

KEY

R Ends shaded **red**: metalwork with uneven surface caused by flame cutting during dismantling. Original metal lost from each side of cut, to be reinstated by welding on splice pieces of new metalwork (adopting already agreed details) to correct geometry for reassembly.

G New welding tabs shaded **green**: steel plates around 200mm long × varying widths (40mm to 100mm to suit width and geometry of historic metalwork) × 10mm thick (approximately equal to the thickness of historic metalwork), permanently attached to the historic metalwork by welding. Installed to ensure correct realignment and required strength of the connection is achieved.

Permanent tabs to be fitted to the least visible faces: a) internal faces of angle-irons forming lattice girder columns; b) inward facing faces of T-section braces. Additional temporary tabs may need to be installed on outer faces using existing rivet holes where rivets removed (refer to item **B**); temporary tabs removed once welded connection fully formed.

B Diagonal braces shaded **blue**: may need to be removed to allow fitting of welding tabs (**green**, refer to item **G**). Existing rivets removed by cutting or drilling. Once welded connection fully formed, diagonal braces renovated and reinstated using TCB bolts (adopting already agreed details).

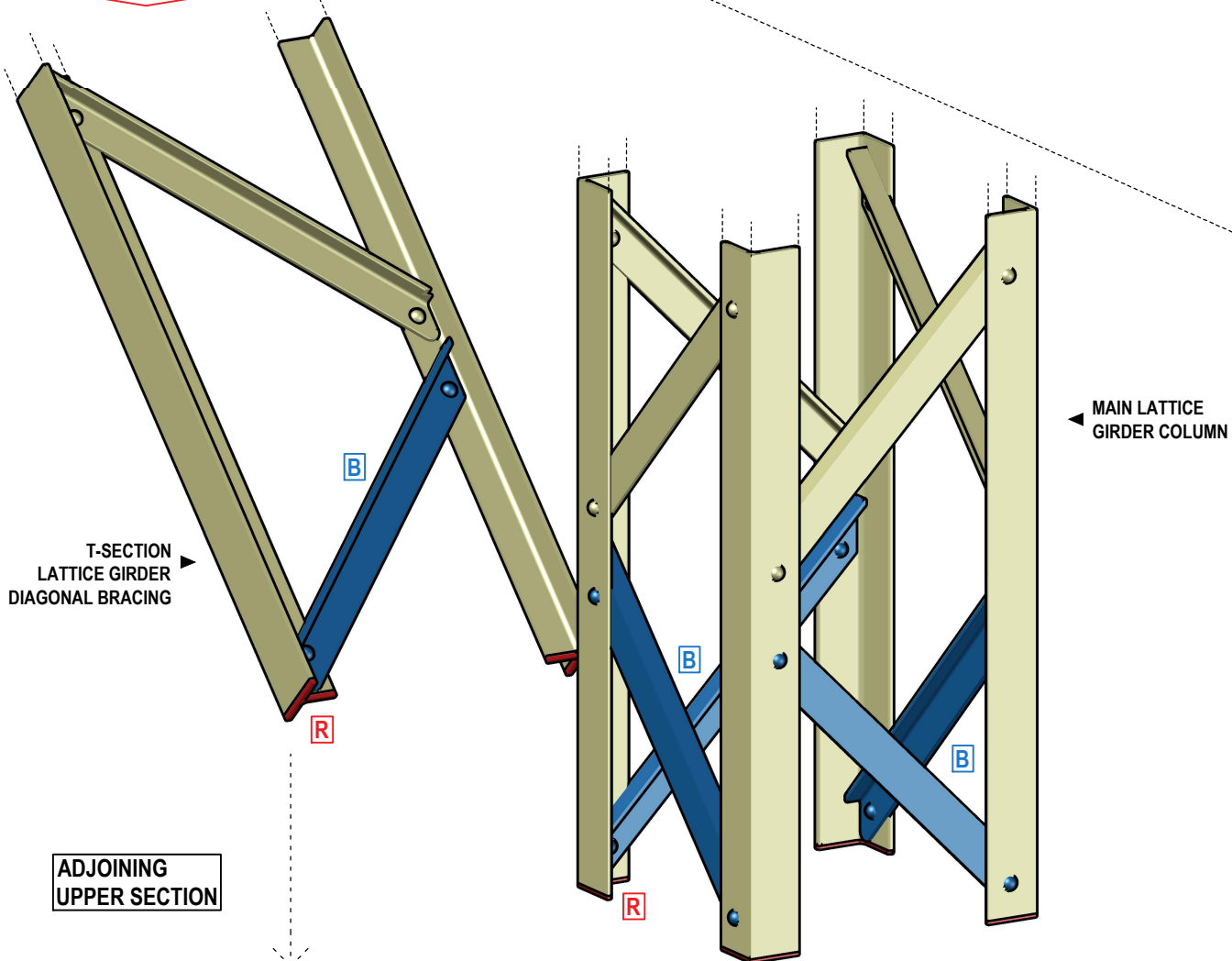
NOTES

The structural arrangement shown is indicative: it may not depict every as-dismantled arrangement of the structure and is intended to illustrate and identify the range of structural elements likely to be affected by the works to reassemble the main dismantled sections by welding. It may not be necessary to install all the welding tabs shown or remove all the diagonal braces shown.

