

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				
<b>Spare</b>	15A	19	*				20	150A		Panel P-100 Main Breaker	
		21	*				22	3P			
<b>Spare</b>	3P	23	*				24				
		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		15GF1	1	*			2	15A	3	Receptacles	
Heat Trace		15GF1	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	15GF1	1	Receptacles - Exterior	
			29	*			30	15A	400W	WV-705 Actuator Valve	
<b>Exhaust Fan W-796-EF</b>	1.5HP	15A	31	*			32	15A	400W	WV-706 Actuator Valve	
<b>VFD 4/C #10 Teck</b>		3P	33	*			34	15A	400W	WV-715 Actuator Valve	
			35	*			36	15A	400W	WV-725 Actuator Valve	
			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	Lamps		Mounting	Remarks
				No.	Type		
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	RI45-13G	120	1	13W low	Wall Mounted	Cord Reel, 10700M, 3/C#16 cable Temp. Floor.
F	Keen-Widelite	706P100SL-E-T-HA 100-1-	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/Volmeter/Cabtire

PANEL SCHEDULE Panel '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				
<b>Spare</b>	15A	7	*				8	15A	9kW	Hot Water Tank W-702-HWT-1	
		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	15GF1	15	*			16	15A	20W	DHW Circ. Pump W-702-P-1	
Space			17	*			18	15A		Spare	
Overhead Door	1HP	15A	19	*			20	15A	1.5HP	Exhaust Fan W-791-EF	
3/C #12 Teck		3P	21	*			22	3P		3/C#10 Teck	
			23	*			24				
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																		
EQUIP. NO.	DESCRIPTION	MOTOR				STARTER				OVERC.U. DEVICE	LOCATION	PANEL	CCT.	FEEDER	POWER		DETAIL SCHEMATIC	REMARKS
		EQUIP. LOAD	VOLT/PH	SIZE	TYPE	MAN.	MAG.	S/S	PL						H.O.A.	CAP. SIZE		
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	31, 33, 35	4/C#10 Teck	30A		VFD	
W-791-EF	Exhaust Fan	1.5HP	208/3	1	Mag			*	*	15A-3P	Railcar Shelter	PB	20, 22, 24	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	7	2/C#12-20mm C	15A		Provide 15A receptacle	
W-793-RH	Infrared Heater Fan	1/12HP	120/1							15A-1P	Railcar Shelter	PB	9	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	16	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	30	2/C#12 Teck				
WV-706	Valve Actuator	400W	120/1							15A-1P	Chemical Bld	PA	32	2/C#12 Teck				
WV-715	Valve Actuator	400W	120/1							15A-1P	Chemical Bld	PA	34	2/C#12 Teck				
WV-725	Valve Actuator	400W	120/1							15A-1P	Chemical Bld	PA	36	2/C#12 Teck				
WV-695	Valve Actuator	400W	120/1							15A-1P	Railcar Shelter	PB	16	2/C#12 Teck				

  
Certificate of Authorization  
Earth Tech Canada Inc.  
No. 730 Expiry: April 30, 2006

B.M. ELEV.			
NO.	REVISIONS	DATE	BY
01	611-2005 ADDENDUM 1	06/01/12	ERC
00	ISSUED FOR TENDER	05/12/2	ERC



DESIGNED BY	GSN	CHECKED BY	PS
DRAWN BY	ERC	APPROVED BY	D. TANIGUCHI
SCALE:	N.T.S.	RELEASED FOR CONSTRUCTION BY:	K. MARTENS
NO.	DATE	DATE	DATE

ENGINEER'S SEAL	
ORIGINAL SIGNED BY	P. STRYK
DATE	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	CITY FILE NUMBER
	SHEET OF

ELECTRICAL PANEL, LIGHTING AND MOTOR SCHEDULES	CITY DRAWING NUMBER
	<b>1010F-D-E0001-001-01-D</b>