



COMMONWEALTH of VIRGINIA

DEPARTMENT OF TRANSPORTATION
1401 EAST BROAD STREET
RICHMOND, VIRGINIA 23219 2000

Charles A. Kilpatrick, P.E.
Commissioner

August 31, 2017

MEMORANDUM

To: All Users of the Virginia Department of Transportation's Road and Bridge Standards

The Location & Design Division has issued a revision to 2016 edition of the Road and Bridge Standards. The standards are accessible via the 2016 Road and Bridge Standards website shown below:

http://www.virginiadot.org/business/locdes/vdot_road_and_bridge_standards.asp

The new and revised standards are required for projects with the following advertisement dates and all subsequent advertisements: Tier 1 projects December 26, 2017, Tier 2 projects April 10, 2018. These standards may be used prior to the required date on any project. Insertable sheets are not required in the plan assemblies for the revised or new standards.

Summarized below are the changes made within each section.

Section 100:

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| 103.11 | B-1, B-2 ADJUSTED DIMENSIONS TABLE TO INCLUDE 108", 120", 126", AND 144" PRECAST BASE UNITS. |
| 113.19 | EC-15 REVISED NOTES 2 & 3. |

Section 200:

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| 201.07 | MC-3B REMOVED REFERENCES TO SPECIFIC GUARDRAIL TYPES AND ADDED NOTE 6. |
| 201.08 | MC-4 REMOVED REFERENCES TO SPECIFIC GUARDRAIL TYPES, ADDED EXPANDED DETAILS FOR PAVING UNDER DIFFERENT TERMINALS, REVISED ALLOWABLE DEPTHS OF ASPHALT FOR USE IN PAVING UNDER GUARDRAIL AND ADDED NOTE 5. |

Section 1300:

Revised index pages 1300.01, 1300.02, 1300.03, & 1300.04

- 1302.20 MP-2 CHANGE LUMINAIRE CALLOUT FROM “TRUSS TYPE LUMINAIRE ARM” TO “LUMINAIRE ARM”
- 1302.24 MP-3 CHANGE LUMINAIRE CALLOUT FROM “TRUSS TYPE LUMINAIRE ARM” TO “LUMINAIRE ARM”. CHANGED DIMENSION FROM TOP OF POLE TO CENTER OF ARM FROM 12” TO 12” MIN.
- 1302.27 MP-3 CHANGE “CASE X LOADING” CALLOUT TO “LOADING CASE X”
- 1302.50 AB-1 REVISED NOTE 4
- 1302.60 VS-1 REVISED NOTE 6
- 1307.11 PA-4 REMOVED PA-3 DETAIL FROM THE STANDARDS
- 1310.20 LF-1 REVISED NOTE 8
- 1311.10 LP-1, 2 CHANGED “BRACKET ARM LENGTH” TO “LUMINAIRE ARM LENGTH”. SHOW BOTH LP-1 AND LP-2 STRUCTURES ON TRANSFORMER BASES; CLARIFY IN NOTES THAT STRUCTURES SHALL BE ON EITHER BREAKAWAY OR NON-BREAKAWAY TRANSFORMER BASES; REVISIONS TO NOTES REGARDING TRANSFORMER BASE INSTALLATION. DELETED NOTE REGARDING WIRE SUPPORT J-HOOKS FOR HAND HOLES MORE THAN 4 FEET UP THE STRUCTURE.
- 1317.10 JB-R1, R2 CLARIFICATION REGARDING NUMBER OF PLACEMENT OF REQUIRED J-HOOKS; MINOR DRAFTING IMPROVEMENTS; REVISED REQUIREMENTS FOR PLACEMENT OF AGGREGATE UNDERNEATH THE JUNCTION BOX AND COMPACTED EARTH ON SIDES OF JUNCTION BOX; CONDUIT ENTRANCE DEPTH REVISED TO READ 18”-24” INSTEAD OF 18”; DELETION OF NOTES THAT ARE DUPLICATES OF REQUIREMENTS IN THE SPECIFICATIONS.
- 1317.11 JB-R1, R2 MINOR REVISIONS TO NOTES
- 1317.20 JB-S1, S2, S3, S4 ADDITION OF 48” X 48” JB-S4 STANDARD; DELETION OF REQUIREMENT THAT JB’S BE ONE- OR TWO-PIECE IN DESIGN; CLARIFICATION OF AGGREGATE AND COMPACTED SOIL PLACEMENT UNDERNEATH AND AROUND BOX; REVISION TO NOTE REGARDING ACCEPTABLE METHODS OF LABELING BOXES; CLARIFICATION REGARDING NUMBER OF PLACEMENT OF REQUIRED J-HOOKS; CONDUIT ENTRANCE DEPTH REVISED TO READ 18”-24” INSTEAD OF 18”; CORRECTED ERROR IN PREVIOUS STANDARD REGARDING LABELING OF DIMENSIONS “A” AND “B”
- 1317.21 JB-S4 NEW SHEET WITH DETAILS FOR 48” X 48” JB-S4 JUNCTION BOX
- 1320.10 WSP-1 STANDARDS EXPANDED TO 7 SHEETS
- 1320.11 WSP-1 STANDARDS EXPANDED TO 7 SHEETS
- 1320.12 WSP-1 STANDARDS EXPANDED TO 7 SHEETS
- 1320.13 WSP-1 SOME DETAILS MOVED TO SHEET 5

