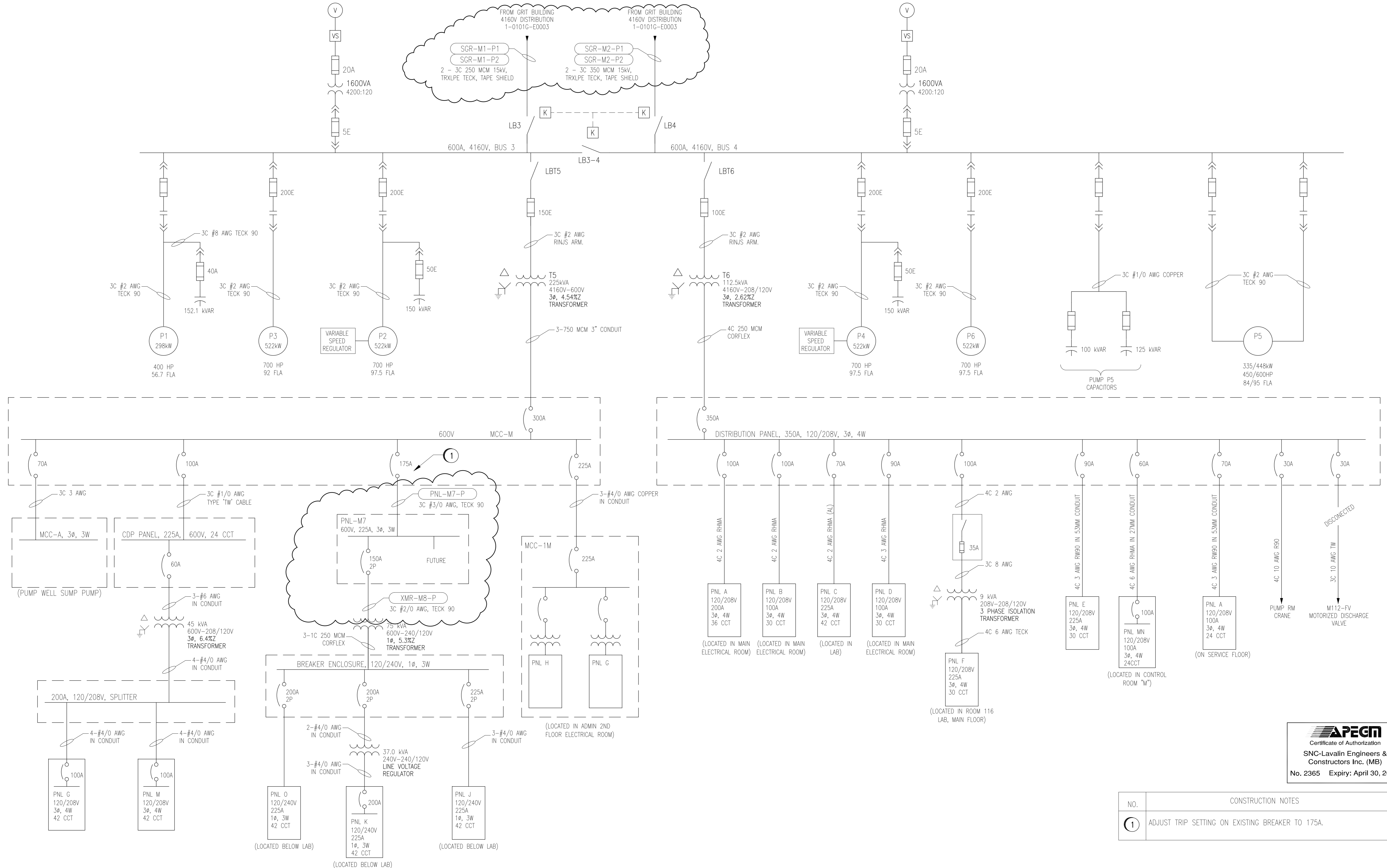


APPENDIX K – REFERENCE ELECTRICAL SINGLE LINE DRAWINGS

ITEM NO.	DRAWING NO.	DRAWING TITLE
1	1-0101M-E0014 R4	NORTH END WATER POLLUTION CONTROL CENTRE MAIN BUILDING SINGLE LINE DIAGRAM ELECTRICAL DISTRIBUTION
2	1-0101M-E0023	NORTH END POLLUTION CONTROL CENTRE MAIN BUILDING ELEVATION, SIGLE LINE AND SCHEDULE DP -M798 TEMPORARY MCC-M REPLACEMENT PANELBOARD
3	1-0101G-E0003-R7	NORTH END POLLUTION CONTROL CENTRE PREAERATION AND GRIT BUIDING SINGLE LINE DIAGRAM 4160V ELECTRICAL DISTRIBUTION



APEGN
 Certificate of Authorization
 SNC-Lavalin Engineers & Constructors Inc. (MB)
 No. 2365 Expiry: April 30, 2008

NO.	CONSTRUCTION NOTES
1	ADJUST TRIP SETTING ON EXISTING BREAKER TO 175A.

- NOTES:**
- THIS DRAWING WAS CREATED BASED UPON EXISTING DOCUMENTATION, AND A DETAILED SITE VERIFICATION WAS NOT PERFORMED AT THE TIME OF DRAWING CREATION. THE CITY OF WINNIPEG IS RESPONSIBLE FOR VERIFICATION OF THE EXISTING INSTALLATION REPRESENTED ON THIS DRAWING.
