Introduction to A3 Construction Detail Drawing

No.1 Strip Foundation Detail
No.2 Raft Foundation Detail

Key skills needed for Mandatory Exam Paper Question 1!!!
No.1 Strip Foundation Detail - First Steps

1. Set up your page by lining up your T-Square with the edge of the page.
2. Use masking tape to ensure your page is stuck to the table.
3. Draw a horizontal line 10mm from the bottom of the page.
4. Draw another horizontal line from the top of the page 10mm down from the edge of the page.
5. Draw a vertical line 10 mm from the left hand side of the page as shown, also repeat the process on the right hand side.
6. From the bottom right hand side draw a box 70mm by 30 mm from the edge of your border you previously created.
7. Divide the box into (3) 10mm equal spacing’s as shown above.
8. Draw a light 5mm line inside each spacing, this is where you will write your name in CAPITAL LETTERS, the name of the page and the date as shown above.
Strip Foundation Detail - Next steps

Step 2

1. Drawing is to scale 1:10, so ensure every measurement you use has been scaled down, i.e., Foundation is 1050 by 350 so remember to scale it down by 10. The measurements you will draw will be 105mm by 35mm.

2. Start your drawing from the left-hand side by measuring up 50mm and across 50mm.

3. Start to draw your foundation 1050 by 350, make sure you put in the actual sizes in the annotation as shown above.
Strip Foundation: Adding External Walls
Strip Foundation: Hardcore and Sand

- Hardcore 150mm
- Radon Barrier
- Sand 50mm

* REMEMBER TO SCALE EVERY MEASUREMENT

350mm External Wall with 100mm Insulated Cavity

STRIP FOUNDATION 10.50 x 350

Scale 1:10

TOMAS CALLANAN
STRIP FOUNDATION
22-9-2015
Strip Foundation: Concrete Floor

- 150mm Concrete Floor
- Insulation 100mm
- hardcore 150mm
- Radon Barrier
- Sand 50mm
- 350mm External Wall with 100mm Insulated Cavity

Scale: 1:10

Dimensions:
- GL 600mm
- 600mm
- 350mm, 100mm gap, 350mm
- 1050mm
- 50mm

Date: 21-9-2015

Design by: Tomas Callanan
Congrats you have completed your first scale drawing well done!!!
Raft Foundation- Similar Set Up

1. Set up your page by lining up your T-Square with the edge of the page.
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4. Draw another horizontal line from the top of the page 10mm down from the edge of the page.
5. Draw a vertical line 10mm from the left hand side of the page as shown, also repeat the process on the right hand side.
6. From the bottom right hand side draw a box 70mm by 30mm from the edge of your border you previously created.
7. Divide the box into (3) 10mm equal spacing’s as shown above.
8. Draw a light 5mm line inside each spacing, this is where you will write your name in CAPITAL LETTERS, the name of the page and the date as shown above.
Position the start of your drawing as shown above.
Since this is our second A3 drawing, neatness and accuracy are key components in marking schemes. From this point onwards do not add any annotation. At the end of the drawing we will add all of the annotation and number each element on the left hand side of our page.
Raft Foundation - Adding Raft
Raft Foundation - Adding External Walls
Raft Foundation-Sand, Radon, Insulation and Screed
Keep the annotation neat and tidy. Separate each line 10mm apart. Don’t forget to number each element accurately. Remember CAPITAL LETTERS!!
<table>
<thead>
<tr>
<th>Strip Foundation</th>
<th></th>
<th>Raft Foundation</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Size of Strip Foundation</td>
<td>Scale 1:10=</td>
<td>Size of Raft Foundation</td>
<td>Scale 1:10=</td>
</tr>
<tr>
<td>Size of Hardcore</td>
<td>Scale 1:10=</td>
<td>Size of Hardcore</td>
<td>Scale 1:10=</td>
</tr>
<tr>
<td>Size of External Wall</td>
<td>Scale 1:10=</td>
<td>Size of External Wall</td>
<td>Scale 1:10=</td>
</tr>
<tr>
<td>Size of Insulation (Ground and Wall)</td>
<td>Scale 1:10=</td>
<td>Size of Insulation (Ground and Wall)</td>
<td>Scale 1:10=</td>
</tr>
<tr>
<td>Size of blockwork</td>
<td>Scale 1:10=</td>
<td>Size of blockwork</td>
<td>Scale 1:10=</td>
</tr>
<tr>
<td>Size of cavity (including insulation)</td>
<td>Scale 1:10=</td>
<td>Size of cavity (including insulation)</td>
<td>Scale 1:10=</td>
</tr>
<tr>
<td>Size of the sand binding</td>
<td>Scale 1:10=</td>
<td>Size of the sand binding</td>
<td>Scale 1:10=</td>
</tr>
<tr>
<td>Size of ground floor</td>
<td>Scale 1:10=</td>
<td>Size of external plaster</td>
<td>Scale 1:10=</td>
</tr>
<tr>
<td>Size of minimum ground line height</td>
<td>Scale 1:10=</td>
<td>Size of internal plaster</td>
<td>Scale 1:10=</td>
</tr>
<tr>
<td>Size of timber floorboards</td>
<td>Scale 1:10=</td>
<td>Size of skirting board</td>
<td>Scale 1:10=</td>
</tr>
<tr>
<td>Size of footpath</td>
<td>Scale 1:10=</td>
<td>Size of footpath</td>
<td>Scale 1:10=</td>
</tr>
</tbody>
</table>