AUG 23 (WITHOUT RCPS)

NOTES

1. CIRCUIT BREAKER (DA-CB2) SUPPLYING ATS#3 HAS THE LINE FEED AT THE BOTTOM. [BREAKER HAS LIVE BUS WHEN OFF].
2. CIRCUIT BREAKER (DB-CB1) SUPPLYING ATS#4 HAS THE LINE FEED AT THE BOTTOM. [BREAKER HAS LIVE BUS WHEN OFF].
3. CIRCUIT BREAKER (CLB-1) IS RACK-OUT. DO NOT USED. ABANDON CONDUCTORS ARE CONNECTED UNTIL THEY CAN BE REMOVED.
4. UPS BATTERIES CIRCUIT BREAKERS AND SYSTEM BYPASS MODULE (SBM) BREAKERS ARE CONTROL AUTOMATICALLY BY THE UPS AND SBM TO SUPPLY AC POWER TO THE CRITICAL LOAD (CLB-1, CLB-2 AND CLB-3).
5. SYMBOL USED TO SHOW THE (3) THREE ELECTRICAL SERVICES FROM AUSTIN ENERGY INTO THE BUILDING PLUS THE SOLAR POWER SYSTEM SERVICE. THESE SYSTEMS FEEDERS/CIRCUITS CAN NOT BE MIXED BETWEEN SYSTEMS.
6. GENERATOR #4 IS CONNECTED TO SWITCHGEAR #PSSG MAIN BUS. GENERATORS SHALL BE TURNED OFF, BREAKER OPEN AND LOCK-OUT AND GROUNDED BEFORE WORKING ON SWITCHGEAR #PSSG OR GENERATOR #4 SWITCHBOARD.
7. UPS BATTERIES CIRCUIT BREAKERS AND SYSTEM BYPASS MODULE (SBM) BREAKERS ARE CONTROL AUTOMATICALLY BY THE UPS AND SBM TO SUPPLY AC POWER TO THE CRITICAL LOAD (LOSS AND LOSS).

SERVICES:

- ELECTRICAL SERVICE #1
- ELECTRICAL SERVICE #2A
- ELECTRICAL SERVICE #2B
- ELECTRICAL SERVICE #2C
- ELECTRICAL SERVICE #3
- ELECTRICAL SERVICE #3A
- ELECTRICAL SERVICE #4

ELECTRICAL SERVICE #1 SUPPLIED FROM 1000KVA TRANSFORMER TO SERVICE (MVSB) IN ROOM 169.

ELECTRICAL SERVICE #2A SUPPLIED FROM (3) 2000KVA TRANSFORMER TO SERVICE (MDSB) IN ROOM 161.

ELECTRICAL SERVICE #2B SUPPLIED FROM (3) 2000KVA TRANSFORMER TO SERVICE (MUCPS) IN ROOM 161.

ELECTRICAL SERVICE #2C SUPPLIED FROM (4) GENERATORS (GEN #1, #2, #3 AND #4) TO SERVICE (PSSD) IN ROOM 160B.

ELECTRICAL SERVICE #3 SUPPLIED FROM (2) 2500KVA TRANSFORMERS TO SERVICE (GPSG#1) IN ROOM 161.

ELECTRICAL SERVICE #3A SUPPLIED FROM (2) 2500KVA GENERATORS (GEN #5 AND #6) TO SERVICE (GPSG#1) IN ROOM 161.

ELECTRICAL SERVICE #4 SUPPLIED FROM SOLAR MODULES TO SERVICE (ANNEX MAIN SWITCHBOARD) IN ROOM 169.

SYMBOLS:

- KVMRS
- FUSIBLE SWITCH
- EXISTING CIRCUIT CONDUCTORS OR BUS
- EXISTING NON-FUSIBLE SWITCH
- CIRCUIT BREAKER
- NODE – CIRCUIT LINES CONNECTED
- CIRCUIT LINES CROSSING
- BATTERY STRING
- GENSET
- DIGITAL CUSTOMER METERING WITH REMOTE COMMUNICATIONS FEATURE
- CURRENT AND POTENTIAL TRANSFORMERS AND METERING CONNECTIONS
- DRAW-OUT ELECTRICALLY OPERATED CIRCUIT BREAKER
- DRAW-OUT CIRCUIT BREAKER
- AUTOMATIC TRANSFER SWITCH
- AUTOMATIC TRANSFER SWITCH WITH NON-LOAD BREAK MANUAL BY-PASS SWITCH AND OVERLAPPING NEUTRAL

AUSTIN ENERGY

AUSTIN ENERGY ATO SWITCH

ATO SWITCH #2

BURLESON #5 12.5kV — BURLESON #2 12.5kV

3P OPT's — OUTLET #4 — OUTLET #3 — OUTLET #2 — OUTLET #1

12.5kV / 2500 KVA / 480V XFER #9 — #7 — #6 — #5

LOAD BANK

SOLAR POWER

SOLAR DISCONNECT (EXTERIOR GROUND LEVEL) — 400A SWITCH

SOLAR DISCONNECT (INTERIOR) — 2500A BUS

"ANNEX MAIN SWITCHBOARD" (ANSB) (NW 169)

260KW INVERTER — SOLAR MODULES — SOLAR PANEL MODULES (ROOF)

NORMAL AND SOLAR POWER

AUSTIN ENERGY (1) TRANSFORMER 1500 KVA PAD MOUNTED IN ALLEY — 12.5kV / 480V

BURLESON FEEDER #3 — BURLESON FEEDER #2

AUSTIN ENERGY VAULT ROOM 162

2000 KVA XFER 12.5kV / 480V (x3)

AUSTIN ENERGY POWER BUS FUSE 3000 AMP

AUSTIN ENERGY CRITICAL POWER BUS FUSE 3000 AMP

MAIN UTILITY CRITICAL POWER SWITCH (MUCPS) 3000 AMP ROOM 161

GEN-1 500KW (NW 160B) — GEN-2 500KW (NW 160B) — GEN-3 500KW (NW 160B) — GEN-4 1000KW (CATERPILLAR)

"MDSB" (NW 161) — 4000A BUS

"MUCPS" (NW 160B) — 4800A BUS

"SSMC" (NW 160B) — 4000A BUS DUCT — 4000A BUS — GROUND FAULT ALARM

"MSB" (NW 160) — 3000A BUS DUCT — CABLE TAP BOX — 4 SETS 3" C — 4 #750MCM, #600MCM G

"PBCCM" (NW 160B)

UPS MODULE B AND STANDBY GENERATOR POWER

NORMAL POWER

EMERGENCY POWER AND NORMAL POWER

UPS MODULE A AND EMERGENCY POWER

REVISED: 23-AUG-16