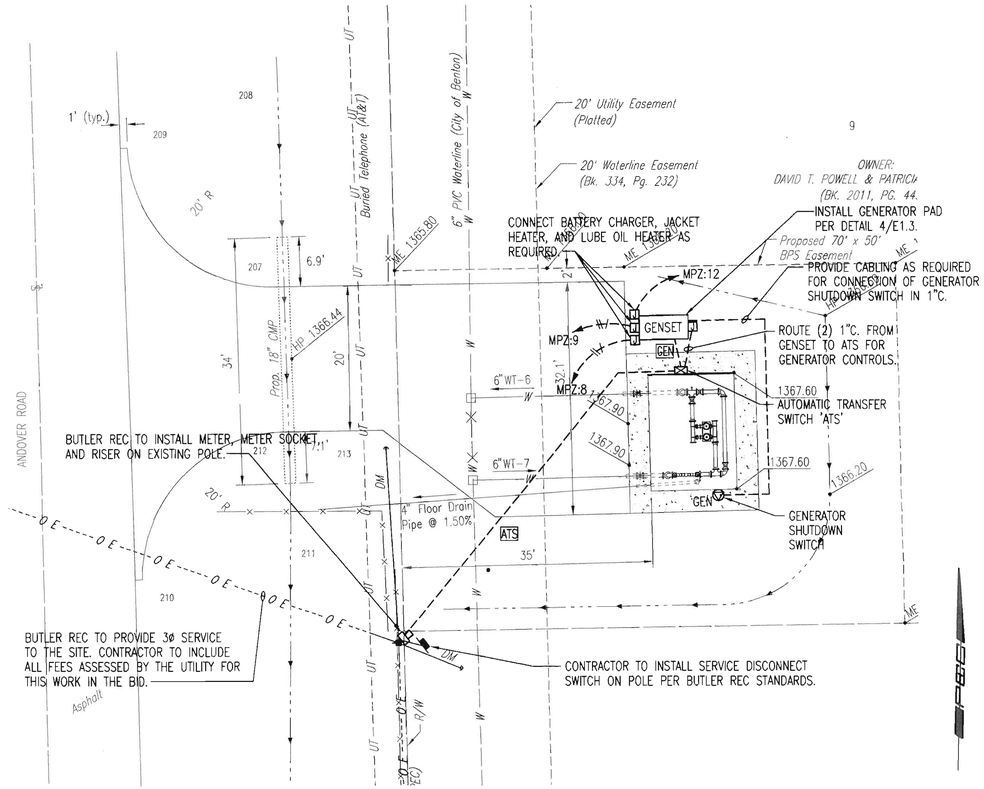
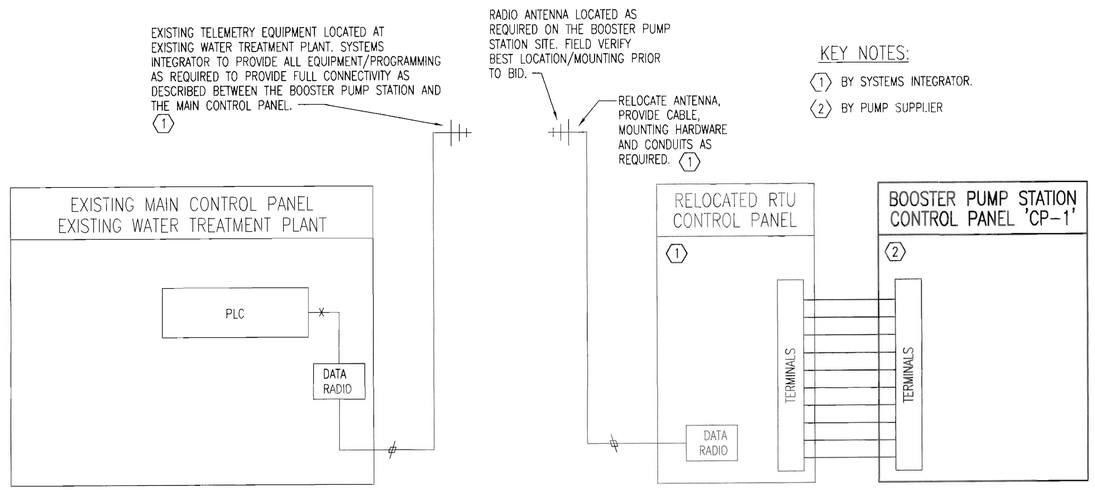


A ELECTRICAL SITE PLAN

SCALE: 1" = 10'-0"



1 CONTROLS SCHEMATIC

NO SCALE

GENERAL TELEMETRY NOTES:

1. THE TELEMETRY SYSTEM SHALL USE VHF RADIOS FOR COMMUNICATION BETWEEN EACH LOCATION SHOWN. THE SYSTEMS INTEGRATOR SHALL PERFORM A PATHWAY STUDY OF ALL LOCATIONS TO DETERMINE THE REQUIRED ANTENNA HEIGHTS FOR EACH LOCATION. THE SYSTEMS INTEGRATOR SHALL SUBMIT THE PATHWAY STUDY AND ANTENNA HEIGHTS FOR ALL LOCATIONS FOR APPROVAL PRIOR TO CONSTRUCTION. THE SYSTEMS INTEGRATOR SHALL PROVIDE CABLE, LIGHTNING ARRESTORS, ANTENNA, MOUNTING EQUIPMENT, PROGRAMMING, ETC. FOR THE LIFT STATION AND EXISTING WATER TREATMENT PLANT AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM. THE SYSTEMS INTEGRATOR SHALL ALSO PAY FOR ALL LICENSES AND FEES ASSOCIATED WITH THE RADIO TELEMETRY SYSTEM. THE SYSTEMS INTEGRATOR SHALL FIELD VERIFY POWER SOURCE AND INSTRUMENTATION LOCATION AT EACH LOCATION.
2. RTU IS TO BE REMOVED FROM EXISTING BOOSTER PUMP STATION AND RELOCATED TO THE NEW BOOSTER PUMP STATION.
3. LOCATE ANTENNA AS REQUIRED ON THE SITE. THE ANTENNAS SHALL BE MOUNTED AND CONSTRUCTED BY THE GENERAL CONTRACTOR WITH CONCRETE BASES AS RECOMMENDED BY THE ANTENNA MANUFACTURER. ADDITIONAL ANTENNA LOCATIONS MAY OR MAY NOT BE REQUIRED AS RADIO COMMUNICATION REPEATERS. GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, AND SYSTEMS INTEGRATOR SHALL COORDINATE. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ADDITIONAL ANTENNA LOCATIONS.
4. ALL RADIO ANTENNAS SHALL BE BONDED TO A 3/4" X 10' LONG GROUND DRIVEN AT THE ANTENNA BASE WITH #1/0 BARE COPPER WIRE. ALL CONNECTIONS SHALL BE EXOTHERMIC HYRAULIC OR COMPRESSION CONNECTIONS.

NICHOLAS S. MOORE LICENSED 21482 KANSAS PROFESSIONAL ENGINEER

No.	Revision	By	Date

CITY OF BENTON
BUTLER COUNTY, KANSAS

ELECTRICAL SITE PLAN/ CONTROLS SCHEMATIC

MAIN BOOSTER PUMP STATION

PEC
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

Designed by	NSM	Job No.	35-10093-1558
Drawn by	NSM	Date	September 2010

Sht. 17 of 18

Saved 06-27-2011 9:08:13 AM by NSM
Plot Scale 1:10 06-27-2011 9:08:16 AM by NSM
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