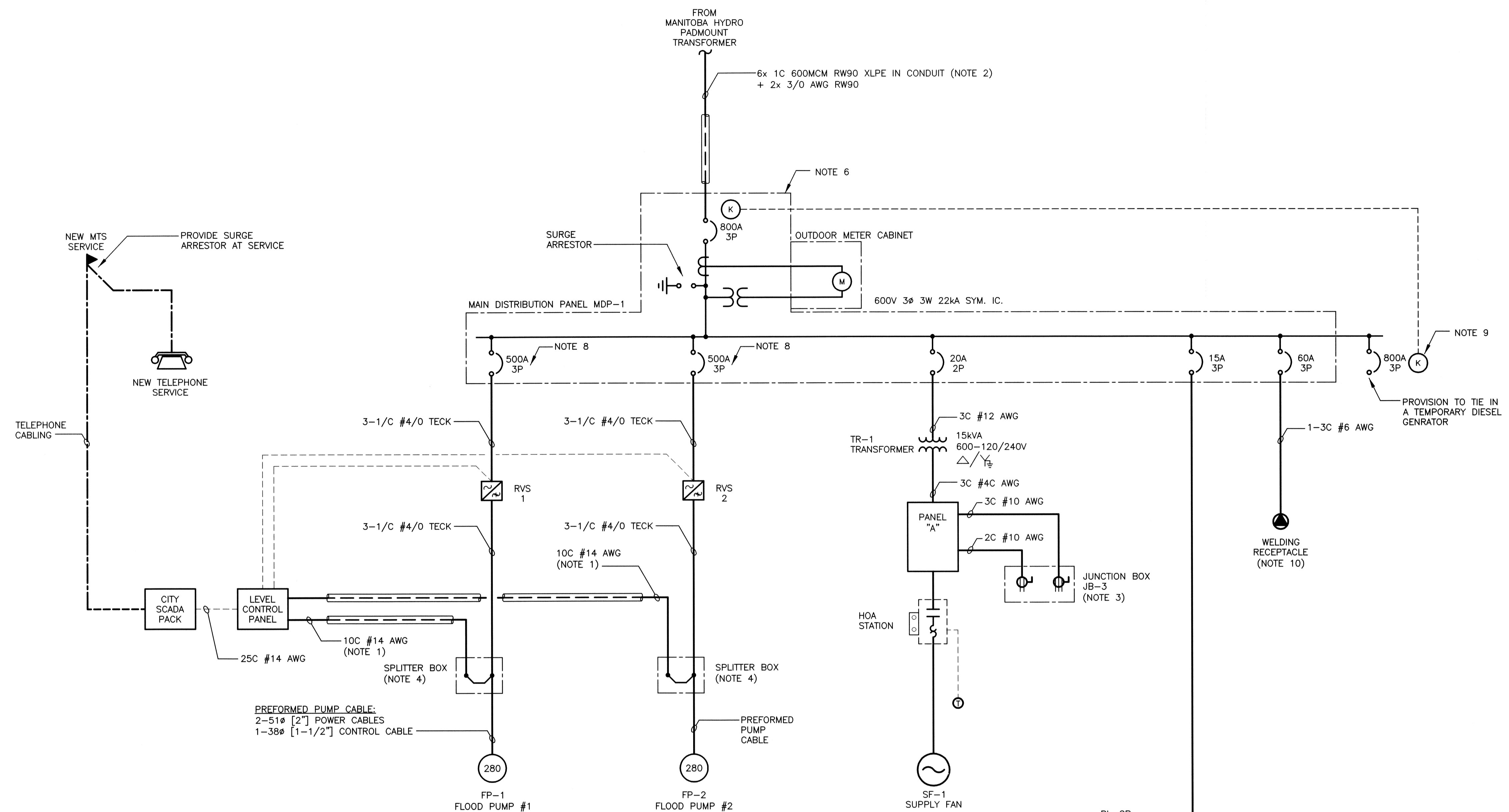
