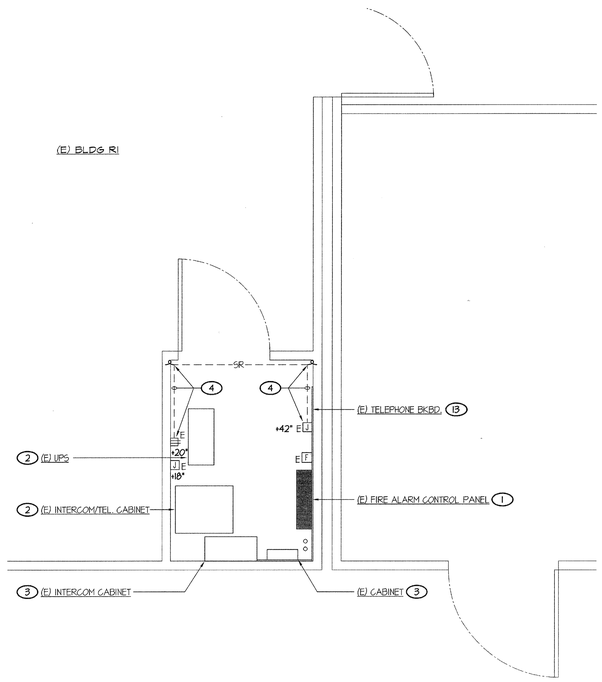


ADMIN. SIGNALS EQUIPMENT ROOM
(E) ELEC. DEMO PLAN

SCALE : 1/2" = 1'-0"

PLAN NORTH

NOTES (THIS SHEET ONLY):

1. TO REMAIN IN USE FOR RECONNECTION PER FIRE ALARM RISER DIAGRAM #1/E3.2.
2. TO REMAIN IN USE. SEE KEYNOTE #12 FOR ADDITIONAL INFORMATION.
3. DISCONNECT REMOVE AND DISPOSE OF AS DIRECTED BY THE OWNER.
4. DISCONNECT AND REMOVE THIS SECTION OF SURFACE RACEWAY. LEAVE CONDUCTORS IN PLACE AT CORNER FOR RECONNECTION.
5. RUN NEW RACEWAY FROM EXISTING SURFACE RACEWAY JUNCTION BOX UP WALL THEN HORIZONTAL ON WALL TO CORNER AT CEILING. THEN TURN DOWN WALL AND RUN TO NEW SURFACE RACEWAY JUNCTION BOX (LOCATED TO INTERCEPT EXISTING RACEWAY). PULL IN 2 #12 + 1 #12 GND AND CONNECT TO COILED UP CONDUCTORS FROM KEYNOTE #4.
6. MOUNT PER DETAIL #1/E3.1.
7. MOUNT PER DETAIL #4/E3.1.
8. MOUNT PER DETAIL #5/E3.1.
9. PROVIDE A 1 1/4"C. PULL IN CABLES PER FIRE ALARM RISER DIAGRAM #1/E3.2.
10. 1/2"C - 2 #12.
11. RUN NEW RACEWAY FROM EXISTING SURFACE RACEWAY RECEPTACLE JUNCTION BOX HORIZONTAL ON WALL TO CORNER. THEN TURN UP WALL AND RUN TO NEW SURFACE RACEWAY JUNCTION BOX (LOCATED TO INTERCEPT EXISTING RACEWAY). PULL IN 2 #12 + 1 #12 GND AND CONNECT TO COILED UP CONDUCTORS FROM KEYNOTE #4.
12. RELOCATE TO THE SOUTH AS SHOWN. TO REMAIN CONNECTED AS IS.
13. TO REMAIN IN USE. NO WORK REQUIRED.
14. RUN A TWO SECTION, SURFACE NON-METALLIC RACEWAY UP WALL. FOLLOW PATH OF RACEWAY FROM KEYNOTES #5 AND #11 TO OTHER SIDE OF ROOM. IN ONE SECTION PULL IN 3 #12 + 1 #12 GND (POWER). IN THE OTHER PULL IN 2 #14.
15. PROVIDE A 3/4"C. PULL IN CABLES PER FIRE ALARM RISER DIAGRAM #1/E3.2.
16. MOUNT PER DETAIL #6/E3.1. MOUNT ON WALL BELOW DIGITAL VOICE PANEL.
17. OVERHEAD FIRE ALARM FEED PER SITE ELECTRICAL PLAN.
18. PROVIDE A 20A DUPLEX RECEPTACLE IN A SURFACE MOUNTED BOX. MOUNT ON BACKBOARD AT 36" FOR PLUGGING IN THE AC TRANSFORMER FOR THE COMMUNICATOR PANEL.
19. PROVIDE NEW CIRCUIT BREAKERS PER PANEL "PUMP" SCHEDULE ON SHEET #E4.1.
20. PROVIDE A SURFACE JUNCTION BOX AND INSTALL 8" BELOW NEW SURFACE DUPLEX RECEPTACLE. SEE DETAIL #3/E3.2 FOR ADDITIONAL INFORMATION.
21. NEW SURFACE RACEWAY JUNCTION BOX.
22. RUN CONDUIT UP WALL FROM RACEWAY JUNCTION BOX INTO ACCESSIBLE ATTIC SPACE. CONTINUE IN ATTIC SPACE T END OF BUILDING. THEN PENETRATE THROUGH WALL (SEAL PENETRATION TO PREVENT LEAKS) THEN DOWN WALL AND OVER TO PANEL "PUMP" AND CONNECT.

