Supplementary Information

The following information is associated with Network Rail Standard:
NR CIV/SD/1061 Rev B

Additional Content Access

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CAD Drawing

- CIV/SD/1061

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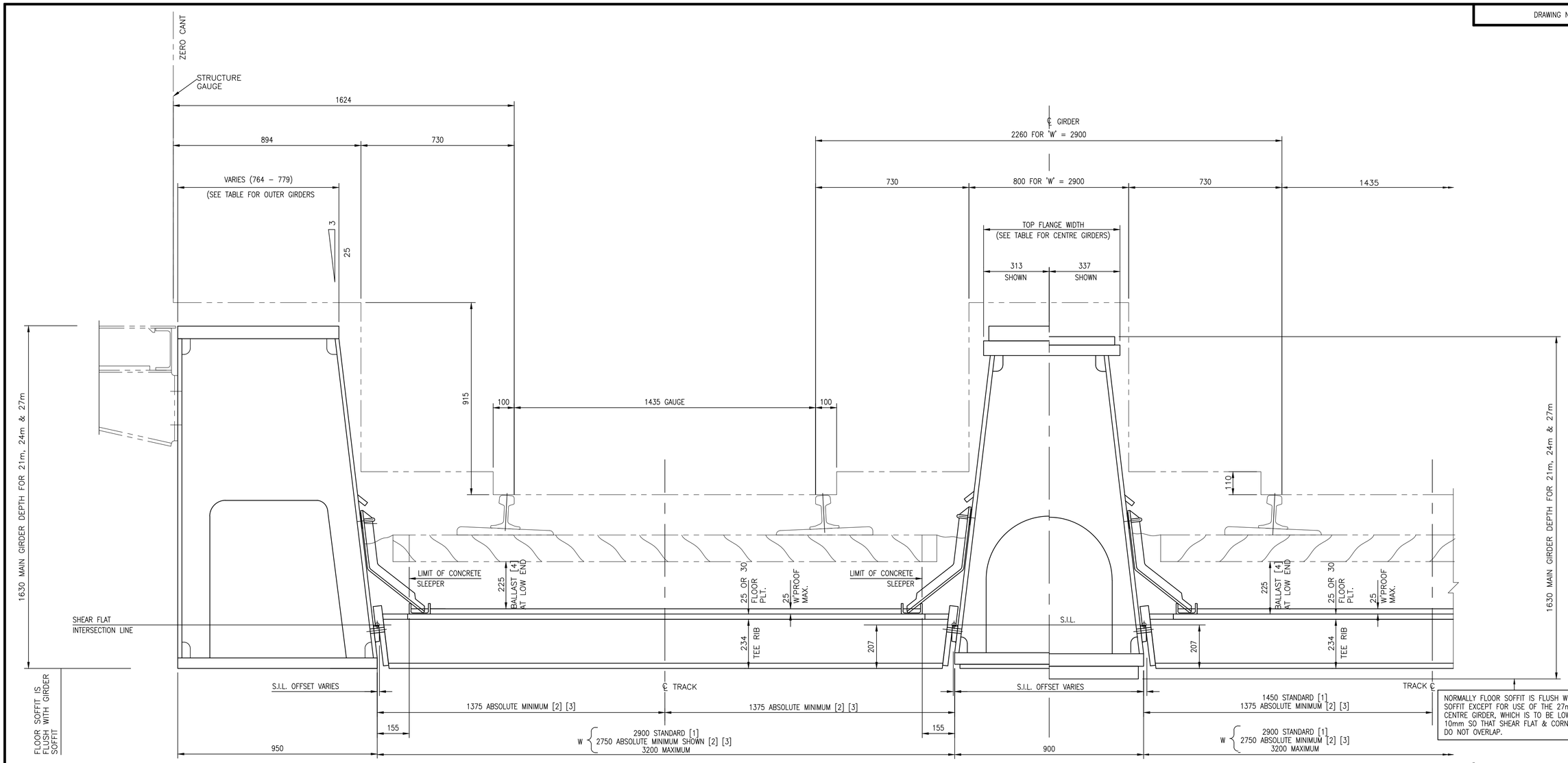
DRAWING No. NR/CIV/SD/1061



