

## Method Statement of Repair to Stonework

### Crack Repair

Take record photos of area of repair to record positioning of stones and/or number stones as necessary. Rake down all stone work joints adjacent to crack in wall. Locally take down stonework either side of crack and set aside. Rebuild wall using set aside stones in original positions where possible and re-stitch stonework. Re-point joints using a lime putty mix to match the original. Works are to be completed by a suitably qualified stone mason.

### Timber Roof Replacement

The condition of the existing roof timbers is subject to a further inspection by a timber specialist to investigate and determine the extent and presence of any insect infestation. Whilst it is clear that a number of timber roofs have deteriorated resulting in a loss of structural integrity it is less clear the extent of deterioration as a result of possible worm attack.

All timbers will need to be cleaned and examined by a timber specialist. The full extent of timbers to be replaced will subsequently be identified. The existing roof slates will need to be carefully taken off and set aside for re-use. It is a generally accepted rule of thumb (which will vary from site to site) that approximately 50% of the original slates can be saved for re-use and therefore, replacement slates will need to be sourced on a like for like basis.

The condemned roof timbers comprising of the rafters, purlins and king-post trusses are to be carefully removed. It is likely that the timber wall plate will need to be replaced which is also likely to incorporate the removal of loose material from the top of the wall to enable re-setting of new timber wall plate at a constant level.

The new roof timbers need to be replaced on a like for like basis. Refer to King-Post Truss Detail. The king post and purlin timbers need to be oak or similar agreed. It is likely that the new rafters can comprise of engineering grade softwood to be agreed. Scaffold and use of lifting equipment needs to be used in accordance with normal building practice.

### General Stone Repair and Re-pointing

The existing stone walls need to be washed down and all mortar joints need to be raked out, removing all loose material. All loose stonework needs to be removed and set aside for re-use. Stones need to be repositioned in original locations where possible. An approved lime putty mix needs to be used and agreed for re-setting of loose stones and for pointing. Works are to be completed by a suitably qualified stone mason.

14 008 70 LBC

RECEIVED

18 JUL 2014

ENVIRONMENTAL  
AND ECONOMIC  
REGENERATION

**Method Statement of Repair to Stonework**

**Crack Repair**

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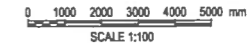
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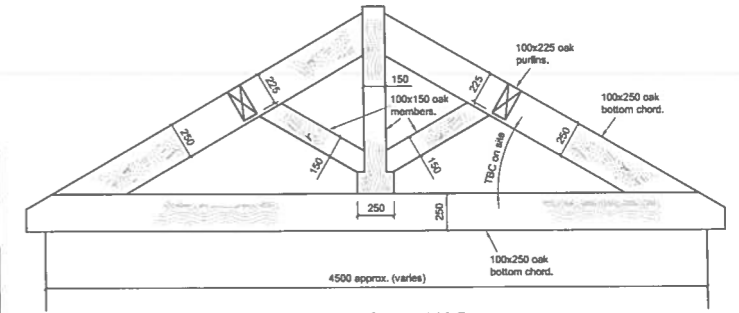
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**General Stone Repair and Re-pointing**

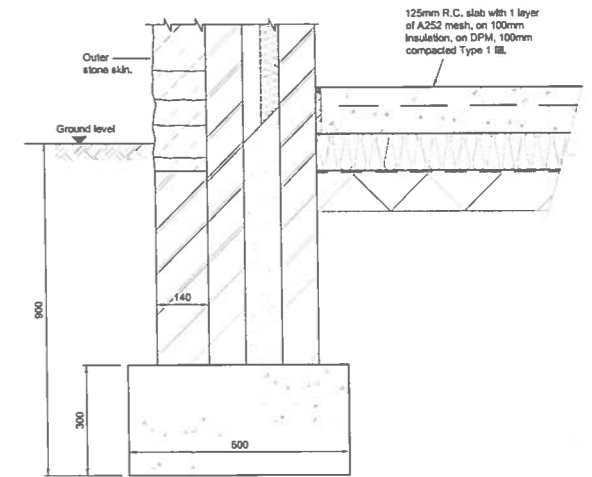
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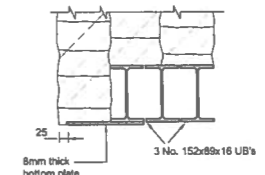
- NOTES**
- All dimensions are in millimetres unless noted otherwise.
  - All levels are shown in metres unless noted otherwise.
  - Do not scale from the drawing. Use figured dimensions only.
  - Any discrepancies to be reported immediately to the engineer.
  - This drawing is to be read in conjunction with all relevant Architects, engineers, subcontractors and specialists drawings and specifications.



