



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue

Room N755

Indianapolis, Indiana 46204-2249

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FRANK O'BANNON, Governor
CURTIS A. WILEY, Commissioner

March 30, 1999

Writer's Direct Line

MEMORANDUM
99-03

TO: District Directors
District Construction Engineers
District Area Engineers

FROM: Timothy D. Bertram, Chief
Operations Support Division

SUBJECT: Detail Changes to Standard Drawings for Guardrail Transition, Type TGB

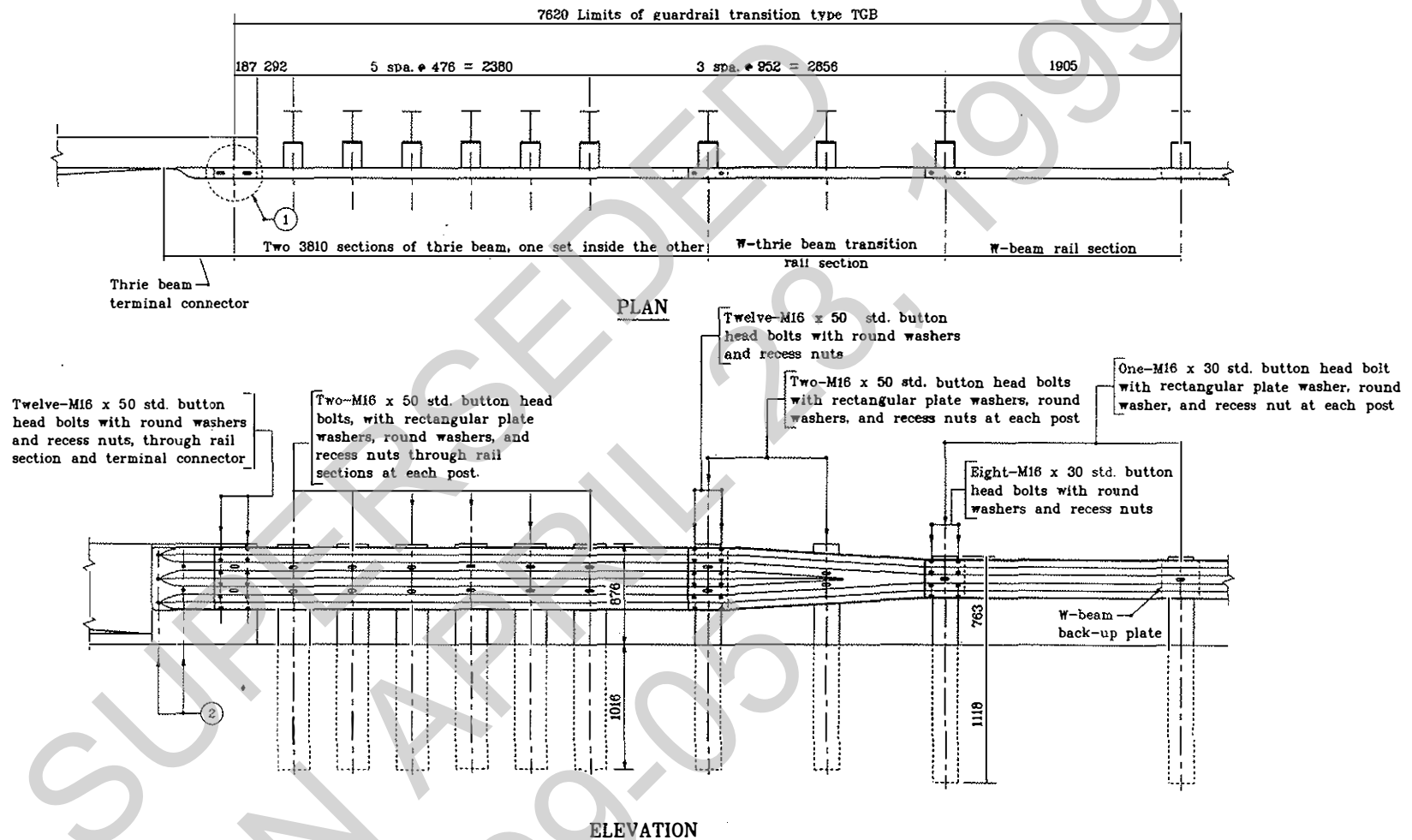
This memorandum is being sent out to all districts to inform them of changes that have recently been made to the standard drawings for the guardrail transition referenced above. It was brought to our attention that our current drawings dated 5/3/99 were in error. They were not drawn with details that matched the transitions as they were crash tested. Our Standards Section has revised those drawings and they are attached herewith for your reference.

