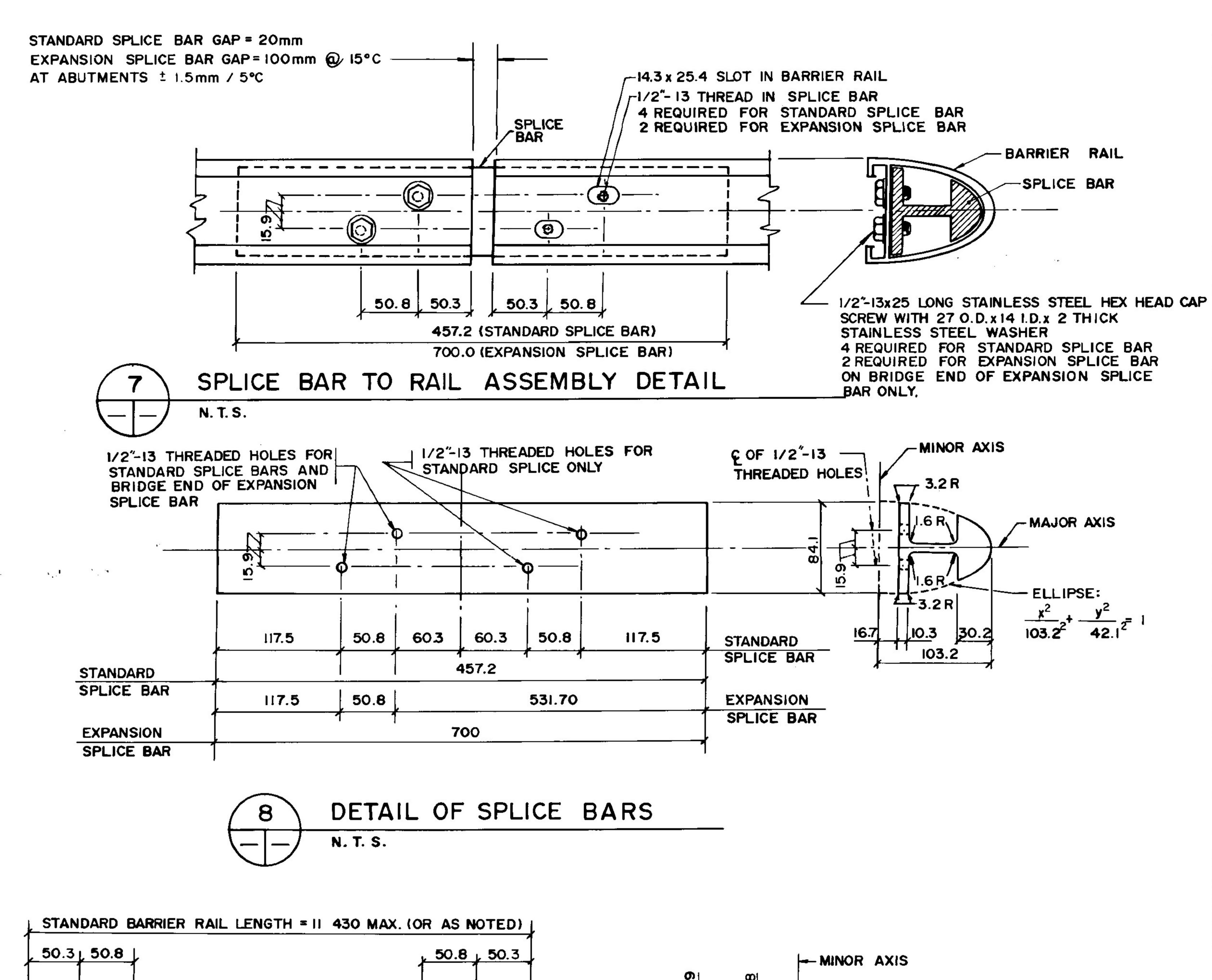


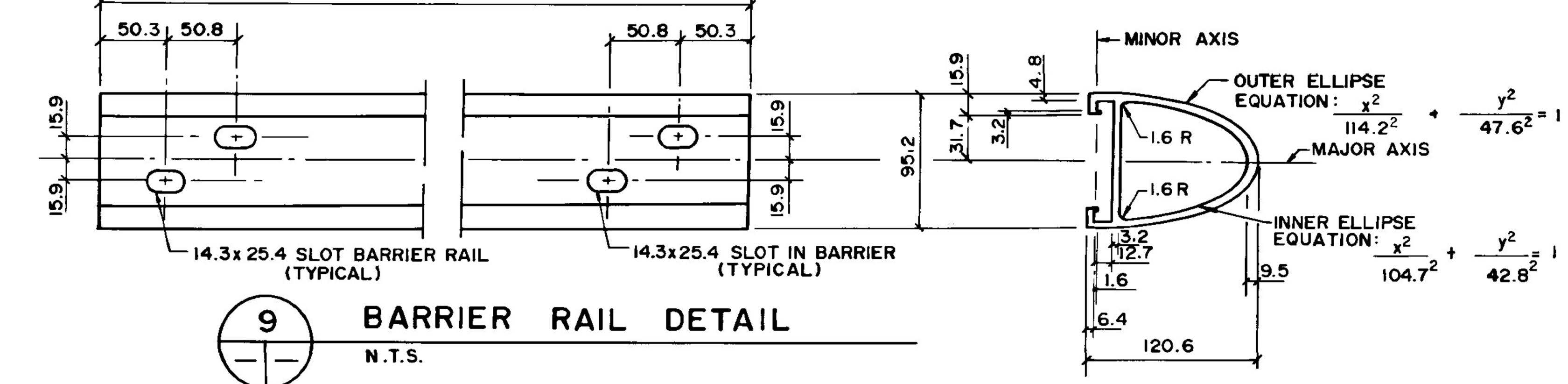
RAIL CLAMP BAR DETAIL 16.7

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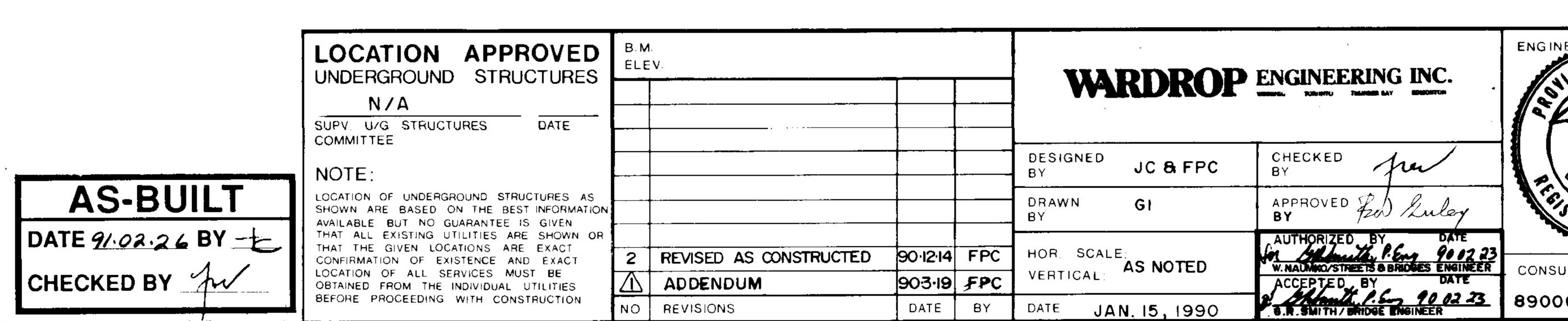
NOTES:

- The 19mm DIA. holes (4) in the base of the barrier rail posts and rail plates are designed to accommodate 16mm DIA. rail post anchor bolts as detailed. Supply with each anchor bolt: one stainless steel plain washer, one stainless steel lock washer, one stainless steel lock washer, one stainless hex nut, and one 50 mm galvanized plate washer.
- A combination of 1.5, 3.0, and/or 6.0mm thick aluminum rail post or plate shims are to be used as required to set the barrier rail to the specified height. (Minimum 3.0mm shim required at each post or plate).
- Remove all burrs and sharp edges in the shop. After the installation of the barrier has been completed, the top edges and corners of the barrier rail posts shall be rounded smooth to the satisfaction of the engineer.
- ◆ Denotes dimension at installation temperature of 150 see splice bar to rail assembly detail for dimension variation with temperature.
- Bottom surface of shim (surface in contact with concrete) is to be painted with 2 coats of alkali resistant bituminous paint, each coat being 1mm in thickness.

SPECIFICATIONS:

- Extruded aluminum shapes and plates shall conform to the requirements of A.S.T.M. B221, alloy 6061—T6 or alloy 6351—T5 (minimum elongation 10%).
- The stainless steel hex head and socket head cap screws shall meet the requirements of A.S.T.M. A276, type 430, and the dimensional requirements of A.N.S.I. B18.3.
- Dimensional tolerances not shown or implied are intended to be those consistent with the proper functioning of the part, including it a appearance, and accepted manufacturing practices.
- The post shaft shall be made from a single channel—shape extrusion welded to a plate shape. The post base and shaft shall then be welded together.
- Welding shall conform to the requirements of CSA Standards S244-1969, Welded Aluminum Design and Workmanship and W47.2-1967, Aluminum Welding Qualification Code. Aluminum Filler Alloy shall be one of the following: ER4043, ER5183. ER5356, ER5554, ER5556 and ER5654.
- The Contractor shall submit complete shop drawings consisting of three prints and one reproducible sepia to the Contract Administrator for approval prior to fabrication of aluminum traffic barrier components.
- Anti-seize coating to be applied to all threaded components when being assembled. i.e. LPS-3- Manufactured by Holt-Lloyd (Canada) Ltd. Markham, Ont. L3R-2Z3.

B-5903-21



WINNIPEG OF WORKS AND OPERATIONS DIVISION STREETS AND TRANSPORTATION DEPARTMENT

EMPRESS STREET OVERPASS STRUCTURE REHABILITATION, STRENGTHENING

RAIL STANDARD DETAILS

AND RELATED WORKS ALUMINUM TRAFFIC BARRIER

BI00-90-18 (RI)

CITY DRAWING NUMBER