

PANEL 100
225A, 240V, 3PH, 3W

CCT #	DESCRIPTION	BREAKER SIZE	WIRE SIZE	CCT #	DESCRIPTION	BREAKER SIZE	WIRE SIZE
1			EXISTING	22			EXISTING
2	RTU-1 2ND FLOOR OFFICES	60A	EXISTING	23	SECOND FLOOR HUMIDIFIER	40A	EXISTING
3			EXISTING	24			EXISTING
4			EXISTING	25			EXISTING
5	RTU-3 3RD FLOOR FRONT OFFICES	60A	EXISTING	26	1/2 HP DOOR OPENER WEST	15A	EXISTING
6			EXISTING	27			EXISTING
7			EXISTING	28			EXISTING
8	RTU-2 MAIN FLOOR OFFICES	50A	EXISTING	29	1/2 HP DOOR OPENER	15A	EXISTING
9			EXISTING	30			EXISTING
10			EXISTING	31			EXISTING
11	AIR COMPRESSOR (8.4 FLA)	20A	EXISTING	32	1/2 HP DOOR OPENER	15A	EXISTING
12			EXISTING	33			EXISTING
13	FORCE FLOW HEATER ENTRANCE 3kW	20A	#12	34			EXISTING
14			#12	35	1 HP EXHAUST FAN	15A	EXISTING
15				36			EXISTING
16	WASHROOM BASEBOARD HEATER (1kW)	15A	#12	37			EXISTING
17			#12	38	1 HP AIR MAKE UP	15A	EXISTING
18	SECOND FLOOR S. OFFICE HEATERS (2.25kW)	20A	EXISTING	39			EXISTING
19			EXISTING	40			EXISTING
20	SECOND FLOOR N. OFFICE HEATERS (2kW)	20A	EXISTING	41			
21			EXISTING	42			

PANEL P
225A, 120/240V, 1PH, 3W

CCT #	DESCRIPTION	BREAKER SIZE	WIRE SIZE	CCT #	DESCRIPTION	BREAKER SIZE	WIRE SIZE
1A	OFFICE RECEPTACLES	15A	EXISTING	22	NE ASSEMBLY & W GARAGE REC	15A	EXISTING
1B							
2A	LAB RECEPTACLE	15A	EXISTING	23	NE ASSEMBLY RECEPTACLES	15A	EXISTING
2B	OFFICE RECEPTACLES	15A	EXISTING				
3	LAB RECEPTACLE	15A	EXISTING	24	NW ASSEMBLY & N STAIR REC	15A	EXISTING
4	LAB RECEPTACLE	15A	EXISTING	25	OFFICE 1 RECEPTACLE	15A	#12
5	LAB RECEPTACLE	15A	EXISTING	26			EXISTING
6			EXISTING	27	PARKING PANEL PK	100A	EXISTING
7	LAB RECEPTACLE	15A	EXISTING	28	N ENGINEER OFFICE RECEPTACLES	15A	EXISTING
8	LAB RECEPTACLE	15A	EXISTING	29	GENERAL OFFICE RECEPTACLES	15A	EXISTING
9	SUPERVISOR RECEPTACLES	15A	EXISTING	30	TECHNICIAN	15A	EXISTING
10A	CREWS COMPUTER	15A	EXISTING	31	XEROX	15A	EXISTING
10B	SPR.	15A	EXISTING				
11	LAB RECEPTACLE	15A	EXISTING	32	S ENGINEER & SUPER	15A	EXISTING
12	LAB RECEPTACLE	15A	EXISTING	33	RECEPTION	15A	EXISTING
13	LAB RECEPTACLE	15A	EXISTING	34	SE DRAFTING RECEPTACLES	15A	EXISTING
14	LAB POWER DOOR OPERATOR PDO	15A	EXISTING	35	NW DRAFTING RECEPTACLES	15A	EXISTING
15	LAB RECEPTACLE	15A	EXISTING	36	SE DRAFTING RECEPTACLES	15A	EXISTING
16	LAB RECEPTACLE	15A	EXISTING	37	NE DRAFTING RECEPTACLES	15A	EXISTING
17	S STAIR & CORRIDOR RECEPTACLES	15A	EXISTING	38	S GARAGE RECEPTACLES	15A	EXISTING
18	LAB RECEPTACLE	15A	EXISTING	39			
19	DOOR ENTRY CONTROL SYSTEM	15A	#12	40			
20				41			
21				42			

