LIGHTING ANNOTATION LEGEND

LUMINAIRE TYPE (SCHEDULE REFERENCE)

SWITCH LEG

PANEL AND CIRCUIT

	ABBREVIATIONS
ΕX	EXISTING DEVICE TO REMAIN
RE	REMOVE EXISTING DEVICE
RP	REPLACE EXISTING DEVICE WITH NEW DEVICE
RL	RELOCATE EXISTING DEVICE
ER	EXISTING DEVICE IN RELOCATED POSITION
AFF	ABOVE FINISHED FLOOR
СМ	COFFEE MACHINE
DW	DISHWASHER
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
JB	JUNCTION BOX
MW	MICROWAVE
TV	TELEVISION
TYP	TYPICAL
WP	WEATHERPROOF

DRAWING LIST AND SYMBOL LEGEND

ELECTRICAL SINGLE LINE DIAGRAM

ELECTRICAL DETAILS

E-303 ELECTRICAL SCHEDULES

E-304 ELECTRICAL SCHEDULES

E-305 ELECTRICAL SPECIFICATION

E-306 ELECTRICAL SPECIFICATION

PARTIAL FLOOR PLAN - LIGHTING - DEMOLITION

PARTIAL FLOOR PLAN - LIGHTING - DEMOLITION

PARTIAL FLOOR PLAN - POWER AND SYSTEMS - DEMOLITION

PARTIAL FLOOR PLAN - POWER AND SYSTEMS - DEMOLITION

PARTIAL FLOOR PLAN - POWER AND SYSTEMS - NEW CONSTRUCTION

PARTIAL FLOOR PLAN - POWER AND SYSTEMS - NEW CONSTRUCTION

PARTIAL FLOOR PLAN - FIRE ALARM AND SECURITY - NEW CONSTRUCTION

PARTIAL FLOOR PLAN - FIRE ALARM AND SECURITY - NEW CONSTRUCTION

PARTIAL FLOOR PLAN - LIGHTING - NEW CONSTRUCTION

PARTIAL FLOOR PLAN - LIGHTING - NEW CONSTRUCTION

E-002 SITE PLAN - ELECTRICAL

DRAWING LIST

E-102

E-103

E-104

E-201

E-202

E-203

E-204

E-205

E-206

E-302

	POWER PLAN SYMBOLS
₩	DUPLEX 5-15R RECEPTACLE
<b>⊕</b> GF	DUPLEX 5-15R RECEPTACLE C/W INTEGRAL GFCI PROTECTION
<b>∌</b>	DUPLEX 5-20R RECEPTACLE, T-SLOT
<del>0</del>	SINGLE 5-15R RECEPTACLE
<b>*</b>	TWO DUPLEX 5-15R RECEPTACLES
€	FLOOR MOUNTED DUPLEX 5-15R RECEPTACLE
•	CEILING MOUNTED DUPLEX 5-15R RECEPTACLE
Ð	CEILING MOUNTED JUNCTION BOX
<u> </u>	WALL MOUNTED JUNCTION BOX
j	FLOOR MOUNTED JUNCTION BOX
	POWER PANELBOARD
•	PUSHBUTTON (TYPE AND WIRING AS INDICATED)
5	MOTOR
ൊ	MOTOR c/w DISCONNECT SWITCH
<u></u>	DISCONNECT SWITCH
	DEVICE MOUNTED ABOVE MILLWORK COUNTERTOP

	TELECOMMUNICATIONS SYMBOLS
<b>4</b> #	WALL MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)
₩#	FLOOR MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)
<b>*</b>	WIRELESS ACCESS POINT
<b>₩</b> CATV	WALL MOUNTED TELEVISION OUTLET

√AV WALL MOUNTED AUDIO / VIDEO JACK (TYPE AS INDICATED)

_	WALL MOUNTED TELEVISION OUTLET
JE	BLIC ADDRESS & AUDIO-VISUAL SYMBOLS
	WALL MOUNTED SPEAKER
	FLOOR MOUNTED AUDIO / VIDEO JACK (TYPE AS INDICATED)

## GENERAL SYMBOLS (\*) NOTE REFERENCE EQUIPMENT REFERENCE REVISION NUMBER WIRING HOME RUN

	FIRE ALARM SYMBOLS
E	FIRE ALARM MANUAL STATION
	FIRE ALARM ELECTRONIC HORN/SOUNDER/CHIME c/w STROBE
¥	WALL MOUNTED REMOTE EVACUATION STROBE
Ö	FIRE ALARM SMOKE DETECTOR
EOL	FIRE ALARM END OF LINE RESISTOR
0	CARBON MONOXIDE DETECTOR

SECURITY/ACCESS CONTROL SYMBOLS					
CR	CR ACCESS CONTROL CARD READER				
ES	ELECTRIC STRIKE. BY OTHERS. WIRE AND CONNECT				
<b>(2)</b>	ACCESS CONTROL REQUEST-TO-EXIT MOTION SENSOR				
	•				

	SCHEMATIC SYMBOLS
<b>-</b> ~-	LOW VOLTAGE CIRCUIT BREAKER
PANEL RILL 42CCT RILL	PANELBOARD

## ELECTRICAL GENERAL NOTES (APPLICABLE FOR ALL DRAWINGS):

- THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM AUTHORITIES HAVING JURISDICTION AND PAY ALL ASSOCIATED FEES.
- 2. LOCATE JUNCTION AND PULL BOXES AS REQUIRED TO ALLOW ACCESS AFTER EQUIPMENT AND APPERTANCES ARE INSTALLED. COORDINATE EXACT LOCATIONS WITH THE OTHER TRADES. COORDINATE LOCATIONS AND ELEVATIONS OF ELECTRICAL DEVICES WITH DRAWINGS AND OTHER TRADES PRIOR TO INSTALLATION.
- 3. PROTECT PERMANENT BUILDING FINISHES FROM DAMAGE DURING CONSTRUCTION PERIOD. PROVIDE PLYWOOD OR SIMILAR MATERIAL UNDER EQUIPMENT OR MATERIALS STORED ON FLOORS, AND IN AREAS WHERE CONSTRUCTION MAY DAMAGE FINISHES. SURFACES OR FINISHES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE COST OF THE CONTRACTOR AT FAULT.
- 4. CONTRACTORS SHALL COORDINATE LOCATIONS OF FIXTURES AND ELECTRICAL DEVICES INSTALLED IN OR ON THE CEILING WITH ARCHITECTURAL REFLECTED CEILING PLAN. CEILING MOUNTED ELECTRICAL DEVICES SHALL BE MOUNTED IN THE CENTER OF THE CEILING TILES, UNLESS OTHERWISE NOTED.
- 5. FOR ALL DEVICES BEING DEMOLISHED. REMOVE WIRE, CONDUIT, ETC. BACK TO SOURCE UNLESS NOTED OTHERWISE.
- 6. PROPERLY SUPPORT PER CODE LOW VOLTAGE CABLING NOT IN CONDUIT. IN AREAS SUCH AS CORRIDORS DESIGNATED FOR NEW CEILINGS AND FINISHES, SUPPORT EXISTING ELECTRICAL DEVICES AND EQUIPMENT IN AND ABOVE THE CEILING, INCLUDING CONDUIT AND CABLING. PROVIDE PROPER PERMANENT SUPPORT AS NEEDED TO COMPLY WITH CODE AND TAKE WEIGHT OFF CEILING SUPPORTS. REMOVE AND REINSTALL ELECTRICAL DEVICES AND EQUIPMENT AS NEEDED FOR PAINTING, WALL COVERINGS, CEILINGS, AND FINISH WORK. REFER TO ARCHITECTURAL DRAWINGS. LOW VOLTAGE CABLING LOCATED IN EXPOSED STRUCTURE (CEILING) AREAS SHALL BE INSTALLED IN CONDUIT (OR CABLE TRAY, IF APPLICABLE) AND ROUTED TIGHT TO DECK. INSTALLATIONS NOT IN COMPLIANCE WITH THIS REQUIREMENT SHALL BE REMOVED AND REINSTALLED AT CONTRACTOR'S EXPENSE.
- 7. FOR BRANCH CIRCUITS OVER 75' (25 METERS) IN LENGTH (TOTAL ONE WAY) FROM THE PANEL, THE ELECTRICAL CONTRACTOR SHALL CALCULATE THE VOLTAGE DROP AND PROVIDE AN APPROPRIATE CONDUCTOR SIZE TO ACHIEVE NO MORE THAN 3% MAXIMUM ALLOWABLE VOLTAGE DROP.
- 8. DO NOT SCALE THE DRAWINGS. BECAUSE OF THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS OR OTHER SIMILAR ITEMS WHICH MAY BE REQUIRED TO MAKE A COMPLETE OPERATING SYSTEM. CAREFULLY INVESTIGATE CONDITIONS AFFECTING WORK AND INSTALL WORK IN SUCH MANNER THAT INTERFERENCES BETWEEN PIPES, CONDUITS, DUCTS, EQUIPMENT, ARCHITECTURAL AND STRUCTURAL FEATURES SHALL BE AVOIDED.
- 9. ALL NEW VOICE/DATA CABLING TO BE FT-6 RATED.
- 10. ALLOW FOR RE-VERIFICATION OF FIRE ALARM SYSTEM UPON COMPLETION.
- 11. ANY ELECTRICAL EQUIPMENT, FIXTURES AND / OR DEVICES THAT ARE TO REMAIN SHALL BE UPGRADED TO CURRENT CODES AND TO PROJECT SPECIFICATIONS WHERE THEY ARE FOUND TO BE IN NON-COMPLIANCE.

