

PANEL SCHEDULE										
Panel 'P-100'										
DESCRIPTION	LOAD	BKR	CCT	A	B	C	CCT	BKR	LOAD	DESCRIPTION
30kVA Transformer PTR-1		40A	1	*			2	60A		Panel P-200
3/C #8 Teck		3P	3	*			4	3P		
			5	*			6			
Make Up Air Unit W-795-MAU	3HP	15A	7	*			8	15A	9kW	Hot Water Tank W-702-HWT-2
3/C #12 Teck		3P	9	*			10	3P		3/C #12 Teck
			11	*			12			
Welding Receptacle		60A	13	*			14	15A		Spare
		3P	15	*			16	3P		
			17	*			18			
Exhaust Fan W-796-EF	1.5HP	15A	19	*			20	150A		Panel P-100 Main Breaker
3/C #12 Teck		3P	21	*			22	3P		
			23	*			24			
Space			25	*			26			Space
			27	*			28			
			29	*			30			

Voltage: 600V/3Ø/3 wire Feeder: 3/C # 1/0 Teck
 Mains: 225A Main Breaker: 100A-3P
 Location: Chemical Building Power Source: Sludge Dewatering MCC 2WB
 Mounting: Surface

PANEL SCHEDULE										
Panel 'PA'										
DESCRIPTION	LOAD	BKR	CCT	A	B	C	CCT	BKR	LOAD	DESCRIPTION
Heat Trace		15GFI	1	*			2	15A	3	Receptacles
Heat Trace		15GFI	3	*			4	15A	2	Receptacles
Marshalling Panel		15A	5	*			6	15A	-	Spare
Marshalling Panel		15A	7	*			8	15A	-	Spare
Marshalling Panel		15A	9	*			10	15A	20W	DHW Circ. Pump W-702-P-2
Fire Alarm Panel		15A	11	*			12	15A	300W	Glycol Circulating Pump W-795-P
Feed Pump W-740-FP	1/3HP	15A	13	*			14	15A		Motorized Dampers
VFD 4/C #10		3P	15	*			16	15A	1/3HP	Unit Heater W-797-UH
			17	*			18	15A	1/3HP	Unit Heater W-798-UH
Feed Pump W-750-FP	1/3HP	15A	19	*			20	15A	425W	Lighting - Night Lighting
VFD 4/C #10		3P	21	*			22	15A	455W	Lighting
			23	*			24	15A	350W	Exterior Lighting
Feed Pump W-760-FP	1/3HP	15A	25	*			26	15A	150W	Eye Wash W-702-EW-3
VFD 4/C #10		3P	27	*			28	15GFI	1	Receptacles - Exterior
			29	*			30	15A	400W	WV-705 Actuator Valve
Spare	-	15A	31	*			32	15A	400W	WV-706 Actuator Valve
Spare	-	15A	33	*			34	15A	400W	WV-715 Actuator Valve
Spare	-	15A	35	*			36	15A	400W	WV-725 Actuator Valve
Spare	-	15A	37	*			38	-	-	Space
Space	-	-	39	*			40	-	-	Space
Space	-	-	41	*			42	-	-	Space

Voltage: 120/208V/3Ø/4 wire Feeder: 4/C #3 Teck
 Mains: 225A Main Breaker: N/A
 Location: CHEMICAL STORAGE BUILDING Power Source: TRANSFORMER PTR-1
 Mounting: SURFACE

