

LEGEND		
SYMBOL	DESCRIPTION	MTG HT
OC	OVER COUNTER	---
WP	WEATHER PROOF	---
GF	GROUND FAULT INTERRUPTING	---
TC	TIME SWITCH CONTROLLED	---
TL	TWISTLOCK	---
PC	PHOTOCELL CONTROLLED	---
CL	CEILING MOUNTED	---
WG	WIREGUARD	---
PR	PRINTER	---
MW	MICROWAVE	---
DW	DISHWASHER	---
FR	FRIDGE	---
FA	FIRE ALARM HORN	1828 (72")
FS	FIRE ALARM STROBE LIGHT	1828 (72")
FPS	FIRE ALARM PULLSTATION	1168 (46")
HT	HEAT DETECTOR - RATE OF RISE & FIXED TEMP	CEILING
SD	SMOKE DETECTOR - AREA TYPE	CEILING
SA	SMOKE ALARM	CEILING
IS	INTERCOM SYSTEM SPEAKER C/W CALL SWITCH	1270 (50")
FHT	FIXED TEMPERATURE HEAT (57°C)	CEILING
CT	CONTACTOR	---
<p>FIRE ALARM ZONE DEMARCATION (INDICATED ON FLOOR PLANS)</p>		

LEGEND		
SYMBOL	DESCRIPTION	MTG HT
NOTE: THIS LEGEND OF SYMBOLS REPRESENTS VANDERWESTEN & RUTHERFORD ASSOCIATES INC. STANDARD/Generic LEGEND. ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.		
□	FLUORESCENT FIXTURE	AS NOTED
▨	CROSS-HATCHED OR SHADED FIXTURE SHALL INDICATE CONNECTED TO EMERGENCY (ESSENTIAL) POWER	---
○	INCANDESCENT/HID/COMPACT FLUORESCENT FIXTURE	AS NOTED
○	WALL MOUNTED	AS NOTED
○	POLE MOUNTED	AS NOTED
○	OCCUPANCY SENSOR	CEILING
⊕	15A, 125V SINGLE POLE SWITCH, Ⓢ ₁ (TWO POLE), Ⓢ ₂ (3-WAY), Ⓢ ₃ (4-WAY), Ⓢ ₄ (KEY OPERATED), Ⓢ ₅ (DIMMER), Ⓢ ₆ (C/W PILOT LIGHT), Ⓢ ₇ (LOW VOLTAGE), Ⓢ ₈ (TIMER), Ⓢ ₉ (OCCUPANCY SENSOR SWITCH)	1168 (46")
⊕	15AMP 125VOLT U-GROUND DUPLEX RECEPTACLE	457 (18")
⊕	EXTERIOR RECEPTACLE MOUNTING DEVICE	---
⊕	TRANSFORMER	---
⊕	30AMP 250VOLT 1PHASE 4WIRE DRYER OUTLET	457 (18")
⊕	15AMP 125VOLT U-GROUND DUPLEX RECEPTACLE	FLOOR
⊕	SPECIAL RECEPTACLE (REFER TO DRAWINGS)	AS NOTED
•	DIRECT CONNECTION (REFER TO DRAWINGS)	AS NOTED
▬	ELECTRICAL PANEL	1981 (78") TO TOP
▬	SYSTEM PANEL AS NOTED	1981 (78") TO TOP
□	SINGLE PUSHBUTTON STATION	1168 (46")
□	CLOCK OUTLET AND CLOCK (CONFIRM HEIGHT ON SITE BEFORE INSTALLATION)	2286 (90")
□	DISCONNECT SWITCH	1270 (50")
□	MANUAL MOTOR STARTER (CONFIRM BARRIER FREE REQUIREMENTS)	1170 (46")
□	MAGNETIC MOTOR STARTER (CONFIRM BARRIER FREE REQUIREMENTS)	1170 (46")
□	COMBINATION STARTER AND DISCONNECT	1270 (50")
○	MOTOR CONNECTION (SINGLE OR THREE PHASE)	---
○	MOTORIZED DAMPER	---
⊕	THERMOSTAT (CONFIRM BARRIER FREE REQUIREMENTS)	1473 (58")
▽	TELEPHONE OUTLET	457 (18")
▽E	EMERGENCY TELEPHONE OUTLET - 911 ONLY	1168 (46")
↓	TELEVISION OUTLET WITH 25mm RACEWAY UP TO ACCESSIBLE CEILING SPACE WITHIN CORRIDOR	AS NOTED
DC	DOOR CONTACT	DOOR FRAME
MD	MOTION DETECTOR (ULTRASONIC OR INFRARED)	2440 (96")
DB	DOOR BELL PUSHSTATION	1220 (48")
KP	KEY PAD - BUILDING	1168 (46")
KPS	SECURITY SYSTEM KEY PAD	1168 (46")
CAM	JUNCTION BOX FOR SECURITY DEVICES	CEILING
CA	JUNCTION BOX FOR SECURITY DEVICES	CEILING
CCTV	CLOSED CIRCUIT TELEVISION CAMERA	ON COUNTER
VDT	VIDEO DISPLAY TERMINAL	ON COUNTER
▽	VOICE/DATA OUTLET	457 (18")
▽	VOICE/DATA OUTLET	FLOOR
□	BELL	1828 (72")
M	SOUND SYSTEM MICROPHONE OUTLET	457 (18")
⊕	SOUND SYSTEM SPEAKER	CEILING
⊕	SOUND SYSTEM SPEAKER - WALL MOUNTED	WALL
⊕	SOUND SYSTEM HORN SPEAKER	1830 (72")
⊕	SOUND SYSTEM VOLUME CONTROL	1473 (58")
⊕	STROBE LIGHT	CEILING
PA	PANEL 'A' SHUT DOWN MUSHROOM TYPE PUSHBUTTON	1168 (46")
OH	OVERHEAD DOOR CONTROL STATION	1168 (46")
⊕	REEL TYPE RECEPTACLE	CEILING
20AT	20AMP T-SLOT	---
ELB	EMERGENCY LIGHTING BATTERY UNIT N° 1 C/W RECEPTACLE	1828 (72")
EL	REMOTE EMERGENCY LIGHT - SINGLE HEAD	1828 (72")
EL	REMOTE EMERGENCY LIGHT - DOUBLE HEAD	1828 (72")
EXI	EXIT LIGHT - SINGLE SIDED	AS NOTED
EXD	EXIT LIGHT - DOUBLE SIDED	AS NOTED
→	EXIT LIGHT - DIRECTIONAL ARROW	---
▽	DATA SYSTEM OUTLET	FLOOR
OP	OPTICOM STATION	---
□	FIRE ALARM ISOLATION MODULE	---
⊕	CEILING MOUNTED EMERGENCY CALL LIGHT	AS NOTED
⊕	WALL MOUNTED EMERGENCY CALL LIGHT	AS NOTED

