PANEL	. ID:			AMF	PS:	VOLTS:				PHASE	:	WIRE:		SURF. MOUNT X TOP FED X			
	P۱	IL-1G		15	50	347/	600	٧		3	ø	4		FLUSH MOUNT BOT. FED	Ì		
DESCF	RIPTION:	NON-ESSENTIAL										LOCATION: GRIT ELECTRICAL ROOM					
MFG /	/ MODEL:	WESTINGHOUSE PL-3									INTERRUPTING RATING: 25 KA						
MAIN	BREAKER:	100A									INST. S	SETTING	GS:	N/A			
CCT.		DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	ÀIB		LOAD (VA)	BRK		VIRE AWG)	NOTE	DESCRIPTION	ССТ		
1	LIGHTING	PUMP WELL FLOOR		(/0)	15	1050W	+	Ť	600W	15	- + `			LIGHTING PUMP WELL RM. G101	2		
3		SERVICE FLOOR RM. G108			15	1400W	┧╁	4	900W	15				LIGHTING BLOWER RM. G115	4		
5		RM. G111 & G112			15	900W	┧╽	+	500W	15				LIGHTING CONTROL RM. G140	6		
7		RM. G102 & G103			15	1500	┧	4	1800W	15	-			LIGHTING MOTOR RM. G114	8		
9		SCREEN RM. G127			15	800	┧┼╅	4	1000W	15	-			LIGHTING STORAGE RM. G129	10		
11		SCREEN RM. G127			15	960	14	4	700W	15				LIGHTING MECHANICAL RM. G130	12		
13		SCREEN RM. G127			15	960	┧	4	800W	15				LIGHTING MECHANICAL RM. G130	14		
15		GRIT TANK WALKWAY RM. G137			15	900W	1 ↓ ↓	4	720	15	-			LIGHTING MECHANICAL RM. G130	16		
17		ELEVATOR MACH. RM. G131			15	200W	14	+	900W	15	_			LIGHTING ELECTRICAL RM. G116	18		
19		GALLARIES 1-3 RM. G117 & G134			15	900W	1∔1	4	700W	15	-			LIGHTING GALLERIES 2-3 RM. G138 & G139	20		
21		R LIGHTING		10	15	2400W	┧┼╅	4	1680	15	5			LIGHTING GRIT TANK RM. G138 & G139			
23	OUTDOOF	R LIGHTING		10	15	2600W	144	+		15	5			SPARE	24		
25	OUTDOOF	R LIGHTING		10	15	2200W	1∔1	+		15	5			SPARE	26		
27	SPARE				15		1 ╁	+		15	5			SPARE	28		
29	SPARE				15		144	+		15	5			SPARE	30		
31	SPARE				15		1∔	+		15	5			SPARE	32		
33	SPACE						│	+						SPACE	34		
35	SPACE						1++	+						SPACE	36		
37	SPACE						1∔1	+						SPACE	38		
39	SPACE						1 ┼	+						SPACE	40		
41	SPACE						1++	+						SPACE	42		
TOTAL	CONNECTE	C LOAD: KVA		PHASE	Δ.	k۷	/Δ	_	A				NOTE LE	GEND:			
														AFCI ARC FAULT CIRCUIT INTERRUPTOR			
		A (AVG)		PHASE		k٧			A					GFCI GROUND FAULT CIRCUIT INTERRUPT	OR		
		A (MAX)	F	PHASE	C:	k٧	Ά		Α				L	OCK LOCKED BREAKER			
NOTES 1		LOADS COPIED FROM EXISTING	DRAWING	GS EXC	CEPT FO	R THOSE	NOT	ED.									

