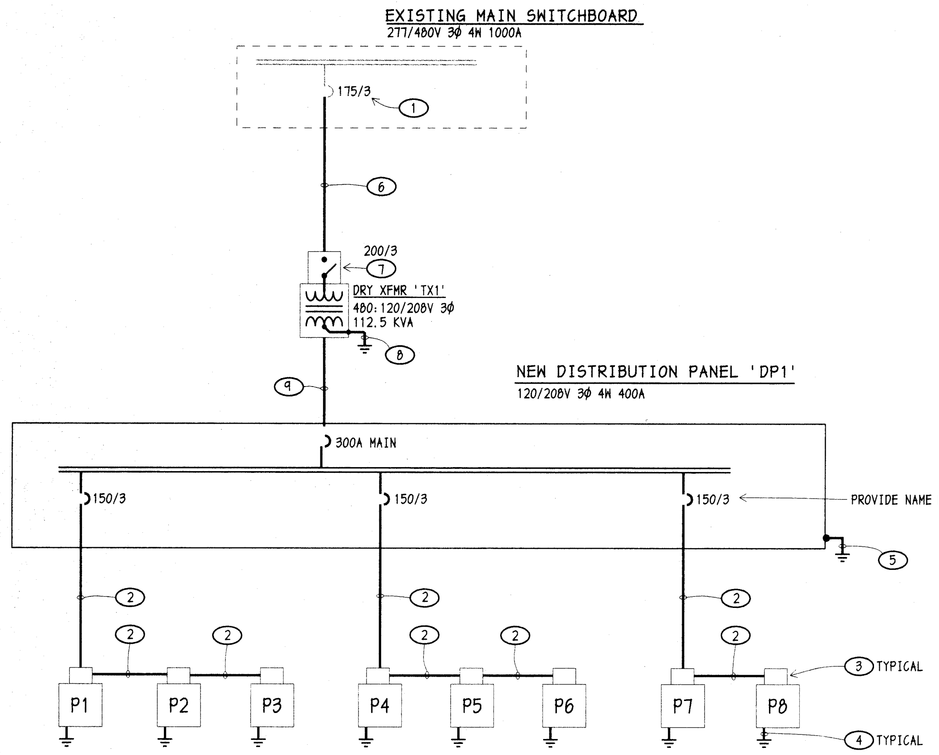


ONE LINE DIAGRAM #1 NOTES:
(ALL CONDUCTORS SHALL BE THWN-CU)

1. ADD BREAKER AS NOTED. PROVIDE ANY NECESSARY HARDWARE.
2. 2"C - 4 #1/0 + 1 #6 GND
3. FEEDER TAP BOX
4. GROUND PER DETAIL (4)
5. GROUND PER DETAIL (5)
6. 2 1/2"C - 3 #2/0 + 1 #6 GND
7. NON-AUTO DISCONNECT SWITCH.
8. GROUND PER DETAIL (3)
9. TWO 2 1/2"C - 4 #3/0 + 1 #2 IN EACH.

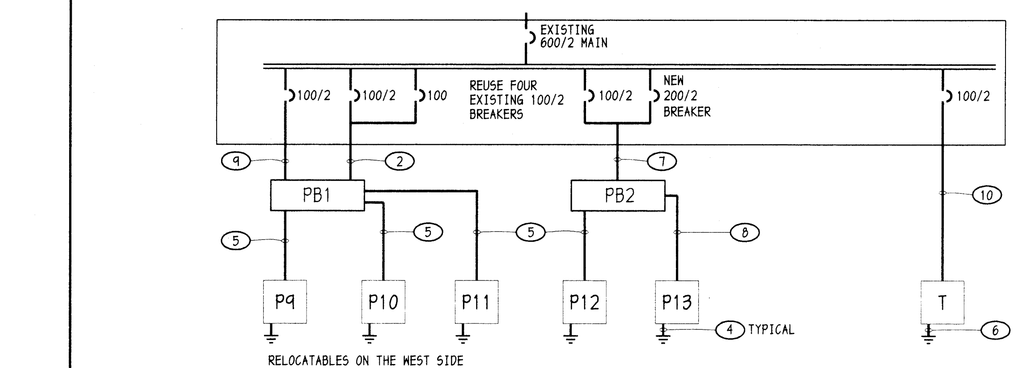
LOAD SUMMARY:

8 BUILDINGS AT 10 KW EACH ..... = 80 KVA
96 AMPS

THE EXISTING 1000AMP SERVICE HAS CAPACITY FOR THESE NEW RELOCATABLES.