GENERAL NOTES:

- A. PANEL DIRECTORIES FOR EXISTING PANELS 100, P AND PP REFLECT EXISTING CIRCUITRY. UPON COMPLETION OF PROJECT TYPE UP NEW DIRECTORIES FOR THESE PANELS, REFLECTING CHANGES MADE OR RE-APPLICATION OF EXISTING CIRCUITS, WITH MATCHING GREY PAINT, RE-PAINT THE PANEL COVERS TO COVER ANY OLD MARKED-ON CIRCUIT INFORMATION.
- B. CIRCUIT INFORMATION AND DIRECTORIES ON THESE DRAWINGS SHOW A SUGGESTED LAYOUT OF CIRCUITS, THOUGH THEIR PRIMARY PURPOSE IS FOR DEPICTING THE REQUIRED CIRCUITS ON EACH PANEL. ADAPT CIRCUITRY IN THE FIELD TO ENSURE AN EFFICIENT INSTALLATION, GIVING ATTENTION TO PROPER BALANCING OF PHASES AND MEETING THE REQUIREMENTS OF ALL CODES. CIRCUITS SHARING A NEUTRAL SHALL BE FED FROM ADJACENT BREAKERS.
- C. ENSURE THAT ALL BREAKERS AND CONDUCTORS FEEDING EQUIPMENT ARE SIZED TO COMPLY WITH THE CEC.

PANEL PP
225A, 120/240V, 1PH, 3W

CCT #	DESCRIPTION	BREAKER SIZE	WIRE SIZE	CCT #	DESCRIPTION	BREAKER SIZE	WIRE SIZE
1	MICROPROCESSING LIGHTS	20A	EXISTING	22	S OFFICES & LIGHTS	15A	EXISTING
2	MICROPROCESSING & SUPER	15A	EXISTING	23	GEN OFFICE LIGHTS	15A	EXISTING
3	EAST MEZZANINE LIGHTS	15A	#12	24	TECHNICAL LIGHTS	15A	EXISTING
4	EAST MEZZANINE LIGHTS	15A	#12	25	NORTH OFFICE LIGHTS	15A	EXISTING
5	SHOP & CLOSET LIGHTS	15A	EXISTING	26	MAIN WASHROOM EXHAUST FAN	15A	EXISTING
6	CENTER LIGHTS	15A	EXISTING	27	1ST FL.NIGHT LIGHTS, BATTERY UNIT	15A	#12
7	PARTS LIGHTS	15A	EXISTING	28	2ND FLOOR WASHROOMS EXHAUST	15A	EXISTING
8	PARTS LIGHTS	15A	EXISTING	29		80A	#4
9	SOUTH STAIR LIGHTS	15A	EXISTING	30			#4
10	N STAIR & MECH. ROOM LIGHTS	15A	EXISTING	31	UNIT HEATER NO. 2 GARAGE	15A	EXISTING
11	ASSEMBLY LIGHTS	15A	EXISTING	32	UNIT HEATER NO. 3 GARAGE	15A	EXISTING
12	ASSEMBLY LIGHTS	15A	EXISTING	33	TELEPHONE RECEPTACLE	15A	EXISTING
13	WATER COOLER	15A	EXISTING	34	UNIT HEATER NO. 1	15A	EXISTING
14	LOCKER & CORN LIGHTS	15A	EXISTING	35			
15	MAIN FLOOR WASHROOM LIGHTS	15A	EXISTING	36			
16	GARAGE LIGHTS	15A	EXISTING	37		40A	EXISTING
17	GARAGE LIGHTS	20A	EXISTING	38	PARKING PANEL		EXISTING
18	2ND FLOOR NIGHT LIGHTS, BATTERY UNIT	15A	#12	39			
19	TIE LINE RECEPTACLES	15A	EXISTING	40			
20	RECEPTION LIGHTS	15A	EXISTING	41	LUNCHROOM LIGHTS	15A	EXISTING
21	2ND FLOOR QOR WC LIGHTS	15A	EXISTING	42A	S OUTSIDE LIGHTS	15A	EXISTING
				42B	HEAT DETECTORS SHOP	15A	EXISTING

