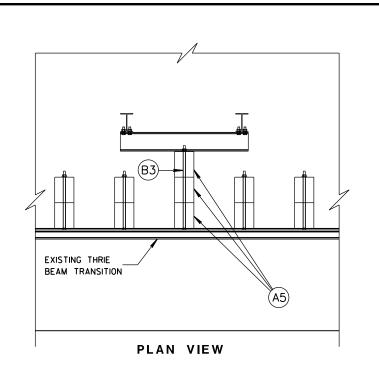
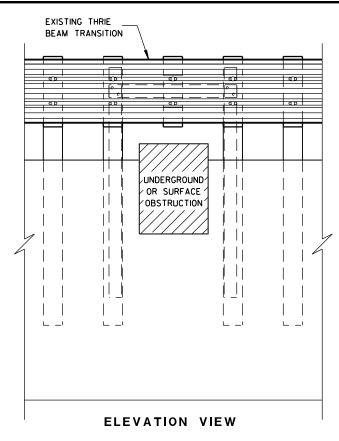
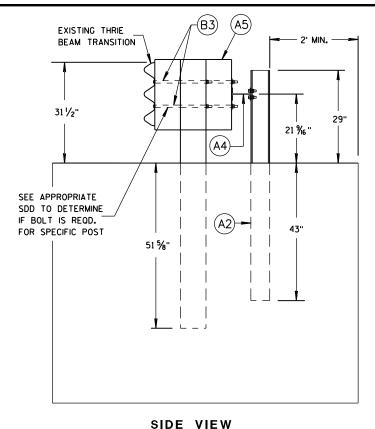


SDD 14B50-a Thrie Beam Approach Retrofit Installation of Missing Post - Missing Post Cross-Beam Layout







GENERAL NOTES

ONLY ONE SUCH POST RETROFIT PER SYSTEM.

SEE SDD 14B20 FOR MORE INFORMATION ON THE THRIE BEAM TRANSITIONS.

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 21/2-INCHES AND 12-INCHES IN DIAMETER AROUND POST. SEE SDD 14B20 OR 14B45 FOR MORE DETAILS.

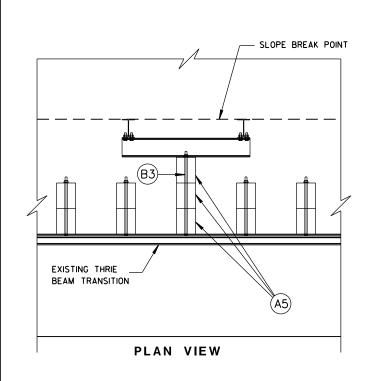
ONLY STEEL POST CAN BE USED.

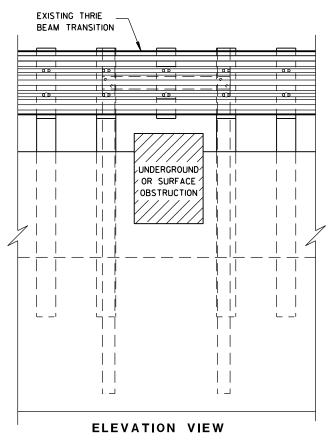
BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN ALL HARDWARE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH.

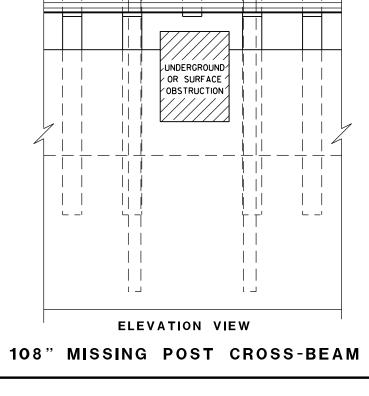
ONLY ONE WASHER AND ONE NUT CAN BE INSTALLED AT A CONNECTION. CUT THREADING OF BOLTS SO THAT NO MORE THAN $\frac{1}{4}$ -INCH TO $\frac{1}{2}$ -INCH OF THREADING IS BEYOND THE NUT.

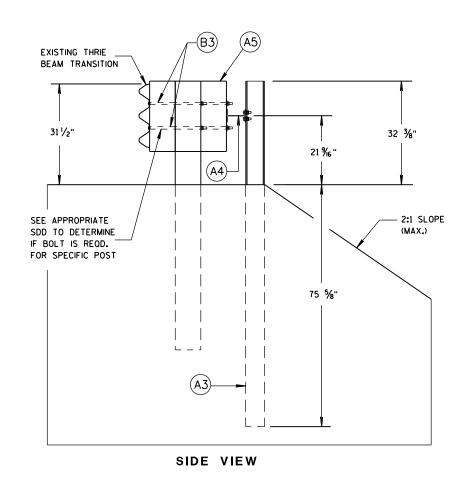
WHEN USING APPROACH RETROFIT POST BID ITEM, REVIEW SDD 14B20 INSTALL POST INFORMATION AND LOCATION, BLOCK AND HARDWARE.

