



OPERATIONS AND MAINTENANCE MANUALS

# Regional Lagoons Manuals > ST56 Boonah STP > Sheds

Builder  
Thomas Coffey

Compiled  
Feb 03, 2015

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# Introduction

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## Introduction

This manual has been prepared by Ausfab for the purpose of Operation and maintenance of the Boonah portion of work of the Regional Lagoons Project. The work has been completed as per the Contract and Construction Drawings Supplied by Thomas Coffey.

Please find complete as-built Drawings in the Drawing Section of this manual.

The Following is a brief description of the scope of work.

1. Design and construction of the MF building.
2. Design and construction of the CO2 dosing building



# Maintenance

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## Colorbond Maintenance

### 6 - Monthly

Simple maintenance of COLORBOND® steel and ZINCALUME® steel by regular washing with water, will not only enhance its life but maintain its attractiveness for longer periods thus protecting your asset. Applications where the paint finish is automatically washed by rainwater do not usually require this maintenance, e.g. roof cladding. Examples of applications requiring maintenance cleaning include wall cladding under eaves, garage doors and the underside of eave gutters.

Areas not regularly washed by rainwater should be hosed down at least every six months and more frequently in coastal areas where marine salt spray is prevalent, and in areas where high levels of industrial fallout occur.

In cases where the regular maintenance referred to above does not remove all dirt which may have adhered to the surface of the paint, the following procedure should be carried out:

Wash the surface with a mild solution of pure soap or mild non-abrasive kitchen detergent in warm water. Application should be with a sponge, soft cloth or soft bristle nylon brush, and should be gentle to prevent shiny spots.

The COLORBOND® steel and ZINCALUME® steel should be thoroughly rinsed with clean water immediately after cleaning to remove traces of detergent.

Never use abrasive or solvent type cleaners (turps, petrol, kerosene, paint thinners) on COLORBOND® steel and ZINCALUME® steel.

If cared for in accordance with these instructions, your building components made from COLORBOND® prepainted steel and ZINCALUME® steel will give many years of low maintenance life.

## Leaf Beater Rainwater Head

### 1 - Monthly

The Clean Shield™ screen is mostly self cleaning. If cleaning is required simply lift the Clean Shield™ screen out by taking hold of the quick release tabs and pull the Clean Shield™ screen upwards and outwards, then hose or brush off.

# Operations & Tech Data

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## Leaf Beater - Rainwater head tech data

### Linked Documents

 [Leaf\\_Beater\\_Original\\_Spec and Maintenance\\_Sheet.pdf](#)

## Colorbond steel

### Linked Documents

 [ColorbondSteelDatasheetRev13Dec2013.pdf](#)



**Products:** Leaf Beater® Original with Clean Shield™

**Code:** RHLB01 – 90mm  
RHLB02 – 100mm

The Original Compact Rain Head - now  
with Enhanced Performance

## Product Description

**Keeps your Rain Harvesting system free of mosquitoes, vermin and debris.**

The Leaf Beater® Original + Clean Shield™ is the practical and versatile Rain Head, featuring the new patented Clean Shield™ (single screen) technology. The Leaf Beater® Original + Clean Shield™ Rain Head prevents debris from entering the Rain Harvesting system, improves water quality and reduces tank maintenance. The single screen incorporates Clean Shield™ technology which deflects leaves and debris away from the flow of water. This minimises maintenance and enhances catchment efficiency.

## Features and Benefits

- Upgraded with new debris shedding single screen technology (Clean Shield™)
- Enhanced catchment efficiency – collect more rainwater
- Minimal maintenance – screen automatically sheds debris
- Higher flow rate performance
- Compact design suits smaller spaces
- A single mosquito proof stainless steel mesh screen with 0.955mm aperture
- Available in 90mm or 100mm outlet

## Compliance

- Queensland Development Code MP 4.2 – Water Saving Targets
- AS/NZS 3500.3:2003 Plumbing and Drainage – Stormwater Drainage
- HB230:2008 Rainwater Tank Design and Installation Handbook
- enHealth Council – Guidance on the Use of Rainwater Tanks – Preventing Mosquitoes Breeding
- Queensland Health Regulations 1996 (Part 8 – Mosquito Prevention)

# COLORBOND® steel

Revision 13 December 2013

This literature supersedes all previous issues



## Prepainted - PP

### GENERAL DESCRIPTION

COLORBOND® prepainted steel, specifically designed by BlueScope Steel Limited to provide a high durability, premier cladding and roofing material for general use. To determine if warranties apply, please visit the BlueScope Steel website or contact BlueScope Steel Direct for advice.

### TYPICAL USES

Roofing and accessories, wall cladding, rain water goods. For material selection advice, please contact BlueScope Steel Direct.

### AUSTRALIAN STANDARDS

Substrate - AS 1397

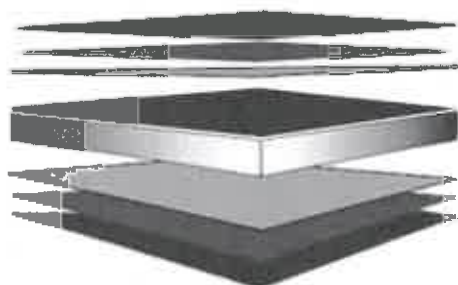
Paint Coating - AS/NZS 2728 Type 3-4

### PREFERRED SUBSTRATES

ZINCALUME® G550S AM100 steel with Activate™ technology

ZINCALUME® G300S AM100 steel with Activate™ technology {Refer Note 8}

Please refer to current price list or BlueScope Steel Limited State Sales Office for availability of colours and dimensions.



CORSTRIP® protective film may be available on request {Refer Note 3}

- ← Finish Coat (Finish Coat + Primer = nominal 25µm) {Refer Notes 4 & 5}
- ← Universal Corrosion Inhibitive Primer
- ← Conversion Coating
- ← ZINCALUME®- Zinc/Aluminium alloy coated steel with Activate™ technology Substrate
- ← Conversion Coating
- ← Universal Corrosion Inhibitive Primer
- ← Backing Coat (Backing Coat + Primer = nominal 10µm total){Refer Note 6}

### ATTRIBUTES TESTED DURING MANUFACTURE

| Property       | Test & Evaluation Method(s)                | Results                   |
|----------------|--|---------------------------|
| Adhesion       |  |                           |
| Reverse Impact | AS/NZS 2728 (App. E)                       | ≥10 joules                |
| T-bend         | AS/NZS 2728 (App. F)                       | Maximum 6T. Refer Note 7. |
| Hardness       |  |                           |
| Pencil         | AS1580.405.1                               | HB or harder              |
| Specular gloss |  |                           |
| 60° meter      | AS/NZS 1580.602.2; ASTM D523 (test & eval) | Nominal ± 10 units        |

Australia 1800 800 789

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Please ensure you have the current data sheet for this product as displayed at [steelproducts.bluescopesteel.com.au](http://steelproducts.bluescopesteel.com.au)



# COLORBOND® steel

Revision 13 December 2013

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## Prepainted - PP

### PRODUCT ATTRIBUTES

| Property                                  | Test & Evaluation Method(s)  | Results  |
|---|--|--|
| T-bend                                    | ASTM D4145   | Maximum 10T (no cracking) Refer Note 7   |
| Resistance to abrasion                    |  |  |
| Scratch                                   | AS 2331 4 7 (test & eval)  | Typically 2000g  |
| Resistance to weathering                  |  |  |
| Natural well washed exposure (10 yrs)     | AS/NZS 1580 457 1  | No flaking or peeling Refer Notes 9 & 10   |
| Resistance to blistering                  |  |  |
| Cleveland (500 hours)                     | ASTM D4545, AS/NZS 1580 481 1 9 (Blisters), AS1580 408 4 (Adhesion)                                    | Blister density $\leq 3$ . Blister size $\leq S2$ . No loss of adhesion or corrosion   |
| Resistance to corrosion                   |  |  |
| Salt spray (1000 hours)                   | AS/NZS 2728 (App. I), ASTM B117, AS 2331 3 1, AS/NZS 1580 481 1 9 (Blisters), AS 1580 408 4 (Adhesion) | Blister density $\leq 2$ . Blister size $\leq S3$ . Undercut from score $\leq 2$ mm. No loss of adhesion or corrosion Refer Note 2   |
| Kesternich (SO <sub>2</sub> ) (50 cycles) | DIN 50018  | Edge creep $< 4$ mm Refer Note 2   |
| Resistance to colour change               |  |  |
| Natural well washed exposure (10 yrs)     | AS/NZS 1580 457 1 & ASTM D2244 (Colour)  | $\Delta E$ cielab 2000 Light colour $\leq 4$ units, Intermediate colour $\leq 6$ units, Dark colour $\leq 10$ units Refer Notes 9 & 10   |
| QUV (2000 hours)                          | ASTM G154 & ASTM D2244 (Colour)  | $\Delta E$ cielab 2000 Intermediate colour $\leq 5$ units  |
| Resistance to chalking                    |  |  |
| Natural well washed exposure (10 yrs)     | AS/NZS 1580 457 1 & AS/NZS 1580 481 1 11 (Chalk Method B)  | Chalk rating $\leq 4$ . Refer Notes 9 & 10.  |
| QUV (2000 hours)                          | ASTM G154 & AS/NZS 1580 481 1 11 (Chalk Method B)  | Chalk rating $\leq 4$  |
| Resistance to delamination                |  |  |
| Exposure                                  | ASTM D1308 (3 1 1) & ASTM D2244 (Colour), AS/NZS 1580 481 1 9 (Blisters)                               | No discolouration or blistering Refer Notes 9 & 11   |
| Resistance to acids                       |  |  |
| Exposure                                  | ASTM D1308 (3 1 1) & ASTM D2244 (Colour), AS/NZS 1580 481 1 9 (Blisters)                               | No discolouration or blistering Refer Notes 2 & 11   |
| Resistance to alkalis                     |  |  |
| Exposure                                  | ASTM D1308 (3 1 1) & ASTM D2244 (Colour), AS/NZS 1580 481 1 9 (Blisters)                               | No discolouration or blistering Refer Notes 2 & 11   |
| Resistance to fire                        |  |  |
| Exposure                                  | AS/NZS 1530 3 (test & eval.)   | Ignitability index 0 rating in scale of 0-20<br>Spread of Flame index 0 rating in scale of 0-10<br>Heat evolved index 0 rating in scale of 0-10<br>Smoke evolved index 0-1 rating in scale of 0-10 |
| Resistance to heat                        |  |  |
| Exposure 100°C continuous (500 hrs)       | ASTM D2244 (Colour)  | Colour change $\Delta E$ cielab 2000 $\leq 3$ units  |

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Please ensure you have the current data sheet for this product as displayed at [steelproducts.bluescopesteel.com.au](http://steelproducts.bluescopesteel.com.au)



# COLORBOND® steel

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Prepainted - PP

## IMPORTANT NOTES

- 1 All warranties for a product, if any, are subject to eligibility. Terms and conditions apply. Nothing in this document is intended by BlueScope Steel to extend, modify or otherwise affect any stated product warranty. To find out more, please visit the BlueScope steel website or contact Steel Direct for advice.
- 2 Product may not be suitable if it is intended to use COLORBOND® steel in an exterior application within 1km of salt marine locations, severe industrial or abnormally corrosive environments; in areas not washed by rain, or in applications where it will be wholly or partly buried in the ground. For selection of the most appropriate COLORBOND® steel product, please refer to Technical Bulletins TB1a, TB1b, CTB16, CTB21 and CTB22. Before purchase, you should check on suitability by visiting the BlueScope Steel website or by contacting BlueScope Steel Direct for advice.
- 3 The CORSTRIP® protective film should be removed from the painted steel strip immediately on installation. Sunlight can increase adhesion of the protective film to the painted surface if left uncovered outside.
- 4 Finish Coat - the coating applied to the exposed surface of the prepainted coil which is expected to meet the Performance Requirements.
- 5 The product is supplied with a nominal 25 unit (60°) gloss Finish Coat
- 6 Backing Coat- a thin coating applied to the reverse surface of the prepainted coil. It also gives additional durability to the reverse surface during the service life of the product, but for aesthetic reasons is not recommended for exposure to sunlight. Performance Requirements are generally not applicable to backing coats. Where specific Performance Requirements are deemed necessary for the reverse surface coating, a "double sided" product should be specified, in which case a topcoat of full nominal thickness will be applied.
- 7 The minimum internal bend diameters for forming processes to achieve no paint cracking (visible using x10 magnification) and to avoid paint adhesion issues are specified by the T-bend flexibility and T-bend adhesion results respectively- where 1T equals the total coated thickness (tct) in mm of the material. These results are based on testing at 20-25°C.
- 8 For most products, the metallurgical ageing process which is inherent in the paint stoving cycle will result in some loss of ductility compared with unpainted product. However, minimum strength levels designated by relevant standards will still be applicable.
- 9 Improper storage or use of non-approved roll-forming lubricants may cause brand transfer and paint blushing, and may adversely affect colour and long term durability. Product in coil or sheet pack form must be kept dry. If the coil or sheet pack becomes wet, it must be separated and dried (refer AS/NZS 2728 Appendix L, and also Technical Bulletin TB7). Contact Steel Direct to obtain advice on appropriate rollforming lubricants.
- 10 Values quoted are for panels exposed in accordance with AS/NZS 2728. Variations for in-situ performance may occur due to complexity of building design and location.
- 11 COLORBOND® steel has good resistance to accidental spillage of solvents such as methylated spirits, white spirit, mineral turpentine, toluene, trichloroethylene and dilute mineral acids and alkalis. However, all spillages should be immediately removed by water washing and drying.

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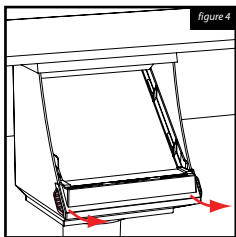
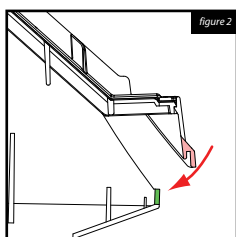
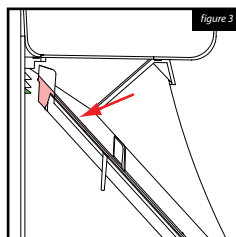
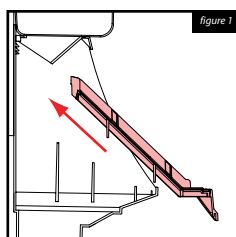


## Installation

### Gutter Installation

1. Remove the existing Gutter Outlet from the roof guttering system.
2. Hold the new Gutter Outlet #3 against the fascia and the bottom of the gutter where the new outlet hole is to be, then using the gutter outlet as a template, draw around the inside of the outlet to mark the underside of the gutter for the new hole and cut out with tin snips.
3. Refit the Gutter Outlet #3 to the main body #1 and place a small amount of sealant in the sealant groove in #3.
4. Remove the Clean Shield™ screen #2 whilst fitting the Leaf Beater® Original. Simply lift the Clean Shield™ screen out (figure 4) by taking hold of the quick release tabs (red) and pull them outwards and upwards.
5. Slide the Leaf Beater® Original up against the fascia and position the Outlet #3 over the gutter outlet hole. Fasten the unit to the fascia with two rivets or screws through the back of the body 1# and into the fascia.
6. Insert the Clean Shield™ screen #2 into the rain head at approx 45 degrees (figure 1) until the front rubber channel is nearly over the front lip of the body. TIP : Wetting the rubber seal will help the screen slide into place.
7. Fix the front of the Clean Shield™ screen #2 into place (figure 2) by sliding the rubber channel (red) over the front lip (green) of the body.
8. Reaching towards the back of the screen push down on the plastic frame (figure 3) so that the rear edge (red) is below the lowest notch (green) and firmly against the back wall of the Leaf Beater® Original.
9. The Leaf Beater® Original is now ready for connection to the downpipe. Do NOT glue the Leaf Beater® Original to the downpipe. SECURE with a screw for easy replacement.

**NOTE:** Where gutters are stretched out or out of square it may be necessary to rivet the Outlet #4 to the gutter. Take care to ensure the Outlet #4 is sealed to the gutter in all situations.



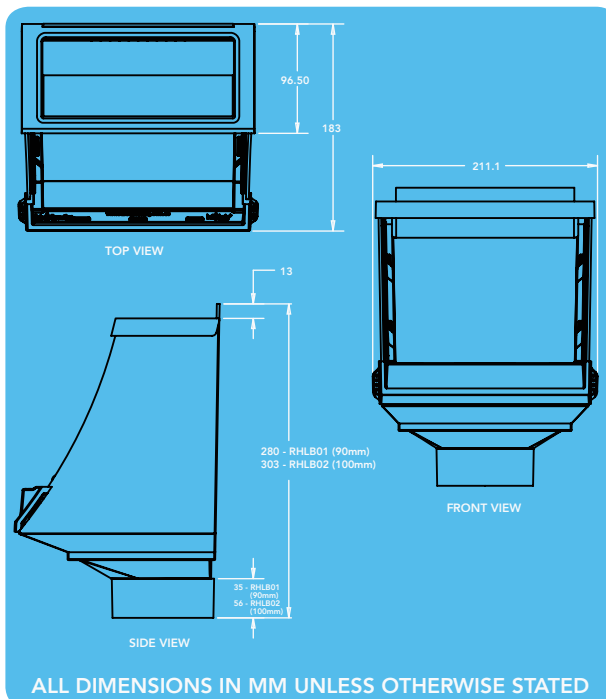
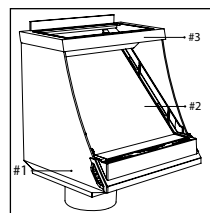
### Mid-Mount Installation

To improve access for cleaning the Leaf Beater® Original Rain Head can be mounted down the wall at a convenient height.

It is important to note that when mid-mounting, the flow directional benefits of the rectangular gutter outlet supplied with the Leaf Beater® Original will be lost. However this is to be balanced with the benefits gained from easier access for maintenance.

For mid-mounting, discard the top flow-directional gutter outlet. Cut the entry downpipe and install so that the downpipe sits approximately 5mm below the inside top edge of the Leaf Beater® Original body. This ensures the end of the pipe is within the Leaf Beater® Original and water is directed onto the face of the screen.

**Recommendation:** When mounting the Leaf Beater® Original, make sure that it is mounted minimum of 1.2m above the discharge point when pushing water underground and then up into a tank. Long runs may require more than a 1.2m head depending on the pipe length and size of the pipe and the volume required to be moved.



## Maintenance

The Clean Shield™ screen is mostly self cleaning. If cleaning is required simply lift the Clean Shield™ screen out by taking hold of the quick release tabs and pull the Clean Shield™ screen upwards and outwards, then hose or brush off.

PO237 DISCLAIMER This product specification is not a complete guide to product usage. Further information is available from Rain Harvesting Pty Ltd and from the Installation and Operating Instructions. This specification sheet must be read in conjunction with the Installation and Operating Instructions and all applicable statutory requirement. Product specifications may change without notice. © Rain Harvesting Pty Ltd





# Warranties

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## Colorbond Warranty

### Linked Documents

 [bslwarranty-RFG-CB-130607-0283- Boonah.pdf](#)

## AusFab Workmanship Warranty

Ausfab warrant their works from the date of practical completion for 12 months as per the terms and conditions of their contract with Thomas & Coffey.

Thomas & Coffey will warrant the works until the end of the defect liability period.



# Certificates

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## Boonah - MF and Dosing Shed Slab Design Form 15

### Linked Documents

 [Boonah - Shed Form 15.pdf](#)

## Boonah- MF Shed Form 16

## Boonah- MF Shed Form 16

### Linked Documents

 [Boonah MF Building- Form 16.pdf](#)

## Boonah pH Building- Form 16

### Linked Documents

 [Boonah PH-CI Building - Form 16.pdf](#)

## Boonah Pumping Station - Form 16

### Linked Documents

 [Boonah Pump Station - Form 16.pdf](#)

## Boonah MF and Dosing Structure Design Form 15

### Linked Documents

 [Shed Design- Form 15.pdf](#)

# Compliance Certificate for building Design or Specification

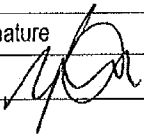
# 15

|   |  |  |                                      |            |               |               |                             |  |  |  |
|---|--|--|--------------------------------------|------------|---------------|---------------|-----------------------------|--|--|--|
| NOTE  | <p>This is to be used for the purposes of section 10 of the <i>Building Act 1975</i> and/or section 46 of the <i>Building Regulation 2006</i>.</p> <p><b>RESTRICTION:</b> A building certifier (class B) can only give a compliance certificate about whether building work complies with the BCA or a provision of the QDC. A building certifier (Class B) can not give a certificate regarding QDC boundary clearance and site cover provisions.</p>                               |  |                                      |            |               |               |                             |  |  |  |
| <p><b>1. Property description</b><br/>         This section need only be completed if details of street address and property description are applicable.<br/> <b>EG. In the case of (standard/generic) pool design/shell manufacture and/or pallo and carport systems this section may not be applicable.</b></p> <p>The description must identify all land the subject of the application.</p> <p>The lot &amp; plan details (eg. SP / RP) are shown on title documents or a rates notice.</p> <p>If the plan is not registered by title, provide previous lot and plan details.</p> | <p>Street address <i>(include no., street, suburb / locality &amp; postcode)</i></p> <table border="1"> <tr> <td>Gorkow Road</td><td></td></tr> <tr> <td>BOONAH QLD</td><td>Postcode 4310</td></tr> </table> <p>Lot &amp; plan details <i>(attach list if necessary)</i></p> <table border="1"> <tr> <td>Lot 1 &amp; Lot 2</td></tr> </table> <p>In which local government area is the land situated?</p> <table border="1"> <tr> <td>Scenic Rim Regional Council</td></tr> </table> | Gorkow Road  |                                      | BOONAH QLD | Postcode 4310 | Lot 1 & Lot 2 | Scenic Rim Regional Council |  |  |  |
| Gorkow Road   |  |  |                                      |            |               |               |                             |  |  |  |
| BOONAH QLD  | Postcode 4310  |  |                                      |            |               |               |                             |  |  |  |
| Lot 1 & Lot 2   |  |  |                                      |            |               |               |                             |  |  |  |
| Scenic Rim Regional Council   |  |  |                                      |            |               |               |                             |  |  |  |
| <p><b>2. Description of component/s certified</b><br/>         Clearly describe the extent of work covered by this certificate, e.g. all structural aspects of the steel roof beams.</p>  | <table border="1"> <tr> <td><b>Roof &amp; Wall Framing, Wind Bracing, Tie-Down &amp; Connections</b></td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>  | <b>Roof &amp; Wall Framing, Wind Bracing, Tie-Down &amp; Connections</b> |                                      |            |               |               |                             |  |  |  |
| <b>Roof &amp; Wall Framing, Wind Bracing, Tie-Down &amp; Connections</b>  |  |  |                                      |            |               |               |                             |  |  |  |
|   |  |  |                                      |            |               |               |                             |  |  |  |
|   |  |  |                                      |            |               |               |                             |  |  |  |
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|   |  |  |                                      |            |               |               |                             |  |  |  |
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|   |  |  |                                      |            |               |               |                             |  |  |  |
|   |  |  |                                      |            |               |               |                             |  |  |  |
|   |  |  |                                      |            |               |               |                             |  |  |  |
| <p><b>3. Basis of certification</b><br/>         Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications, were relied upon.</p>   | <table border="1"> <tr> <td><b>AS 1170.1, AS 1170.2, AS 4100, AS 4600</b></td></tr> <tr> <td><b>Structural Importance Level 3</b></td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>   | <b>AS 1170.1, AS 1170.2, AS 4100, AS 4600</b>                            | <b>Structural Importance Level 3</b> |            |               |               |                             |  |  |  |
| <b>AS 1170.1, AS 1170.2, AS 4100, AS 4600</b>   |  |  |                                      |            |               |               |                             |  |  |  |
| <b>Structural Importance Level 3</b>  |  |  |                                      |            |               |               |                             |  |  |  |
|   |  |  |                                      |            |               |               |                             |  |  |  |
|   |  |  |                                      |            |               |               |                             |  |  |  |
|   |  |  |                                      |            |               |               |                             |  |  |  |
|   |  |  |                                      |            |               |               |                             |  |  |  |
|   |  |  |                                      |            |               |               |                             |  |  |  |
|   |  |  |                                      |            |               |               |                             |  |  |  |

## LOCAL GOVERNMENT USE ONLY

|               |  |                    |  |                                     |
|---------------|--|--------------------|--|-------------------------------------|
| Date received |  | Reference Number/s |  | Approved form 15<br>Version 2 11/11 |
|---------------|--|--------------------|--|-------------------------------------|

## Form 15 continued

|  |  |
|--|--|
| <p><b>4. Reference documentation</b><br/>Clearly identify any relevant documentation, e.g. numbered structural engineering plans.</p>  | <p><b>Drawing Nos: WK12-0541 / 1C, 2B</b><br/><b>by Osborn Lane Consulting Engineers</b></p>   |
| <p><b>5. Building certifier reference number</b></p>   | <p>Building certifier reference number</p>   |
| <p><b>6. Competent person details</b><br/>A competent person for building work, means a person who is assessed by the building certifier for the work as competent to practise in an aspect of the building and specification design, of the building work because of the individual's skill, experience and qualifications in the aspect. The competent person must also be registered or licensed under a law applying in the State to practice the aspect.</p> <p>If no relevant law requires the individual to be licensed or registered to be able to give the help, the certifier must assess the individual as having appropriate experience, qualifications or skills to be able to give the help.</p> <p>If the chief executive issues any guidelines for assessing a competent person, the building certifier must use the guidelines when assessing the person.</p> | <p><b>Name (in full)</b><br/>Robert K Lane</p> <p><b>Company name (if applicable)</b><br/>Osborn Lane Consulting Engineers</p> <p><b>Contact person</b><br/>Robert Lane</p> <p><b>Phone no. business hours</b><br/>07 4660 3300</p> <p><b>Mobile no.</b><br/>0417 644 039</p> <p><b>Fax no.</b><br/>07 4660 3310</p> <p><b>Email address</b><br/>warwick@osbornlane.com</p> <p><b>Postal address</b><br/>PO Box 495<br/>Warwick Qld<br/>Postcode 4370</p> <p><b>Licence or registration number (if applicable)</b><br/>RPEQ 4084</p> |
| <p><b>7. Signature of competent person</b><br/>This certificate must be signed by the individual assessed by the building certifier as competent.</p>  | <p><b>Signature</b><br/></p> <p><b>Date</b><br/>08<sup>th</sup> March 2013</p>  |

The *Building Act 1975* is administered by  
the Department of Local Government and Planning



**Queensland  
Government**

# Inspection Certificate / Aspect Certificate / QBSA Licensee Aspect Certificate

# 16

## NOTE

This form is to be used for the purposes of section 10(c) and 239 of the *Building Act 1975* and/or sections 32, 35B, 43, 44 and 47 of the *Building Regulation 2006*.

### 1. Indicate the type of certificate

The stages of assessable building work are listed in section 24 of the *Building Regulation 2006* or as conditioned by the building certifier.

An aspect of building work is part of a stage (e.g. waterproofing).



Inspection Certificate for



Stage of building work (for single detached class 1a or class 10 building or structure)  
(indicate the stage) \_\_\_\_\_



Aspect of building work  
(indicate the aspect) \_\_\_\_\_

STRUCTURAL AND ROOFING MF BUILDING



QBSA Licensee Aspect Certificate

#### Scope of the work

Scope of the work covered by the licence class under the *Queensland Building Services Authority Regulation 2003* for the aspect being certified, e.g. scope of work for a waterproofing licence is "installing waterproofing materials or systems for preventing moisture penetration". An aspect being certified may include "wet area sealing to showers".

THE SUPPLY AND INSTALL OF STRUCTURAL BEAMS AND ROOFING

### 2. Property description

The description must identify all land the subject of the application.

The lot & plan details (eg. SP / RP) are shown on title documents or a rates notice. If the plan is not registered by title, provide previous lot and plan details.

Street address (include no., street, suburb / locality & postcode)

Boonah STP - Gorkow Rd, Boonah

Postcode 4310

Lot & plan details (Attach list if necessary)

In which local government area is the land situated?

### 3. Building/structure description

Building/structure description

CONTROL AND PROCESSING BUILDING

Class of building / structure

### 4. Description of component/s certified

Clearly describe the extent of work covered by this certificate, e.g. all structural aspects of the steel roof beams.

BEAMS AND ROOFING

LOCAL GOVERNMENT USE ONLY

DATE RECEIVED

REFERENCE NUMBER/S

Approved form 16  
Version 3.11/11



Form 16 continued

**5. Basis of certification**

Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications, were relied upon.

ALL DRAWINGS AND WORK COMPLETED IN ACCORDANCE WITH AS1428, AS1554, AS1100, AS4100 &amp; AS/NZS 4680

**6. Reference documentation**

Clearly identify any relevant documentation, e.g. numbered structural engineering plans.

AS BUILT DRAWINGS ATTACHED

**7. Building certifier reference number and development approval number**

Building certifier reference number

Development approval number

**8. Building Certifier, competent person or QBSA licensee details**

A **competent person** must be assessed as competent before carrying out the inspection.

The builder for the work cannot give a stage certificate of inspection.

A competent person is assessed by the building certifier for the work as competent to practice in an aspect of the building and specification design, because of the individual's skill, experience and qualifications. The competent person must be registered or licensed under a law applying in the State to practice the aspect.

If no relevant law requires the individual to be licensed or registered, the certifier must assess the individual as having appropriate experience, qualifications or skills to be able to give the help.

If the chief executive issues any guidelines for assessing a competent person, the building certifier must use the guidelines when assessing the person.

Name (in full)

NIGEL WEIS

Company name if applicable

AUSFAB CONSTRUCTIONS

Contact person

NIGEL WEIS

Phone no. business hours

1300 995 970

Mobile no.

0435 502 072

Fax no.

1300 998 983

Email address

nigel.weis@ausfabconstructions.com.au

Postal address

40 KENILWORTH STREET WARWICK

Postcode 4370

Licence class

STRUCTURAL STEEL

Licence number

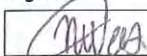
1207479

Date approval to inspect received from building certifier

**9. Signature of building certifier, competent person or QBSA licensee**

Note: A building certifier must sign this form for temporary swimming pool fencing under section 4 of Schedule 1 of QDC MP 3.4.

Signature



Date

26/06/2013



# Inspection Certificate / Aspect Certificate / QBSA Licensee Aspect Certificate

# 16

## NOTE

This form is to be used for the purposes of section 10(c) and 239 of the *Building Act 1975* and/or sections 32, 35B, 43, 44 and 47 of the *Building Regulation 2006*.

### 1. Indicate the type of certificate

The stages of assessable building work are listed in section 24 of the *Building Regulation 2006* or as conditioned by the building certifier.

An aspect of building work is part of a stage (e.g. waterproofing).



Inspection Certificate for



Stage of building work (for single detached class 1a or class 10 building or structure)  
(indicate the stage) \_\_\_\_\_



Aspect of building work  
(indicate the aspect) \_\_\_\_\_

STRUCTURAL AND ROOFING

PH-CI BUILDING



QBSA Licensee Aspect Certificate

#### Scope of the work

Scope of the work covered by the licence class under the *Queensland Building Services Authority Regulation 2003* for the aspect being certified, e.g. scope of work for a waterproofing licence is "installing waterproofing materials or systems for preventing moisture penetration". An aspect being certified may include "wet area sealing to showers".

THE SUPPLY AND INSTALL OF STRUCTURAL BEAMS AND ROOFING

### 2. Property description

The description must identify all land the subject of the application.

The lot & plan details (eg. SP / RP) are shown on title documents or a rates notice. If the plan is not registered by title, provide previous lot and plan details.

Street address (include no., street, suburb / locality & postcode)

Boonah STP - Gorkow Rd, Boonah

Postcode 4310

Lot & plan details (Attach list if necessary)

In which local government area is the land situated?

### 3. Building/structure description

Building/structure description

CONTROL AND PROCESSING BUILDING

Class of building / structure

### 4. Description of component/s certified

Clearly describe the extent of work covered by this certificate, e.g. all structural aspects of the steel roof beams.

BEAMS AND ROOFING

LOCAL GOVERNMENT USE ONLY

DATE RECEIVED

REFERENCE NUMBER/S

Approved form 16  
Version 3, 1/1/11

Form 16 continued

**5. Basis of certification**

Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications, were relied upon.

ALL DRAWINGS AND WORK COMPLETED IN ACCORDANCE WITH AS1428, AS1554, AS1100, AS4100 &amp; AS/NZS 4680

**6. Reference documentation**

Clearly identify any relevant documentation, e.g. numbered structural engineering plans.

AS BUILT DRAWINGS ATTACHED

**7. Building certifier reference number and development approval number**

Building certifier reference number

Development approval number

**8. Building Certifier, competent person or QBSA licensee details**

A **competent person** must be assessed as competent before carrying out the inspection.

The builder for the work cannot give a stage certificate of inspection.

A competent person is assessed by the building certifier for the work as competent to practice in an aspect of the building and specification design, because of the individual's skill, experience and qualifications. The competent person must be registered or licensed under a law applying in the State to practice the aspect.

If no relevant law requires the individual to be licensed or registered, the certifier must assess the individual as having appropriate experience, qualifications or skills to be able to give the help.

If the chief executive issues any guidelines for assessing a competent person, the building certifier must use the guidelines when assessing the person.

Name (in full)

NIGEL WEIS

Company name if applicable

AUSFAB CONSTRUCTIONS

Contact person

NIGEL WEIS

Phone no. business hours

1300 995 970

Mobile no.

0438 502 072

Fax no.

1300 998 983

Email address

nigel.weis@ausfabconstructions.com.au

Postal address

40 KENILWORTH STREET WARWICK

Postcode 4370

Licence class

STRUCTURAL STEEL

Licence number

1207479

Date approval to inspect received from building certifier

**9. Signature of building certifier, competent person or QBSA licensee**

Note: A building certifier must sign this form for temporary swimming pool fencing under section 4 of Schedule 1 of QDC MP 3.4.

Signature

Date

26/06/2013



# Inspection Certificate / Aspect Certificate / QBSA Licensee Aspect Certificate

# 16

## NOTE

This form is to be used for the purposes of section 10(c) and 239 of the *Building Act 1975* and/or sections 32, 35B, 43, 44 and 47 of the *Building Regulation 2006*.

### 1. Indicate the type of certificate

The stages of assessable building work are listed in section 24 of the *Building Regulation 2006* or as conditioned by the building certifier.

An aspect of building work is part of a stage (e.g. waterproofing).



Inspection Certificate for



Stage of building work (for single detached class 1a or class 10 building or structure)  
(indicate the stage) \_\_\_\_\_



Aspect of building work  
(indicate the aspect) \_\_\_\_\_

STRUCTURAL AND ROOFING

PUMP STATION



QBSA Licensee Aspect Certificate

#### Scope of the work

Scope of the work covered by the licence class under the *Queensland Building Services Authority Regulation 2003* for the aspect being certified, e.g. scope of work for a waterproofing licence is "installing waterproofing materials or systems for preventing moisture penetration". An aspect being certified may include "wet area sealing to showers".

THE SUPPLY AND INSTALL OF STRUCTURAL BEAMS AND ROOFING

### 2. Property description

The description must identify all land the subject of the application.

The lot & plan details (eg. SP / RP) are shown on title documents or a rates notice. If the plan is not registered by title, provide previous lot and plan details.

Street address (include no., street, suburb / locality & postcode)

Boonah STP - Gorkow Rd, Boonah

Postcode 4310

Lot & plan details (Attach list if necessary)

In which local government area is the land situated?

### 3. Building/structure description

Building/structure description

CONTROL AND PROCESSING BUILDING

Class of building / structure

### 4. Description of component/s certified

Clearly describe the extent of work covered by this certificate, e.g. all structural aspects of the steel roof beams.

BEAMS AND ROOFING

LOCAL GOVERNMENT USE ONLY

DATE RECEIVED

REFERENCE NUMBER/S

Approved form 16  
Version 3, 11/11

Form 16 continued

**5. Basis of certification**

Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications, were relied upon.

ALL DRAWINGS AND WORK COMPLETED IN ACCORDANCE WITH AS1428, AS1554, AS1100, AS4100 &amp; AS/NZS 4680

**6. Reference documentation**

Clearly identify any relevant documentation, e.g. numbered structural engineering plans.

AS BUILT DRAWINGS ATTACHED

**7. Building certifier reference number and development approval number**

Building certifier reference number

Development approval number

**8. Building Certifier, competent person or QBSA licensee details**

A **competent person** must be assessed as competent before carrying out the inspection.

The builder for the work cannot give a stage certificate of inspection.

A competent person is assessed by the building certifier for the work as competent to practice in an aspect of the building and specification design, because of the individual's skill, experience and qualifications. The competent person must be registered or licensed under a law applying in the State to practice the aspect.

If no relevant law requires the individual to be licensed or registered, the certifier must assess the individual as having appropriate experience, qualifications or skills to be able to give the help.

If the chief executive issues any guidelines for assessing a competent person, the building certifier must use the guidelines when assessing the person.

Name (in full)

NIGEL WEIS

Company name if applicable

AUSFAB CONSTRUCTIONS

Contact person

NIGEL WEIS

Phone no. business hours

1300 995 970

Mobile no.

0438 502 072

Fax no.

1300 998 983

Email address

nigel.weis@ausfabconstructions.com.au

Postal address

40 KENILWORTH STREET WARWICK

Postcode 4370

Licence class

STRUCTURAL STEEL

Licence number

1207479

Date approval to inspect received from building certifier

**9. Signature of building certifier, competent person or QBSA licensee**

Note: A building certifier must sign this form for temporary swimming pool fencing under section 4 of Schedule 1 of QDC MP 3.4.

Signature

Date

26/06/2013



# Compliance Certificate for building Design or Specification

# 15

|   |  |
|---|--|
| <b>NOTE</b>   | <p>This is to be used for the purposes of section 10 of the <i>Building Act 1975</i> and/or section 46 of the <i>Building Regulation 2006</i>.</p> <p><b>RESTRICTION:</b> A building certifier (class B) can only give a compliance certificate about whether building work complies with the BCA or a provision of the QDC. A building certifier (Class B) can not give a certificate regarding QDC boundary clearance and site cover provisions.</p>   |
| <p><b>1. Property description</b></p> <p>This section need only be completed if details of street address and property description are applicable.<br/>EG. In the case of (standard/generic) pool design/shell manufacture and/or patio and carport systems this section may not be applicable.</p> <p>The description must identify all land the subject of the application.<br/>The lot &amp; plan details (eg. SP / RP) are shown on title documents or a rates notice.<br/>If the plan is not registered by title, provide previous lot and plan details.</p> | <p>Street address <i>(include no., street, suburb / locality &amp; postcode)</i></p> <div style="border: 1px solid black; padding: 2px;"> <p><b>Wind Region B, TC 2 &amp; 3</b></p> <div style="border-bottom: 1px dashed black; width: 100%;"></div> <div style="text-align: right;">Postcode</div> </div> <p>Lot &amp; plan details <i>(attach list if necessary)</i></p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>In which local government area is the land situated?</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>  |
| <p><b>2. Description of component/s certified</b></p> <p>Clearly describe the extent of work covered by this certificate, e.g. all structural aspects of the steel roof beams.</p>  | <div style="border: 1px solid black; padding: 2px;"> <p><b>Roof &amp; Wall Framing, Wind Bracing, Tie-Down &amp; Connections</b></p> <div style="border-bottom: 1px dashed black; height: 15px;"></div> <div style="border-bottom: 1px dashed black; height: 15px;"></div> <div style="border-bottom: 1px dashed black; height: 15px;"></div> <div style="border-bottom: 1px dashed black; height: 15px;"></div> <div style="border-bottom: 1px dashed black; height: 15px;"></div> <div style="border-bottom: 1px dashed black; height: 15px;"></div> <div style="border-bottom: 1px dashed black; height: 15px;"></div> </div> |
| <p><b>3. Basis of certification</b></p> <p>Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications, were relied upon.</p>   | <div style="border: 1px solid black; padding: 2px;"> <p><b>AS 1170.1, AS 1170.2, AS 4100, AS 4600</b></p> <p><b>Structural Importance Level 3</b></p> <div style="border-bottom: 1px dashed black; height: 15px;"></div> <div style="border-bottom: 1px dashed black; height: 15px;"></div> <div style="border-bottom: 1px dashed black; height: 15px;"></div> <div style="border-bottom: 1px dashed black; height: 15px;"></div> <div style="border-bottom: 1px dashed black; height: 15px;"></div> </div>  |

LOCAL GOVERNMENT USE ONLY

Date received

Reference Number/s

Approved form 15  
Version 2 11/11

Form 15 continued

**4. Reference documentation**

Clearly identify any relevant documentation, e.g. numbered structural engineering plans.

**Drawing Nos: WK12-0541 / 1C, 2B**

**by Osborn Lane Consulting Engineers**

**5. Building certifier reference number**

Building certifier reference number

**6. Competent person details**

A competent person for building work, means a person who is assessed by the building certifier for the work as competent to practise in an aspect of the building and specification design, of the building work because of the individual's skill, experience and qualifications in the aspect. The competent person must also be registered or licensed under a law applying in the State to practice the aspect.

If no relevant law requires the individual to be licensed or registered to be able to give the help, the certifier must assess the individual as having appropriate experience, qualifications or skills to be able to give the help.

If the chief executive issues any guidelines for assessing a competent person, the building certifier must use the guidelines when assessing the person.

Name (in full)

**Robert K Lane**

Company name (if applicable)

**Osborn Lane Consulting Engineers**

Contact person

**Robert Lane**

Phone no. business hours

**07 4660 3300**

Mobile no.

**0417 644 039**

Fax no.

**07 4660 3310**

Email address

[warwick@osbornlane.com](mailto:warwick@osbornlane.com)

Postal address

**PO Box 495**

**Warwick Qld**

Postcode **4370**

Licence or registration number (if applicable)

**RPEQ 4084**

**7. Signature of competent person**

This certificate must be signed by the individual assessed by the building certifier as competent.

Signature



Date

**07<sup>th</sup> January 2013**

## Help & Contact

---

### **AusFab Constructions**

**Trade or Product:** Shed Design and Construction

**Contact & Address Details:**

Steve Bartlett | Procurement/ Project supervisor

Postal: PO Box 3558, Tingalpa QLD 4173

Production & Delivery: 40 Kenilworth Street, Warwick QLD 4370

P: 1300 995 970 | F: 1300 998 983 | 0437 930 343 | E: [steve@ausfabconstructions.com.au](mailto:steve@ausfabconstructions.com.au)

# As Built Drawings

---

## MF/ Dosing Building Framing Plan

Site: (ST056) Boonah

### Linked Documents

 [WK12-0541 1D.pdf](#)

## Boonah MF Shed Shop Drawing As-built

Site: (ST056) Boonah

### Linked Documents

 [Boonah MF Building As-built.pdf](#)

## Boonah Dosing Building Shop Drawing As-built

Site: (ST056) Boonah

### Linked Documents

 [Boonah Dosing Building As-built.pdf](#)

## Boonah Pumping Station Shop Drawing As-built

Site: (ST056) Boonah

### Linked Documents

 [Boonah Pump Station As-built.pdf](#)

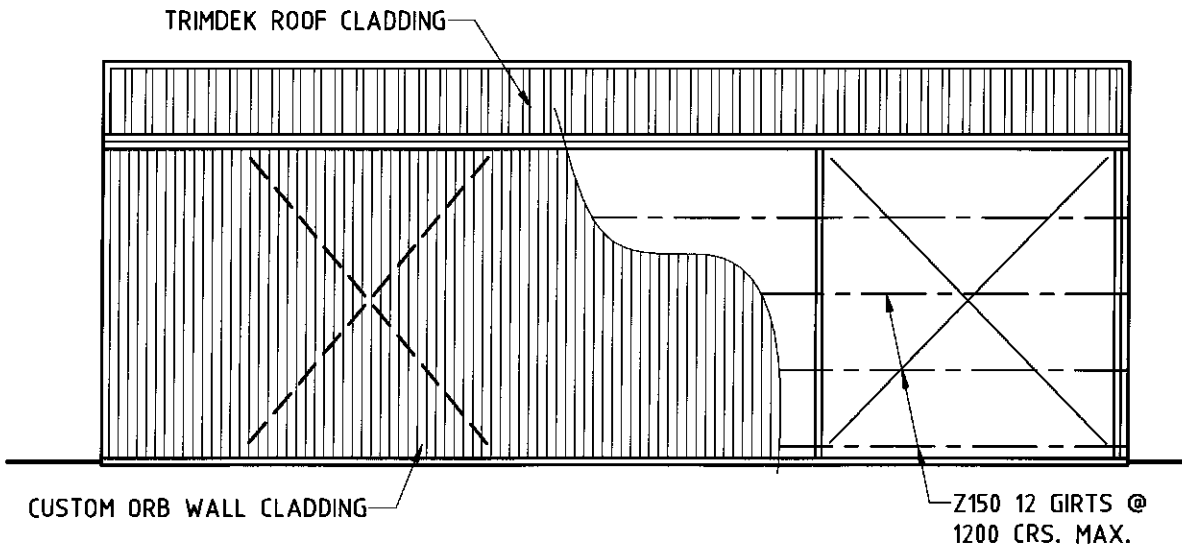
## Boonah MF and Dosing Building Slab Design

Site: (ST056) Boonah

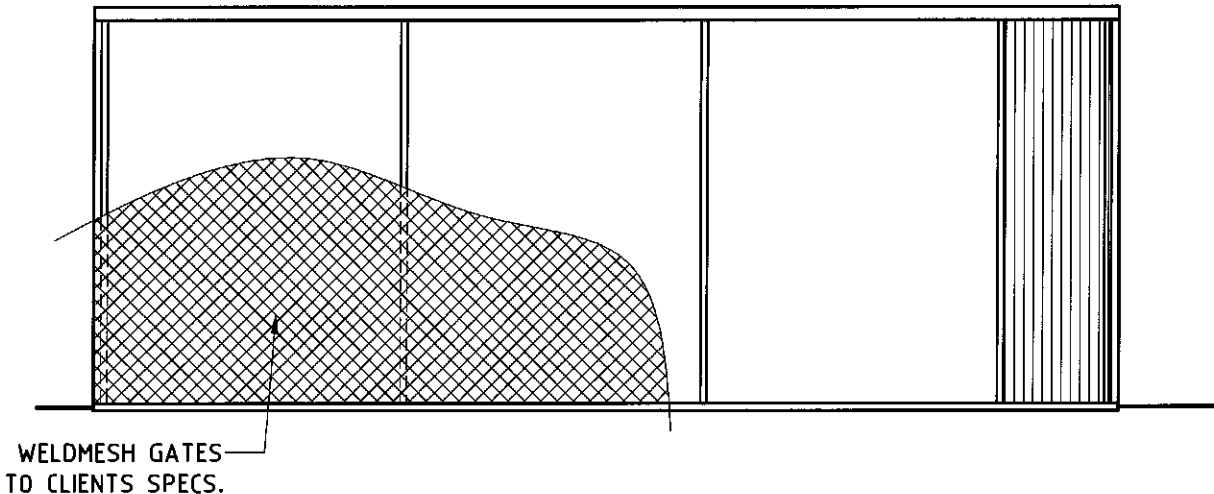
### Linked Documents

 [12687-S4 - Boonah MF and Dosing slab.pdf](#)

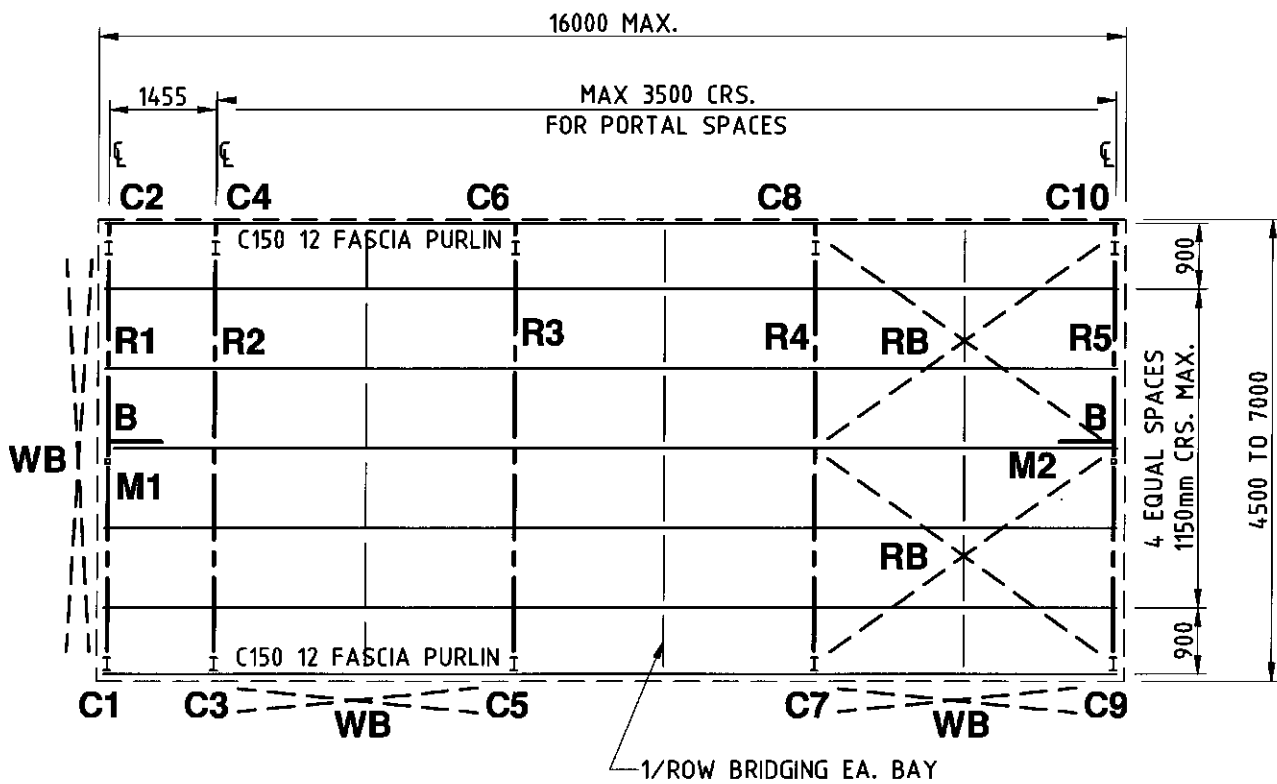




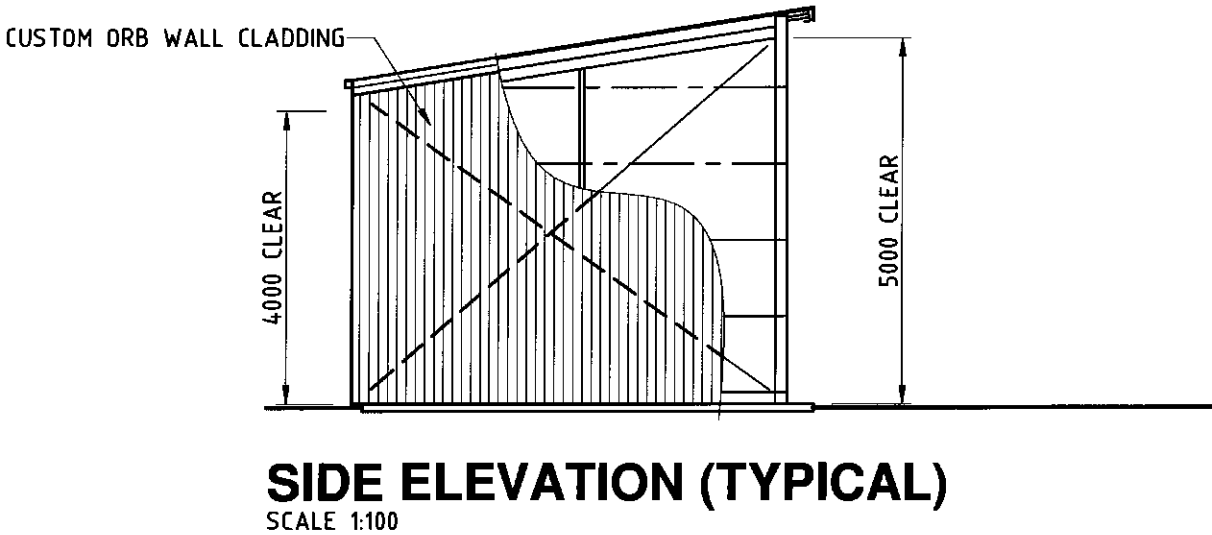
REAR ELEVATION  
SCALE 1:100



FRONT ELEVATION  
SCALE 1:100



ROOF FRAMING PLAN  
SCALE 1:100



SIDE ELEVATION (TYPICAL)  
SCALE 1:100

| MEMBER SCHEDULE    |            |   |
|--------------------|------------|---|
| COLUMNS            | (C1 - C10) | - 150 UB 18 (4500-6000)                   |
|                    |            | - 180 UB 16 (7000)                        |
| RAFTERS            | (R1 - R5)  | - 150 UB 18 (4500-6000)                   |
|                    |            | - 180 UB 16 (7000)                        |
| MULLIONS           | (M1 - M2)  | - 65x65x4.0 S.H.S. (NOT REQUIRED ON 3000) |
| PURLINS            |            | - Z150 12 (CONTINUOUS)                    |
| ROOF BRACE (RB)    |            | - R12 ROD SET MADE TAUT WITH TURNBUCKLES  |
| WALL BRACE (WB)    |            | - R12 ROD SET MADE TAUT WITH TURNBUCKLES  |
| END WALL BRACE (B) |            | (REFER DETAIL - 1 PER END WALL)           |

STEELWORK NOTES

1. All work to be in accordance with current SAA codes and the Building Code of Australia.
2. Builder to verify all information and dimensions on site prior to commencement of construction.
3. Unless noted otherwise: Bolts to be M12 8.8/S. All fin, gusset & end plates to be 8 plate. Welds to be 6mm C.F.W. to mild steel and 3mm C.F.W. to cold-rolled steel.
4. Maintain stability of structure throughout erection.
5. All steel work to be power brushed & painted with two coats of red zinc oxide primer or hot dipped galvanized.
6. Design Wind Speed 54 m/s
7. Structural Importance Level 3

|      |   |
|------|---|
| NOTE | 1. Builder to verify all information & dimensions on site prior to commencement of construction.                                |
|      | 2. DO NOT SCALE DRAWINGS  |
|      | 3. This drawing and the copyright thereof remains the property of <b>OSBORN LANE</b> Consulting Engineers A.B.N. 51 132 296 754 |
|      |   |

|                    |            |   |
|--------------------|------------|---|
|                    |            |   |
| Revised wind speed | 18/12/2012 | C |
| Revised members    | 17/12/2012 | B |
| Issued             | 4/12/2012  | A |
| Drawing Revision   |            |   |

**OSBORN LANE**

CONSULTING ENGINEERS

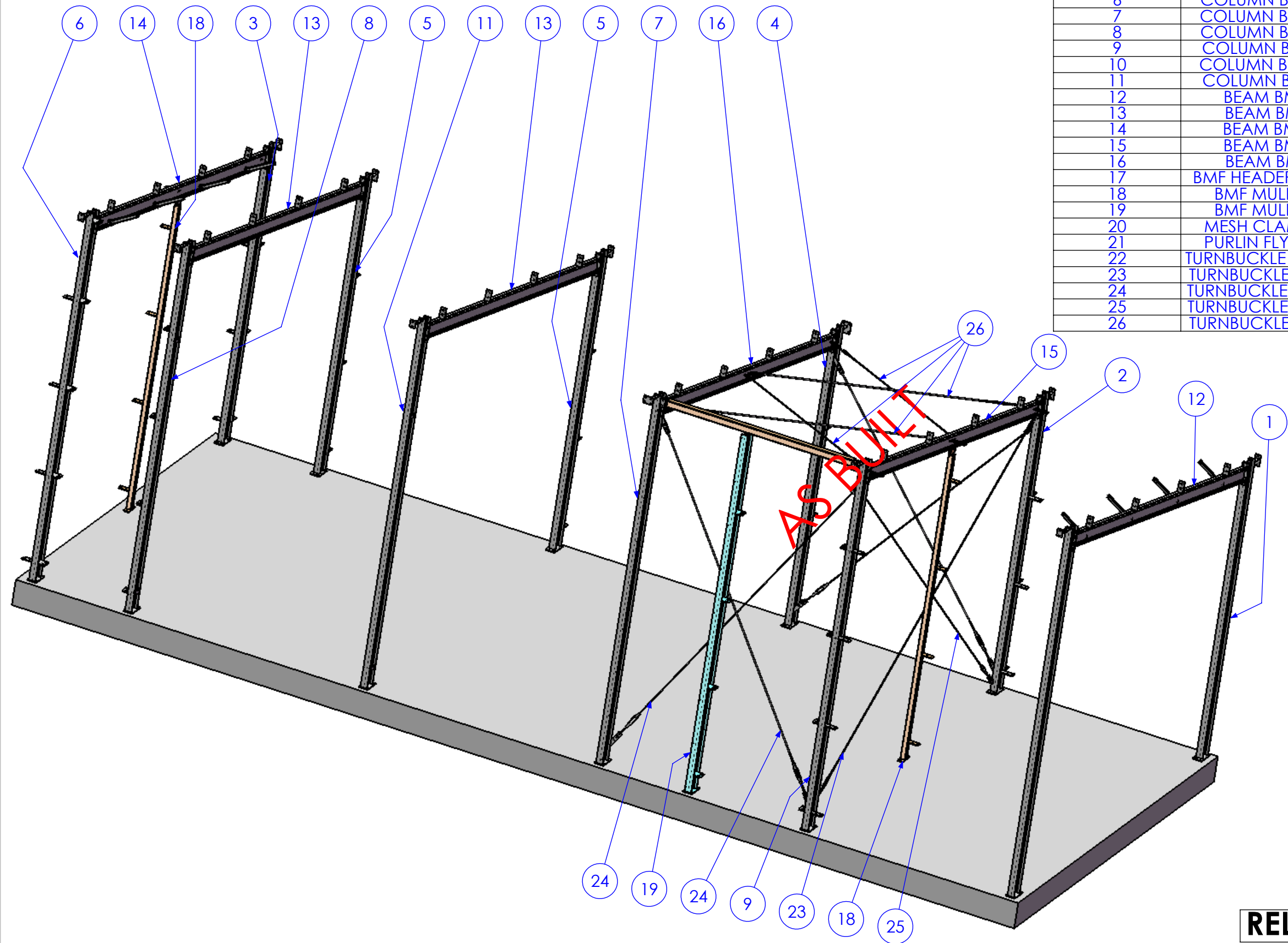
(Head Office)  
148A Palmerin St.  
Warwick Qld. 4370  
Ph 07 4680 3300  
Fax 07 4680 3310

25 Warwick Road  
Ipswich Qld. 4305  
Ph 07 3282 7770  
Fax 07 3281 7237

99 Musgrave Road  
Red Hill Qld. 4059  
Ph 07 3510 8510  
Fax 07 3876 3045

|   |
|---|
| PROPOSED BUILDING FRAME<br>TO DRAWING Nos. 5348-HD 1001<br>FOR AUSFAB CONSTRUCTIONS |
|---|

|                             |                    |            |
|-----------------------------|--------------------|------------|
| ROOF FRAMING PLAN           |                    |            |
| drawn: C.F.R.               | checked: C.F.R.    | rev: D     |
| checked: <i>[Signature]</i> | RPEQ. 4084         |            |
| scale: As Shown             | job no.: WK12-0541 | dwg no: -1 |
| SHEET 1 of 2                |                    |            |



| ITEM NO. | DESCRIPTION        | QTY | Part No           |
|----------|--------------------|-----|-------------------|
| 1        | COLUMN BMF C1A     | 1   | 5248-A-A1-A1-P1A  |
| 2        | COLUMN BMF C1B     | 1   | 5248-A-A1-A1-P1B  |
| 3        | COLUMN BMF C1C     | 1   | 5248-A-A1-A1-P1C  |
| 4        | COLUMN BMF C1E     | 1   | 5248-A-A1-A1-P1E  |
| 5        | COLUMN BMF C1F     | 2   | 5248-A-A1-A1-P1F  |
| 6        | COLUMN BMF C2A     | 1   | 5248-A-A1-A1-P2A  |
| 7        | COLUMN BMF C2C     | 1   | 5248-A-A1-A1-P2C  |
| 8        | COLUMN BMF C2D     | 1   | 5248-A-A1-A1-P2D  |
| 9        | COLUMN BMF C2E     | 1   | 5248-A-A1-A1-P2E  |
| 10       | COLUMN BMF C2G     | 1   | 5248-A-A1-A1-P2G  |
| 11       | COLUMN BMF C2J     | 1   | 5248-A-A1-A1-P2J  |
| 12       | BEAM BMF3A         | 1   | 5248-A-A1-A1-P3A  |
| 13       | BEAM BMF3B         | 2   | 5248-A-A1-A1-P3B  |
| 14       | BEAM BMF3C         | 1   | 5248-A-A1-A1-P3C  |
| 15       | BEAM BMF3D         | 1   | 5248-A-A1-A1-P3D  |
| 16       | BEAM BMF3E         | 1   | 5248-A-A1-A1-P3E  |
| 17       | BMF HEADER BEAM 2  | 1   | 5248-A-A1-A1-P6   |
| 18       | BMF MULLION 1      | 2   | 5248-A-A1-A1-P4   |
| 19       | BMF MULLION 2      | 1   | 5248-A-A1-A1-P8   |
| 20       | MESH CLAMP BAR     | 2   | 5248-A-A1-A1-P9   |
| 21       | PURLIN FLY BRACE   | 8   | 5248-A-A1-A1-P10  |
| 22       | TURNBUCKLE BRACE A | 2   | 5248-A-A1-A1-P11A |
| 23       | TURNBUCKLE BRACE B | 1   | 5248-A-A1-A1-P11B |
| 24       | TURNBUCKLE BRACE C | 2   | 5248-A-A1-A1-P11C |
| 25       | TURNBUCKLE BRACE D | 1   | 5248-A-A1-A1-P11D |
| 26       | TURNBUCKLE BRACE E | 4   | 5248-A-A1-A1-P11E |

