120/208 VOLTS 3 Φ 4 WIRE
400 A. BUSSING 400 A. MAIN BKR.
30 CIRCUIT
BOLT-ON CKT BKRS/PNLBD

(E) PANEL "NR"

10,000 BREAKER A.I.C.
6 1/4" MAX. ENCL. DEPTH
POST MOUNTING
WEATHERPROOF

CKT	BKR	LOAD V.A. ΦA	ΦB	ΦC	DESCRIPTION	DESCRIPTION	ΦC	LOAD V.A. ΦB	ΦA	BKR	CKT
1	2	7660			(E) RELOC. BLDG. "R08"	(E) RELOC. BLDG. "R11"			7660	2	2
3			7380					7380			4
5	2			7660	(E) RELOC. BLDG. "R09"	(E) RELOC. BLDG. "R12"	7660			2	6
7		7380							7380		8
9	2		7660		(E) RELOC. BLDG. "R10"	(E) RELOC. BLDG. "R13"		8700		2	10
11				7380			10600				12
(1) 13	2	3604			NEW RELOC. BLDG. "R14"	SPACE					14
(1) 15			3504								16
(1) 17	2			3604	NEW RELOC. BLDG. "R15"						18
(1) 19		3504									20
21					SPACE						22
23											24
25											26
27											28
29											30

TOTAL LOAD: ΦA: 37,188 V.A. ΦB: 34,624 V.A. ΦC: 36,904 V.A.
L.C.L. x 25%: V.A. V.A. V.A.
37,188 V.A. 34,624 V.A. 36,904 V.A.
304 A 284 A 308 A

PANEL SCHEDULE NOTES:

(1) PROVIDE NEW CIRCUIT BREAKERS TO CONNECT NEW RELOCATABLE BUILDINGS AS SHOWN.

DIVISION OF THE STATE ARCHITECT APPLICABLE CODES AND STANDARDS

CODES:

2016 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2016 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R. (2015 INTERNATIONAL BUILDING CODE, VOLUMES 1 AND 2 WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (2014 NATIONAL ELECTRICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R. (2015 INTERNATIONAL MECHANICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R. (2015 INTERNATIONAL PLUMBING CODE WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ENERGY CODE (CEnC), PART 6, TITLE 24 C.C.R.

2016 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R. (2015 INTERNATIONAL FIRE CODE WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA REFERENCED STANDARDS CODE (C.R.S.C.), PART 12, TITLE 24 C.C.R.

TITLE 19, C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

STANDARDS AND GUIDES:

NFPA 72 - NATIONAL FIRE ALARM CODE, 2016 EDITION (CALIFORNIA AMENDED)

ADAAG - AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES

UL 38 - MANUAL ACTUATED SIGNALING BOXES, 2008 EDITION

UL 268 - SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2016 EDITION

UL 268A - SMOKE DETECTORS FOR DUCT APPLICATIONS, 2008 EDITION

UL 464 - AUDIBLE SIGNAL APPLIANCES, 2016 EDITION

UL 521 - HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION (WITH REVISIONS THROUGH JULY 2005)

UL 864 - CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2014 EDITION

SEISMIC ANCHORAGE REQUIREMENTS

MECHANICAL, ELECTRICAL AND PLUMBING ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

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 DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND 2016 CBC, SECTIONS 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. SMACNA OR 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 PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

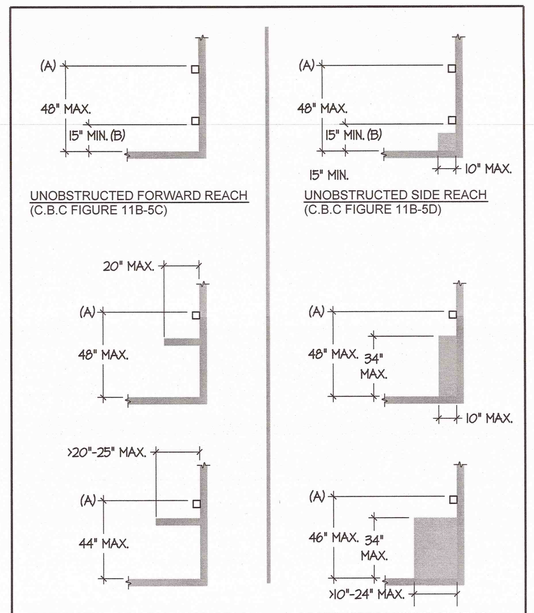
MP☐ MD☐ PP☐ E☑ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) # N/A .

