

Designer Information for Standard Road Plans

Design Manual
Chapter 1
General Information

Originally Issued: 02-12-08
Revised: 11-12-20

This section provides guidance for applying specific Standard Road Plans to a project. This information is not a part of the construction contract and is not readily available to contractors. If any of this information needs to be conveyed to contractors, the designer should include it in the plan or request a revision to the Standard Road Plan.

Standard Section

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|-------------------------|------------------------|-------------------------|------------------------|
| BA-100s | EC-201 | EW-502 | PV-106 |
| BA-200s | EC-202 | LI-130 | PV-204 |
| BA-300s | EC-204 | LS-600s | PV-418 |
| BA-500 | EC-301 | MI-103 | PV-428 |
| BRs | EC-302 | MI-104 | SI-175 |
| DR-101 | EC-303 | MI-210 | SW-538 |
| DR-111 | EC-601 | PMs | SW-539 |
| DR-305 | EC-602 | PR-120 | SW-541 |
| DR-306 | EW-101 | PR-201 | SW-542 |
| DR-401 | EW-211 | PV-10 | SW-602 |
| DR-402 | EW-302 | PV-11 | TC-212 |
| DR-501 | EW-401 | PV-12 | TC-213 |
| DR-504 | EW-402 | PV-13 | TC-218 |
| DR-622 | EW-403 | PV-20 | TC-451 |
| EC-104 | EW-501 | PV-105 | TC-454 |

Chronology of Changes to Design Manual Section:

001E-006 Designer Information for Standard Road Plans

- 11/12/2020 Revised
BA-200s: Clarified BA-203 can only be used if outside of clear zone for approach traffic. Clarified the MGS_VT_to BA-205_or_BA-225 and MGS_VF_to BA-205_or_BA-225 cells set up the pavement transition from the 12-inch blockouts of the VT and VF to the 8 inch blockouts of the BA-205 and BA-225.
DR-111: Added guidance for backfill associated with an old culvert being replaced with a new culvert with a different alignment.
- 4/23/2020 Revised
PV-12: Added guidance for choosing L for rumble strips. Added information to contact the Roadside Safety Engineer if rumble strips cannot be placed 6 inches from the painted line.
- 11/14/2019 Revised
BA:200s: Added information related to BA-203 and BA-204.
DR-504: New.
MI-103: Revised graphic for last example.
PR-120: Added more information regarding use of the standard.
- 11/20/2018 Revised
BA-200: Added information regarding high tension cable to steel beam guardrail connection.
EC-201: Removed reference to Detail 570-04, which is now part of EC-201.
PMs: Added designer information for when to use ELW6 EDGE LINE RIGHT (White).
PR-120: New. Added designer information to explain when PR-120 is most commonly used.
PV-10: New. Added designer information for which bid items to include when using PV-10.
SW-539: New. Added designer information for new standard.
- 5/17/2018 Revised
BA-100: Removed reference to section that does not yet exist.
EC-201: Added designer info from Details 570-4 and 570-9, which were added into EC-201.
EC-302: New. Designer info from Detail 570-2.
EC-303: New. Designer info from Detail 570-10.
EC-601: New. Designer info from Detail 570-3.
EC-602: New. Designer info from Detail 570-6.
EW-401: Revised to include information regarding use of Standard Note 282-3.
- 11/16/2017 Revised
BA-200: Added guidance for clear area behind rail for BA-211 (Long-span system).
DR-111: Added information pertaining to compacting backfill adjacent to structures.
DR-305: New. Adds guidance for when to use DR-306 or 500-10.
DR-306: Revised to explain DR-306 is the default outlet and added link to Designer Info for Detail 500-10.
DR-401: Added instructions to check location of curb to ensure it does not fall within the BTS or end terminal.
DR-402: Added instructions to check location of curb to ensure it does not fall within the BTS or end terminal.
EC-104: New. Adds instructions for choosing which type of TRM to use.
PV-12: Added guidance for rumble strips at RR crossings.
SW-538: Added instructions to check location of curb to ensure it does not fall within the BTS or end terminal.
SW-541: New. Cautions designers on use of SW-541.
SW-542: New. Cautions designers on use of SW-541 and SW-542.
- 5/9/2017 Revised
BA-100s: New. Provides guidance for using BA-108.
BRs: Added in that designers should contact the Office of Bridges if the length of double reinforced section is longer than the 20 foot minimum shown on BR-201, BR-202, BR-203, and BR-204.
DR-101: Removed guidance that the Office of Contracts will include the SS. The SS has been moved into the Standard Specifications.
DR-111: Removed guidance that the Office of Contracts will include the SS. The SS has been moved into the Standard Specifications.
DR-304: Void. DR-304 has been replaced with Detail 500-10.
DR-306: New. Provided guidance to contact Soils Design Engineer when filling in Tab 104-5C.
DR-401: Added guidance to refer to Section 4C-2 for bridge end drains and Section 7D-1 for reinforced bridge approach section dimensions.
DR-402: Added guidance to refer to Section 4C-2 for bridge end drains and Section 7D-1 for reinforced bridge approach section dimensions.
DR-501: New. Provided guidance for use of this standard.
EC-201: Added guidance to use perimeter and slope sediment control devices in place of silt fence when rolled erosion control products are used in ditches and medians.
EW-101: New. Reference to Section 7D-4 and guidance for the D dimension in this standard.
LI-130: New. Provided guidance related to offset.
MI-104: Added information regarding use of Flood Plain Fence.
PV-106: Added guidance to contact the Pavement Design Engineer for pavement and subbase thickness.

