

NOTES

GENERAL

ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM UNLESS STATED OTHERWISE

DO NOT SCALE FROM THESE DRAWINGS. DO NOT TAKE DIGITAL DIMENSIONS FROM THESE DRAWINGS

WORK TO FIGURED DIMENSIONS ONLY - IF IN DOUBT ASK

ALL DRAWINGS TO BE VIEWED IN COLOUR

MINIMUM CLEARANCE FROM RUNNING RAIL TO NEAREST STRUCTURAL ELEMENT OF 4.5m, MINIMUM CLEARANCE FROM TOP OF RAIL TO SOFFIT OF 5.20m IN ACCORDANCE WITH NR/L2/TRK/2049

HAZARDS

REFER TO TABLE AND DESIGNERS RISK ASSESSMENT

THE DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH NR/BS/LI/331 AND BS EN 50122-1 & BS EN 50122-2, WITH BESPOKE DESIGN AS NECESSARY, ALL DESIGNED ON A SITE SPECIFIC BASIS

DESIGN ASSUMPTIONS

REFER TO NR/L3/CIV/020 DESIGN OF BRIDGES

WIND LOAD VARIES ON A SITE SPECIFIC BASIS, DESIGNED IN ACCORDANCE WITH BS EN 1991-1-4

LIVE LOAD - 5kN/m² OR 5KN POINT LOAD APPLIED TO A 300mm SQUARE - AS PER NR/L3/CIV/030 ISS 3 PLATFORM COMPONENTS AND PREFABRICATED CONSTRUCTION SYSTEMS. MAX DEFLECTION SHALL NOT EXCEED SPAN/300

THERMAL LOADING VARIES, DESIGNED IN ACCORDANCE WITH BS EN 1991-1-5

LIFTING

ANY LIFTING POINTS / DETAILS SHOWN AND PROPOSALS FOR LIFTING METHODS ARE SUBJECT TO CONFIRMATION BY FABRICATOR - DETAILS TO BE APPROVED BY SCHEME DESIGNER PRIOR TO FABRICATION

A MINIMUM OF 4No. LIFTING POINTS ARE REQUIRED FOR EACH SECTION TO BE LIFTED.

ANY COLLAR EYEBOLTS AND SAFE WORKING LOADS TO BE IN ACCORDANCE WITH BS 4278:1984

THE USE OF ANY ALTERNATIVE LIFTING ARRANGEMENTS SHALL BE THE RESPONSIBILITY OF THE SCHEME DESIGNER AND WOULD BE SUBJECT TO NETWORK RAIL APPROVAL

INSTALLATION GUIDANCE

FOR ENVISAGED CONSTRUCTION SEQUENCE, REFER TO DRAWING S2021-145-DRG-107

DRAINAGE

BRIDGE DECK TO BE CONSTRUCTED WITH NOMINAL 1:200 FALL FROM CENTRE. SPITTERS TO BE POSITIONED TO LOW POINTS. SPITTER PIPES TO DISCHARGE TO GROUND, DIRECTING WATER AWAY FROM FOUNDATIONS

FOR DETAILS OF SPITTER PIPES, REFER TO INDIVIDUAL STRUCTURAL DETAIL DRAWINGS

DRIPS ARE TO BE FORMED ON STAIRS BY THE SURFACING ON EDGE OF STEPS

THE RAINWATER DRAINAGE DESIGN ILLUSTRATED ON THESE DRAWINGS IS INDICATIVE ONLY

STAIRS AND RAMPS TO BE CONSTRUCTED WITH NOMINAL 1/80 CROSS FALL TO ALLOW FREE DRAINAGE

TYPICAL FALL ON LANDINGS 30mm

SPECIFICATION

SEE INDIVIDUAL DRAWINGS FOR RELEVANT SPECIFICATION

GROUT

ANY GROUT AT FOUNDATION CONNECTIONS TO BE NON SHRINK NON-CEMENTITIOUS GROUT OF MINIMUM STRENGTH 50N/mm².

