

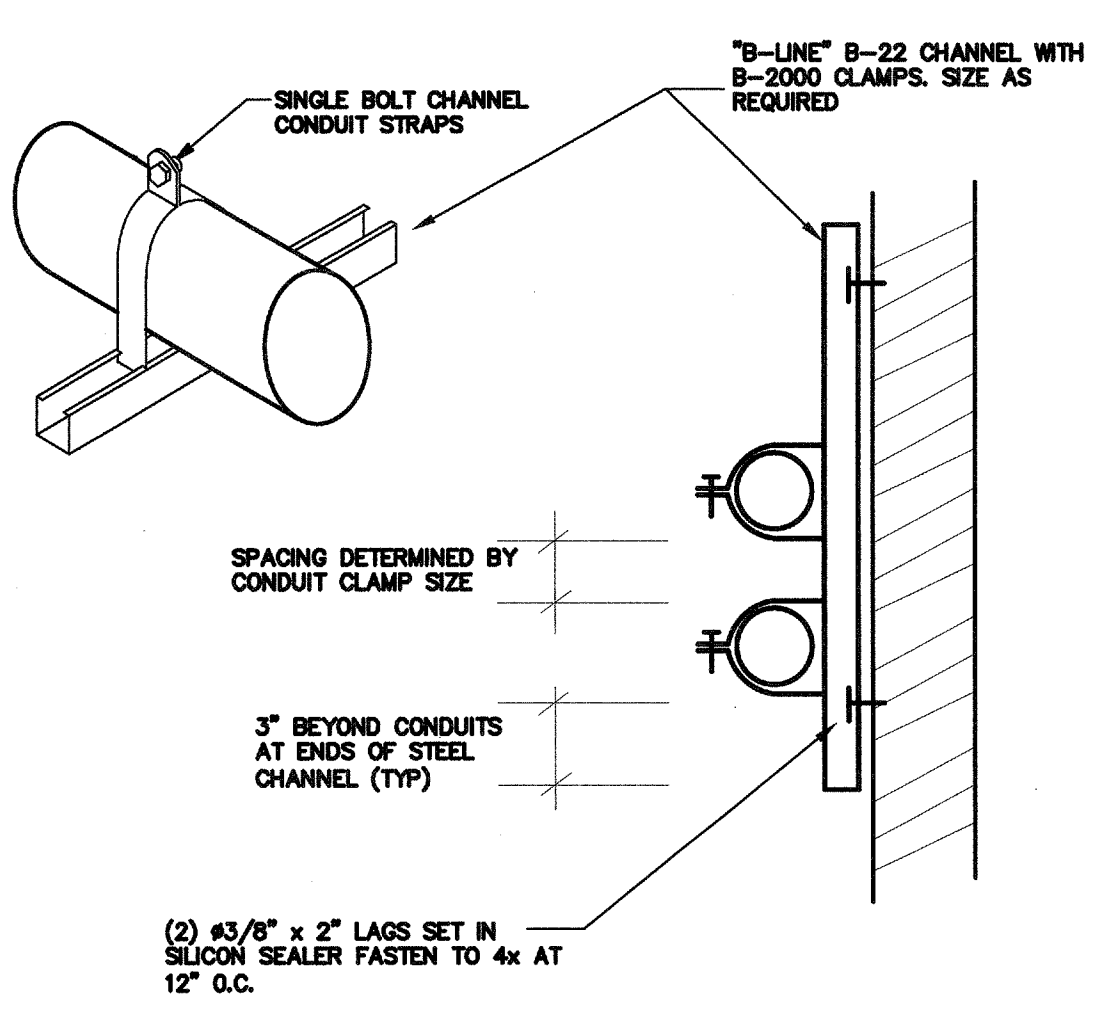
FIBER OPTIC CABLE
 THREE MULTIMODE PAIRS (SIX STRANDS) AND THREE SINGLE-MODE PAIRS (SIX STRANDS)
 OPTICAL CABLE COMPANY # DX 12/065D-6W3SB/1U0-6SYMC-YMD/900-0FNR OF EQUAL
CABLE TESTING
 ALL FIBER OPTIC CABLE MUST BE TESTED TO SUPPORT 1000BASE-FX FULL DUPLEX STANDARDS,
 ALL CAT 6E CABLE MUST BE TESTED TO SUPPORT 100BASE-TX.
 TEST RESULTS ARE TO BE PROVIDED TO SCHOOL TECHNOLOGICAL SERVICES FOR REVIEW AND APPROVAL.

