

PARTIAL BASEMENT FLOOR ELECTRICAL RENOVATION NOTES (FOR THIS DRAWING E2 ONLY)

SUPPLY & INSTALL NEW UNLESS OTHERWISE NOTED.

- 1
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- 6
- WIRING FROM BASEMENT PANEL BOARD 'E', CIRCUIT #40. PROVIDE 120 VAC, DEDICATED 20 AMP BREAKER TO MAIN FLOOR STAIRWAY 103 WHEELCHAIR INCLINE PLATFORM LIFT BOTTOM RAIL POWER CONNECTION POINT. ACTUAL LOCATION THROUGH FLOOR TP BE CONFIRMED WITH CONTRACT ADMINISTRATOR & FINAL PLATFORM LIFT INSTALLATION.
- RECONNECT & REINSTALL ALL CONDUITS, WIRING & JUNCTION BOXES REMOVED FROM DEMOLITION WORK INCLUDING HEAT DETECTOR. SUPPLY & INSTALL COVER PLATES (TO SUIT) ON ALL EXISTING EXPOSED JUNCTION BOXES AS REQUIRED. ALSO SEE DEMOLITION DRAWING.
- CEILING MOUNT 4" X 4" X 2" ELECTRICAL POWER BOX FOR FUTURE EXTERIOR DOOR CARD ACCESS. RUN CONDUIT (ONLY) FROM POWER BOX TO RECESSED DEVICE BOX WITHIN EXTERIOR BOLLARD POST.
- EMT RISER & WIRING FROM EXISTING FRONT ENTRANCE CONTROL BUZZER AT MAIN FLOOR RECEPTIONIST DESK TO NEW EXTERIOR WEATHERPROOF INTERCOM & CALL BUZZER.
- SUPPLY & INSTALL 15AMP CIRCUIT BREAKER & WIRING TO AUTOMATIC POWER DOOR OPERATORS, DO-01 & DO-02, INCLUDING ASSOCIATED WIRING TO DOOR ACTIVATION SWITCHES, ELECTRIC STRIKE & DOOR CONTACTS.
- EMT RISERS & WIRING FROM EXTERIOR BOLLARD POST ENCLOSED DOOR BUZZER & INTERCOM TO RECEPTION DESK INTERCOM & DOOR BELL.

ELECTRICAL SPECIFICATIONS

PART 1 - ELECTRICAL GENERAL CONDITIONS

1.1 GENERAL

- A.
- THE SPECIFICATION COVERS THE GENERAL CONDITIONS OF THE CONTRACT. GENERAL SPECIFICATIONS, INSTRUCTIONS TO BIDDERS AND ALL ASSOCIATED SECTIONS & DRAWINGS FORM AN INTEGRAL PART OF THIS SPECIFICATION AND SHALL BE READ IN CONJUNCTION HEREWTH.

1.2 SCOPE

- A.
- PROVIDE ALL MATERIALS, LABOUR, PLANT AND EQUIPMENT REQUIRED FOR A COMPLETE AND WORKING INSTALLATION AS HEREIN SPECIFIED AND AS SHOWN ON THE DRAWINGS.
- B.
- THE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE CANADIAN ELECTRICAL CODE, AND ALL PROVINCIAL AND MUNICIPAL CODES AND REGULATIONS.
- C.
- SUBMIT TO THE ELECTRICAL INSPECTION DEPARTMENT THE NECESSARY NUMBER OF DRAWINGS AND SPECIFICATIONS FOR EXAMINATION AND APPROVAL PRIOR TO THE COMMENCEMENT OF WORK.
- D.
- OBTAIN ALL NECESSARY PERMITS AND APPROVALS AND PAY ALL RELATED FEES REQUIRED FOR THIS INSTALLATION.
- E.
- ALL EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE NEW AND SHALL BE C.S.A. APPROVED.

1.3 COORDINATION WITH OTHER TRADES

- A.
- REFER TO MECHANICAL, STRUCTURAL AND ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL ELECTRICAL WORK IN CONNECTION WITH OTHER DIVISIONS WHERE SUCH WORK IS INCLUDED IN OTHER SECTIONS OF THE SPECIFICATIONS. PROVIDE LABOUR, EQUIPMENT, CONDUIT, WIRING, ETC. AS REQUIRED FOR OPERATION OF THE SPECIFIED EQUIPMENT.
- B.
- SCHEDULE EXECUTION OF ELECTRICAL WORK WITH ASSOCIATED WORK SPECIFIED IN OTHER DIVISIONS.
- C.
- COORDINATE ELECTRICAL WORK WITH WORK OF OTHER TRADES TO AVOID CONFLICTS WITH PIPES, AIR DUCTS OR OTHER EQUIPMENT. PROVIDE ADDITIONAL SUPPORTS, WIRING, ETC. TO RELOCATE ELECTRICAL EQUIPMENT AS REQUIRED WHERE STRUCTURAL MEMBERS, AIR DUCTS, PIPING OR OTHER EQUIPMENT INTERFERES WITH ELECTRICAL INSTALLATION.

