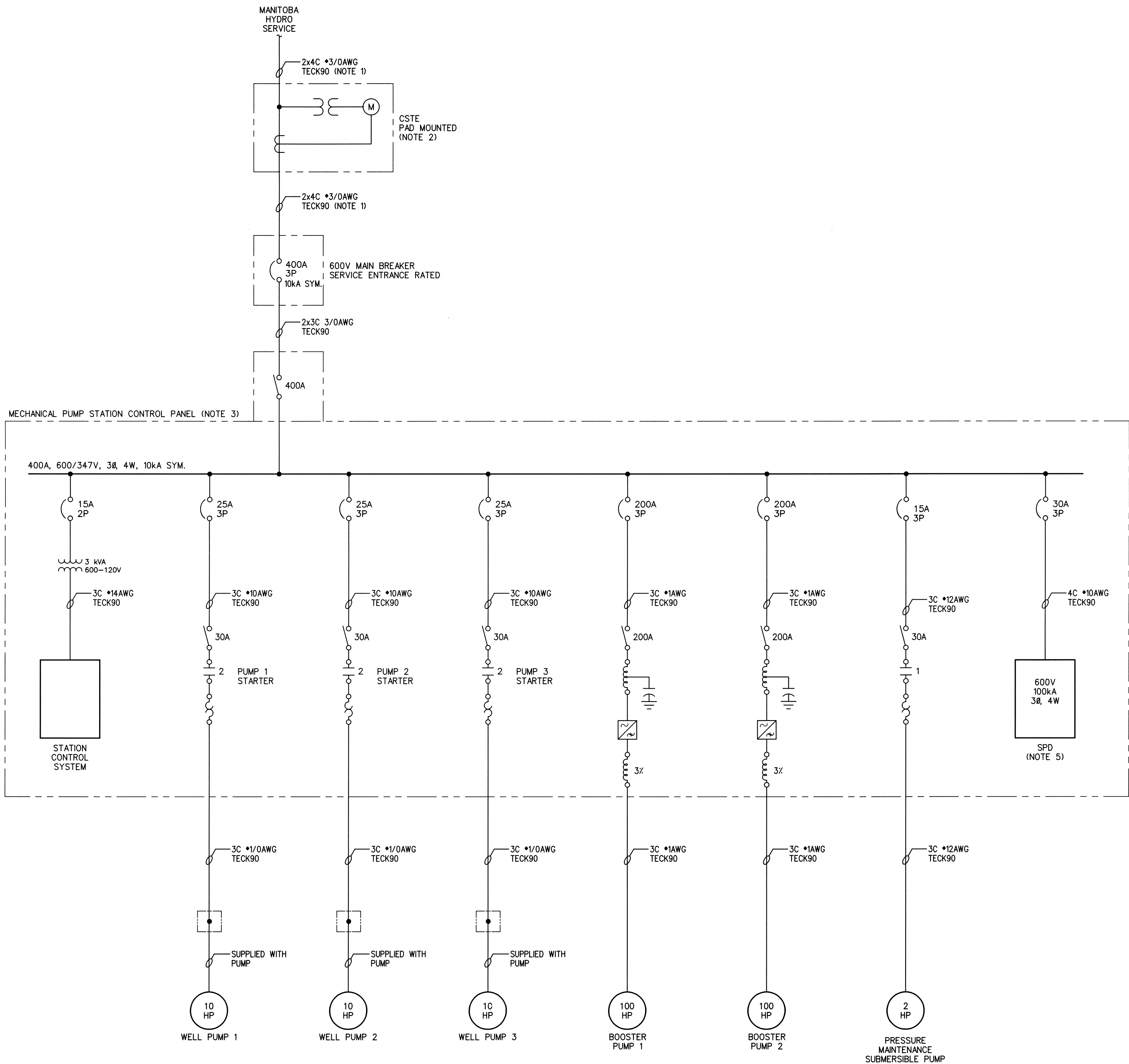
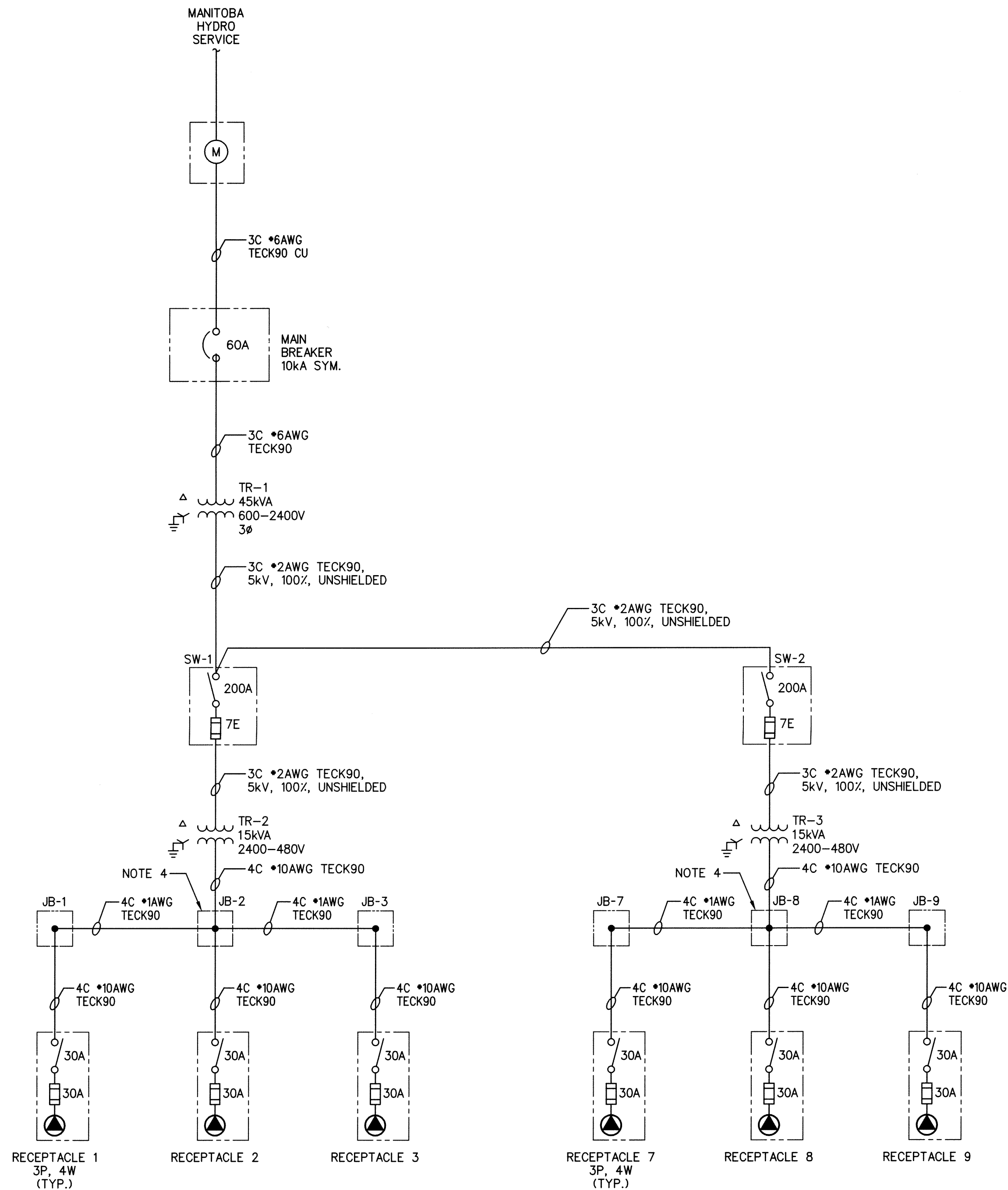


