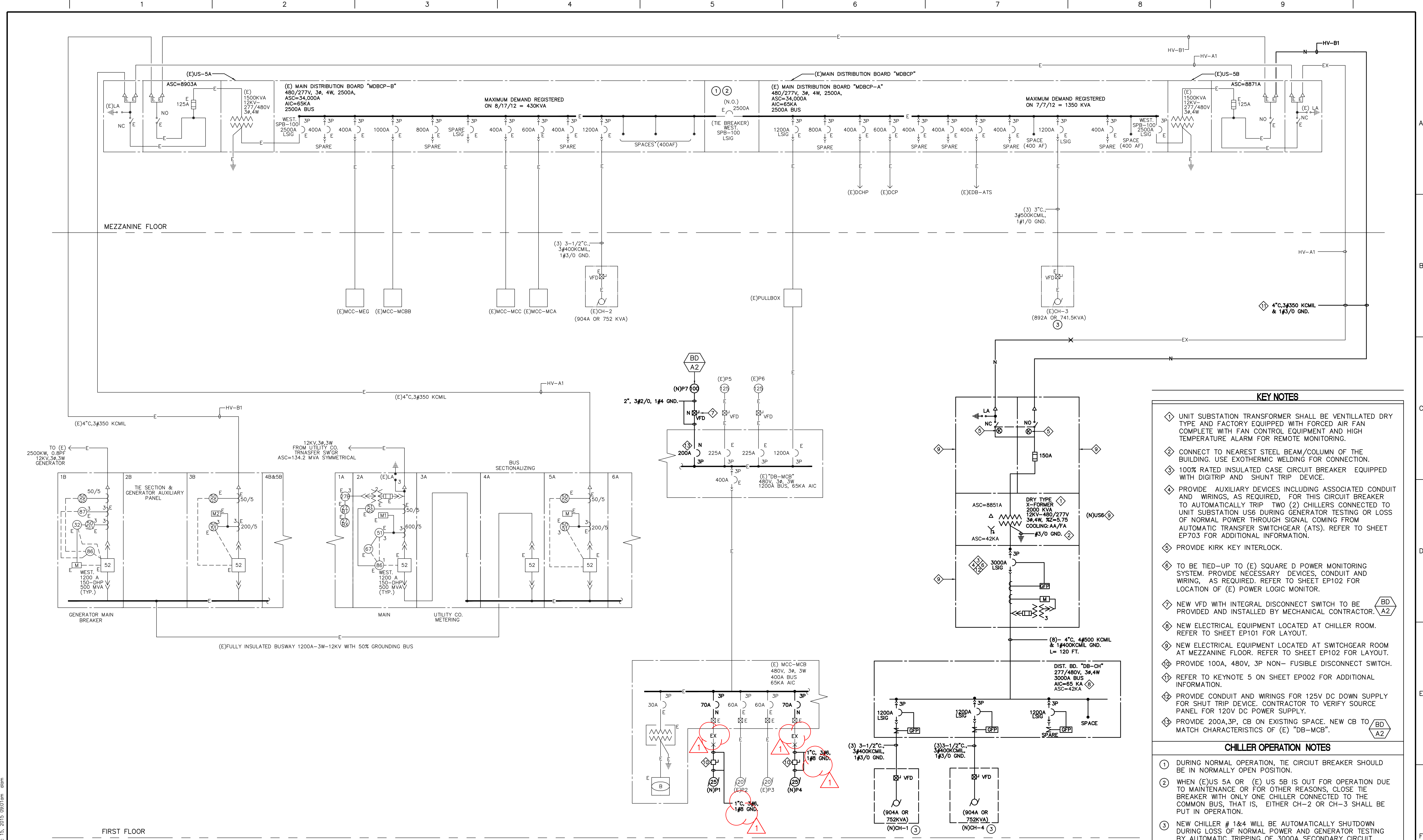


three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one sixteenth inch = one foot



NOTES FOR BID DEDUCTS

- BD A1 BID DEDUCTIVE ALTERNATE 1 SPECIFIED IN SPECIFICATION SECTION 010000.
- BD A2 BID DEDUCTIVE ALTERNATE 2 SPECIFIED IN SPECIFICATION SECTION 010000