1.4 EXAMINATION OF SITE AND CONSTRUCTION DOCUMENTS

- A.
- PRIOR TO SUBMITTING A BID OPPORTUNITY, EXAMINE THE SITE AND LOCAL CONDITIONS WHICH WILL AFFECT THE WORK. REPORT ANY DISCREPANCIES TO THE CITY PRIOR TO COMMENCING ANY WORK. CLAIMS FOR EXTRA PAYMENTS RESULTING FROM CONDITIONS WHICH COULD REASONABLE BE FORESEEN FROM EXAMINATION OF THE DOCUMENTS AND/OR SITE WILL NOT BE RECOGNIZED.

1.5 SUPERVISION

- A.
- SUPERVISE THE WORK AT ALL TIMES THROUGH A RESPONSIBLE AND COMPETENT SUPERVISOR
- B.
- FULL COOPERATION SHALL BE SHOWN WITH OTHER TRADES TO FACILITATE INSTALLATIONS AND AVOID DELAYS IN CARRYING OUT THE WORK.

1.6 ACCURACY OF DATA

- A.
- DRAWINGS ARE SCHEMATIC. EXACT LOCATIONS, DISTANCES, LEVELS AND OTHER DIMENSIONS SHALL BE GOVERNED BY THE BUILDING AS CONSTRUCTED.
- B.
- OUTLETS OR EQUIPMENT SHALL BE MOVED TO ANY POINT WITHIN A 10' RADIUS WHEN RELOCATION IS REQUESTED BY THE CITY BEFORE THE WORK HAS BEEN SUBSTANTIALLY COMPLETED, WITHOUT ADDITIONAL COST.

1.7 APPROVAL OF MATERIAL

- A.
- REQUEST FOR APPROVAL OF MATERIAL AS EQUALS OR ALTERNATES TO THAT SPECIFIED SHALL BE SUBMITTED IN ACCORDANCE WITH B6.

1.8 SHOP DRAWINGS

- A.
- SUBMIT SHOP DRAWINGS OF ELECTRICAL EQUIPMENT TO THE CITY FOR REVIEW. FABRICATION OF THE EQUIPMENT SHALL NOT COMMENCE UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY THE CONTRACT ADMINISTRATOR. FIVE (5) SETS SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR FOR APPROVAL.

1.9 RECORD DRAWINGS

- A.
- KEEP A RECORD SET OF DRAWINGS ON THE SITE AT ALL TIMES RECORDING ALL CHANGES THAT MAY OCCUR. SUBMIT THESE DRAWINGS TO THE CITY. UPON COMPLETION OF THE WORK.
- B.
- SUBMIT A CERTIFICATE OF INSPECTION FROM THE LOCAL INSPECTION AUTHORITY UPON COMPLETION OF THE WORK.
- C.
- ELECTRICAL SUBCONTRACTOR TO PAY FOR AND BE RESPONSIBLE FOR THE REPRODUCTION OF RECORD DRAWINGS.
- D.
- WHERE ORIGINAL DRAWINGS HAVE BEEN PRODUCED ON ACAD, RECORD DRAWINGS ARE TO BE ON CAD. THE CAD SYSTEM MUST BE COMPATIBLE WITH THAT USED TO PRODUCE ORIGINAL DRAWINGS. ELECTRICAL SUBCONTRACTOR TO PROVIDE CITY WITH ELECTRONIC COPY OF COMPLETED RECORD DRAWINGS, OR PAY THE CITY TO PRODUCE CAD DRAWINGS.

1.10 TEST

- A.
- THE ELECTRICAL INSTALLATION SHALL BE COMPLETELY TESTED DEMONSTRATING THAT THE EQUIPMENT AND SYSTEMS INSTALLED PERFORMED IN MANNER INTENDED.

1.11 NOT APPLICABLE

1.12 GROUNDING

- A.
- THE ENTIRE INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE.

