Supplementary Information

The following information is associated with Network Rail Standard:
NR CIV/SD/700 Rev A

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CAD Drawing

- CIV/SD/700

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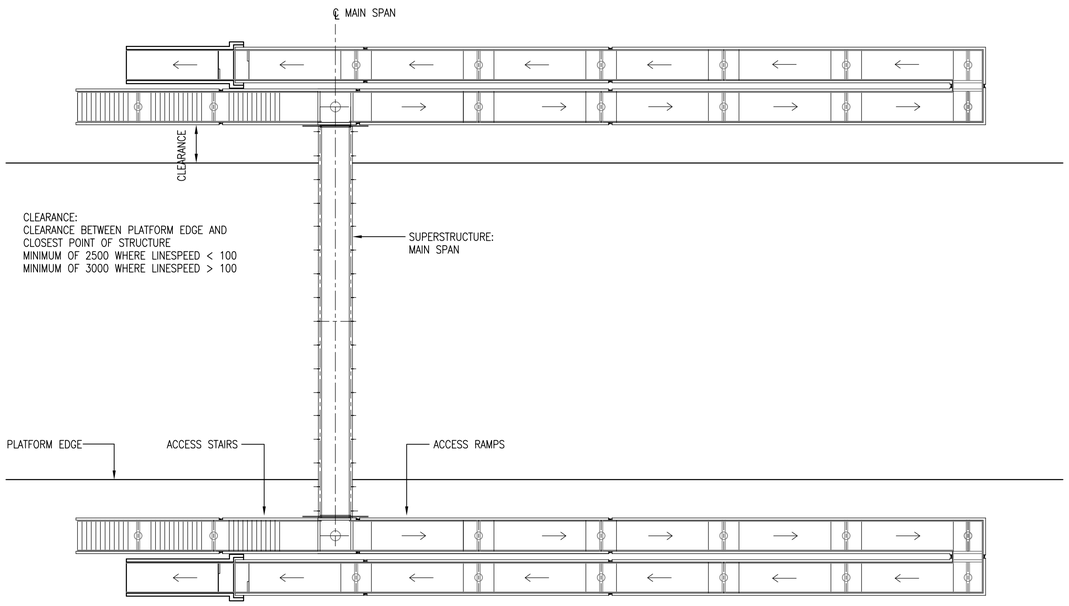
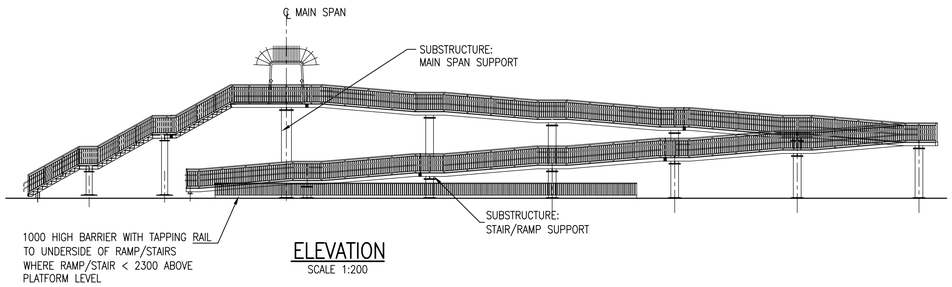


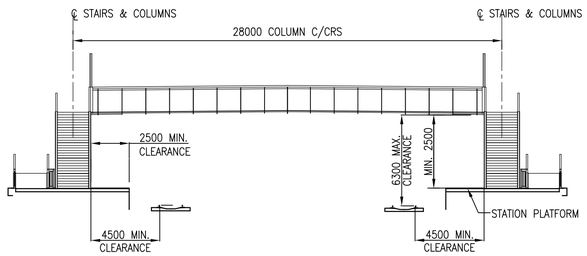
PLAN

SCALE 1:200



ELEVATION

SCALE 1:200



ELEVATION ON MAIN SPAN

SCALE 1:200

TABLE 1

SAFETY, HEALTH & ENVIRONMENT RISK ASSESSMENT

DESIGNERS' NOTE – CDM REG. 13(2)(b)

THE FOLLOWING ARE SIGNIFICANT HAZARDS WHICH MIGHT AFFECT THE HEALTH AND SAFETY OF THOSE UNDERTAKING THE WORKS OUTLINED IN THIS SET OF DRAWINGS ON RAILWAY STRUCTURES OR THOSE AFFECTED BY THESE ACTIVITIES. A SITE SPECIFIC RISK ASSESSMENT SHOULD ALWAYS BE UNDERTAKEN PRIOR TO COMMENCING ANY OF THE WORKS DESCRIBED ON SITE.

