Supplementary Information

The following information is associated with Network Rail Standard:
NR CIV/SD/1841 Rev B

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CAD Drawing

- CIV/SD/1841

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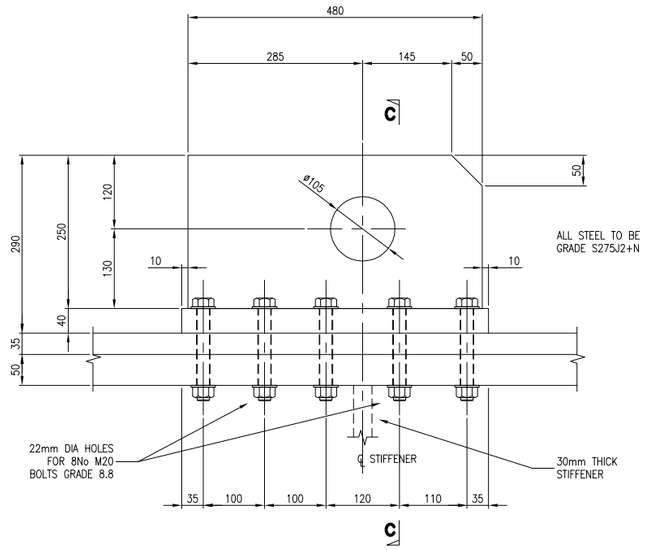
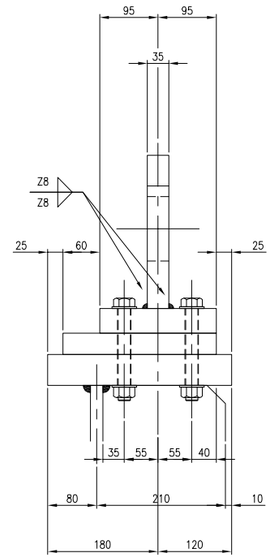


