
Division 01 / General Requirements

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

- .1 Section 26 05 00.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

- .1 Work of this Contract comprises replacement of lamp posts and others related works into #3 lock basins, along Lachine Canal, LHNC. The 30 lamp posts to be replaced are lamp posts #C17 to C24, C26 to C31, E2 to E15 and D14 inclusively. The locations are shown on site plans enclosed in Appendix 2.
- .2 The contract also includes the supply of 12 complete lamp posts but with operating voltage to 347 volts to deliver to the client Service Centre.

1.3 SCOPE OF WORK

- .1 Work includes, without limitation:
 - .1 Supplying and installation of lamp posts.
 - .2 Supplying and installation of transition plates.
 - .3 Supplying and installation of electrical connections,
 - .4 Removal, dismantling, holding, transportation, and unloading of lamp posts at the Service Centre. **The lamp posts to provide the Ministry will later be reused. It is important to take all necessary measures during the removal, handling and transport to protect lamp posts and hand them to the customer Ministry in the best possible condition;**
 - .5 Lengthening of electrical cables.
 - .6 Replacement of internal cables of lamp posts, fuses, and fuse-holders.
 - .7 Replacement of anchors.
 - .8 Security measures including cones, fences, and working men panels.
 - .9 Strapping, hardware, and accessories.
 - .10 Field quality control.
 - .11 Shop drawings for all material and equipment.
 - .12 Excavation and backfilling.

- .2 Work also includes relocation of the existing banner stands, banners, and signages installed on existing lamp posts, relocation of existing lamp posts, and supply and installation of auto-adhesive identification plates. The contractor shall provide for approval shop drawings and samples of the type of auto-adhesive identification plates.

1.4 WORK BY OTHERS

- .1 Co-operate with other Contractors in carrying out their respective works and carry out instructions from Departmental 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, in writing, any defects which may interfere with proper execution of Work.

1.5 WORK SEQUENCE

- .1 Construct Work in stages to accommodate Owner's continued intermittent use of premises during construction.
- .2 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.

1.6 CONTRACTOR USE OF PREMISES

- .1 Restricted use of site until Substantial Performance.
- .2 Limit use of premises for Work to allow:
 - .1 Owner occupancy.
 - .2 Public usage.
- .3 Obtain and pay for use of additional storage or work areas needed for operations under this Contract.
- .4 At completion of operations condition of existing work: Equal to or better than that which existed before new work started.

1.7 OWNER OCCUPANCY

- .1 Owner will occupy premises during entire construction period for execution of normal operations.
- .2 Establish Work schedule with the Departmental Representative in order to reduce conflicts and to facilitate utilization of the site by the Owner.

1.8 EXISTING SERVICES

- .1 Notify Departmental Representative and utility companies of intended interruption of services and obtain required permission.

1.9 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.

1.10 PROJECT SCHEDULE

- .1 Develop detailed Project Schedule derived from projected activities.
- .2 Ensure detailed Project Schedule includes all milestone and activity corresponding to and necessary to complete Work in the delay.
- .3 Departmental Representative will review and return revised schedules within five (5) working days.
- .4 Revise impractical schedule and resubmit within five (5) working days.
- .5 Accepted revised schedule will become Master Plan and be used as baseline for updates.
- .6 Update Project Schedule on weekly basis reflecting activity changes and completions, as well as activities in progress.

- .7 Include as part of Project Schedule, narrative report identifying Work status to date, comparing current progress to baseline, presenting current forecasts, defining problem areas, anticipated delays and impact with possible mitigation.

1.11 PROJECT MEETINGS

- .1 Discuss Project Schedule at regular site meetings, identify activities that are behind schedule and provide measures to regain slippage. Activities considered behind schedule are those with projected start or completion dates later than current approved dates shown on baseline schedule.
- .2 Weather related delays with their remedial measures will be discussed and negotiated.

PART 2 - PRODUCTS

2.1 NOT USED

- .1 Not used.

PART 3 - EXECUTION

3.1 NOT USED

- .1 Not used.

END OF SECTION

PART 1 - GENERAL**1.1 RELATED SECTIONS**

- .1 Division 26 - Electrical.
- .2 Division 31 - Earthwork.

