



- NOTES**
1. INCOMING POWER THROUGH CT'S. SEE CT FASTENING DIAGRAM IN INSTRUCTION MANUAL FOR DETAILS.
 2. SOLID-STATE TIMER WITH PROGRAMMABLE ON-DELAY TIME RANGE SETABLE FROM 0.05 sec TO 300 HOURS ACCEPTABLE PRODUCT: OMRON PART No. H3CR-A8.
 3. MAXIMUM RAMP DOWN TIME SHALL BE 10 SECONDS AND THE VOLTAGE SHALL NOT BE ALLOWED TO RAMP BELOW 60% OF FULL VOLTAGE BEFORE SOFT START IS DEACTIVATED TO ALLOW PUMP MOTOR TO COME TO A COMPLETE STOP. VERIFY DECELERATION SETTINGS WITH PUMP MANUFACTURER.

- LEGEND**
- PC BOARD TERMINALS
 - ⊕ WIRE NODE SYMBOL MAY HAVE TERMINAL BLOCK
 - ⊙ POWER TERMINAL
 - ⊙ CUSTOMER TERMINAL
 - BENSRAW TERMINAL
 - ⊞ DEVICE TERMINAL
 - ⊞ ELAPSED TIME METER
 - ∞ TWISTED PAIR
 - FIELD WIRING
 - PANEL WIRING
 - ⇐ CONNECTOR
 - SHIELDED WIRE

***** IMPORTANT *****
 PASSCODE # _____

CUSTOMER TERMINALS
 □ L1 □ L2 □ L3
 □ T1 □ T2 □ T3

LOCATION APPROVED UNDERGROUND STRUCTURES ORIGINAL SIGNED BY DERRICK SAEDAL. SUPPLY U/G STRUCTURES COMMITTEE DATE _____

NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M. ELEV.	B.M. ELEV.	DESIGNED BY	DATE
		JLL	
		DRAWN BY	GCN
		CHECKED BY	ORIGINAL SIGNED BY R.E. WILLMS
		APPROVED BY	ORIGINAL SIGNED BY J.L. LALONDE
		HOR. SCALE	
		VERTICAL	
0	ISSUED FOR TENDER	25/03/09	JLL
NO.	REVISIONS	DATE	BY
		2009-03-18	

KGS GROUP CONSULTING ENGINEERS

RELEASED FOR CONSTRUCTION ORIGINAL SIGNED BY RANDY FINGAS DATE _____

ENGINEER'S SEAL
 PROVINCE OF MANITOBA
R. LALONDE
 Member 32345
 REGISTERED PROFESSIONAL ENGINEER

THE CITY OF WINNIPEG TRANSIT DEPARTMENT

SOUTHWEST RAPID TRANSIT CORRIDOR - STAGE 1
 LAND DRAINAGE PUMPING STATION & ASSOCIATED WORKS

ELECTRICAL FLOOD PUMP FP-1 SCHEMATIC/WIRING DIAGRAM

CITY DRAWING NUMBER LD-5318
 SHEET 19 OF 25
 CONSULTANT DRAWING NUMBER C2-B2202-T

CONSULTANT PROJECT NO. 08-0163-02

APEGM
 Certificate of Authorization
KGS Group
 No. 245 Date: 25/03/09