Any active or future contracts that have these types of transition connections must use these details for erection and placement. It appears that there are no major material changes only connection detail changes at the three beam terminal connector. Also the height of the rail and the soil embedment dimensions have changed some.

Please see that all contracts are reviewed that have guardrail of this nature and that the contractor uses these details for installation. We feel there will be no additional costs to the contractors for these changes; however, if there is a delay to the prime contractor's controlling operation due to fabrication because they were waiting on these revised standards, the district should review each delay on a case to case basis.

DAK:dak

Attachments



GENERAL NOTES

- ① See Standard Drawing 601-TTGB-02 for Lap Detail.
- ② See Standard Drawing 706-CERT-02 for connection details.
3. See Standard Drawings 601-TTGB-03 through -05 for post and block details.

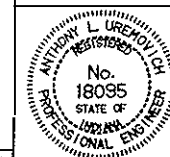
All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

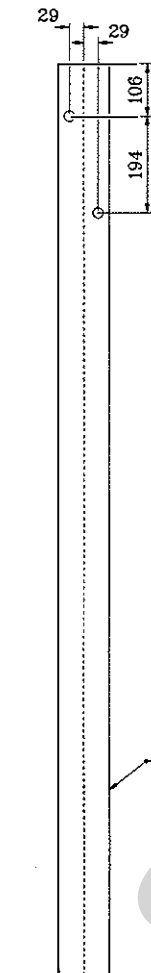
GUARDRAIL TRANSITION TYPE TGB

SEPTEMBER 1999

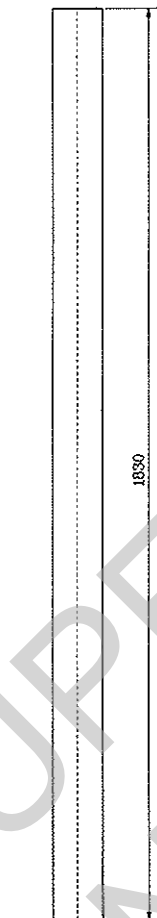
STANDARD DRAWING NO. 601-TTGB-01



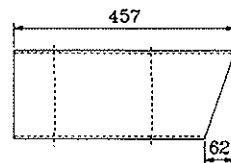
Anthony L. Urekhov 9-1-99
DESIGN STANDARDS ENGINEER DATE
Daniel W. [Signature] 9/1/99
CHIEF HIGHWAY ENGINEER DATE



FRONT VIEW



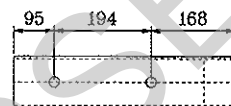
BACK VIEW



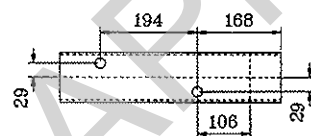
SIDE VIEW



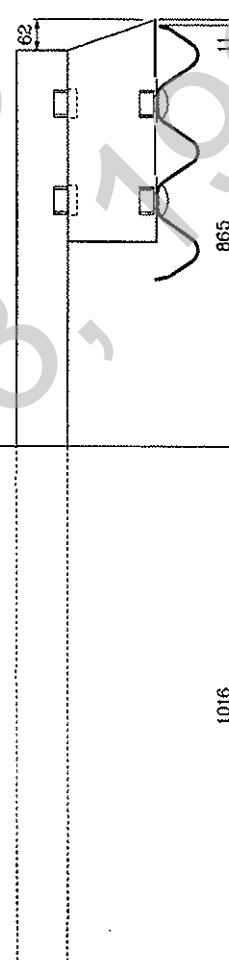
TOP VIEW



FRONT VIEW



BACK VIEW



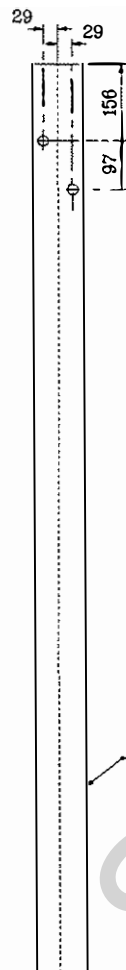
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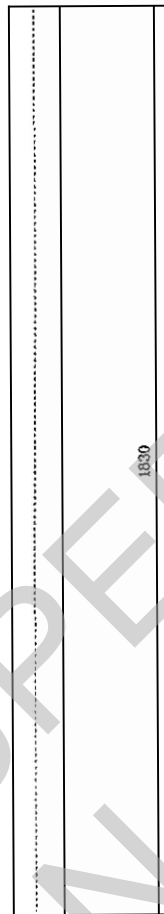
POST AND BLOCK AT
THRIE BEAM / W-THRIE
TRANSITION SECTION SPLICE

All dimensions are in mm unless otherwise specified.

