



NOTES:

1. ALL FABRIC SHALL BE 3.6mm (#6 GAUGE WITH #11 GAUGE STEEL CORE) KNUCKLED AT TOP AND BOTTOM
2. THE VINYL COATING SHALL BE BLACK
3. ALL POSTS AND RAILS SHALL BE GALVANIZED STEEL PIPE 'STANDARD WEIGHT'. CONFORMING TO CURRENT SPECIFICATIONS FOR BLACK AND HOT DIPPED ZINC COATED (GAL.) WELDED AND SEAMLESS PIPE FOR ORDINARY USES, ASTM. DESIGNATION A120
4. ALL REQUIRED FITTINGS AND HARDWARE SHALL BE OF SUITABLE ALUMINUM OR A STEEL DUCTILE IRON ASTM SPECIFICATION (A152)
5. MINIMUM REQUIREMENT FOR ZINC COATING:
 - WIRE=0.5 KG/M
 - POSTS AND RAILS=0.5 KG/M
 - FRAME AND BRACES=0.5 KG/M
 - CAST FITTINGS=0.6 KG/M
 - OTHER FITTINGS=0.6 KG/M
6. FABRICS SHALL BE INSTALLED ON THE MUNICIPAL SIDE OF THE FENCE POSTS

NOTE:

TO BE USED AS A GUIDELINE ONLY. NOT TO SCALE. REMOVE CITY TITLE BLACK AND REDRAW TO REPRESENT SITE SPECIFIC CONDITIONS. ALL SITE SPECIFIC CONDITIONS ARE TO BE CONFIRMED BY THE PROJECT CONSULTANT.

REV.#	DESCRIPTION	DATE	APP.BY
CITY OF SARNIA			
1.5m CHAIN LINK FENCE DETAIL			
APPROVED BY:		FIELD BOOK#	TOTAL STATION
DRAWN BY: DS	SCALE: N.T.S.	DWG. #	
CHK'D BY:	DATE: NOV 2019	3000	

BLACK VINYL CHAIN LINK FENCING

Development Engineering Dept., City of Sarnia
Subdivision Requirements

Page 1 of 3
Revised: Nov. 18, 2019

PART I - GENERAL

- | | | |
|------------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <u>1.1 Related Work</u> | .1 | Cast-in-Place Concrete : |
| <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. |
| <u>1.3 Product Delivery, storage, Handling</u> | .1 | Damaged material will be rejected by the Development Engineering 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

- | | | |
|---------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.1 Materials | .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 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. |

BLACK VINYL CHAIN LINK FENCING

Development Engineering Dept., City of Sarnia
Subdivision Requirements

Page 2 of 3
Revised: Nov. 18, 2019

- .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 Mills by electrostatic coat and oven cured to a smooth and even surface.
- .11 Concrete footings shall be to City standard and be accepted by the Development Engineering departments representative.

PART III - EXECUTION

- 3.1 General
 - .1 Fence locations will be staked out and reviewed by the Development Engineering departments representative prior to installation.
- 3.2 Installation
 - .1 Remove debris and correct ground undulations along fence line to obtain smooth gradient between posts. Provide clearance between bottom of fence and ground surface neither less than 30mm nor more than 50mm.
 - .2 Excavate post holes to dimensions indicated on drawing 3000. Minimum depth of post holes to be 1,200mm.

BLACK VINYL CHAIN LINK FENCING

Development Engineering Dept., City of Sarnia
Subdivision Requirements

Page 3 of 3
Revised: Nov. 18, 2019

- | | | |
|-------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>3.2 Installation</u> | .1 | Install additional straining posts at sharp changes in grade and where distance between end posts is greater than 150 m. |
| | .2 | Install corner post where change in alignment exceeds 10 degrees. |
| | .3 | 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. |
| | .4 | Do not install fence fabric until concrete has cured. |
| | .5 | Secure fabric to top rails, line posts and bottom tension wire with tie wires at 450 mm intervals. Give the wires minimum two twists. |
| <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. |