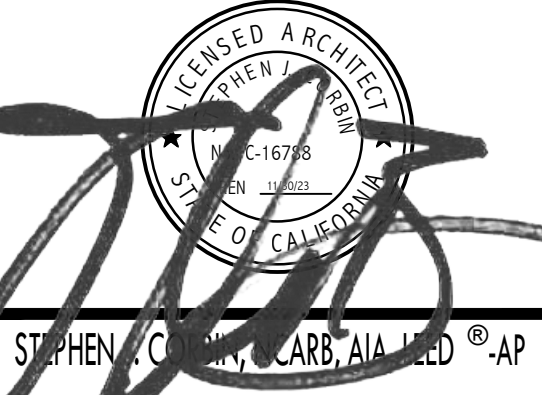


PTN: 63321-389 FILE: 15-6

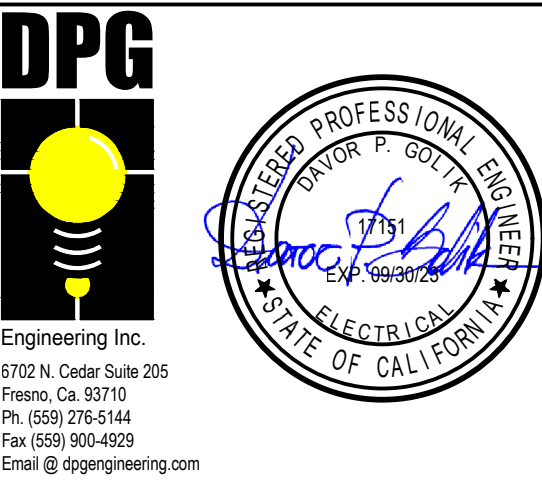
ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



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BAKERSFIELD, CA 93309
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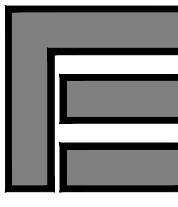
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.



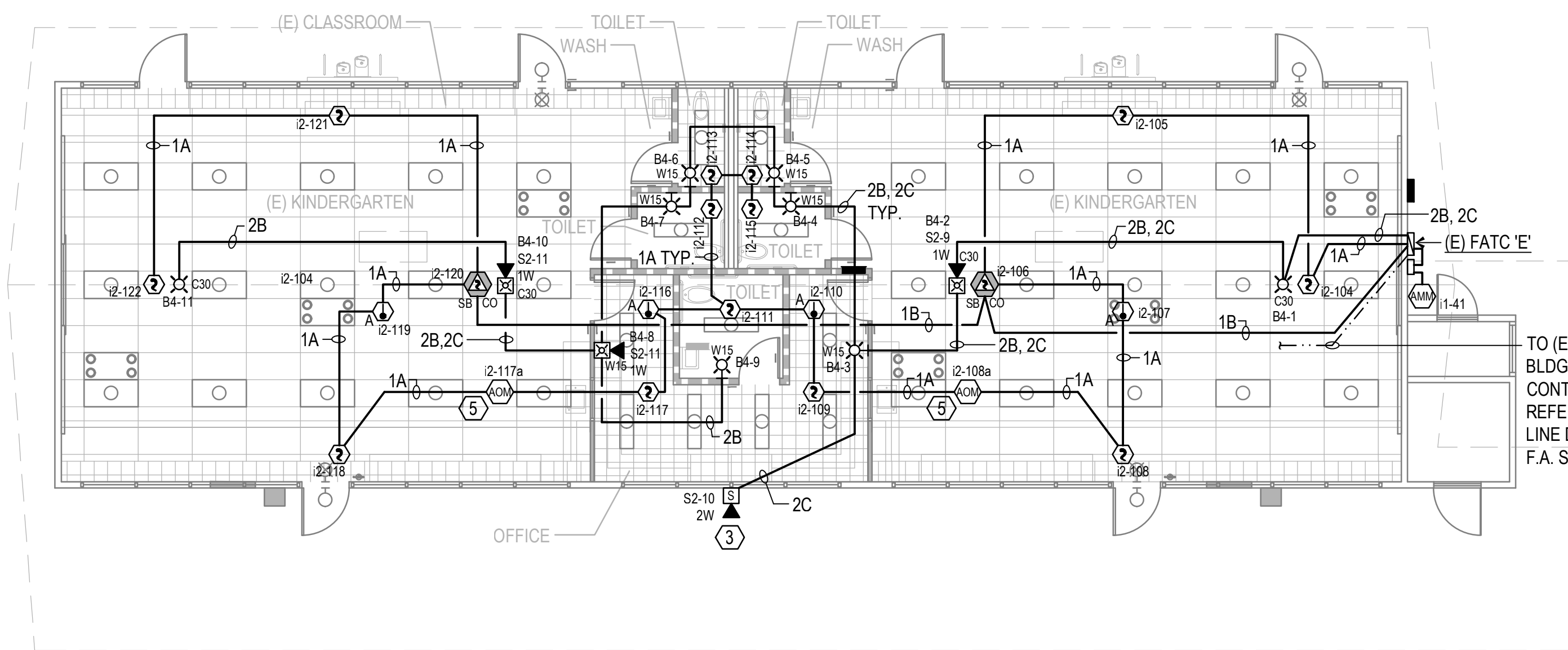
F.A. SITE PLAN,
SYMBOL LEGEND,
DETAILS, NOTES
AND SCHEDULES

MARK	DATE	REVISIONS
△		
△		
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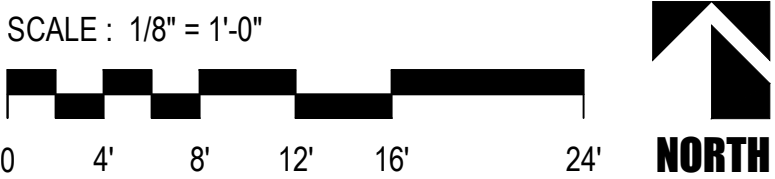
JOB NO.
1317
DRAWN:
R.L.M.
CHECKED:
D.P.G.
DATE:
12/8/22



4.00
OF SHEETS

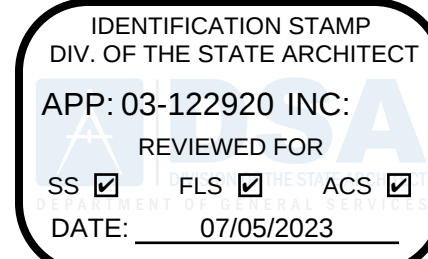


FIRE ALARM FLOOR PLAN
BUILDING 'E'



REFERENCE NOTES

- 1 REMOVE EXISTING FIRE ALARM DEVICE. REMOVE UNUSED CONDUIT AND WIRING. PATCH AS REQUIRED.
- 2 REMOVE EXISTING FIRE ALARM DEVICE. ADD JUNCTION BOX AND REUSE EXISTING CONDUIT AS REQUIRED.
- 3 EXISTING DEVICE LOCATION. REPLACE WITH NEW DEVICE AS SHOWN.
- 4 RE-CONNECT TO EXISTING FIRE ALARM FACP, PER SINGLE LINE DIAGRAM.
- 5 RELAY AT AC UNIT 'HP-3', FOR AUTOMATIC SHUT OFF PER CMC 608.



