MADERA UNIFIED SCHOOL DISTRICT SERVER ROOM 1902 HOWARD ROAD MADERA, CALIFORNIA 93637

OWNER

MADERA UNIFIED SCHOOL DISTRICT 769 SOUTH PINE STREET MADERA, CA 93637 (559) 675-4546 CONTACT: ROSALIND COX

GENERAL NOTES:

- 1. ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- 2. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- 3. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. PROJECT REQUIRES A CLASS 3 INSPECTOR.
- 4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- 5. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFING THE REQUIRED WORK SHALL SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
- 6. LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCE WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL, OR OTHER ELEMENTS. ALL DUCT AND PIPE OFFSET ELBOWS FOR COORDINATION BETWEEN TRADES ARE NOT SHOWN. CONTRACTOR SHALL INCLUDE SUFFICIENT FUNDS FOR THE COORDINATION OFFSETS IN THE BID. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
- 7. <u>MEP COMPONENT ANCHORAGE NOTE</u>

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 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- 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.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD (SEOR) AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

<u>PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE</u> PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2019 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM), 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.

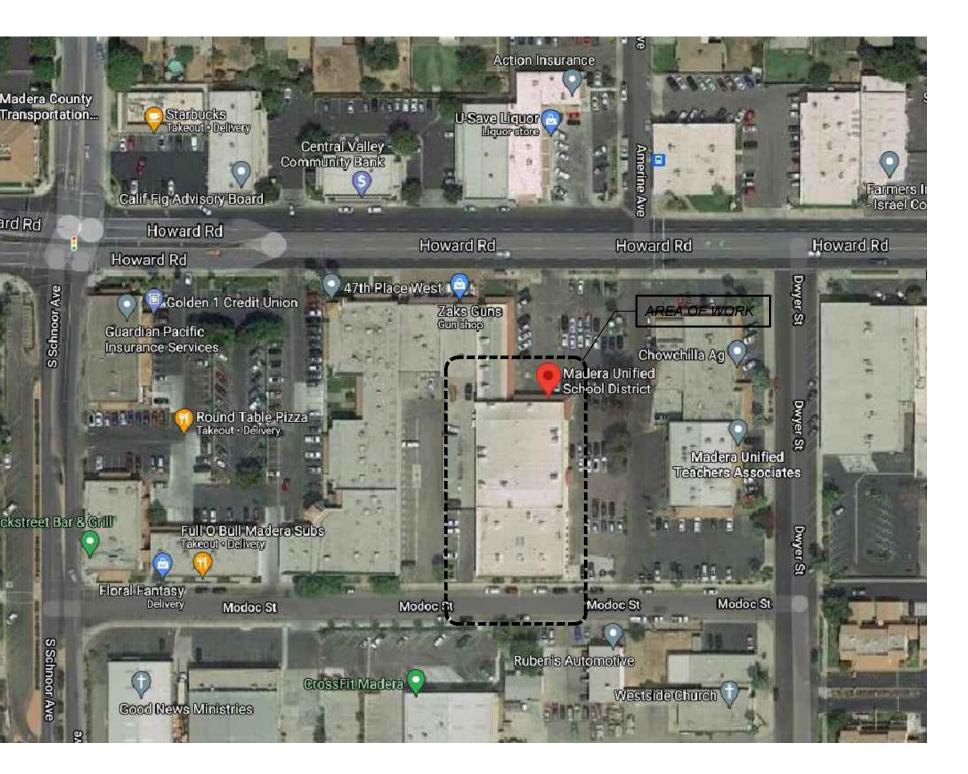
MECHANICAL/PLUMBING PIPING/DUCTS/ELECTRICAL:

OPTION : SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL MASON WEST OPM #0043-13. MECHANICAL ENGINEER LAWRENCE ENGINEERING GROUP

7084 NORTH MAPLE AVE. SUITE 101 FRESNO, CA 93720 (559) 431-0101 CONTACT: RYAN CARLSON ELECTRICAL ENGINEER

BORELLI & ASSOCIATES, INC. 2032 N. GATEWAY BLVD. FRESNO, CA 93727 (559) 233-4438 CONTACT: JOHN BORELLI STRUCTURAL ENGINEER

PARRISH HANSEN 418 CLOVIS AVE. CLOVIS, CA 93612 (559) 323-1023 CONTACT: BOB PARRISH





VICINITY PLAN

MECHANICALM1COVER SHEETM2MECHANICAL SITE PLANM3SERVER ROOM MECHANICAL PLANM4MECHANICAL DETAILSM5MECHANICAL SCHEDULES & TITLE 24ELECTRICALE1.01SYMBOLS LEGEND, NOTES, ABBREVIATIONSE1.02ELECTRICAL NOTES & LIGHTING SCHEDULES	SHEET COUNT 1 2 3 4 5
 M2 MECHANICAL SITE PLAN M3 SERVER ROOM MECHANICAL PLAN M4 MECHANICAL DETAILS M5 MECHANICAL SCHEDULES & TITLE 24 ELECTRICAL E1.01 SYMBOLS LEGEND, NOTES, ABBREVIATIONS	2 3 4
 M3 SERVER ROOM MECHANICAL PLAN M4 MECHANICAL DETAILS M5 MECHANICAL SCHEDULES & TITLE 24 ELECTRICAL E1.01 SYMBOLS LEGEND, NOTES, ABBREVIATIONS	3 4
 M4 MECHANICAL DETAILS M5 MECHANICAL SCHEDULES & TITLE 24 ELECTRICAL E1.01 SYMBOLS LEGEND, NOTES, ABBREVIATIONS 	4
M5 MECHANICAL SCHEDULES & TITLE 24 ELECTRICAL E1.01 SYMBOLS LEGEND, NOTES, ABBREVIATIONS	
ELECTRICAL E1.01 SYMBOLS LEGEND, NOTES, ABBREVIATIONS	5
E1.01 SYMBOLS LEGEND, NOTES, ABBREVIATIONS	
, , ,	
E1.02 ELECTRICAL NOTES & LIGHTING SCHEDULES	6
	5 7
E1.03 SINGLE LINE DIAGRAM & PANEL SCHEDULES	8
E2.01 ELECTRICAL SITE PLAN	9
E3.01 ELECTRICAL FLOOR PLANS	10
E3.02 ELECTRICAL ROOF PLANS	11
E3.03 FIRE ALARM FLOOR PLAN	12
E3.04 FIRE ALARM CALCULATIONS	13
E4.01 TYPICAL ELECTRICAL DETAILS	14
E4.02 TYPICAL ELECTRICAL DETAILS	15
E4.03 TYPICAL ELECTRICAL DETAILS	16
E5.01 OUTDOOR LIGHTING TITLE 24	17
E5.02 OUTDOOR LIGHTING TITLE 24	18

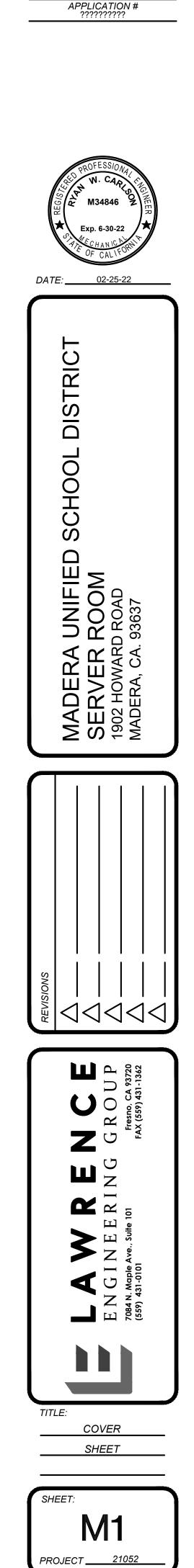
SCOPE OF WORK

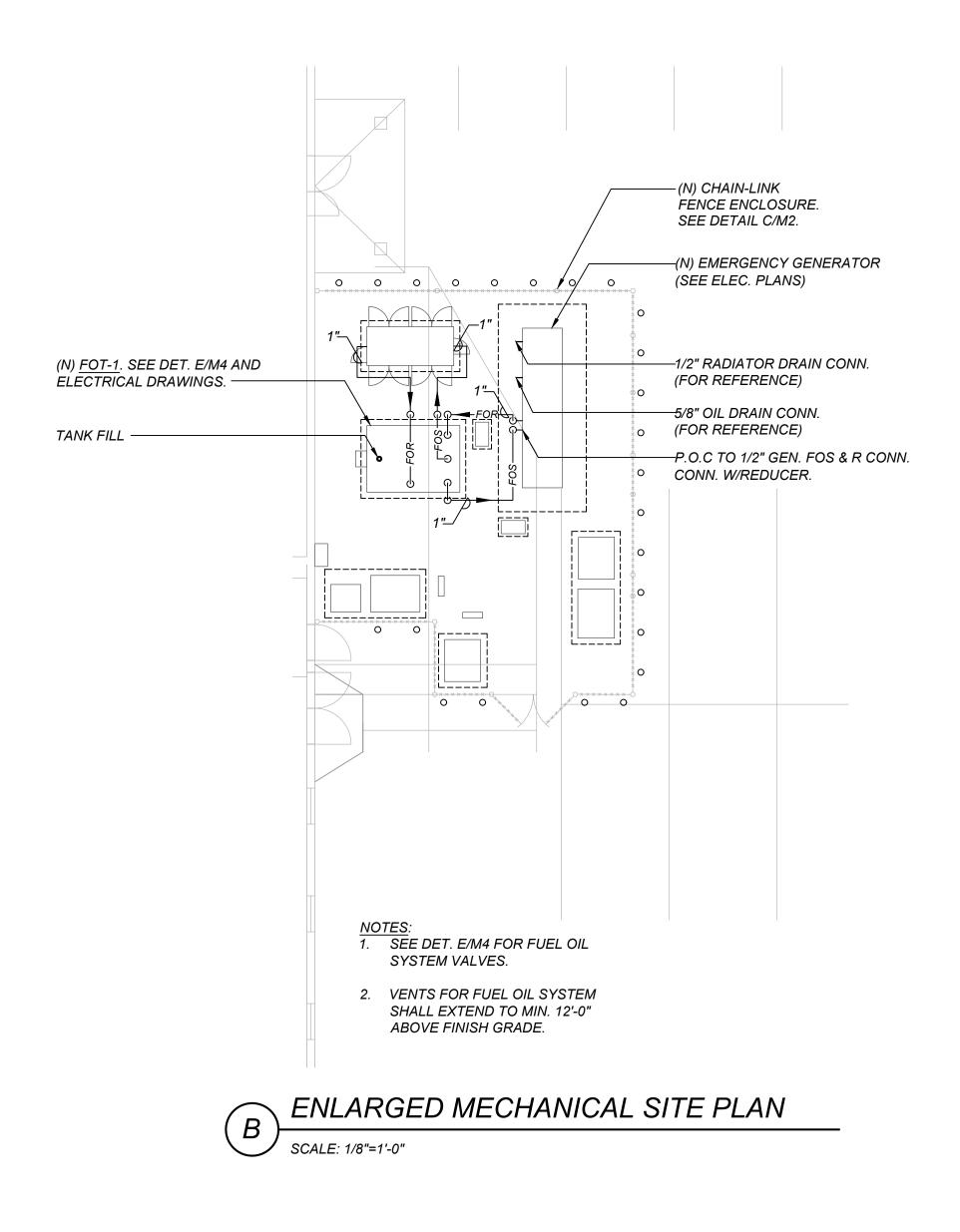
THE SCOPE OF WORK IS AS INDICATED BY THE CONTRACT DRAWINGS AND SPECIFICATION AND IS SUMMARIZED AS FOLLOWS:

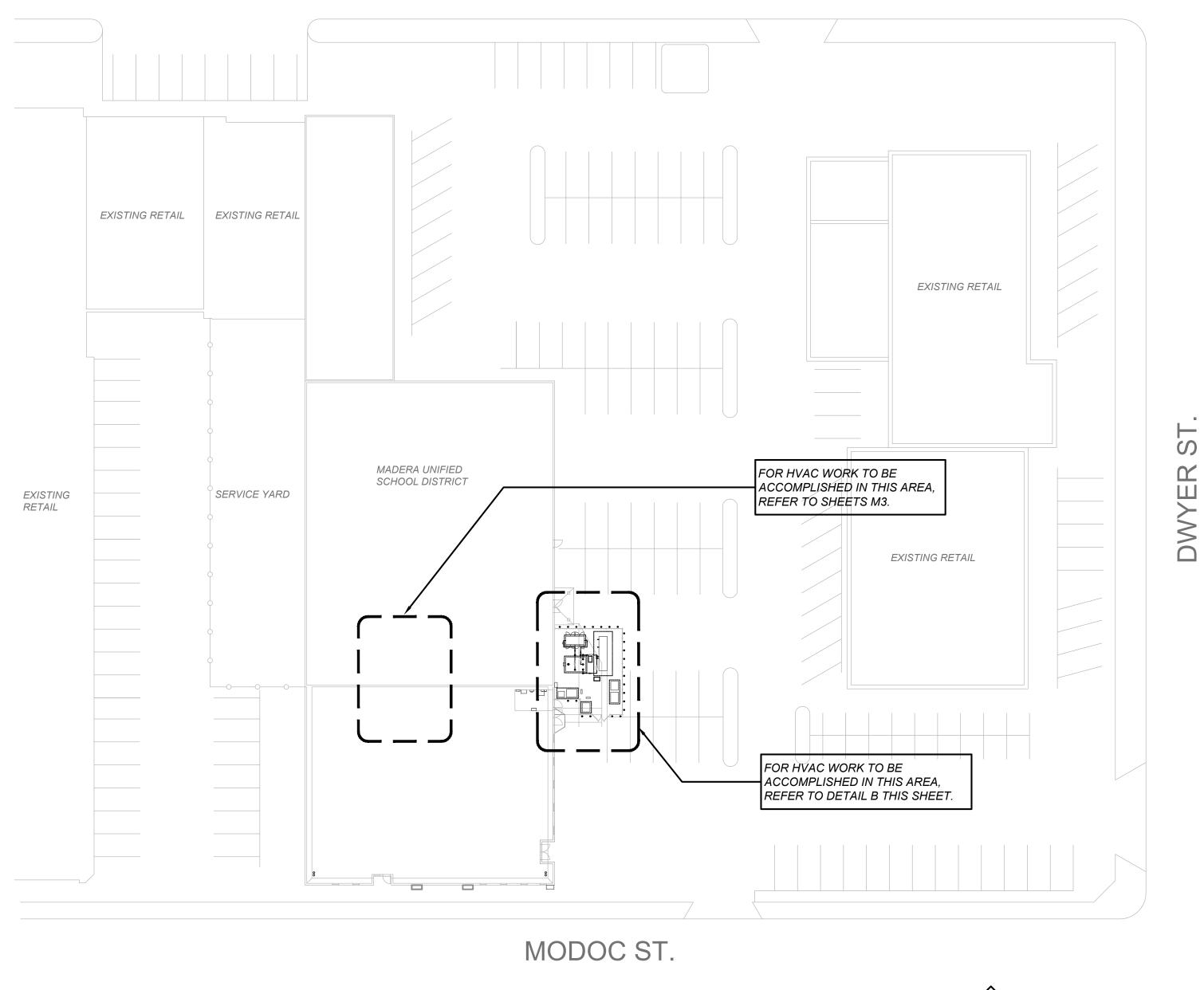
- REPLACE EXISTING SERVER ROOM PACKAGED UNITS WITH NEW IN-ROW COOLING SYSTEM.
- PROVIDE NEW DIESEL GENERATOR FOR EMERGENCY POWER.
- PROIVDE A WATER-FREE FIRE SUPPRESSION SYSTEM.

APPLICABLE CODES

- 2019 CALIFORNIA ADMINISTRATIVE CODE CCR TITLE 24, PART 1
- 2019 CALIFORNIA BUILDING CODE CCR TITLE 24, PART 2
 2010 CALIFORNIA ELECTRICAL CODE CCR TITLE 24, PART 2
- 2019 CALIFORNIA ELECTRICAL CODE CCR TITLE 24, PART 3
 2019 CALIFORNIA MECHANICAL CODE CCR TITLE 24, PART 4
- 2019 CALIFORNIA PLUMBING CODE CCR TITLE 24, PART 5
- 2019 CALIFORNIA ENERGY CODE CCR TITLE 24, PART 6
- 2019 CALIFORNIA FIRE CODE CCR TITLE 24, PART 9
- 2019 EXISTING BUILDING CODE CCR TITLE 24, PART 10
 2019 CALLEORNIA GREEN CODE CCR TITLE 24 PART 14
- 2019 CALIFORNIA GREEN CODE CCR TITLE 24 PART 11
 2019 CALIFORNIA REFERENCE CODE CCR TITLE 24 PART 12
- TITLE 19 CCR PUBLIC SAFTEY, STATE FIRE MARSHALL REGULATIONS
- 2019 NFPA 72 FOR FIRE ALARM SYSTEM. CFC CH 33 FIRE SAFTEY DURING CONSTRUCTION AND DEMOLITION







HOWARD RD.



SCALE: 1"=30'-0"

SYMBOL	ITEM	ABBR
	ROUND DUCT	
	SHEET METAL DUCT	_
	ACOUSTIC LINING FOR	
	DUCT OR GRILLES	(L)
□	DUCT W/EXT INSULATION & GALV. SM SUNSHIELD	-
Ň	SUPPLY AIR DUCT DROP	-
	RETURN AIR DUCT DROP	—
	EXHAUST DUCT AIR DROP	—
	SUPPLY AIR DUCT RISE	_
	RETURN AIR DUCT RISE	—
	EXHAUST AIR DUCT RISE	—
	TURNING VANES	TV
	EXTRACTOR	—
	VOLUME CONTROL DAMPER W/LOCKING QUADRANT	VCD
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
	VOLUME CONTROL DAMPER W/ REMOTE REGULATOR	VCR
CFM	CUBIC FEET OF AIR PER MINUTE	CFM
Ð	THERMOSTAT TOP OF BOX @ +4'-0"	T'STAT
Τ	EMS TEMPERATURE SENSOR TOP OF BOX @ + 5'-0"	-
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	DIRECTION OF FLOW	1 –
₽	SUPPLY AIR	SA
₽	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OSA
<u>G</u>	PIPE/DUCT TURN DOWN	
$\overline{\mathbf{O}}$	PIPE/DUCT TURN UP	—
<del>X</del>	POINT OF CONNECTION	POC
	EXISTING (DESIGNATED)	(E)
	NEW (DESIGNATED)	(N)
	CONDENSATE DRAIN PIPE	C
	REFRIGERANT SUCTION LINE	RS
	REFRIGERANT LIQUID LINE	RL
-FOR-		FOR
FOS-		FOS FOM
	FUEL OIL MONITOR CONTROL BALL VALVE	
	BALL VALVE BUTTERFLY VALVE	
	GLOBE VALVE	_
	CHECK VALVE	- 1
	GATE VALVE	<b>—</b>
	PLUG VALVE	-
	BALANCE COCK	<u>  _ </u>
	REDUCER OR INCREASER	-

AIR CONDITIONING LEGEND

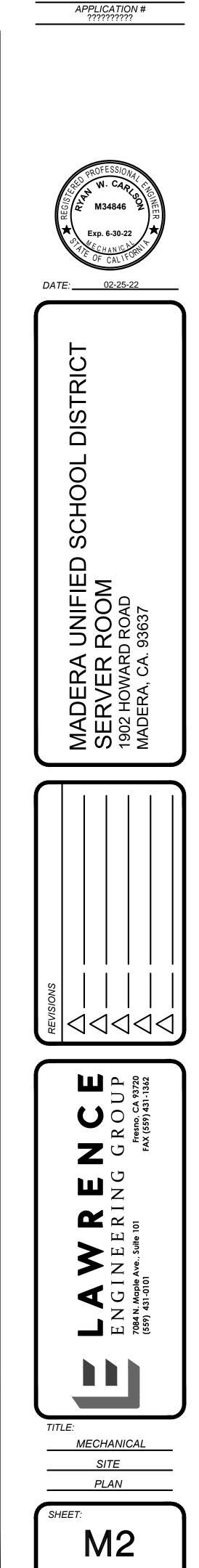
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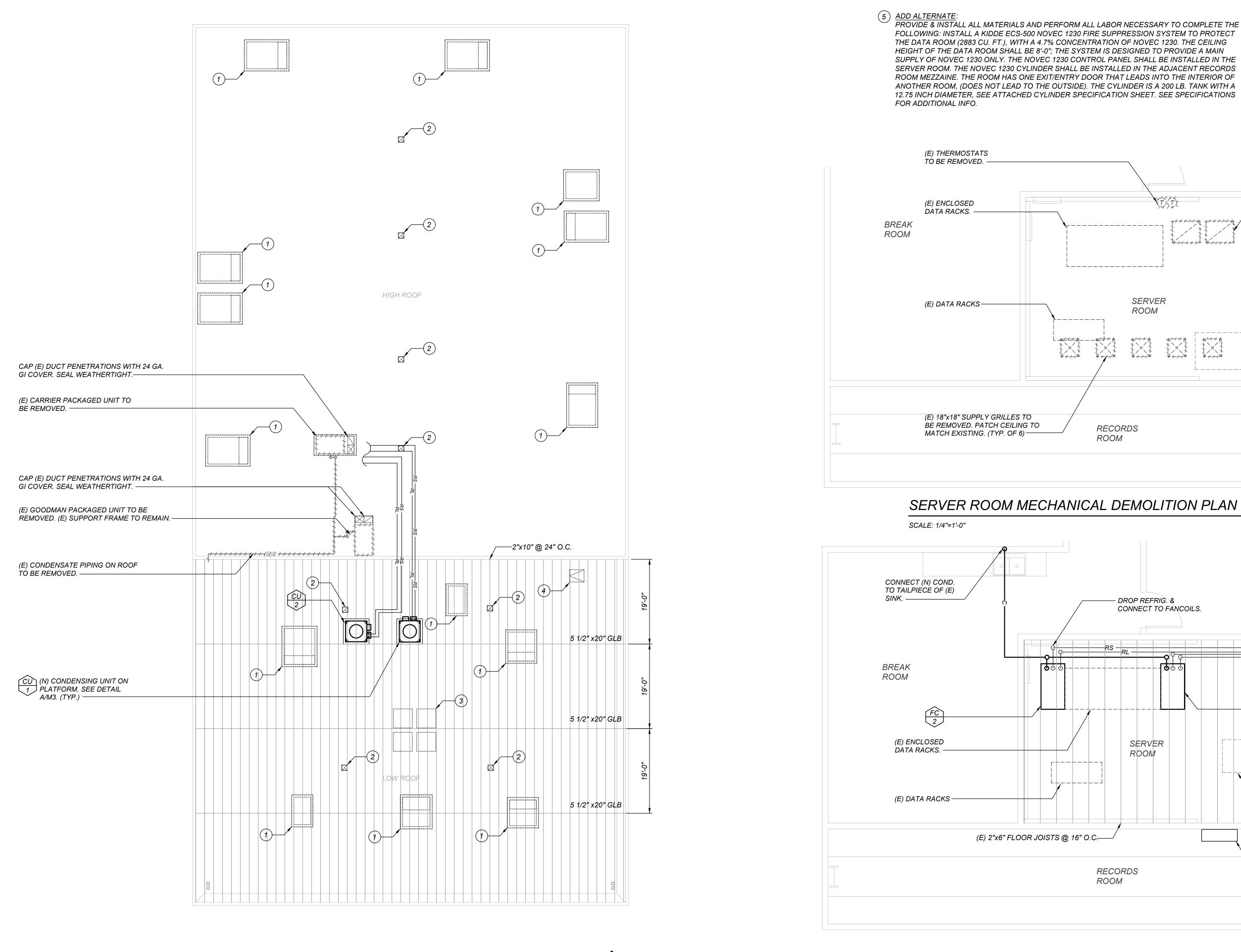
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I & A

1. ALL NEW WORK SHALL BE PERFORMED BEFORE DEMOLITION OF EXISTING PACKAGED UNITS SERVING THE SERVER ROOM TO MINIMIZE SERVER ROOM DOWNTIME.