PANEL PQ
225A, 120/240V, 1PH, 3W

CCT #	DESCRIPTION	BREAKER SIZE	WIRE SIZE	CCT #	DESCRIPTION	BREAKER SIZE	WIRE SIZE
1	LUNCH RM E RECEPTACLES	15A	#12	37	OPERATOR WORKSTATION	15A	#12
2	LUNCH RM W RECEPTACLES	15A	#12	38	OPERATOR WORKSTATION	15A	#12
3	LUNCH RM FRIDGE	15A	#12	39	OPERATOR PRINTER	15A	#12
4	LUNCH RM MICROWAVE	15A	#12	40	TMC WEST WALL AV	15A	#12
5	LUNCH RM MICROWAVE	15A	#12	41	TMC WEST WALL AV	15A	#12
6	LUNCH RM COUNTER	20A	#12	42	OPERATOR RM RECEPTACLES	15A	#12
7	LUNCH RM COUNTER	20A	#12	43	OP RM AIR CON BLOWER AC-1	15A	#12
8	LOCKER RM RECEPTACLES	15A	#12	44			
9	S WASHROOM RECEPTACLE	15A	#12	45	PROJECTS MANAGER REC	15A	#12
10	CENTER WASHROOM RECEPTACLE	15A	#12	46	MEZZANINE EAST RECEPTACLES	15A	#12
11	CENTER WASHROOM RECEPTACLE	15A	#12	47	SUPERVISOR OPERATIONS REC	15A	#12
12	POWER DOOR OPERATORS PDO	15A	#12	48	WH-F ACCESS	20A	#12
13	LAB FOREMAN RECEPTACLES	15A	#12	49	PLOTTER 1	15A	#12
14	TMC SUPERVISOR RECEPTACLES	15A	#12	50	PLOTTER 2	15A	#12
15	TMC SUPERVISOR RECEPTACLES	15A	#12	51	STUDENT AREA WEST REC	15A	#12
16	TMC SUPERVISOR RECEPTACLES	15A	#12	52	RECORDS RECEPTACLE	15A	#12
17	WAITING, MEETING RECEPTACLES	15A	#12	53	PRINTER / FAX RECEPTACLE	15A	#12
18	MEETING RM RECEPTACLES	15A	#12	54	TIMINGS RECEPTACLES	15A	#12
19	MEETING RM TABLE	15A	#12	55	TIMINGS RECEPTACLES	15A	#12
20	MEETING RM TABLE	15A	#12	56	TIMINGS RECEPTACLES	15A	#12
21	MEETING RM TABLE	15A	#12	57	TIMINGS MICROWAVE	15A	#12
22	MEETING RM TABLE	15A	#12	58	TIMINGS COUNTER	15A	#12
23	OPERATOR RM RACK	15A	#12	59	TIMINGS BAR FRIDGE	15A	#12
24	OPERATOR RM RACK	15A	#12	60	2ND FLOOR MICROWAVE	15A	#12
25	OPERATOR RM RACK	15A	#12	61	2ND FLOOR BAR FRIDGE	15A	#12
26	OPERATOR RM RACK	15A	#12	62	2ND FLOOR MICROWAVE	15A	#12
27	VIDEO WALL RECEPTACLES	15A	#12	63	PROCUREMENT RECEPTACLES	15A	#12
28	VIDEO WALL RECEPTACLES	15A	#12	64	CLERKS RECEPTACLES	15A	#12
29	VIDEO WALL RECEPTACLES	15A	#12	65	ROOF RECEPTACLE	20A	#12
30	VIDEO WALL RECEPTACLES	15A	#12	66	ROOF RECEPTACLE	20A	#12
31	OPERATOR WORKSTATION	15A	#12	67	2ND FLOOR MEETING RM TABLE	15A	#12
32	OPERATOR WORKSTATION	15A	#12	68	2ND FLOOR MEETING RM TABLE	15A	#12
33	OPERATOR WORKSTATION	15A	#12	69	2ND FLOOR MEETING RM TABLE	15A	#12
34	OPERATOR WORKSTATION	15A	#12	70	2ND FLOOR MEETING RM TABLE	15A	#12
35	OPERATOR WORKSTATION	15A	#12	71	2ND FLOOR MEETING RM REC	15A	#12
36	OPERATOR WORKSTATION	15A	#12	72	2ND FLOOR MEETING RM REC	15A	#12

