

ELECTRICAL SYMBOL LEGEND

Table with columns for HT AFF, SYMBOL, DESCRIPTION, and HT AFF, SYMBOL, DESCRIPTION. It lists various electrical symbols and their corresponding descriptions, including lighting, equipment, and communication symbols.

ALL DISTANCES ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE NOTED. DEVICES INDICATED AT 47" MAY NOT BE INSTALLED WITH ANY OPERABLE PART HIGHER THAN 47". DEVICES MAY BE INSTALLED IN CONCRETE MASONRY UNITS WITH THE TOP OF THE DEVICE AT 47".

ELECTRICAL DRAWINGS

Table with columns for SYMBOLS & ABBREVIATIONS, SITE PLANS, DEMOLITION PLANS, LIGHTING PLANS, POWER PLANS, SYSTEM PLANS, FIRE ALARM PLANS, COMBINED ELECTRICAL, DETAILS, DIAGRAMS, and SCHEDULES. It lists various drawing types and their corresponding symbols and abbreviations.

GENERAL ELECTRICAL NOTES

- A. THE GENERAL NOTES AS DESCRIBED HEREIN, APPLY TO ALL DRAWINGS IN THIS PACKAGE WHERE APPLICABLE.
B. PENETRATIONS IN WALLS OR SEPARATIONS, REQUIRING PROTECTED OPENINGS SHALL BE FIRESTOPPED WITH AN APPROVED MATERIAL.
C. EXPOSED WIRING SHALL NOT BE PERMITTED. WIRING SHALL BE RECESSED IN WALL, OR WHERE WALLS ARE NOT ACCESSIBLE DUE TO WALL CONSTRUCTION (CONCRETE BLOCK, CONCRETE, BRICK, ETC), PROVIDE CONDUIT AS REQUIRED TO CONCEAL SAME.
D. REFER TO ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND DETAILS, INCLUDING MILLWORK DETAILS AND SHOP DRAWINGS FOR COORDINATION OF ELECTRICAL DEVICE LOCATIONS, METHOD OF INSTALLATION & MOUNTING HEIGHTS, ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
E. PROVIDE LOCKABLE ENCLOSURES WITH COMMON KEY ON ALL STARTERS AND DISCONNECT SWITCHES LOCATED IN PUBLIC AREAS. KEYS SHALL BE HANDED OVER TO OWNER AT END OF PROJECT.
F. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 100mm (4") HIGH, 1/4" AIR ENTRAINED, POLYESTER REINFORCED CONCRETE, 100mm (4") LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ARCHITECTURAL/STRUCTURAL/ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.
G. UNLESS NOTED OTHERWISE, THE CIRCUITING INDICATED ON THE DRAWINGS IS REPRESENTATIONAL ONLY. CONFIRM CIRCUITING REQUIREMENTS ON SITE.
H. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING AND VOLTAGE DROP REQUIREMENTS, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
I. MINIMUM CONDUIT SIZE SHALL BE 21mm (3/4") UNLESS NOTED OTHERWISE.
J. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUITLINE.
K. EMPTY CONDUIT SHALL BE C/W PULL WIRE AND PLASTIC BUSHINGS.
L. ALL CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. ALL RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC.
M. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. ABOVE ACCESSIBLE CEILING WHERE NOTED.
N. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED.
O. ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6" LONG FLEXIBLE METAL CONDUIT.
P. WHERE CONNECTED TO A 20A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
Q. CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THE DRAWINGS, INCLUDING THE FOLLOWING, UNLESS NOTED OTHERWISE:
R. TELEPHONE OUTLETS, DATA OUTLETS, FIRE ALARM DEVICES SHALL CONSIST OF A BACK BOX WITH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING. SEE STUB UP DETAIL VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED. LOCATE BACK BOXES 6" FROM ADJACENT POWER RECEPTACLE INTENDED FOR COMPUTER USE.
S. CONTRACTOR SHALL BE RESPONSIBLE FOR ROUGH-IN ONLY OF THE FOLLOWING ITEMS/DEVICES UNLESS NOTED OTHERWISE:
T. TELEPHONE OUTLETS, INFORMATION OUTLETS, FIRE ALARM DEVICES: ROUGH-IN SHALL INCLUDE EMPTY 21mm (3/4") EMPTY CONDUIT COMPLETE WITH BACKBOX TO CORROSION ACCESSIBLE CEILING SPACE.
U. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.
V. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.
W. ALL NEW WIRING SHALL BE CONCEALED WHERE POSSIBLE. UTILIZE CRAWLSPACE AND/OR ACCESSIBLE CEILING SPACE TO RUN NEW WIRING AS REQUIRED AND FISH INTO WALLS/MILLWORK.
X. WHERE EXISTING WALLS ARE TO BE OPENED FOR INSTALLATION OF NEW WIRING, COORDINATE WITH GENERAL CONTRACTOR ROUTING OF SAME. ARRANGE AND PAY FOR ALL CUTTING/REPAIR/PATCHING AS REQUIRED.
Y. CIRCUIT BREAKERS SHALL MATCH EXISTING. CONFIRM SHORT CIRCUIT RATING AND TYPE ON SITE. PRIOR TO FINALIZING PRICING.
Z. UTILIZE SPARE/FREED UP CIRCUITS FROM DEMOLITION AS REQUIRED TO ACCOMMODATE THE ADDITIONAL CIRCUITING REQUIREMENTS IN THE RENOVATION.
AA. PROVIDE NEW TYPEWRITTEN PANEL DIRECTORIES TO ACCOMMODATE UPDATED CIRCUITING. NEW BREAKERS IN DISTRIBUTION PANELS SHALL BE LABELLED USING LAMACOIDS.
BB. DRAWING RECORDS OF THE EXISTING FLOOR PLANS HAVE BEEN COMPILED FROM INFORMATION SUBMITTED BY THE OWNER AND FROM SITE OBSERVATIONS AS NOTED BY THE CONSULTANT. THE ACCURACY OF THESE DRAWING RECORDS IS LIMITED TO THE EXTENT OF KNOWN CONSTRUCTION INFORMATION.
CC. CONTRACTOR SHALL INSPECT THE CONDITION OF THE EXISTING FEEDERS/WIRING/CONDUIT WITHIN THE AREA OF RENOVATION THAT ARE TO REMAIN, AND INCLUDE IN CONTRACT THE WORK REQUIRED TO BRING IT UP TO CODE. INCLUDE TRACING, RE-FEEDINGS AND PROVIDING NEW SUPPORT AS REQUIRED.
DD. CONTRACTOR SHALL ENSURE THAT CONDUIT PENETRATIONS TO TOP OF NEW AND EXISTING DISTRIBUTION EQUIPMENT IS TERMINATED UTILISING SPRINKLER PROOF METHODS, DISCONNECT AND RECONNECT WITH NEW WATER TIGHT CONNECTORS AS REQUIRED. EXISTING SURFACE MOUNTED PANELS AND DISTRIBUTION EQUIPMENT SHALL BE COMPLETE WITH APPROVED SPRINKLER PROOF HOODS AND DOORS.