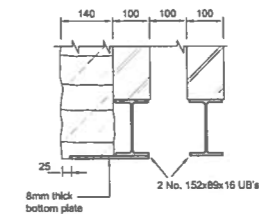
**KING POST TRUSS**  
Scale 1:25



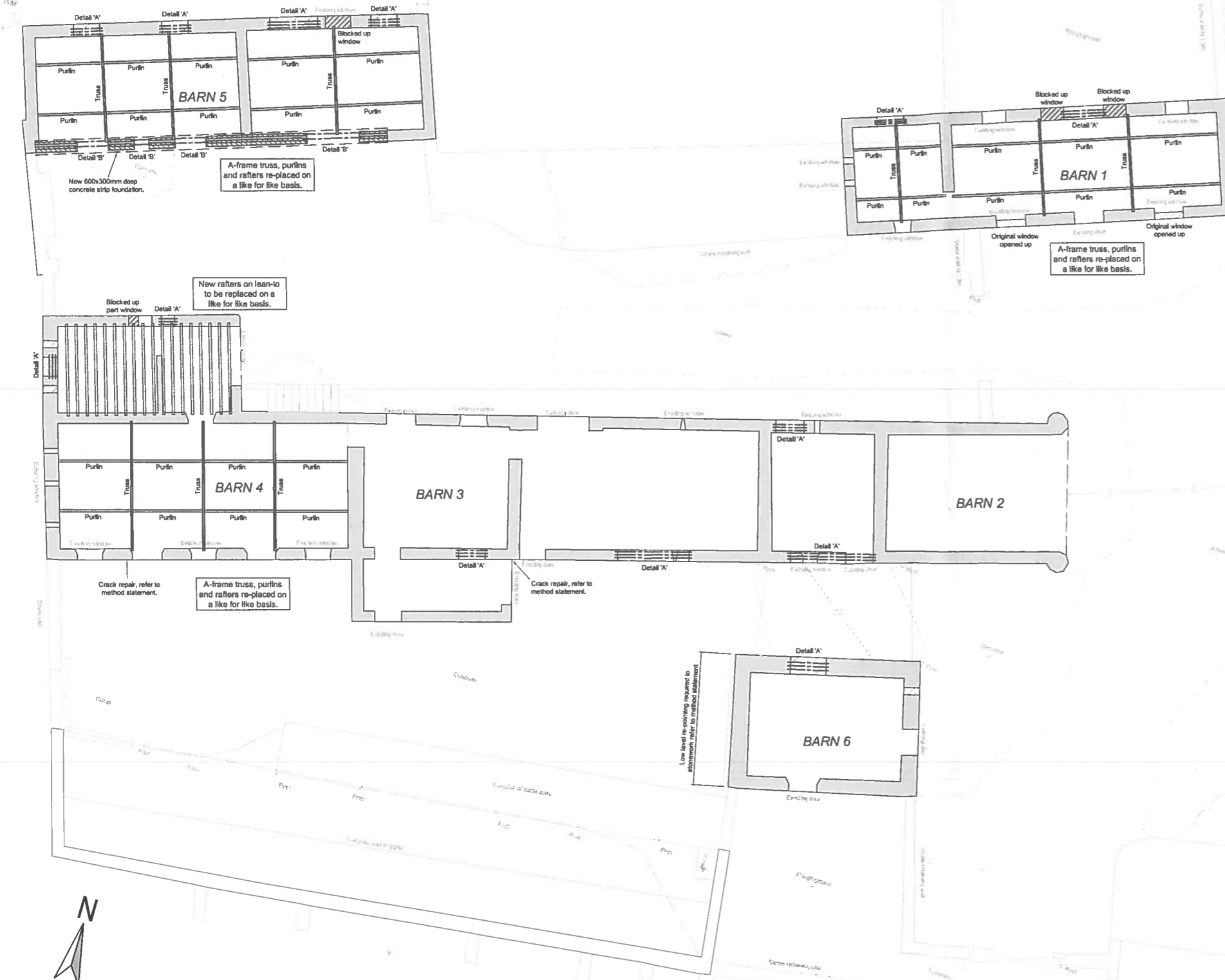
**PROPOSED WALL & FOUNDATION**  
Scale 1:10