PTN: 63321-389 FILE: 15-6

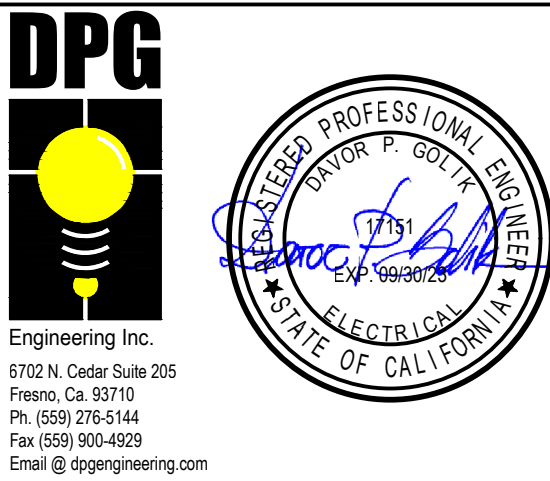
**ROOSEVELT ELEMENTARY SCHOOL
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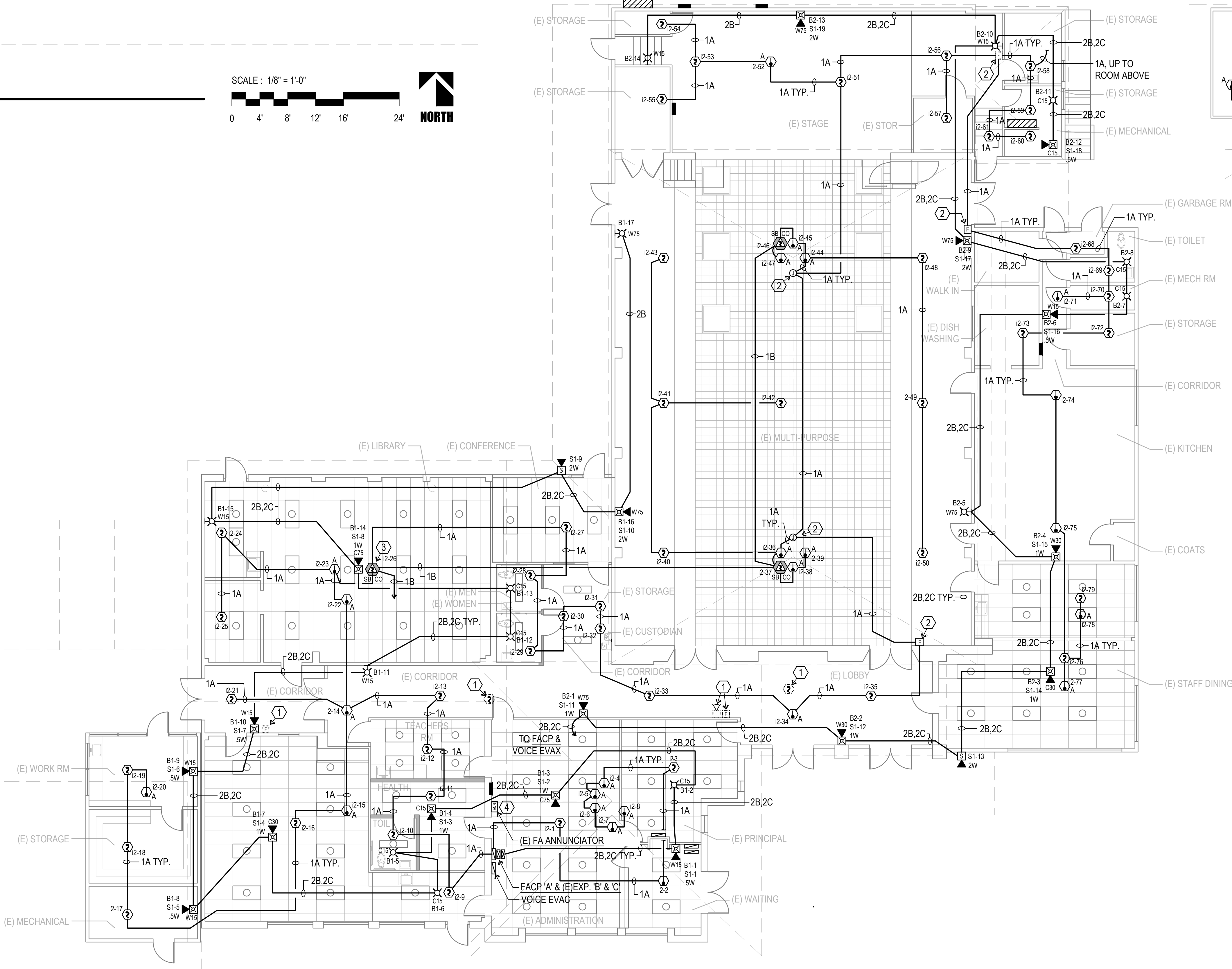


**BLDGS A & E
FIRE ALARM
FLOOR PLANS
AND NOTES**

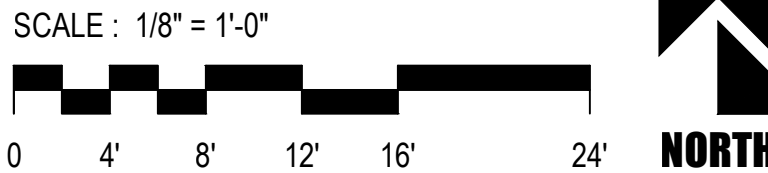
MARK	DATE	REVISIONS
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JOB NO. 1317	
DRAWN: R.L.M.	
CHECKED: D.P.G.	
DATE: 12/8/22	

4.10
OF SHEETS



FIRE ALARM FLOOR PLAN
BUILDING 'A'



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DATE: 07/05/2023

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



STEPHEN W. O'DONNELL, AIA, LEED®-AP

DPG

Engineering Inc.

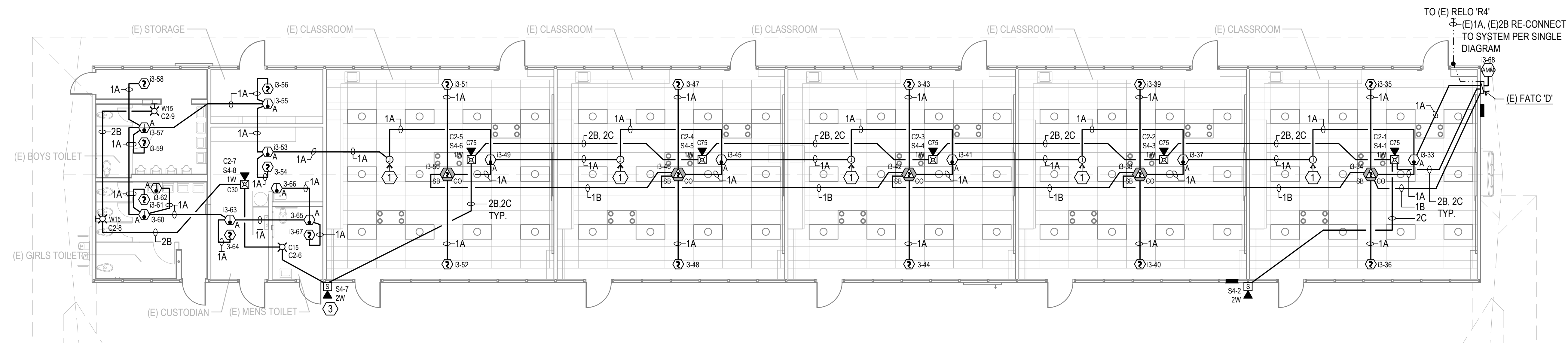
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph: (559) 278-5144
Fax: (559) 900-4509
Email: @dpgengineering.com

REGISTERED PROFESSIONAL ENGINEER
DAVID P. GOLIK
71915
EXP. 09/30/20
ELECTRICAL
STATE OF CALIFORNIA

MARK	DATE	REVISIONS
1		
2		
3		



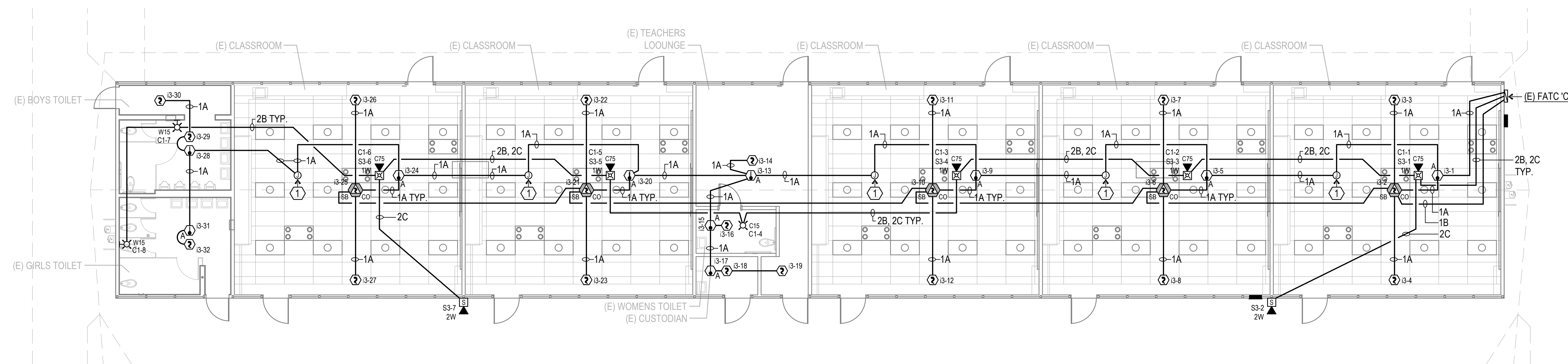
4.20
OF SHEETS



SCALE: 1/8" = 1'-0"

0 4' 8' 12' 16' 24'

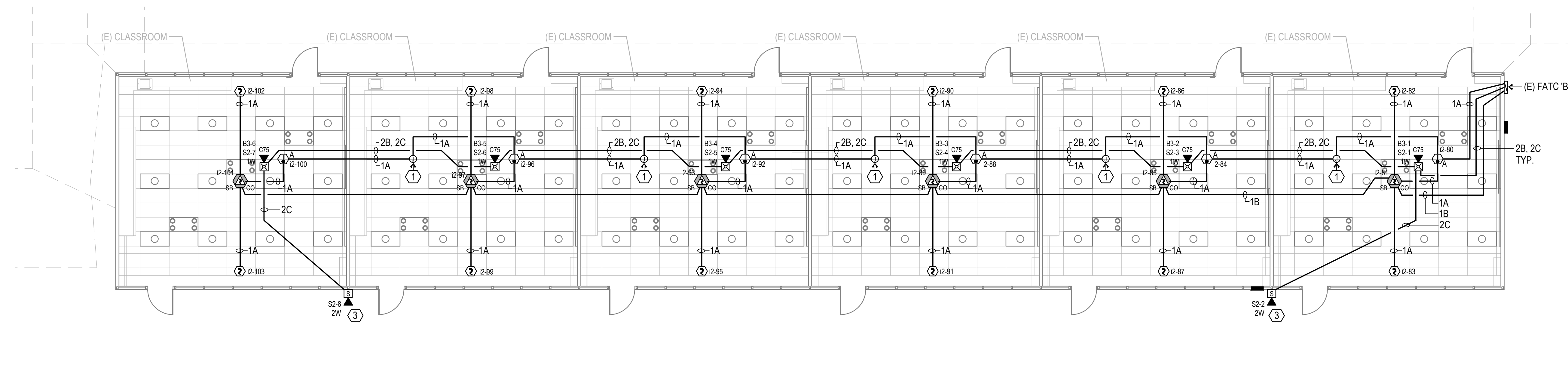
NORTH



SCALE : 1/8" = 1'-0"

