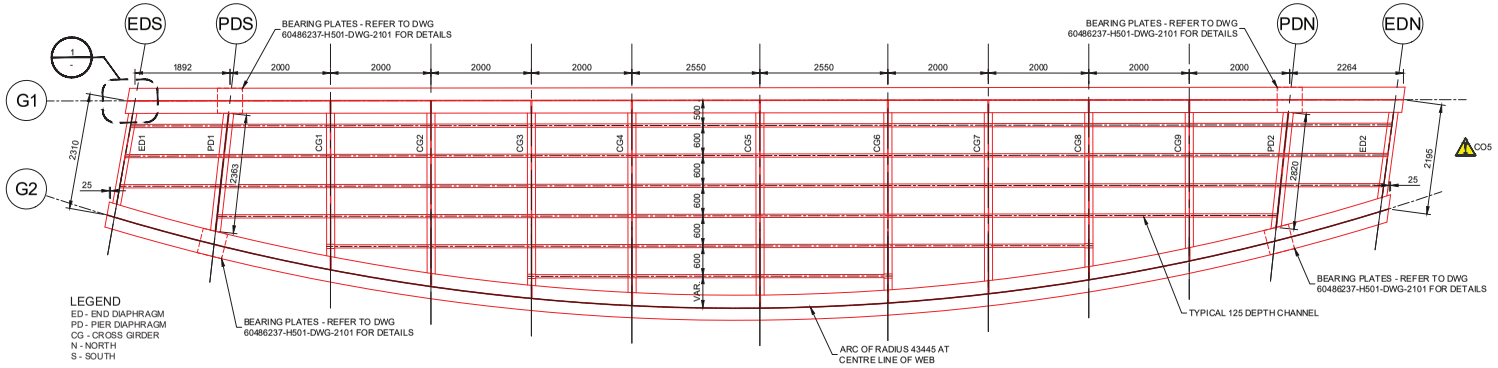
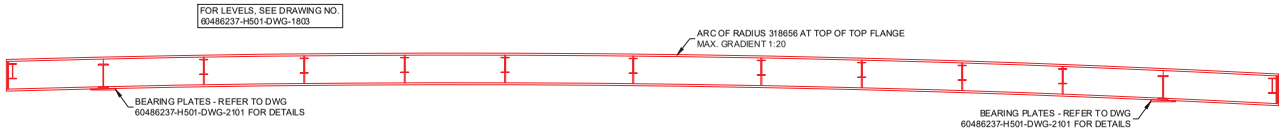
Rev: A

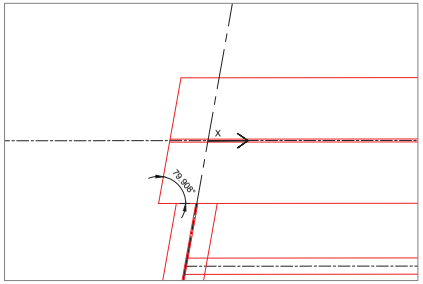
Drawing Number: 60486237-H501-DWG-1801



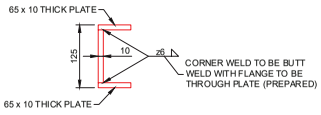
PLAN
SCALE 1:50



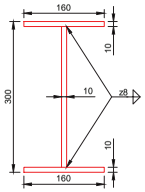
DEVELOPED ELEVATION ON GIRDER G2
SCALE 1:50



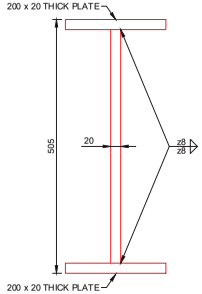
1 DETAIL OF LOCATION ORIGIN
SCALE 1:10



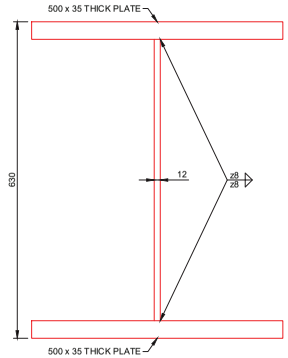
TYPICAL SECTION THROUGH LONGITUDINAL CHANNEL
SCALE 1:5



TYPICAL SECTION THROUGH CROSS GIRDERS AND END DIAPHRAGMS
SCALE 1:5



TYPICAL SECTION THROUGH PIER DIAPHRAGMS
SCALE 1:5



TYPICAL SECTION THROUGH MAIN GIRDER
SCALE 1:5

TABLE 1: PRECAMBER ON GIRDER 1 (INTERNAL)

		ED1	PD1	CG1	CG2	CG3	CG4	CG5	CG6	CG7	CG8	CG9	PD2	ED2
PRECAMBER	SW	-2.3	0.4	4	6.9	9.3	10.9	11.5	10.7	9	6.6	3.6	0.5	-2.6
	SDL	-0.5	0.1	0.8	1.3	1.8	2.1	2.2	2	1.7	1.2	0.7	0.1	-0.5
	TOTAL CAMBER	-2.8	0.5	4.8	8.2	11.1	13	13.7	12.7	10.7	7.8	4.3	0.6	-3.1
	LOCATION	0.000	1.892	3.892	5.892	7.892	9.892	12.433	14.988	16.380	18.388	20.388	22.988	25.252

