

This specification outlines the requirements for the supply and installation of pedestrian hand railing constructed of steel pipe complete with steel pipe posts. Locations shall be as shown on the drawings or as directed by the Owner.

PART 1 REFERENCES

This specification refers to the following standards, specifications, or publications. This specification shall be read in conjunction with applicable standard drawings for handrail installation as outlined in the Standard Drawings Table of Contents:

ASTM International

A53/53M Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless

PART 2 GENERAL

2.1 NOT APPLICABLE.

PART 3 PRODUCTS

3.1 MATERIALS

- .1 Where a pedestrian path is adjacent to the handrail location, the MI 04170 drawing shall be used unless otherwise directed by the Owner. Posts and rails shall consist of 50 mm inside diameter galvanized schedule 40 steel pipe in accordance with ASTM A53/53M.
- .2 Where there is no pedestrian path adjacent to the handrail location, the Highway Design and Construction Form 1216-1 detail shall be used unless otherwise directed by the Owner.
- .3 The railing shall be pre-fabricated before erection. Joints between rails and posts shall be made by cutting and fitting to ensure complete contact.
- .4 Joints shall be welded.
- .5 Welds and surrounding heat-damaged areas shall be galvanized after fabrication or otherwise protected from corrosion with a zinc base coating.
- .6 Railing shall be delivered to the site complete and ready for erection.

PART 4 EXECUTION

4.1 INSTALLATION

- .1 Holes for posts shall be drilled or preformed in concrete walls, walks, steps, sidewalks or headwalls as required.
- .2 Posts shall be embedded in cement grouts in accordance with the bedding detail in the drawings.
- .3 The form and dimensions of the handrail shall conform to those given in the drawings. The length shall be as required to suit the particular site conditions. The contractor shall vary the spacing of the posts such that the spacing is uniform throughout the length of the rail.
- .4 After installation, posts and rails shall be prepared and painted as follows:
 - .1 Clean galvanize steel with a metal conditioner as specified.
 - .2 Prime steel with one coat of zinc oxide primer as specified.
 - .3 Paint steel with two coats of exterior enamel in colour specified by the Owner.

PART 5 PAYMENT

5.1 MEASUREMENT FOR PAYMENT

- .1 The unit of measurement shall be in linear metres as measured along the top rail between the centres of the posts for each detail and type of footing or connection detail indicated and shall include installation and painting.

5.2 BASIS OF PAYMENT

- .1 All costs associated with the work outlined in this specification shall be deemed to be included in the appropriate unit and lump sum prices quoted as outlined in the Measurement for Payment subsection of this section and as included in the MERX Schedule of Quantities and Prices.