**DETAIL 'A'**  
Scale 1:10



**DETAIL 'B'**  
Scale 1:10



| rev. | drawn | checked | approved | description |
|------|-------|---------|----------|-------------|
| 1    | J.S   | M.J     | M.J      |             |

Client  
**HARMERS**

Project  
**WEST ABERTHAW BARNs  
ABERTHAW**

Title  
**GROUND FLOOR PLAN**

CONSULTING ENGINEERS  
**VALE CONSULTANCY**  
Maple House,  
Greenwood Close,  
Cardiff Gate Business Park,  
Cardiff, CF23 8RD.  
Tel: 029 20735050  
Fax: 029 20735059  
www.vale-consultancy.co.uk  
enquiries@vale-consultancy.co.uk

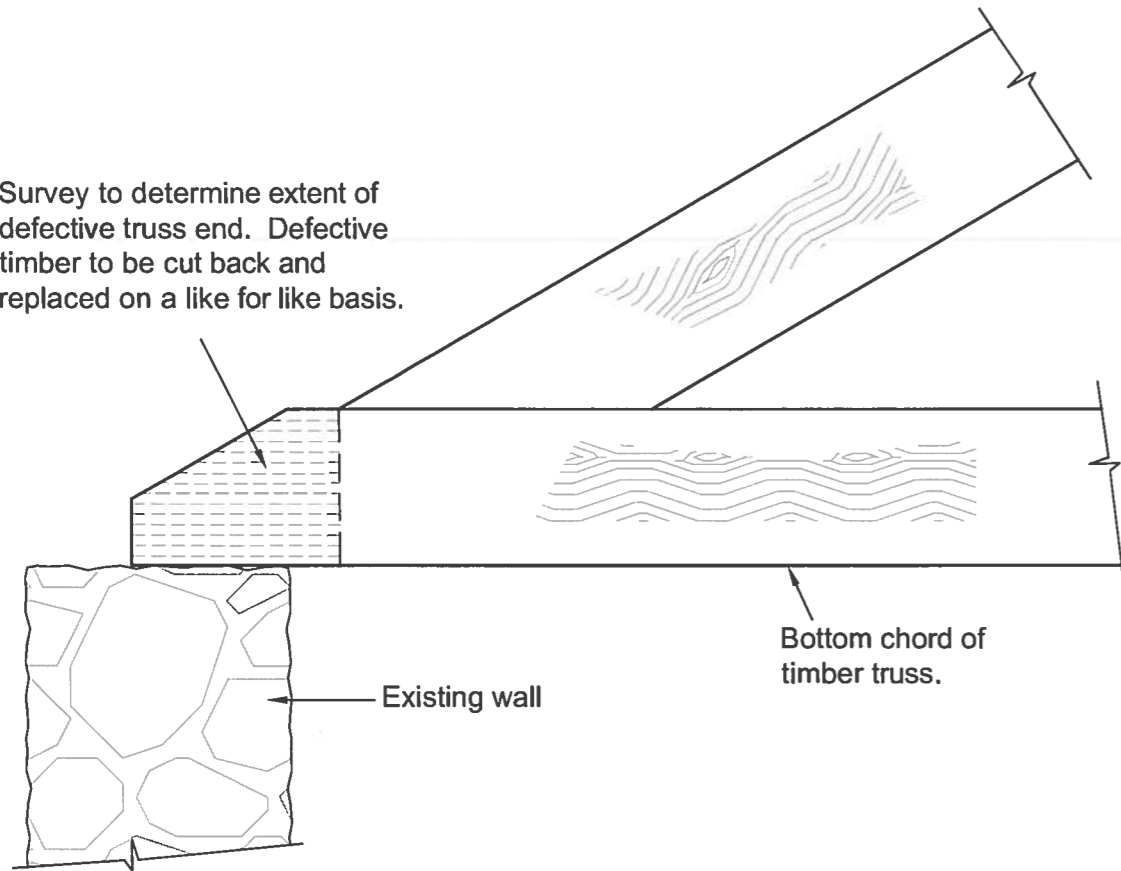
| date     | drawn | checked | approved |
|----------|-------|---------|----------|
| 20.01.12 | J.S   | M.J     | M.J      |

