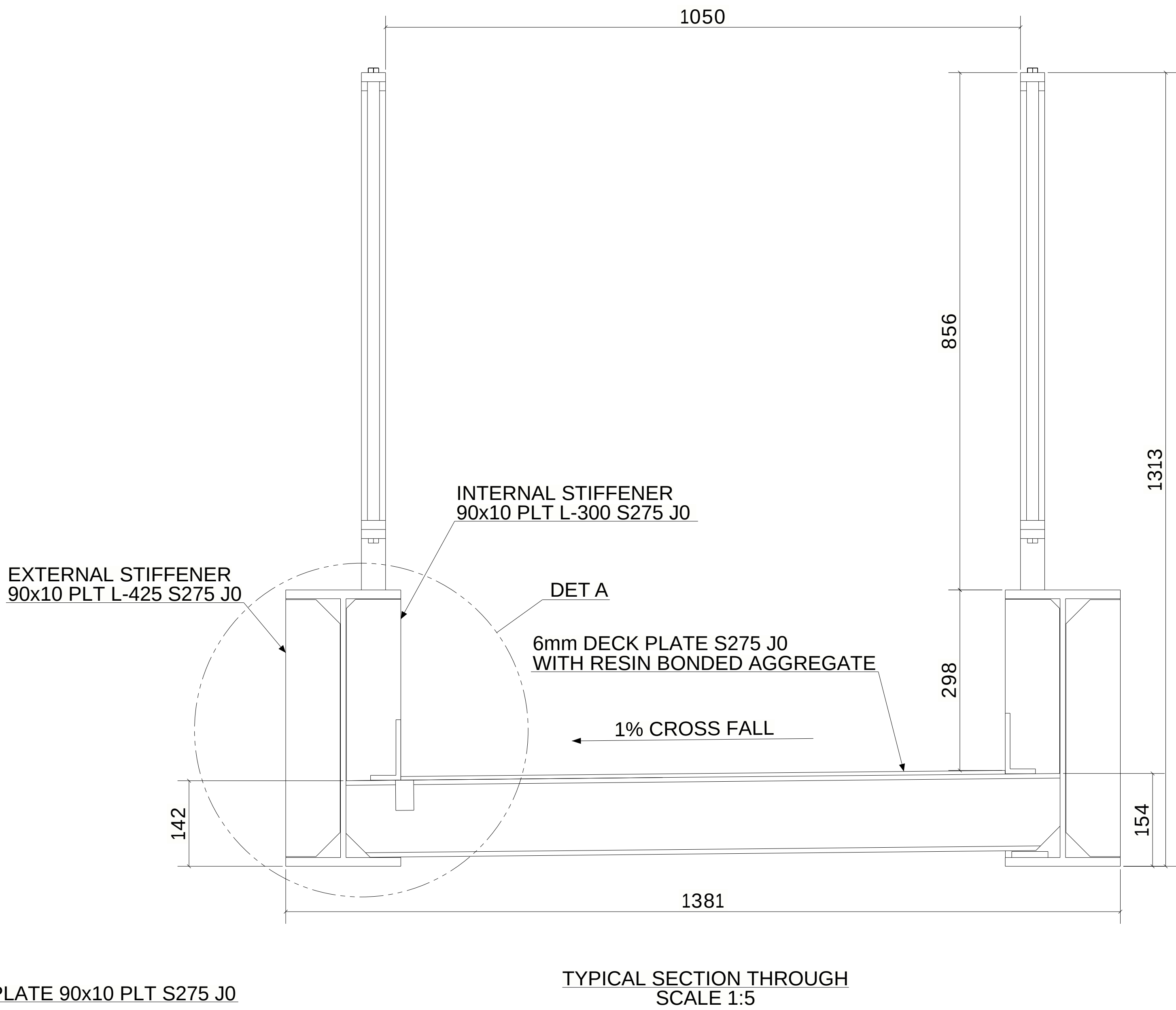
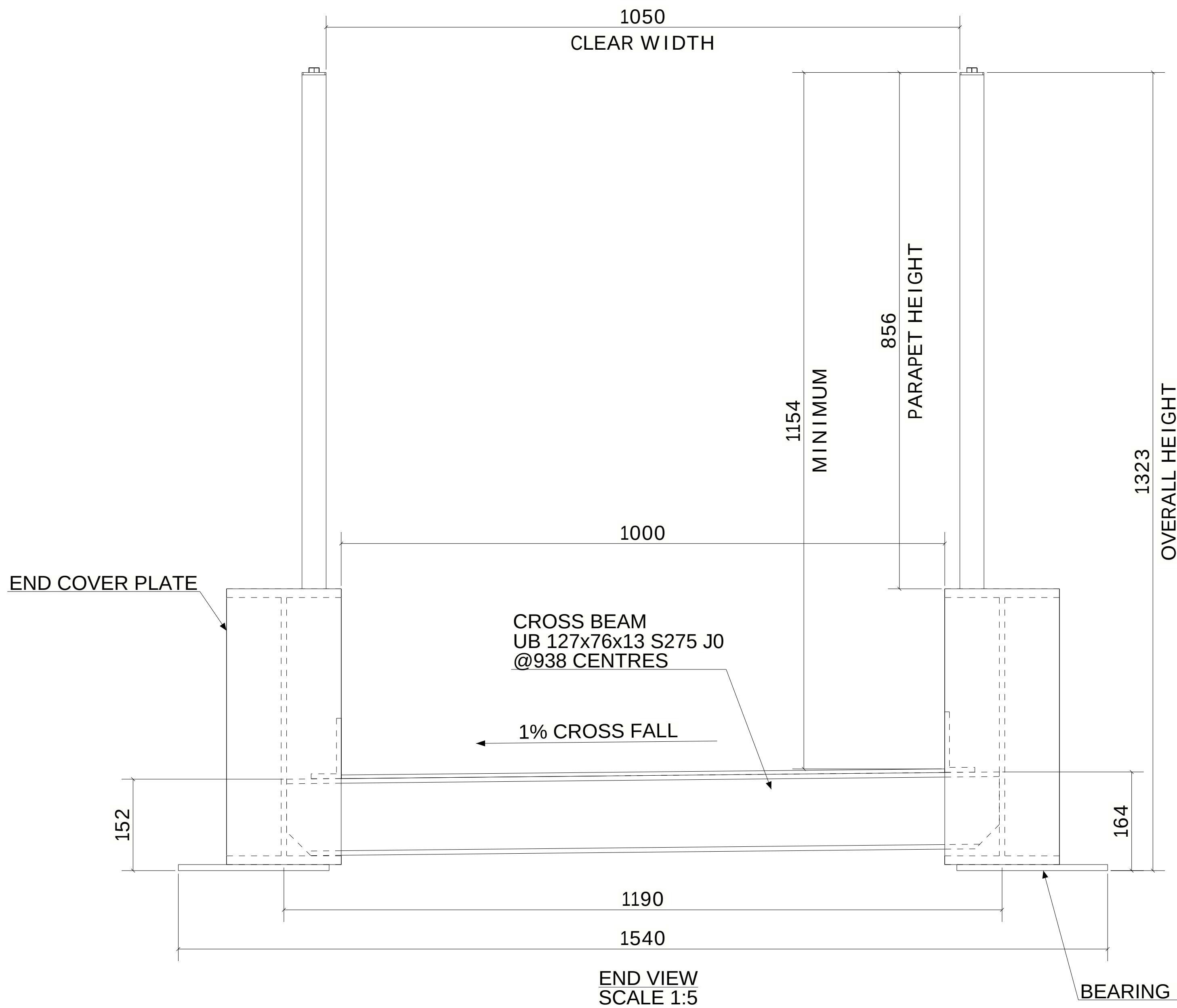