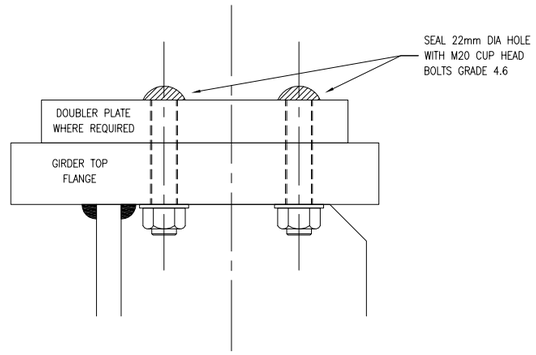
LIFTING BRACKET TYPE 3 – S.W.L. 25 T

SCALE 1:5



SECTION C–C – S.W.L. 25 T

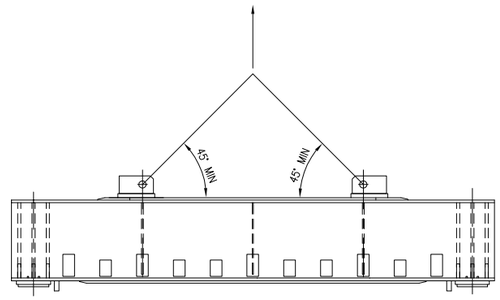
SCALE 1:5



SEALING OF LIFTING BRACKET HOLES AFTER USE

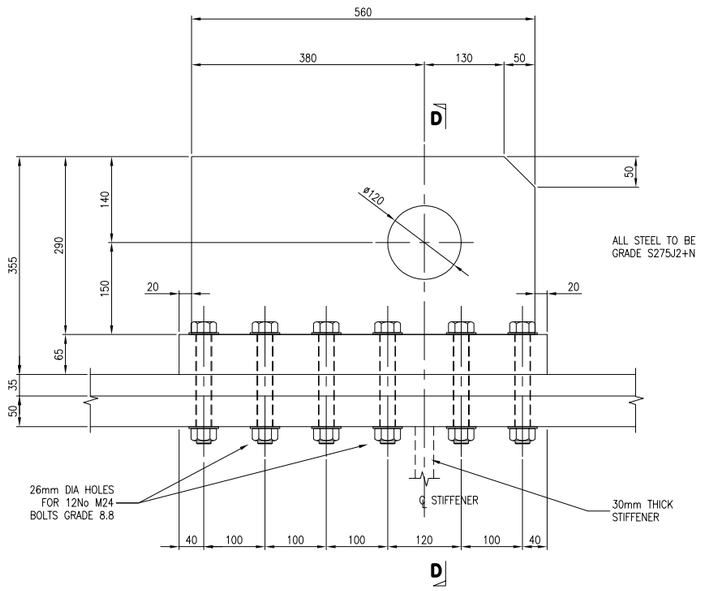
DETAIL 1 – S.W.L. 25 T

SCALE 1:2.5



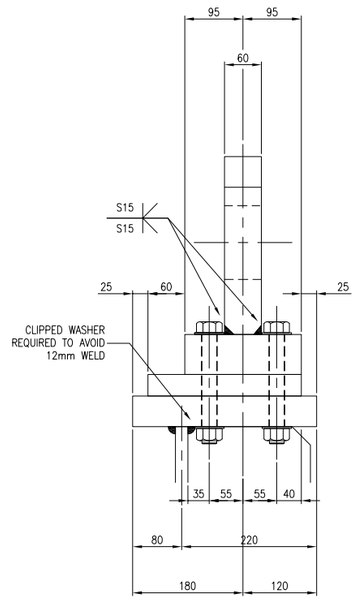
LIFTING BRACKETS TYPES 3 AND 4

SCALE 1:50



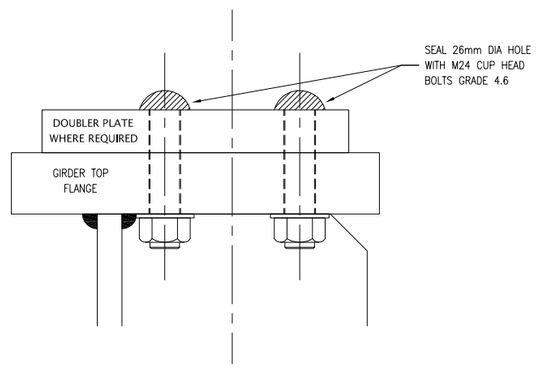
LIFTING BRACKET TYPE 4 – S.W.L. 50 T

SCALE 1:5



SECTION D–D – S.W.L. 50 T

SCALE 1:5



SEALING OF LIFTING BRACKET HOLES AFTER USE

DETAIL 1 – S.W.L. 50 T

SCALE 1:2.5

DRAWING No. NR/CIV/SD/1841

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING No. NR/CIV/SD/1801.
2. FOR MAIN GIRDER DETAILS, REFER TO RELEVANT MAIN GIRDER DETAIL DRAWINGS.
3. ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
4. LIFTING BRACKETS TO BE LOCATED OVER 30mm THICK INTERMEDIATE STIFFENERS OR LIFTING STIFFENER.
5. ALL PLATES TO BE STEEL GRADE S275J2+N TO B.S. EN10025 PART 2.
6. AFTER USE THE HOLES ARE TO BE SEALED USING CUP HEAD BOLTS AS SHOWN IN DETAIL 1.
7. LIFTING BRACKETS HAVE BEEN DESIGNED FOR LIFTING THROUGH FROM VERTICAL TO THE ANGLE SHOWN ONLY. THEY MUST NOT BE USED FOR ANY OTHER LIFTING OPERATIONS.
8. FOR LIFTING BRACKETS FOR VERTICAL LIFT REFER TO DRAWING No. NR/CIV/SD/1840.
9. IT MUST BE ENSURED THE LIFTING SHACKLES TO BE USED WILL FIT THE LIFTING BRACKETS.
10. THE INSIDE OF THE LIFTING HOLES TO BE SMOOTH AND FREE OF SHARP EDGES AND NICKS.
11. ALL BOLTS TO BE CHECKED AS SPANNER TIGHT BEFORE LIFTING.
12. BASE PLATE TO RECEIVE 100% UT AFTER WELDING TO ENSURE NO LAMINAR DEFECTS.
13. REFER TO STANDARD UNDERBRIDGE DRAWINGS FOR PROTECTIVE TREATMENT REQUIREMENTS TO MAIN GIRDER FOLLOWING REMOVAL OF LIFTING BRACKETS.

Rev	Date	Description of revision	Design'd	C'kd
B	APR 10	EUROCODE ISSUE	MK	AGW
A	APR 10	FIRST ISSUE	MK	AGW
P2	29.07.09	DRAFT FORM B ISSUE	MK	AGW
P1	27.03.09	DRAFT FOR REVIEW	MK	AGW

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Master copy with original signatures held by Network Rail HQ
CIVIL ENGINEERING STANDARD DESIGN

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UNDERBRIDGE ANCILLARY ITEM DRAWINGS

LIFTING BRACKET INCLINDED LIFT

Scale	AS SHOWN	
Drawing Number	NR/CIV/SD/1841	B

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