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 thrie 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.
Two 3810 sections of thrie beam, one set inside the other

Thrie beam terminal connector

Twelve M16 x 50 std. button head bolts with round washers and recess nuts, through rail section and terminal connector.

Two M16 x 50 std. button head bolts with rectangular plate washers, round washers, and recess nuts through rail sections at each post.

One M16 x 30 std. button head bolt with rectangular plate washer, round washer, and recess nut at each post.

Eight M16 x 30 std. button head bolts with round washers and recess nuts

W-beam back-up plate

GENERAL NOTES


All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION
GUARDRAIL TRANSITION
TYPE TGB
SEPTEMBER 1999

STANDARD DRAWING NO. 601-TTGB-01

SUPERSEDED ON APRIL 23, 1999

Source Sheet: T-1
NOTE:

1. All holes drilled or punched to 21 dia.

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

INDIANA DEPARTMENT OF TRANSPORTATION
GUARDRAIL TRANSITION
TYPE TGB
SEPTEMBER 1999

STANDARD DRAWING NO. 601-TTGB-03
NOTE:
1. All holes drilled or punched to 21 dia.

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

As dimensions are in mm unless otherwise specified.
NOTE:
1. All holes drilled or punched to 21 dia.

POST AND BLOCK AT
W-THRIE 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

SUPERSEDED ON APRIL 23, 1999

By 99-05
**GENERAL NOTES**

1. See Standard Drawing T-1A for Lap Detail.
2. See Standard Drawing BR-1A for connection details.
NOTE:

1. All holes drilled or punched to 3/4" dia.
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POST AND BLOCK AT
W-THREE TRANSITION SECTION / W-BEAM SPLICE