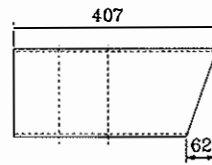
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GUARDRAIL TRANSITION	
TYPE TGB	
SEPTEMBER 1999	
STANDARD DRAWING NO. 601-TTGB-03	
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	Donald W. Jones 9/1/99 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	



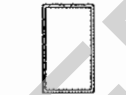
FRONT VIEW



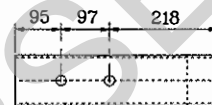
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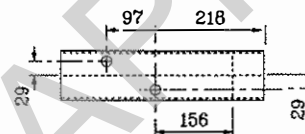
SIDE VIEW



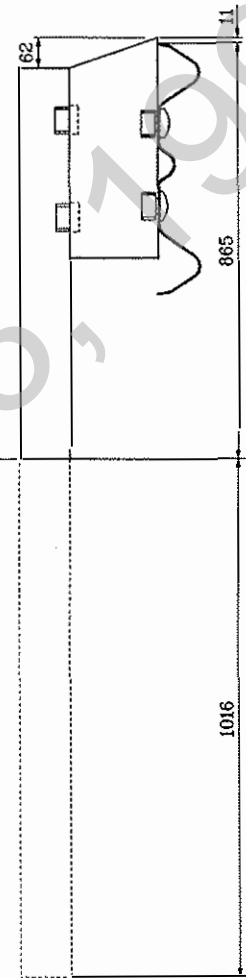
TOP VIEW



FRONT VIEW



BACK VIEW



NOTE:

1. All holes drilled or punched to 21 dia.

POST AND BLOCK AT
THRIE BEAM / W-THRIE
SECTION CENTER POST

All dimensions are in mm unless otherwise specified.

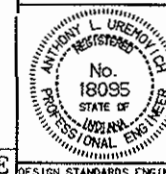
INDIANA DEPARTMENT OF TRANSPORTATION

GUARDRAIL TRANSITION

TYPE TGB

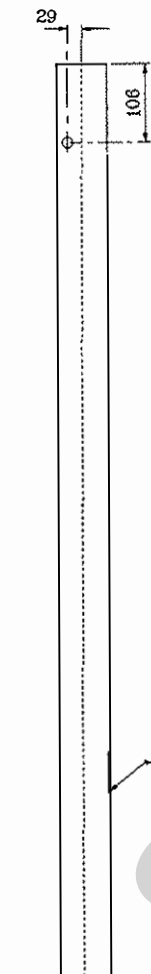
SEPTEMBER 1999

STANDARD DRAWING NO. 601-TTGB-04

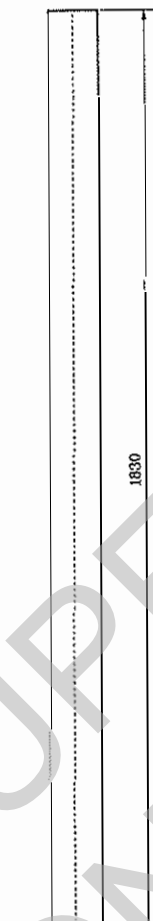


Anthony L. Uremovich 9-1-99
DESIGN STANDARDS ENGINEER DATE
[Signature] 9/1/99
CHIEF HIGHWAY ENG. DATE

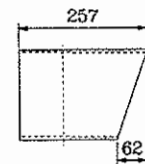
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FRONT VIEW



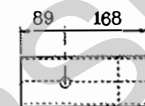
BACK VIEW



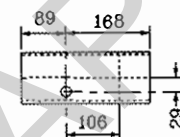
SIDE VIEW



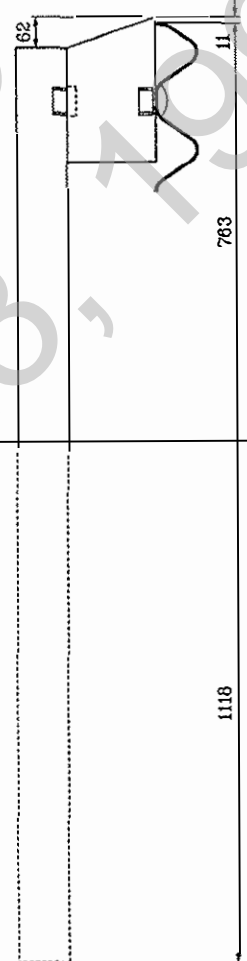
TOP VIEW



FRONT VIEW



BACK VIEW



NOTE:

1. All holes drilled or punched to 21 dia.

POST AND BLOCK AT
W-THREE TRANSITION SECTION /
W-BEAM SPLICE

All dimensions are in mm unless otherwise specified.