 - ALL METERING AND MOTOR CONTROL FUNCTIONS ARE NOT SHOWN ON THIS DRAWING.
 - ALL CONDUIT IS GENERALLY RIGID ALUMINUM, UNLESS OTHERWISE NOTED.

1-0101G-E0001	GRIT 4160V DISTRIBUTION SINGLE LINE DIAGRAM
1-0101A-E0001	4160V ELECTRICAL DISTRIBUTION SWITCHING DIAGRAM
1-0101A-E0001	ELECTRICAL SINGLE LINE DIAGRAM LEGEND & DETAILS
DRAWING NUMBER	REFERENCE DRAWINGS

B.M. ELEV.	FIELD BOOK #:	SNC • LAVALIN Engineers & Constructors		SNC • LAVALIN 148 Nature Park Way Winnipeg, Manitoba Canada R2V 0Y7	
POSTED TO LBIS		DESIGNED BY	EXISTING	CHECKED BY	C. REIMER
		DRAWN BY	DEB	APPROVED BY	C. REIMER
04	REVISED DRAWING NUMBER, WAS 1-0101M-E0001	2008/03/03	EFB	HOR. SCALE	NTS
03	AS BUILT	2007/11/22	AEO	RELEASED FOR CONSTRUCTION	J. ELIAS
02	ISSUED FOR CONSTRUCTION	2007/08/16	YM	DATE	2006/07/07
01	MODIFIED EXISTING DETAILS	2007/07/06	CJR	DATE	2007/08/17
00	ISSUED FOR TENDER	2007/06/22	YM	FILENAME:	1-0101M-E0014-001-04.DWG
NO. REVISIONS	DATE	BY			

