



BILL OF MATERIAL				
ITEM	DESCRIPTION	MANUFACTURER	PART NUMBER	QUANTITY
1	TYPE 12 ENCLOSURE (72x36x24)	HOFFMAN	A72H3724FS3PT	1
2	FULL SIZE MOUNTING PANEL	HOFFMAN	A72P36F1	1
3	LAPTOP FOLDING SHELF	HOFFMAN	ACSHELF18	1
4	SIDE MOUNT PANEL	HOFFMAN	72SMP24	2
5	FLUORESCENT LIGHT KIT	HOFFMAN	ALF16D18R	1
6	DOOR SWITCH	HOFFMAN	ALFSWD	1
7	FLUORESCENT LIGHT BULB	HOFFMAN	F15T8	1
8	12 SLOT BACKPLANE	SCHNEIDER ELECTRIC	BMX XBP 1200	1
9	POWER SUPPLY: 36W, STANDARD 120VAC POWER SUPPLY	SCHNEIDER ELECTRIC	BMX CPS 3500	1
10	MODICON M340 LEVEL 2 CPU, SERIAL & ETHERNET COMM. PORTS	SCHNEIDER ELECTRIC	BMX P34 2020	1
11	DISCRETE INPUT MODULE: 16 CHANNEL, 24VDC	SCHNEIDER ELECTRIC	BMX DDI 1602	1
12	DISCRETE OUTPUT MODULE: 16 CHANNEL, 24VDC	SCHNEIDER ELECTRIC	BMX DDO 1602	1
13	ANALOG INPUT MODULE: 8 CHANNEL, 4-20mA	SCHNEIDER ELECTRIC	BMX AMI 0810	1
14	ANALOG OUTPUT MODULE: 4 CHANNEL, 4-20mA	SCHNEIDER ELECTRIC	BMX AMO 0410	1
15	DIN RAIL T35 STEEL (SPECIFIC TO PLC)	SCHNEIDER ELECTRIC	-	AS REQ.
16	24VDC POWER SUPPLY - 240W (10A), 120VAC INPUT, 24VDC OUTPUT, SWITCH MODE POWER SUPPLY.	PHOENIX CONTACT	QUINT-PS-100-240A/C/24VDC/10	1
17	15A 1 POLE AND 1 NEUTRAL CIRCUIT BREAKER	WEIDMULLER	-	1
18	10A 1 POLE CIRCUIT BREAKER	WEIDMULLER	-	1
19	WSI 4 / 2 FUSED TERMINAL BLOCK	WEIDMULLER	1880420000	AS REQ.
20	WDU 2.5 FEED-THROUGH TERMINAL BLOCK	WEIDMULLER	1020000000	AS REQ.
21	WTR 2.5 KNIFE SWITCH TERMINAL BLOCK	WEIDMULLER	1855610000	AS REQ.
22	WPE 1.5 / ZZ PROTECTIVE EARTH TERMINAL	WEIDMULLER	1065000000	AS REQ.
23	WQB B / 24 CROSS CONNECTION STRIPS	WEIDMULLER	1579060000	AS REQ.
24	SCHT 5S PROTECTIVE STRIPS	WEIDMULLER	1631930000	AS REQ.
25	STR 5S PROTECTIVE STRIPS	WEIDMULLER	1631940000	AS REQ.
26	WEW 35 / 2 END BRACKET	WEIDMULLER	1061200000	AS REQ.
27	WAP END PLATE (WDU'S)	WEIDMULLER	1050000000	AS REQ.
28	WAP END PLATE (WSI'S)	WEIDMULLER	1880450000	AS REQ.
29	WS 12 / 5 TERMINAL MARKERS, CUSTOM NUMBERS	WEIDMULLER	1609870000	AS REQ.
30	WS 12 / 6 TERMINAL MARKERS, CUSTOM NUMBERS	WEIDMULLER	1609910000	AS REQ.

