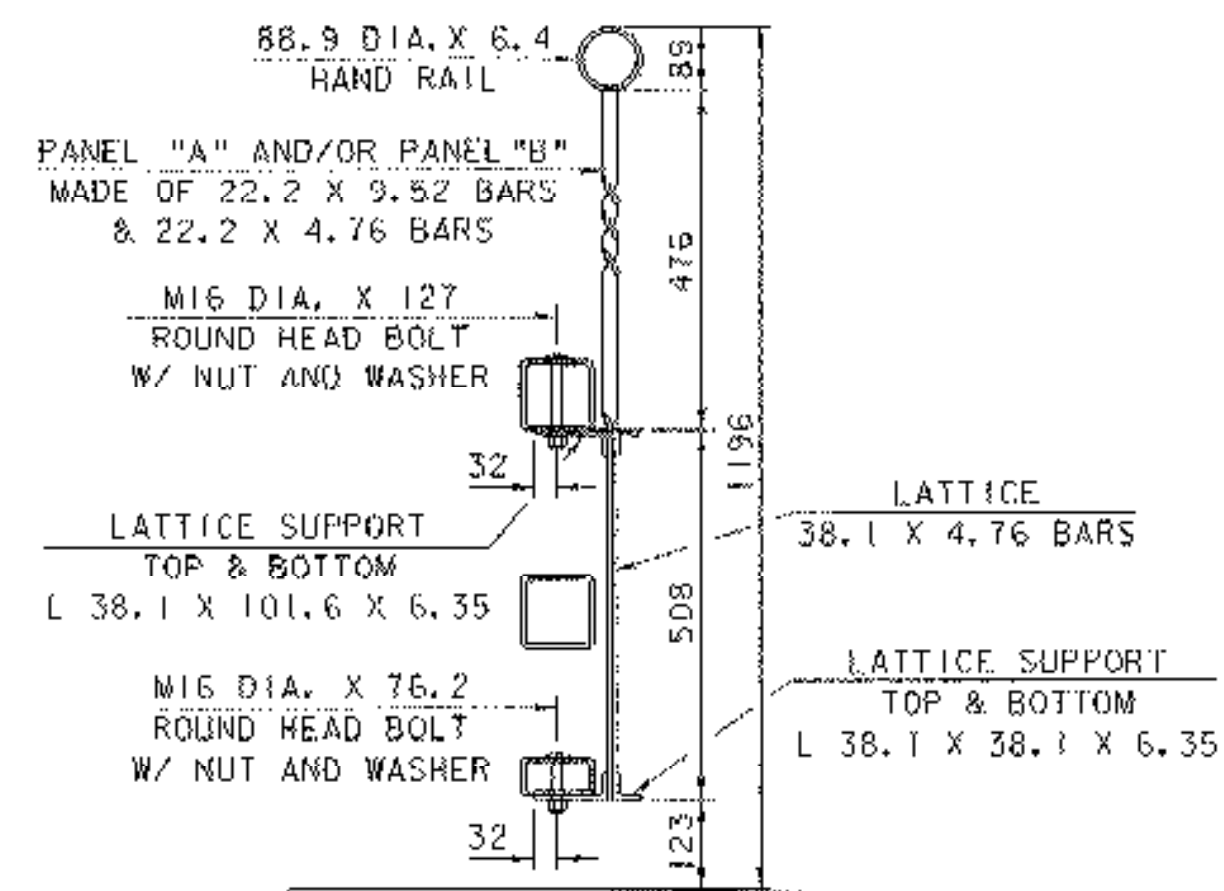
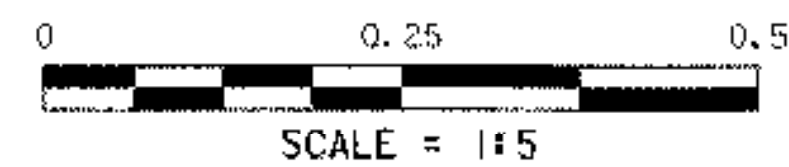
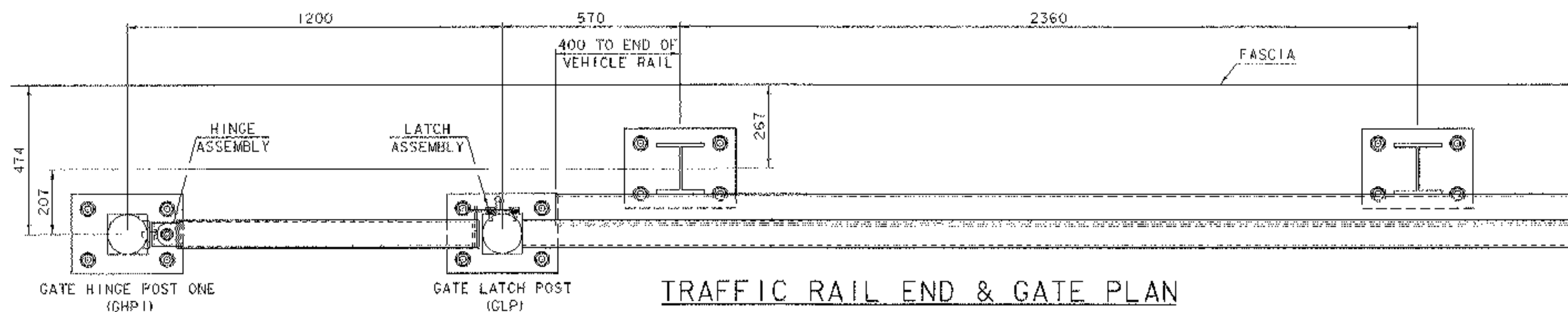
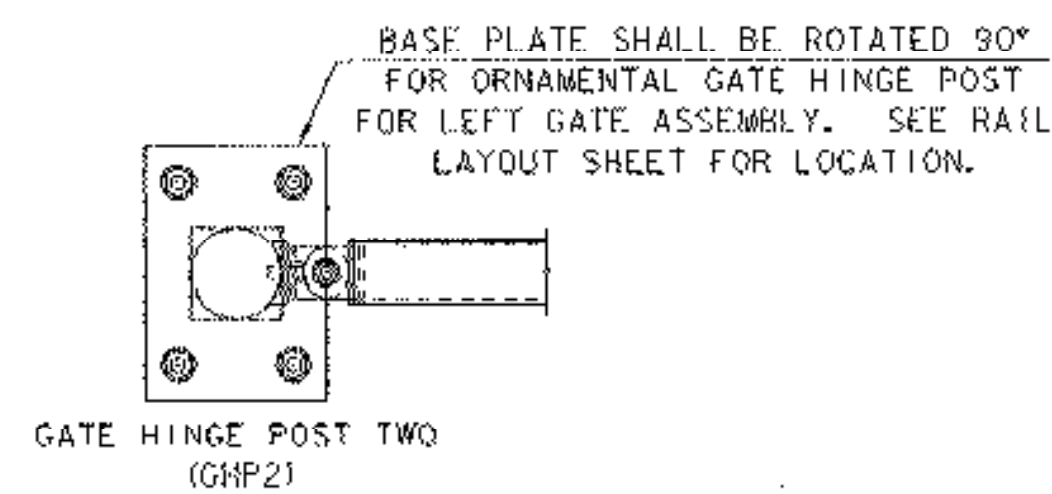
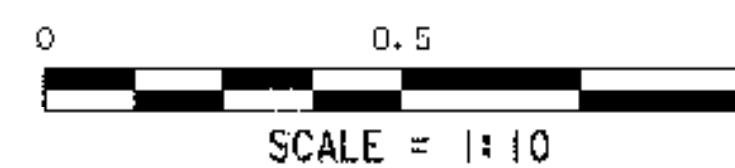


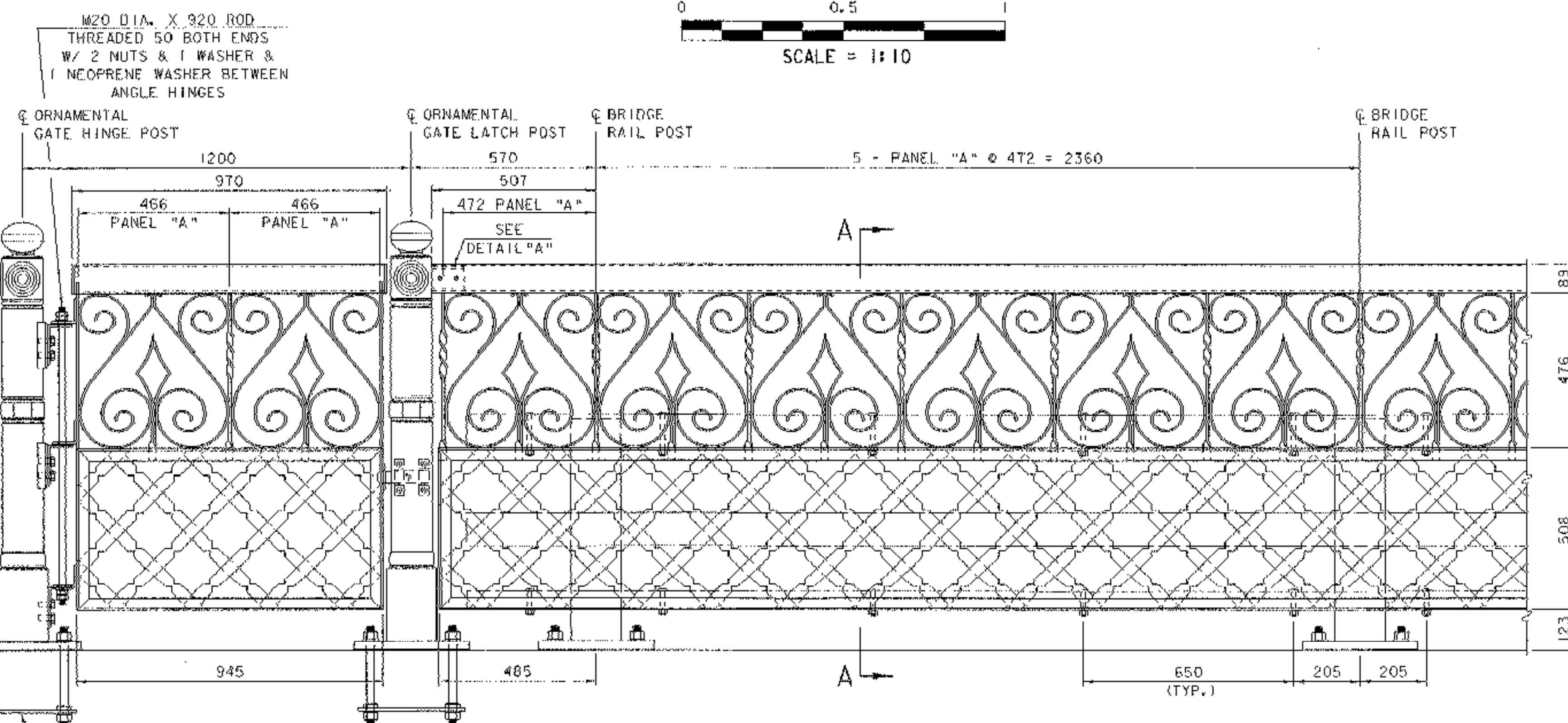
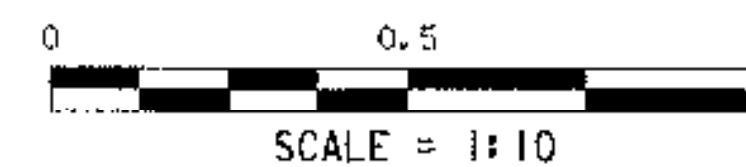
DETAIL "A"



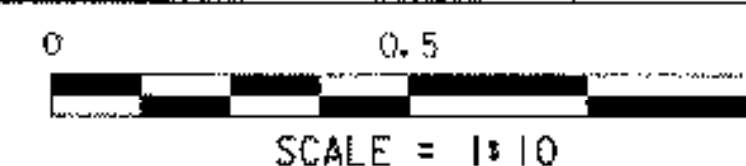
SECTION A-A



TRAFFIC RAIL END & GATE PLAN



TRAFFIC RAIL END & GATE ELEVATION



SEE POST BASE PLATE ANCHORAGE AND SPACER PLATE DETAILS ON BRIDGE RAIL DETAILS SHEET (TYP.)

CAST BOLTS HAD DIFFERENT BOLT PATTERN HAD TO CUT BOLTS POURED IN PLACE, DRILL & EPOXY NEW ONES IN PLACE

NOTES

1. ALL WORK AND MATERIALS SHALL CONFORM TO THE PROVISIONS OF SECTION 525 - RAILINGS OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.
2. ORNAMENTAL RAILING, CONSISTING OF RAILING, GATE ASSEMBLIES, POSTS, BASE PLATES, ANCHORAGE ASSEMBLIES, AND ANY OTHER COMPONENTS NECESSARY TO COMPLETE THE WORK SHALL BE PAID FOR UNDER ITEM 525.15, "METAL HAND RAILING (MOO.I)".
3. ALL EXPOSED CUT OR SHEARED EDGES SHALL BE ROUNDED TO A 1.6 mm RADIUS AND BE FREE OF BURRS.
4. ORNAMENTAL POSTS SHALL BE SET NORMAL TO GRADE.
5. ORNAMENTAL POST ANCHORING NUTS SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.
6. ORNAMENTAL RAIL SHALL BE FABRICATED IN SECTIONS AND SPLICED AT BRIDGE RAIL POST LOCATIONS AS SHOWN ON THE RAIL LAYOUT SHEET.
7. THE ORNAMENTAL RAILING SHALL BE SHOP PAINTED WITH A PROTECTIVE PAINT SYSTEM PER SECTION 513 - PROTECTIVE COATINGS. THE TOP COATING SHALL BE BLACK, COLOR PAINT CHIP #27038. PAYMENT FOR PAINTING OF THE ORNAMENTAL RAILING SHALL BE MADE SUBSIDIARY TO ITEM 525.15, "METAL HAND RAILING (MOO.I)".
8. ORNAMENTAL RAIL SHALL BE ATTACHED TO THE BRIDGE RAIL STRUCTURAL TUBING USING M16 FULL DIAMETER BODY AASHTO M164M (TYPE 1) ROUND HEAD BOLTS INSERTED THROUGH THE TOP OF THE STRUCTURAL TUBING. HOLES IN TUBING SHALL BE 2 mm LARGER THAN THE BOLT SIZE.
9. ANY BENDING OF RAIL SHALL BE BY SHOP PROCEDURE ONLY.
10. THE FABRICATOR SHALL SUBMIT SHOP DRAWINGS INCLUDING WELDING PROCEDURES TO THE STRUCTURES SECTION FOR APPROVAL IN ACCORDANCE WITH THE PROVISION OF 506.04, DRAWINGS AND PROCEDURES. ALL WELDING SHALL CONFORM WITH SECTION 506.10.
11. THE FABRICATOR MAY SUBMIT ALTERNATE GATE HINGE AND LATCH ASSEMBLY DETAILS TO THE STRUCTURES ENGINEER FOR APPROVAL.
12. ORNAMENTAL RAIL POSTS SHALL BE MADE OF GRAY IRON CASTINGS CONFORMING TO SECTION 715 - MISCELLANEOUS METALS OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. MINIMUM POST WALL THICKNESS SHALL BE 10mm.

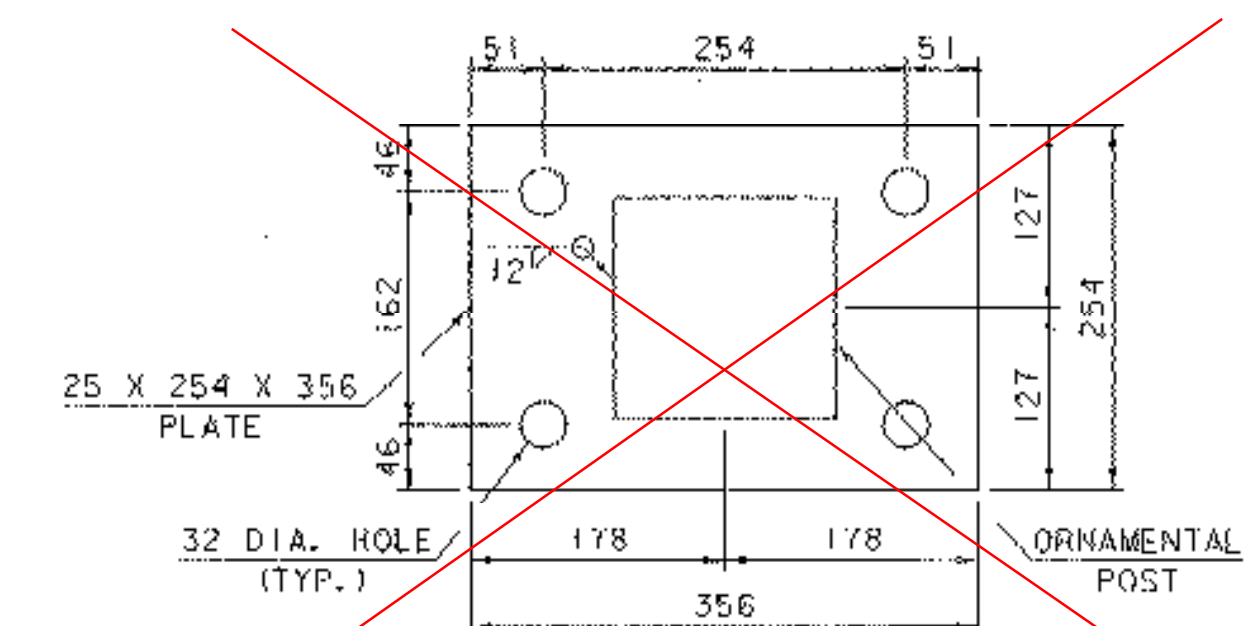
MATERIALS

ALL STEEL ROLLED SHAPES..... ASTM A36/ A36M
 ANCHOR STUDS..... ASTM F568M, CLASS 8.8
 ALL OTHER BOLTS (UNLESS NOTED)..... AASHTO M164M, TYPE 1
 ORNAMENTAL POSTS..... AASHTO M105, CLASS NO. 30B
 SOCKET SET SCREWS..... ASTM F912M

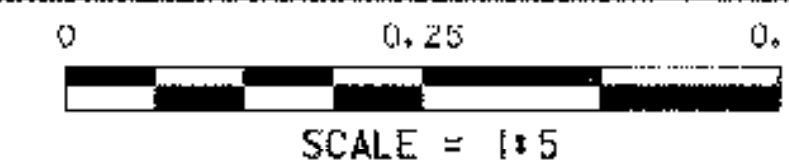
NUTS FOR AASHTO M164M BOLTS SHALL COMPLY WITH AASHTO M291M. NUTS FOR ANCHOR BOLTS SHALL COMPLY WITH AASHTO M291M.

WASHERS SHALL COMPLY WITH AASHTO M293M (ASTM F436M) SPECIFICATION.

3 mm PAD SHALL COMPLY WITH STANDARD SPECIFICATION SUBSECTION 731.01 OR 731.02.



ORNAMENTAL POST BASE PLATE



ORNAMENTAL RAIL DETAILS (I)

PROJECT NAME:	BRATTLEBORO
PROJECT NUMBER:	BRO 2000 (17)
FILE NAME:	94J078\structures\j078ord.l
PROJECT MANAGER:	R. R. WHITCOMB
DESIGNED BY:	G. ROY
PLOT DATE:	06-FEB-2003
DRAWN BY:	G. ROY
CHECKED BY:	T. SUMNER
SHEET	49 OF 71