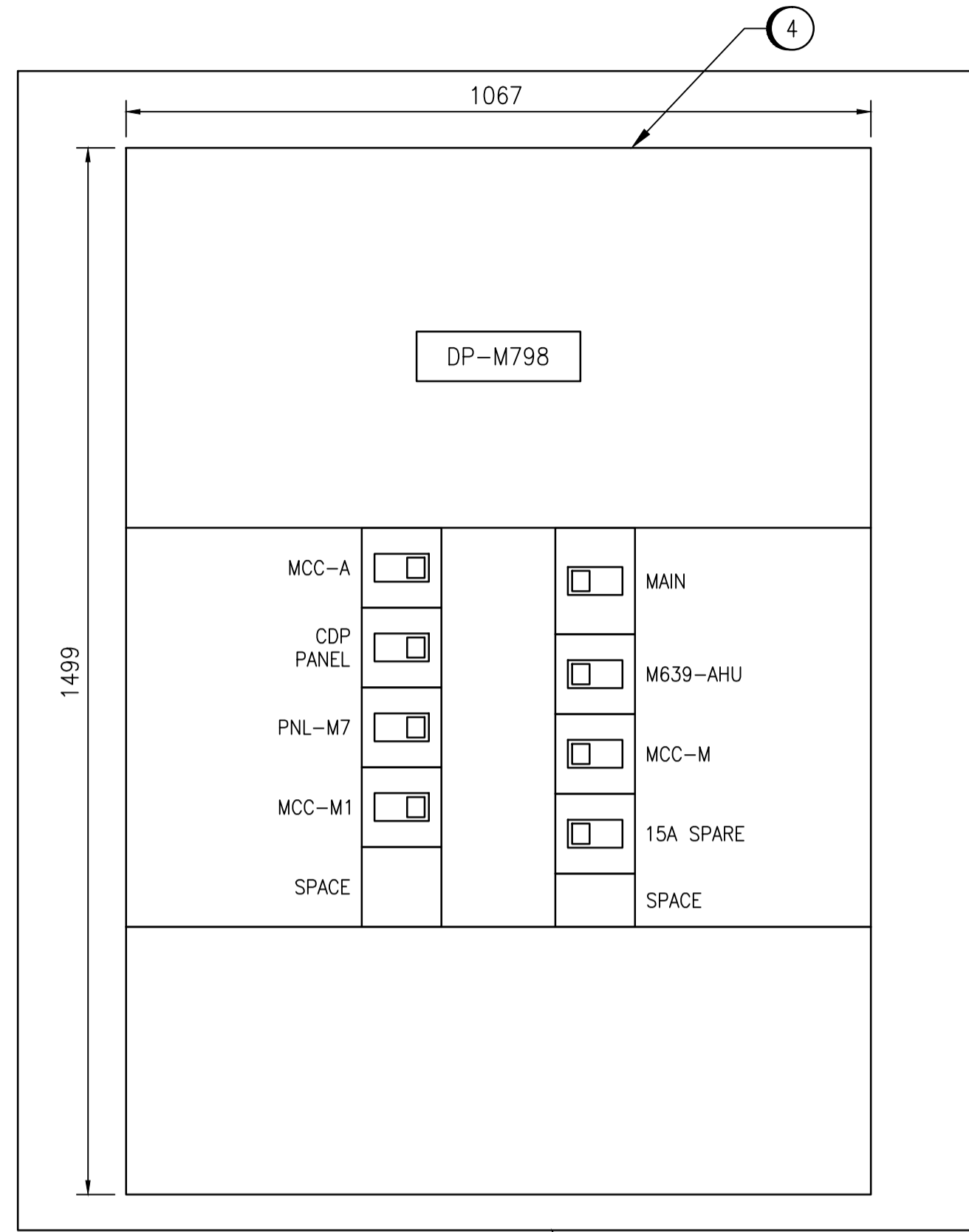
ENGINEER'S SEAL
 ORIGINAL DRAWING
 SEALED BY:
 C. J. REIMER
 2007/12/14
 REV. 03
 CLOUDED CHANGES ONLY