72" MISSING POST CROSS-BEAM









THRIE BEAM APPROACH RETROFIT INSTALLATION OF MISSING POST

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

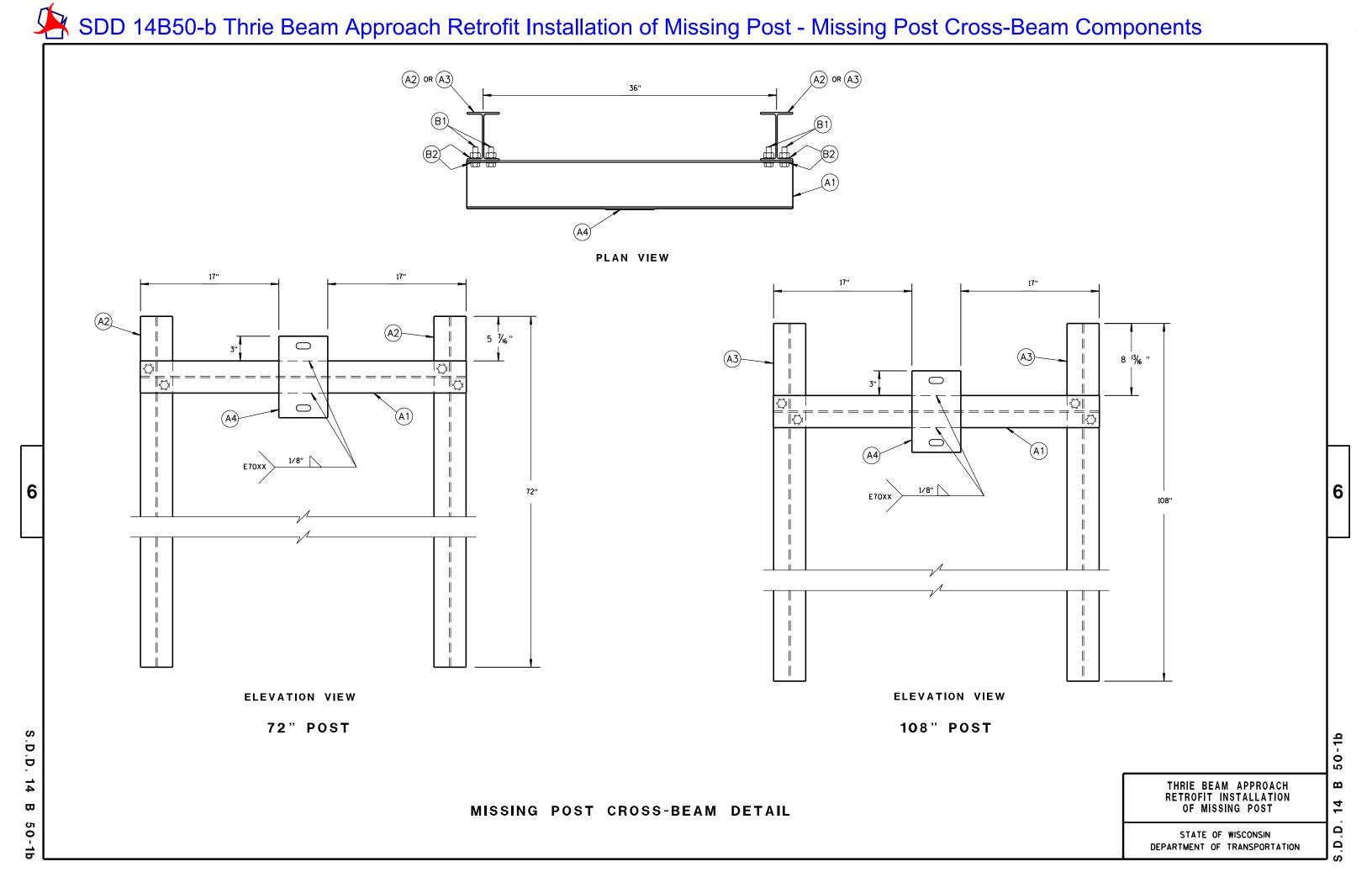
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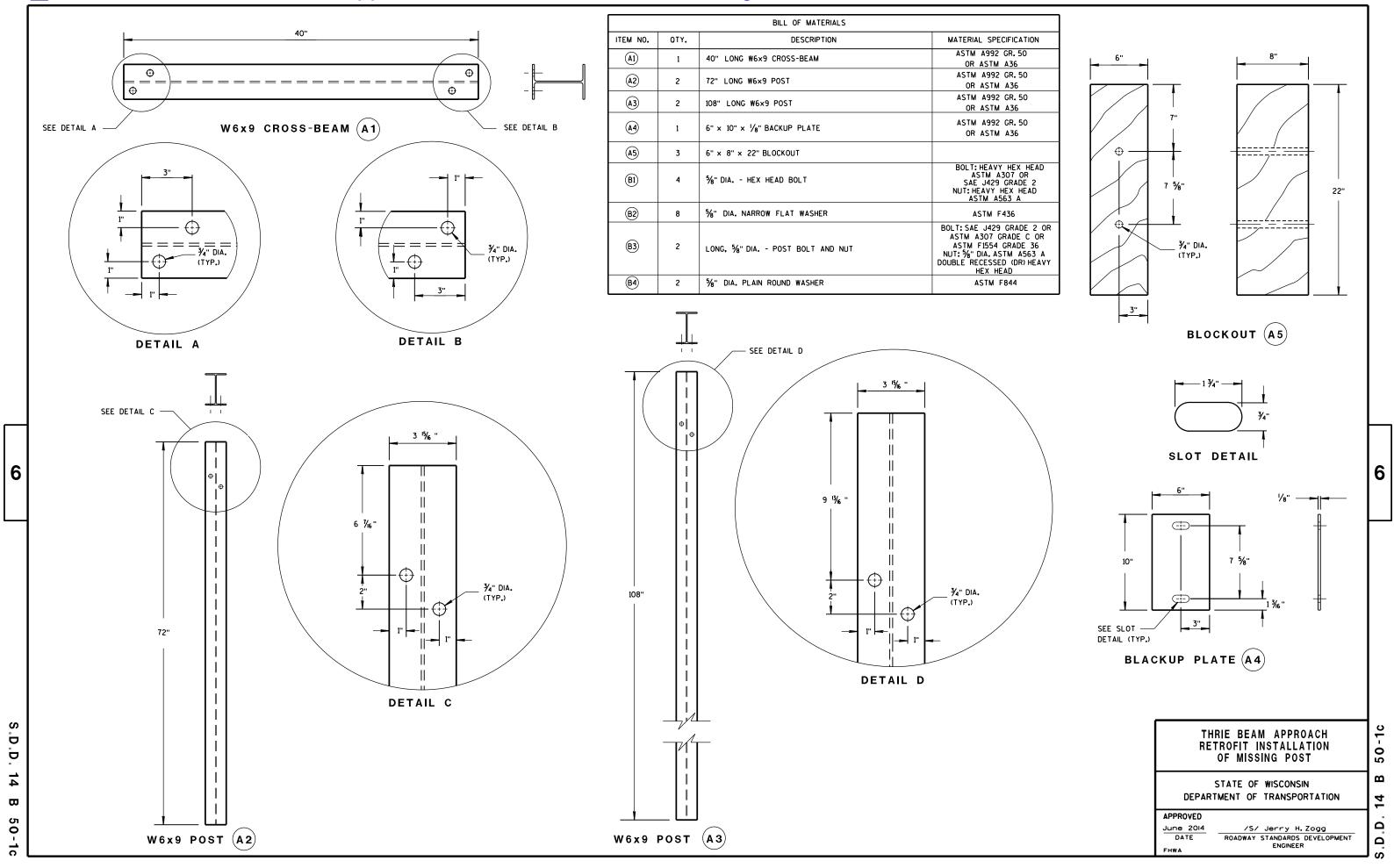
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SDD 14B50-c Thrie Beam Approach Retrofit Installation of Missing Post -Post Details, Bill of Materials



