

PART E

SPECIFICATIONS

PART E - SPECIFICATIONS

GENERAL

E1. GENERAL

E1.1 These Specifications shall apply to the Work.

E2. GOODS

E2.1 The Contractor shall supply and deliver reflective traffic sign materials in accordance with the requirements hereinafter specified.

E3. DELIVERY

E3.1 Goods shall be delivered on an "as required" basis during the term of the Contract, f.o.b. destination, freight prepaid, to:

Traffic Services
421 Osborne Street
Winnipeg, MB

E3.1.1 Goods shall be delivered within ten (10) Business Days of the placing of an order, except where otherwise agreed at the time of ordering.

E3.2 Goods shall be delivered between 7:30 a.m. and 3:00 p.m. on Business Days.

E3.3 The Contractor shall off-load goods as directed at the delivery location.

E4. SHEETING

E4.1 Class 1 Level 2 and Class 1 Level 1 sheeting shall conform to the requirements set out in CSGB standard 62 GP 11M.

E4.2 Class 1 Type IX and Class 1 Type IX Fluorescents shall conform to the requirements set out in ASTM standard D 4956-04.

E5. SCREEN PROCESS INKS

E5.1 All the inks shall be manufactured by the sheeting manufacturer, with the following salient features:

- (a) inks shall be a "fast dry" nature, which shall cure sufficiently to permit packaging and shipping after 3 hours air-dry;
- (b) inks shall not require a protective clear coating;
- (c) inks shall be warranted to be effective for a period of time commensurate with the warranty life of the reflective sheeting (10 years); and
- (d) inks shall be of a "single part composition" with no requirement to mix catalysts or other components.

E6. PRODUCTION METHODS

E6.1 The material shall conform to the following production methods and procedure:

E6.1.1 All sheeting shall come off the rolls in a flexible state ready to screen;

- E6.2 The City of Winnipeg sign fabrication shop must be able to produce one hundred (100) faces within a three (3) hour time frame using established procedures, which includes the following
- (i) cutting the sheeting;
 - (ii) setting the screen;
 - (iii) screening the inks;
 - (iv) all material shall lie flat on $\frac{3}{4}$ " spaced drying racks; and
 - (v) clean up.

E7. PERFORMANCE HISTORY

- E7.1 The production material (sheeting, process inks, and overlay films) of the type being supplied must meet requirements of 24 months accelerated weathering, 80% retention of initial specified brightness and no appreciable cracking, blistering, crazing or dimensional change.

E8. TECHNICAL SERVICE

- E8.1 The Contractor and Manufacturer shall, at no cost to the City of Winnipeg provide the Traffic Signals department with competent technical service, product information and training at the location designated by the Contract Administrator.

E9. PRODUCT SPECIFICATIONS

- E9.1 The Contractor shall provide within three (3) Business days of a request of the Contract Administrator the product bulletins for all the material requested in this Bid Opportunity.