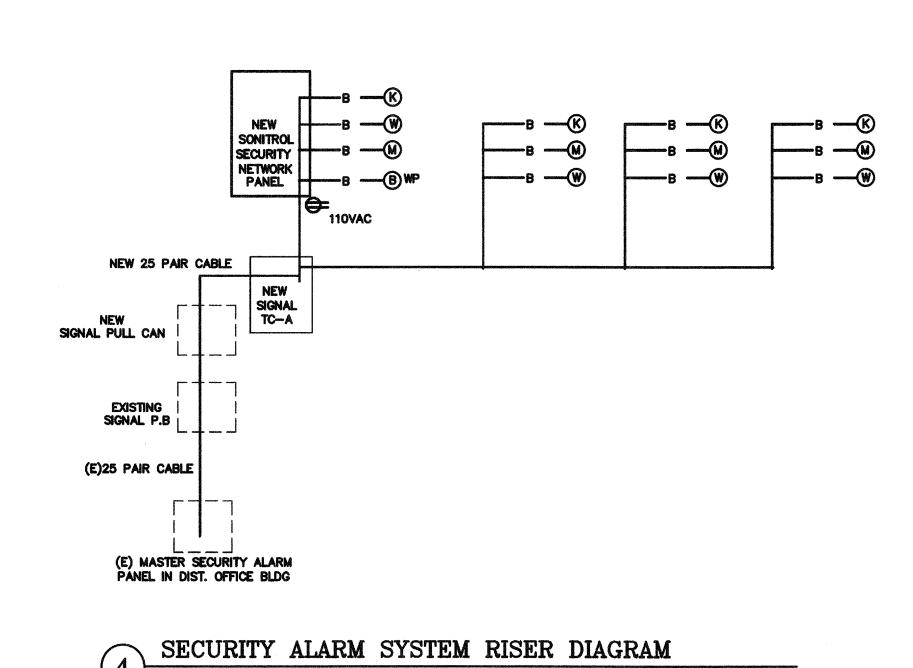


TYPICAL FIRE ALARM DEVICES MT'D DETAIL



PANEL BONDED TO

SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250-66.
 BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME PER CEC 250-50. IN ADDITION TO THE DETAIL

TOGETHER, BOND TO HAND RAIL AND WATER PIPE IF APPLIED. (BOLTING ONLY

6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250-84).

IS NOT ACCEPTABLE BONDING).

4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEED 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST

5. FIELD INSPECTOR SHALL WITNESS GROUNDING TEST.

SHOWN ABOVE BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. IN SOIL IF AVAILABLE (CEC 250-50, 250-82). ALL MADE OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED

ELECTRICAL

CONCRETE FOUNDATION

GROUND CONDUCTOR

ATTACHED TO WALL WITH

TEE CONDUIT FOR SEPARATE
CONDUCTOR GROUND BONDED
TO METAL BUILDING FRAME &:
WATER AND GAS PIPE IF APPLIED

- 3/4°#x10'-0" LONG COPPER CLAD GROUND ROD OR OTHER ELECTRODE AS SPECIFIED IN CEC 250-83. PROVIDE GROUND CLAMP AND GROUND ROD BOX.