1.13 WORKMANSHIP

- A.
- INSTALL EQUIPMENT, CONDUIT AND CABLES IN A MANNER TO PRESENT A NEAT APPEARANCE TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- B.
- INSTALL CONDUIT AND CABLE RUNS PARALLEL AND PERPENDICULAR IN CHASES BEHIND FURNITURE OR CEILINGS WHERE SUCH CONCEALMENT IS POSSIBLE. IN AREAS WHERE SYSTEMS ARE TO BE EXPOSED, INSTALL NEATLY AND GROUP TO PRESENT A TIDY APPEARANCE.
- C.
- INSTALL EQUIPMENT REQUIRING MAINTENANCE, ADJUSTMENT OR EVENTUAL REPLACEMENT WITH ADEQUATE CLEARANCES AND ACCESSIBILITY FOR SAME. INCLUDE, IN THE WORK, ALL REQUIREMENTS SHOWN ON THE SHOP DRAWINGS OR MANUFACTURES INSTALLATION INSTRUCTIONS.
- D.
- REPLACE WORK UNSATISFACTORY TO THE CITY WITHOUT EXTRA COST. REPLACEMENT WITH ADEQUATE CLEARANCES AND ACCESSIBILITY FOR SAME. INCLUDE, IN THE WORK, ALL REQUIREMENTS SHOWN ON THE SHOP DRAWINGS OR MANUFACTURES INSTALLATION INSTRUCTIONS.

1.14 WORK IN EXISTING BUILDING

- A.
- THE BUILDING SHALL REMAIN OPEN AND IN NORMAL OPERATION DURING THE CONSTRUCTION PERIOD OF THIS CONTRACT. COMPLY WITH CONTRACT ADMINISTRATOR'S INSTRUCTIONS REGARDING ACCEPTABLE WORKING HOURS ON PROJECT AND HOURS DURING WHICH POWER SHUTDOWN IS PERMISSIBLE.
- B.
- WHERE EXISTING SERVICES SUCH AS ELECTRICAL POWER, FIRE, ALARM SYSTEM, TELEPHONE SYSTEM, ETC. ARE REQUIRED TO BE DISRUPTED AND/OR SHUTDOWN CO-ORDINATE THE SHUTDOWNS WITH THE CONTRACT ADMINISTRATOR AND CARRY OUT THE WORK AT A TIME AND IN A MANNER ACCEPTABLE TO THEM. SCHEDULE ALL DISRUPTIONS AND/OR SHUTDOWNS AND ENSURE THAT THE DURATION OF SAME IS KEPT TO A MINIMUM. SUBMIT FOR APPROVAL A WRITTEN SCHEDULE OF EACH DISRUPTION AT LEAST 72 HOURS IN ADVANCE OF PERFORMING WORK AND OBTAIN CITY'S WRITTEN CONSENT PRIOR TO IMPLEMENTING.
- C.
- SHOULD ANY CONNECTIONS BE REQUIRED TO MAINTAIN SERVICES DURING WORK IN THE EXISTING BUILDING, SUPPLY AND INSTALL ALL NECESSARY MATERIAL AND EQUIPMENT AND PROVIDE ALL LABOUR AT NO EXTRA COST. SHOULD ANY EXISTING SYSTEM BE DAMAGED, MAKE FULL REPAIRS WITHOUT EXTRA COST, AND TO THE SATISFACTION OF THE CITY.
- D.
- THE DRAWINGS INDICATE MAJOR ITEMS OF EQUIPMENT TO BE DELETED OR RELOCATED BUT MAY NOT INDICATE EVERY ITEM OF EQUIPMENT OR CONDUIT TO BE DELETED OR RELOCATED. BE RESPONSIBLE FOR DETERMINING WHICH EXISTING EQUIPMENT IS TO BE DELETED OR RELOCATED BY EXAMINING THE SITE AND CONSTRUCTION DOCUMENTS.

1.15 CUTTING AND PATCHING

- A.
- PAY THE COSTS OF ALL CUTTING AND PATCHING FOR INSTALLATION OF ELECTRICAL WORK.
- B.
- CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL WORK SHALL BE DONE BY THE PARTICULAR TRADE WHOSE WORK IS INVOLVED. NO CUTTING OR PATCHING SHALL BE CARRIED OUT BY THE TRADESMAN EMPLOYED ON THE ELECTRICAL WORK.
- C.
- OBTAIN THE APPROVAL OF THE CONTRACT ADMINSTRATOR BEFORE ARRANGING FOR ANY CUTTING, PATCHING SHALL RESTORE THE AFFECTED AREA TO THE ORIGINAL CONDITION. MATERIALS AND METHODS USED FOR PATCHING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CORRESPONDING DIVISIONS.

