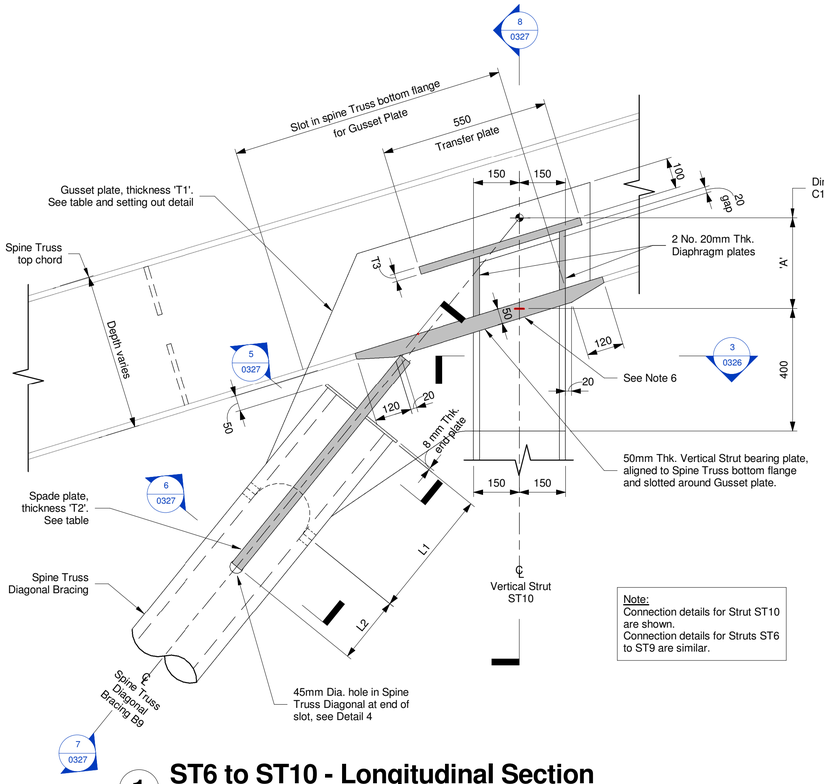
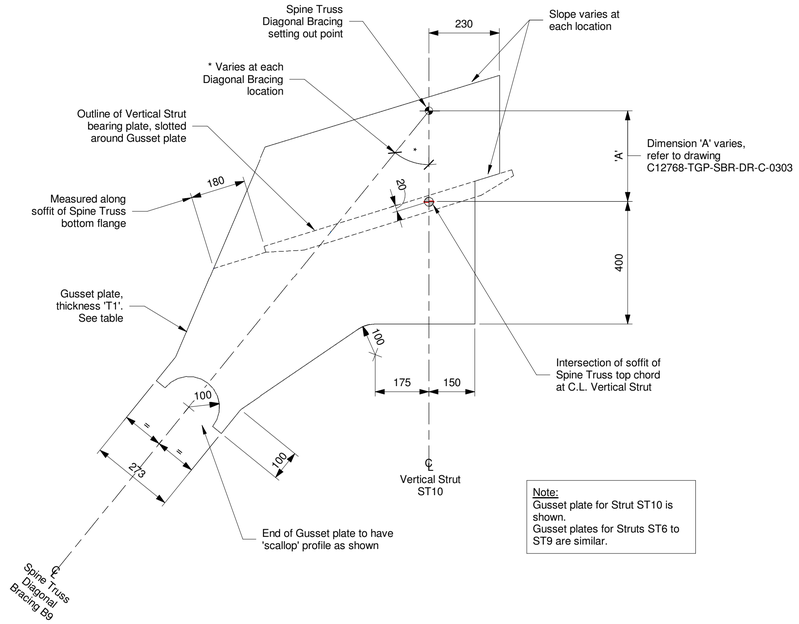


Note:
For setting out of Spine Truss Diagonal bracing refer to drawing C12768-TGP-SBR-GB-DR-C-0303

1 ST6 to ST10 - Longitudinal Section
1 : 10



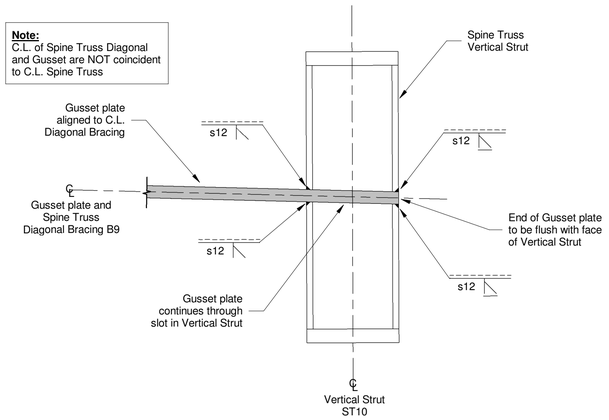
2 ST6 to ST10 - Gusset plate setting out
1 : 10

