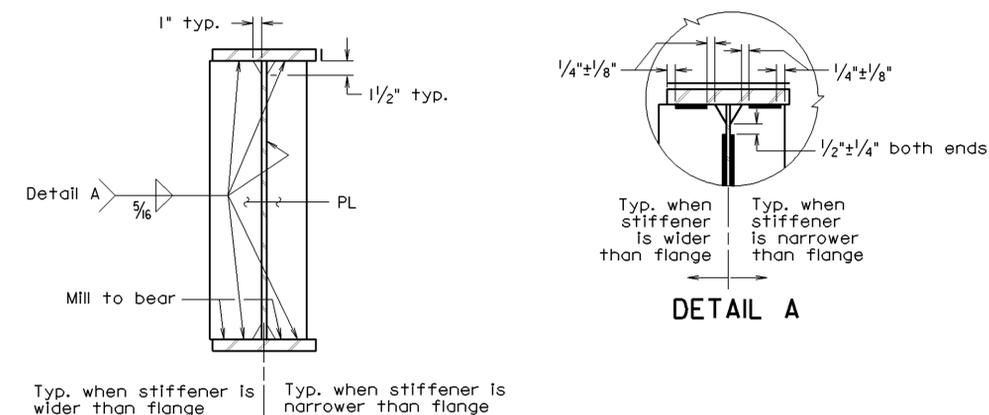


GIRDER ELEVATION

Notes:

The Contractor has the option of eliminating the transverse intermediate stiffeners by increasing the web thickness to . . .  
For spacing of transverse intermediate stiffeners, see framing plan, sheet . . .

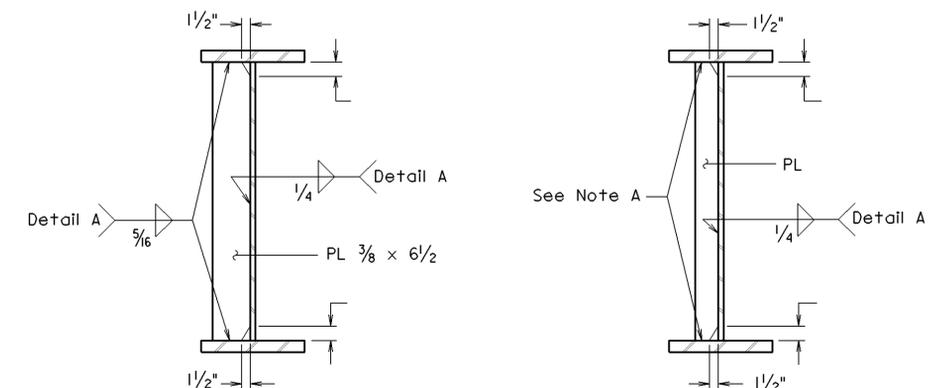
The bottom flange and web are areas of tensile stress for Charpy V-Notch impact requirements.



BEARING STIFFENERS

Span	Girder	Web PL	PL 1	PL 2	PL 3	PL 4	PL 5	PL 6	PL 7	PL 8

Span	Girder	AB	AT	BB	BT	CB	CT	DB	DT	G	H	I	J	K	L	M	Radius



CROSS FRAME CONNECTOR PLATE

TRANSVERSE INTERMEDIATE STIFFENER

Note A: 5/16 inch fillet weld (both sides) to compression flange(s). Tight fit to tension flange(s).

SGDET IAC 05-16-01

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION					
STRUCTURE AND BRIDGE DIVISION					
GIRDER DETAILS					
No.	Description	Date	Designed: .....	Date	Plan No.
			Drawn: .....		Sheet No.
			Checked: .....		
Revisions					

**STEEL PLATE GIRDER  
SIMPLE SPAN – TRAPEZOIDAL OR CURVED  
GIRDER DETAILS (SHEET 1 OF 2)**

**NOTES TO DESIGNER:**

Standard is to be used for trapezoidal or curved, simple span(s), steel plate girders. The standard includes girder details; tables for plate sizes, dimensions, and tension flange limits; and details for stiffeners, connector plates, etc. The standard is used along with standard SGDET1BC which includes camber note and table for top of slab elevations along centerline of girder.

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

NOTES:

Complete first note (alternate web thickness). Add sheet number(s) to note(s). If permissible field splice is used (bolted splice – generally for spans in excess of 135 feet), replace last note with the following notes that are located in the cell library (see file no. SGCELLS1):

The bottom flange, web and all splice plates are areas of tensile stress for Charpy V-notch impact requirements.

For bolted splice details, see sheet.

GIRDER ELEVATION:

If bolted splice is used, adjust shear connector spacing as needed.

PLATE DIMENSION TABLE:

Fill in table.

GIRDER DIMENSION TABLE:

Fill in table.

BEARING STIFFENERS:

Add plate size(s) and location(s).

CROSS FRAME CONNECTOR PLATE:

Add dimensions. See Manual of the Structure and Bridge Division, Volume V – Part 2, file no. 07.21-3.

TRANSVERSE INTERMEDIATE STIFFENER:

Add plate size and dimensions. See Manual of the Structure and Bridge Division, Volume V – Part 2, file no. 07.21-3.

**STEEL PLATE GIRDER  
SIMPLE SPAN – TRAPEZOIDAL OR CURVED  
GIRDER DETAILS (SHEET 1 OF 2)**

**ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD (Continued):**

FLANGE CLIP DETAIL:

Add flange clip detail from cell library (see file no. SGCELLS1A) for skewed bridges. Add angle, dimension(s) and location(s). See Manual of the Structure and Bridge Division, Volume V – Part 2, file no. 07.24.



**STEEL PLATE GIRDER  
SIMPLE SPAN – TRAPEZOIDAL OR CURVED  
GIRDER DETAILS (SHEET 2 OF 2)**

**NOTES TO DESIGNER:**

Standard is to be used for trapezoidal or curved, simple span(s), steel plate girders. The standard includes dead load deflection diagram, camber note, and table for top of slab elevations along centerline girder. The standard is used along with standard SGDET1AC which includes girder details; tables for plate sizes, dimensions and tension flange limits; and details for stiffeners, connector plates, etc.

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

NOTES:

Deflected shape is shown for hump vertical curve and may be replaced with other shape(s) (straight gradient, sag vertical curve) in the cell library. See file no. SGCELLS1 for modification with other cells.

Add dimension for minimum slab thickness in dead load deflection diagram. Fill in table.

TOP OF SLAB ELEVATIONS ALONG CENTERLINE GIRDER:

Fill in table.