RELEASED FOR MANUFACTURE

| REV       | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----------|------------------------------|------------|-------------|
| 02        | ADD BRACING                  | 2/01/2013  | SDB         |
| 03        | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04        | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05        | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06        | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07        | AMMENDMENT                   |            |             |
| REVISIONS |                              |            |             |

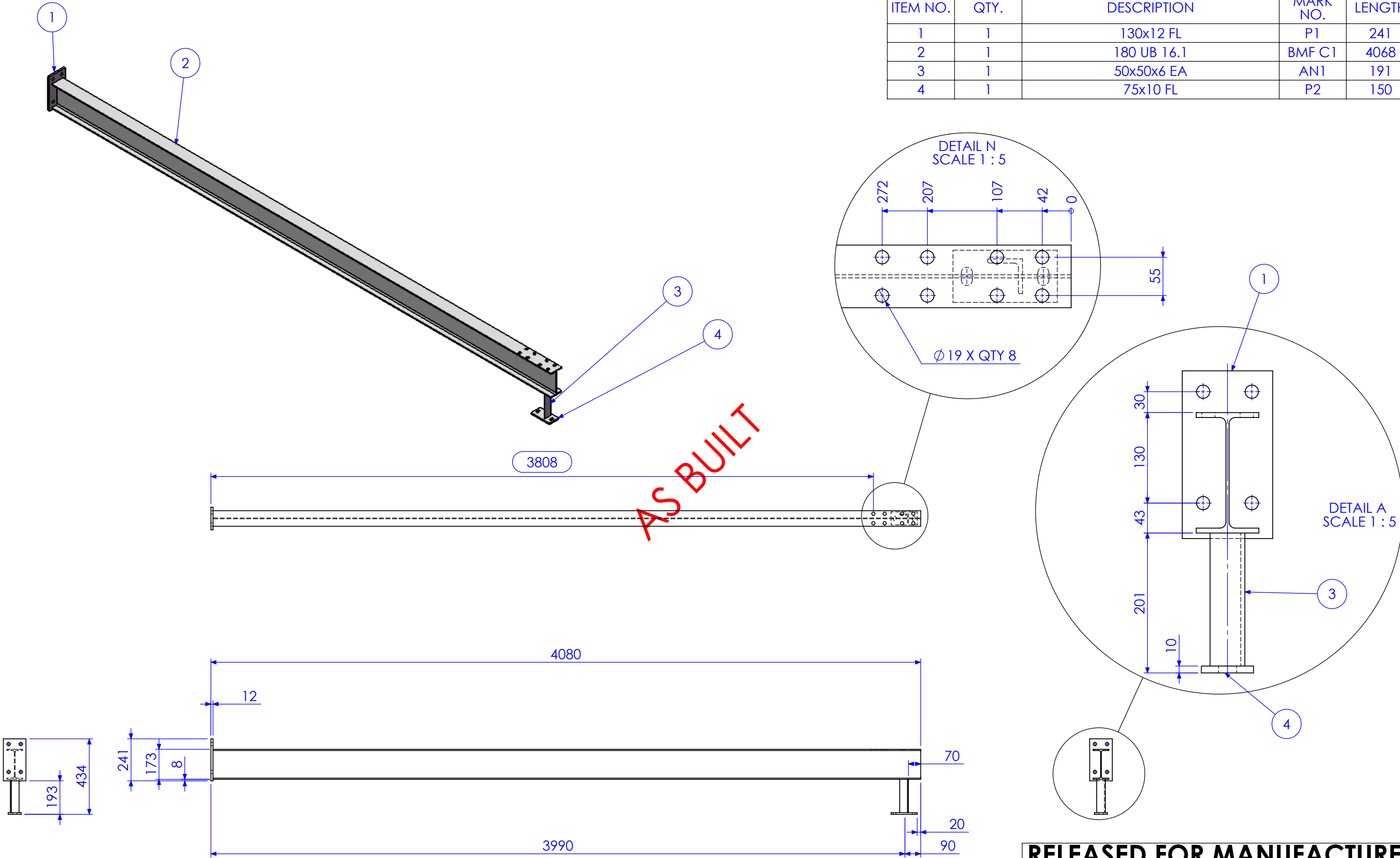
|   |  |
|---|--|
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|---|--|

|   |   |
|---|---|
| APPROX. MASS:<br>kg   | DO NOT SCALE<br>IF IN DOUBT - ASK                                       |
| DRAWING NOTES:<br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm | SCALE 1:50 UNO<br>DRAWN SB 21/12/12<br>CHECK EG/DB/NW -<br>APPROVED - - |

|             |                  |                                   |
|-------------|------------------|-----------------------------------|
| JOB NUMBER: | 5248             | QTY: 1                            |
| DESCRIPTION | TRUSSES ASSEMBLY |                                   |
| DRAWING No. | 5248-A-A1-A1     | PURPOSE OF DRAWING<br>FABRICATION |

|                                  |        |
|----------------------------------|--------|
| AS1100<br>THIRD ANGLE PROJECTION | A3     |
| SHEET 1 of 24                    | REV 06 |

| ITEM NO. | QTY. | DESCRIPTION | MARK NO. | LENGTH |
|----------|------|-------------|----------|--------|
| 1        | 1    | 130x12 FL   | P1       | 241    |
| 2        | 1    | 180 UB 16.1 | BMF C1   | 4068   |
| 3        | 1    | 50x50x6 EA  | AN1      | 191    |
| 4        | 1    | 75x10 FL    | P2       | 150    |



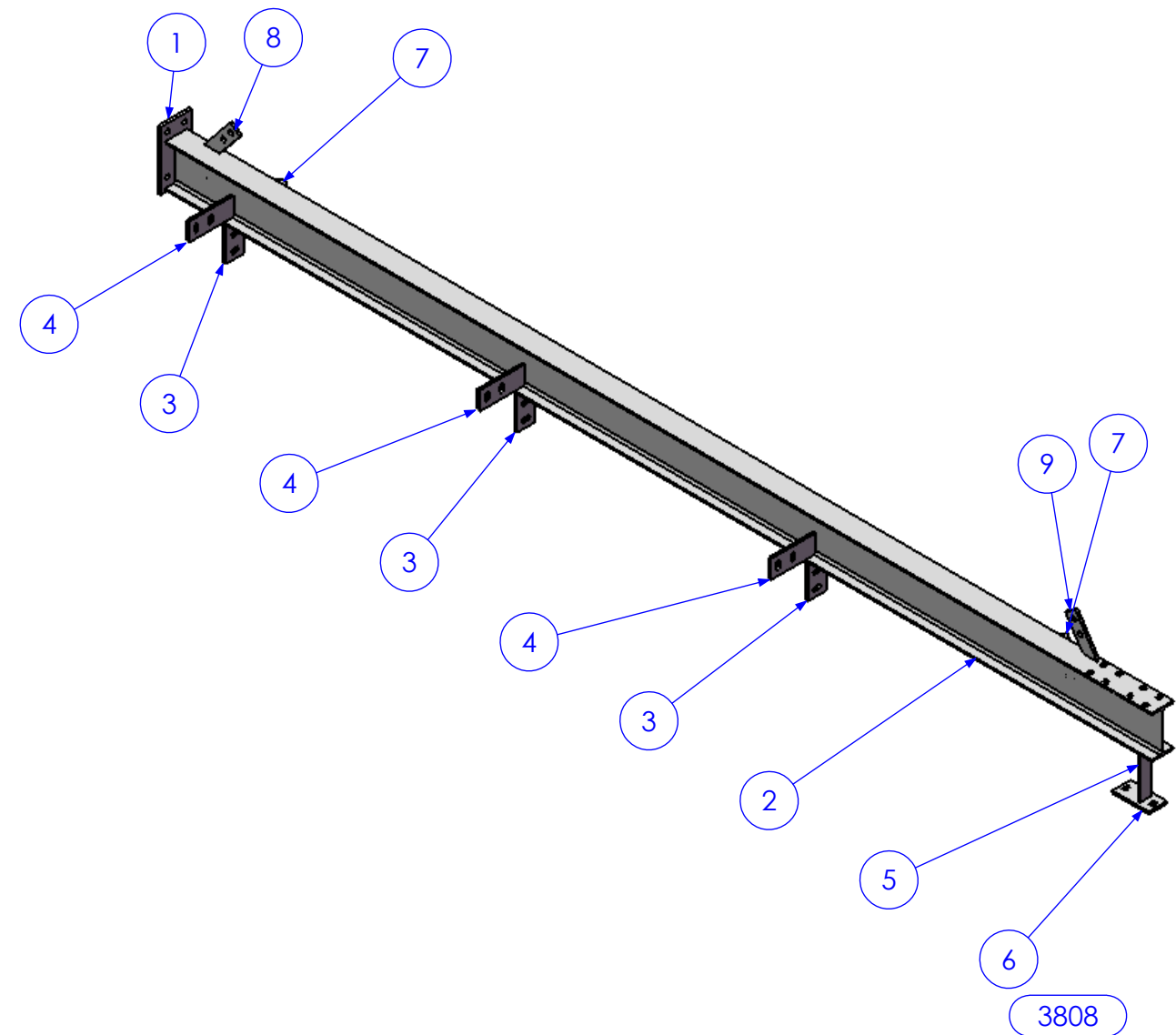
RELEASED FOR MANUFACTURE

| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

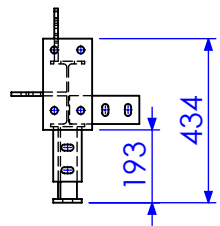
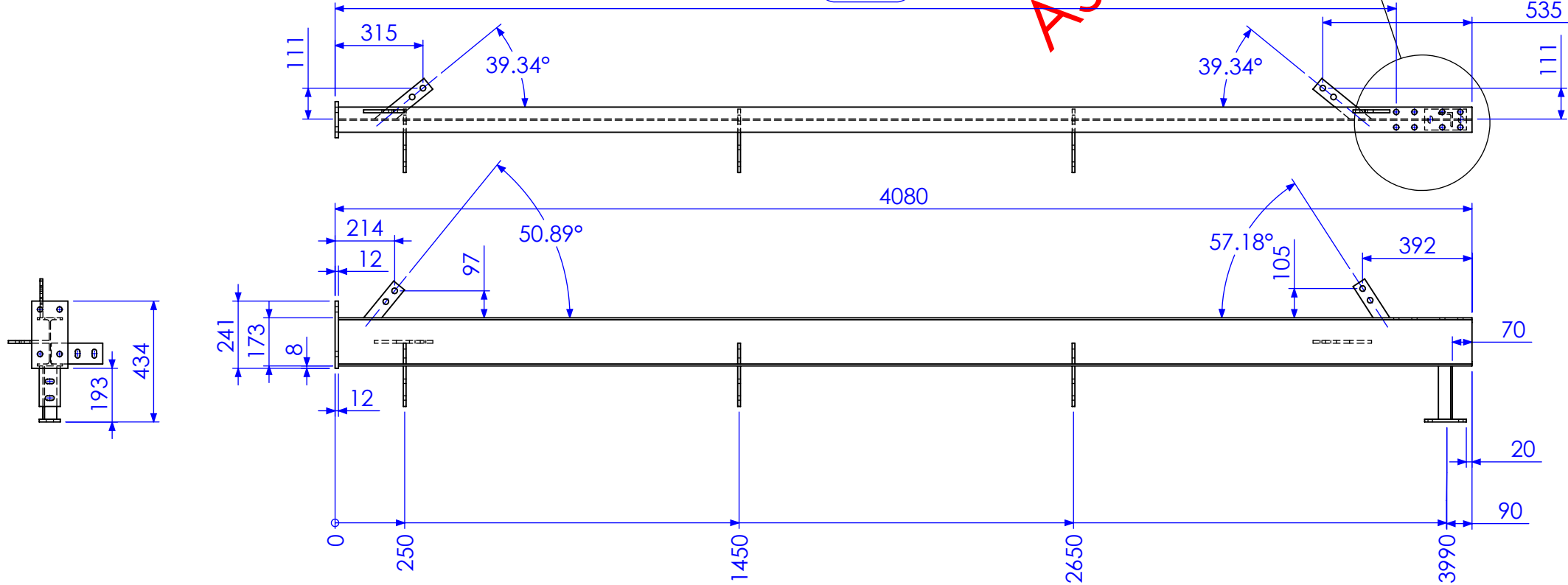
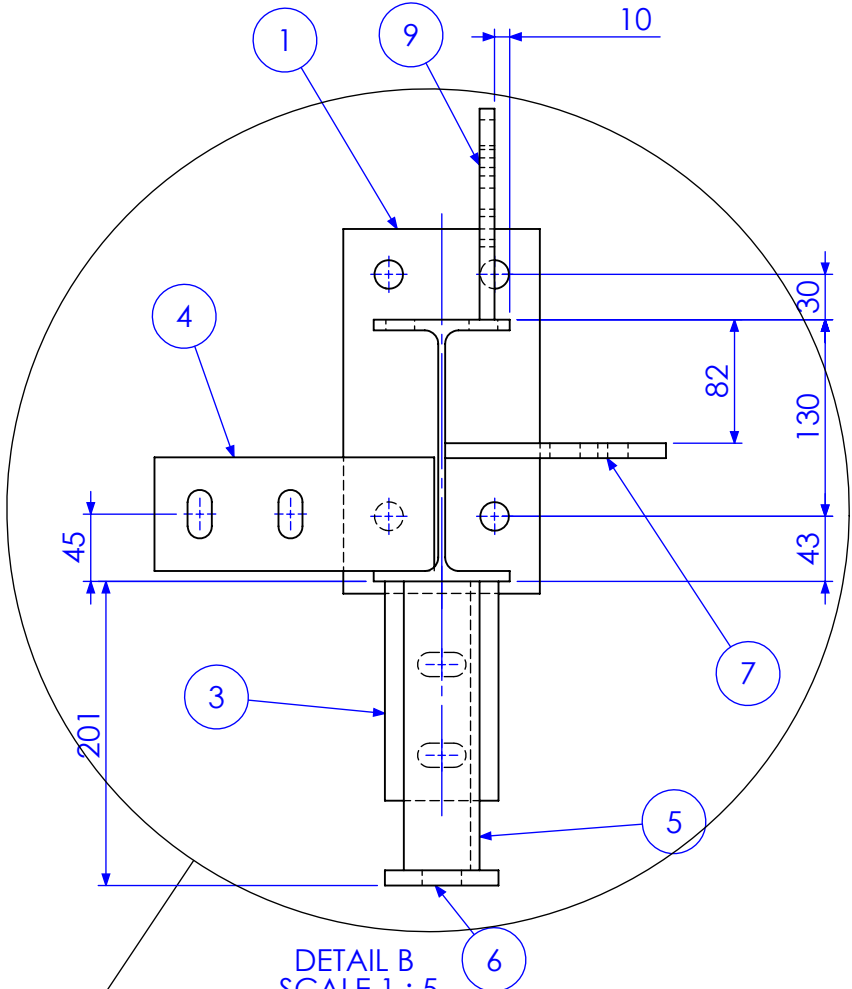
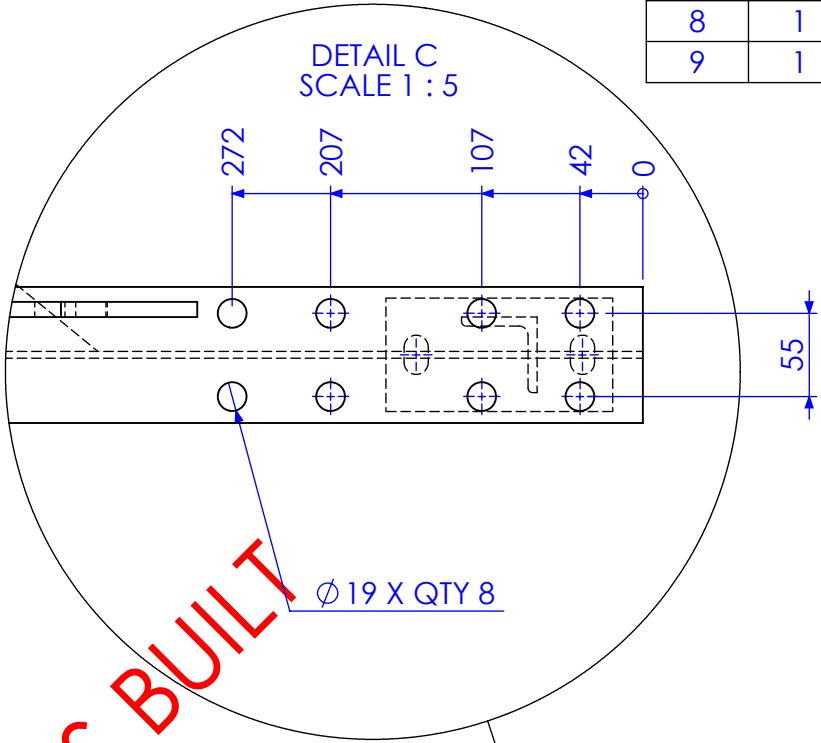
| FINISH REQUIREMENTS-   | HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE) |
|--|---|
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| 15/05/2015   |   |

| APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK |
|---|--------------------------------|
| DRAWING NOTES:  |                                |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.           |                                |
| FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: |                                |
| FABRICATION ± 2.0mm   |                                |
| MACHINING ± 0.25mm  |                                |
| SCALE   | 1:20 UNO                       |
| DRAWN   | SB 21/12/12                    |
| CHECK   | EG/DB/NW -                     |
| APPROVED  | - -                            |

| JOB NUMBER:        | 5248                   | QTY: 1 |
|--------------------|------------------------|--------|
| DESCRIPTION        | COLUMN BMF C1A         |        |
| DRAWING No.        | 5248-A-A1-A1-P1A       |        |
| AS1100             | THIRD ANGLE PROJECTION | A3     |
| SHEET 2 of 24      | REV 06                 |        |
| PURPOSE OF DRAWING | FABRICATION            |        |



| ITEM NO. | QTY. | DESCRIPTION | MARK NO. | LENGTH |
|----------|------|-------------|----------|--------|
| 1        | 1    | 130x12 FL   | P1       | 241    |
| 2        | 1    | 180 UB 16.1 | BMF C1   | 4068   |
| 3        | 3    | 75x10 FL    | P3       | 145    |
| 4        | 3    | 75x10 FL    | P4       | 185    |
| 5        | 1    | 50x50x6 EA  | AN1      | 191    |
| 6        | 1    | 75x10 FL    | P2       | 150    |
| 7        | 2    | 50x10 FL    | P19      | 230.5  |
| 8        | 1    | 50x10 FL    | P20      | 170.33 |
| 9        | 1    | 50x10 FL    | P21      | 166.12 |



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| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

Q-Pulse Id TMS1164

FINISH REQUIREMENTS-  
HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE)

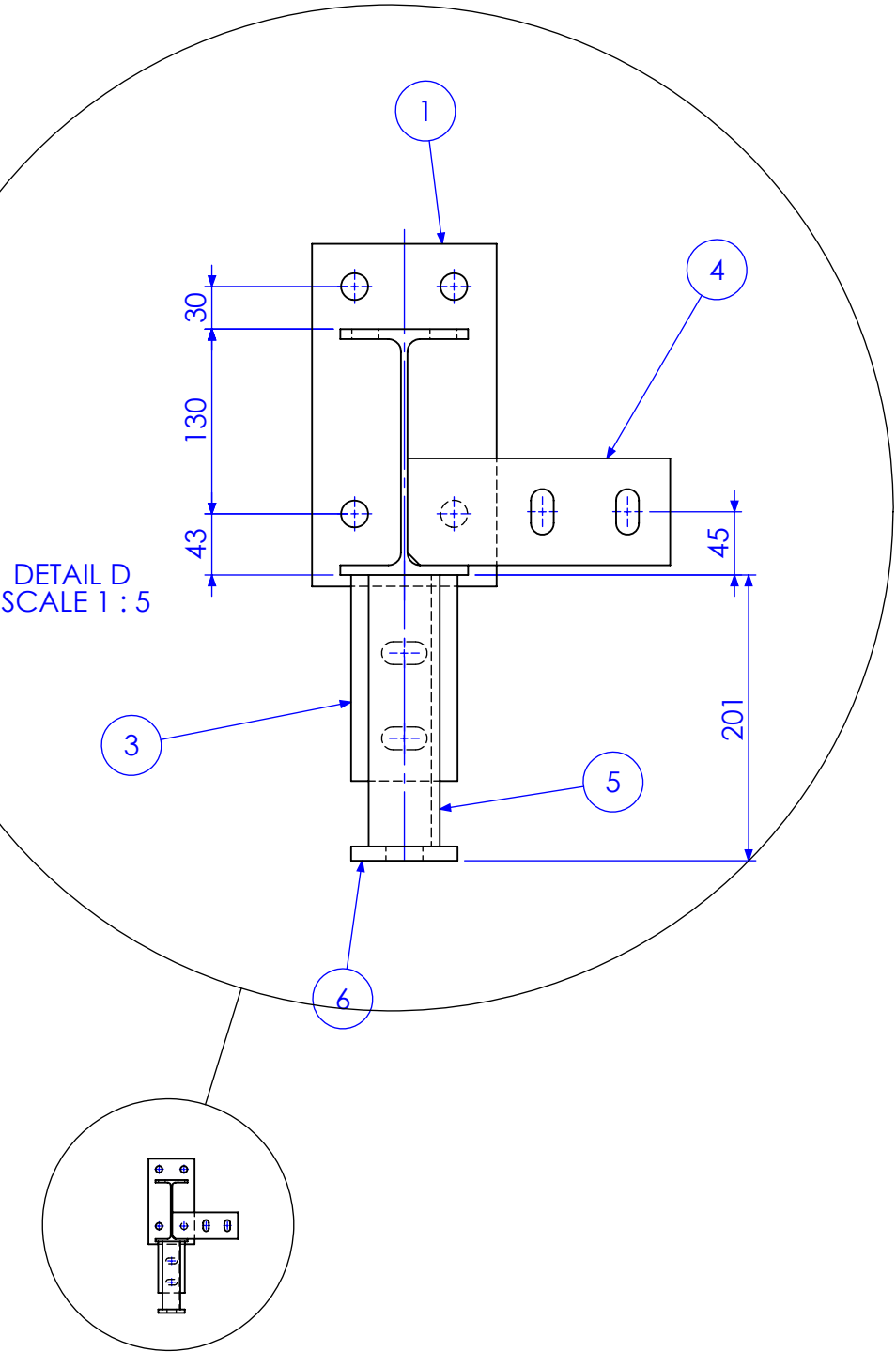
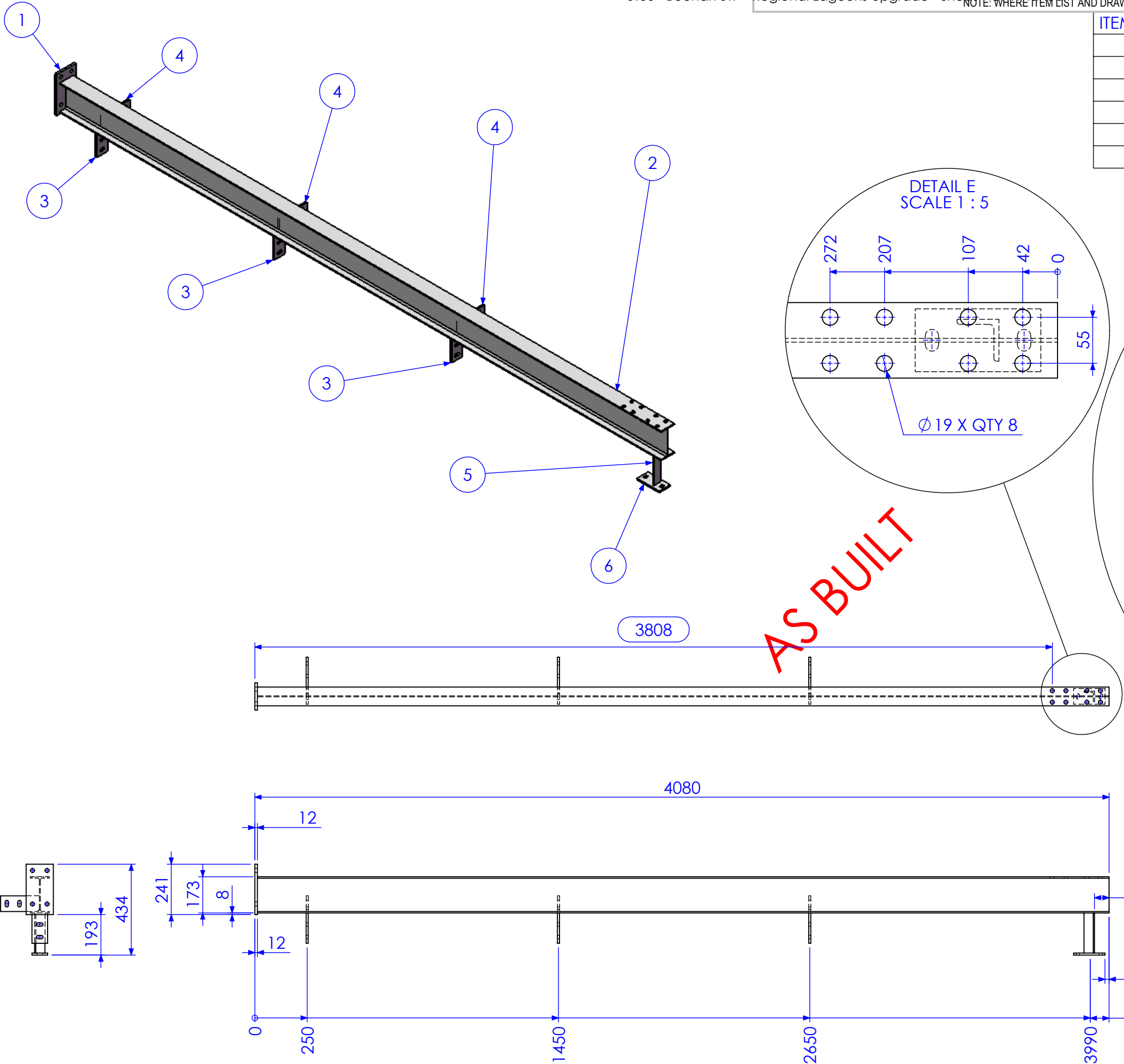
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15/05/2015

| APPROX. MASS: kg  |          | DO NOT SCALE IF IN DOUBT - ASK |          |
|---|----------|--------------------------------|----------|
| DRAWING NOTES:<br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm |          | SCALE                          | 1:20 UNO |
| DRAWN   | SB       | 21/12/12                       |          |
| CHECK   | EG/DB/NW | -                              |          |
| APPROVED  | -        | -                              |          |

|                    |      |  |   |
|--------------------|------|--|---|
| JOB NUMBER:        | 5248 | QTY:                                   | 1 |
| DESCRIPTION        |      | AS1100<br>THIRD ANGLE PROJECTION<br>A3 |   |
| DRAWING No.        |      | 5248-A-A1-A1-P1B                       |   |
| PURPOSE OF DRAWING |      | SHEET 3 of 24<br>REV 06<br>FABRICATION |   |

| ITEM NO. | QTY. | DESCRIPTION | MARK NO. | LENGTH |
|----------|------|-------------|----------|--------|
| 1        | 1    | 130x12 FL   | P1       | 241    |
| 2        | 1    | 180 UB 16.1 | BMF C1   | 4068   |
| 3        | 3    | 75x10 FL    | P3       | 145    |
| 4        | 3    | 75x10 FL    | P4       | 185    |
| 5        | 1    | 50x50x6 EA  | AN1      | 191    |
| 6        | 1    | 75x10 FL    | P2       | 150    |



RELEASED FOR MANUFACTURE

| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

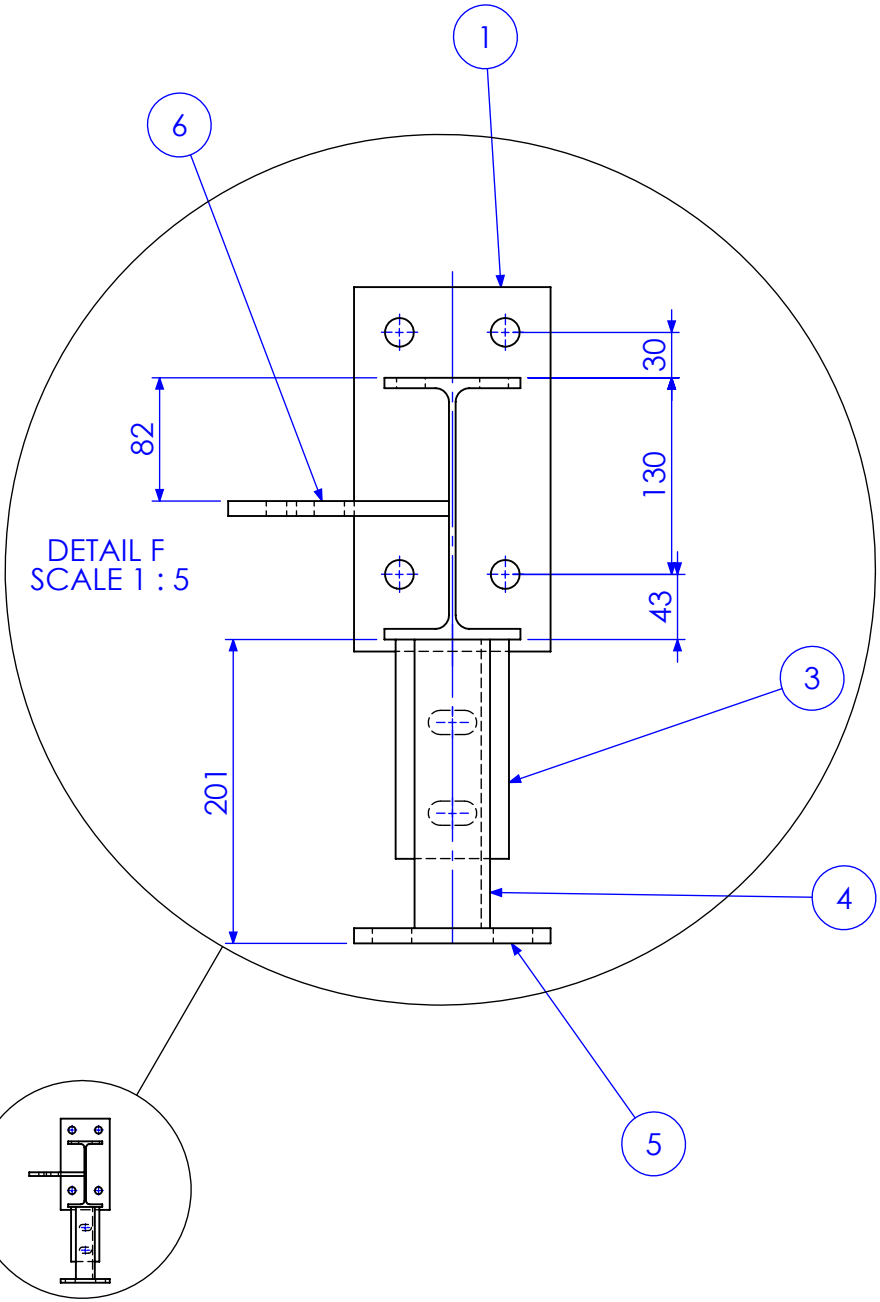
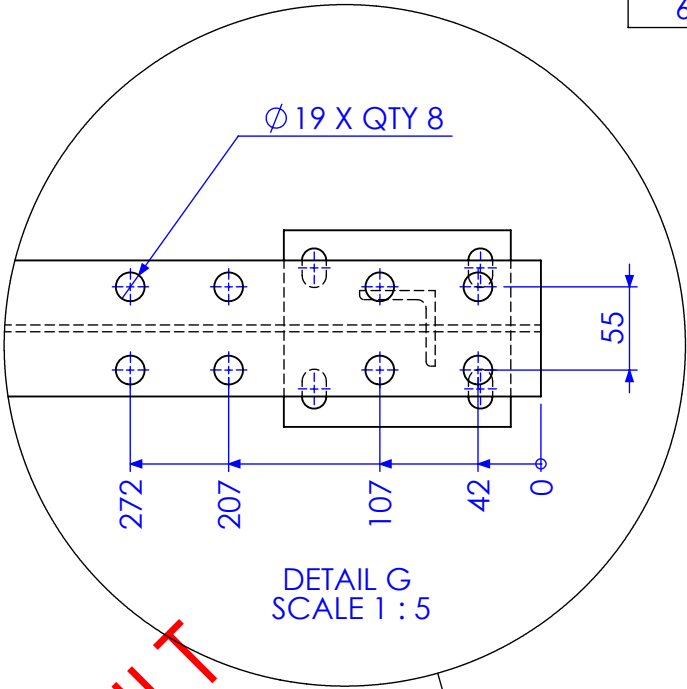
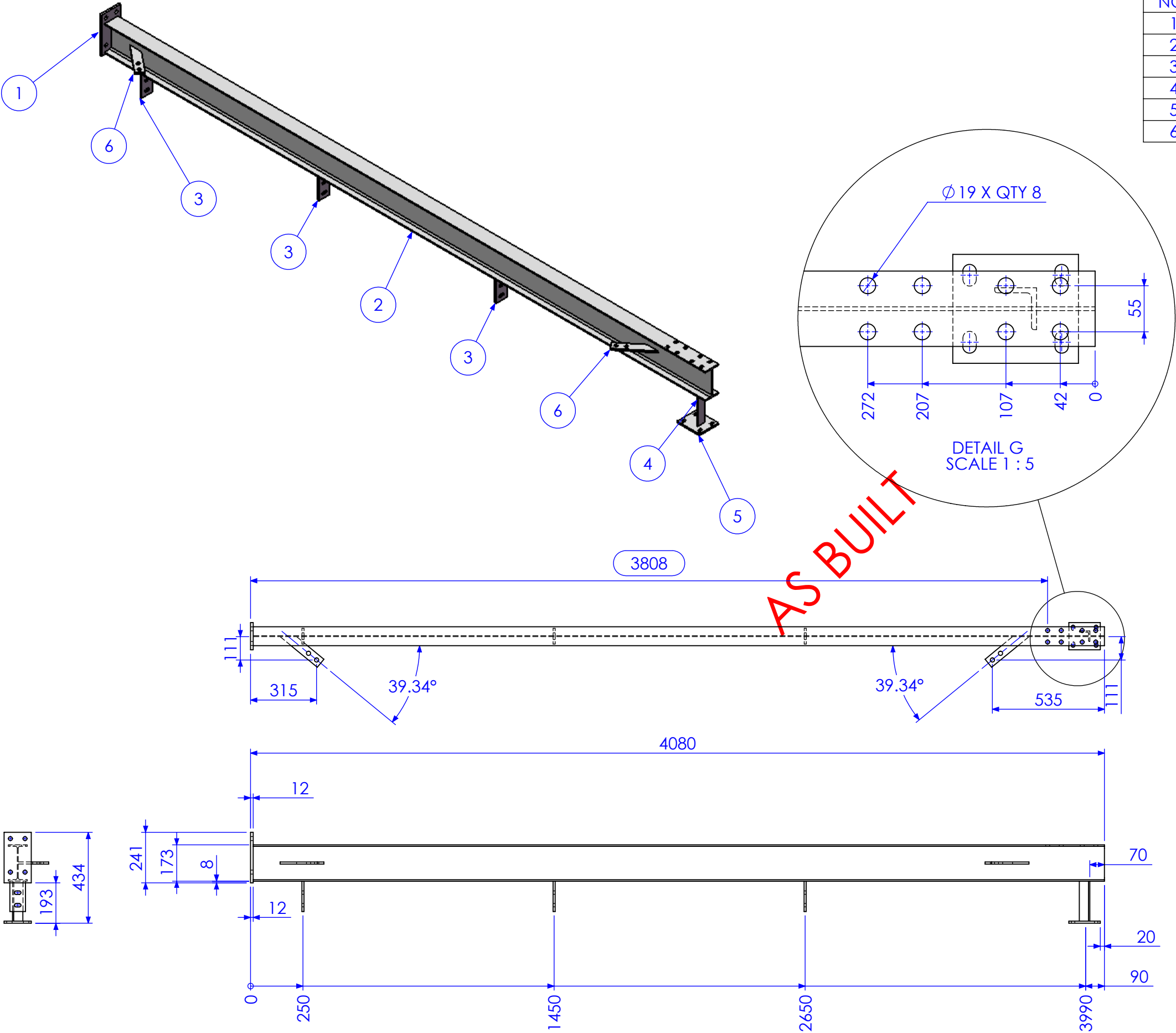
|  |   |
|--|---|
| FINISH REQUIREMENTS-   | HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE) |
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| Fax: 1300 998 983  |   |
| 15/05/2015   |   |

|   |                                |
|---|--------------------------------|
| APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK |
| DRAWING NOTES:  | SCALE 1:20 UNO                 |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.           | DRAWN SB 21/12/12              |
| FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: | CHECK EG/DB/NW -               |
| FABRICATION ± 2.0mm   | APPROVED - -                   |
| MACHINING ± 0.25mm  |                                |

|                    |                  |                                  |
|--------------------|------------------|----------------------------------|
| JOB NUMBER:        | 5248             | QTY: 1                           |
| DESCRIPTION        | COLUMN BMF C1C   | AS1100 THIRD ANGLE PROJECTION A3 |
| DRAWING No.        | 5248-A-A1-A1-P1C | SHEET 4 of 24 REV 06             |
| PURPOSE OF DRAWING | FABRICATION      |                                  |



| ITEM NO. | QTY. | DESCRIPTION | MARK NO. | LENGTH |
|----------|------|-------------|----------|--------|
| 1        | 1    | 130x12 FL   | P1       | 241    |
| 2        | 1    | 180 UB 16.1 | BMF C1   | 4068   |
| 3        | 3    | 75x10 FL    | P3       | 145    |
| 4        | 1    | 50x50x6 EA  | AN1      | 191    |
| 5        | 1    | 130x10 FL   | P5       | 150    |
| 6        | 2    | 50x10 FL    | P19      | 230.5  |



RELEASED FOR MANUFACTURE

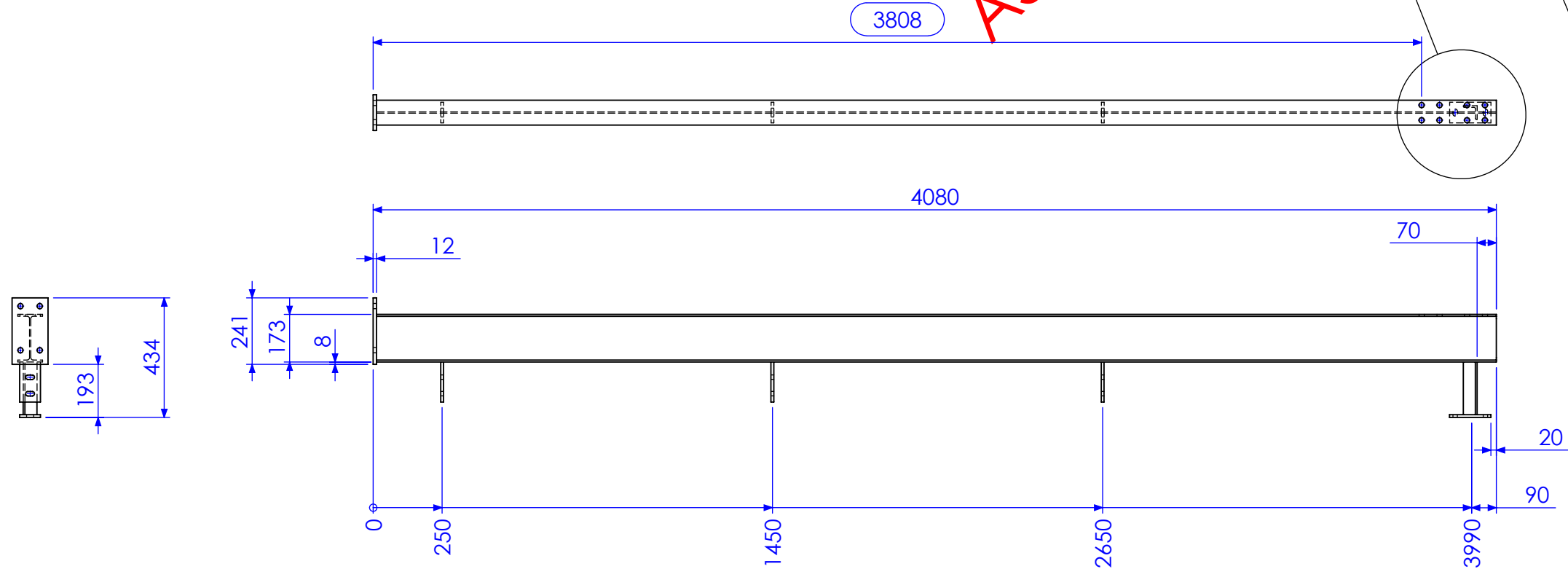
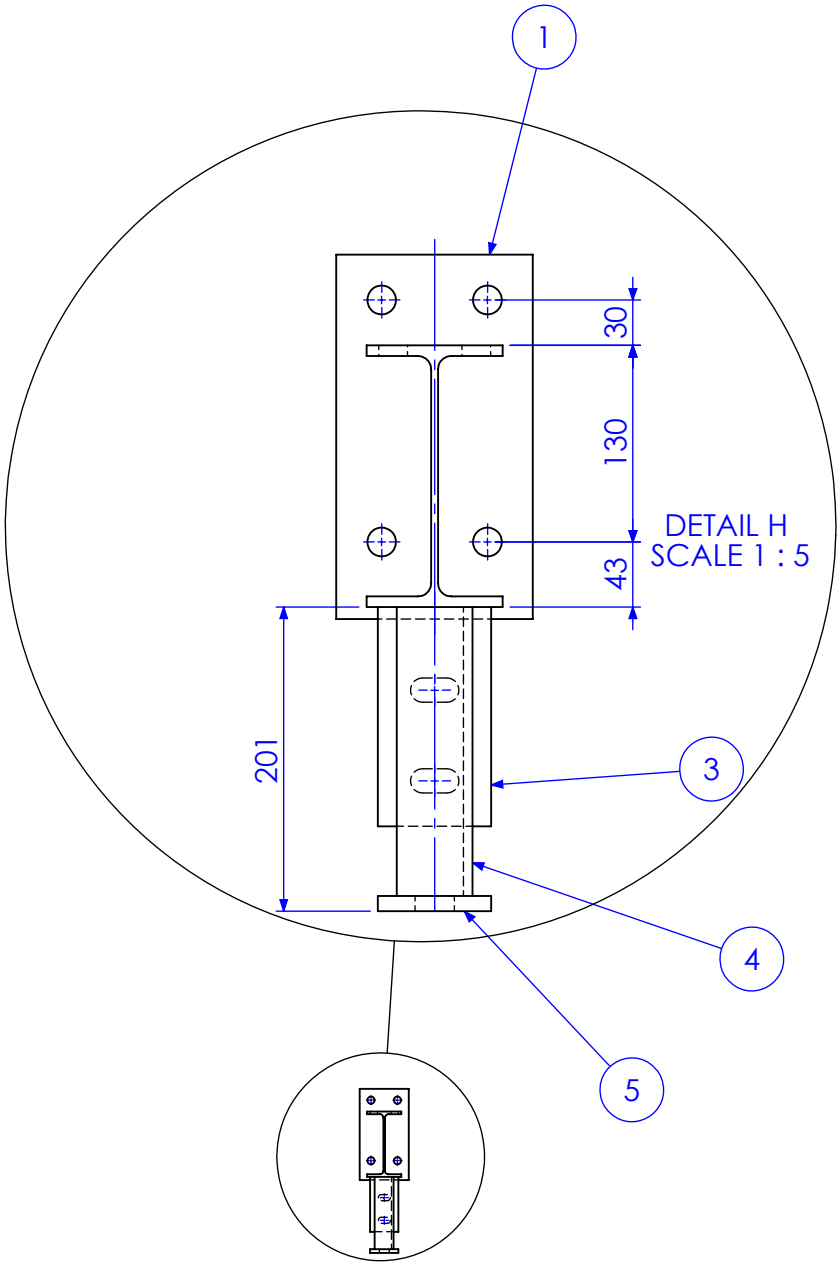
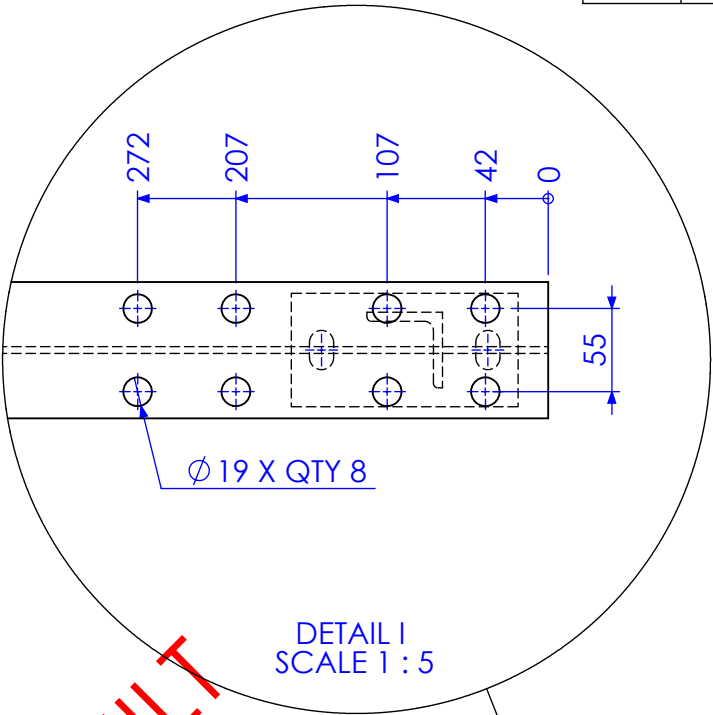
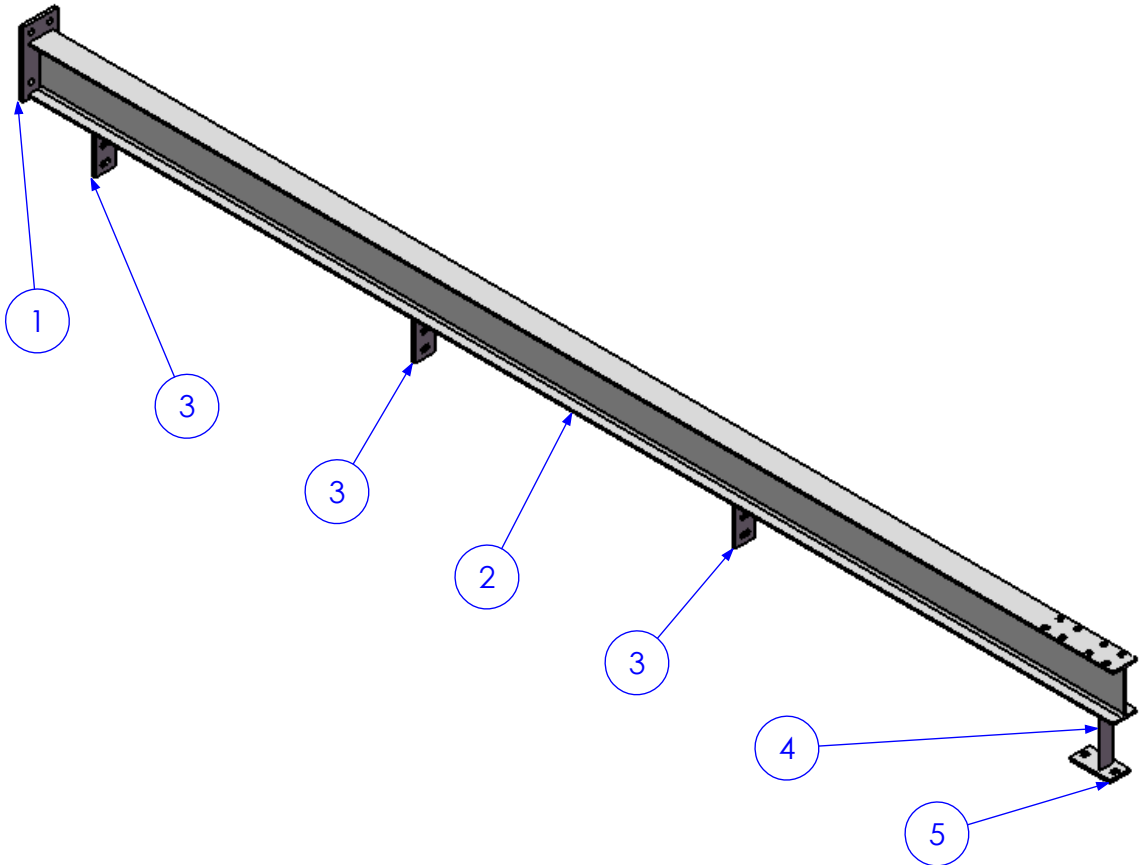
| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

|  |  |
|--|--|
| FINISH REQUIREMENTS-<br>HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE)  | APPROX. MASS:<br>kg  |
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|   |          |                                |
|---|----------|--------------------------------|
| DRAWING NOTES:<br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm |          | DO NOT SCALE IF IN DOUBT - ASK |
| SCALE   | 1:20 UNO |                                |
| DRAWN   | SB       | 21/12/12                       |
| CHECK   | EG/DB/NW | -                              |
| APPROVED  | -        | -                              |

|                    |      |  |   |
|--------------------|------|--|---|
| JOB NUMBER:        | 5248 | QTY:                                   | 1 |
| DESCRIPTION        |      | AS1100<br>THIRD ANGLE PROJECTION<br>A3 |   |
| DRAWING No.        |      | 5248-A-A1-A1-P1E                       |   |
| PURPOSE OF DRAWING |      | SHEET 5 of 24<br>REV 06<br>FABRICATION |   |

| ITEM NO. | QTY. | DESCRIPTION | MARK NO. | LENGTH |
|----------|------|-------------|----------|--------|
| 1        | 1    | 130x12 FL   | P1       | 241    |
| 2        | 1    | 180 UB 16.1 | BMF C1   | 4068   |
| 3        | 3    | 75x10 FL    | P3       | 145    |
| 4        | 1    | 50x50x6 EA  | AN1      | 191    |
| 5        | 1    | 75x10 FL    | P2       | 150    |



RELEASED FOR MANUFACTURE

| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

|  |   |
|--|---|
| FINISH REQUIREMENTS-   | HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE) |
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| 15/05/2015   |   |

|   |                                |
|---|--------------------------------|
| APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK |
| DRAWING NOTES:  | SCALE 1:20 UNO                 |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.           | DRAWN SB 21/12/12              |
| FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: | CHECK EG/DB/NW -               |
| FABRICATION ± 2.0mm   | APPROVED - -                   |
| MACHINING ± 0.25mm  |                                |

|             |                  |                        |
|-------------|------------------|------------------------|
| JOB NUMBER: | 5248             | QTY: 2                 |
| DESCRIPTION | COLUMN BMF C1F   | AS1100                 |
|             |                  | THIRD ANGLE PROJECTION |
|             |                  | SHEET 6 of 24          |
|             |                  | REV 06                 |
| DRAWING No. | 5248-A-A1-A1-P1F | PURPOSE OF DRAWING     |
|             |                  | FABRICATION            |

3158 - Boonah SH - Regional Lagoons Upgrade - Shop

NOTE: WHERE VIEW

1

6

6

2

6

6

5

5

5

5

3

4

4747

5087

12

241

173

8

300

0

250

1450

2650

3850

DETAIL K  
SCALE 1 : 5

312

247

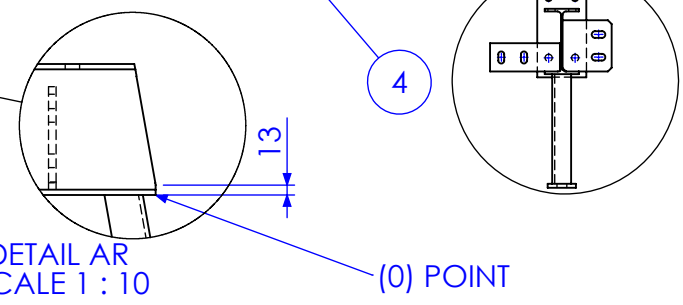
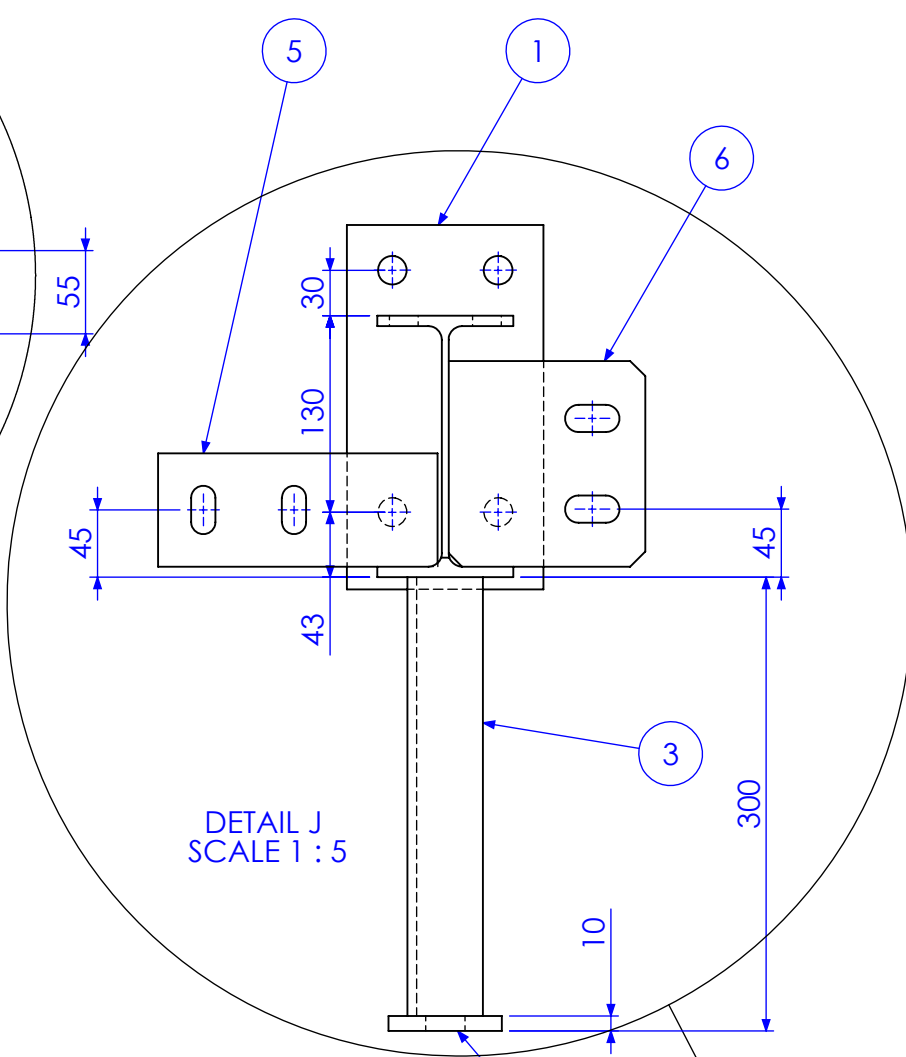
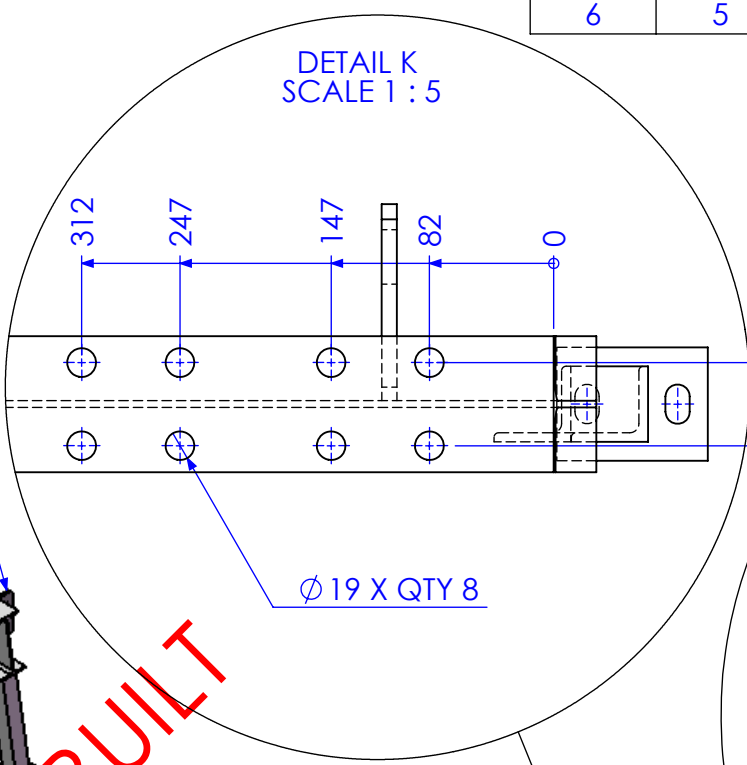
147

82

Ø19 X QTY 8

AS BUILT

Diagram illustrating the 'AS BUILT' condition, showing a vertical post being inserted into a hole, with a large red 'AS BUILT' stamp overlaid.




