

APPENDIX C

Div. 26
TRANSCONA AQUATIC PARK - ELECTRICAL DESIGN BUILD RFP

Our File: 34-063EC

Date: April 23, 2014

Electrical Performance Specification

Note to Contractor: The following performance specification provides Contractors with the minimum required performance and expectations on systems, materials and equipment that are required for the completion of the Work. It does not generally include specific systems, materials or equipment as it is the responsibility of the Contractor to provide a proposal that meets the requirements of this Request for Proposal.

Include in electrical section, provision of labour, new materials, tools, transportation, services and facilities for a complete electrical installation. The installation shall be left complete in all respects and ready for operation to the complete satisfaction of the assigned Contract Administrator and the contractor's responsible professional engineer.

The electrical Work is to be completed without unreasonable interruption to the existing facility or its functions. Prepare a project schedule and coordinate Work with facility staff.

Do complete installation in accordance with the Winnipeg Electrical Bylaw-latest edition. Comply with all City of Winnipeg and CSA Electrical bulletins in force at time of building permit submission.

Minimum wire size shall be #12 AWG. All wiring to be copper. All materials shall be new, CSA certified. All Work shall be completed in a good workmanlike manner using quality materials.

The electrical scope of Work includes, but is not necessarily limited to the following provisions:

- Provision of demolition of existing electrical associated with existing outdoor pool, wading pool and associated mechanical room (vault) which are to be demolished.
- Provision of relocation of any underground electrical services impacted by new pool or spray pad expansion.
- Provision of power distribution from 600V-3ph panel (panel will be provided by others) located in new building expansion basement (see CP-1 conceptual master plan for approximate location of expansion). Include circuit breakers, feeders, sub-panels, transformers, and branch circuitry as required. All new circuit breakers in existing panels are to match existing. Ensure adequate cooling is provided for any indoor transformers. Circuit protection and wiring shall meet requirements of CEC section 68.

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- Provision of grounding and bonding system extension for existing spray pad expansion including all metal objects and rebar.
- Provision of power supply to all new and relocated mechanical and pool equipment.
- Provision of new security lighting around new pool, waterslides, spray features and existing spray pad. Lighting is to be LED, full cut-off, photocell controlled. Design for 5 lux maintained average throughout. Pole structures to be no higher than 30'.
- Provision of a new separate circuit 20A t-slot weather-proof receptacle at proposed concrete pad for food truck stand.
- Provision of design drawings and specifications stamped by a professional electrical engineer licensed to practice in the province of Manitoba.

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