IT IS ASSUMED THAT A COMPETENT CONTRACTOR IS AWARE OF THE RISKS ASSOCIATED WITH GENERAL CONSTRUCTION ACTIVITIES UNDERTAKEN WITHIN THE RAILWAY ENVIRONMENT.

RISK	STAGE	MITIGATING MEASURES
WORKING AT HEIGHT DURING CONSTRUCTION	C	WORK MINIMISED. ALL WELDING TO BE CARRIED OUT OFF SITE AT GROUND LEVEL. ON SITE WORK TO BE COMPOSED OF FITTING TOGETHER PIPE WORK AND SECURING BOLTED CONNECTIONS. CONTRACTOR TO ENSURE A SAFE METHOD OF WORK IS USED.
WORKING AT HEIGHT DURING OPERATION / MAINTENANCE	O	WORK MINIMISED. ALL MAINENTANCE TO LIGHTING CAN BE CARRIED OUT FROM BRIDGE DECK. DRAINAGE MAINTENANCE CAN ALL BE CARRIED OUT FROM ABOVE PLATFORM. OPERATOR TO ENSURE A SAFE METHOD OF WORK IS USED
POSITIVE DRAINAGE FIXTURES BEING USED AS FOOTHOLDS WHERE POSITIVE DRAINAGE IS USED	O	CIRCULAR DRAINAGE FIXTURE USED OVER ANGULAR TO MINIMISE FOOT HOLD POTENTIAL. MINIMAL BRACKET DEPTH PROVIDED BEHIND PIPES AT FIXING LOCATIONS
CABLE DUCTS/TRUNKING USED AS FOOTHOLDS	O	ANGLED PLATE PLACED OVER CABLE DUCTS TO MINIMISE FOOTHOLDS

NOTE : C=CONSTRUCTION, D=DESIGN, O=OPERATION

REFERENCE DRAWINGS – FOOTBRIDGES NON-MAINLINE STATIONS

DRAWING No.	DRAWING TITLE
NR/CIV/SD/700	INTRODUCTION
NR/CIV/SD/710	SURFACE DRAINAGE OVERVIEW
NR/CIV/SD/711	DRAINAGE DETAILS MAIN SPAN – OPTION 1
NR/CIV/SD/712	DRAINAGE DETAILS MAIN SPAN – OPTION 2
NR/CIV/SD/713	DRAINAGE DETAILS – STAIRS SHEET 1 OF 2
NR/CIV/SD/714	DRAINAGE DETAILS – STAIRS SHEET 2 OF 2
NR/CIV/SD/715	DRAINAGE DETAILS – RAMPS SHEET 1 OF 2
NR/CIV/SD/716	DRAINAGE DETAILS – RAMPS SHEET 2 OF 2
NR/CIV/SD/717	DRAINAGE DETAILS – SUPPORTS
NR/CIV/SD/720	LIGHTING GENERAL ARRANGEMENT
NR/CIV/SD/721	LIGHTING DETAILS SHEET 1 OF 2
NR/CIV/SD/722	LIGHTING DETAILS SHEET 2 OF 2
NR/CIV/SD/723	TRUNKING DETAILS – OPTION 1
NR/CIV/SD/724	TRUNKING DETAILS – OPTION 2
NR/CIV/SD/730	LIFT LINK PLATFORM GENERAL ARRANGEMENT

THE NR/CIV/SD/700 SERIES PROVIDE THE NECESSARY ADDITIONAL DETAILS TO ENABLE THE ADOPTION OF NETWORK RAIL'S FOOTBRIDGE NON-STATION STANDARD DESIGN (400 SERIES) AT NON-MAINLINE STATIONS.

B6. DRAINAGE

B6a. IF THE DESIGNER IN CONJUNCTION WITH THE ASSET STEWARD DECIDES THAT POSITIVE DRAINAGE TO PLATFORM LEVEL IS REQUIRED THEN THE DRAINAGE DETAILS ON DRAWING NR/CIV/SD/710–717 MAY BE USED.

B6b. DRAINAGE PIPES FROM STAIRS/RAMPS TO BE GALVANISED STEEL AND WILL CONNECT INTO STATION DRAINAGE SYSTEM THROUGH GRATING LOCATED AT COLUMN/TRESTLE BASES.

B6c. DRAINAGE PIPES TO HAVE AN MINIMUM INTERNAL DIAMETER OF 115mm AT CONNECTION TO SPITTER PIPER. THIS MAY BE REDUCED AT THE DESIGNERS DISCRETION TO A MINIMUM OF 75mm ONCE CLEAR OF THE SPITTER PIPES.
THE DRAWINGS SHOW PIPES WITH AN INTERNAL DIAMETER OF 125mm AND A WALL THICKNESS OF 2.5mm.