**RELEASED FOR MANUFACTURE**

|  |  |  |  |
|--|--|--|--|
| <p>FINISH<br/>REQUIREMENTS-</p>  |  | <p>HOT DIPPED GALVANISED (ALLOW FOR<br/>DRAINAGE WHERE APPLICABLE)</p>   |  |
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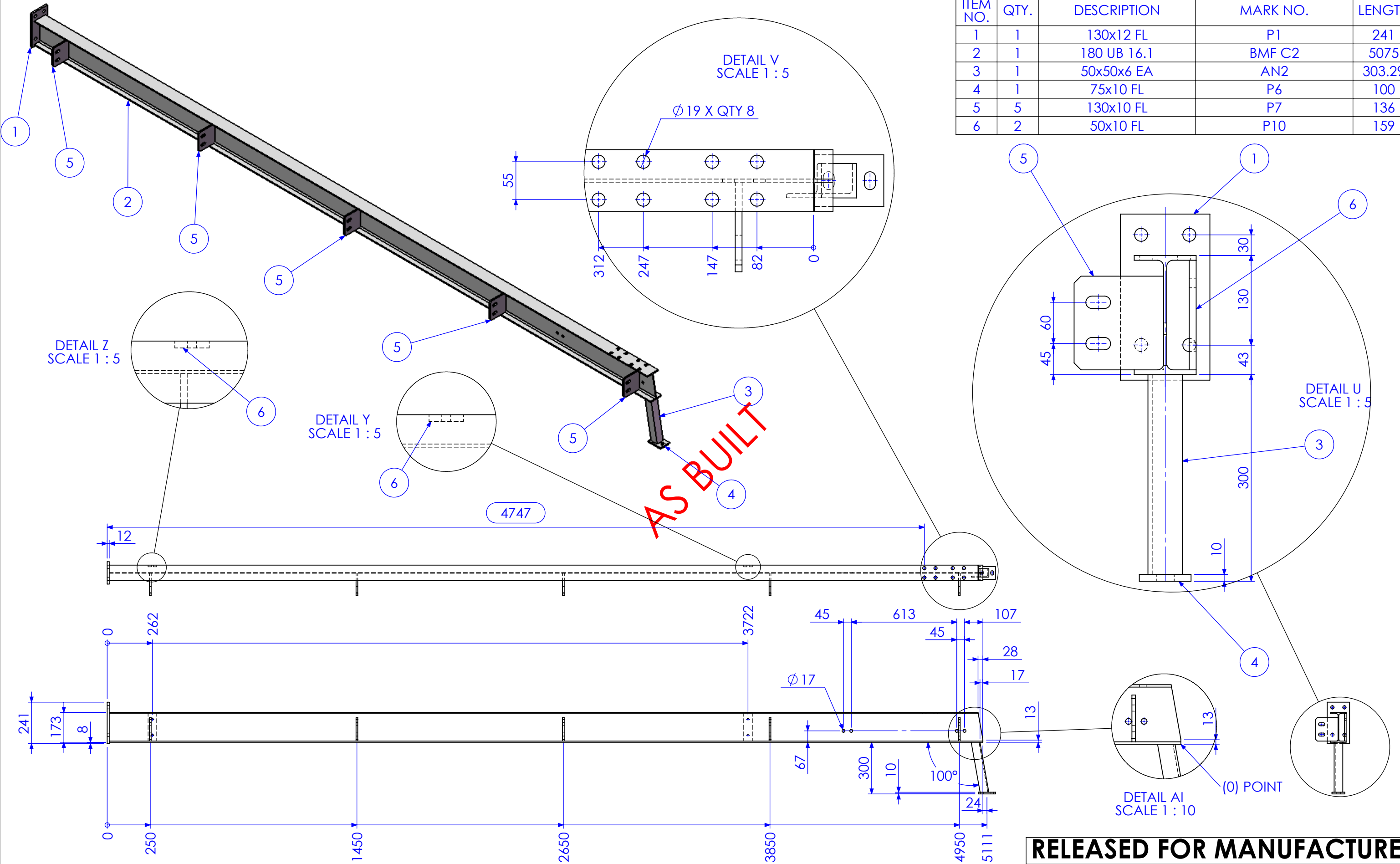
|  |                  |   |       |
|--|------------------|---|-------|
| JOB NUMBER:                              | 5248             | QTY: 1  |       |
| DESCRIPTION<br><br><b>COLUMN BMF C2A</b> |                  | AS1100  |       |
|  |                  | THIRD ANGLE PROJECTION                                    |       |
|  |                  | SHEET 7 of 24   | REV 0 |
| DRAWING NO.                              | 5248-A-A1-A1-P2A | PURPOSE OF DRAWING<br>Page 36 of 95<br><b>FABRICATION</b> |       |



[illegible]

|  |                              |            |             |   |             |  |     |                              |                       |                                 |     |    |                          |           |     |    |                              |            |     |    |               |            |     |     |            |      |             |  |  |  |  |   |  |   |  |                                |  |
|--|------------------------------|------------|-------------|---|-------------|--|-----|------------------------------|-----------------------|---------------------------------|-----|----|--------------------------|-----------|-----|----|------------------------------|------------|-----|----|---------------|------------|-----|-----|------------|------|-------------|--|--|--|--|---|--|---|--|--------------------------------|--|
|  |                              |            |             | FINISH REQUIREMENTS-<br>HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE) |             | APPROX. MASS: kg<br>DO NOT SCALE IF IN DOUBT - ASK |     | JOB NUMBER: 5248             |                       | QTY: 1                          |     |    |                          |           |     |    |                              |            |     |    |               |            |     |     |            |      |             |  |  |  |  |   |  |   |  |                                |  |
| <table border="1"> <tr> <td>02</td> <td>ADD BRACING</td> <td>2/01/2013</td> <td>SDB</td> </tr> <tr> <td>03</td> <td>ALTER TO SITE MEASURE</td> <td>7/01/2013</td> <td>SDB</td> </tr> <tr> <td>04</td> <td>RELEASED FOR MANUFACTURE</td> <td>9/01/2013</td> <td>SDB</td> </tr> <tr> <td>05</td> <td>ADD EXTRA DIMS FOR BEAM LINE</td> <td>11/01/2013</td> <td>SDB</td> </tr> <tr> <td>06</td> <td>AS BUILT DRGS</td> <td>28/06/2013</td> <td>SDB</td> </tr> <tr> <td>REV</td> <td>AMMENDMENT</td> <td>DATE</td> <td>AMMENDED BY</td> </tr> </table> |                              |            |             | 02  | ADD BRACING | 2/01/2013  | SDB | 03                           | ALTER TO SITE MEASURE | 7/01/2013                       | SDB | 04 | RELEASED FOR MANUFACTURE | 9/01/2013 | SDB | 05 | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB | 06 | AS BUILT DRGS | 28/06/2013 | SDB | REV | AMMENDMENT | DATE | AMMENDED BY | PROPRIETARY NOTICE<br>THIS DRAWING IS THE PROPERTY OF AUSFAB CONSTRUCTIONS. COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY AUSFAB CONSTRUCTIONS. THE DRAWINGS, IDEAS & INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES. |  |  40 Kenilworth Street,<br>Warwick, Queensland, Australia 4011<br>Phone: 1300 998 983<br>Fax: 1300 998 983 |  | DRAWING NOTES:<br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm |  | SCALE: 1:20 UNO<br>DRAWN: SB 21/12/12<br>CHECK: EG/DB/NW -<br>APPROVED: - - |  | DESCRIPTION:<br>COLUMN BMF C2C |  |
| 02   | ADD BRACING                  | 2/01/2013  | SDB         |   |             |  |     |                              |                       |                                 |     |    |                          |           |     |    |                              |            |     |    |               |            |     |     |            |      |             |  |  |  |  |   |  |   |  |                                |  |
| 03   | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |   |             |  |     |                              |                       |                                 |     |    |                          |           |     |    |                              |            |     |    |               |            |     |     |            |      |             |  |  |  |  |   |  |   |  |                                |  |
| 04   | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |   |             |  |     |                              |                       |                                 |     |    |                          |           |     |    |                              |            |     |    |               |            |     |     |            |      |             |  |  |  |  |   |  |   |  |                                |  |
| 05   | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |   |             |  |     |                              |                       |                                 |     |    |                          |           |     |    |                              |            |     |    |               |            |     |     |            |      |             |  |  |  |  |   |  |   |  |                                |  |
| 06   | AS BUILT DRGS                | 28/06/2013 | SDB         |   |             |  |     |                              |                       |                                 |     |    |                          |           |     |    |                              |            |     |    |               |            |     |     |            |      |             |  |  |  |  |   |  |   |  |                                |  |
| REV  | AMMENDMENT                   | DATE       | AMMENDED BY |   |             |  |     |                              |                       |                                 |     |    |                          |           |     |    |                              |            |     |    |               |            |     |     |            |      |             |  |  |  |  |   |  |   |  |                                |  |
| Q-Pulse Id TMS1164   |                              |            |             |   |             |  |     | DRAWING No. 5248-A-A1-A1-P2C |                       | PURPOSE OF DRAWING: FABRICATION |     |    |                          |           |     |    |                              |            |     |    |               |            |     |     |            |      |             |  |  |  |  |   |  |   |  |                                |  |

| ITEM NO. | QTY. | DESCRIPTION | MARK NO. | LENGTH |
|----------|------|-------------|----------|--------|
| 1        | 1    | 130x12 FL   | P1       | 241    |
| 2        | 1    | 180 UB 16.1 | BMF C2   | 5075   |
| 3        | 1    | 50x50x6 EA  | AN2      | 303.29 |
| 4        | 1    | 75x10 FL    | P6       | 100    |
| 5        | 5    | 130x10 FL   | P7       | 136    |
| 6        | 2    | 50x10 FL    | P10      | 159    |



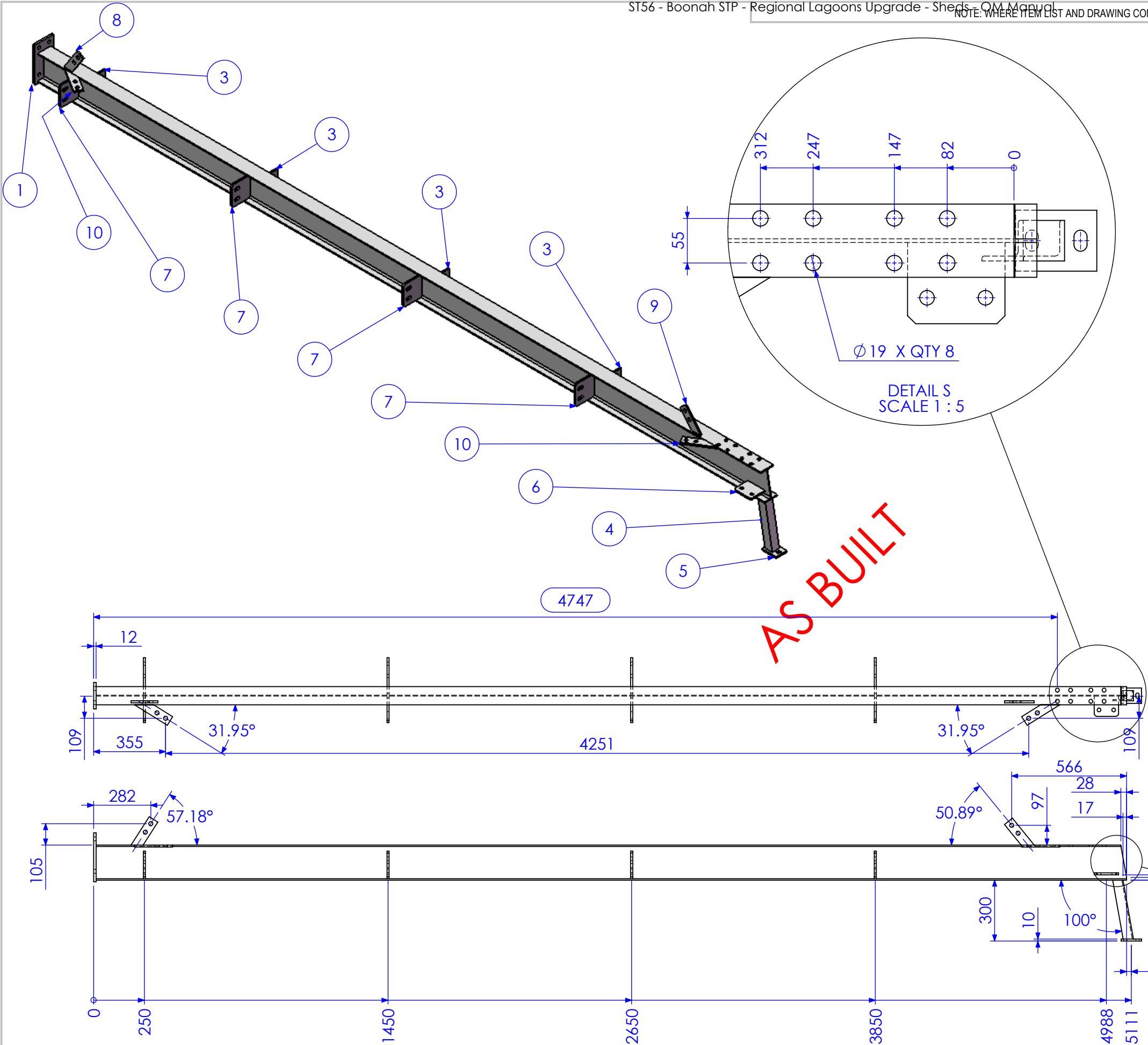
RELEASED FOR MANUFACTURE

| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

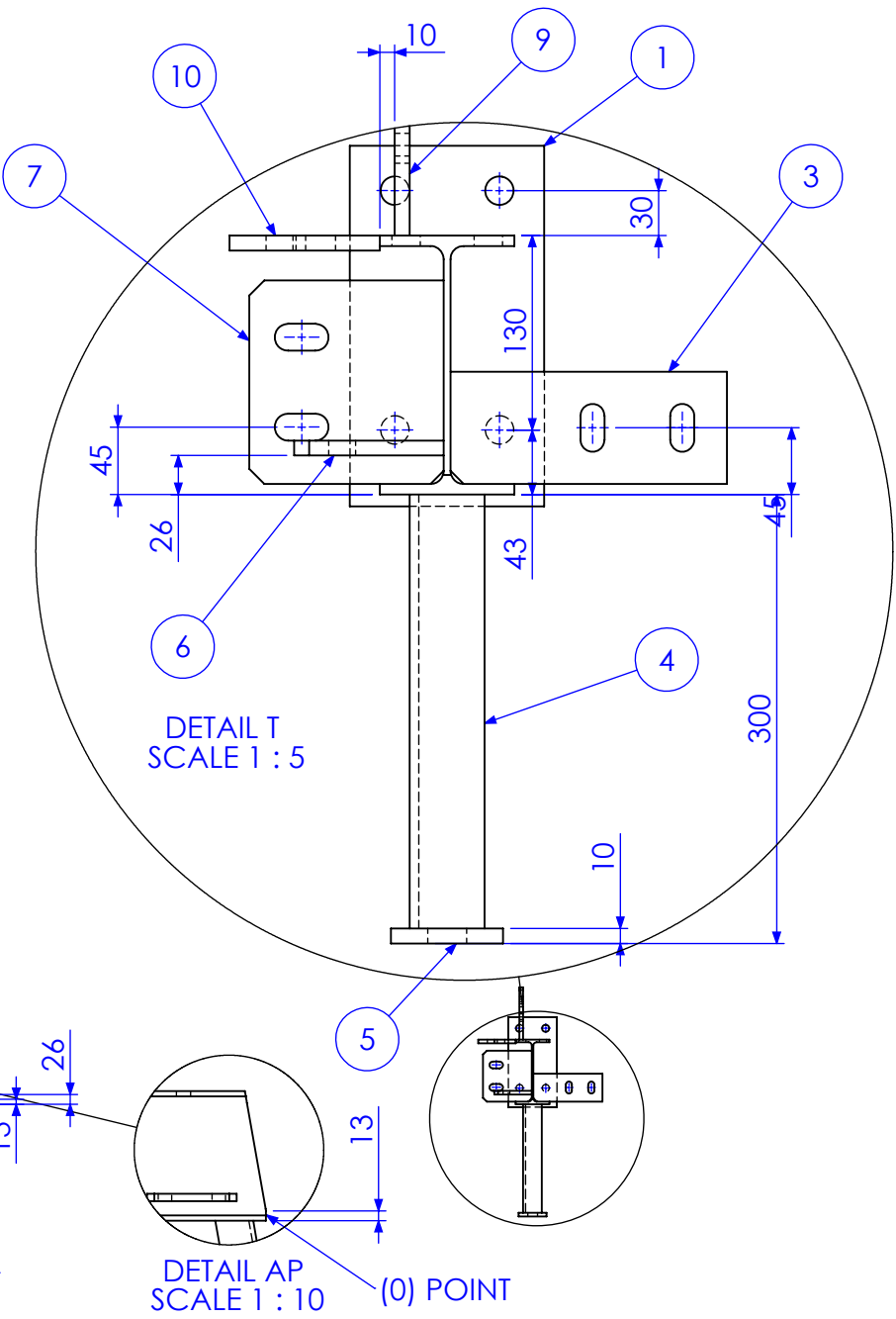
|  |   |
|--|---|
| FINISH REQUIREMENTS-   | HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE) |
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| Phone: 1300 995 970  |   |
| Fax: 1300 998 983  |   |
| 15/05/2015   |   |

|   |                                |
|---|--------------------------------|
| APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK |
| DRAWING NOTES:  |                                |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.           |                                |
| FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: |                                |
| FABRICATION ± 2.0mm   |                                |
| MACHINING ± 0.25mm  |                                |
| SCALE   | 1:20 UNO                       |
| DRAWN   | SB 21/12/12                    |
| CHECK   | EG/DB/NW -                     |
| APPROVED  | - -                            |

|                    |                        |        |
|--------------------|------------------------|--------|
| JOB NUMBER:        | 5248                   | QTY: 1 |
| DESCRIPTION        | COLUMN BMF C2D         |        |
| DRAWING No.        | 5248-A-A1-A1-P2D       |        |
| AS1100             | THIRD ANGLE PROJECTION | A3     |
| SHEET 9 of 24      | REV                    | 06     |
| PURPOSE OF DRAWING | FABRICATION            |        |



| ITEM NO. | QTY. | DESCRIPTION | MARK NO. | LENGTH |
|----------|------|-------------|----------|--------|
| 1        | 1    | 130x12 FL   | P1       | 241    |
| 2        | 1    | 180 UB 16.1 | BMF C2   | 5075   |
| 3        | 4    | 75x10 FL    | P4       | 185    |
| 4        | 1    | 50x50x6 EA  | AN2      | 303.29 |
| 5        | 1    | 75x10 FL    | P6       | 100    |
| 6        | 1    | 100x10 FL   | P9       | 120    |
| 7        | 4    | 130x10 FL   | P7       | 136    |
| 8        | 1    | 50x10 FL    | P21      | 166.12 |
| 9        | 1    | 50x10 FL    | P20      | 170.33 |
| 10       | 2    | 50x10 FL    | P25      | 190.09 |



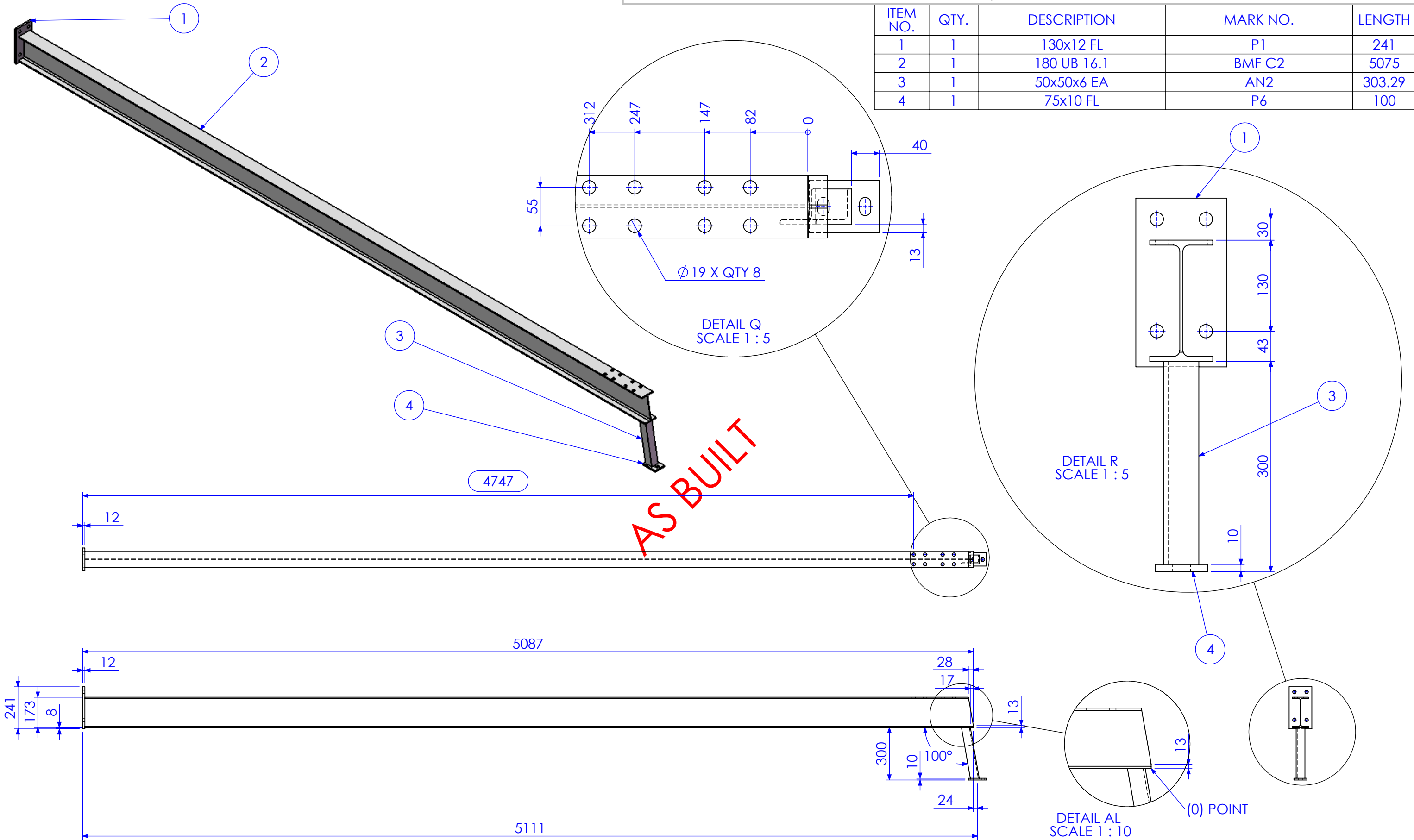
RELEASED FOR MANUFACTURE

| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

|  |   |
|--|---|
| FINISH REQUIREMENTS-   | HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE) |
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|   |   |
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|   |                                |
|---|--------------------------------|
| APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK |
| DRAWING NOTES:  | SCALE 1:20 UNO                 |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.           | DRAWN SB 21/12/12              |
| FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: | CHECK EG/DB/NW -               |
| FABRICATION ± 2.0mm   | APPROVED - -                   |
| MACHINING ± 0.25mm  |                                |

|             |                  |                                  |
|-------------|------------------|----------------------------------|
| JOB NUMBER: | 5248             | QTY: 1                           |
| DESCRIPTION | COLUMN BMF C2E   | AS1100 THIRD ANGLE PROJECTION A3 |
| DRAWING No. | 5248-A-A1-A1-P2E | SHEET 10 of 24 REV 06            |
|             |                  | PURPOSE OF DRAWING FABRICATION   |



RELEASED FOR MANUFACTURE

| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   | DATE       | AMMENDED BY |

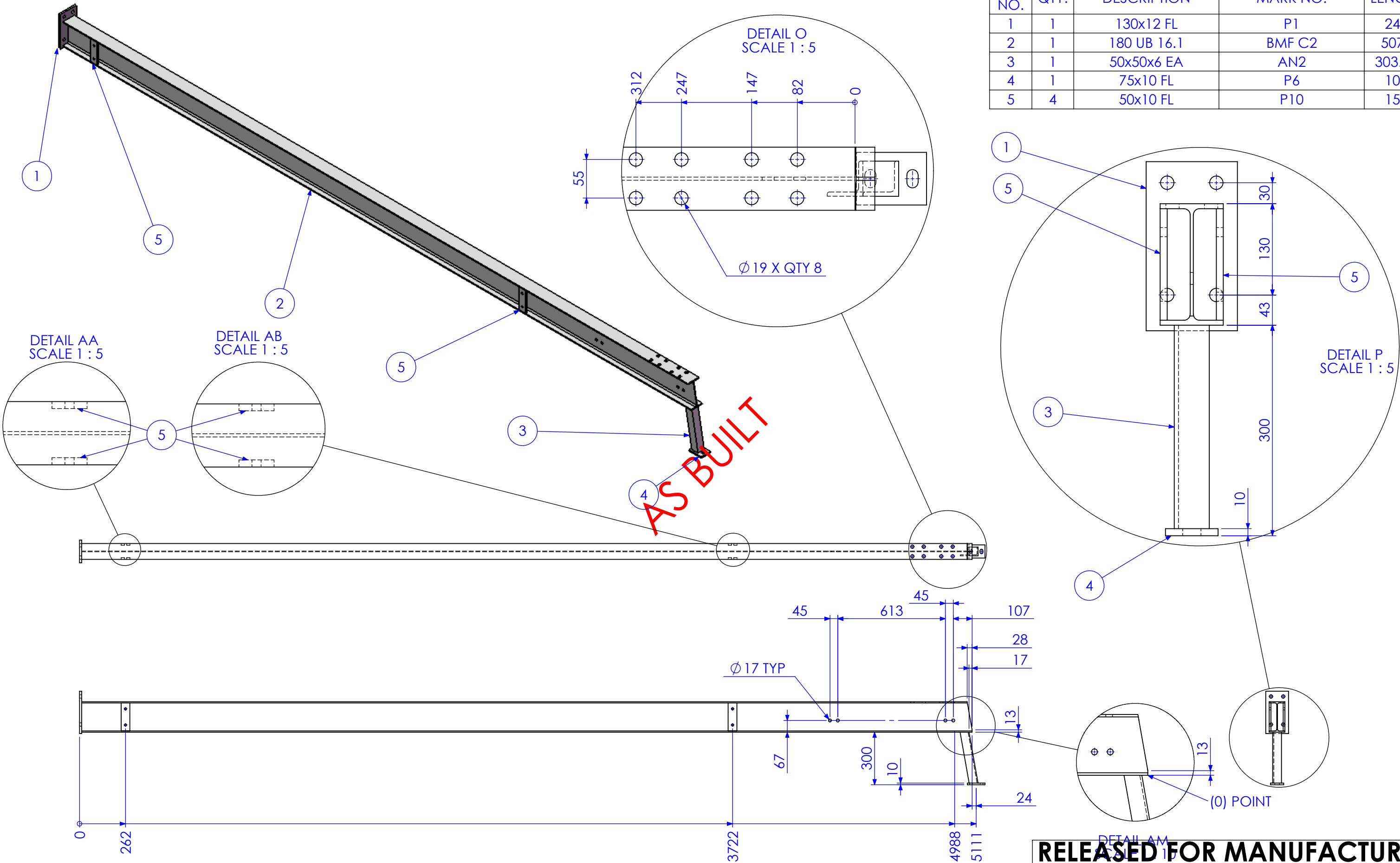
|  |   |
|--|---|
| FINISH REQUIREMENTS-   | HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE) |
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| Phone: 1300 995 970  |   |
| Fax: 1300 998 983  |   |
| 15/05/2015   |   |

|   |                                |
|---|--------------------------------|
| APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK |
| DRAWING NOTES:  |                                |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.           |                                |
| FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: |                                |
| FABRICATION ± 2.0mm   |                                |
| MACHINING ± 0.25mm  |                                |
| SCALE   | 1:20 UNO                       |
| DRAWN   | SB 21/12/12                    |
| CHECK   | EG/DB/NW -                     |
| APPROVED  | - -                            |

|                    |                        |        |
|--------------------|------------------------|--------|
| JOB NUMBER:        | 5248                   | QTY: 1 |
| DESCRIPTION        | COLUMN BMF C2G         |        |
| DRAWING No.        | 5248-A-A1-A1-P2G       |        |
| PURPOSE OF DRAWING | FABRICATION            |        |
| AS1100             | THIRD ANGLE PROJECTION | A3     |
| SHEET 11 of 24     | REV                    | 06     |



| ITEM NO. | QTY. | DESCRIPTION | MARK NO. | LENGTH |
|----------|------|-------------|----------|--------|
| 1        | 1    | 130x12 FL   | P1       | 241    |
| 2        | 1    | 180 UB 16.1 | BMF C2   | 5075   |
| 3        | 1    | 50x50x6 EA  | AN2      | 303.29 |
| 4        | 1    | 75x10 FL    | P6       | 100    |
| 5        | 4    | 50x10 FL    | P10      | 159    |




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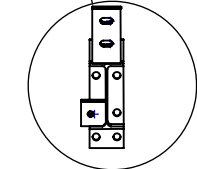
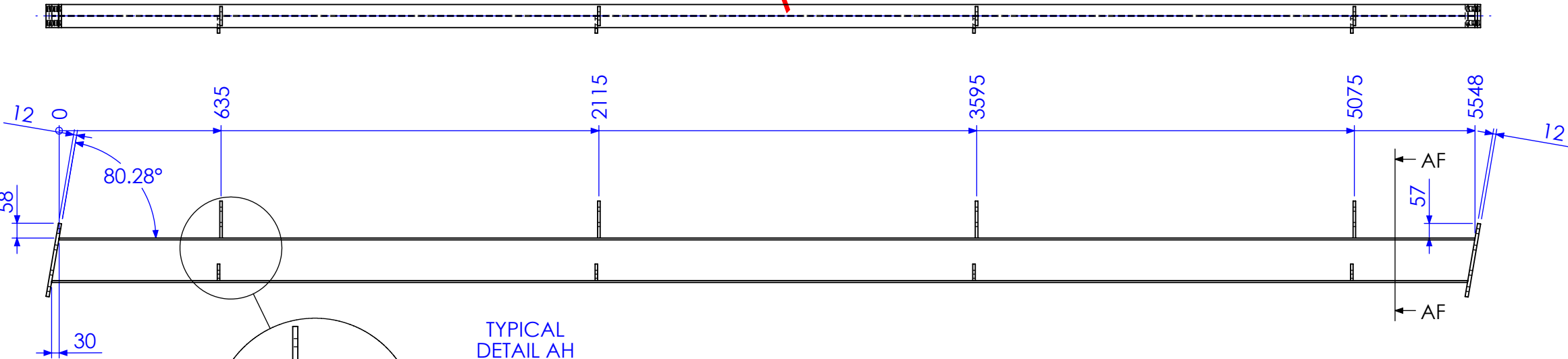
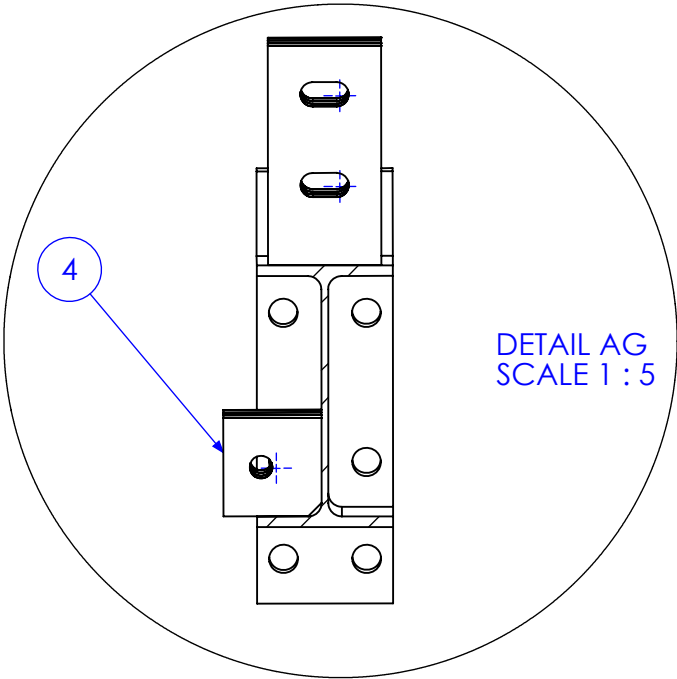
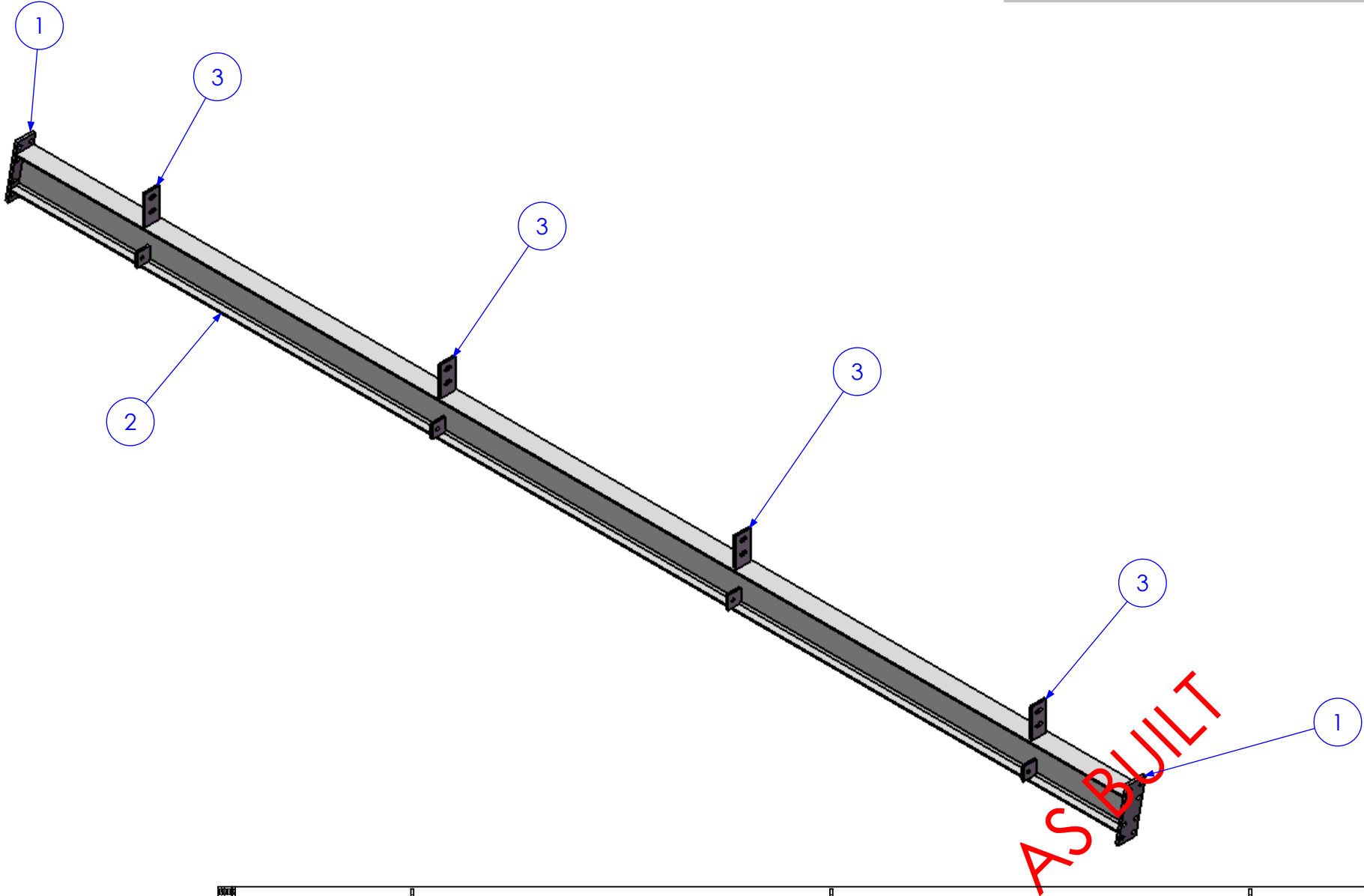
| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

Q-Pulse Id TMS1164

REVISIONS

| FINISH REQUIREMENTS-   | HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE)   | APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK  | JOB NUMBER:                           | 5248  | QTY: 1 |
|--|---|---|---|---------------------------------------|---|--------|
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| ITEM NO. | QTY. | DESCRIPTION | MARK NO. | LENGTH  |
|----------|------|-------------|----------|---------|
| 1        | 2    | 90x12 FL    | P11      | 290     |
| 2        | 1    | 180 UB 16.1 | BMF B3   | 5577.27 |
| 3        | 4    | 75x10 FL    | P3       | 145     |
| 4        | 4    | 65x10 FL    | P28      | 65      |



TYPICAL  
DETAIL AH  
SCALE 1 : 10

RELEASED FOR MANUFACTURE

| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

Q-Pulse Id TMS1164

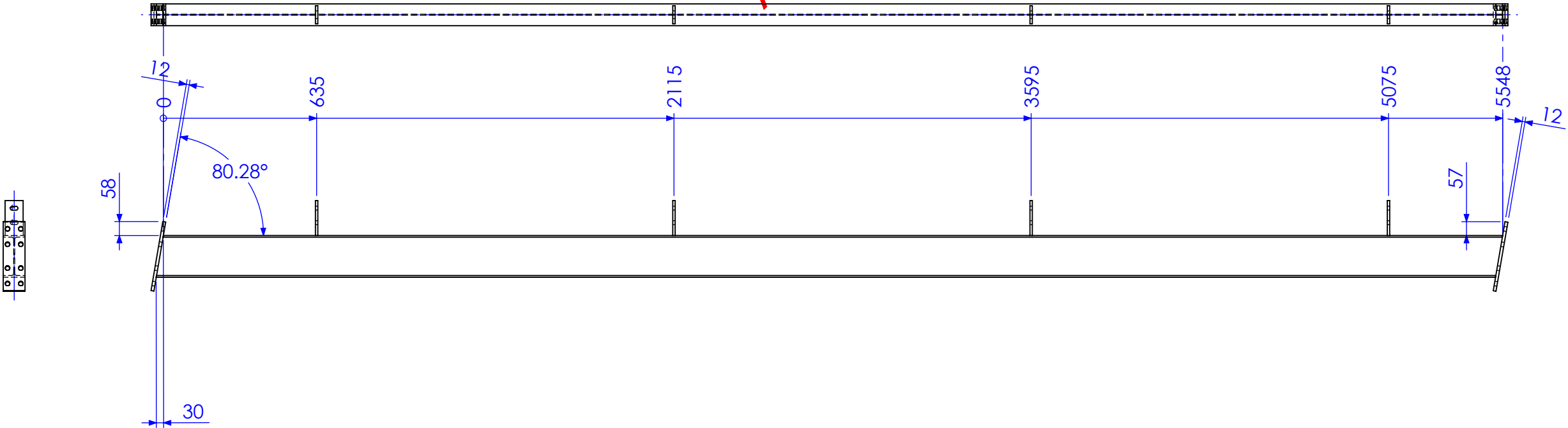
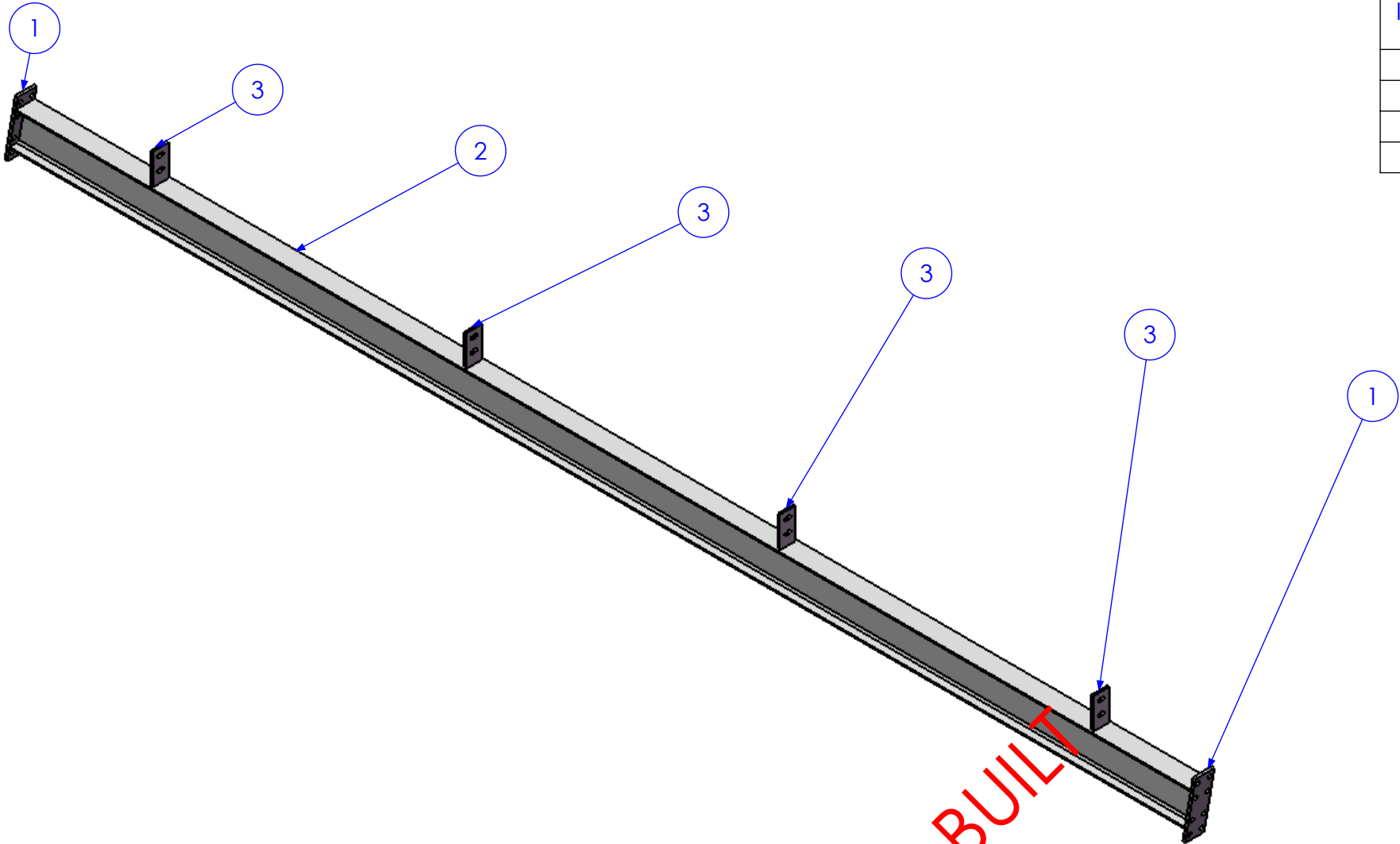
REVISIONS

| FINISH REQUIREMENTS-  | HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE)   |
|---|---|
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| APPROX. MASS:<br>kg   | DO NOT SCALE<br>IF IN DOUBT - ASK                                       | JOB NUMBER:                      | 5248                                     | QTY: 1  |
|---|---|----------------------------------|--|---|
| DRAWING NOTES:<br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm | SCALE 1:20 UNO<br>DRAWN SB 21/12/12<br>CHECK EG/DB/NW -<br>APPROVED - - | DESCRIPTION<br><b>BEAM BMF3A</b> | PURPOSE OF DRAWING<br><b>FABRICATION</b> | AS1100<br>THIRD ANGLE PROJECTION<br>SHEET 13 of 24<br>REV <b>06</b> |
|   |   | DRAWING No.                      | 5248-A-A1-A1-P3A                         | Page 42 of 95   |



| ITEM NO. | QTY. | DESCRIPTION | MARK NO. | LENGTH  |
|----------|------|-------------|----------|---------|
| 1        | 2    | 90x12 FL    | P11      | 290     |
| 2        | 1    | 180 UB 16.1 | BMF B3   | 5577.27 |
| 3        | 4    | 75x10 FL    | P3       | 145     |
| 4        | 4    | 50x10 FL    | P27      | 173.17  |



RELEASED FOR MANUFACTURE

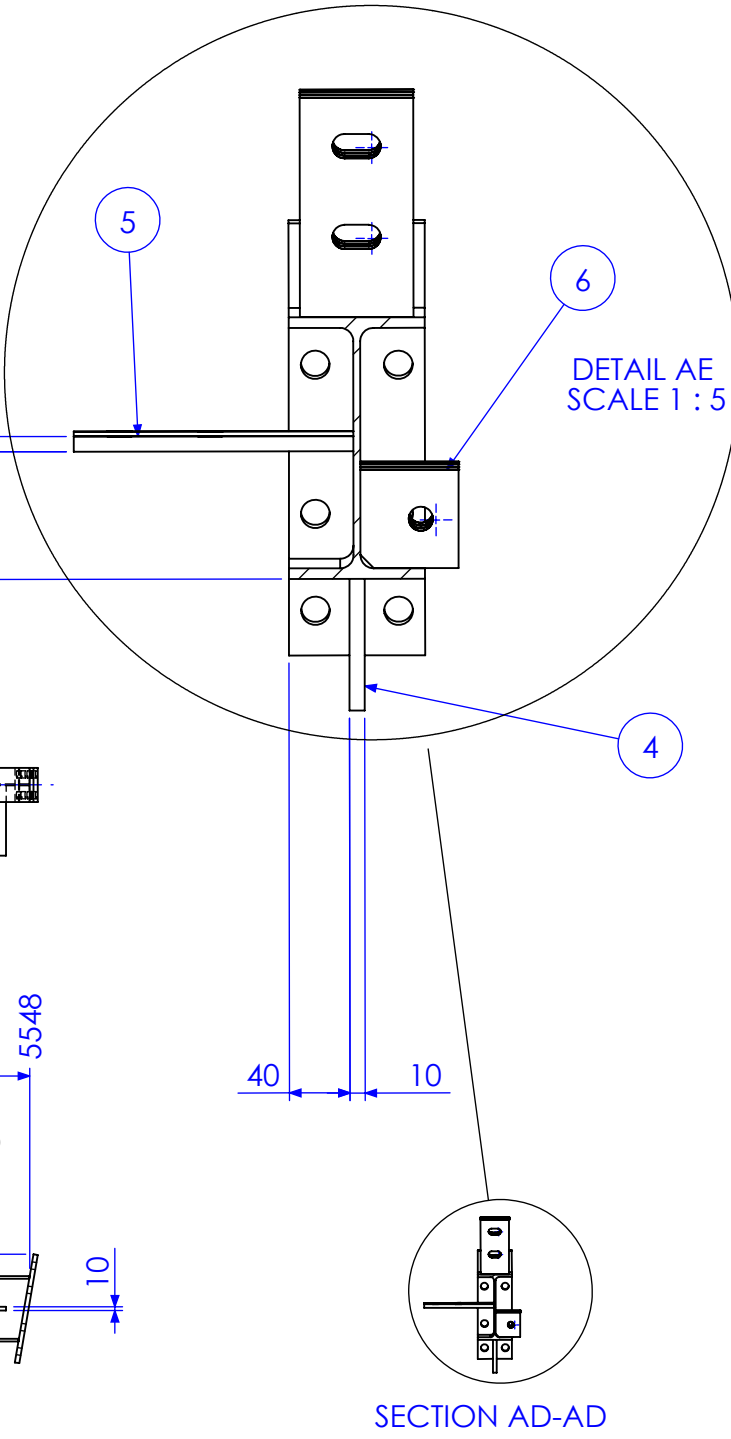
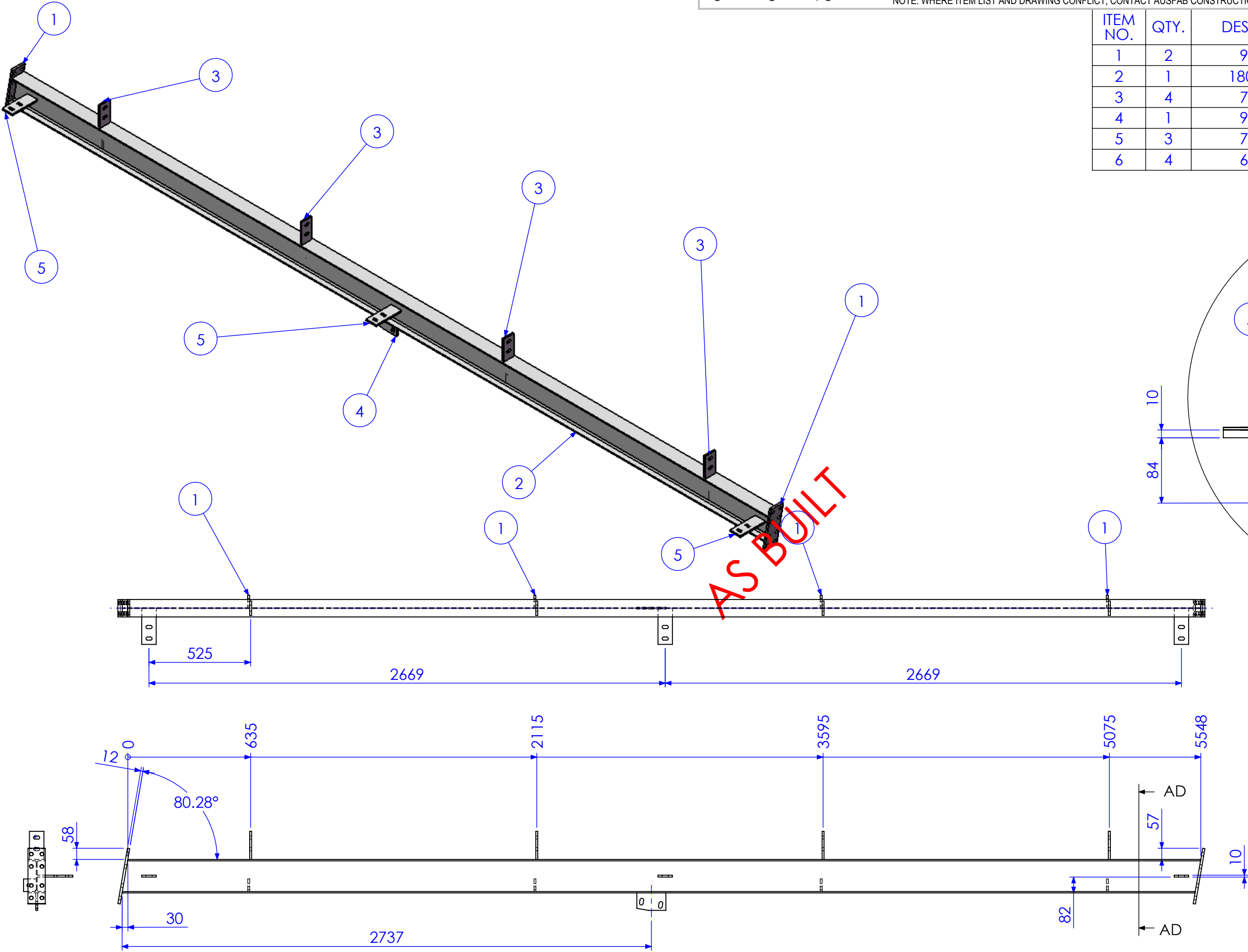
| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

| FINISH REQUIREMENTS-   | HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE)                                     |
|--|---|
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| APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK |
|---|--------------------------------|
| DRAWING NOTES:  | SCALE 1:20 UNO                 |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.           | DRAWN SB 21/12/12              |
| FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: | CHECK EG/DB/NW -               |
| FABRICATION ± 2.0mm   | APPROVED - -                   |
| MACHINING ± 0.25mm  |                                |

| JOB NUMBER: | 5248             | QTY: 2                           |
|-------------|------------------|----------------------------------|
| DESCRIPTION | BEAM BMF3B       | AS1100 THIRD ANGLE PROJECTION A3 |
| DRAWING No. | 5248-A-A1-A1-P3B | SHEET 14 of 24 REV 06            |
|             |                  | PURPOSE OF DRAWING FABRICATION   |

| ITEM NO. | QTY. | DESCRIPTION | MARK NO. | LENGTH  |
|----------|------|-------------|----------|---------|
| 1        | 2    | 90x12 FL    | P11      | 290     |
| 2        | 1    | 180 UB 16.1 | BMF B3   | 5577.27 |
| 3        | 4    | 75x10 FL    | P3       | 145     |
| 4        | 1    | 90x10 FL    | P18      | 150     |
| 5        | 3    | 75x10 FL    | P4       | 185     |
| 6        | 4    | 65x10 FL    | P28      | 65      |



RELEASED FOR MANUFACTURE

| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

FINISH REQUIREMENTS-  
HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE)

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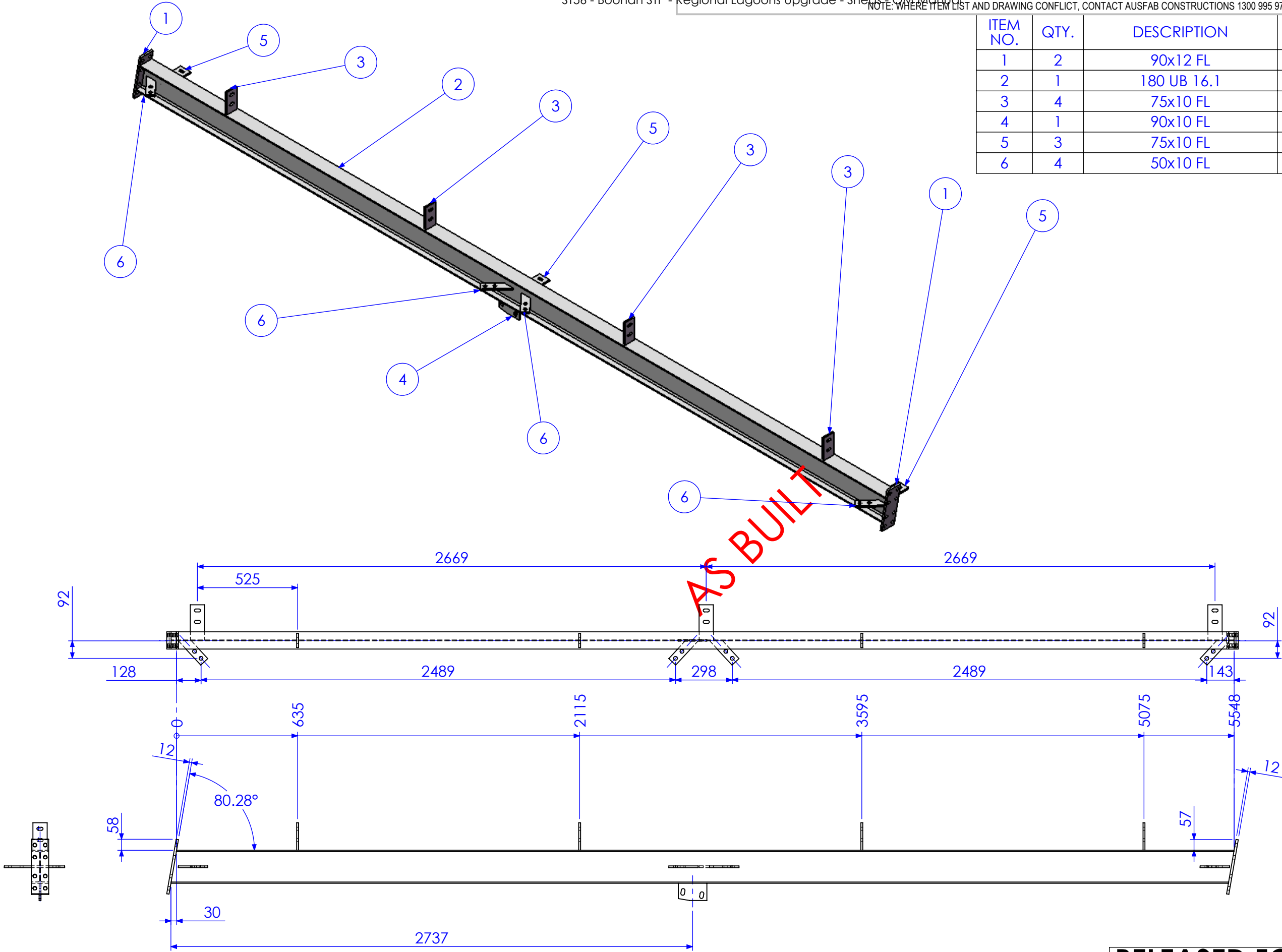
40 Kenilworth Street,  
Warwick, Queensland, Australia 4011  
Phone: 1300 995 970  
Fax: 1300 998 983

15/05/2015

|   |          |                                   |  |
|---|----------|-----------------------------------|--|
| APPROX. MASS:<br>kg   |          | DO NOT SCALE<br>IF IN DOUBT - ASK |  |
| DRAWING NOTES:<br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm |          | SCALE<br>1:20 UNO                 |  |
| DRAWN   | SB       | 21/12/12                          |  |
| CHECK   | EG/DB/NW | -                                 |  |
| APPROVED  | -        | -                                 |  |

|                    |      |                                  |        |
|--------------------|------|----------------------------------|--------|
| JOB NUMBER:        | 5248 | QTY:                             | 1      |
| DESCRIPTION        |      | AS1100<br>THIRD ANGLE PROJECTION |        |
| BEAM BMF3C         |      | SHEET 15 of 24                   | REV 06 |
| DRAWING No.        |      | 5248-A-A1-A1-P3C                 |        |
| PURPOSE OF DRAWING |      | FABRICATION                      |        |

| ITEM NO. | QTY. | DESCRIPTION | MARK NO. | LENGTH  |
|----------|------|-------------|----------|---------|
| 1        | 2    | 90x12 FL    | P11      | 290     |
| 2        | 1    | 180 UB 16.1 | BMF B3   | 5577.27 |
| 3        | 4    | 75x10 FL    | P3       | 145     |
| 4        | 1    | 90x10 FL    | P18      | 150     |
| 5        | 3    | 75x10 FL    | P4       | 185     |
| 6        | 4    | 50x10 FL    | P27      | 173.17  |



RELEASED FOR MANUFACTURE

| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

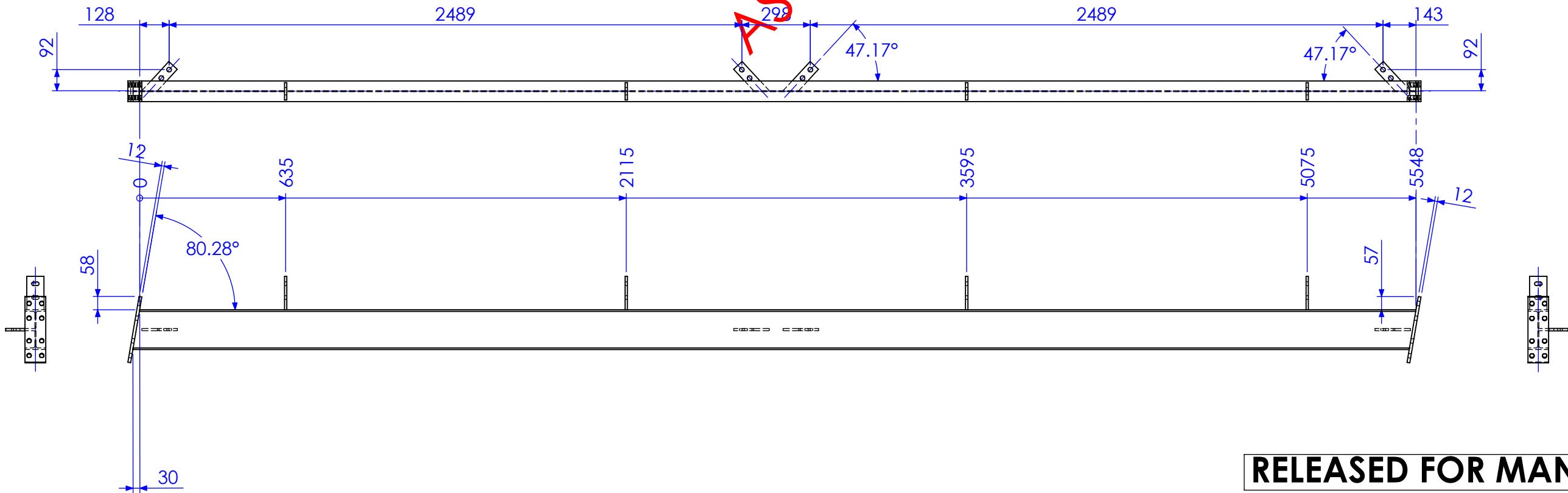
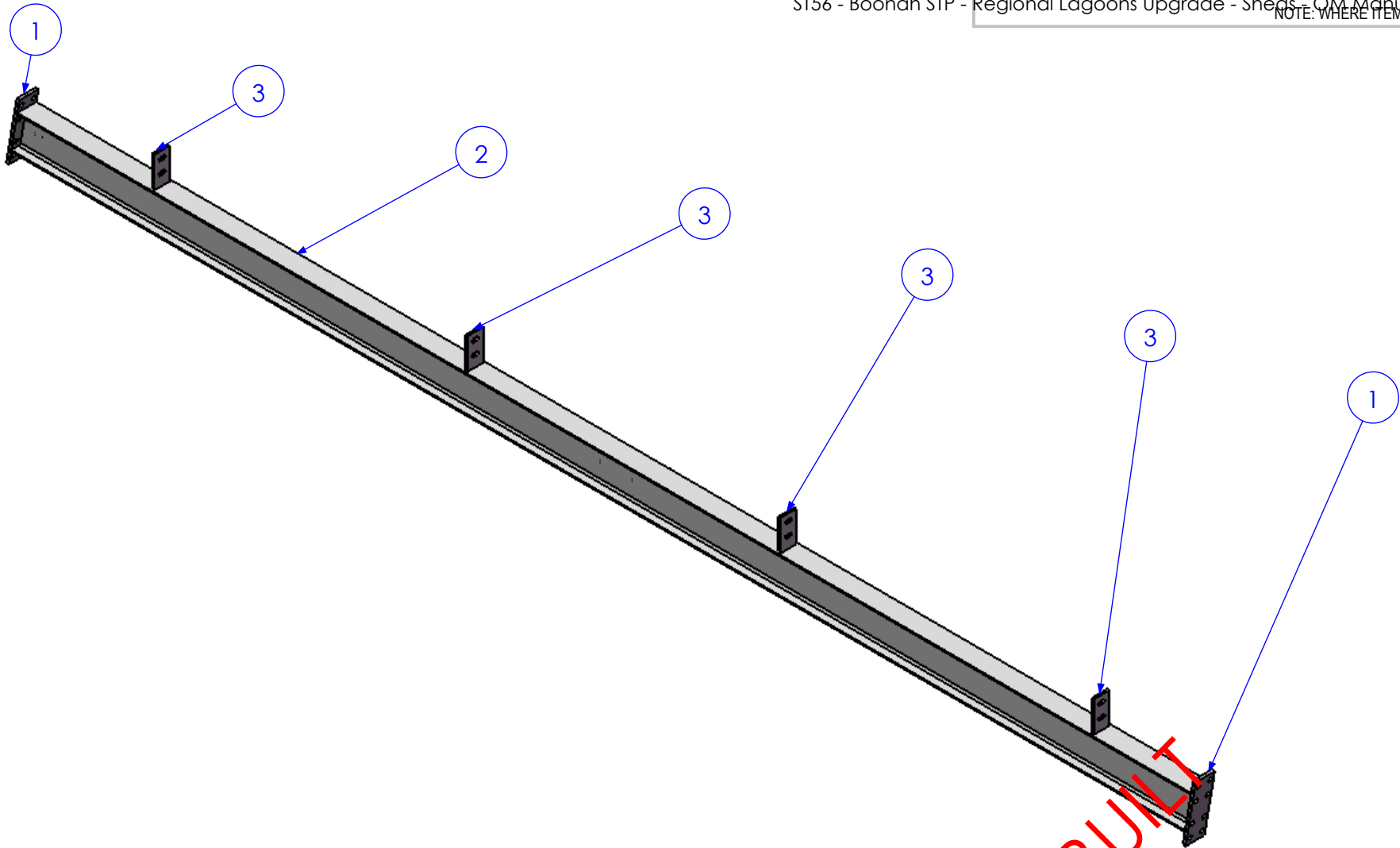
FINISH REQUIREMENTS-  
HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE)