PANEL ID:			AMI	PS:	VOLTS:				PHASE	:	WIRE:		SURF. MOUNT X TOP FED X
PNL-2G			1	50	347/0	600V	/	3		3ø 4		1	FLUSH MOUNT BOT. FED
DESCRIPTION: ESSENTIAL			•		•			•		LOCAT	TION:	•	GRIT ELECTRICAL ROOM
MFG / MODEL: WESTINGHOUSE	PRL3									INTER	RUPTING	G RATING	³ 25 KA
MAIN BREAKER: 40A, SERIES H	FD									INST.	SETTIN	GS:	N/A
CCT. DESCRIPTION		NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A I I B I I	Ç	LOAD (VA)	BRK AMF		WIRE (AWG)	NOTE	DESCRIPTION
1 LGTS PUMP WELL RM G10	& G108			15	692	+	+	700W	15	5			LIGHTING STAIRS G124 & G125
3 LGTS STAIRS G103, G107	& G109			15	700W] ┼┿	$+ \square$	700W	15	5			LIGHTING STAIRS G110 & G123
5 LGTS STAIRS G104 & G10	5			15	600W]	t [550	15				LGTS RM. G113, G115, G116 & G140
7 LGTS WET WELL RM G102	& G103			15	200] + -	$+$ \square	810	15	5			LGTS RM G114 & G122
9 LGTS RM G127, G129 & C	130			15	1140] ++	ΗL	888	15	5			LGTS RM G134,G135,G136,G138 & G139
11 EXTERIOR LIGHTING				15	300W	<u> </u>	1 ⊢	2000W					<u> </u>
13					2000W	│ ┿┼	ι ⊢	2000W	15	5			SUMP PUMP G561—SMP
15 SUMP PUMP G562-SMP				15	2000W	<u></u> │┼╋╴	╁┖	2000W					
17					2000W	! ††	✝└		15	5			VIEWING GALLERY
19 EXIT LIGHTS				15		! † ††	tμ						
21 EXIT LIGHTS				15		 †	✝⊢		15	5			ELEVATOR
23 SPARE				15			<u>† </u>						
TOTAL CONNECTED LOAD:	V A	F	PHASE	A:	k۷	Ά		Α				NOTE LE	
Α	(AVG)	F	PHASE	B:	k۷	Ά		Α					AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR
	(MAX)		PHASE		k۷			Α					LOCK LOCKED BREAKER
NOTES:	(1411/01)	<u>'</u>	- I/ (OL			, ,							

PANEI	. ID:		AMI	PS:	VOLTS:				PHASE:	WIR	E: [SURF. MOUNT X TOP FED	7
	PNL-3G		10	00	120/	208\	/		3ø		4	FLUSH MOUNT 🔲 BOT. FED 🗌	j
DESCI	RIPTION:								LC	OCATION:		GRIT ELECTRICAL ROOM	
MFG	/ MODEL:								IN	ITERRUPT	ING RATING		
MAIN	BREAKER: 100A								IN	IST. SETT	INGS:	N/A	
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	Ä I I B	C	LOAD (VA)	BRKR AMPS		NOTE	DESCRIPTION	CCT
1	PUMP WELL EXHAUST FAN			15	100W	+		600W	15	<u> </u>		RECEPTACLE PUMP WELL RM. G101	2
3	RECEPTACLE CONTROL RM. G140			15	800W	1+	+	600W	15			RECEPTACLE SERVICE FLOOR RM. G108	4
5	ELEVATOR PIT LOADS			15	350W]++	╁	1200W	15			RECEPTACLE MOTOR RM. G114	6
7	RECEPTACLE RM. G115 & G116			15	1200W]++	+	1200W	15			RECEPTACLE RM. G125, G126 & G127	8
9	RECEPTACLE RM. G122 & G127			15	1200W] +	+		15			SPARE	10
11	LIGHT & FAN G112 AND LIGHT RM. G11	1		15	150W]	┿	600W	15			LIGHITNG VIEWING GALLERY RM. G126	12
13	RECEPTACLE RM. G137, G138 & G139			15	800W] 	+	800W	15			RECEPTACLE RM. G134, G135 & G136	14
15	RECEPTACLE RM. G113 & G117			15	1000W	<u></u> │ │ ┿	+	500W	15			UNIT HEATERS RM. G127, G129 & G13	 16
17					1675W]	+	1000	15			SCREEN EXHAUST FAN G689-EF	18
19	DUCT HEATER G651-HC			20	1675W	│ ╋┼	+	600W	15			ELEVATOR EXHAUST FAN G691-EF	20
21					1675W	<u></u> │ ┤┿	+	600W	15			GRIT TANK EXHAUST FAN G690-EF	22
23	RECEPTACLE RM. G129 & G130			15	1000W]	╅	25W	15			BACKWASH FILTER G670-EF	24
25	OUTDOOR LIGHTING PHOTOCELL			15	100W	 	+	120	15			RECEPTACLE RM. G102 & G103	26
27					1920	<u></u> │┼┿	+		15			OUTSIDE RECEPT. SE GRIT BLDG.	28
29	XFMR-G9		8	40	1920]	+		15			OUTDOOR LIGH REC. VCH. DUMPING	30
31	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\sim	~	~	1920	│ ╋┼	+		15			OUTSIDE RECEPT. NE GRIT BLDG.	32
33	LCP-G1		12	15	300	∖ ††	+	150	15	12		NP-G1 NETWORKING PANEL	34
35	LCP-G2		12	15	300	!	+	10	15	12		CCTV GRIT TRUCK BAY	36
37	G603-GMU & G605-GMU		12	15	200	/† †	\dagger					SPACE	38
	SPACE	~	~	~	}] 🕇 🕇	+					SPACE	40
$\overline{}$	SPACE					\coprod	+					SPACE	42
TOTAL	CONNECTED LOAD: KVA	ŀ	PHASE	A:	k۷	Ά		Α			NOTE LI		
	A (AVG)		PHASE		k۷							AFCI ARC FAULT CIRCUIT INTERRUPTOR	-0.0
	• • •							A				GFCI GROUND FAULT CIRCUIT INTERRUPT LOCK LOCKED BREAKER	UK
	A (MAX)	ŀ	PHASE	<u> </u>	k۷	Α		A				LOOK LOOKED BINLANLIN	
NOTES		DD4*****	00										
I 1	. WATT LOADS COPIED FROM EXISTING	DRAWIN	GS.										

