

SPECIFICATION REVISIONS (09/09/10 REVISED PROPOSAL SHEET)

REVISION TO THE STANDARD DRAWINGS AND RECURRING PLAN DETAILS

PROPOSAL TO STANDARDS COMMITTEE

PROBLEM(S) ENCOUNTERED: FHWA Memorandum from David A. Nicol, P.E. dated May 17, 2010 provides guidance to all state DOTs on the height of generic guardrail G4 (1S). Recent research on standard 27 inch guardrail shows that it does not meet NCHRP Report 350 Test Level 3(TL-3) criteria. This requires a revision of current policy with regard to new guardrail installation height. The FHWA guidance requires that transportation agencies should ensure the minimum height of newly-installed generic G4 (1S) W-beam guardrail is at least 27 ¾ inches to the top of the rail.

PROPOSED SOLUTION: Revise applicable INDOT Standard Drawings to show the installation height from 27 inches to 27 ¾ inches to the top of the rail. The proposed change will result into ¾ inch reduced embedment length of the guardrail post which is insignificant and will not impact the strength of the post as the INDOT guardrail posts are 7 feet long compared to 6 feet required for NCHRP 350 TL-3. Also INDOT already has Approved guardrail end treatments that can be used for the 27 ¾ inches height.

APPLICABLE STANDARD SPECIFICATIONS: N/A

APPLICABLE STANDARD DRAWINGS:

LIST OF PROPOSED REVISIONS TO STANDARD DRAWINGS.

601-CWGS-02	601-CWGS-04	601-MTGR-01
601-TBGC-01	601-TMTT-01	601-TTGB-01
601-TTGB-03	601-TTGB-04	601-TTGB-05
601-TTGP-01	601-TTGP-02	601-TTGT-01
601-TTMS-01	601-TTVH-01	601-TTVH-02
601-TWGB-03	601-TWGT-01	601-WBGA-01
601-WBGA-02	601-WBGA-06	706-TBRC-01
706-TBRC-02	706-TBRF-01	706-TTBC-01
706-TTBP-01	706-TTBP-03	706-TTBP-05
706-TTBP-07	706-TTBT-01	706-TTTX-01
706-TWBC-01		

LIST OF PROPOSED NEW STANDARD DRAWINGS:

706-TTCA-01