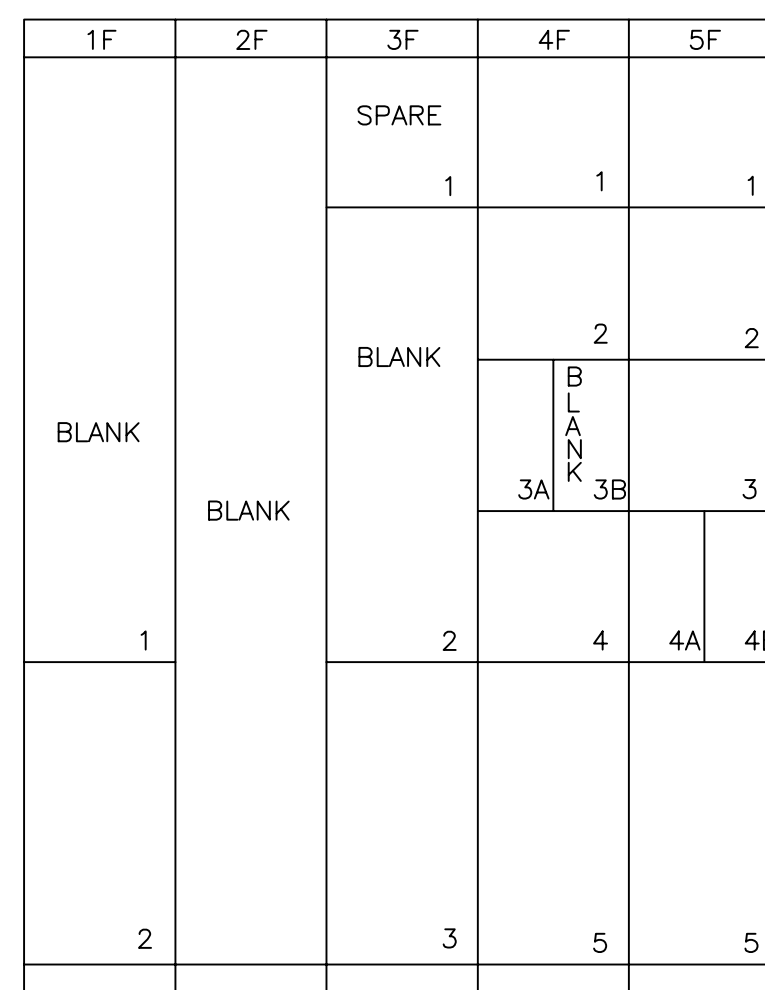


600 VOLT MOTOR CONTROL CENTER – MCC 2P

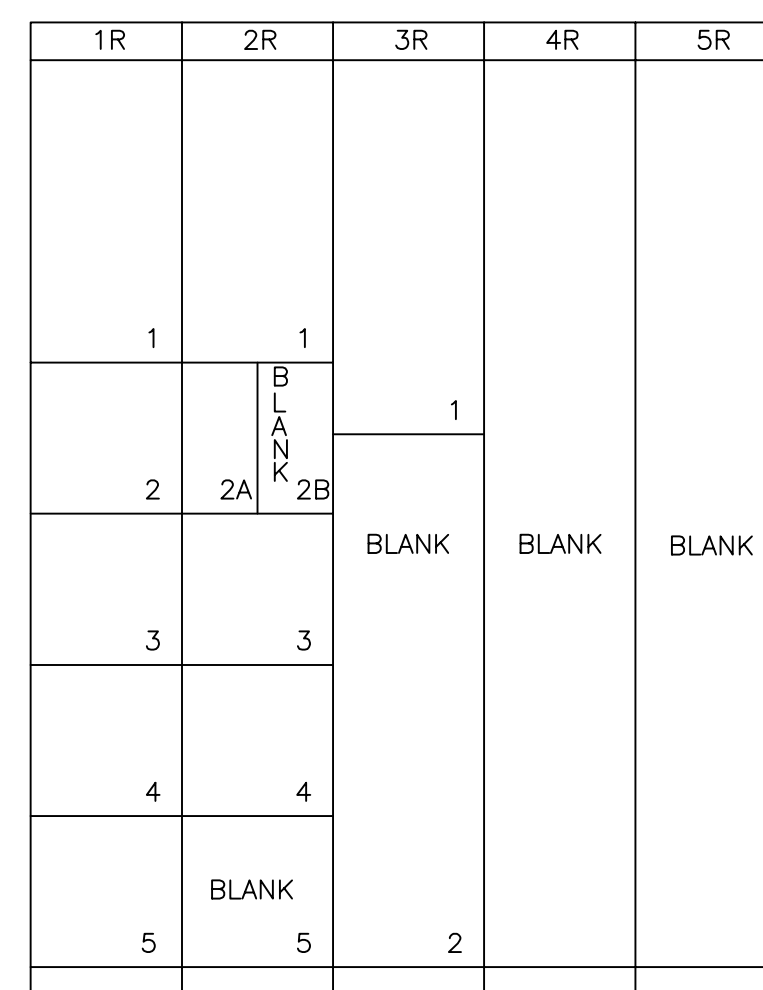
CONNECTED KW: 220  
DEMAND KW: 140

MCC NUMBER	EQUIP. NUMBER	MOTOR					STARTER		FEEDER			CIRCUIT PROTECTION		REMARKS
		DESCRIPTION	LOCATION	HP	KW	FULL LOAD AMPS	EEMAC SIZE	TYPE	CAP IN AMPS	SIZE	TYPE	CONT. RATING (AMPS)	FRAME SIZE	
5F-1	P106-STP	SLUDGE TRANSFER PUMP	ROOM P106	20	15	22	2	CMFVNR	30	#10	RW90	50	HMCP	EDDY CURRENT DRIVE
4F-1	P116-STP	SLUDGE TRANSFER PUMP	ROOM P124	20	15	22	2	CMFVNR	30	#10	RW90	50	HMCP	EDDY CURRENT DRIVE
5F-2	P202-SP	SCUM PUMP	ROOM P107	5	3.7	6.1	1	CMFVNR	20	#12	RW90	15	HMCP	
4F-2	P212-SP	SCUM PUMP	ROOM P124	5	3.7	6.1	1	CMFVNR	20	#12	RW90	15	HMCP	
3F-1		SPARE					1	CMFVNR				15	HMCP	
4F-3A	P302-BDM	TRAVELLING BRIDGE	ROOM P108	2.5	1.9	3.9	-	-	20	#12	RW90	20A-3P	HFD	BREAKER FOR MOTORS P302-BDM & P304-SC
4F-4	P102-SCC	SLUDGE THICKENER	ROOM P117	1	0.75	1.4	1	CMFVNR	20	#12	RW90	3	HMCP	
5F-3	P208-SCP	SCUM CIRCULATION PUMP	ROOM P107	5	3.7	6.1	1	CMFVNR	20	#12	RW90	15	HMCP	
2R-3	P672-HWP	HOT WATER PUMP	ROOM P106	1.5	1	2.1	1	CMFVNR	20	#12	RW90	7	HMCP	
3R-1	P632-EF32	EXHAUST FAN	ROOM P123	30	22.5	32	3	CMFVNR	85	#4	RW90	100	HMCP	2 SPEED FAN, UNDERVOLTAGE PROTECTED VIA DCS
