



- General notes:**  
(These notes apply to all steelwork unless indicated otherwise)
- Execution:**
- Annotations:**  
All dimensions are shown in millimeters.  
All welds dimensions given are throat size (a = ...)  
Steel work dimensions shown are specified for a mean temperature of 12°C.  
C.O.G. = Center of gravity  
Weight is indicated, in metric tons, for each assembled girder.
  - Steel quality:**  
Structural steel grades in accordance with BS EN 10025-5  
Steelwork shall comply with BS EN 1090-2 for Execution class EXC3 and fatigue service category F56  
Steel grade for structural steel bridge girders, stiffeners and bracings): S355J2W/N  
Steel grade for fitting lugs or temporary fixing cleats that remain permanent: S355J2W/N  
Shear studs: Type SD1 S235J2+C450 Ø19mm x 175mm to BS EN ISO 15918  
Through thickness z-quality as indicated on the drawings
  - Construction elements:**  
Cope holes must be located at the positions shown and will be a minimum of 50mm radius or 1.5 x plate thickness  
Weathering steel: do not make notes or indications on the steel  
Steel blasted to Sa2 after welding in workshop
  - Welds:**  
All welds are to be continuous and form a continuous seal.  
All welds are indicated. Seams not to be welded are stated explicitly.  
Grinding: see welding catalogue 2473-S05A-VBSC-DR-3025 & 2473-S05A-VBSC-DR-3026 and grinding plan 2473-S05A-VBSC-DR-3027  
Quality level for imperfections for EXC3: EN ISO 5817 level B  
Note 1: deep penetration fillet weld a-z according to BS EN 993-1-8 cl.4.5.2.3 (Figure 1)
  - Bolted assemblies:**  
Preloaded high strength friction grip bolts  
1x Bolt grade 10.9 according to BS EN 14399-10, TCB Bolts, type HRC  
1x Nut according to BS EN 14399-10  
1x Washers according to BS EN 14399-6  
Where oversize holes are specified an additional hard round washer needs to be used under the bolt head according to BS EN ISO 7093  
Non-preloaded bolts  
Bolt assembly according to BS EN 15048, grade 8.8  
1x Bolt according to BS EN 4017  
1x Nut according to BS EN 4032  
2x Washers according to BS EN 7089  
+ locking device according to DIN 7967
- Erection:**
- Annotations:**  
All dimensions are shown in millimeters.  
All welds dimensions given are throat size (a = ...)  
C.O.G. = Center of gravity  
Weight in metric tons
  - Steel quality:**  
Indicated specifically for each element in accordance with BS EN 10025-5  
Through thickness z-quality indicated specifically for each element
  - Welds:**  
All welds are to be continuous and form a continuous seal.  
All welds are indicated. Seams not to be welded are stated explicitly.  
Quality level for imperfections for EXC3: EN ISO 5817 level B.
  - Bolted assemblies:**  
Erection equipment:  
Bolted assembly according to BS EN ISO 15048  
Bolt according to BS EN ISO 4017  
Nut according to BS EN ISO 4032  
Additional for fitting lugs and temporary connections:  
Washer according to BS EN ISO 7089 underneath the rotated part (nut or head)

0	14.04.2020	MWA	AS	AS	Issued For Acceptance
Issue:	Date:	By:	Checked:	Approved:	Description:
Project:	A6 DUNGIVEN				Dossier No.:
Main part:	S05A BRIDGE				2473-17
Part:	GENERAL ARRANGEMENT				Format:
Title:	TOP VIEW AND SECTIONS				841 x 1189
Datum:	16.03.2020	Nam:	MWA	Scale:	1:10 1:30 1:100
Design:	16.03.2020	MWA		Drawing No.:	2473-S05A-VBSC-DR-3021
Approved:	16.03.2020			Rev:	0