Table 1: ST6 to ST10 Connection plate table

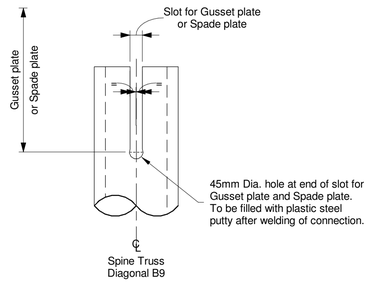
Connection Plate		Vertical Strut				
		ST6	ST7	ST8	ST9	ST10
Gusset Plate	T1	35mm	35mm	40mm	40mm	40mm
Spade Plate	T2	35mm	35mm	40mm	40mm	40mm
Transfer Plate	T3	20mm	20mm	25mm	25mm	25mm

Table 2: ST6 to ST10 Connection dimensions

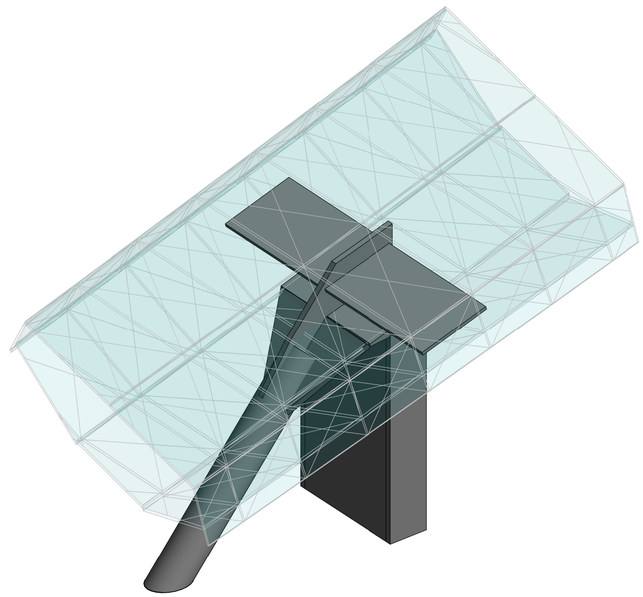
Connection Plate		Vertical Strut				
		ST6	ST7	ST8	ST9	ST10
Gusset Plate	L1	420mm	420mm	420mm	420mm	420mm
Spade Plate	L2	220mm	220mm	220mm	220mm	220mm



3 ST6 to ST10 - Gusset plate at Vertical strut
1 : 10



4 Spine Truss Diagonal - Slot Detail
1 : 10



0 ST10 Isometric View

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VFK Project Ref: C12768

NOTES

1. All dimensions are in mm unless noted otherwise.
2. All levels are in Metres a.o.d. unless noted otherwise.
3. For steelwork notes refer to drawing: C12768-TGP-SBR-GB-DR-C-0300
4. This drawing to be read in conjunction with:
   C12768-TGP-SBR-GB-DR-C-0303 Gateway Bridge - Spine Truss Member Schedule
   C12768-TGP-SBR-GB-DR-C-0304 Gateway Bridge -Top Chord Geometry
   C12768-TGP-SBR-GB-DR-C-0311 Gateway Bridge -Top Chord Details
5. Unless noted otherwise, all welds shown on this drawing to be continuous 10mm (leg) fillet welds on both sides of all joints in accordance with the specification. Unless noted otherwise, all welds shall meet the requirements of tables 8.1 to 8.5 of BS EN 1993-1-9 inclusive for the minimum detail category, as amended by the UK National Annex NA BS EN 1993-1-9.
6. Steel to be ultrasonically tested for laminations in accordance with BS EN 10160 at all locations where through thickness tensile stresses are applied. Testing to be carried out prior to commencement of welding and after completion. The steelwork fabricator shall determine in each case whether the use of material with guaranteed through thickness properties (superior Z35-quality class to BS EN 10164) is appropriate.
7. Diaphragm and stiffener plates to be fitted to Vertical Strut Bearing plate.
8. Full penetration butt welds. Thicker plate to be tapered at maximum slope of 1 in 4 down to thinner plate. Weld preparation form and details to be proposed by steel fabricator and submitted to designer for approval.

C01	For Construction	PSW	NLL/RS	03/01/19
P03	For Stage Approval	JF	RS/RS	05/10/18
P02	Connection details updated	PSW	NLL/RS	21/09/18
P01	FOR CAT III CHECK	PSW	RS/RS	14/09/18
Iss	Description	By	Chkd/Appd	Date

Issued For Construction — A

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Luton Borough Council
London Luton Airport Operations Limited
Airport Way, Luton LU2 9LY

Sheet Size:	Scale:	Designed By:	Drawn By:
A1	As indicated	RS	PSW

Project Name: Luton DART Project

Contract Name: C12768 - Luton Direct Air to Rail Transit

Drawing Title: Gateway Bridge - Spine Truss Steelwork Top Chord Nodes ST6 to ST10 - Sheet 1

Drawing No.: C12768-TGP-SBR-GB-DR-C - 0326

Rev: C01

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LOCATION : C:\RevitProj17\C12768-TGP-SBR-GB-M3-C-0001_psw.rvt