HOLLOW STRUCTURAL STEEL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION A-500 GRADE B STRUCTURAL STEEL TUBING AND SHALL MEET THE LONGITUDINAL CAN RECHIREMENTS OF 15 ET. 185. AT M. F.

ALL OTHER STEEL SHAPES AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-270 GRADE 36 EXCEPT POSTS AND ANGLES SHALL CONFORM TO AASHTO M-270 GRADE 50.

BOLTS, CAP SCREWS, AND NUTS SHALL CONFORM TO THE REQUIREMENT OF ASTM DESIGNATION A-307 EXCEPT FOR HIGH STRENGTH BOLTS, NUTS AND WASHERS NOTED WHICH SHALL CONFORM TO AASHTO M-164.

ALL BOLTS, NUTS, CAP SCREWS, WASHERS AND LOCK WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M-232.

ALL POSTS, RAILING, RAIL SPLICES, ANCHOR DEVICES AND ANGLES SHALL BE GALVANIZED AFTER SHOP FABRICATION IN ACCORDANCE WITH AASHTO M-111 AND ASTM A-385. GALVANIZED RAIL SHALL NOT BE PAINTED.

FOR MULTI-SPAN BRIDGES, SUFFICIENT 1 X 6 X 1 1-2 CALVANIZED STEEL SHIMS SHALL BE PROVIDED TO ALIGN RAIL BETWEEN ADJACENT SPANS. COST INCIDENTAL TO STEEL RAILING, TYPE S-1.

ALL FIELD DRILLED HOLES SHALL BE COATED WITH AN APPROVED ZINC RICH

THE \$" X 7" X 6" PLATES THAT COME IN CONTACT WITH CONCRETE SHALL RECEIVE TWO COATS OF ASPHALT PAINT CONFORMING TO SECTION 760.07 TYPE 11 OR PLACE & " FABRIC BEARING PADS BETWEEN THE PLATES AND CONCRETE.

THE \$ " HIGH STRENGTH BOLTS USED TO CONNECT THE 6" X 4" X \$" ANGLES TO THE POST SHALL BE TIGHTENED IN ACCORDANCE WITH ARTICLE 505.04 *F* *3* OF THE STANDARD SPECIFICATIONS. THE 1''* HIGH STRENGTH BOLTS CONNECTING THE ANGLES TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL & TURN. THE & ... CAP SCREWS IN BOTTOM OF POSTS SHALL BE TIGHTENED TO A SNUG EIT ONLY.

THE MAXIMUM ALLOWABLE RAIL POST SPACING SHALL BE 10'-6'. THE RAIL POST SPACING SHOWN ELSEWHERE IN THE PLANS IS BASED ON THE ALLOWABLE SPACING FOR ANOTHER TYPE OF RAIL. WHEN THIS TYPE OF RAIL IS USED, THE NUMBER OF POSTS MAY BE DECREASED AND THE POST SPACING INCREASED TO PROVIDE EQUAL POST SPACES

TS 4'' X 12'' X +

TS 6'' X 4'' X 1''X 4''

LONG: TACK WELD TO POST

TOP OF

OVERLAY

NOTE A:

TS 6'' X 3'' X 1'' X 31'' LONG.

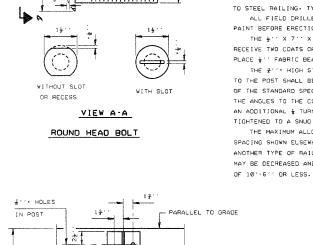
TACK WELD TO POST & PLATE

-- 1€'' + HOLES

SECTION AT RAIL POST

TOP OF BEAM.





2-3' * X 6'' ROUND HEAD BOLTS ·WITH SLOT OR APPROVED RECESS IN HEAD* WITH LOCKNUT & FLAT WASHER.

慢'' X 5₺'' SLOTTED HOLE

HOLES IN ANGLES

4 ... HOLES IN TURING MAY BE

IN POST

2-1''* X 7%'' H.S. BOLTS

WITH FLAT WASHER

* 1'' X 6'' X 13''-

EDGE OF BEAM

2-提 ''* HOLES IN ANGLES

SECTION B-B

1-43 ' X 54 ' SLOTTED

HOLE IN POST.

TS 6'' X 4'' X 1'' X 4'' LONG.

TACK WELD TO POST

2-8''* × 5}'' CAP SCREWS

WITH FLAT WASHER

2-3''' X 31"' H.S. BOLTS WITH

HEX. NUT & FLAT WASHERS

DRILLED IN THE FIELD.

AS REQUIRED

В

1₺''* HOLES

% ' x 3'' SLOTTED HOLES

Illinois Department of Transportation

Oraji O Kaspar Engines of Bridge Design

Ralph E. anderson

PASSED November 1, 1995

APPROVED November 1, 1995

Engineer of Bridges and Structures

SECTION A-A

