

ELECTRICAL SPECIFICATIONS

1. SUPPLY AND INSTALL ALL LABOUR, MATERIAL, ETC., AS SPECIFIED AND AS MAY BE REQUIRED FOR A COMPLETE, FULLY OPERATIVE AND APPROVED ELECTRICAL INSTALLATION.
2. ALL MATERIALS SHALL BE NEW, C.S.A. APPROVED AND THE ENTIRE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE CANADIAN ELECTRICAL CODE AND WITH ALL LOCAL LAWS, RULES AND ORDINANCES.
3. OBTAIN ALL NECESSARY PERMITS AND PAY ALL FEES REQUIRED FOR THE ELECTRICAL INSTALLATION.
4. OBTAIN A CERTIFICATE OF INSPECTION AND APPROVAL FROM THE ELECTRICAL INSPECTION DEPARTMENT HAVING JURISDICTION ON COMPLETION OF THE WORK AND SUBMIT TO THE ^{CONTRACT} _{ADMINISTRATOR} PRIOR TO FINAL INSPECTION OF THE WORK.
5. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE ALL RELATED DRAWINGS AND LOCAL CONDITIONS, ETC., AFFECTING THE WORK UNDER THIS CONTRACT AND ASCERTAIN THAT ALL WORK SHOWN CAN BE SATISFACTORILY CARRIED OUT WITHOUT ADDITIONAL EXPENSE TO THE CITY. REPORT AT ONCE ANY DISCREPANCY PRIOR IN ACCORDANCE WITH B4. FAILURE TO REQUEST CLARIFICATION AND SITE VISIT SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING THE WORK AS INTENDED.
6. THE CONTRACTOR SHALL GUARANTEE ALL WORK AND EQUIPMENT INSTALLED UNDER THIS CONTRACT FOR A PERIOD OF TWELVE CALENDAR MONTHS AFTER ACCEPTANCE OF THE INSTALLATION BY THE CITY.
7. ANY CUTTING AND PATCHING IN WALLS OR FLOORS REQUIRED FOR THE ADDITION OR RELOCATION OF ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE DIVISION 16. THIS WORK SHALL BE DONE BY THE RESPECTIVE TRADES INVOLVED AND PAID THROUGH THE CONTRACTOR.
8. COORDINATE ELECTRICAL WORK WITH OTHER TRADES TO AVOID DELAYS.
9. SUPERVISE THE WORK THROUGH A RESPONSIBLE AND COMPETENT SUPERVISOR.
10. PANELBOARD, MOTOR STARTERS, DISCONNECT SWITCHES, ETC., SHALL BE PROPERLY IDENTIFIED BY MEANS OF ENGRAVED LAMICOID NAMEPLATES.
11. SUPPLY, INSTALL, WIRE AND CONNECT ALL MOTOR CONTROLS UNLESS OTHERWISE NOTED ON DRAWINGS. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EXACT MOTOR LOCATION. ALL CONTROL WORK AND WIRING SHALL BE BY DIV.16.
12. OUTLETS, WIRING OR EQUIPMENT SHALL BE REMOVED TO ANY POINT WITHIN A 10.0' RADIUS OF THE POINT SHOWN ON THE DRAWINGS WHEN RELOCATION IS REQUESTED BY THE CITY. THIS WORK SHALL BE DONE WITHOUT ANY COST PROVIDING THE REQUEST FOR RELOCATION IS MADE BEFORE THE WORK IS SUBSTANTIALLY COMPLETED.
13. CONDUITS SHALL BE ELECTRIC METALLIC TUBING UNLESS OTHERWISE NOTED ON DRAWINGS OR PROHIBITED BY REGULATIONS. CONDUITS SHALL BE CONCEALED UNLESS OTHERWISE NOTED. CONDUITS SHALL NOT BE EXPOSED IN ANY AREA WHERE CONCEALED WORK IS REQUIRED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ^{CONTRACT} _{ADMINISTRATOR}. OUTLET BOXES AND FITTINGS FOR EXPOSED CONDUIT WORK MOUNTED BELOW 82" ABOVE FINISHED FLOOR SHALL BE FS AND FD CONDULETS. CONDUITS TO BE RUN PARALLEL WITH BUILDING STRUCTURE.
14. OUTLET, JUNCTION AND SWITCH BOXES SHALL BE GALVANIZED PRESSED STEEL OF SIZE AND TYPE TO SUIT THE REQUIREMENTS OF EACH OUTLET. OUTLET BOXES SHALL BE ACCESSIBLE. SECTIONAL BOXES SHALL NOT BE USED.
15. WIRING SHALL BE COPPER OF STANDARD "AWG" SIZE WITH 600V (90 DEG. C) INSULATION. INSULATION SHALL BE X-LINK POLYETHYLENE UNLESS PROHIBITED BY REGULATIONS. MINIMUM WIRE SIZE SHALL BE #12 AWG. ALL WIRING SHALL BE CONCEALED UNLESS OTHERWISE NOTED. WIRING IN PARTITION WALLS SHALL BE BX CABLE.