0 4' 8' 12' 16' 24'

NORTH



SCALE : 1/8" = 1'-0"



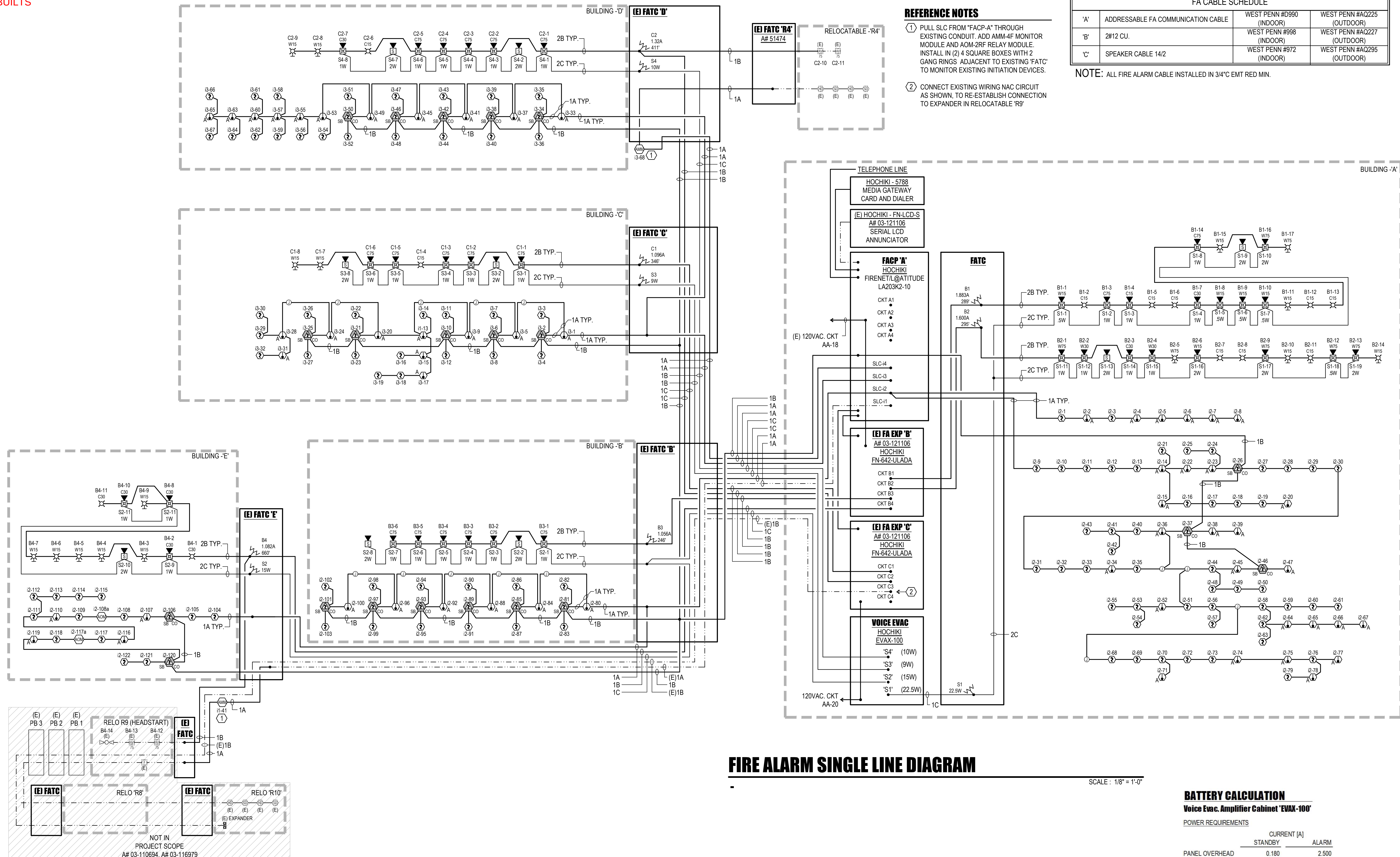
0 4' 8' 12' 16' 24'



NORTH

1 REMOVE EXISTING FIRE ALARM DEVICE. IF NECESSARY, ADD JUNCTION BOX AND REUSE EXISTING CONDUIT AS REQUIRED.

MARK	DATE	REVISIONS
1		
2		
3		

**FACP BATTERY CALCULATION**

Fire Alarm Control Panel

"FACP A"**POWER REQUIREMENTS**

	CURRENT [A]	
PANEL OVERHEAD	SUPERVISORY	ALARM
2 EXPANDER PNL	1.095	1.345
TWO FULL SLC LOOPS	0.130	0.140
NAC CIRCUITS SUMMARY	-	0.000
TOTALS	1.339	1.485

BATTERY CAPACITY

SUPERVISORY POWER	= 24 Hr * 1.339A =	32.136 Ahr
ALARM POWER	= 0.25 Hr * 1.485A =	0.371 Ahr
TOTAL POWER REQUIREMENT =		32.507 Ahr
WITH 20% SAFETY FACTOR =		39.009 Ahr
MINIMUM BATTERY CAPACITY =		55 Ahr
USE NOTIFIER BATTERIES (2) BAT-1250-BP		

Note:

- PRIOR TO START OF CONSTRUCTION, PERFORM BATTERY TEST AND PROVIDE REPORT TO EOR. INCLUDE IN REPORT, EXISTING SUPERVISORY AND ALARM CURRENT.
- PROVIDE BATTERY BOX AS REQUIRED

NAC EXTENDER BATTERY CALCULATION

Extender Panel

"B"**POWER REQUIREMENTS**

	CURRENT [A]	
PANEL OVERHEAD	SUPERVISORY	ALARM
NAC CIRCUITS	0.065	0.145
TOTALS	0.065	5.621

BATTERY CAPACITY

SUPERVISORY POWER	= 24 Hr * 0.065A =	1.560 Ahr
ALARM POWER	= 0.25 Hr * 5.766A =	1.442 Ahr
TOTAL POWER REQUIREMENT =		3.002 Ahr
WITH 20% SAFETY FACTOR =		3.602 Ahr
MINIMUM BATTERY CAPACITY =		5 Ahr
USE NOTIFIER BATTERIES (2) BAT-1250-BP		

NOTE: PROVIDE BATTERY BOX AS REQUIRED

VOLTAGE DROP CALCULATION

NAC Circuit "B1"

VD = Voltage Drop [V]
 I = Current [A] (1.883A)
 K = 11 (Copper Constant)
 L = Distance to Load [ft.] (289)
 CM = Circular Mils (#12 AWG = 6530)
 V = Voltage [V] (24VDC)

$$VD = K \cdot I \cdot L = 11 \cdot 1.883 \cdot 2 \cdot 289 = 1.833 \text{ V}$$

$$VD\% = \frac{VD}{CM} = \frac{1.833}{6530} = 9.0\%$$

VOLTAGE DROP CALCULATION

NAC Circuit "B3"

VD = Voltage Drop [V]
 I = Current [A] (1.056A)
 K = 11 (Copper Constant)
 L = Distance to Load [ft.] (246)
 CM = Circular Mils (#12 AWG = 6530)
 V = Voltage [V] (24VDC)

$$VD = K \cdot I \cdot L = 11 \cdot 1.056 \cdot 2 \cdot 246 = 0.875 \text{ V}$$

$$VD\% = \frac{VD}{CM} = \frac{0.875}{6530} = 4.3\%$$

VOLTAGE DROP CALCULATION

NAC Circuit "B2"

VD = Voltage Drop [V]
 I = Current [A] (1.6A)
 K = 11 (Copper Constant)
 L = Distance to Load [ft.] (295)
 CM = Circular Mils (#12 AWG = 6530)
 V = Voltage [V] (24VDC)

$$VD = K \cdot I \cdot L = 11 \cdot 1.6 \cdot 2 \cdot 295 = 1.590 \text{ V}$$

$$VD\% = \frac{VD}{CM} = \frac{1.590}{6530} = 7.8\%$$

VOLTAGE DROP CALCULATION

NAC Circuit "B4"

VD = Voltage Drop [V]
 I = Current [A] (1.082A)
 K = 11 (Copper Constant)
 L = Distance to Load [ft.] (660)
 CM = Circular Mils (#12 AWG = 6530)
 V = Voltage [V] (24VDC)

$$VD = K \cdot I \cdot L = 11 \cdot 1.082 \cdot 2 \cdot 660 = 2.406 \text{ V}$$

$$VD\% = \frac{VD}{CM} = \frac{2.406}{6530} = 11.8\%$$

REFERENCE NOTES

- PULL SLC FROM "FACP-A" THROUGH EXISTING CONDUIT. ADD AMM-4F MONITOR MODULE AND AOM-2RF RELAY MODULE. INSTALL IN (2) 4 SQUARE BOXES WITH 2 GANG RINGS ADJACENT TO EXISTING 'FATC' TO MONITOR EXISTING INITIATION DEVICES.
- CONNECT EXISTING WIRING NAC CIRCUIT AS SHOWN, TO RE-ESTABLISH CONNECTION TO EXPANDER IN RELOCATABLE 'R9'

FA CABLE SCHEDULE

	ADDRESSABLE FA COMMUNICATION CABLE	WEST PENN #D990 (INDOOR)	WEST PENN #AQ225 (OUTDOOR)
'A'	2#12 CU.	WEST PENN #998 (INDOOR)	WEST PENN #AQ227 (OUTDOOR)
'C'	SPEAKER CABLE 14/2	WEST PENN #972 (INDOOR)	WEST PENN #AQ295 (OUTDOOR)

NOTE: ALL FIRE ALARM CABLE INSTALLED IN 3/4" EMT RED MIN.