OUTER GIRDER

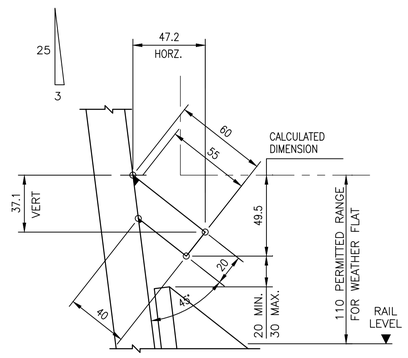
CENTRE GIRDER

PART SECTION AT MIDSPAN

OUTER GIRDERS	SPAN LIMIT (m)	FLANGE THICKNESS TOP	FLANGE THICKNESS BOTTOM	FLANGE WIDTH TOP	FLANGE WIDTH BOTTOM	DEPTH	S.I.L. OFFSET TEE RIBS
HEAVY GIRDERS	21	55	45	767	950	1630	5.7
	24	65	55	769	950		6.9
	27	45+45	65	773	950		8.1
LIGHT GIRDERS	21	45	35	764	950	1630	4.5
	24	60	50	767	950		5.7
	27	40+40	60	772	950		7.5

CENTRE GIRDERS	SPAN LIMIT (m)	FLANGE THICKNESS TOP	FLANGE THICKNESS BOTTOM	FLANGE WIDTH TOP	FLANGE WIDTH BOTTOM	DEPTH	S.I.L. OFFSET TEE RIBS
HEAVY GIRDERS	21	70	50	675	900	1630	6.3
	24	40+50	40+40	675	900		9.9
	27	50+60	50+50	675	900		12.3
LIGHT GIRDERS	21	60	45	650	900	1630	7.5
	24	40+50	40+40	675	900		9.9
	27	50+60	50+50	675	900		12.3

DIMENSIONS ALLOW FOR ±25mm TOLERANCE FOR POSITIONING OF TRACK & ±25mm TOLERANCE FOR POSITIONING OF STRUCTURE



WEATHER FLAT DETAIL

KEY [1] STANDARD DIMENSION SHOULD BE USED WHEREVER POSSIBLE SO THAT THE SLEEPER DOES NOT PROJECT OVER EDGE OF THE BALLAST PLATE CHANNEL. DIMENSION IS MINIMUM FOR STRAIGHT TRACK & MUST BE INCREASED ON CURVED TRACK FOR TRACK RADIUS, THROW & CANT.

KEY [2] USE TIMBER SLEEPERS (AS SHOWN) IF 'W' LESS THAN STANDARD. NOTE TIMBER SLEEPERS MUST BE USED FOR DOUBLE TRACK BRIDGES UNLESS '6 FOOT' IS INCREASED SO THAT SLEEPER DOES NOT PROJECT OVER END OF BALLAST PLATE.

KEY [3] DIMENSION IS MINIMUM FOR STRAIGHT TRACK AND MUST BE INCREASED ON CURVED TRACK FOR TRACK RADIUS, THROW & CANT.

KEY [4] 225mm BALLAST DEPTH IS SHOWN AS A MINIMUM ON WHICH STRUCTURE GAUGE CLEARANCES ARE SHOWN ON THIS DRAWING. STANDARD BALLAST DEPTH 300mm SHOULD BE USED WHEREVER POSSIBLE AND ASSUMING THAT BALLAST PLUS WATERPROOFING DEPTH IS (250mm + 25mm) AT MID SPAN (TO ALLOW FOR CAMBER EFFECT).

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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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

SINGLE TRACK – 2 GIRDERS DOUBLE TRACK – 3 GIRDERS

TYP. CROSS SECTION SHOWING MIN. FLOOR WIDTH & REDUCED BALLAST

Scale	1:10, 1:2	
Drawing Number	NR/CIV/SD/1061	B

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