

1. GENERAL

- 1.1. REQUIREMENTS, INSTRUCTIONS TO BIDDERS, THIS SPECIFICATIONS AND ANY ADDENDA HERETO FORM PART OF THE CONTRACT DOCUMENTS AND SHALL BE READ IN CONJUNCTION WITH THEM. WORK TO INCLUDE THE FURNISHING OF ALL LABOR AND MATERIALS UNLESS OTHERWISE SPECIFIED OTHERWISE TO COMPLETE AND PUT INTO OPERATING CONDITIONS ALL ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
- 1.2. RESPONSIBILITY AS TO WHICH TRADES PROVIDES REQUIRED ARTICLES OR MATERIAL RESTS SOLELY WITH THE GENERAL CONTRACT TRADE. EXTRAS WILL NOT BE CONSIDERED BASED ON GROUNDS OF DIFFERENCE OF INTERPRETATION OF SPECIFICATIONS AS TO WHICH TRADE INVOLVED SHALL PROVIDE CERTAIN SPECIALITIES OR MATERIALS.
- 1.3. EXAMINE SITE, LOCAL CONDITIONS, DRAWINGS FOR FACTORS AFFECTING WORK TO WHICH DRAWINGS APPLY TO ENSURE THAT WORK CAN SATISFACTORY BR CARRIED OUT WITHOUT CHANGES TO DRAWINGS. NO ALLOWANCES WILL BE MAKE LATER FOR ANY EXPENSE INCURRED THROUGH FAILURE TO MAKE THIS EXAMINATION. START OF WORK WILL DEEMED EVIDENCE OF, ACCEPTANCE OF, AND SATISFACTION WITH SITE, LOCAL CONDITIONS, AND DRAWINGS.
- 1.4. MUST: THIS WORD, OR THE TERMS "REQUIRED" OR "SHALL", MEAN THAT THE DEFINITION IS AN ABSOLUTE REQUIREMENT OF THE SPECIFICATION. PROVIDE TO MEAN "SUPPLY & INSTALL."
- 2. DRAWINGS AND SPECIFICATIONS
 - 2.1. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER AND WHAT IS CALLED FOR BY ONE TO BE BINDING AS IF CALLED FOR BY OTHER.
 - 2.2. SHOULD ANY DISCREPANCY APPEAR BETWEEN DRAWINGS AND SPECIFICATIONS WHICH LEAVES ELECTRICAL CONTRACTOR IN DOUBT AS TO TRUE INTENT AND MEANING, OBTAIN RULING BEFORE SUBMITTING TENDER. IF THIS IS NOT DONE, IT WILL BE ASSUMED THAT THE MOST EXPENSIVE ALTERNATE HAS BEEN FIGURED.
- 3. EXAMINATION OF OTHER DRAWINGS
 - 3.1. THIS CONTRACTOR TO EXAMINE CAREFULLY STRUCTURAL, ARCHITECTURAL AND MECHANICAL DRAWINGS AND WORK OF OTHER TRADES AND SATISFY HIMSELF THAT THE WORK UNDER THIS CONTRACT CAN BE SATISFACTORY CARRIED OUT WITHOUT CHANGES TO THE BUILDING AS SHOWN ON THE PLANS. SHOULD ANY DIFFICULTY ARISE SHOWING CONFLICT WITH, OR REQUIRING ADDITIONAL WORK BEYOND THE WORK OF THESE DRAWINGS, BRING THIS MATTER TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR BEFORE SUBMITTING TENDER.
- 4. UNIFORMITY OF EQUIPMENT
 - 4.1. UNLESS OTHERWISE SPECIFIED, UNIFORMITY OF MANUFACTURER TO BE MAINTAINED FOR ANY PARTICULAR ITEM THROUGHOUT.
- 5. STANDARDS OF MATERIAL AND WORKMANSHIP