## **DEMOLITION GENERAL NOTES:**

- 1. ANY EXISTING WIRING SERVING DEVICES TO REMAIN IN SERVICE, AND WHICH IS INTERRUPTED BY WORK PERFORMED UNDER THIS CONTRACT, SHALL BE REROUTED TO MAINTAIN CIRCUIT CONTINUITY. CONTRACTOR SHALL ASSUME THE RISK OF MAINTAINING EXISTING SYSTEMS EXCEPT RELOCATION OF WIRING OF #2 AWG AND ABOVE SHALL BE CONSIDERED AN ADDITIONAL COST IF NOT SHOWN TO BE RELOCATED. IF SUCH WIRING IS FOUND THE CONTRACTOR SHALL NOTIFY THE OWNER OF WIRING LOCATION, REASON IT MUST BE REMOVED AND COST OF RELOCATION AND RECEIVE THE OWNER'S APPROVAL BEFORE PROCEEDING WITH THE WORK. PRIOR TO COMMENCING WITH DEMOLITION, IDENTIFY ALL POWER, LIGHTING, COMMUNICATION AND SIGNAL PASSING THROUGH THE DEMOLITION AREA OR EXTENDING BEYOND THE DEMOLITION AREA. COORDINATE WITH THE DEMOLITION WORK OF OTHER TRADES.
- 2. PERMANENTLY REMOVE ABANDONED ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, JUNCTION BOXES. ELECTRICAL DEVICES AND ASSOCIATED WIRE, RACEWAYS, AND/OR JUNCTION BOXES. THE REMOVAL OR RELOCATION OF EXISTING ELECTRICAL EQUIPMENT PRESENTLY CONCEALED IN EXISTING CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVAL OR RELOCATION. RACEWAYS AND CONDUCTORS SHALL BE REMOVED BACK TO THE SOURCE OR NEAREST REMAINING JUNCTION BOX OR DEVICE AS FAR AS PRACTICAL, OR WHERE COMPLETE REMOVAL NOT PRACTICAL, RENDERED PERMANENTLY SAFE. UNUSED FLUSH MOUNTED DEVICES, OUTLET AND OTHER BOXES IN FINISHED AREAS SHALL BE REMOVED FROM WALL AND THE REMAINING HOLE PATCHED TO MATCH ADJACENT WALL SURFACES.
- 3. ANY EXISTING SYSTEM OUTAGES SHALL BE OF MINIMUM DURATION AND AT A TIME ACCEPTABLE TO THE OWNER.
- 4. ELECTRICAL EQUIPMENT, FIXTURES, AND/OR DEVICES SCHEDULED TO REMAIN OR TO BE RELOCATED THAT ARE DAMAGED DURING DEMOLITION SHALL BE REPLACED WITH SIMILAR TYPE AS APPROVED BY THE OWNER, AT NO ADDITIONAL CHARGE TO THE OWNER.
- 5. IN THE EVENT THAT DEMOLITION WORK AFFECTS THE STRUCTURAL SUPPORT OF EXISTING ELECTRICAL EQUIPMENT THAT IS TO REMAIN IN SERVICE, IT SHALL BE RE-SUPPORTED IN ACCORDANCE WITH ALL APPLICABLE CODES. PROVIDE TEMPORARY SUPPORTS WHERE REQUIRED.
- 6. PROVIDE TEMPORARY WIRING AND BRANCH CIRCUITING AS NECESSARY TO MAINTAIN OPERATION OF EXISTING CIRCUITS AND SYSTEMS EXTENDING BEYOND REMODEL AREA.
- 7. UNUSED FLUSH MOUNTED DEVICES, OUTLETS AND OTHER BOXES IN FINISHED AREAS SHALL BE REMOVED FROM WALL AND THE REMAINING HOLE PATCHED TO MATCH ADJACENT WALL SURFACES. UNUSED RACEWAYS AND SLEEVES SHALL BE CUT FLUSH AT CEILING, FLOOR OR WALL AND FILLED WITH GROUT OR REQUIRED FIRE SEALANT.
- 8. PROVIDE SEALANT WHERE SPECIFIED ELSEWHERE IN DOCUMENTS. UNUSED RACEWAYS ABOVE ACCESSIBLE CEILING SHALL BE REMOVED.
- 9. ELECTRICAL MATERIAL SCHEDULED FOR REMOVAL IS TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AS PART OF THIS CONTRACT. ANY ELECTRICAL MATERIAL THE OWNER WISHES TO RETAIN TO BECOME THE PROPERTY OF THE OWNER AND TO BE REMOVED AND PLACED AT A LOCATION ON THE SITE AS DIRECTED BY THE OWNER.



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Legend

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Client/Project

WINNIPEG TRANSIT MAINTENANCE FACILITY OFFICE REDEVELOPMENT

421 OSBORNE ST. SOUTH, WINNIPEG, MB

Title

DRAWING LIST AND SYMBOL LEGEND

Project No.
115421006

Drawing No.

E-001

Scale
1/8"=1'-0"

Revision

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