



TERMINAL LAYOUT TB21

F2011
F2012
F2013
F2014
F2015
C2011
C2012
C2013
C2014
C2015

TERMINAL LAYOUT TB23

F2011
F2012
F2013
C2011
C2012
C2013

FUSE SCHEDULE

TB	IDENTIFIER	SIZE	RATING
TB21	F2011	5X20mm	5A TD
	F2012	5X20mm	5A FA
	F2013	5X20mm	1A FA
	F2014	5x20mm	1A FA
	F2015	5x20mm	1A FA
TB23	F 2211	5x20mm	5A TD
	F 2212	5x20mm	5A FA
	F 2213	5x20mm	1A FA

NOTES  
FA = FAST ACTING  
TD = TIME DELAY

GENERAL NOTES:

TERMINAL LAYOUT TB31

CB-20121
CB-20122
C20121
C20122

TERMINAL LAYOUT TB33

CB-22121
CB-22122
C22121
C22122

ELECTRONIC CIRCUIT PROTECTION SCHEDULE

TB	IDENTIFIER	SIZE	RATING
TB31	CB-20121	12.5X80mm	1A CLASS 2
	CB-20122	12.5X80mm	1A CLASS 2
	CB-20123	12.5X80mm	1A CLASS 2
TB33	CB-22121	12.5X80mm	1A CLASS 2
	CB-22122	12.5X80mm	1A CLASS 2
	CB-22123	12.5X80mm	1A CLASS 2

NOTES

POWER CONSUMPTION SCHEDULE AT 24VDC FROM CP-F8000-1

LOAD	RM01 CURRENT (mA)	RM02 CURRENT (mA)	NOTES
PLC-F8000-A	1650		1
PLC-F8000-B		1650	1
NSW-F8300	417	417	2
NSW-F8310	417	417	2
NSW-F8320	417	417	2
LED24V15	1000		2
NGW-F8100	200		2
ND-F8100-1 RACK	800	800	2
ND-F8100-1 SEGMENT F8110	54		3
ND-F8100-1 SEGMENT F8120	182		3
RIO-F8000-1	5113	4993	3
FIT-F87021	380		1
FIT-F87031	380		1
FIT-F207703	380		1
FIT-F207713	380		1
FIT-F07723		380	1
FIT-F07804		380	1
FIT-F07713		380	1
TOTAL	11770	9834	

NOTES  
1. BASED ON 55W OF POWER CONSUMPTION.  
2. BASED ON DATA SHEET.  
3. BASED ON LOAD CALCULATION.

10	-	-
9	-	-
8	-	-
7	-	-
6	-	-
5	-	-
4	-	-
3	-	-
2	-	-
1	-	-
NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
REFERENCE DRAWINGS		



B.M. ELEV.

CONSTRUCTION COMPLETION DATE: YYYY MM DD

NO.	REVISIONS	DATE	BY
1	RE-ISSUED FOR CONSTRUCTION	2022 07 05	JAB
0	ISSUED FOR CONSTRUCTION	2022 05 18	JAB

**KGS GROUP**

DESIGNED BY	DG	CHECKED BY	JAB
DRAWN BY	RG	APPROVED BY	JAB
SCALE:	NTS	RELEASED FOR CONSTRUCTION	
DATE	2022 03 09	DATE	

ENGINEER'S SEAL

CONSULTANT DRAWING NUMBER

21-2017-015\_A5.102

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
ENGINEERING DIVISION

**Winnipeg**

NORTH END SEWAGE TREATMENT PLANT (NEWPCC)  
INTERIM PHOSPHOROUS REMOVAL  
AUTOMATION

BUILDING 101  
CP-F8000 POWER DISTRIBUTION SCHEMATIC

CITY DRAWING NUMBER: 1-0101-ACBD-F201-001

SHEET 3 OF 8