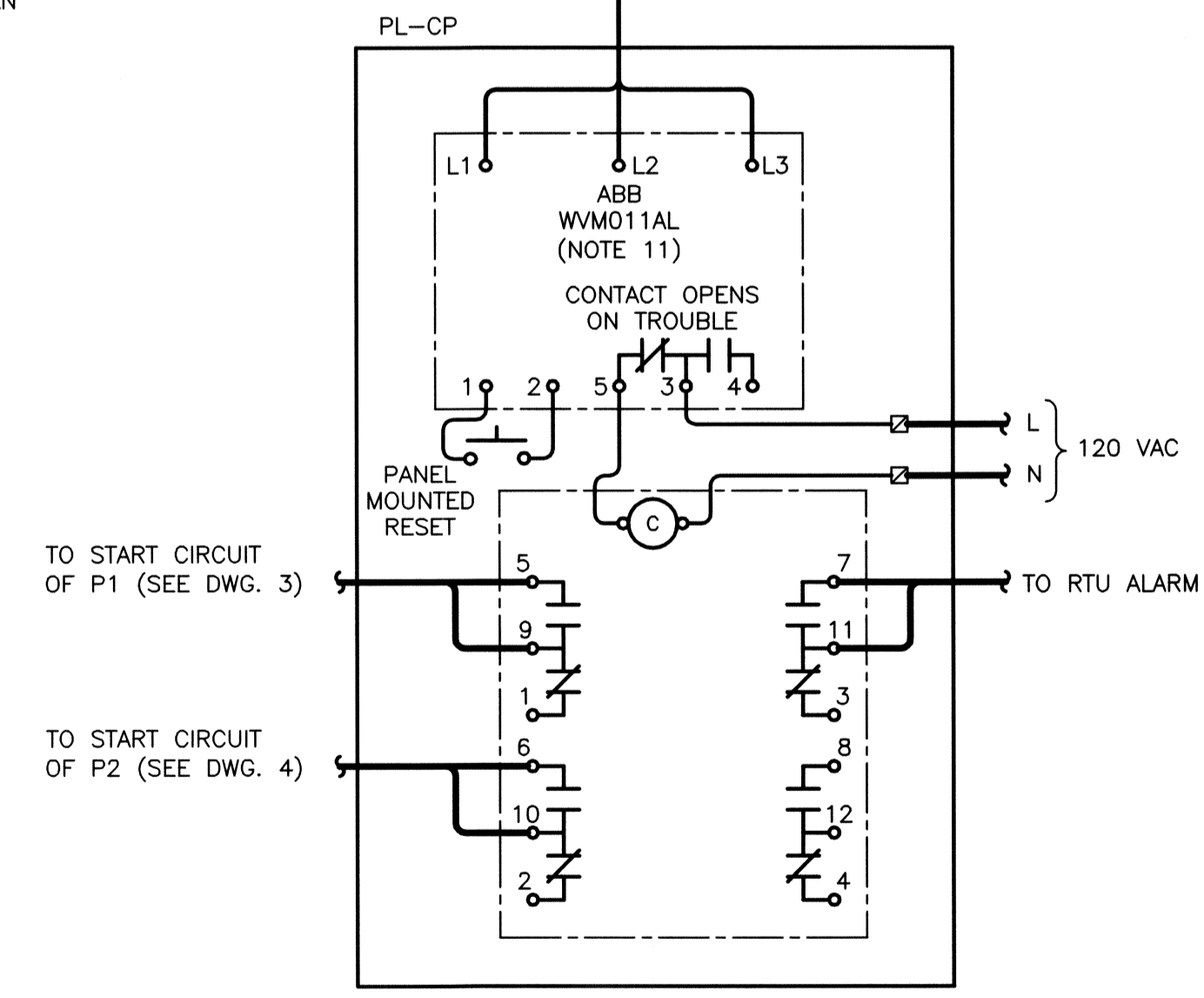