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CONSTRUCTIONS  
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Phone: 1300 995 970  
Fax: 1300 998 983  
15/05/2015

|   |               |                                   |                              |                     |        |
|---|---------------|-----------------------------------|------------------------------|---------------------|--------|
| APPROX. MASS:<br>kg   |               | DO NOT SCALE<br>IF IN DOUBT - ASK |                              | JOB NUMBER:<br>5248 | QTY: 1 |
| DRAWING NOTES:<br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm |               | SCALE<br>1:20 UNO                 | DESCRIPTION<br>BEAM BMF3D    |                     |        |
| CHECK<br>APPROVED   | EG/DB/NW<br>- | 21/12/12                          | DRAWING No. 5248-A-A1-A1-P3D |                     |        |
| PURPOSE OF DRAWING<br>FABRICATION   |               | SHEET 16 of 24 REV 06             |                              |                     |        |

| ITEM NO. | QTY. | DESCRIPTION | MARK NO. | LENGTH  |
|----------|------|-------------|----------|---------|
| 1        | 2    | 90x12 FL    | P11      | 290     |
| 2        | 1    | 180 UB 16.1 | BMF B3   | 5577.27 |
| 3        | 4    | 75x10 FL    | P3       | 145     |
| 4        | 4    | 50x10 FL    | P27      | 173.17  |



RELEASED FOR MANUFACTURE

| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

FINISH REQUIREMENTS-  
HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE)

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Phone: 1300 995 970  
Fax: 1300 998 983

15/05/2015

APPROX. MASS:  
kg

DRAWING NOTES:  
ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.  
FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:  
FABRICATION ± 2.0mm  
MACHINING ± 0.25mm

DO NOT SCALE  
IF IN DOUBT - ASK

|          |             |
|----------|-------------|
| SCALE    | 1:20 UNO    |
| DRAWN    | SB 21/12/12 |
| CHECK    | EG/DB/NW -  |
| APPROVED | - -         |

JOB NUMBER:

5248

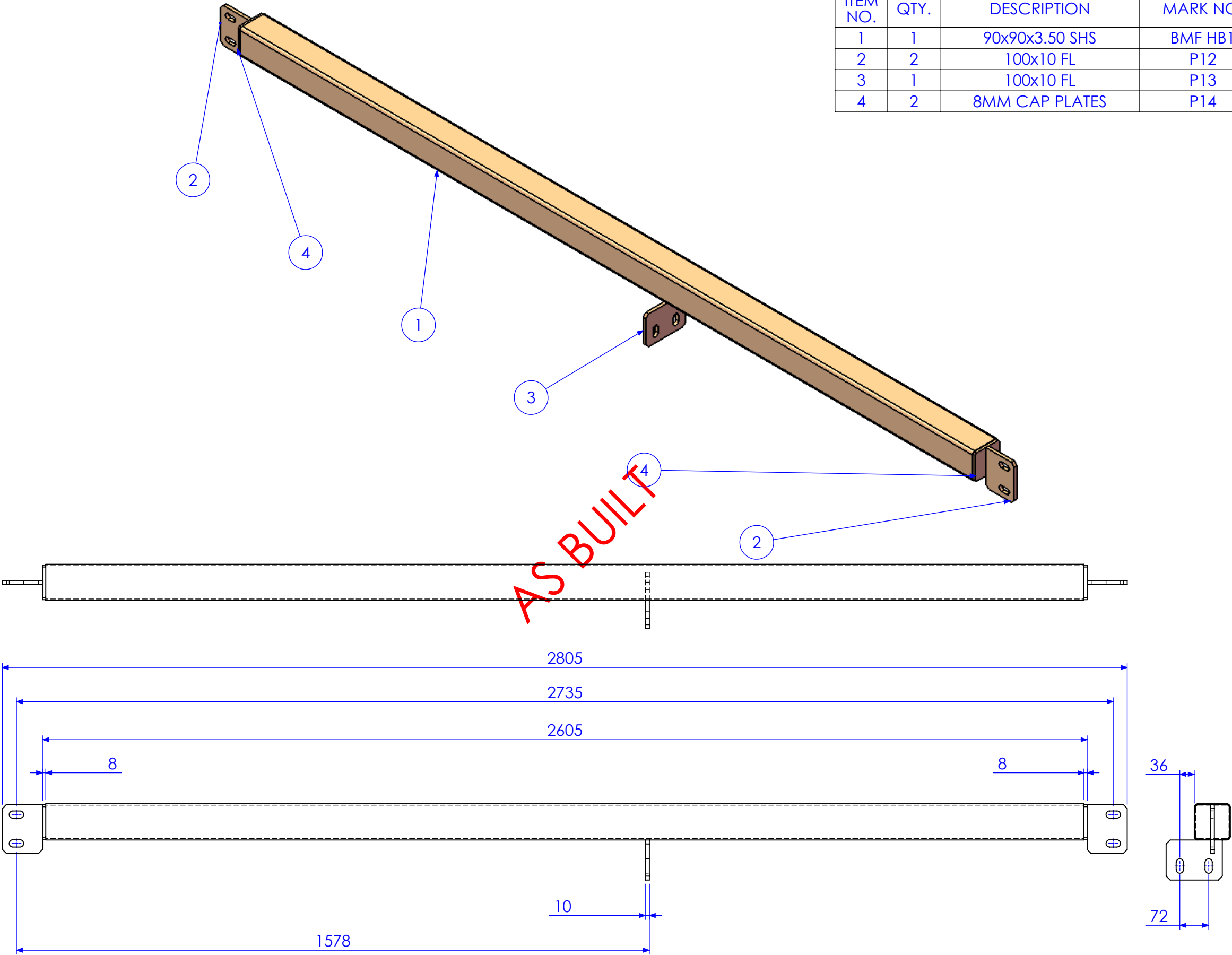
DESCRIPTION

BEAM BMF3E

QTY: 1

AS1100  
THIRD ANGLE PROJECTION  
SHEET 17 of 24  
REV 06  
PURPOSE OF DRAWING  
FABRICATION

| ITEM NO. | QTY. | DESCRIPTION    | MARK NO. | LENGTH        |
|----------|------|----------------|----------|---------------|
| 1        | 1    | 90x90x3.50 SHS | BMF HB1  | 2588.5        |
| 2        | 2    | 100x10 FL      | P12      | 122           |
| 3        | 1    | 100x10 FL      | P13      | 140           |
| 4        | 2    | 8MM CAP PLATES | P14      | 86.50 X 86.50 |



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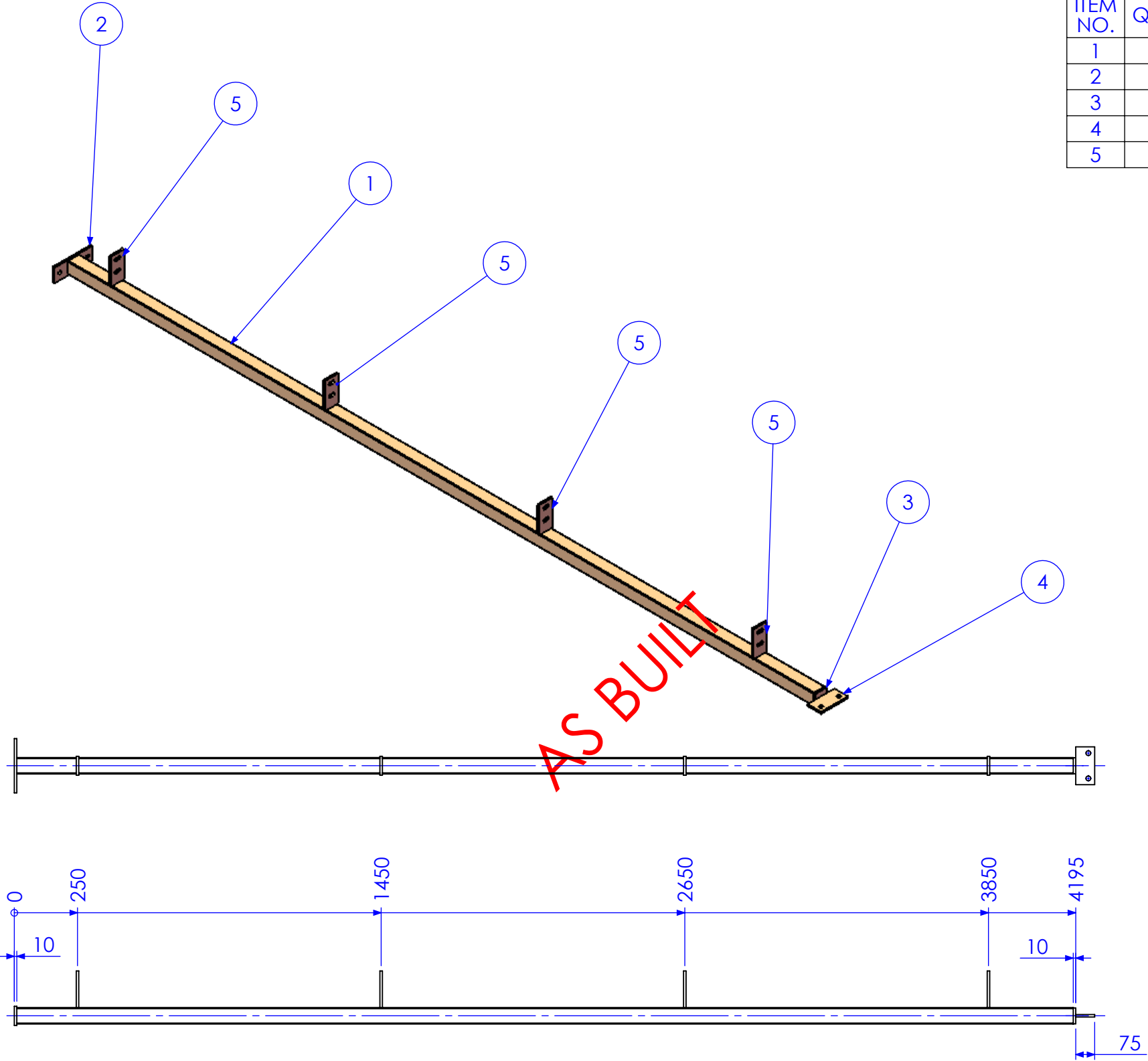
| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

|  |   |
|--|---|
| FINISH REQUIREMENTS-   | HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE) |
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| 15/05/2015   |   |

|   |          |             |
|---|----------|-------------|
| APPROX. MASS: kg  |          |             |
| DRAWING NOTES:  |          |             |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.           |          |             |
| FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: |          |             |
| FABRICATION ± 2.0mm   |          |             |
| MACHINING ± 0.25mm  |          |             |
| DO NOT SCALE IF IN DOUBT - ASK                                | SCALE    | 1:10 UNO    |
|   | DRAWN    | SB 21/12/12 |
|   | CHECK    | EG/DB/NW -  |
|   | APPROVED | - -         |

|                    |      |                                  |
|--------------------|------|----------------------------------|
| JOB NUMBER:        | 5248 | QTY: 1                           |
| DESCRIPTION        |      | AS1100 THIRD ANGLE PROJECTION A3 |
| BMF HEADER BEAM 2  |      | SHEET 18 of 24 REV 06            |
| DRAWING No.        |      | 5248-A-A1-A1-P6                  |
| PURPOSE OF DRAWING |      | FABRICATION                      |

| ITEM NO. | QTY. | DESCRIPTION    | MARK NO. | LENGTH  |
|----------|------|----------------|----------|---------|
| 1        | 1    | 65x65x2 SHS    | BMF M1   | 4175.03 |
| 2        | 1    | 75x10 FL       | P15      | 215     |
| 3        | 1    | 10MM CAP PLATE | P16      | 63 X 63 |
| 4        | 1    | 75x10 FL       | P17      | 150     |
| 5        | 4    | 75x10 FL       | P3       | 145     |



RELEASED FOR MANUFACTURE

| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

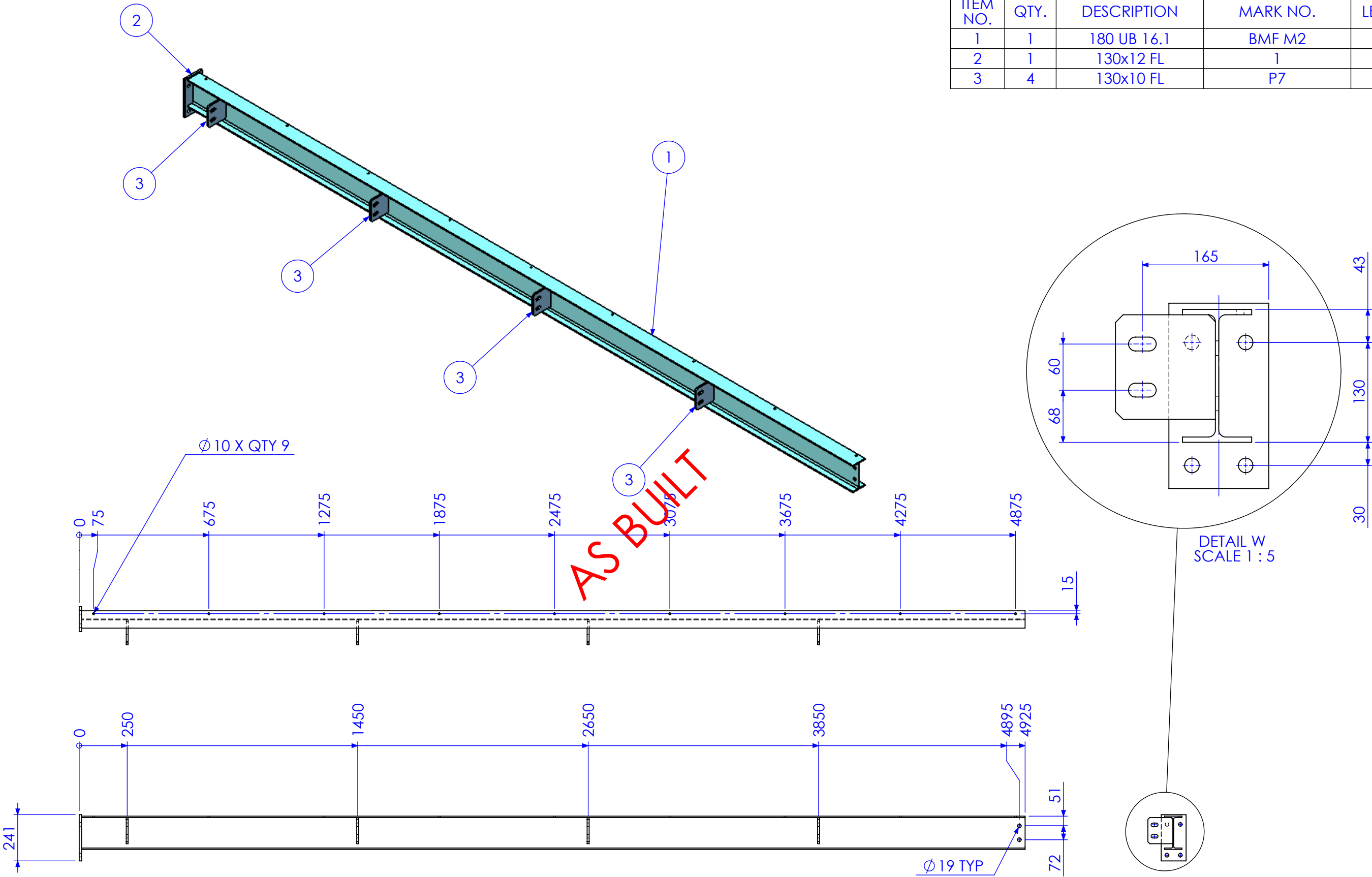
|  |  |
|--|--|
| FINISH REQUIREMENTS-<br>HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE)  | APPROX. MASS:<br>kg  |
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|   |             |                                |
|---|-------------|--------------------------------|
| DRAWING NOTES:<br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm |             | DO NOT SCALE IF IN DOUBT - ASK |
| SCALE   | 1:20 UNO    |                                |
| DRAWN   | SB 21/12/12 |                                |
| CHECK   | EG/DB/NW -  |                                |
| APPROVED  | -           |                                |

|                    |      |  |
|--------------------|------|--|
| JOB NUMBER:        | 5248 | QTY: 2                                 |
| DESCRIPTION        |      | AS1100<br>THIRD ANGLE PROJECTION<br>A3 |
| BMF MULLION 1      |      | SHEET 19 of 24<br>REV 06               |
| DRAWING No.        |      | 5248-A-A1-A1-P4                        |
| PURPOSE OF DRAWING |      | FABRICATION                            |



| ITEM NO. | QTY. | DESCRIPTION | MARK NO. | LENGTH |
|----------|------|-------------|----------|--------|
| 1        | 1    | 180 UB 16.1 | BMF M2   | 4913   |
| 2        | 1    | 130x12 FL   | 1        | 241    |
| 3        | 4    | 130x10 FL   | P7       | 136    |



RELEASED FOR MANUFACTURE

| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

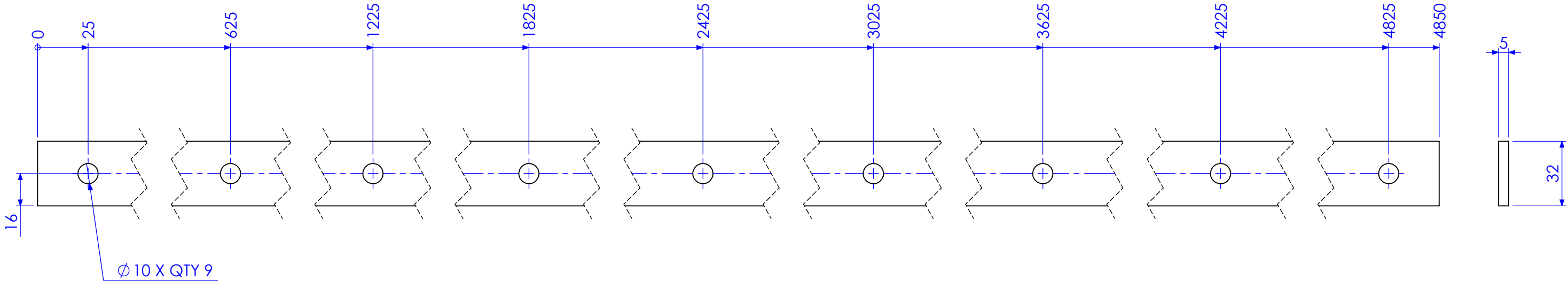
|  |   |
|--|---|
| FINISH REQUIREMENTS-   | HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE) |
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|   |   |
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|   |                                |
|---|--------------------------------|
| APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK |
| DRAWING NOTES:  | SCALE 1:20 UNO                 |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.           | DRAWN SB 21/12/12              |
| FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: | CHECK EG/DB/NW -               |
| FABRICATION ± 2.0mm   | APPROVED - -                   |
| MACHINING ± 0.25mm  |                                |

|                    |                 |                                  |
|--------------------|-----------------|----------------------------------|
| JOB NUMBER:        | 5248            | QTY: 1                           |
| DESCRIPTION        | BMF MULLION 2   | AS1100 THIRD ANGLE PROJECTION A3 |
| DRAWING No.        | 5248-A-A1-A1-P8 | SHEET 20 of 24 REV 06            |
| PURPOSE OF DRAWING | FABRICATION     |                                  |

| DESCRIPTION | MARK NO. | LENGTH |
|-------------|----------|--------|
| 32x5 FL     | BMF MCB  | 4850   |

AS BUILT



RELEASED FOR MANUFACTURE

| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

FINISH REQUIREMENTS-  
HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE)

PROPRIETARY NOTICE

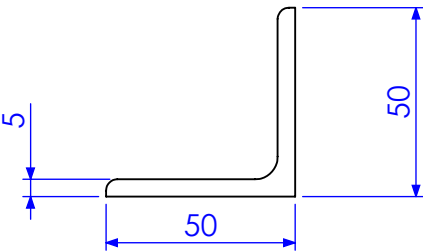
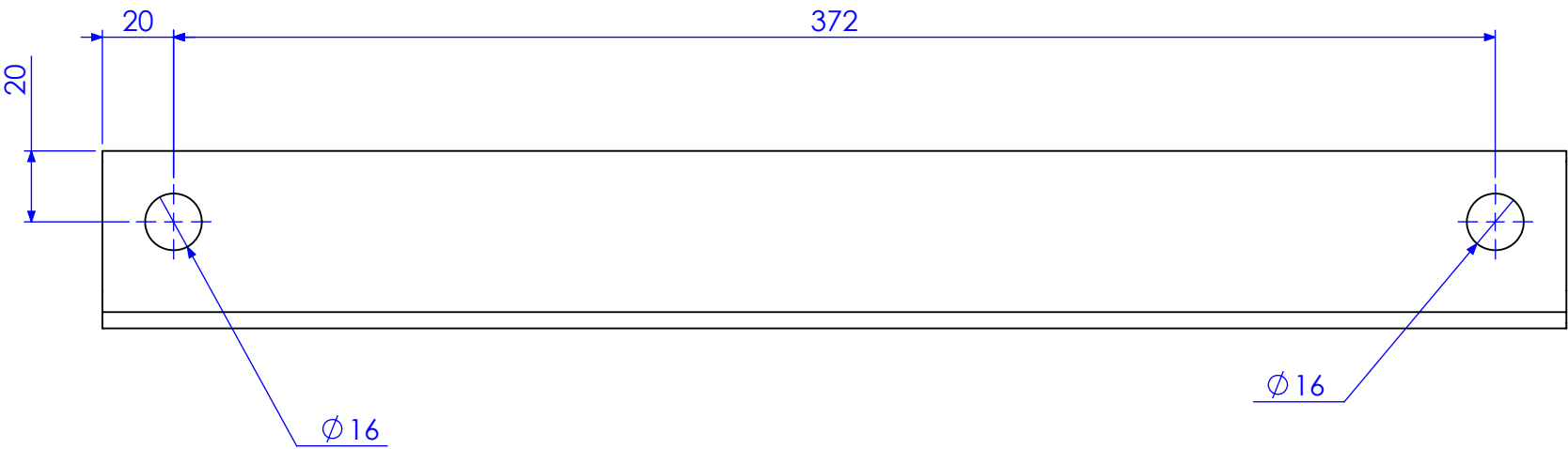
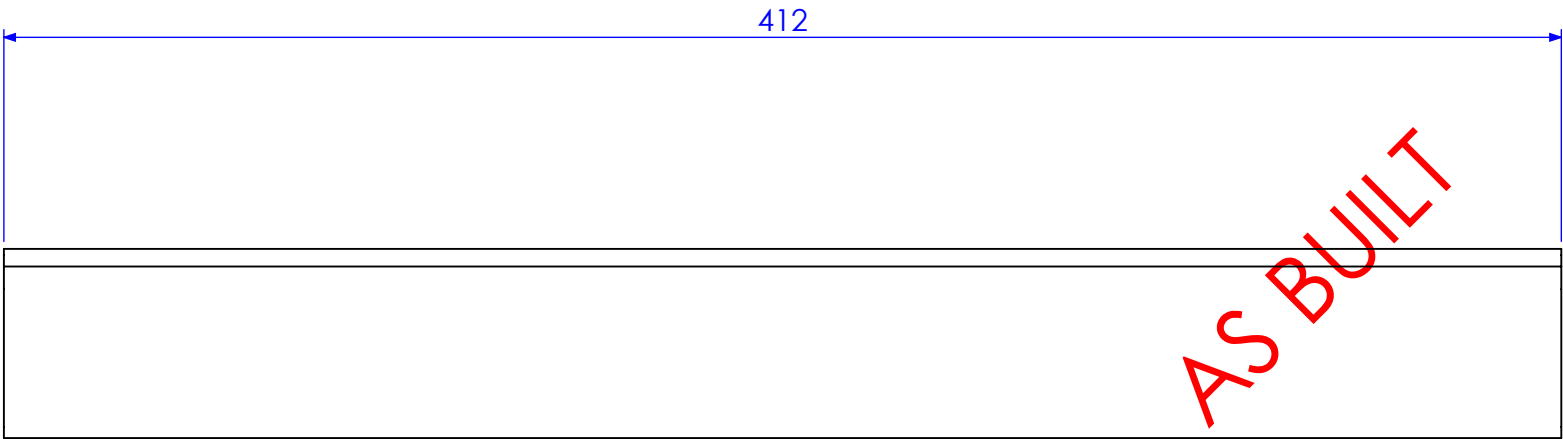
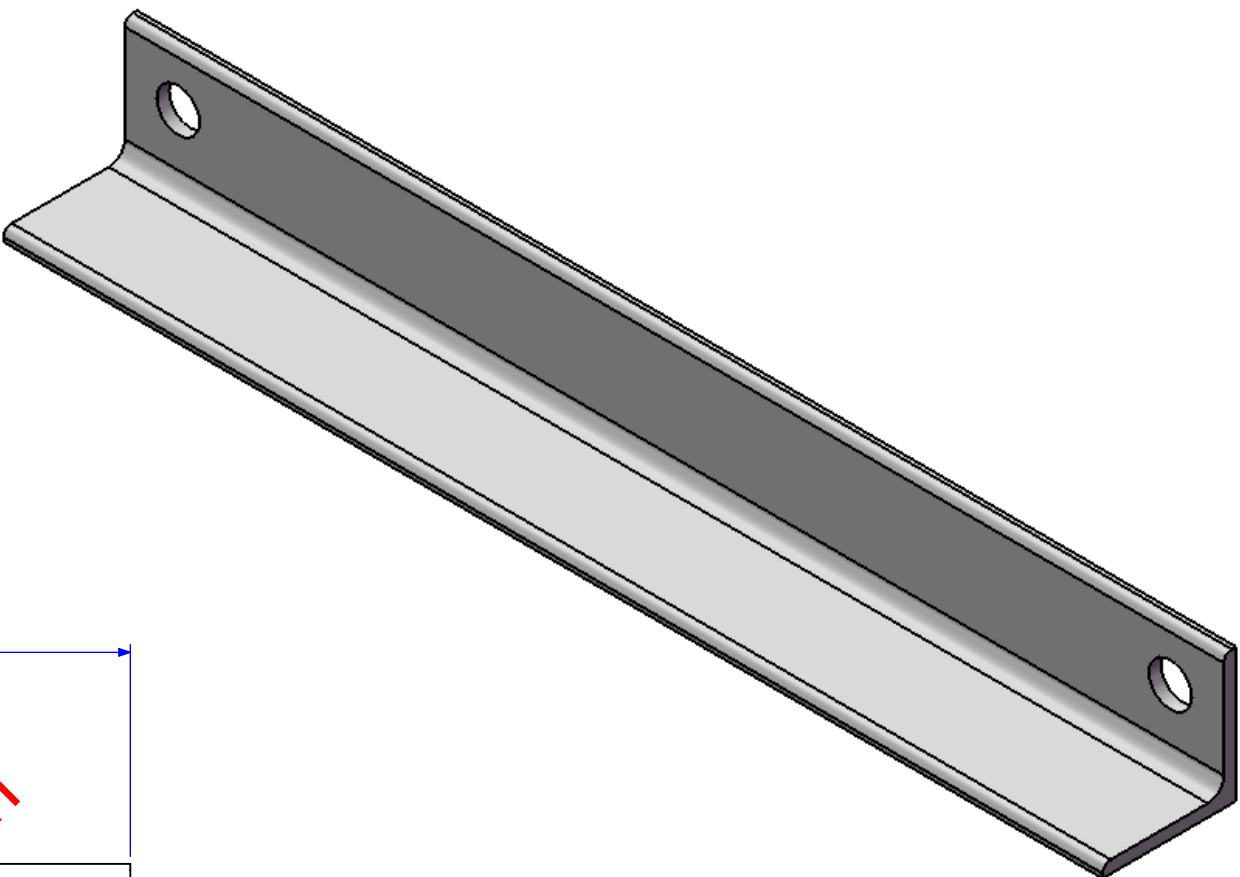
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Phone: 1300 995 970  
Fax: 1300 998 983

15/05/2015

|   |  |                                   |                                |                     |   |
|---|--|-----------------------------------|--------------------------------|---------------------|---|
| APPROX. MASS:<br>kg   |  | DO NOT SCALE<br>IF IN DOUBT - ASK |                                | JOB NUMBER:<br>5248 | QTY: 2  |
| DRAWING NOTES:<br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm |  | SCALE<br>1:2 UNO                  | DESCRIPTION<br>MESH CLAMP BAR  |                     | AS1100<br>THIRD ANGLE PROJECTION<br>SHEET 21 of 24<br>REV 06<br>PURPOSE OF DRAWING<br>FABRICATION |
| DRAWN<br>SB<br>21/12/12   |  | CHECK<br>EG/DB/NW<br>-            | DRAWING No.<br>5248-A-A1-A1-P9 |                     |   |
| APPROVED  |  | -                                 |                                |                     |   |



RELEASED FOR MANUFACTURE

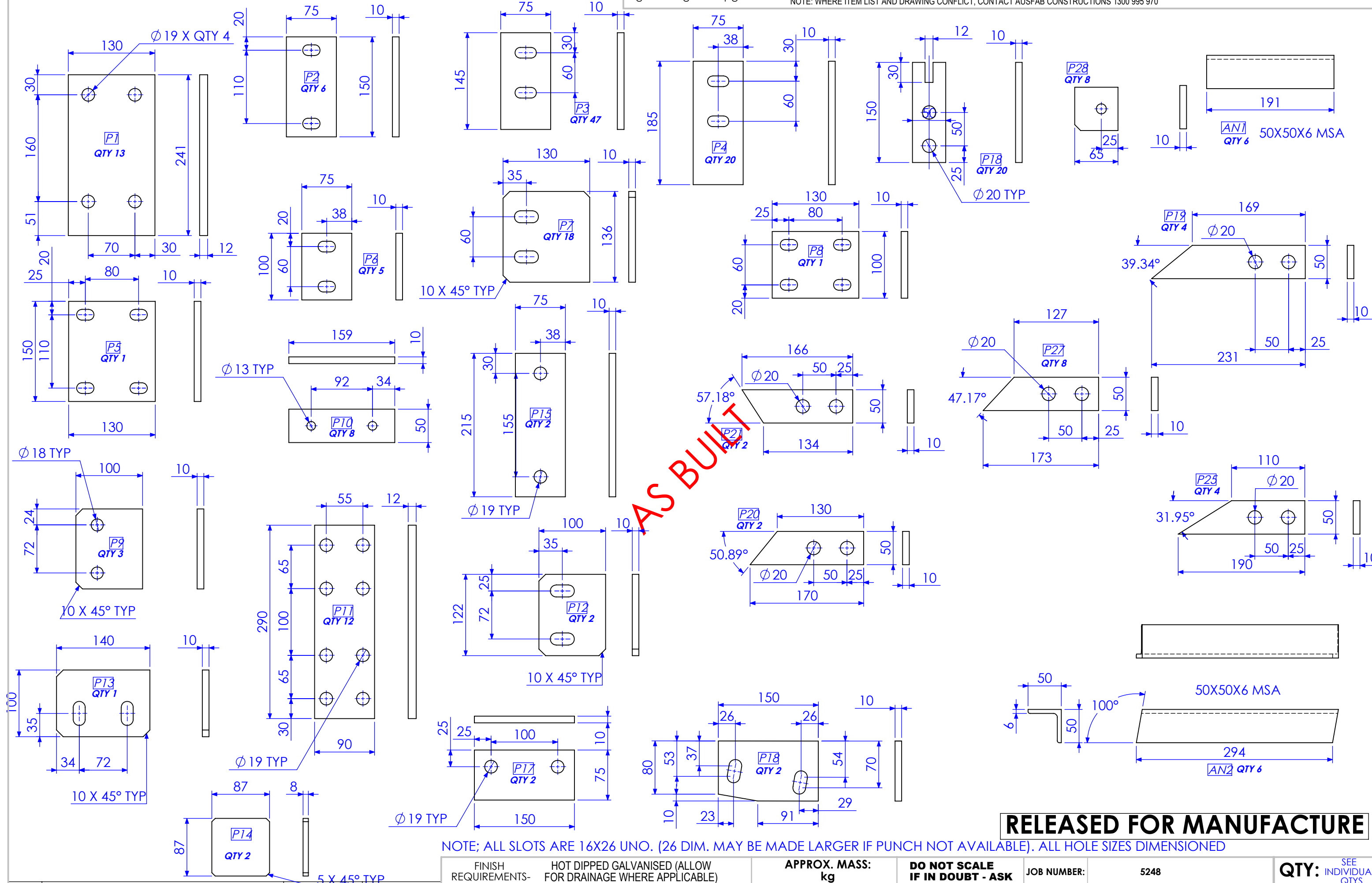
| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

Q-Pulse Id TMS1164

REVISIONS

|  |   |  |                                |                              |                                  |
|--|---|--|--------------------------------|------------------------------|----------------------------------|
| FINISH REQUIREMENTS-   | HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE)   | APPROX. MASS: kg   | DO NOT SCALE IF IN DOUBT - ASK | JOB NUMBER: 5248             | QTY: 8                           |
| PROPRIETARY NOTICE   | AusFAB CONSTRUCTIONS  | DRAWING NOTES:   | SCALE 1:5 UNO                  | DESCRIPTION                  | AS1100 THIRD ANGLE PROJECTION A3 |
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|  |   |  | CHECK EG/DB/NW -               | DRAWING No. 5248-A-A1-A1-P10 | PURPOSE OF DRAWING FABRICATION   |
|  |   |  | APPROVED -                     |                              |                                  |

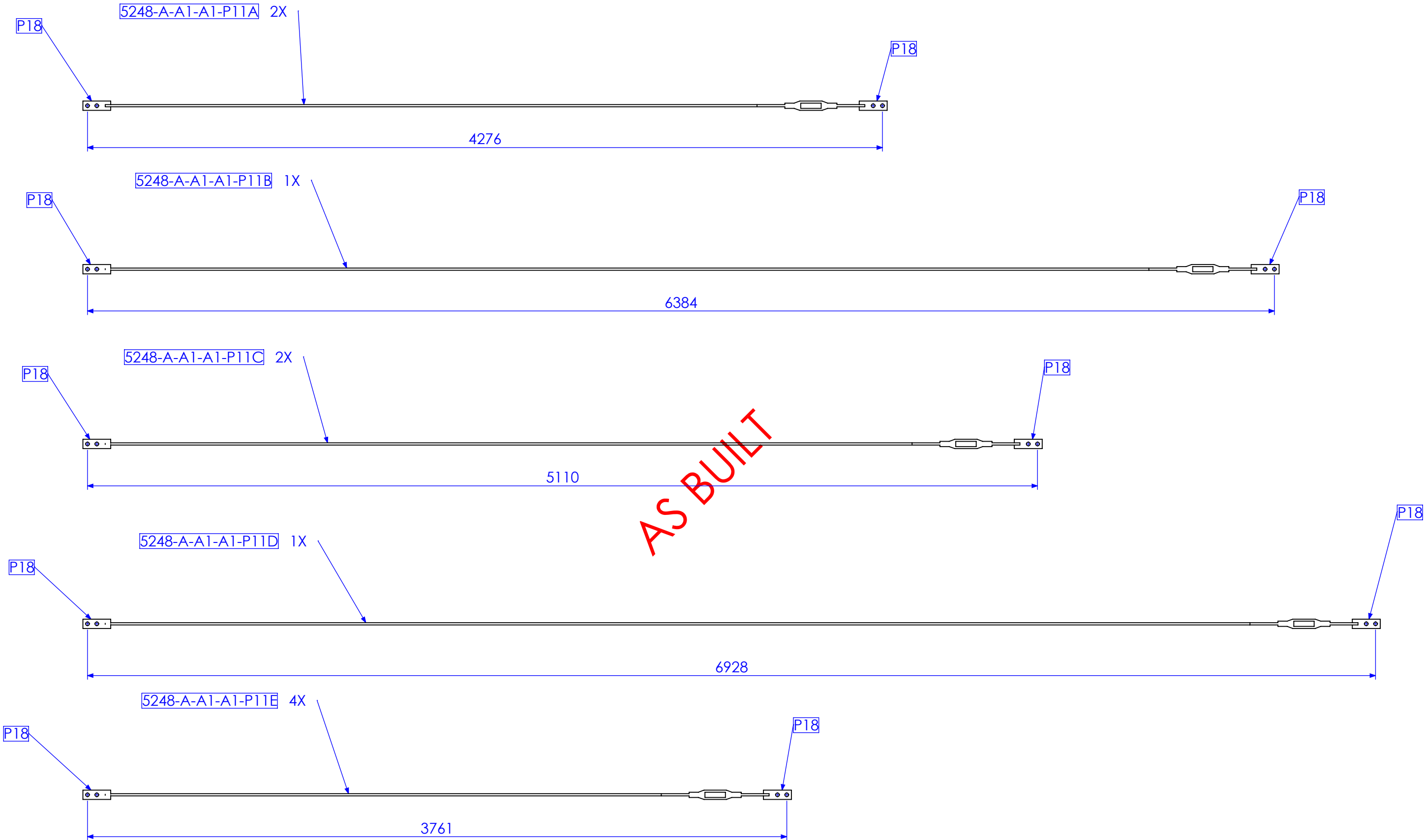
Page 51 of 95



RELEASED FOR MANUFACTURE

NOTE; ALL SLOTS ARE 16X26 UNO. (26 DIM. MAY BE MADE LARGER IF PUNCH NOT AVAILABLE). ALL HOLE SIZES DIMENSIONED

|                    |                              |  |                      |             |   |  |   |  |                                |  |   |  |  |  |
|--------------------|------------------------------|--|----------------------|-------------|---|--|---|--|--------------------------------|--|---|--|--|--|
|                    |                              |  | FINISH REQUIREMENTS- |             | HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE)   |  | APPROX. MASS: kg  |  | DO NOT SCALE IF IN DOUBT - ASK |  | JOB NUMBER: 5248                        |  | QTY: SEE INDIVIDUAL QTY'S              |  |
| 02                 | ADD BRACING                  |  | 2/01/2013            | SDB         | <p>PROPRIETARY NOTICE</p> <p>THIS DRAWING IS THE PROPERTY OF AUSFAB CONSTRUCTIONS. COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY AUSFAB CONSTRUCTIONS. THE DRAWINGS, IDEAS &amp; INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES.</p> |  <p>40 Kenilworth Street,<br/>Warwick, Queensland, Australia 4011<br/>Phone: 1300 998 990<br/>Fax: 1300 998 993</p> <p>15/05/2015</p> | DRAWING NOTES:  |  | SCALE 1:5 UNO                  |  | DESCRIPTION                             |  | AS1100<br>THIRD ANGLE PROJECTION<br>A3 |  |
| 03                 | ALTER TO SITE MEASURE        |  | 7/01/2013            | SDB         |   |  | ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.           |  | DRAWN SB 21/12/12              |  |   |  |  |  |
| 04                 | RELEASED FOR MANUFACTURE     |  | 9/01/2013            | SDB         |   |  | FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: |  |                                |  |   |  |  |  |
| 05                 | ADD EXTRA DIMS FOR BEAM LINE |  | 11/01/2013           | SDB         |   |  | FABRICATION ± 2.0mm   |  |                                |  |   |  |  |  |
| 06                 | AS BUILT DRGS                |  | 28/06/2013           | SDB         |   |  | MACHINING ± 0.25mm  |  | CHECK EG/DB/NW -               |  | PLATE SIZES AND QTYS FOR BOONAH MF SHED |  | SHEET 23 of 24<br>REV 06               |  |
| REV                | AMMENDMENT                   |  | DATE                 | AMMENDED BY |   |  |   |  | APPROVED - -                   |  |   |  |  |  |
| Q-Pulse Id TMS1164 |                              |  |                      |             |   |  |   |  | DRAWING No.                    |  | PLATE SIZES AND QTYS                    |  | PURPOSE OF DRAWING FABRICATION         |  |



P18 PLATE/ 12MM ROUND BAR/ 12MM TURNBUCKLE/ P18 PLATE  
ENSURE TURNBUCKLE IS AT MID POSITION WHEN CALCULATING  
ROUND BAR LENGTHS

RELEASED FOR MANUFACTURE

| REV | DESCRIPTION                  | DATE       | AMMENDED BY |
|-----|------------------------------|------------|-------------|
| 02  | ADD BRACING                  | 2/01/2013  | SDB         |
| 03  | ALTER TO SITE MEASURE        | 7/01/2013  | SDB         |
| 04  | RELEASED FOR MANUFACTURE     | 9/01/2013  | SDB         |
| 05  | ADD EXTRA DIMS FOR BEAM LINE | 11/01/2013 | SDB         |
| 06  | AS BUILT DRGS                | 28/06/2013 | SDB         |
| 07  | AMMENDMENT                   |            |             |

|  |   |
|--|---|
| FINISH REQUIREMENTS-   | HOT DIPPED GALVANISED (ALLOW FOR DRAINAGE WHERE APPLICABLE) |
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|   |   |
| 40 Kenilworth Street, Warwick, Queensland, Australia 4011<br>Phone: 1300 995 970<br>Fax: 1300 998 983  | 15/05/2015  |

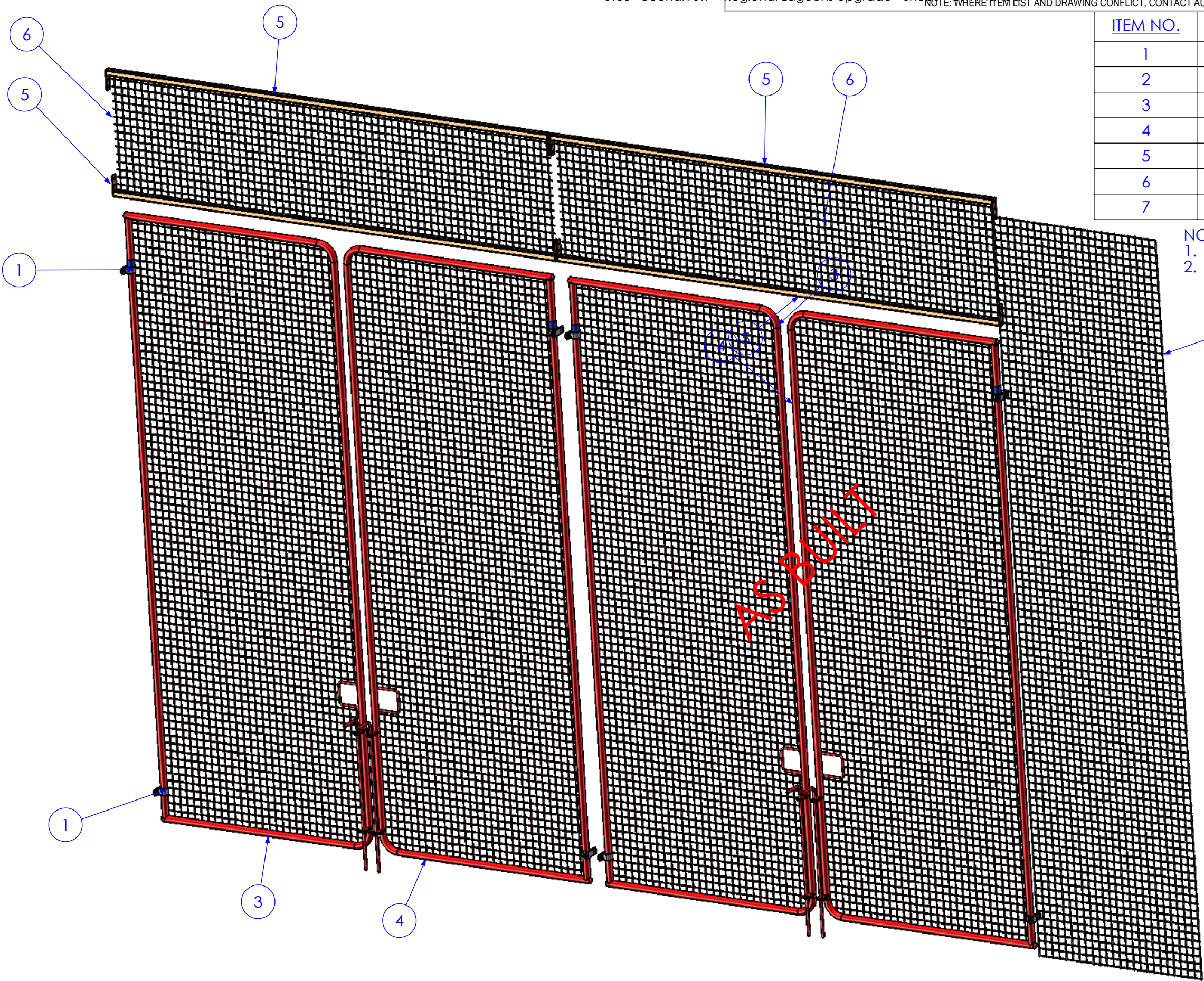
|   |
|---|
| APPROX. MASS: kg  |
| DRAWING NOTES:  |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.           |
| FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: |
| FABRICATION ± 2.0mm   |
| MACHINING ± 0.25mm  |

|                                   |          |          |
|-----------------------------------|----------|----------|
| DO NOT SCALE<br>IF IN DOUBT - ASK |          |          |
| SCALE                             | 1:5 UNO  |          |
| DRAWN                             | SB       | 21/12/12 |
| CHECK                             | EG/DB/NW | -        |
| APPROVED                          | -        | -        |

|             |                   |
|-------------|-------------------|
| JOB NUMBER: | 5248              |
| DESCRIPTION | TURNBUCKLE BRACES |
| DRAWING No. | TURNBUCKLE BRACES |

|                        |                     |
|------------------------|---------------------|
| QTY:                   | SEE INDIVIDUAL QTYS |
| AS1100                 | A3                  |
| THIRD ANGLE PROJECTION |                     |
| SHEET 24 of 24         | REV 06              |
| PURPOSE OF DRAWING     | FABRICATION         |






| ITEM NO. | DESCRIPTION    | QTY | Part No         |
|----------|----------------|-----|-----------------|
| 1        | JORY PART S4   | 8   | S4-32           |
| 2        | JORY PART BP4  | 8   | BP4             |
| 3        | GATE 1         | 2   | 5248-B-A1-A3-P3 |
| 4        | GATE 2         | 2   | 5248-B-A1-A3-P3 |
| 5        | MESH SUPPORT 1 | 4   | 5248-A-A1-A3-P2 |
| 6        | MESH SECTION 1 | 2   | 5248-A-A1-A3-P6 |
| 7        | MESH SECTION 2 | 1   | 5248-A-A1-A3-P7 |

- NOTES-
- JORY PARTS STANDARD OUT OF JORY CATALOGUE
  - GATE 2 IS OPPOSITE HAND TO GATE 1


RELEASED FOR MANUFACTURE

|           |                          |            |             |
|-----------|--------------------------|------------|-------------|
| 01        | INITIAL ISSUE            | 7/01/2013  | SDB         |
| 02        | RELEASED FOR MANUFACTURE | 9/01/2013  | SDB         |
| 03        | AS BUILT DRGS            | 28/06/2013 | SDB         |
| 04        | AMMENDMENT               | DATE       | AMMENDED BY |
| REVISIONS |                          |            |             |

|  |   |   |   |  |  |
|--|---|---|---|--|--|
| FINISH REQUIREMENTS-   | GALVANISED  | APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK  | JOB NUMBER: 5248   | QTY: 1   |
| PROPRIETARY NOTICE<br>THIS DRAWING IS THE PROPERTY OF AUSFAB CONSTRUCTIONS. COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY AUSFAB CONSTRUCTIONS. THE DRAWINGS, IDEAS & INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES. | <br>40 Kenilworth Street,<br>Warwick, Queensland, Australia 4011<br>Phone: 1300 995 970<br>Fax: 1300 998 983<br>15/05/2015 | DRAWING NOTES:<br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm | SCALE: 1:25 UNO<br>DRAWN: SB 7/01/13<br>CHECK: EG/NW 7/01/13<br>APPROVED: - - | DESCRIPTION: GATES AND MESH SECTIONS<br>DRAWING No. 5248-A-A1-A3 | AS1100 THIRD ANGLE PROJECTION A3<br>SHEET 1 of 5 REV 03<br>PURPOSE OF DRAWING: FABRICATION |

**SEE NOTE ON SHEET 1  
REGARDING GATE 2**



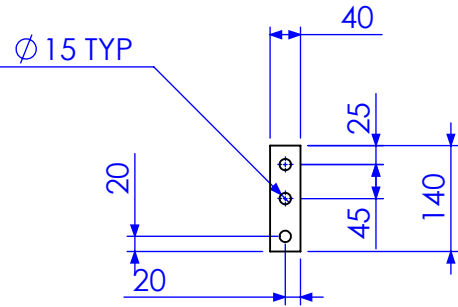
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|---|--|---|--|---|--|---|--|---|--|---|--|-----------------------------------|--|
| FINISH REQUIREMENTS-  |  | GALVANISED  |  | APPROX. MASS:<br>kg   |  | DO NOT SCALE<br>IF IN DOUBT - ASK   |  | JOB NUMBER:   |  | 5248  |  | QTY: 2                            |  |
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|   |  | 40 Kenilworth Street,<br>Warwick, Queensland, Australia 4011<br>Phone: 1300 985 990<br>Fax: 1300 998 983<br>Date 15/05/2015 |  |   |  |   |  | DRAWING No. 5248-B-A1-A3-P3   |  | Page 55 of 95   |  |                                   |  |



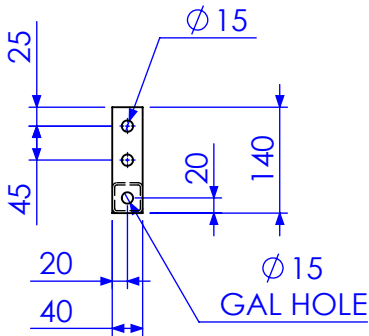
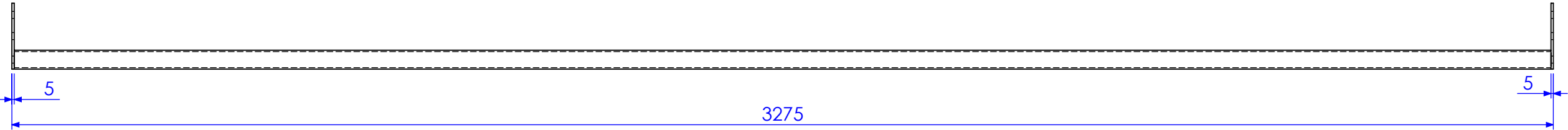
| ITEM NO. | QTY. | DESCRIPTION | LENGTH |
|----------|------|-------------|--------|
| 1        | 1    | 40x40x3 SHS | 3264.5 |
| 2        | 2    | 40x5 FL     | 140    |

NOTE,  
ALLOW FOR GAL DRAINAGE

AS BUILT



PACKERS REQUIRED  
1. QTY 8 IN 2MM  
2. QTY 8 IN 3MM  
3. QTY 8 IN 5MM



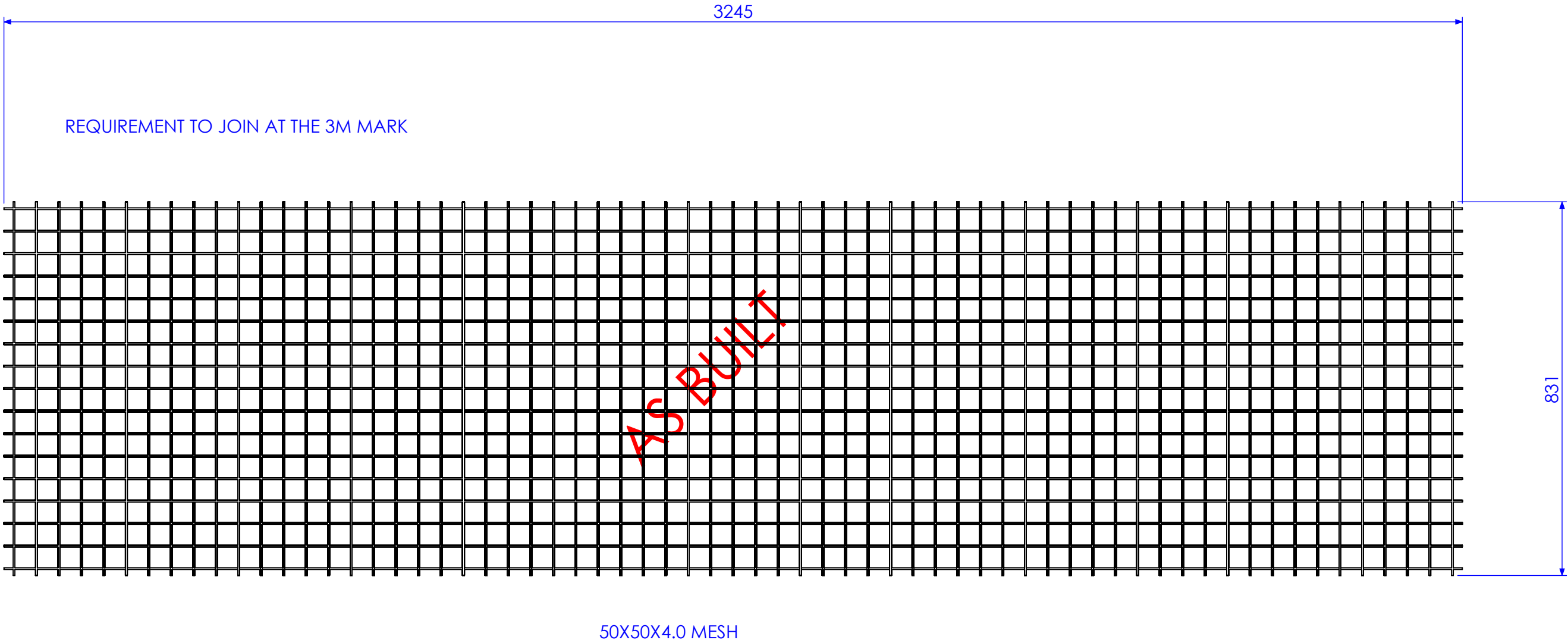
RELEASED FOR MANUFACTURE

|    |                          |            |             |
|----|--------------------------|------------|-------------|
| 01 | INITIAL ISSUE            | 7/01/2013  | SDB         |
| 02 | RELEASED FOR MANUFACTURE | 9/01/2013  | SDB         |
| 03 | AS BUILT DRGS            | 28/06/2013 | SDB         |
| 04 | AMMENDMENT               | DATE       | AMMENDED BY |

Q:\Pulse Id TMS1164


REVISIONS

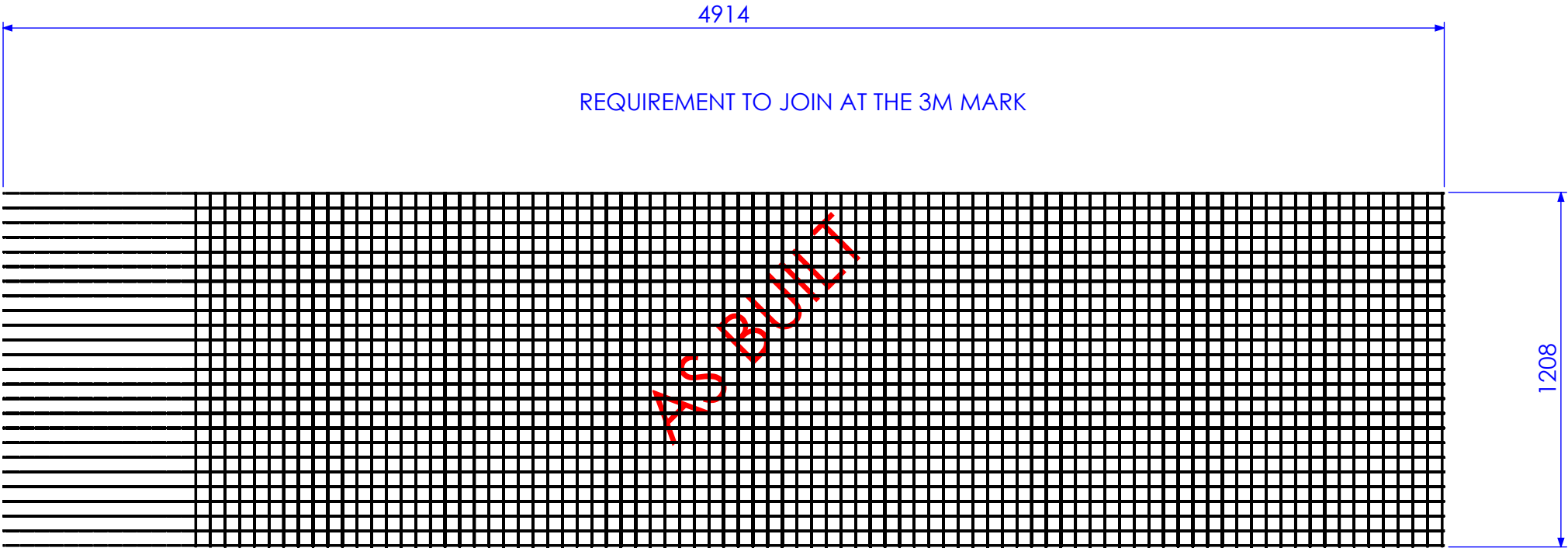
|  |  |   |   |  |   |
|--|--|---|---|--|---|
| FINISH REQUIREMENTS-   | GALVANISED   | APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK  | JOB NUMBER: 5248   | QTY: 4  |
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RELEASED FOR MANUFACTURE

|           |                          |            |             |
|-----------|--------------------------|------------|-------------|
| 01        | INITIAL ISSUE            | 7/01/2013  | SDB         |
| 02        | RELEASED FOR MANUFACTURE | 9/01/2013  | SDB         |
| 03        | AS BUILT DRGS            | 28/06/2013 | SDB         |
| 04        | AMMENDMENT               | DATE       | AMMENDED BY |
| REVISIONS |                          |            |             |

|   |  |   |  |   |             |                                |       |                 |             |               |  |  |        |  |  |        |  |    |
|---|--|---|--|---|-------------|--------------------------------|-------|-----------------|-------------|---------------|--|--|--------|--|--|--------|--|----|
| FINISH REQUIREMENTS-  |  | GALVANISED  |  | APPROX. MASS: kg  |             | DO NOT SCALE IF IN DOUBT - ASK |       |                 | JOB NUMBER: |               | 5248   |  | QTY: 2 |  |  |        |  |    |
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| THIRD ANGLE PROJECTION  |  |   |  |   |             |                                |       |                 |             |               |  |  |        |  |  |        |  |    |
| SHEET 4 of 5  |  | REV   |  | 03  |             |                                |       |                 |             |               |  |  |        |  |  |        |  |    |
| PURPOSE OF DRAWING  |  |   |  |   | FABRICATION |                                |       |                 |             |               |  |  |        |  |  |        |  |    |
|   |  |   |  |   |             | DRAWING No.                    |       | 5248-A-A1-A3-P6 |             | Page 57 of 95 |  |  |        |  |  |        |  |    |