File Name: P:\Projects\2015\15-0006-008\DWG\Elec\15-0006-008-E04.dwg -- Tab: E04 Plotted By: dderoché 16/07/19 [Tue 9:45am]



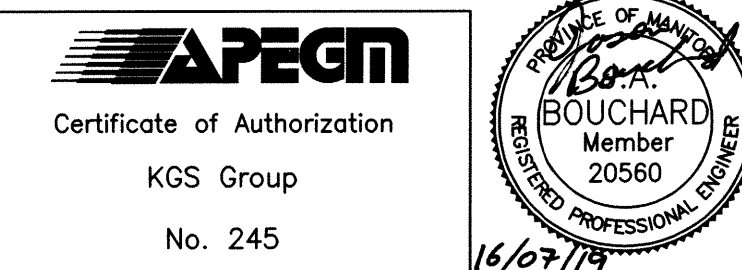
1 SINGLE LINE DIAGRAM – PUMPING SYSTEM
SCALE: N.T.S.



2 SINGLE LINE DIAGRAM – IRRIGATION SYSTEM
SCALE: N.T.S.

- NOTES:**
- CABLE PROVIDED BY MANITOBA HYDRO. COORDINATE ALL SERVICES WITH MANITOBA HYDRO.
 - CONTRACTOR TO PROVIDE CSTE AND ALL METERING FACILITIES TO SUIT MANITOBA HYDRO REQUIREMENTS. POWER METER AND ALL METERING TRANSFORMERS TO BE PROVIDED BY MANITOBA HYDRO.
 - MECHANICAL TO PROVIDE PUMP STATION CONTROL PANEL. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL SPECIFICATIONS FOR DETAILED REQUIREMENTS.
 - SIZE JUNCTION BOX TO ACCOMMODATE ADDITIONAL FUTURE 4C #4/0AWG TECK90 CABLE.
 - SPD SHALL BE CAPABLE OF PROVIDING PROTECTION FOR ALL THREE PHASES IN THE EVENT OF LINE TO LINE OR LINE TO NEUTRAL SURGES. ACCEPTABLE SPD INCLUDES TOTAL PROTECTION SOLUTIONS SERVICETRACK ST120.

- LEGEND**
- TRANSFORMER
 - BREAKER
 - REACTOR
 - HARMONIC FILTER
 - OVERLOAD
 - VARIABLE FREQUENCY DRIVE
 - DISCONNECT
 - FUSED DISCONNECT
 - RECEPTACLE
 - SPD SURGE PROTECTION DEVICE



KGS GROUP
CONSULTING ENGINEERS

Revision	Description	Date
0	ISSUED FOR TENDER	2016/07/19

Client: client

Project: Project

**BRANDON RESEARCH CENTRE
IRRIGATION SYSTEM**

Designed by KSW	Conçu par
Drawn by BGO	Dessiné par
Approved by JAB	Approuvé par
PWCSG Project Manager	Administrateur de Projets TPSCG

**ELECTRICAL
SINGLE LINE
DIAGRAMS**

Project no./No. du projet	Drawing no./No. du dessin	Revision no.
R.077363.002	E04 OF 7	0