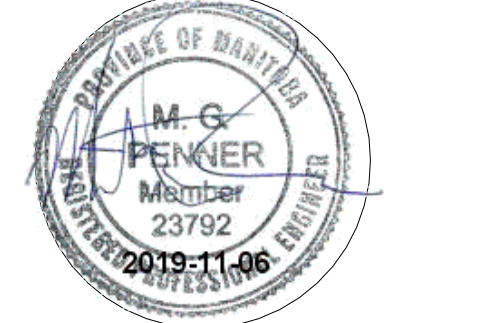
ELECTRICAL ABBREVIATIONS LIST

Table listing electrical abbreviations and their corresponding full names. Columns include abbreviations like 1P, A, AC, ACLK, ADO, AF, AFF, AFG, AFI, AFR, AHU, AL, ALT, AMP, ANPL, ANNUN, APPROX, ARCH, AS, AT, ATS, AUTO, AUX, AV, AWG, BATT, BD, BLDG, BMS, BRK, CAB, CAT, CATV, CY, CKB, CKB, CLC, COMB, CNPR, COHN, CONST, CNT, CONTR, CONV, CP, CPR, CR, CT, CTR, CU, CW and their full descriptions.

Table titled 'SPECIFIC CODE NOTES' containing fire protection requirements. It lists requirements for penetrations in walls, openings for steel electrical boxes, and light fixtures.

ELECTRICAL SYMBOL NOTES

Complex block containing electrical symbol notes and diagrams. It explains how to interpret symbols for lighting fixtures, transformers, and motor connections, including examples of how to read a symbol like 'F101' or 'T1'.



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Project: ST. JAMES CIVIC CENTRE
Drawing: ELECTRICAL SYMBOLS AND ABBREVIATIONS
Drawn By: JAW
Revision By: MP
Scale: 1:1
Tender No: 1176-2019
Date: 11/06/19
Sheet: E0.1