

ROUTE NO.	BRANCH	ROUTE NO.	ROUTE NUMBER	ROUTE NUMBER
FAS 287	OSBORNE	HENRY	31	28
DE BROWN ONLY, NO. 3	ALLWOOD	WILLIAMS	PROGRESS	1

attract #64825

SHEET NO. 16  
16 SHEETS

120' - 7" END TO END OF RAILING

### 8 SPACES AT 9° - 0° = 72° - 0°

8 SPACES AT 9° = 0° = 72° = 0°

*5'-5½" 2 SPACES AT 8' - 9"*      *2"-4" EAST RAILING*

E' - S' 12 SPACES AT 7' - 9"      2' - 4" WEST RAILING

AS Required

$\frac{3}{4}$ "  
1/2" max.  
 $\frac{1}{2}$ "  
 $\frac{1}{2}$ "  
 $\frac{1}{2}$ "

DETAIL OF  $\frac{3}{4}$ " Ø ROUND HEAD BOLT

**VIEW A-A**

This technical drawing illustrates a mechanical component's layout. It features a central rectangular area with a cross-hatched pattern. Four holes are arranged in a square pattern within this area. The overall width of the component is indicated as  $17\frac{1}{2}''$ . The height is divided into two sections:  $12\frac{1}{2}''$  from the bottom to the top edge of the central pattern, and  $3\frac{1}{2}''$  from the top edge to the top surface. The left side shows a vertical dimension of  $5\frac{1}{2}''$  from the bottom to a horizontal line, and a total height of  $17\frac{1}{2}''$  from the bottom to the top surface. The right side shows a vertical dimension of  $4\frac{1}{2}''$  from the bottom to a horizontal line, and a total height of  $17\frac{1}{2}''$  from the bottom to the top surface. A note on the left specifies "7 $\frac{1}{2}''$  # Holes in post". A note on the right specifies "7 $\frac{1}{2}''$  # Holes in angles". A small arrow points to the left side of the drawing.

**SECTION A-A**

**SECTION AT RAIL POST**

EXISTING:  
I 1" x 6" x 13"

1/8" # Holes  
in angles

I 1/2" x 7"

33 1/2" 33 1/2"

1/2" 1/2"

HSS 10" x 6" x 1 1/4" x 3 1/2" long  
Tack weld to post.

L 6" x 4" x 3/8" X  
It" long

Grind 1/16" Chamfer

4-1/8" Holes in angles  
2-1/16" x 5 1/2" Slotted

W6x25

### SECTION B-B

The technical drawing illustrates a bridge pier connection. It features a vertical column labeled 'E Post' at the top, with a height of 34". A horizontal plate is attached to the post, with a width of 6 1/2". The plate has four circular holes arranged in a 2x2 grid. The distance between the centers of the holes in each row is 2 1/2", and the distance between the centers of the holes in each column is 3 3/4". A bracket labeled 'P' is shown connecting the post to a horizontal beam. The bracket has a thickness of 1 1/2" and a height of 6" x 13". A note indicates 'Cast 1" voids behind each nut'. A vertical pipe labeled '#3 bar' is shown being welded to the post. A note specifies '3 1/2" #6 stud or solid flux filled headed studs conforming to article 1006.32 of the Std. Specs. automatically end welded. (6 Required per P)'. Another note refers to '3 1/2" # KKS Pipe or Hex Coupler Nuts conforming to AASHTO M291, Grade A - 3" long welded to #3 bar and Top pipe for 5/8" # Cap Screw.'

### EXISTING ANCHOR DEVICE

FOR INFORMATION ONLY

$\frac{1}{2}$  -  $\frac{5}{8}$ " reduced base  
welded studs. Provide  
 $4$  -  $\frac{5}{8}$ " washers and  
self-locking nuts or nuts  
and jam nuts for  
guardrail connection  
shown on SIA 631117

VIEW B-8

FOR INFORMATION ONLY

EXISTING TYPE SW MODIFIED  
STEEL BRIDGE RAIL SIDE MOUNTED

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F.A.S. ROUTE 227 (OSCO ROAD)  
OVER CAMP CREEK  
SECTION 105BR-2  
HENRY COUNTY  
STATION 109+94.50  
STRUCTURE NO. 037-00083

CHAMPAIGN, ILLINOIS  
CHICAGO, ILLINOIS  
EVANSTVILLE, INDIANA  
INDIANAPOLIS, INDIANA  
KENOSHA, WISCONSIN

REVISIONS		SPRING GREEN, WISCONSIN	
NAME	DATE	NOTE: DIMENSIONAL DATA IS NOT TO BE UNDERTAKEN BY REMOVING ANY PORTION OF THIS DRAWING.	
		DESIGNED BY: <u>S.A.C.</u>	REVISION NO: <u>1023012</u>
		DRAWN BY: <u>H.P.W.</u>	PRINTED BY: <u>L.D.G.</u>
		BUREAU BY: <u>54.M.</u>	APPROVED BY: <u>54.M.</u>
		APPROVED BY: <u>54.M.</u>	ACTUAL BY: <u>54.M.</u>
		S-16	

S-16