

- (b) Sod shall be a mixture of ninety-five percent (95%) Kentucky Bluegrass, using equal proportions of any three Class 2 cultivars, and five percent (5%) Creeping Red fescue; or
- (c) Sod shall be a blend composed of one hundred (100) percent Kentucky Bluegrass (100% Class 1 or Class 2 cultivars as specified in CW 3510 Clause 5.3.3, 3 cultivars in equal proportion);
- (d) Topsoil and fine grading shall conform to CW 3540 (see E43-Topsoil, Soil Amendments, Growing Medium, and Finish Grading).

Revise E47.2.3 to read: Cover Crop

- (a) Use Annual ryegrass as a cover crop (nurse crop) in all areas to be seeded with Turf Grass Seed Mix.

Revise: E79.2.2 to read: Manufacture all culverts to the CN Specification contained on Plan Number R7A-80_2 dated September 29, 2003 in Appendix L – CN Culvert Details.

Add: E110.4 Construction Methods

Add: E110.4.1 Execution

- (a) Shoring may be left in place, as required to facilitate construction. Cut-off shoring left in place to a minimum of 1.2 metres below finished grade. Shoring shall be removed around water services, reinforced concrete piping, and other utility connections to an extent approved by the Contract Administrator. The extent of shoring left in place shall be outlined on the shoring design submission.

Add: E113 **SIGN BARRICADES**

E113.1 Description

E113.1.1 This specification covers the supply and installation of sign barricades as identified on the Drawings. The barricades will be used to delineate directions of traffic around the detour curve near Station 1+975 and in other locations requiring highly visible, stable barricades.

E113.1.2 The Work to be done by the Contractor under this Specification shall include the furnishing of all superintendence, overhead, labour, materials, equipment, tools, supplies, and all things necessary for and incidental to the satisfactory performance and completion of all Work as hereinafter specified.

E113.2 Materials

E113.2.1 Refer to Appendix "K" – Sign Barricade

E113.2.2 The Contractor shall be responsible for the supply, safe storage and handling of all materials as set forth in this Specification. All materials shall be handled in a careful and workmanlike manner, to the satisfaction of the Contract Administrator.

E113.2.3 Approved Product: Barkman Item No. 106468, supplied by:

Barkman Concrete
Phone: 204-667-3310
Contact: Anthony Militano

Supply complete with two (2) lifting hooks.

E113.2.4 Provide two (2) vertical 32mm diameter through-holes (by drilling or cast-in), along the centerline of the curb, a minimum distance of 150mm away from cast-in sign clamps and lifting hooks.

- E113.2.5 Obtain sign clamps supplied by the City of Winnipeg Traffic Services Branch and install two (2) during casting as shown on drawing 2.438 m (8') apart, centred on the length of the sign barricade.
- E113.2.6 Steel Posts mounted in sign clamps, along with barricade signs to be supplied and installed by City of Winnipeg Traffic Services after sign barricade installation.
- E113.2.7 Supply shop drawings as per E4 prior to manufacture.
- E113.3 Construction Methods
 - E113.3.1 The Sign Barricade shall be installed in accordance to the drawings and approved by the Contract Administrator.
 - E113.3.2 The Contractor shall be responsible for loading, and unloading as well as storing of the sign barricades. The Contractor shall supply all necessary equipment for loading, hauling, unloading, and storing of the components.
 - E113.3.3 Prior to commencing installation of the sign barricade at a location, the Contractor shall verify that it can be installed in strict accordance with the Drawings. Install with approximately 750 mm between subsequent sign barricades. Should there be a conflict between a proposed location and any facility, the Contract Administrator shall be notified immediately.
 - E113.3.4 All sign barricades associated with the roadway detour shall be pinned to the road surface using two 900mm long 25mm diameter solid round steel bars, or alternatively 900 mm long 25M reinforcing bars for each sign barricade segment. The top of the bars shall be flush with the top of the sign barricade segment.
 - E113.3.5 Sign Barricade associated with the roadway detour shall be maintained and re-aligned as necessary by the Contractor. Any re-alignment shall include all necessary equipment, materials, labour and related operations required to re-align the sign barricade. Re-alignment shall be incidental to this specification and completed to the satisfaction of the Contract Administrator.
 - E113.3.6 When the detour roadway is decommissioned, Sign Barricades are to be salvaged, delivered, unloaded and stacked as directed by City personnel at:
 - City of Winnipeg Bridge Yard
 - 960 Thomas Avenue, Winnipeg, Manitoba
- E113.4 Measurement and Payment
 - E113.4.1 Supply and Installation of Sign Barricades, and all related appurtenances will be measured on a unit basis and paid for per barricade at the Contract Unit Price for "Supply and Installation of Sign Barricade".
 - E113.4.2 Salvaging of Sign Barricades, and all related appurtenances will be measured on a unit basis and paid for per barricade at the Contract Unit Price for "Salvage of Sign Barricade".

DRAWINGS

Replace: 473-2016_Drawing_C2-CT-002-R0 with 473-2016_Addendum_3-Drawing_C2-CT-002-R1

473-2016_Addendum_1-Drawing_C2-CT-003-R1 with 473-2016_Addendum_3-Drawing_C2-CT-003-R2

473-2016_Addendum_1-Drawing_C2-CT-006-R1 with 473-2016_Addendum_3-Drawing_C2-CT-006-R2

473-2016_Drawing_C2-GE-025-R0 with 473-2016_Addendum_3-Drawing_C2-GE-025-R1

473-2016_Addendum_1-Drawing_C2-GE-027-R1 with 473-2016_Addendum_3-Drawing_C2-GE-027-R2
473-2016_Addendum_1-Drawing_C2-GE-031-R1 with 473-2016_Addendum_3-Drawing_C2-GE-031-R2
473-2016_Addendum_1-Drawing_C2-GE-032-R1 with 473-2016_Addendum_3-Drawing_C2-GE-032-R2
473-2016_Addendum_1-Drawing_C2-GE-035-R1 with 473-2016_Addendum_3-Drawing_C2-GE-035-R2
473-2016_Addendum_1-Drawing_C2-GE-038-R1 with 473-2016_Addendum_3-Drawing_C2-GE-038-R2
473-2016_Addendum_1-Drawing_C2-GE-040-R1 with 473-2016_Addendum_3-Drawing_C2-GE-040-R2
473-2016_Addendum_2-Drawing_C2-GE-041-R2 with 473-2016_Addendum_3-Drawing_C2-GE-041-R3
473-2016_Addendum_2-Drawing_C2-GE-042-R2 with 473-2016_Addendum_3-Drawing_C2-GE-042-R3
473-2016_Addendum_2-Drawing_C2-GE-044-R2 with 473-2016_Addendum_3-Drawing_C2-GE-044-R3
473-2016_Addendum_1-Drawing_C2-GE-045-R1 with 473-2016_Addendum_3-Drawing_C2-GE-045-R2
473-2016_Drawing_C2-GE-047-R0 with 473-2016_Addendum_3-Drawing_C2-GE-047-R1

NMS SPECIFICATION

Section 26 05 32

Add: 1.4.2.1.3 Rab VJX series.

Add: 1.4.2.1.4 Appleton BKX series.

Replace: 1.4.2.2 to read: Wall outlets, surface exposed mounting or used for outdoor outlets: one or more gang, Crouse-Hinds FS series or FD series, Condulet, Rab FS series or FD series, Appleton FS series or FD series.

APPENDICES

Add: Appendix K Sign Barricade

Add: Appendix L CN Culvert Details