MP☐ MD☐ PP☐ - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL N/A AND CONNECTION LEVEL N/A FOR THE PROJECT AND CONDITIONS.

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.



(A) TOP OF OUTLET BOX FOR RECEPTACLES, SWITCHES AND CONTROLS.

(B) BOTTOM OF OUTLET BOX FOR RECEPTACLES, SWITCHES AND CONTROLS.

1 ELECTRICAL RECEPTACLE SWITCH AND CONTROL HEIGHTS

NTS

ELECTRICAL SYMBOLS

ALL DIMENSIONS TO CENTER OF BOX, U.O.N.

	HOME RUN 3/4"C - MIN. (PANEL A, CIRCUIT #3)
	CONDUIT RUN IN WALL OR ATTIC (1/2"C - 2 #12 AWG THWN + 1 #12 GND)
	CONDUIT RUN IN FLOOR OR UG (1/2"C - 2 #12 AWG THWN + 1 #12 GND)
	CONDUIT STUB - CAPPED AND LABELED.
1	ELECTRICAL KEYNOTE #1, REFER TO NOTES ON SAME SHEET
U.O.N.	UNLESS OTHERWISE NOTED
W.P.	WEATHERPROOF
	TERMINAL CABINET (SIZE AS SHOWN)
	ELECTRICAL PANELBOARD
J	JUNCTION BOX EQUIPPED WITH BLANK COVER
SD	ADDRESSABLE SMOKE DETECTOR WITH CARBON MONOXIDE SENSING CELL MOUNTED ON CEILING
HD	HEAT DETECTOR MOUNTED IN ACCESSIBLE ATTIC
(A) SF 30	FIRE ALARM VISUAL STROBE, 30 CANDELA, CEILING MOUNTED
(B) SP W.P.	FIRE ALARM EXTERIOR SPEAKER ON WALL
SCM	ADDRESSABLE SUPERVISED OUTPUT MODULE
J	SURFACE MOUNTED JUNCTION BOX ON WALL

ELECTRICAL SYMBOLS NOTES:

(A) REFER TO FIRE ALARM DEVICES ELEVATION, DETAIL #5/E3.2 FOR RESPECTIVE MOUNTING HEIGHTS.

(B) SEE FIRE ALARM PLAN FOR MOUNTING HEIGHTS.

COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).

MARK	DATE	REVISIONS
1		
2		
3		

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

SITE IMPROVEMENTS FOR (2)-24'x40' MODULAR CLASSROOMS AT
HORACE MANN ELEMENTARY SCHOOL
2710 NILES ST, BAKERSFIELD, CA 93306
FOR
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL: 03-118412
FILE: 15-6
AC. M FLS Co SS TB
DATE: SEP 08 2017
PTN : 63321-285

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STEPHEN J. CORBIN, NCARB, AIA, LEED AP BD+C

THOMAS WILLIAM SING No. E-7468 Exp. 6/30/19 ELECTRICAL STATE OF CALIFORNIA
Rose Sing and Associates, Inc.
Electrical Consultants
131 S. Dunworth — (559)733-2671
Visalia, California 93292-6705

CODES, NOTES, ELECTRICAL SYMBOLS AND PANEL SCHEDULE

JOB NO.	1244
DRAWN :	CS
CHECKED :	
DATE :	09/01/17

1.1 OF SHEETS

Z:\Drafting\Jobs\RSA\SCHOOLS\BFIELD\Bakersfield City Schools\Horace Mann - 2017 Relocs\E1.1.dwg DATE SAVED: 09/01/17 DATE PLOTTED: 09/01/17 BY: Casey JOB #: 17-067-JJ