1 ONE LINE DIAGRAM #1

NTS



ONE LINE DIAGRAM #2 NOTES:
(ALL CONDUCTORS SHALL BE THWN-CU)

1. ADD BREAKER AS NOTED. PROVIDED ANY HARDWARE NECESSARY.
2. 2"C - 6 #2 + 1 #8 GND
3. FEEDER TAP BOX.
4. GROUND PER DETAIL (4)
5. 1 1/2"C - 3 #2 + 1 #8 GND.
6. GROUND PER DETAIL (5)
7. 2"C - 3 #3/0 + 3 #2 + 1 #6 GND
8. 2"C - 3 #3/0 + 1 #6 GND
9. 2"C - 3 #2 + 1 #8 GND
10. 2"C - 3 #1 + 1 #8 GND

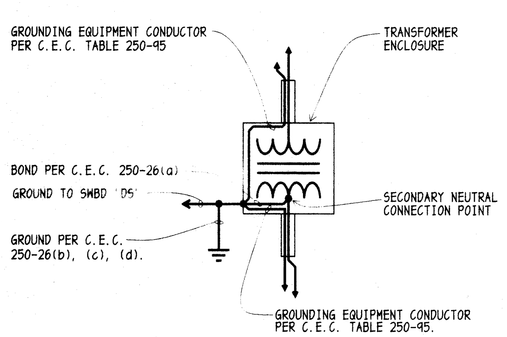
LOAD SUMMARY:

6 BUILDINGS AT 10 KW EACH ..... = 60 KVA
= 250AMPS

THE EXISTING 600AMP SERVICE HAS CAPACITY FOR THESE NEW RELOCATABLES

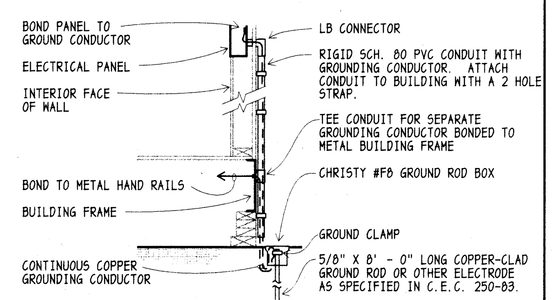
2 ONE LINE DIAGRAM #2

NTS



3 TRANSFORMER GROUNDING & BONDING

NTS

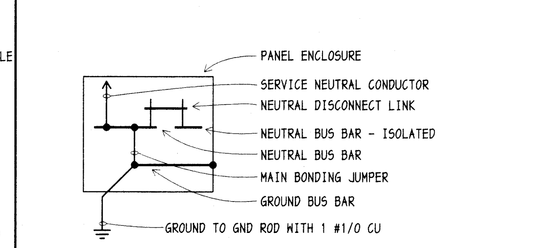


TEST SPECIFICATION FOR ELECTRODE GROUNDING SYSTEM - THE GROUNDING ELECTRODE(S) SHALL BE TESTED BY THE FALL OF POTENTIAL METHOD AS SPECIFIED IN IEEE STD. 81-1983 & SHOWN TO BE 25 OHMS OR LESS. A COPY OF THE TEST REPORT SHALL BE SUBMITTED TO THE ARCHITECT. PROJECT INSPECTOR SHALL WITNESS TEST.

4 SYSTEM GROUND DETAIL

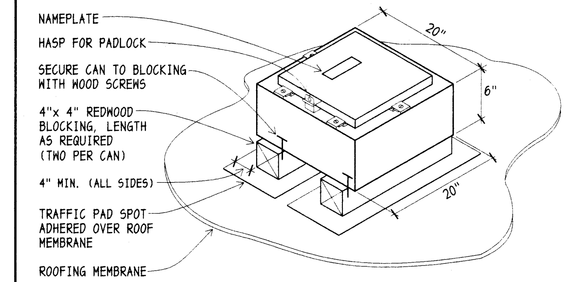
BOND BUILDINGS TOGETHER WITH 1 #6 CU WHEN PORTABLES ARE LOCATED SIDE BY SIDE.