 - 5.1. ALL MATERIALS TO BE NEW AND OF THE QUALITY SPECIFIED AND CONFORM TO THE STANDARDS OF THE CSA. WHERE EQUIPMENT OR MATERIALS ARE SPECIFIED BY TECHNICAL DESCRIPTION ONLY, THEY SHALL BE OF THE BEST COMMERCIAL QUALITY OBTAINABLE FOR THE PURPOSE.
 - 5.2. ALL WORK TO BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER BY QUALIFIED TRADESMEN. ELECTRICAL CONTRACTOR TO KEEP A COMPETENT FOREMAN AND NECESSARY ASSISTANTS ON THE JOB DURING THE PROGRESS OF THE WORK.
 - 5.3. ALL MATERIAL AND INSTALLATION SHALL MATCH BUILDING STANDARD UNLESS IT IS NOTED ON THE DRAWINGS.
- 6. RECORD PLANS & DIGITAL PHOTOGRAPHS
 - 6.1. THE CONTRACT ADMINISTRATOR WILL FURNISH TO THE ELECTRICAL CONTRACTOR A PORTABLE DOCUMENT FORMAT "PDF" DRAWING SET TO BE USED FOR RECORD PURPOSES. ALL REVISIONS MADE ON SITE DURING CONSTRUCTION TO BE ACCURATELY RECORDED.
 - 6.2. ELECTRICAL CONTRACTOR TO PRODUCE AT HIS OWN EXPENSE A SET OF AUTOCAD DRAWINGS INCLUDING ALL CHANGES TO THE ORIGINAL TENDER DRAWINGS COVERED BY ADDENDA, CHANGE ORDER, FIELD CHANGES, JOB CONDITIONS ETC., AND TURN THESE OVER TO THE CONTRACT ADMINISTRATOR IN ELECTRONIC AND HARD COPY FORM. COMPLETED RECORD DRAWINGS TO BE CLEARLY MARKED "RECORD DRAWINGS".
 - 6.3. SHOW ALL MAJOR, JUNCTION BOXES, CORE HOLES, CONDUIT HOME RUNS AND CIRCUIT NUMBERS ON AS-BUILT DRAWINGS.
 - 6.4. PROVIDE THREE COPIES OF MAINTENANCE MANUALS TO INCLUDE ALL NEW ELECTRICAL EQUIPMENT SUCH AS: LIGHT FIXTURES, EXIT LIGHTS, BATTERY UNITS, LIGHTING CONTROLS, PANELS, TRANSFORMERS.
 - 6.5. INCLUDE COPIES OF COMPUTER PRINTED PANEL DIRECTORIES FOR ALL PANELS.
 - 6.6. PROVIDE AS-BUILT DRAWINGS AND MANUALS TO BUILDING MANAGEMENT AT TIME OF COMPLETION. DRAWINGS AND MANUALS SHALL BE REVIEWED FOR ACCURACY BY CONTRACT ADMINISTRATOR AT COMPLETION.
 - 6.7. ELECTRICAL CONTRACTOR TO MAINTAIN DIGITAL PHOTOGRAPH RECORDS OF ALL ELECTRICAL INSTALLATION PRIOR TO CONCEALMENT. DIGITAL PHOTOGRAPHS TO HAVE LEGIBLE BUILDING REFERENCE POINTS FOR IDENTIFICATION. PROVIDE THE DIGITAL PHOTOGRAPHS AS PART OF THE AS-BUILT DRAWINGS IN ORIGINAL DIGITAL FORMAT.
- 7. SHOP DRAWINGS
 - 7.1. ELECTRICAL CONTRACTOR TO SUBMIT TO THE CONTRACT ADMINISTRATOR FOR REVIEW, SHOP DRAWINGS OF ELECTRICAL COMPONENTS INDICATED ON DRAWINGS IDENTIFIED AND TO INCLUDE ALL SPECIFIC SITE REQUIREMENTS & INSTALLATION REQUIREMENTS REQUIRED BY THE MANUFACTURER FOR THIS PROJECT.
 - 7.2. ALL DRAWINGS TO BE SUBMITTED IN ELECTRONIC FORMAT. ALLOW AT LEAST FOR TEN WORK DAYS

FOR SHOP DRAWINGS REVIEW.

