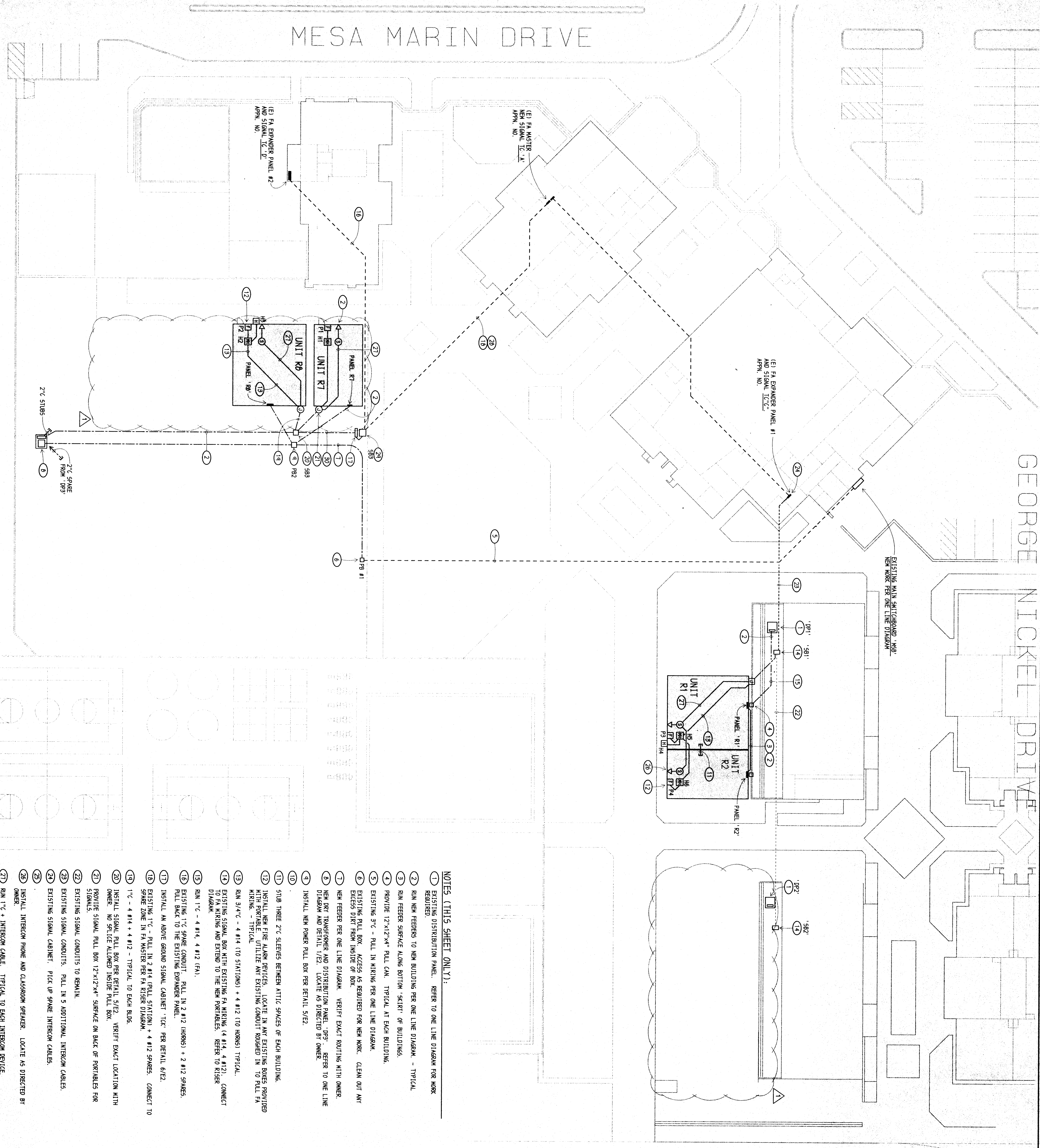


SITE ELECTRICAL PLAN

SCALE: 1" = 20'-0"



NOTES (THIS SHEET ONLY):

