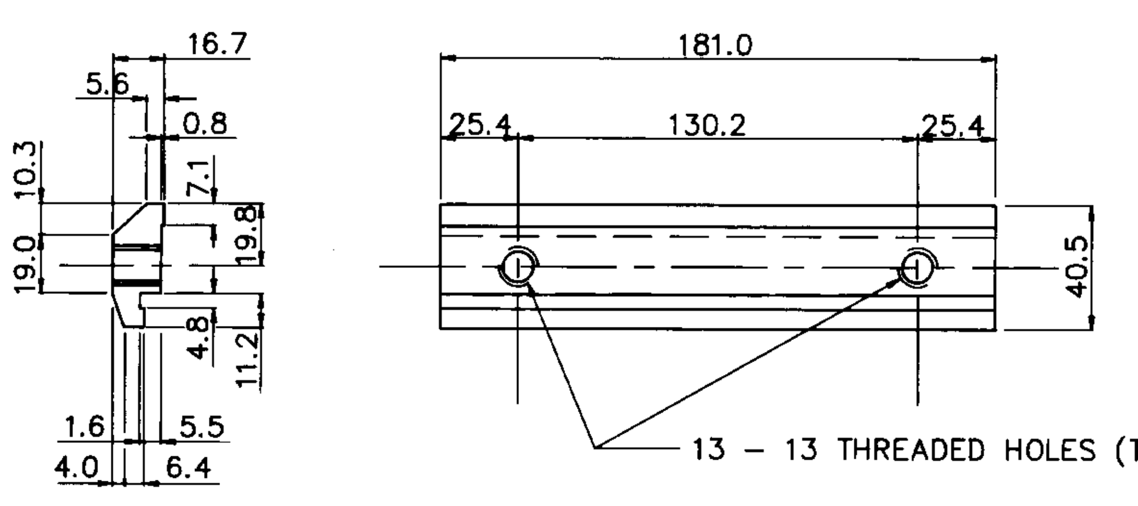
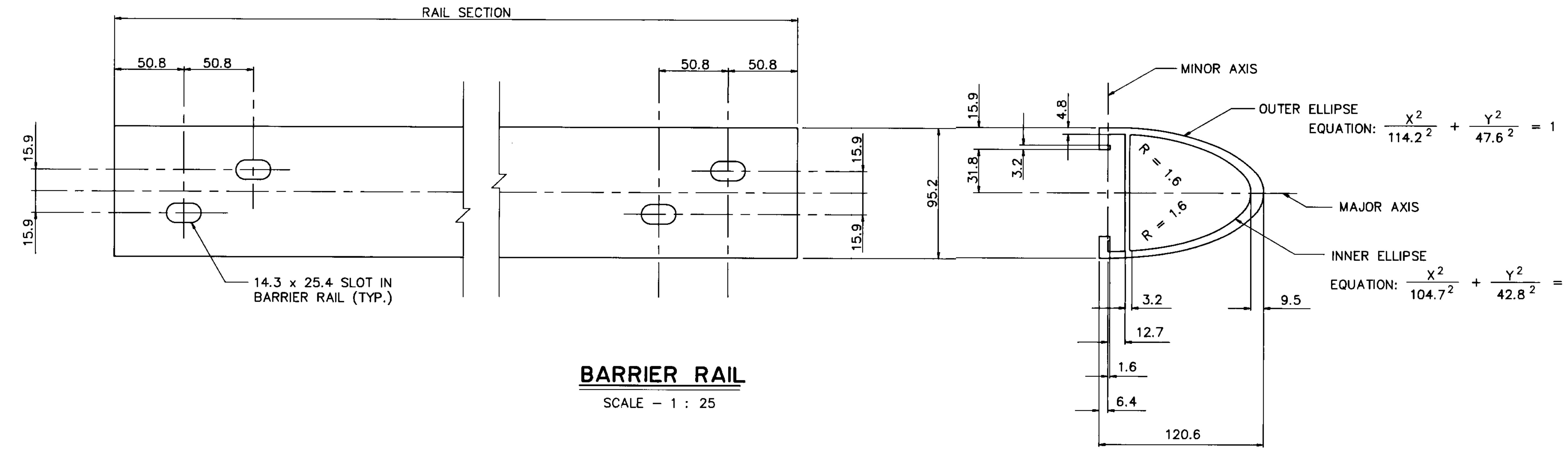


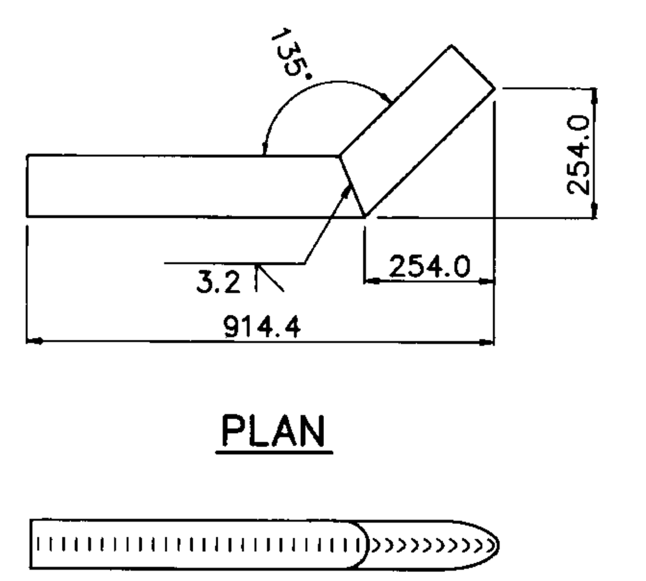
RAIL CLAMP BAR

SCALE – 1 : 25



BARRIER RAIL

SCALE – 1 : 25



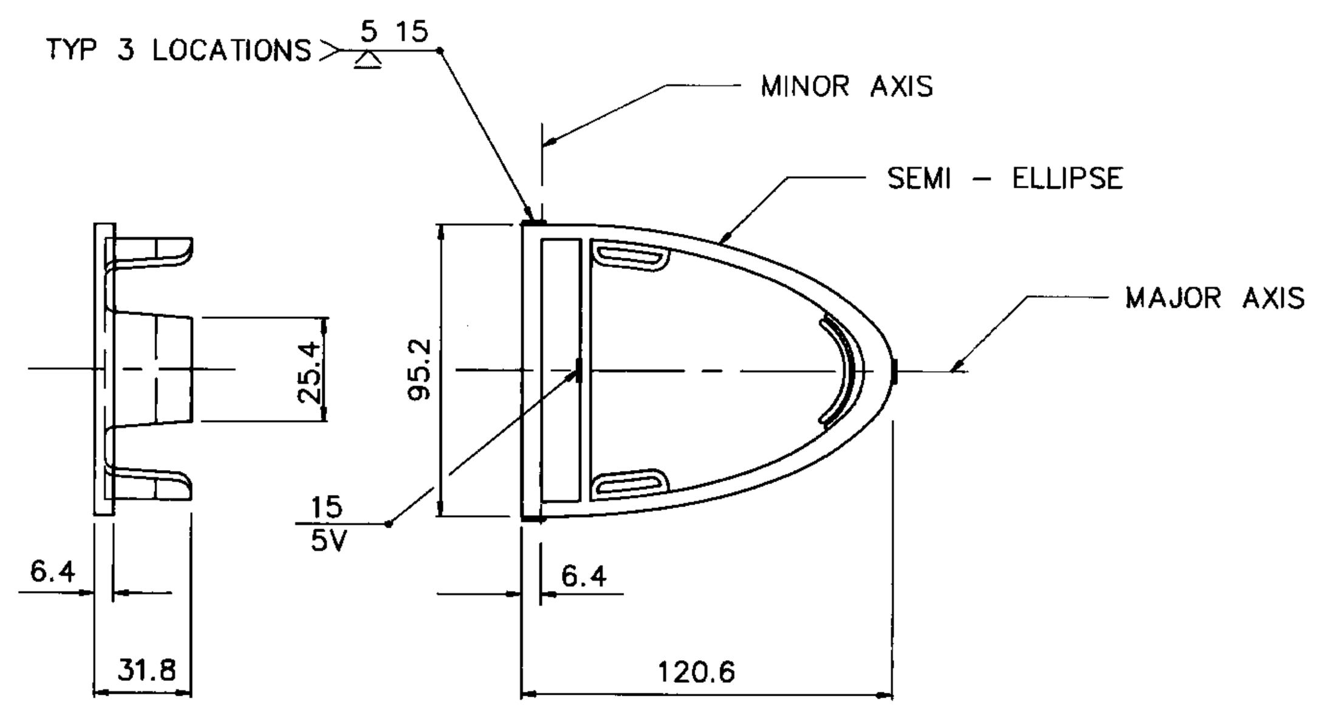
PLAN

FRONT ELEVATION

TERMINAL END

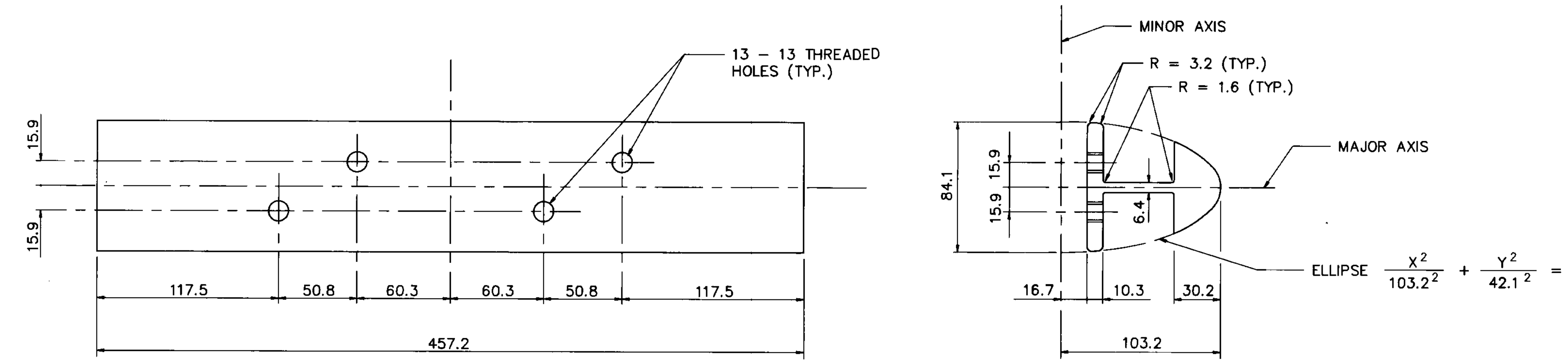
(FABRICATED FROM BARRIER RAIL)

SCALE – 1 : 150



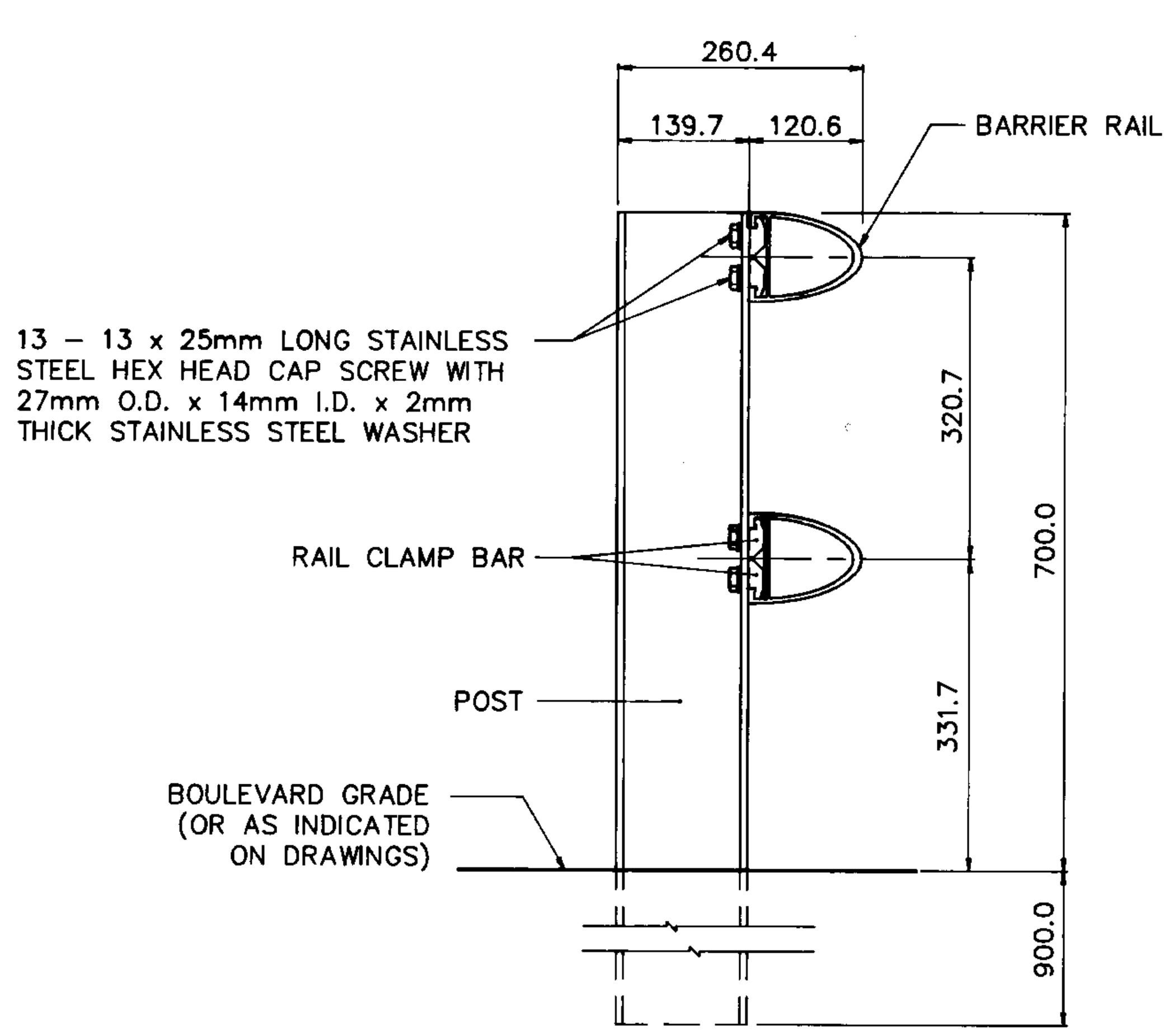
RAIL END CAP

SCALE – 1 : 25



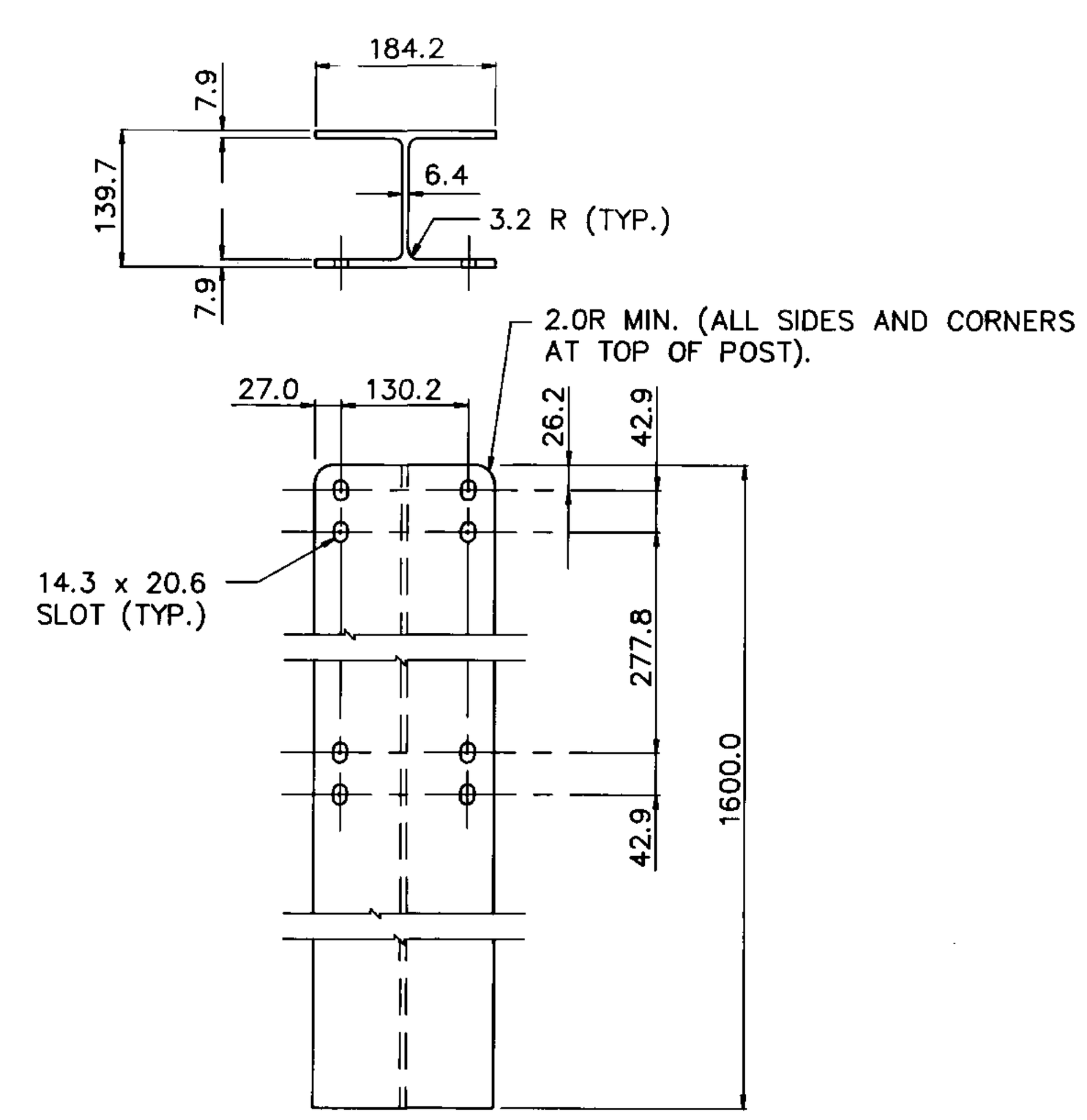
SPLICE BAR

SCALE – 1 : 25



RAIL TO POST ASSEMBLY DETAIL

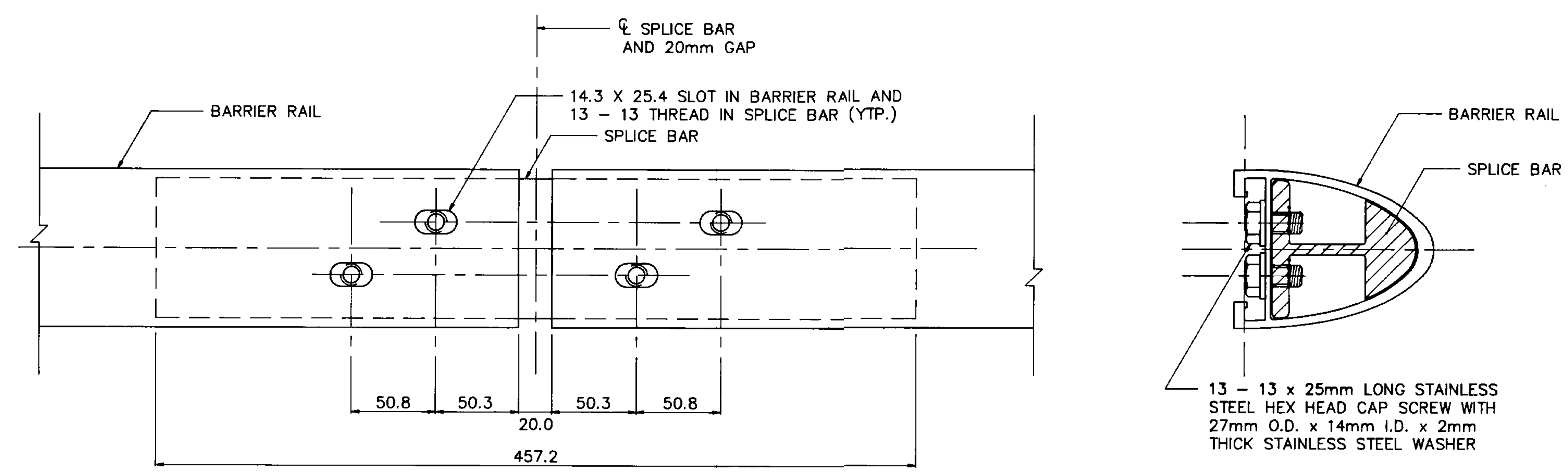
SCALE – 1 : 75



1.600m POST

(0.800m POST SIMILAR EXCEPT WITH
ONLY FOUR SLOTS AT TOP OF POST)

SCALE – 1 : 75



SPLICE BAR TO RAIL ASSEMBLY DETAIL

SCALE – 1 : 25

MATERIAL SPECIFICATION

1. ALUMINUM RAILS, POSTS, SPLICE BARS, AND RAIL END CAPS CONFORM TO ASTM B221, ALLOY 6061 – T6, OR ALLOY 6351 – T6.
2. TYPE 316. STAINLESS STEEL WASHERS CONFORM TO ASTM A296, TYPE 316.
3. CAP SCREWS CONFORM TO ASTM A276, TYPE 316 STAINLESS STEEL.
4. ANTI–SEIZE COATING APPLIED TO ALL THREADED COMPONENTS WHEN BEING ASSEMBLED, i.e. LPS–3–MANUFACTURED BY HOLT LLOYD (CANADA) LTD., MARKHAM, ONTARIO L3R 2Z3
5. TWO COATS, EACH 1mm IN THICKNESS OF ALKALI–RESISTANT BITUMINOUS PAINT APPLIED ON THE SURFACES OF POSTS AND RAILS THAT ARE IN CONTACT WITH THE GROUND.

PROVINCE OF MANITOBA
M. B. CHISLETT
94·09·21
REGISTERED PROFESSIONAL ENGINEER

METRIC

ALL DIMENSIONS SHOWN ARE IN MILLIMETRES

RECORD DRAWING

APPROVED BY: DATE: Dec 20/96

CW-302-R-2

B.M. ELEV.			
1	BASE DRAWING	90–2–9	twh
NO.	REVISIONS	DATE	BY

DILLON

Consulting Engineers · Planners
Environmental Scientists

DESIGNED BY	CHECKED BY
DRAWN BY	APPROVED BY
HOR. SCALE: AS SHOWN	APPROVED BY G.H. SMITH / SENIOR BRIDGE ENGINEER 94/10/12
VERTICAL:	ACCEPTED BY B. LEICHSNRING / BRIDGE ENGINEER 94/10/12
DATE SEPT. 1994	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
Sept 21/94
S. S. RIHAL
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NO. 92–3813–02– 38

THE CITY OF WINNIPEG

WORKS AND OPERATIONS DIVISION

STREETS AND TRANSPORTATION DEPARTMENT

PORTAGE AVE. CULVERT & UNDERPASS

OMAND'S CREEK CULVERT REHABILITATION, UNDERPASS, ROADWAY RESURFACING AND RELATED WORKS

BALANCED ALUMINUM BARRIER STANDARD DETAILS

CITY DRAWING NUMBER U200–95–38

SHEET OF

B-5983-38