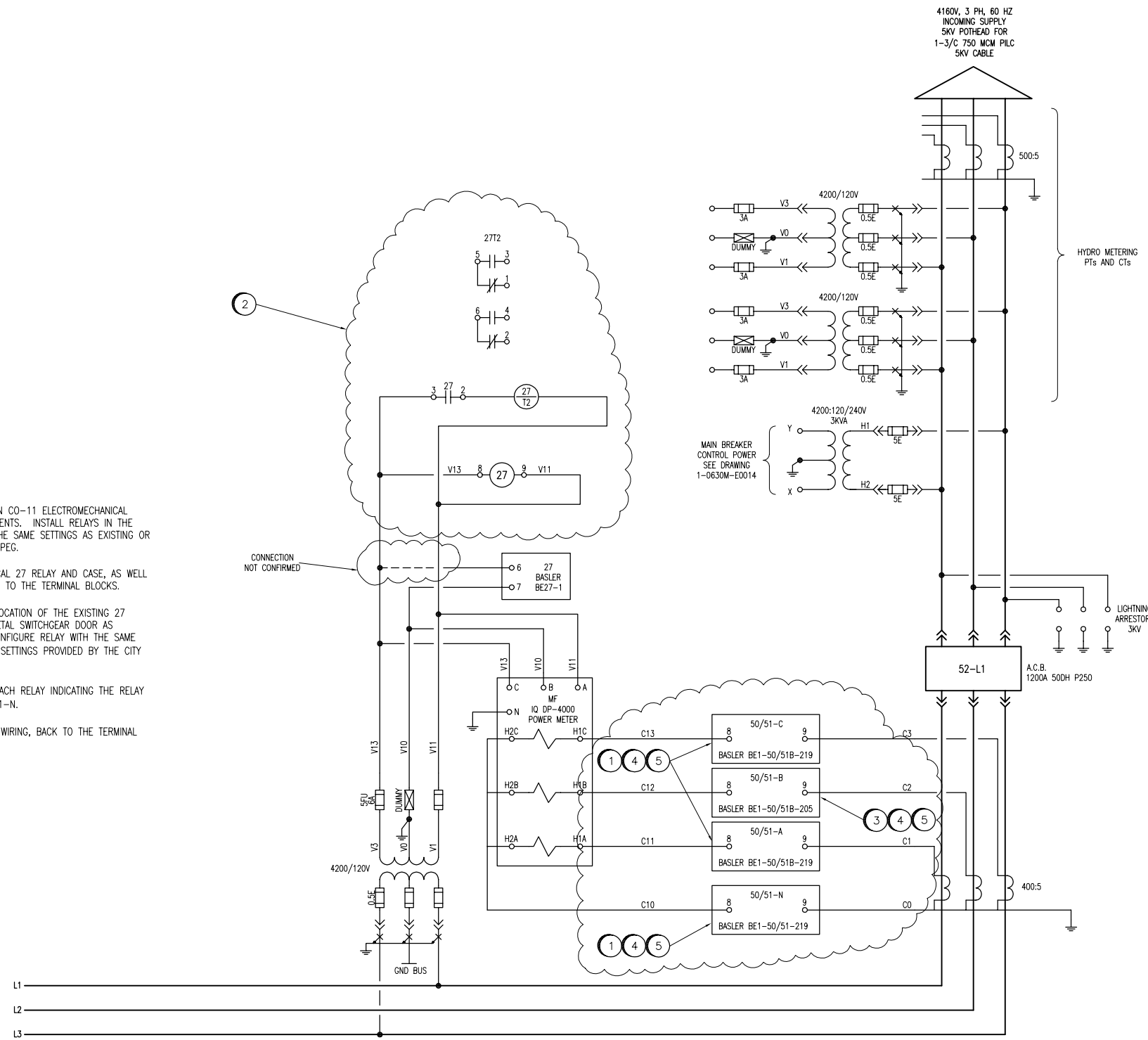


WORK REQUIRED

- 1 REPLACE EXISTING 50/51-A, 50/51-C AND 50/51-N CO-11 ELECTROMECHANICAL RELAYS WITH DIRECT PLUG-IN ELECTRONIC REPLACEMENTS. INSTALL RELAYS IN THE EXISTING CASES AND CONFIGURE THE RELAYS WITH THE SAME SETTINGS AS EXISTING OR WITH NEW SETTINGS PROVIDED BY THE CITY OF WINNIPEG.
- 2 DISCONNECT AND REMOVE EXISTING ELECTROMECHANICAL 27 RELAY AND CASE, AS WELL AS 27-T2 TIME DELAY RELAY. REMOVE WIRING BACK TO THE TERMINAL BLOCKS.
- 3 INSTALL NEW 50/51-B RELAY AND CASE INTO THE LOCATION OF THE EXISTING 27 ELECTROMECHANICAL RELAY CUTOUT. MODIFY THE METAL SWITCHGEAR DOOR AS REQUIRED TO ACCOMMODATE THE DIFFERENT SIZE. CONFIGURE RELAY WITH THE SAME SETTINGS AS 50/51-A AND 50/51-C OR WITH NEW SETTINGS PROVIDED BY THE CITY OF WINNIPEG. MODIFY AND LABEL WIRING AS SHOWN.
- 4 PROVIDE AND INSTALL A LAMACOID NAMEPLATE FOR EACH RELAY INDICATING THE RELAY IDENTIFIER 50/51-A, 50/51-B, 50/51-C AND 50/51-N.
- 5 INSTALL WIRE LABELS ON ALL NEW AND EXISTING CT WIRING, BACK TO THE TERMINAL BLOCKS.



NOTES:

1. THIS DRAWING SUPERCEDES PART OF THE ORIGINAL WESTINGHOUSE SHOP DRAWING 7390778.
2. THIS DRAWING IS BASED ON THE ORIGINAL SHOP DRAWING AND VISUAL INSPECTION. ALL EXISTING WIRING HAS NOT BEEN FIELD VERIFIED. DESIGN RESPONSIBILITY IS LIMITED TO THE MODIFICATIONS SHOWN.



NO.	ISSUED FOR TENDER	DATE	DESIGN	CHK
00	ISSUED FOR TENDER	2009/08/17	BKD	CJR
01	REVISIONS			

SNC-LAVALIN INC. 148 Hutterly Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY: B. KING	CHECKED BY: C. REIMER
DRAWN BY: B. KING	APPROVED BY: C. REIMER
SCALE: NTS	RELEASED FOR CONSTRUCTION BY: DATE: 2009/08/17
CONSULTANT NO.:	

ENGINEER'S SEAL
ORIGINAL DRAWING SEALED BY: B. D., KING
DATE: 2009/08/14 REV. 00

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT	
MACLEAN PUMPING STATION	
THREE LINE DIAGRAM 4160V MAIN BREAKER	
CITY DRAWING NUMBER 1-0630M-E0015	SHEET REV. SIZE 001 00 A1

D-2488	LOOP DIAGRAM - 4160 V POWER FAILURE
1-0630M-E0001	SINGLE LINE DIAGRAM
DRAWING NUMBER	REFERENCE DRAWINGS