PANEL PS
225A, 120/240V, 1PH, 3W

CCT #	DESCRIPTION	BREAKER SIZE	WIRE SIZE	CCT #	DESCRIPTION	BREAKER SIZE	WIRE SIZE
1	EXIT LIGHTS	15A	#12	16			#12
2	LIGHTS / FAN EF-5 / HRV-1	15A	#12	17	DUCT HEATER DH-1	15A	#12
3	EXTERIOR LIGHTS	15A	#12	18			#12
4	NORTH RECEPTACLES	15A	#12	19	DUCT HEATER DH-2	15A	#12
5	SOUTH RECEPTACLES	15A	#12	20			#12
6	CHARGING RECEPTACLE	15A	#12	21	OVERHEAD DOOR OH	15A	#12
7	CHARGING RECEPTACLE	15A	#12	22			
8	CHARGING RECEPTACLE	15A	#12	23			
9	CHANGE RM RECEPTACLE	15A	#12	24			
10	UNIT HEATERS UH-1,2	15A	#12	25			
11	HEATING PANELS HP-1,2	15A	#12	26			
12	LIFT STATION LS-1	15A	#12	27			
13				28			
14				29			
15				30			

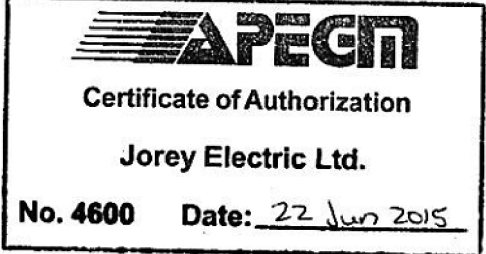
EQUIPMENT SCHEDULE

NUMBER	DESCRIPTION	KW/HP/A	VOLTS/PH	BREAKER	CONDUCTOR	LOCATION	NOTES
RTU-1	ROOF-TOP UNIT	5 TON	240V / 3PH		CONFIRM	ROOF	NEW. GAS HEAT. RE-USE EXISTING WIRING IF ADEQUATE.
RTU-2	ROOF-TOP UNIT	7.5 TON	240V / 3PH		EXISTING	ROOF	RELOCATED. GAS HEAT. CONFIRM BREAKER AND WIRE SIZE ARE ADEQUATE.
RTU-3	ROOF-TOP UNIT	5 TON	240V / 3PH		EXISTING	ROOF	EXISTING. ELECTRIC HEAT. CONFIRM BREAKER AND WIRE SIZE ARE ADEQUATE.
AC-1	AIR CONDITIONER BLOWER	1.8A	240V / 1PH	15A / 2P	2 #12	OPERATIONS	
C-1	AIR CONDITIONER CONDENSOR	18A	240V / 1PH	30A / 1P	2 #10	OUTSIDE	CONFIRM ELECTRICAL REQUIREMENTS.
EF	EXHAUST FAN	FRACTIONAL	120V		EXISTING	2ND FLOOR WASHROOMS	
EF-1,2,3,4	EXHAUST FAN	FRACTIONAL	120V	15A / 1P	2 #12	WASHROOMS LOCKER RM	SWITCHED WITH LIGHTS
EF-5	EXHAUST FAN	3.4A	120V	15A / 1P	2 #12	STORAGE ADDITION	SWITCHED WITH LIGHTS
D-1	MOTORIZED DAMPER	FRACTIONAL	CONFIRM	15A / 1P	2 #12	STORAGE ADDITION	