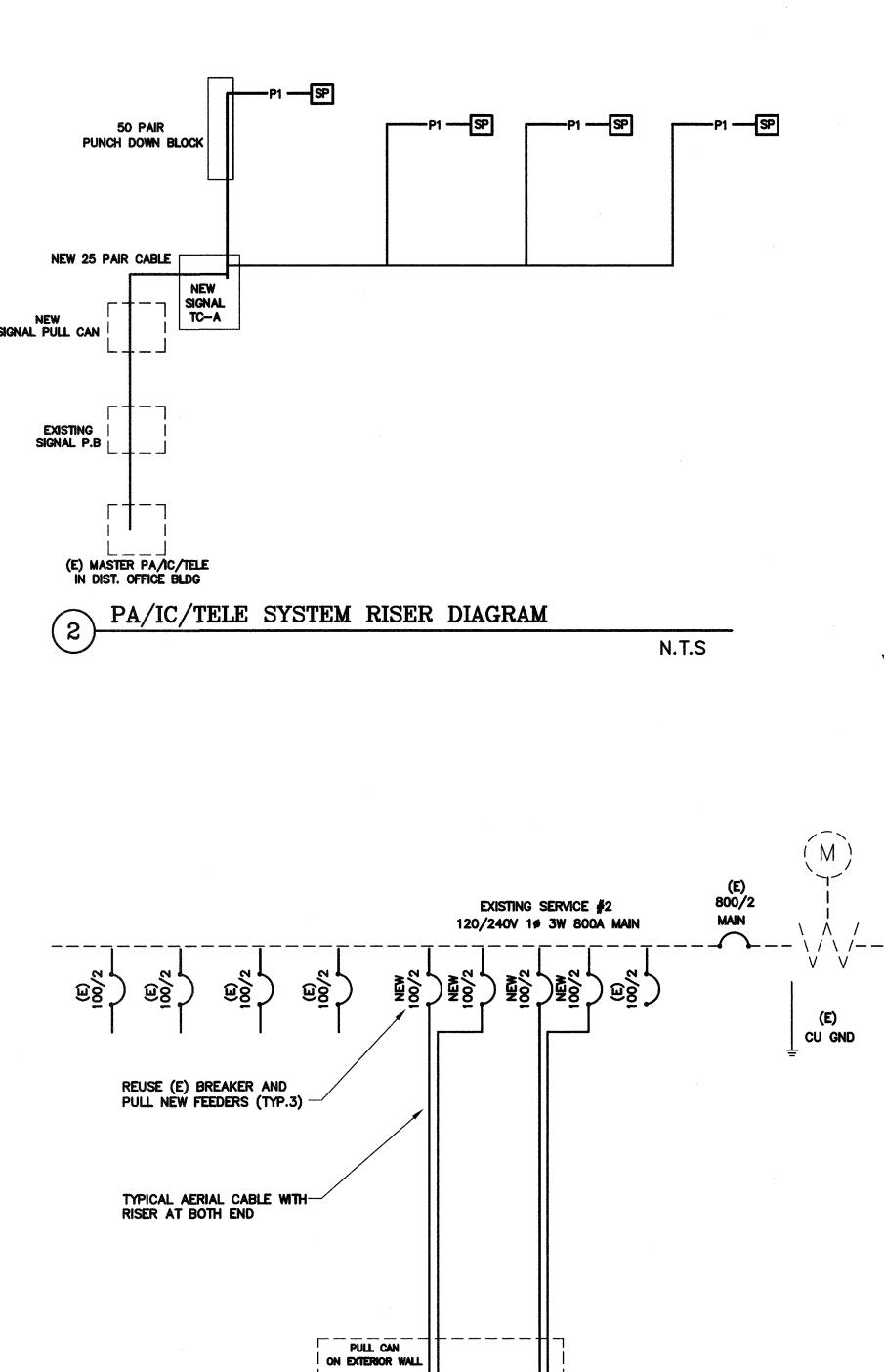
20 FT OF 1/20 REBAR OR #4 BARE COPPER ENCASED BY AT LEAST 2 INCHES OF CONCRETE

N.T.S

2-HOLE STRAPS

N.T.S

NEW 25 PAIR CABLE [SIGNAL TC-A SIGNAL PULL CAN SIGNAL P.B (E) MASTER PA/IC/TELE IN DIST. OFFICE BLDG TYPICAL SURFACE CONDUIT AND FEEDER ON BUILDING #4 CU GROUNDING. SEE DETAIL 3/E-4



1. PROVIDE NEW MATCHING BREAKERS, FEEDERS AND PANELS PER PLANS. 2. ALL NEW CONDUCTOR SHALL BE 75°C THWN-2 COPPER IN CONDUIT. (AMPACITY FOR CONDUCTOR SELECTION MUST BE DETERMINED/DERATED BY THE ALLOWED TERMINATION RATINGS MARKED/APPROVED ON EACH DEVICES, MOTOR, APPLIANCE, XFMR O.C.P.C. PANEL, ETC. CONDUCTORS INSTALLED IN U.G OR WET LOCATIONS SHALL BE MARKER 'W'. PER 2010 CEC 110—14(C)(1).)

ALL WIRING OVER 100 VOLT SHALL BE INSTALLED IN RACEWAY CONDUIT, EMT ABOVE GRADE, PVC SCH. 40 BELOW GRAD AND STEEL CONDUIT ON EXPOSE SURFACE BELOW 8' AFF. FOR PHYSICAL PROTECTION.

MC CABLE WITH SEPARATE GROUND CONDUCTOR CAN BE USED IN CEILING AND CONCEAL IN WALL.

STEEL BACK BOX SHALL BE PROVIDE FOR ALL NEW ELECTRICAL DEVICES SUCH AS SWITCH, OUTLET AND CONDUCTOR SPLICE.

ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXISTING SWITCHBOARD AND PANELS ARE INSTALL PER ONE LINE DIAGRAM PRIOR TO WORKING, AND REPORT TO ENGINEERS IF ANY DISCREPANCY ARE FOUND.

SINGLE LINE DIAGRAM



DIAG BLE S≺ Y EI Agency Approval Stamp: IDENTIFICATION STAMP DIN- OF THE STATE ARCHITECT APPO3 11657 AC - FLS EX SPEC DATE SEP 2 3 2015 5156 9/21/2015 7:16:49 AM

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