PANE	L ID:		, AMI	PS:	VOLTS:			PHASI	E:	WIRE:		SURF. MOUNT X TOP FED X	
F	PNL-S710E (WAS PN	L-A	.)   2:	25	600/	347		3	Ρ	'	4	FLUSH MOUNT BOT. FED	
DESC	RIPTION:								LOC	CATION:	ELECT	RICAL ROOM	
MFG	/ MODEL: WESTINGHOUSE PL-2								INTE	ERRUPTIN	G RATING	: 10 KA	
MAIN	BREAKER: N/A								INST	T. SETTIN	IGS:	N/A	
сст.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	À I I B I I C	LOAD (VA)	BRI		WIRE (AWG)	NOTE	DESCRIPTION	сст.
1	SPACE					1	- 2750	1:	5	12		LIGHTING LOWER FLOOR EAST	2
3	SPACE					<b>1</b> ++-	- 3050	1:	5	12		LIGHTING LOWER FLOOR WEST & EMG. LIGHTS UPS ROOM	<b>V</b> 4
5	SPACE					1₩	1860	15	5	12		LIGHTING SHOP	6
7	SPACE					] <b>+</b> +⊦	- 2825	1:	5	12		LIGHTING UPPER FLOOR WEST & EMG. LIGHTS 2NI	0 8
9	SPACE					<b>│</b> ┼┿┤	- 2800	1:	5	12		LIGHTING UPPER FLOOR	10
11	SPACE					1#	2900	1:	5	12		LIGHTING UPPER FLOOR	12
13	SPACE					<b>1+</b> +−	- 650	1:	5	12		TUNNEL LIGHTING	14
15	SPACE					1++1	- 266						16
17	SPACE					1++4	266	<b>7</b> 1:	5	12		UNIT HEATER, UH-1	18
19					1180	<b>1+</b> +−	- 266						20
21	PUMP P-1		12	15	1180	1++1	- 500						22
23					1180	144	500	<b>│</b> 1:	5	12		EXHAUST FAN, EF-1	24
25					1180	1∔+-	- 500						26
27	PUMP P-2		12	15	1180	1++1	- 500						28
29					1180	144	500	<b> </b>	5	12		EXHAUST FAN, EF-2	30
31	SPACE					1 +	- 500					·	32
33	SPACE					1	-					SPACE	34
35	SPACE					144	-					SPACE	36
37					2190	1∔+-	-					SPACE	38
39	XFMR-S711E (UPS)	2	6	40	2190	1++1	- 200	1:	5	12	LKON	EXIT LIGHTS 2ND FOOR	40
41	(WAS T2)				2190	144	200	1:	5	12	LKON	EXIT LIGHTS MAIN FLOOR	42
TOTAL	CONNECTED LOAD: 34.7 KVA		PHASE	۸٠	12.0 K\	/ <u>/</u>	34.7 A				NOTE LE	GEND:	
	34.7 NVA											CI ARC FAULT CIRCUIT INTERRUPTOF	
			PHASE		11.9 K\	/A	34.2 A					CI GROUND FAULT CIRCUIT INTERRUI	PTOR
			PHASE	C:	10.8 K\	/A	31.1 A					ON LOCKED ON BREAKER OR RED LOCKED ON BREAKER	
NOTES	S:												
1	. TOTAL PANEL MEASURED LOAD 2	013-0	2-13	16.5, 1	6.7, 17	.2 A.							
2	. UPS LOAD BASED ON 1.2 x PEA							RED	LOA	AD ON	2013	-02-13.	