1R-1	P636-EF36	EXHAUST FAN	ROOM P129	15	11.2	17	2	CMFVNR	30	#10	RW90	50	HMCP	2 SPEED FAN
2R-1	P638-EF38	EXHAUST FAN	ROOM P129	15	11.2	17	2	CMFVNR	30	#10	RW90	50	HMCP	2 SPEED FAN
1R-3	P662-CP	GLYCOL HEAT RECOVERY PUMP	ROOM P106	5	3.7	6.1	1	CMFVNR	20	#12	RW90	15	HMCP	
1R-2	P682-AHU	AIR HANDLING UNIT	ROOM P117	5	3.7	6.1	1	CMFVNR	20	#12	RW90	15	HMCP	
2R-2A	P634-AHU	AIR HANDLING UNIT	ROOM P134	20	15	22	-	-	45	#8	RW90	30A-3P	HFD	LOCAL STARTER
2R-4	P686-SF86	GALLERY EXHAUST FAN-GALLERY 4A	ROOM P124	0.5	0.38	0.8	1	CMFVNR	20	#12	RW90	3	HMCP	
1R-4	P668-ACU	CONTROL ROOM RECIRCULATION UNIT	ROOM P112	0.75	0.6	1.1	1	CMFVNR	20	#12	RW90	3	HMCP	
1R-5	P666-F66	ELECTRICAL ROOM AIR HANDLING UNIT	ROOM P112	0.5	0.38	0.8	1	CMFVNR	20	#12	RW90	3	HMCP	
5F-4A		WELDING RECEPTACLES (CLAR. 3)	ROOM P124/P127			50	-	-	65	#6	RW90	60A-3P	HFD	2 RECEPTACLES FROM 60A BREAKER
5F-4B		WELDING RECEPTACLES (CLAR. 3)	ROOM P130/P132			50	-	-	65	#6	RW90	60A-3P	HFD	
3F-3		CAPACITOR MCC 2P				20KVAR	-	-	30	#10	RW90	30A-3P	HFD	CAPACITOR C/W BREAKER
5F-5		CAPACITOR MCC 2P				10KVAR	-	-	20	#12	RW90	15A-3P	HFD	CAPACITOR C/W BREAKER
4F-5		CAPACITOR MCC 2P				10KVAR	-	-	20	#12	RW90	15A-3P	HFD	CAPACITOR C/W BREAKER
1F-2		MAIN LUGS												INCOMING CONDUCTORS