LUMINAIRE SCHEDULE							
Type	Manufacturer	Catalogue No.	Voltage	No.	Lamps	Mounting	Remarks
A	Lithonia Lighting	DMW 2 32 AR 120 GEB10IS	120	2	T8	Chain suspended	
A1	Lithonia Lighting	DMW 2 32 AR 120 GEB10IS	120	2	T8	bracket mounting	bracket supplied by contractor
A2	Lithonia Lighting	DMW 2 32 AR 120 GEB10IS	120	2	T8	bracket mounting	c/w Low temperature ballast bracket supplied by contractor
B	Lithonia Lighting	TWR1175M TB LPI CSA	120	1	175W MH	Wall Mounted	
B1	Lithonia Lighting	TWR1100M TB LPI CSA	120	1	100W MH	Wall Mounted	C/W Built-in Photocell
C	Lithonia Lighting	TWR2250MTB LPI CSA	120	1	250W MH	Wall Mounted	C/W Built-in Photocell
D	Appleton	KPSH10150J5	120	1	100W MH	Stanchion Mtd	Mounted on top platform, attach to hand rail.
E	Woodhead Canada	R45-13G	120	1	13W low Temp. Fluor.	Wall Mounted	Cord Reel, 10700M, 3/C#16 cable mounted 1m above floor. Switch at reel.
F	Keen-Widelite	706P100SL-E-TA100-1-4CP-715 c/w 100WMMH Lamp	120	1	100W MH	Pendant Mounted	Provide safety chain option 'SC'
G	Lumacell	RS12W WP12V18W Black	12V DC	2	18W Tung.	Wall Mounted	mounted 300mm above door frame
X	Lumacell	LER3 500 WH CW	120		LED	Wall Mounted	C/W Ammeter/Voltmeter/Cabtire

PANEL SCHEDULE										
P-200										
DESCRIPTION	LOAD	BKR	CCT	A	B	C	CCT	BKR	LOAD	DESCRIPTION
Transformer PTR-2	30kVA	40A	1	*			2	15A	5HP	Make-up Air Unit W-790-MAU
		3P	3	*			4	3P		3/C#12 Teck
			5	*			6			
Exhaust Fan W-791-EF	1.5HP	15A	7	*			8	15A	9kW	Hot Water Tank W-702-HWT-1
3/C#12 Teck		3P	9	*			10	3P		3/C#12 Teck
			11	*			12			
			13	*			14			
			15	*			16			
			17	*			18			
Welding Receptacle		60A	19	*			20			
		3P	21	*			22			
			23	*			24			
			25	*			26	60A		Panel P-200 Main Breaker
			27	*			28	3P		
			29	*			30			

Voltage: 600V/3Ø/3W Feeder: 3/C # 6 Teck
 Mains: 225A Main Breaker: 60A-3P
 Location: RAILCAR SHELTER Power Source: PANEL P-100
 Mounting: SURFACE

PANEL SCHEDULE										
Panel 'PB'										
DESCRIPTION	LOAD	BKR	CCT	A	B	C	CCT	BKR	LOAD	DESCRIPTION
Lighting	800W	15A	1	*			2	15A	2	Receptacles
Lighting	800W	15A	3	*			4	15A	2	Receptacles
Lighting - Exterior	600W	15A	5	*			6	15A	150W	Eye Wash W-702-EW-1
Radiant Heater W-792-RH	2.6A	15A	7	*			8	15A	150W	Eye Wash W-702-EW-2
Radiant Heater W-793-RH	2.6A	15A	9	*			10	15A	350W	Lighting - Night Lighting
Portable Light	15W	15A	11	*			12	15A		Motorized Dampers
Lighting - Exterior	750W	15A	13	*			14	15A	400W	Valve Actuator W-V-695
Heat Trace	350W	15GFI	15	*			16	15A	20W	DHW Circ. Pump W-702-P-1
Space	-	-	17	*			18	15A		Spare
Overhead Door	1HP	15A	19	*			20	15A		Spare
3/C #12 Teck		3P	21	*			22	15A		Spare
			23	*			24	-	-	Space

Voltage: 120/208V/3Ø/4 wire Feeder: 4/C #3 Teck
 Mains: 225A Main Breaker: N/A
 Location: RAILCAR SHELTER Power Source: TRANSFORMER PTR-2
 Mounting: SURFACE