24"x36"/[609x914]
 P:\Projects\2005\05-0107-17\Elect\Draws\CC5-48aE-002c-01-00.dwg - Tab: E-002 - Jun 01, 2007 - 4:57pm - User:Name: Grltson



1 SINGLE LINE / INTERCONNECTION DIAGRAM
 SCALE: N.T.S



- LEGEND:**
- REDUCED VOLTAGE STARTER
 - BREAKER
 - METER
 - CURRENT TRANSFORMER
 - VOLTAGE TRANSFORMER
 - DISTRIBUTION TRANSFORMER
 - MOTOR LOAD

- NOTES:**
1. CONTROL CABLING SHALL BE RUN IN SEPARATE 3/8" [1-1/2"] CONDUIT.
 2. FEEDER SHALL BE IN ACCORDANCE WITH CEC DIAGRAM B-44 DETAIL 2.
 3. PROVIDE AN ELECTRICAL ENCLOSURE (JB-3) WITH 30A/120V/1P TWISTLOCK RECEPTACLE AND A 30A/240V/1P TWISTLOCK RECEPTACLE. ENCLOSURE SHALL HAVE AN INTERNAL PANEL WITH THE RECEPTACLES AND AN EXTERNAL DEAD-FRONT PANEL WHICH IS HINGED AND LOCKABLE. ENCLOSURE SHALL BE NEMA 4 RATED. RECEPTACLES ARE FOR THE HOOK-UP OF FUTURE PORTABLE EQUIPMENT SUCH AS SUMP PUMPS. INSTALL A BARRIER IN THE CONNECTION AREA BETWEEN THE 240V AND 120V WIRING.
 4. SPLITTER BOXES FOR THE CONNECTION TO THE PUMP POWER CABLES SHALL HAVE PROVISION FOR ROUTING CONTROL CABLES THROUGH THE SPLITTER. PROVIDE SUITABLE BARRIER.
 5. PROVIDE LOSS OF POWER ON ANY ONE PHASE AS SHOWN ON PANEL PL-CP.
 6. MAIN GROUND SHALL BE PROVIDED VIA GROUND RODS AND A CLAMP ON THE INCOMING WATER SUPPLY IF AVAILABLE. GROUND CONDUCTOR SHALL BE MINIMUM 3/0 AWG.
 7. ALTERNATELY, PVC CONDUIT MAY BE RUN UNDERGROUND AND CLIPPED TO STRUCTURE EVERY 18".
 8. CONFIRM BREAKER SIZE WITH REDUCED VOLTAGE STARTER (RVS) VENDOR.
 9. PROVIDE A NON-AUTOMATIC 800A BREAKER c/w KIRK KEY INTERLOCK WITH MAIN BREAKER FOR TIE-IN OF TEMPORARY DIESEL GENERATOR. KEY MUST BE REMOVED FROM MAIN BREAKER (ONLY WHEN MAIN BREAKER IS OPEN) AND PLACED IN DIESEL BREAKER BEFORE THIS BREAKER CAN BE CLOSED.
 10. CROUSE-HINDS 'AR 642' 60A, 3P, 4W WELDING RECEPTACLE - NO SUBSTITUTES.
 11. POWER MONITOR SETPOINTS AS FOLLOWS:
 UNBALANCE: 9%
 LINE VOLTAGE: 600V
 TRIP DELAY: 2 SEC
 RESTART DELAY: 10 SEC
 SELECTOR: AUTO RESTART WITH DELAY

NO.	DATE	REVISIONS	BY	CHKD.	APP.
00	05/04/07	Issued for Tender and Construction By City of Winnipeg	GCN	DDW	REW
0C	05/04/07	Issued for Review to City of Winnipeg	GCN	DDW	REW
0B	04/07/06	Issued with Contract C5 as Reference Only	GCN	AP	REW
0A	09/06/06	ISSUED FOR REVIEW, 90% COMPLETE	GCN	AP	REW

KGS GROUP

SUBCONSULTANT DWG. NO. _____

C. of A. **APEGM**
 Certificate of Authorization
KGS Group
 No. 245 Expiry: April 30, 2008

DESIGNED BY: AP DRAWN BY: GCN SCALE: AS NOTED
 CHECKED BY: REW APPROVED BY: REW DATE: MAY, 2006

KGS GROUP SUBMITTED BY: RICK CARSON

OWNER:
MANITOBA FLOODWAY AUTHORITY

PROJECT:
RED RIVER FLOODWAY EXPANSION

PHASE:
 MAIN CHANNEL CONTRACT No C5

TITLE:
**KILDARE LAND DRAINAGE FLOOD PUMPING STATION
 ELECTRICAL WORKS
 SINGLE LINE DIAGRAM**

MFA acceptance:
 DOUG McNEIL
 VICE PRESIDENT OF ENGINEERING AND CONSTRUCTION

OWNER DWG NO.: CC5-48aE-002c SHT. 01 REV. 00

CITY OF WINNIPEG IS RESPONSIBLE FOR MECHANICAL AND ELECTRICAL WORK
 MFA acceptance is limited to the Red River Floodway Expansion project only, and specifically excludes acceptance of any mechanical and electrical works indicated on this drawing, which are incorporated for the purpose of City of Winnipeg Bid Opportunity 238-2007

THE CITY OF WINNIPEG
WATER & WASTE DEPARTMENT

CAD FILE DRAWING NUMBER: CC5-48aE-002c-01-00.dwg CITY DRAWING NUMBER: _____