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	SIGN DRAWING SHEETS8. GN-IGENERAL NOTES9. SD-ISIGN DETAILS10. SD-2SIGN DETAILS11. ED-IELECTRICAL DETAILS			T I R F
	General Notes			ΤΕC
* MODERN- IZED	 THE LATEST ADOPTED EDITIONS OF CODES, STANDARDS, AND REGULATION: REQUIRED BY THE LOCAL JURISDICTION SHALL GOVERN ALL WORK SHOWN CONSTRUCTION DOCUMENTS. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE LATEST ADOPTED 	S IN EDITIONS		ГНО с
60558 60558 60558	OF THE CALIFORNIA BUILDING CODE (CBC) TITLEOR BY DSA WHICH INCLUDI CALIFORNIA ADMINISTRATIVE CODE (CAC) PART I, TITLE 24, CALIFORNIA CODE 2019 OF REGULATIONS (CCR) CALIFORNIA BUILDING CODE VOL. 1\$2 2019	ES:	1465 North Van Ness Fresno, California g 559.442.4642 voice	Avenue 3728
60558 60558	PART 2, TITLE 24, CCR (2018 IBC WITH CALIFORNIA AMENDMENTS) CALIFORNIA ELECTRICAL CODE PART 3, TITLE 24, CCR (2017 NEC WITH CALIFORNIA AMENDMENTS) CALIFORNIA MECHANICAL CODE (CMC) 2019			Architect
7	PART 4, TITLE 24, CCR (2018 IAPMO UMC WITH CALIFORNIA AMENDMENTS) CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24, CCR (2018 IAPMO UPC WITH CALIFORNIA AMENDMENTS) CALIFORNIA ENERGY CODE PART 6, TITLE 24, CCR 2019		e Sign F le Scho Street	19325/
	(2019 CALIFORNIA ENERGY COMMISSION BUILDING ENERGY EFFECIENCY STANDARDS) CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24, CCR (2018 IFC WITH CALIFORNIA AMENDMENTS) CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2018 INTERNATIONAL EXISTING BUILDING CODE AND CALIFORNIA AMENDMENTS)		Marquee lett Midd Vorth 'G'	
	CALIFORNIA GREEN CODE PART II, TITLE 24, CCR CALIFORNIA REFERENCED STANDARS CODE PART 12, TITLE 24, CCR NFPA 13-2016 NFPA 12-2016 REFERENCE CODE SECTION FOR APPLICABLE STANDARDS		Project New 335 D	
tor: EON SIGN CO. INC. LINTON AVE. CALIFORNIA 93727 59) 292-2944 KC Rutiaga Presnoneon.com	 ALL ERENCE CODE SECTION FOR APPEICABLE STANDARDS 2019 CFC, CHAPTER 35 2019 CFC, CHAPTER 80 CALIFORNIA FIRE CODE CHAPTER 80 3. THESE DRAWINGS SHALL BE CONSIDERED SUBSTANTIALLY COMPLETE. HOW IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE ALL L AND MATERIALS NECESSARY TO RENDER THE WORK COMPLETE, AS IS THE OF THESE DRAWINGS, EITHER SHOWN OR INFERRED HEREIN, THROUGH PROPE ESTABLISHED CONSTRUCTION PRACTICES. 4. CONSTRUCTION DOCUMENTS (DRAWINGS) ARE NOT TO BE SCALED. WRITTEN DIMENSIONS SHALL GOVERN. 5. ANY AND ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF T ARCHITECT FOR RESOLUTION PRIOR TO COMMENCEMENT OF ANY WORK. AL NOTIFICATIONS TO THE ARCHITECT SHALL BE SUBMITTED IN TYPE WRITTEN F 6. GENERAL CONTRACTOR SHALL VISIT THE PROJECT SITE AND VERIFY ALL E BUILDING & SITE DIMENSIONS FOR ACCURACY WITH CONSTRUCTION DOCUME CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO SUBMISSION OF BIDS AND START OF CONSTRUCTION. 	NEVER, IT ABOR INTENT R I I I I I I I I I I I I I I I I I I	erville Unified ool District W. Grand Avenue	
	 ANY SUCH PROPOSED STORAGE WILL REQUIRE PLANS SUBMITTED FOR REVI APPROVAL AND ISSUANCE OF PERMITS (CFC 315). 8. NO SUBSTITUTIONS ALLOWED EXCEPT BY ADDENDA THROUGH DSA. 9. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWI APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART I, TITLE 2 10. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DIST 	NER) AND K. THE 24, CCR. STRICT		5
	 (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR PROJECT. II. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK CALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANTITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED E CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WIT 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WIND AND SPECIFICATIONS. 	THE OF THE NCE WITH N OR BY THE TH TITLE OF ORK	Publishing Status Schematic Design Developm't.	5/7/2020
PROJECT LOCATION	 WORK. (SECTION 4-317(C), PART I, TITLE 24, CCR) I2. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREM AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL L ORDINANCES. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE M 	1ENTS _OCAL	Bidding	
	BY AN ADDENDUM OR A CONSTRUCTION CHANGED DOCUMENT (CCD) APPRO BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-3: PART I, TITLE 24 CCR 14. TESTING LAB TO BE DSA/LEA LABORATORY EVALUATION ACCEPTANCE PRO APPROVED.	OVED 38, OGRAM	Plan Check Revisions	10/12/20
	Project Description			
	 THIS PROJECT IS SPECIFIC TO THE INSTALLATION OF ONE NEW PRE-MANUFACTURE PYLON SIGN AND ASSOCIATED POWER. I. ELECTRICAL PANEL IS EXISTING AND HAS ADEQUATE CAPACITY TO SERVE "PYLON SIGN. 2. EXCAVATION IS LIMITED TO THE FOUNDATION. PEDESTRIAN PATHS OF TRAV NOT EFFECTED BY THIS WORK. 	ED THE NEW /EL ARE		
	Project Data		Scale AS NOTED	
NORTH	ADDRESS: 335 NORTH 'G' STREET PORTERVILLE CA 93703 OWNER: PORTERVILLE UNIFIED SCHOOL DISTRICT DISTRICT CODE: 75523 OPSC PTN: 735523-67 APN#: 252-240-008, 252-240-018, AND 252-232- DSA FILE#: 54-76 DSA APP. #: 02-118589	-001	Project Manager IAN ROBERTSON Project Number 19-051	
-			Sheet Lot II	

Cover Sheet

T-1.0

хорисаоте ч	Code: 2019 CBC	02	/05/2020
MEP Com	ponent Anchorage	Note	
All mechar approved o displacement 16 Chapter	nical, plumbing, and e construction docume ent requirements pre rs 13, 26, and 30:	electrical components nts. The following con scr bed in the 2019 C	shall be anchored and installed per th nponents shall be anchored or braced BC Sections 1617A,1.18 through 161
1. Ait	permanent equipme	nt and components.	
2. Ter util con	mporary, movable or ity services such as practions except plug	mobile equipment the electricity, gas or v as for 110/220 volt rec	at is permanently attached (e.g. hard vater. Permanently attached shali septacles having a flexible cable.
3. Ten foc: to b	mporary, movable or ated 4 feet or more at be restrained in a ma	 mobile equipment w pove the adjacent floa oner approved by DS 	thich is heavier than 400 pounds or l r or roof level that directly support the c
The following demonstration connection conne	ing mechanical and ate design complian is provided betwee is must allow movem	electrical component ce with the reference in the component a tent in both transvers	s shall be positively attached to the s res noted above. These component nd associated ductwork, piping, an e and longitudinat directions;
A. Cor the	mponents weighing i adjacent floor of roc	ess than 400 pounds If level that directly su	and having a center of mass located port the component.
B. Cor foo	mponents weighing a it, which are suspend	ess than 20 pounds, d led from a roof or floo	or in the case of distributed systems, le r or hang from a wall.
The ancho design proi by DSA, Ti with the ab	orage of all mechanic fessional in general r he project inspector v lave requirements.	cal, electrical and plu esponsible charge or will verify that all comp	mbing components shall be subject t structural engineer delegated respons poments and equipment have been an
Plaina. Du	actwork, and Electri	cal Distribution Sys	tem Bracino Note
Piping, due prescribed 2019 CBC	ctwork, and electrical I in ASCE 7-16 Sect , Sections 1617A.1.2	distribution systems a ion 13.3 as defined i M, 1617A.1.25 and 16	shall be braced to comply with the forc n ASCE 7-16 Sections 13.6.5, 13.6.6 \$37A.1.26.
The metho noted belor for 2013 Cl prior to the Record shi	od of showing bracin w, When bracing and BC or later), copies o e start of and during all verify the adequat	g and attachments to i attachments are bas- of the bracing system i the hanging and brac- cy of the structure to a	b the structure for the identified distri- sed on a preapproved installation guid installation guide or manual shall be a sing of the distribution systems. The s support the hanger and brace loads.
Mechanica	al Piping (MP), Mechi	anical Ducts (MO), Pl	umbing Piping (PP), Electrical Distribu
МР 🗋	MO 🗍 PP 🗋 E 🛣	Option 1: Detailed details.	on the approved drawings with projec
MP 🗌	MD 🗍 PP 🗌 E 🛄	Option 2: Shall con	aply with the applicable OSHPD Pre-A