BATTERY CALCULATION

Voice Evac. Amplifier Cabinet "EVAX-100"

POWER REQUIREMENTS

	CURRENT [A]	
PANEL OVERHEAD	STANDBY	ALARM
SPEAKER LOAD	0.180	2.500
TOTALS	0.180	5.844

BATTERY CAPACITY

SUPERVISORY POWER	= 24 Hr * 0.18A =	4.320 Ahr
SPEAKER LOAD	= 0.25 Hr * 5.844A =	1.461 Ahr
TOTAL POWER REQUIREMENT =		5.781 Ahr
WITH 20% SAFETY FACTOR =		6.937 Ahr
MINIMUM BATTERY CAPACITY =		7 Ahr
USE NOTIFIER BATTERIES (2) BAT-1270-BP		

NOTE: PROVIDE BATTERY BOX AS REQUIRED

VOLTAGE DROP CALCULATION

NAC Circuit "C1"

VD = Voltage Drop [V]
 I = Current [A] (1.32A)
 K = 11 (Copper Constant)
 L = Distance to Load [ft.] (346)
 CM = Circular Mils (#12 AWG = 6530)
 V = Voltage [V] (24VDC)

$$VD = K \cdot I \cdot L = 11 \cdot 1.32 \cdot 2 \cdot 346 = 1.278 \text{ V}$$

$$VD\% = \frac{VD}{CM} = \frac{1.278}{6530} = 6.3\%$$

VOLTAGE DROP CALCULATION

NAC Circuit "C2"

VD = Voltage Drop [V]
 I = Current [A] (1.32A)
 K = 11 (Copper Constant)
 L = Distance to Load [ft.] (411)
 CM = Circular Mils (#12 AWG = 6530)
 V = Voltage [V] (24VDC)

$$VD = K \cdot I \cdot L = 11 \cdot 1.32 \cdot 2 \cdot 411 = 1.828 \text{ V}$$

$$VD\% = \frac{VD}{CM} = \frac{1.828}{6530} = 9.0\%$$

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 03-122920 INC:

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SS ☒ FLS ☒ ACS ☒

DATE: 07/05/2023

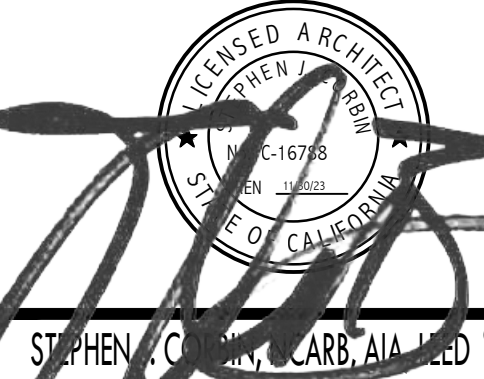
PTN: 63321-389

FILE: 15-6

**ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION**
2324 VERDE STREET
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BAKERSFIELD, KERN COUNTY, CALIFORNIA



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Engineering Inc.
6702 N. Cedar Suite 205
Fresno, Ca. 93710
Ph: (509) 278-5444
Fax: (509) 804-4929
Email: dpg@dpgeengineering.com

FIRE ALARM SINGLE LINE DIAGRAM

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.

1317

DRAWN:

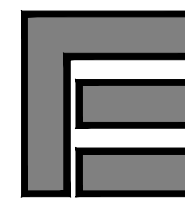
R.L.M.

CHECKED:

D.P.G.

DATE:

12/8/22



4.30

OF

SHEETS

AS BUILTS

PANEL 'PD'										VOLTAGE: 277/480 VOLT 3 PHASE 4 W BUS RATING: 400A CU FEEDER: REFER TO SINGLE LINE DIAGRAM										MAIN: 400/3 BREAKER STYLE: BOLT ON MTG STYLE: SURFACE NEMA 3R									
CT #	VA LOAD PER PHASE			LOAD DESCRIPTION	LOAD TYPE					CB	LOAD TYPE					LOAD DESCRIPTION	VA LOAD PER PHASE			CT #									
	A	B	C		LT	RC	HT	MO	MS		LT	RC	HT	MO	MS		A	B	C										
1	9945			HP-1				1	50	a					SPACE			2											
3		9945		-----				1	-	b					SPACE			4											
5			9945	-----				1	3	c					SPACE			6											
7	9945			HP-1				1	50	a					SPACE			8											
9		9945		-----				1	-	b					SPACE			10											
11			9945	-----				1	3	c					SPACE			12											
13	9945			HP-1				1	50	a					SPACE			14											
15		9945		-----				1	-	b					SPACE			16											
17			9945	-----				1	3	c					SPACE			18											
19	9945			HP-1				1	50	a					SPACE			20											
21		9945		-----				1	-	b					SPACE			22											
23			9945	-----				1	3	c					SPACE			24											
25	9945			HP-1				1	50	a					SPACE			26											
27		9945		-----				1	-	b					SPACE			28											
29			9945	-----				1	3	c					SPACE			30											
31				SPACE						a					SPACE			32											
33				SPACE						b					SPACE			34											
35				SPACE						c					SPACE			36											
37	55310			PANEL PC				250	a						SPACE			38											
39		55310		-----				-	b						SPACE			40											
41			49725	-----				3	c						SPACE			42											
100036 100035 99450 SUB TOTAL										SUB TOTAL					0 0 0			100035 100035 99450											
LOAD SUMMARY BY TYPE										CONNECTED	DEMAND FACTOR	DEMAND	TOTAL VA					CONNECTED AMPS											
										LIGHTING	0	125%	0						379 379 350										
										RECEPTACLES	0	100%	0																
										HEATING	0	100%	0																
										HVAC AND MOTORS	149175	100%	149175																
										MISCELLANEOUS	0	100%	0																

PANEL 'PC'										VOLTAGE: 277/480 VOLT 3 PHASE 4 W BUS RATING: 300A CU FEEDER: REFER TO SINGLE LINE DIAGRAM										MAIN: 250/3 BREAKER STYLE: BOLT ON MTG STYLE: SURFACE NEMA 3R									
CT #	VA LOAD PER PHASE			LOAD DESCRIPTION	LOAD TYPE					CB	LOAD TYPE					LOAD DESCRIPTION	VA LOAD PER PHASE			CT #									
	A	B	C		LT	RC	HT	MO	MS		LT	RC	HT	MO	MS		A	B	C										
1	9945			HP-1				1	50	a					SPACE				2										
3		9945						1	-	b					SPACE				4										
5			9945					1	3	c					SPACE				6										
7	9945			HP-1				1	50	a					SPACE				8										
9		9945						1	-	b					SPACE				10										
11			9945					1	3	c					SPACE				12										
13	9945			HP-1				1	50	a					SPACE				14										
15		9945						1	-	b					SPACE				16										
17			9945					1	3	c					SPACE				18										
19	9945			HP-1				1	50	a					SPACE				20										
21		9945						1	-	b					SPACE				22										
23			9945					1	3	c					SPACE				24										
25	9945			HP-1				1	50	a					SPACE				26										
27		9945						1	-	b					SPACE				28										
29			9945					1	3	c					SPACE				30										
31				HP-2 XF				1	40	a					SPACE				32										
33		5585						1	2	b					SPACE				34										
35				SPACE						c					SPACE				36										
37				SPACE						a					SPACE				38										
39				SPACE						b					SPACE				40										
41				SPACE						c					SPACE				42										
55310 55310 49725 SUB TOTAL										SUB TOTAL					0 0 0														
LOAD SUMMARY BY TYPE										CONNECTED	DEMAND FACTOR	DEMAND	TOTAL VA 55310 55310 49725																
										LIGHTING	0	125%	0	CONNECTED AMPS 200 200 180															
										RECEPTACLES	0	100%	0																
										HEATING	0	100%	0																
										HVAC AND MOTORS	160345	100%	160345																
										MISCELLANEOUS	0	100%	0																

VOLTAGE DROP CALCULATIONS														
VD (3 PHASE) = (1.73 * K * I * D) / CM														
	1.73	K	I	D	Wire Size	CM	VD	%@480	%@208					
PANEL PD	1.73	12	320	200	1328640 600 Kcmil	600000	2.2	0.5	1.1					
PANEL PC	1.73	12	160	80	265728 3/0	167800	1.6	0.3	0.8					
PANEL PB	1.73	12	240	330	1644192 350 Kcmil	350000	4.7	1.0	2.3					
PANEL PE	1.73	12	80	260	431808 #4	41740	10.3	2.2	5.0					
	1.73	12			0		#DIV/0!	#DIV/0!	#DIV/0!					
	1.73	12			0		#DIV/0!	#DIV/0!	#DIV/0!					
	1.73	12			0		#DIV/0!	#DIV/0!	#DIV/0!					
	1.73	12			0		#DIV/0!	#DIV/0!	#DIV/0!					
	1.73	12			0		#DIV/0!	#DIV/0!	#DIV/0!					
	1.73	12			0		#DIV/0!	#DIV/0!	#DIV/0!					
VD (1 PHASE) = (2 * K * I * D) / CM														
	2	K	I	D	CM	VD	%@480	%@208	%@120	%@277	%@230			
RECEPTACLE CIRCUIT 1A-18	2	12			0	12	6530	0.0	0.0	0.0	0.0	0.0	0.0	0.0
K = 12 COPPER loaded +50%														
K = AL loaded +50%														
D = DISTANCE														
CM = CIRCULAR MILS														
I = CURRENT														

PANEL 'PB'										VOLTAGE: 277/480 VOLT 3 PHASE 4 W										MAIN: 300/3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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AS BUILTS

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)(2) for alterations.

