

600 VOLT MOTOR CONTROL CENTER – MCC 1P

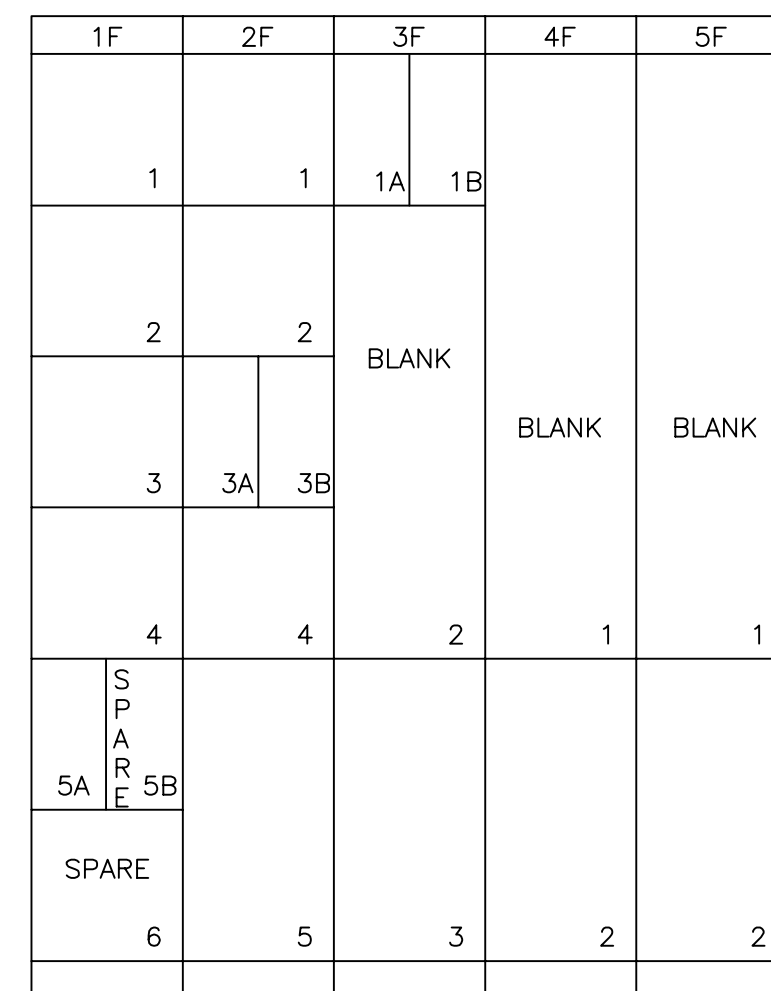
CONNECTED KW: 330
DEMAND KW: 275

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		
1F-1	P105-STP	SLUDGE TRANSFER PUMP	ROOM P106	20	15	22	2	CMFVNR	30	#10	RW90	50	HMCP	EDDY CURRENT DRIVE	
2F-1	P111-STP	SLUDGE TRANSFER PUMP	ROOM P124	20	15	22	2	CMFVNR	30	#10	RW90	50	HMCP	EDDY CURRENT DRIVE	
1F-2	P201-SP	SCUM PUMP	ROOM P107	5	3.7	6.1	1	CMFVNR	20	#12	RW90	15	HMCP		
2F-2	P211-SP	SCUM PUMP	ROOM P124	5	3.7	6.1	1	CMFVNR	20	#12	RW90	15	HMCP		
1F-6		SPARE					1	CMFVNR				15	MCP		
2F-3A	P301-BDM	TRAVELLING BRIDGE	ROOM P109	2.5	1.9	3.4	-	-	20	#12	RW90	15A-3P	HFD	BREAKER FOR MOTORS P301-BDM & P303-SC	
2F-3B	P311-BDM	TRAVELLING BRIDGE	ROOM P126	12	9	14.9	-	-	30	#10	RW90	30A-3P	HFD	BREAKER FOR MOTORS P311-BDM, P313-SC & P315-SC	
1F-3	P219-SCC	SCUM CROSS CONVEYER	ROOM P130	5	3.7	6.1	1	CMFVNR	20	#12	RW90	15	HMCP		
2F-4	P101-SCC	SLUDGE THICKENER	ROOM P117	1	0.75	1.4	1	CMFVNR	20	#12	RW90	3	HMCP		
1F-4	P217-SCP	SCUM RECIRCULATION PUMP	ROOM P124	5	3.7	6.1	1	CMFVNR	20	#12	RW90	15	HMCP		
1F-5A	P510-SG	MOTORIZED SLUICE GATE	ROOM P130	5	3.7	6.1	-	-	20	#12	RW90	15A-3P	HFD	LOCAL STARTER	
4R-5	P671-HWP	HOT WATER PUMP	ROOM P106	1.5	1	2.1	1	CMFVNR	20	#12	RW90	7	HMCP		
3R-2	P631-EF31	EXHAUST FAN	ROOM P123	30	22.5	32	3	CMFVNR	85	#4	RW90	100	HMCP	2 SPEED FAN, (UNDERVOLTAGE PROTECTED VIA DCS)	
3R-3	P633-EF33	EXHAUST FAN	ROOM P123	30	22.5	32	3	CMFVNR	85	#4	RW90	100	HMCP	2 SPEED FAN, (UNDERVOLTAGE PROTECTED VIA DCS)	
5R-1	P637-EF37	EXHAUST FAN	ROOM P129	15	11.2	17	2	CMFVNR	30	#10	RW90	50	HMCP	2 SPEED FAN	
4R-4	P663-GP	GLYCOL HEAT RECOVERY PUMP	ROOM P127	5	3.7	6.1	1	CMFVNR	20	#12	RW90	15	HMCP		
5R-2	P681-AHU	AIR HANDLING UNIT (CLAR. 1 & 2)	ROOM P117	5	3.7	6.1	1	CMFVNR	20	#12	RW90	15	HMCP		
4R-3	P685-SF85	GALLERY EXHAUST FAN-GALLERY 5A	ROOM P127	1	0.75	1.4	1	CMFVNR	20	#12	RW90	3	HMCP		
4R-6	P687-SF87	GALLERY EXHAUST FAN-GALLERY 5	ROOM P110	0.75	0.6	1.1	1	CMFVNR	20	#12	RW90	3	HMCP		
5R-4	P667-F67	CONTROL ROOM PRESSURIZATION UNIT	ROOM P112	0.75	0.6	1.1	1	CMFVNR	20	#12	RW90	3	HMCP		
5R-3B	P669-ACU	CONTROL ROOM AIR CONDITIONER	ROOFTOP		5		-	-	20	#12	RW90	15A-3P	HFD	LOCAL STARTER	
5R-3A	P665-ACU	ELECTRICAL ROOM AIR CONDITIONER	ROOFTOP		5		-	-	20	#12	RW90	15A-3P	HFD		
3R-1A		600-600/347 TRANSFORMER BREAKER	ROOM P102		45KVA		-	-	65	#6	RW90	60A-3P	HFD		
3R-1B		600-208/120 TRANSFORMER BREAKER	ROOM P102		45KVA		-	-	65	#6	RW90	60A-3P	HFD		
4R-2	P107-CP	DEGREASING PUMP	ROOM P124	1.5		1.7	1	CMFVNR	20	#12	RW90	15	HMCP		
3F-1A		WELDING RECEPTACLES (CLAR. 1 & 2)	ROOM P118		50		-	-	65	#6	RW90	60A-3P	HFD	TWO RECEPTACLES FROM 60A BREAKER	
3F-1B		WELDING RECEPTACLES (CLAR. 1 & 2)	ROOM P107		50		-	-	65	#6	RW90	60A-3P	HFD	TWO RECEPTACLES FROM 60A BREAKER	
3F-3		CAPACITOR MCC 1P			20KVAR		-	-	30	#10	RW90	30A-3P	HFD	CAPACITOR C/W BREAKER	
2F-5		CAPACITOR MCC 1P			10KVAR		-	-	20	#12	RW90	15A-3P	HFD	CAPACITOR C/W BREAKER	
4F-2		CAPACITOR MCC 1P			10KVAR		-	-	20	#12	RW90	15A-3P	HFD	CAPACITOR C/W BREAKER	
5F-2		MAIN LUGS												INCOMING CONDUCTORS	

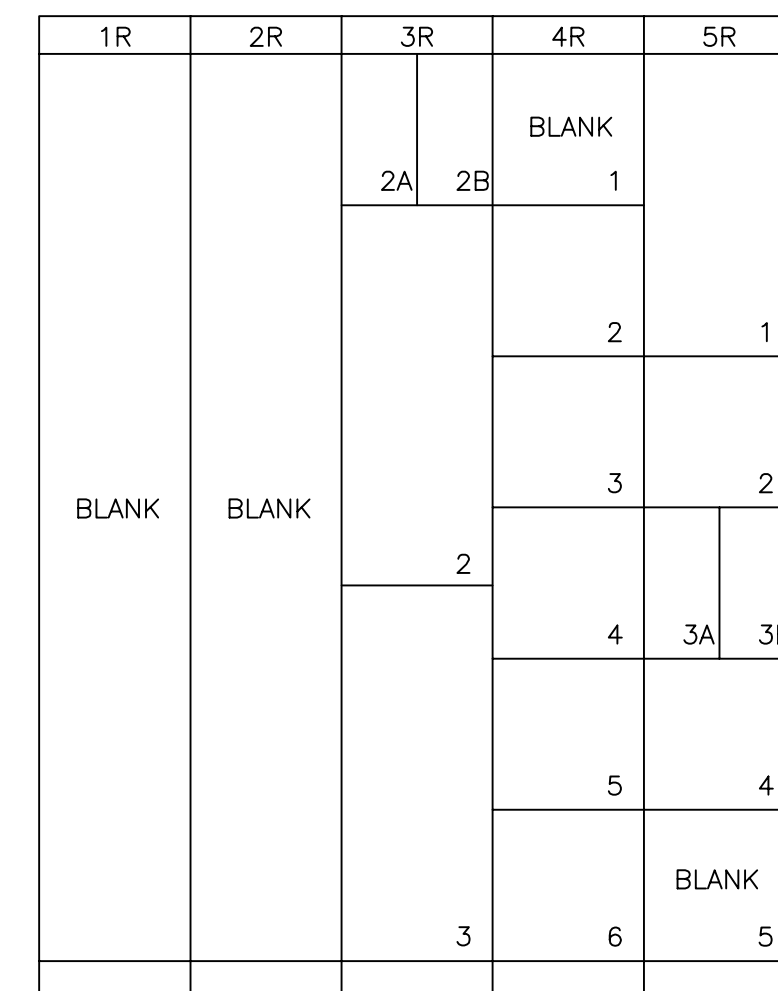
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NOTE:

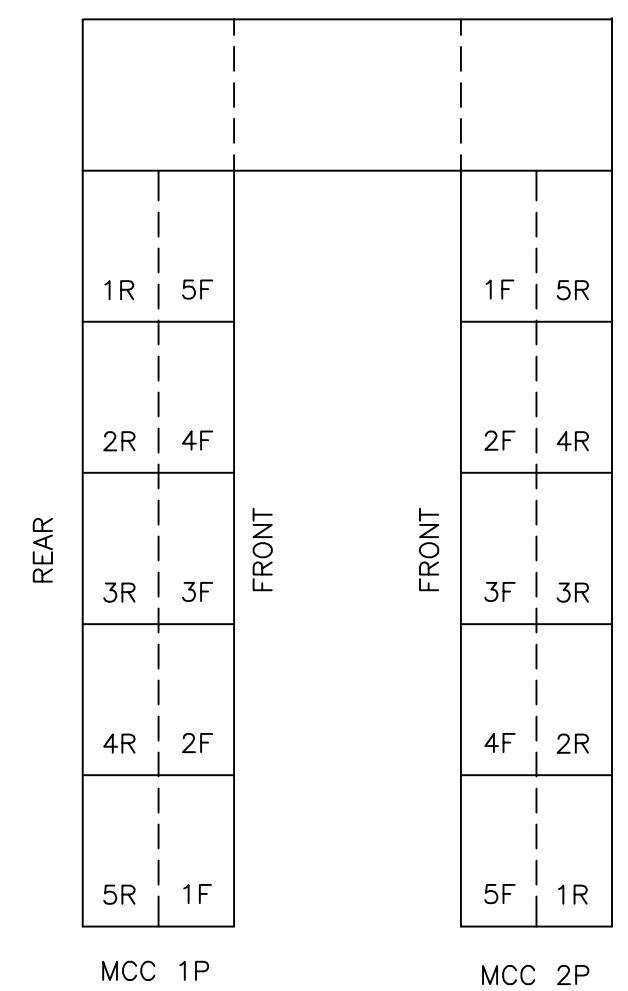
1. SEE DETAIL IN O & M MANUAL



MCC 1P – FRONT ELEVATION



MCC 1P – REAR ELEVATION



MCC 1P & 2P LAYOUT-PLAN VIEW

CONSTRUCTION NOTES	
1	PROGRAM IQ DATA PLUS II UNIT ON MCC-1P AND CONNECT ITS DISCRETE ALARM CONTACT TO DCS.



DESIGNED: N. BRADDOO		APPROVED: C. REIMER	
CHECKED: C. REIMER		DATE: 2009/12/07	
PROJECT No. 112577	SUBDIV. 0105	SUBJECT 47 DD	SERIAL 0303
			REV. 2

B.M. ELEV.	DATE	BY	REVISIONS
2	12/09	NB	ADDED UNDERVOLTAGE PROTECTION TO MCC-1P
1	05/91	B.T.	AS CONSTRUCTED
0	08/89	B.T.	ISSUED FOR TENDER
-	06/89	B.T.	ISSUED FOR APPROVAL

DESIGNED BY: W.L.		CHECKED BY:	
DRAWN BY: S.R.		APPROVED BY:	
HOR. SCALE: N.T.S.		RELEASED FOR CONSTRUCTION:	
VERTICAL:		DATE: JANUARY 1989	

ORIGINAL DRAWING SEALED BY: N. BRADDOO	CONSULTANT DRAWING NO. 870012-01-16-E114
SNC-LAVALIN 2009/12/07 REV. 02	

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 1P

CITY DRAWING NUMBER: _____
SHEET _____ OF _____
SEP-288