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403-B

2019 ENERGY CODE – CERTIFICATES OF COMPLIANCE CHECKLIST

PERFORMANCE METHOD (for Prescriptive Method, use Form DSA 403-A)

PURPOSE

This checklist identifies the 2019 California Energy Code Certificates of Compliance to be submitted with the Plans as part of the plan review process for a conditioned building pursuing compliance through the Performance Method.

INSTRUCTIONS Check the appropriate boxes for all required forms pertaining to the submittal. All required information and mandatory measures must be specified in the plans, and all copies of the Certificates of Compliance required for the Project must be submitted in PDF form and a copy of the Certificates of Compliance must be provided in the Plans. The Prescriptive Certificates of Compliance are dynamic and expand or collapse based on the project scope.

For all conditioned buildings pursuing the Performance Method, the following forms are required with the submittal: Performance Certificate of Compliance (PRF), Commissioning (CXR), Solar (SRA), Outdoor Lighting (LTO), and Electrical Power Distribution (ELC). Indoor Lighting (LTI) is required if there is Indoor lighting in an unconditioned space. Plumbing (PLB) is required for each water heater specified in the Project. NRCC-LTS-E is required if internally illuminated or externally illuminated signs are specified either indoors or outdoors in the Project. NRCC-PRC-E is required for Covered Process specified in the Project, which includes computer rooms, data centers, elevators, escalators and moving walkways, laboratories, enclosed parking garages, commercial kitchens, refrigerated warehouses, commercial refrigeration, compressed air systems, or process bollers.

For questions about required Certificates of Compliance and compliance with the California Energy Code contact the Energy Standards Hotline – 1 (800) 772-3300; Outside California:(916) 654-5106. For additional information see <u>www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-</u> standards/2019-building-energy-efficiency-1

	R		NRCC-CXR-E Building Commissioning
COMMISSIONING	Р		Sheet # in the plans:
DEDEODMANOE	R		NRCC-PRF-E Performance Certificate
PERFORMANCE	Ρ		Sheet # in the plans:
INDOOR	R		NRCC-LTI-E Indoor Lighting
LIGHTING	Ρ		Sheet # in the plans:
OUTDOOR	R		NRCC-LTO-E Outdoor Lighting
LIGHTING	Р		Sheet # in the plans:
	R		NRCC-SRA-E Solar Ready
SULAR READY	P	Π	Sheet # in the plans:

ELECTRICAL			NROO-ELO-E Electric			
DISTRIBUTION	P		Sheet # in the plans:			
	R		NRCC-PLB-E Plumbir	ng		
PLUMBING	P		Sheet # in the plans:			
	R		NRCC-LTS-E Sign Lig	ghting		
SIGN LIGHTING	P		Sheet # in the plans:	CG-1		
COVERED	R		NRCC-PRC-E Covere	ed Process		
PROCESSES	Р		Sheet # in the plans:			
California Energy Co	de Bui	ilding	Energy Efficiency Star	dards.	Date:	05/08/20
Signature: <u>Ian</u>	an Rol	son				
Signature:	an Rol	son				

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RCC-UIS-E (CA	eated 13/191	3ANITC			NRCC-LT
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reviect Acier	esc: 500 ¥	V. Grand Ave. Portervilla, CA 93257	Date Prepared:		5/11
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CA Suilding Energy Efficiency Standards - 2019 Nonres dential Compliance: http://www.energy.ca.gow/ittle24/3019standards

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

Sign Lighting	2	
NRCC-,TS-E (Created	11/19)	
CERTFICATE OF (COMPLIANCE	
This (acument is	used to demonstrate compliance w	ith
poth. Exit signs a	and traffic signs are not required to	con
Projett Name:	Proposed Marquee Sign for Barlet	M
Project Address:	600 W. Grand Ave. Porterville, CA	93.
A. GENERAL IN	FORMATION	
01 Project Loca	ation (city)	
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03 🗍 8uilding	is a healthcare facility	
		~~ <u>~</u>
B. PROJECT SCO	DPE	
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<u>51408 of 5141.0</u>	<u>(b)2M</u> for alterations. Exit signs an	d tr
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Project Name: Proposed Marquee Sign for Barlett Middle School Report Page: Proposed Marquee Sign for Barlett Middle School Proposed Marquee Sign for School Proposed Marquee Schol Proposed Marquee School <th>Page 4 c 5/11</th> <th>ature: Kuberly Putraj 5/11/20</th> <th>Report Page: Date Prepared: nplete</th> <th>uee Sign for Barlett Middle School ve. Porterville, CA 93257</th> <th>Project Name: Proposed Marqu Project Address: 600 W. Grand A</th>	Page 4 c 5/11	ature: Kuberly Putraj 5/11/20	Report Page: Date Prepared: nplete	uee Sign for Barlett Middle School ve. Porterville, CA 93257	Project Name: Proposed Marqu Project Address: 600 W. Grand A
Project Address: 600 W. Grand Ave. Porterville, CA 93257 Date Prepared: DocUMENTATION AUTHOR'S DECLARATION STATEMENT Lecrify that this Certificate of Compliance documentation is accurate and complete Documentation Author Name: Kimberly Rutiaga Documentation Author Signature: Kubberty Putty Company: Fresno Neon Sigr Company Signature Date: 5/11/20 Address: 5901 E. Clinton Ave CEA/ HERS Certification Identification (if applicable): n/a City/State/Zip: Fresno C4.93727 Phone: 559-292-2944 RESPONSIBLE PERSON'S DECLARATION STATEMENT Lecrify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.	5/11	ature: Kenberly Putraj	Date Prepared:	DECLARATION STATEMENT	roject Address: 600 W. Grand A
Documentation Author's DECLARATION STATEMENT Decurrentation Author Name: Kimberly Rutiaga Documentation Author Signature: Kubercy Putrag Company: Fresno Neon Sign Company Signature Date: 5/11/20 Address: 5901 E. Clinton Ave CEA/ HERS Certification Identification (if applicable): n/a City/State/Zip: Fresno CA 93727 Phone: 559-292-2944 RESPONSIBLE PERSON'S DECLARATION STATEMENT Icertify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.		ature: Kenberly Putraj 5/11/20	nplete	DECLARATION STATEMENT	
Icertify that this Certificate of Compliance documentation is accurate and complete Documentation Author Name: Kimberly Rutiaga Documentation Author Signature: Subset Putty Company: Fresno Neon Sign Company Signature Date: 5/11/20 Address: 5901 E. Clinton Ave CEAV HERS Certification Identification (if applicable): n/a City/State/Zip: Fresno CA 93727 Phone: 559-292-2944 RESPONSIBLE PERSON'S DECLARATION STATEMENT Icertify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.		sture: Kenberly Putrag	nplete		DOCUMENTATION AUTHOR'S
Documentation Author Name: Kimberly Rutiaga Documentation Author Signature: Kimberly Rutiaga Company: Fresno Neon Sigr Company Signature Date: 5/11/20 Address: 5901 E. Clinton Ave CEA/ HERS Certification Identification (if applicable): n/a City/State/Zip: Fresno CA 93727 Phone: 559-292-2944 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.		sture: Genberly Pertrag		mpliance documentation is accurate and con	certify that this Certificate of Co
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City/State/Zip: Fresno C4.93727 Phone: 559-292-2944 RESPONSIBLE PERSON'S DECLARATION STATEMEN1 certify the following under penalty of perjury, under the laws of the State of California: L. The information provided on this Certificate of Compliance is true and correct.		ntification (if applicable): n/a	CEA/ HERS Certification Identification	5901 E. Clinton Ave	Address:
RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.		559-292-2944	Phone:	Fresno CA 93727	City/State/Zip:
to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with	made availar	y for approval with this building permit applicat	submitted to the enforcement agency for ap	sheets, calculations, plans and specifications	compliance documents, works
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documentation the builder provides to the building owner at occupancy. Responsible Designer Name: Kinberly Rutiaga Responsible Designer Signature Guilding Owner at occupancy. Company : Fresno Neon Sign Company Date Signed: 5/11/2020	uded with the	y for approval with this building permit applicat Iding permit(s) issued for the building, and mad tificate of Compliance is required to be included ture Subcass Rutras 5/11/2020	submitted to the enforcement agency for ap te shall be made available with the building pu it a completed signed copy of this Certificate Responsible Designer Signature Date Signed:	sheets, calculations, plans and specifications signed copy of this Certificate of Compliance r all applicable inspections. I understand that ovides to the building owner at occupancy. Kinberly Rutiaga Fresno Neon Sign Company	compliance documents, works 5. I will ensure that a completed to the enforcement agency for documentation the builder pro- Responsible Designer Name: Company :
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November 2019

