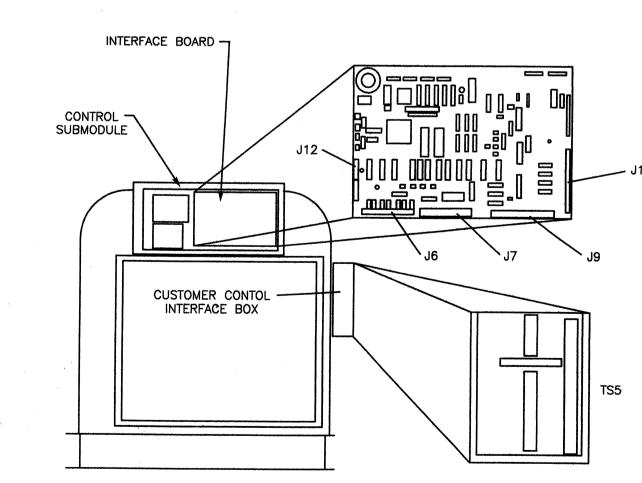


THE TECOGEN CAN START/STOP BOTH THE HEAT RECOVERY PUMP AND AN EXTERNAL VENTILATION FAN. POWER FROM AN OUTSIDE SOURCE MUST BE BROUGHT IN. IF POWER FOR BOTH DEVICES DOES NOT EXCEED 120 VAC, 15 AMPS, THEN THESE DEVICES CAN BE POWERED DIRECTLY FROM THE MODULE OUTPUTS. OTHERWISE THE OUTPUT TO ENERGIZE THE MOTOR STARTERS.

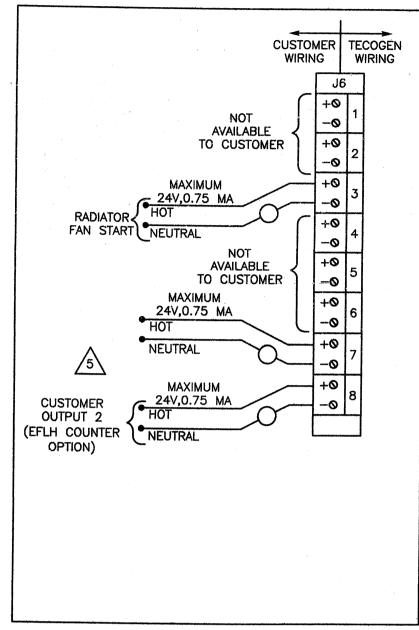
HEAT RECOVERY PUMP AND CAPACITORS ARE PRE-WIRIED ON INTEGRATED UNITS. PUMP IS 3/4 HP 11.2 FLA

FOR TECOGEN'S RECOMMENDED DESIGN FOR POWER FACTOR CORRECTION, SEE APPENDIX 2 OF INSTALLATION MANUAL. THIS EQUIPMENT IS BASED ON 120V

IF EXTERNAL PROTECTIVE RELAY IS USED.
THE JUMPER ACROSS TS16 AND TS17
SHOULD BE REMOVED.



INTERFACE BOARD



THIS IS AN OUTPUT THAT IS MANUALLY ENERGIZED BY THE CUSTOMER VIA WINRMCS.

EXTERNAL ALARM INPUT CONFIGURABLE BY DIPSWITCH FOR N.O. OR N.C. OPERATION.

INTERFACE BOARD ANALOG OUTPUT CONNECTOR

J12

CUSTOMER TECOGEN
WIRING
WIRING

POWER (0-100KW)
OUTPUT (0-100KW)
1MA MAX.
WATER RETURN 0-10VDC

TEMPERATURE (0-250°F)
OUTPUT 1MA MAX.

INTERFACE BOARD DIGITAL INPUT CONNECTOR CUSTOMER | TECOGEN WIRING WIRING 13.8VDC **ALTERNATIVE** 25MA DIGITAL POWER SETPOINT INPUT 13.8VDC EMS2 EXTERNAL 七 才 FLOW METER INPUT FOR OPTIONAL BTU METER COUNTER 2 COUNTER 3 COUNTER 4

CUSTOMER TECOGEN WIRING WIRING J9 CUSTOMER TEMPERATURE 1 (BTU METER OPTION: HOT WATER SUPPLY TEMPERATURE) CUSTOMER TEMPERATURE 2 (BTU METER OPTION: HOT WATER SUPPLY TEMPERATURE) CUSTOMER TEMPERATURE 3 CUSTOMER TEMPERATURE 4 TEMPERATURE SETPOINT INPUT (ACTIVE BY DIPSWITCH S1-5 IN 0-10VDC "ON" POSTION) TEMPERATURE SETPOINT INPUT (ACTIVE BY DIPSWITCH S1-5 IN 0-10VDC "ON" POSTION) CUSTOMER **VOLTAGE 1** CUSTOMER VOLTAGE 2

INTERFACE BOARD ANALOG INPUT CONNECTOR

THERMISTORS FOR THE OPTIONAL TEMPERATURES MUST BE OBTAINED FROM TECOGEN.