NTS



5 GROUNDING ELECTRODE SYSTEM FOR REMOTE BUILDING SUB PANELS

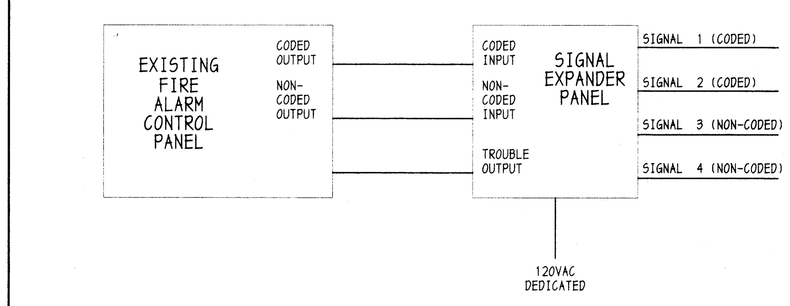
NTS



6 SIGNALS PULL CAN

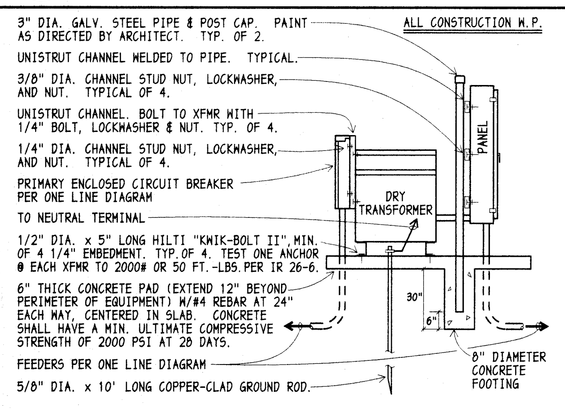
(ON ROOF OF WALKWAY)