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

NORTH END WATER POLLUTION CONTROL CENTRE
 MAIN BUILDING
 SINGLE LINE DIAGRAM
 ELECTRICAL DISTRIBUTION

CITY DRAWING NUMBER
1-0101M-E0014

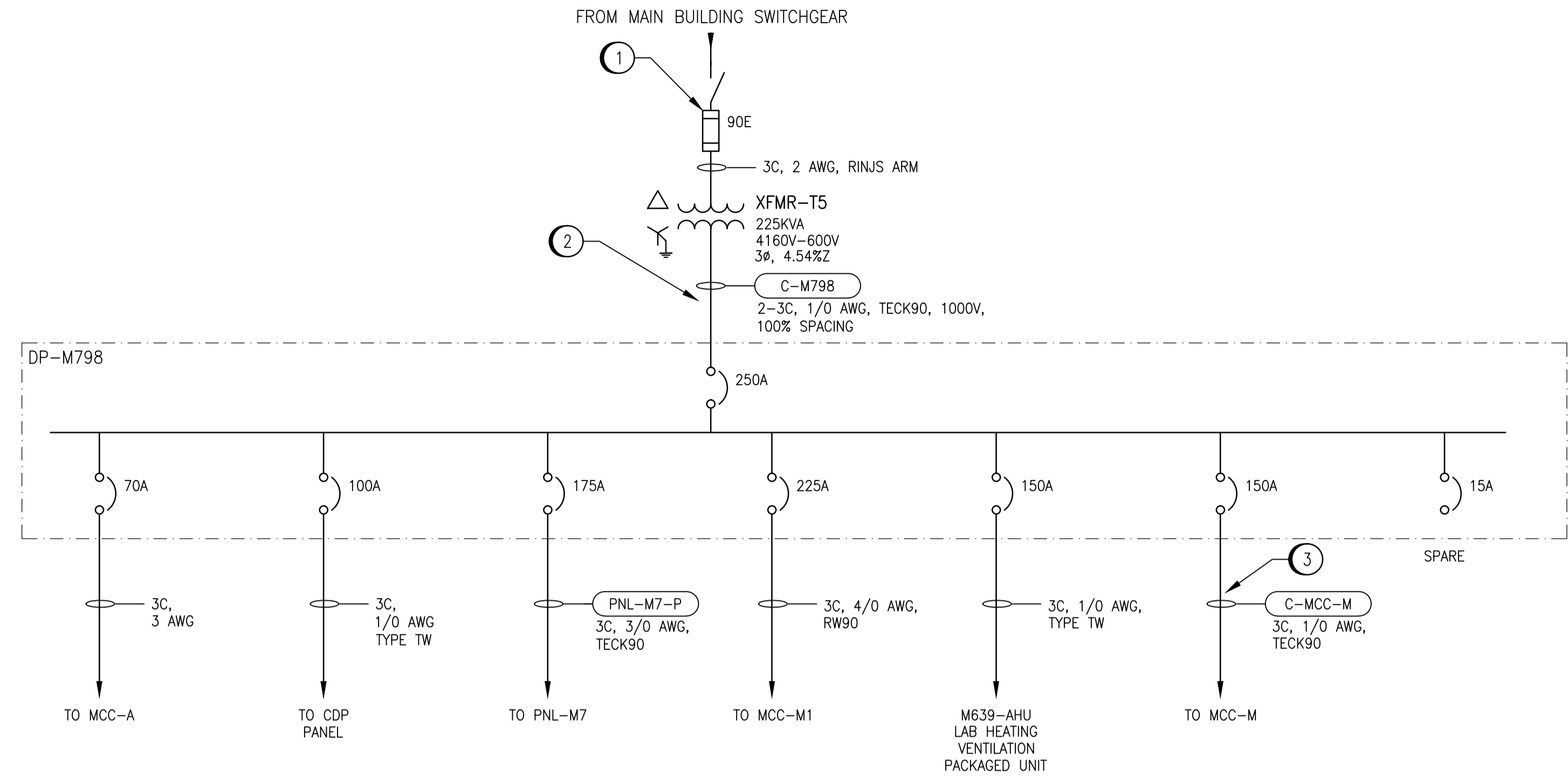
SHEET REV. SIZE
001 04 D



PLYWOOD BACK BOARD ON 2x4 FRAME AS REQUIRED TO SUPPORT EQUIPMENT

DP-M798 ELEVATION

SCALE: 1:8



DP-M798 SINGLE LINE

SCALE: NTS

PANEL ID:	DP-M798	AMPS:	400A	VOLTS:	600V	PHASE:	3P	WIRE:	3W	
DESCRIPTION:	TEMPORARY DISTRIBUTION PANEL	LOCATION:	BASEMENT							
MIN INTERRUPTING RATING:	14 KA	<input type="checkbox"/> SERIES RATED <input checked="" type="checkbox"/> ALL BREAKERS FULLY RATED	MOUNTING & ORIENTATION:	<input checked="" type="checkbox"/> SURFACE MOUNT <input type="checkbox"/> FLUSH MOUNT	<input checked="" type="checkbox"/> TOP FED <input type="checkbox"/> BOTTOM FED					
PANEL MFG:	SQUARE D (SCHNEIDER)	MODEL:	I-LINE HCP							
MAIN BREAKER:	400AF, BRANCH MOUNTED	TRIP RATING:	250A							
MODEL:	LA	MAIN BREAKER TYPE:	TM							
SETTINGS:										
BKR ID	DESCRIPTION	TYPE	TRIP (A)	SETTINGS	NOTE	WIRE	LOAD (KVA)	#A	#B	#C
CB-MCC-A	SUMP PUMP MCC	TM	70					X	X	X
CB-CDP	CDP PANEL	TM	100					X	X	X
CB-PNL-M7	BASEMENT DISTRIBUTION PANEL	TM	175					X	X	X
CB-MCC-M1	ADMIN. BUILDING MCC	TM	225					X	X	X
CB-M639	LAB HEATING / VENTILATION PACKAGED UNIT	TM	150	2				X	X	X
CB-MCC-M	ELECTRICAL ROOM MCC	TM	150					X	X	X
	SPARE	TM	15					X	X	X