FIXTURE SCHEDULE COND'			
TYPE	DESCRIPTION	LAMPS	MTG
JA	COMPACT FLUORESCENT FIXTURE C/W PRISMATIC GLASS REFLECTOR, 120V, BLACK COLOUR FINISH, SLOTTED SOCKET HUSK WITH STEEL RODS, STEM AND CANOPY REQUIRED.	1042W CF	STEM BOTTOM OF FIXTURE
JB	COMPACT FLUORESCENT FIXTURE C/W PRISMATIC GLASS REFLECTOR, 120V, BLACK COLOUR FINISH, SLOTTED SOCKET HUSK WITH STEEL RODS, STEM AND CANOPY REQUIRED.	1057W CF	STEM BOTTOM OF FIXTURE
KA	METAL HALIDEPOLE LIGHT C/W 6" (152) OPENING, SPECULAR CLEAR ALZAK REFLECTOR, BLACK TRIM RING, HORIZONTAL LAMP MOUNTING, 120V BALLAST, FRESNEL LENS.	1-70W MH ED-17	RECESS IN CANOPY
KB	METAL HALIDE ROUND FIXTURE C/W BLACK FINISH, DIE CAST ALUMINUM FACEPLATE WITH SOLID UPPER HALF, SMOOTH LENS, DIE CAST ALUMINUM HOUSING, 120V, SUITABLE FOR WET LOCATION, FULLY GASKETTED.	1-70W MH ED-17	WALL FLUSH 8"-9" (2695) A.F.F.
MA	METAL HALIDE POLE MOUNTED FIXTURE C/W GULLWING STYLE HEAD, BLACK COLOUR FINISH, TYPE 3 DISTRIBUTION, 120V BALLAST, HOUSEHOLD.	1-100W MH ED-17	POLE MTD 20'-0" (6096) 4" (100) SQUARE STEEL
NA	INCANDESCENT TRAFFIC SIGN C/W IMPACT RESISTANT LEXAN LENS, GREEN AND RED LAMPS, 120V.	2-53W R20	WALL FLUSH 5'-0" (1524) A.F.F.
PA	PORCELAIN KEYLESS LAMPHOLDER C/W WHITE FINISH.	1-18W CF	WALL
QA	LED FLASHING LIGHT C/W SNAP-ON HIGH IMPACT POLYCARBONATE/ABS BASE, SHATTER RESISTANT POLYCARBONATE LENS, DOUBLE FRESNEL LENS, 120VOLT.	LED	WALL 5'-0" (1524) A.F.F.
QB	LED STEADY-ON FLASHING LIGHT C/W SNAP-ON HIGH IMPACT POLYCARBONATE/ABS BASE, SHATTER RESISTANT POLYCARBONATE LENS, DOUBLE FRESNEL LENS, 120VOLT.	LED	WALL 5'-0" (1524) A.F.F.
RA	INCANDESCENT WALL MOUNTED LIGHT C/W CHROME FINISH, WALL PLATE, 120VOLT, ARCING STEM.	1-50W HAL	WALL 4'-0" (1220) A.F.F.

