

| | | | | | |
|-------------------------|-------------|---------|-----------------------------------|---------|-----------|
| STATE | FEDERAL AID | | STATE | | SHEET NO. |
| | ROUTE | PROJECT | ROUTE | PROJECT | |
| VA. | — | | | | |
| NBIS Number: N/A | | | UPC No. | | |
| Federal Oversight Code: | | | FHWA Construction and Scour Code: | | |

DESIGN EXCEPTION(S):

GENERAL NOTES:

The original approved sheet, including original signatures is filed in the VDOT Central Office. Any misuse of electronic files, including scanned signatures, is illegal. Violators will be prosecuted to the full extent of the applicable laws.

Width: ' - " face-to-face of rails.

Span layout: ft. steel rolled beam spans.

Capacity: HL-93 loading.

Drainage area: sq. mi.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2007.

Design: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014; and VDOT Modifications.

These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions included in the contract documents.

This project is to be constructed in accordance with the Virginia Department of Transportation Work Area Protection Manual, June 2011 and latest revisions.

All timber shall be Dense Select Structural Southern Pine and preservative treated in accordance with the Specifications.

All structural steel, including bearings, shall be ASTM A709 Grade 50 and shall be hot dipped galvanized.

Rolled beams may be supplied in accordance with ASTM A992 with supplemental test S5 for Charpy V-Notch impact testing. Test values shall meet the requirements given in ASTM A709 for zone 2.

Mill camber shall be placed up.

Bridge No. of existing bridge is . Plan No. is .

(Insert applicable foundation note)

B. M.:

PLAN



DEVELOPED SECTION ALONG



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PROPOSED BRIDGE ON

SS801.dgn

SS8-1 : 03-10-2015

| | |
|--|--|
| VDOT S&B DIVISION RICHMOND, VA STRUCTURAL ENGINEER | |
| PLANS BY: | |
| COORDINATED: | |
| SUPERVISED: | |
| DESIGNED: | |
| DRAWN: | |
| CHECKED: | |

| REVISIONS | | |
|--------------------------------------|-------------|------|
| No. | Description | Date |
| For Table of Revisions, see Sheet 2. | | |

Recommended for Approval: _____
District Structure and Bridge Engineer Date

Approved: _____
District Maintenance Engineer Date

**SS-8 STEEL BEAM WITH TIMBER DECK SUPERSTRUCTURE STANDARD
TITLE SHEET**

NOTES TO DESIGNER:

Include standards SS8-2, SS8-3A, SS8-4, SS8-5A and SS8-6A in the plans when using this standard on projects utilizing railing with curb. Substitute standard SS8-3B for SS8-3A in the plans when bolted angles are used in lieu of welded plates to connect the diaphragm channels to the beam webs. Include standard SS8-5C where skew is greater than 22° and end posts in obtuse corners would conflict with the abutment, backwall and/or lagging. Substitute standard SS8-6B for SS8-6A where beam flange width would interfere with curb attachment plates.

Include standards SS8-2, SS8-3C, SS8-4 and SS8-5B in the plans when using this standard on projects utilizing railing without curb. Substitute standard SS8-3D for SS8-3C in the plans when bolted angles are used in lieu of welded plates to connect the diaphragm channels to the beam webs. Include standard SS8-5D where skew is greater than 28° and end posts in obtuse corners would conflict with the abutment, backwall and/or lagging.

The following notes apply to State Force work:

Shop plans must include an erection diagram, shipping bill and must show purchase order number.

Requisitions should give complete information as to "Destination" and "Charge to" as well as the following: beam lengths, roadway width, anchorage and skew.

Numerous spans may be listed on one requisition provided all spans are to be shipped to the same destination. If separate prices are desired on any particular span(s), it should be so stated.

To facilitate distribution of steel when two or more bridges are shipped together, each bridge shall be given a mark which must appear on each item shipped in addition to the regular shop plan symbols.

Structural steel order will include all bolts and anchorages indicated.

Residencies shall not procure bridges using any part of these standards in an Administrative Services Division, ASD, contract without review from the District Structure and Bridge office.

ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD:

GENERAL NOTES:

Modify the text to complete the missing fields in the General Notes. Add additional notes applicable to project. See Part 2 of this manual, File Nos. 02.03-1 thru -6 for additional information. Add estimated quantities or provide in tabular format on sheet.

PLAN:

Add plan view.

STANDARD SS8-1: NOTES TO DESIGNER

PART 8
DATE: 10Mar2015
SHEET 2 of 3
FILE NO. SS8-1-2

**SS-8 STEEL BEAM WITH TIMBER DECK SUPERSTRUCTURE STANDARD
TITLE SHEET**

NOTES TO DESIGNER:

Include standards SS8-2, SS8-3A, SS8-4, SS8-5A and SS8-6A in the plans when using this standard on projects utilizing railing with curb. Substitute standard SS8-3B for SS8-3A in the plans when bolted angles are used in lieu of welded plates to connect the diaphragm channels to the beam webs. Include standard SS8-5C where skew is greater than 22° and end posts in obtuse corners would conflict with the abutment, backwall and/or lagging. Substitute standard SS8-6B for SS8-6A where beam flange width would interfere with curb attachment plates.

Include standards SS8-2, SS8-3C, SS8-4 and SS8-5B in the plans when using this standard on projects utilizing railing without curb. Substitute standard SS8-3D for SS8-3C in the plans when bolted angles are used in lieu of welded plates to connect the diaphragm channels to the beam webs. Include standard SS8-5D where skew is greater than 28° and end posts in obtuse corners would conflict with the abutment, backwall and/or lagging.

The following notes apply to State Force work:

Shop plans must include an erection diagram, shipping bill and must show purchase order number.

Requisitions should give complete information as to "Destination" and "Charge to" as well as the following: beam lengths, roadway width, anchorage and skew.

Numerous spans may be listed on one requisition provided all spans are to be shipped to the same destination. If separate prices are desired on any particular span(s), it should be so stated.

To facilitate distribution of steel when two or more bridges are shipped together, each bridge shall be given a mark which must appear on each item shipped in addition to the regular shop plan symbols.

Structural steel order will include all bolts and anchorages indicated.

Residencies shall not procure bridges using any part of these standards in an Administrative Services Division, ASD, contract without review from the District Structure and Bridge office.

ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD:

GENERAL NOTES:

Modify the text to complete the missing fields in the General Notes. Add additional notes applicable to project. See Part 2 of this manual, File Nos. 02.03-1 thru -6 for additional information. Add estimated quantities or provide in tabular format on sheet.

PLAN:

Add plan view.

STANDARD SS8-1: NOTES TO DESIGNER

PART 8
DATE: 10Mar2015
SHEET 2 of 3
FILE NO. SS8-1-2

**SS-8 STEEL BEAM WITH TIMBER DECK SUPERSTRUCTURE STANDARD
TITLE SHEET**

ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD (cont'd):

DEVELOPED SECTION ALONG:

Add view. Complete title.

TITLE BLOCK:

The signature lines shown are for Tier 1 projects to be constructed by State Forces with State Maintenance Funds.

For other Tier 1 projects using these standards, drop the sheet status and delete the signature lines. Add the cell PDD4 from the bdetails1.cel library using the right bottom corner of the Title sheet for the cell snap point per File No. 02.04-11 of Part 2 of this manual.

STANDARD SS8-1: NOTES TO DESIGNER

PART 8
DATE: 10Mar2015
SHEET 3 of 3
FILE NO. SS8-1-3