November 2019

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CERTIFICATI	OF COMPLIANCE		
Project Nam	e: Proposed Margue	e Sign for Barlett Middle School	Report Page
Project Addi	ess: 600 W. Grand Ave	e. Porterville, CA 93257	Date Prepa
D. EXCEPT	ONAL CONDITIONS	***************************************	
This table is	auto-filled with unedite	able comments because of selections mode or data	a entered in tables through
No exceptio	nal conditions apply to	this project.	
E. ADDITIC	NAL REMARKS		
This table in	cludes remarks made b	y the permit oppicant to the Authority Having Juri	isdiction.
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November 2019

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ompilance: http://www.energy.ca.gov/title24/2019standardg

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ing the Alternate Lighting strols requirements from	3 Sources compliance method pe §130.3 by indicating control typ	er <u>§140.8(b</u> ) as indicate es for each sign.	d on Table B of this comp	pliance
3		04	***********************	05
	· · · · · · · · · · · · · · · · · · ·	Mandatory Controls		Field
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Energy Forms

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	1465 North Van Fresno, Califor 559.442.4642 v	Ness Avenue nia 93728 roice	
	Project New Marquee Sign For: Bartlett Middle School:	Porterville, CA 93257	
	Porterville Unified School District	Porterville, CA 93257	
	L Publishing Status		
	Schematic Design Developm' Site Plan Review	t. 5/14/20	
	Bidding Plan Check	10/12/20	
	Revisions		-
	Project Manager IAN ROBER Project Number I9-051		-
	Sheet 3 of 11	i-1	

afting/Jubs/RSA/SCHOOLS/PAILE/PUSD/Bartlett Middle School - Marquee/EG1.dwg DATE SAVED: 11/04/20 BY: Nicole DATE PLOTTED: 11/04/20 J0B #: 20-009-D3



## CODE, RULES AND REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.

# ELECTRICAL SYMBOLS (---) ABOVEGROUND CONDUIT RUN (---) UNDERGROUND CONDUIT RUN () W.P. WEATHERPROOF JUNCTION BOX WITH GASKETED BLANK COVER (1) ELECTRICAL KEYNOTE #1, REFER TO NOTES ON SAME SHEET. U.O.N. UNLESS OTHERWISE NOTED W.P. WEATHERPROOF = EXISTING ELECTRICAL PANELBOARD

NTER	#9T21S1150)

OLTS BUSS RCUIT TBKRS/	<u>1</u> NG /PNLB	Ø <u>3</u> WRE 60 PRI/70 SEC. A. MAN BKRS. D EXISTING F	PANEL "LT"	<u>8,00(</u> 4" SURFA NEMA	0 MA ACE 3R (A),	BREAKE X. ENCL. 1 MO (D)	R A.IC DEPTH UNTIN	y. H IG
AD V.A	ØB	DESCRIPTION	DESCRIPTION		LOAD ØB	V.A. ØA	BKR.	CIR.
		EXISTING HAND DRYER - GIRLS	EXISTING HAND DRYER - BOYS			2025	291	2
20	025	EXISTING HAND DRYER - GIRLS	EXISTING HAND DRYER - BOYS		2025		$\boldsymbol{V}$	4
		MARQUEE - L.E.D. MESSAGE BOARD	EXISTING LIGHTS			385	$\square$	6
6	00	MARQUEE - L.E.D. SCHOOL SIGN, TIMECLOCK	EXISTING EXHAUST FAN, EF-1		700			8
		SPARE	SPACE			٠	$\square$	10
	•	SPACE	EXISTING TRAP PRIMER		240		201	12
ØA:	6,05 50 6,56	55 V.A.       ØB:       5,590 V.A.         05 V.A.       325 V.A.         60 V.A.       5,915 V.A.						

## TYPICAL PANEL SCHEDULE NOTES:

49 A

(A) ALL CIRCUIT BREAKERS ARE EXISTING.

55 A

(B) MOVE EXISTING "SPARE" 20/1 CIRCUIT BREAKER TO "DLE" SPACE AT CKT #12. CONNECT EXISTING CONDUCTOR, FROM CKT #7, TO THIS CIRCUIT BREAKER. PROVIDE A <u>NEW</u> FRONT FILLER PLATE TO BLANK OFF "DLE" OPENING AT CKT #10.
 (C) DISCONNECT EXISTING "RED" CONDUCTOR, FOR THE TRAP PRIMER, AND RECONNECT IT TO THE RELOCATED 20/1 CIRCUIT BREAKER AT CKT #12.

(D) PROVIDE A NEW PLASTIC LAMINATED CIRCUIT DIRECTORY.



Rose Sing and Associates, Inc. Electrical Consultants 131 S. Dunworth – (559)733–2671 Visalia, California 93292–6705

	Revisions
	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-118589 INC: REVIEWED FOR SS I FLS ACS D DATE: 11/25/2020
	NEW MARQUEE SIGN FOR BARTLETT MIDDLE SCHOO FOR PORTERVILLE UNIFIED SCHOOL DISTRIC PORTERVILLE, CALIFORNIA
) > (B)	Porterville Unified School District
	Rose Sing and Associates, Inc. Electrical Consultants 131 S. Dunworth St. • Visalia, CA 93292-6705 Phone: (559) 733-2671 • Fax: (559) 733-0372
	R S S S S S
	Project No.: 20-009 Drawn by: NS Checked by: DS Date: 11-4-20 Title: ELECTRICAL SYMBOLS, CODES, PANEL SCHEDULE AND DETAILS
	Sheet No.

of

EG1

Sheets



GENERAL NOTE: IF CONDUIT CROSSES A SEISMIC JOINT, PROVIDE FLEXIBLE CONDUIT THE SEISMIC JOINT.