1.2 PAYMENT METHODS

- .1 Lamp Posts.
 - .1 Lamp posts are paid by unit. Price includes supply and installation of materials, labor and equipment, post, lighting fixture, lamp, access door, wiring, fuse holders, fuses, connectors, identification plate, bolts, nuts, washers, hardware, accessories, decorative accessories, stainless steel strapping, recuperation and installation of existing banner stands, existing banners and existing signage panels on the new lamp posts, excavation and backfilling, identification with numbered sticky platelets provided by Parks Canada, and any necessary incidental expenses for a complete and functional installation.
- .2 Additional Lamp Posts.
 - .1 Additional lamp posts are paid by unit. Price includes supply, support, loading, transportation and unloading posts, lighting fixtures, hardware, accessories, decorative accessories at Parks Canada workshop at Lachine Canal situated at 1156 Mill Street, in Montreal (Quebec) (by appointment 48 hours before with Mr. Richard St-Jean at 514-283-8303), and any necessary incidental expenses.
- .3 Anchor Bolts to Replace.
 - .1 Anchor bolts to replace are paid by unit. Price includes supply and installation of chemical anchor bolt, equipment, implementation, excavation and backfilling, machinery, concrete base drilling, existing concrete and anchor removal, disposal of materials, and any necessary incidental expenses for a complete and functional installation.
- .4 Construction Signage.
 - .1 Construction signage is globally paid. Price includes supply, installation, moving and removing of traffic signage (working men panels, cones, fences, etc.), supply of labor, equipment, and any necessary incidental expenses to have a safe construction site.

.5 Demolition.

- .1 Demolition is globally paid. Price includes supply of labor, equipment, and excavation and backfilling, machinery, removing lamp post, removal and storage inside the banners stands, banners and signage panels, taking over, loading, transportation and unloading of posts and lighting fixtures at Parks Canada workshop at Lachine Canal situated at 1156 Mill Street, in Montreal (Quebec) (by appointment 48 hours before with Mr. Richard St-Jean at 514-283-8303), disposal of materials, and any necessary incidental expenses.

.6 Transition Plate.

- .1 Transition plates are paid by unit. Price includes supply and installation of painted galvanized steel transition plates same colour as lamp posts, and accessories, as well as shop drawings duly signed and sealed by an engineer, member of the "Ordre des ingénieurs du Québec" (OIQ), the manpower and any necessary incidental expenses for a complete installation.

.7 Lengthening of Conductors.

- .1 Lengthening of conductors is paid by unit of lamp post. Unit price by lamp post includes supplying and installation of conductors, compression connectors, heat shrinkable tubing, sealant in the conduits, hardware, and accessories, and any incidental expenses for a complete and functional installation.

PART 2 - PRODUCTS

2.1 NOT USED

- .1 Not Used.

PART 3 - EXECUTION

3.1 NOT USED

- .1 Not Used.

END OF SECTION

PART 1 - GENERAL

1.1 REFERENCES

- .1 Canada Labour Code, Part 2, Canada Occupational Safety and Health Regulations.
- .2 Province of Quebec.
 - .1 An Act Respecting Occupational Health and Safety, R.S.Q., c.S-2.1 (current edition) - Updated 2005.

1.2 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit site-specific Health and Safety Plan: Within seven (7) days after date of Notice to Proceed and prior to commencement of Work. Health and Safety Plan must include:
 - .1 Results of site specific safety hazard assessment.
 - .2 Results of safety and health risk or hazard analysis for site tasks and operation found in work plan.
- .2 Submit three (3) copies of Contractor's authorized representative's work site health and safety inspection reports to Departmental Representative.
- .3 Departmental Representative will review Contractor's site-specific Health and Safety Plan and provide comments to Contractor within fourteen (14) days after receipt of plan. Revise plan as appropriate and resubmit plan to Departmental Representative within seven (7) days after receipt of comments from Departmental Representative.
- .4 Departmental Representative's review of Contractor's final Health and Safety plan should not be construed as approval and does not reduce the Contractor's overall responsibility for construction Health and Safety.
- .5 On-site Contingency and Emergency Response Plan: Address standard operating procedures to be implemented during emergency situations.