Section 1300:

- 1320.14 WSP-1 SQUARE TUBE POST DESIGN TABLE MOVED TO SHEET 6. SHEET 5 NOW ENCOMPASSES DETAILS FOR SIGN PANEL ATTACHMENTS TO POSTS, INCLUDING NEW ALTERNATE ATTACHMENT DETAILS AND NEW DETAILS FOR MOUNTING OF BACK-TO-BACK SIGNS.
- 1320.15 WSP-1 SQUARE TUBE POST DESIGN TABLE MOVED FROM SHEET 5.
- 1320.16 WSP-1 NEW SHEET WITH SPLICE AND CORNER BOLT DETAILS PREVIOUSLY INCLUDED ON SHEET 6. ORIENTATION OF CORNER BOLTS CHANGED SO THAT ALL CORNER BOLT HEADS ARE ON LEFT SIDE.
- 1321.10 STP-1 SINGLE POST MEDIAN INSTALLATION DETAIL MOVED FROM SHEET 12; ADDED NOTES 9 AND 10.
- 1321.17 STP-1 CORRECTED CALLOUT FOR DRIVE TUBE FOUNDATION MATERIALS TO REQUIRE 3/16", NOT 1", STEEL PLATE.
- 1321.19 STP-1 SOME DETAILS MOVED TO SHEET 12 OF 12
- 1321.20 STP-1 INCREASED ALLOWABLE MAXIMUM WIDTH OF SIGN ON A SINGLE POST FROM 5 FEET TO 6 FEET
- 1321.21 STP-1 DETAILS REGARDING SIGN MOUNTING HEIGHT/PLACEMENT FOR INTERCHANGE OFF-RAMPS MOVED TO NEW STANDARD ISD-1. SIGN BRACING DETAILS MOVED FROM SHEET 10 TO SHEET 12. NEW DETAILS WITH ALTERNATE SIGN PANEL MOUNTING DETAILS, AND NEW DETAILS SHOWING HOW TO ATTACH BACK-TO-BACK SIGN PANELS ON THE SAME POST.
- 1329.10 ISD-1 NEW STANDARD SHOWING SPECIAL SIGN PLACEMENT AND MOUNTING HEIGHT REQUIREMENTS FOR CERTAIN SIGNS ON INTERCHANGE OFF-RAMPS.

Any questions related to Section 1300 should be directed to the Traffic Engineering Division.

If you have any questions or comments regarding the 2016 Road & Bridge Standards, please contact Charles Patterson, P.E., at (804) 786-1805, of the Standards and Special Design Section.

Sincerely,

Signature on file Date: 8/31/17

Susan H. Keen, P.E.
State Location & Design Engineer