Scale @ A1  
1:100

| status | orig. no. | rev. |
|--------|-----------|------|
|        | 2331 - 01 |      |

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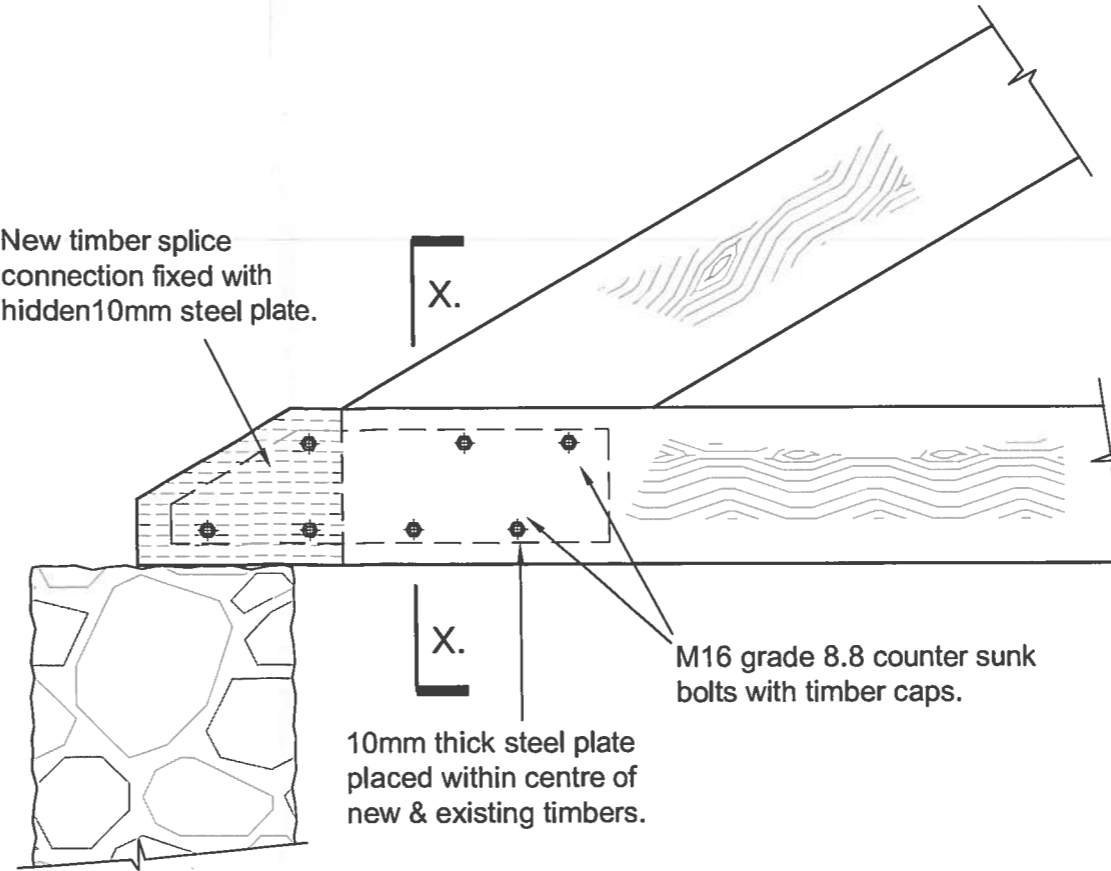
Survey to determine extent of defective truss end. Defective timber to be cut back and replaced on a like for like basis.



