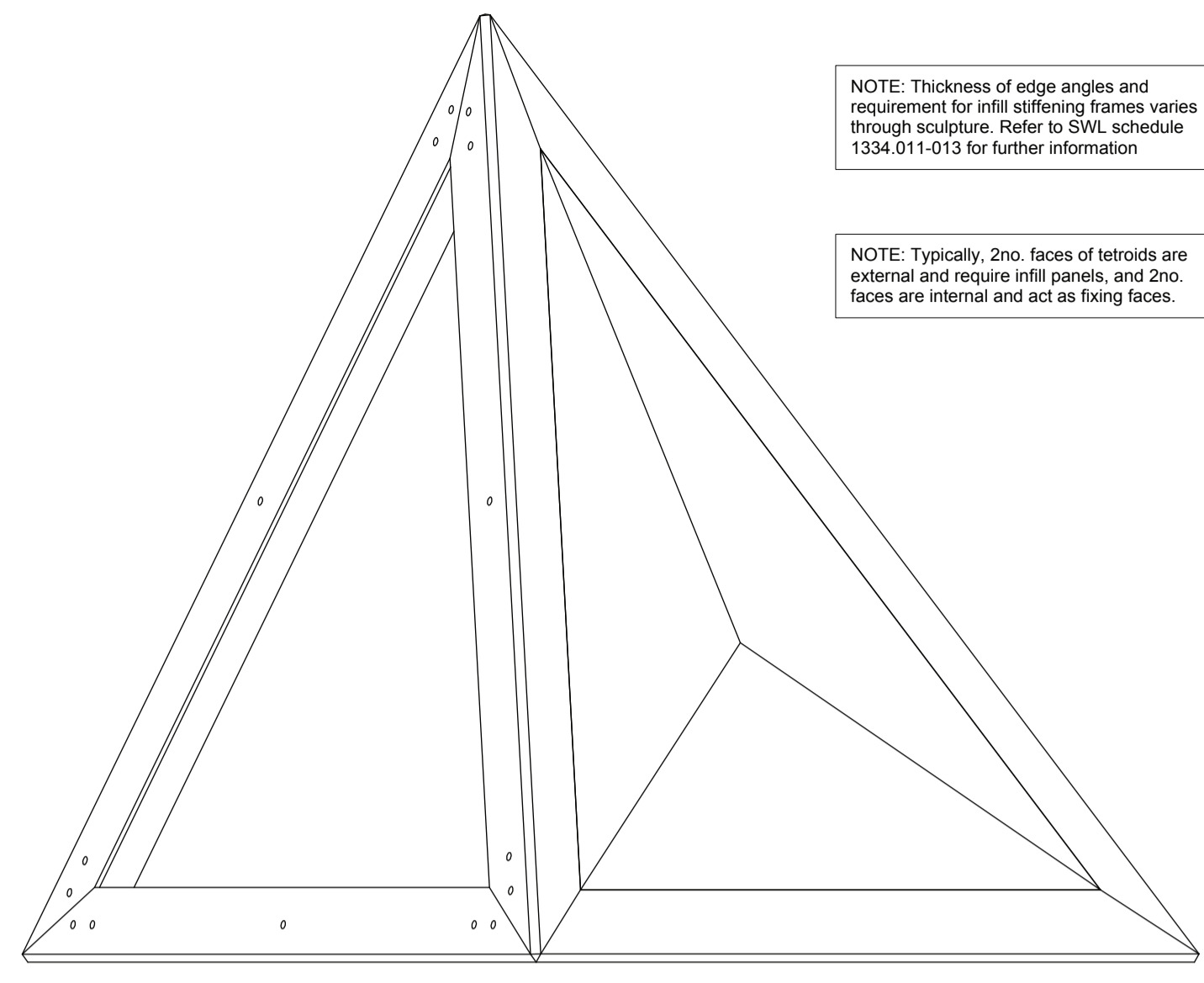


NOTES:
 This drawing is to be read in conjunction with all other Architects and Engineers drawings, details and specifications.
 Any discrepancies in the arrangement and details discovered on site, or otherwise, are to be reported to the Architect or Engineer immediately.
 All dimensions in mm.
 Do not scale from this drawing. Setting out to Architect's details.

NOTE: Thickness of edge angles and requirement for infill stiffening frames varies through sculpture. Refer to SWL schedule 1334.011-013 for further information

NOTE: Typically, 2no. faces of tetroids are external and require infill panels; and 2no. faces are internal and act as fixing faces.



