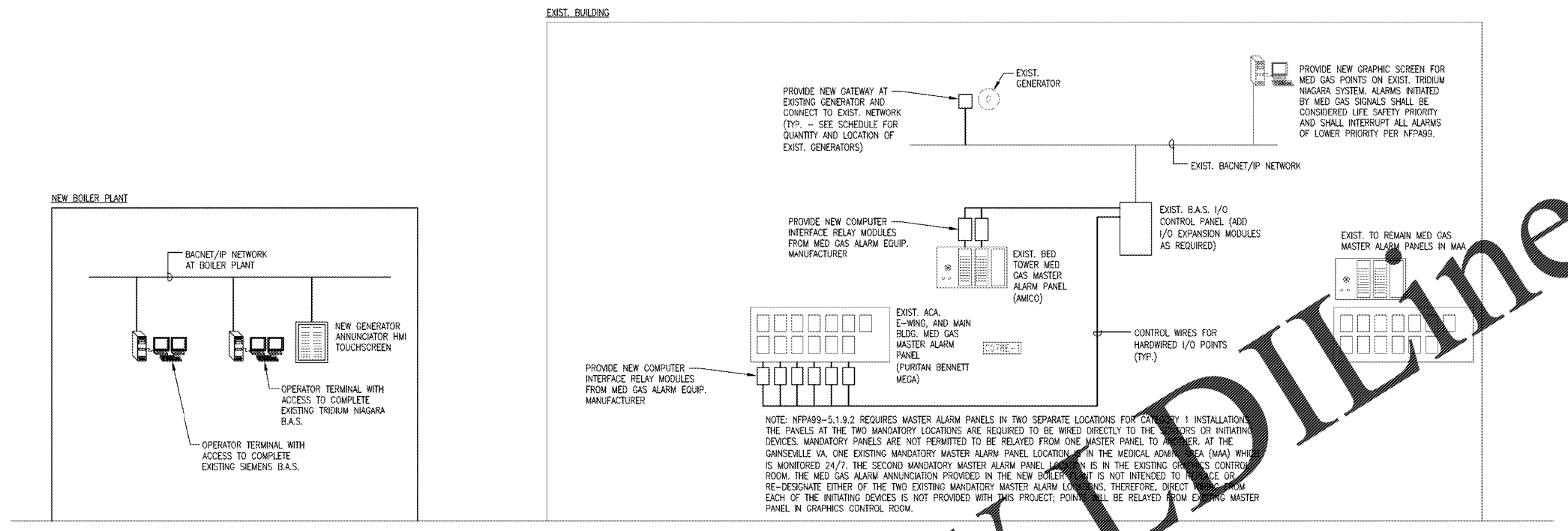


SHEET NOTES

- A. ALL LOW VOLTAGE SIGNAL CONDUCTORS SHALL MAINTAIN SPACING FROM POWER CONDUITS AS NOTED SPECS.
- B. REFER TO SHEET ET101 FOR GENERATOR LOCATION



NOTE: NFPA99-5.1.9.2 REQUIRES MASTER ALARM PANELS IN TWO SEPARATE LOCATIONS FOR CATEGORY 1 INSTALLATION. THE PANELS AT THE TWO MANDATORY LOCATIONS ARE REQUIRED TO BE WIRED DIRECTLY TO THE DEVICES OR INITIATING DEVICES. MANDATORY PANELS ARE NOT PERMITTED TO BE RELAYED FROM ONE MASTER PANEL TO ANOTHER. AT THE GAINESVILLE VA, ONE EXISTING MANDATORY MASTER ALARM PANEL LOCATION IS IN THE MEDICAL ADMIN AREA (MAA) WHICH IS MONITORED 24/7. THE SECOND MANDATORY MASTER ALARM PANEL LOCATION IS IN THE EXISTING GRAPHICS CONTROL ROOM. THE MED GAS ALARM ANNUNCIATION PROVIDED IN THE NEW BOILER PLANT IS NOT INTENDED TO REPLACE OR RE-DESIGNATE EITHER OF THE TWO EXISTING MANDATORY MASTER ALARM LOCATIONS. THEREFORE, DIRECT CONNECTION FROM EACH OF THE INITIATING DEVICES IS NOT PROVIDED WITH THIS PROJECT; POINTS WILL BE RELAYED FROM EXISTING MASTER PANEL IN GRAPHICS CONTROL ROOM.

MED GAS AND GENERATOR ANNUNCIATION MIRRORING
SCALE: N.T.S.

