



#3 – 1101 Main Street, Penticton, British Columbia, V2A 5E6 Canada, phone +1 (778) 476 5833 fax +1 (250) 412 5681

19 November 2016

**To:**

Joshua Ojierenem

Project Manager

By Email: [Joshua.Ojierenem@gov.yk.ca](mailto:Joshua.Ojierenem@gov.yk.ca)

**RE: Grum Pit Pump Schematic R1**

Dear Joshua,

While on site it was discovered that the Grum Pit pump was not code complaint due to a lack of ground fault monitoring. Through discussion with YGOV it was requested of StruthersTech to provide a schematic diagram showing how to wire a spare Startco relay and CT from the abandoned V15 shack into the Grum Pit pump panel.

We have attached the requested schematic diagram per the request.

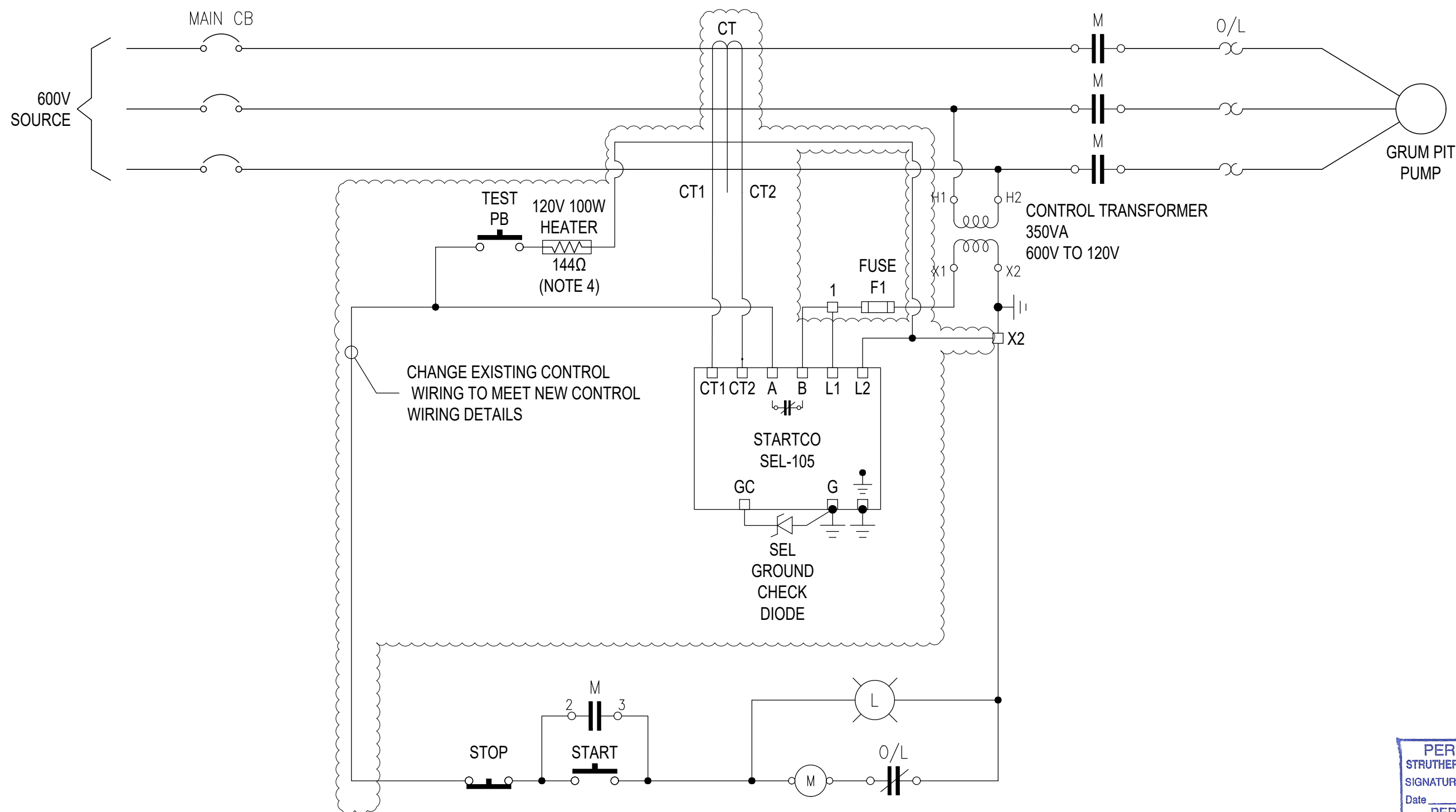
- The clouded control wiring and equipment are new to be installed.
- The test circuit with 100W heater and pushbutton is optional.
- 1c#14 can be used as control cable for the new additions.

Sincerely,

**Struthers Technical Solutions Ltd.**

A handwritten signature in black ink that reads "Jordan Krog". The signature is fluid and cursive.

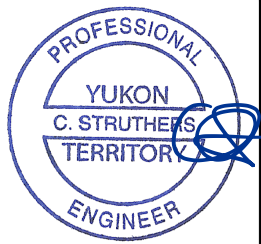
Jordan Krog, EIT



PERMIT TO PRACTICE  
 STRUTHERS TECHNICAL SOLUTIONS LTD.  
 SIGNATURE \_\_\_\_\_  
 Date 19 November 2016  
 PERMIT NUMBER PP482  
 Association of Professional  
 Engineers of Yukon

- NOTES:
1. SET SEL-105 TO UNDER VOLTAGE (UV) MODE AND A TRIP CURRENT OF 0.5A.
  2. NEW CONTROL WIRING AND EQUIPMENT ARE CLOUDED.
  3. SEL-105 AND CT CAN BE TAKEN FROM ABANDONED SHACK AT V15.
  4. GROUND FAULT TEST CIRCUIT WITH PB AND 120V 100W HEATER IS OPTIONAL.

REV.	DESCRIPTION	DRAWN	CHECKED	DESIGNED	DATE
0	GRUM PIT PUMP SCHEMATIC STARTCO RELAY	JCK	CS	JCK	17 NOV 16
REVISIONS					



DESIGN BY:  
**StruthersTECH**  
 #3 - 1101 Main Street, Penticon, BC, V2A 5E6  
 www.strutherstech.com

PROJECT TITLE: FARO MINE SITE			
TITLE: GRUM PIT PUMP SCHEMATIC DIAGRAM			
SCALE: N.T.S.	JOB NO.: 1650		
PROJECT 1650	DWG.No. E -GRUM PIT PUMP	SHT. 1	REV. 0

S:\Clients\Yukon Government\1650 Faro Mine Electrical Assessment\06 Drawings\STS Drawings\GRUM PIT PUMP RC.dwg PLOT DATE: 18 November 2016