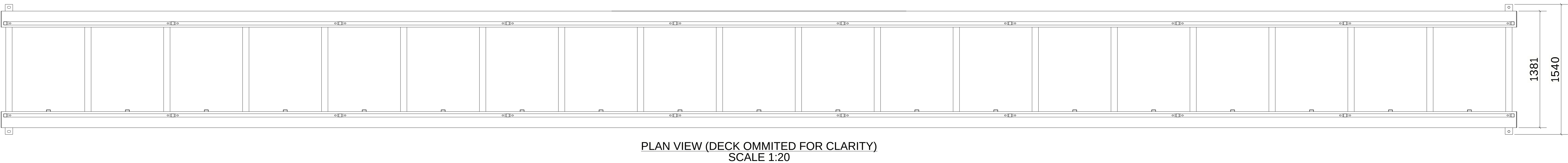
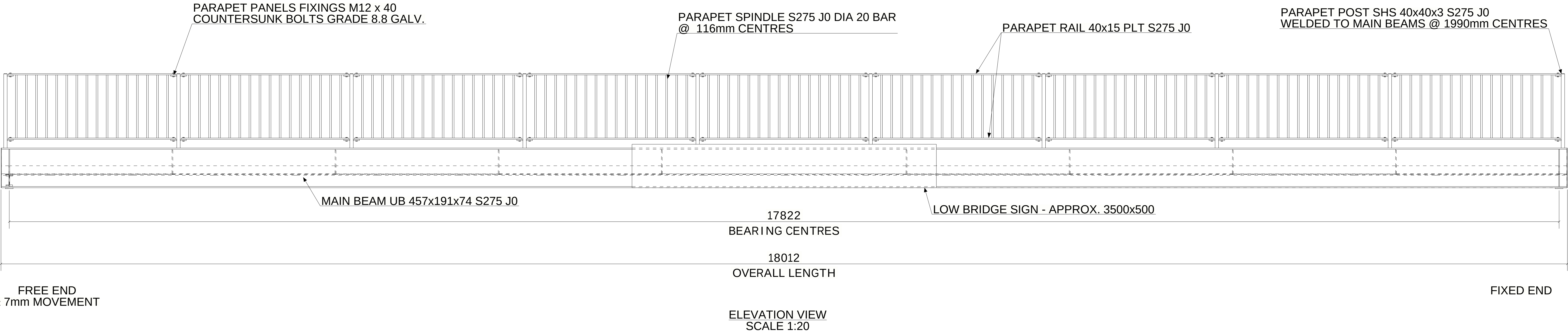




