

PANEL ID: PNL-1A		AMPS: 100	VOLTS: 120/208V	PHASE: 3Ø	WIRE: 4	SURF. MOUNT <input type="checkbox"/>	FLUSH MOUNT <input checked="" type="checkbox"/>	TOP FED <input type="checkbox"/>	BOT. FED <input type="checkbox"/>					
DESCRIPTION: ESSENTIAL				LOCATION: ADMINISTRATION BUILDING ELECTRICAL ROOM										
MFG / MODEL: CUTLER HAMMER P1RL3A1-42				INTERRUPTING RATING: 10 KA										
MAIN BREAKER: N/A				INST. SETTINGS: N/A										
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A	B	C	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	DESCRIPTION	CCT.
1	EXIT LIGHTS			15	1000W				850W	15			LGTS. - ELEC./FR. STRS/BSMT. CORR.	2
3	LGTS. - LUNCH/CORR/REC/LAB			15	1200W				90W	15			LIGHTS OUTSIDE BACK DOOR	4
5	LGTS. - BKSTAIRS/WASH/LOCKER RM			15	500W								SPACE	6
7	RECEPT. - TELEPHONE POLE			15	300W				150	15	12	LOCK	BPS-M1	8
9	SPARE			15					150W	15			BURGLAR ALARM	10
11	SPARE			15					1200W	15			COUNTER PLUG IN LUNCH RM.	12
13	PAGING SYSTEM			15	500W				1200W	15			COUNTER PLUG IN LUNCH RM.	14
15	SPARE			15									SPACE	16
17	SPARE			15									SPACE	18
19	WOMEN'S LOCKER ROOM LIGHTS			15	800W								SPACE	20
21	MEN'S LOCKER ROOM LIGHTS			15	800W				700W	15			LIGHTS RMS M119, M151, M116	22
23	SPACE								300W	15			LIGHTS RMS M129, M127, M142	24
25	SPACE												SPACE (WAS UPS 2X)	26
27	SPACE												SPACE	28
29	SPACE												SPACE	30
31	SPACE												SPACE	32
33	SPACE												SPACE	34
35	SPACE												SPACE	36
37	SPACE												SPACE	38
39	SPACE												SPACE	40
41	SPACE												SPACE	42
TOTAL CONNECTED LOAD:			KVA	PHASE A:	KVA	A	NOTE LEGEND:			AFCI	ARC FAULT CIRCUIT INTERRUPTOR			
			A (AVG)	PHASE B:	KVA	A				GFCI	GROUND FAULT CIRCUIT INTERRUPTOR			
			A (MAX)	PHASE C:	KVA	A				LOCK	LOCKED BREAKER			
NOTES:														
1. WATT LOADS COPIED FROM EXISTING DRAWINGS.														

PANEL ID: PNL-1D		AMPS: 225	VOLTS: 120/208V	PHASE: 3Ø	WIRE: 4	SURF. MOUNT <input checked="" type="checkbox"/>	FLUSH MOUNT <input type="checkbox"/>	TOP FED <input type="checkbox"/>	BOT. FED <input type="checkbox"/>					
DESCRIPTION: NON-ESSENTIAL				LOCATION: ADMINISTRATION BUILDING ELECTRICAL ROOM										
MFG / MODEL: WESTINGHOUSE NBAH				INTERRUPTING RATING:										
MAIN BREAKER: N/A				INST. SETTINGS:										
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A	B	C	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	DESCRIPTION	CCT.
1	LIGHTS - MEN'S LOCKER ROOM			15	600W				1000W	15			RECEPT. - MEN'S LOCKER ROOM	2
3	LIGHTS - MEN'S LOCKER ROOM			15	1050W				1250W	15			RECEPT. - WOMEN'S LOCKER ROOM	4
5	RECEPT. - MEN'S LOCKER ROOM			15	1000W				900W	15			LIGHTS - WOMEN'S LOCKER ROOM	6
7	HAIR DRYER				1150W				1150W				HAIR DRYER	8
9	MEN'S LOCKER ROOM			15	1150W				1150W	15			WOMEN'S LOCKER ROOM	10
11	HAIR DRYER				1150W				1150W				HAIR DRYER	12
13	MEN'S LOCKER ROOM			15	1150W				1150W	15			WOMEN'S LOCKER ROOM	14
15	HAIR DRYER				1150W								STAIR HEATER ADMIN BUILDING	16
17	MEN'S LOCKER ROOM			15	1150W					15			SPARE	18
19	LIGHTS - CONFERENCE ROOM M144			15	750W				600W	15			LIGHTS - RMS M116, M151	20
21	LIGHTS - CONFERENCE ROOM M144			15	750W				600W	15			LIGHTS - RM M119	22
23	LIGHTS - RMS M140, M141			15	1200W				1000W	15			LIGHTS - M146, M147, M114, M145	24
25	LIGHTS - M142, RECEPT.			15	1200W				1000W	15			LIGHTS - ROOM M127	26
27	LIGHTS - M143, RECEPT.			15	1200W				800W	15			PROJECTOR SCREEN	28
29	RECEPT. - MAIN FLOOR			15	1000W				1000W	15			RECEPT. - BASEMENT	30
31	RECEPT. - MAIN FLOOR			15	1000W				1200W	15			RECEPT. - BASEMENT	32
33	CONDENSOR UNIT			10	30				1000W	15			RECEPT. - BASEMENT	34
35	M655-ACU				1200W				800W	15			LIGHTS - MECHANICAL ROOM M148	36
37	PANEL MCP1 POWER SUPPLY				300W				1100W	15			LIGHTS - RMS M149, M150, M107	38
39	LIGHTS - CONFERENCE ROOM 144				450W				1200W	30			CONDENSOR UNIT	40
41	LIGHTS - CONFERENCE ROOM 144				450W				1200W	30			M656-ACU	42
TOTAL CONNECTED LOAD:			KVA	PHASE A:	KVA	A	NOTE LEGEND:			AFCI	ARC FAULT CIRCUIT INTERRUPTOR			
			A (AVG)	PHASE B:	KVA	A				GFCI	GROUND FAULT CIRCUIT INTERRUPTOR			
			A (MAX)	PHASE C:	KVA	A				LOCK	LOCKED BREAKER			
NOTES:														
1. WATT LOADS COPIED FROM EXISTING DRAWINGS.														
2. ALL WIRING 12 AWG EXCEPT AS NOTED.														