- 7.3. CONTRACT ADMINISTRATOR'S REVIEW OF SHOP DRAWINGS TO BE FOR GENERAL DESIGN ONLY AND WILL NOT RELIEVE ELECTRICAL CONTRACTOR OR SUPPLIERS FROM RESPONSIBILITY FOR ERRORS, PROPER FITTING, CONSTRUCTION OF WORK AND FURNISHING OF MATERIALS. REVIEW WILL NOT BE CONSTRUED AS APPROVING DEPARTURES FROM CONTRACT DOCUMENT REQUIREMENTS IF SUCH DEPARTURES ARE NOT SPECIFICALLY NOTED. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS.
- 7.4. ALL EXTRA COSTS ASSOCIATED WITH AN ALTERNATE PRODUCT THAT IS SPECIFIED IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. EXTRAS RESULTING FROM THE LACK OF AN ALTERNATIVE PRODUCT TO MATCH SPECIFIED PRODUCT WILL NOT BE CONSIDERED.
- 8. GUARANTEE WARRANTY
 - 8.1. FURNISH A WRITTEN GUARANTEE WARRANTY COUNTERSIGNED AND GUARANTEED BY GENERAL CONTRACT TRADE STATING:
 - 8.1.1. THAT ALL WORK EXECUTED UNDER THIS CONTRACT WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
 - 8.1.2. THE ABOVE PARTIES FURTHER AGREE TO, AT THEIR OWN EXPENSE, REPAIR AND REPLACE ALL SUCH DEFECTIVE WORK AND OTHER WORK DAMAGED THEREBY WHICH FAILS OR BECOMES DEFECTIVE DURING THE TERM OF GUARANTEE WARRANTY PROVIDED THAT SUCH FAILURE IS NOT DUE TO IMPROPER USAGE.
 - 8.1.3. PERIOD OF THE GUARANTEE SPECIFIED TO BE IN NO WAY SUPPLANT ANY OTHER GUARANTEE OF A LONGER PERIOD BUT BE BINDING ON WORK NOT OTHERWISE COVERED.
- 9. SETTING OUT OF THE WORK
 - 9.1. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR CORRECTING ALL WORK COMPLETED CONTRARY TO INTENT OF DRAWINGS AND SPECIFICATIONS AND BEAR ALL COST FOR THE SAME. WHERE INTENT OF DRAWINGS AND SPECIFICATIONS IS NOT CLEAR, OBTAIN CLARIFICATION BEFORE PROCEEDING WITH WORK.
 - 9.2. ELECTRICAL CONTRACTOR TO GIVE WORK HIS PERSONAL SUPERVISION LAY OUT HIS OWN WORK, DO ALL NECESSARY LEVELING AND MEASURING OR EMPLOY A COMPETENT CONTRACT ADMINISTRATOR TO DO SO, FIGURES, FULL SIZE AND DETAIL DRAWINGS TO TAKE PRECEDENT OVER SCALE MEASUREMENTS.
 - 9.3. WHERE ANY EQUIPMENT SUPPLIED BY ELECTRICAL CONTRACTOR MUST BE BUILT IN WITH WORK OF OTHER CONTRACTOR, THIS CONTRACTOR TO BE RESPONSIBLE FOR SUPPLYING THE EQUIPMENT TO BE BUILT IN OR MEASUREMENTS TO ALLOW NECESSARY OPENING TO BE LEFT SO AS NOT TO HOLD UP WORK.
 - 9.4. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THEM AND/OR BY ANY OTHER ELECTRICAL SUB-TRADE BY IMPROPER LOCATION OR CARRYING OUT OF HIS WORK
