

**PART I - GENERAL**

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| <u>1.1 Related Work</u>                        | .1 | Cast-in-Place Concrete  | : | Section 03300 |
| <u>1.2 Scope of Work</u>                       | .1 | Supply and install all material specified herein and indicated on the Detail Drawings for the completion of the black vinyl chain link fence. |   |               |
|  | .2 | Coordinate work in this section with work in all other sections.  |   |               |
| <u>1.3 Product Delivery, Storage, Handling</u> | .1 | Material will not be stored on site. Any material not installed at the end of a working day will be returned to the contractor's yard.        |   |               |
|  | .2 | Damaged material will be rejected by the Community Services representative.   |   |               |
| <u>1.4 Guarantee</u>                           | .1 | Guarantee all work in this section for a period of two years from date of Preliminary Acceptance by the City.                                 |   |               |

**PART II - PRODUCTS**

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| <u>2.1 Materials</u> | .1 | All mesh to be new, hot dipped galvanized after fabrication and black vinyl coated # 9 gauge OD with # 11 gauge galvanized steel core. Fabric shall be installed to the full width indicated on drawings without overlap. Top and bottom selvage to have a knuckled finish. Mesh size is to be 38 mm x 38 mm.   |  |  |
|                      | .2 | Terminal posts to be galvanized 88.9 mm outside diameter, new standard butt weld Schedule 40 pipe. Minimum weight to be 11.29 kg/m. No tubing, conduit or open seam material will be permitted.   |  |  |
|                      | .3 | Terminal post tops to be hot dipped galvanized and blunt.   |  |  |
|                      | .4 | All rails to be galvanized 42.9 mm outside diameter, new standard butt weld schedule 40 pipe with plain ends. No tubing, conduit or open seam material will be permitted. Galvanized couplings of the outside sleeve type at least 175 mm in length will be used to join the top rail. The top rail is to pass through line post tops and form a continuous brace for each stretch of |  |  |

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- fence. The top rail is to be secured to each terminal post with hot dipped galvanized steel receptacle fittings. Minimum weight to be 3.39 kg/m.
- .5 Line posts to be 60.0 mm outside diameter, new standard butt weld schedule 40 pipe. Minimum weight to be 5.48 kg/m. No tubing conduit or open seam material will be permitted, no welded section of pipe will be accepted.
- .6 Line post tops to be hot dipped galvanized steel. Top to accommodate 42.2 mm outside diameter top rail in a horizontal position.
- .7 The mesh shall be 38 mm x 38 mm black vinyl coated. All fabric shall be # 9 gauge with an # 11 gauge galvanized steel core.
- .8 Gates shall be installed as noted on contract drawings. All gate frames to be galvanized 42.2 mm outside diameter, new standard butt weld schedule 40 pipe with plain ends complete with heavy duty galvanized hinges, self closing lockable latches and fittings. No tubing, conduit or open seam material will be permitted.
- .9 Where applicable the tension wire shall be # 6 gauge.
- .10 All frame work and other fence components shall be finished with black gloss enamel by powder coat application. Prior to powder coating, all surfaces to be chemically cleaned and treated with Parker Bonderite and Chlorothene solvent or approved equals. Powder coating must be a polyester 2000 series applied in a thickness of 4-5 Mils by electrostatic coat and oven cured to a smooth and even surface.
- .11 Concrete footings shall conform to the Detail Drawings and Division 3, Section 03300, Cast-in-Place Concrete.

**PART III - EXECUTION****3.1 General**

- .1 Fence locations will be staked out and reviewed by the Community Services representative prior to installation.

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**3.2 Installation**

- .1 Remove debris and correct ground undulations along fence line to obtain smooth uniform gradient between posts. Provide clearance between bottom of fence and ground surface neither less than 30 mm nor more than 50 mm.
- .2 Erect fence along lines indicated on drawings and in accordance with CAN2-138.3-M80 latest edition.
- .3 Excavate post holes to dimensions indicated on the drawings. Minimum depth of post holes to be 1,200 mm.
- .4 Install additional straining posts at sharp changes in grade and where distance between end posts is greater than 150 m.
- .5 Install corner post where change in alignment exceeds 10 degrees.
- .6 Place concrete in post holes with sono-tube footings then embed posts into concrete to depths indicated. Extend concrete 25 mm above ground level and slope to drain away from posts. Brace with temporary bracing to hold posts in plumb position and true to alignment and elevation until concrete has set.
- .7 Do not install fence fabric until concrete has cured.
- .8 Install temporary braces on both sides of corner and straining posts in similar manner.
- .9 Install top rail between posts and fasten securely to terminal posts and secure waterproof caps.
- .10 Install bottom tension wire, stretch tightly and fasten securely to end, corner, and straining posts with tension bar bands.
- .11 Lay out fence fabric. Stretch tightly to tension recommended by manufacturer and fasten to end, corner, and straining posts with tension bar secured to post with tension bar bands spaced at 300 mm intervals.
- .12 Secure fabric to top rails, line posts and bottom tension wire with tie wires at 450 mm intervals. Give the wires minimum two twists.

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| <u>3.3 Finishing</u> | .1 | Repair damaged painted surfaces. Clean damaged surfaces and apply two coats of approved paint to damaged areas.               |
| <u>3.4 Cleaning</u>  | .1 | Clean and reinstate areas disturbed by operations. Dispose of surplus excavated material and replace damaged sod as directed. |

**END OF SECTION 02831**