IDF SWITCH EQUIPMENT
 F/O CISCO WS-C2950G-24 W/ WS-C5484 GBIC
 TP CISCO WS-C2950-24
 CABINETS SOUTH WESTERN DATA PRODUCT SWE 4000-180DBLK OR EQUAL
 JACKS ALLEN TEL. AT55-16 OR EQUAL
 FACEPLATE ALLEN TEL. AT30-2-09 OR EQUAL
 PATCH PANEL ALLEN TEL. ATPNL-24 OR EQUAL

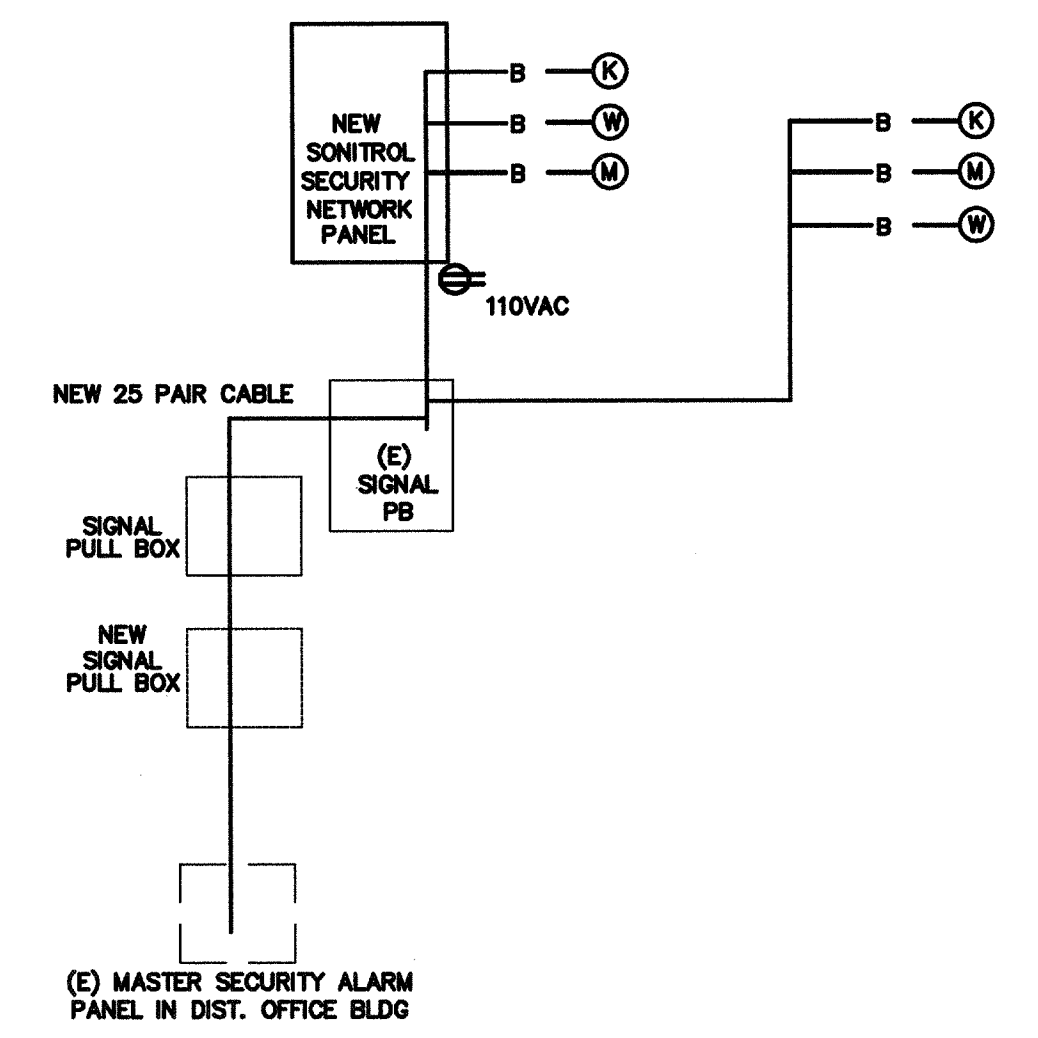
LABELING IDENTIFICATION
 ALL INSTALLED EQUIPMENT, CABLES, TERMINATIONS, ETC. WILL BE PERMANENTLY AND UNIQUELY MARKED. CABLES
 WILL BE MARKED USING A CONVENTION THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION. LAN TERMINATIONS WILL
 SIMILARLY BE MARKED TO UNIQUELY IDENTIFY THEM WHILE PROVIDING THE SOURCE AND DESTINATION OF CABLE.
 IDENTIFICATIONS MUST BE SUCH THAT THEY WILL NOT RUB OFF, FALL OFF, OR EASILY BREAK AWAY.