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| 11/16/2016 | <p>Revised</p> <p>Revised BRs to include information for BR-241. Revised EW-402 to include information for bidding silt fence to contain material from pipe or hose excavation. Revised PV-12 to include information for situations where rumble strips cannot be placed 6" from painted edge line.</p> |
| 9/14/2016 | <p>Revised</p> <p>BA-200: Deleted information now contained in Section 8C-2. Added information regarding TL-2 standards. BA-300: Deleted information now contained in 8B-3. BA-500: Deleted information contained in Section 8C-5. BRs: Noted 12 inch approach should be used for new construction, 10 inch should be used only if replacing existing 10 inch approach, and BR-100s should be limited to Secondary roads or replace-in-kind for low volume Primary roads. DR-101: Replace link to 5A5 with link to 5B-2. DR-111: Replace link to 5A-5 with link to 5B-2. DR-304: New. Advice to contact Soils Design Engineer when filling in Tab 104-5C. EC-201: Added information pertaining to calculating length of end span. EC-204: New. Information pertaining to bidding Perimeter and Slope Sediment Control Devices. EC-301: Added information regarding splash basins for pipe culverts. EW-502: Added information regarding use of safety ramps. LS-600: New. Information regarding LS series standards. MI-104: New. Information regarding when to use Type A or Type B crossing.</p> |
| 1/7/2016 | <p>Revised</p> <p>Remove requirement in BA-200 that local agencies are required to use the BAs. Added designer info for EC-201 and EW-403.</p> |
| 7/2/2015 | <p>Revised</p> <p>Revised BA-200 to refer to Section 8C-2 for design information. Added new section for EW-302. Added information to EW-401 regarding use as a runaround. Revised EW-402 to add information regarding multiple culverts and low clearance culverts and added information that a temporary stream diversions should be used even if the stream is not perennial. Added new section for MI-103. Added new section for TC-218.</p> |
| 1/22/2015 | <p>Revised</p> <p>Revised references to renumbered standards (RFs renumbered to DRs and RKs renumbered to BRs). Removed Chris Poole's name from BA-200's. Added information for DR-622, EC-301, PV-106, PV-204, and SW-538. Added information to PMs section concerning markings at turn lanes.</p> |
| 5/15/2014 | <p>Revised</p> <p>Added information for PR-201, PV-418, PV-428, RF-39, RF-40, TC-451 and TC-454. Removed information for RR-25, which has become Detail 560-4. Updated information for PV-20 to reflect the switch to painted islands instead of raised islands. Updated information for PV-105 due to changes in Tab 106-5. Updated information for RF-30A to move some of the language to Section 5A-5.</p> |
| 1/15/2014 | <p>Revised</p> <p>Added guidance to EW-401 to also include and bid erosion control measures when EW-401 is required. Changed RK-10's section to RK's and added information about pavement removal. Added guidance for PV-105. Added guidance to EW-501 to inform designers for granular surfaced entrances the PGL is at the top of subgrade and W is the width of the surface including shoulders, if any. Eliminated links in PV-20 to Project Design Criteria Worksheet and Acceptable and Preferred Values tables. Those have been eliminated and new tables developed. Added guidance for newly created RF-30D. Changed link to 2009 MUTCD inside of SI-175.</p> |
| 8/16/2013 | <p>Revised</p> <p>Revise references in EW-401. Add note advising EW-401 not be modified without contacting OLE. Revise references in PV-20 resulting from changes in tables in 1C-1.</p> |
| 7/18/2013 | <p>Revised</p> <p>Revised RL-13 to EW-211, RL-16 to EW-401, and RL-20 to EW-402. Added information for EW-501 (Rural Entrances), MI-210 (PCC Driveways and Alleys), and RR-25 (HMA Wedge for Superelevation).</p> |
| 12/19/2012 | <p>Revised</p> <p>Revised RF-30A information and added PV-20. Revised BA-200s to eliminate reference to FHWA memo.</p> |
| 9/13/2012 | <p>Revised</p> <p>Added information for RL-13 and RL-20. Added information to BA-200's regarding VF and VT2 lengths on BA-250. Added information indicating designers are to use double reinforced bridge approach paving for Primary Road System Bridges.</p> |

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| 2/10/2012 | Revised EC-202 Floating Silt Curtain - changed the reference to Section 10C-1. |
| 11/30/2011 | Revised Updated link for BA-500 from 8B-9 to 8C-5. |
| 7/29/2011 | Revised Added entries for EC-202 and the PM series. Removed entry for SW-203. Updated entries for PV-12, PV-13, RF-30A, and SI-175. |
| 8/31/2010 | Revised Updated PV-11 description for milled rumble strips when placed outside the PCC roadway pavement. |
| 7/15/2010 | Revised Made modifications to PV-13 and PV-12. |
| 5/28/2010 | Revised Added PV-13 information. |
| 4/15/2010 | Revised Update BA-200, BA-300 |