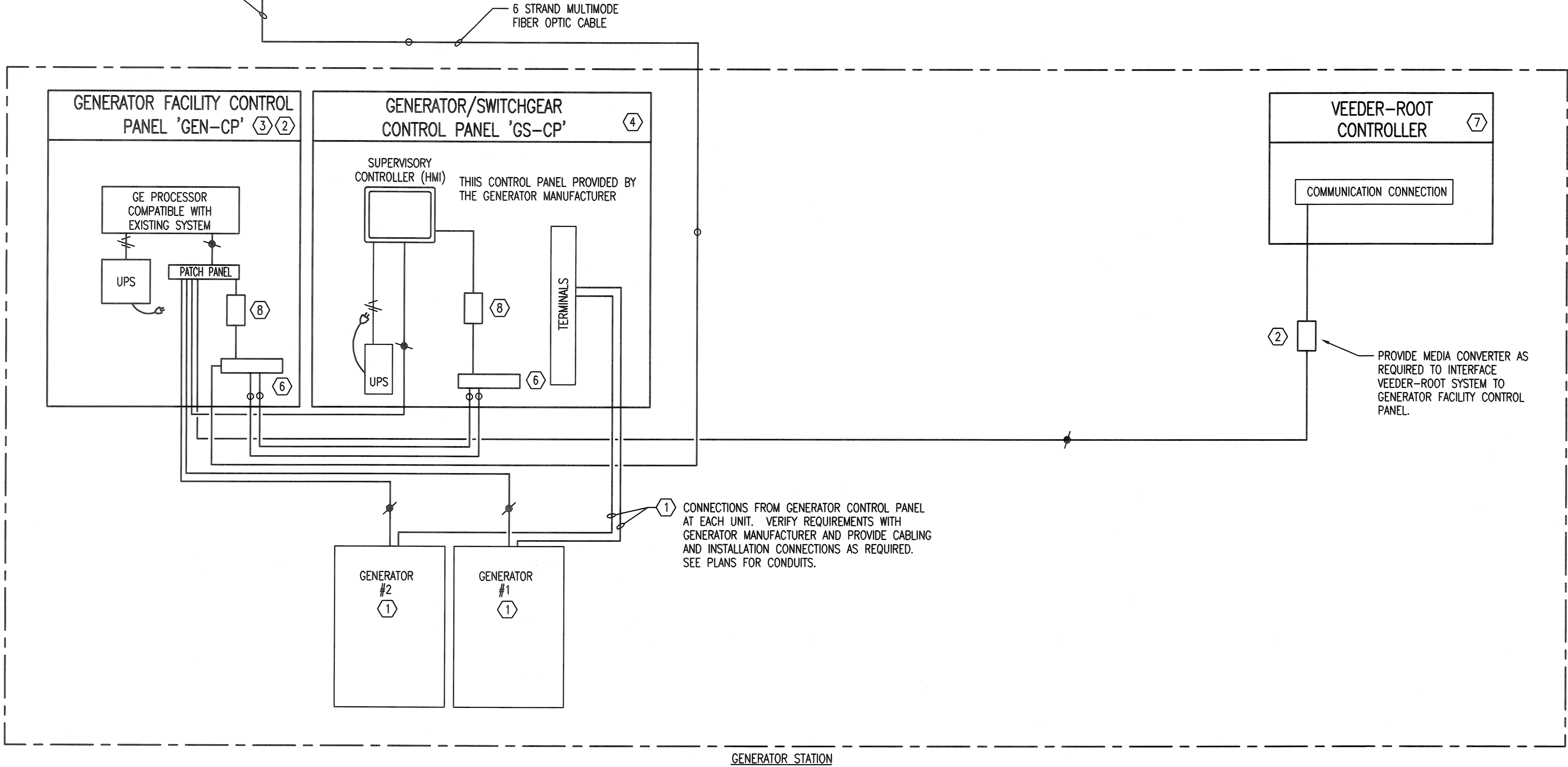


KEY NOTES:

- ① PROVIDE (AS A MINIMUM) THE FOLLOWING CABLES FROM EACH GENERATOR TO THE SWITCHGEAR CONTROLLER:
 1 - 2 CONDUCTOR #18 AWG TWISTED PAIR FOR ENGINE COMMUNICATIONS
 1 - 3 CONDUCTOR #18 AWG TWISTED TRIAD FOR SPEED CONTROL
 1 - 2 CONDUCTOR #18 AWG TWISTED PAIR FOR VOLTAGE CONTROL
 3 - #14 AWG FOR MANUAL VOLTAGE CONTROL
 4 - #10 AWG FOR 24VDC POWER
 16 - #14 AWG FOR DISCRETE SIGNAL TO ENGINE
 2 - #14 AWG FOR START WIRES
- ② BY SYSTEMS INTEGRATOR.
- ③ ALL CONTROL PANELS SHALL BE PROVIDED WITH AN ETHERNET PORT FOR CONNECTION OF A LAPTOP COMPUTER.
- ④ CONTROL PANEL PROVIDED BY GENERATOR EQUIPMENT SUPPLIER.
- ⑤ 20" FLAT PANEL LCD MONITOR
- ⑥ FIBER OPTIC PATCH PANEL.
- ⑦ PROVIDED BY FUEL TANK SUPPLIER.
- ⑧ PROVIDE ADDITIONAL EQUIPMENT AS REQUIRED TO CONNECT TO CITY OF WICHITA LAN/WAN.
- ⑨ COMPUTER PROVIDED, PROGRAMMED AND INSTALLED BY GENERATOR MANUFACTURER. SYSTEMS INTEGRATOR AND ELECTRICAL CONTRACTOR TO COORDINATE INSTALLATION LOCATION AND PROVIDE POWER AND COMMUNICATIONS CABLING TO THIS LOCATION.

INSTALL INNERDUCT IN EXISTING PATHWAY.
 INSTALL FIBER OPTIC CABLE IN THE INNERDUCT.
 FIELD VERIFY EXISTING PATHWAY ROUTING.



GENERATOR STATION

1 CONTROLS SCHEMATIC

NOT TO SCALE

Saved 02-20-2015 3:23:02 PM by CJV
 Plot Scale 1:1 02-24-2015 10:44:19 AM by CHRIS_VAIL
 U:\Wichita-Facility\2014\14229\001\Elec\Drawings\ED.14 CONTROLS SCHEMATIC

	Revision		By	Date
	CITY OF WICHITA, KANSAS			
	CONTROLS SCHEMATIC			
	WWTP #2 EMERGENCY POWER PROJECT C.O.W. PROJECT NO. 468-84956			
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com		
Designed by	RWW	Job No.	34-14229-001-0042	SH.EO.14 of 36
Drawn by	CJV	Date	2/23/15	