PANEL		^	AMI		VOLTS:			PHASE:	WIRE:		SURF. MOUNT X TOP FED	X
Ρ	NL-S712U (WAS PN	IL-C	)   2:	25	208/	120		3 P	'	4	FLUSH MOUNT BOT. FED	
DESCR	UPS PANELBOARD		·					LOC	CATION:	UPS F	ROOM	
MFG /	' MODEL: WESTINGHOUSE CANADA							INTI	ERRUPTIN	G RATING	<sup>3:</sup> 10 KA	
MAIN	BREAKER: N/A							INS	T. SETTIN	IGS:	N/A	
сст.	DESCRIPTION	NOTE	WIRE	BRKR	LOAD	À	LOAD	BRKR	WIRE	NOTE	DESCRIPTION	П
1	COMPUTER RECEPTACLES	1	(AWG)	AMPS 30	(VA) 300	111	(VA) - 500	AMPS 15	(AWG)		FIRE ALARM PANEL	$\dashv$
3	COMPUTER RECEPTACLES			15	300	$+\prod$	600	15			COMPUTER RECEPTACLES	_
5	COMPUTER RECEPTACLES				300	$+ \Pi \Pi$	900					_
7	COMPUTER RECEPTACLES			15 15	300	$+ \prod$	- 450	15 15			COMPUTER RECEPTACLES	
<u> </u>	COMPUTER RECEPTACLES			15	300	$\exists   extstyle  extstyle $	- 200	15			BOILER CONTROLS	_
11	COMPUTER RECEPTACLES			15	300	+ TT	600	15			COMPUTER RECEPTACLES—2ND FLOOR NE OFFI	ICE
13	COMPUTER RECEPTACLES			15	300	$+\Pi\Pi$	800	15			CONFERENCE ROOM POWER	ICE
15 15	COMPUTER RECEPTACLES			15	300	$+\prod$		15			CONFERENCE ROOM POWER	_
17	COMPUTER RECEPTACLES			15	300	$+ \prod$	[	15			CONFERENCE ROOM POWER	
19	COMPUTER RECEPTACLES			15	600	$+ \prod$	[	15			CONFERENCE ROOM POWER	
21	CHARGER POWER BAR			15	600	$+\prod$		15			CONFERENCE ROOM POWER	
23	CONTROL ROOM POWER			15	300	$+ \prod$	[	15			CONFERENCE ROOM POWER	_
25 25	CONTROL ROOM POWER			15	300	$+\Pi\Pi$		15			SPARE	
	CONTROL ROOM POWER			15	300	$\exists  \prod$		15			SPARE	_
27 29	CONTROL ROOM POWER			15	300	$+ \top \top$	[	15			COMPUTER PLUG TELESAVE	_
29 31	CONTROL ROOM POWER			15	300	$\exists \Pi$	<u> </u>	15			SPARE	
					300	ΗTΠ		15			SECURITY SYSTEM	_
33	CONTROL ROOM POWER			15		$+ \top $	[	30				_
35	CONTROL ROOM POWER			15	300	$+\Pi\Pi$					SCADA BACKUP SERVER	
37	CONTROL ROOM POWER			15	300	┦┇	7500	30			SCADA BACKUP SERVER	
	MECHANICAL ROOM TELESAVE HUB			15 15	50 100	$+  extstyle{\intercal}  extstyle{\intercal}$	3500	70			PNL-S713U	
	ENT UNIT PLUG  CONNECTED LOAD:						2200	70		NOTE LE	(WAS PNL-C2)	
OTAL	- KVA		PHASE	A:	– K\	VA	– A				OI ARC FAULT CIRCUIT INTERRUPTO	ΛÞ
			PHASE	B:	– K\	VA	– A			GF(		
			PHASE	C:	– K'	VA	- A			LKC	ON LOCKED ON BREAKER OR RED LOCKED ON BREAKER	Ο.
IOTES	:											_
1.	UPS OUTPUT CURRENT MEASURI											

PANEL	NL-S713U (WAS PNL	-C2	AMI 2 ) 1:		VOLTS: 208/	'120		PHAS 2	ie: P	WIRE:	3	SURF. MOUNT X	TOP FED BOT. FED	X		
	RIPTION: UPS PANELBOARD	/		<u> </u>	LOCATION: UPS ROOM											
MFG / MODEL: CUTLER HAMMER CCPL108										INTERRUPTING RATING: 10 KA						
MAIN	BREAKER: NONE					INST.	SETTIN	GS:	N/A							
сст.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	L1     L2	LOAD (VA)	- 1		WIRE (AWG)	NOTE	DESCRIPTION		сст.		