Project Name: ROOSEVELT ELEMENTARY SCHOOL MODERNIZATION

Report Page: Page 1 of 4

Project Address: BAKERSFIELD

Date Prepared: 11-1-22

A. GENERAL INFORMATION

01 Project Location (city) BAKERSFIELD

02 Occupancy Types Within Project:

☐ Office

☐ Retail

☐ Warehouse

☐ Hotel/ Motel

☒ School

☐ Support Areas

☐ Parking Garage

☐ High-Rise Residential

☐ Relocatable

☐ Healthcare Facilities

☐ Other (Write In):

B. PROJECT SCOPE

Table Instructions: Include any electrical service systems that are within the scope of the permit application.

01	02	03	04	05	06
Electrical Service Designation/ Description	Scope of Work ¹	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) ²	System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.
EXISTING	Add/Alt to feeders and branch circuits only		☐	☐	

¹ FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.
² Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

C. COMPLIANCE RESULTS

Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D, for guidance and review the Table that indicates "No".

01	02	03	04	05			
Service Electrical Metering §130.5(a)	AND	Separation for Monitoring §130.5(b)	AND	Voltage Drop §130.5(c)	AND	Controlled Receptacles §130.5(d)	05
(See Table F)		(See Table G)		(See Table H)		(See Table I)	Compliance Results
	AND		AND	Yes	AND		COMPLIES

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

Project Name: ROOSEVELT ELEMENTARY SCHOOL MODERNIZATION

Report Page: Page 3 of 4

Project Address: BAKERSFIELD

Date Prepared: 11-1-22

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/.

YES	NO	Form/Title	Field Inspector
☒	☐	NRCC-ELC-01-E - Must be submitted for all buildings.	Pass Fail

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

Project Name: ROOSEVELT ELEMENTARY SCHOOL MODERNIZATION

Report Page: Page 2 of 4

Project Address: BAKERSFIELD

Date Prepared: 11-1-22

D. EXCEPTIONAL CONDITIONS

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

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

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

F. SERVICE ELECTRICAL METERING

This Section Does Not Apply

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This Section Does Not Apply

H. VOLTAGE DROP

Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)(2)Pii.

01	02	03	04	05
Electrical Service Designation/ Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations ¹	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector
EXISTING	☒ Voltage drop < 5% ☐ Permitted by CA Elec Code (Exception to §130.5(c)) ²	In construction documents	E5.00	Pass Fail

¹ NOTES: If "Permitted by CA Elec Code" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.
² FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

STATE OF CALIFORNIA

Electrical Power Distribution

NRCC-ELC-E (Created 01/20)

CALIFORNIA ENERGY COMMISSION

NRCC-ELC-E

CERTIFICATE OF COMPLIANCE

Project Name: ROOSEVELT ELEMENTARY SCHOOL MODERNIZATION

Report Page: Page 4 of 4

Project Address: BAKERSFIELD

Date Prepared: 11-1-22

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: DAVOR P. GOLIK P.E.

Documentation Author Signature:

Company: DPG ENGINEERING

Signature Date: 11-1-22

Address: 6702 N CEDAR

CEA/ HERS Certification Identification (if applicable):

City/State/Zip: FRESNO CA 93710

Phone: 559 276 5144

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).

3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: DAVOR P. GOLIK P.E.

Responsible Designer Signature:

Company: DPG ENGINEERING

Date Signed: 11-1-22

Address: 6702 N CEDAR

License: E17151

City/State/Zip: FRESNO CA 93710

Phone: 559 276 5144

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards>

January 2020

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 03-122920 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 07/05/2023

PTN: 63321-389 FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

NRCC REPORT

MARK	DATE	REVISIONS
△		
△		
△		

JOB NO.
1317

DRAWN:
R.L.M.

CHECKED:
D.P.G.

DATE:
12/8/22

6.00
OF SHEETS

AS BUILTS

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting		NRCC-LTI-E	
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name: BUILDING A ROOSEVELT		Report Page: (Page 1 of 8)	
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022	
A. GENERAL INFORMATION			
01 Project Location (city)	BAKERSFIELD	04 Total Conditioned Floor Area (ft²)	4,179
02 Climate Zone	13	05 Total Unconditioned Floor Area (ft²)	0
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	
☒ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☒ Support Areas		1	
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☒ Other (Write in)		See Table I	
B. PROJECT SCOPE			
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.			
Scope of Work		Conditioned Spaces	
01		02	
My Project Consists of (check all that apply):		Calculation Method	
☒ New Lighting System		Area (ft²)	
☐ New Lighting System - Parking Garage		4179	
Area Category Method		Area Category Method	
Total Area of Work (ft²)		0	
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance			
Registration Date/Time: Report Version: 2019.1.003			
Registration Provider: Energysoft Schema Version: rev 20200601			

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION						
Indoor Lighting		NRCC-LTI-E						
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E						
Project Name: BUILDING A ROOSEVELT		Report Page: (Page 4 of 8)						
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022						
H. INDOOR LIGHTING CONTROLS (Not including PAFs)								
Area Level Controls								
04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylight Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector
OFFICE	Office greater than 250 square feet	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	Pass Fail
LOUNGE	Lounge Breakroom or Waiting Area	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	N/A	No	Pass Fail
LIBRARY	Library Reading Area	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	Pass Fail
STORAGE	All Other Space Types	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	Pass Fail
TOILET	Restrooms	Manual ON/OFF	Exempt*	Occupancy Sensor	N/A	N/A	No	Pass Fail
CONFERENCE	Convention, Conference, Multipurpose and Meeting Center Areas	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	Pass Fail
HALL	Corridor Area	Manual ON/OFF	Exempt*	Occupancy Sensor	N/A	N/A	No	Pass Fail
*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.								13
EX. Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2								Plan Sheet Showing Daylit Zones:
TOILET	MULTI LEVEL CONTROL NOT REQUIRED IN RESTROOMS						E2.30	
HALL	MULTI LEVEL CONTROL NOT REQUIRED IN CORRIDOR							
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance								Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft Schema Version: rev 20200601								Report Generated: 2022-11-03 08:20:40

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting		NRCC-LTI-E	
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
Project Name: BUILDING A ROOSEVELT		Report Page: (Page 7 of 8)	
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022	
T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION			
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/			
Yes	No	Form/Title	Field Inspector
☒	☐	NRCC-LTI-01-E - Must be submitted for all buildings	Pass Fail
☐	☒	NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	Pass Fail
☐	☒	NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	Pass Fail
☐	☒	NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	Pass Fail
☐	☒	NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	Pass Fail
U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE			
Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html			
Yes	No	Form/Title	Field Inspector
☒	☐	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Pass Fail
☒	☐	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Pass Fail
☐	☒	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Pass Fail
☐	☒	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF)	Pass Fail
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance			
Registration Date/Time: Report Version: 2019.1.003			
Registration Provider: Energysoft Schema Version: rev 20200601			

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION									
Indoor Lighting		NRCC-LTI-E									
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E									
Project Name: BUILDING A ROOSEVELT		Report Page: (Page 2 of 8)									
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022									
C. COMPLIANCE RESULTS											
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D for guidance.											
Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)				Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results		
	01	02	03	04	05	06	07	08	09		
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)3 (+)	Tailored §140.6(c)3 (+)	Total Allowed (Watts)	Total Designed (Watts)	PAF Lighting Control Credits §140.6(a)2 (-)	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 §140.6		
Conditioned	(See Table I)	(See Table I)	(See Table I)	(See Table K)	= 2,716	≥ 2,295	0	= 2295	COMPLIES		
Unconditioned					=	≥		=	COMPLIES		
Controls Compliance (See Table H for Details)				RATED POWER REDUCTION COMPLIANCE (See Table Q for Details)		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.							
F. INDOOR LIGHTING FIXTURE SCHEDULE				This table includes all permanent designed lighting and all portable lighting in offices.							
Designed Wattage: Conditioned Spaces											
01	02	03	04	05	06	07	08	09	10		
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector		
A	35 WATT LED	No	No	35	CEC Default	62	No	2,170	Pass Fail		
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance				Registration Date/Time: Report Version: 2019.1.003				Registration Provider: Energysoft			
Schema Version: rev 20200601				Report Generated: 2022-11-03 08:20:40							

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION							
Indoor Lighting		NRCC-LTI-E							
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E							
Project Name: BUILDING A ROOSEVELT		Report Page: (Page 5 of 8)							
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022							
I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS									
Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.									
Conditioned Spaces									
01	02	03	04	05	06	07	08	09	10
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	Area Category	PAF		
LOUNGE/BREAK ROOM	Lounge Breakroom or Waiting Area	0.65	941	611.6	No	No	No		
LIBRARY	Library Reading Area	0.8	961	768.8	No	No	No		
CONFERENCE	Convention, Conference, Multipurpose and Meeting Center Areas	0.85	205	174.2	No	No	No		
HALL	Corridor Area	0.6	141	84.6	No	No	No		
RESTROOM	Restrooms	0.65	137	89	No	No	No		
STORAGE	All Other Space Types	0.4	713	285.2	No	No	No		
OFFICE	Office greater than 250 square feet	0.65	1,081	702.6	No	No	No		
TOTALS:			4,179	2,716	See Tables J, or P for detail				
J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM				This section does not apply to this project.					
K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE				This section does not apply to this project.					
L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY				This section does not apply to this project.					
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING				This section does not apply to this project.					
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance				Registration Date/Time: Report Version: 2019.1.003				Registration Provider: Energysoft	
Schema Version: rev 20200601				Report Generated: 2022-11-03 08:20:40					

