Supplementary Information

The following information is associated with Network Rail Standard:
NR CIV/SD/1028 Rev B

Additional Content Access

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CAD Drawing

- CIV/SD/1028

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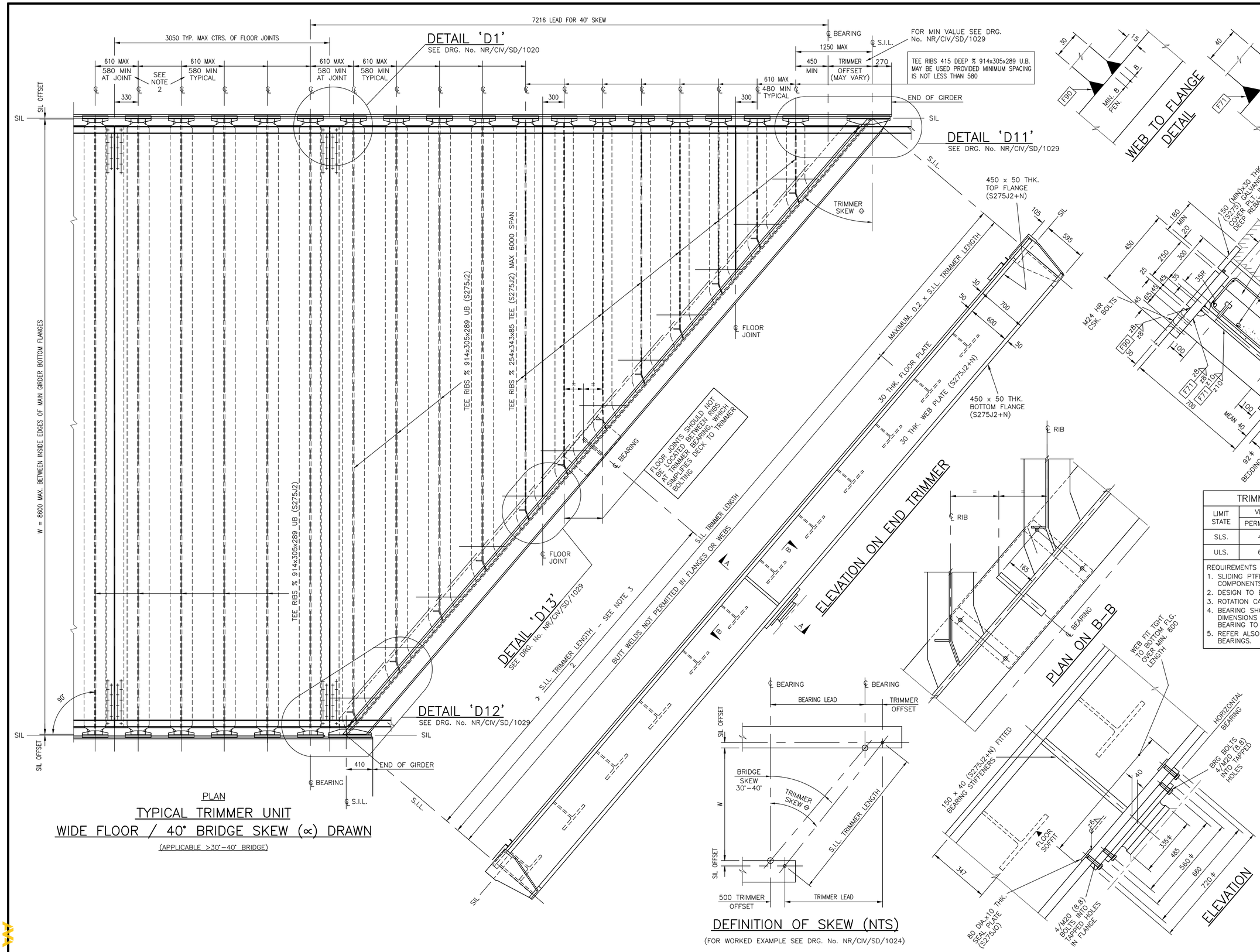
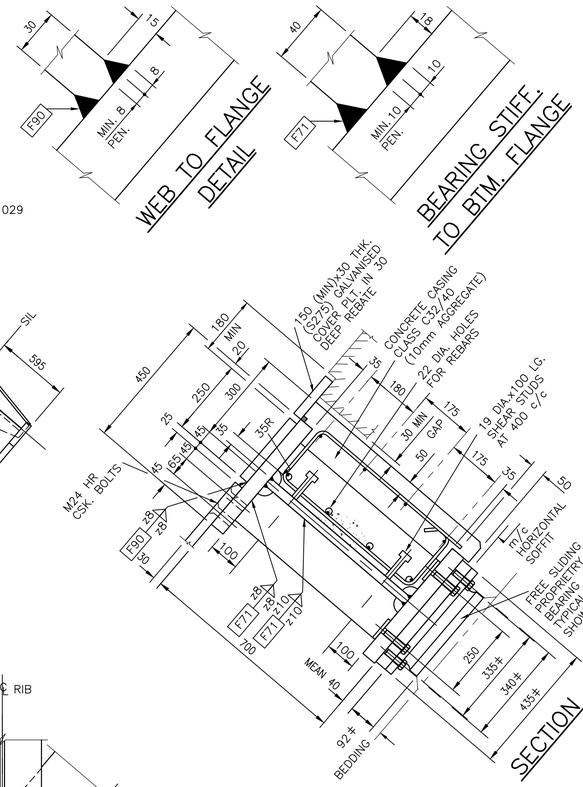
DRAWING No. NR/CIV/SD/1028