### EXISTING TRUSS RAFTER END

Scale 1:20

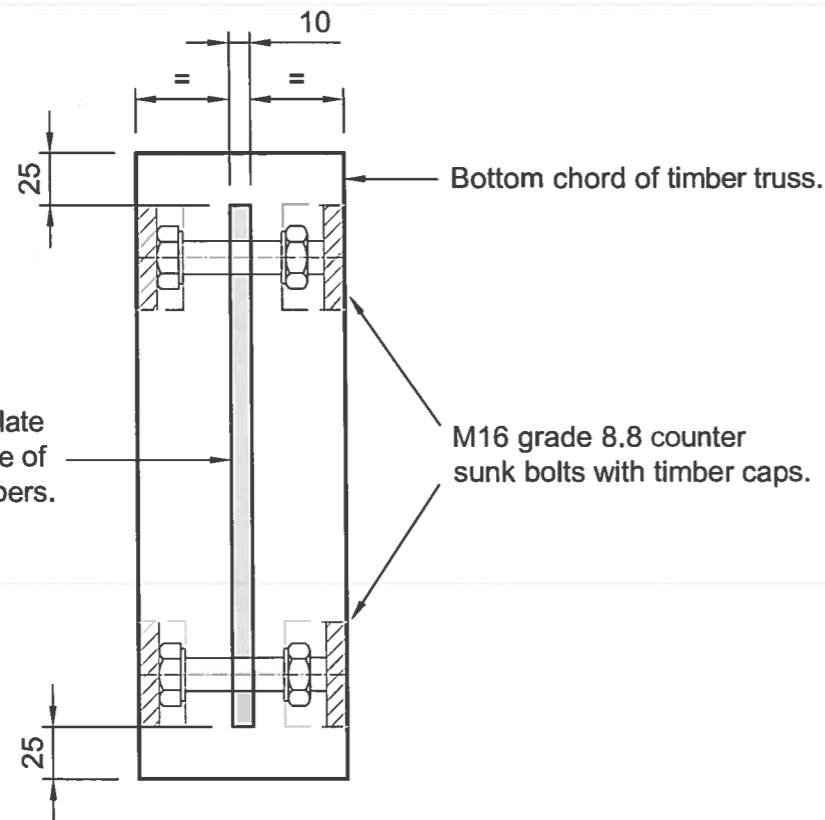
New timber splice connection fixed with hidden 10mm steel plate.



### EXISTING TRUSS RAFTER END WITH NEW SPLICE CONNECTION

Scale 1:20

10mm thick steel plate placed within centre of new & existing timbers.



### SECTION X. - X.

Scale 1:5

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14 008 70 LBC

| rev.   | drawn     | chkd.   | apprvd.  | date | description |
|--|-----------|---------|----------|------|-------------|
|  |           |         |          |      |             |
| Client<br>HARMERS  |           |         |          |      |             |
| Project<br>WEST ABERTHAW BARNES<br>ABERTHAW  |           |         |          |      |             |
| Title<br>TYPICAL TRUSS END SPLICE CONNECTION   |           |         |          |      |             |
| <b>VALE CONSULTANCY</b><br>CONSULTING ENGINEERS<br>Maple House,<br>Greenwood Close,<br>Cardiff Gate Business Park,<br>Cardiff. CF23 8RD.<br>Tel: 029 20735050<br>Fax: 029 20735059<br><a href="http://www.vale-consultancy.co.uk">www.vale-consultancy.co.uk</a><br><a href="mailto:enquiries@vale-consultancy.co.uk">enquiries@vale-consultancy.co.uk</a> |           |         |          |      |             |
| date   | drawn     | checked | approved |      |             |
| 26.06.12   | J.S       | M.J     | M.J      | M.J  | M.J         |
| scale @ A4<br>1:20, 1:5  |           |         |          |      |             |
| status   | drg. no.  | rev.    |          |      |             |
|  | 2331 - 03 |         |          |      |             |