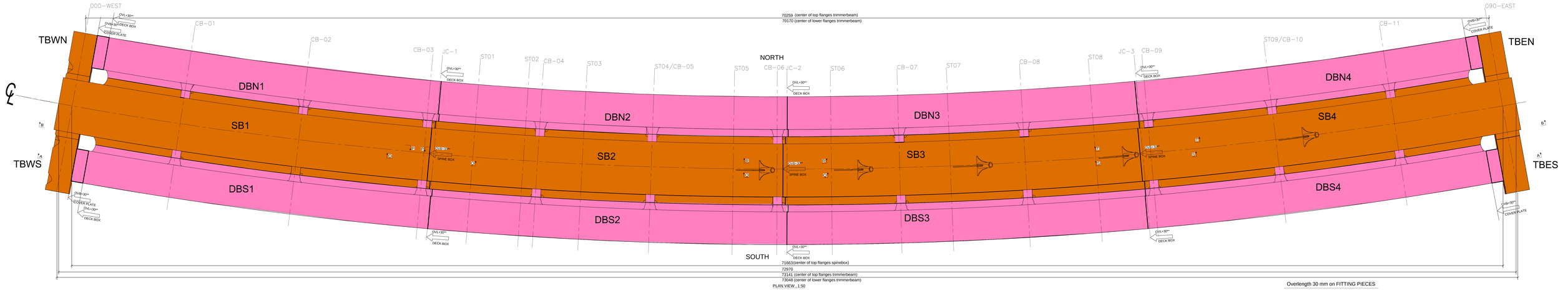
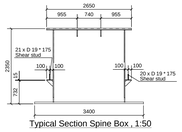
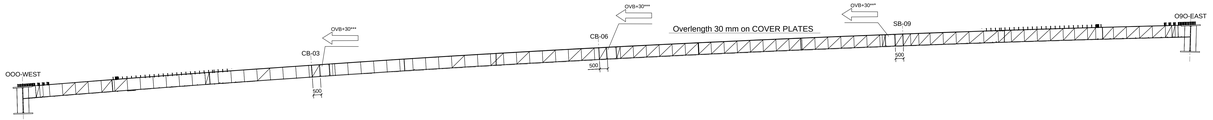
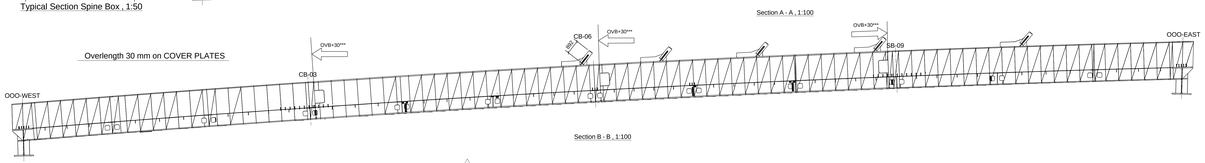