A 4-20 MA CIRCUIT MAY BE USED IN PLACE OF A 0-10VDC CIRCUIT BY SIMPLY INSTALLING A 501 OHM RESISTOR ACROSS THE TWO TERMINALS. THE 4 MA SIGNAL WILL BE INTERPRETED AS A 2VDC SIGNAL 20 MA AS 10VDC. THIS 4-20MA CIRCUIT MUST BE UNGROUNDED.

INTERFACE BOARD ANALOG INPUT CONNECTOR

JOHN TECOGEN WIRING

CUSTOMER TECOGEN WIRING

CUSTOMER TEMPERATURE 5

CUSTOMER TEMPERATURE 6

CUSTOMER TEMPERATURE 7

CUSTOMER TEMPERATURE 8

CUSTOMER TOPODC

CUSTOMER VOLTAGE 3

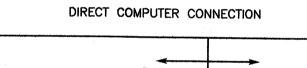
CUSTOMER VOLTAGE 4

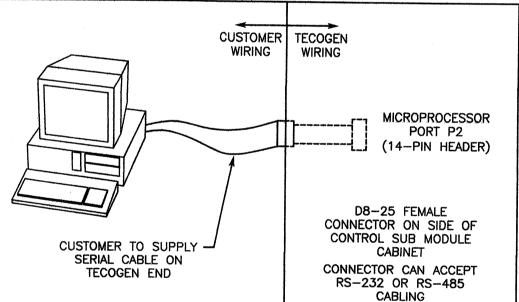
CUSTOMER O-10VDC

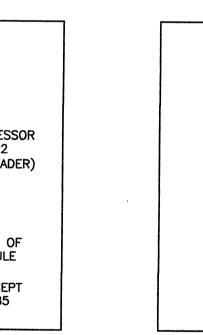
CUSTOMER VOLTAGE 6

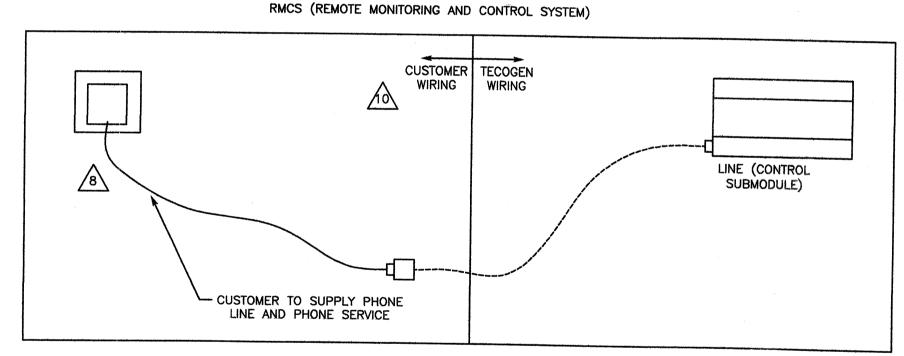
CUSTOMER O-10VDC

USE FOR RADIATOR INLET TEMPERATURE IF TRACKING THERMAL USAGE—SEE APPLICATION NOTE 02—002









FOR MULTIPLE UNIT INSTALLATIONS (UP TO 4) A TELEPHONE LINE SWITCH BOX IS AVAILABLE FROM TECOGEN SO THAT ONLY ONE PHONE SERVICE LINE IS NECESSARY

PHONE LINE PENETRATES CONTROL SUB MODULE CABINET SO CONNECTOR IS ACCESSIBLE.

CONSULTANT:

SALAMONE & ASSOCIATES, P.C.

CONSULTING ENGINEERS

3035 Whitney Avenue Hamden, Connecticut 06518 Phone: (203) 281-6895 Fax: (203) 287-8728

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NOTES:

PROJECT TITLE

CONTRACT DOCUMENTS FOR COGENERATION SYSTEM AT THE

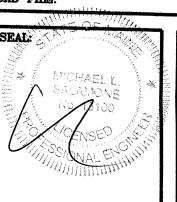
CUMBERLAND COUNTY
JAIL

50 COUNTY WAY. PORTLAND, MAINE

DRAWING TITLE

CUSTOMER INTERCONNECTION WIRING

JOB NUMBER	3151.01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	FB
DRAWN BY	ST
SCALE	AS NOTED
DATE	OCTOBER 31, 2012



E-4

DRAWING NO.