Supplementary Information

The following information is associated with Network Rail Standard:
NR CIV/SD/604 Rev A

Additional Content Access

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CAD Drawing

- CIV/SD/604

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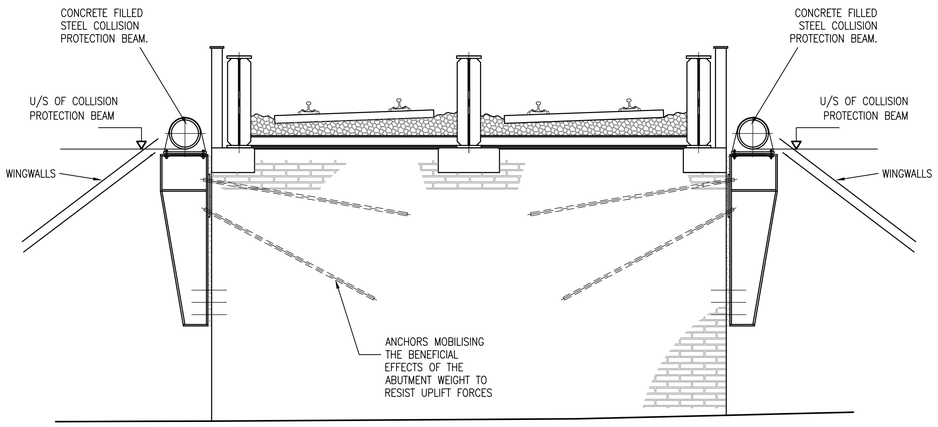
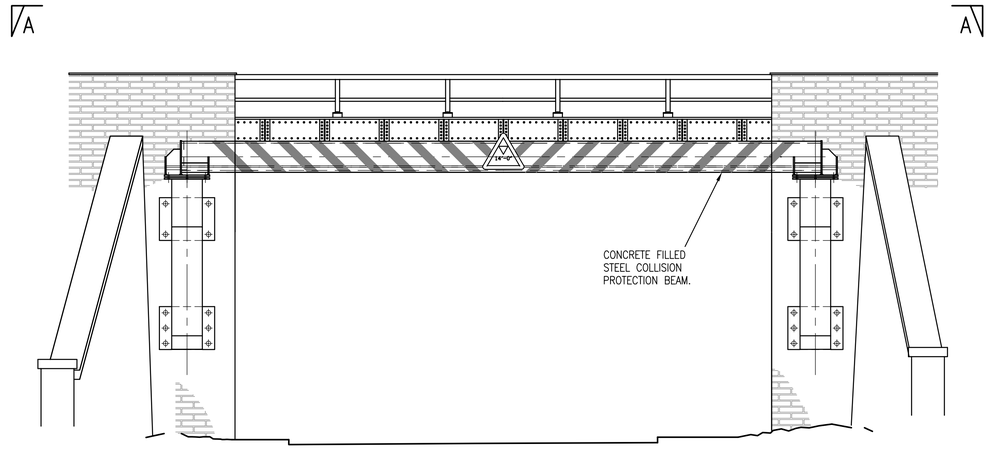