DATA COMMUNICATION SYSTEM NOTES
 1. CONTRACTOR TO PROVIDE ALL EQUIPMENT, PATCH CABLE AND ACCESSORY FOR A FULLY FUNCTIONAL SYSTEM.
 2. NEW DATA JACK WIRING CONFIGURATION MUST BE MATCHED EXISTING SYSTEM. FIELD VERIFY PRIOR TO
 INSTALLATION.
 3. ADMINISTRATIVE NODE TO BE RED IN COLOR WITH THE INSTRUCTIONAL NODE TO BE BLUE IN COLOR. NODE
 LOCATION MUST BE 12" WITHIN POWER RECEPTACLE AND FIELD VERIFY EXACT LOCATION WITH OWNER PROJECT
 COORDINATOR OR TECHNOLOGICAL SERVICES PERSONNEL PRIOR TO INSTALLATION.
 4. ALL EQUIPMENT DOCUMENTATION AND WARRANTY INFORMATION WILL BE PROVIDED TO OWNER TECHNOLOGICAL
 SERVICES. WARRANTY CARDS WILL BE PROVIDED TO MSD TECHNOLOGICAL SERVICES FOR FILING WITH
 MANUFACTURERS UPON COMPLETION OF INSTALLATION.

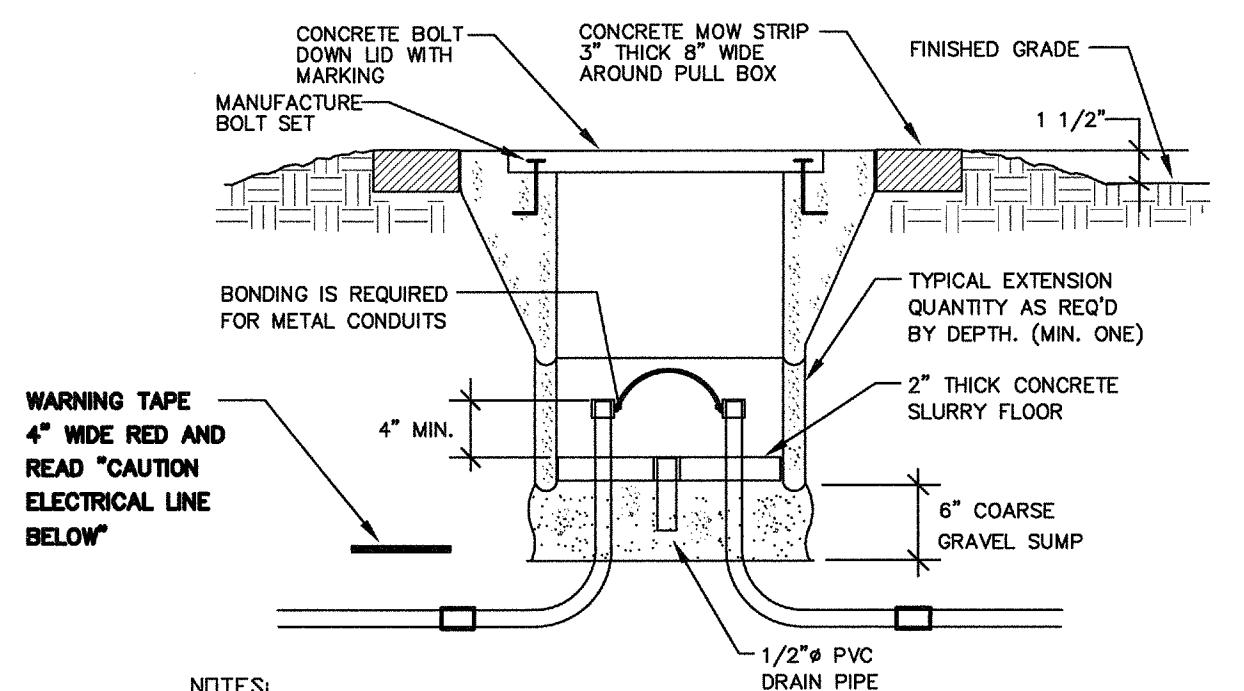
7 DATA COMMUNICATION SYSTEM RISER DIAGRAM N.T.S.