# SITE ELECTRICAL PLAN

1" = 50'-0"

		NO	TES (THIS SHEET ONLY):	Revisions
III ACRO	SS		CONNECT <u>NEW</u> CONDUCTORS TO TWO "EXISTING" 20/1 CIRCUIT BREAKERS AND PROVIDE ADDITIONAL WORK PER EXISTING PANEL "LT" SCHEDULE ON SHEET #EG1.	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
		2	3/4"C - 4 #12 + 1 #12 GND.	REVIEWED FOR
		(3)	PROVIDE A DIGITAL TIMECLOCK EQUIPPED WITH PHOTO-SENSOR AND NEMA 3R ENCLOSURE, TORK #DGLC100A -NC OR EQUAL, TO CONTROL CKT #LT/7 ONLY. SURFACE MOUNT ADJACENT TO EXISTING WINDOWS. RUN 3/4"C - 4 #12 + 1 #12 GND TO "LINE-SIDE" OF POWER DISTRIBUTION BLOCK, KEYNOTE #4. MAXIMUM WEIGHT IS 5 LBS.	
		4	PROVIDE A 18"H x 12"W x 6"DP. NEMA 3R SCREW COVER CAN (EATON/B-LINE #18126RTSC OR EQUAL) EQUIPPED WITH POWER DISTRIBUTION BLOCKS, SQUARE D #LBA362101 AND #LBA262101 OR EQUAL. SURFACE MOUNT ADJACENT TO EXISTING WINDOWS. MAXIMUM WEIGHT IS 19.6 LBS.	SCHC
<u>,</u>			1/2"C - 3 #14.	
			MOUNT PHOTO-SENSOR ON FACE OF FASCIA AND PROVIDE A WEATHERPROOF OUTLET BOX EQUIPPED WITH A BLANK GASKETED COVER.	
,   ,			RUN BRANCHCIRCUIIING UP THE WALL TO EXIS TING ROOF OVERHANG. TURN 90° AND RUN TOWARDS EXISTING FASCIA. TURN 90° AGAIN, RUN ADJACENT TO FASCIA AND ON BOTTOM OF COVERED WALKWAY. WEIGHT OF BRANCH CIRCUITING (EMT AND COPPER CONDUCTORS) IS 1.72 LBS PER FOOT.	
		8	11/4"C - 4 #4 +1 #4 GND.	
>		¦ (9) 	TRANSITION FROM BOTTOM OF COVERED WALKWAY AND RUN BRANCH CIRCUITING HORIZONTALLY ON WALL. ROUTE IN THE AREA BETWEEN THE BOTTOM OF EXISTING LIGHT FIXTURE AND ABOVE THE EXISTING "LB" CONDUIT BODIES/NEMA 3R PULL CAN.	
			PROVIDE AN "LB" CONDUIT BODY IN ORDER TO MAKE TRANSITION AT CORNER OF BUILDING.	V L L
			TURN 90° AND RUN BRANCH CIRCUIIING DOWN THE WALL TO BELOW EXISTING FINS H GRADE. WEIGHT OF BRANCH CIRCUIIING (EMT AND COPPER CONDUCTORS) IS 1.72 LBS PER FOOT.	<b>BAR</b> PORTI
			JACK UNDER EXISTING CONCRETE CURB/MOW STRIP.	
			REFER TO DETAIL #1/EG1 FOR PULL BOX REQUIREMENTS. PROVIDE GROUNDING AND	District
			BONDING OF THE STEEL CHECKER-PLATE COVER PER DETAIL #2/EG1. THE ELECTRICAL CONTRACTOR SHALL FURNISH & 60A 3-POLE NON-FUSIRLE	
			HEAVY-DUTY SAFETY SWITCH, NEMA 3R RATED (AS THE DISCONNECTING MEANS FOR THE MARQUEE) TO THE MARQUEE SUPPLIER FOR INSTALLATION AND FINAL CONNECTIONS OF CONDUCTORS IN KEYNOTE #8. THE MARQUEE SUPPLIER SHALL PROVIDE THE FOLLOWING MATERIALS AND/OR LABOR:	: Unified Sci
			1) CONDUIT FROM HEAVY-DUTY SAFETY SWITCH AND CONNECT TO THE CONDUIT STUB FROM PULL BOX "L3".	terville
			2) PULL-IN THE EXTRA LENGTH OF CONDUCTORS, PER KEYNOTE #16, AND TERMINATE INTO THE HEAVY, DUITY SAFETY SWITCH	Por
			<ul> <li>3) CONDUIT, CONDUCTORS, REDUNDANT GROUND CONDUCTOR TO 5/8" DIA.</li> </ul>	i
			GROUND ROD IN PULL BOX "L3" AND ALL CONNECTIONS TO MARQUEE. LEAVE 20' OF ADDITIONAL LENGTH OF CONDUCTORS FOR THE FINAL INSTALLATION	
			AND CONNECTIONS BY MARQUEE SUPPLIER.	52 <b>N</b>
	TREE		AND LOCATE INSIDE OF PULL BOX "L3".	2-670 3-037
	٥ ت ا	$\begin{vmatrix} & 18 \\ & 19 \end{vmatrix}$	STUB 11/4" CONDUIT TO EDGE OF CONCRETE MOW STRIP AT MARQUEE SIGN. PROVIDE A 12" H x 12" W x 4" DP. NEMA 3 GASKETED SCREW COVER CAN EATON/B-LINE	<b>cia</b> 9329 9) 73
			#12124-SCG OR EQUAL. MAXMUM WEIGHT IS 10 LBS.	<b>50(</b> tants a, CA x: (55
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of

Sheets

### 26 6000 - GENERAL CONDITIONS FOR ELECTRICAL WORK

#### PART 1.00 - ORDINANCES, REGULATIONS AND CODES

- A. All work must conform to the requirements which fall within the scope of the regulations in the Codes or under the jurisdiction of any of the governing bodies listed.
- 1. The California Code of Regulations, Titles 19 thru 24.
- 2. The California Electrical Code as applicable under current state and local regulations (latest edition and supplements).
- 3. State Board of Health.
- 4. CAL-OSHA Regulations.
- 5. Nothing in these Specifications or shown on the plans, shall relieve the Contractor from full compliance with applicable portions of any of the above regulations pertaining to work which he is installing under this Contract.
- B. PERMITS AND FEES

Pay for and obtain all permits, inspection fees, etc., as required for the completion of all work included in this Contract. Any inspection Certificates required shall be obtained and delivered to the Owner.

C. EXAMINATION OF DRAWINGS AND SITE

Before submitting his bid, the Contractor shall carefully examine the Architectural, Structural, Mechanical and Plumbing drawings for this work, along with the Specifications for same in addition to the drawings and Specifications governing the work of this trade. He shall also visit the site of the proposed construction and familiarize himself with all the site conditions. No subsequent allowances will be made to the Contractor because of his negligence in complying with the above or his alleged inability to understand the requirements.

D. CONDUCT OF THE WORK

The Contractor shall maintain on the job a competent foreman or a superintendent at all times to superintend the work.

E. CONTRACTOR'S RESPONSIBILITY

The Contractor shall be responsible for the safety and good condition of all materials and equipment until final acceptance by the Owner. He shall erect and maintain suitable barriers, protective devices, lights and warning signs where required for the protection of the public and employees about the buildings. He shall be fully responsible for any loss or injury to persons or property resulting from his neglect or the carelessness and neglect of his employees.

- F. SUBMITTALS
- 1. Shop drawings of power and signal service and distribution equipment and lighting fixture catalog cuts shall be submitted for approval in seven (7) copies.
- 2. All shop drawings shall be submitted at one time in a neat and orderly fashion in a suitable binder with title sheet including Project, Engineer and Contractor, table of contents and indexed tabs dividing each group of materials or item of equipment. All items shall be identified by the specification paragraph number for which they are proposed. All equipment shall also be identical by the mark number as indicated on drawings.
- 3. Equipment or material furnished or incorporated in construction without prior approval of the Architect may be rejected and if rejected shall be removed from the structure and replaced with approved equipment or material at the Contractor's expense.
- G. RECORD DRAWINGS
- See General Conditions.
- H. CATALOG DATA AND OPERATING INSTRUCTIONS

Upon completion of the work in this Contract, the Architect shall be furnished with a complete set of catalog data which describes each piece of equipment installed under this Contract. The catalog shall be bound in a set and shall be clearly labeled as to each item of equipment used.

- I. LOCATIONS
- 1. The work as laid out is to some extent diagrammatic, and the location thereon indicated may be approximate only. The Contractor, therefore, shall install all the equipment, apparatus, conduit runs and the like as follows:
- a. Adhere to the location indicated as far as possible.
- b. Maintain ample head room in all rooms and passageways, clearance around all apparatus and equipment and under pipe lines for unrestricted passage and for easy servicing of all apparatus, equipment, devices and the like.
- c. Verify the exact locations of all fixtures and other apparatus or devices as indicated on the drawings. In the event these drawings do not sufficiently indicate the locations for all such fixtures, apparatus or devices, the Contractor shall obtain the exact locations from the Architect.
- J. VERIFICATION OF DIMENSIONS
- 1. The Contractor shall, as work progresses, verify the dimensions of the spaces available for the installation of the work and he shall assume full responsibility for the proper locations and grading of each portion thereof.
- 2. Where the work requires connections to be made to equipment that is furnished and set in place by others, the Contractor shall obtain exact locations and rough-in dimensions from the manufacturer of such equipment and he shall install the connections in a neat and workmanlike manner.
- K. CUTTING AND PATCHING

This Contractor shall do all cutting and patching of the work for the installation of the equipment and materials as approved by the Architect and/or Engineer. All patching shall accurately match the adjoining work.