TABLE 2: PRECAMBER ON GIRDER 2 (EXTERNAL)

		ED1	PD1	CG1	CG2	CG3	CG4	CG5	CG6	CG7	CG8	CG9	PD2	ED2
PRECAMBER	SW	-6.4	0.7	10.6	17.6	23.1	26.5	27.7	25.2	20.7	14.5	7	0.7	-6.5
	SDL	-3.7	0.4	5.9	9.9	13	15	15.6	14.2	11.7	8.1	3.9	0.4	-3.8
	TOTAL CAMBER	-10.1	1.1	16.5	27.5	36.1	41.5	43.3	39.4	32.4	22.6	10.9	1.1	-10.3
	LOCATION	-0.412	1.573	3.891	5.891	7.891	9.891	12.440	14.988	16.988	18.988	20.988	22.689	24.790

NOTES

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE
2. LEVELS AND SETTING OUT POINT COORDINATES ARE IN METRES TO ORDNANCE SURVEY NATIONAL DATUM AND OSGB36
3. ALL STRUCTURAL STEEL TO BE GRADE S355J2W WEATHERING STEEL TO BS EN 10025-5:2019
4. THE PRECAMBER SPECIFIED IS OBTAINED FROM THE NOMINAL DISPLACEMENTS OF EACH GIRDER UNDER THE ACTION OF PERMANENT ACTIONS. NO ALLOWANCE HAS BEEN MADE FOR FABRICATION EFFECTS. DUE ALLOWANCE MUST BE MADE FOR THESE EFFECTS BY THE STEELWORK FABRICATOR
5. ALL STEELWORK DIMENSIONS APPLY TO A DATUM TEMPERATURE OF 15°C
6. THE PRECAMBER HAS BEEN DERIVED BASED ON THE CONSTRUCTION SEQUENCE SHOWN ON DRAWING 60486237-H501-DWG-0006. FOR A DIFFERENT CONSTRUCTION SEQUENCE, THE PRECAMBER SHALL BE AGREED WITH THE DESIGN ENGINEER
7. WELD SYMBOLS ARE IN ACCORDANCE WITH BS EN ISO 2553:2019
8. ALL WELDS SHALL BE IN ACCORDANCE WITH BS EN 1011-1:2009 AND BS 1011-2:2001
9. LOCATIONS OF LIFTING EYES ARE THE RESPONSIBILITY OF THE CONTRACTORS
10. ALL TEMPORARY COPE HOLES SHALL BE REINSTATED
11. DRAWINGS ARE CERTIFIED FOR THE PERMANENT POSITION ONLY. IT IS THE FABRICATOR'S RESPONSIBILITY TO VERIFY STRUCTURAL COMPONENTS DURING STAGES OF ERECTION
12. TEMPORARY ATTACHMENTS ARE ALLOWED FOR ALIGNING JOINTS BUT ARE TO BE GROUND FLUSH TO EN 10163:2004 CLASS A
13. THE CONTRACTOR SHALL MAINTAIN RECORD OF AND TEST CERTIFICATES FOR EACH PLATED SECTION, WELDING CONSUMABLE. BOLT, NUT AND WASHER.
14. THE TOLERANCE ON THICKNESS OF PLATES AND FLATS SHALL BE CLASS C IN ACCORDANCE WITH BS EN 10029:2010.
15. MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH BS EN 1993+UK NA, BS EN 10025, BS EN 10210, BS EN 10219, BS EN 1090 AND GOOD WORKING PRACTICE. ALL STRUCTURAL STEELWORK SHALL BE EXECUTION CLASS EXC3 IN ACCORDANCE WITH BS EN 1090-2:2018.

LEGEND

- EXISTING STRUCTURE
- PROPOSED STRUCTURE

Safety, Health and Environmental Information

Notes below are additional to hazards/risks normally associated with this type of work. Numbers correspond to Risk Register references. Pre-Construction Information: 60486237-H501-PCI-001-A

Construction
CO5 Main girders to be lifted in braced pairs.

Operations & Maintenance
No risk identified

Dismantling / Demolition (Future)
CO5 Main girders to be lifted in braced pairs.

Refer to general notes and the Principal Contractor for more information about the risks associated with this work.

Indicates residual risk warning, based on the use of experienced and competent contractors carrying out works using approved safe methods of working

NOT FOR CONSTRUCTION

Rev	Revision details	Chkd	Appd	Date
A	ISSUED FOR DETAILED DESIGN	DC	JSG	22/11/19

Drawn:	DT	Preliminary	
Design:	AC	For comment	✓
Chkd:	DC	For tender	
Appd:	JSG	For construction	
Date:	NOV 2019	As constructed	
		Other	

LONDON HIGHWAYS ALLIANCE

CONWAY AECOM

Project Name
BOTWELL BRIDGE WIDENING

Drawing Title
STEELWORK DETAILS SHEET 1

Original Drawing Size : A1 | Dimensions : mm
Scale : AS SHOWN | Copyright © ConwayAecom

Drawing No: 60486237-H501-DWG-1801 | Rev: A

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