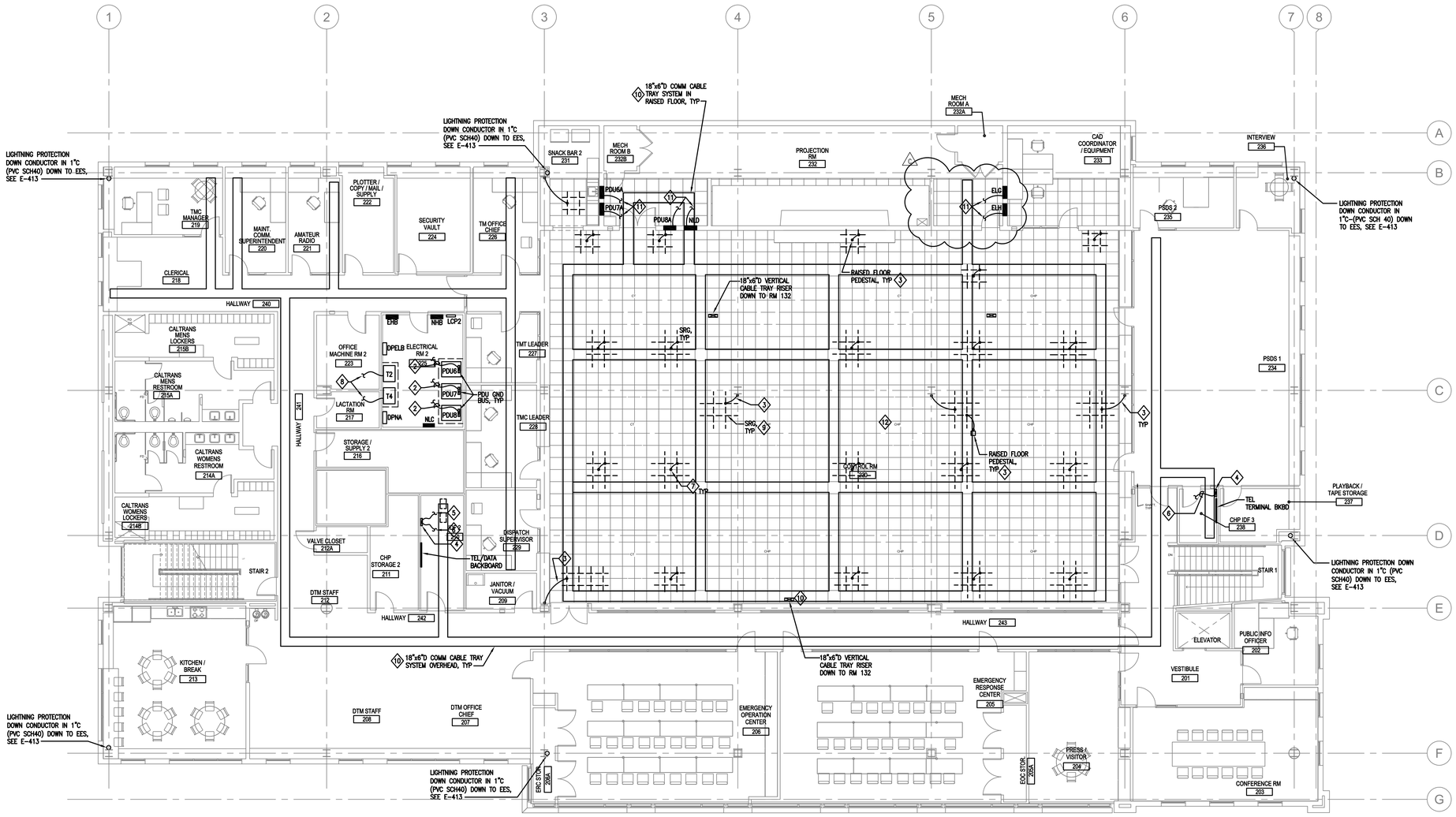
NOTES:

1. SEE SHEET E-100 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
2. PROVIDE #1/0 BONDING JUMPER FROM POWER DISTRIBUTION UNIT (PDU) GROUND BUS TO SRG. ADDITIONALLY, PROVIDE #1/0 GROUNDING ELECTRODE CONDUCTOR TO NEAREST BUILDING STEEL. ALL CONNECTIONS TO SRG AND BUILDING STEEL SHALL BE EXOTHERMIC WELD.
3. PROVIDE #4 BONDING JUMPER FROM SRG TO ALL BUILDING STEEL COLUMNS AS SHOWN. ADDITIONALLY, PROVIDE #4 BONDING JUMPER FROM SRG TO EVERY 6TH RAISED FLOOR PEDESTAL IN EACH DIRECTION. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD. ALL JUMPERS SHALL BE AS SHORT AS POSSIBLE.
4. TELEPHONE/COMM EQUIPMENT GROUND BUS BAR. SEE DETAIL 1 ON SHEET E-811
5. 1 1/2"C-1#4/0 THW GRN GROUNDING CONDUCTOR DOWN TO COMM GROUNDING BUS BAR IN IDF1 ROOM 114. USE BOLTED CONNECTION.
6. 3/4"C-1#6 THW GRN GROUNDING TO NEAREST ACCESSIBLE BUILDING STEEL. CONNECTION SHALL BE EXOTHERMIC WELD.
7. PROVIDE #1/0 GROUNDING ELECTRODE CONDUCTOR TO THE NEAREST BUILDING STRUCTURAL STEEL. CONNECTION SHALL BE EXOTHERMIC WELD.
8. CONNECT TRANSFORMER GROUNDING CONDUCTOR TO THE NEAREST BUILDING STRUCTURAL STEEL WITH EXOTHERMIC WELD. CONDUCTOR SIZE SHALL BE AS INDICATED ON SHEETS E-610 AND E-611
9. SIGNAL REFERENCE GRID (SRG) SHALL CONSIST OF PRE-ENGINEERED SECTION OF FLAT COPPER STRIPS, 2" X 26 GAGE, 24" ON CENTER WITH EXOTHERMIC WELD AT EACH JOINT. PROVIDE IN THE ENTIRE ROOM UNDER RAISED FLOOR, DIRECTLY ON STRUCTURAL SLAB.
10. PROVIDE CONTINUOUS GROUNDING PATH FOR THE CABLE TRAY SYSTEM UTILIZING #6 AWG INSULATED COPPER CABLE BONDING JUMPER TO INTERCONNECT TRAY SECTIONS AND FITTINGS. BOND END OF TRAY WITH #6 AWG GREEN GROUNDING CONDUCTOR TO BLDG STRUCTURAL STEEL.
11. POWER DISTRIBUTION PANELS AND PDU'S SHALL BE BONDED WITH #1/0 BONDING JUMPER TO THE BUILDING STEEL. THE GROUNDING WIRE INSIDE ANY PANEL OR ENCLOSURE SUPPLYING AC POWER TO THE COMPUTER EQUIPMENT SHALL BE BONDED TO ITS ENCLOSURE.
12. ALL COLUMNS, CONDUITS, WATER PIPES, DUCTS, ENTERING THE COMPUTER ROOM SHALL BE BONDED WITH #4 AWG GREEN GROUNDING BONDING JUMPER TO THE "SRG" AT EACH END OF THE ROOM IF THESE ARE HORIZONTAL.



1 SECOND FLOOR GROUNDING PLAN

E-414 REF. SCALE: 1/8" = 1'-0"

DWG: Q:\Caltrans\IETMC\500 CAD\E\Sheet\E-414.dwg User: DoviesC
DATE: Oct 27, 2008 - 7:34:13 am Images:
Xrefs: "XBDR" "xIETMC-AFP02" "xIETMC-EGN02" "xIETMC-SGRID" "xIETMC-EQP02" "xIETMC_S-BLDG-Independent_rvt-1-xAFP02" "IETMC_S-BLDG-ECM02"

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CONSULTANT

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STATUS

JULY 30, 2008

ISSUE

MARK	DATE	DESCRIPTION
5	10/27/2008	BID PERIOD ADDENDUM #5

PROJECT NO: 60004333.4000

DRAWN BY: L. DICKENS
CHECKED BY: C. DAVIES

STAMP

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Exp. 12-31-09
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
CYRILL DAVIES
No. E 17631
Exp. 09-30-09
ELECTRICAL
STATE OF CALIFORNIA

SHEET TITLE

SECOND FLOOR GROUNDING PLAN

E-414

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