PROJECT



# MECHANICAL DEMOLITION ROOF PLAN

SCALE: 3/32"=1'-0"

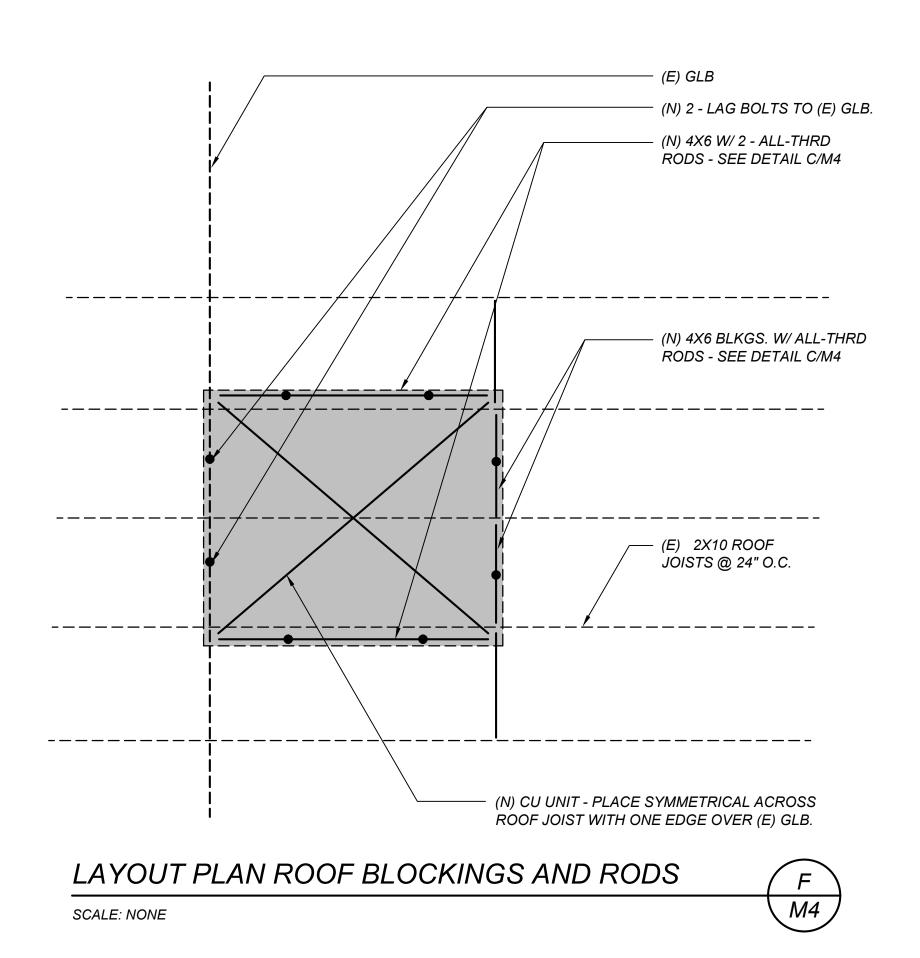
SERVER ROOM MECHANICAL PLAN

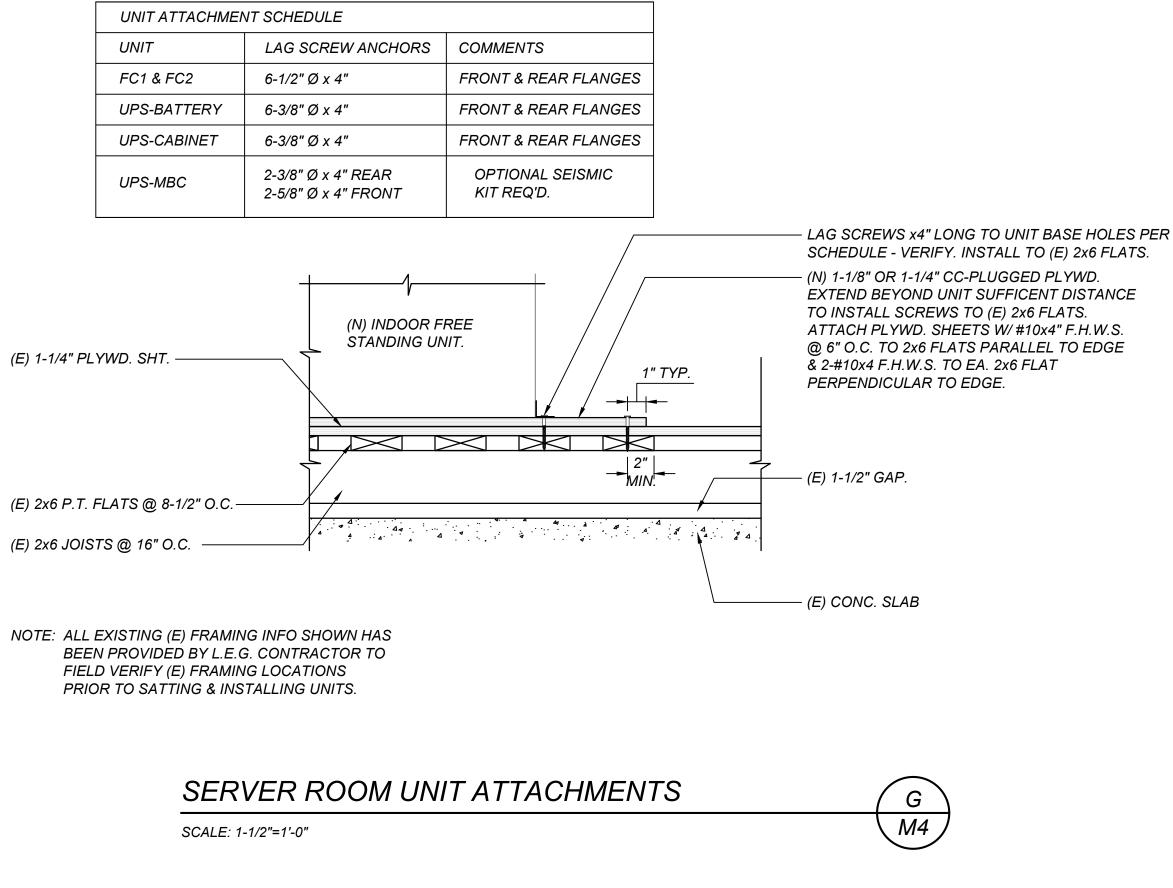
SCALE: 1/4"=1'-0"

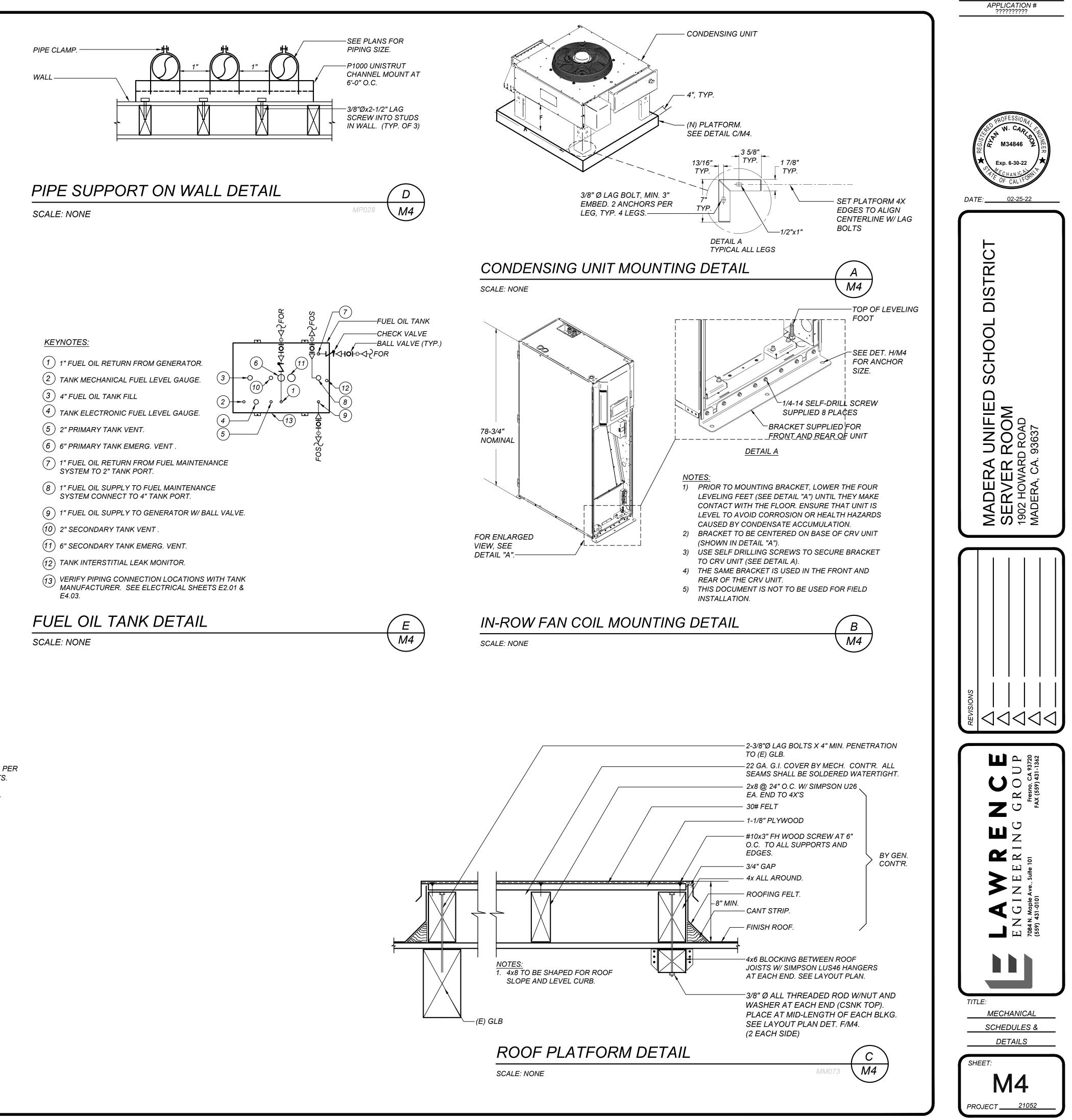
APPLICATION # <u>KEYNOTES</u>: (THIS SHEET ONLY) (1) EXISTING HVAC UNIT TO REMAIN. 2 EXISTING ATTIC VENT. (3) EXISTING SKYLIGHTS. (4) EXISTING ROOF ACCESS. (E) 30"x24" RETURN GRILLES DATE: 02-25-22 TO BE REMOVED. PATCH CEILING TO MATCH EXISTING. TRIC DIS Ο 0 SERVER ROOM CH S + \ / [ ] / \ + ] / \ + + \ / ] | / / | | / / /  $\cap$ `, / `, ↓ *↓* + , ⊢,/≯ UNIFIEI ROOM ____ Ŕ Ω Ш (E) UPS TO BE REMOVED. SEE ELECT. PLANS. D K ≺ш ≥ ທ -PROPOSED LOCATION SAPPHIRE CONTROL PANEL. ELECTRICAL TO PROVIDE 120 VAC POWER TO PANEL. DROP REFRIG. & CONNECT TO FANCOILS. -5/8" RS AND 1/2"RL PIPING. SEE M2 FOR CONTINUATION. -RL ----<del>,,</del> RS - $\mathbb{A}$ കക FC IN-ROW FAN COIL UNIT. SEE DETAILS B & G/M4. (TYP. OF 2) U P A 93720 31-1362 **U**  $\circ$  $\mathbf{A}$ SERVER ZÜ ROOM ШZ - (N) UPS. SEE ELECT. PLANS. ΓT) ΓŢ C E N 7084 n. POSSIBLE LOCATION FOR CLEAN AGENT FIRE SUPPRESSION TANK ENCLOSURE AT MEZZANINE ABOVE RECORDS ROOM CEILING. SEE KEYNOTE 5 TITLE: SERVER ROOM MECHANICAL PLAN SHEET: **M**3

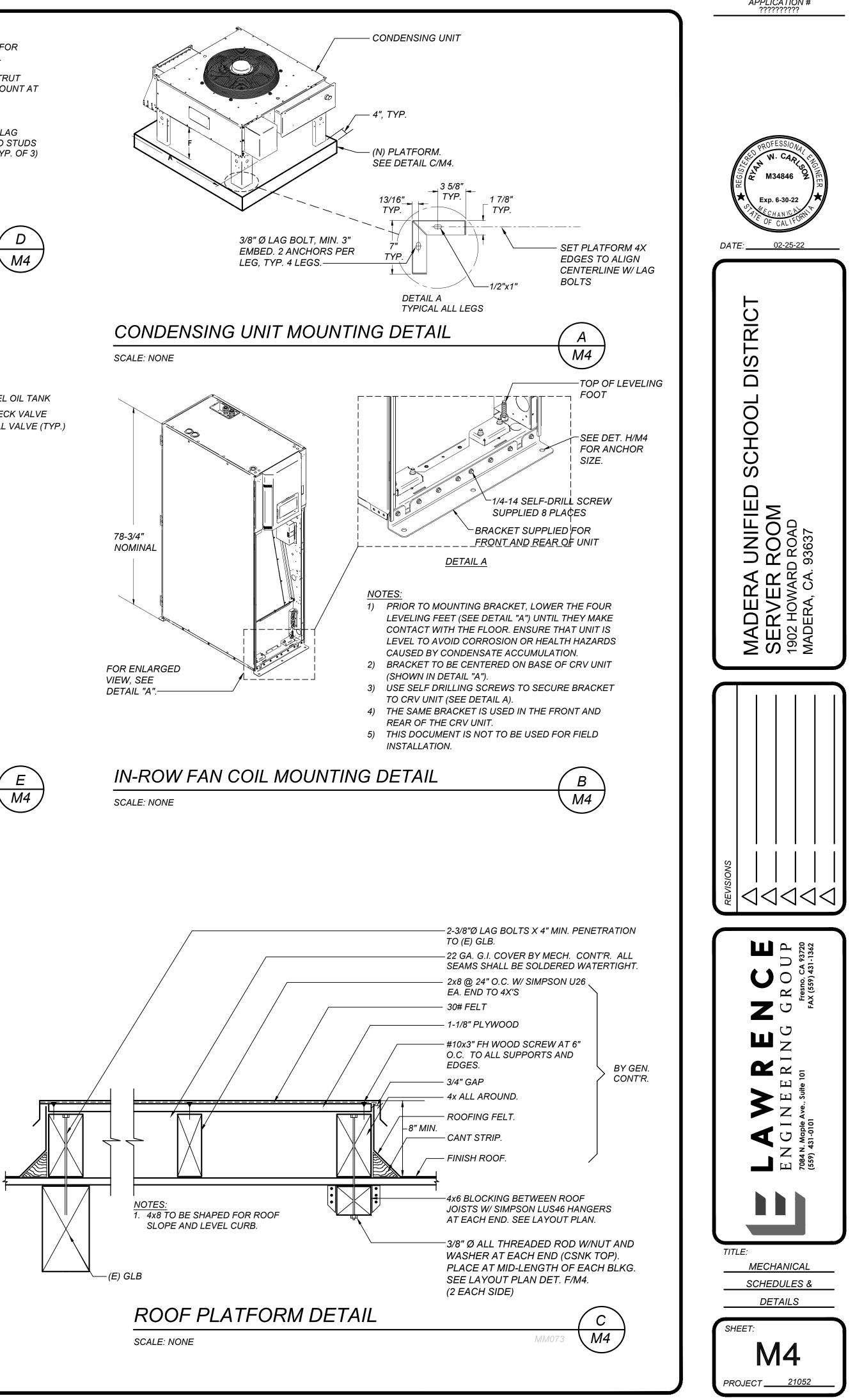
APPROVALS:

PROJECT









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M. COMPUT	ER ROOM	I SYSTEM SUMMARY				-				
This table inc	ludes all coi	mputer rooms with power densi	ty greater thai	n 20 W/ft ² to document com	pliance with pi	escriptive requ	irements in <u>§1</u>	. <u>40.9(a)</u> .		
01		02	03	04	05	06	07	08	09	Î
					Fan	Power §140.9	(a) <u>4</u>		0	
Computer Room Name/ ID	Econo	omizer Compliance Method <u>§140.9(a)1</u>	Reheat <u>§140.9(a)2</u>	Humidification <u>§140.9(a)3</u>	Sensible Cooling Capacity ¹	Total Fan System Power per	Maximum Fan System Power Allowed	Fan Controls <u>§140.9(a)5</u>	Containment	<u>§140.9(a)6</u>
					(kBtuh)	Design (Watts)	(Watts)			
Server Room	existing building	w cooling systems serving an computer room in an existing up to a total of 50 tons of new ng equipment per building	Zone controls designed to prevent reheat	None Provided	68000	750	1836000	NA: Not Unitary AC System > 60kBtuh or CHW Fan System	NA: Expansion computer	-
¹ FOOTNOTES	: Refers to I	net sensible cooling capacity at (	design conditio	ons			I			
			-							
N. COMMEN		HEN EXHAUST AND VENTILA	TION							
	ORY AND	FACTORY EXHAUST AND FUR								
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	Yes	No	Form/Title
- ľ	0	۲	NRCA-PRC-01-F Compressed Air Systems
ſ	0	۲	NRCA-PRC-02-F Kitchen Exhaust
ſ	0	۲	NRCA-PRC-03-F Garage Exhaust
ſ	0	۲	NRCA-PRC-04-F Refrigerated Warehouses - Evaporator Fan Motor Controls
ſ	0	۲	NRCA-PRC-05-F Refrigerated Warehouses - Evaporative Condenser Controls
ſ	0	۲	NRCA-PRC-06-F Refrigerated Warehouses - Air Cooled Condenser Controls
ſ	0	۲	NRCA-PRC-16-F Refrigerated Warehouses - Adiabatic Condenser Controls
ſ	0	۲	NRCA-PRC-07-F Refrigerated Warehouses - Variable Speed Compressor
Γ	0	۲	NRCA-PRC-08-F Refrigerated Warehouses - Electric Resistance Underslab Heating System
ſ	0	۲	NRCA-PRC-12-F Elevator Lighting & Ventilation Controls
ſ	0	۲	NRCA-PRC-13-F Escalators & Moving Walkways Speed Controls
ſ	0	۲	NRCA-PRC-14-F Lab Exhaust Ventilation Systems
			NRCA-PRC-15-F Fume Hood Automatic Sash Closure Systems

Registration Number:	Registration Date/Time:
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601

ST	ATE	0	F C/	٩LII	OR	NI	A		
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### Process Systems

NRCC-PRC-E		
CERTIFICATE OF COMPLIANCE		
Project Name:	Server Room Upgrade	Report Page:
Project Address:		Date Prepared:
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
I certify that this Certificate of Compliance documentation	is accurate and comple	te.

ocumenta	ation Author Name:	Documentation Author Sign	at
nthony	Bischel		
mpany:		Signature Date:	-
wrence	e Engineering Group	8/26/2	1
ldress:		CEA/ HERS Certification Ider	۱ti
ty/State/	Źip:	Phone:	
ESPON	ISIBLE PERSON'S DECLARATION STATEMENT		
ertify the	e 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 build	ling design or system design	id
3.	The energy features and performance specifications, materials, components, and manufactured device of Title 24, Part 1 and Part 6 of the California Code of Regulations.	s for the building design or sy	/S
4.	The building design features or system design features identified on this Certificate of Compliance are of plans and specifications submitted to the enforcement agency for approval with this building permit approach and specifications are completed as the enforcement agency for approval with the building permit approach and specifications are completed as the enforcement agency for approval with the building permit approach as the enforcement agency for approach and specifications are completed as the enforcement agency for approach and specifications are completed as the enforcement agency for approach agency for approach agency for approach agency for approach agency for a provide a specification and the enforcement agency for approach agency for a provide agency for a prov		or
5.	I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with inspections. I understand that a completed signed copy of this Certificate of Compliance is required to I	• • • • •	
sponsibl	e Designer Name:	Responsible Designer Signat	u
mpany:		Date Signed:	-
droce:		License:	

ty/State/Zip:

**Registration Number:** 

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

	Systems/Spaces To Be	Field Inspecto	
	Field Verified	Pass	Fail
	false		
stem	false		
	false		

Registration Provider: Energy Code Ace Report Generated: 2021-08-26 15:32:30

CALIFORNIA ENERGY COMMISSION NRCC-PRC-E (Page 5 of 5) 2021-08-26T18:32:29-04:00

ature: Anth Bill ification (if applicable):

identified on this Certificate of Compliance (responsible designer) system design identified on this Certificate of Compliance conform to the requirements n provided on other applicable compliance documents, worksheets, calculations, ed for the building, and made available to the enforcement agency for all applicable tation the builder provides to the building owner at occupancy.

STATE OF CALIFORNIA Process Systems

CERTIFICATE OF COMPLIANCE

NRCC-PRC-E

NRCC-PRF-E.

01

requirements in <u>§140.9</u>. This compliance document is used for newly constructed, addition and alteration projects. Server Room Upgrade Report Page: Project Name: (Page 1 of 5) 2021-08-26T18:32:29-04:00 Project Address: Date Prepared: A. GENERAL INFORMATION 01 Project Location (city) 04 Total Conditioned Floor Area 360 Madera 02 Climate Zone 05 Total Unconditioned Floor Area 13 0 06 # of Stories (Habitable Above Grade) 03 Occupancy Types Within Project: 1 Office 🗌 Retail Non-refrigerated Warehouse Hotel/ Motel School Healthcare Facility High-Rise Residential Relocatable Class Bldg Other (write in) B. PROJECT SCOPE This table includes process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in <u>§120.6</u> or prescriptive requirements in <u>§140.9</u>. My project consists of: (check all that apply): 02 Refrigerated Spaces <3,000 ft² Total (no Title 24, Pt6 requirements) Elevator Lighting & Ventilation Controls (mandatory <u>§120.6(f)</u>) Refrigerated Spaces >=3,000 ft² Total (mandatory <u>§120.6(a)</u>) Escalator & Moving Walkway Speed Controls (mandatory <u>§120.6(g)</u>) Food Stores >8,000 ft² cfa (mandatory §120.6(b)) Computer Rooms >20 W/ ft² Power Density (prescriptive §140.9(a))¹ Enclosed Parking Garage Exhaust >=10,000 cfm (mandatory §120.6(c)) Commercial Kitchen Ventilation/Exhaust (prescriptive <u>§140.9(b)</u>)¹ Newly Installed Process Boilers (mandatory §120.6(d)) Laboratory Exhaust/Factory Exhaust & Fume Hood (prescriptive §140.9(c))¹ Compressed Air Systems Combined HP >= 25 (mandatory <u>§120.6(e)</u>) ¹ FOOTNOTES: These building features can comply using the performance method. If using the performance method for these features, compliance should be demonstrated on the

This document demonstrates compliance for process systems that are within the scope of the permit application and are regulated by mandatory requirements in §120.6 or prescriptive

Registration Date/Time: **Registration Number:** CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 STATE OF CALIFORNIA Process Systems NRCC-PRC-E CERTIFICATE OF COMPLIANCE Server Room Upgrade Report Page: Date Prepared: Project Name: Project Address:

C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F through O. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below. 04 06 02 03 05 08 09 10

Refrigerated Parking Escalators & Computer Commercial Process Commercial Compressed Garage Exhaust §120.6(c) Warehouse/ Elevators Moving aboratory/Factor Boilers Air Systems Rooms Kitchens Refrigeration Space §120.6(a) Walkways <u>§140.9(a)</u> <u>§140.9(b)</u> (See Table O) <u>§120.6(f)</u> Exhaust §140.9(c) Compliance Results (See Table I) (See Table J) (See Table K) §120.6(g) §120.6(d) §120.6(e) §120.6(b) (See Table G) (See Table H) (See Table L) (See Table M) (See Table N) (See Table F) COMPLIES Yes 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. REFRIGERATED WAREHOUSES/SPACES This section does not apply to this project. G. COMMERCIAL REFRIGERATION This section does not apply to this project.

H. ENCLOSED PARKING GARAGE EXHAUST This section does not apply to this project. I. PROCESS BOILER This section does not apply to this project.

J. COMPRESSED AIR SYSTEMS This section does not apply to this project.

**Registration Number:** 

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003 Schema Version: rev 20200601

Registration Date/Time:

Registration Provider: Energy Code Ace Report Generated: 2021-08-26 15:32:30

CALIFORNIA ENERGY COMMISSION

Registration Provider: Energy Code Ace

Report Generated: 2021-08-26 15:32:30

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2021-08-26T18:32:29-04:00

NRCC-PRC-E

(Page 2 of 5)

NRCC-PRC-E

Registration Provider: Energy Code Ace Report Generated: 2021-08-26 15:32:30

CONDENSING UNIT SCHEDULE			
DESIGNATION			
NAME PLATE AMPS	5.7	5.7	
VOLTS/PHASE	208 / 3	208 / 3	
MOCP (AMPS)	15	15	
COOLING CAP (MBH)	95.5	95.5	
AMBIENT (°F)	105	105	
MANUFACTURER	LIEBERT	LIEBERT	
TYPE	AIR COOLED	AIR COOLED	
MODEL NUMBER	MCL055	MCL055	
SERVICE	FC-1	FC-2	
LOCATION	MECHANICAL YARD	MECHANICAL YARD	
OPER. WT (LBS)	378	378	
ACCESSORIES	1,2,3	1,2,3	

1. SITE GLASS

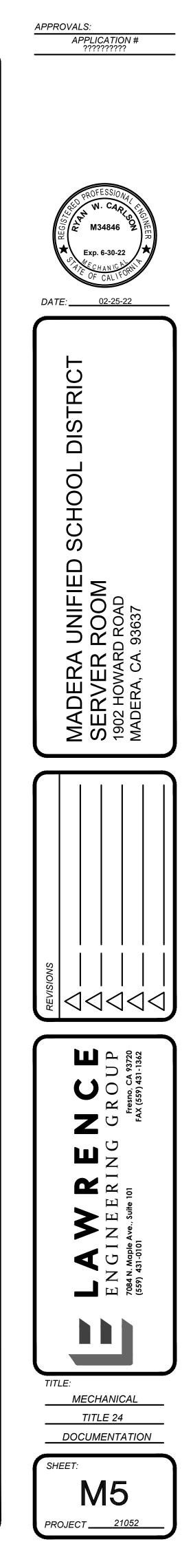
2. HEAD PRESSURE CONTROL VALVE, CHECK VALVE, ROTO-LOCK VALVE, PRESSURE RELIEF VALVE.

3. PROVIDE WITH HEATER PAD, 120/1Ø, 1.4A FLA, 15A MOP

FAN COIL SCHEDULE				
DESIGNATION			FC 2	
	SUPPLY AIR (CFM)	5,020	5,020	
	EXT. SP (IN WC)	0.0	0.0	
~	MIN. O.S.A. (CFM)	N/A	N/A	
BLOWER	NO. OF FANS	2	2	
ID 18	HP/BRAKE HP	1 / 0.87	1/0.87	
Ш	VOLTS/PHASE	208/3	208 / 3	
	FAN TYPE	CENTRIFUGAL	CENTRIFUGAL	
	SENSIBLE (MBH)	82.2	82.2	
ЪĽ	TOTAL (MBH)	86.0	86.0	
COOLING COIL	COIL ROWS	4	4	
NG N	FACE AREA (FT ² )	7.26	7.26	
100	EADB/EAWB (°F)	80 / 67	80 / 67	
ŭ	BRANCH SIZE (IN)	1/2 / 5/8	1/2 / 5/8	
	QTY/SIZE	(2) 32x18x4	(2) 32x18x4	
R	EFFICIENCY (%)	30	30	
FILTER	TYPE	MERV 8	MERV 8	
Ē	FINAL PD (IN WC)	0.1	0.1	
MANL	IFACTURER	LIEBERT	LIEBERT	
TYPE		IN-ROW	IN-ROW	
MODE	EL NUMBER	CR020	CR020	
LOCA		SERVER ROOM	SERVER ROOM	
OPER	. WT (LBS)	750	750	
ACCE	SSORIES	1, 2	1, 2	

1. PROVIDE WITH LOW-NOISE KIT.

2. PROVIDE WITH BACNET CARD FOR EMS INTEGRATION.



### **ABBREVIATIONS**

(	ABBREVIATIONS
A, AMP	AMPERES
A.C.	ABOVE COUNTER
A.F.F.	ABOVE FINISHED FLOOR
AL AMOX	ALUMINUM CONDUCTOR OR BUS AMMONIA OXIDATION CATALYST
BD	BOARD
С	CONDUIT
CAB CATV	CABINET CABLE TELEVISION
CATV	CIRCUIT BREAKER
СС	CENTER TO CENTER
CKT	
CO COPS	CONDUIT ONLY (EMPTY CONDUIT) WITH PULL WIRE CRITICAL OPERATIONS POWER SYSTEM (CEC 708)
CPB	COMMUNICATIONS PULL BOX
CU	COPPER CONDUCTOR OR BUS
DB DCOA	DISTRIBUTION PANEL DESIGNATED CRITICAL OPERATIONS AREA
DEF	DIESEL EXHAUST FLUID
DOC	DIESEL OXIDATION CATALYST
DPF (E)	DIESEL PARTICULATE FILTER EXISTING
ÊM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
E.O.L. EPO	END-OF-LINE EMERGENCY POWER-OFF
EWC	ELECTRIC WATER COOLER
F	
F.A./FA FACP	FIRE ALARM FIRE ALARM CONTROL PANEL
F.B.O.	FURNISHED BY OTHER/FURNISHED BY OWNER
FLA	FULL LOAD AMPS
FMC FS	FLEXIBLE METALLIC CONDUIT FLOW SWITCH
G	GREEN GROUND WIRE
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GND GRS	GROUND GALVANIZED RIGID STEEL
НС	HORIZONTAL CROSSCONNECT
HID HP	HIGH INTENSITY DISCHARGE HORSEPOWER
HPS	HIGH PRESSURE SODIUM
I.B.O.	INSTALLED BY OTHER
I.B.E. IDF	INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR INTERMEDIATE DISTRIBUTION FRAME (DATA)
IG	ISOLATED GROUND
INT	
J/JB KV	JUNCTION BOX KILOVOLTS
KVA	KILOVOLTS-AMPERES
KW	
LFMC LCP	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT LIGHTING CONTROL PANEL
LTG	LIGHTING
LV MCC	LOW VOLTAGE MOTOR CONTROL CENTER
MTD	MOUNTED
MTG	MOUNTING
MLO N	MAIN LUG ONLY NEUTRAL
(N)	NEW
ŇĹ	NIGHT LIGHT
	NOT IN CONTRACT NOT TO SCALE
	ON CENTER
OFOI	OWNER FURNISHED OWNER INSTALLED
Ø P	PHASE POLE
P.A./PA	PUBLIC ADDRESS SYSTEM
1.0	PULL BOX
PIV PNL	POST INDICATOR VALVE PANEL
PPB	POWER PULL BOX
REC/RECEPT. REF.	RECEPTACLE REFRIGERATOR
REF. RELO	RELOCATABLE BUILDING/ PORTABLE BUILDING
RM	ROOM
RS	
RU SCE	RACK UNIT SIGNAL CURRENT EXPANDER PANEL
SCR	SELECTIVE CATALYTIC REDUCTION
S.L.	SECURITY LIGHT SIGNAL AND COMMUNICATION TERMINAL BACKBOARD
SCTB SPB	SIGNAL AND COMMONICATION TERMINAL BACKBOARD
SPD	SURGE SUPPRESSION DEVICE
STB STC	SIGNAL TERMINAL BOARD SIGNAL TERMINAL CABINET
SW	SWITCH
TPB	TELEPHONE PULL BOX
TS TEL	TAMPER SWITCH TELEPHONE
TERM	TERMINAL
ТҮР	
TTB TTC	TELEPHONE TERMINAL BOARD TELEPHONE TERMINAL CABINET
U.C.	UNDER COUNTER
UG	
U.O.N. V	UNLESS OTHERWISE NOTED VOLTS/VOLTAGE
V.P.	VANDAL PROOF
W WP	WATTS WEATHERPROOF
WP WM	WIREMOLD

ALL WORK AND MATERIAL SHALL CONFORM TO INTENTION OF THESE PLANS AND SPECIFICATIO PROVIDE COMPLETE AND OPERATIVE SYSTEMS. MATERIAL, TRANSPORTATION, EQUIPMENT, MIS ACCOMPLISH THIS RESULT. ANYTHING WHICH IN NECESSARY PART OF THE INSTALLATION SHALL SPECIFICATIONS MAY BE CONSTRUED TO PERMI CONSTRUCTION CODES.
ALL EQUIPMENT SHALL HAVE AN APPROVED, N LABORATORY LABEL ATTACHED (REFER TO THE TESTING COMPANIES: https://www.osha.gov/dt OF TESTING LABELS REQUIRED WITH ALL SUBM RESPONSIBLE FOR ALL THESE REQUIREMENTS. ARCHITECT/ENGINEER PRIOR TO PURCHASING, THESE REQUIREMENTS. WHERE A FIELD CERTIF ASSEMBLED COMPONENT, PROVIDE CERTIFIED ACCEPTABLE TO THE AUTHORITIES HAVING JU
THE ENGINEERING SERVICE ARE LIMITED TO PRI THE PLANS AND SPECIFICATIONS ARE INTENDE ONLY AND NOT THE TOTAL INSTRUMENT OF CO INTENTION OF ANY CONSTRUCTION PLANS TO VERIFY SCOPE OF WORK WITH GENERAL CONTI SUPERVISING THE JOB. THE ENGINEER WILL PRO CONSTRUCTION DOCUMENTS, BUT SUPERVISIO OWNER OR HIS APPOINTEE.
WORKING CLEARANCE SHALL BE MAINTAINED EQUIPMENT, DISCONNECT SWITCH, ETC. LOCA REQUIREMENT SHALL ALSO BE OBSERVED. POV MAY VARY IN DIMENSION. THE CONTRACTOR S OF WORKING CLEARANCE REQUIREMENT WHE
CONTRACTOR SHALL HAVE THE EQUIPMENT SU RETAIN A THIRD PARTY TO PERFORM THE STUDI BE PLACED ON ALL NEW ELECTRICAL DISTRIBUT TRANSFORMERS, PANELS, PANELBOARDS, DISCO LABELS SHALL BE PER ANSI Z535.4 GUIDELINES. INCIDENT ENERGY AT DISTANCES FROM THE EC APPROPRIATE PERSONAL PROTECTION EQUIPM
THE CONTRACTOR SHALL VERIFY EXACT LOCAT ENTRANCES OF ALL EQUIPMENT AGAINST SHO OR PENETRATING EXTERIOR WALL(S) OF BUILD
IN CASE OF INTERFERENCE BETWEEN ELECTRIC, AND OTHER EQUIPMENT, THE CONTRACTOR SH BEFORE PROCEEDING.
ALL OUTDOOR DEVICES SHALL BE WEATHERPR
ONLY MAJOR PULL BOXES ARE SHOWN. CONT BOXES WHERE THEY ARE REQUIRED TO MAKE A ABOVE GROUND SHALL BE PAD LOCKABLE. AL HOLD DOWN BOLTS AND BE TRAFFIC RATED.

- MARK ALL PANELS WITH WHITE AG SYSTEM AND RED FACE FOR EMERGE POWER INTO THE NAMEPLATE WITH PANEL SCHEDULE AT ALL PANELS.
- CONTRACTOR SHALL FURNISH ALL MA NECESSARY TO COMPLETE INSTALLAT
- CONTRACTOR SHALL VERIFY ALL DIM SHOWN AND SHALL SUBMIT SHOP D
- . CAUTION SHOULD BE USED WHEN E UNDERGROUND CONDUITS. COORE SERVICE ALERT PRIOR TO EXCAVATIO
- THE CONTRACTOR SHALL BE RESPON HIMSELF AS TO THE CONDITIONS UN CONTRACTOR SHALL CHECK ALL OF SITE VISIT SHALL BE MADE PRIOR TO VISIT WITH THE OWNER/ARCHITECT.
- THE CONTRACTOR SHALL OBTAIN A 6. ALL PHASE CONDUCTORS SHALL HAV

ALLOWED.

- ISOLATED GROUNDING CONDUCTO TO MATCH THE EQUIPMENT GROUNI CONNECTED ONLY TO THE RECEPTAG GROUNDING SYSTEM AND GROUND PANEL OF CIRCUIT ORIGIN. THE ISOLA CONNECTED TO ANY OTHER GROUN
- . ALL EXTERIOR RECEPTACLES SHALL BE COVER.
- . PROVIDE AND INSTALL A PLAQUE AT AND BUILDING SERVICE DISCONNEC
- 0. ALL PROVIDE A LABEL ON THE MAIN AVAILABLE FAULT CURRENT AT THE
- ALL DISCONNECTS SHALL BE READILY CALIFORNIA ELECTRICAL CODE. IF TH WITHIN SIGHT OF THE EQUIPMENT SE LOCKED IN THE OPEN POSITION.
- 2. A LICENSED ELECTRICIAN SHALL BE P IS IN PROGRESS. AN ELECTRICAL CON SHALL ALSO BE CERTIFIED IF HE IS WO VIOLATION OF THIS REQUIREMENT B SHALL BE REPORTED TO THE STATE L EXISTING LABOR CODE SECTION 108.2 ON THIS PROJECT AND ALL CITY INSUR PERFORMING ANY WORK.
- ALL CONDUCTORS IN STALLED IN UN WET LOCATIONS AND MARKED WITH
- . ALL OUTDOOR ENCLOSURES SHALL SWITCHBOARDS, DISCONNECTS, ENCI **KEYED LOCKS. OUTDOOR PANELS SHA** standard.
- 5. THE CONTRACTOR SHALL COORDINA GENERATOR RENTAL TIME.
- 6. PROVIDE A WARNING SIGN PLACARD CONNECTIONS INDICATING THE FOLL

7. A GRAPHICAL SIGN OR GRAPHICAL P MSB INDICATING THE TYPE AND LOC

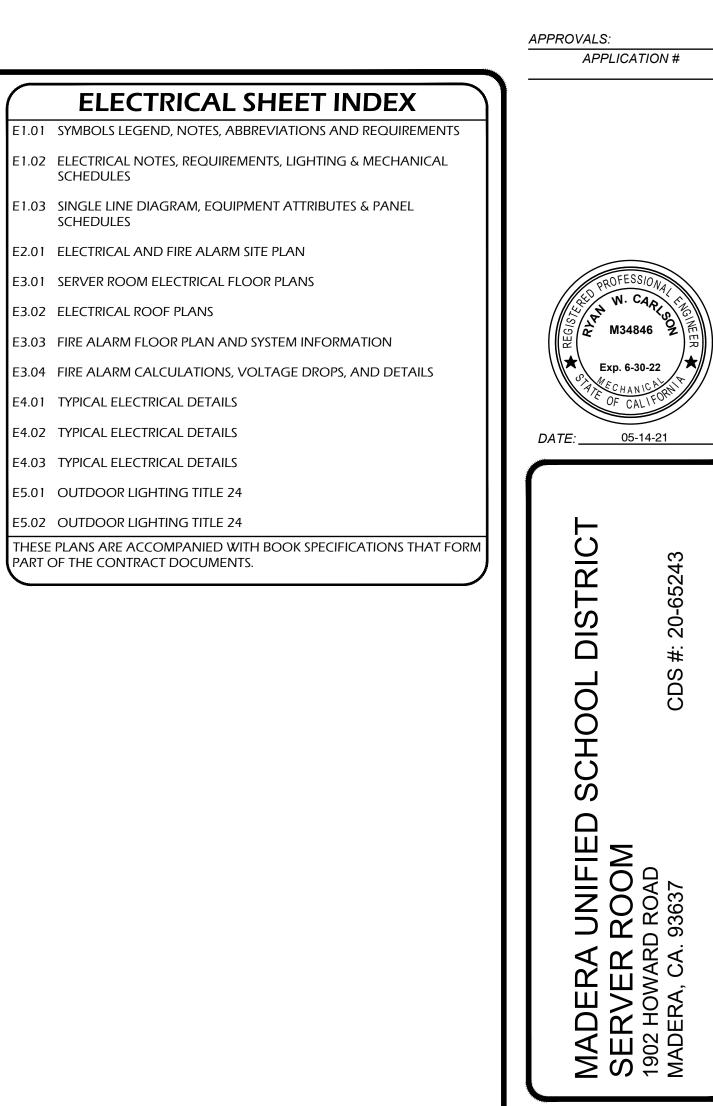
## GENERATO

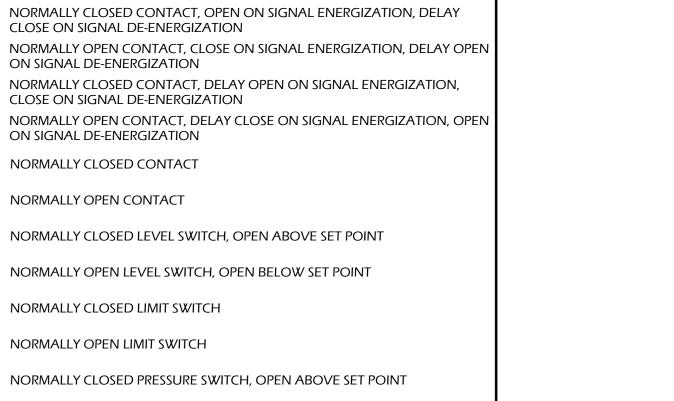
THESE PLANS INCLUDING ASSISTING THE SCHOOL DISTRICT WITH THE PURCHASING AND OBTAINING THE OPERATIONAL PERMIT FROM THE SAN JOAQUIN COUNTY VALLEY AIR THE PERMIT FEES.

GENERAL NOTES	$\bigcap$	STANDARD SY	MBO	L LEGEND
AL SHALL CONFORM TO LATEST CODES AND ORDINANCES. IT IS THE ANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO D OPERATIVE SYSTEMS. THE CONTRACTOR SHALL FURNISH LABOR, TION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC. REQUIRED TO T. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A TINSTALLATION SHALL BE INCLUDED. NOTHING IN THESE PLANS OR	\$ª \$2 \$3 \$4	SPST TOGGLE WALL SWITCH - 20A, 120/277V, `a' INDICATES CONTROL DPST TOGGLE WALL SWITCH - 20A, 120/277V 3-WAY TOGGLE WALL SWITCH - 20A, 120/277V 4-WAY TOGGLE WALL SWITCH - 20A, 120/277V		SURGE SUPPRESSION DEVICE PROVIDE AND INSTALL JUNCTION BOX AND SURVEILLANCE CAMERA; REFER TO SPECIFICATIONS AND ELECTRICAL DETAILS. RUN 1" CONDUIT AND CAT-6a
CONSTRUED TO PERMIT WORK NOT CONFORMING TO ANY IAVE AN APPROVED, NATIONALLY RECOGNIZED TESTING ACHED (REFER TO THE FOLLOWING WEBSITE FOR APPROVED ps://www.osha.gov/dts/otpca/nrtl/its.html) AS PER N.E.C. 110. PROOF JIRED WITH ALL SUBMITTALS. THE CONTRACTOR SHALL BE	₽⁴ \$м \$ĸ \$т	4-WAY TOGGLE WALL SWITCH - 20A, 120/277V SPDT MOMENTARY CONTACT TOGGLE SWITCH - 20A, 120/277V SPST KEYED SWITCH - 20A, 120/277V THERMAL RATED SNAP SWITCH FOR CONTROLLING FRACTIONAL HORSEPOWER MOTORS.		CABLE TO NEAREST IDF OR MDF. MAKE ALL CONNECTIONS FOR A FULLY FUNCTIONAL SYSTEM. INTRUSION ALARM DOOR CONTACT PROVISION, SEE TYPICAL DETAILS. INTRUSION ALARM KEYPAD INTRUSION ALARM MOTION DETECTOR, AIM AS INDICATED ON PLANS.
IESE REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE RIOR TO PURCHASING, IF ANY OF THE SPECIFIED MATERIAL FAILED WHERE A FIELD CERTIFIED PRODUCT MAY BE REQUIRED FOR FIELD T, PROVIDE CERTIFIED REPORT BY AN APPROVED TESTING AGENCY THORITIES HAVING JURISDICTION. INCLUDE ALL TESTING FEES IN BID. CE ARE LIMITED TO PREPARATION OF PLANS AND SPECIFICATIONS.	୍ <u>ତ</u> ହ ା ସ କ	CEILING OR WALL MOUNTED JUNCTION BOX PULLBOX(S) - SIZE AND NUMBER AS INDICATED SINGLE RECEPTACLE - 20A, 120V & GROUND RECEPTACLE, DUPLEX - 20A, 120V & GROUND		CIRCUIT INTERCONNECTION GROUND CIRCUIT BREAKER - EXAMPLE SHOWS A 100A/3P, TRIP CURVE C CIRCUIT
ATIONS ARE INTENDED TO BE USED AS CONSTRUCTION GUIDELINES AL INSTRUMENT OF CONTRACT DOCUMENTS. IT IS NOT THE STRUCTION PLANS TO DIVIDE WORK AMONG DIFFERENT TRADES. WITH GENERAL CONTRACTOR/OWNER SINCE THE ENGINEER IS NOT HE ENGINEER WILL PROVIDE INTERPRETATION OF THE ENTS, BUT SUPERVISION IS UNDER THE RESPONSIBILITY OF THE EE. HALL BE MAINTAINED AS PER C.E.C/N.E.C. FOR ALL PANEL(S), SERVICE T SWITCH, ETC. LOCAL UTILITY COMPANY WORKING CLEARANCE SO BE OBSERVED. POWER EQUIPMENT MANUFACTURER'S PRODUCT M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION THE REQUIREMENT WHEN LAYING OUT THE ELECTRICAL EQUIPMENT. VE THE EQUIPMENT SUPPLIER PROVIDE THE ARC FAULT STUDIES OR O PERFORM THE STUDIES. THE ARC FLASH WARNING LABELS SHALL ELECTRICAL DISTRIBUTION BOARDS, MAIN SWITCHBOARDS, , PANELBOARDS, DISCONNECTS, MCC'S ETC. PER CEC/NEC 110.16.		RECEPTACLE, DUPLEX CEILING MOUNTED RECEPTACLE, DUPLEX - WITH ONE-HALF SWITCHED/CONTROLLED RECEPTACLE, DUPLEX - WITH GFCI PROTECTION IN WEATHERPROOF HOUSING RECEPTACLE, DUPLEX- WITH GFCI PROTECTION RECEPTACLE, 50A, 3-WIRE, 250V RECEPTACLE, DOUBLE DUPLEX - (2) 20A, 120V & GROUND RECEPTACLE, DOUBLE DUPLEX CEILING MOUNTED RECEPTACLE, DOUBLE DUPLEX WITH GFCI PROTECTION RECEPTACLE, DOUBLE DUPLEX WITH GFCI PROTECTION RECEPTACLE, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED.	ST   	BREAKER SHUNT TRIP EXISTING ABOVE GROUND CONDUIT EXISTING UNDERGROUND CONDUIT PROPERTY LINE EXISTING METAL WIRE WAY, MOUNTED ON WALL 48-INCHES ABOVE
ISI Z535.4 GUIDELINES. THE LABEL SHALL LIST A MAXIMUM ARC FLASH STANCES FROM THE EQUIPMENT FOR THE SYSTEM VOLTAGE AND THE PROTECTION EQUIPMENT REQUIRED. L VERIFY EXACT LOCATION OF TERMINAL BOXES AND CONDUIT IPMENT AGAINST SHOP DRAWINGS BEFORE STUBBING UP CONDUITS OR WALL(S) OF BUILDING(S). CE BETWEEN ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING	© ©©⊙ ⊥ ∑	DATA OUTLET, FLUSH FLOOR BOX - CARPET PLATE WHERE REQUIRED. FLUSH, FLOOR MOUNTED DUPLEX RECEPTACLE, DATA JACK, AND TELEPHONE JACK. TELEPHONE OUTLET: PROVIDE & INSTALL 2-GANG BOX WITH 1" CONDUIT. STUB-UP INTO T-BAR CEILING. FOR HARD CEILINGS, RUN THE CONDUIT TO THE CABLE TERMINATION LOCATION INDICATED PER THE RISER DIAGRAM. DATA OUTLET: PROVIDE & INSTALL 2-GANG BOX WITH 1" CONDUIT. STUB-UP INTO T-BAR CEILING. FOR HARD CEILINGS, RUN THE CONDUIT TO THE CABLE		<ul> <li>EXISTING ELECTRICAL EQUIPMENT TO REMAIN</li> <li>EXISTING ELECTRICAL EQUIPMENT TO BE DEMOLISHED</li> <li>SHEET NOTE NUMBER - #, SEE NOTE DESCRIPTION ON SAME SHEET.</li> <li>GENERAL NOTE NUMBER - #, SEE NOTE DESCRIPTION ON SAME SHEET.</li> <li>REFERENCE TO PLAN/DETAIL/DIAGRAM</li> </ul>
SHALL BE WEATHERPROOF. S ARE SHOWN. CONTRACTOR SHALL PROVIDE ADDITIONAL PULL REQUIRED TO MAKE A WORKABLE INSTALLATION. ALL PULL BOXES BE PAD LOCKABLE. ALL PULL BOXES UNDERGROUND SHALL HAVE D BE TRAFFIC RATED. WHITE ACRYLIC NAMEPLATES WITH BLACK FACE FOR NORMAL OR EMERGENCY SYSTEM. ENGRAVE THE NAME AND SOURCE OF IN ATE WITH D. (10)	(5) ₩₩ ₩ ₩ ₩ ₩	TERMINATION LOCATION INDICATED PER THE RISER DIAGRAM. NUMBER IN PARENTHESIS INDICATES QUANTITY OF DEVICES. TYPICAL FOR ALL TYPES OF DEVICES. TRANSFORMER FUSED DISCONNECT - MOTOR RATED. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SWITCHES TO BE FURNISHED WITH DUAL ELEMENT FUSES SIZED ACCORDING TO NAME PLATE DATA ON EQUIPMENT	<ul> <li>X Y</li> <li>▲</li> <li>▲</li> <li>●</li> <li>●<td>DESIGNATES SIZE (X) AND QUANTITY (Y) OF FEEDERS, SEE FEEDER SCHEDULE ADDENDUM OR REVISION NUMBER, SEE DESCRIPTION ON SAME SHEET. RELAY COIL TIME DELAY RELAY COIL</td></li></ul>	DESIGNATES SIZE (X) AND QUANTITY (Y) OF FEEDERS, SEE FEEDER SCHEDULE ADDENDUM OR REVISION NUMBER, SEE DESCRIPTION ON SAME SHEET. RELAY COIL TIME DELAY RELAY COIL
PLATE WITH 3/16" MINIMUM ARIAL FONT. PROVIDE TYPE WRITTEN PANELS. RNISH ALL MATERIALS, TOOLS, LABOR, EQUIPMENT AND SUPERVISION E INSTALLATION, CHECKOUT AND INITIAL OPERATION. RIFY ALL DIMENSIONS AND GENERAL ARRANGEMENT OF EQUIPMENT MIT SHOP DRAWINGS FOR ALL EQUIPMENT PRIOR TO PURCHASE.		INSTALLED. UNFUSED DISCONNECT - MOTOR RATED, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. VARIABLE FREQUENCY DRIVE: FURNISHED, INSTALLED, AND CONNECTED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. 5% LINE OR LOAD REACTOR	• □ • • • • • • • • •	LATCHING RELAY COIL LATCH INPUT LATCHING RELAY COIL UNLATCH INPUT NORMALLY CLOSED CONTACT, OPEN ON SIGNAL ENERGIZATION, DELAY CLOSE ON SIGNAL DE-ENERGIZATION NORMALLY OPEN CONTACT, CLOSE ON SIGNAL ENERGIZATION, DELAY OPEN
ED WHEN EXCAVATING OR TRENCHING TO LOCATE EXISTING IITS. COORDINATE WITH AGENCIES SUCH AS UNDERGROUND EXCAVATION. L BE RESPONSIBLE FOR HAVING VISITED THE SITE AND SATISFIED DITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE ECK ALL OF THE CONDITIONS WHICH MAY AFFECT HIS WORK. THE E PRIOR TO SUBMITTING THE BID. BIDDERS SHALL PREARRANGE A SITE ARCHITECT.		DV/DT FILTER MAGNETIC MOTOR STARTER FURNISHED, INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. MOTOR - FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR. GROUND ROD - 3/4" DIAMETER x 10-FEET LONG COPPER CLAD	אייר איי אייר אייר אייר אייר אייר אייר א	ON SIGNAL DE-ENERGIZATION NORMALLY CLOSED CONTACT, DELAY OPEN ON SIGNAL ENERGIZATION, CLOSE ON SIGNAL DE-ENERGIZATION NORMALLY OPEN CONTACT, DELAY CLOSE ON SIGNAL ENERGIZATION, OPEN ON SIGNAL DE-ENERGIZATION NORMALLY CLOSED CONTACT
L OBTAIN A FULL SET OF PLANS WHEN BIDDING THE JOB. S SHALL HAVE THEIR OWN NEUTRALS. NO SHARING OF NEUTRALS CONDUCTORS WHERE INDICATED FOR RECEPTACLES SHALL BE SIZED ENT GROUNDING CONDUCTOR SIZE AND INSTALLED AND		TERMINAL CABINET - SURFACE OR FLUSH MOUNTED WITH FLAME RETARDANT PLYWOOD BACKBOARD PANELBOARD - SURFACE OR FLUSH MOUNTED DISTRIBUTION OR SWITCHBOARD NEUTRAL LINK	<b>२</b> २२ भारु	NORMALLY OPEN CONTACT NORMALLY CLOSED LEVEL SWITCH, OPEN ABOVE SET POINT NORMALLY OPEN LEVEL SWITCH, OPEN BELOW SET POINT
HE RECEPTACLES REQUIRED TO BE CONNECTED TO THE ISOLATED ID GROUNDED AT THE MAIN GROUNDING BUS WITHIN THE THE N. THE ISOLATED GROUNDING CONDUCTOR SHALL NOT BE HER GROUNDING SYSTEM ALONG IT'S PATH. LES SHALL BE GFCI TYPE WITH A LOCKING, WEATHERPROOF IN-USE		TRANSFORMER GROUND WIRE WITH GREEN INSULATION SIZE PER N.E.C., U.O.N. CONDUIT CONCEALED IN WALL OR CEILINGS. PROVIDE NUMBER OF WIRES	6	NORMALLY CLOSED LIMIT SWITCH
PLAQUE AT EACH MAIN SWITCHBOARD DISCONNECTING MEANS DISCONNECTING MEANS PER NEC 225.37. N THE MAIN ELECTRICAL SERVICE EQUIPMENT INDICATING THE ENT AT THE SERVICE. L BE READILY ACCESSIBLE AND IN SIGHT OF THE EQUIPMENT, PER CODE. IF THE DISCONNECTING MEANS CANNOT BE LOCATED	 	NECESSARY FOR BRANCH CIRCUIT, SWITCH LEGS, ETC. PROVIDE SEPARATE NEUTRALS FOR EACH PHASE WIRE. SIZE SHALL BE DETERMINED BY OCPD CONNECTED TO THE PHASE CONDUCTORS AND VOLTAGE DROP CONSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND CONDUCTOR(S). SIZE CONDUIT PER NEC. CONDUIT CONCEALED IN WALL OR CEILINGS. PROVIDE NUMBER OF WIRES NECESSARY FOR BRANCH CIRCUIT, SWITCH LEGS, ETC. PROVIDE SEPARATE NEUTRALS FOR EACH PHASE WIRE. SIZE SHALL BE DETERMINED BY OCPD	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	NORMALLY CLOSED PRESSURE SWITCH, OPEN ABOVE SET POINT NORMALLY OPEN PRESSURE SWITCH, CLOSE ABOVE SET POINT NORMALLY CLOSED TEMPERATURE SWITCH, OPEN ABOVE SET POINT NORMALLY OPEN TEMPERATURE SWITCH, CLOSE ABOVE SET POINT
DUIPMENT SERVED, IT SHALL HAVE THE CAPABILITY OF BEING DIFFERENTIAL PROJECT WHENEVER ELECTRICAL WORK TRICAL CONTRACTOR IS NOT EXEMPT FROM THIS REQUIREMENT AND DIFFE IS WORKING AS THE RESPONSIBLE PROJECT ELECTRICIAN. UIREMENT BY EITHER ELECTRICIANS OR WORKING CONTRACTORS THE STATE LICENSE CONTRACTOR BOARD AS REQUIRED UNDER THE ECTION 108.2. NO VOLUNTEERS ARE ALLOWED TO PERFORM WORK LL CITY INSURANCE REQUIREMENTS MUST BE MET PRIOR TO	#10	CONNECTED TO THE PHASE CONDUCTORS AND VOLTAGE DROP CONSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND CONDUCTOR(S). SIZE CONDUIT PER NEC. HASH MARKS INDICATE THE NUMBER OF CONDUCTORS AND THE ADJACENT NUMBER INDICATES CONDUCTOR SIZE. CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR, MINIMUM SIZE IS 3/4". PROVIDE NUMBER OF WIRES NECESSARY FOR BRANCH CIRCUIT, SWITCH LEGS, ETC. PROVIDE SEPARATE NEUTRALS FOR EACH PHASE WIRE. SIZE SHALL BE DETERMINED BY OCPD CONNECTED TO THE PHASE CONDUCTORS AND VOLTAGE DROP CONSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND	- ਿ ੈ⊡-ਹੀ ਦ⊖ਮ	NORMALLY CLOSED MOISTURE SWITCH, OPEN ABOVE SET POINT NORMALLY OPEN MOISTURE SWITCH, CLOSE ABOVE SET POINT NORMALLY CLOSED, MOMENTARY PUSHBUTTON MOMENTARY CONTACT MUSHROOM HEAD PUSHBUTTON WITH ONE NORMALLY OPEN AND ONE NORMALLY CLOSED CONTACT
ALLED IN UNDERGROUND OR WET LOCATIONS SHALL BE LISTED FOR ARKED WITH "W" PER CEC. JRES SHALL HAVE LOCKING HASP. INCLUDING, BUT NOT LIMITED TO INECTS, ENCLOSURES, ETC. THE CITY WILL PROVIDE THEIR OWN R PANELS SHALL HAVE KEYED LOCKING MECHANISM KEYED PER CITY L COORDINATE THE WORK TO MINIMIZE THE TEMPORARY IE.	<b>₩</b>	CONDUCTOR(S). SIZE CONDUIT PER NEC. CONDUIT UNDERGROUND OR BELOW FLOOR, MINIMUM SIZE IS 3/4". PROVIDE NUMBER OF WIRES NECESSARY FOR BRANCH CIRCUIT, SWITCH LEGS, ETC. PROVIDE SEPARATE NEUTRALS FOR EACH PHASE WIRE. SIZE SHALL BE DETERMINED BY OCPD CONNECTED TO THE PHASE CONDUCTORS AND VOLTAGE DROP CONSIDERATIONS. ALL CONDUITS SHALL HAVE GROUND CONDUCTOR(S). SIZE CONDUIT PER NEC. HASH MARKS INDICATE THE NUMBER OF CONDUCTORS AND THE ADJACENT NUMBER INDICATES CONDUCTOR SIZE. CONDUIT- UP		SELECTOR SWITCH (SHOWN WITH 3 POSITIONS AND 1 CONTACT FOR EACH POSITION), M = MAINTAINED, S = SPRING RETURN PILOT LIGHT: A = AMBER, B = BLUE, G = GREEN, R = RED, W = WHITE, Y =
SN PLACARD AT ALL TEMPORARY GENERATOR POINTS OF NG THE FOLLOWING INFORMATION WHETHER : WARNING FOR CONNECTION OF SEPARATELY DERIVED (BONDED NEUTRAL) SYSTEMS ONLY OR		CONDUIT- UP CONDUIT-DOWN METER PORTABLE GENERATOR INTERCONNECTION MOMENTARY CONTACT MUSHROOM HEAD PUSHBUTTON WITH ONE NORMALLY OPEN AND ONE NORMALLY CLOSED CONTACT		YELLOW PUMP ARC FLASH RELAY
WARNING FOR CONNECTION OF NON-SEPARATELY DERIVED (FLOATING NEUTRAL) SYSTEM ONLY RAPHICAL PLACARD SHALL BE LOCATED AT THE SERVICE ENTRANCE PE AND LOCATION OF EACH ON-SITE GENERATOR		THERMOSTAT PROBE		
ERATOR PERMIT NOTICE				