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31	DIN RAIL TS35 SLOTTED	WEIDMULLER	514500000	AS REQ.
32	120VAC RAIL MOUNT RECEPTACLE	WEIDMULLER	9915490000	1
33	GROUND BAR NSch 15x2 80A	WEIDMULLER	280200000	1
34	PRESSURE PIECE DKSUE	WEIDMULLER	280100000	LOT
35	CLAMPING SCREW BFSC M5x8	WEIDMULLER	296700000	LOT
36	BUSBAR HOLDER BASE SH1	WEIDMULLER	401460000	1
37	BUSBAR HOLDER CLIP SH1	WEIDMULLER	635960000	1
38	GROUND LUG #2 / 0	T&B	ADR21	2
39	NOT USED			
40	WIRE DUCT 3"x4"	PANDUIT	G3X4L06	AS REQ.
41	3" WIRE DUCT COVER	PANDUIT	C3L66	AS REQ.
42	WIRE DUCT 2"x4"	PANDUIT	C2X4L66	AS REQ.
43	2" WIRE DUCT COVER	PANDUIT	C2L66	AS REQ.
44	1A GLASS FUSE	BUSSMANN	GMA-1-R	AS REQ.
45	2A GLASS FUSE	BUSSMANN	GMA-2-R	AS REQ.
46	4A GLASS FUSE	BUSSMANN	GMA-4-R	AS REQ.
47	5A GLASS FUSE	BUSSMANN	GMA-5-R	AS REQ.
48	10A GLASS FUSE	BUSSMANN	GMA-10-R	AS REQ.
49	15A GLASS FUSE	BUSSMANN	GMA-15-R	AS REQ.
50	1500VA 120VAC UPS	POWERWARE	9130 1500	1
51	RELAY OUTPUT CARD FOR THE UPS	POWERWARE	1014018	1
52	INTRINSICALLY SAFE BARRIER, 2 CHANNEL, RELAY OUT, 24VDC	TURCK	IM1-22EX-R	2
53	B PORT POE SWITCH, WITH MM LC FIBER	NTRON	TBD	1
54	HMI	MAGELUS	HMGIT05310	1

NAMEPLATE SCHEDULE				
ITEM	TEXT DESCRIPTION	COLOUR (BKGD/LTR)	SIZE (WxH)	QTY.
A	LEACHATE BUILDING / CONTROL PANEL	WHT/BLK	90x75	1
B	WARNING / VOLTAGES FROM MORE / THAN ONE SOURCE	RED/WHT	125x75	1
C	LAPTOP ONLY	YEL/BLK	75x25	1

1 CONTROL PANEL – FRONT VIEW  
NO SCALE

2 CONTROL PANEL – SIDE VIEW  
NO SCALE

3 CONTROL PANEL – LEFT SIDE VIEW  
NO SCALE

4 CONTROL PANEL – BACK PAN  
NO SCALE

5 CONTROL PANEL – RIGHT SIDE VIEW  
NO SCALE

### WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:  
1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.  
2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.  
SEE PROVINCIAL REGULATION 140/92 FOR DETAILS



### METRIC

WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

LOCATION APPROVED UNDERGROUND STRUCTURES			B.M. ELEV.		
SUPV. U/G STRUCTURES COMMITTEE					
DATE					
NOTE:					
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.					
NO.	REVISIONS	DATE	BY		
3	ISSUED FOR TENDER	16.03.09	D.R.		
2	ISSUED FOR TENDER REVIEW	16.03.07	D.R.		
1	ISSUED FOR 95% REVIEW	16.01.29	D.R.		



DESIGNED BY	S.L.	CHECKED BY	D.R.
DRAWN BY	E.G.D.	APPROVED BY	S.K.B.
HOR. SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION:	
VERTICAL:			
DATE	2016.01.12		

ENGINEER'S SEAL	
TENDER NO.	952-2015

**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT  
**NORTH END SEWAGE TREATMENT PLANT (NEWPC)**  
 HAULED LIQUID WASTE FACILITY PHASE II UPGRADE  
 LEACHATE SAMPLING BUILDING  
 PLC CABINET X701  
 CITY DRAWING NUMBER  
**I-OIOIX-A00IO-001**  
 SHEET 14 OF 20