NTS



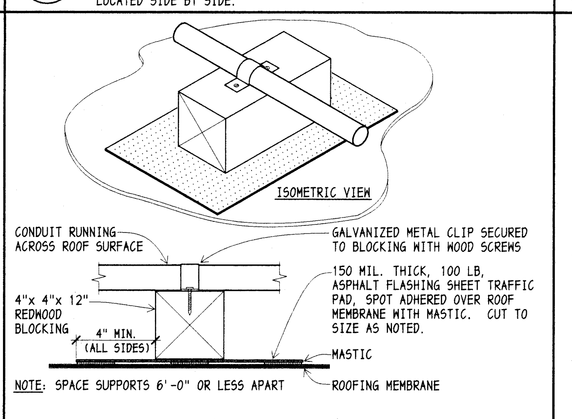
11 FIRE ALARM EQUIPMENT WIRING DIAGRAMS

NTS



7 DRY XFMR 'TX1' & PANEL 'DP1' DETAIL

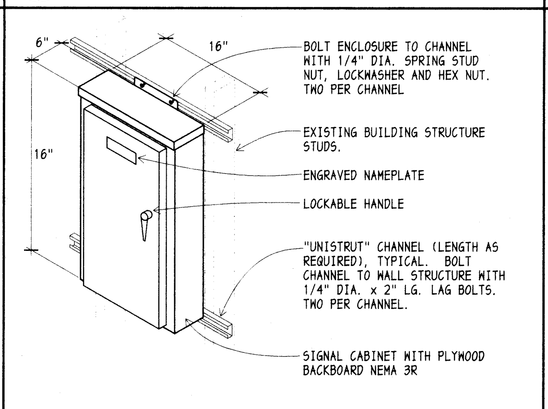
NTS



NOTE: SPACE SUPPORTS 6'-0" OR LESS APART

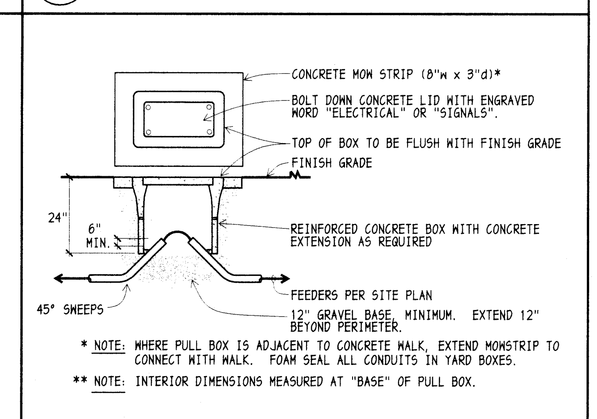
8 CONDUIT ON ROOF

NTS



9 EXTERIOR SIGNAL/FIRE ALARM CABINET

NTS

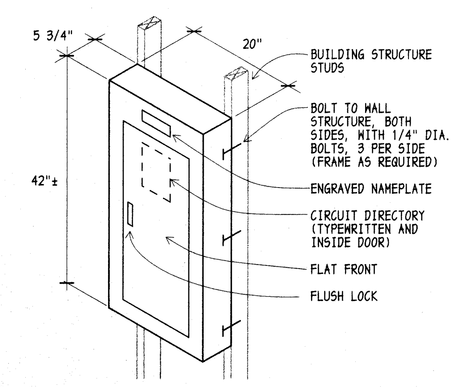


* NOTE: WHERE PULL BOX IS ADJACENT TO CONCRETE WALK, EXTEND MOWSTRIP TO CONNECT WITH WALK. FOAM SEAL ALL CONDUITS IN YARD BOXES.

** NOTE: INTERIOR DIMENSIONS MEASURED AT "BASE" OF PULL BOX.

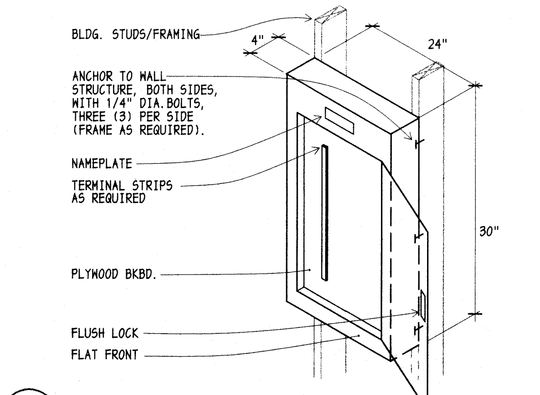
10 POWER OR SIGNALS PULL BOX

NTS



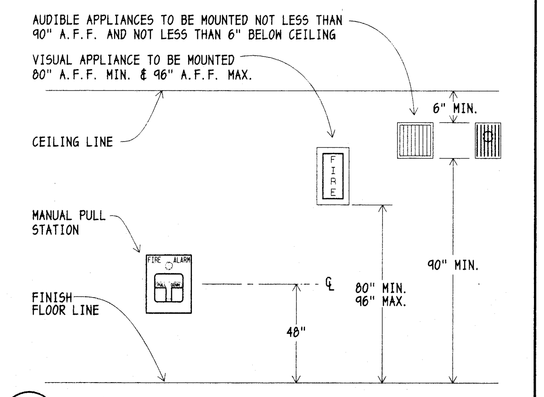
12 SURFACE MOUNTED PANEL 'T'

NTS



13 SURFACE MTD. SIGNAL 'TCT'

NTS



14 FIRE ALARM DEVICES ELEVATION

NTS

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 ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

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MARK	DATE	REVISIONS
1		
2		
3		
4		
5		

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

RESTROOM BUILDING
RELOCATABLE CLASSROOMS

1015 NOBLE AVE.
FOR
MYRA A. NOBLE SCHOOL
BAKERSFIELD, KERN COUNTY, CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL: 03-104224
FILE: 15-6
AC: FLS: SS:
DATE:

ARCHITECT SC INC.
1301 L STREET
BAKERSFIELD, CA 93301
PH: (661) 327-1632
FAX: (661) 327-2339
LICENSED ARCHITECT STEPHEN J. CORBIN No.C-16788 REN.11/30/01 STATE OF CALIFORNIA
STEPHEN J. CORBIN, AKAMA, AIA

REGISTERED PROFESSIONAL ENGINEER GERALD W. CORNELIUS No. 7198 Exp. 9/30/02 ELECTRICAL STATE OF CALIFORNIA
CORNELIUS CONSULTING GROUP, INC.
Consulting Electrical Engineers
131 S. Dunworth - Ph.733-2671
Visalia, California 93292-6705

ONE LINE DIAGRAM AND DETAILS

JOB NO. 976
DRAWN :
CHECKED :
DATE : 12/19/00

2
17 OF 18 SHEETS

X:\JOBS\SCHOOLS\BFIELD\DGS\NOBLE\E2R.2D REVISED 12-19-00 BY: rps