PANEL ID: PNL-2X		AMPS: 225	VOLTS: 120/208V	PHASE: 3Ø	WIRE: 4	SURF. MOUNT <input checked="" type="checkbox"/>	FLUSH MOUNT <input type="checkbox"/>	TOP FED <input type="checkbox"/>	BOT. FED <input checked="" type="checkbox"/>					
DESCRIPTION: FED FROM UPS-M1				LOCATION: ADMINISTRATION BUILDING COMPUTER ROOM										
MFG / MODEL: WESTINGHOUSE PRL-1				INTERRUPTING RATING: 10 KA										
MAIN BREAKER: N/A				INST. SETTINGS: N/A										
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A	B	C	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	DESCRIPTION	CCT.
1	OIS NODE 2			12	15				1440	15	12		OIS NODE 1 & VIDEO	2
3	SPARE				15				1200	30	10		PCU 'SH' & NETWORKING	4
5	IT W/S			12	15				100	15	12		NP-M1 24V POWER SUPPLIES	6
7	SUPERVISOR W/S			12	15				600	15	12		NP-M1 POWER STRIP	8
9	JBA-UPS-M1			12	15				600	15	12		NP-M1 POWER STRIP	10
11	SPARE				15								SPACE	12
13	SPACE												SPACE	14
15	SPACE												SPACE	16
17	SPACE												SPACE	18
TOTAL CONNECTED LOAD:			7.1 KVA	PHASE A:	3.9 KVA	32.8 A	NOTE LEGEND:			AFCI	ARC FAULT CIRCUIT INTERRUPTOR			
			19.6 A (AVG)	PHASE B:	1.8 KVA	15.3 A				GFCI	GROUND FAULT CIRCUIT INTERRUPTOR			
			32.8 A (MAX)	PHASE C:	1.3 KVA	10.8 A				LOCK	LOCKED BREAKER			
NOTES:														
3. SUPERCEDES PART OF SEP-580 AND PART OF SEP-539.														

NO.	CONSTRUCTION NOTES
1	REMOVE FEEDER TO PNL-2X FROM PNL-1A.
2	INSTALL RED BREAKER FOR FIRE ALARM PANEL, LOCKABLE IN THE ON POSITION. AFFIX LABEL STATING "THE FIRE ALARM SYSTEM POWER IS SUPPLIED FROM MORE THAN ONE PRIMARY POWER SOURCE."
3	SWAP CIRCUITS TO RE-BALANCE LOADS.

NOTES:
1. SUPERCEDES PART OF SEP-580 AND PART OF SEP-539.

1-0102M-E0007	SINGLE LINE DIAGRAM - ADMINISTRATION BUILDING ELECTRICAL ROOM
DRAWING NUMBER	REFERENCE DRAWINGS



NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER, BID OPP. 209-2011	2011/03/11	TMC	CJR

<p>SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080</p>		ENGINEER'S SEAL
DESIGNED BY: T. CHURCH	CHECKED BY: C. REIMER	ORIGINAL DRAWING SEALED BY: T. M. CHURCH SNC-LAVALIN MEMBER # 32682 2011/03/25 REV. 00
DRAWN BY: A. L. SARLO	APPROVED BY: C. REIMER	
SCALE: N.T.S.	RELEASED FOR CONSTRUCTION BY: N. HARRINGTON	
DATE: 2009/08/31	DATE: 2011/03/11	
CONSULTANT NO.: 112577-0106-47DD-0104		

<p>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT</p>	
SOUTH END WATER POLLUTION CONTROL CENTRE ESSENTIAL SYSTEM UPGRADES PANEL SCHEDULES ADMINISTRATION BLDG ELECTRICAL ROOM	
CITY DRAWING NUMBER	SHEET REV. SIZE
1-0102M-E0011	001 00 A1