

Part 1 General

1.1 WORK COVERED BY CONTRACT DOCUMENTS

- .1 The Scope of work under this contract comprises of electrical upgrades to the Coutts Border Crossing Facility. The scope of work includes the following:
 - .1 Replacement of the existing Automatic Transfer Switch with a unit incorporating isolation bypass switch and closed transition transfer functions. The new ATS will be placed in a new location and will require new wiring.
 - .2 Addition of Surge Protection Devices for emergency branch and distribution panelboards.
 - .3 Addition of a Power Quality Meter for the Emergency Distribution.
 - .4 Load Balancing of the electrical branch and distribution panelboards.
 - .5 Scope includes all non-electrical work to complete installation, including but not limited to installation of housekeeping pads/structure, fire rated compartments, fire stopping, drywall cutting, sealing and painting, etc.
 - .6 Testing and Commissioning of electrical equipment.
- .2 The Coutts Border Crossing facility houses electrical distribution equipment supplying power to both the Canadian and the United States sides of the building. The main service and major distribution equipment are located in the mechanical room on the second floor of the Main Port Building that is on the Canadian side of the facility. The utility power is provided by a Montana based Utility Company. The majority of upgrades are on the Canadian side of the facility; however select panels on the United States side of the Main Port Building and satellite buildings will be retrofitted with surge protection devices.

1.2 SECURITY AND WORK PERMIT REQUIREMENTS

- .1 Work commencing in Canada
 - .1 The contractor will require RCMP security clearance for its personnel in order to perform unescorted work in the facility. Alternatively the contractor may hire a security company with the required clearances to escort its personnel. All clearance requirements will need to be verified with the PWGSC Department Representative and the Canadian Border Services Agency as part of the tender process. All timelines provided by the contractor for commencement and completion of the contract are to include approximate time required for security clearance.
- .2 Work commencing in the United States
 - .1 The contractor will either need to sub-contract the part of work performed on the US side of the border to a United States based sub-contractor or

have all the security requirements, visa requirements and cross border operation requirements needed to perform work in the United States. All time lines provided by the contractor for commencement and completion of the contract are to include approximate time required for security clearance and any other visa/work permit requirements.

1.3 PRIME CONTRACTOR

- .1 The electrical contractor may act as Prime Contractor on this project. It is the responsibility of the Prime Contractor to coordinate all facility requirements with the CBSA/PWSGC Department Representative and other disciplines as required, including mechanical contractors, carpenters, etc. Note that duration and outage schedules are imperative the operation of the facility and will need to be coordinated with the facility representatives to minimize operational impact.

1.4 SEQUENCE OF INSTALLATION

- .1 To meet project deadlines, the Prime Contractor shall prepare a schedule and sequence of installation procedure that will allow work on site to proceed while delivery of equipment is being processed by suppliers. Below is a suggested sequence of installation in order to expedite completion of the project. It is the responsibility of the contractor to prepare the final schedule and sequence of installation based on equipment delivery lead times.
 - .1 Complete Post-Tender site visit
 - .2 Order all required equipment.
 - .3 Perform Load Balancing of Emergency Distribution Loads. Refer to Section 26 0820 for more information
 - .4 Install Housekeeping Pad/Structure for the new ATS
 - .5 Install Conduits and Cables where a shutdown is not required
 - .6 Coordinate with the facility maintenance manager and establish a shutdown schedule for individual branch circuit panels. One at a time, install surge protection devices onto the emergency branch circuit panels.
 - .7 Coordinate with the facility maintenance manager and establish a shutdown schedule for the entire emergency distribution in order to install the Automatic Transfer Switch and Power Quality Meter, and remaining Surge Protection Devices. Refer to Section 26 36 23 for a suggested installation sequence for the Automatic Transfer Switch.
 - .8 Complete Testing and Commissioning

1.5 CONTRACT METHOD

- .1 Construct Work under single, stipulated price contract
- .2 Relations and responsibilities between Contractor and subcontractors assigned by Department Representative are as defined in Conditions of Contract. Assigned Subcontractors must, in addition:

- .1 Furnish to Contractor, bonds covering faithful performance of subcontracted work and payment of obligations there under when Contractor is required to furnish such bonds to Department Representative.
- .2 Purchase and maintain liability insurance to protect Contractor from claims for not less than limits of liability which Contractor is required to provide to Department Representative.

1.6 WORK BY OTHERS

- .1 Co-operate with other Contractors in carrying out their respective works and carry out instructions from Department Representative.
- .2 Co-ordinate work with that of other Contractors. If any part of work under this Contract depends for its proper execution or result upon work of another Contractor, report promptly to Department Representative, in writing, any defects which may interfere with proper execution of Work.

1.7 WORK SEQUENCE

- .1 Construct Work in stages to accommodate Departmental Representative's continued use of premises during construction.
- .2 Co-ordinate Progress Schedule and co-ordinate with Department Representative Occupancy during construction.
- .3 Construct Work in stages to provide for continuous public usage. Do not close off public usage of facilities until use of one stage of Work will provide alternate usage.
- .4 Maintain fire access/control.

1.8 CONTRACTOR USE OF PREMISES

- .1 Limit use of premises for Work, for storage, and for access, to allow:
- .2 Tenant Representative occupancy.
- .3 Co-ordinate use of premises under direction of Departmental Representative.
- .4 Remove or alter existing work to prevent injury or damage to portions of existing work which remain.
- .5 Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as directed by Departmental Representative.
- .6 At completion of operations condition of existing work: equal to or better than that which existed before new work started.

1.9 TENANT OCCUPANCY

- .1 Facility Representative(s) will occupy premises during entire construction period for execution of normal operations.
- .2 Co-operate with Facility Representative(s) in scheduling operations to minimize conflict and to facilitate Departmental Representative usage.

1.10 ALTERATIONS, ADDITIONS OR REPAIRS TO EXISTING BUILDING

- .1 Execute work with least possible interference or disturbance to building operations occupants, and normal use of premises. Arrange with Tenant Representative to facilitate execution of work.

1.11 EXISTING SERVICES

- .1 Where work involves breaking into or connecting to existing services, give Departmental Representative 48 hours notice for necessary interruption of mechanical or electrical service throughout course of work. Minimize duration of interruptions. Carry out work at times as directed by governing authorities with minimum disturbance to tenant operations.
- .2 Submit schedule to and obtain approval from Departmental Representative for any shut- down or closure of active service or facility including power and communications services. Adhere to approved schedule and provide notice to affected parties.

1.12 DOCUMENTS REQUIRED

- .1 Maintain at job site, one copy each document as follows:
 - .1 Contract Drawings.
 - .2 Specifications.
 - .3 Addenda.
 - .4 Reviewed Shop Drawings.
 - .5 List of Outstanding Shop Drawings.
 - .6 Change Orders.
 - .7 Other Modifications to Contract.
 - .8 Field Test Reports.
 - .9 Copy of Approved Work Schedule.
 - .10 Health and Safety Plan and Other Safety Related Documents.
 - .11 Other documents as specified.

Part 2 Products

2.1 NOT USED

.1 Not
used.

Part 3 Execution

3.1 NOT USED

.1 Not used.

**END OF
SECTION**