TIAL NGHOUSE PRL1		10	00	120/2	208V		3¢		4	FLUSH MOUNT BOT. FED				
NGHOUSE PRL1		•		•			1	OCATIONI	•					
							l'	LOCATION: GRIT ELECTRICAL ROOM						
CODIDION							1	nterrupti	NG RATING	: 10 KA				
CODIDTION							ı	nst. Setti	NGS:	N/A				
SCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A I I	LOAD (VA)	BRKF		NOTE	DESCRIPTION	CC			
			15	500W	•	400W	15			SPARE	2			
			15] +++	1200W	15			FIELD DEVICE PANEL 'G'	4			
				3000W	│┼┼┿	1200W	15			FIELD DEVICE PANEL 'G'	6			
DMINISTRATION BLDG.			40	3000W	 	1200W	15	_		FIELD DEVICE PANEL 'G'	8			
				3000W	<u></u> │┼┿┼	150	15			BPS-G1	10			
				500	 		15			SPARE	12			
.–8G)			40	500	ļ † 		15			SPARE (WAS NETWORK HUB)	14			
				500	 † 		15			SPARE	16			
			15		 					SPACE	18			
			15		† 					SPACE	20			
			15		 † 		-			SPACE	22			
									NOTE : 5		24			
KVA	1	PHASE	A:	k۷	Ά	Α								
A (AVG)	I	PHASE	B:	k۷	Ά	Α					ΌR			
, ,											511			
_	KVA A (AVG) A (MAX)	A (AVG)	A (AVG) PHASE	A (AVG) PHASE B:	A (AVG) PHASE B: kV	A (AVG) PHASE B: kVA	A (AVG) PHASE B: kVA A	A (AVG) PHASE B: kVA A	A (AVG) PHASE B: kVA A	A (AVG) PHASE B: KVA A	A (AVG) PHASE B: KVA A GFCI GROUND FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPT			

PANEL	PNL—G9	(WAS	PNL-	8G)		MPS:	VOLTS: 120/2	208V		PHASE		WIRE:	4	SURF. MOUNT X TOP FED TOP	
DESCR	NOTION	SSENTIAL		/							LOCAT	I TION:		GRIT ELECTRICAL ROOM	
MFG /	/ MODEL: WESTING	GHOUSE PR	RL1								INTER	Ruptin	G RATING	³ 10 KA	
MAIN	BREAKER: N/A										INST.	SETTIN	IGS:	N/A	
CCT.	DES	CRIPTION		NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A I I I I Ç	LOAD (VA)	BRI		WIRE (AWG)	NOTE	DESCRIPTION	CC
1	PCU SA FEED 2				10	30	900W	+						SPACE	2
3	SPARE					15]+++						SPACE	4
5	SPARE					15] 						SPACE	6
7	SPACE] 						SPACE	8
9	SPACE							<u></u> │┼┿┼						SPACE	10
11	SPACE							│	·					SPACE	1:
13	SPACE							 						SPACE	1.
	SPACE							<u></u> │┼┿┼						SPACE	10
17	SPACE							 	•					SPACE	18
TOTAL	CONNECTED LOAD:	KVA		F	PHASI	Ξ A:	k۷	Ά	Α				NOTE LE		
		A (A)	VG)	F	PHASI	E B:	k۷	Ά	Α					AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPT	ГOR
		A (M	IAX)	F	PHASI	E C:	k۷	Ά	Α				l	LOCK LOCKED BREAKER	
NOTES 1		OPIED FROM	EXISTING [DRAWIN	GS.										