FIXTURE SCHEDULE			
TYPE	DESCRIPTION	LAMPS	MTG
NOTES: 1. CONTRACTOR AND FIXTURE SUPPLIER ARE RESPONSIBLE TO PROVIDE ALL PLASTER AND FINISHING FRAMES, MOUNTING HARDWARE, AND ACCESSORIES TO SUIT ARCHITECTURAL CEILING SCHEDULE. 2. CONTRACTOR AND SUPPLIER ARE RESPONSIBLE TO VERIFY NUMBER OF BALLASTS REQUIRED FOR MULTIPLE SWITCHING OF FIXTURES. 3. ALL FLUORESCENT AND HID BALLASTS SHALL BE HPF-90% OR BETTER POWER FACTOR UNLESS OTHERWISE INDICATED.			
AA	2'x4' (610x1220) FLUORESCENT PARABOLIC FIXTURE C/W 12 CELLS, 3" (76) DEEP LOW RIDGE/SEMI-SPECULAR ALUMINUM FINISH, 120V ELECTRONIC BALLASTS, WHITE FINISH.	2-32W T8	RECESS
BA	2'x4' (610x1220) FLUORESCENT FIXTURE C/W K12 ACRYLIC LENS, WHITE FINISH, 120V ELECTRONIC BALLASTS, FLUSH STEEL DOOR FRAME.	2-32W T8	RECESS
CA	4'-0" (1220) FLUORESCENT STRIP FIXTURE C/W WHITE FINISH, 120V ELECTRONIC BALLAST.	1-32W T8	VALANCE
CB	3'-0" (915) FLUORESCENT STRIP FIXTURE C/W WHITE FINISH, 120V ELECTRONIC BALLAST.	1-25W T8	VALANCE
DA	8'-0" (2440) FLUORESCENT FIXTURE C/W ONE-PIECE WATER-CLEAR LENS, FULLY GASKETTED, WHITE FINISH, SUITABLE FOR WET LOCATION, STEM MOUNTED, 120V ELECTRONIC BALLAST, PROVIDE WATER TIGHT KIT FOR CONCEALING STEM TO FIXTURE.	4-32W T8	STEM BOTTOM OF FIXTURE 10'-6" (3200) A.F.F.
DB	4'-0" (1220) FLUORESCENT FIXTURE C/W ONE-PIECE WATER-CLEAR LENS, FULLY GASKETTED, WHITE FINISH, SUITABLE FOR WET LOCATION, STEM MOUNTED, 120V ELECTRONIC BALLAST, PROVIDE WATER TIGHT KIT FOR CONCEALING STEM TO FIXTURE.	2-32W T8	STEM BOTTOM OF FIXTURE 10'-6" (3200) A.F.F.
EA	4'-0" (1220) FLUORESCENT INDUSTRIAL FIXTURE C/W WHITE FINISH, 120V ELECTRONIC BALLAST, SOLID APERTURE, CHAIN KIT.	2-32W T8	CHAIN BOTTOM OF FIXTURE 10'-6" (3200) A.F.F.
FA	4'-0" (1220) FLUORESCENT UNDER CABINET FIXTURE C/W WHITE FINISH, PRISM LENS, 120V ELECTRONIC BALLAST.	1-32W T8	UNDER CABINET
FB	3'-0" (915) FLUORESCENT UNDER CABINET FIXTURE C/W WHITE FINISH, PRISM LENS, 120V ELECTRONIC BALLAST.	1-25W T8	UNDER CABINET
GA	COMPACT FLUORESCENT FIXTURE C/W 6" (152) OPENING, SPECULAR CLEAR ALZAK REFLECTOR, WHITE TRIM RING, HORIZONTAL LAMP MOUNTING, 120V ELECTRONIC BALLAST, SUITABLE FOR WET LOCATION, FLAT LENS.	2-18W DTT	RECESS
GB	COMPACT FLUORESCENT FIXTURE C/W 6" (152) OPENING, SPECULAR CLEAR ALZAK REFLECTOR, WHITE TRIM RING, HORIZONTAL LAMP MOUNTING, 120V ELECTRONIC BALLAST.	2-18W DTT	RECESS
HA	COMPACT FLUORESCENT FIXTURE C/W 6" (152) OPENING, SPECULAR CLEAR ALZAK REFLECTOR, WHITE TRIM RING, HORIZONTAL LAMP MOUNTING, 120V ELECTRONIC DIMMABLE BALLAST.	2-18W DTT	RECESS