THE CONTRACTOR SHALL PURCHASE AND INSTALL THE GENERATOR AS INDICATED WITHIN POLLUTION CONTROL DISTRICT. THE SCHOOL DISTRICT TO REIMBURSE THE CONTRACTOR FOR

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SCHEDULES

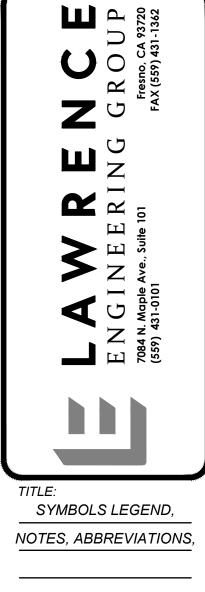
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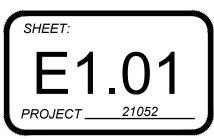
E3.02 ELECTRICAL ROOF PLANS

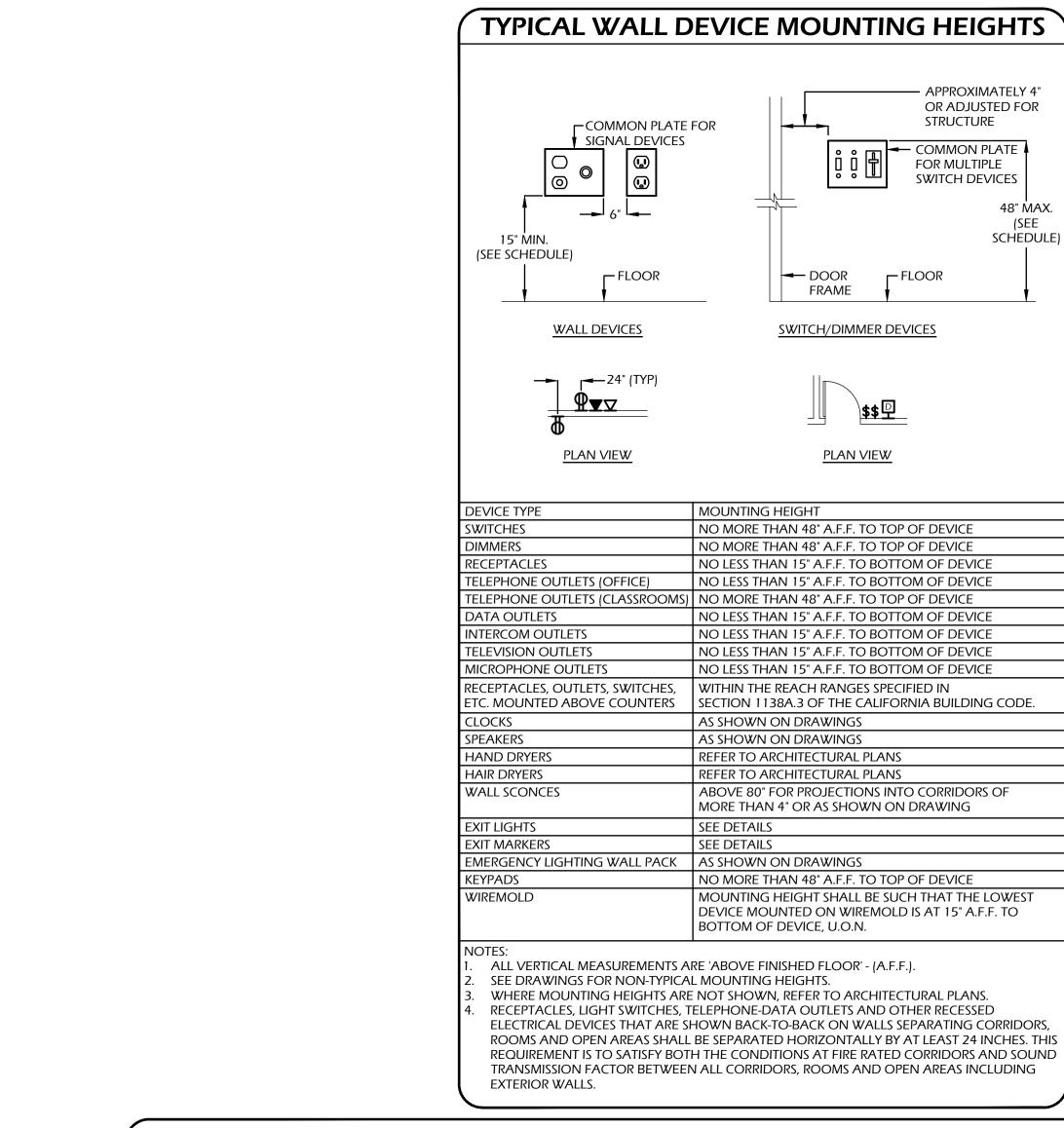
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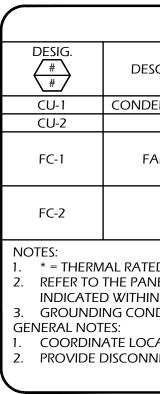
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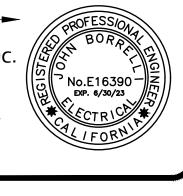


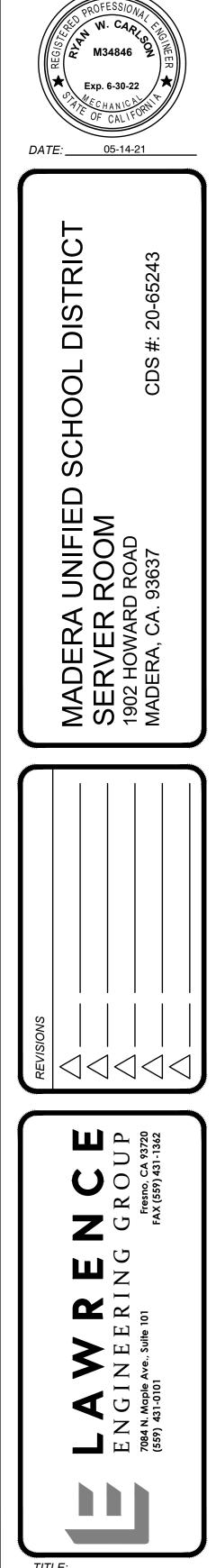
Ĺ	TYPICAL WALL DEVICE MOUNTING H		ARNING LABEL REQU		( ELECTRICAL EQUIPMENT BRACING NOTES )	CONCRETE SAMPLING NOTE
		DXIMATELY 4" DJUSTED FOR	DANGER	D ALL NEW EQUIPMENT	ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC SECTIONS 1616A AND ASCE 7-10 CHAPTERS 13, 26, AND 30. 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.	ALL CONCRETE POURS SHALL HAVE A MINIMUM OF FIVE CYLINDRICAL SAMPLES TAKEN AND REPORT OF THE POURED IN PLACE CONCRETE SHALL BE PROVIDED TO THE ENGINEER AND TO THE CITY FOR RECORDS. THE CONCRETE STRENGTH SHALL MEET OR EXCEED THE STRENGTH REQUIREMENTS AS INDICATED ON THE APPROVED PLANS.
	SIGNAL DEVICES		Will cause severe injury or death.		<ol> <li>TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.</li> <li>MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.</li> </ol>	DEMOLITION NOTES           1. THE DEMOLITION PLANS GENERALLY SHOW ALL EXISTING EQUIPMENT TO BE REMOVED.
	15" MIN. (SEE SCHEDULE)	(SEE SCHEDULE)	Turn OFF ALL power before opening. Follow ALL requirements in NFPA 70E for safe work practices and for Persona	al	THE ATTACHMENT OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS	<ol> <li>EXISTING CONDUITS IN WALLS TO BE REMOVED SHALL BE CUT AND CAPPED FLUSH WITH FLOOR AND/OR CEILING. REMOVE CONDUCTORS BACK TO LAST DEVICE ON CIRCUIT REMAINING. INSTALL PULL ROPE.</li> <li>THE CONTRACTOR SHALL IDENTIFY LOCATIONS OF ALL CAPPED CONDUITS, WHETHER CUT</li> </ol>
			Protective Equipment.		LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.	AND CAPPED AS PART OF THIS PROJECT OR A PREVIOUS PROJECT, ON ALL THE RECORD DRAWINGS.
	WALL DEVICES SWITCH/DIMMER DEVICES	NEW AND EXISTING ELECT	RD WARNING LABELS SHALL BE FIELD MARI RICAL DISTRIBUTION BOARDS, SWITCHBOAR SCONNECTS, & MOTOR CONTROL CENTERS	RDS, TRANSFORMERS,	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	<ol> <li>IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ELECTRICAL SERVICE TO ALL DEVICES DOWNSTREAM OF A DEVICE ABANDONED.</li> </ol>
		WHERE NEW CONNECTION 110.21(B) AND ANSI Z535.4	R CEC 110.16. LABELS SHALL BE APPLIED TO IS ARE MADE. THE LABELS SHALL MEET THE -2011 GUIDELINES BY USING EFFECTIVE CO	REQUIREMENTS OF	FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL	<ol> <li>ALL ELECTRICAL DEVICES REMOVED THAT WILL NOT BE RELOCATED OR REPLACED SHALL HAVE ALL CONDUIT, CONDUCTORS, ETC. REMOVED BACK TO LAST DEVICE.</li> <li>RELABEL ALL CIRCUITS THAT HAVE ALL LOADS REMOVED AS SPARE.</li> </ol>
	PLAN VIEW PLAN VIEW	COMBINATION THEREOF.		<u>S ONLY</u>	COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.	7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT. THE CONTRACTOR SHALL RETURN TO THE OWNER, IN THE AS-FOUND CONDITION, ANY EQUIPMENT THE OWNER REQUESTS BE RETURNED TO THE OWNER.
VZ	DEVICE TYPEMOUNTING HEIGHTWITCHESNO MORE THAN 48" A.F.F. TO TOP OF DEVIDIMMERSNO MORE THAN 48" A.F.F. TO TOP OF DEVID		Arc Flash and Shock Hazard		<b>ELECTRICAL EQUIPMENT NOTES</b> 1. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL	<ol> <li>EXISTING CONDUIT MAY BE REUSED ONLY IF IT IS OF ADEQUATE SIZE AND IN GOOD CONDITION.</li> </ol>
RE TE	ECEPTACLESNO LESS THAN 15" A.F.F. TO BOTTOM OF DELEPHONE OUTLETS (OFFICE)NO LESS THAN 15" A.F.F. TO BOTTOM OF D	EVICE Arc Flash Bou Restricted Approach Limited Approach	ich PPE Hazard Category		ARRANGEMENT OF ELECTRICAL EQUIPMENT, DEVICES AND WIRING. SEE SECTION 260000 OF THE SPECIFICATIONS.	9. IF EXISTING EQUIPMENT REQUIRES RELOCATION, THE CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS OPERABLE, CONNECTED, AND DOES NOT POSE A HAZARD WHEN RELOCATED.
D, IN	ELEPHONE OUTLETS (CLASSROOMS)NO MORE THAN 48" A.F.F. TO TOP OF DEVIDATA OUTLETSNO LESS THAN 15" A.F.F. TO BOTTOM OF DNTERCOM OUTLETSNO LESS THAN 15" A.F.F. TO BOTTOM OF D	EVICE Display the set of the set	Jacket D Safety glasses D	twear	2. FOR THE EXACT LOCATION OF ELECTRICAL EQUIPMENT AND DEVICES SEE THE ARCHITECTURAL ELEVATIONS, DETAILS AND DIMENSIONS SHOWN ON THE DRAWINGS.	10. PATCH TO MATCH SURROUNDING SURFACE ANY HOLES CREATED BY REMOVING ANY EQUIPMENT, CONDUITS, ETC.
M RE ET	ELEVISION OUTLETSNO LESS THAN 15" A.F.F. TO BOTTOM OF DMICROPHONE OUTLETSNO LESS THAN 15" A.F.F. TO BOTTOM OF DECEPTACLES, OUTLETS, SWITCHES, TC. MOUNTED ABOVE COUNTERSWITHIN THE REACH RANGES SPECIFIED IN SECTION 1138A.3 OF THE CALIFORNIA BUILCLOCKSAS SHOWN ON DRAWINGS	EVICE     Pants       EVICE     Equipment ID       DING CODE.     1. ARC FLASH HAZARD WARN       DISTRIBUTION SYSTEMS SHA	Rainwear	PONENTS OF THE	<b>ELECTRICAL DUCTWORK ANCHORING NOTES</b> DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10	11. PANELS OR TERMINAL CABINETS IN WALLS TO BE REMOVED SHALL REMAIN OPERATIVE UNTIL ALL DEVICES FED FROM THE PANEL OR TC ARE REMOVED (IF APPLICABLE) OR NEW LOCATION FOR PANEL OR TC IS READY TO RECEIVED PANEL OR TC. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING TO SUPPORT PANEL OR TC. CHECK WITH ENGINEER FOR APPROVAL OF SUPPORTS. THE CONTRACTOR SHALL RELOCATE ALL DEVICES SERVED BY THE PANEL OR TC TO ANOTHER PANEL OR TC.
SF H, H,	PEAKERSAS SHOWN ON DRAWINGSIAND DRYERSREFER TO ARCHITECTURAL PLANSIAIR DRYERSREFER TO ARCHITECTURAL PLANSVALL SCONCESABOVE 80" FOR PROJECTIONS INTO CORRI	FOLLOWING INFORMATION 1.1. NOMINAL SYSTEM VOL 1.2. ARC FLASH BOUNDAR 1.3. MINIMAL ARC RATING	N: TAGE Y OF CLOTHING		SECTIONS 13.6.5.6, 13.6.7, AND 13.6.8, AND 2016 CBC SECTIONS 1616A.1.23 THROUGH 1616A.1.26. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ON OF THE OSHPD PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.	<ol> <li>MAINTAIN CIRCUITS FEEDING DEVICES OUTSIDE OF BOUNDARIES OF CURRENT DEMOLITION PHASE DURING DEMOLITION FOR EACH PHASE OF DEMOLITION.</li> </ol>
	MORE THAN 4" OR AS SHOWN ON DRAWIN       XIT LIGHTS     SEE DETAILS       XIT MARKERS     SEE DETAILS	G 1.4.1. INCIDENT ENERGY 1.4.2. THE ARC FLASH PF	& CORRESPONDING WORKING DISTANCE	ANSI Z535.4-2011	COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.	TRENCHING AND EXCAVATION NOTES
EN KE	MERGENCY LIGHTING WALL PACK       AS SHOWN ON DRAWINGS         EYPADS       NO MORE THAN 48" A.F.F. TO TOP OF DEVI         VIREMOLD       MOUNTING HEIGHT SHALL BE SUCH THAT         DEVICE MOUNTED ON WIREMOLD IS AT 15	CE3.THE CONTRACTOR SHALL H LABELING OR OBTAIN THE RECORD.	ECTIVE COLORS, SYMBOLS OR ANY COMBIN, HAVE THE EQUIPMENT MANUFACTURER PR SERVICES OF A THIRD PARTY OR THE ELECT	OVIDE THE REQUIRED	THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.	1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CALL UNDERGROUND SERVICE ALERT "USA" BEFORE THE COMMENCEMENT OF ANY EXCAVATION. EACH CONTRACTOR SHALL HAVE THEIR OWN USA TICKET NUMBER FOR EACH PROJECT LOCATION AND SHALL NOT RIDE ON ANY OTHER CONTRACTORS TICKET. CONTRACTOR SHALL NOTIFY THE OWNER 72 HOURS PRIOR TO EXCAVATION.
N( 1.	IOTES: ALL VERTICAL MEASUREMENTS ARE 'ABOVE FINISHED FLOOR' - (A.F.F.).		CONDITION 3: NEW SERVICES	CED ON ALL NEW	HILTI KWIK BOLT TZ NOTES	2. THIS CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF EQUIPMENT AND MATERIALS. ALL PATCHING SHALL ACCURATELY MATCH
2. 3. 4.	<ul> <li>SEE DRAWINGS FOR NON-TYPICAL MOUNTING HEIGHTS.</li> <li>WHERE MOUNTING HEIGHTS ARE NOT SHOWN, REFER TO ARCHITECTURAL PL</li> <li>RECEPTACLES, LIGHT SWITCHES, TELEPHONE-DATA OUTLETS AND OTHER RECELECTRICAL DEVICES THAT ARE SHOWN BACK-TO-BACK ON WALLS SEPARATIL</li> <li>ROOMS AND OPEN AREAS SHALL BE SEPARATED HORIZONTALLY BY AT LEAST</li> </ul>	ANS. ESSED IG CORRIDORS, 1.1. NOMINAL SYSTEM VOL 1.2. AVAILABLE FAULT CUR 1.3. CLEARING TIME OF THI	THE FOLLOWING INFORMATION. TAGE RRENT AT THE SERVICE OVERCURRENT PROT E SERVICE OVERCURRENT PROTECTIVE DEV RRENT AT THE SERVICE EQUIPMENT		<ol> <li>EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ AS MANUFACTURED BY HILTI, INC., 5400 SOUTH 122ND EAST AVENUE, TULSA, OKLAHOMA 74146. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND I.C.C. REPORT NO. ESR-1917.</li> </ol>	<ul> <li>THE ADJOINING WORK.</li> <li>3. THIS CONTRACTOR SHALL DO EXCAVATING REQUIRED FOR THE INSTALLATION OF THE WORK. UNDERGROUND LINES OUTSIDE THE BUILDINGS SHALL BE INSTALLED WITH A MINIMUM OF 24" OF COVER, EXCEPT DEPTH OF UTILITY SERVICES SHALL COMPLY WITH RESPECTIVE UTILITY</li> </ul>
	REQUIREMENT IS TO SATISFY BOTH THE CONDITIONS AT FIRE RATED CORRIDO TRANSMISSION FACTOR BETWEEN ALL CORRIDORS, ROOMS AND OPEN AREA EXTERIOR WALLS.	RS AND SOUND 1.4. THE DATE THE LABEL V	WAS APPLIED HE REQUIREMENTS OF CEC 110.21(B) AND A ECTIVE COLORS, SYMBOLS OR ANY COMBIN,		<ul> <li>2. ULTIMATE TENSION VALUES SHALL BE AS FOLLOWS:</li> <li>2.1. FOR 3/8" DIAMETER BOLTS:</li> <li>2.1.1. MINIMUM EMBEDMENT: 2"</li> <li>2.1.2. MINIMUM DISTANCE FROM EDGE: 4-1/2"</li> </ul>	<ul><li>COMPANY REQUIREMENTS.</li><li>4. BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF</li></ul>
	LIGHTING FIXTURE	SCHEDULE			2.1.3.SPACING: 5"2.1.4.MINIMUM CONCRETE THICKNESS: 4"2.1.5.TENSION LOAD: 1600 POUNDS2.1.6.TORQUE TEST: 25 POUND-FEET2.1.6.TORQUE TEST: 25 POUND-FEET	MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE.
	URER AND MODEL LAMPS	REMARKS		WATTS LBS	<ul> <li>2.2. FOR 1/2" DIAMETER BOLTS:</li> <li>2.2.1. MINIMUM EMBEDMENT: 3-1/4"</li> <li>2.2.2. MINIMUM DISTANCE FROM EDGE: 6"</li> <li>2.2.3. SPACING: 6"</li> </ul>	<ol> <li>STRUCTURES, BUILDING SLABS, WALKWAYS, AND STEPS: COMPACT TOP 6" OF SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95% MAXIMUM RELATIVE COMPACTION.</li> <li>COMPACT TOP 6" OF SUBGRADE MATERIAL AT 85% RELATIVE COMPACTION.</li> </ol>
E GARDCO LIGHTING OR EC #121-16L-400-NW-G4-3-UN	Z,047 LOWEN, EXTENDOR, THE S DIS	TRIBUTION, EXTERIOR LED FIXTURE SURFACE MOUN THAT REDUCES LIGHTING BY 50% WHEN AREA IS UN IDICATED ON LIGHTING PLAN.		22 15	<ul> <li>2.2.4. MINIMUM CONCRETE THICKNESS: 6-1/2"</li> <li>2.2.5. TENSION LOAD: 1600 POUNDS</li> <li>2.2.6. TORQUE TEST: 40 POUND-FEET</li> </ul>	<ol> <li>COMPACT TOP 6" OF SUBGRADE IMMEDIATELY BENEATH THE BASE COURSE AT 95% MINIMUM RELATIVE COMPACTION.</li> </ol>
	SCHEDULES N	OTES			3. PLACEMENT GUIDELINES FOR ABOVE VALUES IN ITEM 2 REQUIRE THE FOLLOWING CONDITIONS:	8. ANY SURPLUS EXCAVATION RESULTING FROM THESE EXCAVATIONS SHALL BE HAULED OFF.
2. ALL CLEAR, ACRYLIC, PRISMATIC LENSES ARE TO BE MINI 3. ALL LEDS SHALL HAVE A CRI OF 0.8 AND COLOR TEMPE			GE WITH MINIMUM 1100 LUMEN OUTPUT. T	THE BATTERY CHARGER	<ul> <li>3.1. TABLE VALUES ARE BASED ON fc = 3000 PSI</li> <li>3.2. HOLES DRILLED WITH A HAMMER DRILL AND CARBIDE BIT COMPLYING WITH ANSI B212.15-1994</li> <li>3.3. BIT DIAMETER EQUALS THE SIZE OF THE ANCHOR BEING INSTALLED</li> <li>3.4. HOLE DEPTH MUST EXCEED MINIMUM EMBEDMENT BY ONE BOLT DIAMETER</li> </ul>	<ol> <li>AFTER ALL TRENCHES HAVE BEEN TAMPED IN, RAKE OUT ALL HIGH AND LOW AREAS ALONG THE TRENCH LINE. ALL CLODS AND SOLID ROCKS EXPOSED ON THE SURFACE AS A RESULT OF THE EXCAVATION SHALL BE BROKEN DOWN AND OR CLEANED UP. ALL TRENCH LINES SHALL BE RAKED LEVEL WITH EXISTING GRADE.</li> </ol>
SHALL BE CONNECTED TO THE UNSWITCHED SOURCE. 5. ALL DRIVERS SHALL HAVE LESS THAN 10% THD. 7. FIXTURE TYPE IS SHOWN WITHIN MOST FIXTURES. 8. PRIOR TO ORDERING FIXTURES REFER TO THE LIGHTING	G PLAN FOR THE CORRECT VOLTAGES TO BE UTILIZED FOR THE FIXTURES.				<ul> <li>3.5. ANY SEISMIC DESIGN CATEGORY PER 2013 C.B.C.</li> <li>3.6. TENSION LOAD VALUES SHALL BE MULTIPLIED BY 0.6 FOR LIGHTWEIGHT CONCRETE</li> <li>3.7. A.C.I. "CRACKED" CONCRETE CONDITION IS SUFFICIENT</li> <li>3.8. FOR CARBON OR STAINLESS STEEL BOLTS</li> </ul>	<ol> <li>ELECTRICAL, NETWORK, OR DATA CONDUIT SHALL NOT BE RUN IN EXCAVATIONS PROVIDED FOR PLUMBING OR HEATING PIPES, UNLESS SEPARATED BY A MINIMUM OF 12 INCHES.</li> <li>PATCH ALL TRENCHED AREAS TO MATCH EXISTING.</li> </ol>
				$ \longrightarrow$	4. WHEN INSTALLING EXPANSION ANCHORS IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM	12. HAND EXCAVATE IN AREAS WHERE TRENCHING IS DIFFICULT DUE TO STRUCTURAL OBSTRUCTIONS OR EXISTING UNDERGROUND CONDUIT.
	DESIG			CONDUCTOR	CLEARANCE OF ONE-INCH BETWEEN THE EXISTING REINFORCEMENT AND THE EXPANSION ANCHOR.	13. THE CONTRACTOR SHALL WALK THE SITE WITH THE DISTRICT TO IDENTIFY ALL EXISTING CONDUITS AND PIPES.
		CONDENSING UNIT 5.7FLA FUSE/DISC	VOLT     PHASE     OCPD     DUIT       SIZE     SIZE       208     3     NOTE 2     3/4"	#         SIZE         GND.           4         12         NOTE 3	<b>GENERAL ANCHOR NOTES</b> 1. POST-INSTALLED ANCHORS SHALL BE TESTED IN ACCORDANCE WITH 2013 CBC SECTION	14. CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A SOILS LAB TO TEST FOR THE COMPACTION OF THE BACKFILL. A SOILS PROFILE SHALL BE DONE OF THE EXCAVATED NATIVE TRENCHED DIRT SO THE COMPACTION TEST CAN BE COMPARED WITH THE NATIVE DIRT PROFILE. THE CONTRACTOR SHALL PROVIDE ALL COMPACTION OF THE TRENCH
	FC-1	FUSE/DISC FAN COIL 34.2FLA NEMA SIZE STARTER	2       1"	6	<ol> <li>1913A.7.</li> <li>IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE, NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY. IF THE ANCHORS ARE USED FOR THE SUPPORT AND BRACING OF</li> </ol>	REQUIRED TO MEET A 95% COMPACTION REQUIREMENT. AN INSPECTED AND SIGNED OFF COMPACTION TESTING REPORT SHALL BE PROVIDED BY THE SOILS TESTING LAB AND COPY OF THE COMPACTION TEST SHALL BE PROVIDED TO THE ENGINEER OF RECORD/PROJECT
	FC-2	FUSE/DISC NEMA SIZE STARTER			NON-STRUCTURAL COMPONENTS (PIPE, DUCT OR CONDUIT), THE TWENTY (20) SHALL BE ONLY THOSE ANCHORS INSTALLED BY THE SAME TRADE. REFER TO NOTE 8 ON THE TEST VALUES TABLE (ATTACHED) FOR ACCEPTANCE/FAILURE CRITERIA.	COORDINATOR PRIOR INSTALLING THE HARDSCAPE. THE CONTRACTOR SHALL WILL BE REQUIRED TO PAY FOR ALL TESTS UNTIL THE COMPACTION RESULTS MEET OR EXCEED THE COMPACTION TEST.
	2. REFE	HERMAL RATED SWITCH FOR FRACTIONAL HORSEPO R TO THE PANEL SCHEDULE AND SINGLE LINE DIAGI	WER MOTORS.	DUIT SIZES, IF NOT	<ol> <li>REGARDLESS OF WHICH TEST METHOD IS CHOSEN BY THE CONSULTANT, TEST VALUES AND ALL APPROPRIATE CRITERIA SHALL BE SHOWN ON THE CONTRACT DOCUMENTS.</li> <li>REFER TO CIVIL AND STRUCTURAL PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.</li> </ol>	15. ALL EXISTING PAINTED TRAFFIC LINES, PARKING STALL LINES, ETC. SHALL BE REPAINTED AFTER THE PATCH UP AND REPAIR OF THE HARDSCAPE AREAS TO MATCH THE EXISTING PRIOR TO EXCAVATIONS.
	3. GRO GENERA 1. COC	CATED WITHIN THE SCHEDULE. JNDING CONDUCTOR SIZE TO MATCH CIRCUIT CON NOTES: RDINATE LOCATIONS AND POWER REQUIREMENT FO IDE DISCONNECT PER NAME PLATE RATING OF MEC	OR MECHANICAL EQUIPMENT WITH MECHA	ANICAL CONTRACTOR.		16. ALL TRENCHED AREAS SHALL BE PROTECTED WITH HEAVY STEEL TRAFFIC PLATES TO ACCOMMODATE VEHICULAR TRAFFIC WHILE WORK IS UNDERWAY. ALL OPEN TRENCHES SHALL BE SAFEGUARDED AND BARRICADED.