1	ROOM 217 WIRE DUCT PLUGS		12	15	500	1+-	1500	3	0	10		ROOM 217 WIRE DUCT PI	LUGS	2		
3						<b>│</b>	700	2	:0	10		ROOM 217 WIRE DUCT PI	LUGS	4		
5						<b>│</b>	1500	3(	0	10		ROOM 217 WIRE DUCT PI	LUGS	6		
7						$\rceil + +$	1500	3	0	10		ROOM 217 WIRE DUCT PI	LUGS	8		
							29.2 A 18.3 A				NOTE LEGEND:  AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR LOCK LOCKED BREAKER					
NOTES	S:															

NL—S702 (WAS PNI  ON: 208/120 PANELBOARD  ODEL: WESTINGHOUSE  OKAKER: N/A  DESCRIPTION  ONTROL ROOM RECEPTACLES  OWER BAR CHARGERS  FICE RECEPTACLES  FICE RECEPTACLES  ASHROOM RECEPTACLES  TCHEN FRIDGE  TCHEN RECEPTACLES  OUSEKEEPING RECEPTACLE  HOTO COPIER	NOTE	WiRE (AWG) 12 12 12 12	BRKR AMPS 15 15	LOAD (VA) 300	IZO	LOAD	II	LOCATION: NTERRUPTIN NST. SETTIN	g rating	FLUSH MOUNT   BOT. FED   RICAL ROOM : N/A	<u></u>
ODEL: WESTINGHOUSE  AKER: N/A  DESCRIPTION  DINTROL ROOM RECEPTACLES  DINTROL ROOM RECEPTACLES  DIVER BAR CHARGERS  FICE RECEPTACLES  ASHROOM RECEPTACLES  TCHEN FRIDGE  TCHEN RECEPTACLES  DUSEKEEPING RECEPTACLE  LERK RECEPTACLE	NOTE	(AWG) 12 12 12 12 12	AMPS 15 15	(VA)	Ä I I			nterruptin NST. Settin	g rating	:	
DESCRIPTION  DESCRIPTION  DITROL ROOM RECEPTACLES  DITROL ROOM RECEPTACLES  DIVER BAR CHARGERS  FICE RECEPTACLES  ASHROOM RECEPTACLES  TCHEN FRIDGE  TCHEN RECEPTACLES  DUSEKEEPING RECEPTACLE  LERK RECEPTACLE	NOTE	(AWG) 12 12 12 12 12	AMPS 15 15	(VA)	A       B C		ll	nst. Settin			
DESCRIPTION  DESCRIPTION  DITROL ROOM RECEPTACLES  DIVER BAR CHARGERS  FICE RECEPTACLES  FICE RECEPTACLES  ASHROOM RECEPTACLES  TCHEN FRIDGE  TCHEN RECEPTACLES  DUSEKEEPING RECEPTACLE  LERK RECEPTACLE	NOTE	12 12 12 12 12	AMPS 15 15	(VA)	À       B C				GS:	N/A	
ONTROL ROOM RECEPTACLES ONTROL ROOM RECEPTACLES OWER BAR CHARGERS FICE RECEPTACLES ASHROOM RECEPTACLES TCHEN FRIDGE TCHEN RECEPTACLES OUSEKEEPING RECEPTACLE LERK RECEPTACLE	NOTE	12 12 12 12 12	AMPS 15 15	(VA)	A I I		BBK				
DNTROL ROOM RECEPTACLES DWER BAR CHARGERS FFICE RECEPTACLES ASHROOM RECEPTACLES TCHEN FRIDGE TCHEN RECEPTACLES DUSEKEEPING RECEPTACLE LERK RECEPTACLE		12 12 12 12	15 15			(VA)	AMPS		NOTE	DESCRIPTION	CC.