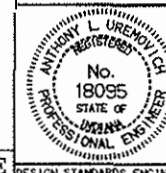
INDIANA DEPARTMENT OF TRANSPORTATION

GUARDRAIL TRANSITION

TYPE TGB

SEPTEMBER 1999

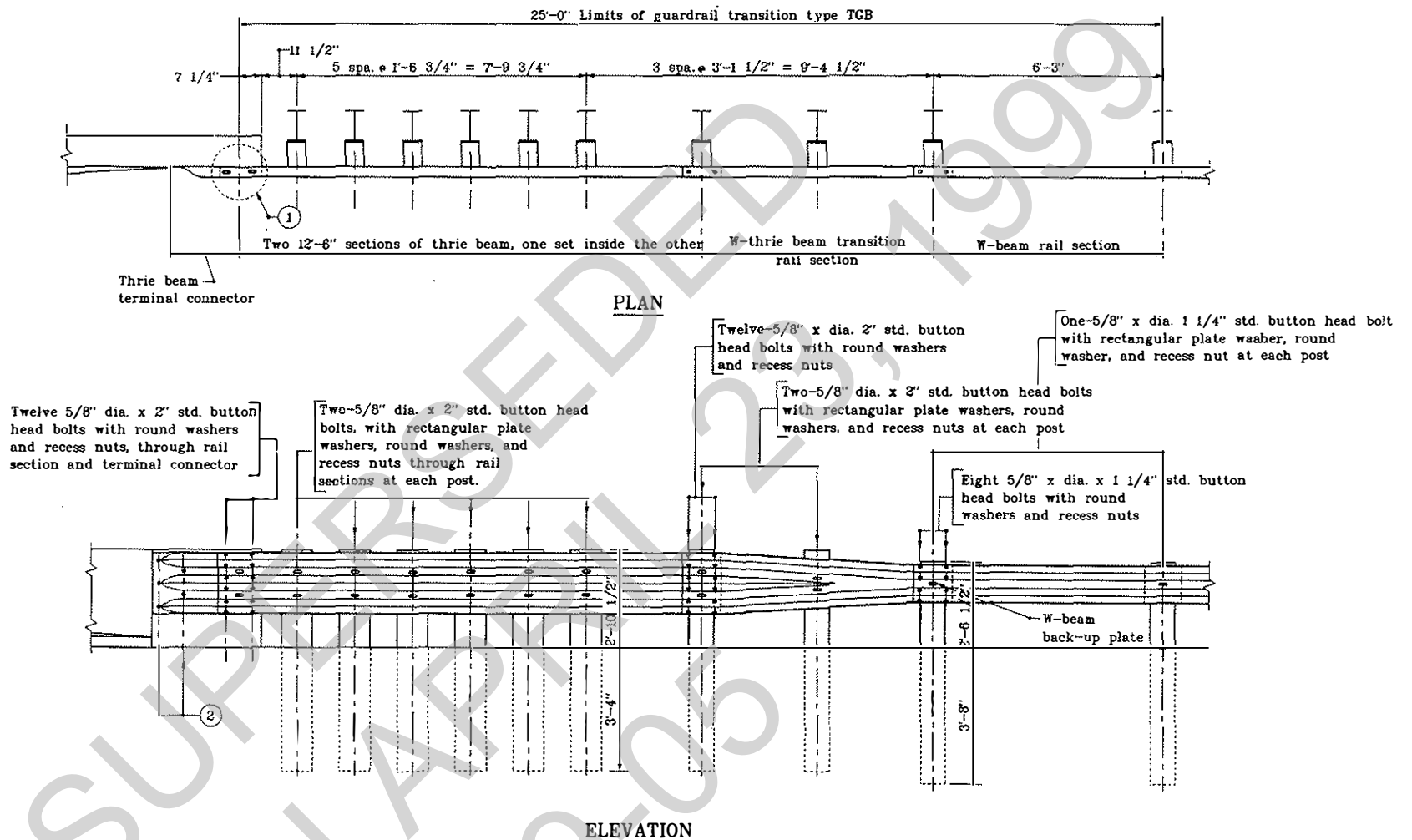
STANDARD DRAWING NO. 601-TTGB-05



Anthony L. Uremovich 9/1/99
DESIGN STANDARDS ENGINEER DATE
Donna M. Jones 9/1/99
CHIEF HIGHWAY ENGINEER DATE