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TITLE: ELECTRICAL NOTES, REQUIREMENTS, LIGHTING & MECHANICAL SCHEDULES



	VOLTAGE: 208/120V, 30 BUS: MAIN BREAKER: 70			3Ø, 4W			BREAK	ER AIC:	35,000			$\square$	VOLT	AGE: 208	3/12
			BU	S: 125A	(N) PA	NEL 'G'	MOUN	ting: si	JRFACE						
			REAKER:	70A/3P			NEMA	3R ENCI					N	1AIN BRE	EAK
		L	OAD (V.	A)			L	OAD (V	A)					L	0A
CIR #	BKR	PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	PHASE C	PHASE B	PHASE A	BKR	CIR #	CIR #	BKR	PHASE A	Pŀ
1	20A/1P	240			GEN. BATT. CHARGER	FUEL MAINT. SYSTEM			600	20A/1P	2	1		4107	$\square$
3	20A/1P		1250			SPARE		0		20A/1P	4	3	60A/3P		4
5	20A/1P			1250	JACKET WATER HEATER	FUEL TANK ALARM PNL	100			20A/1P	6	5			1
7	20A/1P	44			WALL MOUNTED LIGHTS	SPARE			0	20A/1P		7		685	T
9	20A/1P		400		SPARE	SPARE		400		20A/1P	10	9	15A/3P		6
11	20A/1P			180	GEN. GFCI RECEPTACLE	PANEL REC.	180			20A/1P	12	11			T
13	20A/1P	400		<u> </u>	SPARE	SPARE			400	20A/1P	14	13	20A/1P	400	
15	20A/1P		400	-	$\downarrow$	↓		400		20A/1P	16	15	20A/1P		4
17	20A/1P			400	Ļ	↓	400			20A/1P	18	17	15A/1P		1
19		0			SPACE	SPACE			0		20	19		0	
21	Ļ		0		↓	↓		0		Ļ	22	21	Ļ		$\square$
23	Ļ			0	↓	Ļ	0			Ļ	24	23	→		
25	Ļ	0		-	$\downarrow$	↓			0	Ļ	26	25	→	0	Γ
27	Ļ		0		↓ · ·	↓		0	<b>*</b>	Ļ	28	27	Ļ		-
29	Ļ			0	Ļ	↓	0			Ļ	30	29	Ļ		-
31	Ļ	0			↓	↓			0	Ļ	32	31	↓	0	Γ
33	Ļ		0		Ļ	Ļ		0		Ļ	34	33	Ļ		
35	Ļ			0	Ļ	Ļ	0			Ļ	36	35	↓		
37	Ļ	0			Ļ	Ļ			0	Ļ	38	37	Ļ	0	
39	Ļ		0		Ļ	↓		0	1	Ļ	40	39	Ļ		
41	Ļ			0	Ļ	Ļ	0			Ļ	42	41	Ļ		
тот	AL Ø LOA	ADS (VA)	:	-	PHASE A = 1684	PHASE B = 2850	PHASE	C = 251	0			TOT	AL Ø LOA	ADS (VA)	1:
TOT	ALØLOA	ADS (A):			PHASE A = 14	PHASE B = 24	PHASE	C = 21				тот	ALØLO	ADS (A):	
тот	AL LOAD	:			7044 VA	20 A						TOTAL LOAD:			
NOTE:					•	*						NO	TE:		

	VOLTA	AGE: 208	3/120V,	3Ø, 4W			BREAK	ER AIC: 3	35,000		
			BU	S: 225A	(N) PANEL	. 'AC-PNL-1'	MOUN	ting: si	JRFACE		
	Μ	iain bre		,	• •		NEMA 1 ENCLOSURE				
~		L	OAD (V. I	A) T			L	OAD (V	A) I	-	
CIR #	BKR	PHASE A	PHASE B	PHASE C	DESCRIPTION	DESCRIPTION	PHASE C	PHASE B	PHASE A	BKR	CI #
1		1201				EXISTING LOAD			1560	30A/2P	2
3	20A/3P		1201		EXISTING LOAD			1560		307921	4
5				1201		EXISTING LOAD	1560			30A/2P	6
7	20A/1P	960			EXISTING LOAD				1560	307721	8
9			1201			EXISTING LOAD		2080		30A/2P	10
11	20A/3P			1201	EXISTING LOAD		2080			507921	12
13		1201				SPARE			0	20A/1P	14
15	20A/1P		0		SPARE	SPARE		0		20A/1P	16
17	20A/1P			0	Ļ	Ļ	0			20A/1P	18
19	20A/1P	300			FIRE SUPRESSION PNL	FACP			200	20A/1P	20
21	20A/1P		0		SPARE	SPARE		0		20A/1P	22
23	20A/1P			0	↓	↓	0			20A/1P	24
25	and the second se	0			SPACE	SPACE			0		26
27	Ļ		0		↓	↓		0		Ļ	28
29	Ļ			0	Ļ	↓	0			Ļ	30
31	Ļ	0			Ļ	↓			0	Ļ	32
33	Ļ		0		Ļ	↓ ↓		0		Ļ	34
35	Ļ			0	Ļ	Ļ	0			Ļ	36
37	-	3960				↓			0	Ļ	38
39	200A/3P		4800		PANEL 'AC-PNL-1B'	↓		0		Ļ	40
41				4920		↓	0			Ļ	42
	TAL Ø LOA		:		PHASE A = 10942	PHASE B = 10842	PHASE	C = 109	62		
то	TAL Ø LOA	ADS (A):			PHASE A = 91	PHASE B = 90	PHASE	C = 91			
TOTAL LOAD: 32746 VA					32746 VA	91 A					

<u>/</u>	VOLTA	GE: 208	/120V,	3Ø, 4W			BREAKE	ER AIC: 3	35,000		
			BU	S: 150A	(N) PA	NEL 'M'	MOUN	ting: sl	JRFACE		
	М	AIN BRE	AKER: 1	50A/3P			NEMA 3	BR ENCL	.OSURE		
	1		OAD (VA	· · · · · ·				OAD (V			
CIR	BKR	PHASE		PHASE	DESCRIPTION	DESCRIPTION	PHASE	PHASE	PHASE	BKR	CIR
#	DKK	A	B	C	DESCRIPTION	DESCRIPTION	C	B	A	DIKK	#
1		4107							4107		2
3	60A/3P		4107		FC-1	FC-2		4107		60A/3P	4
5	1			4107			4107				6
7		685							685		8
	15 4 (20	005			<u> </u>	CU D			005	154/20	
9	15A/3P		685	ļ	CU-1	CU-2		685		15A/3P	10
11				685			685				12
13	20A/1P	400		l I	SPARE	NETWORK ROOM LTG			400	20A/1P	14
15	20A/1P		400		Ļ	HVAC ROOF REC.		180		20A/1P	16
17	15A/1P			168	HEATER PAD FOR CU-1	HEATER PAD FOR CU-2	168			15A/1P	18
	15/y11									15/9/1	
19	and the second	0			SPACE	SPACE			0	and the second	20
21	Ļ		0		Ļ	↓		0		↓	22
23	Ļ			0	$\downarrow$	$\downarrow$	0			↓	24
25	Ļ	0				↓			0	Ļ	26
27	↓ ↓		0	ŀ	¥ I	↓	+	0	ļ	↓ ↓	28
	-				¥	-	+				
29	Ļ			0	↓	↓	0	ļ		↓	30
31	Ļ	0			↓	↓			0	Ļ	32
33	Ļ		0		↓	Ļ		0		Ļ	34
35	Ļ			0	$\downarrow$	↓	0			Ļ	36
37	Ļ	0				↓	1		0	Ļ	38
39			0		↓ I		+	0		,	
	Ļ		0		↓	↓		0		Ļ	40
41	Ļ			0	↓	↓	0			↓	42
тот	FAL Ø LOA	DS (VA)	:		PHASE A = 10384	PHASE B = 10164	PHASE	C = 992	0		
тот	TAL Ø LOA	DS (A):			PHASE A = 86	PHASE B = 85	PHASE	C = 83			
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	TAL LOAD:				30468 VA	85 A	-				
		GE: 120	/2081/	3(7) 4\¥/			1				\langle
		\GE: 120	1/208V, .	3Ø, 4W	(E) PANEL	'AC-PNL-1'	MOUN	TING: SL	JRFACE		
	VOLTA				(E) PANEL	'AC-PNL-1'	MOUN	TING: SL	JRFACE		
	VOLTA	AIN BRE		00A/3P	(E) PANEL	'AC-PNL-1'		ting: sl			
	VOLTA M	AIN BRE	AKER: 1 OAD (V/	00A/3P A)				OAD (V.	A)	DVD	
	VOLTA	AIN BRE LO PHASE	AKER: 1 OAD (VA	00A/3P A) PHASE	(E) PANEL	'AC-PNL-1' DESCRIPTION	PHASE	OAD (V) PHASE	a) PHASE	BKR	CIR #
CIR	VOLTA M	AIN BRE	AKER: 1 OAD (V/	00A/3P A)				OAD (V.	A)	BKR	
CIR	VOLTA M	AIN BRE LO PHASE	AKER: 1 OAD (VA	00A/3P A) PHASE			PHASE	OAD (V) PHASE	a) PHASE	BKR	
CIR #	VOLTA M	AIN BRE LO PHASE	AKER: 1 OAD (VA	00A/3P A) PHASE C	DESCRIPTION SPACE	DESCRIPTION	PHASE	OAD (V) PHASE	a) PHASE	BKR	#
CIR # 42 40	VOLTA M BKR	AIN BRE LO PHASE	AKER: 1 OAD (VA	00A/3P A) PHASE	DESCRIPTION SPACE	DESCRIPTION	PHASE	OAD (V) PHASE	a) PHASE		# 41 39
CIR # 42 40 38	VOLTA M BKR	AIN BRE LC PHASE A	AKER: 1 OAD (VA	00A/3P A) PHASE C	DESCRIPTION SPACE	DESCRIPTION SPACE	PHASE	OAD (V) PHASE	A) PHASE A	→	# 41 39 37
CIR # 42 40 38 36	VOLTA M BKR	AIN BRE LO PHASE	AKER: 1 OAD (V/ PHASE B	00A/3P A) PHASE C	DESCRIPTION SPACE	DESCRIPTION SPACE	PHASE	OAD (V/ PHASE B	a) PHASE	→	# 41 39 37 35
CIR # 42 40 38 36 34	VOLTA M BKR	AIN BRE LC PHASE A	AKER: 1 OAD (VA	00A/3P A) PHASE C	DESCRIPTION SPACE	DESCRIPTION SPACE ↓ ↓	C	OAD (V) PHASE	A) PHASE A	↓ ↓	# 41 39 37 35 33
CIR # 42 40 38 36	VOLTA M BKR	AIN BRE LC PHASE A	AKER: 1 OAD (V/ PHASE B	00A/3P A) PHASE C	DESCRIPTION SPACE	DESCRIPTION SPACE ↓ ↓ EXISTING LOAD	PHASE	OAD (V/ PHASE B	A) PHASE A	↓ ↓ 30A/2P	# 41 39 37 35
CIR # 42 40 38 36 34 32	VOLTA M BKR	AIN BRE LC PHASE A	AKER: 1 OAD (V/ PHASE B	00A/3P A) PHASE C 15 1201	DESCRIPTION SPACE	DESCRIPTION SPACE ↓ ↓	C	OAD (V/ PHASE B	A) PHASE A	↓ ↓	# 41 39 37 35 33
CIR # 42 40 38 36 34 32	VOLTA M BKR ↓ ↓ 20A/3P	AIN BRE LC PHASE A 1201	AKER: 1 OAD (V/ PHASE B	00A/3P A) PHASE C 15 1201	DESCRIPTION SPACE	DESCRIPTION SPACE ↓ EXISTING LOAD	C	OAD (V/ PHASE B	A) PHASE A 1560	↓ ↓ 30A/2P 30A/2P	# 41 39 37 35 33 31
CIR # 42 40 38 36 34 32 30 28	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P	AIN BRE LC PHASE A 1201	AKER: 1 OAD (V/ PHASE B 1201	00A/3P A) PHASE C 15 1201	DESCRIPTION SPACE	DESCRIPTION SPACE ↓ ↓ EXISTING LOAD	2011 201 20	OAD (V/ PHASE B 1560	A) PHASE A 1560	↓ ↓ 30A/2P	# 41 39 37 35 33 31 29 27
CIR # 42 40 38 36 34 32 30 28 26	VOLTA M BKR ↓ ↓ 20A/3P	AIN BRE PHASE A 1201 960	AKER: 1 OAD (V/ PHASE B 1201	00A/3P A) PHASE C 15 1201	DESCRIPTION SPACE	DESCRIPTION SPACE ↓ ↓ EXISTING LOAD EXISTING LOAD EXISTING LOAD	C	OAD (V/ PHASE B 1560	A) PHASE A 1560 1560	↓ ↓ 30A/2P 30A/2P	# 41 39 37 35 33 31 29 27 25
CIR # 42 40 38 36 34 32 30 28 26 24	VOLTA M BKR ↓ 20A/3P 20A/1P 20A/3P	AIN BRE LC PHASE A 1201	AKER: 1 DAD (V/ PHASE B 1201 1201	00A/3P A) PHASE C 15 1201 1201	DESCRIPTION SPACE	DESCRIPTION SPACE ↓ ↓ EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	2011 201 20	OAD (V PHASE B 1560 2080	A) PHASE A 1560	↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P	 # 41 39 37 35 33 31 29 27 25 23
CIR # 42 40 38 36 34 32 30 28 26 24 22	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P 20A/1P	AIN BRE PHASE A 1201 960	AKER: 1 OAD (V/ PHASE B 1201	00A/3P A) PHASE C 15 1201 1201	DESCRIPTION SPACE	DESCRIPTION SPACE ↓ ↓ EXISTING LOAD EXISTING LOAD EXISTING LOAD	2011 201 20	OAD (V/ PHASE B 1560	A) PHASE A 1560 1560	↓ ↓ 30A/2P 30A/2P	# 41 39 37 35 33 31 29 27 25 23 21
CIR # 422 400 388 366 344 322 300 288 266 24 222	VOLTA M BKR ↓ 20A/3P 20A/1P 20A/3P	AIN BRE PHASE A 1201 960	AKER: 1 DAD (V/ PHASE B 1201 1201	00A/3P A) PHASE C 15 1201	DESCRIPTION SPACE	DESCRIPTION SPACE ↓ EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	2011 201 20	OAD (V PHASE B 1560 2080	A) PHASE A 1560 1560	↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P	# 41 39 37 35 33 31 29 27 25 23 21
CIR # 42 40 38 36 34 32 30 28 26 24 22 20	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P 20A/1P	AIN BRE PHASE A 1201 960	AKER: 1 DAD (V/ PHASE B 1201 1201	00A/3P A) PHASE C 15 1201	DESCRIPTION SPACE J EXISTING LOAD EXISTING LOAD EXISTING LOAD	DESCRIPTION SPACE ↓ ↓ EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	L(PHASE C 1560 2080	OAD (V PHASE B 1560 2080	A) PHASE A 1560 1560	↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P	# 41 39 37 35 33 31 29
CIR # 42 40 38 36 34 32 30 28 26 24 22 20 18	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	AIN BRE LC PHASE A 1201 960 1201 1201	AKER: 1 DAD (V/ PHASE B 1201 1201	00A/3P A) PHASE C 15 1201	DESCRIPTION SPACE	DESCRIPTION SPACE ↓ EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	L(PHASE C 1560 2080	OAD (V PHASE B 1560 2080	A) PHASE A 1560 1560 720	↓ → 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 30A/2P	# 41 39 37 35 33 31 29 27 25 23 21 19 17
CIR # 42 40 38 36 34 32 30 28 26 24 22 20 18 16	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P 20A/1P 20A/1P 20A/1P	AIN BRE LC PHASE A 1201 960 1201 1201	AKER: 1 DAD (V/ PHASE B 1201 1201 1201 960	00A/3P A) PHASE C 15 1201 1201 1201	DESCRIPTION SPACE SPACE SPACE EXISTING LOAD EX	DESCRIPTION SPACE	L(PHASE C 2080 2080 1560	OAD (V/ PHASE B 1560 2080 960	A) PHASE A 1560 1560 720	↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 30A/2P 30A/1P	# 41 39 37 35 33 31 29 27 25 23 21 19 17 15
CIR # 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	AIN BRE LC PHASE A 1201 960 1201 1201	AKER: 1 DAD (V/ PHASE B 1201 1201 1201 960	00A/3P A) PHASE C 15 1201	DESCRIPTION SPACE SPACE SPACE EXISTING LOAD EX	DESCRIPTION SPACE ↓ ↓ EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	L(PHASE C 1560 2080	OAD (V/ PHASE B 1560 2080 960	A) PHASE A 1560 1560 720 1560	↓ → 30A/2P 30A/2P 30A/2P 20A/1P 30A/2P 30A/2P 30A/1P	 # 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13
CIR # 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	AIN BRE LC PHASE A 1201 960 1201 1201	AKER: 1 DAD (V/ PHASE B 1201 1201 1201 960	00A/3P A) PHASE C 1201 1201 1201 960	DESCRIPTION SPACE J EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	DESCRIPTION SPACE	L(PHASE C 2080 2080 1560	OAD (V/ PHASE B 1560 2080 960 1920	A) PHASE A 1560 1560 720	↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	 # 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11
CIR # 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	AIN BRE LC PHASE A 1201 960 1201 1201	AKER: 1 DAD (V/ PHASE B 1201 1201 1201 960	00A/3P A) PHASE C 1201 1201 1201 960	DESCRIPTION SPACE SPACE SPACE EXISTING LOAD EX	DESCRIPTION SPACE ↓ ↓ EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	L(PHASE C 2080 2080 1560	OAD (V/ PHASE B 1560 2080 960	A) PHASE A 1560 1560 720 1560	↓ → 30A/2P 30A/2P 30A/2P 20A/1P 30A/2P 30A/2P 30A/1P	 # 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13
CIR # 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	AIN BRE LC PHASE A 1201 960 1201 1201	AKER: 1 DAD (V/ PHASE B 1201 1201 1201 960	00A/3P A) PHASE C 1201 1201 1201 960	DESCRIPTION SPACE J EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	DESCRIPTION SPACE	L(PHASE C 2080 2080 1560	OAD (V/ PHASE B 1560 2080 960 1920	A) PHASE A 1560 1560 720 1560	↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	 # 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11
CIR # 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	AIN BRE LC PHASE A 1201 960 1201 960 0 0 0 0 0 0 0 0 0 0 0 0 0	AKER: 1 DAD (V/ PHASE B 1201 1201 1201 960	00A/3P A) PHASE C 1201 1201 1201 960	DESCRIPTION SPACE SPACE C C C C C C C C C C C C	DESCRIPTION SPACE ↓ ↓ EXISTING LOAD EXISTING LOAD	Image: constraint of the second se	OAD (V/ PHASE B 1560 2080 960 1920	A) PHASE A 1560 1560 720 1560	↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	 # 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 9 7
CIR # 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	AIN BRE LC PHASE A 1201 960 1201 1201	AKER: 1 DAD (V/ PHASE B 1201 1201 1201 960 960	00A/3P A) PHASE C 1201 1201 1201 960	DESCRIPTION SPACE J EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD EXISTING LOAD	DESCRIPTION SPACE ↓ EXISTING LOAD EXISTING LOAD	Image: constraint of the second se	OAD (V/ PHASE B 1560 2080 2080 960 1920 960	A) PHASE A 1560 1560 720 1560 720	↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	 # 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 5
CIR # 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	AIN BRE LC PHASE A 1201 960 1201 960 0 0 0 0 0 0 0 0 0 0 0 0 0	AKER: 1 DAD (V/ PHASE B 1201 1201 1201 960	00A/3P A) PHASE C 1201 1201 1201 960 960 016 INPL	DESCRIPTION SPACE SPACE C C C C C C C C C C C C	DESCRIPTION SPACE ↓ ↓ EXISTING LOAD EXISTING LOAD	L(PHASE C 2 1 1560 2080 2080 2080 1560 720 720 720	OAD (V/ PHASE B 1560 2080 960 1920	A) PHASE A 1560 1560 720 1560 720	↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	 # 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3
CIR # 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	AIN BRE LC PHASE A 1201 960 1201 960 0	AKER: 1 DAD (V/ PHASE B 1201 1201 1201 960 960 960	00A/3P A) PHASE C 1201 1201 1201 960	DESCRIPTION SPACE	DESCRIPTION SPACE ↓ ↓ EXISTING LOAD EXISTING LOAD	PHASE C PHASE C Interpretation Inte	OAD (V/ PHASE B 1560 2080 2080 960 1920 960 960	A) PHASE A 1560 1560 720 1560 720 0 0	↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	 # 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 5
CIR # 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	AIN BRE LC PHASE A 1201 960 1201 960 0	AKER: 1 DAD (V/ PHASE B 1201 1201 1201 960 960 960	00A/3P A) PHASE C 1201 1201 1201 960 960 016 INPL	DESCRIPTION SPACE SPACE C C C C C C C C C C C C	DESCRIPTION SPACE ↓ ↓ EXISTING LOAD EXISTING LOAD	PHASE C PHASE C Interpretation Inte	OAD (V/ PHASE B 1560 2080 2080 960 1920 960	A) PHASE A 1560 1560 720 1560 720 0 0	↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	 # 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3
CIR # 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 7 701	VOLTA M BKR ↓ ↓ 20A/3P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	AIN BRE LC PHASE A 1201 960 1201 960 0 0 0 DS (VA)	AKER: 1 DAD (V/ PHASE B 1201 1201 1201 960 960 960	00A/3P A) PHASE C 1201 1201 1201 960 960 016 INPL	DESCRIPTION SPACE	DESCRIPTION SPACE ↓ ↓ EXISTING LOAD EXISTING LOAD	PHASE C PHASE C Interpretation Inte	OAD (V/ PHASE B 1560 2080 960 1920 960 0 960 0 0 0 C = 100	A) PHASE A 1560 1560 720 1560 720 0 0	↓ ↓ 30A/2P 30A/2P 30A/2P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P	 # 41 39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3

PANEL SHALL HAVE SURGE PROTECTIVE DEVICE.

CIR # BKR PHASE PHASE PHASE C 1 20A/1P 0 SPARE 3 30A/1P 960 EXISTING	SCRIPTION LOAD	'AC-PNL-1B' DESCRIPTION EXISTING LOAD	NEMA	TING: SU 1 ENCLO OAD (V/ PHASE B	DSURE A)	BKR	C11 #
MAIN BREAKER: 200A/3P LOAD (VA) CIR BKR PHASE PHASE PHASE PHASE DE 1 20A/1P 0 5 5 5 3 30A/1P 960 EXISTING	SCRIPTION LOAD	DESCRIPTION EXISTING LOAD	L PHASE	OAD (V) PHASE	A) PHASE	BKR	
CIR #BKRPHASE APHASE BPHASE CPHASE DE120A/1P0SPARE330A/1P960EXISTING	iload	EXISTING LOAD	PHASE	PHASE	PHASE	BKR	
#BKRPHASEPHASEPHASEPHASEDE120A/1P0SPARE330A/1P960EXISTING	iload	EXISTING LOAD				BKR	
3 30A/1P 960 EXISTING							
					720	20A/1P	2
				960		20A/1P	4
5 20A/1P 960 EXISTING	LUAD		1560				6
7 20A/1P 960 EXISTING	LOAD	EXISTING LOAD			1560	30A/2P	8
9 20A/1P 0 SPARE		EXISTING LOAD		1920		30A/1P	10
11 20A/1P 960 EXISTING	LOAD	EXISTING LOAD	720			20A/1P	12
13 20A/1P 0 SPARE		EXISTING LOAD			720	20A/1P	14
15 20A/1P 0	Ļ	EXISTING LOAD		960		20A/1P	16
17 20A/1P 0	Ļ	EXISTING LOAD	720			20A/1P	18
19 20A/1P 0	Ļ	SPARE			0	20A/1P	20
21 20A/1P 0	Ļ	Ļ		0		20A/1P	22
23 20A/1P 0	Ļ	Ļ	0			20A/1P	24
25 0 0	SPACE	SPACE			0		26
27 ↓ 0	Ļ	↓		0		Ļ	28
29 ↓ 0	Ļ	Ļ	0			Ļ	30
31 ↓ 0	Ļ	Ļ			0	Ļ	32
33 ↓ 0	Ļ	Ļ		0		Ļ	34
35 ↓ 0	Ļ	Ļ	0			Ļ	36
37 ↓ 0	Ļ	Ļ			0	Ļ	38
39 ↓ 0	Ļ	\downarrow		0		Ļ	40
41 ↓ 0	Ļ	Ļ	0			Ļ	42
TOTAL Ø LOADS (VA): PHASE A	= 3960	PHASE B = 4800	PHASE	C = 492	0		
TOTAL Ø LOADS (A): PHASE A	= 33	PHASE B = 40	PHASE	C = 41			
TOTAL LOAD: 13680 VA	٩	38 A					
NOTE:							
1. PANEL SHALL HAVE SURGE PROTECTIVE	DEVICE.						