DWER BAR CHARGERS FICE RECEPTACLES FICE RECEPTACLES ASHROOM RECEPTACLES TCHEN FRIDGE TCHEN RECEPTACLES DUSEKEEPING RECEPTACLE LERK RECEPTACLE		12 12			1+11	500	15	<del></del>		UNIT HEATER, UH-3	2
FFICE RECEPTACLES FFICE RECEPTACLES ASHROOM RECEPTACLES TCHEN FRIDGE TCHEN RECEPTACLES DUSEKEEPING RECEPTACLE LERK RECEPTACLE		12		300	]+++	200	15	12		SPARE	4
FFICE RECEPTACLES ASHROOM RECEPTACLES TCHEN FRIDGE TCHEN RECEPTACLES DUSEKEEPING RECEPTACLE LERK RECEPTACLE			15	600	]	200	15	12		CUH-1	6
ASHROOM RECEPTACLES TCHEN FRIDGE TCHEN RECEPTACLES DUSEKEEPING RECEPTACLE LERK RECEPTACLE		40	15	750	<b>│</b> <del>∤</del> ┼┼	1000	15			HOUSEKEEPING RECEPTACLE	8
TCHEN FRIDGE TCHEN RECEPTACLES DUSEKEEPING RECEPTACLE LERK RECEPTACLE		12	15	450	<u></u>	800	15			MISCELLANEOUS RECEPTACLE	10
TCHEN RECEPTACLES DUSEKEEPING RECEPTACLE LERK RECEPTACLE		12	15	1200	<b>┤┼┼</b> ┿	1000	15			MISCELLANEOUS RECEPTACLE	12
DUSEKEEPING RECEPTACLE LERK RECEPTACLE		12	15	1000	<b>┤</b> ╄┼┼	1000	15	12		EXTERIOR RECEPTACLE	14
ERK RECEPTACLE		12	15	1200 1200		1200 1200	15	12		SPLIT COUNTER RECEPTACLE	18
		12	15	750	<b>│</b> <del>∤</del> ┼┼	1200	- 15	10		SPLIT COUNTER RECEPTACLE	20
HOTO COPIER		12	15	450	<b>1++</b> +	1200	7 15	12		SPLIT COUNTER RECEPTACLE	22
		12	20	1400	] +   +	1000	15			DISHWASHER	24
FFICE RECEPTACLES		12	15	600	] <del>   </del>	1000	15	12		REFRIGERATOR	26
FFICE RECEPTACLES		12	15	600	] <del>       </del>	300	15			BOARDROOM RECEPTACLE	28
LUEPRINT ROOM RECEPTACLES		12	15	400	<b>│</b> ┼┼┿	300	15			BOARDROOM RECEPTACLE	30
LUEPRINT ROOM RECEPTACLES		12	15	1200	<b>│</b> <del> </del>	300	15			BOARDROOM RECEPTACLE	32
L. BACKBOARD RECEPTACLE		12	15	1200	<u></u>	300	15			BOARDROOM RECEPTACLE	34
INNEL RECEPTACLE		12	15	300	<u> </u>	400	15			HOUSEKEEPING RECEPTACLE	30
PARE		12	20		<b>│</b> <del>∤</del> ┼┼	1200	15			CUH-2	38
DUSEKEEPING RECEPTACLE		12	15	300	<u></u>	1200	15		GFCI	WASHROOM RECEPTACLE	40
PARE		12	15		<u> </u>	1200	15		GFCI	WASHROOM RECEPTACLE	42
ONTROL ROOM FRIDGE	1	14	15	1000	<b>│†</b> ┼┼	1200	15	12	GFCI	WASHROOM RECEPTACLE, MEN'S SOUTH	44
CTERIOR RECEPTACLE	GFCI	12	15	120	<u></u>	1200	15		GFCI	WASHROOM RECEPTACLE, MEN'S LOCKER SOUTH	_
					<u> </u>					·	_
	1				<b>│†</b> ┼┼				GFCI	<u> </u>	50
	1				<b>┤┼</b> ┿┼		_		1		5:
	1				<b>│</b> ┼┼ <b>┆</b>			$\rightarrow$	1		54
	1				<b>┤</b> †┼┼				1		50
	1	-			<b>│</b>				1		58
	1				<b>┤</b> ┼┼┆	200	30	10	1		60
	1				<b>┤†</b> ┼┼			1.0			6:
	1				<b>┤</b> ┼╋┼				1		64
	1				-  <b>           </b>	600	15	12		COMPUTER ROOM PLUGS	66
	1			1200	<b>- ↑</b>		٠,	,		DVII. 0707	68
	4			100			<sup>70</sup>	3		PNL-5/03	70
	'			120	$+\prod$	1000					-
PARE		12	15	1500	+		40	8	1	CONTROL ROOM RANGE	74
R COMPRESSOR, CAC-1	1	10	30		$+ \coprod$						78
					┤∭		15	14	1	CONTROL ROOM SPLIT RECEPTACLE, SOUTH WALL	8
ASEBOARD HEATER	1	12	15	200	<u> </u>	120	15	14	1	CONTROL ROOM SPLIT RECEPTACLE. NORTH WALL	82