SINGLE LINE DIAGRAM - REMODEL

NOT TO SCALE 1

- KEY NOTES**
- UNIT SUBSTATION TRANSFORMER SHALL BE VENTILATED DRY TYPE AND FACTORY EQUIPPED WITH FORCED AIR FAN COMPLETE WITH FAN CONTROL EQUIPMENT AND HIGH TEMPERATURE ALARM FOR REMOTE MONITORING.
 - CONNECT TO NEAREST STEEL BEAM/COLUMN OF THE BUILDING. USE EXOTHERMIC WELDING FOR CONNECTION.
 - 100% RATED INSULATED CASE CIRCUIT BREAKER EQUIPPED WITH DIGITRIP AND SHUNT TRIP DEVICE.
 - PROVIDE AUXILIARY DEVICES INCLUDING ASSOCIATED CONDUIT AND WIRINGS, AS REQUIRED, FOR THIS CIRCUIT BREAKER TO AUTOMATICALLY TRIP TWO (2) CHILLERS CONNECTED TO UNIT SUBSTATION US6 DURING GENERATOR TESTING OR LOSS OF NORMAL POWER THROUGH SIGNAL COMING FROM AUTOMATIC TRANSFER SWITCHGEAR (ATS). REFER TO SHEET EP703 FOR ADDITIONAL INFORMATION.
 - PROVIDE KIRK KEY INTERLOCK.
 - TO BE TIED-UP TO (E) SQUARE D POWER MONITORING SYSTEM. PROVIDE NECESSARY DEVICES, CONDUIT AND WIRING, AS REQUIRED. REFER TO SHEET EP102 FOR LOCATION OF (E) POWER LOGIC MONITOR.
 - NEW VFD WITH INTEGRAL DISCONNECT SWITCH TO BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. (BD A2)
 - NEW ELECTRICAL EQUIPMENT LOCATED AT CHILLER ROOM. REFER TO SHEET EP101 FOR LAYOUT.
 - NEW ELECTRICAL EQUIPMENT LOCATED AT SWITCHGEAR ROOM AT MEZZANINE FLOOR. REFER TO SHEET EP102 FOR LAYOUT.
 - PROVIDE 100A, 480V, 3P NON-FUSIBLE DISCONNECT SWITCH.
 - REFER TO KEYNOTE 5 ON SHEET EP002 FOR ADDITIONAL INFORMATION.
 - PROVIDE CONDUIT AND WIRINGS FOR 125V DC DOWN SUPPLY FOR SHUT TRIP DEVICE. CONTRACTOR TO VERIFY SOURCE PANEL FOR 120V DC POWER SUPPLY.
 - PROVIDE 200A, 3P, CB ON EXISTING SPACE. NEW CB TO MATCH CHARACTERISTICS OF (E) "DB-MCB". (BD A2)
- CHILLER OPERATION NOTES**
- DURING NORMAL OPERATION, TIE CIRCUIT BREAKER SHOULD BE IN NORMALLY OPEN POSITION.
 - WHEN (E)US 5A OR (E)US 5B IS OUT FOR OPERATION DUE TO MAINTENANCE OR FOR OTHER REASONS, CLOSE TIE BREAKER WITH ONLY ONE CHILLER CONNECTED TO THE COMMON BUS, THAT IS, EITHER CH-2 OR CH-3 SHALL BE PUT IN OPERATION.
 - NEW CHILLER # 1&4 WILL BE AUTOMATICALLY SHUTDOWN DURING LOSS OF NORMAL POWER AND GENERATOR TESTING BY AUTOMATIC TRIPPING OF 3000A SECONDARY CIRCUIT BREAKER OF (N)US6. WHEN NORMAL POWER IS RESTORED, 3000A CIRCUIT BREAKER WILL BE MANUALLY CLOSED TO MANUALLY START THE 2 CHILLERS.

CONSTRUCTION DOCUMENT

REPLACE WIRING FOR P1 & P4	12/15/15	OWNER:	 DEPARTMENT OF VETERANS AFFAIRS NETWORK CONTRACTING OFFICE 22 4811 AIRPORT PLAZA DRIVE, SUITE 600 LONG BEACH, CA 90815		ENGINEERS/CONSULTANTS:  Schwab Engineering & Management A Certified SB/DVBE Firm 1000 E. Walnut Street, Suite 227, Pasadena, CA 91106 t: 888.900.3823 f: 626.463.2739 www.schwabeng.com Project No.: 0313.177.00	Drawing Title SINGLE LINE DIAGRAM - REMODEL	Project Title JERRY L. PETTIS MEMORIAL VA LOMA LINDA HEALTHCARE SYSTEM UPGRADE CHILLER #1 AND #4	Project Number 605-14-375	Office of Construction and Facilities Management
Approved Project Director		Location 1201 BENTON STREET, LOMA LINDA, CALIFORNIA 92357	Drawing Number EP003	Date 08-27-2014	Checked M.B.	Drawn N.H.	Dwg. of -		