Typical Section Spine Box , 1:50

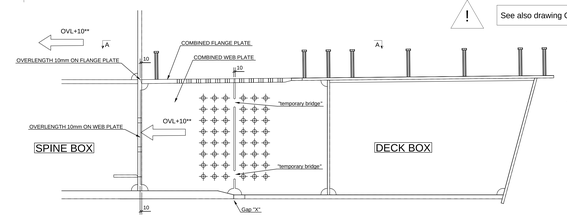


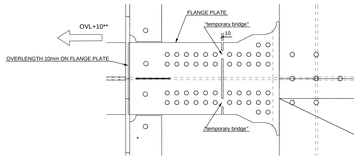
Section A - A , 1:100



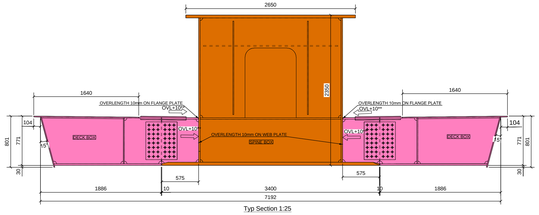
Section B - B , 1:100

See also drawing C12768-VTB-SBR-GB-DR-W-3007



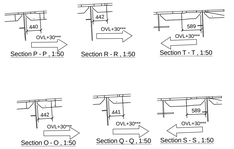


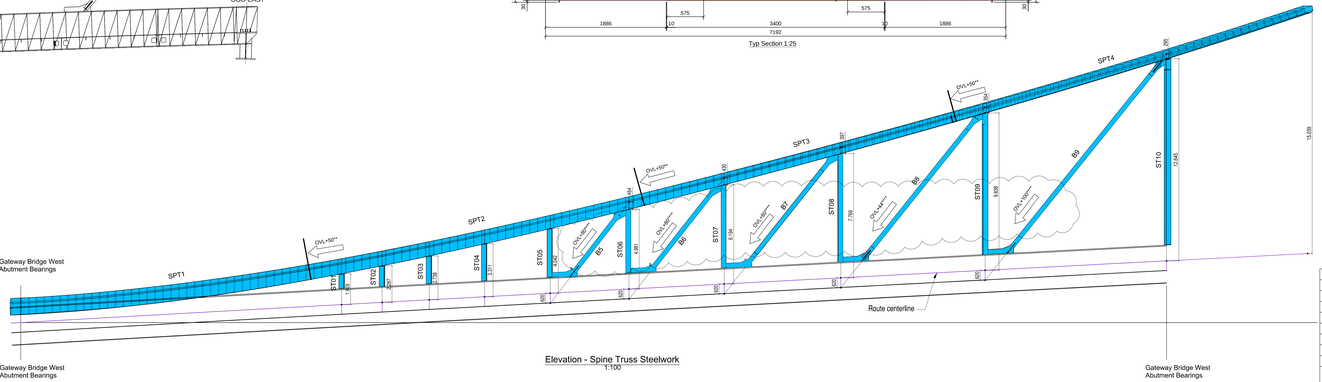
Section A - A , 1:10



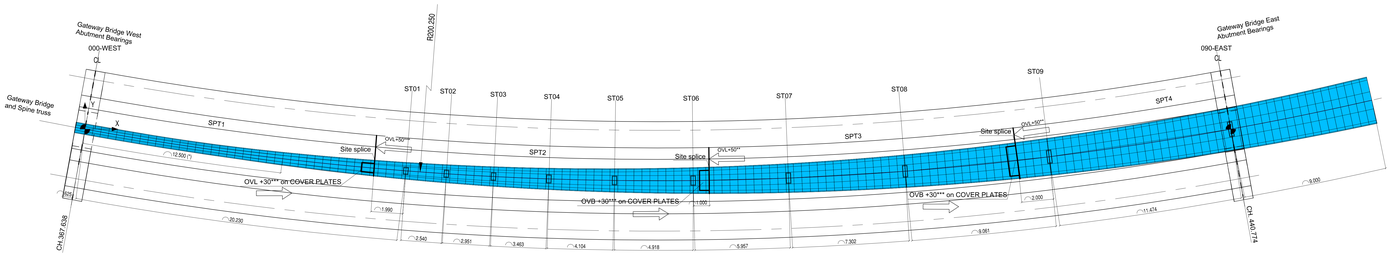
Typ Section 1:25

Overlength 30 mm on FITTING PIECES





Elevation - Spine Truss Steelwork
1:100



Plan - Spine Truss Steelwork
1:100

General notes:

(unless indicated otherwise)

1 - Steel quality to be weathering grade S355

All bridge spine box en deck box (grade S355 according to BS EN 10025):
- S355J0W+N : thickness = 35 mm
- S355J2W+N : thickness > 35 = 50 mm
- S355K2W+N : thickness > 50 = 60 mm
- Through thickness Z - quality:
Z25 for gusset and spade plates of Spine Truss Diagonal
Z35 for Spine Box top flange, web and bearing plates.
Z35 for Trimmer beam top flange and web

All Top Chord and vertical struts, Lifting lug or temporary fixing cleats that remain permanent (grade S355 according to BS EN 10025-2):
- S355J0+N : thickness = 35 mm
- S355J2+N : thickness > 35 = 50 mm
- S355K2+N : thickness > 50 = 60 mm

All Diagonal bracings to be grade S355J2H to BS EN 10210

2 - Shear studs :

- Type SD1 S235J2+C450, Ø19mm x 175mm according to BS EN 13918 u.n.o.

3 - Welds

- All welds are to be continuous and form a continuous seal
- All welds are indicated. Seams not to be welded are stated explicitly
- When no specific detail is to be used, welds are indicated by throat size (a =...)
- Grinding direction: see grinding drawing C12768-VTB-SBR-GB-DR-W-3003
- See welding catalogues C12768-VTB-SBR-GB-DR-W-3004/3005
- Welded splices to be ground flush to provide uniform finish surface.
- Weld surface may need roughening to provide adequate key to protective coating to adhere properly.

4 - Bolted assemblies :

10.9 Bolts according to BS EN 14399-10 and BS EN 1090 (TCB)
weathering grade s10t in accordance to following specification:
HRC Bolt according to BS EN 14399-10
HRD Nut according to BS EN 14399-10
Washer according to BS EN 14399-6
Bolts to be tightened with HRC method

5 - Execution class :

EXC 3 for entire steelconstruction of Gateway Bridge , with additional requirements as specified by Series 1800

6 - Annotations :

- Measures are in mm

7 - C.O.G.:

- Center of gravity
- Weight is indicated for each assembled girder

8 - Corrosion protection :

- See drawing C12768-VTB-SBR-GB-DR-W-3002

9 - Overlength :

- See drawing C12768-VTB-SBR-GB-DR-W-3001

LEGENDE:

- HAL8
- HAL3
- HAL2

NOTA:

* Overlengte, afbranden in werkhuis na opmeting bouwdeel+aangrenzend bouwdeel
** Overlengte, afbranden in werkhuis na voormontage
*** Overlengte, afbranden op de werf op basis van opmetingen van beide aangrenzende bouwdelen en na opmeting werf
**** Overlengte, afbranden in werkhuis na opmeting van aangrenzend bouwdeel op de werf

Iss	Description	By	Chkd/Appd	Date
P02	Changed direction of overlength diagonals	BDR	SMA	02.04.2019
P01	First issue	OPR	SMA	19.02.2019

FOR CONSTRUCTION APPROVAL — S4

London Luton Airport Ltd
A Luton Council company

London Luton Airport Limited
Luton Borough Council

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

Sheet Size:	Scale:	Drawn By:	Approved By:
A0	As indicated	OPR	SMA

Project Name: Luton DART Project

Contract Name: C12768 - Luton Direct Air to Rail Transit

Drawing Title: GENERAL DRAWING
Overlengte en halverdelingsplan

Drawing No.: C12768 -VTB -SBR-GB-DR-W-3001

Rev: P02

Data Stream: