## Part 1 General

### 1.1 REFERENCES

.1 American Society for Testing and Materials International, (ASTM).
. 1 ASTM A53/A53M-02, Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
. 2 Canadian General Standards Board (CGSB).
. 1 CAN/CGSB-1.181-99, Ready-Mixed Organic Zinc-Rich Coating.
. 3 Canadian Standards Association (CSA International).
.1 CAN/CSA-A23.1-00/A23.2-F00, Concrete Materials and Methods of Concrete Construction/Methods of Test for Concrete.

### 1.2 SUBMITTALS

. 1 Product Data:Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 013300 - Submittal Procedures.
. 2 Manufacturer's Instructions: Submit manufacturer's installation instructions.

## Part 2 Products

### 2.1 MATERIALS

. $1 \quad$ Wire fence:
. 1 Galvanized steel.
. 2 Square mesh 2 mm thick, galvanized metal, 50 mm spacing..
. 2 Gates:
. 1 Frame: to ASTM A53, galvanized steel pipe, standard weight, 25 mm outside diameter.
. 2 Size: as indicated.
. 3 Joints: electrically welded.
. 3 Steel posts:
. 1 Corner, end, gate and intermediate posts, projection arm with clips, corner and gate post braces, gate posts as indicated.
.2 Galvanizing: zinc coating, minimum $92 \mathrm{~g} / \mathrm{m}^{2}$ of surface area.
. 3 Concrete mixes and materials: to Cast-in-Place Concrete, CAN/CSA-A23.1.
. 1 Nominal coarse aggregate size: 20-5.
. 2 Compressive strength: 20 MPa minimum at 28 days.
. 4 Organic zinc-rich coating: to CAN/CGSB-1.181.

## Part 3 Execution

### 3.1 MANUFACTURER'S INSTRUCTIONS

. 1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

## $3.2 \quad$ GRADING

. 1 Level ground along fence line in order that bottom wire of fence between posts can be maintained at not more than 150 mm above ground.

### 3.3 ERECTION OF FENCE

. 1 Erect fence along lines as indicated.
. 2 Installation of posts:
.1 Space intermediate posts at 3 m .
. 2 Space corner, end and gate posts 3 m from adjacent post.
. 3 Locate and erect gate posts as indicated.
.4 Install posts true to line and plumb with 1.5 m of post projecting above ground.
. 3 Fencing with steel posts:
. 1 Install steel posts to depths as indicated.
. 2 Set following items in concrete:
. 1 End, corner and gate posts.
. 2 Intermediate posts adjacent to end, corner and gate posts.
. 3 Intermediate posts along fence line.
. 4 Ends of braces for corner, end and gate posts.
. 3 Brace corner, end and gate posts as indicated.
. 4 Clamp a studded steel projection arm to each post as indicated.
. 5 Erect steel mesh as indicated.
. 6 Stretch mesh to have uniform tension..

### 3.4 INSTALLATION OF GATES

. 1 Install gate in location as indicated.
. 2 Install gates to prevent over-stress on gate posts when gates are open. Install on level ground with ground clearance of 100 mm .
. 3 Locate gate latch and support.. Gate latch to be lockable by padlock..

### 3.5 CLEANING

. 1 Perform cleaning as soon as possible after installation.
. 2 Clean and trim areas disturbed by operations. Dispose of surplus material and replace damaged turf with sod as directed by Contract Administrator.
. 3 Touch Up: Clean damaged galvanized surfaces with wire brush removing loose and cracked coatings. Apply two coats of organic zinc-rich coating.
. 4 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

## END OF SECTION