NOTE:  
1. SEE DETAIL IN O & M MANUAL



MCC 2P – FRONT ELEVATION



MCC 2P – REAR ELEVATION

CONSTRUCTION NOTES  
1. PROGRAM IQ DP-4130 UNIT ON MCC-2P AND CONNECT ITS DISCRETE ALARM CONTACT TO DCS.



SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, Manitoba Canada R3P 0X7				
DESIGNED BY: N. BRADDOO	APPROVED BY: C. REIMER	DATE: 2009/12/07		
CHECKED BY: C. REIMER				
PROJECT No. 112577	SUBDIV. 0105	SUBJECT 47 DD	SERIAL 0304	REV. 2

B.M. ELEV.			
2	ADDED UNDERVOLTAGE PROTECTION TO MCC-2P	12/09	NB
1	AS CONSTRUCTED	05/91	B.T.
0	ISSUED FOR TENDER	08/89	B.T.
-	ISSUED FOR APPROVAL	06/89	B.T.
NO.	REVISIONS	DATE	BY

MaCLAREN ENGINEERS INC. WARDROP ENGINEERING INC.	
ENGINEERING CONSULTANTS	
DESIGNED BY: W.L.	CHECKED BY:
DRAWN BY: S.R.	APPROVED BY:
HOR. SCALE: VERTICAL:	N.T.S.
RELEASED FOR CONSTRUCTION:	DATE
JANUARY 1989	

ORIGINAL DRAWING SEALED BY:  
N. BRADDOO  
SNC-LAVALIN  
2009/12/07  
REV. 02

CONSULTANT DRAWING NO.  
870012-01-16-E115

**THE CITY OF WINNIPEG**  
WORKS AND OPERATIONS DIVISION  
WATERWORKS, WASTE & DISPOSAL DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE  
PRIMARY CLARIFIER EXPANSION – ELECTRICAL  
MOTOR CONTROL CENTER 2P

CITY DRAWING NUMBER  
SHEET OF  
SEP-289