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting		NRCC-LTI-E	
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
Project Name: BUILDING A ROOSEVELT		Report Page: (Page 8 of 8)	
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Name: Davor P. Golik P.E.		Documentation Author Signature: [Signature]	
Company: DPG Engineering, Inc.		Signature Date: 2022-11-03	
Address: 6702 N Cedar #205		CEA/HERS Certification Identification (if applicable): E17151	
City/State/Zip: Fresno CA 93710		Phone: 559 275 5144	
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I certify the following under penalty of perjury, under the laws of the State of California:			
1. The information provided on this Certificate of Compliance is true and correct.			
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).			
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.			
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.			
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.			
Responsible Designer Name: DAVOR P. GOLIK P.E.		Responsible Designer Signature: [Signature]	
Company: DPG ENGINEERING		Date Signed: 2022-11-03	
Address: 6702 N CEDAR #205		License: E17151	
City/State/Zip: FRESNO CA 93710		Phone: 559 275 5144	
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance			
Registration Date/Time: Report Version: 2019.1.003			
Registration Provider: Energysoft Schema Version: rev 20200601			

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION									
Indoor Lighting		NRCC-LTI-E									
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E									
Project Name: BUILDING A ROOSEVELT		Report Page: (Page 3 of 8)									
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022									
F. INDOOR LIGHTING FIXTURE SCHEDULE											
8	25 WATT LED	No	No	25	CEC Default	5	No	125	☐	☐	
Total Designed Watts: CONDITIONED SPACES										2,295	
*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.											
*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c). Wattage used must be the maximum rated for the luminaire, not the lamp.											
G. MODULAR LIGHTING SYSTEMS											
This section does not apply to this project.											
H. INDOOR LIGHTING CONTROLS (Not including PAFs)											
This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.											
Building Level Controls											
01				02				03			
Mandatory Demand Response §110.12(c)				Shut-off controls §130.1(c)				Field Inspector			
Not Required <= 10,000 SF				Whole Building Other				Pass Fail			
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance				Registration Date/Time: Report Version: 2019.1.003				Registration Provider: Energysoft			
Schema Version: rev 20200601				Report Generated: 2022-11-03 08:20:40							

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting		NRCC-LTI-E	
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
Project Name: BUILDING A ROOSEVELT		Report Page: (Page 6 of 8)	
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022	
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS			
This section does not apply to this project.			
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE			
This section does not apply to this project.			
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))			
This section does not apply to this project.			
Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS			
This section does not apply to this project.			
R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS			
This section does not apply to this project.			
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)			
This section does not apply to this project.			
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance			
Registration Date/Time: Report Version: 2019.1.003			
Registration Provider: Energysoft Schema Version: rev 20200601			

IDENTIFICATION STAMP		
DIV. OF THE STATE ARCHITECT		
APP: 03-122920 INC:		
REVIEWED FOR:		
SS ☒	FLS ☒	ACS ☒
DATE: 07/05/2023		

PTN: 63321-389 FILE: 15-6

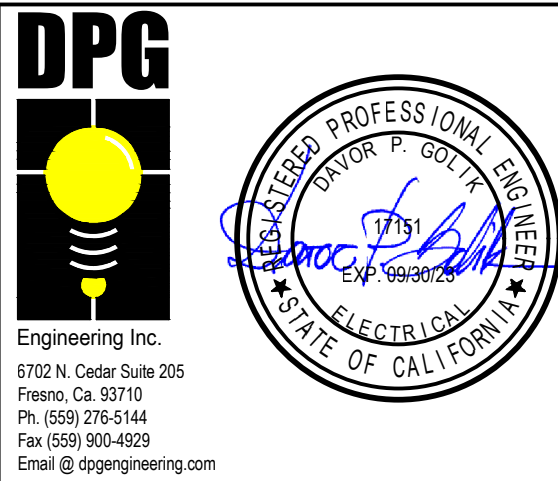
ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM



CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.



TITLE 24 REPORT
BUILDING 'A'

MARK	DATE	REVISIONS
△		
△		
△		

JOB NO. 1317	E
DRAWN BY: R.L.M.	
CHECKED BY: D.P.G.	
DATE: 12/8/22	
7.00 OF SHEETS	

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting			
NRCC-LTI-E		NRCC-LTI-E	
CERTIFICATE OF COMPLIANCE			
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name: BUILDING B ROOSEVELT		Report Page: (Page 1 of 7)	
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022	
A. GENERAL INFORMATION			
01 Project Location (city)	BAKERSFIELD	04 Total Conditioned Floor Area (ft²)	5,536
02 Climate Zone	13	05 Total Unconditioned Floor Area (ft²)	0
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	
☐ Office	☐ Retail	☐ Warehouse	☐ Hotel/Motel
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare
			☐ School
			☐ Other (Write in)
			☐ Support Areas
B. PROJECT SCOPE			
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.			
Scope of Work		Conditioned Spaces	
01		02	03
My Project Consists of (check all that apply):		Calculation Method	Area (ft²)
☒ New Lighting System		Complete Building Method	5536
☐ New Lighting System		Parking Garage	0
		Complete Building Method	0
Total Area of Work (ft²)		5536	
		0	
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance			
Registration Date/Time: Report Version: 2019.1.003		Registration Provider: Energysoft	
Schema Version: rev 20200601		Report Generated: 2022-11-03 08:35:03	

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting		Indoor Lighting	
NRCC-LTI-E		NRCC-LTI-E	
CERTIFICATE OF COMPLIANCE			
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name: BUILDING B ROOSEVELT		Report Page: (Page 4 of 7)	
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022	
I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS			
Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.			
Conditioned Spaces			
01	02	03	04
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)
Whole Building	School Building	0.65	5,536
TOTALS:		5,536	3,598.4
See Tables J, or P for detail			
J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM			
This section does not apply to this project.			
K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE			
This section does not apply to this project.			
L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY			
This section does not apply to this project.			
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING			
This section does not apply to this project.			
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS			
This section does not apply to this project.			
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE			
This section does not apply to this project.			
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))			
This section does not apply to this project.			
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance			
Registration Date/Time: Report Version: 2019.1.003		Registration Provider: Energysoft	
Schema Version: rev 20200601		Report Generated: 2022-11-03 08:35:03	

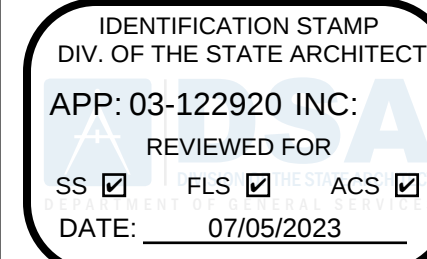
STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting		Indoor Lighting	
NRCC-LTI-E		NRCC-LTI-E	
CERTIFICATE OF COMPLIANCE			
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name: BUILDING B ROOSEVELT		Report Page: (Page 7 of 7)	
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Name: DAVOR P. GOLIK P.E.		Documentation Author Signature: [Signature]	
Company: DPG Engineering, Inc.		Signature Date: 2022-11-03	
Address: 6702 N Cedar #205		CEA/HERS Certification Identification (if applicable): E17151	
City/State/Zip: Fresno CA 93710		Phone: 559 275 5144	
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I certify the following under penalty of perjury, under the laws of the State of California:			
1. The information provided on this Certificate of Compliance is true and correct.			
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).			
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.			
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.			
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.			
Responsible Designer Name: DAVOR P. GOLIK P.E.		Responsible Designer Signature: [Signature]	
Company: DPG ENGINEERING		Date Signed: 2022-11-03	
Address: 6702 N CEDAR #205		License: E17151	
City/State/Zip: FRESNO CA 93710		Phone: 559 276 5144	
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance			
Registration Date/Time: Report Version: 2019.1.003		Registration Provider: Energysoft	
Schema Version: rev 20200601		Report Generated: 2022-11-03 08:35:03	

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION										
Indoor Lighting		Indoor Lighting										
NRCC-LTI-E		NRCC-LTI-E										
CERTIFICATE OF COMPLIANCE												
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.												
Project Name: BUILDING B ROOSEVELT		Report Page: (Page 2 of 7)										
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022										
C. COMPLIANCE RESULTS												
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.												
Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)(1)	Allowed Lighting Power per §140.6(b) (Watts)		Adjusted Lighting Power per §140.6(a) (Watts)		Compliance Results							
	01	02	03	04		05	06	07	08	09		
	Complete Building §140.6(c)(1)	Area Category §140.6(c)(2)	Area Category Additional §140.6(c)(2)(+)	Tailored §140.6(c)(3)(+)		Total Allowed (Watts)	Total Designed (Watts)	PAF Lighting Control Credits §140.6(a)(2)(+)	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 §140.6		
(See Table I)	(See Table I)	(See Table J)	(See Table K)	=	3,598	≥	2,520	0	=	2520	COMPLIES	
Conditioned	3,598				=	3,598	≥	2,520	0	=	2520	COMPLIES
Unconditioned					=		≥			=		COMPLIES
Controls Compliance (See Table H for Details)				COMPLIES								
Rated Power Reduction Compliance (See Table Q for Details)				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.								
F. INDOOR LIGHTING FIXTURE SCHEDULE				This table includes all permanent designed lighting and all portable lighting in offices.								
Designed Wattage: Conditioned Spaces												
01	02	03	04	05	06	07	08	09	10			
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)(3)	Design Watts	Field Inspector			
A	35 WATT LED	No	No	35	CEC Default	72	No	2,520	Pass Fail			
Total Designed Watts: CONDITIONED SPACES				2,520								
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance				Registration Date/Time: Report Version: 2019.1.003		Registration Provider: Energysoft						
Schema Version: rev 20200601				Report Generated: 2022-11-03 08:35:03								