TET 16 - TYPICAL 20THK. TETROID
 1:25

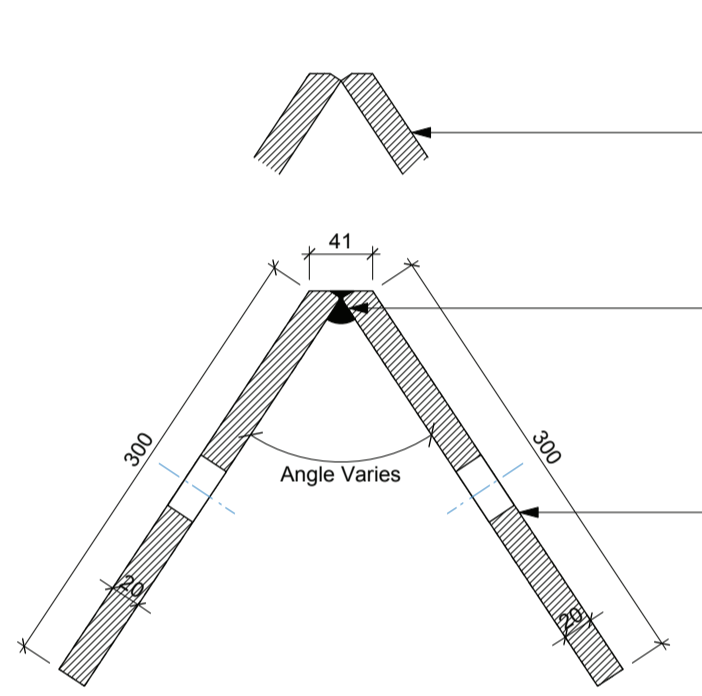
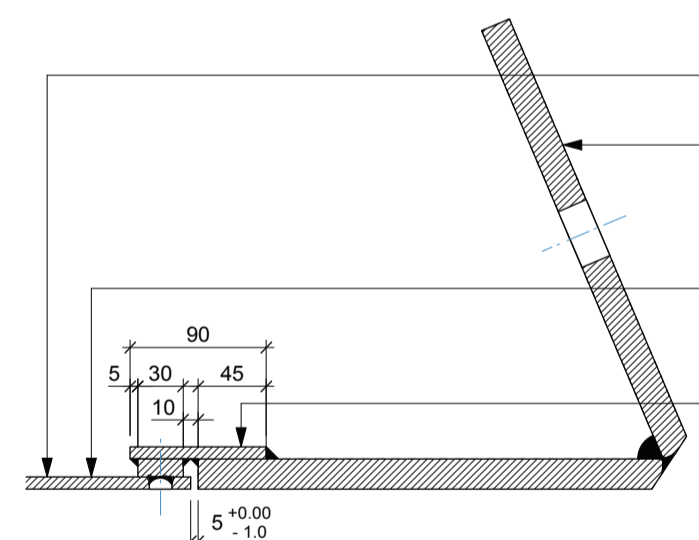


Plate arrangement prior to welding. Edges profiled to maintain same chamfer width through different plate thicknesses. Angle of profile varies due to 6no. different edge angles

Weld to be full penetration layed from inside of tet and burnt through to outside. Outside edge ground back smooth

Flange for bolted connection. Tets fixed together using grade A4-80 SS M36 bolts

DETAIL 01
 1:5



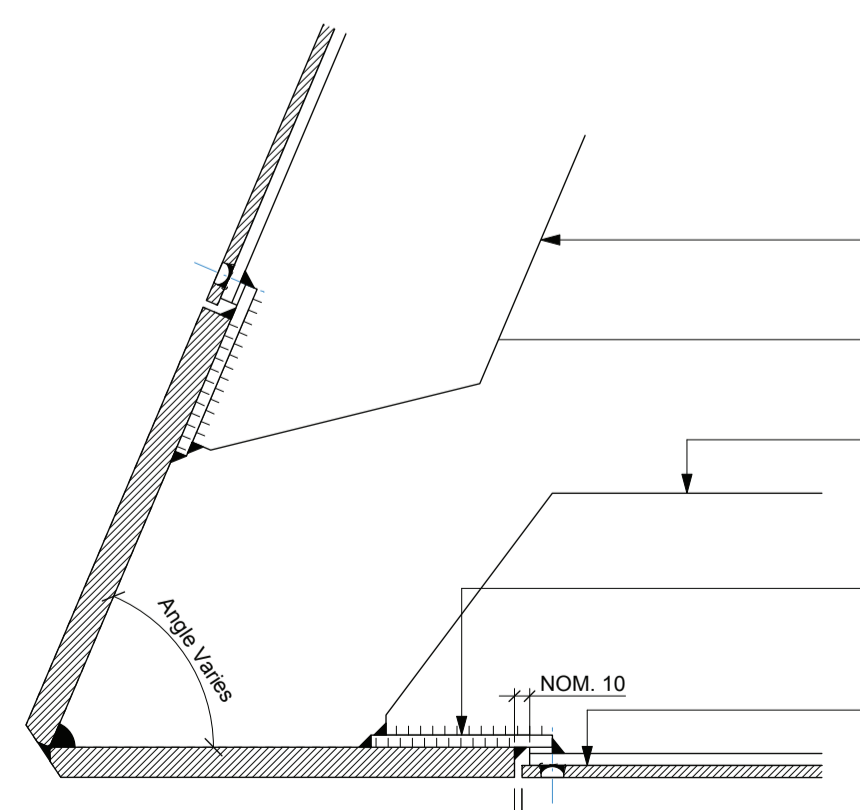
8thk. infill plate with 5mm shadow gap around perimeter