HANDRAIL

HANDRAIL SETTING-OUT IS TO BE MEASURED FROM THE TOP OF HANDRAIL TO THE TOP OF LANDING DECK FINISH OR STAIR PITCH LINE.

HANDRAILS ARE TO COMPLY WITH THE CURRENT VERSION OF THE DfT CODE OF PRACTICE "ACCESSIBLE TRAIN STATION DESIGN FOR ALL".

STAIRCASES

EACH FLIGHT SHALL HAVE AN EQUAL NUMBER OF STEPS UP TO A MAXIMUM OF 12 RISERS.

RISER HEIGHTS SHALL BE EQUAL FOR EACH SERIES OF FLIGHTS.

STAIRS: A LEVEL LANDING SHOULD BE PROVIDED AT THE TOP AND BOTTOM OF EACH FLIGHT OF STEPS. ITS LENGTH, CLEAR OF ANY OBSTRUCTION, SHOULD NOT BE LESS THAN THE SURFACE WIDTH OF THE FLIGHT.

PROVIDE 60x6 PLATE KICKER TO ALL STEPS AND LANDINGS.

STAIR TO STAIR SPLICE JOINT TO HAVE SLOTTED HOLES ON OUTSIDE PLATE AND COVER PLATE TO BE ON OUTSIDE OF SPLICE.

NOTES (CONTINUED)

FIBRE REINFORCED PLASTIC

PULTRUDED SECTIONS SHALL BE CLASSIFIED ACCORDING TO BS EN 13706

MATERIALS SHALL BE BS497 PART 7 CLASS 1 / EN 13501 FIRE RESISTANT

ELEMENTS TO BE PAINTED WITH FLUOROPOLYMER PAINT TO PROVIDE 120YR DESIGN LIFE

FRP ELEMENTS BONDED WITH APPROVED ADHESIVE, L&L A-K432 OR SIMILAR, TESTED ACCORDING TO ISO 4587 SHALL BE SELECTED.

MINIMUM BOND SHEAR STRESS TO BE 3.18MPa

BOLTS

ALL NON PRE-LOADED BOLTS ARE TO BE IN ACCORDANCE WITH BS EN 15048, WITH THE MECHANICAL PROPERTY REQUIREMENTS OF BS EN ISO 898-1

ALL HOLDING DOWN BOLTS ARE TO BE GRADE 8.8SB IN ACCORDANCE WITH BS EN 14399-3 AND TO HAVE A GALVANISED FINISH. BOLTS SHOULD BE TIGHTENED IN ACCORDANCE WITH BS EN 1090-2

ALL OTHER BOLTS TO BE A2 STAINLESS STEEL COACH BOLTS UNLESS OTHERWISE STATED

ALL FIXINGS MUST INCORPORATE DESIGN FEATURES TO PREVENT LOOSENING BY VIBRATION

DISTANCES AND SPACING AS PER C779

TENSION CONTROL BOLTS (T.C.B'S) MAY BE USED AS AN ALTERNATIVE TO 8.8SB BOLTS, EXCEPT FOR STRINGER SPLICES. T.C.B'S TO BE INSTALLED ACCORDING TO MANUFACTURERS INSTRUCTION MANUAL.

SURFACE AND FINISHES

SURFACING TO INCORPORATE SLIP RESISTANT FINISH IN EXCESS OF NATIONAL STANDARDS WITH PTV 76 IN THE DRY AND PTV 74 IN WET IN ACCORDANCE BS EN 13036-4:2003

AT SPLICE SURFACE TO BE 'MADE GOOD' TO FORM UNIFORM FALL & WATERPROOF JOINT.

STAIR TREADS AND NOSING TO BE GRIPFAST HEAVY DUTY DDA COMPLIANT OR SIMILAR APPROVED WITH A MINIMUM NOSING OF 55mm. BOND ONLY FIXING OPTION IS PREFERRED WITH MANUFACTURER APPROVED ADHESIVE.