PACE					<u> </u>	120				,	8
NNECTED LOAD: — KVA	F	PHASE	A:	– K\	VA	– A					
*****											
											īŪ
	ľ	HASE	· · · ·	- N	v / \	- A		I			
									LKC	OR RED LOCKED ON BREAKER	
									LKC	OR RED LOCKED ON BREAKER	—
LOADS ARE ASSUMED									LKC	OR RED LOCKED ON BREAKER	
	HAUST FAN EF—3 RKING RECEPTACLE ARE DRAGE ROOM RECEPTACLE ARE  COMPRESSOR, CAC—1  SEBOARD HEATER  ACE	HAUST FAN EF—3 RKING RECEPTACLE 1 ARE COMPRESSOR, CAC—1 1 SEBOARD HEATER 1 ACE	12   12   12   12   12   12   12   12	HAUST FAN EF-3	HAUST FAN EF-3	HAUST FAN EF-3	12	12	12	AUST FAN EF-3	Table   Tabl

PANEL	PNL-S703 (WAS PNL	.—BE	3) AMI	PS: 00	VOLTS: 208/	120			PHASE: 3 P	WIRE	: 4	SURF. MOUNT X TOP FED FLUSH MOUNT BOT. FED	X
	IPTION: 208/120 PANELBOARD								LOC	CATION:	SHOP	112	
MFG /	MODEL: WESTINGHOUSE CANADA								INT	ERRUPTIN	IG RATING	: 10 KA	
MAIN E	BREAKER: N/A								INS	t. Settin	NGS:	N/A	
CCT.	LOAD DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	À H	Ç	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	LOAD DESCRIPTION	ССТ
1						1	$\mp \Gamma$	600	15	12		SHOP RECEPTACLE	2
3	OVERHEAD DOOR		12	15		1++	+Г	600	15	12		SHOP RECEPTACLE	4
5						1#	╁┌	600	15	12		SHOP RECEPTACLE	6
7	SPARE			15		1∔+	+Г	400	15	12		UNIT HEATER, UH-2	8
9	DRYER		10	30			$\downarrow$ $\vdash$	135 135	15	12		D.H.W HEAT TRACING	10 12
13			T			1∔↓	41		15	12	GFCI	OUTSIDE RECEPTACLE, FRONT	14
15	HOT WATER TANK		10	30		1 🕌	41		15	12		OUTSIDE RECEPTACLE, REAR	16
17	SPACE					1#	╁┞		15	12		SUMP PUMP RECEPTACLE	18
19	SPACE					1∔1	41	4800					20
21	SPACE					1++	41	4800	30	10		WELDING OUTLET	22
23	SPACE					1#	╁┌	4800					24
TOTAL	CONNECTED LOAD: - KVA	1	PHASE	Δ.	– KV	 /Δ		– A			NOTE LE	GEND:	
	TCV/C		PHASE									CI ARC FAULT CIRCUIT INTERRUPTO	
					– KV							CI GROUND FAULT CIRCUIT INTERRU ON LOCKED ON BREAKER	JPTOR
			PHASE	C:	– KV	/A		– A				OR RED LOCKED ON BREAKER	
NOTES	:												
NOIES	•												

## NOTES

LOADS ARE DETERMINED FROM EXISTING DRAWING MCP-264.
 WHERE NOT SHOWN, EXISTING LOADS HAVE NOT BEEN CALCULATED.

## FOR REFERENCE ONLY

					•))	SNC-LAVALIN INC.  148 Nature Park Way Winnipeg, MB, Canada R3P 0X7	ENGINEER'S SEAL		THE CITY C		
					SNC+LAVALIN	204-786-8080	ORIGINAL DRAWING	Winnipeg	WATER AND WA	STE DEPARTI	MENT
					DESIGNED BY: V. ELIMBAN	CHECKED BY: C. REIMER	SEALED BY: C. J. REIMER	МС	PHILLIPS CONTROL (	ENTRE	
<b>APEGIN</b>					DRAWN BY: MJ. PERSSON	APPROVED BY: C. REIMER	SNC-LAVALIN INC. MEMBER #21968		PANEL SCHEDULES	5	
Certificate of Authorization					SCALE: NTS	RELEASED FOR CONSTRUCTION BY:	2013/08/13 REV. 00				
SNC-Lavalin Inc.					DATE: 2013/02/27	DATE:	TILV. 00	CITY DRAWING NUMBER	Т	SHEET RI	REV. SIZE
No. 4489	00 NO.	ISSUED FOR CITY USE REVISIONS	2013/08/08 DATE	VE CJR DESIGN CHECK	CONSULTANT NO.:				E0002	$0.01 \mid 0$	00 A1