GENERATOR, ATS, AND UPS WEIGHT & DIMENSIONS SCHEDULE

NAME

FUTURE 60KW UPS

NAME

PANEL 'AC-PNL-1'

PANEL 'AC-PNL-1B' 200A

NAME

75kva XFMR 'TX2'

DBEM1

DBEM2

PANEL 'G'

PANEL 'M'

450A

250A

150A

70A

200A

GENERATOR

ATS- 'AT1'

ATS- 'AT2'

60KW UPS

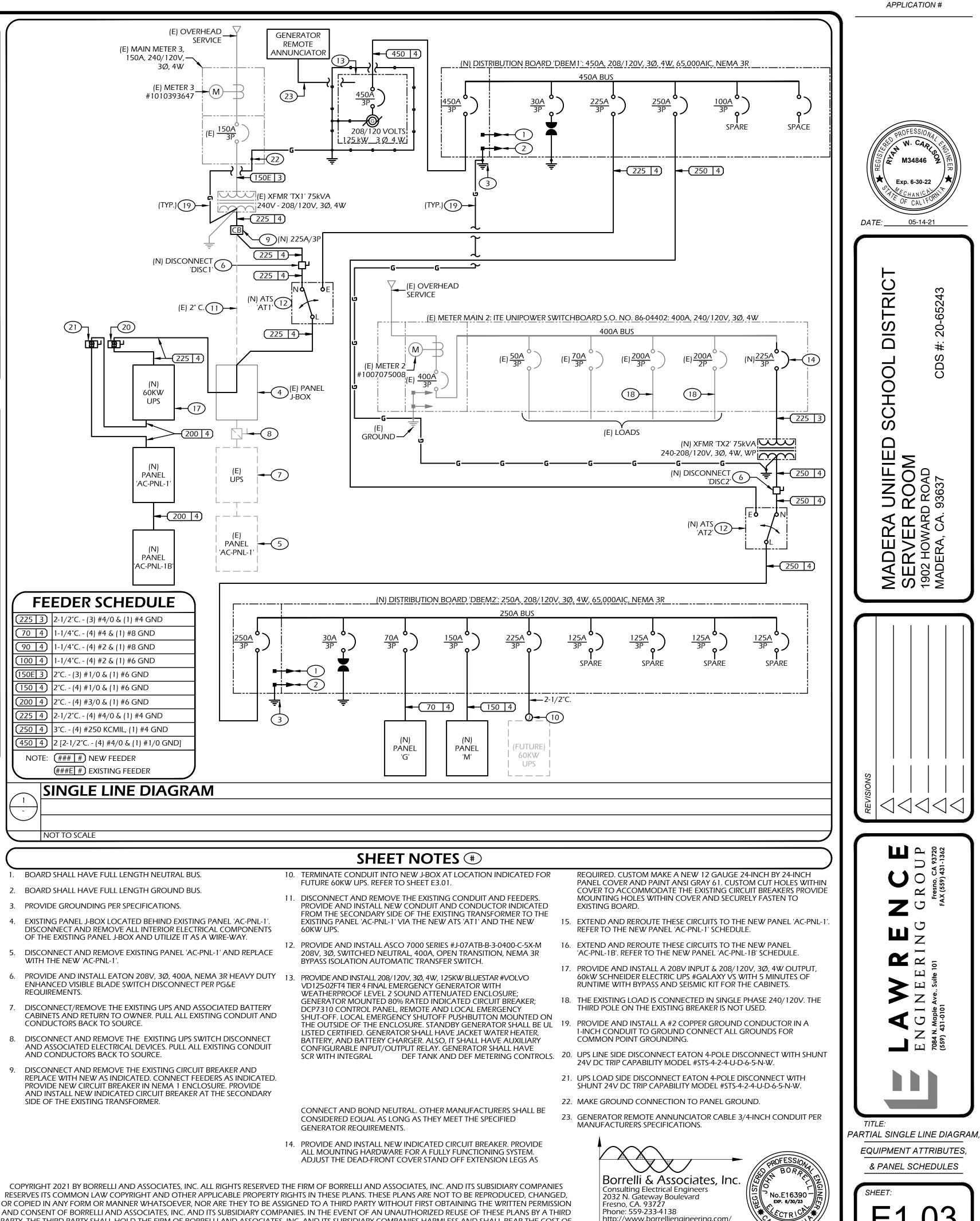
RATED	WEIGHT(Lb)	W	D	н	MOUNTING
125kW	6188	134"	60"	82"	FREESTANDING
 400A	1620	49.12"	36.66"	95.2"	FREESTANDING
400A	1620	49.12"	36.66"	95.2"	FREESTANDING
-	2552	59.86"	33.34"	58.46"	FREESTANDING
-	2552	59.86"	33.34"	58.46"	FREESTANDING

ELECTRICAL DISTRIBUTION WEIGHT & DIMENSIONS SCHEDULE

		142101	12 201		
СВ	WEIGHT(Ib)	W	D	Н	MOUNTING
450A	1200	36"	39.03"	91.50"	FREESTANDING
250A	1200	36"	39.03"	91.50"	FREESTANDING
70A	164	20"	6.5"	50"	SURFACE
150A	296	20"	6.5"	50"	SURFACE
200A	204	20"	5.75"	68"	SURFACE
200A	150	20"	5.75"	50"	SURFACE

TRANSFORMER WEIGHT & DIMENSIONS SCHEDULE

WEIGHT(LBS)	Н	W	D
727	33.5"	30.06"	27.43"
			ノ



- DISCONNECT AND REMOVE EXISTING PANEL 'AC-PNL-1' AND REPLACE
- 6. ENHANCED VISIBLE BLADE SWITCH DISCONNECT PER PG&E
- 8. DISCONNECT AND REMOVE THE EXISTING UPS SWITCH DISCONNECT
- 9. DISCONNECT AND REMOVE THE EXISTING CIRCUIT BREAKER AND SIDE OF THE EXISTING TRANSFORMER.

AND CONSENT OF BORRELLI AND ASSOCIATES, INC. AND ITS SUBSIDIARY COMPANIES. IN THE EVENT OF AN UNAUTHORIZED REUSE OF THESE PLANS BY A THIRD PARTY, THE THIRD PARTY SHALL HOLD THE FIRM OF BORRELLI AND ASSOCIATES, INC. AND ITS SUBSIDIARY COMPANIES HARMLESS AND SHALL BEAR THE COST OF BORRELLI AND ASSOCIATES, INC. AND ITS SUBSIDIARY COMPANIES LEGAL FEES ASSOCIATED WITH DEFENDING AND ENFORCING THESE RIGHTS.

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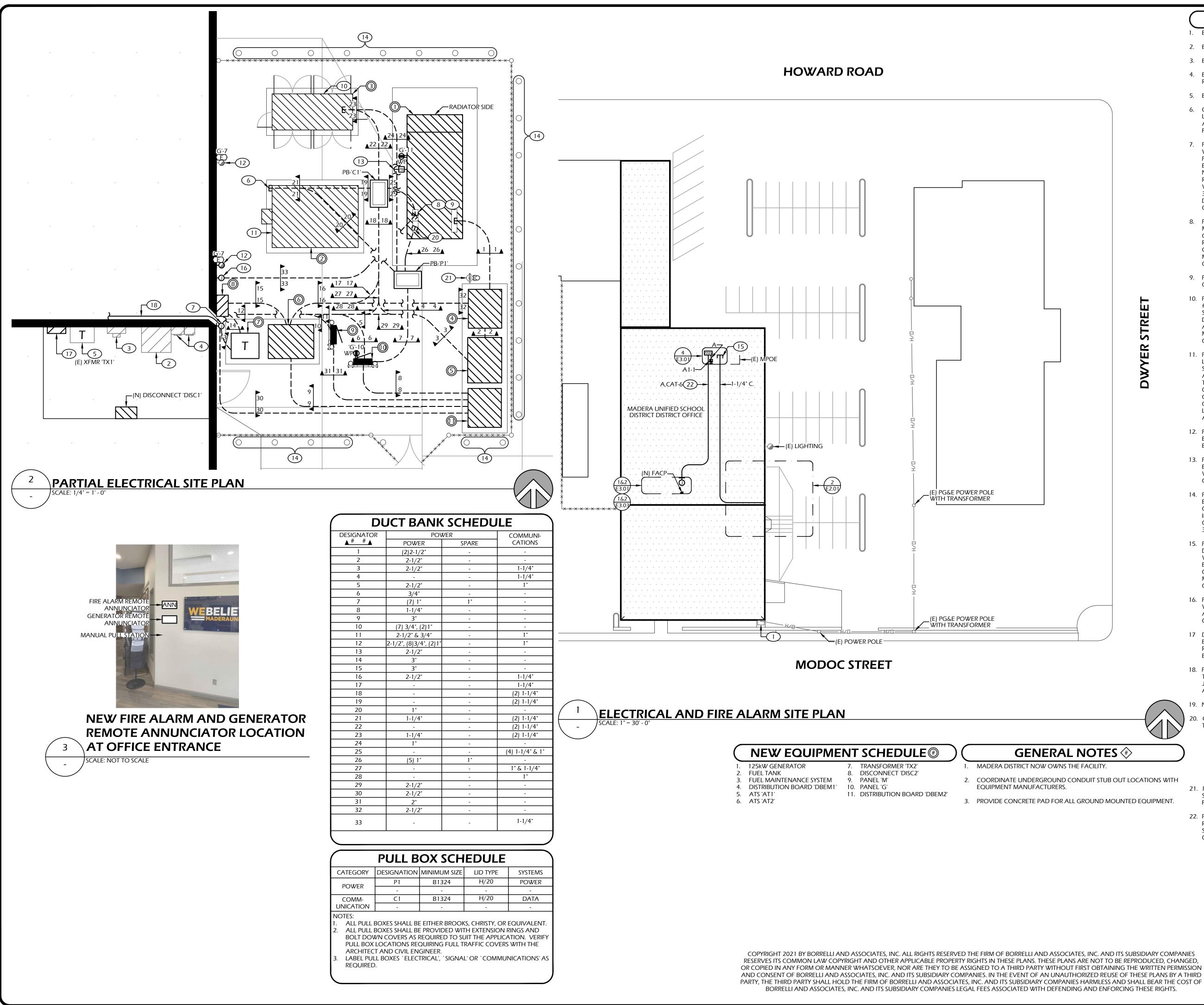
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PROJECT.

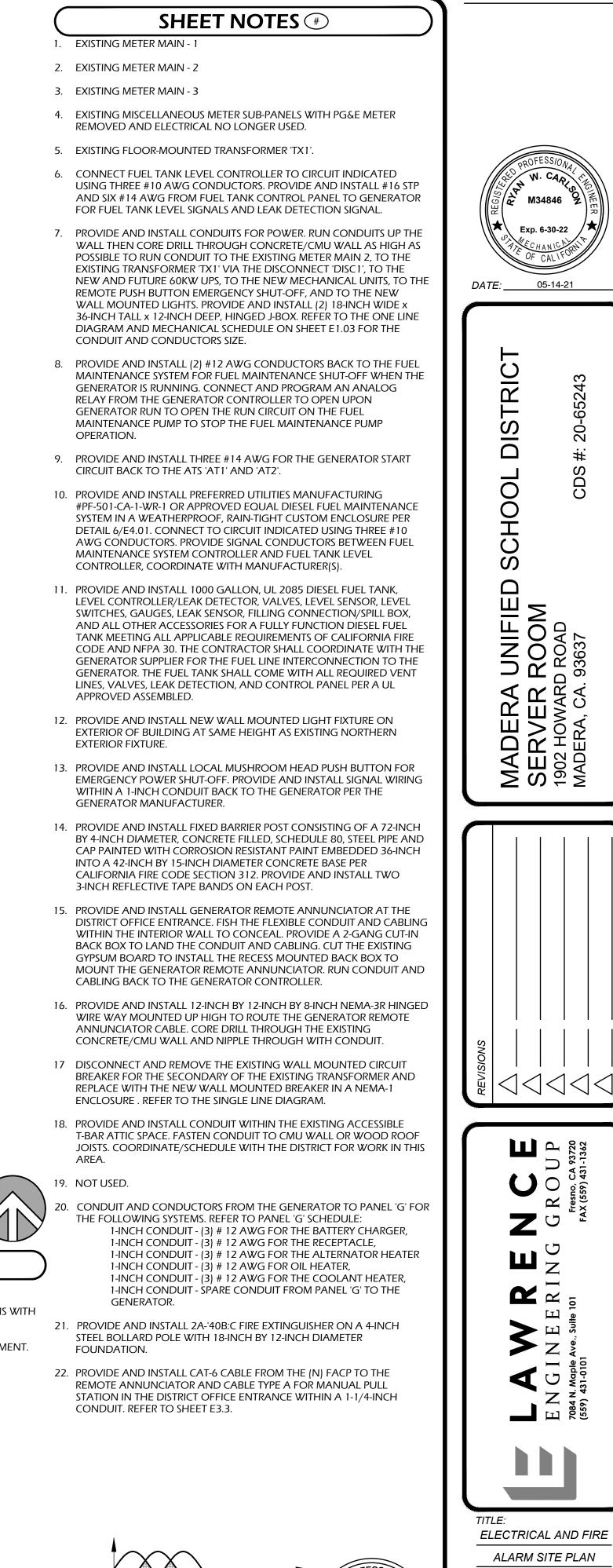
http://www.borrelliengineering.com/

ca-bai@borrelliengineering.com

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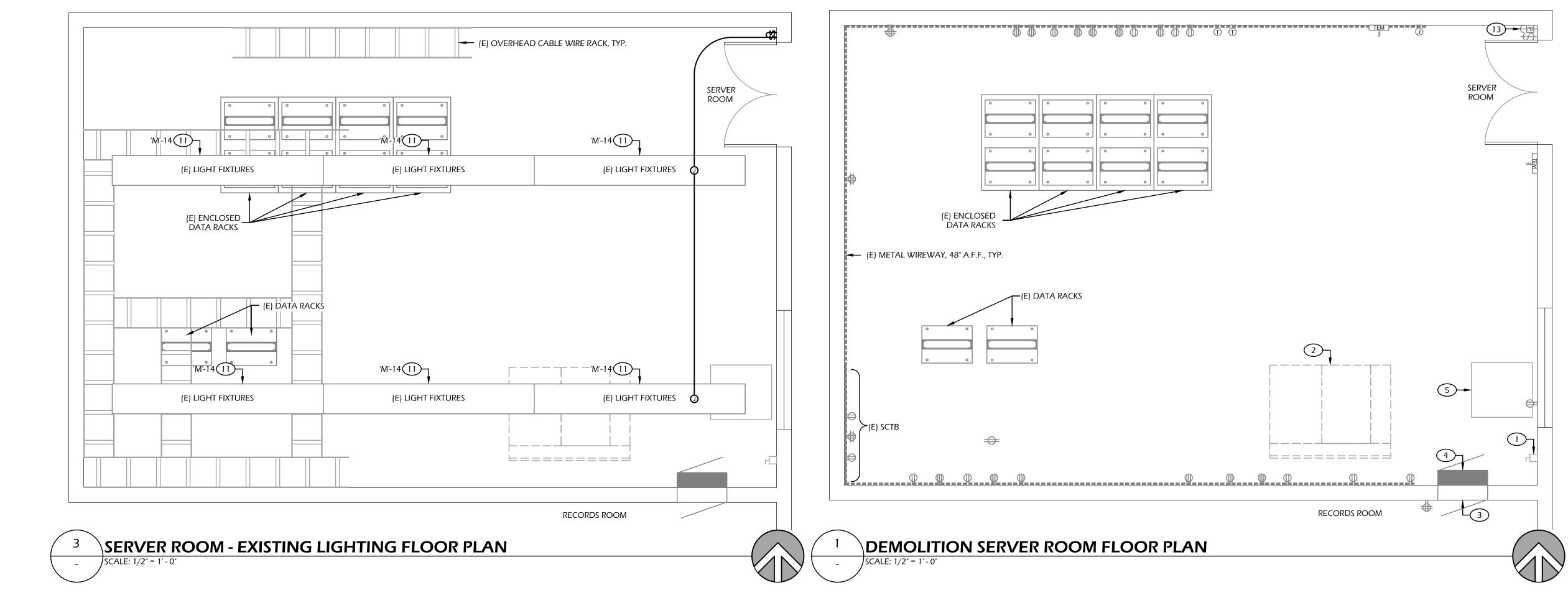
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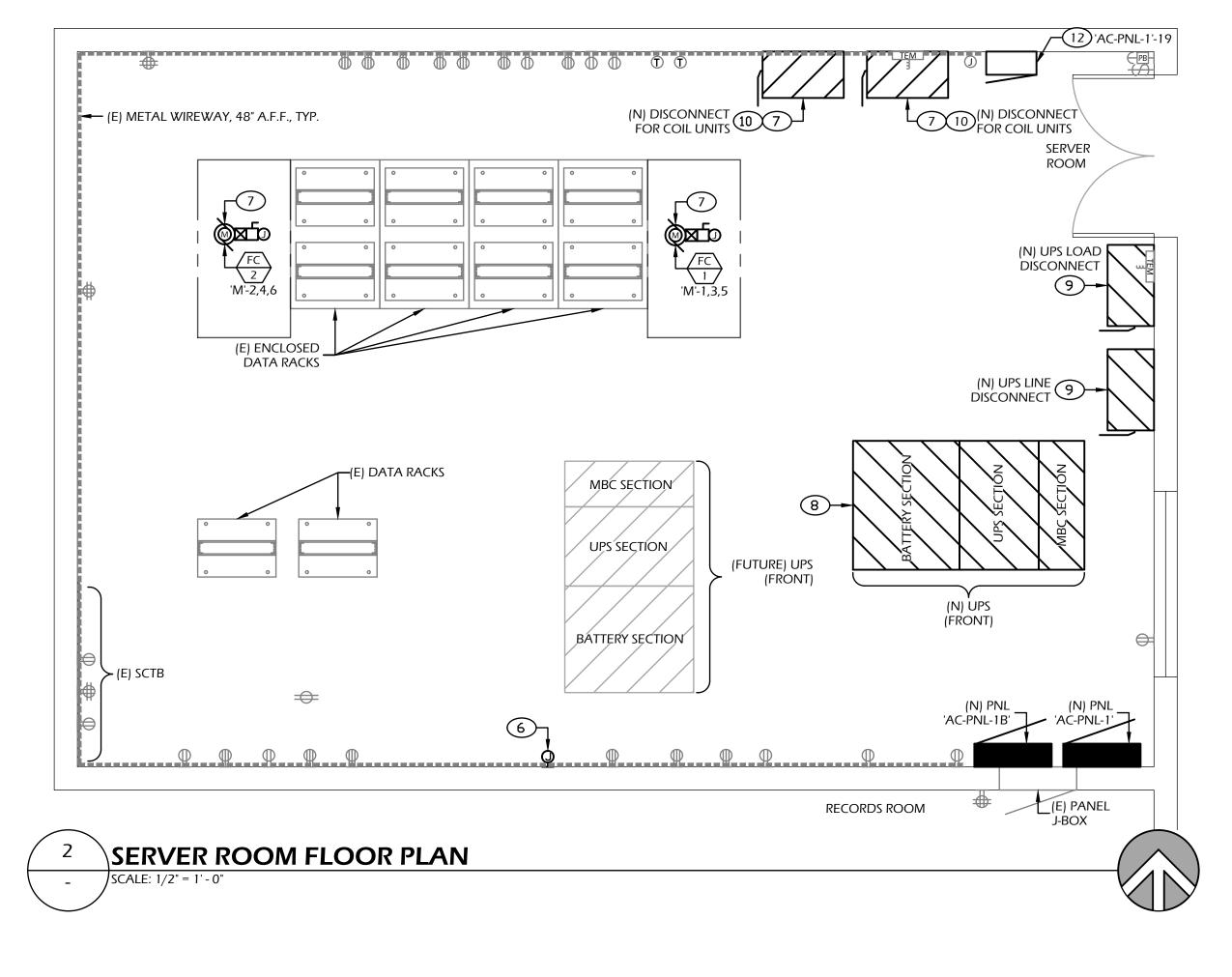
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Borrelli & Associates, Inc Consulting Electrical Engineers 2032 N. Gateway Boulevard Fresno, CA. 93727 Phone: 559-233-4138 http://www.borrelliengineering.com/ ca-bai@borrelliengineering.com BAI# 20141

ШŐ ELECTRICAL AND FIRE ALARM SITE PLAN SHEET: PROJECT. G:\Educational\MaderaUSD\DistrictOffice\BackupGenerator\20141E2-01.dwg, 6/23/2022 11:27:22 AM, ARCH full bleed D (24.00 x 36.00 Inches)







SHEET NOTES (#)

2. DISCONNECT AND REMOVE THE EXISTING 4,000 POUND UPS AND

CONDUCTORS BACK TO SOURCE.

INSTALL NEW UPS INDICATED.

LINE DIAGRAM ON SHEET E1.03.

SHEET E1.03.

ATTACHMENT.

DISCONNECT AND REMOVE THE EXISTING UPS SWITCH DISCONNECT AND ASSOCIATED ELECTRICAL DEVICES. PULL ALL CONDUIT AND

ASSOCIATED BATTERY CABINETS AND REMOVE FROM SITE. PULL ALL CONDUIT AND CONDUCTORS BACK TO SOURCE. PROVIDE AND

3. EXISTING PANEL-STYLE J-BOX. REFER TO THE SINGLE LINE DIAGRAM ON

4. EXISTING PANEL 'AC-PNL-1'. DISCONNECT AND REMOVE EXISTING

5. EXISTING PREVIOUS DATA RACK, NOT USED. DATA RACK TO BE

6. PROVIDE AND INSTALL 2-1/2-INCH CONDUIT FOR THE FUTURE UPS BACK TO THE DISTRIBUTION BOARD 'DBEM2'. REFER TO THE SINGLE

7. ROUTE CIRCUITS FOR FAN COIL THROUGH DISCONNECTS. MOUNT

8. REFER TO MECHANICAL DRAWINGS DETAIL G/M4 FOR METHOD OF

9. PROVIDE AND INSTALL NEW PLACARDS TO READ "LINE SIDE UPS

DISCONNECT" AND "LOAD SIDE UPS DISCONNECT" INSTALL PLACARD

CONDUCTORS. PROVIDE AND INSTALL NEW BRANCH CIRCUIT WIRING TO PANEL AND CIRCUIT INDICATED. EXISTING LIGHTING TO BE ON THE

10. PROVIDE AND INSTALL DISCONNECT BELOW THE EXISTING RACEWAY.

11. DISCONNECT THE EXISTING BRANCH CIRCUIT WIRING AND CAP OFF

12. PROVIDE AND INSTALL (3) #12 AWG CONDUCTORS WITHIN A 3/4"

13. EXISTING ABANDONED HIGH HEAT ALARM PUSH BUTTON.

CONDUIT BACK TO PANEL INDICATED TO POWER THE NEW FIRE

DISCONNECTS BELOW EXISTING SURFACE RACEWAY.

PANEL 'AC-PNL-1' AND REPLACE WITH NEW 'AC-PNL-1'.

REMOVED. COORDINATE WITH THE DISTRICT.

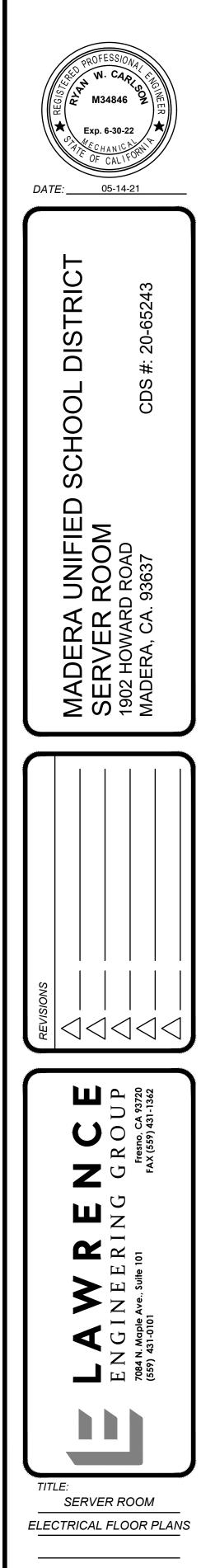
ABOVE THEIR RESPECTIVE DISCONNECTS.

EMERGENCY ELECTRICAL SYSTEM.

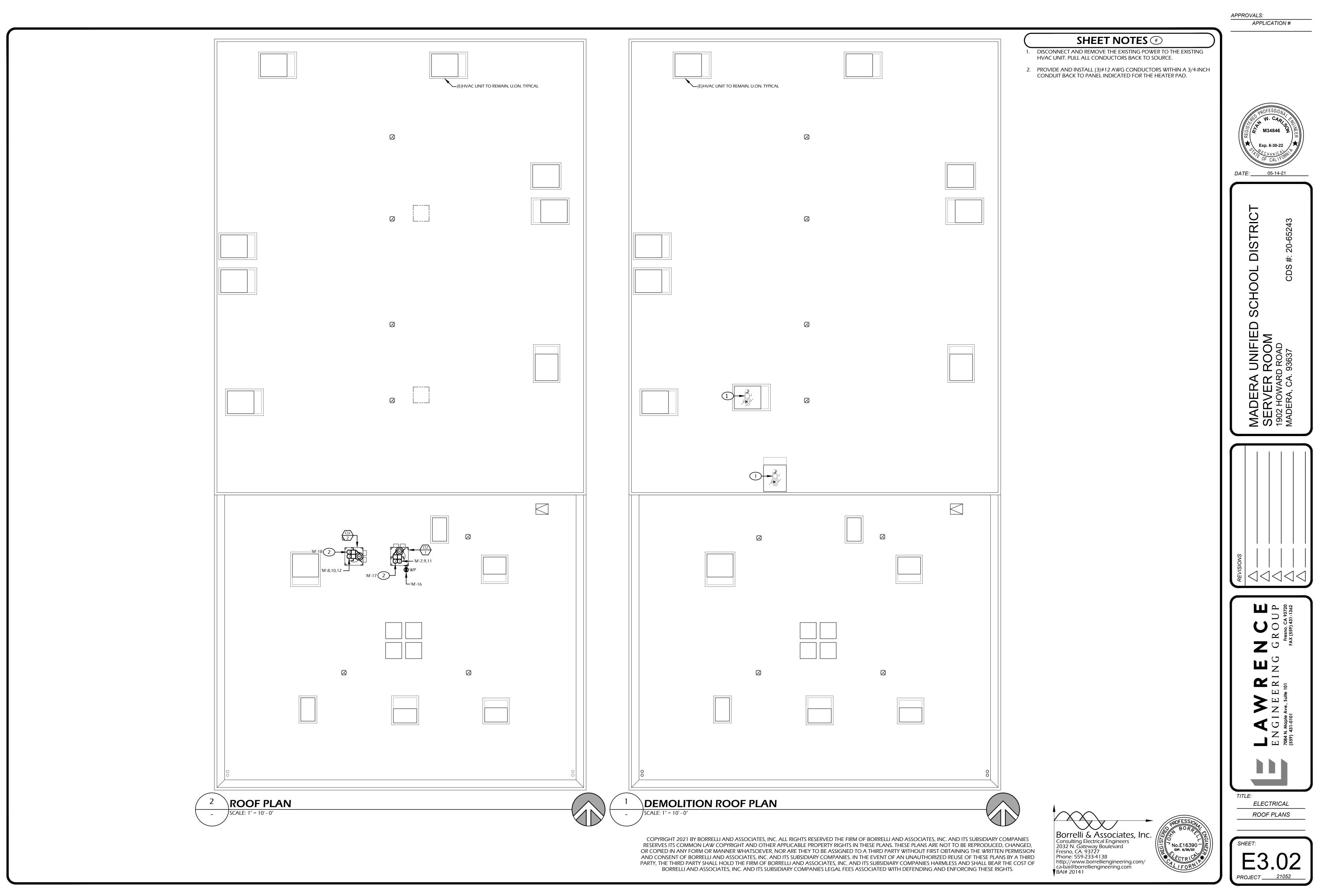
SUPPRESSION CONTROL PANEL.