#### L. BORING

- 1. Provide mechanical boring equipment to bore under existing asphalt, concrete, or other surfaces or objects as noted on the drawings. All borings shall be a minimum of 24" under the substrate material unless otherwise authorized by the Architect.
- 2. Holes shall be bored not to exceed 1" larger diameter than the largest component remaining in the excavation.
- 3. Water or air pressure jetting are not permitted, unless they comply with the following requirements:
- a. All surfaces of the hole can be visually inspected with 6' maximum length.
- b. All objects shall be supported continuously to prevent sagging.
- c. The hole shall be filled with compacted damp sand and inspected by the Project Inspector of Materials Testing Lab technician.
- M. FOUNDATIONS AND SUPPORTS

The Contractor shall provide all foundations, supports and hangers, etc., as required to install the equipment as specified or shown on the drawings. All equipment shall be supported, braced and cross-braced in such manner as to prevent sway and/or lateral movement.

#### N. EXCAVATION AND BACKFILLING

1. Excavating required for the installation of the work shall be done by this Contractor. Underground lines outside the buildings shall be installed with a minimum cover of 24" except depth of utility services shall comply with respective utility company requirements.

- 2. The conduit shall be laid on material described below to afford bearing for the full length of the conduit. Any part of the trench excavated below grade shall be corrected with thoroughly compacted material approved by the Architect.
- 3. When the bottom uncovered at subgrade is soft and, in the opinion of the Architect, cannot support the conduit, a further depth shall be excavated and refilled to conduit foundation grade as required by the Architect.
- 4. Backfill.
- a. <u>6" Below, Around, and to 6" Above Conduit: Material shall be</u> sand. Place carefully around and on top of conduit, taking care not to disturb conduit. Consolidate with vibrator.
- b. 6" Above Conduit to Grade: Material shall be sandy or silty loam, free of lumps, laid in 6" layers, uniformly mixed to proper moisture and compacted to required density. If backfill is determined to be suitable and required compaction is demonstrated by laboratory test, water compaction in 6" layers may be used, subject to review by Engineer.
- 5. No excavation below the level of, or adjacent to, foundations of footings shall be made except in a manner approved by the Architect.
- 6. A red or yellow tracer tape stating "CAUTION ELECTRIC LINE BURIED BELOW" shall be installed 12" above conduit, full length of trench.
- 7. Electrical conduit shall not be run in excavations provided for plumbing or heating pipes, unless separated by a minimum of 12 inches.
- 8. Verify location of all underground lines with Owner and utility companies before starting excavation. If any utility company facilities are identified and located within the perimeter of the building, the Contractor shall stop work, promptly notify the Architect and secure his instructions.
- 9. Ten (10) days before doing any excavation or trenching contact "Underground Service Alert", 1-800-642-2444, advise them of work schedule and comply with their recommendations.
- O. CLEANING UP
- 1. The Contractor shall keep the premises free from accumulations of his waste material or rubbish. At the completion of the work, he shall remove all his rubbish, tools, scaffolding and surplus materials from and about the buildings, leaving the premises in a clean condition.
- 2. All exterior surfaces of exposed equipment and material shall be thoroughly cleaned of all dirt, cement, plaster and other debris, including the exterior surfaces of all conduit, conduit fittings, conduit hangers, insulation and the like.
- 3. all surfaces to be painted shall be carefully wiped or otherwise cleaned; cracks and corners scraped out clean, grease and oil spots removed so that surfaces may receive paint without further preparation.
- 4. All fixtures and plated materials shall be thoroughly cleaned and polished.
- P. DAMAGE BY BREAKS

The Contractor shall be responsible for all damage to any part of the premises caused by breaks in conduit or fixtures furnished and/or installed by him under this specification for a period of one (1) year from date of acceptance of the project by the Owner.

- Q. SITE CONDITIONS
- 1. Where existing utilities are shown on the plans, extreme care shall be exercised in excavating near these utilities to avoid any damage thereto, and the Contractor shall be held responsible for any such damage caused by this operation.
- 2. The general location and arrangement of conduit, equipment, apparatus, etc., as shown in the drawings or herein specified and all installations shall be made in accordance therewith. Information on the drawings relative to existing services is approximate only. Minor deviations required to conform to actual locations shall be made without additional cost to the Owner.

- 3. Should existing utilities not shown on the plans be found during excavations, or identified, the Contractor shall promptly notify the Architect for instructions as to further action. Failure to do so will make the Contractor liable for any damage there arising from his operations after discovery of such not utilities not shown on the plans. These utilities shall be removed or relocated as directed by the Architect. An equitable adjustment in the Contract will be made for the additional work involved.
- 4. The Contractor shall use special precautions where excavations are made in the areas near electrical ducts since they may be high voltage ducts. All such ducts shall be exposed by careful hand excavation so as not to damage the ducts or cause injury to personnel and shall be suitably marked with warning signs, barricades, etc. as required.
- R. STANDARD PRACTICE
- All work not shown in complete details shall be installed in conformance with the best standard practice for the trade.
- S. <u>INTENT</u>

It is the intention to provide systems that are complete in every respect without further cost to the Owner. Anything not shown in drawings, or indicated in the specifications, but required for complete operating systems shall be included as part of this Contract. This shall include all connections to existing services.

T. SPECIAL NOTE

Attention of Contractor is hereby called to all work covered by notes on the drawings. Work covered by notes must be furnished and installed whether it is specifically mentioned in these specifications or not.

U. GUARANTEE

Except as otherwise specified, all materials, apparatus equipment furnished and installed under the Electrical Section of this specification shall be new and free from all defects. Should any trouble develop within a period of one (1) year from date of acceptance of the work, due to inferior or faulty material and/or workmanship, the trouble shall be corrected and material and equipment replaced by the Contractor without expense to the Owner.

V. SERVICES

The location of any existing utility services shown on the drawings is approximate and shall be checked by this Contractor for exact location. Refer to "EXCAVATION AND BACKFILLING" for additional requirements.

W. LIST OF MATERIALS

Within thirty (30) calendar days after the award of the Contract, the Contractor shall submit seven (7) copies of a complete list of materials to be installed under this Contract, giving, in the case of each item of material to be used, the name of the article. All substitutes must be approved by the Architect as stipulated in Section 01620.

X. ACCESS OPENINGS

It shall be the responsibility of the Contractor to provide sufficient and convenient access openings, panels, etc., in the building construction where required for the maintenance of, installation and/or removal of all equipment, or other items of the various systems and equipment.

- Y. PURCHASE ORDERS AND ACCEPTANCE
- 1. The Contractor shall file with the Architect two (2) certified copies of all purchase orders, for materials, equipment, appliances and rentals thereof within two (2) weeks from date of Notice to Proceed with the Contract if requested by the Architect.
- 2. The Contractor shall file with the Architect two (2) certified copies of acceptance of purchase orders for materials, equipment, and appliances by the manufacturer, distributor or wholesale house within six (6) weeks from the date of Notice to Proceed with the Contract if requested by the Architect.
- 3. Failure to provide same within the stipulated time shall be deemed sufficient cause for the Architect to withhold certificates of payment for work completed or materials and equipment provided by the Contractor or his subcontractors toward the completion of their Contracts.
  - END OF SECTION 26 6000

## 26 7000 - BASIC ELECTRICAL MATERIALS AND METHODS

PART 1.00 - GENERAL

Drawings and general provisions of Contract, including General and Supplementary conditions, Divisions 0 and 1 and Section 26 6000 specifications apply to work of this section.