REQUIREMENT TO JOIN AT THE 3M MARK

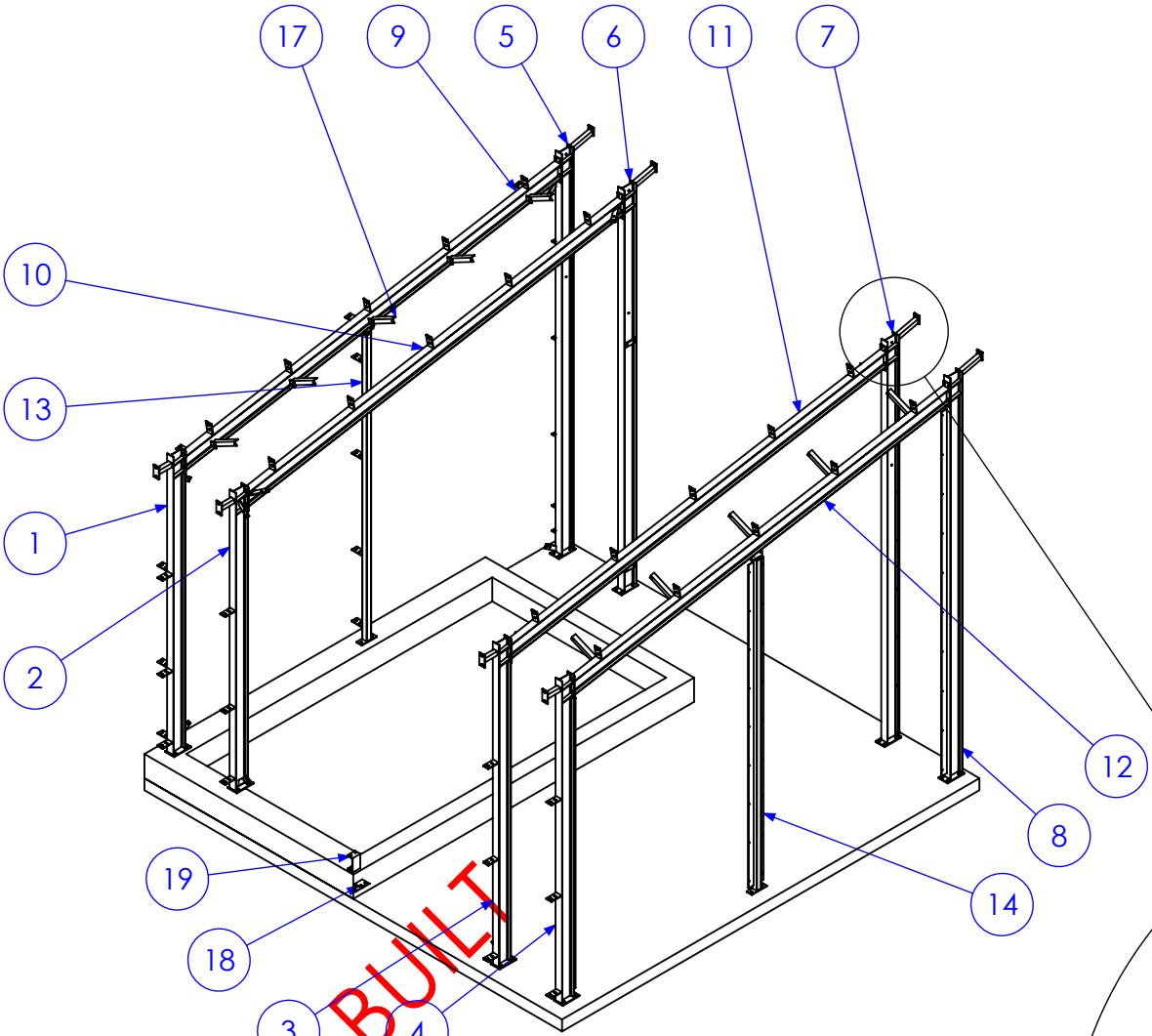
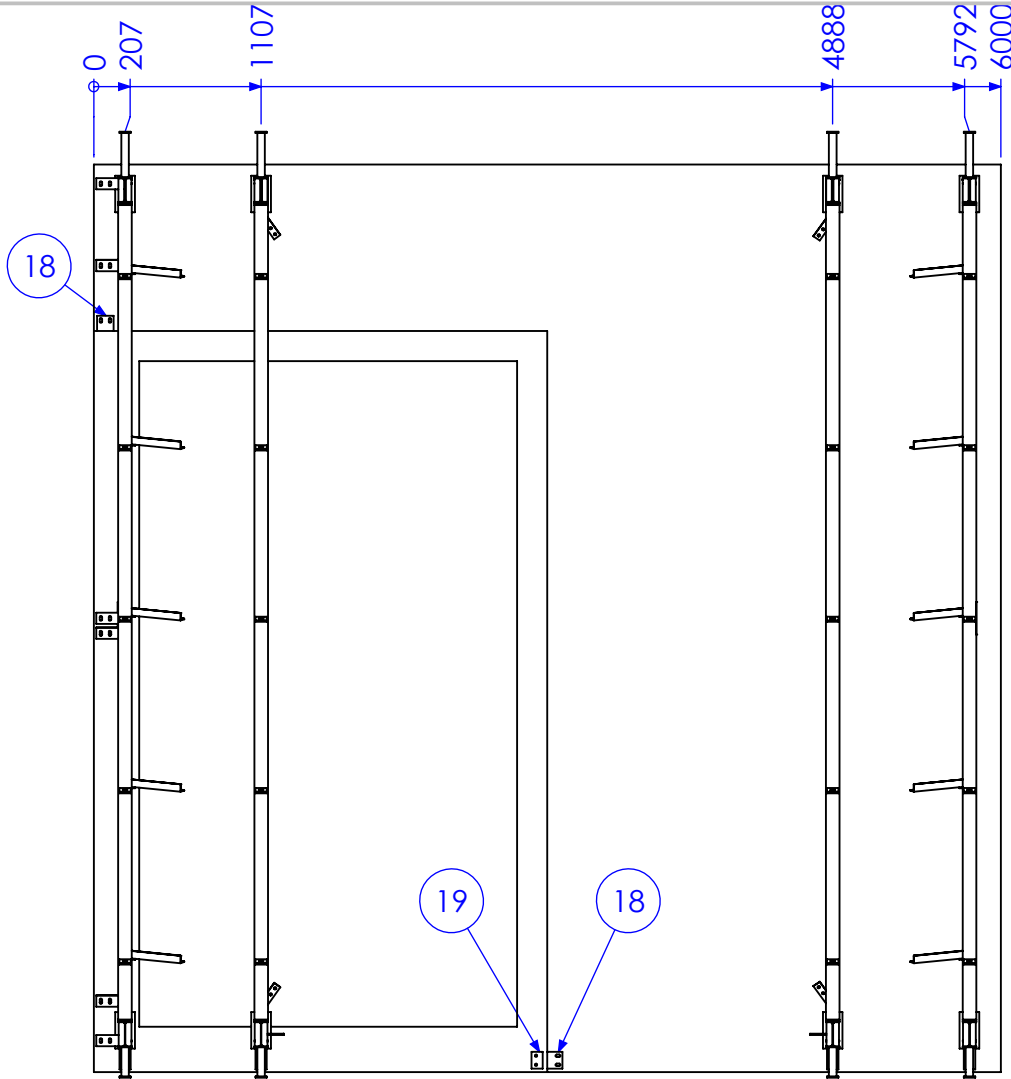
50X50X4.0 MESH

RELEASED FOR MANUFACTURE

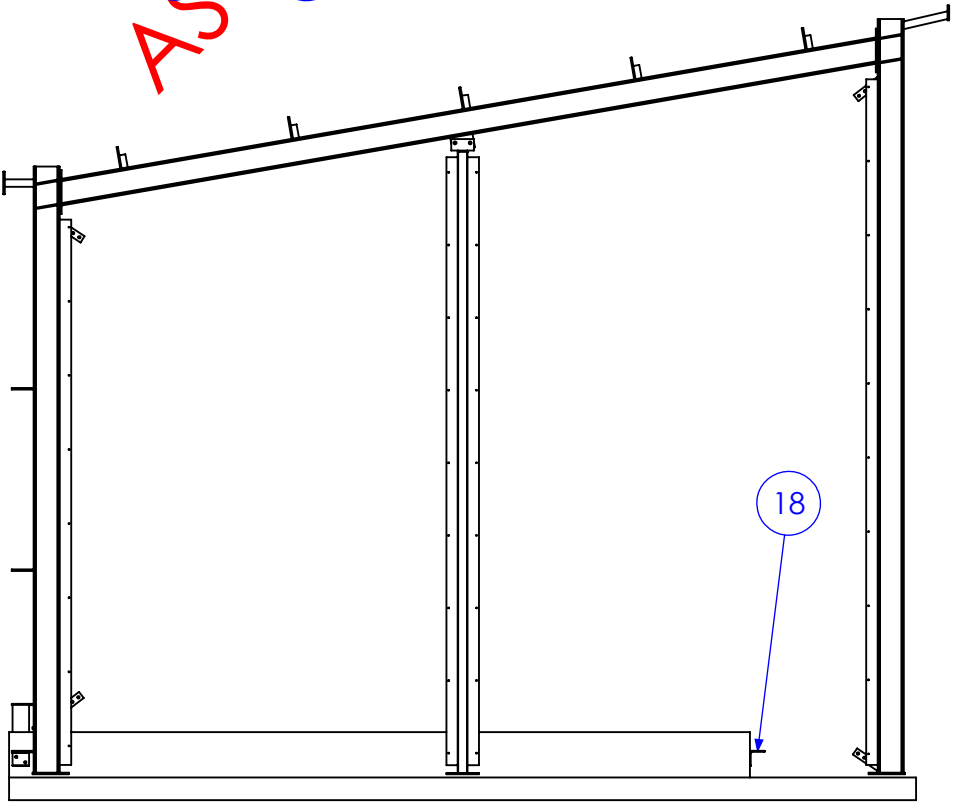
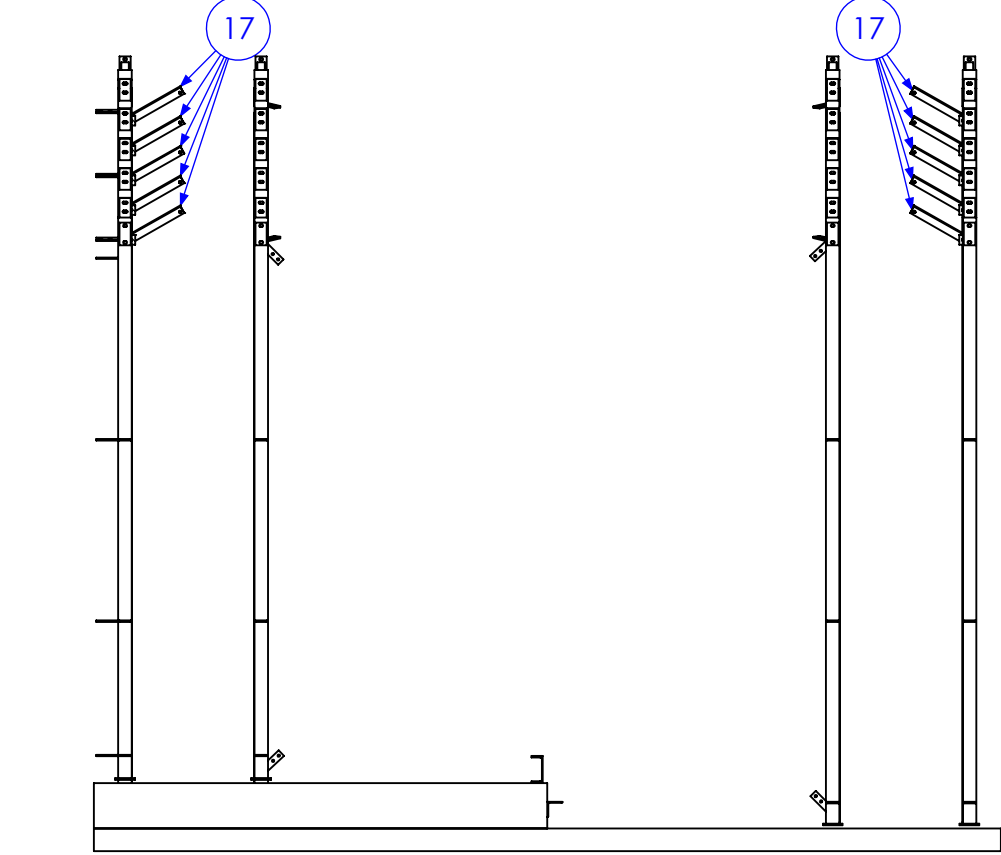
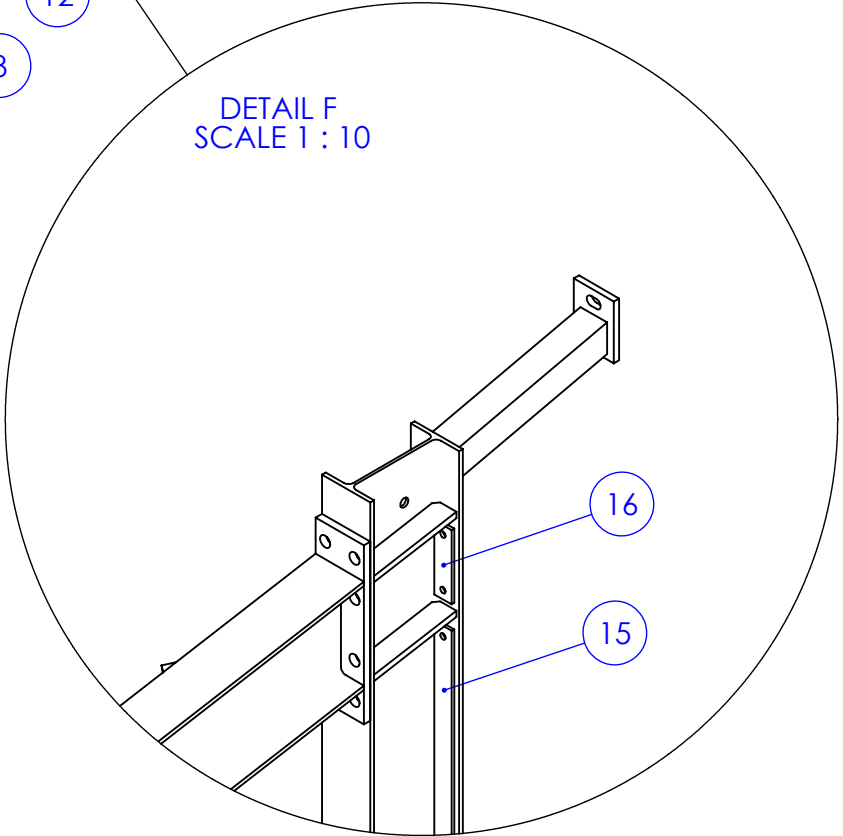
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|-----------|--------------------------|------------|-------------|
| 01        | INITIAL ISSUE            | 7/01/2013  | SDB         |
| 02        | RELEASED FOR MANUFACTURE | 9/01/2013  | SDB         |
| 03        | AS BUILT DRGS            | 28/06/2013 | SDB         |
| 04        | AMMENDMENT               | DATE       | AMMENDED BY |
| REVISIONS |                          |            |             |

|  |  |  |  |   |  |                                |  |               |             |  |      |                 |        |               |  |    |
|--|--|--|--|---|--|--------------------------------|--|---------------|-------------|--|------|-----------------|--------|---------------|--|----|
| FINISH REQUIREMENTS-   |  | GALVANISED   |  | APPROX. MASS: kg  |  | DO NOT SCALE IF IN DOUBT - ASK |  |               | JOB NUMBER: |  | 5248 |                 | QTY: 1 |               |  |    |
| PROPRIETARY NOTICE   |  |                     |  | DRAWING NOTES:<br><br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br><br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm |  | SCALE                          |  | 1:20 UNO      |             | DESCRIPTION<br><br><b>MESH SECTION 2</b> |      |                 |        | AS1100        |  | A3 |
| THIRD ANGLE PROJECTION   |  |  |  |   |  |                                |  |               |             |  |      |                 |        |               |  |    |
| SHEET 5 of 5   |  |  |  |   |  | REV                            |  | 03            |             |  |      |                 |        |               |  |    |
| PURPOSE OF DRAWING<br><b>FABRICATION</b>   |  |  |  |   |  |                                |  |               |             |  |      |                 |        |               |  |    |
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|  |  |  |  |   |  | CHECK                          |  | EG/NW 7/01/13 |             |  |      |                 |        |               |  |    |
|  |  |  |  |   |  | APPROVED                       |  | - -           |             |  |      |                 |        |               |  |    |





| ITEM NO. | MARK NO. | DESCRIPTION           | QTY |
|----------|----------|-----------------------|-----|
| 1        | PHCI-RC1 | REAR COLUMN 1         | 1   |
| 2        | PHCI-RC2 | REAR COLUMN 2         | 1   |
| 3        | PHCI-RC3 | REAR COLUMN 3         | 1   |
| 4        | PHCI-RC4 | REAR COLUMN 4         | 1   |
| 5        | PHCI FC1 | FRONT COLUMN 1        | 1   |
| 6        | PHCI FC2 | FRONT COLUMN 2        | 1   |
| 7        | PHCI FC3 | FRONT COLUMN 3        | 1   |
| 8        | PHCI FC4 | FRONT COLUMN 4        | 1   |
| 9        | PHCI PF1 | PORTAL FRAME 1        | 1   |
| 10       | PHCI PF2 | PORTAL FRAME 2        | 1   |
| 11       | PHCI PF3 | PORTAL FRAME 3        | 1   |
| 12       | PHCI PF4 | PORTAL FRAME 4        | 1   |
| 13       | PHCI M1  | PHCI MULLION 1        | 1   |
| 14       | PHCI M2  | PHCI MULLION 2        | 1   |
| 15       | MCB 1    | MESH CLAMP BAR 1      | 4   |
| 16       | MCB 2    | MESH CLAMP BAR 2      | 4   |
| 17       | PFB      | PURLIN FLY BRACE      | 10  |
| 18       | BPS 1    | BUND PURLIN SUPPORT 1 | 2   |
| 19       | BPS 2    | BUND PURLIN SUPPORT 2 | 1   |



| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  |            |             |

FINISH REQUIREMENTS-

GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING

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APPROX. MASS: kg

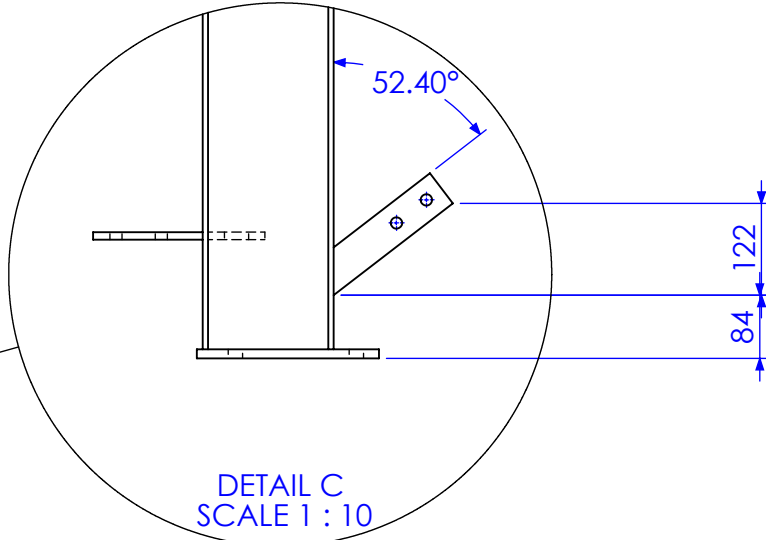
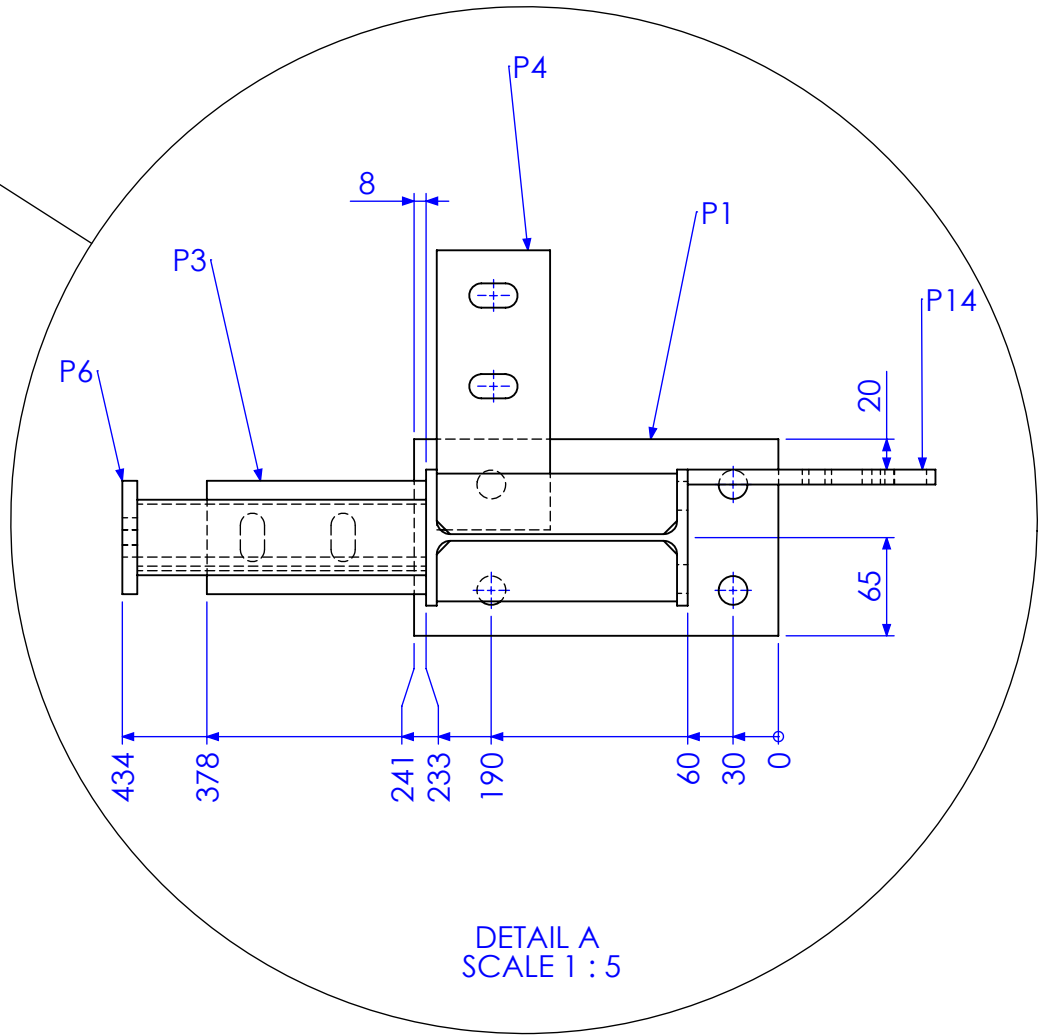
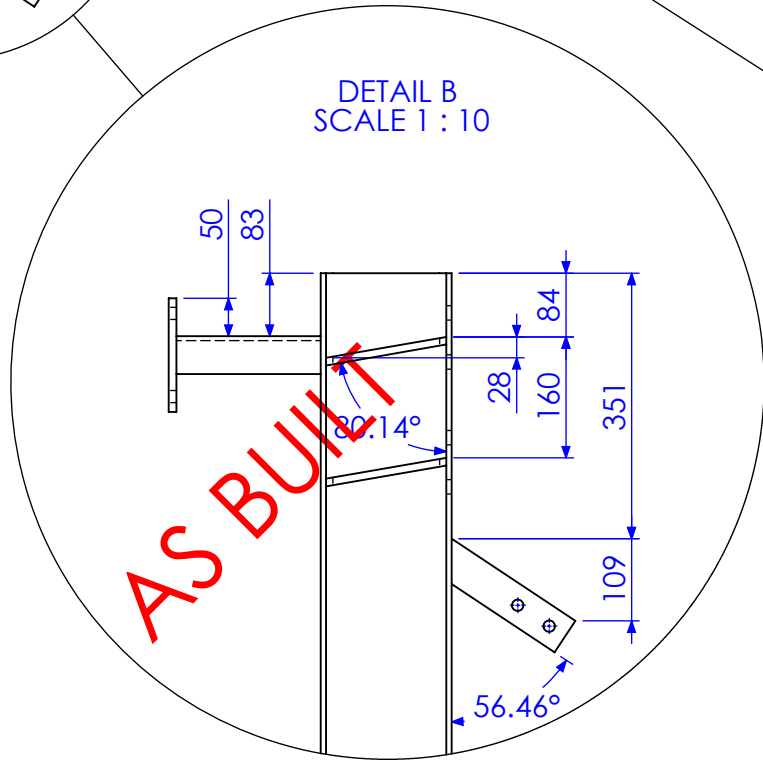
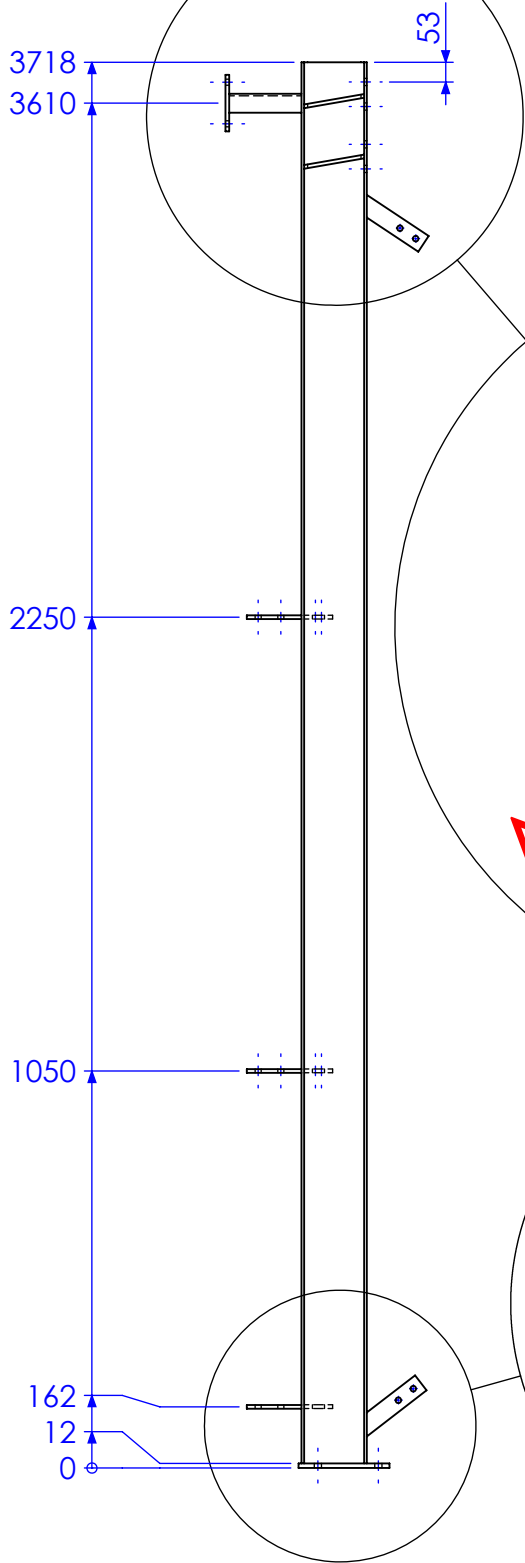
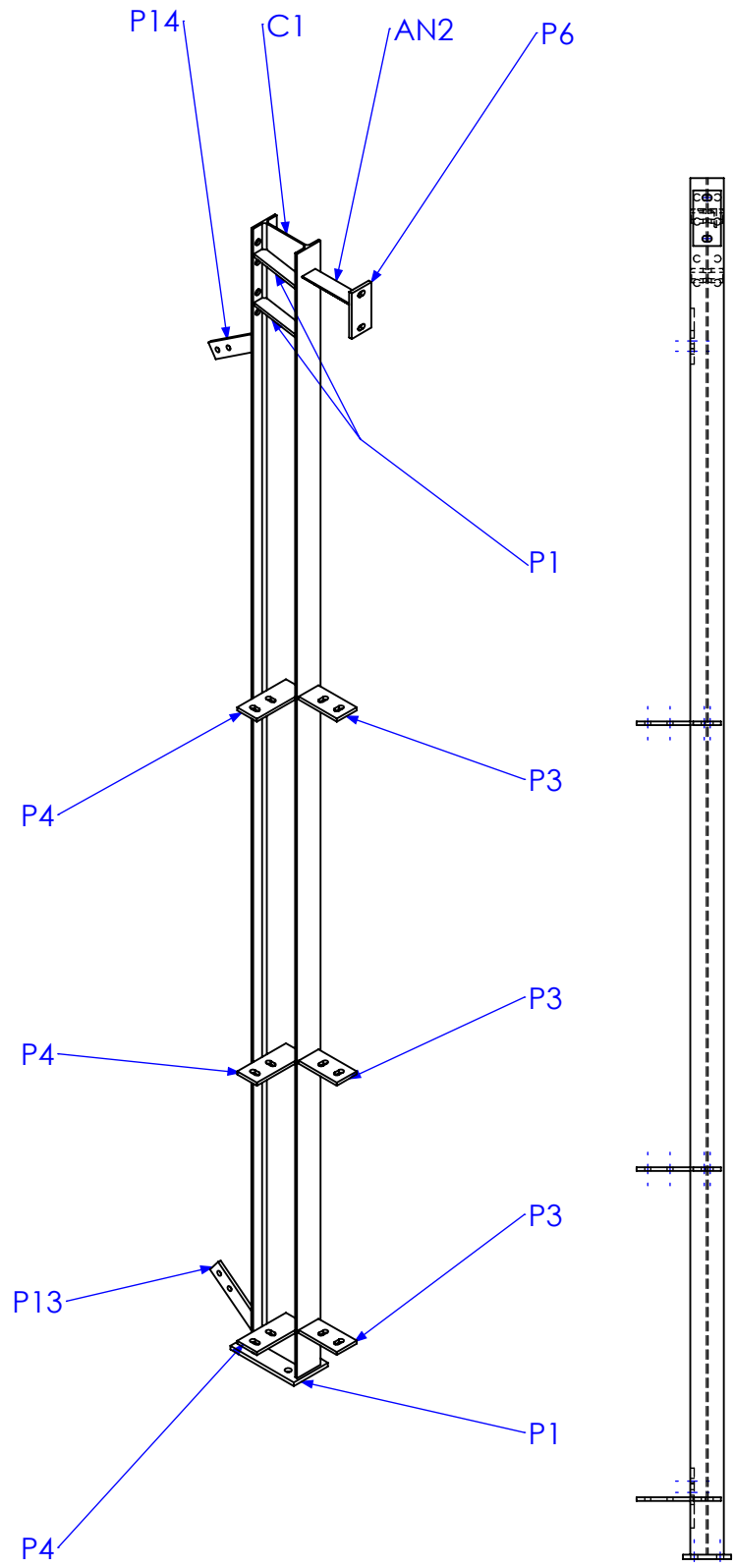
DRAWING NOTES:  
ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.  
FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:  
FABRICATION ± 2.0mm  
MACHINING ± 0.25mm

DO NOT SCALE IF IN DOUBT - ASK

|          |                |
|----------|----------------|
| SCALE    | 1:50 UNO       |
| DRAWN    | SB 23/01/13    |
| CHECK    | EG/NW 23/01/13 |
| APPROVED | - -            |

|                               |   |        |
|-------------------------------|---|--------|
| JOB NUMBER:                   | 5248                                      | QTY: 1 |
| DESCRIPTION                   | BOONAH PH-CI STRUCTURAL STEEL FABRICATION |        |
| DRAWING No.                   | 5248-(PH&CI) B-A1-A1                      |        |
| AS1100 THIRD ANGLE PROJECTION | A3  |        |
| SHEET 1 of 21                 | REV 05                                    |        |
| PURPOSE OF DRAWING            | FABRICATION                               |        |

| MARK NO. | QTY. | DESCRIPTION | LENGTH |
|----------|------|-------------|--------|
| P1       | 1    | 130x12 FL   | 241    |
| C1       | 1    | 180 UB 16.1 | 3706   |
| P3       | 3    | 75x10 FL    | 145    |
| AN2      | 1    | 50x50x6 EA  | 191    |
| P6       | 1    | 75x10 FL    | 150    |
| P12      | 4    | 40x10 FL    | 163.12 |
| P13      | 1    | 50x10 FL    | 199.25 |
| P14      | 1    | 50x10 FL    | 196.57 |



| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  |            |             |

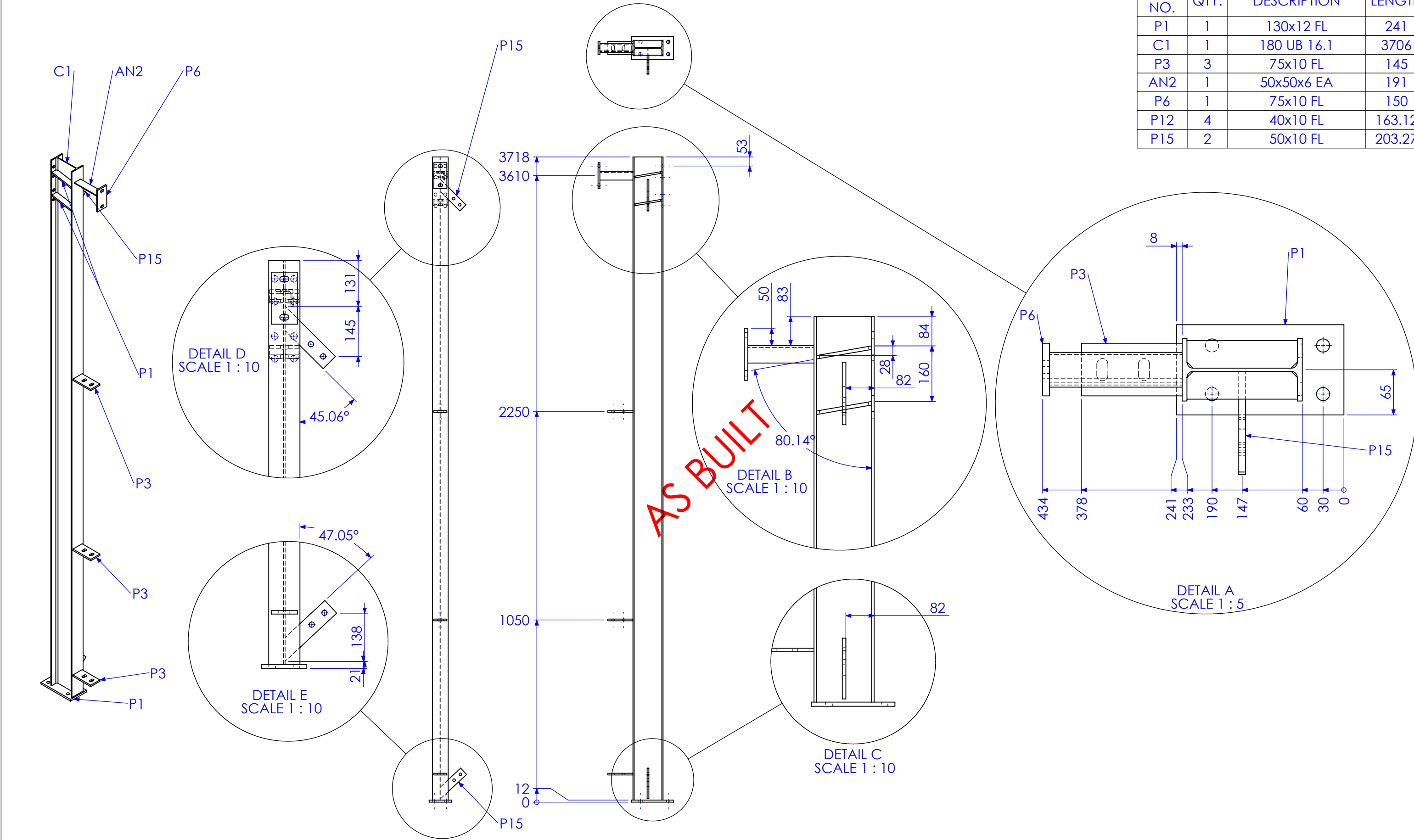
|  |  |   |
|--|--|---|
| FINISH REQUIREMENTS- GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING  | APPROX. MASS: kg   | DO NOT SCALE IF IN DOUBT - ASK  |
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|          |                |
|----------|----------------|
| SCALE    | 1:20 UNO       |
| DRAWN    | SB 23/01/13    |
| CHECK    | EG/NW 23/01/13 |
| APPROVED | -              |

|             |               |
|-------------|---------------|
| JOB NUMBER: | 5248          |
| DESCRIPTION | REAR COLUMN 1 |
| DRAWING No. | PHCI-RC1      |

|        |                        |             |
|--------|------------------------|-------------|
| QTY: 1 | AS1100                 | A3          |
|        | THIRD ANGLE PROJECTION |             |
|        | SHEET 2 of 21          | REV 05      |
|        | PURPOSE OF DRAWING     | FABRICATION |

| MARK NO. | QTY. | DESCRIPTION | LENGTH |
|----------|------|-------------|--------|
| P1       | 1    | 130x12 FL   | 241    |
| C1       | 1    | 180 UB 16.1 | 3706   |
| P3       | 3    | 75x10 FL    | 145    |
| AN2      | 1    | 50x50x6 EA  | 191    |
| P6       | 1    | 75x10 FL    | 150    |
| P12      | 4    | 40x10 FL    | 163.12 |
| P15      | 2    | 50x10 FL    | 203.27 |



| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  |            |             |

|  |  |
|--|--|
| FINISH REQUIREMENTS-   | GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING |
| PROPRIETARY NOTICE   | AusFAB CONSTRUCTIONS   |
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|   |                                |
|---|--------------------------------|
| APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK |
| DRAWING NOTES:  | SCALE 1:20 UNO                 |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.           | DRAWN SB 23/01/13              |
| FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: | CHECK EG/NW 23/01/13           |
| FABRICATION ± 2.0mm   | APPROVED - -                   |
| MACHINING ± 0.25mm  |                                |

|                    |               |                                  |
|--------------------|---------------|----------------------------------|
| JOB NUMBER:        | 5248          | QTY: 1                           |
| DESCRIPTION        | REAR COLUMN 2 | AS1100 THIRD ANGLE PROJECTION A3 |
| DRAWING No.        | PHCI-RC2      | SHEET 3 of 21 REV 05             |
| PURPOSE OF DRAWING |               | FABRICATION                      |

Technical drawing of a vertical structural member, likely a column or beam, showing various details and dimensions. The drawing includes a main elevation view and several circular detail callouts (A, B, C, G, H).

**Dimensions:**

- Overall height: 4018 mm
- Height to first detail: 3910 mm
- Height to second detail: 2550 mm
- Height to third detail: 1350 mm
- Height to base: 150 mm
- Base offset: 12 mm
- Base width: 0 mm
- Detail A: 434 mm, 378 mm, 241 mm, 233 mm, 190 mm, 60 mm, 30 mm, 0 mm, 8 mm, 20 mm, 65 mm
- Detail B: 50 mm, 83 mm, 28 mm, 160 mm, 84 mm, 82 mm, 80.14°
- Detail C: 150 mm, 12 mm, 0 mm, 82 mm
- Detail G: 114 mm, 138 mm, 47.05°
- Detail H: 145 mm, 49 mm, 45.06°

**Components and Labels:**


- C1: Top flange
- AN2: Angle
- P6: Plate
- P15: Plate
- P1: Plate
- P3: Plate

**Details:**

- DETAIL A SCALE 1 : 5
- DETAIL B SCALE 1 : 10
- DETAIL C SCALE 1 : 10
- DETAIL G SCALE 1 : 10
- DETAIL H SCALE 1 : 10

**Table:**

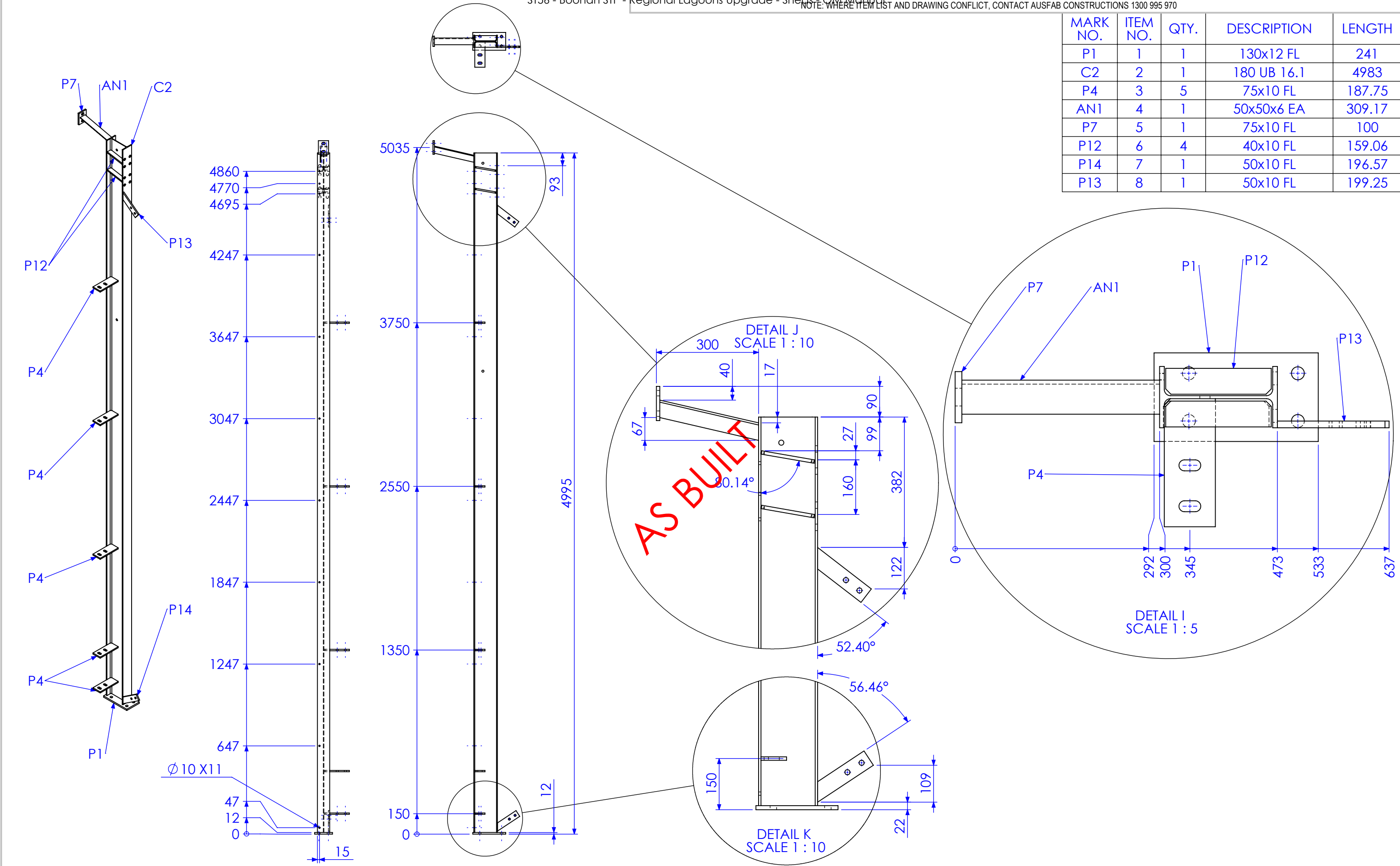
| MARK NO. | QTY. | DESCRIPTION | LENGTH |
|----------|------|-------------|--------|
| P1       | 1    | 130x12 FL   | 241    |
| C1       | 1    | 180 UB 16.1 | 4006   |
| P3       | 3    | 75x10 FL    | 145    |
| AN2      | 1    | 50x50x6 EA  | 191    |
| P6       | 1    | 75x10 FL    | 150    |
| P15      | 2    | 50x10 FL    | 203.2  |
| P12      | 4    | 40x10 FL    | 163.1  |

|   |  |   |  |   |  |                                   |  |               |  |                                   |  |               |  |
|---|--|---|--|---|--|-----------------------------------|--|---------------|--|-----------------------------------|--|---------------|--|
| FINISH REQUIREMENTS-  |  | GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING  |  | APPROX. MASS:<br>kg   |  | DO NOT SCALE<br>IF IN DOUBT - ASK |  | JOB NUMBER:   |  | 5248                              |  | QTY: 1        |  |
| <b>PROPRIETARY NOTICE</b><br>THIS DRAWING IS THE PROPERTY OF AUSFAB CONSTRUCTIONS. COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY AUSFAB CONSTRUCTIONS. THE DRAWINGS, IDEAS & INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES. |  |  <div>40 Kenilworth Street,<br/>Warwick, Queensland, Australia 4011<br/>Phone: 1300 998 980<br/>Fax: 1300 998 983<br/>Date: 15/05/2015</div> |  | DRAWING NOTES:<br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm |  | SCALE<br>1:20 UNO                 |  | DESCRIPTION   |  | AS1100<br>THIRD ANGLE PROJECTION  |  | A3            |  |
|   |  |   |  |   |  | DRAWN<br>SB<br>23/01/13           |  | REAR COLUMN 3 |  | SHEET 4 of 21                     |  | REV 05        |  |
|   |  |   |  |   |  | CHECK<br>EG/NW<br>23/01/13        |  |               |  | PURPOSE OF DRAWING<br>FABRICATION |  |               |  |
|   |  |   |  |   |  | APPROVED<br>-<br>-                |  | DRAWING No.   |  | PHCI-RC3                          |  | Page 62 of 95 |  |

|  |        |
|--|--------|
| QTY: 1   |        |
| AS1100<br>THIRD ANGLE PROJECTION                       | A3     |
| SHEET 5 of 21  | REV 05 |
| PURPOSE OF DRAWING<br>e 63 of 95<br><b>FABRICATION</b> |        |



| MARK NO. | ITEM NO. | QTY. | DESCRIPTION | LENGTH |
|----------|----------|------|-------------|--------|
| P1       | 1        | 1    | 130x12 FL   | 241    |
| C2       | 2        | 1    | 180 UB 16.1 | 4983   |
| P4       | 3        | 5    | 75x10 FL    | 187.75 |
| AN1      | 4        | 1    | 50x50x6 EA  | 309.17 |
| P7       | 5        | 1    | 75x10 FL    | 100    |
| P12      | 6        | 4    | 40x10 FL    | 159.06 |
| P14      | 7        | 1    | 50x10 FL    | 196.57 |
| P13      | 8        | 1    | 50x10 FL    | 199.25 |



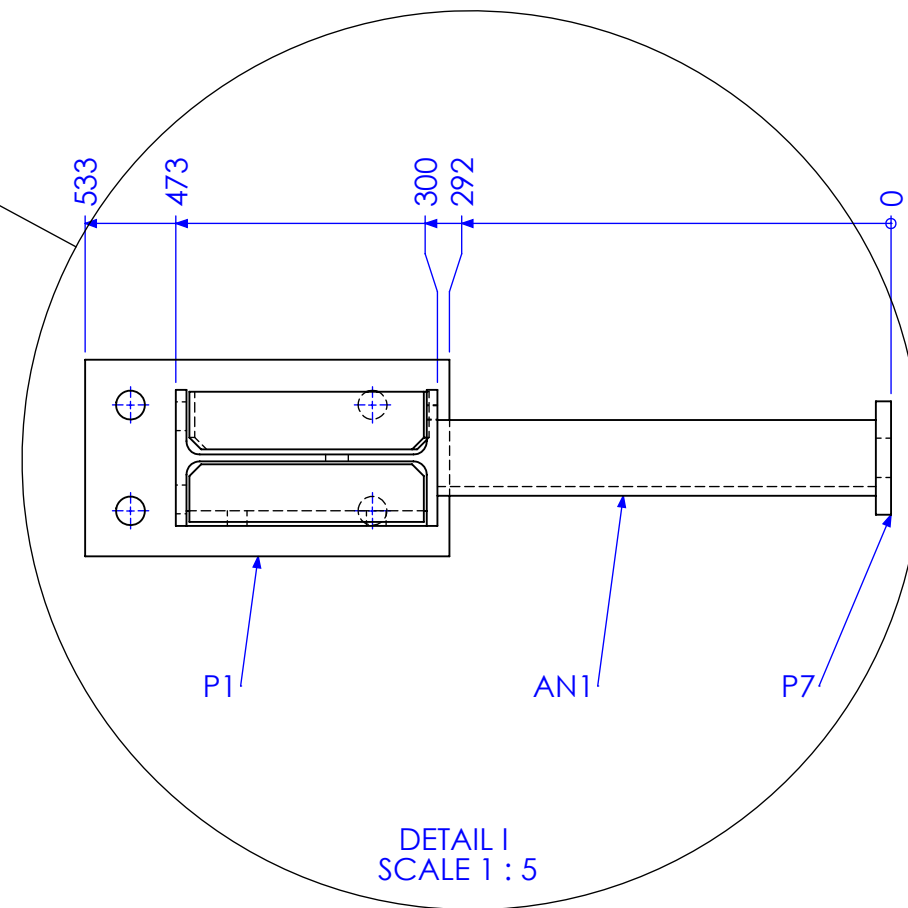
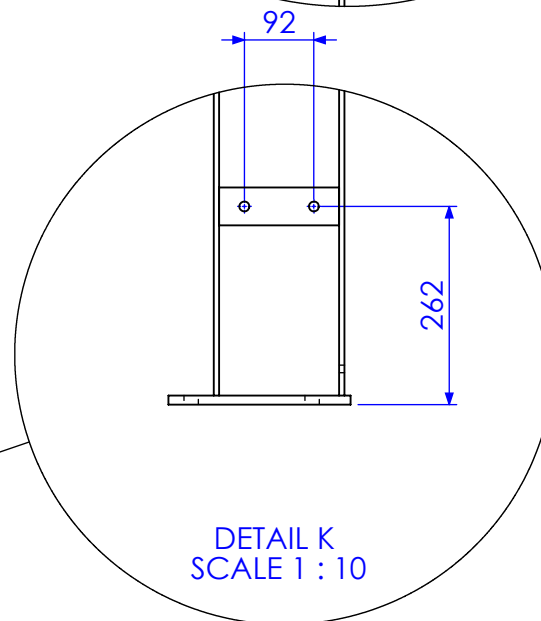
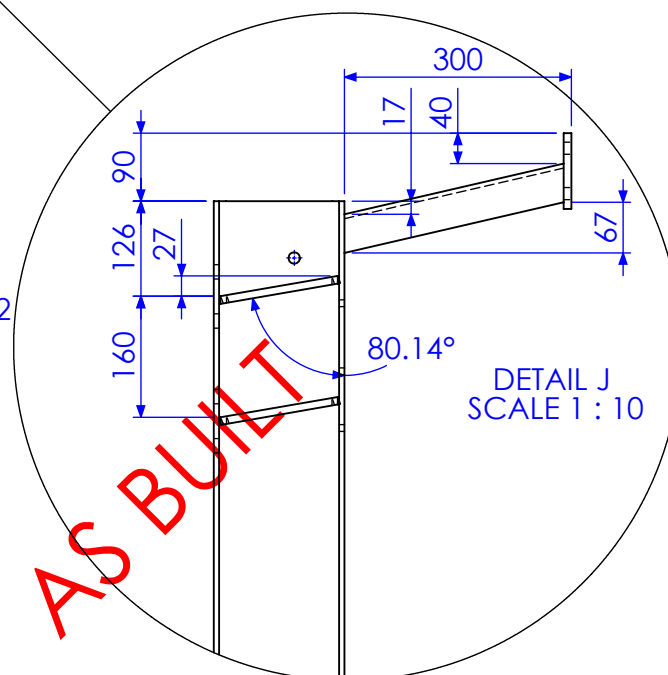
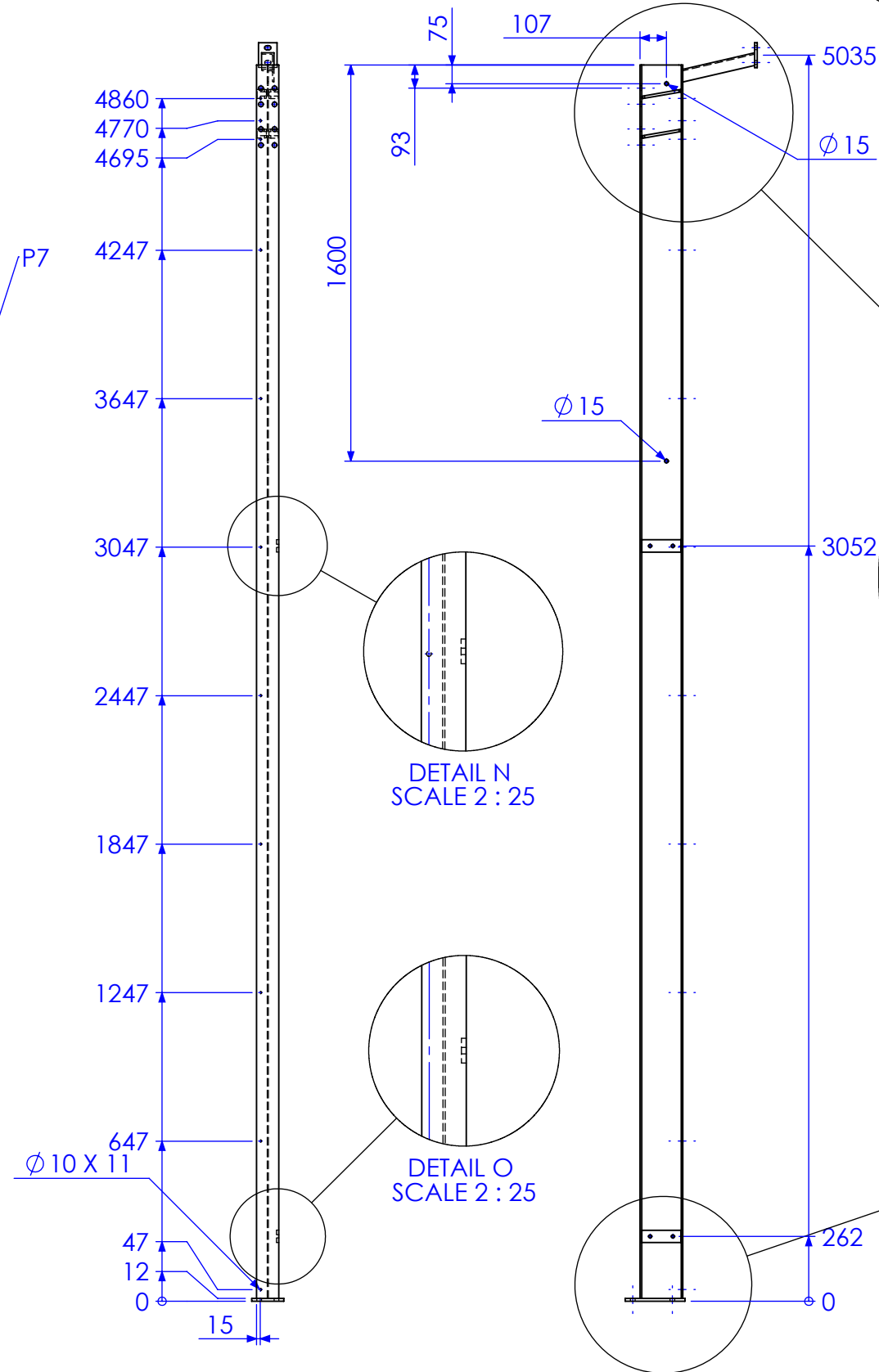
| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  |            |             |

|  |  |
|--|--|
| FINISH REQUIREMENTS- GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING  | APPROX. MASS: kg   |
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|   |                                |
|---|--------------------------------|
| DRAWING NOTES:<br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm | DO NOT SCALE IF IN DOUBT - ASK |
| SCALE   | 1:25 UNO                       |
| DRAWN   | SB 23/01/13                    |
| CHECK   | EG/NW 23/01/13                 |
| APPROVED  | -                              |

|                    |                |                                  |
|--------------------|----------------|----------------------------------|
| JOB NUMBER:        | 5248           | QTY: 1                           |
| DESCRIPTION        | FRONT COLUMN 1 | AS1100 THIRD ANGLE PROJECTION A3 |
| DRAWING No.        | PHCI FC1       | SHEET 6 of 21 REV 05             |
| PURPOSE OF DRAWING | FABRICATION    | Page 64 of 95                    |

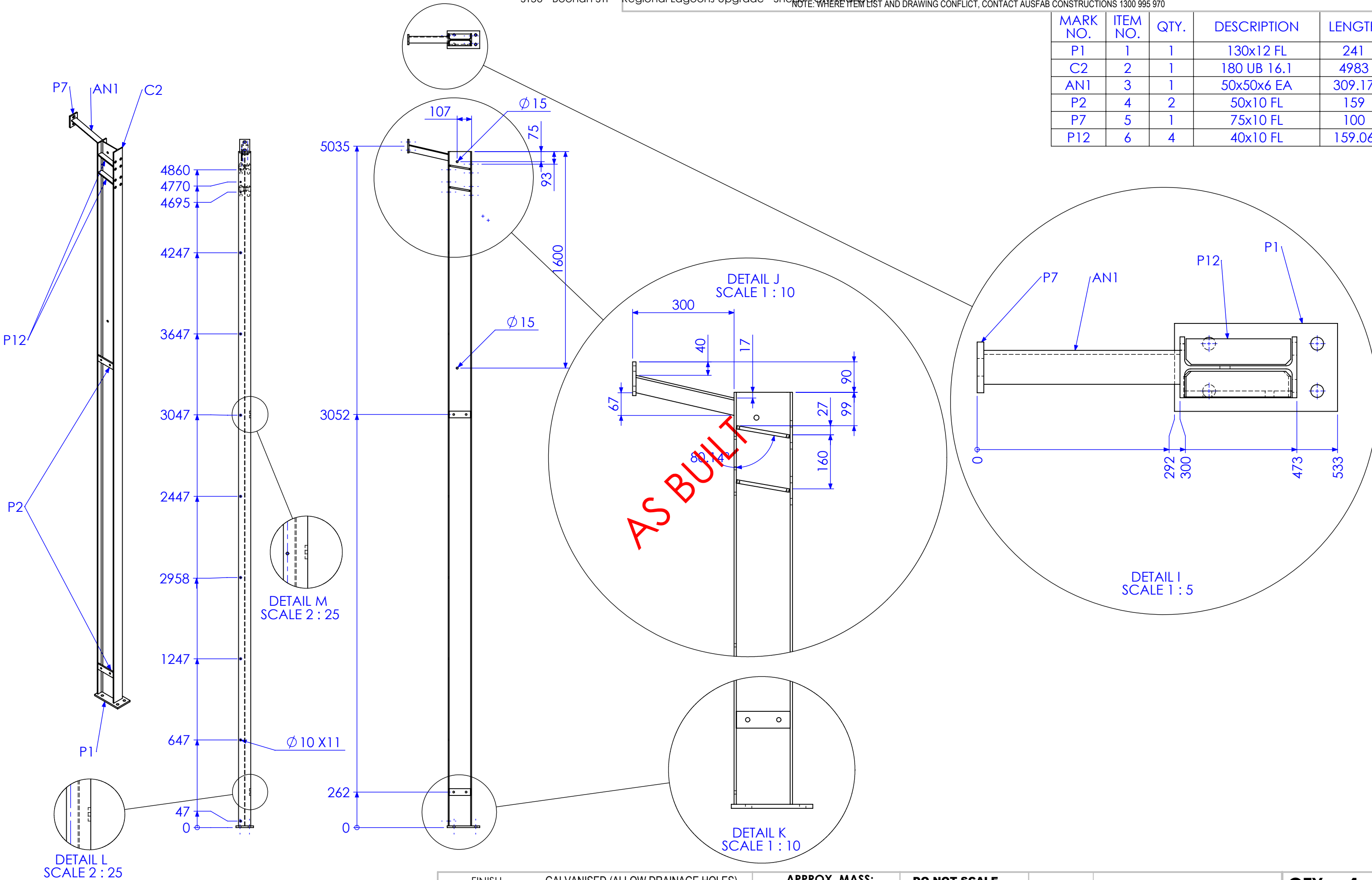
Technical drawing of a vertical assembly. Labels include C2, AN1, P7, P12, P2, P1, and a diameter symbol  $\varnothing$ .



| Q   | P | Issue Id  | TMS        | 1 | 64          |
|-----|---|---|------------|---|-------------|
| 01  |   | INITIAL ISSUE   | 23/01/2013 |   |             |
| 02  |   | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |   |             |
| 03  |   | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |   |             |
| 04  |   | UPDATE DIMENSIONS   | 20/02/2013 |   |             |
| 05  |   | AS BUILT DRGS   | 28/06/2013 |   |             |
| REV |   | AMMENDMENT  | DATE       |   | AMMENDED BY |

|   |  |   |  |   |  |   |  |   |  |          |  |  |  |
|---|--|---|--|---|--|---|--|---|--|----------|--|--|--|
| FINISH REQUIREMENTS-  |  | GALVANISED (ALLOW DRAINAGE HOLES)<br>THESE ARE NOT SHOWN ON DRAWING   |  | APPROX. MASS:<br>kg   |  | DO NOT SCALE<br>IF IN DOUBT - ASK   |  | JOB NUMBER:   |  | 5248     |  | QTY: 1   |  |
| <b>PROPRIETARY NOTICE</b><br>THIS DRAWING IS THE PROPERTY OF <b>AUSFAB CONSTRUCTIONS</b> . COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY <b>AUSFAB CONSTRUCTIONS</b> . THE DRAWINGS, IDEAS & INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES. |  | <br>40 Kenilworth Street,<br>Warwick, Queensland, Australia 4011<br>Phone: 1300 985 970<br>Fax: 1300 998 983 |  | DRAWING NOTES:<br><br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION $\pm 2.0\text{mm}$<br>MACHINING $\pm 0.25\text{mm}$ |  | SCALE: 1:25 UNO<br><br>DRAWN: SB 23/01/13<br><br>CHECK: EG/NW 23/01/13<br><br>APPROVED: - - |  | DESCRIPTION:<br><br><div style="text-align: center; font-size: 24px; font-weight: bold;">FRONT COLUMN 2</div> |  |          |  | AS1100<br>THIRD ANGLE PROJECTION<br>SHEET 7 of 21<br>REV 05<br>PURPOSE OF DRAWING: FABRICATION |  |
|   |  | Date: 15/05/2015  |  |   |  |   |  | DRAWING No.   |  | PHCI FC2 |  | Page 65 of 65  |  |

| MARK NO. | ITEM NO. | QTY. | DESCRIPTION | LENGTH |
|----------|----------|------|-------------|--------|
| P1       | 1        | 1    | 130x12 FL   | 241    |
| C2       | 2        | 1    | 180 UB 16.1 | 4983   |
| AN1      | 3        | 1    | 50x50x6 EA  | 309.17 |
| P2       | 4        | 2    | 50x10 FL    | 159    |
| P7       | 5        | 1    | 75x10 FL    | 100    |
| P12      | 6        | 4    | 40x10 FL    | 159.06 |



| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  |            |             |

|  |  |
|--|--|
| FINISH REQUIREMENTS-   | GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING |
| PROPRIETARY NOTICE   |  |
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|   |                                |
|---|--------------------------------|
| APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK |
| DRAWING NOTES:  |                                |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1. FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: |                                |
| FABRICATION ± 2.0mm   |                                |
| MACHINING ± 0.25mm  |                                |
| SCALE   | 1:25 UNO                       |
| DRAWN   | SB 23/01/13                    |
| CHECK   | EG/NW 23/01/13                 |
| APPROVED  | -                              |

|                               |                |        |
|-------------------------------|----------------|--------|
| JOB NUMBER:                   | 5248           | QTY: 1 |
| DESCRIPTION                   | FRONT COLUMN 3 |        |
| DRAWING No.                   | PHCI FC3       |        |
| PURPOSE OF DRAWING            | FABRICATION    |        |
| AS1100 THIRD ANGLE PROJECTION | A3             |        |
| SHEET 8 of 21                 | REV 05         |        |

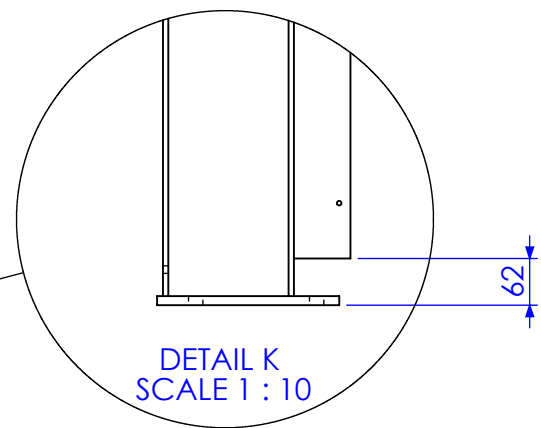
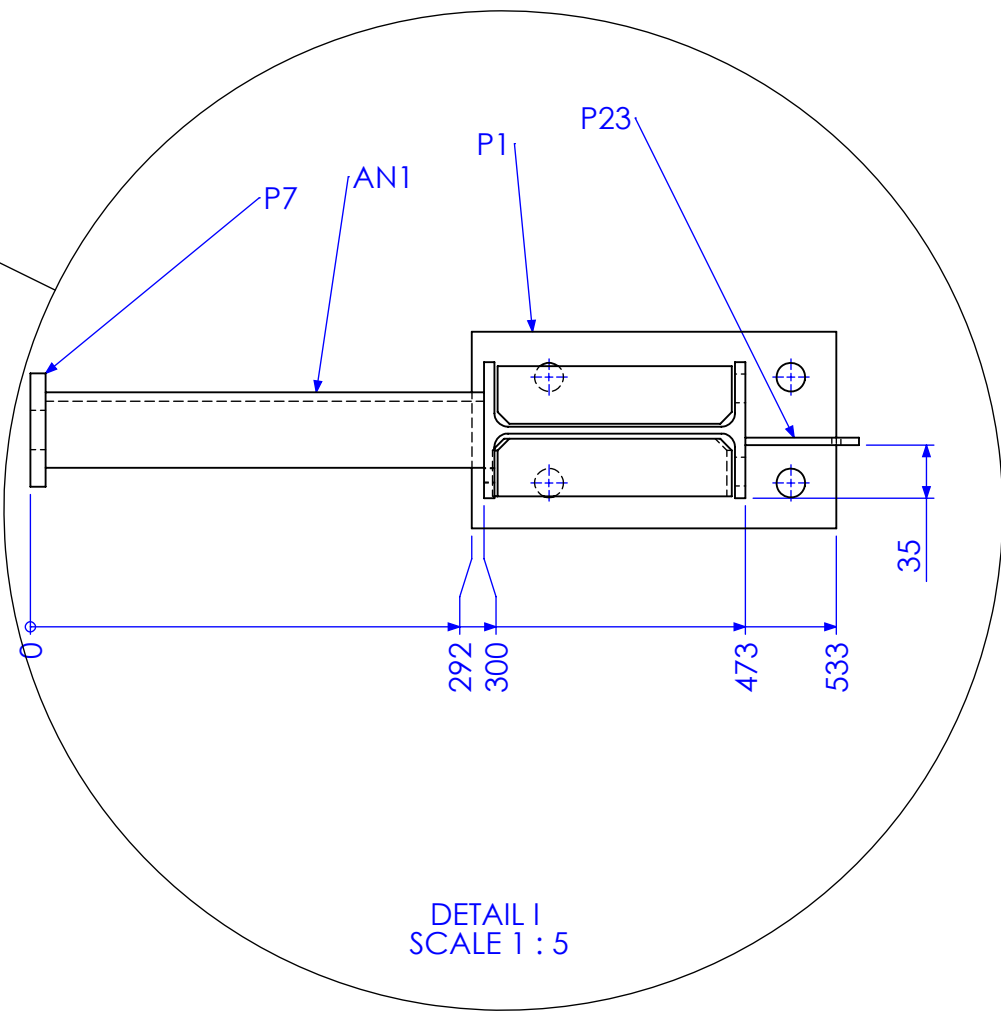
Technical drawing of a vertical structure, likely a chimney or stack, showing two views: a side elevation (left) and a front elevation (right).