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting		Indoor Lighting	
NRCC-LTI-E		NRCC-LTI-E	
CERTIFICATE OF COMPLIANCE			
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name: BUILDING B ROOSEVELT		Report Page: (Page 5 of 7)	
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022	
Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS			
This section does not apply to this project.			
R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS			
This section does not apply to this project.			
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)			
This section does not apply to this project.			
T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION			
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCL/			
Yes	No	Form/Title	Field Inspector
☒	☐	NRCL-LTI-01-E - Must be submitted for all buildings	Pass Fail
☐	☒	NRCL-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	Pass Fail
☐	☒	NRCL-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	Pass Fail
☐	☒	NRCL-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	Pass Fail
☐	☒	NRCL-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	Pass Fail
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance			
Registration Date/Time: Report Version: 2019.1.003		Registration Provider: Energysoft	
Schema Version: rev 20200601		Report Generated: 2022-11-03 08:35:03	

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting		Indoor Lighting	
NRCC-LTI-E		NRCC-LTI-E	
CERTIFICATE OF COMPLIANCE			
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name: BUILDING B ROOSEVELT		Report Page: (Page 3 of 7)	
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022	
F. INDOOR LIGHTING FIXTURE SCHEDULE			
FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)(4) is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment; the permit applicant should enter full rated wattage in column 05.			
Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c). Wattage used must be the maximum rated for the luminaire, not the lamp.			
G. MODULAR LIGHTING SYSTEMS			
This section does not apply to this project.			
H. INDOOR LIGHTING CONTROLS (Not including PAFs)			
This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.			
Building Level Controls			
01		02	
Mandatory Demand Response §110.12(c)		Shut-off controls §130.1(c)	
Not Required <= 10,000 SF		Whole Building Other	
Area Level Controls			
04	05	06	07
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)
CLASSROOM	School Building	Manual ON/OFF	Dimmer
		Occupancy Sensor	Included
		Included	Included
		No	Pass Fail
		Pass	Fail
*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.			
EX. Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)(2)			
Plan Sheet Showing Daylit Zones:			
E2.30			
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance			
Registration Date/Time: Report Version: 2019.1.003		Registration Provider: Energysoft	
Schema Version: rev 20200601		Report Generated: 2022-11-03 08:35:03	

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting		Indoor Lighting	
NRCC-LTI-E		NRCC-LTI-E	
CERTIFICATE OF COMPLIANCE			
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name: BUILDING B ROOSEVELT		Report Page: (Page 6 of 7)	
Project Address: 2324 VERDE STREET		Date Prepared: 11/3/2022	
U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE			
Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html			
Yes	No	Form/Title	Field Inspector
☒	☐	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Pass Fail
☒	☐	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Pass Fail
☐	☒	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Pass Fail
☐	☒	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF)	Pass Fail
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance			
Registration Date/Time: Report Version: 2019.1.003		Registration Provider: Energysoft	
Schema Version: rev 20200601		Report Generated: 2022-11-03 08:35:03	



PTN: 63321-389 FILE: 15-6

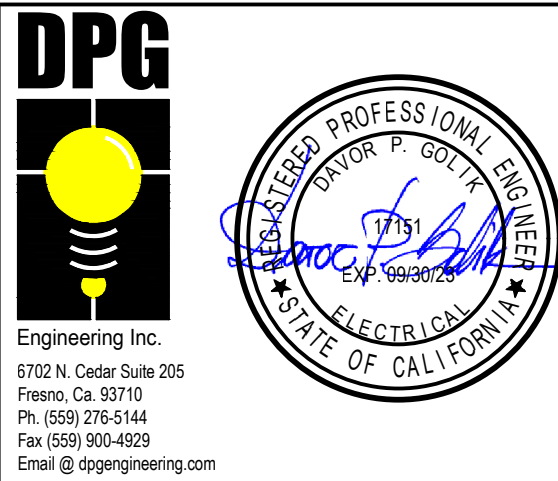
ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA



1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM



CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

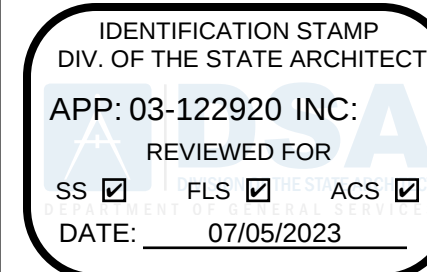


TITLE 24 REPORT
BUILDING 'B'

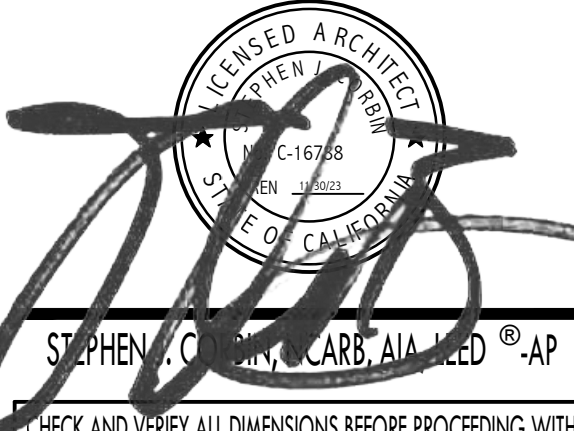
MARK	DATE	REVISIONS
△		
△		
△		

JOB NO.
1317
DRAWN:
R.L.M.
CHECKED:
D.P.G.
DATE:
12/8/22

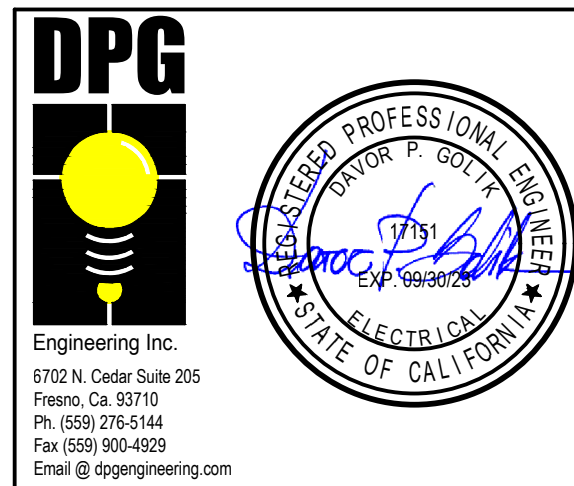
7.01
OF
SHEETS



PTN: 63321-389 FILE: 15-6

ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
WWW.SCARCHITECT.COM

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

TITLE 24 REPORT
BUILDING 'C'

MARK	DATE	REVISIONS
1		
2		
3		

JOB NO.
1317
DRAWN:
R.L.M.
CHECKED:
D.P.G.
DATE:
12/8/227.02
OF
SHEETS

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting		NRCC-LTI-E	
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)(2) for indoor lighting scopes using the prescriptive path.			
Project Name:		BUILDING C ROOSEVELT	
Project Address:		2324 VERDE STREET	
Report Page:		(Page 1 of 7)	
Date Prepared:		11/3/2022	
A. GENERAL INFORMATION			
01 Project Location (city)	BAKERSFIELD	04 Total Conditioned Floor Area (ft ²)	4,614
02 Climate Zone	13	05 Total Unconditioned Floor Area (ft ²)	0
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1
☐ Office	☐ Retail	☐ Warehouse	☐ Hotel/Motel
☐ Parking Garage	☐ High-Rise Residential	☐ Relocatable	☐ Healthcare
		☐ School	☐ Support Areas
		☐ Other (Write in)	See Table I
B. PROJECT SCOPE			
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)(2) for alterations.			
Scope of Work		Conditioned Spaces	
01	02	03	04
My Project Consists of (check all that apply):	Calculation Method	Area (ft ²)	Calculation Method
☒ New Lighting System	Area Category Method	4614	Area Category Method
☐ New Lighting System - Parking Garage			0
Total Area of Work (ft ²)		4614	0
Registration Number:			
Registration Date/Time:		Registration Provider: Energysoft	
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance		Report Version: 2019.1.003	
Schema Version: rev 20200601		Report Generated: 2022-11-03 08:52:15	

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION			
Indoor Lighting		NRCC-LTI-E			
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E			
Project Name: BUILDING C ROOSEVELT					
Project Address: 2324 VERDE STREET					
Report Page: (Page 4 of 7)					
Date Prepared: 11/3/2022					
L. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS					
Each area complying using the Complete Building or Area Category Methods per §140.6(d) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(e) are being used.					
Conditioned Spaces					
01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment
CLASSROOM	Classroom, Lecture, or Training Vocational Area	0.7	4,614	3,229.8	No
TOTALS:		4,614	3,229.8	See Tables J, or P for detail	
J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM					
This section does not apply to this project.					
K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE					
This section does not apply to this project.					
L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY					
This section does not apply to this project.					
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING					
This section does not apply to this project.					
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS					
This section does not apply to this project.					
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE					
This section does not apply to this project.					
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))					
This section does not apply to this project.					
Registration Number:		Registration Date/Time:		Registration Provider: Energysoft	
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance		Report Version: 2019.1.003		Report Generated: 2022-11-03 08:52:15	
Schema Version: rev 20200601					