- A. SCOPE OF WORK
- 1. This portion of the work includes the furnishing of all labor and materials necessary for the complete wiring system to outlets and all equipment shown on the drawings or covered by this Section of the Specifications and other Division 26 and Division 28 sections of the Specifications. In general, the work includes the following:
- a. Complete system of branch circuit wiring and conduit for power.
- b. All hangers, anchors, sleeves, chases and supports for fixtures, all electrical equipment and materials.
- c. All excavating and backfill as required for electrical work.
- 2. The Contractor shall furnish and install all work necessary to make complete systems, whether or not such details are mentioned in these Specifications or shown on the drawings, but which are necessary in order to make complete working systems, excepting only those portions that are specifically mentioned therein or plainly marked on the accompanying drawings as being installed by other Contractors.

- Before construction starts, the Electrical Contractor shall arra a coordination meeting with the General Contractor and all o subcontractors supplying equipment that requires electrical connections. All electrical requirements shall be verified and problems shall be immediately reported to the Architect. Equipment items to verify shall include, but not be limited to: Voltage, amps, phase, location, orientation, space requireme type of connection, starter and disconnect location and provis control system operation and requirements, etc.
- 4. The above list is given for the convenience of the Contractor is not considered all-inclusive.

PART 3.00 - MATERIALS

- A. All materials, appliances and equipment except that furnished by Owner shall be new, bear U.L. label and of the make, brand or quality specified or as accepted by the Architect as herein provide This shall also apply to all parts of the work whether or not this particular paragraph is referred to by number.
- B. All apparatus, conduit systems, etc., shall be installed and interconnected so as to form complete systems as herein specifi and/or shown on all the accompanying drawings. This Contracto shall furnish and install all work necessary to make complete wor systems, excepting only those portions that are specifically mentioned herein or plainly marked on accompanying drawings as being furnished by other contractors.
- C. RACEWAYS AND FITTINGS
- 1. Shall be as manufactured by Allied Tube and Conduit Corpor AFC Cable Systems Inc., Carlon, Cantex, PW Pipe or approequal
- 2. Galvanized rigid steel conduits (RSC) may be used in all locations.
- 3. For underground runs in direct contact with earth, conduit sha wrapped with PVC tape or shall have factory applied PVC co
- 4. Galvanized intermediate metallic conduit (IMC) may be used indoor locations not in direct contact with earth.
- 5. Galvanized electrical metallic tubing (EMT) may be used: a. Not subject to physical damage.
- b. Not in direct contact with earth.
- c. On roof or walk cover when specifically shown on drawin 6. Non-metallic rigid conduit shall be PVC Schedule 40 and may
- used:
- a. Underground.
- 7. Fittings: a. For rigid and intermediate steel conduits, fittings shall be
  - i. Galvanized rigid steel threaded type.
  - ii. Provide insulated grounding bushings at switchboard enclosures and panel enclosures for feeders.
- b. For electrical metallic tubing (EMT), fittings shall be:
- i. Zinc plated steel set screw type in dry locations
- ii. Zinc plated steel compression type for conduits larger 1" and in wet locations.
- iii. All connectors shall have an insulated throat.
- c. For non-metallic conduits, fittings shall be PVC schedule type. Use PVC schedule 40 adapters at all boxes and panelboards.
- d. Brush or dauber apply PVC cement.
- e. Use of the following is prohibited:
- i. Crimp-on, tap-on or indenter type fittings.
- ii. Spray (aerosol) PVC cement.
- D. PULL BOXES
- 1. Pull Boxes shall meet all code requirements as to size for conduits terminating therein and to thickness of material used fabrication.
- 2. Fabricated sheet steel pull boxes shall be installed only in dry protected locations and shall be furnished with knockouts an removable screw cover. Box shall be finished with one coat of zinc chromate and a coat of primer sealer and where expose public view shall be painted to match the surrounding surface
- 3. Weatherproof sheet steel pull boxes shall be fabricated of co gauge galvanized sheet steel with two coats of rust resistant and shall be furnished with gasket and made completely weathertight.
- 4. Approved manufacturers for metal boxes are Cooper B-line, Milbank, Hoffman or approved equal.
- 5. Weatherproof concrete pull boxes, junction boxes and teleph boxes shall be manufactured by Christy Concrete Products, Utility Vault or approved equal. All pull boxes shall be H/20 r and be equipped with H/20 rated galvanized steel checker pla cover with the inscription "Electric, Lighting, Fire Alarm or "Sig
- E. TIME SWITCHES

Time switch shall be a two circuit digital time clock with photo cor input, battery back-up and a surface enclosure. Provide a flush enclosure when indicated. Tork #DGLC (120v) or approved equa

- F. OUTLET BOXES
- 1. All outlet boxes shall be standard one or two piece galvanized knock-out outlet boxes. Raco, Appleton, Thomas and Betts approved equal.

ange other		2.	All outlet box covers, rings or other fittings shall be standard galvanized. Raco, Appleton, Thomas and Betts or approved equal.	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-118589 INC:
d any		3.	No outlet box shall be smaller than four inches (4") square and 1 1/2" in depth, except in concrete block construction where Thomas and Betts concrete masonry boxes are approved	REVIEWED FOR SS I FLS I ACS I DATE: 11/25/2020
ision,		4.	All special outlets shall be as hereinafter specified or as shown on	
and		_	drawings.	
		5. 6	Thru boxes are not permitted.	
v the	G	о. СС	NDLICTORS (Wire)	
ded.	0.	<u>. 00</u> 1.	All wire installed in this contract shall be of a standard manufacturer as approved by the National Board of Fire Underwriters and be of the size as indicated on the drawings. All wire shall bear the Underwriter's label and shall be brought to the job in unbroken packages and approved by the Job Inspector before it is installed	E SCP CHOOL D
or orking		2.	All power conductors #10 AWG and smaller shall be type THWN copper, unless otherwise noted. All conductors #8 AWG and	
as		3.	All underground conductors in a 480V or 480/277 volt power system shall be type XHHW-2 copper, unless otherwise noted.	
pration, oved		4.	Number 12 AWG wire shall be the smallest gauge wire used, except for signal circuits, which shall be as shown on plans or as specified under other sections of these specifications.	HLLE L
		5.	All wire #8 AWG gauge or larger shall be stranded.	
nall be		6.	The neutral conductor of all lighting feeders shall be of the same size as the phase conductors.	ART RTEF
d in		7.	Splices on all wire less than #8 gauge shall be with insulated spring connectors, Ideal "Wing Nuts", 3M "Scotchlok" or equal.	
		8.	Splices in wires #8 gauge and larger shall be made with crimp-on solderless connector, 3M Scotch, Burndy or equal. Connectors to switches or bus bar shall be made with one piece lugs for all wires, sized for conductors as shown on plans.	
ngs.		9.	Each branch circuit shall be marked with the circuit number at the panel and at the first outlet nearest the panel. E-Z Code Markers (Thomas and Betts) or equal shall be used to label the circuits.	UC
ay be	H.	MC	DTOR DISCONNECTS	
): 		1.	Disconnects shall be fused safety switches with dual element fuses. Heavy-duty rated with quick-make, quick-break operating mechanism. Fuse rating shall comply with motor manufacturer's recommendations. Switch shall be UL listed. Disconnects shall have an external operating handle, lockable in the open or closed position.	<b>SciateS</b> ts A 93292-6705 559) 733-0372
4		2.	Disconnect switches shall be located so as not to obscure any part of the HVAC unit's nameplate data.	<b>SSC</b> sultan alia, C Fax: (t
		3.	Each disconnect switch shall have a engraved Bakelite nameplate identifying the panel and circuit number that feeds the motor. Nameplates shall comply with specifications for "Identification of Switches and Apparatus".	ical Con-
or theo	PART	4.0	0 - GENERAL REQUIREMENTS AND INSTALLATION	733-733-7
erthan	A.	<u>CC</u>	DNDUIT SYSTEMS	
e 40		1.	A concealed conduit system shall be installed for all interior wiring including controls. Conduit shall be run continuous between outlets, etc., and with the minimum number of bends.	Sin 31 S. Du Jone: (5
		2.	PVC 40, galvanized rigid steel wrapped with PVC tape or galvanized rigid steel with factory applied PVC coating shall be used for underground runs.	Se contraction of the second s
		3.	Where underground conduit cannot be run below building footings the Contractor shall provide PVC-80 sleeves through the footings (Contractor shall obtain approval for all sleeve sizes and locations with the Structural Engineer before installation).	8 8
ed in		4.	All conduit shall be delivered to the site of construction in their original bundles. Each length of conduit shall bear the label of the National Board of Fire Underwriters. All conduit subjected to rough usage while on the job before installation and not acceptable to the Architect shall be removed from the premises upon notice.	S S S S S S
ry, of ed to e.		5.	The joints in all conduits installed underground, or exposed to the weather, shall be made liquid and gas tight. All underground conduit outside of the buildings shall be buried to a depth of not less than 24" below finish grade. Electrical conduit runs installed in a common trench with other utility lines shall be separated from such lines by at least twelve inches (12"). Provide a detectable	PROFESSION
dae t finish		6.	trench.	No. E14920
			radius bends made on the job. Where two or more conduits are grouped in exposed locations, the sweeps shall be struck from the same center forming concentric arcs.	Exp. $6/30/19$ $\checkmark$ $?_{TECTRICAL}$ $?_{TEOF CALIFORNT}$
none		7.	All joints in conduit shall be made with standard coupling. In making joints, conduits must be truly and accurately cut and	Project No.: 20-009
late ignal".			reamed and squarely butted. All conduit shall be kept corked and dry during construction, using plastic caps or conduit pennies held in place with conduit bushings. Should dirt or moisture collect in any conduit, the Contractor shall swab them out to the satisfaction	Drawn by: NS Checked by: DS
ontrol		Q	All conduits where they enter panel enclosures, pull boyos or	Title:
ial.		0.	outlet boxes shall be secured in place by a galvanized locknut inside of box.	ELECTRICAL SPECIFICATIONS
ed		9.	Where conduits are run exposed, they shall be installed straight and true with reference to the adjacent construction.	
UI.	0	The second	ARCONTRACTOR W ROLE	Sheet No. 6 of 11