**Side Elevation (Left):**

- Labels: P7, AN1, C2, P12, P23, P1.
- Dimension lines indicate heights from the base (0) to various points: 47, 647, 1247, 1847, 2447, 3047, 3647, 4247, 4695, 4770, 4860.
- Material specification:  $\phi 10 \times 11$ .

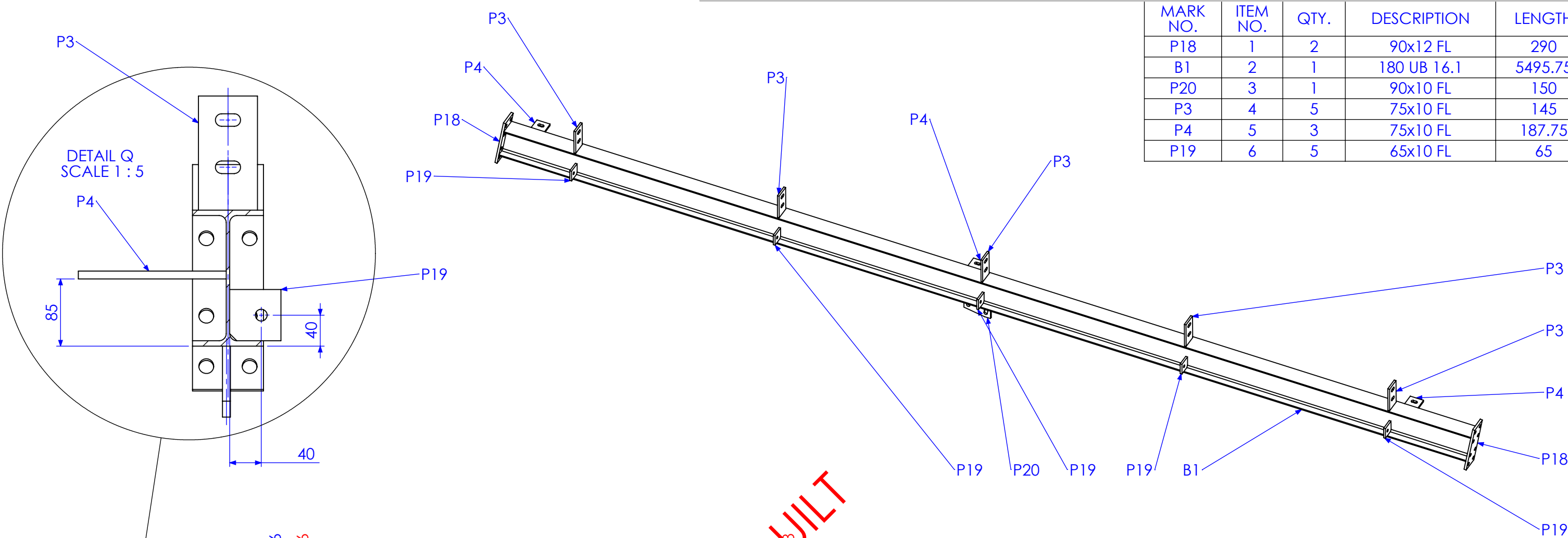
**Front Elevation (Right):**

- Labels:  $\phi 6$  TYP.
- Dimension lines indicate heights from the base (0) to various points: 62, 625, 1115, 1605, 2095, 2585, 3075, 3565, 4055, 4545, 4595, 4995, 5035.
- Top detail shows a cross-section of a pipe with a diameter of 6 inches.
- Bottom detail shows a cross-section of a pipe with a diameter of 10 inches.

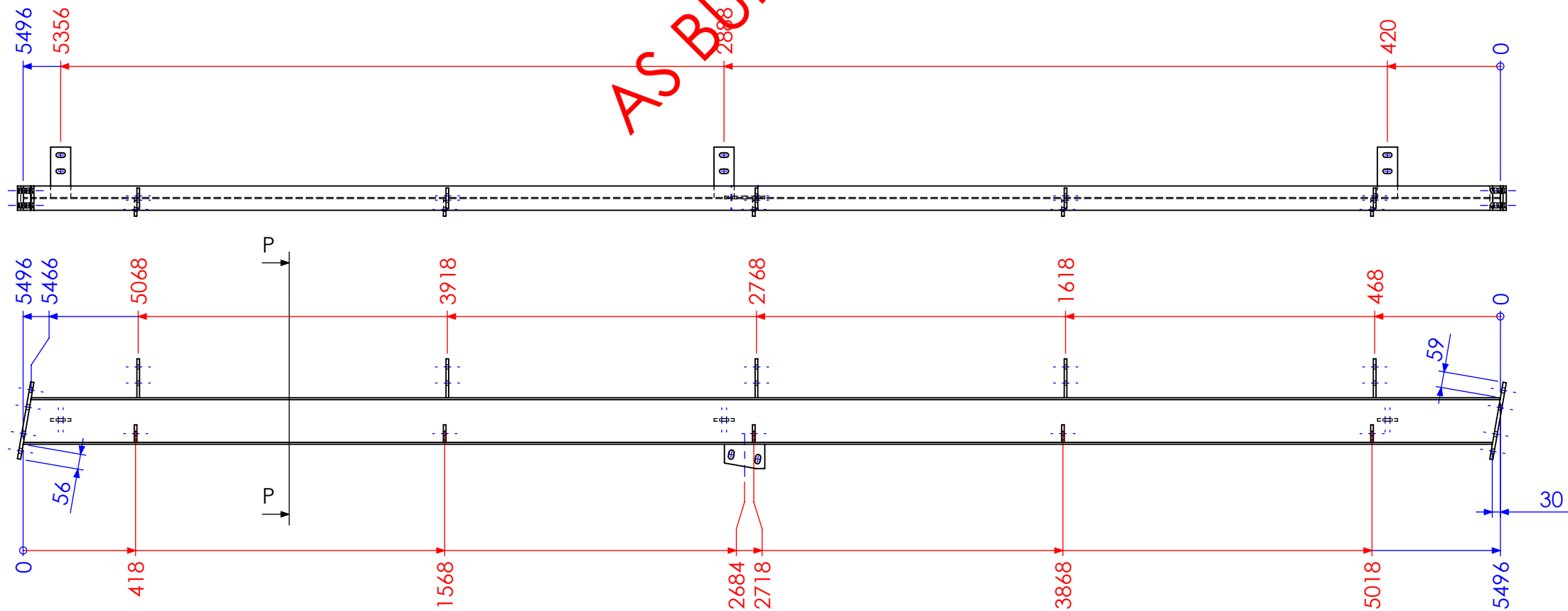


|   |  |   |  |   |  |  |  |   |  |   |  |   |  |
|---|--|---|--|---|--|--|--|---|--|---|--|---|--|
| FINISH REQUIREMENTS-  |  | GALVANISED (ALLOW DRAINAGE HOLES)<br>THESE ARE NOT SHOWN ON DRAWING   |  | APPROX. MASS:<br>kg   |  | DO NOT SCALE<br>IF IN DOUBT - ASK  |  | JOB NUMBER:   |  | 5248  |  | QTY: 1  |  |
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|   |  |   |  |   |  |  |  | DRAWING No.   |  | PHCI FC4  |  |   |  |

| MARK NO. | ITEM NO. | QTY. | DESCRIPTION | LENGTH  |
|----------|----------|------|-------------|---------|
| P18      | 1        | 2    | 90x12 FL    | 290     |
| B1       | 2        | 1    | 180 UB 16.1 | 5495.75 |
| P20      | 3        | 1    | 90x10 FL    | 150     |
| P3       | 4        | 5    | 75x10 FL    | 145     |
| P4       | 5        | 3    | 75x10 FL    | 187.75  |
| P19      | 6        | 5    | 65x10 FL    | 65      |



AS BUILT

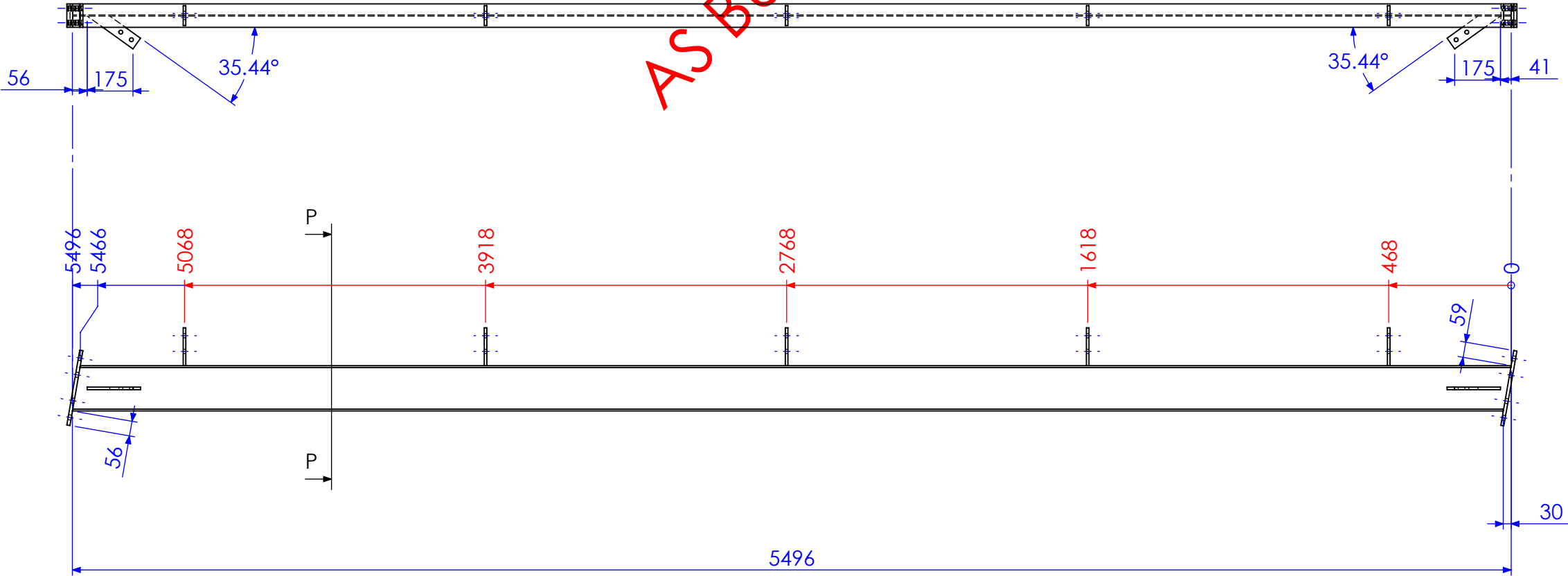
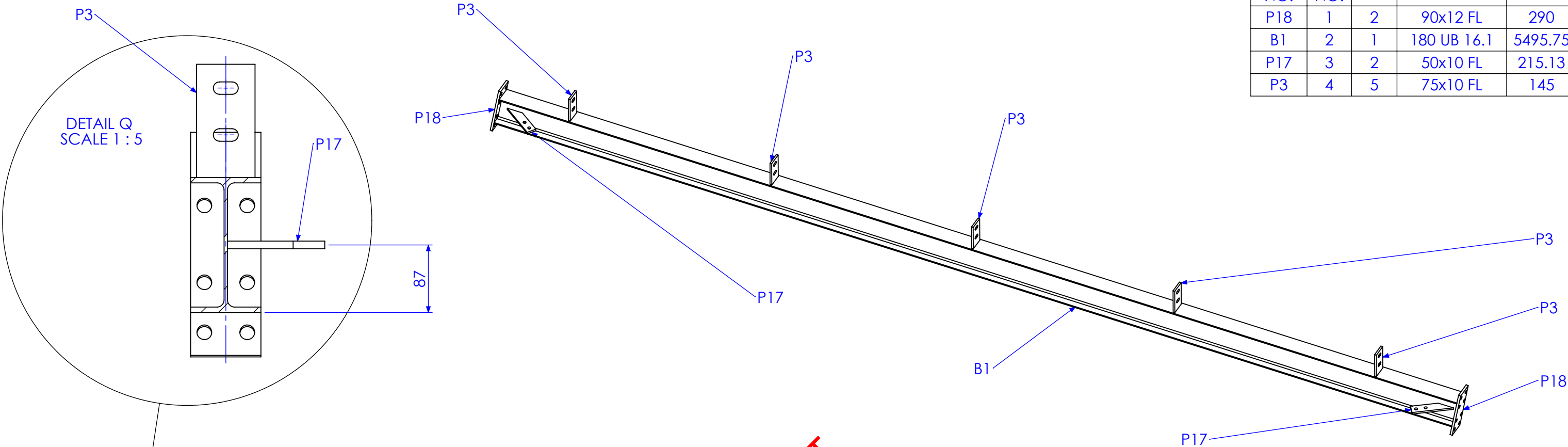


| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  |            |             |

|  |   |   |   |   |
|--|---|---|---|---|
| FINISH REQUIREMENTS- GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING  | APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK  | JOB NUMBER: 5248  | QTY: 1  |
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| PURPOSE OF DRAWING: FABRICATION  |   |   |   | AS1100 THIRD ANGLE PROJECTION A3<br>SHEET 10 of 21 REV 05 |




| MARK NO. | ITEM NO. | QTY. | DESCRIPTION | LENGTH  |
|----------|----------|------|-------------|---------|
| P18      | 1        | 2    | 90x12 FL    | 290     |
| B1       | 2        | 1    | 180 UB 16.1 | 5495.75 |
| P17      | 3        | 2    | 50x10 FL    | 215.13  |
| P3       | 4        | 5    | 75x10 FL    | 145     |

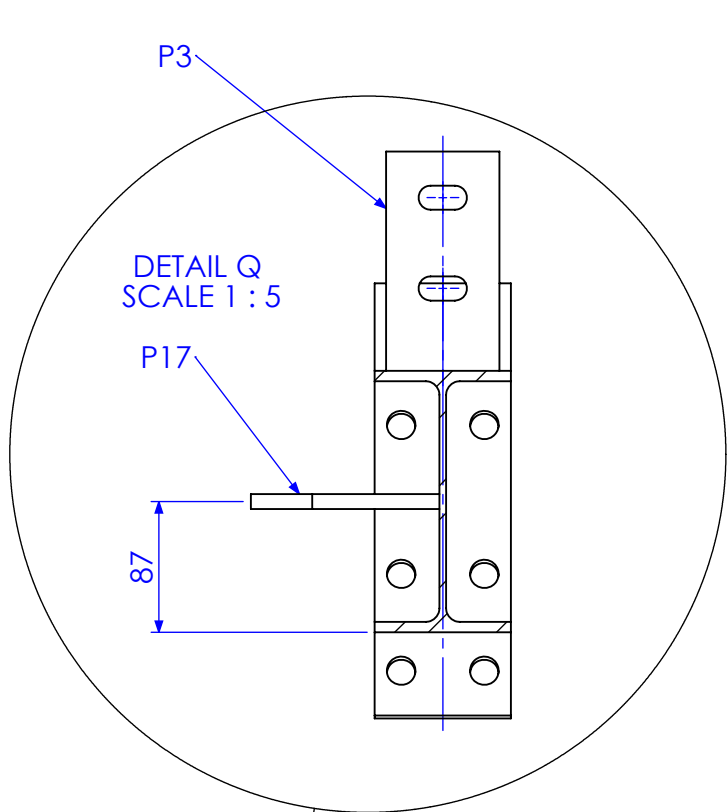


SECTION P-P

| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  |            |             |

|  |  |   |  |   |  |                                |  |             |  |  |  |             |  |          |  |  |                        |  |
|--|--|---|--|---|--|--------------------------------|--|-------------|--|--|--|-------------|--|----------|--|--|------------------------|--|
| FINISH REQUIREMENTS-   |  | GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING  |  | APPROX. MASS: kg  |  | DO NOT SCALE IF IN DOUBT - ASK |  | JOB NUMBER: |  | 5248   |  | QTY: 1      |  |          |  |  |                        |  |
| PROPRIETARY NOTICE   |  |  <div>40 Kenilworth Street,<br/>Warwick, Queensland, Australia 4011<br/>Phone: 1300 995 970<br/>Fax: 1300 998 983<br/>15/05/2015</div> |  | DRAWING NOTES:  |  | SCALE                          |  | 1:20 UNO    |  | DESCRIPTION<br><br><div>PORTAL FRAME 2</div> |  |             |  | AS1100   |  | A3   |                        |  |
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|  |  |   |  | FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm   |  | CHECK                          |  | EG/NW       |  |  |  |             |  | 23/01/13 |  |  | SHEET 11 of 21         |  |
|  |  |   |  |   |  | APPROVED                       |  | -           |  | -  |  | DRAWING No. |  | PHCI PF2 |  | PURPOSE OF DRAWING<br>Page 69 of 95<br>FABRICATION |                        |  |

| MARK NO. | QTY. | DESCRIPTION | LENGTH  |
|----------|------|-------------|---------|
| P18      | 2    | 90x12 FL    | 290     |
| B1       | 1    | 180 UB 16.1 | 5495.75 |
| P17      | 2    | 50x10 FL    | 215.13  |
| P3       | 5    | 75x10 FL    | 145     |

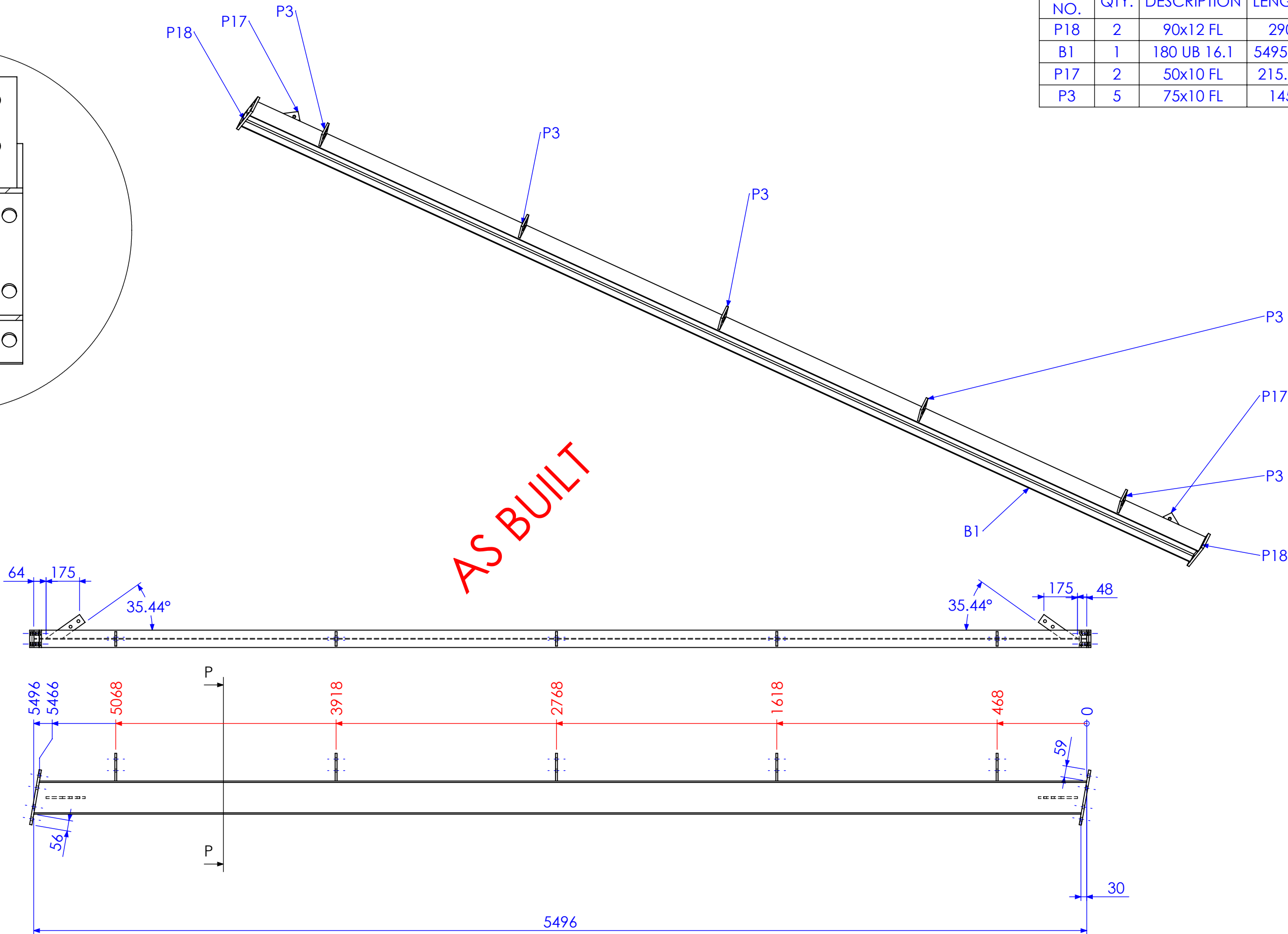


P17

DETAIL Q  
SCALE 1 : 5

87

P3



AS BUILT

SECTION P-P

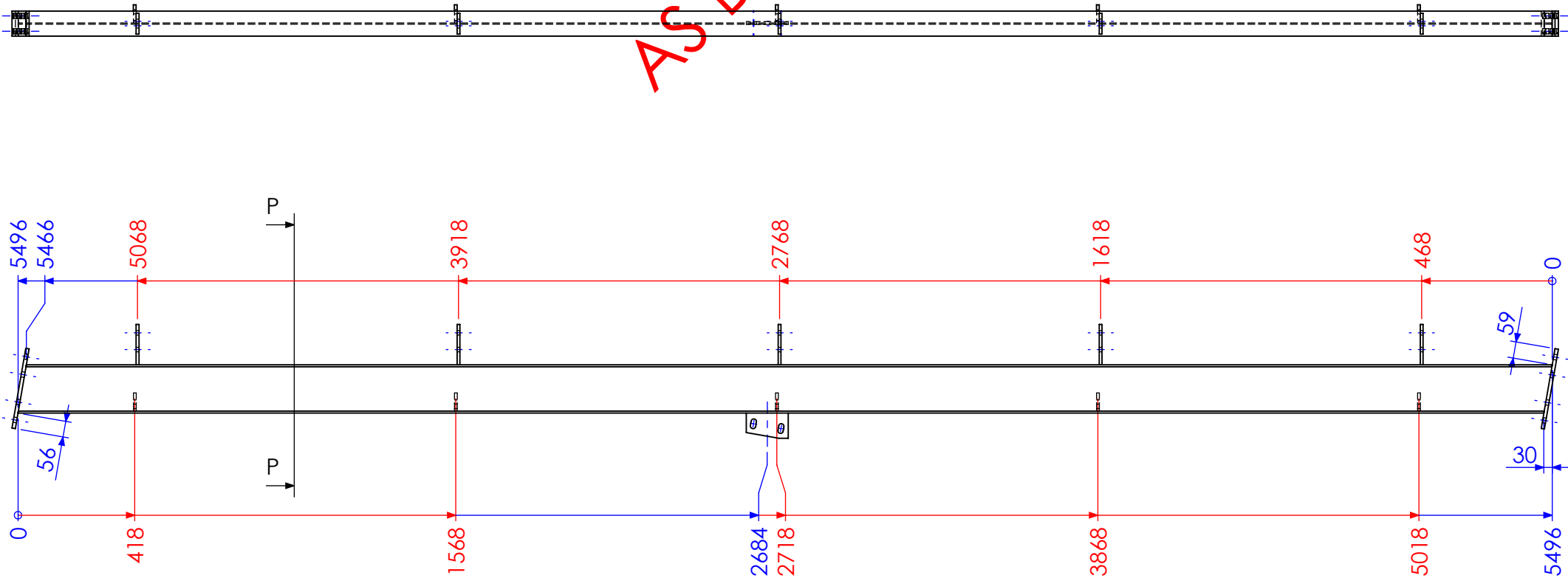
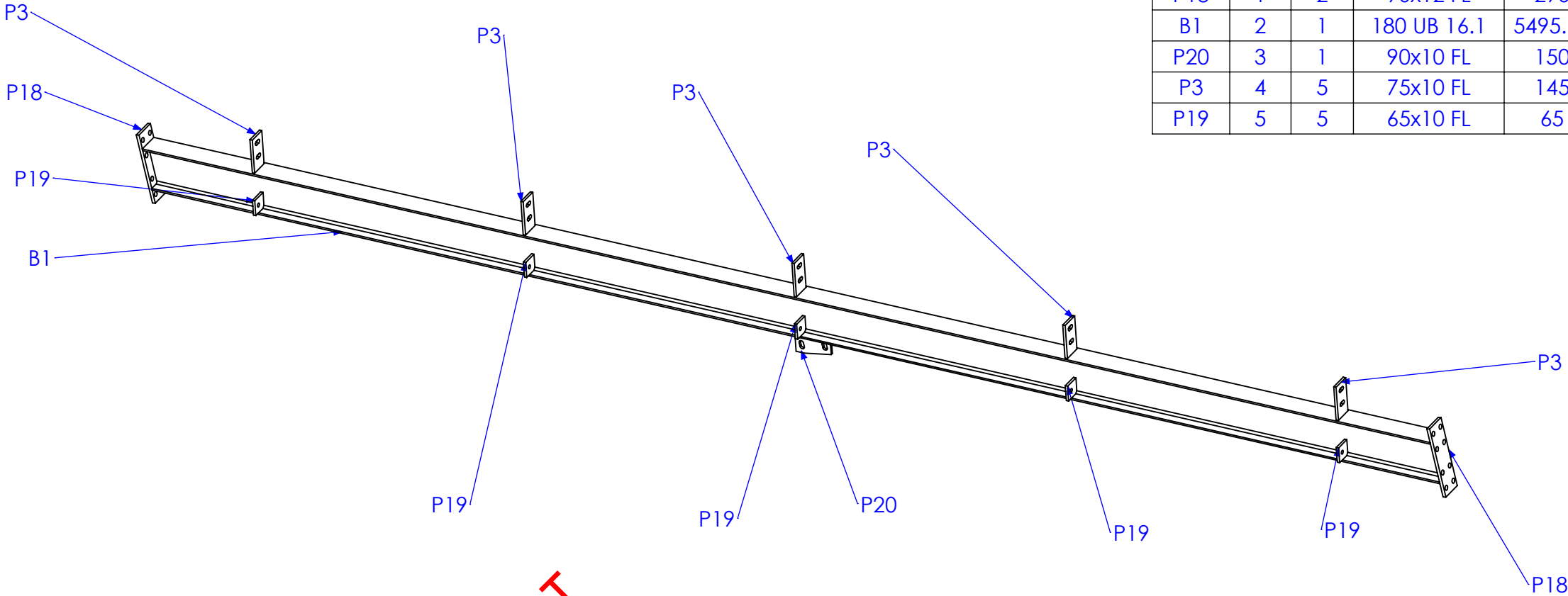
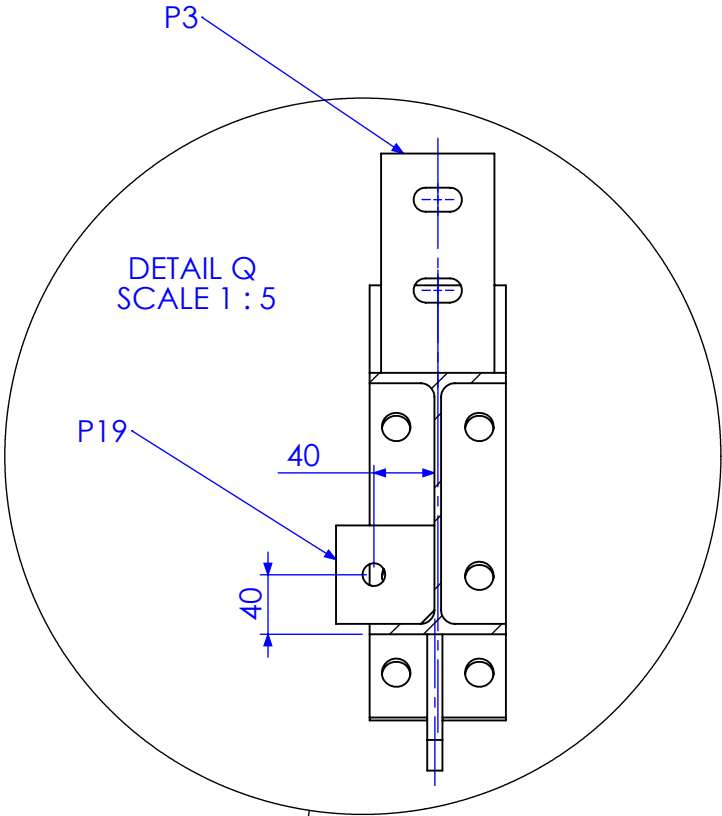
| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  |            |             |

Q:\Pulse Id TMS1164

REVISIONS

| FINISH REQUIREMENTS- |  | GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING   |  | APPROX. MASS: kg  |  | DO NOT SCALE IF IN DOUBT - ASK |  | JOB NUMBER:            | 5248 | QTY: 1 |
|----------------------|--|--|--|---|--|--------------------------------|--|------------------------|------|--------|
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| AUSFAB CONSTRUCTIONS |  | 40 Kenilworth Street, Warwick, Queensland, Australia 4011 Phone: 1300 995 970 Fax: 1300 998 983  |  | ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1. FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: |  | 1:20 UNO                       |  | AS1100                 |      |        |
|                      |  |  |  | FABRICATION ± 2.0mm   |  | DRAWN                          |  | THIRD ANGLE PROJECTION |      |        |
|                      |  |  |  | MACHINING ± 0.25mm  |  | SB                             |  | A3                     |      |        |
|                      |  |  |  |   |  | EG/NW                          |  | SHEET 12 of 21         |      |        |
|                      |  |  |  |   |  | -                              |  | REV 05                 |      |        |
|                      |  |  |  |   |  |                                |  | PURPOSE OF DRAWING     |      |        |
|                      |  |  |  |   |  |                                |  | FABRICATION            |      |        |
|                      |  |  |  |   |  |                                |  | DRAWING No. PHCI PF3   |      |        |

| MARK NO. | ITEM NO. | QTY. | DESCRIPTION | LENGTH  |
|----------|----------|------|-------------|---------|
| P18      | 1        | 2    | 90x12 FL    | 290     |
| B1       | 2        | 1    | 180 UB 16.1 | 5495.75 |
| P20      | 3        | 1    | 90x10 FL    | 150     |
| P3       | 4        | 5    | 75x10 FL    | 145     |
| P19      | 5        | 5    | 65x10 FL    | 65      |

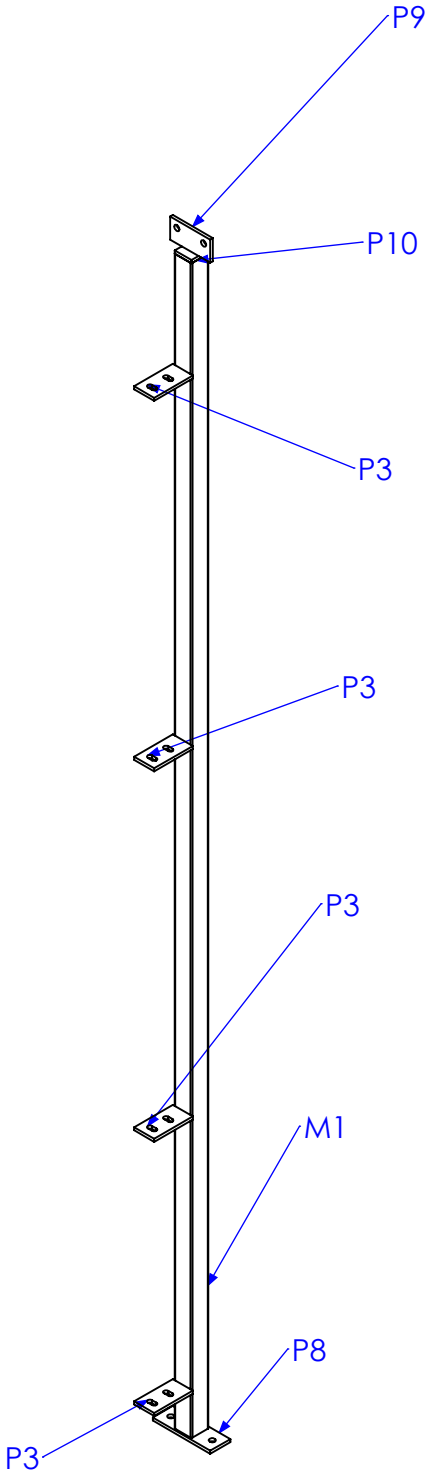
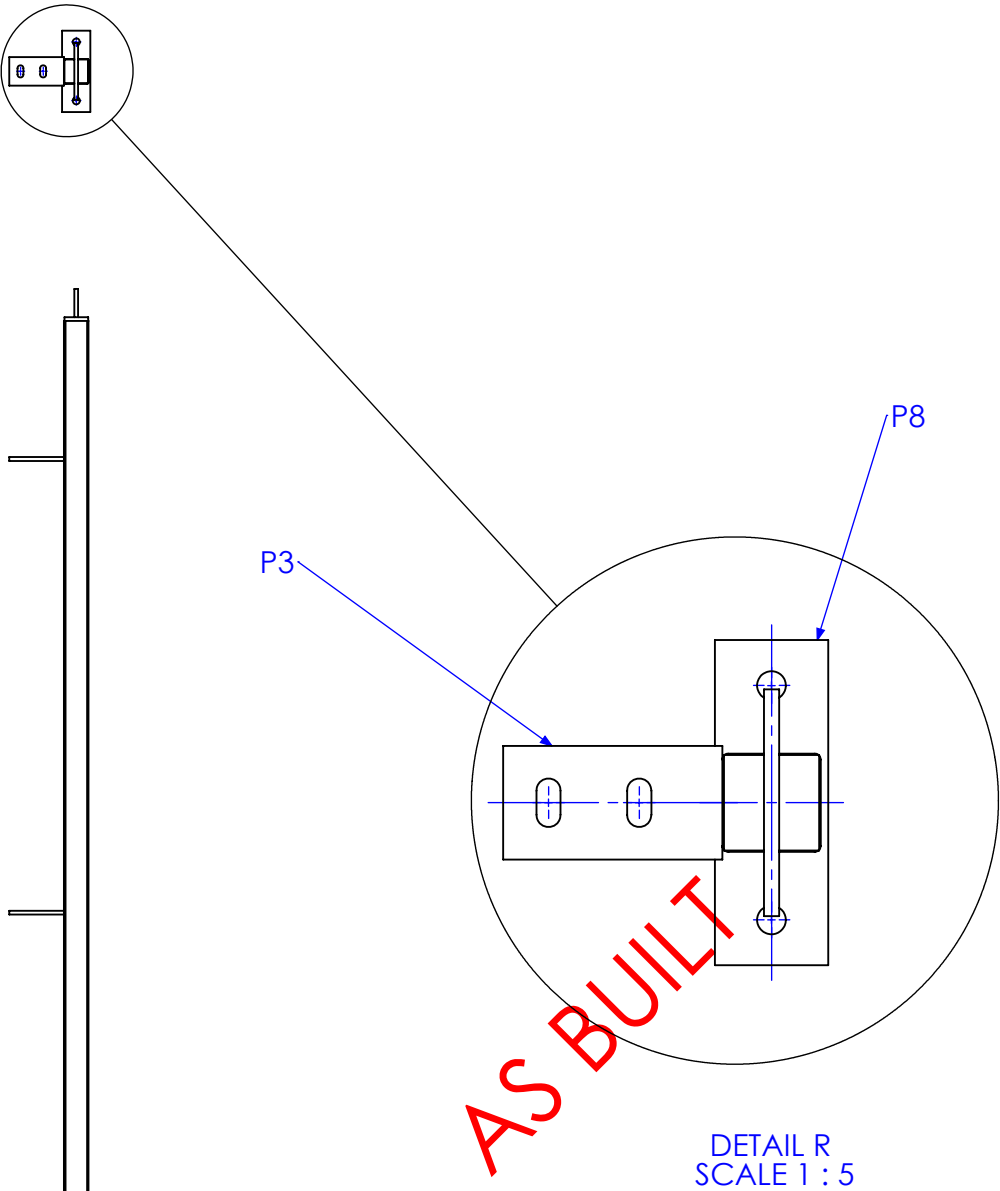
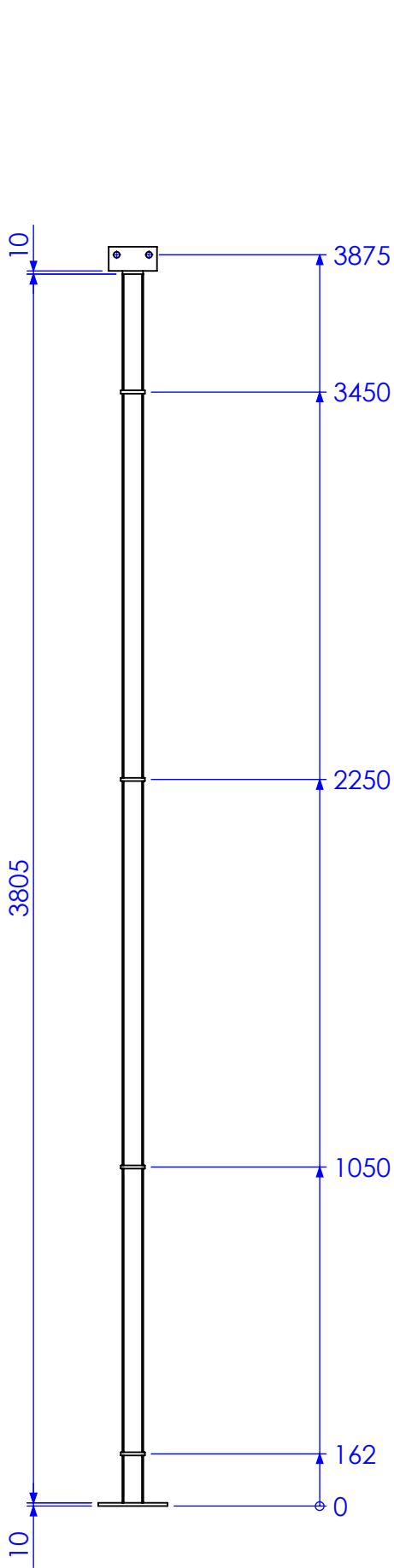


SECTION P-P

| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  |            |             |

|  |  |  |  |   |  |                                 |        |
|--|--|--|--|---|--|---------------------------------|--------|
| FINISH REQUIREMENTS- GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING  |  | APPROX. MASS: kg   |  | DO NOT SCALE IF IN DOUBT - ASK  |  | JOB NUMBER: 5248                | QTY: 1 |
| PROPRIETARY NOTICE<br>THIS DRAWING IS THE PROPERTY OF AUSFAB CONSTRUCTIONS. COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY AUSFAB CONSTRUCTIONS. THE DRAWINGS, IDEAS & INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES. |  | DRAWING NOTES:<br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1. FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm |  | SCALE: 1:20 UNO<br>DRAWN: SB 23/01/13<br>CHECK: EG/NW 23/01/13<br>APPROVED: - - |  | DESCRIPTION: PORTAL FRAME 4     |        |
| AUSFAB CONSTRUCTIONS<br>40 Kenilworth Street, Warwick, Queensland, Australia 4011<br>Phone: 1300 995 970<br>Fax: 1300 998 983<br>15/05/2015  |  | AS1100 THIRD ANGLE PROJECTION  |  | SHEET 13 of 21  |  | REV 05                          |        |
| Q-Pulse Id TMS1164   |  | REVISIONS  |  | DRAWING No. PHCI PF4  |  | PURPOSE OF DRAWING: FABRICATION |        |

| MARK NO. | ITEM NO. | QTY. | DESCRIPTION    | LENGTH  |
|----------|----------|------|----------------|---------|
| M1       | 1        | 1    | 65x65x2 SHS    | 3805.03 |
| P8       | 2        | 1    | 75x10 FL       | 215     |
| P10      | 3        | 1    | 10MM CAP PLATE | 63 X 63 |
| P9       | 4        | 1    | 75x10 FL       | 150     |
| P3       | 5        | 4    | 75x10 FL       | 145     |



| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  |            |             |

FINISH REQUIREMENTS-

GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING

APPROX. MASS: kg

DO NOT SCALE IF IN DOUBT - ASK

JOB NUMBER:

5248

QTY: 2

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**AusFAB**  
CONSTRUCTIONS  
40 Kenilworth Street,  
Warwick, Queensland, Australia 4011  
Phone: 1300 995 970  
Fax: 1300 998 983  
15/05/2015

DRAWING NOTES:  
ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.  
FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:  
FABRICATION ± 2.0mm  
MACHINING ± 0.25mm

|          |                |
|----------|----------------|
| SCALE    | 1:20 UNO       |
| DRAWN    | SB 23/01/13    |
| CHECK    | EG/NW 23/01/13 |
| APPROVED | - -            |

DESCRIPTION

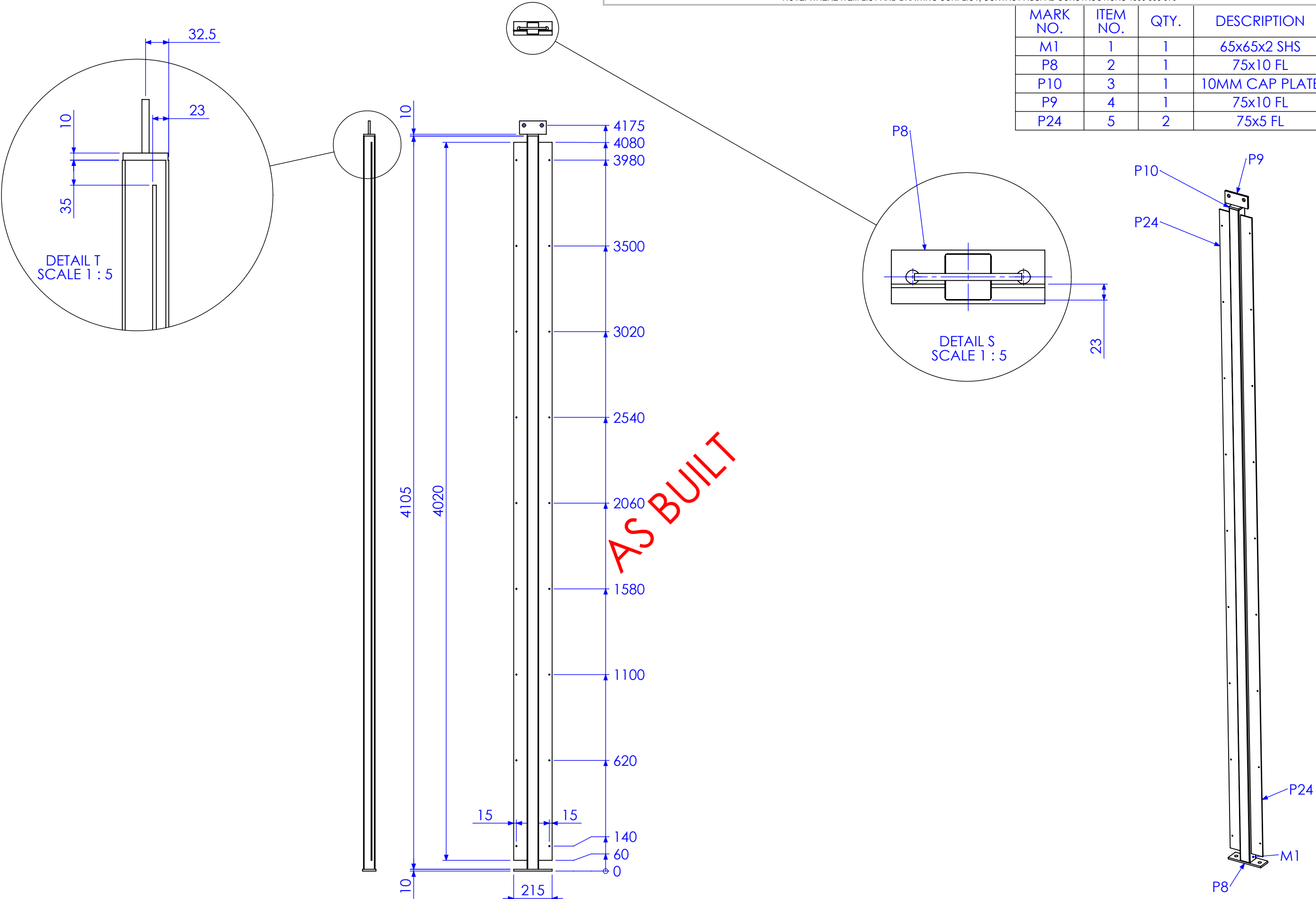
PHCI MULLION 1

DRAWING No.

PHCI M1

|                                   |        |
|-----------------------------------|--------|
| AS1100<br>THIRD ANGLE PROJECTION  | A3     |
| SHEET 14 of 21                    | REV 05 |
| PURPOSE OF DRAWING<br>FABRICATION |        |

| MARK NO. | ITEM NO. | QTY. | DESCRIPTION    | LENGTH  |
|----------|----------|------|----------------|---------|
| M1       | 1        | 1    | 65x65x2 SHS    | 4105.03 |
| P8       | 2        | 1    | 75x10 FL       | 215     |
| P10      | 3        | 1    | 10MM CAP PLATE | 63 X 63 |
| P9       | 4        | 1    | 75x10 FL       | 150     |
| P24      | 5        | 2    | 75x5 FL        | 4020.03 |



| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  | DATE       | AMMENDED BY |

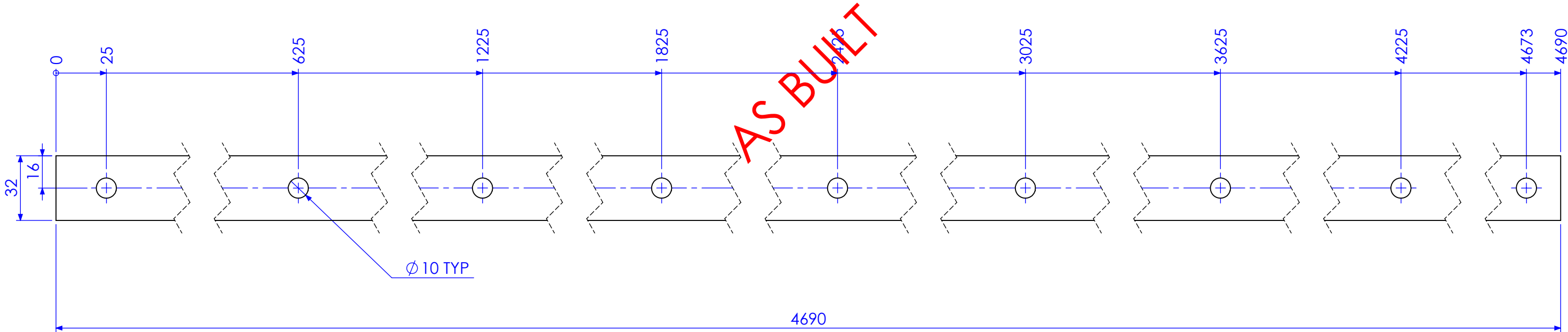
|  |   |
|--|---|
| FINISH REQUIREMENTS-   | GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING  |
| PROPRIETARY NOTICE   | <b>AusFAB CONSTRUCTIONS</b>   |
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|   |                                |
|---|--------------------------------|
| APPROX. MASS: kg  | DO NOT SCALE IF IN DOUBT - ASK |
| DRAWING NOTES:  | SCALE 1:20 UNO                 |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1. FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: | DRAWN SB 23/01/13              |
| FABRICATION ± 2.0mm   | CHECK EG/NW 23/01/13           |
| MACHINING ± 0.25mm  | APPROVED - -                   |


|                    |                |                                  |
|--------------------|----------------|----------------------------------|
| JOB NUMBER:        | 5248           | QTY: 2                           |
| DESCRIPTION        | PHCI MULLION 2 | AS1100 THIRD ANGLE PROJECTION A3 |
| DRAWING No.        | PHCI M2        | SHEET 15 of 21 REV 05            |
| PURPOSE OF DRAWING | FABRICATION    | Page 73 of 95                    |



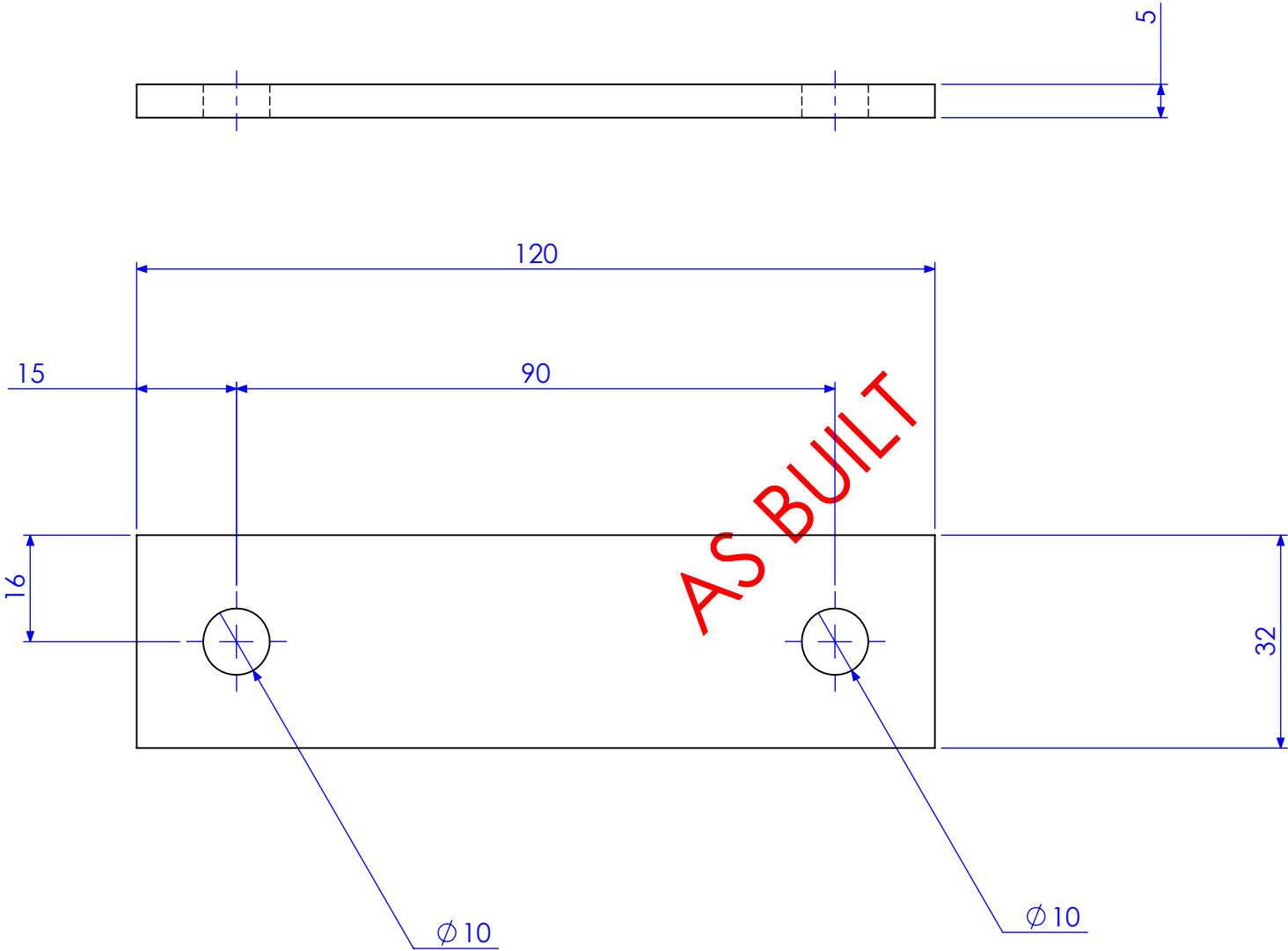
| MARK NO. | DESCRIPTION | LENGTH |
|----------|-------------|--------|
| MCB 1    | 32x5 FL     | 4690   |




| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  |            |             |

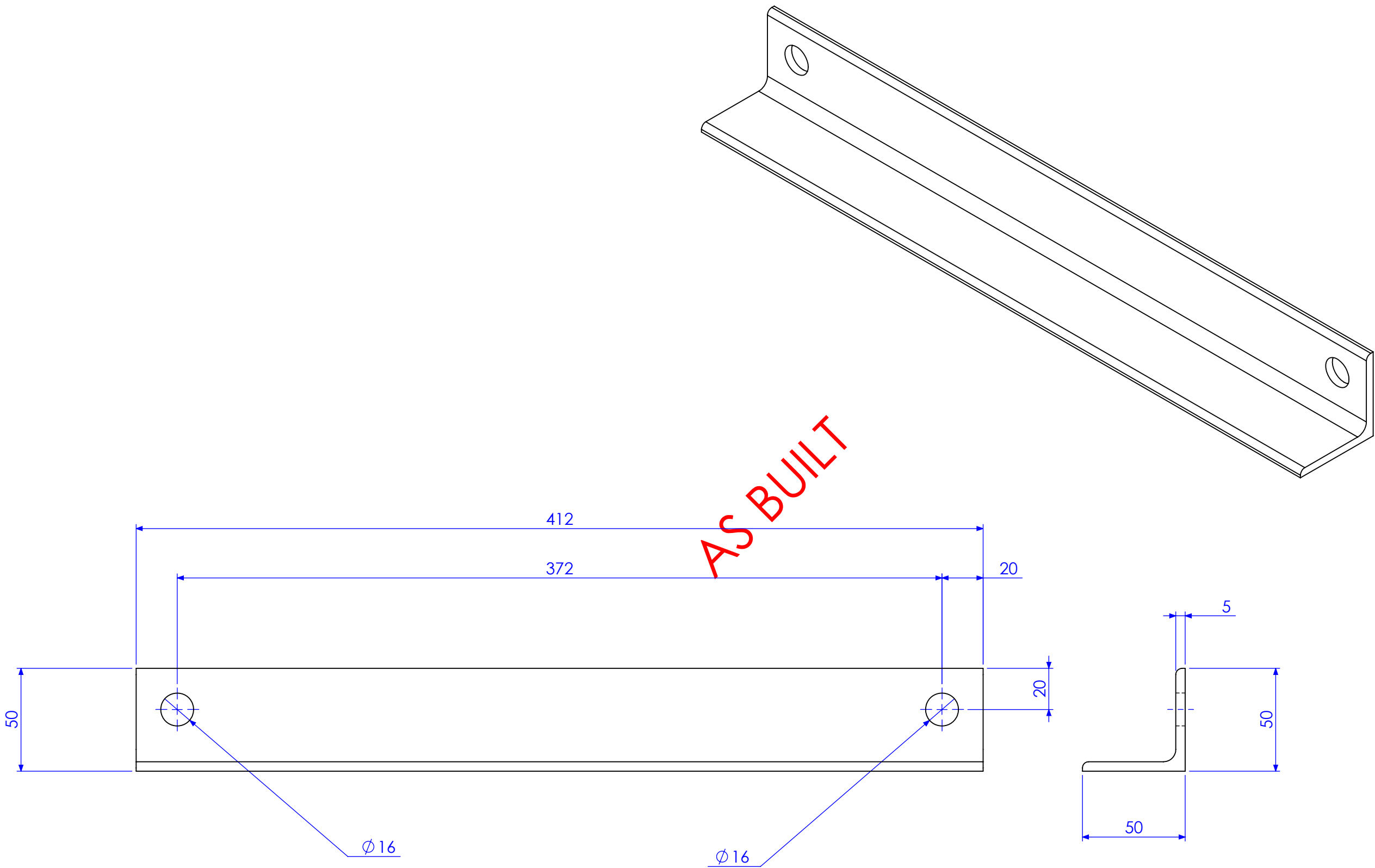
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|---|--|---|--|---|--|---|--|---|--|---|--|
| FINISH REQUIREMENTS- GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING   |  | APPROX. MASS: kg  |  | DO NOT SCALE IF IN DOUBT - ASK  |  | JOB NUMBER: 5248  |  | QTY: 4  |  |   |  |
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| MARK NO. | DESCRIPTION | LENGTH |
|----------|-------------|--------|
| MCB 2    | 32x5 FL     | 120    |