DIVISION OF THE STATE ARCHITECT APPLICABLE CODES AND STANDARDS

CODES:

2013 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2013 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R. (2012 INTERNATIONAL BUILDING CODE, VOLUMES 1 AND 2 WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (2011 NATIONAL ELECTRICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R. (2012 UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R. (2012 UNIFORM PLUMBING CODE WITH 2013 CALIFORNIA AMENDMENTS).

2013 CALIFORNIA ENERGY CODE (CENC), PART 6, TITLE 24 C.C.R.

2013 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R. (2012 INTERNATIONAL FIRE CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA REFERENCE 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 (CALIFORNIA AMENDED) - NATIONAL FIRE ALARM CODE, 2013 EDITION

ADAAG - AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES

UL 38 - MANUAL OPERATING SIGNAL BOXES, 2013 EDITION

UL 268 - SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2013 EDITION

UL 268A - SMOKE DETECTORS DUCT APPLICATIONS, 2009 EDITION

UL 464 - AUDIBLE SIGNAL APPLIANCES, 2012 EDITION

UL 521 - HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2010 EDITION

UL 864 - CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2012 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 2013 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 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 STRUCTURAL ENGINEER OF RECORD 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 13.6.8, 13.6.7, 13.6.5.6 AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM#).

COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.

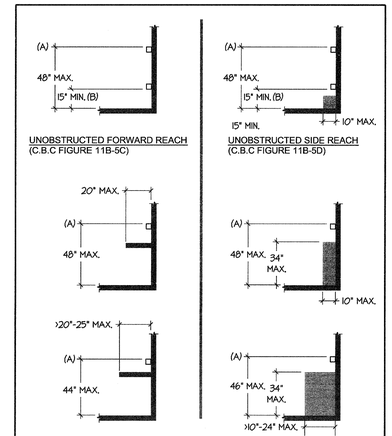
THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

TITLE 24, PART 6

THE CALIFORNIA ENERGY EFFICIENCY STANDARDS FOR NONRESIDENTIAL BUILDINGS HAS BEEN REVIEWED AND THE BUILDING DESIGN DESCRIBED ON THESE PAGES IS IN SUBSTANTIAL CONFORMANCE.

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
	SURFACE MOUNTED DUPLEX RECEPTACLE ON WALL (+18" U.O.N.)
J	JUNCTION BOX EQUIPPED WITH BLANK COVER
SD	ADDRESSABLE SMOKE DETECTOR MOUNTED ON CEILING
HD	HEAT DETECTOR MOUNTED IN ACCESSIBLE ATTIC
MM	ADDRESSABLE MONITOR MODULE
F	ADDRESSABLE MANUAL PULL STATION
(A) SP 30	FIRE ALARM VISUAL STROBE, 30 CANDELA, CEILING MOUNTED
(B) SP W.P.	FIRE ALARM EXTERIOR SPEAKER IN WALL
SCM	ADDRESSABLE SUPERVISED OUTPUT MODULE
J	SURFACE MOUNTED JUNCTION BOX ON WALL

