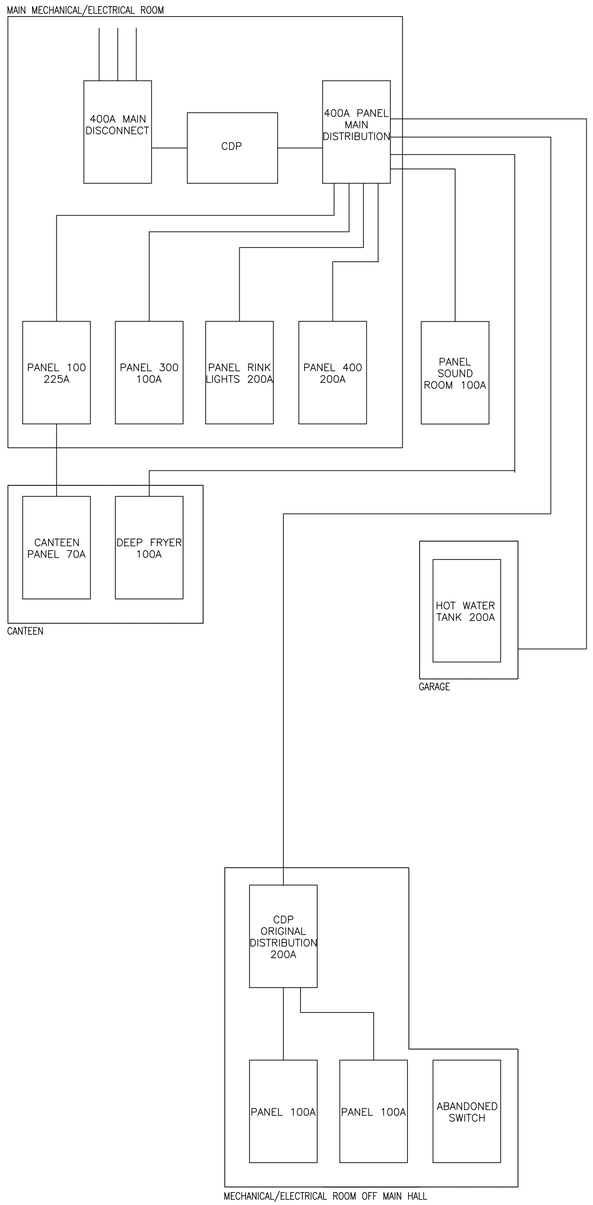

1 / E-1.5 EXISTING ELECTRICAL DISTRIBUTION - LINE SCHEMATIC

SCALE: N.T.S.

SUPPLY: 120/240V 1ø 3W
MAINS AMPACITY: 225A
INCOMING: ■ BREAKER ☐ LUGS
MAIN BREAKER REQUIRED: ☐ YES ■ NO
MAIN BREAKER AMPS: –
BUS MATERIAL: ☐ COPPER ■ ALUMINUM
BUS AND BREAKER RATING: 10 kA (SYM.) I.C.

NAME PLATE: PANEL 400

LOCATION: MECHANICAL ROOM
MOUNTING: ■ SURFACE ☐ FLUSH
MANUFACTURER: FEDERAL PACIFIC
MODEL NO: 120–40
BREAKER: ■ PLUG–IN ☐ BOLT–ON
BREAKER TYPE: –
WIRE GAUGE SIZE:

CCT		VA	P	BKR	A	B	BKR	P	VA		CCT
1	RECEPTACLES	–		15	♦		15		–	GARAGE STORAGE SHED	2
3	FURNACE	1000		15		♦			–		4
5	RECEPTACLES	–		15	♦				–		6
7	GARAGE DOOR OPENERS	700		15		♦	50		6000	MAKE–UP AIR UNIT (MAU)	8
9		–			♦				–		10
11		–				♦			–		12
13		–			♦				–		14
15		–				♦			–		16
17	–	–			♦				–	–	18
19	–	–				♦			–	–	20
21	–	–			♦				–	–	22
23	–	–				♦			–	–	24
25	–	–			♦		50		9600	MAU CONDENSER #2	26
27	–	–				♦			–		28
29	–	–			♦				–		30
31	–	–				♦			–		32
33	MAU CONDENSER #3	9600		50	♦		50		9600	MAU CONDENSER #1	34
35		–				♦			–		36
37		–			♦				–		38
39		–				♦			–		40
41	–	–			♦				–	–	42
		11300							25200	TOTAL VA 36500	

SUPPLY: 120/240V 1ø 3W
MAINS AMPACITY: 400A
INCOMING: ■ BREAKER ☐ LUGS
MAIN BREAKER REQUIRED: ☐ YES ■ NO
MAIN BREAKER AMPS: –
BUS MATERIAL: ☐ COPPER ☐ ALUMINUM
BUS AND BREAKER RATING: 10 kA (SYM.) I.C.