Characteristic reactions per corner:

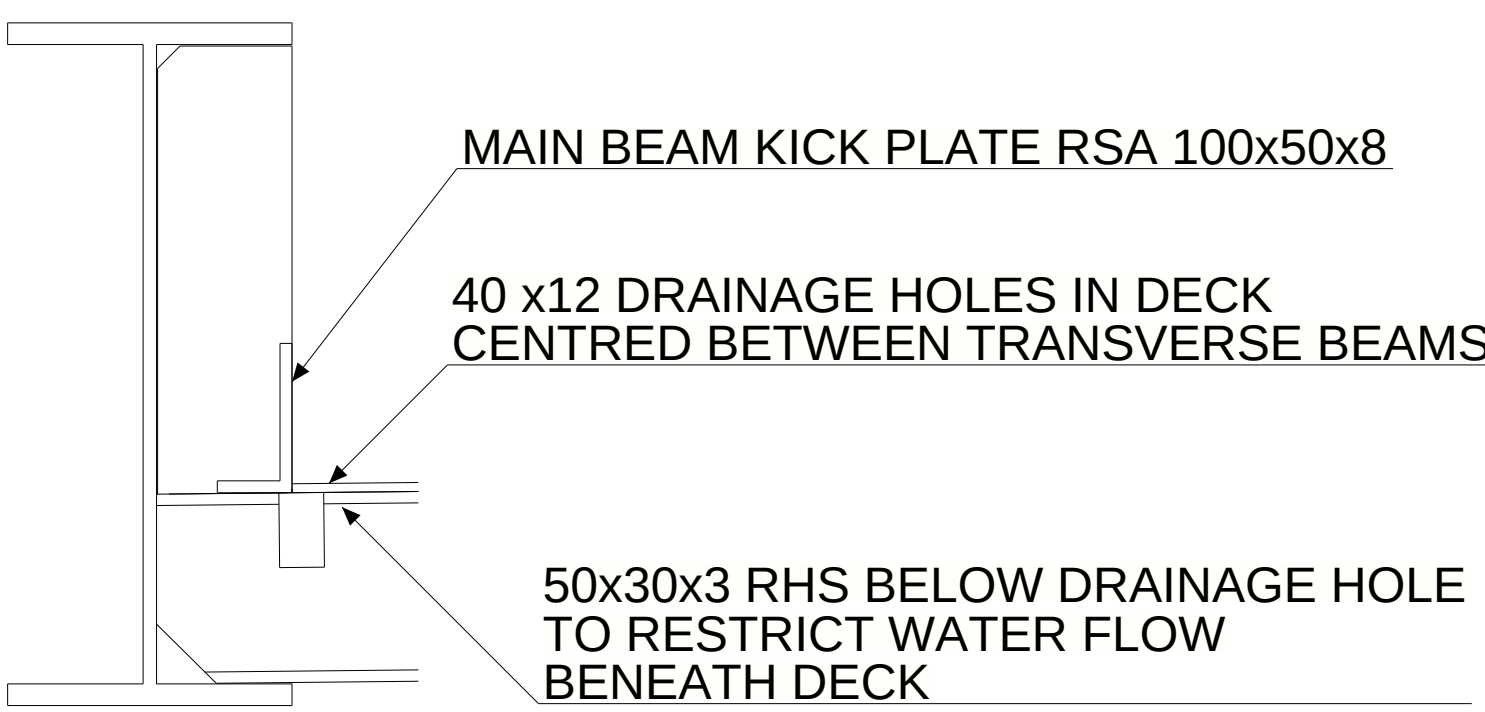
Vertical: Dead - 14 kN
Pedestrian - 23 kN
Wind - ±9 kN

Longitudinal: Temp - 3 kN (fixed + sliding)
Wind - 4 kN (fixed end)
Pedestrian - 5 kN (fixed)

Transverse: Pedestrian - 3 kN
Wind - 8 kN

Deflections at mid-span:

Dead - 28 mm
Live - 45 mm
TOTAL - 73 mm



TYPICAL KICK PLATE DETAIL -DETAIL A SCALE 1:5

GENERAL NOTES:

ALL DIMENSIONS IN MILLIMETRES. ALL LEVELS IN METRES

THIS DRAWING TO BE READ IN CONJUNCTION WITH OTHER SCHEME DRAWINGS IF APPLICABLE

THIS IS A CAD PRODUCED DRAWING AND SHOULD NOT BE AMENDED BY HAND

DO NOT SCALE FROM THIS DRAWING. WORK TO STATED DIMENSION ONLY. IF IN DOUBT ASK

DESIGNER SHALL PROVIDE DESIGN CHECK CERTIFICATES TO **BD 0212**

DESIGN: (REFER TO BRIDGE DESIGN SPECIFICATION DOC. REF: BB1318-SP-001)

GEOMETRY: (BASIS OF DESIGN AS PER BS EN 1990)

BRIDGE LENGTH = 18m

CLEAR WIDTH = 1.0m

HANDRAIL HEIGHT = 1.15m (Minimum)

OVERALL BRIDGE WEIGHT = 5350kg

LOADING: AS PER BS EN 1991.

RESISTANCE AS PER BS EN 1992.

LIVE LOAD (UDL): 5.0 kN/m²

DYNAMIC LOADING ASSUMED AS BRIDGE CLASS A

ACCELERATION = 1.64 m/s²

LIMIT = 1.76 m/s

FUNDAMENTAL FREQUENCY = 3.17 Hz

PARAPET DESIGNED TO BS7818 CLASS1 WITH CLASS A INFILL

STRUCTURE:

ALL WELDS TO BE FREE FROM SHARP EDGES

ALL PROPRIETARY PRODUCTS TO BE APPLIED STRICTLY IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS

ALL METAL PARTS MUST BE MADE FROM MINIMUM GRADE **S275 J0** U.N.O.

EXECUTION CLASS - **EXC2** DESIGN IN ACCORDANCE WITH **BS EN990**

ALL STEEL TO **BS EN 10025-2:2004**

ALL WELDS TO **BS EN 1011-1:2009**

ALL METAL PARTS TO COATED WITH **N1 PAINT SYSTEM** FINISH COLOUR TBC

ALL BOLTS TO BE MINIMUM GRADE 8.8 U.N.O AND GALVANIZED U.N.O.

CDM NOTES:

CDM NOTES ARE PROVIDED TO ASSIST THE PRINCIPAL CONTRACTOR TO FULFIL THEIR OBLIGATIONS UNDER THE CONSTRUCTION DESIGN & MANAGEMENT REGULATIONS 2015. IT DOES NOT INCLUDE RESIDUAL RISK THAT A COMPETENT CONTRACTOR WILL BE AWARE OF NOR DOES IT ABSOLVE THE PRINCIPAL CONTRACTOR OF HIS LEGAL RESPONSIBILITIES

FOR FURTHER HAZARDS AND RISK INFORMATION, REFER TO PROJECT RISK ASSESSMENT: **BB1318 - DRA**

CDM KEY:

- INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION
- CONVEYS INFORMATION ABOUT A RESIDUAL RISK
- INDICATES A RESIDUAL RISK REQUIRING A SPECIFIC ACTION TO BE AVOIDED
- WARNS OF A RESIDUAL RISK OR INFORMATION THAT IS UNUSUAL AND CANNOT BE DESIGNED OUT

OTHER NOTES:

G	NOTES UPDATED FOR CONSTRUCTION	LJ	RH	26.01.2020
F	SURFACE DETAIL UPDATED FOR CONSTRUCTION	LJ	RH	09.01.2020
E	CROSS FALL ADDED & PARAPETS MOVED TO REMOVE STEP	LJ	RH	16.12.2019
D	PARAPET DESIGN RISK NOTE	SH	JL	03.12.2019
C	PARAPET DESIGN CHANGE	SH	KW	24.06.2019
B	BRIDGE STRUCTURE CHANGE PRELIMINARY ISSUE	**	KW	31.05.2019
A	INFILL PANEL FIXING CHANGE	**	KW	20.05.2019
REV	DESCRIPTION	CHKD	BY	DATE

Beaver Bridges Ltd
5 Knights Court,
Archers Way,
Battelfield Enterprise Park,
Shrewsbury SY1 3CA
Tel: 01743 811 811



Client
J.MURPHY & SONS LTD

Project Name
DUDDLESTONE FOOTBRIDGE

Drawing Title
GENERAL ARRANGEMENT

Start Date 25.06.2019	Drawn JL	Designed KW	Checked SH	Scale VARIES
Drawing Status				Page Size A0
Drawing No BB1318-GA-001				Rev G