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DESIGN STANDARDS ENGINEER



GENERAL NOTES

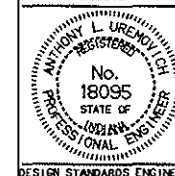
- ① See Standard Drawing T-1A for Lap Detail.
- ② See Standard Drawing BR-1A for connection details.
3. See Standard Drawings E 601-TTGB-03 through -05 for post and block details.

INDIANA DEPARTMENT OF TRANSPORTATION

GUARDRAIL TRANSITION TYPE TGB

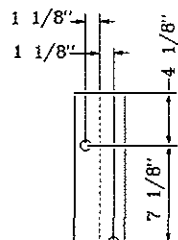
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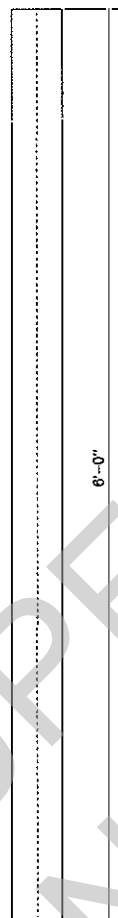


Anthony L. Uremovich 9-1-99
DESIGN STANDARDS ENGINEER DATE

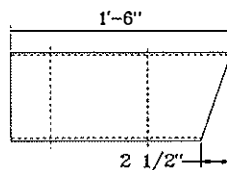
Donald W. Jones 9/1/99
CHIEF HIGHWAY ENGINEER DATE



FRONT VIEW



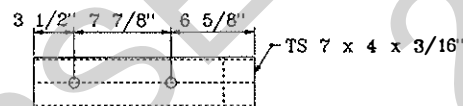
BACK VIEW



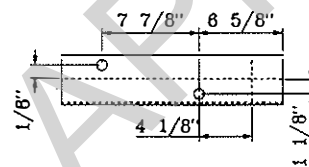
SIDE VIEW



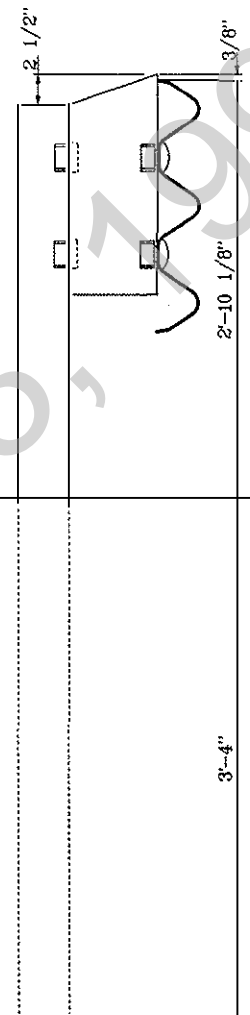
TOP VIEW



FRONT VIEW



BACK VIEW

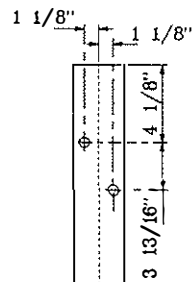


NOTE:

1. All holes drilled or punched to 3/4" dia.

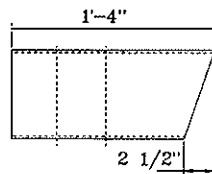
POST AND BLOCK AT
THREE BEAM / W-THREE
TRANSITION SECTION SPLICE

INDIANA DEPARTMENT OF TRANSPORTATION	
GUARDRAIL TRANSITION	
TYPE TGB	
SEPTEMBER 1999	
STANDARD DRAWING NO. E 601-TTGB-03	
	Anthony L. Uremovich 9-1-99 DESIGN STANDARDS ENGINEER DATE [Signature] 9/1/99 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	