16. SWITCHES SHALL BE SPECIFICATION GRADE NYLON TOGGLE SWITCHES RATED 15A, 120VOLTS, IVORY FINISH. INSTALL SWITCHES 4'- 0" A.F.F.
17. RECEPTACLES SHALL BE SPECIFICATION GRADE NYLON RECEPTACLES RATED 15A, 125 VOLTS, IVORY FINISH. INSTALL RECEPTACLES 18" A.F.F.
18. COVERPLATES FOR SWITCHES AND RECEPTACLES SHALL BE STAINLESS STEEL.
19. INDEPENDENT CONDUIT SYSTEM SHALL BE PROVIDED FOR EXIT LIGHTS.
20. SUPPLY, INSTALL, WIRE, CONNECT AND GROUND ALL INDICATED LIGHTING FIXTURES AS SHOWN ON DRAWINGS. SEE LIGHTING FIXTURES SCHEDULE ON DRAWINGS.
21. SUPPLY, INSTALL, WIRE AND CONNECT NEW DISTRIBUTION EQUIPMENT AS SHOWN ON DRAWINGS. NEW EQUIPMENT SHALL BE "CUTLER HAMMER"
22. SUPPLY, INSTALL, WIRE AND CONNECT EMERGENCY BATTERY UNIT AND LIGHTS AS INDICATED. SEE EMERGENCY BATTERY UNIT SCHEDULE FOR DETAIL.
23. WHERE CABLES OR CONDUITS PASS THROUGH FLOORS AND FIRE RATED WALLS, PACK SPACE BETWEEN WIRING AND SLEEVE WITH CODE APPROVED SEALANT.
24. THE CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES, RECEPTACLES, WIRING, CONDUITS ETC. AS REQUIRED & RETURN ALL SALVAGED EQUIPMENT TO THE CITY.
25. WIRING AND CONDUIT IN RENOVATED AREAS REQUIRED TO REMAIN IN USE FOR ANY REASON SHALL BE REROUTED, ALTERED AND/OR DIVERTED BY THE CONTRACTOR IN AN APPROVED MANNER. ANY BRANCH CIRCUIT WIRING, OUTLET, ETC. FOR ANY SYSTEM NO LONGER REQUIRED TO REMAIN IN USE SHALL BE REMOVED, OR IF THIS IS NOT POSSIBLE RENDERED PERMANENTLY INACCESSIBLE & COMPLETELY DISCONNECTED FROM PANEL.
26. SCHEDULING OF WORK IN BUILDING SHALL BE ARRANGED WITH THE CITY TO MINIMIZE DISRUPTIONS TO CITY'S OPERATION DURING NORMAL WORKING HOURS. ANY SHUTDOWNS OR INTERRUPTIONS TO SYSTEM SHALL BE AT TIMES ACCEPTABLE AND APPROVED BY CITY.
27. THE CONTRACTOR SHALL WIRE AND CONNECT ALL MECHANICAL EQUIPMENT AS INDICATED ON DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT.
28. THE CONTRACTOR SHALL PROVIDE CIRCUIT IDENTIFICATION ON EACH WIRING DEVICES & J.B.'S IN ALL AREAS. (BROTHERS LABELLER)
29. THE CONTRACTOR SHALL ARRANGE AND CO-ORDINATE WITH MANITOBA HYDRO FOR NEW SERVICE INSTALLATION. THE COMPLETE INSTALLATION SHALL BE TO THE FULL SATISFACTION OF UTILITIES. PAY ALL HYDRO CHARGES.
30. THE CONTRACTOR SHALL ARRANGE AND CO-ORDINATE WITH MTS FOR RELOCATION OF EXISTING U/G SERVICE. THE COMPLETE INSTALLATION SHALL BE TO THE FULL SATISFACTION OF UTILITIES. PAY ALL MTS CHARGES.
31. WHEN THE WORK IS COMPLETED, THE CONTRACTOR SHALL TRANSFER THE "AS-BUILT" CONDITION TO 3.5" DISK (CADD DWGS.) WITH FULL SIZE PLOTTED DWGS, SIGN EACH DWG. AS CERTIFICATION OF ACCURACY, STAMP EACH DRAWING AS BEING "AS-BUILT" AND DELIVER WITH ALL APPROVED SHOP DRAWINGS TO THE ^{CONTRACT} _{ADMINISTRATOR'S} OFFICE IN GOOD CONDITION. ORIGINAL DRAWINGS IN DISK FORMAT CAN BE OBTAINED FROM ^{CONTRACT} _{ADMINISTRATOR'S} OFFICE.

SYMBOL SCHEDULE

	FLUORESCENT FIXTURE
	WALL MTD. FLUORESCENT FIXTURE
	FIXTURE ON NIGHT LIGHT
	INCANDESCENT FIXTURE
	EXIT SIGN
	SINGLE POLE WALL SWITCH
	120V DUPLEX RECEPTACLE
	COUNTERTOP RECEPTACLE
	G.F.I. RECEPTACLE
	WEATHER-PROOF RECEPTACLE
	JUNCTION BOX AS NOTED
	EMERGENCY LIGHT
	MOTOR AS NOTED
	SPEAKER BY OTHERS
	DISCONNECT SWITCH



Certificate of Authorization

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