PANEL	. ID:		AMPS:	VOLTS:			T I	PHASE:	WIRE	:	SURF. MOUNT X TOP FED		
	PNL-G10		100	120/	208	SV		3ø		4		X	
DESC	RIPTION: FED FROM UPS-G1							LO	CATION:	_	GRIT ELECTRICAL ROOM		
MFG ,	/ MODEL: CUTLER—HAMMER PRL1a							INT	ERRUPTIN	IG RATING	^{3:} 10 KA		
MAIN	BREAKER: N/A							INS	ST. SETTIN	NGS:	N/A		
сст.	DESCRIPTION		VIRE BRKR	LOAD (VA)	Ä	I C	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	DESCRIPTION	сст.	
1	RM. G129 NETWORK EQUIPMENT		12 15	100	+	H	1200	15	12		FIELD DEVICE PANEL 'G'	2	
3	PCU SA FEED 1		10 30	900	14	↓ ↓∣	150	15	12		NP-G1 NETWORKING PANEL	4	
5	RECEPTACLE RM. G116	· ·	12 15	100	14	 	500	15_	10_		CDC=G3	مهم	•
7	NETWORK HUB	· /	12 15	100	1 ♣	H	200	15	12		LCP-G1	8	
9	MCC-1G CONTROL COMPARTMENT		12 15	60	1∔	├ ┤│	200	15	12		LCP-G2	10	
11	MCC-4G CONTROL COMPARTMENT	•	12 15	60	1+	+	$\sqrt{}$	\sim	\sim	\sim	SPARE SPARE	42	
13	SPARE		15		1	HI		15			SPARE	14	
15	SPARE		15		1+∙	∤ ∤∣					SPACE	16	
17	SPARE		15		1+	+					SPACE	18	
19	SPARE		15		+	HI					SPACE	20	
21	SPACE]∔	⊦ ∔∣					SPACE	22	
23	SPACE				1+	+					SPACE	24	
25	SPACE				│ ┿	HI					SPACE	26	
27	SPACE] ├-	⊦ ∔∣					SPACE	28	
29	SPACE				1+	+					SPACE	30	
31	SPACE]+	HI					SPACE	32	
33	SPACE]∔	⊦ ∔∣					SPACE	34	
35	SPACE				1+	+					SPACE	36	
37	SPACE] ┿	HI					SPACE	38	
39	SPACE] ├-	- H∣					SPACE	40	
41	SPACE				1+	+					SPACE	42	
TOTAL	CONNECTED LOAD: 3.1 KVA	DU	ASE A:	1 / 1/	/ <u>/</u>		11 7 A		•	NOTE LE	EGEND:		
											AFCI ARC FAULT CIRCUIT INTERRUPTOF		
	8.5 A (AVG)		ASE B:	1.1 k\			8.8 A				GFCI GROUND FAULT CIRCUIT INTERRU	PTOR	
	11.7 A (MAX)	PH.	ASE C:	0.6 k\	/A		5.0 A				LOCK LOCKED BREAKER		
NOTES 1													

NOTES:

1. SUPERCEDES SEP-828 AND PART OF SEP-580.

Certificate of Authorization
SNC-Lavalin Inc.
No. 4489

		T	I		*))	SNC-LAVALIN INC. 148 Nature Park Way	ENGINEER'S
					SNC+LAVALIN	Winnipeg, MB, Canada R3P 0X7 204-786-8080	
					DESIGNED BY: T. CHURCH	CHECKED BY: C. REIMER	
04	ISSUED FOR TENDER, BID OPP. 42-2013	2013/01/15	TMC	CJR	DRAWN BY: A. L. SARLO	APPROVED BY: C. REIMER	
03	ISSUED FOR TENDER, BID OPP. 545-2012	2012/09/10	TMC	CJR	SCALE: NTC	RELEASED FOR CONSTRUCTION	1
02	ADDED WET WELL RECEPTACLE	2012/03/22	TMC	CJR	NTS	BY: N. HARRINGTON	
01	ADDED CCTV CIRCUIT	2012/02/08	TMC	CJR	DATE: 2009/08/31	DATE: 2011/03/11	
00	ISSUED FOR TENDER, BID OPP. 209-2011	2011/03/11	TMC	CJR	CONSULTANT NO.:		1
NO.	REVISIONS	DATE	DESIGN	CHECK	112577	-0106-47DD-0204	

THE CITY C

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
ESSENTIAL SYSTEM UPGRADES
PANEL SCHEDULES
GRIT BUILDING ELECTRICAL ROOM

CITY DRAWING NUMBER SHEET REV. SIZE 1-0102G-E0011 001 04 A1

1-0102G-E0011-001-04.dwg