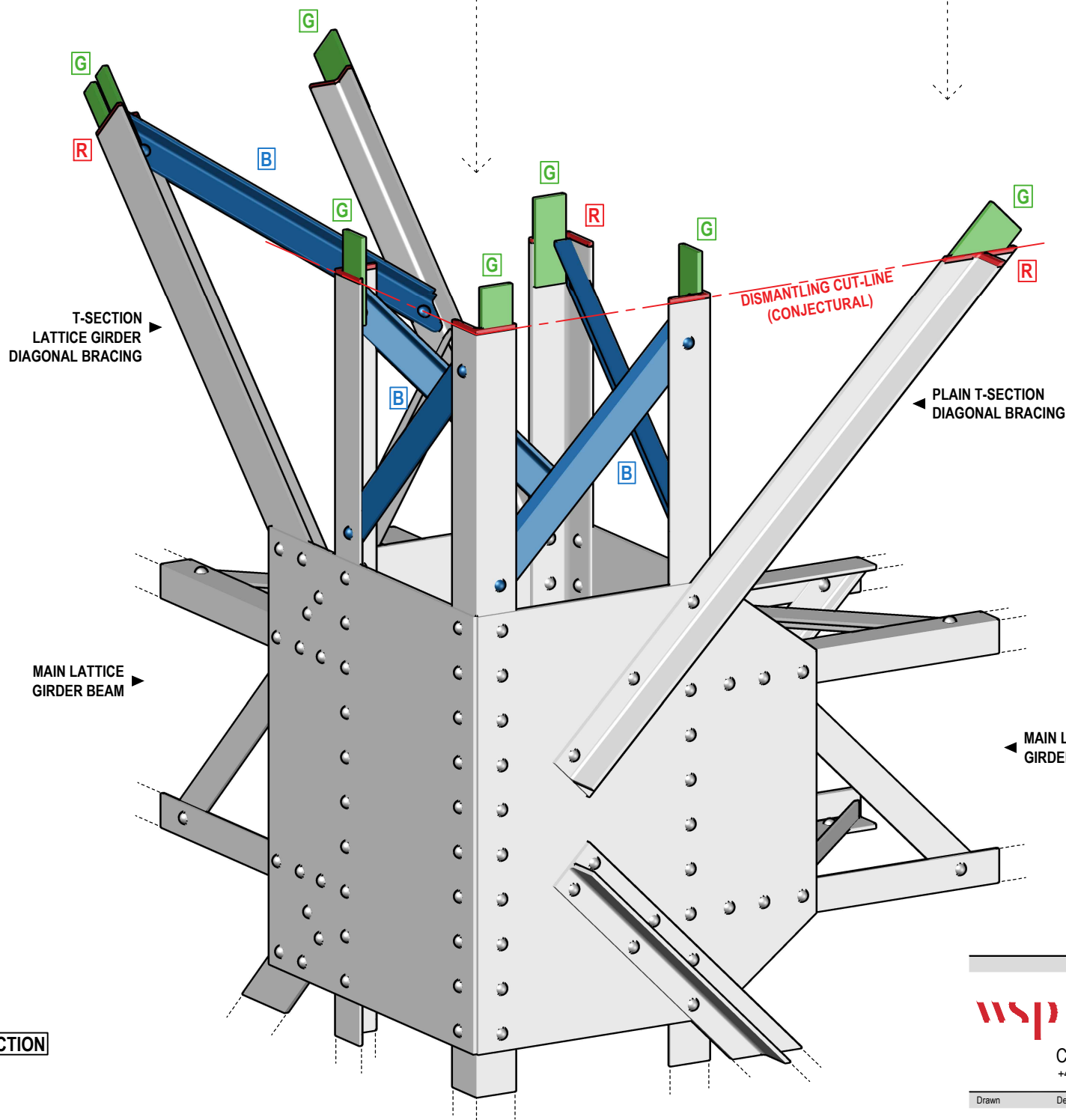
The works will be undertaken in accordance with the principles presented in these detail and other repair and renovation details already granted Listed Building Consent, the primary principle being to retain as much historic metalwork as possible and reduce the visual and material impact of modern intervention as much as possible.