Borrelli & Associates, Inc. Consulting Electrical Engineers 2032 N. Gateway Boulevard Fresno, CA. 93727 Phone: 559-233-4138 http://www.borrelliengineering.com/ ca-bai@borrelliengineering.com BAI# 20141

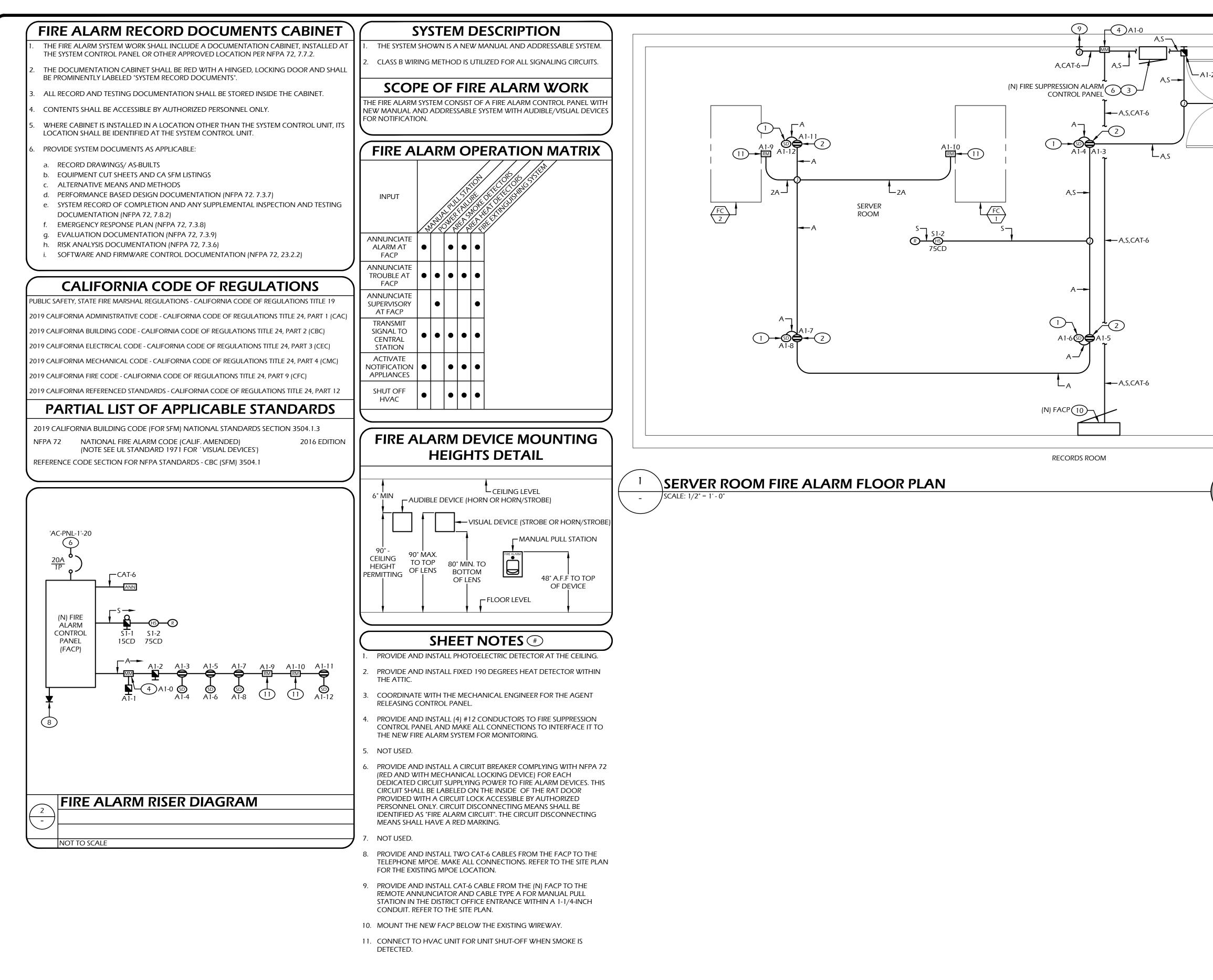






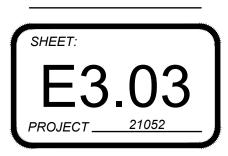


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SYMBOL DEVICE TYPE MANUGACTURER AND MODEL CSMULTING Image: Strate Construction NOTHER #NEW-100X 7165-0028-505 Image: Strate Construction NOTHER #NEW-100X 7120-0028-1101 Image: Strate Construction NOTHER #NEW-11 7300-028-1101 Image: Strate Construction NOTHER #NEW-1 7300-028-100 Image: Strate Construction NOTHER #NEW-1 7300-028-101 Image: Strate Construction NOTHER #NEW-1 7300-028-101 Image: Strate Constrate Construction NOTHER #NEW-1		FIRF AI AR	M SYMBOL LIST		
	SYMBOI		MANUFACTURER AND MODEL		
The second reading of the second provide provide second provide second provide second provide second provide second provide provide second provide provide second provide provide second provide provid	-				
		REMOTE ANNUNCIATOR	NOTIFIER #N-ANN-80-W		
		SMOKE DETECTOR - SPOT TYPE	NOTIFIER #FSP-851	7272-0028:206	
The LINEAR LATE DETECTION NOTICE WHILE AND LEAD TO COMPARE AN		190°F FIXED HEAT DETECTOR	NOTIFIER #FST-851H	7270-0028:196	
					PROFESSIONA
	ММ	MONITOR MODULE	NOTIFIER #FMM-1	7300-0028:219	W. CARLO
The product rule station The product rule rule rule rule rule rule rule rule	RM	RELAY MODULE	NOTIFIER #FRM-1	7300-0028:219	
The ALL CONTRACT MANY INCL. WHELCOCK ALLENG: 1735-0795301 CONTRACT, CONTRAC	HZ	MANUAL PULL STATION	NOTIFIER #NBG-12LX	7150-0028:199	S MI
	HZP		WHEELOCK #LHSR3	7135-0785:501	OF CALIFORN
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FIRE ALARM FLOOR PLAN AND SYSTEM INFORMATION



Borrelli & Associates, Inc. Consulting Electrical Engineers 2032 N. Gateway Boulevard Fresno, CA. 93727 Phone: 559-233-4138 http://www.borrelliengineering.com/ ca-bai@borrelliengineering.com BAI# 20141

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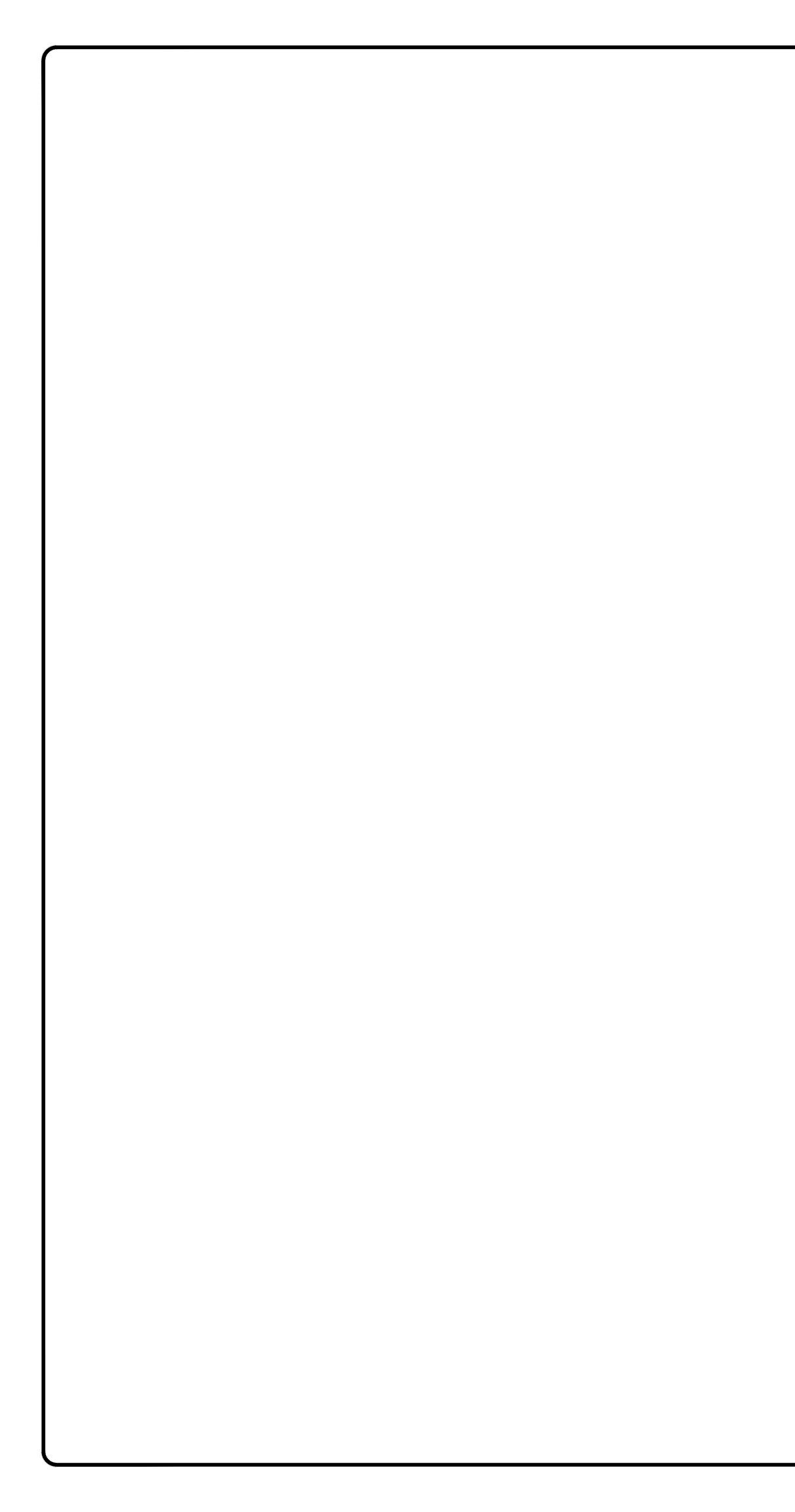
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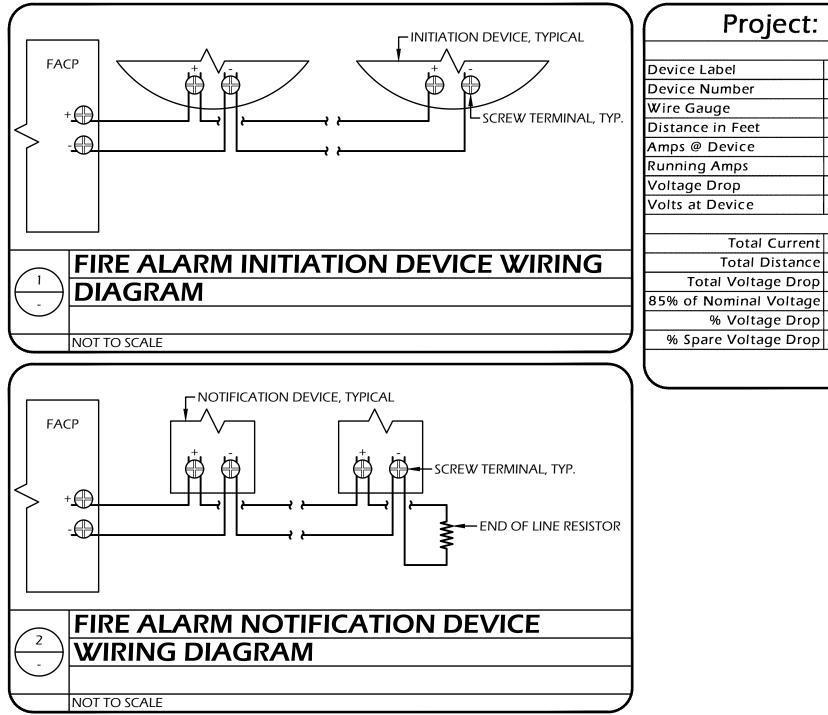
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EXP. 6/30/23

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Borrelli & Associat Consulting Electrical Enginee 2032 N. Gateway Boulevard Fresno, CA. 93727 Phone: 559-233-4138 http://www.borrelliengineering.co ca-bái@borrelliengineering.c BAI# 20141

	REVISIONS
	E D C E V G G R O U P Fresno, CA 93720 FAX (559) 431-1362
	L A W R E N C E E N G I N E E R I N G G R O U P 7084 N. Maple Ave., Suite 101 (559) 431-0101 (559) 431-0101
	TITLE: FIRE ALARM CALCULATIONS, VOLTAGE DROPS, AND
eering.com/ c.com	DETAILS DETAILS SHEET: E3.04 PROJECT 21052

Device Type: FACP		Amount		Supv. I	Supv. I _T	Alarm I	Alarm I _T
Fire Alarm Control Panel			1	0.1910	0.1910	0.3070	0.307
Remote Annunciator				0.0400	0.0400	0.0400	0.040
Pull station			2	0.0004	0.0008	0.0050	0.010
Smoke Detector			4	0.0004	0.0014	0.0069	0.027
Hattic Heat Detector			4	0.0003	0.0012	0.0068	0.027
Relay Module			2	0.0004	0.0008	0.0004	0.000
Monitor Module			1	0.0003	0.0003	0.0051	0.005
15cd Wall Horn & Strobe	AV15	1	1	0.0000	0.0000	0.0340	0.0340
30cd Wall Horn & Strobe	AV30	0	0	0.0000	0.0000	0.0460	0.000
75cd WallHorn & Strobe	AV75	0	0	0.0000	0.0000	0.1050	0.000
15cd Ceiling Horn & Strobe	AV15C	0	0	0.0000	0.0000	0.0440	0.000
30cd Ceiling Horn & Strobe	AV30C	0	0	0.0000	0.0000	0.0610	0.000
75cd Ceiling Horn & Strobe	AV75C	1	1	0.0000	0.0000	0.1690	0.169
Totals					0.2354		0.620
Minimun runtime on batteries				24	HRS	15.0000	MIN.
Subtotal battery standby (Amp-Hou	rs)				5.6498		0.155
Total battery standby (Amp-Hours)							5.805
125% Safety Factor							125.009
Minimum Capacity (Amp-Hours)							7.256
Battery Size (Amp-Hours)							

	0.038	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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ор	=	0.25	%	AV75	LHSR3	Horn/Strobe	2	10	1.018	10380
ор	-	21.32	%	AV110	LHSR3	Horn/Strobe	2	12	1.59	6530
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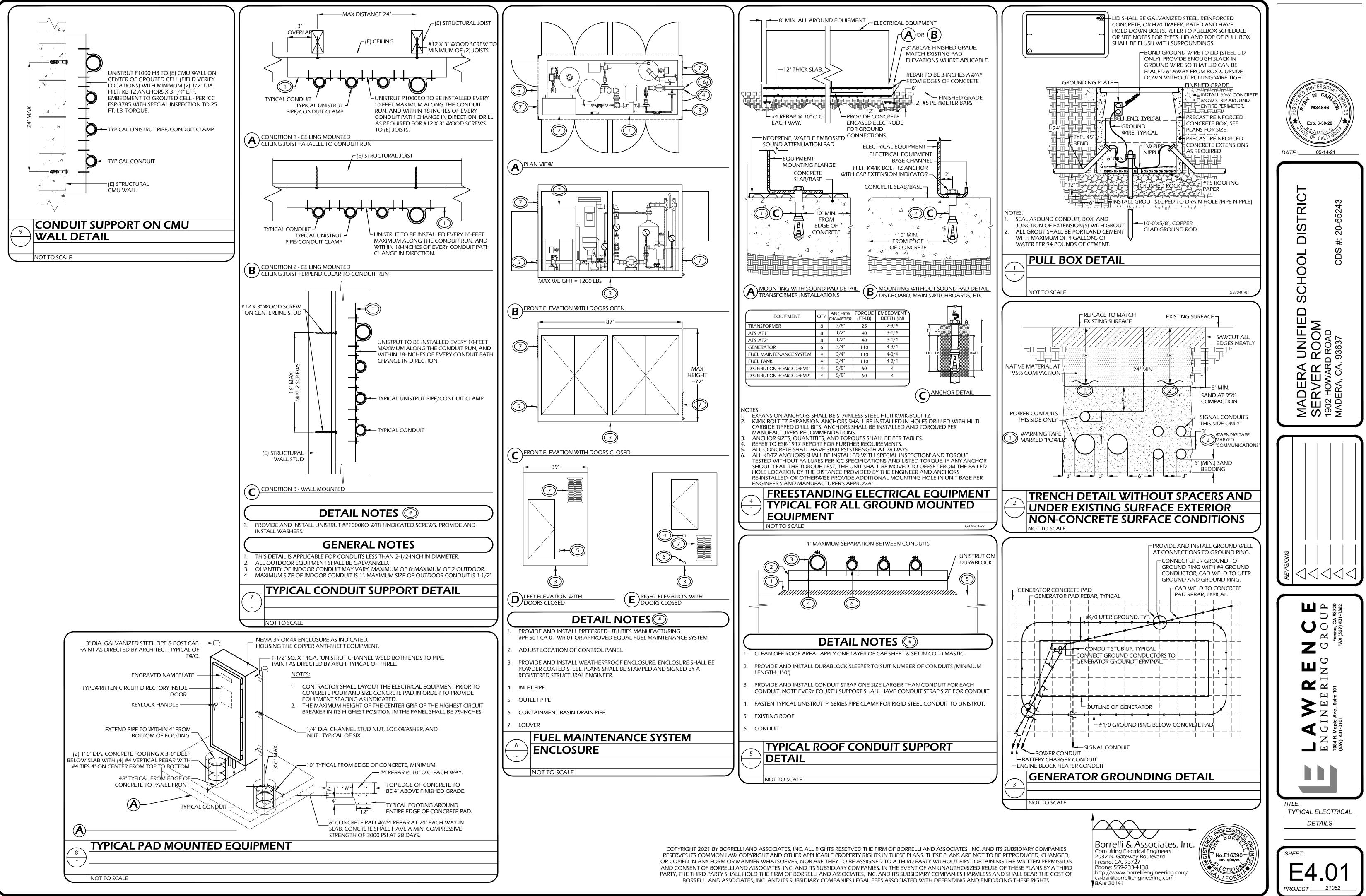
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0.0008	0.0004	0.0008		
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SCHOOL

MADERA UNIFIED S SERVER ROOM 1902 HOWARD ROAD MADERA, CA. 93637

CDS

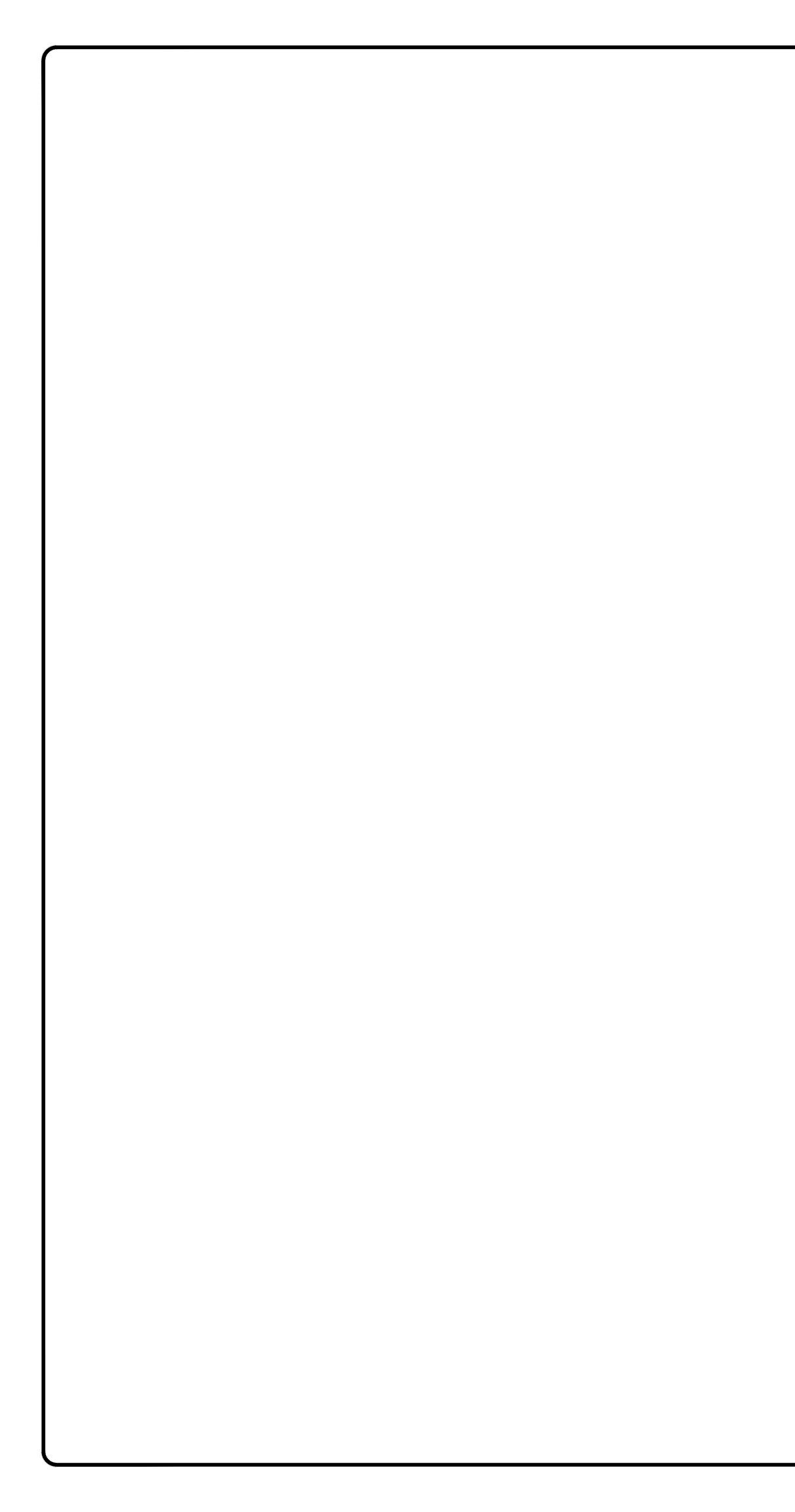
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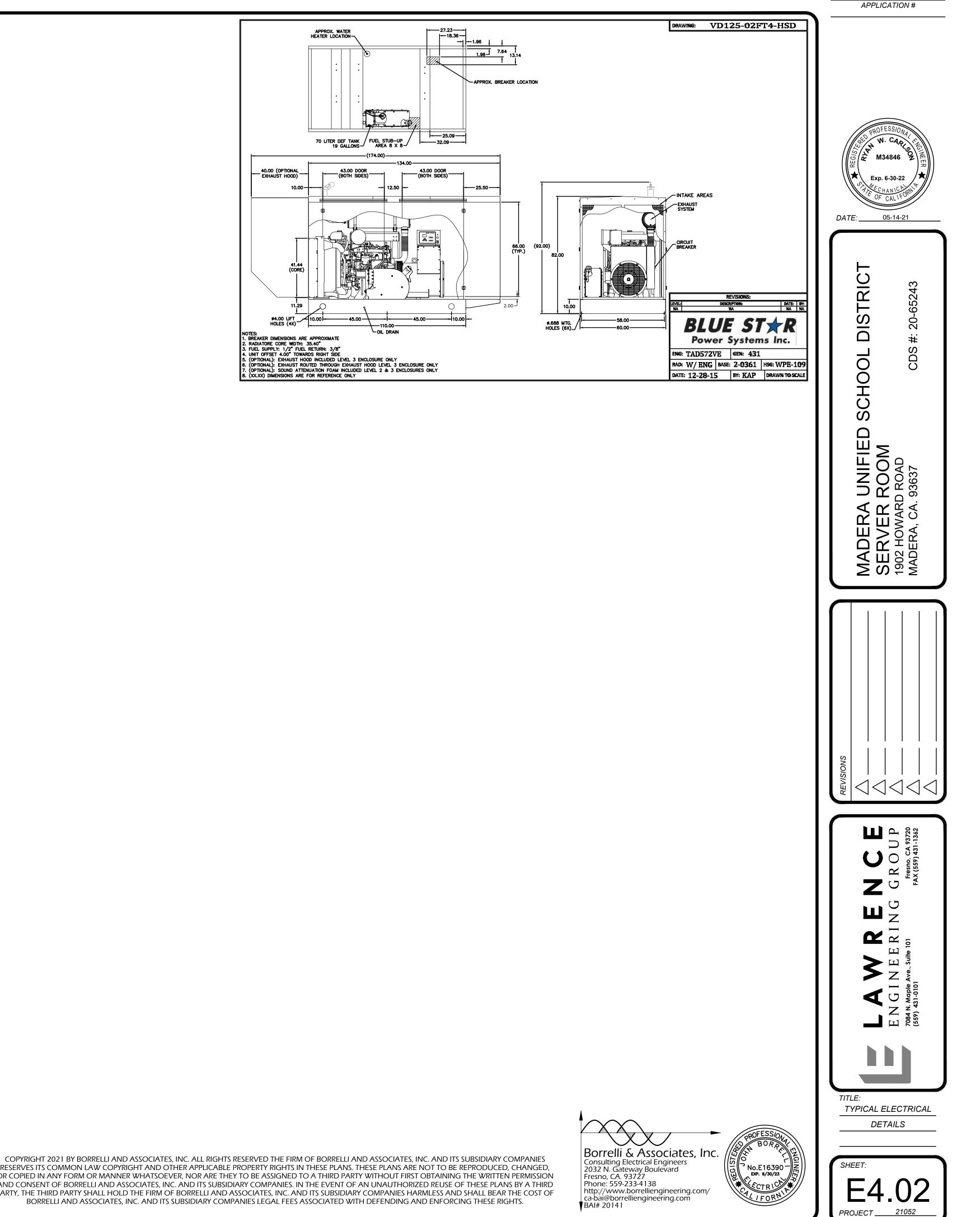


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APPROVALS:

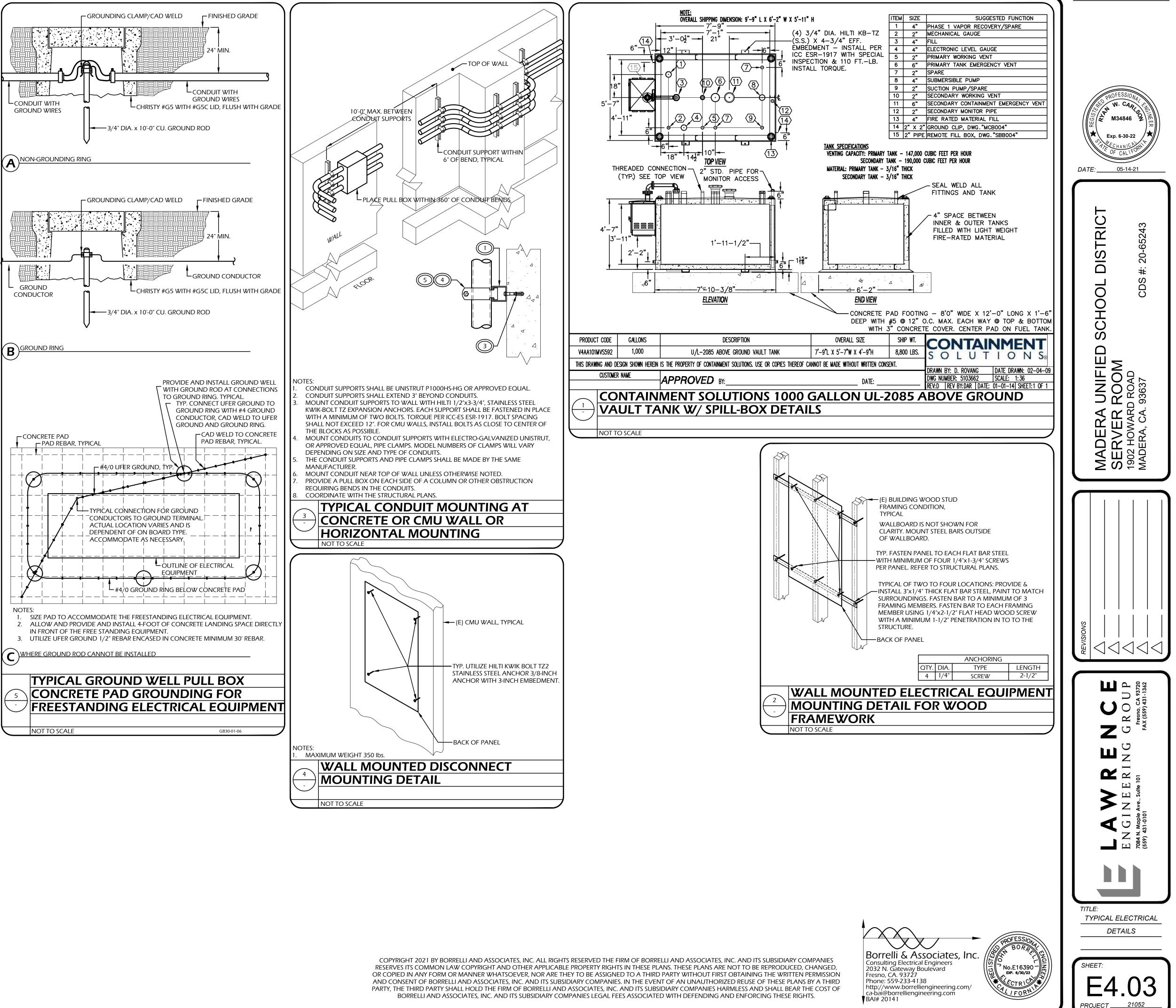
APPLICATION #





APPROVALS:

RESERVES ITS COMMON LAW COPYRIGHT AND OTHER APPLICABLE PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED, OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO A THIRD PARTY WITHOUT FIRST OBTAINING THE WRITTEN PERMISSION AND CONSENT OF BORRELLI AND ASSOCIATES, INC. AND ITS SUBSIDIARY COMPANIES. IN THE EVENT OF AN UNAUTHORIZED REUSE OF THESE PLANS BY A THIRD PARTY, THE THIRD PARTY SHALL HOLD THE FIRM OF BORRELLI AND ASSOCIATES, INC. AND ITS SUBSIDIARY COMPANIES HARMLESS AND SHALL BEAR THE COST OF BORRELLI AND ASSOCIATES, INC. AND ITS SUBSIDIARY COMPANIES LEGAL FEES ASSOCIATED WITH DEFENDING AND ENFORCING THESE RIGHTS.