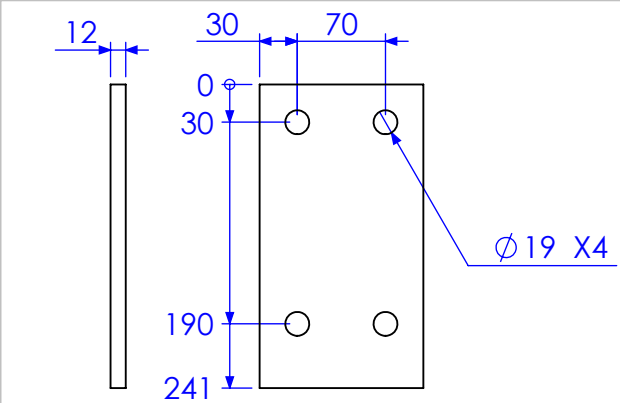
| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  |            |             |

|  |  |  |  |   |  |                                |  |                |             |  |      |       |        |                                  |  |               |  |
|--|--|--|--|---|--|--------------------------------|--|----------------|-------------|--|------|-------|--------|----------------------------------|--|---------------|--|
| FINISH REQUIREMENTS-   |  | GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING   |  | APPROX. MASS: kg  |  | DO NOT SCALE IF IN DOUBT - ASK |  |                | JOB NUMBER: |  | 5248 |       | QTY: 4 |                                  |  |               |  |
| PROPRIETARY NOTICE   |  |  <div>40 Kenilworth Street,<br/>Warwick, Queensland, Australia 4011<br/>Phone: 1300 995 970<br/>Fax: 1300 998 983<br/>Date 15/05/2015</div> |  | DRAWING NOTES:  |  | SCALE                          |  | 1:50 UNO       |             | DESCRIPTION<br><br><b>MESH CLAMP BAR 2</b> |      |       |        | AS1100<br>THIRD ANGLE PROJECTION |  | A3            |  |
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|  |  |  |  | FABRICATION ± 2.0mm   |  | CHECK                          |  | EG/NW 23/01/13 |             |  |      |       |        | PURPOSE OF DRAWING               |  | Page 75 of 95 |  |
|  |  |  |  | MACHINING ± 0.25mm  |  | APPROVED                       |  | - -            |             | DRAWING No.                                |      | MCB 2 |        | FABRICATION                      |  |               |  |

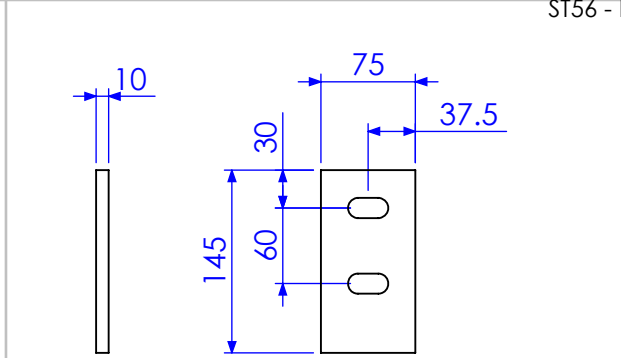


| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
|     | AMMENDMENT  |            |             |

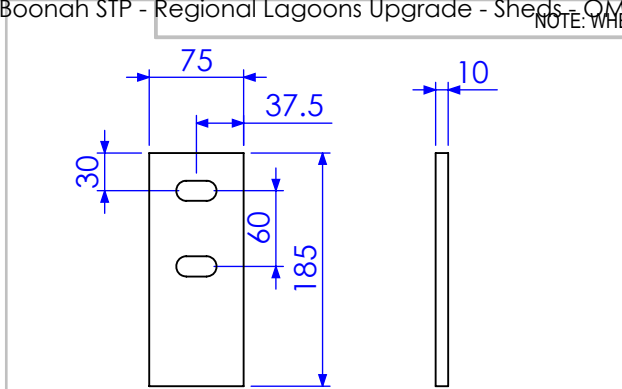
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|---|--|---|--|--|--|--------------------------------|--|----------------|--|--|--|---------|--|------------------------|--|--------|--|
| FINISH REQUIREMENTS-  |  | GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING  |  | APPROX. MASS: kg   |  | DO NOT SCALE IF IN DOUBT - ASK |  | JOB NUMBER:    |  | 5248   |  | QTY: 10 |  |                        |  |        |  |
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|   |  |   |  |  |  | DRAWN                          |  | SB 23/01/13    |  |  |  |         |  | THIRD ANGLE PROJECTION |  |        |  |
|   |  |   |  |  |  | CHECK                          |  | EG/NW 23/01/13 |  |  |  |         |  | SHEET 18 of 21         |  | REV 05 |  |
|   |  |   |  |  |  | APPROVED                       |  | - -            |  |  |  |         |  | PURPOSE OF DRAWING     |  |        |  |
|   |  |   |  |  |  |                                |  |                |  |  |  |         |  | DRAWING No.            |  | PFB    |  |



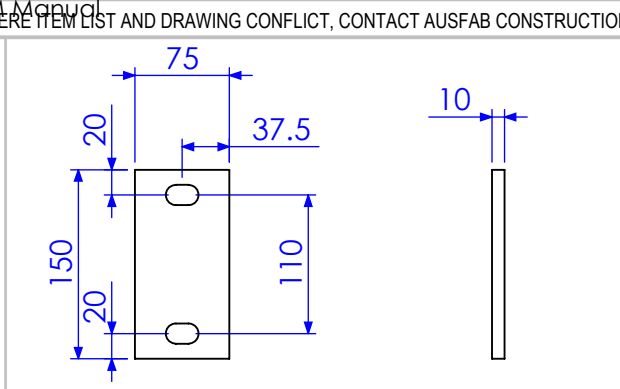
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8 QTY  
130x12 FL



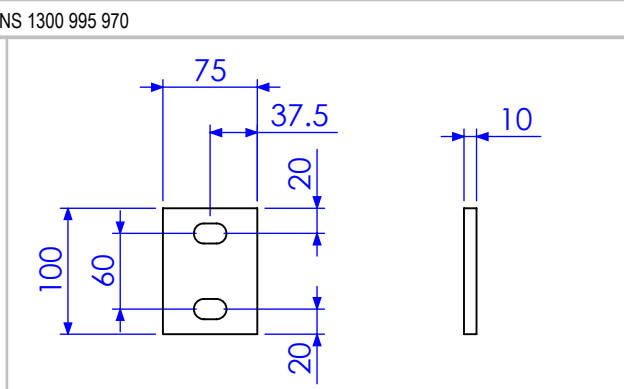
P3  
36 QTY  
75x10 FL



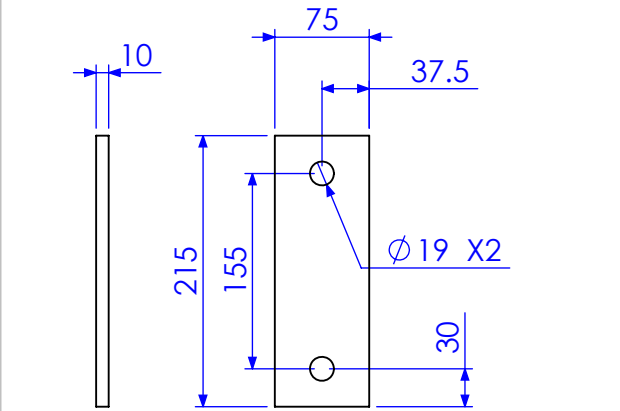
P4  
11 QTY  
75x10 FL



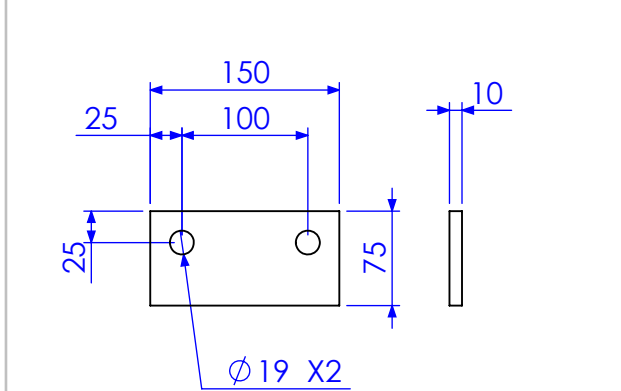
P6  
4 QTY  
75x10 FL



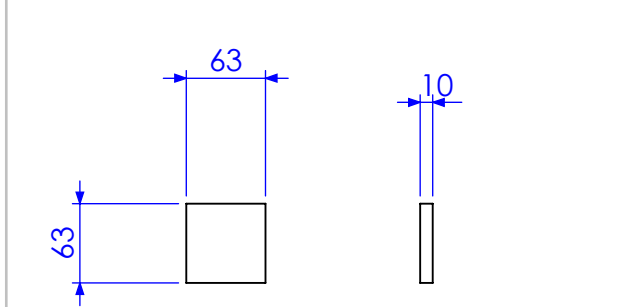
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4 QTY  
75x10 FL



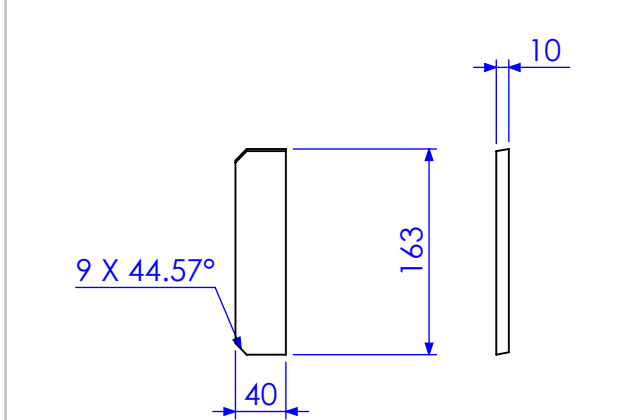
P8  
2 QTY  
75x10 FL



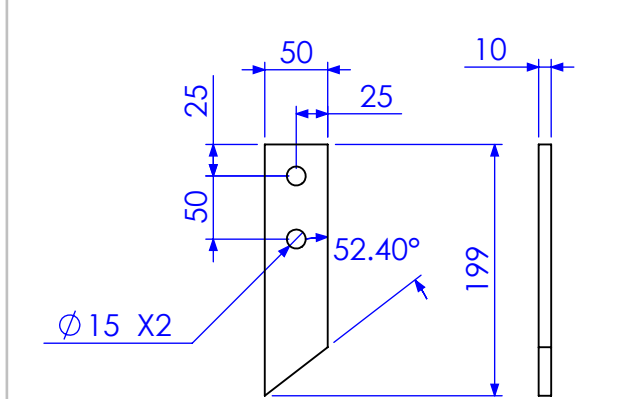
P9  
2 QTY  
75x10 FL



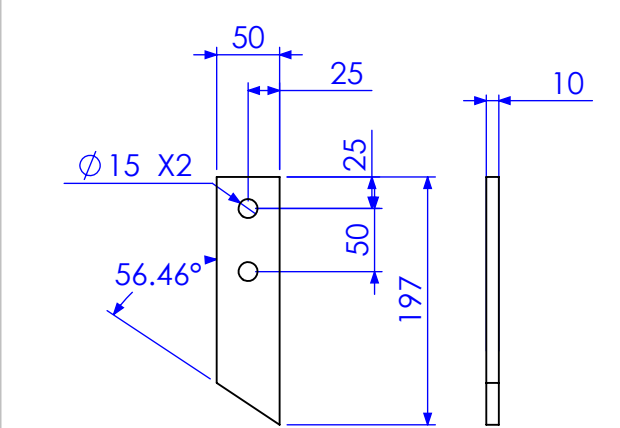
P10  
2 QTY  
10MM CAP PLATE



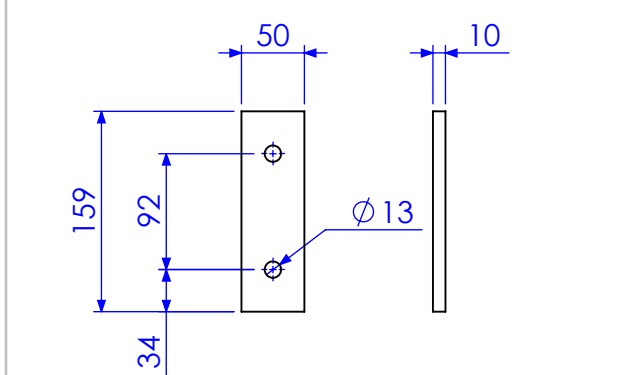
P12  
48 QTY  
40x10 FL



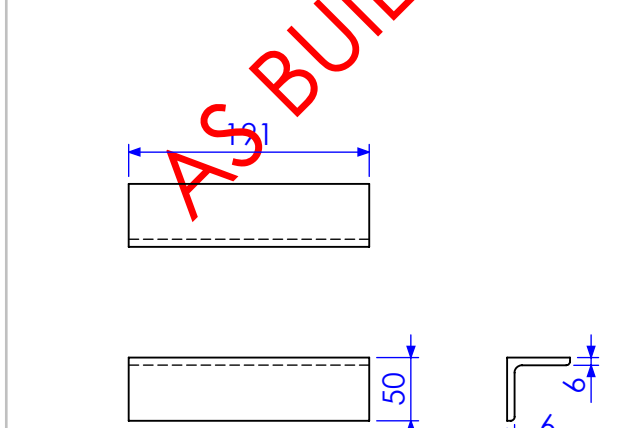
P13  
2 QTY  
50x10 FL



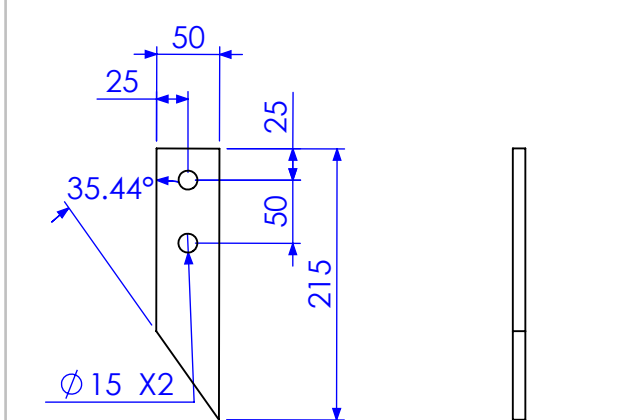
P14  
2 QTY  
50x10 FL



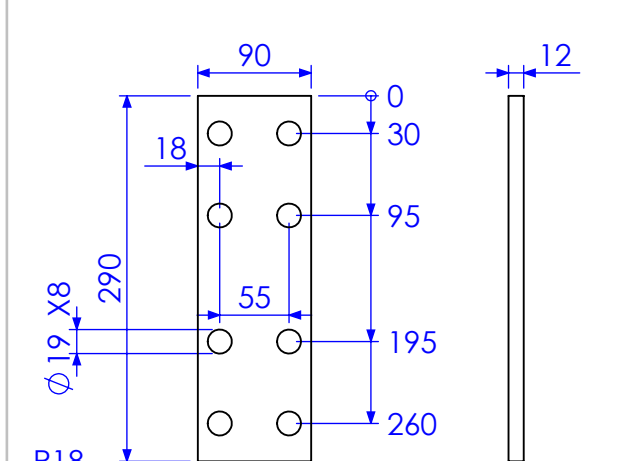
P2  
4 QTY  
50x10 FL



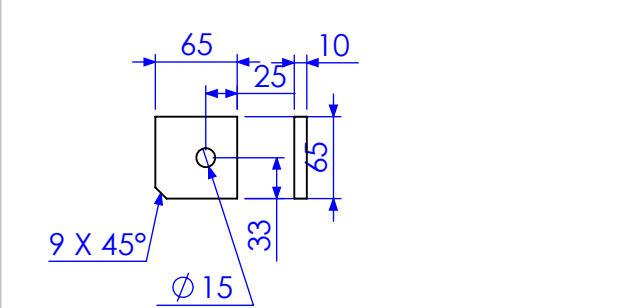
AN2  
4 QTY  
50x50x6 EA



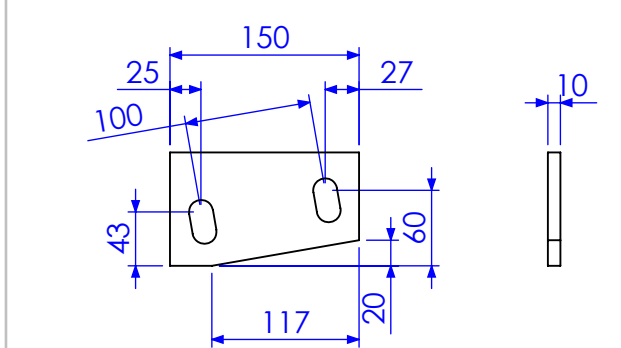
P17  
4 QTY  
50x10 FL



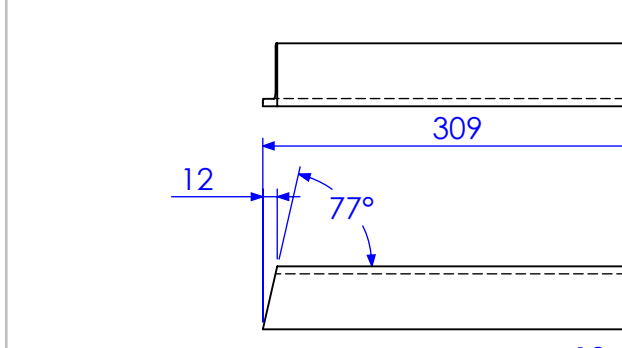
P18  
8 QTY  
90x12 FL



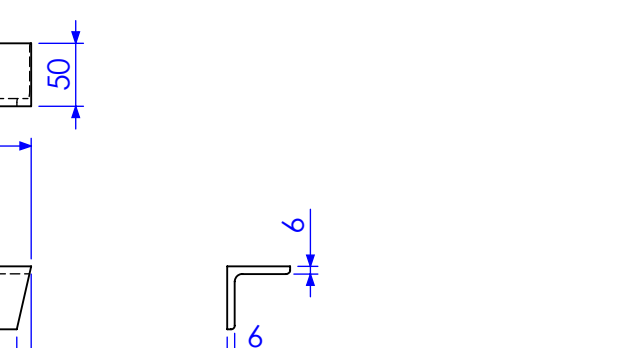
P19  
10 QTY  
65x10 FL



P20  
2 QTY  
90x10 FL



AN1  
4 QTY  
50x50x6 EA



P15  
4 QTY  
50x10 FL

ALL SLOTS TO BE 16X32

FINISH  
REQUIREMENTS-

GALVANISED (ALLOW DRAINAGE HOLES)  
THESE ARE NOT SHOWN ON DRAWING

APPROX. MASS:  
kg

DO NOT SCALE  
IF IN DOUBT - ASK

JOB NUMBER:

5248

QTY: AS  
ABOVE

| NO  | REVISIONS  | DATE       | AMMENDED BY |
|-----|--|------------|-------------|
| 01  | ISSUED FOR MANUFACTURE                                   | 22/05/2015 |             |
| 02  | ADD HOLES TO ROOF BEAMS (SEE DRAWING FOR DETAILS) (ONLY) | 17/02/2015 |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                      | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS  | 20/02/2013 |             |
| 05  | AS BUILT DRGS  | 28/06/2013 |             |
| REV | AMMENDMENT   |            |             |

Q-Pulse Id TMS1164

REVISIONS

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**AusFAB**  
CONSTRUCTIONS

40 Kenilworth Street,  
Warwick, Queensland, Australia 4011  
Phone: 1300 995 970  
Fax: 1300 998 983

DRAWING NOTES:

ALL WELDING TO BE IN ACCORDANCE  
WITH AS1554 PART 1.  
FOR UNTOLERANCED DIMENSIONS THE  
FOLLOWING LIMITS SHALL APPLY:  
FABRICATION ± 2.0mm  
MACHINING ± 0.25mm

SCALE

1:6 UNO

DRAWN

SB

23/01/13

CHECK

EG/NW

23/01/13

APPROVED

-

-

DESCRIPTION

PH-CI PLATES

DRAWING No.

PHCI-RC1

AS1100

THIRD ANGLE PROJECTION

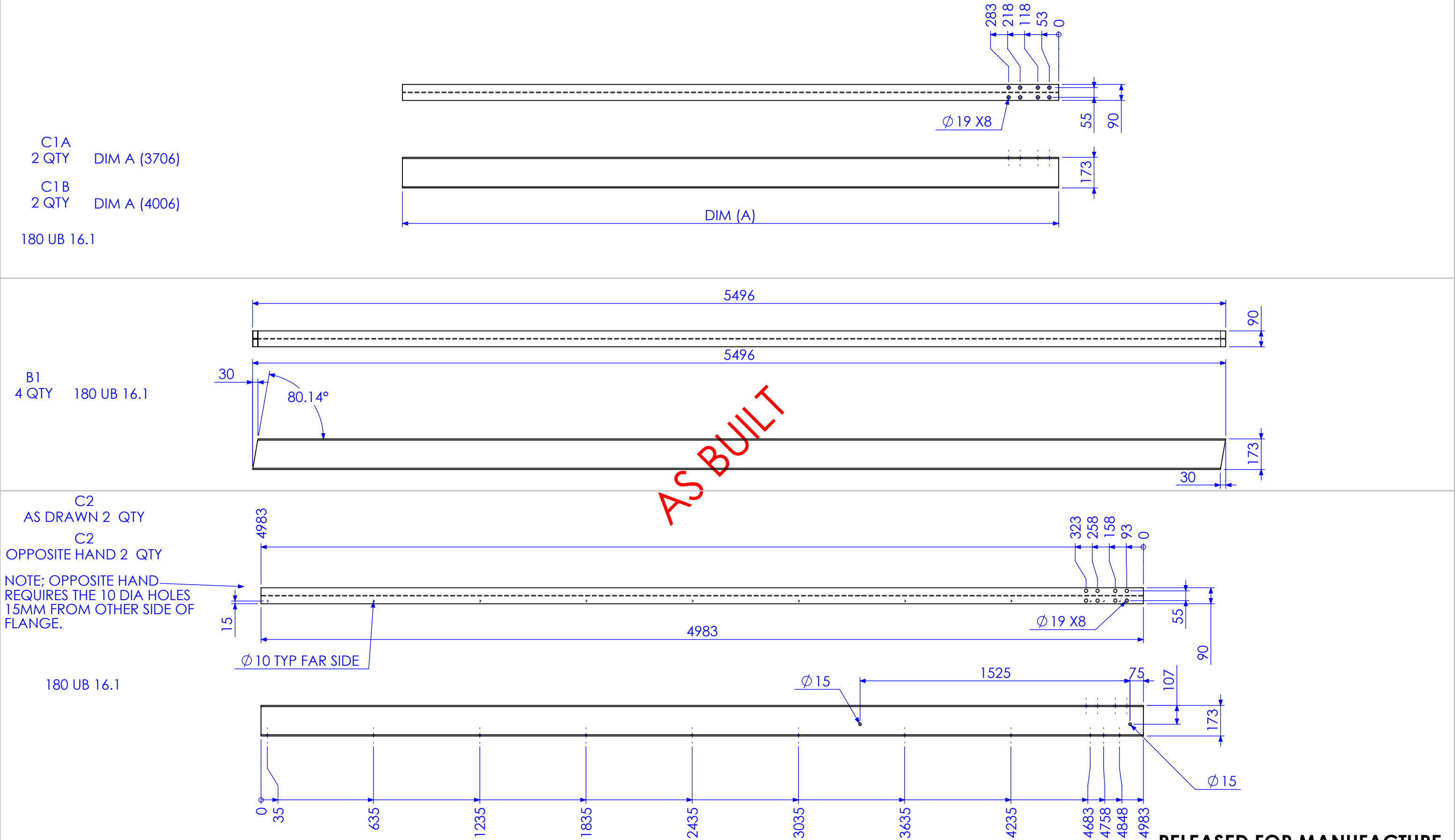
SHEET 19 of 21

REV

05

PURPOSE OF DRAWING

FABRICATION



RELEASED FOR MANUFACTURE

| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  |            |             |

| FINISH REQUIREMENTS-   | FINISH N/A FOR THIS DRAWING |
|--|-----------------------------|
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| AUSFAB CONSTRUCTIONS   |                             |
| 40 Kenilworth Street, Warwick, Queensland, Australia 4011<br>Phone: 1300 995 970<br>Fax: 1300 998 983  |                             |

| APPROX. MASS:   | DO NOT SCALE IF IN DOUBT - ASK |
|---|--------------------------------|
| kg  |                                |
| DRAWING NOTES:  |                                |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.           |                                |
| FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: |                                |
| FABRICATION ± 2.0mm   |                                |
| MACHINING ± 0.25mm  |                                |

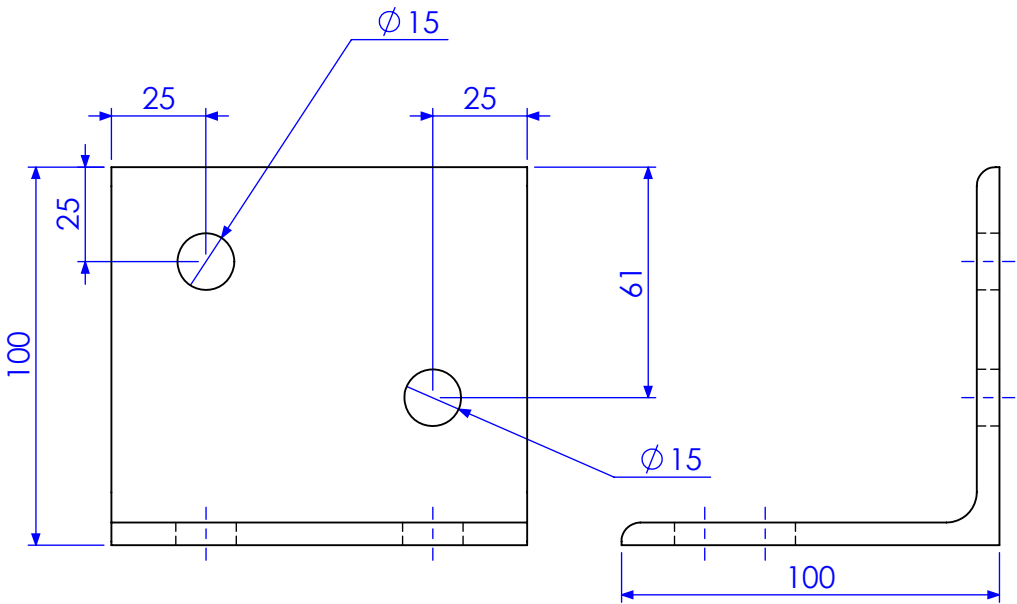
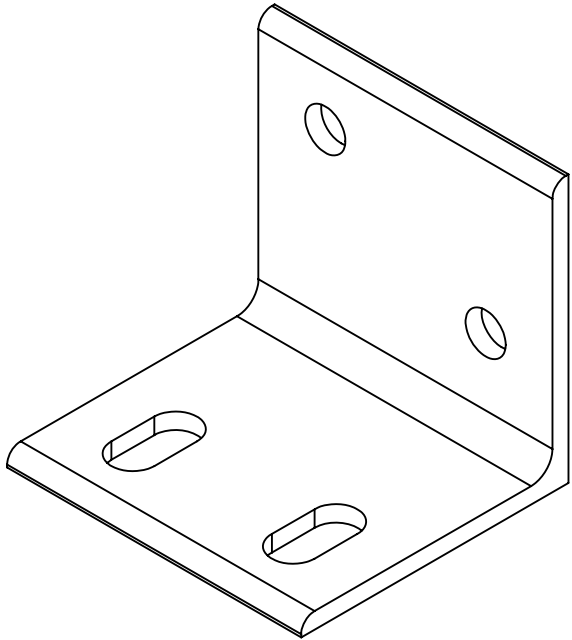
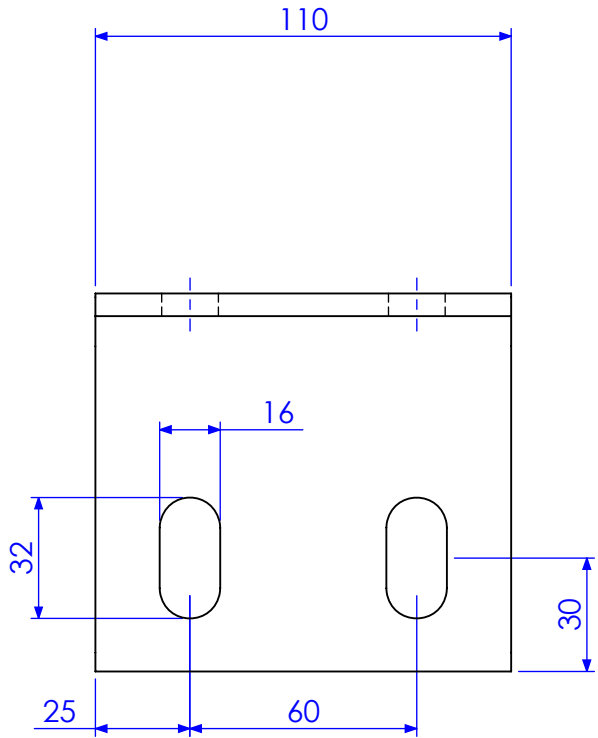
| JOB NUMBER:        | 5248           | QTY: | AS PER ABOVE |
|--------------------|----------------|------|--------------|
| DESCRIPTION        |                |      |              |
| SCALE              | 1:20 UNO       |      |              |
| DRAWN              | SB 23/01/13    |      |              |
| CHECK              | EG/NW 23/01/13 |      |              |
| APPROVED           | -              |      |              |
| DRAWING No.        | PHCI FC1       |      |              |
| PURPOSE OF DRAWING |                |      |              |
| FABRICATION        |                |      |              |



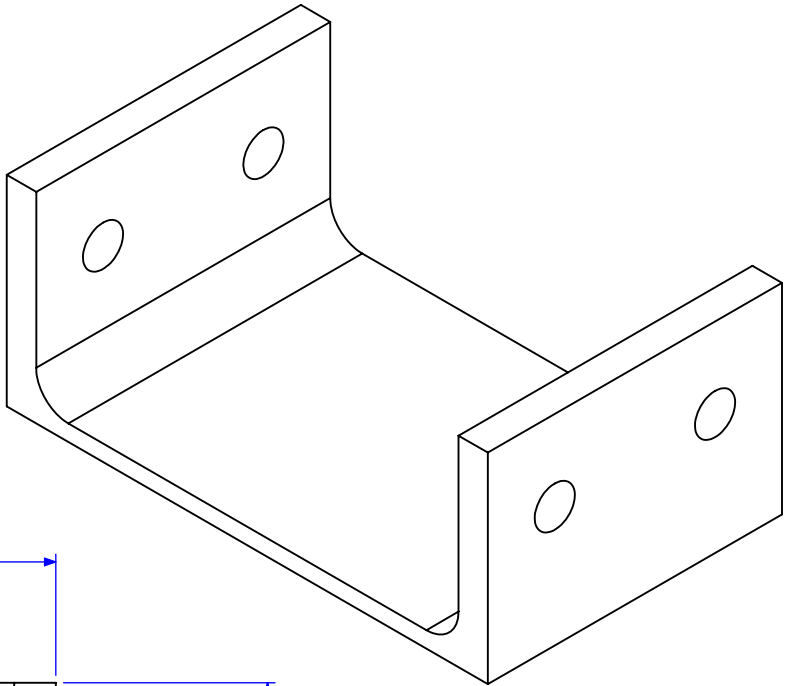
| MARK NO. | DESCRIPTION  | LENGTH |
|----------|--------------|--------|
| BPS 1    | 100x100x6 EA | 110    |

| MARK NO. | DESCRIPTION | LENGTH |
|----------|-------------|--------|
| BPS 2    | 180 PFC     | 110    |

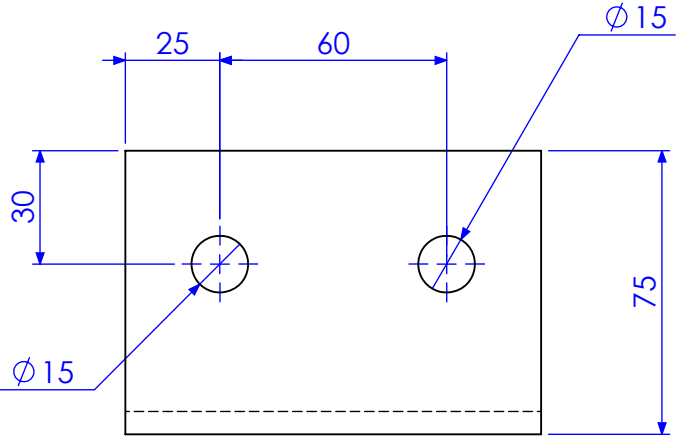
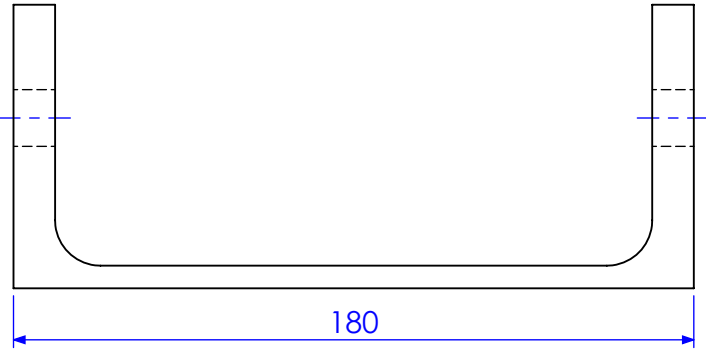
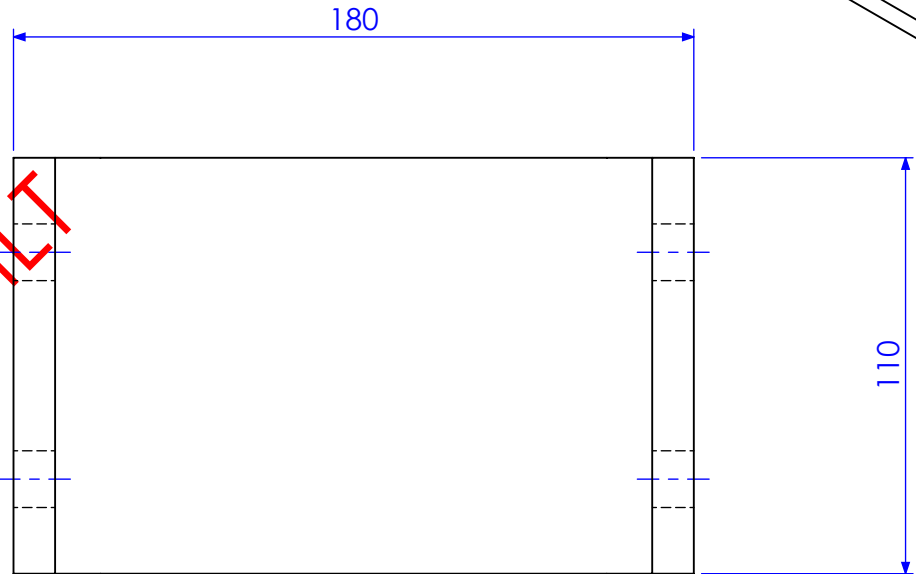
QTY 2



QTY 1



AS BUILT

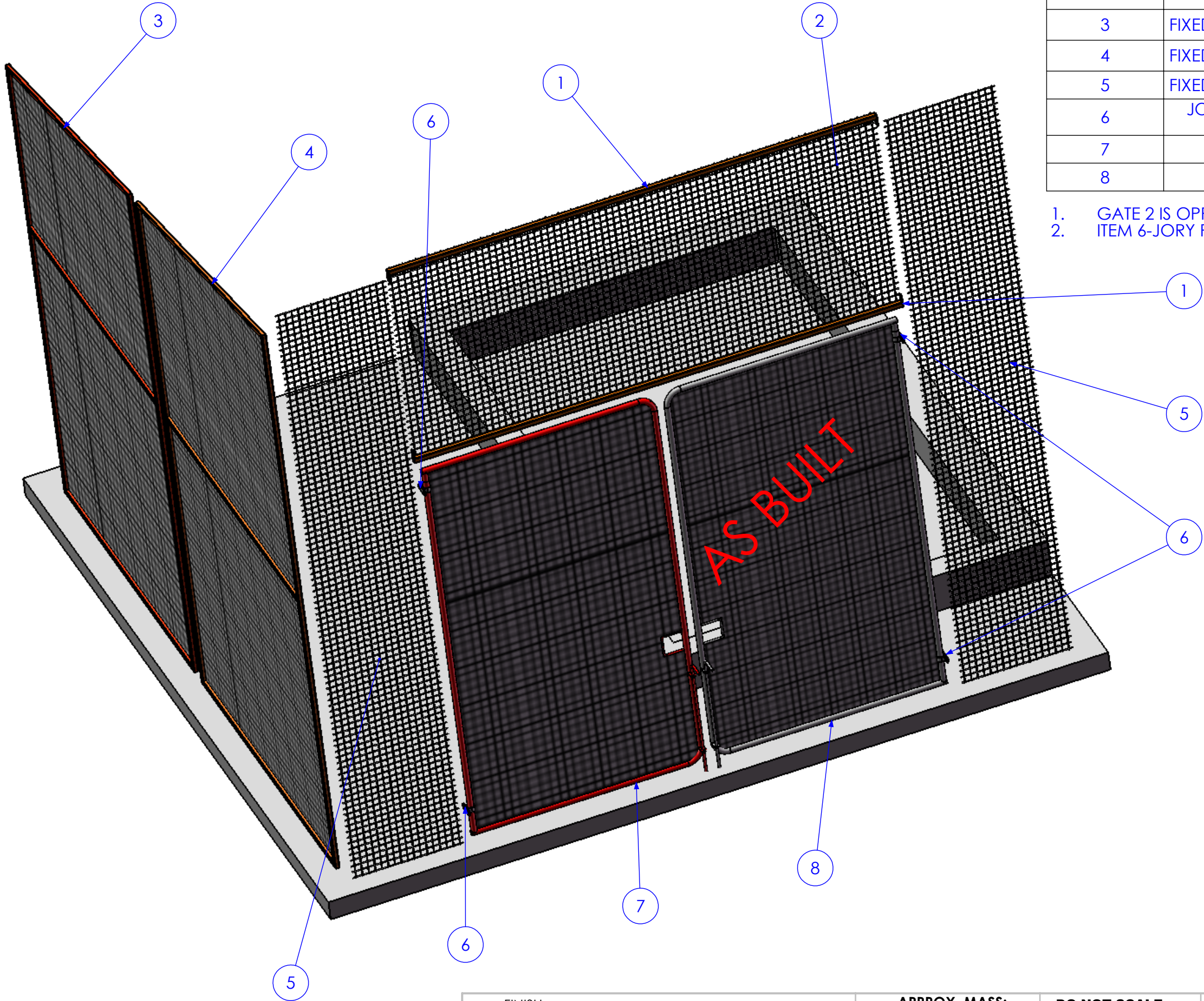


| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---|------------|-------------|
| 01  | INITIAL ISSUE   | 23/01/2013 |             |
| 02  | ADD HOLES TO FRONT COLUMNS ON BEAM LINE DRAWING (SHEET 20 ONLY) | 1/02/2013  |             |
| 03  | REDUCE PURLIN SPACING ON ROOF BEAMS                             | 4/02/2013  |             |
| 04  | UPDATE DIMENSIONS   | 20/02/2013 |             |
| 05  | AS BUILT DRGS   | 28/06/2013 |             |
| 06  | AMMENDMENT  |            |             |


|                      |  |  |  |   |  |                                |  |                       |      |                               |  |
|----------------------|--|--|--|---|--|--------------------------------|--|-----------------------|------|-------------------------------|--|
| FINISH REQUIREMENTS- |  | GALVANISED (ALLOW DRAINAGE HOLES) THESE ARE NOT SHOWN ON DRAWING   |  | APPROX. MASS: kg  |  | DO NOT SCALE IF IN DOUBT - ASK |  | JOB NUMBER:           | 5248 | QTY: AS ABOVE                 |  |
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| AUSFAB CONSTRUCTIONS |  | 40 Kenilworth Street, Warwick, Queensland, Australia 4011 Phone: 1300 995 970 Fax: 1300 998 983  |  | ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1. FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: |  | DRAWN                          |  | BUND PURLIN SUPPORT 1 |      | A3                            |  |
|                      |  |  |  | FABRICATION ± 2.0mm MACHINING ± 0.25mm  |  | CHECK                          |  | SHEET 21 of 21        |      | REV 05                        |  |
|                      |  |  |  |   |  | APPROVED                       |  | DRAWING No.           |      | BPS 1                         |  |
|                      |  |  |  |   |  |                                |  | PURPOSE OF DRAWING    |      | FABRICATION                   |  |

| ITEM NO. | DESCRIPTION                | QTY | Part No         |
|----------|----------------------------|-----|-----------------|
| 1        | MESH SUPPORT 1             | 2   | MS1             |
| 2        | FIXED MESH PANEL 1         | 1   | FMP1            |
| 3        | FIXED MESH PANEL 2         | 1   | FMP2            |
| 4        | FIXED MESH PANEL 3         | 1   | FMP3            |
| 5        | FIXED MESH PANEL 4         | 2   | FMP4            |
| 6        | JORY ASSEMBLY<br>S4/AA/BP4 | 4   | S4/AA/BP4       |
| 7        | GATE 1                     | 1   | 5248-B-A1-A3-P3 |
| 8        | GATE 2                     | 1   | 5248-B-A1-A3-P3 |

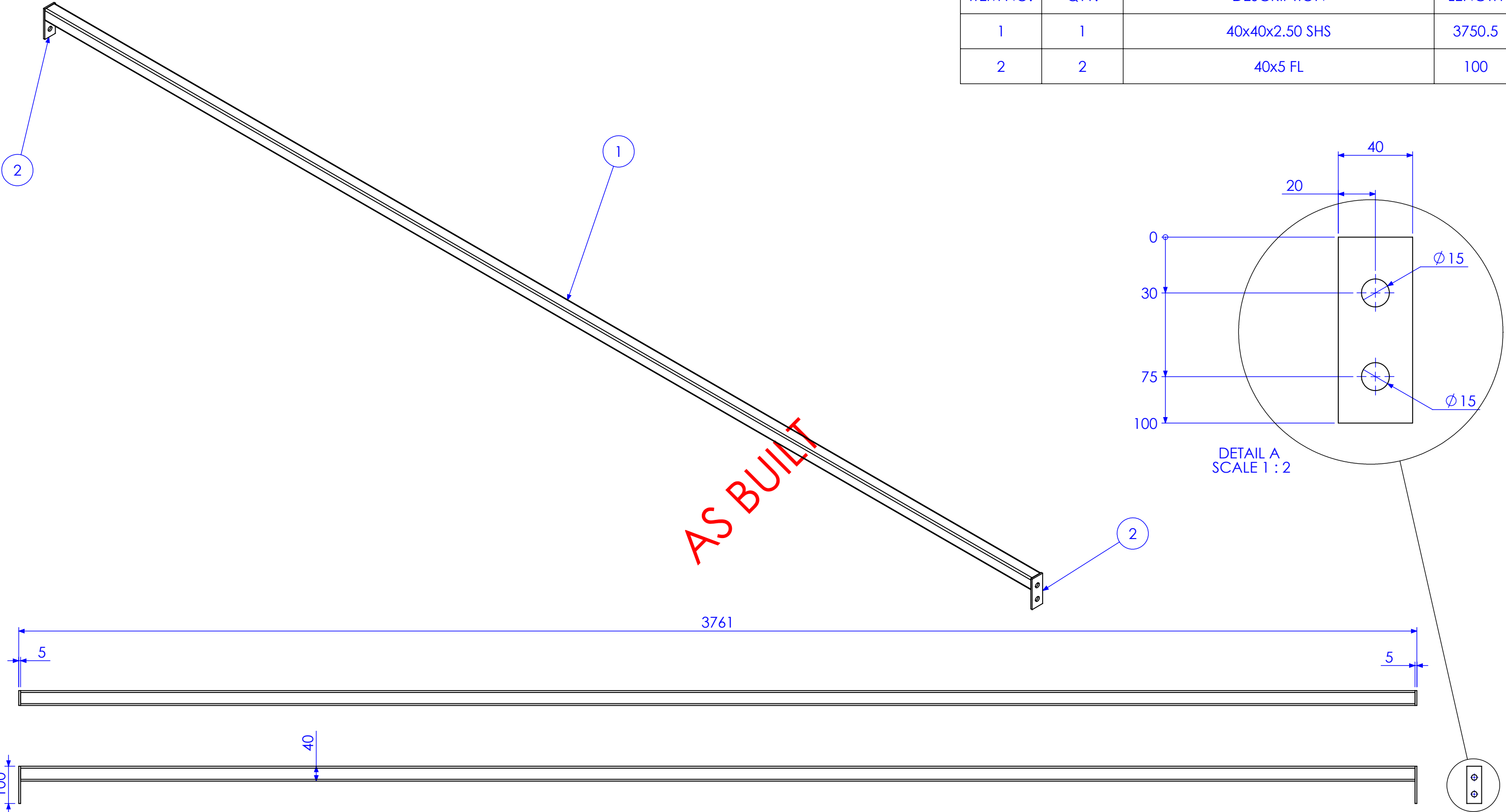
1. GATE 2 IS OPPOSITE HAND TO GATE 1
2. ITEM 6-JORY PART AS PER CATALOGUE



|                    |               |            |             |
|--------------------|---------------|------------|-------------|
| 01                 | INITIAL ISSUE | 4/02/2013  | SDB         |
| 02                 | AS BUILT      | 28/06/2013 | SDB         |
| REV                | AMMENDMENT    | DATE       | AMMENDED BY |
| Q-Pulse Id TMS1164 |               |            |             |
| REVISIONS          |               |            |             |

|  |   |   |   |  |                                   |  |
|--|---|---|---|--|-----------------------------------|--|
| FINISH REQUIREMENTS-   | GALVANISED  | APPROX. MASS:<br>kg   | DO NOT SCALE<br>IF IN DOUBT - ASK   | JOB NUMBER:                              | 5248                              | QTY:   |
| PROPRIETARY NOTICE<br>THIS DRAWING IS THE PROPERTY OF AUSFAB CONSTRUCTIONS. COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY AUSFAB CONSTRUCTIONS. THE DRAWINGS, IDEAS & INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES. | <br>40 Kenilworth Street,<br>Warwick, Queensland, Australia 4011<br>Phone: 1300 995 970<br>Fax: 1300 998 983<br>15/05/2015 | DRAWING NOTES:<br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm | SCALE<br>1:30 UNO<br>DRAWN<br>SB 4/02/13<br>CHECK<br>EG/NW 4/12/13<br>APPROVED<br>- - | DESCRIPTION<br>PH-CI GATES & MESH PANELS | PURPOSE OF DRAWING<br>FABRICATION | AS1100<br>THIRD ANGLE PROJECTION<br>SHEET 1 of 7<br>REV 02 |
|  |   |   |   | DRAWING No.                              | 5248-(PH&CI) B-A1-A3              |  |

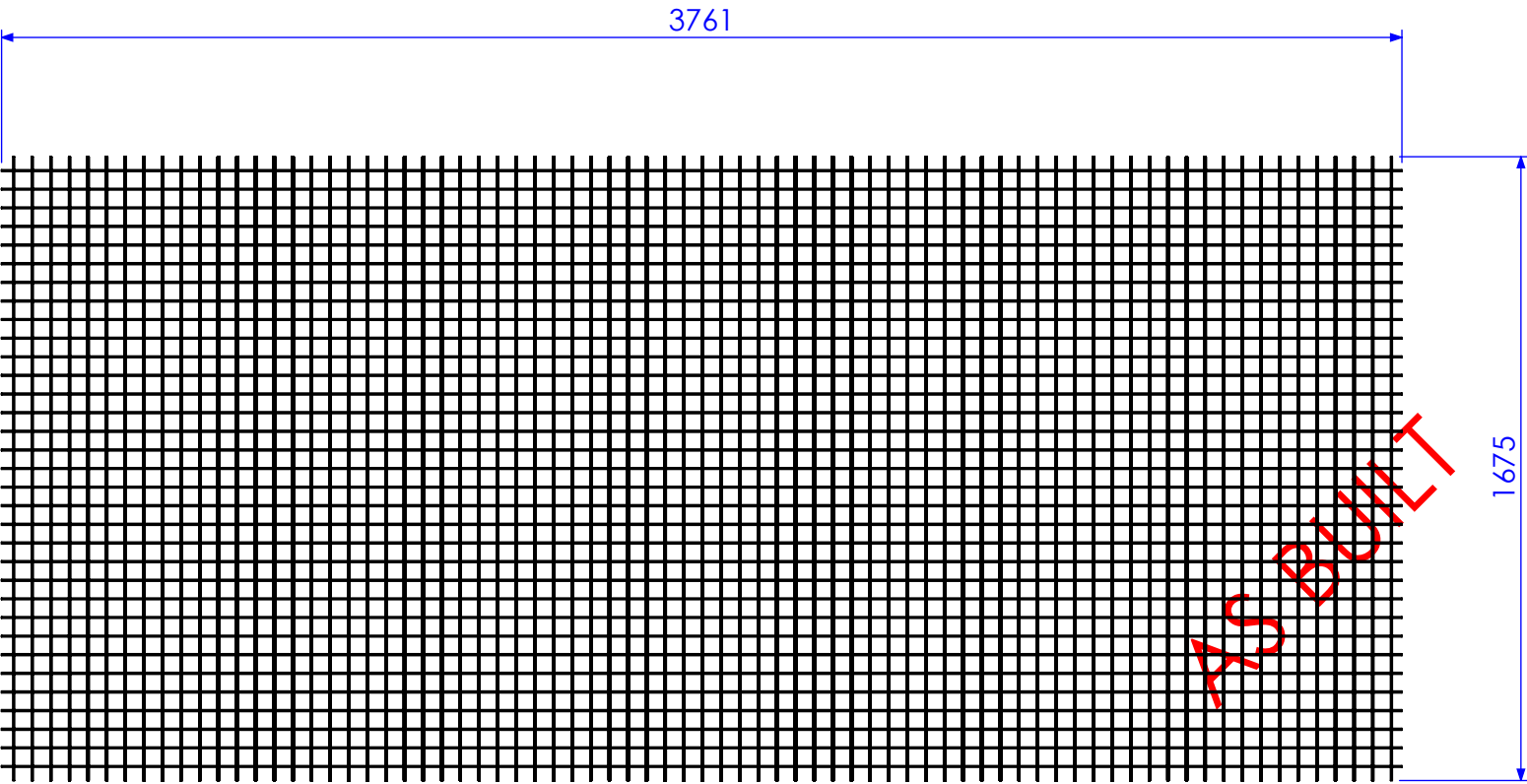
| ITEM NO. | QTY. | DESCRIPTION    | LENGTH |
|----------|------|----------------|--------|
| 1        | 1    | 40x40x2.50 SHS | 3750.5 |
| 2        | 2    | 40x5 FL        | 100    |



| REV | DESCRIPTION   | DATE       | BY          |
|-----|---------------|------------|-------------|
| 01  | INITIAL ISSUE | 4/02/2013  | SDB         |
| 02  | AS BUILT      | 28/06/2013 | SDB         |
| 03  | AMMENDMENT    | DATE       | AMMENDED BY |


|  |  |   |  |  |  |                                |  |                        |      |                    |  |
|--|--|---|--|--|--|--------------------------------|--|------------------------|------|--------------------|--|
| FINISH REQUIREMENTS-   |  | GALVANISED  |  | APPROX. MASS: kg   |  | DO NOT SCALE IF IN DOUBT - ASK |  | JOB NUMBER:            | 5248 | QTY: 2             |  |
| PROPRIETARY NOTICE   |  | AUSFAB CONSTRUCTIONS  |  | DRAWING NOTES:   |  | SCALE                          |  | DESCRIPTION            |      | AS1100             |  |
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| MESH SUPPORT 1   |  | SHEET 2 of 7  |  | REV 02   |  | DRAWING No.                    |  | MS1                    |      | PURPOSE OF DRAWING |  |
| FABRICATION  |  | Page 81 of 95   |  |  |  |                                |  |                        |      |                    |  |



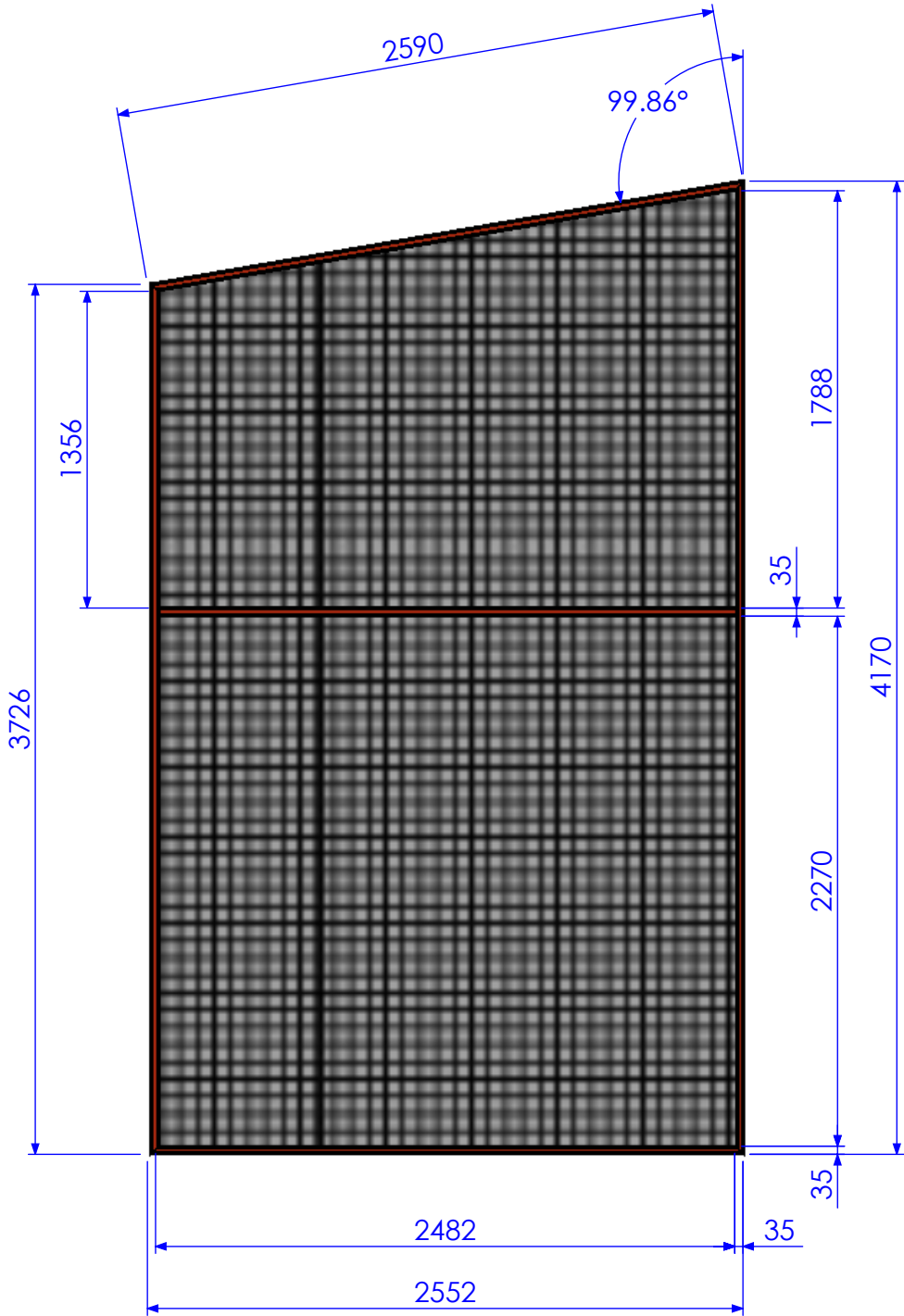


50X50X3 GALVANISED MESH  
REQUIREMENT TO JOIN AT 3000 MARK

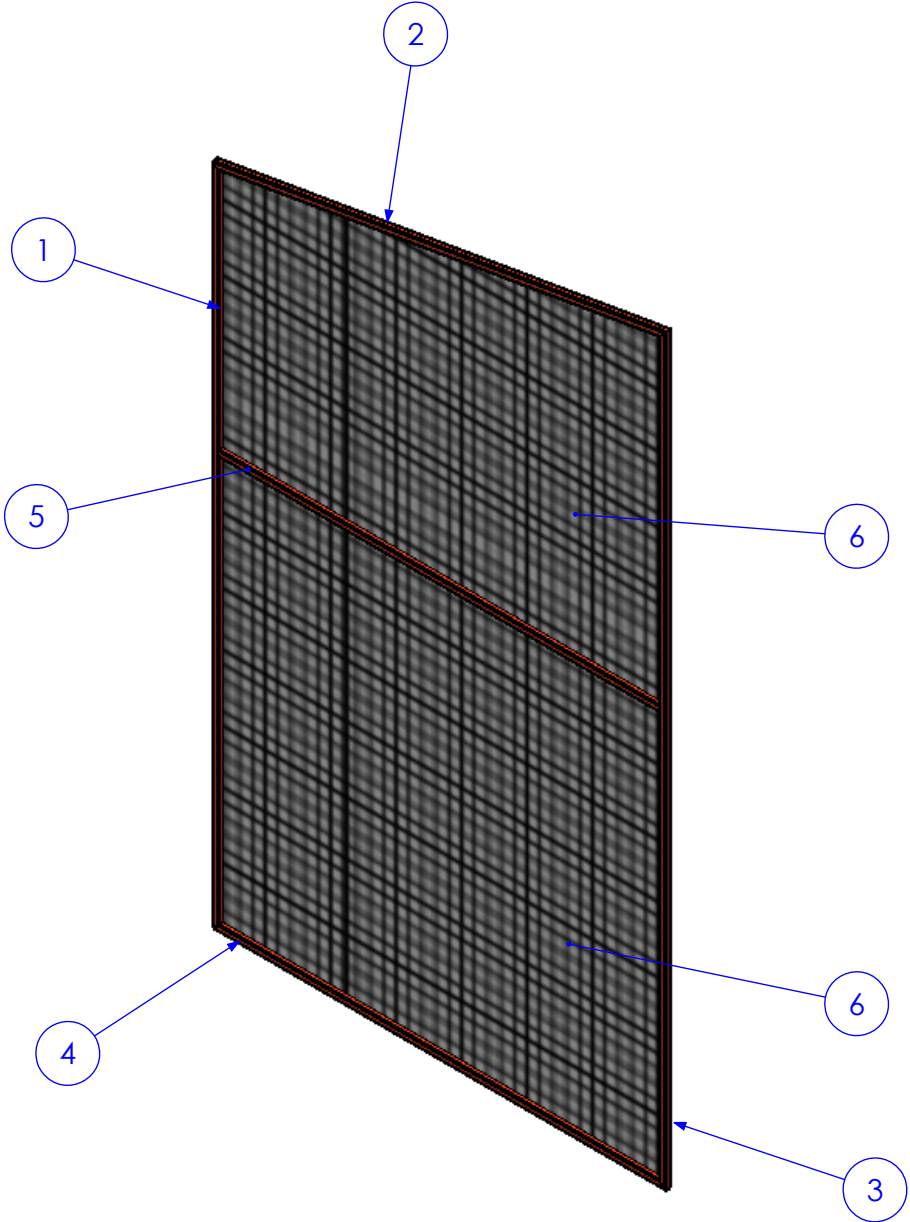
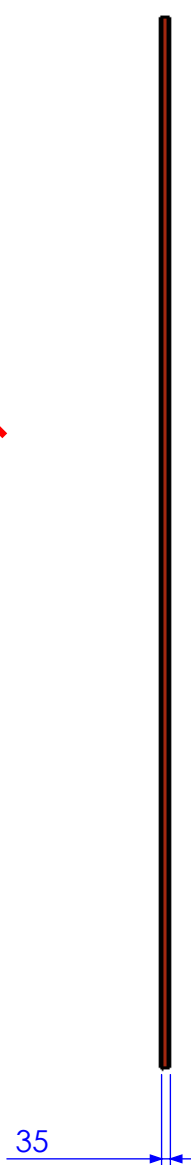
|                    |               |            |             |
|--------------------|---------------|------------|-------------|
| 01                 | INITIAL ISSUE | 4/02/2013  | SDB         |
| 02                 | AS BUILT      | 28/06/2013 | SDB         |
| REV                | AMMENDMENT    | DATE       | AMMENDED BY |
| Q-Pulse Id TMS1164 |               |            |             |
| REVISIONS          |               |            |             |

|   |  |   |  |  |  |                                   |  |             |  |  |  |        |  |
|---|--|---|--|--|--|-----------------------------------|--|-------------|--|--|--|--------|--|
| FINISH REQUIREMENTS-  |  | GALVANISED  |  | APPROX. MASS:<br>kg  |  | DO NOT SCALE<br>IF IN DOUBT - ASK |  | JOB NUMBER: |  | 5248   |  | QTY: 1 |  |
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| DRAWN   |  | SB  |  | 4/02/13  |  |                                   |  |             |  |  |  |        |  |
| CHECK   |  | EG/NW   |  | 4/12/13  |  |                                   |  |             |  |  |  |        |  |
| APPROVED  |  | -   |  | -  |  |                                   |  |             |  |  |  |        |  |
|   |  |   |  |  |  | DRAWING No.                       |  | FMP1        |  | AS1100<br>THIRD ANGLE PROJECTION<br>SHEET 3 of 7<br>REV<br>PURPOSE OF DRAWING<br>FABRICATION |  |        |  |
|   |  |   |  |  |  |                                   |  |             |  | A3<br><br><br>02   |  |        |  |

| ITEM NO. | QTY. | DESCRIPTION             | LENGTH        |
|----------|------|-------------------------|---------------|
| 1        | 1    | 35x35x3 SHS             | 3726.19       |
| 2        | 1    | 35x35x3 SHS             | 2589.73       |
| 3        | 1    | 35x35x3 SHS             | 4169.55       |
| 4        | 1    | 35x35x3 SHS             | 2551.5        |
| 5        | 1    | 35x35x3 SHS             | 2481.5        |
| 6        | 1    | 50X50X3 GALVANISED MESH | SEE ELEVATION |