FRONT EDGE OF STEPS TO HAVE NON SLIP NOSING CONSPICUOUSLY MARKED. NOSINGS SHALL BE COLOUR CONTRASTED FROM THE REST OF THE STEP, FOR ITS FULL WIDTH TO A DEPTH OF 55mm ON THE TREAD AND THE RISER.

NOSING AT TOP AND BOTTOM OF EACH FLIGHT TO BE YELLOW, INTERMEDIATE STEP NOSINGS TO BE WHITE.

PULTRUDED SECTIONS TO BE SUPPLIED IN GREEN 14-C-40 WITH WILLOW 12-B-17 LATTICE ELEMENTS TO BRIDGE PARAPETS, WITH WHITE/YELLOW LINES AND TACTILES, FACTORY APPLIED TO APPLICABLE STAIRCASE SURFACING ELEMENTS

FORM A DRAWING PACKAGE

DRAWING REF:	DRAWING TITLE
S2021-137-DRG-CIV-100	GENERAL NOTES
S2021-137-DRG-CIV-101	EXISTING SITE LAYOUT SHOWING CONSTRAINTS AND LOCATION PLAN
S2021-137-DRG-CIV-102	TEMPORARY WORKS PLAN & CONSTRUCTION SEQUENCE
S2021-137-DRG-CIV-103	PLAN & ELEVATION - GENERAL ARRANGEMENT
S2021-137-DRG-CIV-104	FOOTBRIDGE STRUCTURE - GENERAL ARRANGEMENT
S2021-137-DRG-CIV-105	STAIRCASES - GENERAL ARRANGMENT
S2021-137-DRG-CIV-106	FOUNDATION PLAN & LOAD TABLES

NETWORK RAIL REFERENCE INFORMATION	
LINE	HITHER GREEN, DARTFORD AND ROCHESTER
ELR	HDR
STRUCTURE REF.	872A
MILEAGE	27 MILES, 01 CHAINS
OS GRID REF.	TQ 69466 73659

- Legend/Notes
- DO NOT SCALE FROM THIS DRAWING.
 - SHOULD THERE BE ANY DISCREPANCY BETWEEN DETAILS INDICATED ON THIS DRAWING AND THOSE INDICATED ON OTHER DRAWINGS THE ENGINEER SHOULD BE INFORMED PRIOR TO CONSTRUCTION ON SITE.
 - UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT AUTHORITIES IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ISSUED ARE PRELIMINARY AND NOT FOR CONSTRUCTION.
 - TOPOGRAPHICAL SURVEY INFORMATION SHOWN ON THIS DRAWING HAS BEEN PROVIDED BY NETWORK RAIL, FOLLOWING SURVEY WORKS CARRIED OUT BY STUART CALLAGHAN SURVEYORS IN OCTOBER 2020.
 - BOREHOLE INFORMATION SHOWN HAS BEEN PROVIDED BY BOREHOLE SOLUTIONS LIMITED FOLLOWING SITE INVESTIGATIONS CARRIED OUT IN JULY 2022.

TO BE REPRODUCED IN COLOUR

A01	12/09/22	PRE-IDR ISSUE	NM	IH	DC
Rev	Date	Description of Revisions	Drawn	Chkd	Appr
Status					

FOR REVIEW & COMMENT



Contractor(s)



Brunel House
RTC Business Park
London Road
Derby DE24 8UP

Tel: +44 (0)784 282 6635
Fax: +44 (0)784 282 6635

SHORNEMEAD LX FOOTBRIDGE

STANDARD NOTES DRAWING

Designed	N. MARSHALL	Signed		Date	12/09/22
Drawn	N. MARSHALL	Signed		Date	12/09/22
Checked	I. HILL	Signed		Date	12/09/22
Approved	D. GENT	Signed		Date	12/09/22
Scale(s)	1:500	ELR & Mileage	HDR 27m 01 CH		
Alternative Reference	N/A			Sheet	1 of 1
Drawing Number	S2021-137-DRG-CIV-100				Revision A01