TRANSVERSE ELEVATION OF ABUTMENT

SCALE 1 : 50

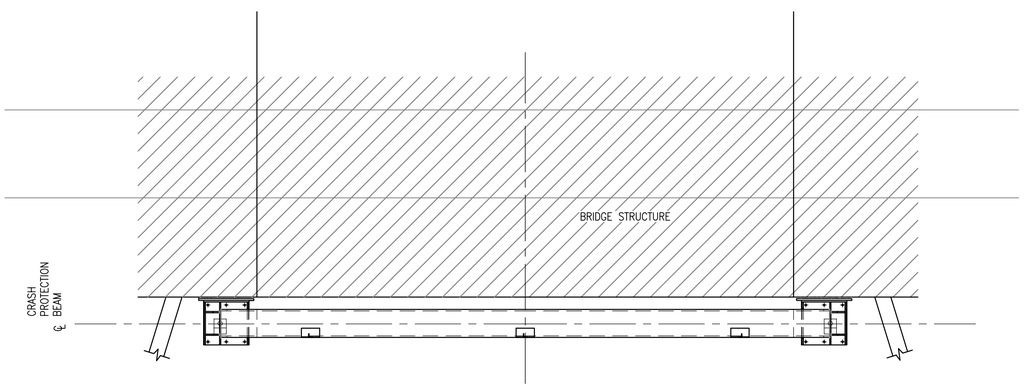


LONGITUDINAL ELEVATION OF BRIDGE

SCALE 1 : 50

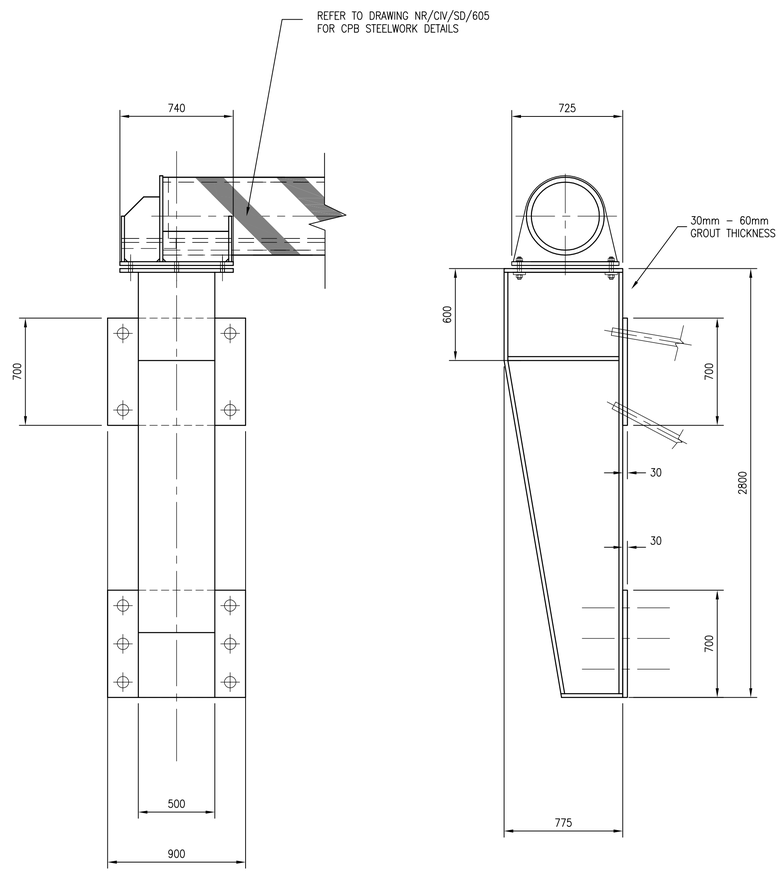
CONNECTION ONTO ABUTMENT EXTENSIONS

(SAME DETAILS AS CONNECTION ONTO CILL BEAM)



PLAN ON A–A

SCALE 1 : 50



DETAIL

1:20

DRAWING No. NR/CIV/SD/604

NOTES

A GENERAL

A1. THIS DRAWING SHOWS A SOLUTION FOR STEEL STOOL TO SUPPORT THE CPB. THIS SOLUTION REQUIRES CAREFUL ASSESSMENT OF THE EXISTING ABUTMENT CONDITION AND CAPACITY.

A2. THE PARTICULAR SIZES AND CONFIGURATION USING GROUND ANCHORS IS SCHEMATIC ONLY AND THE DESIGNER SHALL DEVELOP AN APPROPRIATE SCHEME FOR THE PARTICULAR APPLICATION.

B SPECIFICATION

B1. REFER TO DRAWING NR/CIV/SD/600.

B2. ALL STEEL WORK SHALL BE IN ACCORDANCE WITH TO BS EN:10025 :2004, GRADE AS SPECIFIED BY THE DESIGNER IN THE PARTICULAR SPECIFICATION.

B3. ALL CONNECTION WELDS SHALL BE 8MM CONTINUOUS FILLET WELDS UNLESS NOTED OTHERWISE, WELDS TO INNER AND OUTER STIFFENERS TO BE ALL ROUND, ALL IN ACCORDANCE WITH BS EN 1011–1:1998.

B4. ALL HSFG BOLTS SHALL BE GENERAL GRADE IN ACCORDANCE WITH BS 4395 PART 1.

B5. FABRICATION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS DOCUMENT NR/GN/CIV/008 SECTIONS 90 AND 170.

B6. ALL STEELWORK SHALL HAVE SHOP APPLIED SURFACE PROTECTION TO TYPE N1 FULL SYSTEM IN ACCORDANCE WITH THE NETWORK RAIL COMPANY STANDARD NR/GN/CIV/002 "APPLICATION & RE–APPLICATION OF PROTECTIVE TREATMENT TO METALLIC STRUCTURES" TO PROVIDE A SERVICE LIFE TO FIRST MAINTENANCE OF 25 YEARS. COLOUR SHALL BE SPECIFIED BY NETWORK RAIL EXCEPT AS NOTED BELOW.

B7. FAYING SURFACES FOR HSFG BOLTS SHALL BE SHOP BLAST CLEANED TO SA2½ INCLUDING A PERIPHERAL AREA EXTENDING 12MM BEYOND THESE JOINTS AND MASKED IN ACCORDANCE WITH CLAUSE 9.7.2 OF NR/GN/CIV/002.

B8. AREAS PARTIALLY EMBEDDED IN CONCRETE SHALL BE BLAST CLEANED AND PRIMED ONLY. NO METAL COATING SHALL BE APPLIED AND METALLIC PRIMERS SUCH AS ZINC RICH SHALL BE AVOIDED.

B9. FULL PAINT SYSTEM SHALL BE APPLIED ON SITE TO COMPLETED BOLTED JOINTS.

B10. ALL TUBES AND TUBE LIKE VOIDS SHALL BE SEALED WITH END PLATES PRIOR TO BLAST CLEANING AND APPLICATION OF PROTECTIVE TREATMENT.

C RISK ASSESSMENT

C1. REFER TO TABLE 1 ON DRAWING NR/CIV/SD/600

D INSTALLATION GUIDANCE

D1. REFER TO DRAWING NR/CIV/SD/600.

D2. FABRICATED STEEL SHIMS AND PACKING PLATES SHALL BE PROVIDED AT THE STOOL SUPPORTS FOR THE FINE ADJUSTMENT OF LEVEL.

E DESIGN ASSUMPTIONS

E1. REFER TO DRAWING NR/CIV/SD/600.

E2. IT IS ASSUMED THAT THE EXISTING ABUTMENT AND ABUTMENT EXTENSIONS WILL ACT AS A COMPOSITE UNIT IN RESISTING THE APPLIED FORCES.

Rev	Date	Description of revision	Design'd	C'kd
A	31.03.08	FIRST ISSUE	HCHS	NGAY
P2	10.03.08	FORM B APPROVAL	HCHS	NGAY
P1	04.10.06	FORM A APPROVAL	GPR	NGAY

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STRUCTURES MISCELLANEOUS

COLLISION PROTECTION BEAM
STEEL STOOL OPTION

Scale	AS SHOWN	
Drawing Number	NR/CIV/SD/604	REV. A

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