FRONT VIEW

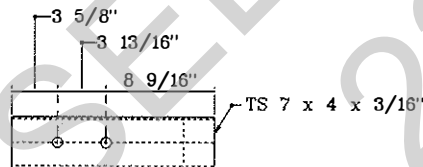
BACK VIEW



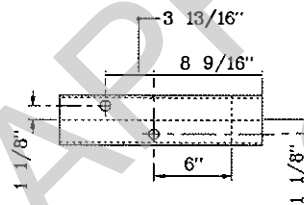
SIDE VIEW



TOP VIEW

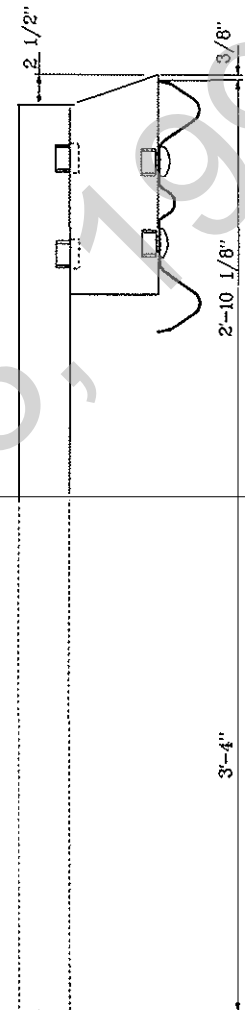


FRONT VIEW



BACK VIEW

W 6 x 9

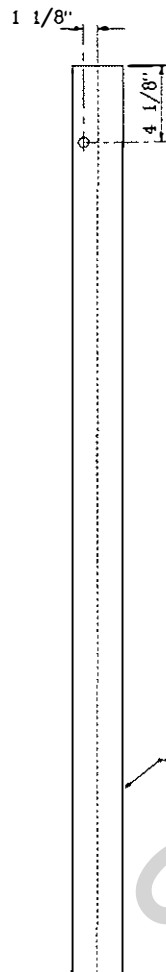


NOTE:

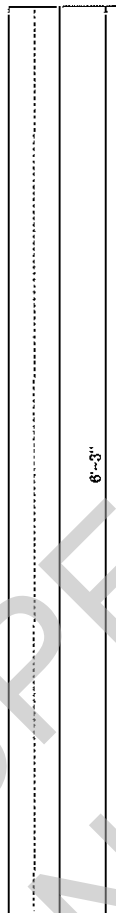
1. All holes drilled or punched to 3/4" dia.

POST AND BLOCK AT
W-THRIE BEAM TRANSITION
SECTION CENTER POST

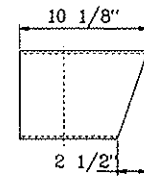
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GUARDRAIL TRANSITION	
TYPE TGB	
SEPTEMBER 1999	
STANDARD DRAWING NO.E 601-TTGB-04	
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DESIGN STANDARDS ENGINEER	



FRONT VIEW



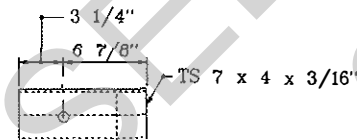
BACK VIEW



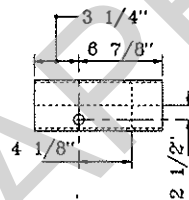
SIDE VIEW



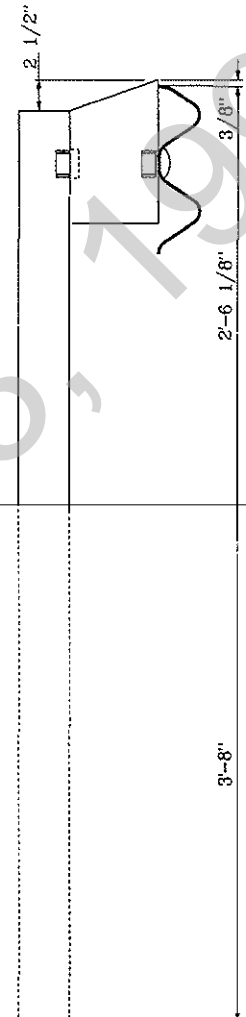
TOP VIEW



FRONT VIEW



BACK VIEW



NOTE:

1. All holes drilled or punched to 3/4" dia.

POST AND BLOCK AT
W-THREE TRANSITION SECTION /
W-BEAM SPLICE

INDIANA DEPARTMENT OF TRANSPORTATION	
GUARDRAIL TRANSITION	
TYPE TGB	
SEPTEMBER 1999	
STANDARD DRAWING NO.E 601-TTGB-05	
	Anthony L. Uremovich 9-1-99 DESIGN STANDARDS ENGINEER DATE Daniel W. Lucas 9/1/99 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	