Version 1

Standard Detail Drawing 14B50 (sheet abc)

June 26, 2014

Thrie Beam Approach Retrofit Installation of Missing Post

References:

Standard Spec 614 FDM 11-45-30 TRP 03-266-12

Bid items associated with this drawing:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
614.0215	Steel Thrie Beam Structure Approach Retrofit Span	EACH
614.0216	Steel Thrie Beam Structure Approach Retrofit Post	EACH

Standardized Special Provisions associated with this drawing:

STSP NUMBER TITLE

NONE

Other SDDs associated with this drawing:

SDD 14B20 Thrie Beam Structure Approaches

Design Notes:

Use this retrofit alternative on 3R projects with an existing thrie beam transition that is missing the upstream of first post next to the bridge parapet on Class A thrie beam transitions to rigid barrier. Retrofit alternative is not for new installations of thrie beam transitions or new bridge parapets. These installations should be designed to accommodate all posts and proper grading of the thrie beam transition.

Review <u>FDM 11-45-30.5</u> and <u>FDM 11-45 Attachment 20.1</u> to determine if using the retrofit alternative is feasible. Type of work near thrie beam transition may influence what options are available.

- Option 1: Installing a post using bid item Steel Thrie Beam Structure Approach Retrofit Post.
- Option 2: Installing multiple blocks and retrofit assembly using Steel Thrie Beam Structure Approach Retrofit Span.

Use Option 2 when a flume, shallow pipe or other object can prevent the use of option 1. Review width of flume, shallow pipe or other object when using Option 2. Option 2 may not have the span length needed to bridge all obstacles

Do not use this retrofit alternative in combination with other retrofits or thrie beam deficiencies. If other deficiencies can be repaired (e.g. torn thrie beam rail or busted post is repaired...) then it is acceptable to use retrofit alternative. If a significant amount of repair is required, installing a new transition may be the best choice.

Contact Person:

Erik Emerson (608) 266-2842