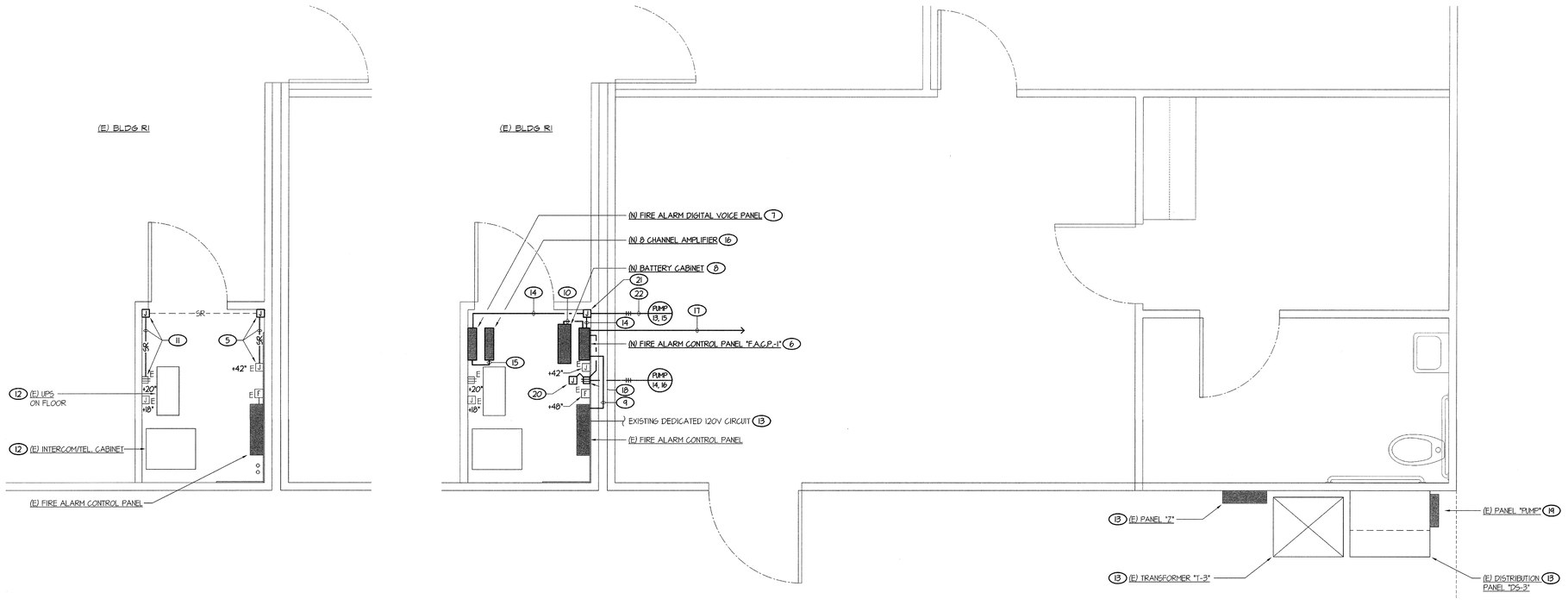
ELECTRICAL SYMBOLS NOTES:

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

(B) SEE FIRE ALARM PLAN FOR MOUNTING HEIGHTS.

GENERAL NOTE:

(1) PROVIDE ALL SURFACE RACEWAY COMPONENTS TO FORM COMPLETE AND FINISHED RACEWAY SYSTEMS.



(E) ADMIN. SIGNALS EQUIPMENT ROOM ELECTRICAL PLANS

SCALE : 1/2" = 1'-0"

PLAN NORTH

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.

HORACE MANN ELEMENTARY SCHOOL
SITE IMPROVEMENTS FOR (4) MODULAR CLASSROOMS
2710 NILES STREET
FOR
BAKERSFIELD SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL: 03-119978
FILE: 15-6
AC FLS NA SS
DATE: MAY 03 2016

PTN : 63321-206

SCARCHITECT inc
1601 NEW STINE ROAD, SUITE 280
BAKERSFIELD, CA 93309
PH: (661) 397-4377
FAX: (661) 397-4378
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LICENSED ARCHITECT STEPHEN J. CORBIN No. C-16788 STATE OF CALIFORNIA

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

REGISTERED PROFESSIONAL ENGINEER THEODORE N. ROSING No. E-14560 Exp. 6/30/17 ELECTRICAL STATE OF CALIFORNIA

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

ELECTRICAL SYMBOLS, CODES AND PARTIAL ADMIN. ELECTRICAL ROOM PLANS

JOB NO.	1218
DRAWN :	CS
CHECKED :	DS
DATE :	04-26-16

1.1
OF . SHEETS