TOTAL CONNECTED LOAD:	XX KVA	PHASE A:	XX.X KVA	PHASE B:	XX.X KVA	PHASE C:	XX.X KVA	XX A	XX A	XX A
DEMAND LOAD-SUMMER:	XX KVA	PHASE A:	XX.X KVA	PHASE B:	XX.X KVA	PHASE C:	XX.X KVA	XX A	XX A	XX A
DEMAND LOAD-WINTER:	XX KVA	PHASE A:	XX.X KVA	PHASE B:	XX.X KVA	PHASE C:	XX.X KVA	XX A	XX A	XX A
NOTES:	1. ALL BREAKERS MUST MEET THE MINIMUM INTERRUPTING RATING. 2. BREAKER SIZE AS PER NAMEPLATE DATA.									

DP-M798 SCHEDULE

SCALE: NTS

CONSTRUCTION NOTES

1. REPLACE 150E FUSE WITH 90E FUSE.
2. PROVIDE NEW CONDUCTORS TO FEED DP-M798. ENSURE PARALLEL CABLES ARE A MINIMUM OF ONE DIAMETER APART.
3. PROVIDE NEW CONDUCTORS TO FEED MCC-M.
4. RE-WIRE BRANCH BREAKERS USING EXISTING WIRING. INSTALL SPLICES FOR CONDUCTORS IN EXISTING WIREWAY, IF REQUIRED. ENSURE THAT SPLICES ARE INSULATED AND ACCESSIBLE AS PER 12-2106 OF THE CEC.



DESIGNED BY:	T. CHURCH	CHECKED BY:	C. REIMER
DRAWN BY:	M.J. PERSSON	APPROVED BY:	C. REIMER
SCALE:	AS SHOWN	ISSUED FOR CONSTRUCTION BY:	B. STATION
DATE:	2013/10/16	DATE:	2013/11/05
CONSULTANT NO.:			
NO.	REVISIONS	DATE	DESIGN CHECK
00	ISSUED FOR CITY USE	2013/11/05	TMC CJR

SNC-LAVALIN INC.
 148 Nature Park Way
 Winnipeg, MB, Canada R3P 0X7
 204-786-8080

ENGINEER'S SEAL

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

NORTH END WATER POLLUTION CONTROL CENTRE
 MAIN BUILDING
 ELEVATION, SINGLE LINE AND SCHEDULE
 DP-M798
 TEMPORARY MCC-M REPLACEMENT PANELBOARD

CITY DRAWING NUMBER: 1-0101M-E0023
 SHEET: 001
 REV: 00
 SIZE: A1