HRV-1	HEAT-RECOVERY VENTILATOR	100W	120V	15A / 1P	2 #12	WOMEN'S LOCKER RM	INTERLOCKED WITH LIGHTING. SEE MECHANICAL FOR CONTROLS.
DH-1	PRE-HEAT DUCT HEATER	2.5kW	240V / 1PH	15A / 2P	2 #12	WOMEN'S LOCKER RM	
DH-2	TEMPERING DUCT HEATER	1.5kW	240V / 1PH	15A / 2P	2 #12	WOMEN'S LOCKER RM	
UH-1,2	UNIT HEATERS	2.5A	120V	15A / 1P	2 #12	STORAGE ADDITION	
HWT	HOT WATER TANK	3kW	240V / 1PH	20A / 2P	2 #12	LUNCHROOM	RELOCATED
LS-1	LIFT PUMP	10A	120V	15A / 1P	2 #12	WOMEN'S LOCKER RM	ON RECEPTACLE
OH	OVERHEAD DOOR OPENER	3/4HP	240V / 1PH	15A / 2P	2 #12	STORAGE ADDITION	CONFIRM ELECTRICAL REQUIREMENTS. WIRE CONTROLS AS PER OWNER'S REQUIREMENTS.
	MOTORIZED SHADE	FRACTIONAL	120V	15A / 1P	2 #12	SKYLIGHT	WIRE CONTROLS AS PER OWNER'S REQUIREMENTS.
WF-1	WATER COOLER	3.8A / 280W	120V	15A / 1P	2 #12	LUNCHROOM	ON RECEPTACLE

NOTES:
MATCH BREAKER AND WIRE SIZES TO ACTUAL NAMEPLATE RATINGS OF EQUIPMENT.
PROVIDE LOCAL DISCONNECTS TO CODE.

HEATING SCHEDULE

TYPE	DESCRIPTION	KW	VOLTS/PH	BREAKER	CONDUCTOR	NOTES
BB-1	BASEBOARD HEATER OUELLET OFM1000	1kW	240V/1PH	15A 2P	2 #12	C/W BUILT-IN THERMOSTAT
FF-3	FORCE FLOW HEATER OUELLET OAC03000	3kW	240V/1PH	20A 2P	2 #12	C/W BUILT-IN THERMOSTAT
HP-1	RADIANT HEAT PANEL QMARK CP-371	375W	120V	15A / 1P	2 #12	LINE VOLTAGE WALL THERMOSTAT
HP-2	RADIANT HEAT PANEL QMARK CP-751	750W	120V	15A / 1P	2 #12	LINE VOLTAGE WALL THERMOSTAT



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2	RE-ISSUED FOR TENDER	22 JUN 2015	JJD
1	ISSUED FOR TENDER	12 JUN 2015	JJD
0	ISSUED FOR CONSTRUCTION	1 JUN 2015	JJD
NO	REVISION	DATE	BY

Project
TRANSPORTATION MANAGEMENT
CENTRE RENOVATIONS
821 ELGIN AVE., WINNIPEG, MANITOBA

Sheet Title
SCHEDULES

Date
1 JUN 2015
By
TD
Project No.
14-131

Sheet No.
E-6/R-2