- 1. EXISTING DISTRIBUTION PANEL. REFER TO ONE LINE DIAGRAM FOR WORK REQUIRED.
- 2. RUN NEW FEEDERS TO NEW BUILDING PER ONE LINE DIAGRAM. - TYPICAL
- 3. RUN FEEDER SURFACE ALONG BOTTOM "SKIRT" OF BUILDINGS.
- 4. PROVIDE 12"x12"x4" PULL CAN. TYPICAL AT EACH BUILDING.
- 5. EXISTING 3" C - PULL IN WIRING PER ONE LINE DIAGRAM.
- 6. EXISTING PULL BOX. ACCESS AS REQUIRED FOR NEW WORK. CLEAN OUT ANY EXCESS DIRT FROM INSIDE OF BOX.
- 7. NEW BOX TRANSFORMER AND DISTRIBUTION PANEL. REFER TO ONE LINE DIAGRAM AND DETAIL 1/12. LOCATE AS DIRECTED BY OWNER.
- 8. INSTALL NEW POWER PULL BOX PER DETAIL 5/12.
- 9. STUB THREE 3" C SLEEVES BETWEEN ATTIC SPACES OF EACH BUILDING.
- 10. INSTALL NEW FIRE ALARM DEVICES. LOCATE IN ANY EXISTING BOXES PROVIDED WITH PORTABLE. UTILIZE ANY EXISTING CONDUIT ROUTED IN TO PULL IN WIRING. - TYPICAL
- 11. RUN 3/4" C - 4 #14 (10 STATIONS) + 4 #12 (10 WORKS) TYPICAL.
- 12. EXISTING SIGNAL BOX WITH EXISTING FA WIRING (4 #14, 4 #12). CONNECT EXISTING AND EXTEND TO THE NEW FORMABLES. REFER TO KISSER DIAGRAM
- 13. RUN 1" C - 4 #14, 4 #12 (FA).
- 14. EXISTING 1" C SNAKE CONDUIT. PULL IN 2 #12 (WORKS) + 2 #12 SPARES. PULL BACK TO THE EXISTING EXPANDER PANEL.
- 15. INSTALL AN ABOVE GROUND SIGNAL CABINET. 1" C PER DETAIL 6/12.
- 16. EXISTING 1" C - PULL IN 2 #14 (PULL STATION) + 4 #12 SPARES. CONNECT TO SNAKE RIG IN FA MASTER PER FA KISSER DIAGRAM.
- 17. 1" C - 4 #14 + 4 #12 - TYPICAL TO EACH BLDG.
- 18. INSTALL SIGNAL PULL BOX PER DETAIL 5/12. VERIFY EXACT LOCATION WITH OWNER. NO SPLICE ALLOWED INSIDE PULL BOX.
- 19. PROVIDE SIGNAL PULL BOX 12"x12"x4" SURFACE ON BACK OF PORTABLES FOR SIGNALS.
- 20. EXISTING SIGNAL CONDUITS TO REMAIN.
- 21. EXISTING SIGNAL CONDUITS. PULL IN 5 ADDITIONAL INTERCOM CABLES.
- 22. EXISTING SIGNAL CABINET. PICK UP SNAKE INTERCOM CABLES.
- 23. INSTALL INTERCOM PHONE AND CLASSROOM SPEAKER. LOCATE AS DIRECTED BY OWNER.
- 24. RUN 1" C + INTERCOM CABLE. TYPICAL TO EACH INTERCOM DEVICE.
- 25. EXISTING 1 1/2" C - PULL IN 14 INTERCOM CABLES.
- 26. EXISTING SIGNAL PULL BOX. RUN 1" C - 2 #14 + 6 #12 (FA) + 1 1/2" C - 14 INTERCOM CABLES + TWO 1 1/2" C SNAKES FROM PULL BOX TO NEW SIGNAL CABINET
- 27. 1" C - 4 #14 + 4 #12 (FA) + 1" C - 3 INTERCOM CABLES + TWO 1" SNAKES.

CODE, RULES & REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE ARCHITECT, BAKERSFIELD, CALIFORNIA, AND THE LATEST REGULATIONS OF THE BAKERSFIELD UNIFIED SCHOOL DISTRICT, BAKERSFIELD, CALIFORNIA. THE FOLLOWING CODES, RULES AND REGULATIONS SHALL BE APPLIED TO THIS PROJECT:

- 1. CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
- 2. CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24, C.C.R.
- 3. CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24, C.C.R.
- 4. CALIFORNIA NATIONAL ELECTRICAL CODE AND 1998 CALIFORNIA AMENDMENTS
- 5. CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24, C.C.R.
- 6. CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24, C.C.R.
- 7. CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24, C.C.R.
- 8. CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24, C.C.R.
- 9. CALIFORNIA REFERENCED STANDARDS CODE (C.R.S.C.), PART 12, TITLE 24, C.C.R.
- 10. TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