 - 9.5. ELECTRICAL CONTRACTOR IN SETTING OUT OF HIS WORK, TO MAKE REFERENCE TO ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS. CONSULT WITH RESPECTIVE TRADES IN SETTING OUT LOCATIONS FOR CONDUIT RUNS, LIGHTING FIXTURES, PANEL ASSEMBLIES, AND THE LIKE, SO THAT CONFLICTS ARE AVOIDED AND SYMMETRICAL SPACING IS MAINTAINED.
 - 9.6. WHERE RECEPTACLES ARE MOUNTED ABOVE COUNTERS, BENCHES, SPLASHBACKS, AND THE LIKE, LOCATION AND MOUNTING HEIGHTS TO BE COORDINATED WITH BUILT-IN UNITS. REFER TO ARCHITECTURAL DETAILS. WHERE RECEPTACLES OCCUR IN OUTSIDE WALLS WHERE HEATING UNITS OCCUR, RECEPTACLE HEIGHT TO BE ADJUSTED TO COORDINATE WITH THE HEATING UNIT.
 - 9.7. ELECTRICAL CONTRACTOR TO COORDINATE ANY INTERRUPTIONS TO ADJOINING TENANTS IN ORDER TO AVOID ANY INCONVENIENCES TO SAID TENANT. IF NECESSARY ELECTRICAL CONTRACTOR TO DO ANY REQUIRED CONNECTIONS ON OFF HOURS.
 - 9.8. SWITCH MOUNTING HEIGHTS TO BE COORDINATED WITH ARCHITECTURAL DETAILS AND TO BE ADJUSTED IF REQUIRED, TO COORDINATE WITH PANELING, MASONRY COURSE LINES AND THE LIKE.
 - 9.9. WHERE OUTLETS OCCUR IN EXTERIOR WALLS, ELECTRICAL CONTRACTOR TO ENSURE THAT THERE IS INSULATION BEHIND THE OUTLET BOXES TO PREVENT CONDENSATION THROUGH THE BOXES.
- 10. EXAMINATION OF SITE
 - 10.1. PRIOR TO SUBMITTING TENDER, ELECTRICAL CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND ASCERTAIN ALL CONDITIONS WHICH MAY AFFECT HIS TRADE. NO EXTRAS WILL BE ALLOWED FOR WORK RESULTING FROM CONDITIONS WHAT WOULD HAVE BEEN EVIDENT UPON A THROUGH EXAMINATION OF SITE.
- 11. CLEANUP
 - 11.1. ELECTRICAL CONTRACTOR AND HIS SUBTRADES AT ALL TIMES DURING CONSTRUCTION, KEEP SITE FREE OF ALL DEBRIS, BOXES, PACKING AND THE LIKE RESULTING FROM WORK OF THIS TRADE.
 - 11.2. UPON COMPLETION OF WORK, ELECTRICAL INSTALLATION TO BE LEFT IN A CLEAN AND FINISHED CONDITION TO SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- 12. ACCESS DOORS
 - 12.1. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ACCESS DOORS REQUIRED FOR PROPER SERVICING OF ALL ELECTRICAL WORK. ACCESS DOORS TO BE COMPLETE WITH NECESSARY FRAMES AND HINGED DOORS HELD CLOSED WITH CAPTIVE STUDS. ACCESS PANELS TO BE OF NOT LESS THAN 14 GAUGE STEEL, PRIME COATED FINISHED AND PAINTED ON THE JOB TO MATCH THE WALL OR CEILING FINISH.
- 13. CODES, PERMITS AND INSPECTION
 - 13.1. INSTALLATION TO COMPLY WITH REQUIREMENTS OF BUILDING CODES AND CANADIAN ELECTRICAL CODE AND REGULATIONS OF THE INSPECTION DEPARTMENT.
 - 13.2. ELECTRICAL CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED AND AFTER COMPLETION OF THE WORK