1.16 ACCESS DOORS

- A.
- PROVIDE ACCESS DOORS IN INACCESSIBLE CONSTRUCTION TO GIVE ACCESS TO ALL CONCEALED JUNCTION BOXES, PULL BOXES, CONDUCTOR JOINTS AND OTHER SIMILAR ELECTRICAL WORK WHICH MAY REQUIRE MAINTENANCE OR REPAIR. BE COMPLETE WITH FLUSH FRAME AND ANCHOR, CONCEALED HINGES, POSITIVE LOCKING SCREWDRIVER LOCK, AND MOUNTING AND FINISHING PROVISIONS TO SUIT THE FINISH MATERIAL FOR WHICH THEY ARE SUPPLIED. ACCESS DOORS TO BE INSTALLED BY THE DIVISION RESPONSIBLE FOR THE PARTICULAR TYPE OF CONSTRUCTION IN WHICH ACCESS DOORS ARE REQUIRED. SUPPLY THE ACCESS DOORS TO THE DIVISION INSTALLING SAME AT THE PROPER TIME TO AVOID CONSTRUCTION DELAYS.

PART 2 - MATERIALS AND INSTALLATION

2.1 OUTLET BOXES

- A.
- OUTLET, JUNCTION AND DISCONNECT SWITCH BOXES SHALL BE GALVANIZED PRESSED STEEL OF SIZE AND TYPE TO SUIT EACH INDIVIDUAL APPLICATION.

2.2 WIRING METHODS

- A.
- UNLESS OTHERWISE SHOWN ON THE DRAWINGS, ALL WIRE SHALL BE COPPER, MINIMUM #12 WITH 90 DEGREES CELSIUS X-LINK INSULATION.
- B.
- ALL WIRING IN FINISHED AREAS SHALL BE CONCEALED. CONDUITS SHALL BE RUN AT RIGHT ANGLES TO THE BUILDING LINES.
- C.
- CABLES SHALL BE GROUPED WHERE POSSIBLE AND CLIPPED IN A NEAT AND WORKMANSHIP MANNER.

2.3 CONDUIT

- A.
- USE ELECTRICAL METALLIC TUBING (EMT) EXCEPT WHERE NOTED OTHERWISE. WIRING HOMERUNS TO PANELS AND MAIN BRANCH WIRING IN CEILING SPACES TO BE RUN IN CONDUIT.
- B.
- USE FLEXIBLE METAL CONDUIT FOR CONNECTION TO MOTORS, TRANSFORMERS, AND EQUIPMENT SUBJECT TO MOVEMENT OR VIBRATION. PROVIDE A SEPARATE INSULATED GROUND CONDUCTOR WITHIN FLEXIBLE CONDUIT.
- C.
- USE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR CONNECTION TO EQUIPMENT DESCRIBED ABOVE WHERE EXPOSED TO WET OR CORROSIVE CONDITIONS.

2.4 FASTENING AND SUPPORTS


- A.
- PROVIDE METAL BRACKETS, FRAMES, HANGERS, CLAMPS AND RELATED TYPE OF SUPPORT STRUCTURES WHERE INDICATED OR AS REQUIRED TO SUPPORT CONDUIT AND CABLE RUNS.

NOTES :

ALSO SEE ELECTRICAL NOTES ON DRAWING E1 & ARCHITECTURAL DRAWINGS.

NO.	REVISION/DESCRIPTION	BY	DATE
SEALS			

DRAWN BY	RCP/DTA	CHECKED BY	APPROVED
DATE	2010.11.12	USER APPROVAL	

CITY OF WINNIPEG  
PLANNING, PROPERTY AND  
DEVELOPMENT DEPARTMENT  
MUNICIPAL ACCOMMODATIONS DIVISION  
300 - 65 GARRY ST. R3C 4K4

PROJECT  
ARCHIVES BUILDING  
INTERIOR RENOVATIONS  
& BARRIER FREE LIFT INSTALLATION  
380 WILLIAM AVE.

SHEET	TITLE
PARTIAL BASEMENT FLOOR PLAN - ELECTRICAL RENOVATION & SPECIFICATIONS	

SCALE	PROJECT NO.	SHEET NO.
AS SHOWN	2008-079-03	E2