300 mm
250
200
150
100
50
10 mm
0

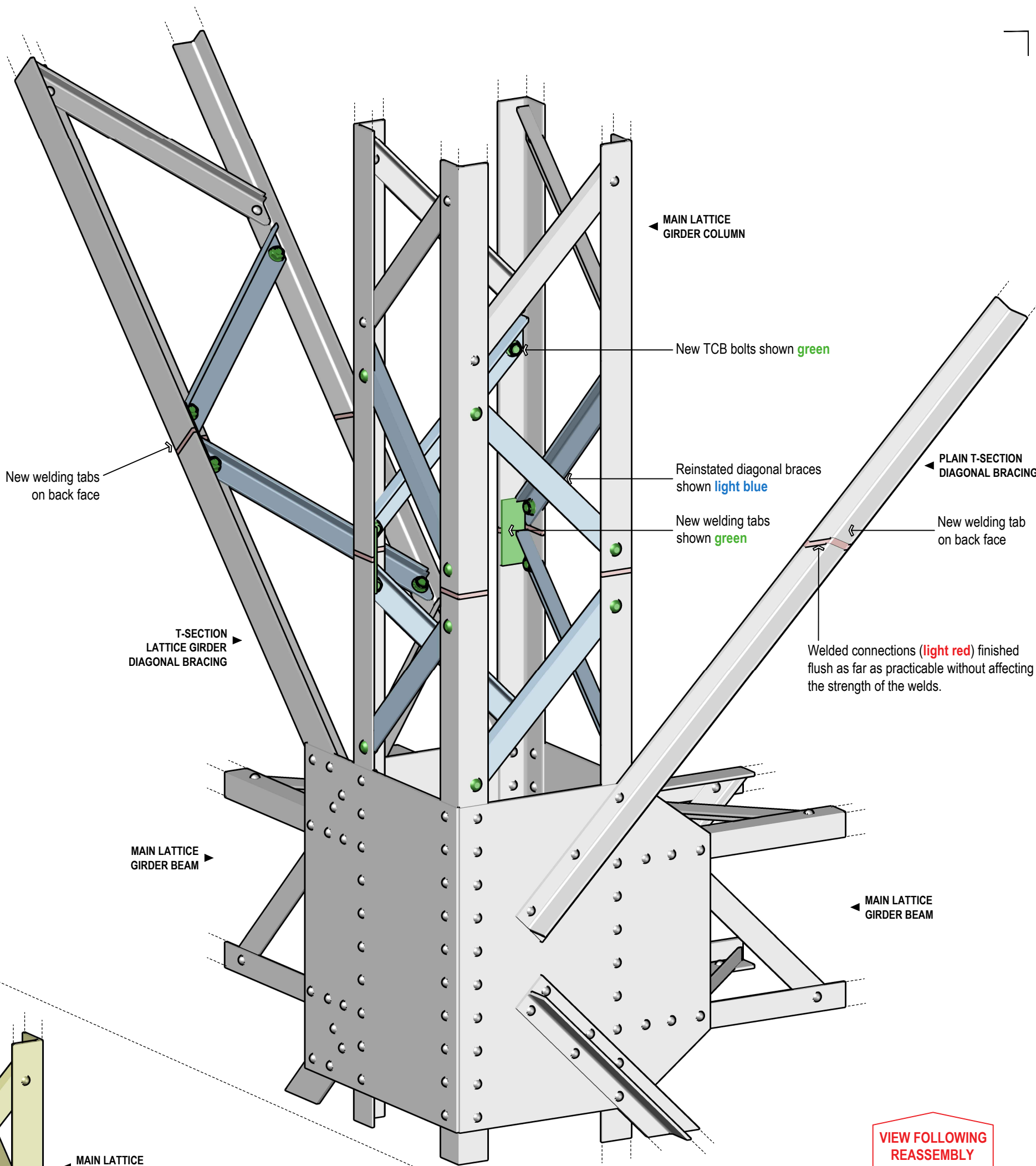
VIEW PRIOR TO REASSEMBLY



ADJOINING UPPER SECTION



LOWER SECTION



VIEW FOLLOWING REASSEMBLY

For LBC variation approval

Project				Sheet	
Cefn Coed Colliery Museum Renovation of two Grade II* Listed headgear frames				Repair detail J - Welded joints for reassembly to be read in conjunction with Repiar Schedule documents	
Drawn	Designed	Approved	Revision Date	Project No.	Revision
A Swan	A Swan		13/08/2019	V-C8458.60	
Cardiff Office +44 29 2076 9200		1 Capital Quarter, Tyndall Street, Cardiff CF10 4BZ		Scale	
				Not to scale	
				Drawing No.	
				CD-V-C8458.60	
				Sheet No.	
				103	
				R1	