ELECTRICAL DRAWING LIST	
E10	ELECTRICAL DRAWING LIST, LEGEND & SCHEDULES
E11	ELECTRICAL SITEPLAN
E2.1	FLOOR PLAN LIGHTING
E2.2	FLOOR PLAN POWER & SYSTEMS
E3.1	ELECTRICAL DETAILS & ENLARGED ROOM LAYOUTS
E3.2	ELECTRICAL DETAILS, PANELS & MAIN SERVICE RISER

EMERGENCY LIGHTING SCHEDULE			
ALL BATTERY UNITS SHALL HAVE CAPACITY OF 150 WATTS FOR 90 MINUTES. PROVIDE WIRE SIZE AND LINKS AS TO NOT EXCEED A 5% VOLTAGE DROP.			
UNIT No.	No. OF LAMPS	No. OF EXIT LIGHTS	TOTAL WATTS
1	8	2	82
2	8	0	72
3	12	3	123
4	4	0	36
5	11	2	109
6	6	0	54
7	6	2	64
8	6	0	54

EXIT LIGHTS

EXIT LIGHTS SHALL BE SUITABLE FOR SURFACE, WALL, OR CEILING MOUNTING, 6" RED LETTERS ON BRUSHED ALUMINUM BACKGROUND, FORMED ALUMINUM STENCIL FACE, L.E.D. ILLUMINATED, DISSIPATING NO MORE THAN 5 WATTS PER SINGLE OR DOUBLE FACED SIGN. 25 YEAR MINIMUM LIFE EXPECTANCY.

REFER TO ELECTRICAL SPECIFICATIONS FOR MANUFACTURERS.

- GENERAL NOTES**
- DO NOT SCALE DRAWINGS FOR INSTALLATION PURPOSES. OBTAIN ALL DIMENSIONS FROM ARCHITECTURAL PLANS, MANUFACTURER'S SHOP DRAWINGS, AND ON SITE INSPECTIONS.
 - PRIOR TO INSTALLATION OF BOXES IN WALLS, VERIFY THAT NO INTERFERENCES EXIST. CHECK ARCHITECTURAL PLANS AND ELEVATIONS.
 - MECHANICAL AND ELECTRICAL TRADES SHALL WORK IN CONJUNCTION WITH ONE ANOTHER SO AS TO AVOID INTERFERENCES BETWEEN PIPING, DUCTWORK, CONDUIT, LIGHTING FIXTURES, ETC.
 - WORK IN CONJUNCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN WHEN LOCATING LIGHT FIXTURES.
 - REVIEW ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS AND PROVIDE ON SITE INSPECTIONS TO DETERMINE FULL EXTENT OF PROJECT PRIOR TO SUBMITTING BID.
 - POWER AND CONTROL WIRING MUST RISE TO ROOFTOP EQUIPMENT WITHIN CURB OF UNIT UNLESS OTHERWISE APPROVED BY CONSULTANT. CONFIRM EXACT LOCATION ON SITE WITH CONSULTANT BEFORE INSTALLATION.

ISSUES:		
NO	DATE	DESCRIPTION
1	MAY 14, 2010	ISSUED FOR CLIENT REVIEW
2	MAY 19, 2010	ISSUED FOR CLIENT REVIEW
3	SEPT. 24, 2010	ISSUED FOR BUILDING PERMIT
4	DEC. 10, 2010	ISSUED FOR TENDER

VRM

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REVIEW ALL DRAWINGS AND VERIFY ALL DIMENSIONS AT THE SITE. DO NOT SCALE THE DRAWINGS. REPORT ALL DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH ANY CONSTRUCTION OR SHOP FABRICATION. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF VANDERWESTEN RUTHERFORD MANTECON AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE CONSULTANT'S WRITTEN PERMISSION.

PROJECT NAME:

NEW WINNIPEG STATION No. 27 PROJECT

SAGE CREEK, WINNIPEG, MANITOBA

DRAWING TITLE:

ELECTRICAL DRAWING LIST, LEGEND & SCHEDULES

PROJECT NORTH:

STAMP:
VRM #10-013

NOT VALID FOR CONSTRUCTION UNLESS SIGNED

SCALE:
AS NOTED

PROJECT NO.:
2261

DATE:
DECEMBER 10, 2010

ISSUED:
DECEMBER 10, 2010

DRAWN BY:
PDL

CHECKED BY:
ELC

DRAWING NO.:
E1.0