C. INSTALLATION GUIDANCE

C1. REFER TO REFERANCE DRAWINGS.

D. DESIGN ASSUMPTIONS

D1. REFER TO REFERENCE DRAWINGS.

E. RISK ASSESSMENT

E1. SEE TABLE 1.

DRAWING No. NR/CIV/SD/700

NOTES

A. GENERAL

A1. ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.

A2. THIS DRAWING TO BE READ IN CONJUNCTION WITH:–
NR/CIV/SD/400 SERIES DRAWINGS.
NR/CIV/SD/700 SERIES DRAWINGS.
NR/CIV/TUM/400 TECHNICAL USER MANUAL FOOTBRIDGES.

A3. ABBREVIATIONS:
PLT.=PLATE, TYP.=TYPICAL, THK.=THICK, U.N.O.=UNLESS NOTED OTHERWISE, CRS.=CENTRES, BTM.=BOTTOM, O/A=OVERALL, LG.=LONG, S.O.P.=SETTING OUT POINT, I.P.=INTERSECTION POINT, PEN.=PENETRATION, T.O.B.=TOP OF BASEPLATE

B. SPECIFICATION:

B1. THE DESIGNER SHALL PREPARE A PARTICULAR SPECIFICATION FOR THE WORKS TO DEFINE THE SPECIFIC REQUIREMENTS FOR THE PROJECT.

B2. STEELWORK

B2a. STEEL GRADES TO BE AS FOLLOWS:
HOLLOW SECTIONS TO BE 'HOT ROLLED' STEEL GRADE S275 J2 TO B.S. EN 10210:1994
PLATE STEEL & ALL OTHER SECTIONS TO BE 'HOT ROLLED' STEEL GRADE S275 J2 TO B.S. EN 10025:2004

B2b. ALL RHS/SHS/CHS SECTIONS TO BE FULLY WELDED AND SEALED AGAINST INGRESS. HOLES FOR BOLT FIXINGS ETC., ARE TO BE AVOIDED.

B2c. ALL DRILLING AND WELDING FOR FIXINGS FOR LIGHTING & DRAINAGE SHOULD BE CARRIED OUT BEFORE PROTECTIVE SYSTEM FOR STEELWORK IS APPLIED. NO WELDING OR DRILLING TO BE CARRIED OUT ON SITE.

B2d. UNLESS OTHERWISE NOTED ALL FIXINGS FOR:
- CABLE TRAY
- DRAINAGE
- DRAINAGE PIPEWORK
- ELECTRICAL TRUNKING/DUCT
- LIGHTING

TO BE CONSTRUCTED DURING FABRICATION STAGE IN 'FACTORY' CONDITION.

B3. BOLTS

B3a. ALL M10, M12, M16 & M20 BOLTS TO BE GRADE 8.8 IN ACCORDANCE WITH BS 4190 U.N.O.

B3b. ALL H.S.F.G. BOLTS FOR COLUMN CAP CONNECTIONS TO BE GENERAL GRADE IN ACCORDANCE WITH BS 4395 PART 1. BOLTS ARE TO BE INSTALLED IN ACCORDANCE WITH BS 4604

B3c. FAYING SURFACES TO H.S.F.G. BOLT JOINTS SHALL BE UNPAINTED EXCEPT FOR 15mm EDGE STRIP

B4. WELDS

B4a. ALL CONNECTION WELDS TO BE 6mm CONTINUOUS FILLET WELDS UNLESS NOTED OTHERWISE

B4b. ALL WELDS TO BE IN ACCORDANCE WITH B.S. EN 1011-1:1998

B5. PAINT FINISH

B5a. SURFACE PROTECTION TO BE N1 IN ACCORDANCE WITH NETWORK RAIL COMPANY STANDARDS NR/GN/CIV/002. 'APPLICATION & RE-APPLICATION OF PROTECTIVE TREATMENT TO METALLIC STRUCTURES' HANDRAIL PAINT FINISH TO BE A CONTRASTING COLOUR TO THE STRUCTURE

Rev	Date	Description of revision	Design'd	C'kd
A	18/4/8	FIRST ISSUE	AJB	NGAY
P2	25/3/8	FORM B APPROVAL	AJB	NGAY
P1	13/4/7	FORM A APPROVAL	AJB	AJB

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

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FOOTBRIDGES NON-MAINLINE STATIONS STANDARD DRAWINGS

INTRODUCTION

Scale	1:25	
Drawing Number	NR/CIV/SD/700	A

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