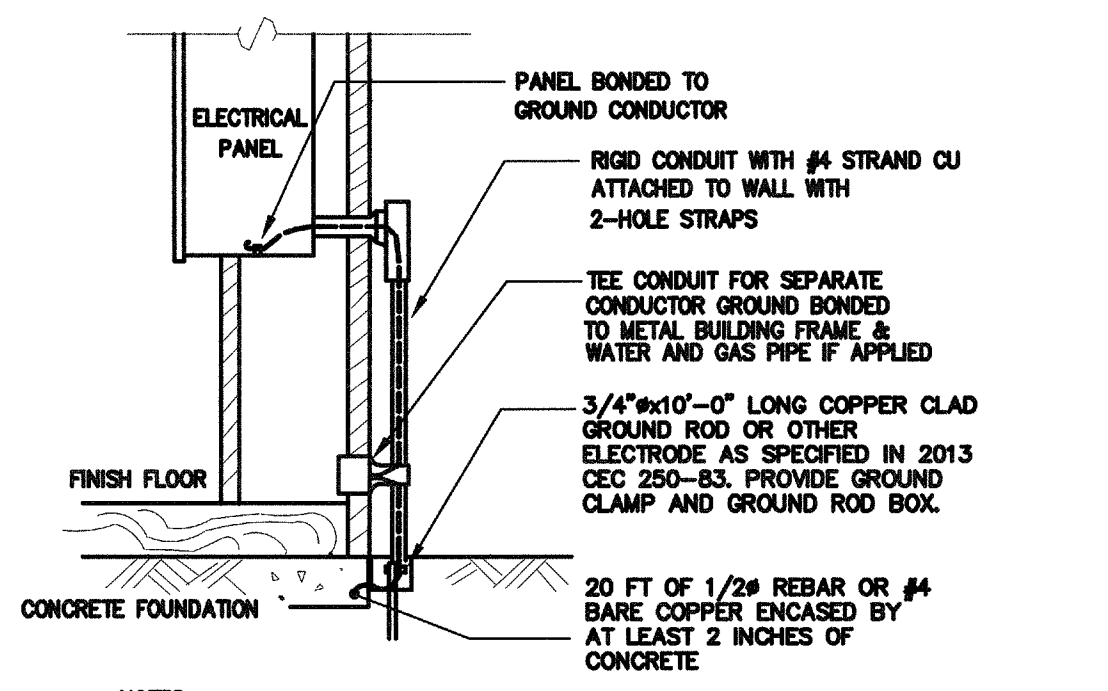
6 CONDUIT SUPPORT DETAIL N.T.S.



5 SECURITY ALARM SYSTEM RISER DIAGRAM N.T.S.

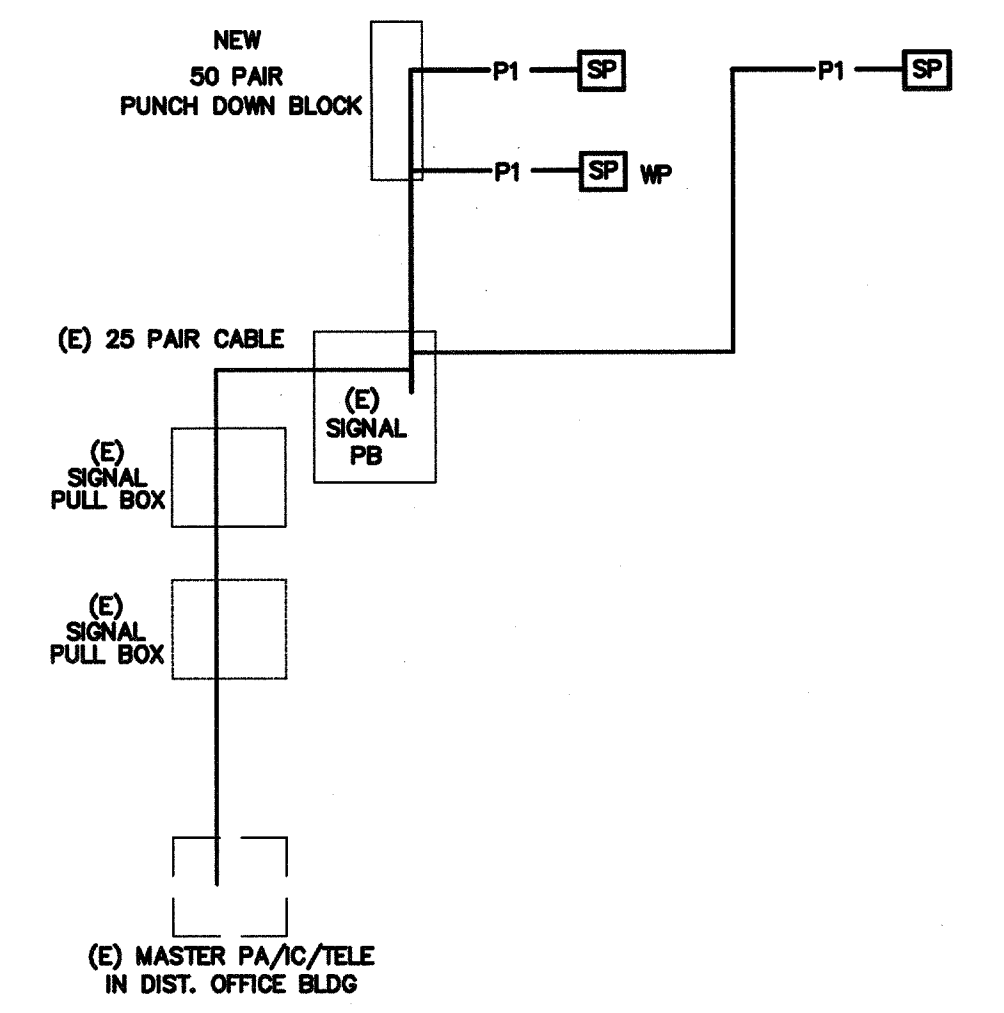


4 PULL BOX AT OPEN YARD DETAIL N.T.S.

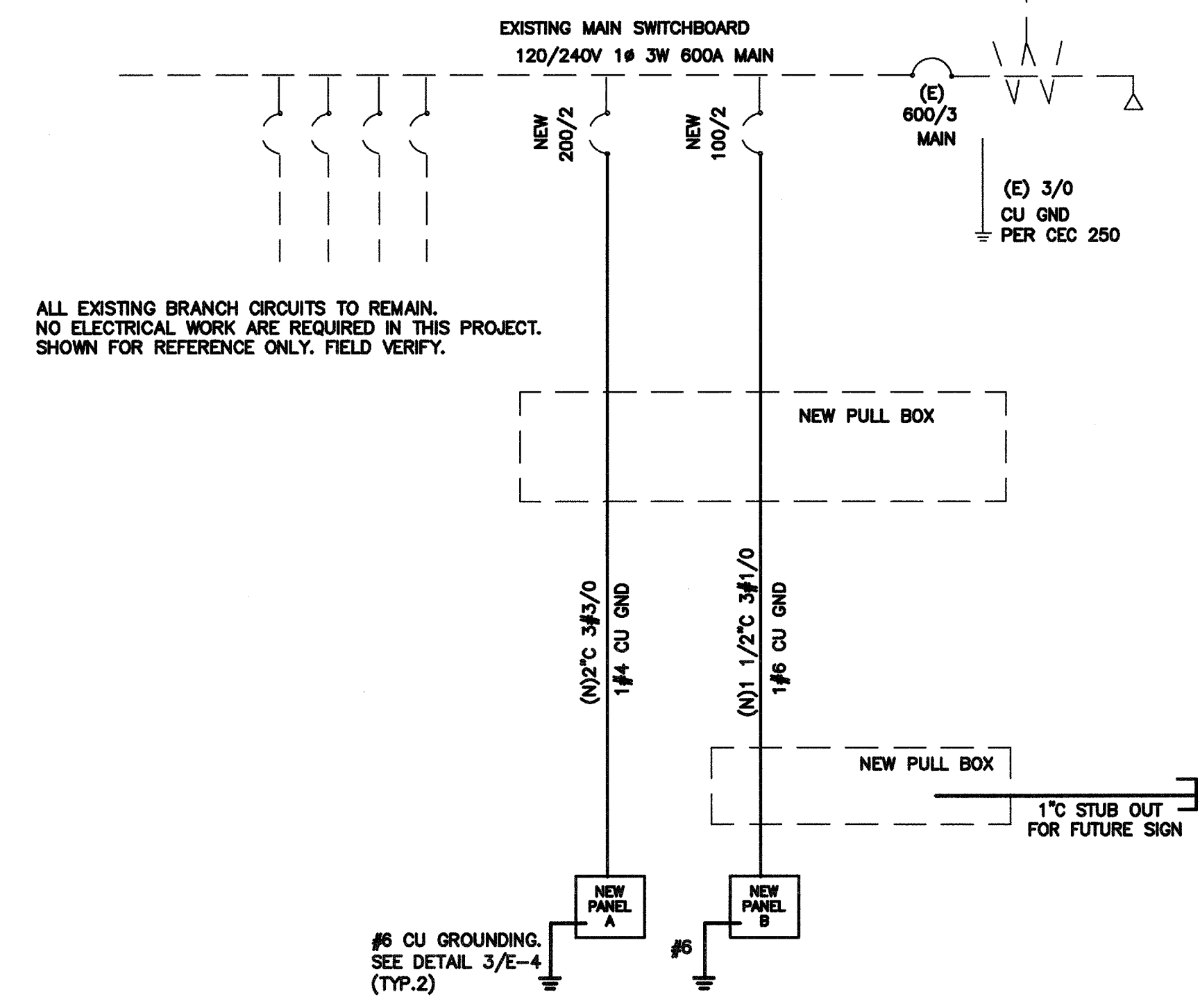


NOTES:
 1. SIZE OF CONDUCTORS SHALL COMPLY WITH 2013 CEC TABLE 250-66.
 2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO
 METAL BUILDING FRAME PER 2013 CEC 250-50. IN ADDITION TO THE DETAIL SHOWN
 ABOVE BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST
 10 FT. IN SOIL IF AVAILABLE (CEC 250-50, 250-82).
 3. ALL MADE OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER,
 BOND TO HAND RAIL AND WATER PIPE IF APPLIED. (BOLTING ONLY 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
 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (2013 CEC 250-84).
 5. FIELD INSPECTOR SHALL WITNESS GROUNDING TEST.

3 GROUNDING DETAIL N.T.S.



2 PA/IC/TELE SYSTEM RISER DIAGRAM N.T.S.



NOTES:
 1. PROVIDE NEW MATCHING BREAKERS, FEEDERS AND PANELS PER PLANS.
 2. ALL NEW CONDUCTOR SHALL BE 75°C THW-2 COPPER IN CONDUIT. (AMPACITY FOR CONDUCTOR SELECTION MUST BE
 DETERMINED/OPERATED 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 2013 CEC 110-14(C)(1).
 3. 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.
 4. STEEL BACK BOX SHALL BE PROVIDE FOR ALL NEW ELECTRICAL DEVICES SUCH AS SWITCH, OUTLET AND CONDUCTOR SPLICE.
 5. 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.

1 SINGLE LINE DIAGRAM N.T.S.

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Revision	Description	Date

DETAILS AND SYSTEM DIAGRAMS

FREMONT ELEMENTARY SCHOOL
2 RELOCATABLE CLASSROOMS
 BAKERSFIELD CITY SCHOOL DISTRICT
 607 TEXAS STREET, BAKERSFIELD, CA

Issue Date: 00/00/14
 Date: 05/28/14
 Designer: J CHONG
 DR: J CHONG
 JC: C.M.

Agency Approval Stamp:

Stamp(s):

IDENTIFICATION STAMP
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 APP03 116973
 AC: FLS STEBS
 DATE: APR 18 2016

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Sheet No.: **E-4**

Release: