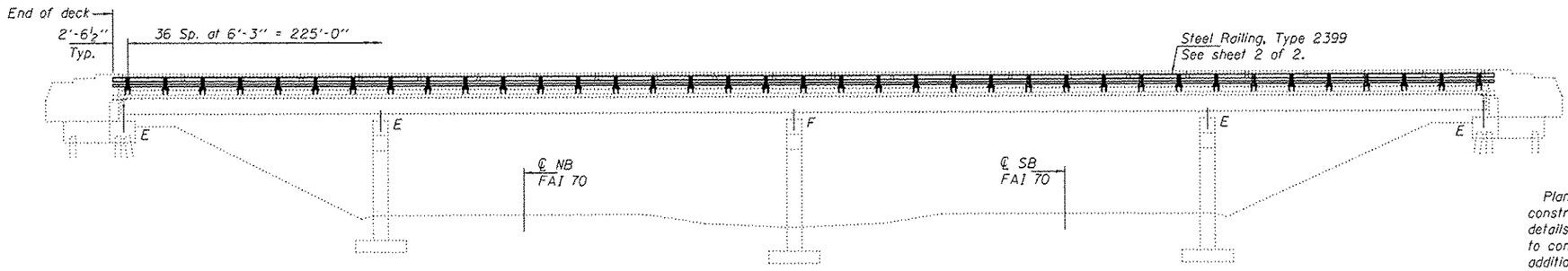


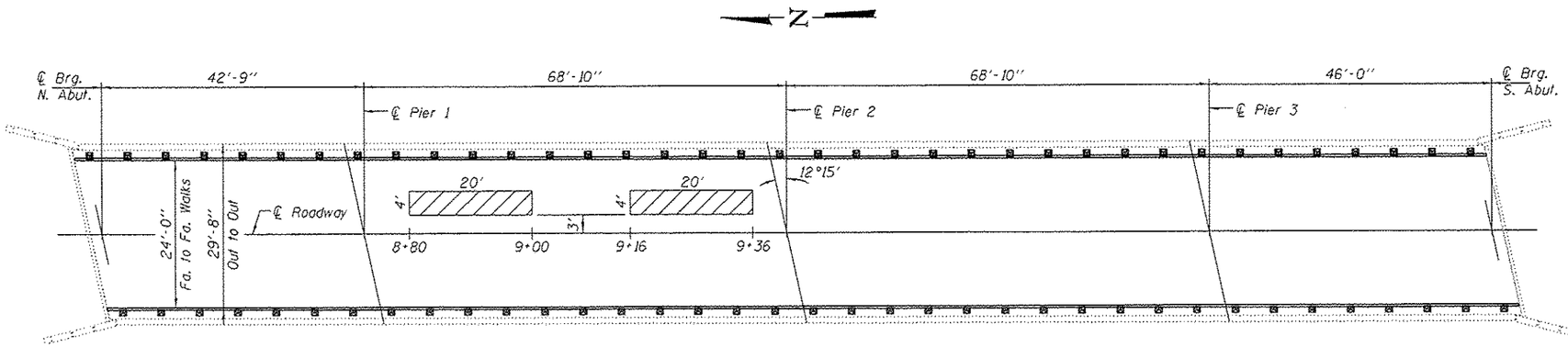
ELEVATION

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

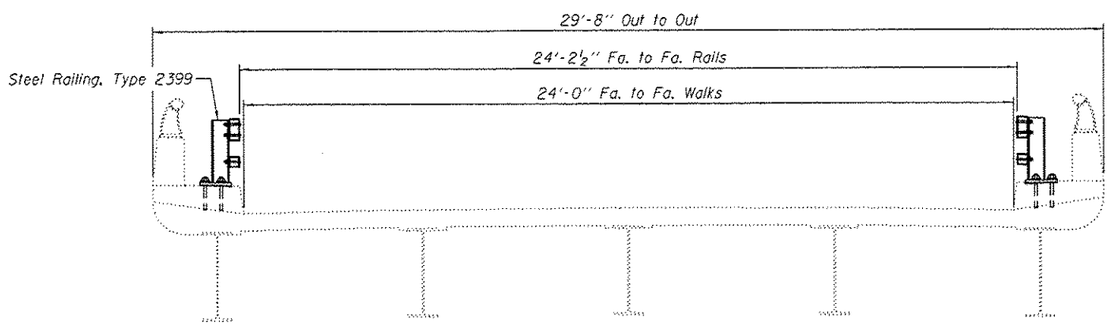
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

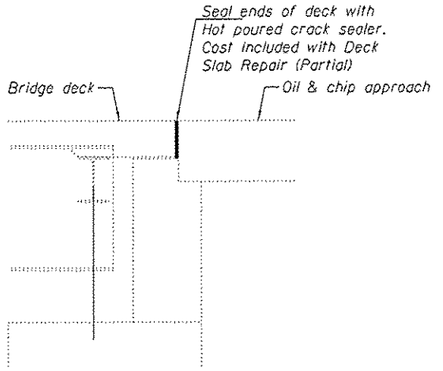


PLAN

Hatched areas indicate
Deck Slab Repair (Partial)



CROSS SECTION



SECTION THRU ABUTMENT

TOTAL BILL OF MATERIAL

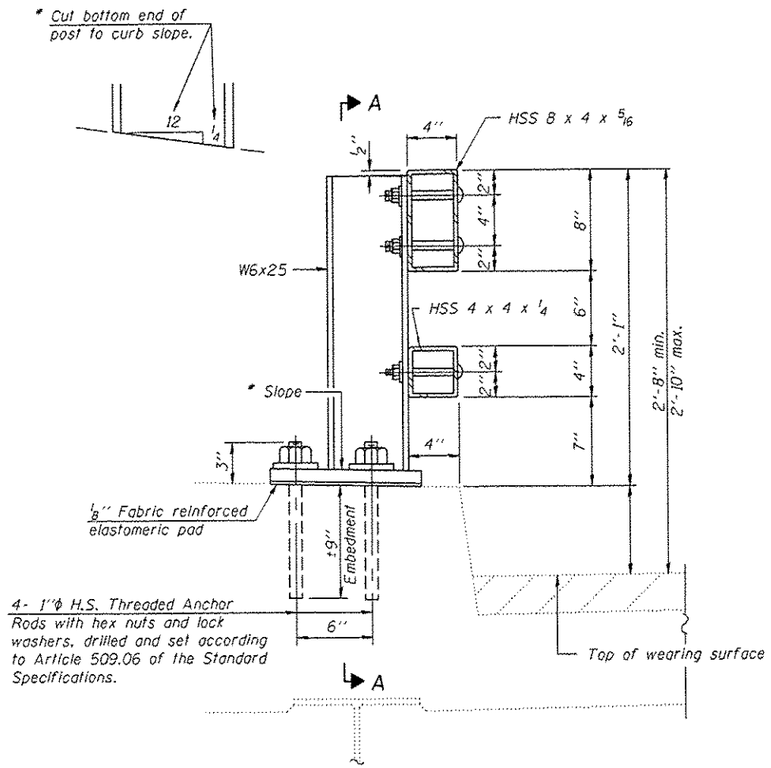
ITEM	UNIT	QUANTITY
Steel Railing, Type 2399	Foot	460
Deck Slab Repair (Partial)	Sq. Yd.	17.8

LICENSED STRUCTURAL ENGINEER
DAVID CARL PUZEY
081-005470
SPRINGFIELD
ILLINOIS
STATE OF ILLINOIS

EXPIRES 11-30-2014

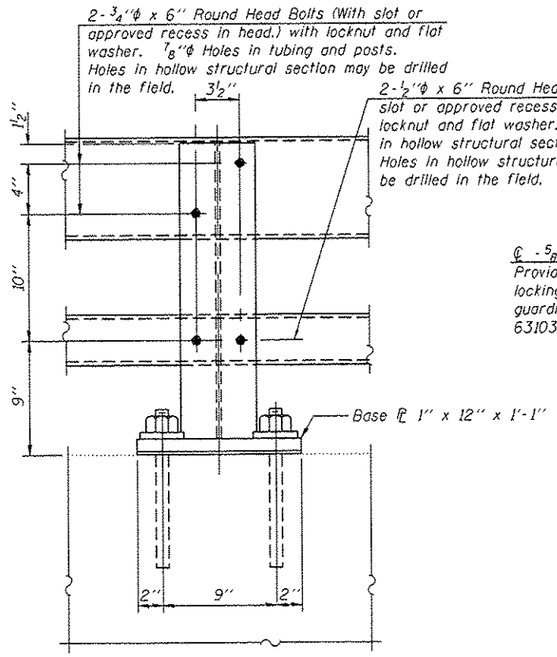
DESIGNED	John Clark	EXAMINED		DATE	AUGUST 18, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND ELEVATION OLD STAUNTON RD OVER FAI 70 SN 060-0174 SHEET NO. 1 OF 2 SHEETS
CHECKED	Stephen M Ryan	PASSED	ACTING ENGINEER OF STRUCTURAL SERVICES	REVISED			
DRAWN	baliva		ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED			
CHECKED	TLC SMR						

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	60-111,121RS-3	MADISON	242	219
		CONTRACT NO. 76F13		
	ILLINOIS FED. AID PROJECT			

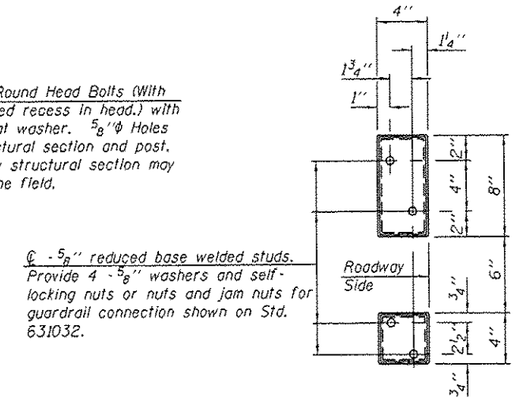


SECTION AT RAIL POST

BASE PLATE DETAIL

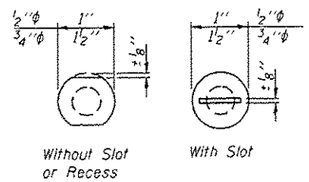


SECTION A-A

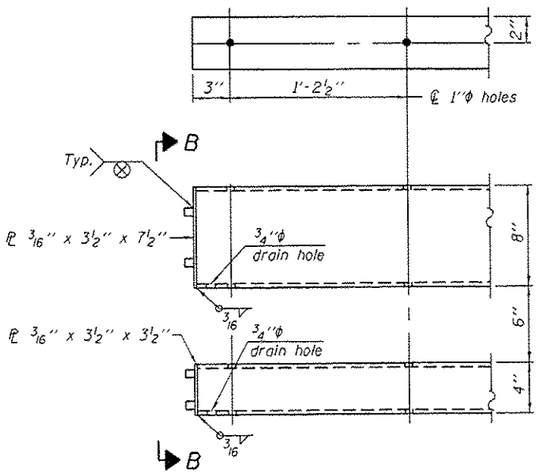


℄ - 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.

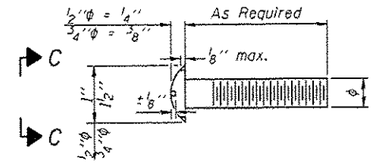
VIEW B-B



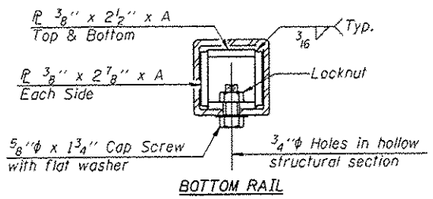
VIEW C-C



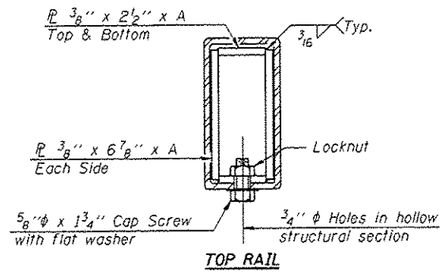
END OF RAIL DETAILS



DETAIL OF 1/2"ϕ & 3/4"ϕ ROUND HEAD BOLTS

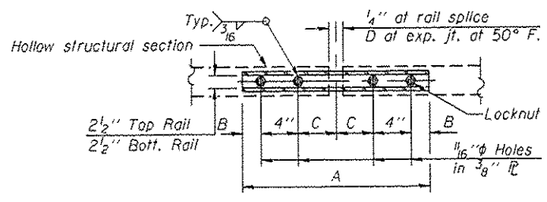


BOTTOM RAIL

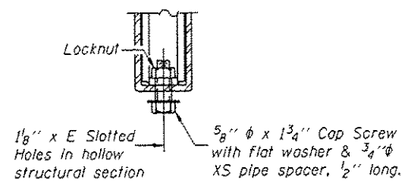


TOP RAIL

SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE PL TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

Notes:

All field drilled holes shall be coated with an approved zinc rich paint before erection.

Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.

Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.

Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤4"	2 1/2"	1'-8"	2"	4"	2 1/2"
>4" ≤6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
>6 1/2" ≤9"	5"	2'-4"	3 1/2"	6 1/2"	9"
>9" ≤13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	460

(6'-3" Maximum Post Spacing)

R-31 7-1-10

DESIGNED TLC	EXAMINED	DATE AUGUST 18, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED SMR	PASSED	REVISED	
DRAWN baliva	ACTING ENGINEER OF STRUCTURAL SERVICES	REVISED	
CHECKED TLC SMR	ACTING ENGINEER OF BRIDGES AND STRUCTURES		

STEEL RAILING, TYPE 2399
SN 060-0174
SHEET NO. 2 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO	60-111,121RS-3	MADISON	242	220
		CONTRACT NO. 76F13		
	ILLINOIS FED. AID PROJECT			