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting		NRCC-LTI-E	
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E	
Project Name: BUILDING C ROOSEVELT			
Project Address: 2324 VERDE STREET			
Report Page: (Page 7 of 7)			
Date Prepared: 11/3/2022			
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Name: Davor P. Golik P.E.		Documentation Author Signature: 	
Company: DPG Engineering, Inc.		Signature Date: 2022-11-03	
Address: 6702 N Cedar #205		CEA/HERS Certification Identification (if applicable): E17151	
City/State/Zip: Fresno CA 93710		Phone: 559 275 5144	
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is to be included with the documentation the builder provides to the building owner at occupancy.			
Responsible Designer Name: DAVOR P. GOLIK P.E.		Responsible Designer Signature: 	
Company: DPG ENGINEERING		Date Signed: 2022-11-03	
Address: 6702 N CEDAR #205		License: E17151	
City/State/Zip: FRESNO CA 93710		Phone: 559 276 5144	
Registration Number:			
Registration Date/Time:		Registration Provider: Energysoft	
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance		Report Version: 2019.1.003	
Schema Version: rev 20200601		Report Generated: 2022-11-03 08:52:15	

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION							
Indoor Lighting		NRCC-LTI-E							
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E							
Project Name: BUILDING C ROOSEVELT									
Project Address: 2324 VERDE STREET									
Report Page: (Page 2 of 7)									
Date Prepared: 11/3/2022									
C. COMPLIANCE RESULTS									
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.									
Allowed Lighting Power per §140.6(b) (Watts)					Adjusted Lighting Power per §140.6(a) (Watts)			Compliance Results	
01 02 03 04 05					06 07 08			09	
Complete Building \$140.6(c)1					Area Category \$140.6(c)2			Area Category Additional \$140.6(c)2G (+)	
(See Table I)					(See Table J)			(See Table K)	
Conditioned					Unconditioned			COMPLIES	
Unconditioned					COMPLIES			COMPLIES	
Controls Compliance (See Table H for Details)									
Rated Power Reduction Compliance (See Table Q for Details)									
D. EXCEPTIONAL CONDITIONS									
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.									
E. ADDITIONAL REMARKS									
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.									
F. INDOOR LIGHTING FIXTURE SCHEDULE									
This table includes all permanent designed lighting and all portable lighting in offices.									
Designed Wattage: Conditioned Spaces									
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector
A	35 WATT LED	No	No	35	CEC Default	60	No	2,100	Pass Fail
Total Designed Watts: CONDITIONED SPACES							2,100		
Registration Number:									
Registration Date/Time:					Registration Provider: Energysoft				
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance					Report Version: 2019.1.003				
Schema Version: rev 20200601					Report Generated: 2022-11-03 08:52:15				

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION								
Indoor Lighting		NRCC-LTI-E								
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E								
Project Name: BUILDING C ROOSEVELT										
Project Address: 2324 VERDE STREET										
Report Page: (Page 3 of 7)										
Date Prepared: 11/3/2022										
Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS										
This section does not apply to this project.										
R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS										
This section does not apply to this project.										
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)										
This section does not apply to this project.										
T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION										
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/										
Yes	No	Form/Title							Field Inspector	
									Pass	Fail
		NRCC-LTI-01-E - Must be submitted for all buildings							☐	☐
		NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.							☐	☐
		NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.							☐	☐
		NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.							☐	☐
		NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.							☐	☐
Registration Number:										
Registration Date/Time:					Registration Provider: Energysoft					
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance					Report Version: 2019.1.003					
Schema Version: rev 20200601					Report Generated: 2022-11-03 08:52:15					

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION							
Indoor Lighting		NRCC-LTI-E							
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E							
Project Name: BUILDING C ROOSEVELT									
Project Address: 2324 VERDE STREET									
Report Page: (Page 3 of 7)									
Date Prepared: 11/3/2022									
F. INDOOR LIGHTING FIXTURE SCHEDULE									
Footnote: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.									
Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c). Wattage used must be the maximum rated for the luminaire, not the lamp.									
G. MODULAR LIGHTING SYSTEMS									
This section does not apply to this project.									
H. INDOOR LIGHTING CONTROLS (Not including PAFs)									
This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.									
Building Level Controls									
01			02				03		
Mandatory Demand Response §110.12(c)			Shut-off controls §130.1(c)				Field Inspector		
Not Required <= 10,000 SF			Whole Building Other				Pass Fail		
Area Level Controls									
04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
CLASSROOM	Classroom, Lecture, or Training Vocational Area	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	Pass Fail	
13								Plan Sheet Showing Daylit Zones:	
E2.30									
Registration Number:									
Registration Date/Time:					Registration Provider: Energysoft				
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance					Report Version: 2019.1.003				
Schema Version: rev 20200601					Report Generated: 2022-11-03 08:52:15				

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION								
Indoor Lighting		NRCC-LTI-E								
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E								
Project Name: BUILDING C ROOSEVELT										
Project Address: 2324 VERDE STREET										
Report Page: (Page 6 of 7)										
Date Prepared: 11/3/2022										
U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE										
Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcc/providers.html										
Yes	No	Form/Title							Field Inspector	
									Pass	Fail
		NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.							☐	☐
		NRCA-LTI-03-A - Must be submitted for automatic daylight controls.							☐	☐
		NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.							☐	☐
		NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF)							☐	☐
Registration Number:										
Registration Date/Time:					Registration Provider: Energysoft					
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance					Report Version: 2019.1.003					
Schema Version: rev 20200601					Report Generated: 2022-11-03 08:52:15					

STATE OF CALIFORNIA

Indoor Lighting

NRCC-114

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

PROJECT INFORMATION

Project Name:

BUILDING D ROOSEVELT

Report Page:

Project Address:

2324 VERDE STREET

Date Prepared:

11/3/2022

(Page 2 of 7)

NRCC-114-L

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(c)(1)	Allowed Lighting Power per §140.6(b) (Watts)					=	≥	Adjusted Lighting Power per §140.6(a) (Watts)		=	Total Adjusted (Watts) *Includes Adjustments	Compliance Results	
	01	02	03	04	05			06	07				08
	Complete Building	Area Category	Area Category Additional	Tailored				Total Designed (Watts)	Adjustments				
	§140.6(c)(1)	§140.6(c)(2)	§140.6(c)(3)	(+)	(+)			§140.6(a)(2)	(-)				
	(See Table I)	(See Table I)	(See Table J)	(See Table K)		(See Table F)	(See Table P)						
Conditioned	3,229.8	0			3,230	2,100	0	2100			05 must be >= 08 \$140.6		
Unconditioned												COMPLIES	
Controls Compliance (See Table H for Details)												COMPLIES	
Rated Power Reduction Compliance (See Table Q for Details)													

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Watts: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change	Watts per luminaire*	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)(3)	Design Watts	Field Inspector
A	35 WATT LED	No	No	35	CEC Default	60	No	2,100	Pass
Total Designed Watts: CONDITIONED SPACES								2,100	Fail

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003
Schema Version: rev 20200601

Report Generated: 2022-11-03 08:54:39

PTN: 63321-389 FILE: 15-6

**ROOSEVELT ELEMENTARY SCHOOL
MODERNIZATION**
2324 VERDE STREET
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

STATE OF CALIFORNIA

Indoor Lighting

NRCC-LTI-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Project Name:

BUILDING D ROOSEVELT

Report Page:

(Page 5 of 7)

Project Address:

2324 VERDE STREET

Date Prepared:

11/3/2022

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

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

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Yes

No

Field Inspector

Pass

Fail

Form/Title

NRCC-LTI-01-E: Must be submitted for all buildings

NRCC-LTI-02-E: Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.

NRCC-LTI-04-E: Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.

NRCC-LTI-05-E: Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.

NRCC-LTI-06-E: Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003

Schema Version: rev 20200601

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THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT. A
CONSTRUCTION SHALL CONFORM TO THE C.B.C.

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REGISTERED PROFESSIONAL
ENGINEER
19731
EXP. 09/30/2025
ELECTRICAL
STATE OF CALIFORNIA

TITLE 24 REPORT
BUILDING 'D'

MARK	DATE	REVISIONS
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JOB NO.	1317
DRAWN :	R.L.M.
CHECKED :	D.P.G.
DATE :	12/8/22



7.03

OF SH

AS BUILTS

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Indoor Lighting			
NRC-C-LTI-E			
CERTIFICATE OF COMPLIANCE			
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)(2) for indoor lighting scopes using the prescriptive path.			
Project Name:		BUILDING E ROOSEVELT	
Project Address:		2324 VERDE STREET	
Report Page:		Page 1 of 7	
Date Prepared:		11/3/2022	
A. GENERAL INFORMATION			
01 Project Location (city)		BAKERSFIELD	
02 Climate Zone		13	
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	
☐ Office		☐ Warehouse	
☐ Retail		☐ Hotel/Motel	
☐ High-Rise Residential		☐ Healthcare	
☐ Parking Garage		☐ Relocatable	
		☐ School	
		☐ Other (Write in)	
		☐ Support Areas	
B. PROJECT SCOPE			
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6, or §141.0(b)(2) for alterations.			
Scope of Work		Conditioned Spaces	
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