FURNISH TO THE CONTRACT ADMINISTRATOR A CERTIFICATE OF FINAL INSPECTION AND APPROVAL FROM ELECTRICAL INSPECTION DEPARTMENT.

14. MECHANICAL EQUIPMENT

- 14.1. UNLESS OTHERWISE, ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL CONDUIT AND WIRE, FITTINGS AND CONNECTIONS FOR ALL MECHANICAL EQUIPMENT. MOTOR PROTECTION SWITCHES COMPLETE WITH OVERLOAD RELAYS, AND OTHER REQUIRED PARTS TO COMPLETE THE JOB TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO CONFIRM WITH MECHANICAL TRADE SIZE, CHARACTERISTICS AND LOCATIONS OF ALL MECHANICAL EQUIPMENT BEFORE INSTALLATION OF CONDUIT, OUTLETS, HEATERS, AND THE LIKE. ELECTRICAL CONTRACTOR TO EXAMINE MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT REQUIRES ELECTRICAL CONTRACTOR RELATED INSTALLATIONS. NOT ALL MECHANICAL REQUIREMENT ARE NOTED ON ELECTRICAL DRAWINGS.

15. TESTS

- 15.1. ALL PORTIONS OF ELECTRICAL WORK TO BE TESTED AND CHECKED FOR SATISFACTORY INSTALLATION AND OPERATION. USE STANDARD INDUSTRY FORMS. PRESENT TEST RECORDS TO THE CONTRACT ADMINISTRATOR UPON REQUEST.
- 15.2. BEFORE ENERGIZING ANY PORTION OF ELECTRICAL SYSTEM, PERFORM MEGGER TESTS ON ALL FEEDERS AND BRANCH CIRCUITS. RESULTS OF SUCH TESTS TO CONFORM TO REQUIREMENTS OF CANADIAN ELECTRICAL CODE AND BE TO SATISFACTION OF AUTHORIZED INSPECTION AGENCY AND THE CONTRACT ADMINISTRATOR. KEEP DATED TEST LOGS AND PRESENT TO THE CONTRACT ADMINISTRATOR UPON REQUEST.
- 15.3. UPON COMPLETION AND IMMEDIATELY PRIOR TO FINAL INSPECTION AND TAKEOVER, CHECK LOAD BALANCE ON ALL FEEDERS AND AL DISTRIBUTION CENTERS, PANELS, AND THE LIKE. TEST TO BE CARRIED OUT BY TURNING ON ALL POSSIBLE LOADS AND CHECKING LOAD CURRENT BALANCE. IF LOAD UNBALANCE EXCEEDS 15% RECONNECT CIRCUITS TO BALANCE LOAD.

16. COMMISSIONING

- 16.1. PLAN, ORGANIZE, AND HIRE A THIRD PARTY TO IMPLEMENT A CONTRACTOR PREPARED COMMISSIONING PLAN WITH A DEFINED SCHEDULE FOR ALL ELECTRICAL AND RELATED MECHANICAL SYSTEMS.
- 16.2. COMMISSIONING PLAN SHALL INCLUDE AS MINIMUM THE FOLLOWING: INSTALLATION CHECKLISTS, START-UP CHECKLISTS, VERIFICATION, SHEETS AND INTEGRATED TESTING TESTING SHEETS.
- 16.3. SUPPLY COMPLETE INSTRUCTIONS AND INFORMATION RELATING TO THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND SYSTEMS.
- 16.4. DELIVER A SYSTEM WHICH PERFORMS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND EQUIPMENT MANUFACTURER'S REQUIREMENTS.