APPROVALS:

APPLICATION #

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STATE OF CALIFORNIA Outdoor Lighting NRCC-LTO-E (Created 11/19) CERTIFICATE OF COMPLIA Project Name: Madera Project Address: 1902 Ho

G. CUTOFF REQUIREM This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS

Mandatory Controls

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

STATE OF CALIFORNIA Outdoor Lighting NRCC-LTO-E (Created 11/19) CERTIFICATE OF COMPLIA Project Name: Madera Project Address: 1902 Ho

> 02 Area Description HARDSCAPE

J. LIGHTING ALLOWAN This Section Does Not App

K. LIGHTING ALLOWAN This Section Does Not App

L. LIGHTING ALLOWAN This Section Does Not App

M. LIGHTING ALLOWA This Section Does Not App

N. EXISTING CONDITIC This Section Does Not Apply

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

8		CALIFORNIA ENERGY COMMISSI19
LIANCE		NRCC-LTO-E
ra Unified School District Server Room	Report Page:	Page 3 of 6
Howard Road Madera, CA. 93637	Date Prepared:	6-17-2021
	i.	
MENTS (BUG)		2

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.

Mandatory Controls											
01	02			03			04			0	5
Area Description	Shut-Off			Auto-Schedule			otion S			Field In	spector
5	<u>§130.2(c)1</u>			<u>§130.2(c)2</u>			<u>§130.2</u>			Pass	Fail
HARDSCAPE	Photocontrol			Yes	•	E	Exempt	*	-		
*NOTES: Controls with a * require a no EX: Not permitted by health & safety to	-	1.000	0.00	is achieved.							
HARINGAPE	EXCEPTION 1 to Section 130 required to have motion ser			th a maximum rated v	vattage	of 40 watts ea	ich are	not			
						Reset		Add Row		Remov	ve Last
I. LIGHTING POWER ALLOWANCE (per <u>§140.7)</u>										?
Table Instructions: Please complete this						01					
allowance calculations per <u>§140.7</u> . Ger				"נ	Jse it or	lose it" Allowa	ances (select all that a	apply)	
is per <u>Table 140.7-A</u> while "Use it or los <u>Table 140.7-B</u> . Indicate which allowanc expand sections for user input. Lumina the "Use it or lose it" allowances shall n	es are being used to ires that qualify for one of	🖌 Ha	ieneral Irdscape Iowance	Per Application	Sa	ales Frontage		Ornamental		Per Spe	cific Area
it or lose it" allowance.		Table I	(below)	Table J	-	Table K	i	Table L		Table	М
Calculated General Hardscape Lighting	Power Allowance per Table	140.7-A (L	Z 2 & 3)	•							
Table Continued											

ocy Stand	ards - 2019 Nonresider	atial Compliance: htt	n.//www.energy.co	gov/title2/	/2019cta	ndards			November 2019
icy Stariu	ards - 2015 Nonresider		.p.// www.energy.ca.	gov/titlez+	/2013314	illarus			November 2015
5									
IANCE								CALIFORNIA ENERGY CO	NRCC-LTO-E
	d School District Serv	ver Room			Report	Page.			Page 4 of 6
	Road Madera, CA. 93				8	epared:			6-17-2021
	,								
	03	04	05	06		07	08	09	10
		Area V	Vattage Allowance	(AWA)		Linear	Wattage Allowanc	e (LWA)	Total General
'n	Surface Type	Illuminated	Allowed Density	Area Allo	wance	Perimeter	Allowed Density	Linear Allowance	AWA + LWA
	2	Area (ft²)	(W/ft²)	(Wat	ts)	Length (If)	(W/lf)	(Watts)	(Watts)
	Asphalt 🔽	896.4	0.025	22.4	11	120.4	0.25	30.1	52.51
]							0
							Reset	Add Row	Remove Last
						Initial Wattag	e Allowance for E	ntire Site (Watts):	
						Total Ge	neral Hardscape A	llowance (Watts):	52.51
NCE: PI	ER APPLICATION								2
pply									
NCE: S	ALES FRONTAGE								2
pply									
NCE: O	RNAMENTAL								2
pply									
	PER SPECIFIC AREA	•							2
pply									
									_
ONS PC	OWER ALLOWANCI	E (alterations on	ly)						2
and a second second second									

STATE OF CALIFOR		ting												COVER TO A
NRCC-LTO-E (Creat													CALLEORN	IA ENERGY COMMISSION
CERTIFICATE O		3320											O, LI O III	NRCC-LTO-I
This document	is u	sed to demon	strc	ite compliance	e wi	th requirement	s in	§110.9, §130.0,	§130.2, §140.	<mark>7</mark> , an	d <u>§141.0(b)2L</u> for ou	tdoo	r lighting scopes u	sing the prescriptive path.
Project Name:	N	/ladera Unifie	ed So	chool District S	Serv	er Room			Re	eport	Page:			Page 1 of 6
Project Addres	s: 1	902 Howard	Roa	d Madera, CA.	93	637			Da	ate Pi	repared:			6-17-202
A. GENERAL	NFG	ORMATION												2
01 Project Lo	ocat	ion (city)				Made	era		04 Total III	lumir	ated Hardscape Are	a (ft ²	²)	896.4
02 Climate Z	one					13						•	•	
03 Outdoor	Ligh	ting Zone per	Titl	e 24, Part 1 §1	LO-1	.14 or as desigr	nate	ed by Authority Ha	aving Jurisdic	tion (AHJ):			
LZ-0: Very	Low	- Undevelop	ed F	Parkland 📃 L	Z-2	: Moderate - Ri	ural	l Areas	LZ-4: Hig	gh - N	lust be reviewed by	CA E	nergy Commission	for Approval
LZ-1: Low -	Dev	veloped Parkl	and	🗸 L	Z-3	: Moderately H	igh	- Urban Areas						
B. PROJECT S	CO	PE												2
Table Instruction	ons:	Include any c	outa	loor lighting sy	ste	ms that are wit	hin	the scope of the	permit applic	ation	and are demonstrat	ting d	compliance using t	
outlined in <u>§14</u>														
My project cor	nsist	s of:												
		01									02			
New Light	ting	System				Must Comply	wit	h Allowances fron	n <u>§140.7</u> .					
🖌 Altered Li	ghti	ng System			2	ls your alterat	ion	increasing the co	nnected light	ing lo	oad (Watts)?		💽 Yes	🔘 No
		03						04					05	
% of Exi	stin	g Luminaires	Beir	ng Altered ¹		Sum Total o	f Lu	uminaires Being A	dded or Alter	ed			Calculation Meth	bo
Please procee	d to	Table F. Outo	doo	r Lighting Fixti	ure	Schedule to de	fin	e the project's lui	ninaires.					
¹ FOOTNOTES:	%0	f Existing Lum	nina	ires Being Alte	red	= (Sum Total o	fLι	uminaires Being A	dded or Alter	ed / E	Existing Luminaires w	vithir	n the Scope of the I	Permit Application) x 100
C. COMPLIAN	ICE	RESULTS												2
Table Instructi	ons:	If any cell on	this	s table says "D	OES	NOT COMPLY	" oi	r "COMPLIES with	Exceptional (Condi	tions" refer to Table	D. fc	or guidance.	<u>~</u>
-	Cal	culation of To	otal	Allowed Light	ing	Power (Watts	§1	140.7 or §141.0(b)	2L				Compliance Resu	lts
01		02		03		04		05	06		07		08	09
General		Dev		Calaa				Den Creestfie	E-dealer a				Constant of A	(SLD)
Hardscape	+	Per Application	+	Sales Frontage	+	Ornamental	+	Per Specific Area OR	Existing Power	=	Total Allowed	≥	Total Actual	
Allowance		§140.7(d)2		§140.7(d)2	0.00	<u>§140.7(d)2</u>	0.00	§140.7(d)2	§141.0(b)2L		(Watts)	-	(Watts)	07 Must be ≥ 08
<u>§140.7(d)1</u>						(0, 7, 1, 1, 1)						-		
(See Table I)	2	(See Table J)		(See Table K)		(See Table L)		(See Table M)	(See Table N	•	FD 54		(See Table F)	COMPLIES
52.51	+		+		+		+			=	52.51	≥	44	COMPLIES
								ompliance (See Ta					Not Applicable	
						Control	s Co	ompliance (See Ta	able H for Det	tails)	CON	IPLIE	S with Exceptiona	I Conditions

CA Building	Energy Efficiency Standar	ds - 2019 Nonre	esidential Comp	liance: <u>http://www.</u>	energy.ca.gov/t	itle24/2019standards				Novemb	er 2019
STATE OF CAI	LIFORNIA										
	or Lighting								CALIFORNIA ENERGY CON	MMISSI19	
	TE OF COMPLIANCE										C-LTO-E
Project Na	me: Madera Unified	School Distric	t Server Room			Report Page:				Pag	e 2 of 6
Project Add	dress: 1902 Howard Ro	ad Madera, C	A. 93637			Date Prepared:				6-1	17-2021
D. EXCEP	TIONAL CONDITIONS										?
This table	is auto-filled with unedi	table commer	nts because of	selections made o	r data entered	l in tables throughout	the form.				
HARDSC	utdoor Lighting Control: APE: EXCEPTION 1 to Se made in Table O have b	ection 130.2(c)3: Luminaires						on sensing controls		
e. additi	ONAL REMARKS										2
	includes remarks made	by the permit	applicant to ti	he Authority Havin	ng Jurisdiction.						
	DOR LIGHTING FIXTUR		F								?
existing lu method pe	ructions: For new or alte minaires remaining or b er <u>§141.0(b)2L</u> (ie Table include existing luminal	eing moved w N has expand	vithin the spac ed for input), i	es covered by the p nclude only new lu	permit applico uminaires bein	ntion in the Table below	w. For alte	red lighting syst	tems using the Existi	ng Powe	er
Designed	Wattage:										
01	02		03	04	05	06	07	08	09	10	0
Name or Item Tag	Complete Luminaire	Description	Watts per luminaire ^{1,2}	How Wattage is determined	Total number	Luminaire Status ³	Excluded per	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output	Field In:	spector
		1			luminaires ²		§140.7(a)		§130.2(b) ⁴	Pass	Fail
E	2,647 Lumens LED	Linear	22	Mfr. Spec ¹	2	New 🔽		44	NA: <6,200 lume		
						Total Design	ned Watts:	44			
	Selections with a * requ aire is lighting a statue;			w explaining how o	compliance is	achieved.					
								Reset	Add Row	Remov	re Last
² For linea luminaires	TES: Authority Having Ju r luminaires, wattage sh s. lew" for new luminaires	nould be indic	ated as W/If in	stead of Watts/lu	minaire. Tota	l linear feet for the lun	ninaire sho	uld be indicated			
"Existing to being rem	o Remain" for existing h oved and reinstalled as nee with mandatory cuto	uminaires with part of the pro	hin the project oject scope	scope that are no	ot being altered	d and are remaining	Select "Exis	ting Reinstalled			

CA Building	Energy Efficiency Standard	ds - 2019 Nonre	esidential Comp	liance: <u>http://www.</u>	energy.ca.gov/t	itle24/2019standards				Novemb	oer 202
STATE OF CAL	IFORNIA										
Outdoo	r Lighting										
	Created 11/19) TE OF COMPLIANCE							1	CALIFORNIA ENERGY COM		C-LTC
Project Nar		School District	Server Room			Report Page:				0.00000	ge 2 o
	dress: 1902 Howard Ro					Date Prepared:					17-20
	FIONAL CONDITIONS					Ac.					6
	is auto-filled with unedit	able commen	ts because of	selections made o	r data entered	l in tables throughout	the form.				
HARDSC	utdoor Lighting Controls APE: EXCEPTION 1 to Se	ction 130.2(c)	3: Luminaires						on sensing controls		
Selections	made in Table O have b	een changed	by the permit	applicant. See la	ble E. Addition	hal Remarks for permi	t applicant'	s explanation.			
E. ADDITI	ONAL REMARKS										(
This table i	includes remarks made i	by the permit	applicant to ti	he Authority Havin	ng Jurisdiction.						
F. OUTDO	OOR LIGHTING FIXTUR		2								6
existing lui method pe	uctions: For new or alte minaires remaining or b er <u>§141.0(b)2L</u> (ie Table i include existing luminai	eing moved w N has expand	vithin the space ed for input), i	es covered by the p nclude only new lu	permit applica Iminaires bein	ntion in the Table belo	w. For alte	red lighting syst	tems using the Existi	ng Pow	er
Designed \	Wattage:								97		
01	02		03	04	05	06	07	08	09	1	.0
Name or Item Tag	Complete Luminaire I	Description	Watts per luminaire ^{1,2}	How Wattage is determined	Total number	Luminaire Status ³	Excluded per	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output	Field In	spect
					luminaires ²		<u>§140.7(a)</u>		§130.2(b) ⁴	Pass	Fai
E	2,647 Lumens LED	Linear	22	Mfr. Spec ¹	2	New 💌		44	NA: <6,200 lume		
						Total Design	ned Watts:	44			
	Selections with a * requi nire is lighting a statue;			w explaining how o	compliance is	achieved.					
	ine is nyitting a statue, i	LACEPTION 2	to <u>9150.2[b]</u> .					Reset	Add Row	Remo	velas
	TES: Authority Having Ju r luminaires, wattage sh							0.0(c)		No. other	
³ Select "N "Existing to being remo	ew" for new luminaires o Remain" for existing lu oved and reinstalled as p nee with mandatory cuto	uminaires with part of the pro	hin the project bject scope	scope that are no	t being altere	d and are remaining.	Select "Exis	ting Reinstalled			

Designed V	Vattage:		
01	02		
Name or Item Tag	Complete Luminaire De	escription	W Iur
E	2,647 Lumens LED	Linear	

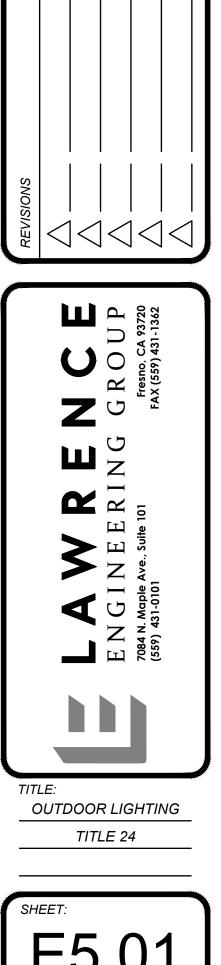
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

November 2019

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Borrelli & Associates, Inc. Consulting Electrical Engineers 2032 N. Gateway Boulevard Fresno, CA. 93727 Phone: 559-233-4138 http://www.borrelliengineering.com/ ca-bai@borrelliengineering.com BAI# 20141



APPROVALS:

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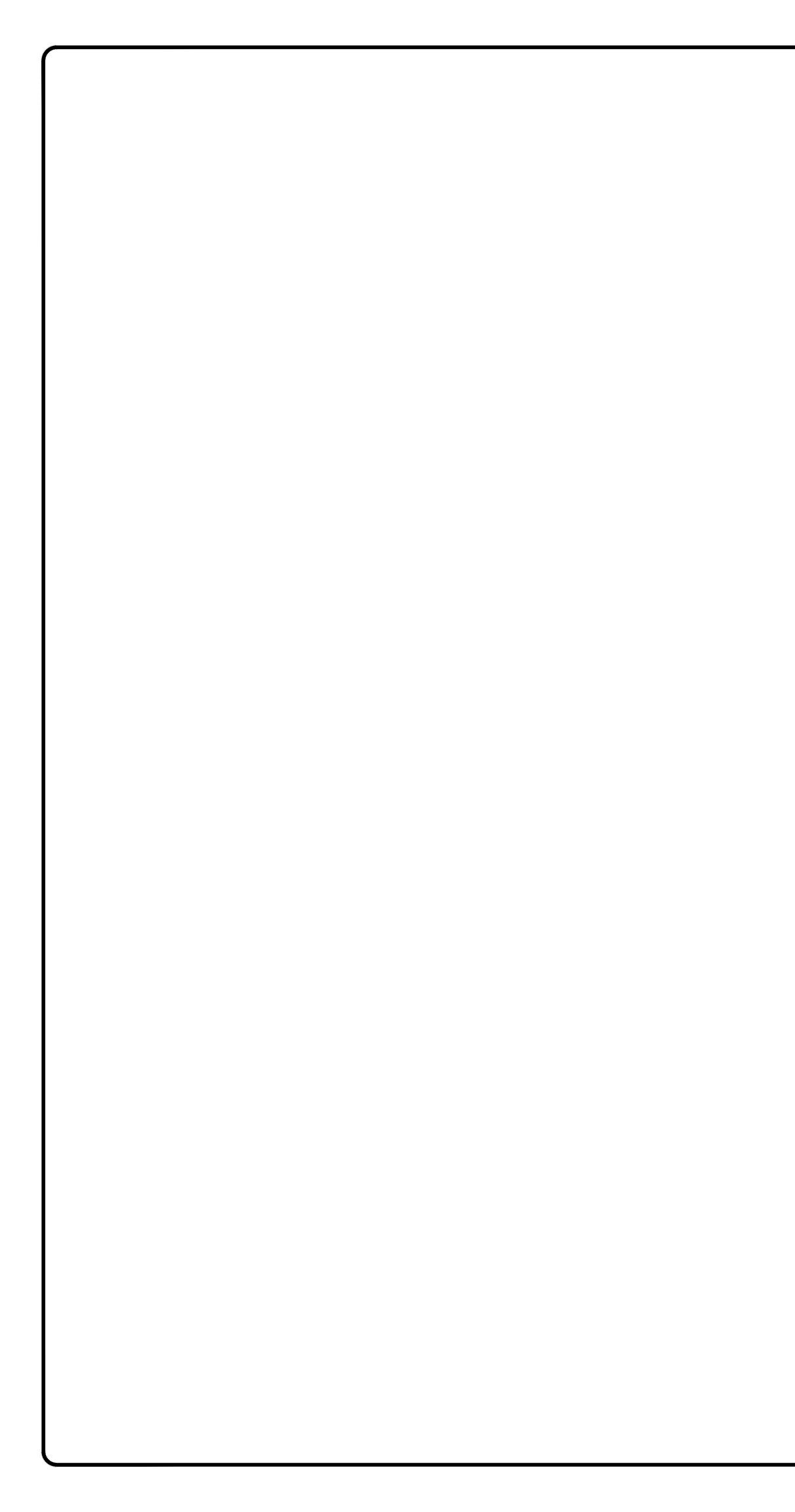
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STATE OF CALIFORNIA **Outdoor Lighting** NRCC-LTO-E (Created 11/19) CERTIFICATE OF COMPLIANCE Project Name: Madera Unified School District Serve Project Address: 1902 Howard Road Madera, CA. 936

O. DECLARATION OF REQUIRED CERTIFICATES C Table Instructions: Selections have been made based Table E. Additional Remarks. These documents must l title24/2019standards/2019_compliance_documents YES NO NRCI-LTO-01-E - Must be sub • NRCI-LTO-02-E - Must be sub 0 ۲ recognized for compliance. P. DECLARATION OF REQUIRED CERTIFICATES O

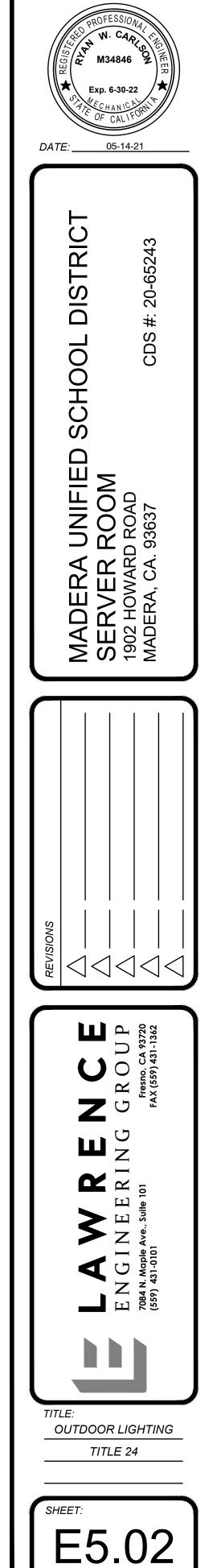
I DECE du		REQUIRED CERTIFICATED
Table E. Add	litional Rei	ections have been made base marks. These documents mus ATTCP). For more informatic
YES	NO	
۲	0	NRCA-LTO-02-A - Must be luminaires.

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

	LIANCE		CALIFORNIA ENERGY COMMISSION	C-LTO-E
	era Unified School District Server Room	Report Page:		ge 6 of 6
oject Address: 1902	Howard Road Madera, CA. 93637	Date Prepared	: 6-	17-2021
OCUMENTATION A	UTHOR'S DECLARATION STATEMENT			2
certify that this Certifi	icate of Compliance documentation is accurate and cor	nplete		
ocumentation Author		Documentation Author S	ignature:	
ompany:	Borrelli and Associates, Inc.	Signature Date:		
ddress: ity/State/Zip:	2032 N. Gateway Boulevard Fresno, CA 93727	CEA/ HERS Certification I Phone:	dentification (if applicable): 559-233-4138	
 The information pro I am eligible under I Compliance (respon The energy features Certificate of Compl The building design compliance docume I will ensure that a compliance 	isible designer) s and performance specifications, materials, componen liance conform to the requirements of Title 24, Part 1 features or system design features identified on this (ents, worksheets, calculations, plans and specifications completed signed copy of this Certificate of Complianc	rrect. ept responsibility for the building d nts, and manufactured devices for t and Part 6 of the California Code of Certificate of Compliance are consis s submitted to the enforcement age ce shall be made available with the	esign or system design identified on this Certificate of the building design or system design identified on this Regulations. tent with the information provided on other applicabl ency for approval with this building permit application building permit(s) issued for the building, and made av Certificate of Compliance is required to be included wit	e vailable
	builder provides to the building owner at occupancy.			
Responsible Designer N		Responsible Designer Sig	nature:	
Company : Address:	Borrelli and Associates, Inc.	Date Signed:	E4C200	
City/State/Zip:	2032 N. Gateway Boulevard Fresno, CA 93727	License: Phone:	E16390 559-233-4138	
CA Building Energy Efficie	ency Standards - 2019 Nonresidential Compliance: <u>http://www</u>	w.energy.ca.gov/title24/2019standards	Novemi	per 2019
CA Building Energy Efficie	ncy Standards - 2019 Nonresidential Compliance: http://www	w.energy.ca.gov/title24/2019standards	Novem	per 2019

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				NRCC-LTO-E
ver Room	Report Page:	Page 5 of 6		
637	Date Prepared:	6-17-2021		
OF INSTALLATION				
l on information provided in previous tables of this document. If any selection needs to be changed, please explain why in be provided to the building inspector during construction and can be found online at <u>https://www.energy.ca.gov/</u> s/Nonresidential_Documents/NRCI/				
Form/Title		Field Inspector		
		Pass	Fail	
bmitted for all buildings.				
bmitted for a lighting control system; or for an Energy Management Control System (EMCS), to be				
DF ACCEPTANCE				
on information provided in previous tables of this document. If any selection needs to be changed, please explain why in be provided to the building inspector during construction and must be completed through an Acceptance Test Technician visit: <u>http://www.energy.ca.gov/title24/attcp/providers.html</u>				
Form/Title		Field Inspector		
		Pass	Fail	
ubmitted for all outdoor lighting controls except for alterations where controls area added to \leq 20				



PROJECT _____21052

November 2019

APPROVALS:

APPLICATION #