NAME PLATE: RINK LIGHTS

LOCATION: MECHANICAL ROOM
MOUNTING: ■ SURFACE ☐ FLUSH
MANUFACTURER: CANADIAN GENERAL ELECTRIC
MODEL NO: 78151
BREAKER: ☐ PLUG–IN ☐ BOLT–ON
BREAKER TYPE: –
WIRE GAUGE SIZE:

	CCT		VA	P	BKR	A	B	BKR	P	VA		CCT	
4	1	RINK 3	7200	2	40	♦		40	2	7200	RINK 1	2	2
	3						♦					4	
2	5	RINK 2	7200	2	40	♦		–		–	–	6	
	7						♦	–		–	–	8	
2	9	RINK 2	7200	2	40	♦		40	2	7200	RINK 1	10	2
	11					♦						12	
2	13	RINK 1	7200	2	40	♦		40	2	7200	RINK 1	14	2
	15						♦					16	
	17	–	–			♦		40	2	7200	PARKING LOT	18	2
	19	–	–				♦					20	
	21	GRILLE RECEPTACLE	7680	2	40	♦		40	2	7200	PARKING LOT	22	2
	23						♦					24	
	25	–	–		40	♦		40	2	7200	PARKING LOT	26	2
	27	–	–			♦				–	–	28	
	29	–	–			♦		15		–	TIMER ON #3	30	3
	31	–	–				♦	15		–	?	32	
	33	RECEPTACLE – SOUTH EAST SKATE	–		15	♦		15		–	?	34	
	35	RECEPTACLE – NORTH WALL RM #4	–		15		♦	–		–	–	36	
	37	–	–			♦		–		–	–	38	
	39	–	–				♦	40	2	1000	RINK 1	40	2
	41	–	–			♦				–		42	
			36480							44200	TOTAL VA 80680		

SUPPLY: 120/240V 1ø 3W
MAINS AMPACITY: 100A
INCOMING: ■ BREAKER ☐ LUGS
MAIN BREAKER REQUIRED: ☐ YES ■ NO
MAIN BREAKER AMPS: –
BUS MATERIAL: ☐ COPPER ■ ALUMINUM
BUS AND BREAKER RATING: 10 kA (SYM.) I.C.

NAME PLATE: HALL PANEL #1

LOCATION: MECHANICAL ROOM
MOUNTING: ■ SURFACE ☐ FLUSH
MANUFACTURER: FEDERAL PACIFIC
MODEL NO: 116–16
BREAKER: ■ PLUG–IN ☐ BOLT–ON
BREAKER TYPE: –
WIRE GAUGE SIZE:

CCT		VA	P	BKR	A	B	BKR	P	VA		CCT
1	–	–		15	♦		15		–	RECEPT. 2nd FLOOR–OLD BOARD RM–COMPUTER	2
3	–	–		15		♦	15		–	SKATE AREA HALLWAY	4
5	–	–		15	♦		15		–	–	6
7	FOUNTAIN COKE MACHINE	540		15		♦	15		–	MAIN HALL EXIT LIGHTS	8
9	KITCHEN MICROWAVE	1500		15	♦		15		600	LIGHTS 2nd FLOOR – OLD BOARD RM	10
11	–	–	2	15		♦	15		300	BLUE LIGHTS – MAIN HALL, NORTH CUBBY STORAGE	12
13	–	–			♦		15		–	–	14
15	KITCHEN EXHAUST FAN	200		15		♦	15		1440	OFFICE LIGHTS & PHOTOCOPIER – 2nd FLOOR OLD BOARD RM	16
17	FURNACE	1000		15	♦		15	2	–	RECEPT., SOUTH CUBBY STORAGE – 2nd FLOOR OLD BOARD RM	18
19	–	–	2	15		♦			–		20
21	–	–			♦		15		–	RECEPT. – MAIN HALL NORTH & SOUTH WALL	22
23	–	–		15		♦	15		–	–	24
25	LIGHTS – MAIN HALL, KITCHEN & NORTH VESTIBULE	1000		15	♦		15		–	–	26
27	CEILING FANS – MAIN HALL	350		15		♦	15		–	–	28
29	LIGHTS & RECEPS. – FURNACE RM & KITCHEN	–		15	♦		15		1680	LIGHTS – MAIN HALL	30
31	WADING POOL			15		♦	15			–	32
		4590							4020	TOTAL VA 8670	

SUPPLY: 120/240V 1ø 3W
MAINS AMPACITY: 225A
INCOMING: ■ BREAKER ☐ LUGS
MAIN BREAKER REQUIRED: ☐ YES ■ NO
MAIN BREAKER AMPS: –
BUS MATERIAL: ☐ COPPER ■ ALUMINUM
BUS AND BREAKER RATING: 10 kA (SYM.) I.C.