MOTOR SCHEDULE																			
MOTOR		STARTER					POWER												
EQUIP. NO.	DESCRIPTION	EQUIP. LOAD	VOLT/PH	SIZE	TYPE	MAN.	MAG.	S/S	PL	H.O.A.	OVERCUT DEVICE	LOCATION	PANEL	CCT.	FEEDER	CAP. SIZE	DISC. TYPE	DETAIL SCHEMATIC	REMARKS
W-795-MAU	Make Up Air	3HP	600/3	1	Mag				*	*	15A-3P	Chemical Bld	P-100	7, 9, 11	3/C#12 Teck		30A		
W-790-MAU	Direct Fired Make Up Air	5HP	600/3	1	Mag				*	*	15A-3P	Railcar Shelter	P-200	2, 4, 6	3/C#12 Teck		30A		
W-796-EF	Exhaust Fan	1.5HP	208/3						*	*	15A-3P	Chemical Bld	PA	8, 10, 12	4/C#12 Teck		30A		VFD
W-791-EF	Exhaust Fan	1.5HP	208/3	1	Mag				*	*	15A-3P	Railcar Shelter	PB	13, 15, 17	3/C#12 Teck		30A		2 Speed Magnetic Starter
W-797-UH	Unit Heater Gas fired	1/12HP	120/1						*	*	15A-1P	Chemical Bld	PA	16	2/C#12 Teck		15A		Thermostat/auto/on fan switch supplied
W-798-UH	Unit Heater Gas fired	1/12HP	120/1						*	*	15A-1P	Chemical Bld	PA	18	2/C#12 Teck		15A		Thermostat/auto/on fan switch supplied
W-792-RH	Infrared Heater Fan	1/12HP	120/1						*	*	15A-1P	Railcar Shelter	PB	5	2/C#12-20mm C		15A		Provide 15A receptacle
W-793-RH	Infrared Heater Fan	1/12HP	120/1						*	*	15A-1P	Railcar Shelter	PB	7	2/C#12-20mm C		15A		Provide 15A receptacle
W-740-FP	Chemical Feed Pump	1/2HP	208/3						*	*	15A-3P	Chemical Bld	PA	13, 15, 17	4/C#12 Teck				VFD
W-750-FP	Chemical Feed Pump	1/2HP	208/3						*	*	15A-3P	Chemical Bld	PA	19, 21, 23	4/C#12 Teck				VFD
W-760-FP	Chemical Feed Pump	1/2HP	208/3						*	*	15A-3P	Chemical Bld	PA	25, 27, 29	4/C#12 Teck				VFD
W-702-P-1	DHW Circulating Pump	20W	120/1						*	*	15A-1P	Railcar Shelter	PB	10	2/C#12 Teck				
W-702-P-2	DHW Circulating Pump	20W	120/1						*	*	15A-1P	Chemical Bld	PA	10	2/C#12 Teck				
W-795-P	Glycol Circulating Pump	300W	120/1						*	*	15A-1P	Chemical Bld	PA	12	2/C#12 Teck				Controlled by outdoor temperature sensor
WV-705	Valve Actuator	400W	120/1						*	*	15A-1P	Chemical Bld	PA	32	2/C#12 Teck				
WV-706	Valve Actuator	400W	120/1						*	*	15A-1P	Chemical Bld	PA	34	2/C#12 Teck				
WV-715	Valve Actuator	400W	120/1						*	*	15A-1P	Chemical Bld	PA	36	2/C#12 Teck				
WV-725	Valve Actuator	400W	120/1						*	*	15A-1P	Chemical Bld	PA	38	2/C#12 Teck				
WV-695	Valve Actuator	400W	120/1						*	*	15A-1P	Railcar Shelter	PB	16	2/C#12 Teck				



B.M. ELEV.	
DESIGNED BY	GSN
CHECKED BY	PS
DRAWN BY	ERC
APPROVED BY	D. TANIGUCHI
SCALE:	N.T.S.
RELEASED FOR CONSTRUCTION BY:	K. MARTENS
00 ISSUED FOR TENDER	05/12/02
NO. REVISIONS	DATE BY
DATE	2005/08/10
DATE	05/12/02

EarthTech
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ENGINEER'S SEAL
ORIGINAL SIGNED BY
P. STRYK
2005/12/02
CONSULTANT DRAWING NO. CE1.02

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

NEWPCC CENTRATE NUTRIENT TREATMENT PHOSPHORUS REMOVAL FACILITY
CONTRACT No. 1

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