DIVISION OF THE STATE ARCHITECT APPLICABLE CODES AND STANDARDS

1. CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.- 2. CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24, C.C.R.
- 3. CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24, C.C.R.
- 4. CALIFORNIA NATIONAL ELECTRICAL CODE AND 1998 CALIFORNIA AMENDMENTS
- 5. CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24, C.C.R.
- 6. CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24, C.C.R.
- 7. CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24, C.C.R.
- 8. CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24, C.C.R.
- 9. CALIFORNIA REFERENCED STANDARDS CODE (C.R.S.C.), PART 12, TITLE 24, C.C.R.
- 10. TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

SEISMIC ANCHORAGE REQUIREMENTS

ALL ELECTRICAL EQUIPMENT SHALL BE BOLTED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CALIFORNIA EQUIPMENT ON FRAME TO COMPLY WITH 1998 CBC AND TABLE 1541-D AND TABLE 1541-E.

THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR OF 1.0 AND SEISMIC ZONE, Z = 0.4.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD ENGINEER SHALL CONSULT WITH THE DIVISION OF THE STATE ARCHITECT.

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS

RESULT OF OPERATION	INITIATION			
	MANUAL	SMOKE	LOSS OF POWER	SHUNT (CIRCUIT) / GROUND FAULT
ANNUNCIATE ALARM	YES	YES	YES	YES
ANNUNCIATE TROUBLE	YES	YES	YES	YES
ACTIVATE ALL AUDIBLE ALARMS	YES	YES	YES	YES
ACTIVATE ALL VISUAL ALARMS	YES	YES	YES	YES
TRANSFER TO BATTERY BACK-UP	YES	YES	YES	YES

FIRE ALARM LEVEL OF AUDIBILITY

ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 DB ABOVE AMBIENT NOISE LEVELS MEASURED FOUR FEET ABOVE THE FLOOR INSIDE BUILDING.

AMBIENT NOISE LEVELS SHALL BE CONSIDERED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATIVE OR WORKING CONDITIONS.

THE FIRE ALARM SIGNAL SHALL COMPLY WITH THE CALIFORNIA FIRE CODE, SECTION 32000, 32001, AND BE A THERMAL PATTERNS, CODE 3.

FIRE ALARM SYSTEM REQUIREMENTS

THE FIRE ALARM SYSTEM SHALL COMPLY TO CALIFORNIA BUILDING CODE, SECTION 305.9, CALIFORNIA ELECTRICAL CODE, ARTICLE 760 AND CALIFORNIA FIRE CODE, ARTICLE 10.

INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL THE "FIRE ALARM COMPONENT SUBMITTAL" HAS BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT - OFFICE OF REGULATION SERVICES.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE BAKERSFIELD FIRE AGENCY, NFPA 72. IF TESTING RESULTS REVEAL DEFICIENCIES, THE SYSTEM SHALL BE REINSTALLED TO CORRECT THE DEFICIENCIES. ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE BAKERSFIELD FIRE AGENCY PER CALIFORNIA FIRE CODE.

A CERTIFICATE OF COMPLETION SHALL BE PROVIDED TO THE OWNER PER NFPA 72 CHAPTER 1 AND THE CALIFORNIA FIRE CODE.

COMPLETE MANUAL FIRE ALARM 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 DIVISION OF THE STATE ARCHITECT FOR REVIEW AND APPROVAL. ADDITIONAL FEES MAY BE INCURRED DUE TO THIS SUBSTITUTION.

MARK	DATE	REVISIONS
A	1-28-05	REVISION 1
A		
A		
A		

BEFORE PROCEEDING WITH THE WORK, REPORT DISCREPANCIES TO THE ARCHITECT. ALL CONSTRUCTION SHALL CONFORM TO THE C.B.C.

RELOCATABLE CLASSROOMS
CESAR E. CHAVEZ ELEMENTARY SCHOOL
4210 MESA MARIN DRIVE
FOR
BAKERSFIELD UNIFIED SCHOOL DISTRICT
BAKERSFIELD, KERN COUNTY, CALIFORNIA

REVISIONS
DATE
BY
CHECKED
DATE

ARCHITECT
BOB L. SMITH
REGISTERED ARCHITECT
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FE: (650) 327-2329

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FE: (650) 327-2329

SITE ELECTRICAL PLAN

JOB NO. 98103-306
DATE: 11/26/05
SHEETS 1