20thk. edge angle fabricated as above

Infill panels fixed to stiffening angles with Ø15 concave plug welds (5 fpw around diameter of hole) @ 100 crs. all round

90 x 8 thk. backing plate stitch welded to edge angle top and bottom with 30 x 12thk packer to provide continuous fixing for infill panels

DETAIL 02
 1:5



Adjacent exposed face to be assembled in similar manner

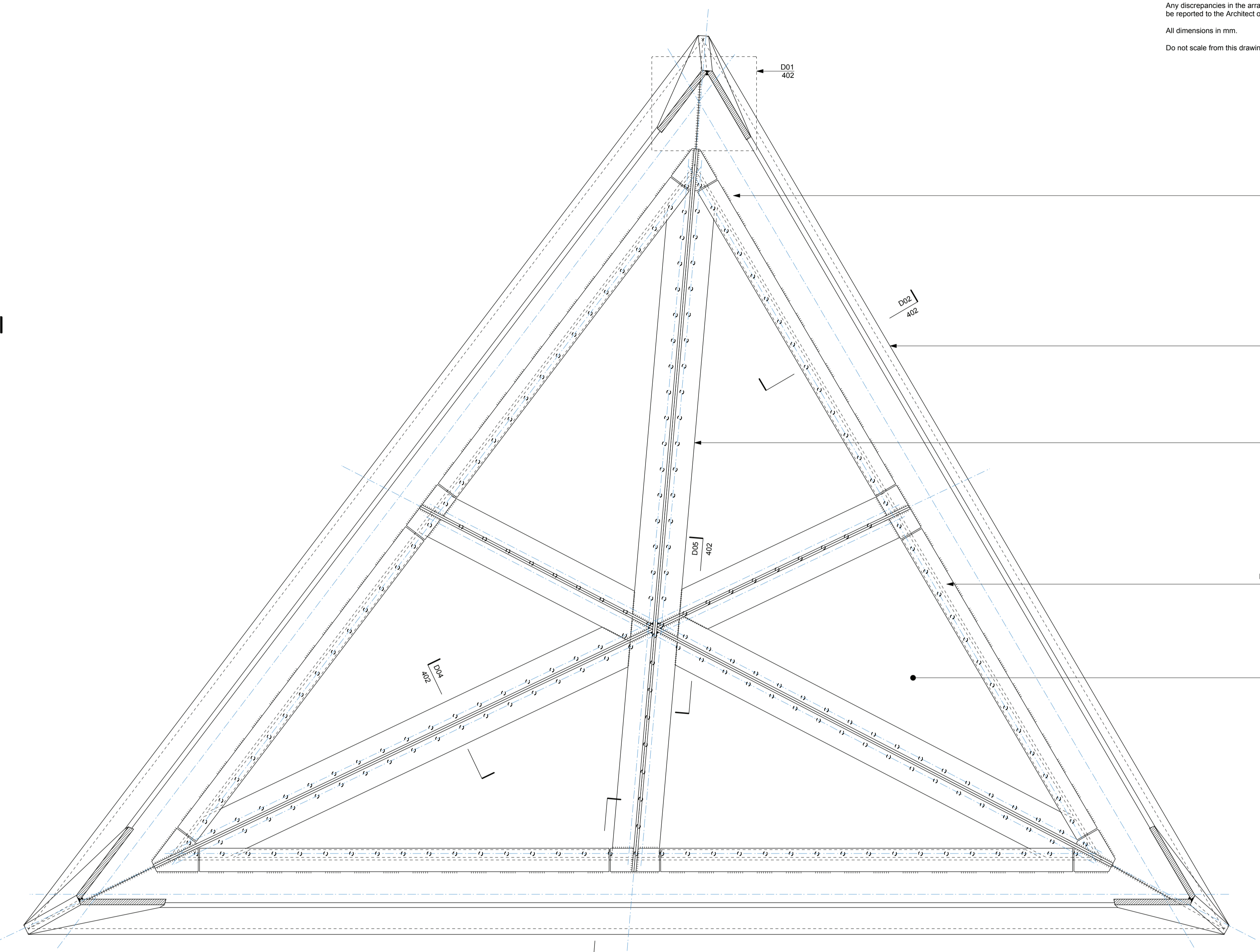
20thk. edge angle fabricated as above

Stitch welded back-to-back stainless steel 180 x 90 x 8 UA forming subframe

Stiffening angles welded to edge angle. Flanges cut back at ends and 8 thk. plate used to achieve flush external face. Allow space for welding from all sides