1.3 FILING OF NOTICE

- .1 File Notice of Project with Provincial authorities prior to beginning of Work.
- .2 Contractor shall be responsible and assume the Principal Contractor role for each work zone location and not the entire complex. Contractor shall provide a written acknowledgement of this responsibility with 3 weeks of contract award. Contractor to submit written acknowledgement to CSST along with Ouverture de Chantier Notice.
- .3 Work zone locations include:
 - .1 Peel and #3 lock basins.

- .4 Contractor shall agree to install proper site separation and identification in order to maintain time and space at all times throughout life of project.

1.4 SAFETY ASSESSMENT

- .1 Perform site specific safety hazard assessment related to project.

1.5 MEETINGS

- .1 Schedule and administer Health and Safety meeting with Departmental Representative prior to commencement of Work.

1.6 GENERAL REQUIREMENTS

- .1 Develop written site-specific Health and Safety Plan based on hazard assessment prior to beginning site Work and continue to implement, maintain, and enforce plan until final demobilization from site. Health and Safety Plan must address project specifications.
- .2 Departmental Representative may respond in writing, where deficiencies or concerns are noted and may request re-submission with correction of deficiencies or concerns.

1.7 RESPONSIBILITY

- .1 Be responsible for health and safety of persons on site, safety of property on site and for protection of persons adjacent to site and environment to extent that they may be affected by conduct of Work.
- .2 Contractor shall be the Principal Contractor as described in the Quebec Act Respecting Health and Safety code for the Construction for only their scope and areas of work as defined and described this project specification.
- .3 Comply with and enforce compliance by employees with safety requirements of Contract Documents, applicable federal, provincial, territorial and local statutes, regulations, and ordinances, and with site-specific Health and Safety Plan.

1.8 COMPLIANCE REQUIREMENTS

- .1 Comply with R.S.Q., c. S-2.1, an Act respecting Health and Safety, and c. S-2.1, r.4 Safety Code for the Construction Industry.
- .2 Comply with Canada Labour Code, Canada Occupational Safety and Health Regulations.

1.9 UNFORSEEN HAZARDS

- .1 When unforeseen or peculiar safety-related factor, hazard, or condition occur during performance of Work, follow procedures in place for Employee's Right to Refuse Work in accordance with Acts and Regulations of Province having jurisdiction and advise Departmental Representative verbally and in writing.

- .2 When unforeseen or peculiar safety-related factor, hazard, or condition occur during performance of Work, advise Health and Safety co-ordinator and follow procedures in accordance with Acts and Regulations of Province having jurisdiction and advise Departmental Representative verbally and in writing.

1.10 HEALTH AND SAFETY CO-ORDINATOR

- .1 Employ and assign to Work, competent and authorized representative as Health and Safety Co-ordinator. Health and Safety Co-ordinator must:
 - .1 Have site-related working experience specific to activities associated with Work.
 - .2 Have working knowledge of occupational safety and health regulations.
 - .3 Be responsible for completing Contractor's Health and Safety Training Sessions and ensuring that personnel not successfully completing required training are not permitted to enter site to perform Work.
 - .4 Be responsible for implementing, enforcing daily and monitoring site-specific Contractor's Health and Safety Plan.
 - .5 Be on site during execution of Work.

1.11 POSTING OF DOCUMENTS

- .1 Ensure applicable items, articles, notices and orders are posted in conspicuous location on site in accordance with Acts and Regulations of Province having jurisdiction, and in consultation with Departmental Representative.

1.12 CORRECTION OF NON-COMPLIANCE

- .1 Immediately address health and safety non-compliance issues identified by authority having jurisdiction or by Departmental Representative.
- .2 Provide Departmental Representative with written report of action taken to correct non-compliance of health and safety issues identified.
- .3 Departmental Representative may stop Work if non-compliance of health and safety regulations is not corrected.

1.13 WORK STOPPAGE

- .1 Give precedence to safety and health of public and site personnel and protection of environment over cost and schedule considerations for Work.

PART 2 - PRODUCTS

2.1 NOT USED

.1 Not used.

PART 3 - EXECUTION

3.1 NOT USED

.1 Not used.

END OF SECTION

PART 1 - GENERAL

1.1 REFERENCES

- .1 Canadian General Standards Board (CGSB).
 - .1 CAN/CGSB 1.189-2000, Exterior Alkyd Primer for Wood.
 - .2 CGSB 1.59-1997, Alkyd Exterior Gloss Enamel.
- .2 Canadian Standards Association (CSA International).
 - .1 CSA-A23.1/A23.2-09, Concrete Materials and Methods of Concrete Construction/Methods of Test and Standard Practices for Concrete.
 - .2 CAN/CSA-Z321-96(R2006), Signs and Symbols for the Occupational Environment.

1.2 INSTALLATION AND REMOVAL

- .1 Provide construction facilities in order to execute Work expeditiously.
- .2 Remove from site all such work after use.

1.3 PROTECTION AND MAINTENANCE OF TRAFFIC

- .1 Maintain and protect traffic on bicycle path during construction period, except as otherwise specifically directed by Departmental Representative. In any case, the bicycle path shall not be obstructed.
- .2 Provide measures for protection of traffic, including erection of barricades, fences, erection and maintenance of adequate warning, danger, direction signs, and traffic cones.
- .3 Protect travelling public from damage to person and property.
- .4 Contractor's traffic on roads selected for hauling material to and from site to interfere as little as possible with traffic.
- .5 Verify adequacy of existing roads and allowable load limit on these roads. Contractor is responsible for repair of damage to roads caused, landscaping, and all other surfaces by construction operations.
- .6 Provide necessary signs, barricades, distinctive markings, and traffic cones for safe movement of traffic.
- .7 Dust Control: Adequate to ensure safe operation at all times.

1.4 CLEAN-UP

- .1 Remove daily construction debris, waste materials, packaging material from work site.
- .2 Clean dirt or mud tracked onto paved or surfaced roadways.
- .3 Store materials resulting from demolition activities that are salvageable.
- .4 Stack stored new or salvaged material not in construction facilities.

PART 2 - PRODUCTS**2.1 NOT USED**

- .1 Not Used.

PART 3 - EXECUTION**3.1 NOT USED**

- .1 Not Used.

END OF SECTION

PART 1 - GENERAL**1.1 ADMINISTRATIVE REQUIREMENTS**

- .1 Acceptance of Work Procedures:
 - .1 Delay:
 - .1 A maximum delay of eighty five (85) working days after Contract granting is provided to proceed to Work Substantial Performance.
 - .2 Inspection:
 - .1 Departmental Representative's Inspection:
 - .1 Departmental Representative and Contractor to inspect Work and identify defects and deficiencies.
 - .2 Contractor to correct Work as directed.
 - .2 Completion Tasks: Submit written certificates both in English and French that tasks have been performed as follows:
 - .1 Work: Completed and inspected for compliance with Contract Documents.
 - .2 Defects: Corrected and deficiencies completed.
 - .3 Equipment and systems: Tested and fully operational.
 - .4 Work: Complete and ready for final inspection.
 - .3 Final Inspection:
 - .1 When completion tasks are done, request final inspection of Work by Departmental Representative and Contractor.
 - .2 When Work incomplete according to Departmental Representative, complete outstanding items and request re-inspection.
 - .4 Declaration of Substantial Performance: when Departmental Representative considers deficiencies and defects corrected and requirements of Contract substantially performed, make application for Certificate of Substantial Performance.
 - .5 Commencement of Lien and Warranty Periods: Date of Owner's acceptance of submitted declaration of Substantial Performance to be

date for commencement for warranty period and commencement of lien period unless required otherwise by lien statute of Place of Work.

.6 Final Payment:

.1 When Departmental Representative considers final deficiencies and defects corrected and requirements of Contract met, make application for final payment.

.7 Payment of Holdback: After issuance of Certificate of Substantial Performance of Work, submit application for payment of holdback amount in accordance with contractual agreement.

1.2 FINAL CLEANING

.1 Clean Work areas and remove surplus materials, excess materials, rubbish, tools, and equipment.

PART 2 - PRODUCTS

2.1 NOT USED

.1 Not Used.

PART 3 - EXECUTION

3.1 NOT USED

.1 Not Used.

END OF SECTION