NAME PLATE: PANEL 100

LOCATION: MECHANICAL ROOM
MOUNTING: ■ SURFACE ☐ FLUSH
MANUFACTURER: CANADIAN GENERAL ELECTRICAL
MODEL NO:
BREAKER: ☐ PLUG–IN ■ BOLT–ON
BREAKER TYPE: –
WIRE GAUGE SIZE:

	CCT		VA	P	BKR	A	B	BKR	P	VA		CCT
	1	EAST WALL CENTER CANTEEN COUNTER RECEPT.	–		15	♦		15		–	EAST DOOR FURNACE ROOM RECEPT	2
	3	CANTEEN COUNTER RECEPT–HOT CHOCOLATE MACHINE	800		15		♦	15		–	CHANGE ROOM 8–9 RECEPT	4
	5	CANTEEN LIGHTS	800		15	♦		15		–	CHANGE ROOM 7–8–9 LIGHTS/#7 RECEPT SOUTH CENTER SKATE CHANGE	6
	7	NORTH EAST CANTEEN COUNTER RECEPT.	–		15		♦	15		–	EAST LOBBY LIGHTS	8
	9	EAST FURNACE ROOM LIGHTS	–		15	♦		15		300	ALL EXIT LIGHTS	10
4	11	EAST SKATE CHANGE FURNACE	1000		15		♦	15		–	–	12
	13	GRILLE RECEPT	–	2	20	♦		15		–	NORTHWEST CANTEEN RECEPT.	14
	15	UNDER GREASE HOOD	–				♦	15		–	–	16
	17	NORTH CANTEEN CENTER RECEPT TOP	–		30	♦		15		–	–	18
	19	NORTH CANTEEN CENTER RECEPT BOTTOM	–		15		♦	15		–	DOORBELL (EAST SIDE)	20
	21	FIRE ALARM	–		15	♦		70		*	KITCHEN PANEL	22
	23	–	–		15		♦			–		24
			1600							300	TOTAL VA 1900	

* SEE KITCHEN PANEL

SUPPLY: 120/240V 1ø 3W
MAINS AMPACITY: 100A
INCOMING: ■ BREAKER ☐ LUGS
MAIN BREAKER REQUIRED: ☐ YES ■ NO
MAIN BREAKER AMPS: –
BUS MATERIAL: ☐ COPPER ■ ALUMINUM
BUS AND BREAKER RATING: 10 kA (SYM.) I.C.

NAME PLATE: HALL PANEL #2

LOCATION: MECHANICAL ROOM
MOUNTING: ■ SURFACE ☐ FLUSH
MANUFACTURER: FEDERAL PACIFIC
MODEL NO: 108–12
BREAKER: ■ PLUG–IN ☐ BOLT–ON
BREAKER TYPE: –
WIRE GAUGE SIZE:

CCT		VA	P	BKR	A	B	BKR	P	VA		CCT
1	FRIDGE	540		15	♦		–		–	SPARE	7
2	–	–		15		♦	–		–	SPARE	8
3	–			15	♦		–		–	SPARE	9
4	STOVE	8000	2	40		♦	–		–	SPARE	10
5	STOVE	–			♦		–		–	SPARE	11
6	SPARE	–		–		♦	–		–	SPARE	12
		8540							–	TOTAL VA 8540	

SUPPLY: 120/240V 1ø 4W
MAINS AMPACITY: 100A
INCOMING: ■ BREAKER ☐ LUGS
MAIN BREAKER REQUIRED: ☐ YES ■ NO
MAIN BREAKER AMPS: –
BUS MATERIAL: ☐ COPPER ■ ALUMINUM
BUS AND BREAKER RATING: 10 kA (SYM.) I.C.