Rose Sing and Associates, Inc. Electrical Consultants 131 S. Dunworth - (559)733-2671 Visalia, California 93292-6705

E

Sheets

- 10. Any conduit entering underground pull boxes shall be sealed to prohibit water from entering the conduit. Conduits with conductors shall be sealed with a sealing compound after all conductors have been installed. All spare (empty) conduits shall be identified with either "origination" or "destination" (example: to pull box 150' to the south, from Main Switchboard, etc.). The contractor shall use a scrap piece of 3/4" PVC conduit, approximately 5" in length and tie the nylon pull string thru it. Write the description on the conduit using an indelible/permanent marker.
- B. CONDUCTOR IDENTIFICATION AND INSTALLATION
- 1. The drawings indicate the arrangement of outlets on each branch circuit and the circuit tags show the number of the circuit and the board to which it will be connected.
- 2. Circuits indicated with the same numbers shall be connected to the same breaker on the panelboard.
- 3. Branch circuits shall be tagged in all pull boxes and in the gutters of all panels to which they connect.
- 4. All wiring shall be done in identified neutrals.
- 5. No wire shall be installed until all work of other contractors that might cause injury to the said wire has been completed. Care shall be used to pull wires to insure that no damage occurs to the insulation. A wire lubricant shall be used for pulling in wires.
- 6. In making the connection of all branch circuits to the terminals of switches, base plugs, etc., the wires shall be looped around the binding screws or be fitted with connecting lugs. At the ceiling outlets, this Contractor shall leave not less than 6" of free ends on each wire for connections to the fixtures.
- 7. No splices shall be permitted except in outlet boxes, and in panelboard gutters.
- 8. All power wiring #6 AWG and smaller shall be factory color-coded. For larger than #6, mark conductors on each end and at all junction and/or pull boxes with a 1" band of colored pressuresensitive plastic tape. For isolated ground wires, mark with a 1" band of green tape, followed by a 1" band of yellow tape, followed by a 1" band of green tape. Colors for each phase and the neutral shall be consistent throughout the system. Color code shall be as follows:

WIRE	120/208V
Phase A	Black
Phase B	Red
Phase C	Blue
Neutral	White
Equip. Ground	Green

- 9. The white or gray conductor shall be the neutral at each outlet.
- 10. Conductors having white, gray or green covering shall not be used to indicate other than neutral or grounding. This limitation applies to all power, lighting and control circuits.
- 11. Installation of conductors shall be made in a neat and workmanlike manner to meet Code requirements and shall be run continuous without weld, splice or joint between boxes. Do not install wires in conduit unless the entire system of conduit and outlet boxes is permanently in place. All conductors shall be pulled using a UL approved wire lubricant.
- 12. Make all terminations at motors using 3M Series 5300 Motor Lead/Cable Splicing kits. Make connections per 3M written installation procedures.
- 13. On all bolted electrical connections, the Contractor shall use Belleville washers.
- 14. All wiring to be neatly bundled and tied with nylon cord or plastic straps.
- C. <u>GROUNDING</u>
- 1. The conduit system, supports, cabinets, switchboards, etc., and neutral conductors must be permanently and effectively grounded in accordance with Title 24 of the California Code of Regulations. The neutral shall only be grounded at the main service location unless specifically noted otherwise on the drawings or required by the California Electrical Code.
- 2. This Contractor shall exercise every precaution to obtain good contacts at all panel boxes, pull boxes, etc.; where it is not possible to obtain good contacts, the conduits shall be bonded around the boxes with a #6 AWG gauge conductor with ground clamps.
- 3. All equipment cases, motor frames, etc. shall be completely grounded to satisfy applicable code requirements.
- 4. Pull a green equipment ground conductor in all power conduits, both metallic and non-metallic.
- 5. Each disconnect switch shall have a ground connector (lay-in wire type) which shall be used for grounding the disconnect enclosure. The ground wire shall continue and be connected to the enclosure of the equipment served.

#### D. MOUNTING HEIGHTS OF EQUIPMENT

Unless otherwise specified elsewhere or shown on the plans, the following mounting shall apply:

1. Panelboards:	6'-0" to top of box.
2. Disconnect Switches:	4'-0" to center line.
3. Contactors:	4'-0" to center line.

E. IDENTIFICATION OF SWITCHES AND APPARATUS

All switchboard circuits, externally operated switches and apparatus used for the operation of or control of circuits, appliances, or equipment shall be properly identified with an engraved Bakelite nameplates, 1" x 3", black letters on white background. All such nameplates shall be of the self-adhesive type and attached onto the apparatus by screws or rivets. Card holders in any form are not acceptable.

PART 5.00 - COORDINATION

PART 6.00 - MISCELLANEOUS

- A. INTERRUPTION OF SERVICE
  - 1. Interruption of service in existing buildings shall not be made at a time which will inconvenience the Owner. Before making any final connections to the existing buildings or doing any other work that will interrupt the service, the Contractor shall consult with the Owner and schedule the work at Owner's convenience even if it is necessary to make such connections after regular working hours.
  - 2. This Contractor shall do all rerouting and reconnecting of existing electrical facilities made necessary by this construction. Care shall be taken not to disrupt existing facilities. If any facilities are disrupted, this Contractor shall replace or repair them at his expense and to the satisfaction of the Architect.

B. CHANGES

Electrical Contractor shall consider the number of outlets for electric equipment shown on plans as final, but the Architect reserves the right to shift same, within reason, to a location and position which will meet more completely final requirements.

C. GUARANTEE AND TESTS

6. The entire installation shall be free from short circuits and improper grounds. Panels and circuits shall be tested for grounds and shorts. Each individual circuit shall be tested at the panel with the equipment connected for proper operation. Ground tests shall meet the requirements of the California Electrical Code. Upon completion of the work, a final inspection by the Architect and other interested authorities shall be conducted. This Contractor shall guarantee to repair or replace at his expense any material or equipment that develops defects or is determined not to be in conformance with the plans and specifications, during a period of one year after work is accepted by the Owner.