17. PAINTING AND FINISHES

- 17.1. ALL ELECTRICAL FITTINGS, SUPPORT, HANGER RODS, PULLBOXES, CHANNEL FRAMES, CONDUIT RACKS, OUTLET BOXES, BRACKETS, CLAMPS AND ALL OTHER SIMILAR COMPONENTS OF THE ELECTRICAL INSTALLATION TO HAVE GALVANIZED FINISH OR PAINT FINISH OVER CORROSION-RESISTANCE PRIMER.
- 17.2. ALL PANEL TO BE FACTORY FINISHED WITH SPRAY-ON AIR DRAY ENAMEL. ALL ENAMEL TO BE APPLIED OVER CORROSION-RESISTANCE PRIMER. MATT OR FLAT TYPE FINISH PAINT WILL NOT BE ACCEPTED. ALL PANELS OR SIMILAR FACTORY FINISHED UNITS THAT ARE SCRATCHED OR MARKED DURING INSTALLATION TO BE TOUCHED UP WITH MATCHING SPRY-ON AIR DRY LACQUER AND IF REQUIRED TO PROVIDE SATISFACTORY JOB TO BE COMPLETELY REFINISHED.
- 17.3. ALL PANELBOARDS, PULLBOXES AND THE LIKE TO BE FINISHED IN GRAY ENAMEL.
- 17.4. PULLBOXES, JUNCTIONBOXES, TERMINAL PANELS, AND THE LIKE TO BE FINISHED IN ACCORDANCE WITH EXISTING BUILDING.

18. CONDUIT

- 18.1. ALL WIRE AND CABLE TO BE INSTALLED IN CONDUIT EXCEPT WHERE IS NOTED OTHERWISE ON THE DRAWINGS. BX WIRING MAY BE UTILIZED FOR DROPS FROM JUNCTION BOXES TO OUTLETS AND LIGHTS NOT TO EXCEED 30 FEET IN LENGTH.
- 18.2. CONDUIT TO BE ELECTRIC METALLIC TUBING, UTILIZE RIGID GALVANIZED STEEL CONDUIT FOR ALL EXPOSED RUNS OUTDOOR ABOVE GRADE AND WHERE IN JUDGMENT BY THE ELECTRICAL INSPECTION AUTHORITY IS SUBJECT TO MECHANICAL DAMAGE.
- 18.3. PROVIDE HEAVY WALL RIGID PVC CONDUIT FOR BURIED AND FOR BELOW GRADE INSTALLATIONS AND IN CONCRETE.
- 18.4. SURFACE MOUNTED CONDUITS TO BE INSTALLED PARALLEL OR PERPENDICULAR TO STRUCTURAL LINES AND WHERE BENDS OCCUR FOR PARALLEL RUNS, THEY SHALL BE CONCENTRIC.
- 18.5. CONDUITS TO BE INSTALLED FREE FROM DENTS AND HAVE ENDS PLUGGED TO PREVENT ENTRANCE OF DUST OR MOISTURE.
- 18.6. ALL CONDUITS, EXCEPT WHERE OTHERWISE TO BE SIZED IN ACCORDANCE WITH CANADIAN ELECTRICAL CODE.
- 18.7. FLEXIBLE CONDUIT CONNECTIONS TO MOTORS, CONTROLS, AND THE LIKE TO BE FLEXIBLE PLASTIC JACKETED, SEAL TIGHT OR APPROVED EQUAL. FLEXIBLE CONDUIT CONNECTIONS ARE REQUIRED TO ALL MOTORS FROM STUB-UP OR JUNCTION BOXES.
- 18.8. APPROPRIATE AND COORDINATED METAL TYPE FITTINGS TO BE USED WITH CONDUITS.
- 18.9. SUPPLY & INSTALL FLEXIBLE CONDUIT CONNECTIONS FOR PRIMARY AND SECONDARY FEEDS TO DRY TYPE TRANSFORMERS TO REDUCE NOISE TRANSMISSION.

19. EXPANSION JOINTS

- 19.1. WHERE CONDUITS ARE INSTALLED IN CONCRETE SLABS AND CROSS STRUCTURAL EXPANSION JOINTS,

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D RE-ISSUED FOR CONSTRUCTION	AK	AK	21	02 26
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A ISSUED FOR REVIEW	AK	AK	21	01 21
ISSUED	BY	APPR.	DATE	

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SHEET TITLE: INSTALLATION SPECIFICATIONS-PART 1
PROJECT NO: 201231
SCALE: NTS
DESIGNED BY: AK
DRAWN BY: AK
REVIEWED BY: AK

SHEET NO:

E08.1