NAME PLATE: PANEL 300

LOCATION: MECHANICAL ROOM
MOUNTING: ■ SURFACE ☐ FLUSH
MANUFACTURER: FPE
MODEL NO:
BREAKER: ■ PLUG–IN ☐ BOLT–ON
BREAKER TYPE: –
WIRE GAUGE SIZE:

	CCT		VA	P	BKR	A	B	BKR	P	VA		CCT
	1	A/C #1 HALL (NOT USED)	13440		70	♦		70		13440	A/C #2 HALL (NOT USED)	9
	2		–				♦			–	–	10
	3		–			♦				–	–	11
	4		–				♦			–	–	12
	5	TELEPHONE RECEPTACLE	–		15	♦		60		14000	CANTEEN GRILLE	13
4	6	MAIN ENTRANCE HEATER	7200		30		♦			–	–	14
	7		–			♦				–	–	15
4	8	CANOPY LIGHTS	600		15		♦			–	–	16
			–							14000	TOTAL VA 14000	

SUPPLY: 120/240V 1ø 4W
MAINS AMPACITY: 400A
INCOMING: ■ BREAKER ☐ LUGS
MAIN BREAKER REQUIRED: ☐ YES ■ NO
MAIN BREAKER AMPS: –
BUS MATERIAL: ☐ COPPER ■ ALUMINUM
BUS AND BREAKER RATING: 10 kA (SYM.) I.C.

NAME PLATE: KITCHEN PANEL

LOCATION: CANTEEN
MOUNTING: ■ SURFACE ☐ FLUSH
MANUFACTURER: FEDERAL PACIFIC
MODEL NO: 104–8
BREAKER: ■ PLUG–IN ☐ BOLT–ON
BREAKER TYPE: –
WIRE GAUGE SIZE:

CCT		VA	P	BKR	A	B	BKR	P	VA		
1	–	–		–	♦		–		–	–	
2	FRYER	2000	2	15		♦	–		–	–	
3	–	–			♦		–		–	–	
4	SPARE	–		15		♦	–		–	–	
5	EXHAUST FAN	1800	2	15	♦		–		–	–	
6	–	–		15		♦	–		–	–	
7	FREEZER RECEPTACLE	540		15	♦		–		–	–	
8	HOT DOG MACHINE RECEPTACLE	1880		20		♦	–		–	–	
9	–	–		–	♦		–		–	–	
		6220							–	TOTAL VA 8670	

2 / E-1.5 EXISTING ELECTRICAL PANEL SCHEDULES

SCALE: N.T.S.

PANELS: COMBINED VA ≈ 158960
÷ 240V ≈ 663A

RECEPTACLES: ≈ 66 RECEPTACLE TOTAL 1A PER
66A x 120 = 7920VA
÷ 240 ≈ 33A

TOTAL COMBINED LOAD ≈ 696A AT 240/120V

DRAWING NOTES

1. "RINK 3" LIGHTS TO BE DECOMMISSIONED. ALL CONDUIT AND WIRING TO BE REMOVED.
2. REWIRE THROUGH NEW 'PLC MULTIPOINT' LIGHTING CONTROLLER: MODEL LCM–PL–A10–B4–C8–D3–E120–FN1 COMPLETE WITH CES/O–1–10 OUTDOOR SENSOR AND DIN RAIL–MOUNTED CONTACTORS RATED FOR THE LIGHTING LOADS: ZONE A–RINK 1 (240V–4 DOUBLE POLE–8000VA EACH), ZONE B–RINK 2 (240V–2 DOUBLE POLE–8000VA EACH), ZONE C–PARKING LOT (240V–3 DOUBLE POLE–8000VA), ZONE D–PLEASURE RINK (347V–3 POLES–2000VA EACH).
3. REMOVE EXISTING TIMER
4. REMOVE ALL WIRING AND ASSOCIATED EQUIPMENT UP TO BREAKER

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This drawing is not intended to be an as–built or record drawing. The contractor is responsible for verifying the accuracy of the information on–site. If there is any information that is in error, the contractor shall record the discrepancy and contact the Engineer immediately with his findings.

DATE	NO.	DESCRIPTION	DRAWN BY
2010MAY13	0	ISSUE FOR TENDER	BH

REVISIONS

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JOB TITLE:
ADDITION & RENOVATION OF WINAKWA COMMUNITY CENTRE
980 WINAKWA ROAD
WINNIPEG, MB

DRAWING TITLE:
EXISTING ELECTRICAL DISTRIBUTION & PANELS

SCALE: N.T.S.	DATE: 2010 MAY 13		DRAWING NO:
DRAWN B.H.	DESIGN B.H.	CHECKED B.H.	E-1.5
FILE NO: –	PROJECT NO: 339–2010		