END OF SECTION 26 7000



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Sheets

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

**REVIEWED FOR** 

APP: 02-118589 INC:

## **GENERAL NOTES**

- ALL DIMENSIONS, CONDITIONS AND ELEVATIONS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK OR FABRICATION. IF ANY DESCREPANCIES ARE FOUND, OR IF ANY CONDITIONS EXISTS NOT AS SHOWN ON THE DRAWINGS, THE ENGINEER SHALL **BE NOTIFIED IMMEDIATELY.**
- 2. ANY CHANGES TO THE APPROVED SET OF PLANS WITHOUT NOTIFYING THE ENGINEER PRIOR TO SUCH CHANGES ABSOLVES SAID ENGINEER FROM ANY AND ALL RESPONSIBILITY WITH RESPECT TO LIABILITY. DAMAGE. OR EXTRA WORK RESULTING FROM SAID CHANGES.
- 3. NOTES AND DETAILS ON THE DRAWINGS TAKE PRECIDENCE OVER THESE GENERAL NOTES.
- 4. GOVERNING CODE 2019 CBC.
- DESIGN SOIL PRESSURE, 1500 PSF AND PASSIVE AT 100 PCF X2.
- 6. ALL WORK TO BE PERFORMED UNDER THE CONTINUOUS INSPECTION OF D.S.A APPROVED INSPECTOR.
- 7. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTURCTON CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT. AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 CCR, AND THE ENGINEER.
- A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER), AND APPROVED BY THE DIVISION 9. OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-338, PART 1, TITLE 24, CCR.
- 10. GOVERING CODES:
  - 1. 2019 CALIFORNIA ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
  - 2. 2016 CALIFORNIA BUILDING CODE, VOLUMES 1 & 2 (PART 2, TITLE 24, CCR).
  - 3. 2016 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).
  - 4. 2016 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR).

## **FOUNDATION NOTES**

- ALL FOOTINGS SHALL EXTEND TO FIRM BEARING IN UNDISTURBED SOIL OR ENGINEERED FILL.
- ALL REINFORCING STEEL, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS SHALL 2. BE SECURELY POSITIONED IN THE FORMS PRIOR TO POURING OF CONCRETE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES AND FOR PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.

## PAINTS AND ADHESIVE

- 1. PRIMERS AND PAINT TO BE SPRAY PAINTED PER MANUFACTURER RECOMMENDATIONS.
- ALL STEEL TO HAVE 2 COATS OF RED-OXIDE PRIMER PRIOR TO ASSEMBLY. APPLY 2. PRIMERS IN COMPLIANCE WITH THE REQUIREMENTS OF SSPC DA-1, PAINT APPLICATION SPEC NO.1.
- 3. ALL STEEL WELDED ON SITE TO BE CLEANED OF WELDING SLAG AND PRIMED WITH RED-OXIDE PRIMER.
- 4. ALL ALUMINUM SHEET TO ALUMINUM ANGLES AND TUBES SHALL BE BONDED WITH ASI STRUCTURAL ACRYLIC ADHESIVE MP55420, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. THE ADHESIVE SHALL CONFORM TO UL STANDARD 746C.

## **ALUMINUM NOTES**

- 1. ALL ALUMINUM ANGLE AND TUBES TO BE 6061 T6 OR 6061 T651. YIELD STRENGTH EQUAL TO 35 KSI PER ASTM B221.
- 2. ALL SHEET ALUMINUM TO BE 5052-H32 PER ASTM B209.
- MILL CERT SHEETS TO BE SUPPLIED ON ALL ALUMINUM.
- NO ALUMINUM SCREWS TO BE USED.
- ALL WELDING SHALL BE PER AWS D.1.2. FILLER WIRE SHALL CONFORM TO THE REQUIREMENTS 5. OF AWS A5.10 AND SHALL BE TYPE 5356 ALUMINUM ALLOY FILLER.
- 6. STAINLESS STEEL BOLTS SHALL CONFORM TO ASTM F 593 300 SERIES (FY=30 KSI MIN). NUTS TO ASTM F 59

## STRUCTURAL STEEL NOTES

- ALL STRUCTURAL STEEL EXCEPT W SHAPES SHALL CONFORM TO ASTM A-36 AND SHALL BE FABRICATED AND ERECTED AS PER AISC SPECIFICATIONS FOR BUILINGS. W SHAPES SHALL CONFORM TO ASTM A992.
- 2. STRUCTURAL PIPE SHALL CONFORM TO ASTM A-53, GRADE "B", AND STRUCTURAL TUBING SHALL CONFORM TO ASTM A-500, GRADE "B OR C".
- 3. ALL UNFINISHED BOLTS BE ASTM A-307 UNLESS OTHERWISE NOTED.
- 4. USE AISC USUAL GAGES FOR BOLT HOLES IN ALL STEEL SECTIONS UNLESS OTHERWISE NOTED.
- 5. ALL STEEL TO BE PRIMERED WITH TWO COATS OF INDUSTRIAL RED-OXIDE PRIMER PRIOR TO FINAL ASSEMBLY.
- 6. ALL ALUMINUM TO STEEL CONNECTIONS WILL HAVE A POLYCARBONATE SPACER TO PREVENT ELECTROLYSIS. THESE CONNECTIONS ARE TO BE MADE WITH STAINLESS STEEL BOLTS AS SHOWN ON DRAWINGS.
- 7. MILL CERT SHEETS TO BE SUPPLIED ON ALL STEEL.
- 8. ALL FIELD WELDING TO USE AWS A5.1 E-7018 WELDING ROD IN ACCORDANCE WITH AWS D1.1.

## **CONCRETE NOTES**

- 1. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND OTHER EMBEDS SHALL BE IN PLACE AND SECURED TO FORM WORK PRIOR TO POURING OF CONCRETE.
- 2. SIDES OF FOOTING MAY BE POURED AGAINST STABLE EARTH.
- 3. THE QUALITY AND DESIGN OF CONCRETE SHALL COMPLY WITH TITLE 24, PART 2, EXCEPT ITEMS NOT SPECIFICALLY COVERED THEREIN SHALL CONFORM TO ACI 318.
- 4. CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS. (DESIGN 2500 PSI)

)4.		BUILDER	
	GENERAL NOTES	FRESNO NEON SIGN COMPANY 5901 E CLINTON AVENUE FRESNO, CALIF. 93727 (559) 292-2944	B 3 P



355 N G STREET PORTERVILLE, CA 93257









# SIGN - 1 120 VOLT DESIGNATED LINE FROM SCHOOL CONTROL ROOM REDUNDANT GROUND TO BOTH LED CHASSIS E PRUPERTY Sign CO INC. Zed use of 120 VOLT - 20 AMP CONSTANT HOT DESIGNATED LINE ELECTRICAL 7 _____ _____ _____ # 10 GROUND ATTACHED TO GROUND LUG ON LED CABINET **2** WATER TIGHT BOX **3** WATER TIGHT BOX 4 8 PULL BOX PROVIDE MINIMUM SLOPE FROM POLE COVER FOR WATEI 5901 TEL DETAIL Manufa with ac Uisplay NEW MOW STRIP AND FOOTING EXISTING GRADE

BUILDER

ELECTRICAL DETAILS

FRESNO NEON SIGN COMPANY BAH 5901 E CLINTON AVENUE FRESNO, CALIF. 93727 (559) 292-2944 355 IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 02-118589 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗌 DATE: <u>11/25/2020</u>



- 120V 20A WITH NEUTRAL WIRE USE APPROPRIATE SIZE WIRE FOR DISTANCE RAN
- 5 120V 20A WITH NEUTRAL WIRE USE APPROPRIATE SIZE WIRE FOR DISTANCE RAN
- 6 APPROPRIATE LIGHTING CONTROL FOR ID SECTION OF SIGN

- NOTES:
- 1. ELECTRICAL TO SIGN TO BE PROVIDED TO SIGN BY CUSTOMERS ELECTRICIAN.
- 2. DATA TO BE WIRELESS ETHERNET.
- 3. THE BUILDING ANTENNA AND CABLES TO BE RAN BY CUSTOMERS ELECTRICIAN.

MINIMUM 3/16" PER FOOT OM POLE AND POLE OR WATER RUN OFF Y STRIP TING	CONTROLOGIANT CONTROL OF CALIFORNIA		
	DRAWN BY: ED KING edking1930@gmail.com		
	UL / CEC / TITLE 24 COMPLIANCE		
	Sign Fabrication to be UL 48 and NEC Article 600 compliant.		
	Title 24 compliant controls comply with (2016 CA Energy Code) will be installed prior to final inspection which include either a time clock/phote cell combination or an astronomical time clock.		
	SHEET SI	ZE 22" x34"	
JOB	DRAWING NUMBER	BMS-LED10	
BARTLETT MIDDLE S 355 N G STREET PORTERVILLE, CA 93	11 of 11 ED-1		