TRIMMER BEARING REQUIREMENTS

LIMIT STATE	VERTICAL LOAD (kN)		HORIZONTAL MOVEMENT (mm) IN ANY DIRECTION
	PERMANENT	MAXIMUM	
SLS.	450	2000	± 20
ULS.	650	2700	± 25

REQUIREMENTS

1. SLIDING PTFE DISC OR POT TYPE WITH STEEL EXTERNAL COMPONENTS, WITH PROTECTIVE TREATMENT TO SPECIFICATION.
2. DESIGN TO BS EN 1337–1
3. ROTATION CAPACITY ± 0.01 RADIANS IN ANY DIRECTION.
4. BEARING SHOWN IS TYPICAL DISC TYPE FREE SLIDING. DIMENSIONS INDICATED THUS ‡ ARE SUBJECT TO ACTUAL BEARING TO BE USED.
5. REFER ALSO TO NOTE 8 FOR SETTING OUT OF TRIMMER BEARINGS.

Rev	Date	Description of revision	Design'd	C'kd
B	Dec 10	EUROCODE ISSUE	CH	MM
A	Dec 09	ORIGINAL ISSUE	CH	MM

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Approved	P Clark	Senior Programme Engineering Manager (Building & Civils)	P.C.	Dec–10
	Name	Position	Signature	Date

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

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STANDARD HALF THROUGH UNDERBRIDGES BOX GIRDERS & TRANSVERSE RIBBED FLOORS

DOUBLE TRACK – 2 GIRDERS

WIDE FLOORS >30°–55° SKEW SHEET 1 OF 4

Scale	1:25, 1:10, 1:2	
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1. TEE RIBS SHALL BE FORMED IN ONE LENGTH. INTERMEDIATE WELDED JOINTS ARE NOT PERMITTED.
2. 580 RIB SPACING IS DESIRABLE MINIMUM TO ALLOW WELDING, PROTECTIVE TREATMENT & MAINTENANCE.
3. TRIMMER BEARING SHALL BE LOCATED SUCH THAT ITS DISTANCE FROM THE OBTUSE END S.I.L. IS NOT GREATER THAN $\frac{\text{S.I.L. TRIMMER LENGTH}}{2}$ BUT AS CLOSE TO MID–LENGTH AS POSSIBLE TAKING ACCOUNT OF RIB LOCATIONS.
4. DIMENSIONS THUS ‡ DEPEND UPON BEARING DIMENSIONS & MUST BE CHECKED WITH MANUFACTURER.
5. FOR ENLARGED DETAIL OF TRIMMER CASING SEE DRG. No.NR/CIV/SD/1021.
6. SEE DRG. No. NR/CIV/SD/1020 FOR LOCATION OF FLOOR PLATE BUTT WELDS.
7. FOR BRIDGE INSTALLATION METHODS REQUIRING MULTIPLE DECK UNITS WITH INTEGRAL TRIMMERS SEE DRAWING SERIES NR/CIV/SD/1032 – 1037.
8. TRANSVERSE AND LONGITUDINAL BEARING DIRECTIONS ARE DEFINED AS TRANSVERSE/LONGITUDINAL TO AXIS OF MAIN GIRDER
   FIXED END – SET TRIMMER BEARINGS TO MID POINT OF MOVEMENT RANGE IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS
   FREE END – SET TRIMMER BEARINGS TO MIDPOINT OF MOVEMENT RANGE IN TRANSVERSE DIRECTION
   IN LONGITUDINAL DIRECTION:
   FOR SPANS UP TO 27m: OFFSET BEARING BY 0.33mm FOR EACH DEGREE ABOVE OR BELOW 10°C
   FOR SPANS > 27m: OFFSET BEARING BY 0.5mm FOR EACH DEGREE ABOVE OR BELOW 10°C

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