

PART I - GENERAL

- 1.1 Related Work .1 Rough Grading : Section 02211
- 1.2 Scope of Work .1 This section specifies the work involved in the supply and installation of corrugated steel pipe culverts and associated apron end sections and Polyvinyl Chloride pipe culverts. Culvert pipe shall be of the size and type specified in the contract and shall conform to the following applicable OPSS Material Specifications: OPSS 1801: Corrugated Steel Pipe
OPSS 1841: Polyvinyl Chloride (PVC) Pipe
- .2 Coordinate work in this section with work in all other sections.
- 1.3 Product Delivery, Storage, Handling .1 Pipe culverts are to be delivered to the site in one continuous length as detailed on the approved plans.
- .2 Pipes are not to be stored on site without the approval of the Community Services Department.
- .3 Pipes that are delivered to the site showing any damage to corrugations or showing signs of rust will not be accepted.
- 1.4 Guarantee .1 The contractor shall guarantee all material and workmanship for a period of two years from the date of Preliminary Acceptance by the City.

PART II - PRODUCTS

- 2.1 Corrugated Steel Pipe .1 Pipes are to be manufactured from high quality, hot dipped zinc coated culvert sheet. Culverts are to be #14 gauge and are to be of helical lock-seam CSP with 68 mm x 13 mm corrugation profile.
- .2 Each culvert shall be provided and installed with a galvanized apron end section at both ends. Galvanized end sections shall be of approved manufacture to match size and style of culverts as indicated on the drawings.
- 2.2 Polyvinyl Chloride (PVC) Pipe .1 Pipe material shall conform to the requirements of CSA B182.2 and CSA B182.4. Fabrication of PVC pipe products shall conform to the requirements of CSA standard B182.2 and B182.4.

-
- .2 Each culvert shall be installed with a 45 degree cut at both ends allowing the pipe to blend into finished grades. Cut material will be filed smooth to eliminate all sharp edges.
- 2.3 Screenings .1 Bedding and backfill are to be limestone screenings and shall be in accordance with Specification Section 02513.
- 2.4 Requirements .1 All products are to meet the requirements in the latest editions of the OPSS, OPSD and the approved working drawings.

PART III - EXECUTION

- 3.1 Inspection .1 The Community Services Department is to inspect the site prior to placement of pipe.
- 3.2 Installation .1 Install limestone screening bedding to proper grade and compact to 95% S.P.D. prior to placing the culverts.
- .2 After installation of limestone screening bedding, install pipe culverts to proper grade as shown on drawings. Limestone screening backfill shall be placed to a minimum depth of 230 mm above the pipe culvert. Compact screenings to 95% S.P.D.
- .3 Galvanized apron end sections, for corrugated steel pipe culverts, shall be installed in accordance with manufacturer's instructions. After tightening of band coupler, excess threaded bolt shall be cut off flush with bolt head. Cut ends of culvert are to have no sharp edges.
- 3.3 Requirements .1 All work shall be carried out as per OPSS and OPSD, latest edition(s).

END OF SECTION 02723