Infill panels fixed to stiffening angles with Ø15 concave plug welds (5 fpw around diameter of hole) @ 100 crs. all round

DETAIL 03
 1:5



SECTION A-A
 1:10

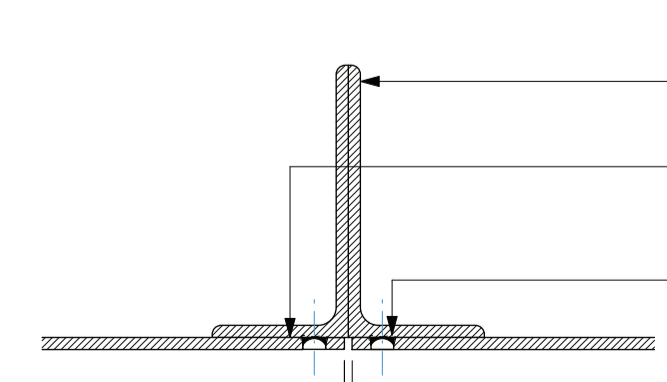
Ends of all subframe members fixed to be stitch welded to edge angle to minimise distortion

Main structural frame of tetroid formed in 300 wide x 20thk. stainless steel plate fully welded to form edge angles

Stiffening to infill plate achieved using fully welded sub-frame comprising stitch welded back-to-back stainless steel 180 x 90 x 8 UAs

90 x 8 thk. SS backing plate with packer stitch welded between subframe connections

8thk. infill panels behind

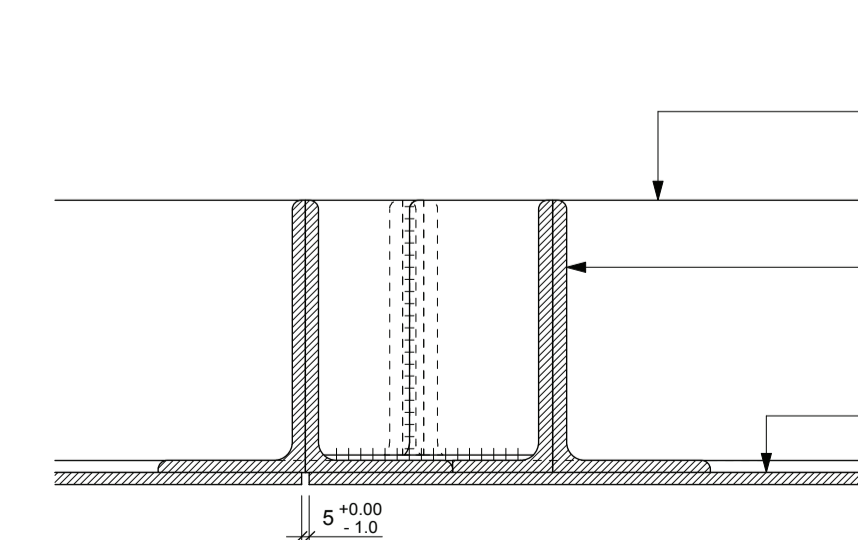


DETAIL 04
 1:5

Stitch welded back-to-back stainless steel 180 x 90 x 8 UA forming stiffeners to infill panels

8thk. infill plate with 5mm shadow gap around perimeter

Infill panels fixed to stiffening angles with Ø15 concave plug welds (5 fpw around diameter of hole) @ 100 crs. all round



DETAIL 05
 1:5

Continuous stitch welded back-to-back stainless steel 180 x 90 x 8 UA forming stiffeners to infill panels running through central junction

Cut back flanges of stiffening angles and run webs to central point. Full perimeter fillet welds required all round to form fully welded junction

Infill panels fixed to stiffening angles with plug welds

© RESERVED

TENDER

STRUCTURE WORKSHOP
 Engineering & Technical Design
 4 Iliffe Yard London SE17 3QA
 020 7701 2414
 020 7701 2597
 www.structureworkshop.co.uk

rev.	description	date
T1	Scheme revised. Issued for Tender	09.07.14
P1	First issue	04.03.14

project	Conrad Shawcross Paradigm at The Francis Crick Institute	scale	#25,1:10,1:5@A1
drawn	CB	app.	PL
title	Typical Details	dig. no.	1334.402
		rev.	T1