EXISTING GENERATOR TO BE TIED INTO B.A.S. FOR ANNUNCIATION								
ID	DESCRIPTION	LOCATION	MODEL	SERIAL	MANUFACTURER	CONTROLLER	KW	GATEWAY BASIS OF DESIGN NETWORK CONNECTION
1	ACA GENERATOR 1	C084-1 (MECHANICAL BUILDING)	3508	23208921	CATERPILLAR	EMCP 4.2	600	MONICO J1939 GATEWAY OR EQUAL BOILER ROOM
2	ACA GENERATOR 2	C084-1 (MECHANICAL BUILDING)	3508	23208922	CATERPILLAR	EMCP 4.2	600	MONICO J1939 GATEWAY OR EQUAL BOILER ROOM
3	ACA GENERATOR 3	C084-1 (MECHANICAL BUILDING)	3508	23208923	CATERPILLAR	EMCP 4.2	600	MONICO J1939 GATEWAY OR EQUAL BOILER ROOM
4	ACA GENERATOR 4	C084-1 (MECHANICAL BUILDING)	C27 750S	CAT00C27LGD80611	CATERPILLAR	EMCP 4.2	600	MONICO J1939 GATEWAY OR EQUAL BOILER ROOM
5	BIG BERTHA	EXTERIOR ENCLOSURE NEAR SMOKE STACK (MAIN BUILDING)	3512B	2GN01263	CATERPILLAR	EMCP 6	1275	MONICO J1939 GATEWAY OR EQUAL BOILER ROOM
7	BED TOWER GENERATOR	BED TOWER GENERATOR BUILDING	DQCA-1080049	F100129804	CUMMINS	CUMMINS	600	MONICO J1939 GATEWAY OR EQUAL BED TOWER MAIN COMM ROOM
9	FULL POWER BACKUP 1	BUILDING 29	2250DQKH-6461	L070138768	CUMMINS	PCC 3201	2250	MONICO J1939 GATEWAY OR EQUAL BLDG 29 FIELD PANEL
10	FULL POWER BACKUP 2	BUILDING 29	2250DQKH-6461	L070138767	CUMMINS	PCC 3201	2250	MONICO J1939 GATEWAY OR EQUAL BLDG 29 FIELD PANEL
11	FULL POWER BACKUP 3	BUILDING 29	2250DQKH-6461	L070129316	CUMMINS	PCC 3201	2250	MONICO J1939 GATEWAY OR EQUAL BLDG 29 FIELD PANEL
12	FULL POWER BACKUP 4	BUILDING 29	2250DQKH-6461	L070129319	CUMMINS	PCC 3201	2250	MONICO J1939 GATEWAY OR EQUAL BLDG 29 FIELD PANEL
13	PARKING GARAGES 1&2 GENERATOR	NORTH EAST EXTERIOR GARAGE	D175	0000000002071	CATERPILLAR	EMCP 3.2	175	MONICO J1939 GATEWAY OR EQUAL BLDG 29 FIELD PANEL
14	MRI GENERATOR	EXTERIOR ENCLOSURE NEAR CAMPUS NORTH ENTRANCE	C27	MJE02983	CATERPILLAR	EMCP 3.3	750	MONICO J1939 GATEWAY OR EQUAL BLDG 29 FIELD PANEL
15	PARKING GARAGE 3 GENERATOR	SOUTH BUILDING EXTERIOR	D5GAC	H150859636	CUMMINS	PCC 1302	150	MONICO J1939 GATEWAY OR EQUAL BLDG 29 FIELD PANEL
16	CLC GENERATOR	GENERATOR BUILDING OFFICE OF CLC	275RE0ZD (411A10)	2011827	KOHLER	KOHLER	250	MONICO J1939 GATEWAY OR EQUAL CLC FIELD PANEL

MEDICAL GAS MASTER ALARM PANELS				
AREA MONITORED	MANUFACTURER OF EXISTING	MODEL NO.	NO OF POINTS CURRENTLY MONITORED	REQUIREMENTS FOR CONNECTING TO B.A.S. (BASIS OF DESIGN)
BED TOWER	AMICO CORPORATION	ALERT-2	12 OUT OF 20	(2) COMPUTER INTERFACE RELAY BOARDS EACH WITH 10 DRY CONTACTS (AMICO #AZP-COMP-10); HARDWIRE POINTS (24VDC INTO I/O POINTS OF NEAREST B.A.S. I/O PANEL)
ACA, MAIN & E-WING	PURITAN BENNETT	MEGA	TO BE CONFIRMED	PROVIDE COMPUTER INTERFACE RELAY MODULES (QUANTITY TO BE CONFIRMED WITH MANUFACTURER)

NOTES:
 1. EACH OF THE EXISTING GENERATORS LISTED ABOVE SHALL BE PROVIDED WITH A GATEWAY AT THE LOCATION OF THE GENERATOR. THE GATEWAY SHALL CONNECT TO THE GENERATOR OR CONTROLLER NETWORK AND TRANSLATE THE AVAILABLE ENGINE AND GENERATOR PARAMETERS TO BACNET/IP. EACH GATEWAY SHALL BE PROVIDED WITH A SEPARATE 24VDC POWER SUPPLY.
 2. PROVIDE 15" COLOR HMI TOUCH SCREEN AT NEW BOILER PLANT (CONTROL ROOM) FOR GENERATOR VISUAL ANNUNCIATION. INDICATION FUNCTIONS AND AUDIBLE ALARMS AS REQUIRED BY NFPA 110 SHALL BE PROVIDED VIA THE WITH INTEGRAL OR SEPARATELY MOUNTED AUDIBLE ALARM AND SILENCER BUTTON.
 3. CONTRACTOR SHALL VERIFY EXISTING GENERATOR CONTROLLERS AND PROVIDE COMPATIBLE GATEWAYS.

FINAL DESIGN
APPROVED FOR CONSTRUCTION

CONSULTANTS: Revisions: _____ Date: _____	ENGINEER-OF-RECORD CHAD J. FRANK P.E. NO. 73817 	ARCHITECT/ENGINEERS: AKEA INC. 3803 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 553-4437 ODA: FL #26693 AKEA Project No. 083-14	Drawing Title MED GAS AND GENERATOR DIAGRAM AND SCHEDULES	Project Title REPLACE BOILERS - FCA D, ENERGY AT THE MALCOM RANDALL VAMC	Project Number 573-14-600	Office of Construction and Facilities Management Department of Veterans Affairs
			Approved: Project Director	Location GAINESVILLE, FLORIDA	Drawing Number ET611 123 OF 127	

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