AS BUILT



|     |               |            |             |
|-----|---------------|------------|-------------|
| 01  | INITIAL ISSUE | 4/02/2013  | SDB         |
| 02  | AS BUILT      | 28/06/2013 | SDB         |
| REV | AMMENDMENT    | DATE       | AMMENDED BY |

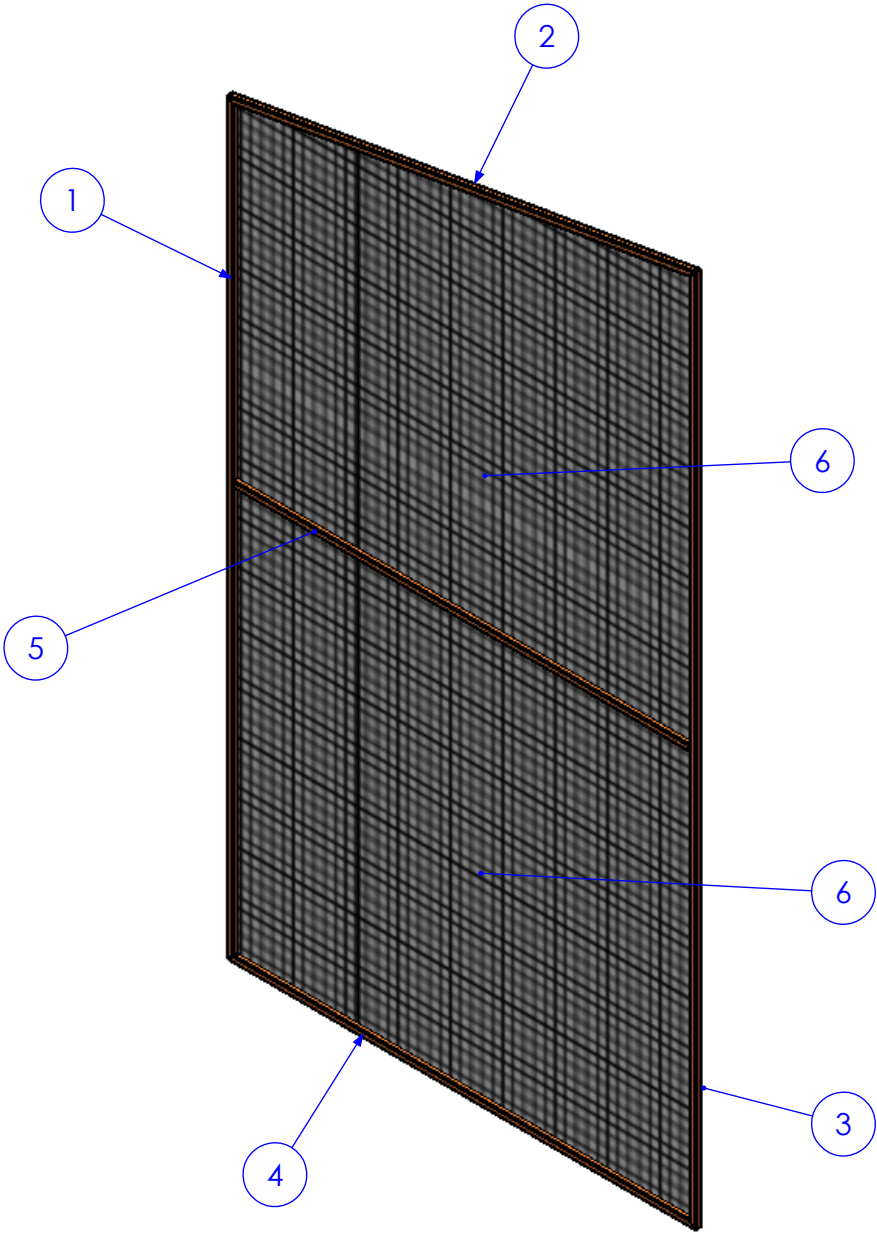
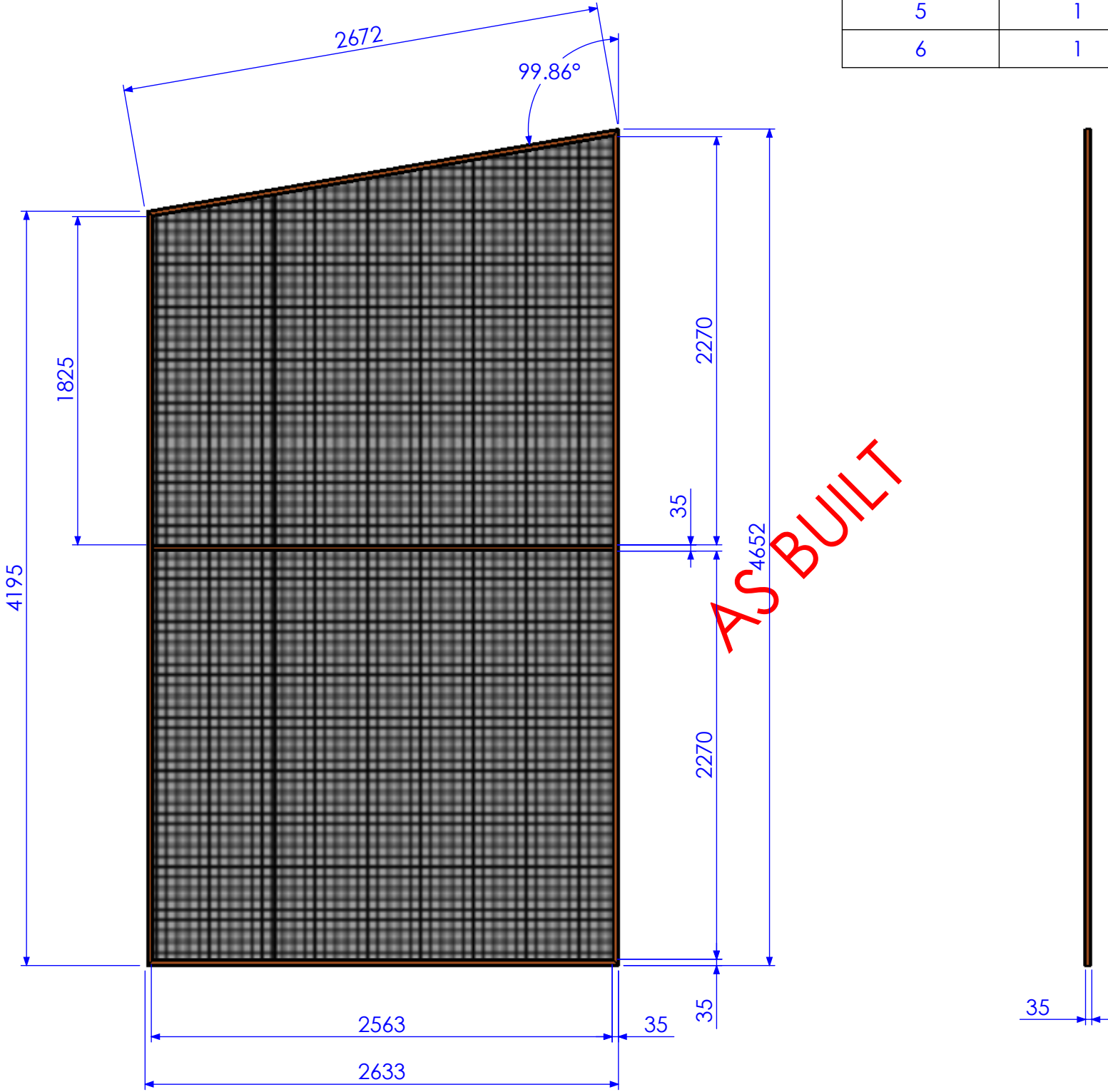
Q-Pulse Id TMS1164

REVISIONS

|   |  |   |  |   |  |                                |       |             |             |    |  |  |               |  |                                  |  |    |  |
|---|--|---|--|---|--|--------------------------------|-------|-------------|-------------|----|--|--|---------------|--|----------------------------------|--|----|--|
| FINISH REQUIREMENTS-  |  | GALVANISED  |  | APPROX. MASS: kg  |  | DO NOT SCALE IF IN DOUBT - ASK |       |             | JOB NUMBER: |    | 5248   |  | QTY: 1        |  |                                  |  |    |  |
| <div>PROPRIETARY NOTICE</div> <div>THIS DRAWING IS THE PROPERTY OF AUSFAB CONSTRUCTIONS. COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY AUSFAB CONSTRUCTIONS. THE DRAWINGS, IDEAS &amp; INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES.</div> |  | <div> <b>AUSFAB</b> CONSTRUCTIONS</div> <div>40 Kenilworth Street,<br/>Warwick, Queensland, Australia 4011<br/>Phone: 1300 995 970<br/>Fax: 1300 998 983</div> <div>15/05/2015</div> |  | <div>DRAWING NOTES:</div> <div>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br/>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br/>FABRICATION ± 2.0mm<br/>MACHINING ± 0.25mm</div> |  |                                | SCALE |             | 1:30 UNO    |    | DESCRIPTION<br><br><b>FIXED MESH PANEL 2</b> |  |               |  | AS1100<br>THIRD ANGLE PROJECTION |  | A3 |  |
| DRAWN   |  | SB  |  | 4/02/13   |  | SHEET 4 of 7                   |       | REV         |             | 02 |  |  |               |  |                                  |  |    |  |
| CHECK   |  | EG/NW   |  | 4/12/13   |  | PURPOSE OF DRAWING             |       | FABRICATION |             |    |  |  |               |  |                                  |  |    |  |
| APPROVED  |  | -   |  | -   |  | DRAWING No.                    |       | FMP2        |             |    |  |  |               |  |                                  |  |    |  |
|   |  |   |  |   |  |                                |       |             |             |    |  |  | Page 83 of 95 |  |                                  |  |    |  |




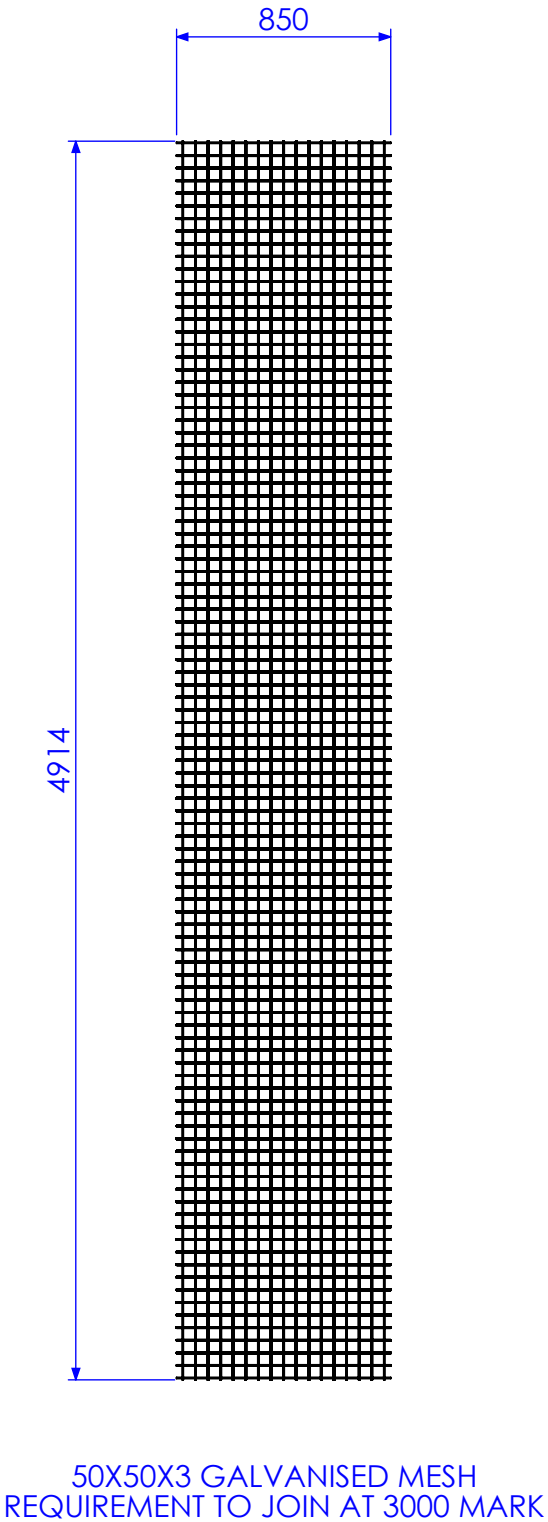
| ITEM NO. | QTY. | DESCRIPTION             | LENGTH        |
|----------|------|-------------------------|---------------|
| 1        | 1    | 35x35x3 SHS             | 4194.74       |
| 2        | 1    | 35x35x3 SHS             | 2671.95       |
| 3        | 1    | 35x35x3 SHS             | 4652.17       |
| 4        | 1    | 35x35x3 SHS             | 2632.5        |
| 5        | 1    | 35x35x3 SHS             | 2562.5        |
| 6        | 1    | 50X50X3 GALVANISED MESH | SEE ELEVATION |



|           |               |            |             |
|-----------|---------------|------------|-------------|
| 01        | INITIAL ISSUE | 4/02/2013  | SDB         |
| 02        | AS BUILT      | 28/06/2013 | SDB         |
| REV       | AMMENDMENT    | DATE       | AMMENDED BY |
| REVISIONS |               |            |             |

Q-Pulse Id TMS1164

|   |  |   |  |   |  |  |  |   |  |      |  |  |  |
|---|--|---|--|---|--|--|--|---|--|------|--|--|--|
| FINISH REQUIREMENTS-  |  | GALVANISED  |  | APPROX. MASS: kg  |  | DO NOT SCALE IF IN DOUBT - ASK   |  | JOB NUMBER:   |  | 5248 |  | QTY: 1   |  |
| <div>PROPRIETARY NOTICE</div> <div>THIS DRAWING IS THE PROPERTY OF AUSFAB CONSTRUCTIONS. COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY AUSFAB CONSTRUCTIONS. THE DRAWINGS, IDEAS &amp; INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES.</div> |  | <div> <b>AUSFAB</b> CONSTRUCTIONS</div> <div>40 Kenilworth Street,<br/>Warwick, Queensland, Australia 4011<br/>Phone: 1300 995 970<br/>Fax: 1300 998 983<br/>Date 15/05/2015</div> |  | <div>DRAWING NOTES:</div> <div>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br/>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br/>FABRICATION ± 2.0mm<br/>MACHINING ± 0.25mm</div> |  | <div>SCALE</div> <div>1:30 UNO</div> <div>DRAWN</div> <div>SB 4/02/13</div> <div>CHECK</div> <div>EG/NW 4/12/13</div> <div>APPROVED</div> <div>- -</div> |  | <div>DESCRIPTION</div> <div>FIXED MESH PANEL 3</div> <div>DRAWING No.</div> <div>FMP3</div> |  |      |  | <div>AS1100</div> <div>THIRD ANGLE PROJECTION</div> <div>SHEET 5 of 7</div> <div>REV 02</div> <div>PURPOSE OF DRAWING</div> <div>FABRICATION</div> |  |
| <div>Page 84 of 95</div>  |  |   |  |   |  |  |  |   |  |      |  |  |  |

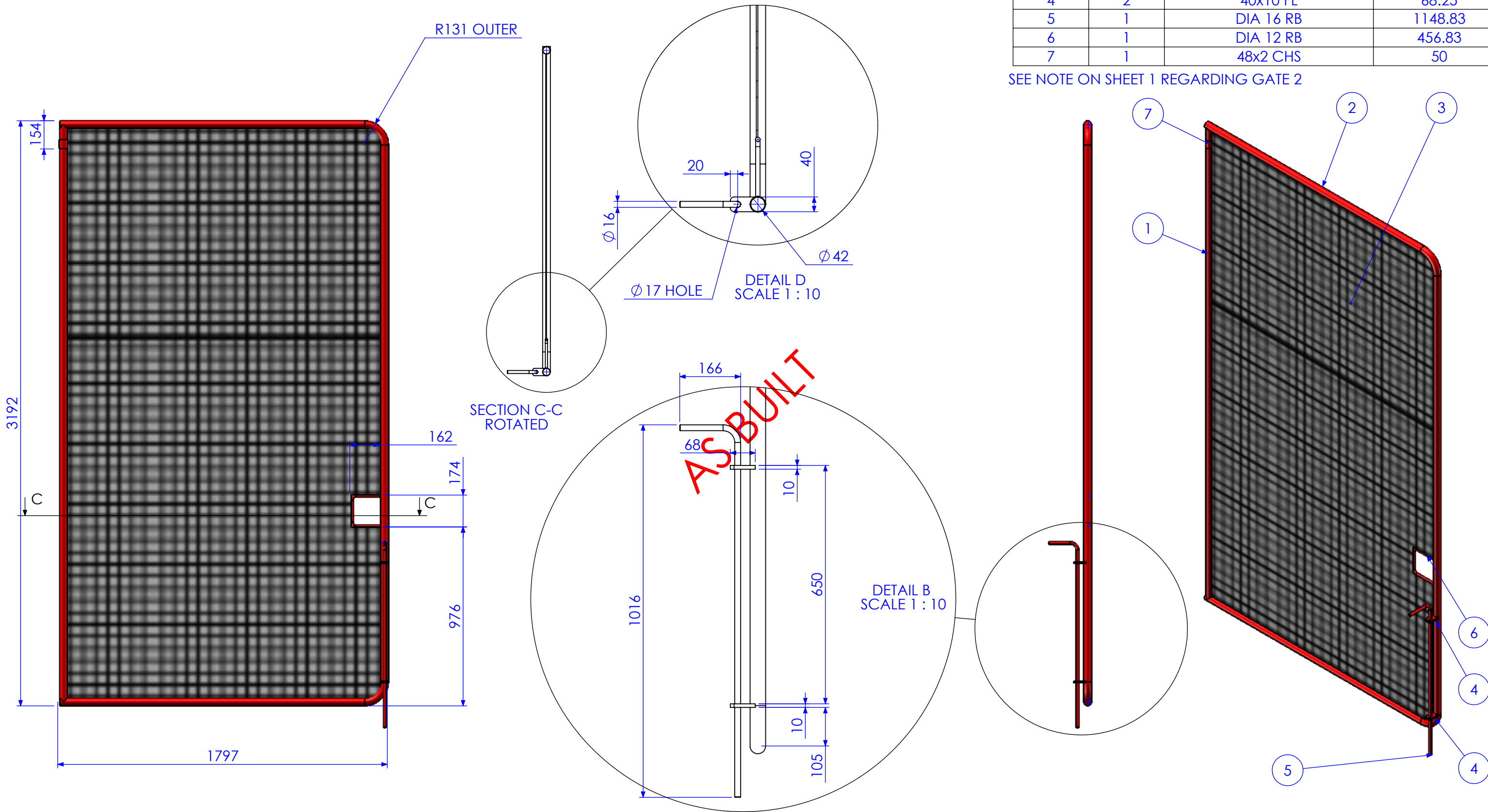


|                    |               |            |             |
|--------------------|---------------|------------|-------------|
| 01                 | INITIAL ISSUE | 4/02/2013  | SDB         |
| 02                 | AS BUILT      | 28/06/2013 | SDB         |
| REV                | AMMENDMENT    | DATE       | AMMENDED BY |
| Q-Pulse Id TMS1164 |               |            |             |
| REVISIONS          |               |            |             |

|   |  |  |  |   |  |                                      |  |                     |  |  |  |   |  |               |  |
|---|--|--|--|---|--|--------------------------------------|--|---------------------|--|--|--|---|--|---------------|--|
| FINISH REQUIREMENTS-  |  | GALVANISED   |  | APPROX. MASS:<br>kg   |  | DO NOT SCALE<br>IF IN DOUBT - ASK    |  | JOB NUMBER:         |  | 5248   |  | QTY: 2  |  |               |  |
| <div>PROPRIETARY NOTICE</div> <div>THIS DRAWING IS THE PROPERTY OF AUSFAB CONSTRUCTIONS. COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY AUSFAB CONSTRUCTIONS. THE DRAWINGS, IDEAS &amp; INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES.</div> |  | <div><div><div><div></div></div><div>AUSFAB</div><div>CONSTRUCTIONS</div></div><div>40 Kenilworth Street,<br/>Warwick, Queensland, Australia 4011<br/>Phone: 1300 995 970<br/>Fax: 1300 998 983</div><div>15/05/2015</div></div> |  | <div>DRAWING NOTES:</div> <div>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br/>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br/>FABRICATION ± 2.0mm<br/>MACHINING ± 0.25mm</div> |  | <div>SCALE</div> <div>1:30 UNO</div> |  | <div>1:30 UNO</div> |  | <div>DESCRIPTION</div> <div>FIXED MESH PANEL 4</div> |  | <div>AS1100</div> <div>THIRD ANGLE PROJECTION</div> |  | <div>A3</div> |  |
| <div>DRAWING No.</div> <div>FMP4</div>  |  | <div>DRAWN</div> <div>SB</div> <div>4/02/13</div>  |  | <div>SHEET 6 of 7</div>   |  | <div>REV</div> <div>02</div>         |  |                     |  |  |  |   |  |               |  |
|   |  | <div>CHECK</div> <div>EG/NW</div> <div>4/12/13</div>   |  | <div>PURPOSE OF DRAWING</div> <div>FABRICATION</div>  |  |                                      |  |                     |  |  |  |   |  |               |  |
|   |  | <div>APPROVED</div> <div>-</div> <div>-</div>  |  | <div>Page 85 of 95</div>  |  |                                      |  |                     |  |  |  |   |  |               |  |

| ITEM NO. | QTY. | DESCRIPTION             | LENGTH        |
|----------|------|-------------------------|---------------|
| 1        | 1    | 42x2 CHS                | 3150          |
| 2        | 1    | 42x2 CHS                | 6607.98       |
| 3        | 1    | 50X50X3 GALVANISED MESH | SEE ELEVATION |
| 4        | 2    | 40x10 FL                | 68.25         |
| 5        | 1    | DIA 16 RB               | 1148.83       |
| 6        | 1    | DIA 12 RB               | 456.83        |
| 7        | 1    | 48x2 CHS                | 50            |


SEE NOTE ON SHEET 1 REGARDING GATE 2



| REV | DESCRIPTION   | DATE       | AMMENDED BY |
|-----|---------------|------------|-------------|
| 01  | INITIAL ISSUE | 4/02/2013  | SDB         |
| 02  | AS BUILT      | 28/06/2013 | SDB         |
| 03  | AMMENDMENT    | DATE       | AMMENDED BY |

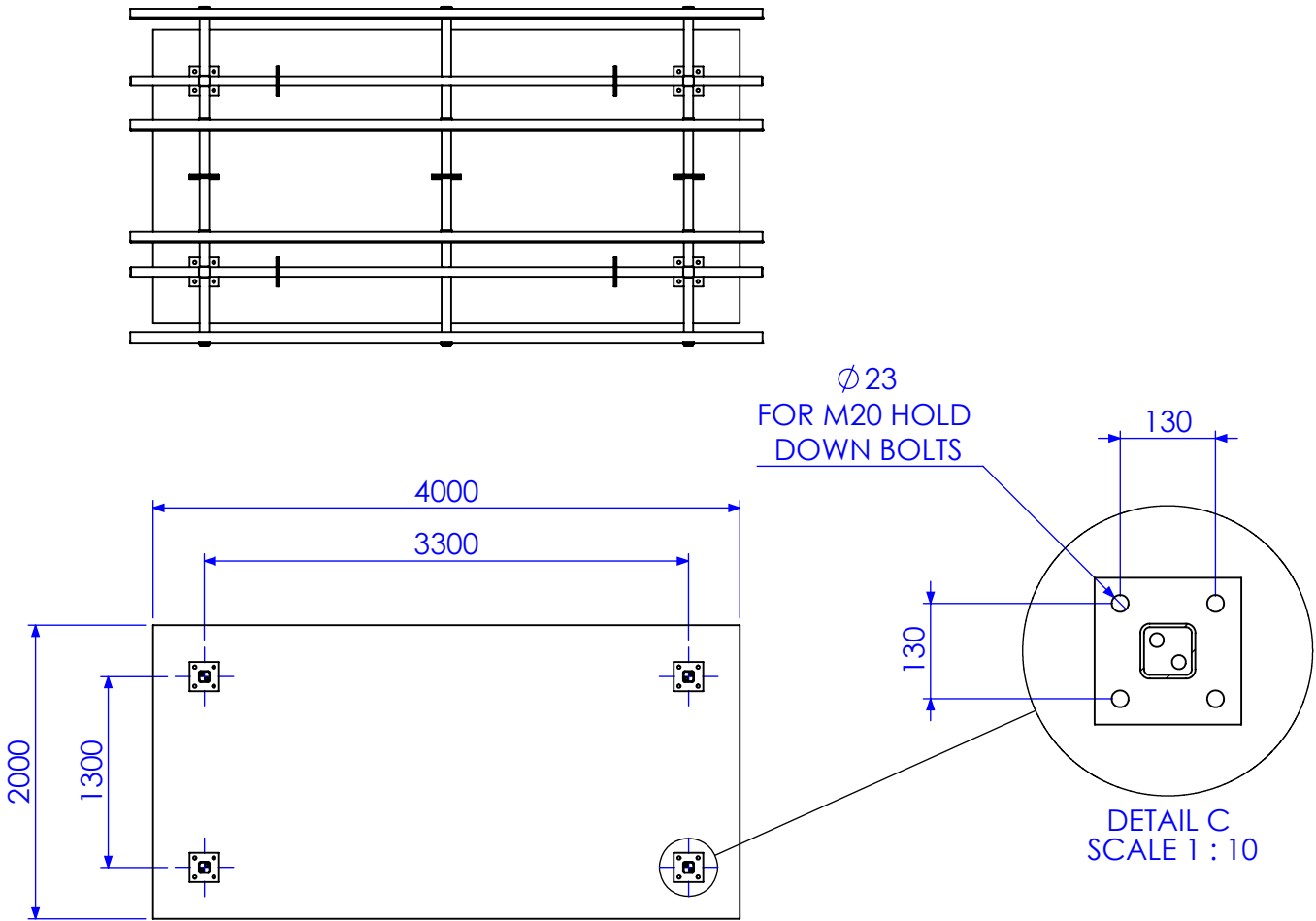
Q-Pulse Id TMS1164

REVISIONS

|   |  |  |  |   |  |                                   |  |               |  |                 |  |                        |  |    |             |    |
|---|--|--|--|---|--|-----------------------------------|--|---------------|--|-----------------|--|------------------------|--|----|-------------|----|
| FINISH REQUIREMENTS-  |  | GALVANISED   |  | APPROX. MASS:<br>kg   |  | DO NOT SCALE<br>IF IN DOUBT - ASK |  | JOB NUMBER:   |  | 5248            |  | QTY: 1                 |  |    |             |    |
| <div>PROPRIETARY NOTICE</div> <div>THIS DRAWING IS THE PROPERTY OF AUSFAB CONSTRUCTIONS. COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY AUSFAB CONSTRUCTIONS. THE DRAWINGS, IDEAS &amp; INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES.</div> |  | <div></div> <div>40 Kenilworth Street,<br/>Warwick, Queensland, Australia 4011<br/>Phone: 1300 995 970<br/>Fax: 1300 998 983<br/>15/05/2015</div> |  | <div>DRAWING NOTES:</div> <div>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br/>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br/>FABRICATION ± 2.0mm<br/>MACHINING ± 0.25mm</div> |  | SCALE                             |  | 1:20 UNO      |  | DESCRIPTION     |  | AS1100                 |  | A3 |             |    |
|   |  |  |  |   |  | DRAWN                             |  | SB 4/02/13    |  |                 |  | THIRD ANGLE PROJECTION |  |    |             |    |
|   |  |  |  |   |  | CHECK                             |  | EG/NW 4/12/13 |  |                 |  | SHEET 7 of 7           |  |    | REV         | 02 |
|   |  |  |  |   |  | APPROVED                          |  | - -           |  |                 |  | PURPOSE OF DRAWING     |  |    | FABRICATION |    |
|   |  |  |  |   |  |                                   |  | DRAWING No.   |  | 5248-B-A1-A3-P3 |  | Page 86 of 95          |  |    |             |    |

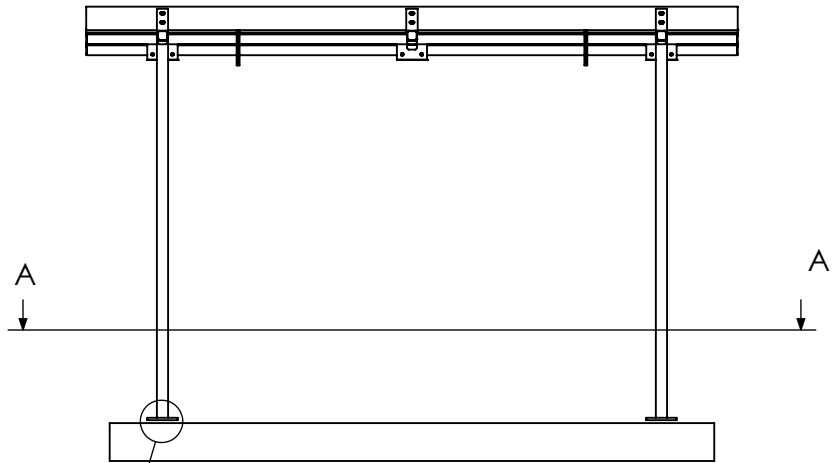


| ITEM NO. | DESCRIPTION      | QTY | Part No       |
|----------|------------------|-----|---------------|
| 1        | CORNER SECTION A | 1   | 5248-D-A1-P1A |
| 2        | CORNER SECTION B | 1   | 5248-D-A1-P1B |
| 3        | CORNER SECTION C | 1   | 5248-D-A1-P1C |
| 4        | CORNER SECTION D | 1   | 5248-D-A1-P1D |
| 5        | HEAD BEAM A      | 1   | 5248-D-A1-P2A |
| 6        | HEAD BEAM B      | 1   | 5248-D-A1-P2B |
| 7        | PURLIN A         | 4   | 5248-C-A1-P4  |

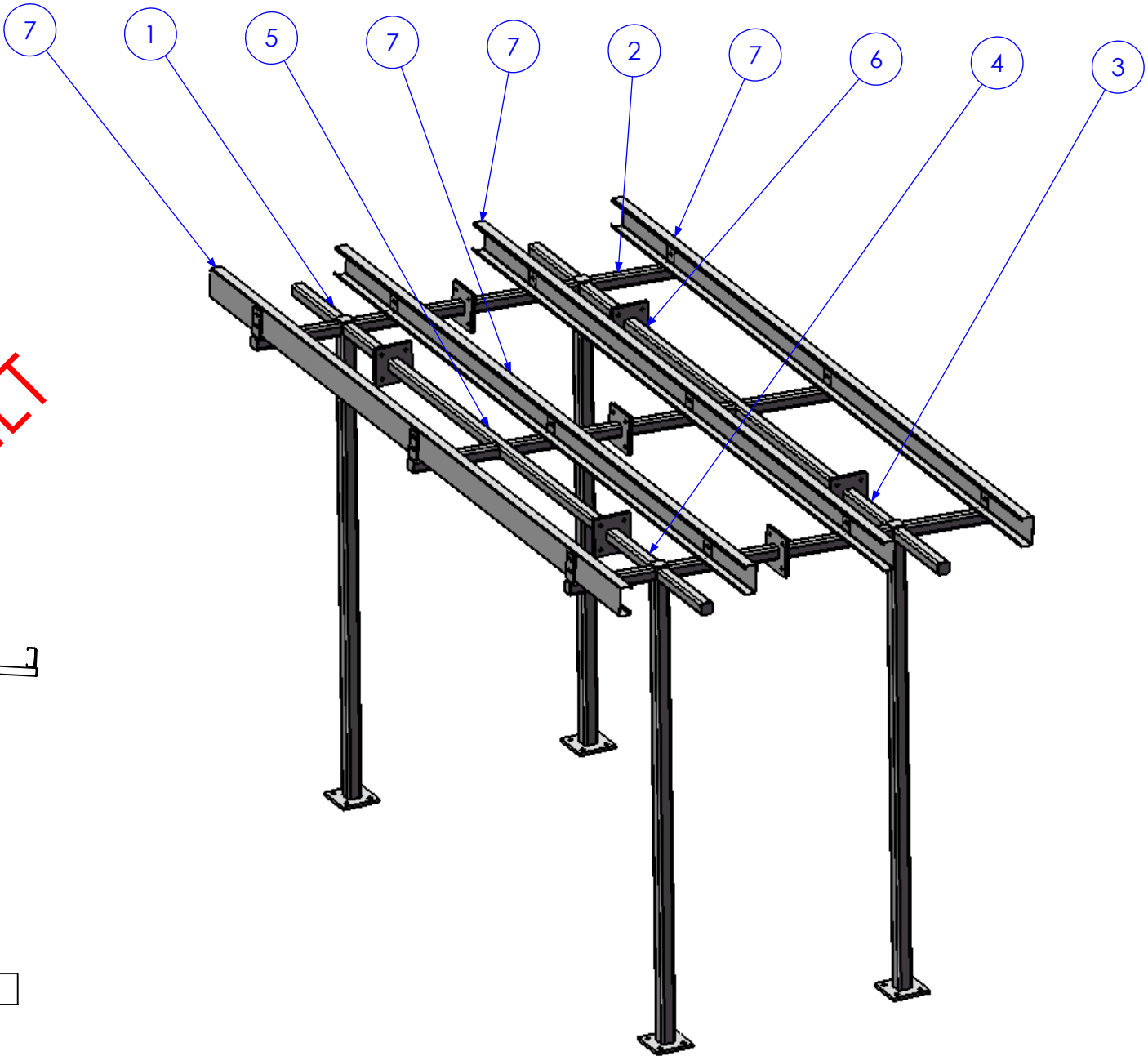


SECTION A-A

AS BUILT

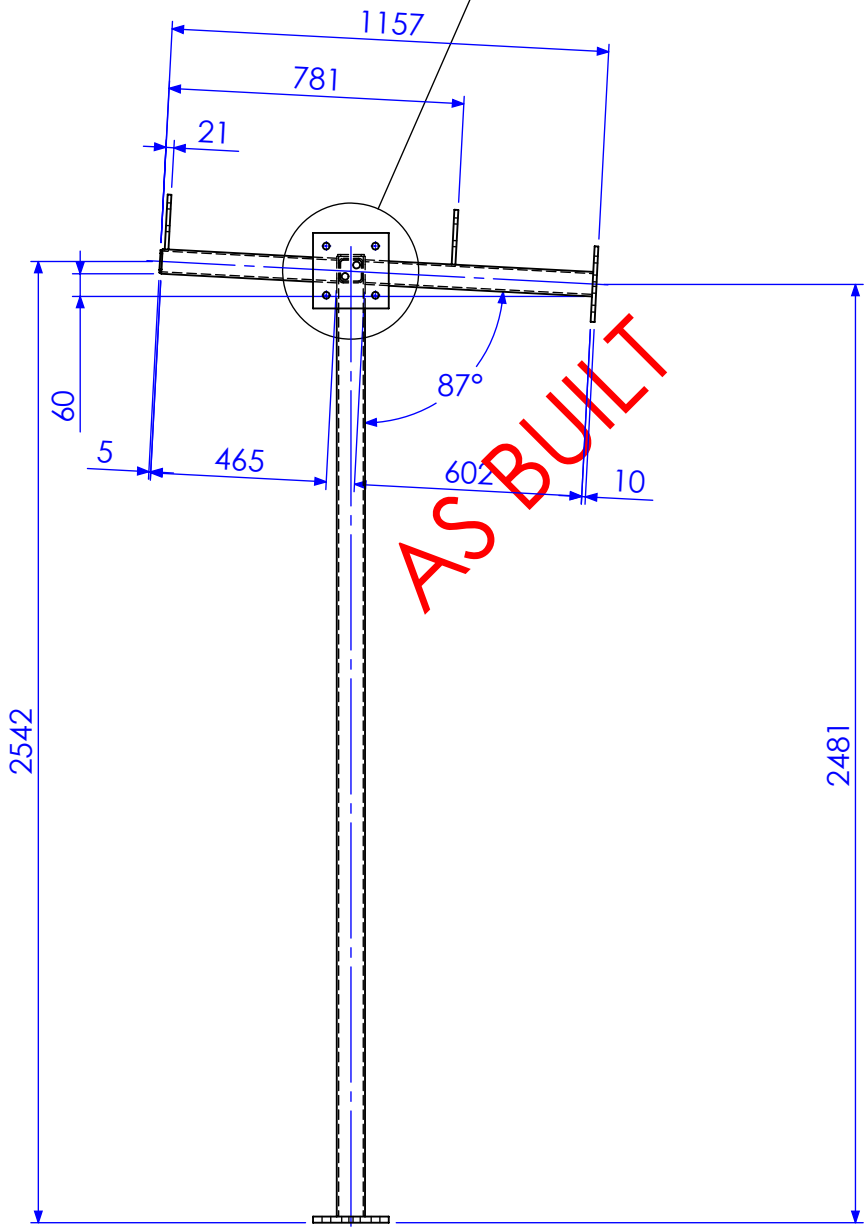
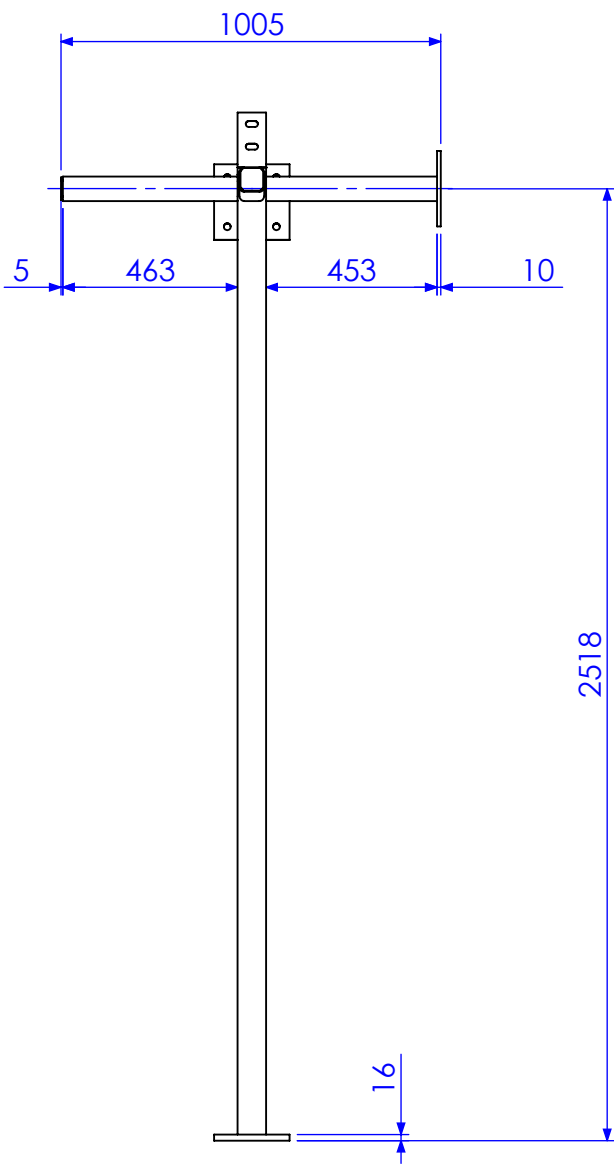
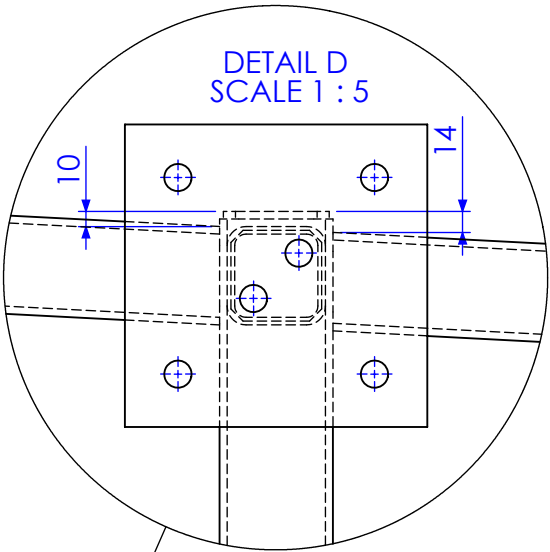
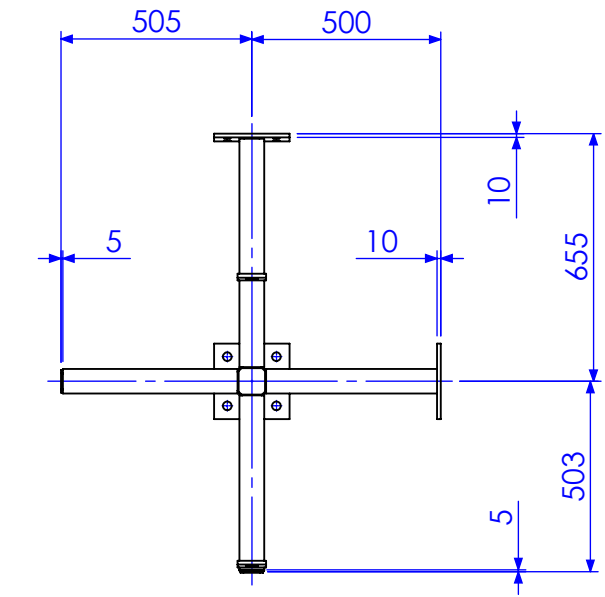


DETAIL B  
SCALE 1 : 10



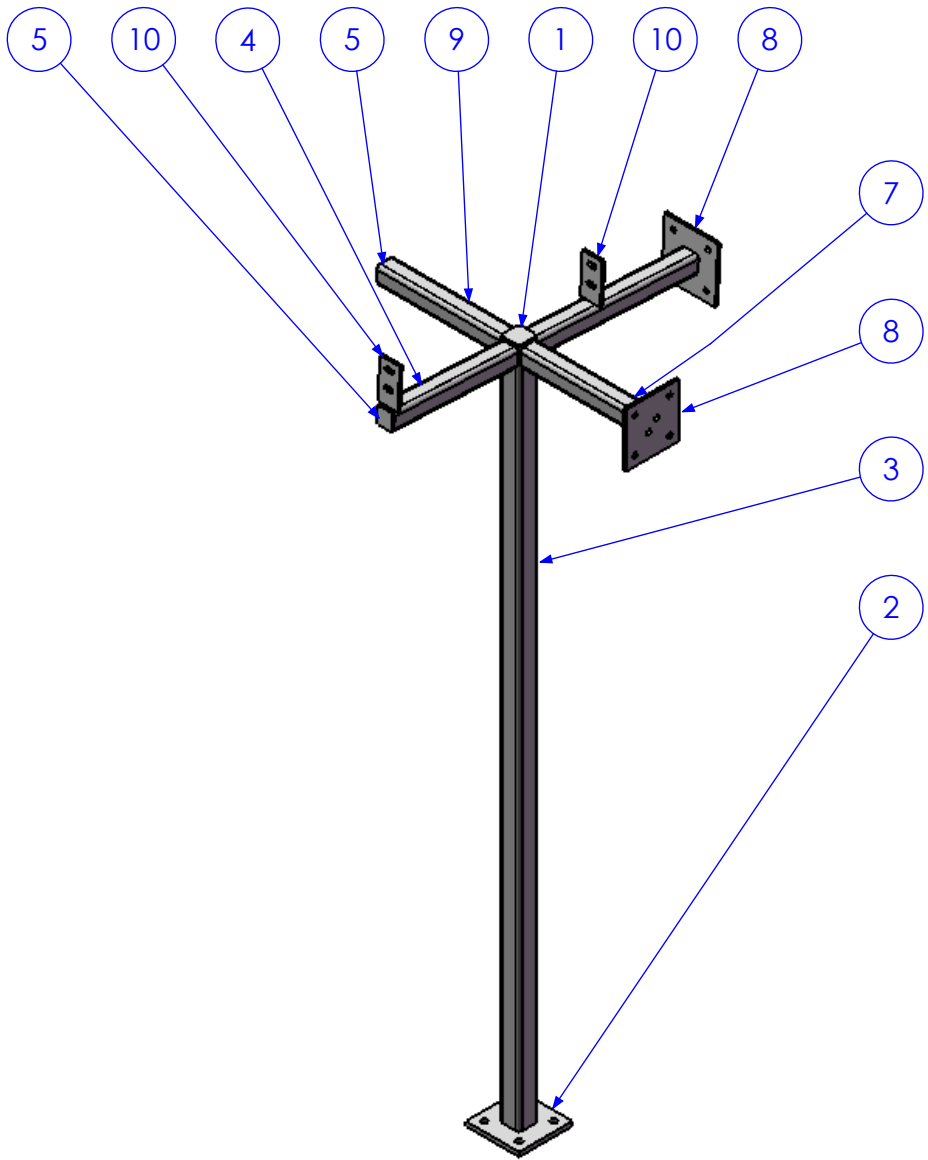
| REV | DESCRIPTION       | DATE       | AMMENDED BY |
|-----|-------------------|------------|-------------|
| 02  | ADD ANGLE TO ROOF | 25/03/2013 | SDB         |
| 01  | INITIAL ISSUE     | 28/11/2012 | SDB         |
| 03  | AS BUILT DRGS     | 28/06/2013 | SDB         |
| REV | AMMENDMENT        | DATE       | AMMENDED BY |

|                      |  |  |  |  |  |                                |  |                        |      |                    |
|----------------------|--|--|--|--|--|--------------------------------|--|------------------------|------|--------------------|
| FINISH REQUIREMENTS- |  | GALVANISED   |  | APPROX. MASS: kg   |  | DO NOT SCALE IF IN DOUBT - ASK |  | JOB NUMBER:            | 5248 | QTY: 1             |
| PROPRIETARY NOTICE   |  | THIS DRAWING IS THE PROPERTY OF AUSFAB CONSTRUCTIONS. COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY AUSFAB CONSTRUCTIONS. THE DRAWINGS, IDEAS & INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES. |  | DRAWING NOTES:   |  | SCALE                          |  | DESCRIPTION            |      | AS1100             |
| AUSFAB CONSTRUCTIONS |  | 40 Kenilworth Street, Warwick, Queensland, Australia 4011 Phone: 1300 995 970 Fax: 1300 998 983  |  | ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1. FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: FABRICATION ± 2.0mm MACHINING ± 0.25mm |  | 1:50 UNO                       |  | THIRD ANGLE PROJECTION |      | A3                 |
| DRAWN                |  | SB   |  | 27/11/12   |  | CHECK                          |  | EG/DB                  |      | REV 03             |
| APPROVED             |  | -  |  | -  |  | DRAWING No.                    |  | 5248-D-A1              |      | PURPOSE OF DRAWING |
|                      |  |  |  |  |  |                                |  |                        |      | FABRICATION        |



AS BUILT

| ITEM NO. | QTY. | MARK NO. | DESCRIPTION | LENGTH    |
|----------|------|----------|-------------|-----------|
| 1        | 1    | CP1      | 5MM PLATE   | 70 X 70   |
| 2        | 1    | P1       | 16MM PLATE  | 200 X 200 |
| 3        | 1    | C1       | 75x75x5 SHS | 2539      |
| 4        | 1    | B1       | 65x65x5 SHS | 464.84    |
| 5        | 2    | CP2      | 5MM PLATE   | 60 X 60   |
| 6        | 1    | B2       | 65x65x5 SHS | 605.04    |
| 7        | 1    | B3       | 65x65x5 SHS | 452.5     |
| 8        | 2    | P2       | 200x10 FL   | 200       |
| 9        | 1    | B4       | 65x65x5 SHS | 462.5     |
| 10       | 2    | P3       | 75x10 FL    | 145       |



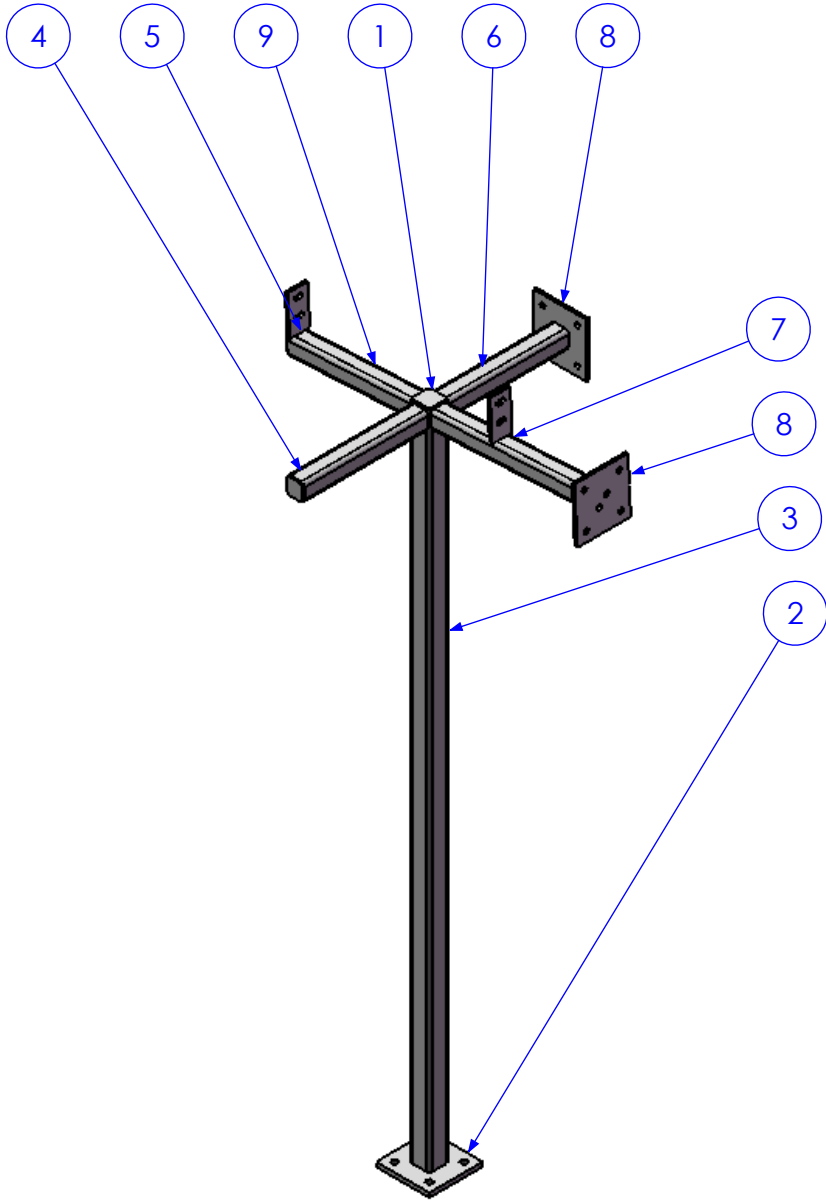
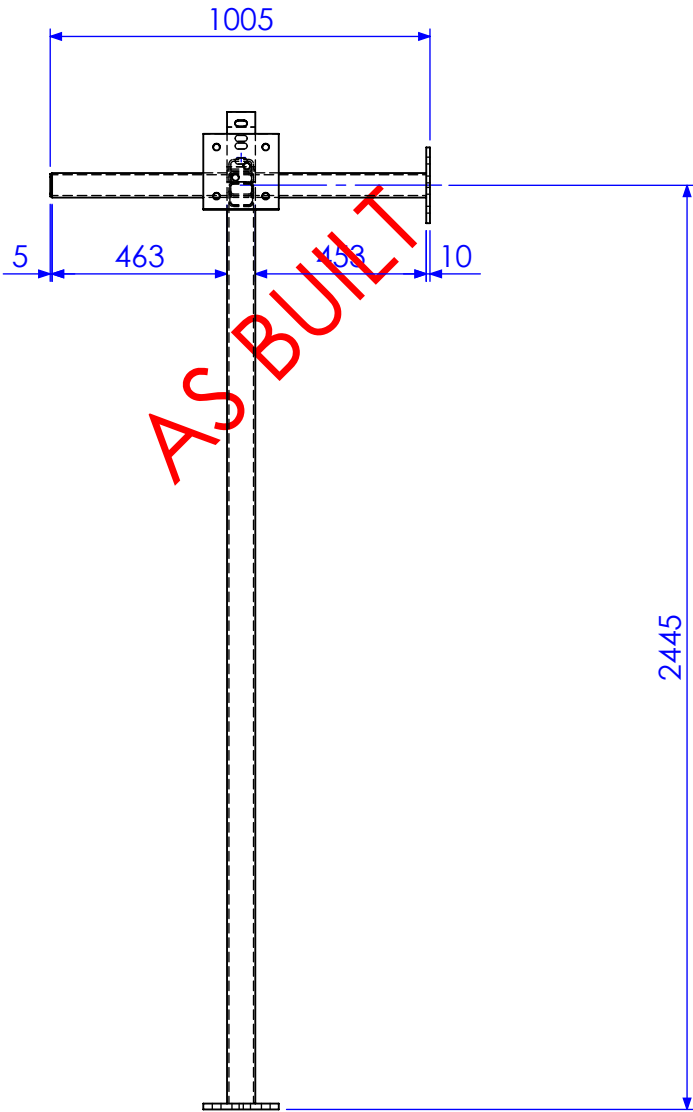
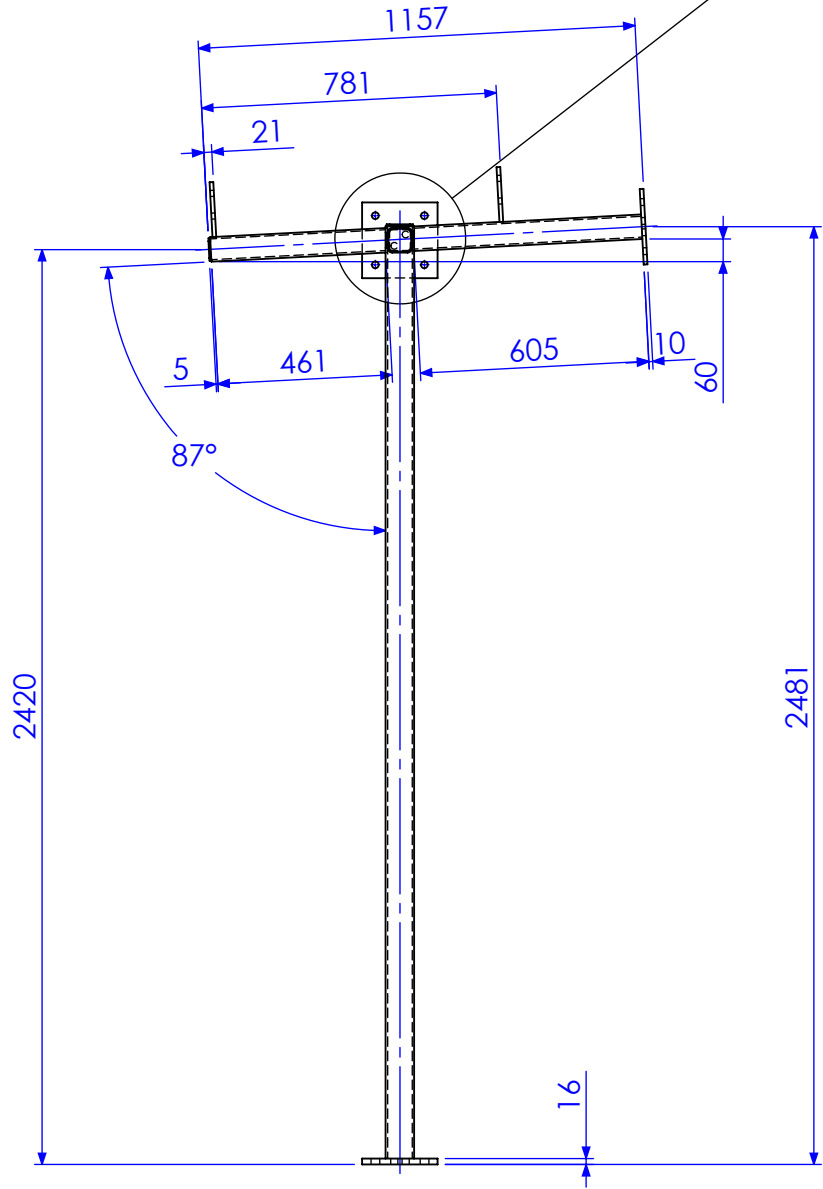
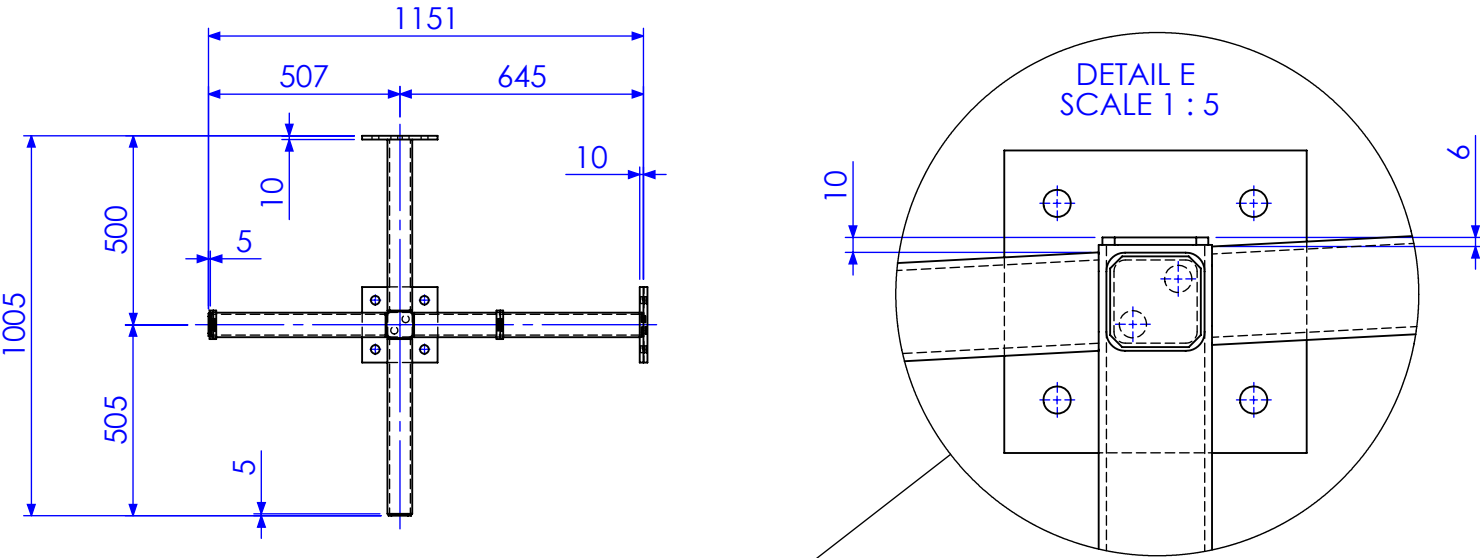
DETAILS OF ALL PLATES SHOWN ON SHEET 8

| REV | DESCRIPTION       | DATE       | AMMENDED BY |
|-----|-------------------|------------|-------------|
| 02  | ADD ANGLE TO ROOF | 25/03/2013 | SDB         |
| 01  | INITIAL ISSUE     | 28/11/2012 | SDB         |
| 03  | AS BUILT DRGS     | 28/06/2013 | SDB         |
| REV | AMMENDMENT        | DATE       | AMMENDED BY |

|                      |  |  |  |   |  |                                |  |                  |      |                        |  |
|----------------------|--|--|--|---|--|--------------------------------|--|------------------|------|------------------------|--|
| FINISH REQUIREMENTS- |  | GALVANISED   |  | APPROX. MASS: kg  |  | DO NOT SCALE IF IN DOUBT - ASK |  | JOB NUMBER:      | 5248 | QTY: 1                 |  |
| PROPRIETARY NOTICE   |  | THIS DRAWING IS THE PROPERTY OF AUSFAB CONSTRUCTIONS. COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY AUSFAB CONSTRUCTIONS. THE DRAWINGS, IDEAS & INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES. |  | DRAWING NOTES:  |  | SCALE                          |  | DESCRIPTION      |      | AS1100                 |  |
| AUSFAB CONSTRUCTIONS |  | 40 Kenilworth Street, Warwick, Queensland, Australia 4011  |  | ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1. FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: |  | DRAWN                          |  | CORNER SECTION A |      | THIRD ANGLE PROJECTION |  |
| 15/05/2015           |  | FABRICATION ± 2.0mm  |  | CHECK   |  | EG/DB                          |  | SHEET 2 of 8     |      | REV 03                 |  |
| FAX: 1300 998 983    |  | MACHINING ± 0.25mm   |  | APPROVED  |  | -                              |  | DRAWING No.      |      | PURPOSE OF DRAWING     |  |
|                      |  |  |  |   |  |                                |  | 5248-D-A1-P1A    |      | FABRICATION            |  |



| ITEM NO. | QTY. | MARK NO. | DESCRIPTION | LENGTH    |
|----------|------|----------|-------------|-----------|
| 1        | 1    | CP1      | 5MM PLATE   | 70 X 70   |
| 2        | 1    | P1       | 16MM PLATE  | 200 X 200 |
| 3        | 1    | C1       | 75x75x5 SHS | 2466      |
| 4        | 1    | B1       | 65x65x5 SHS | 462.5     |
| 5        | 2    | CP2      | 5MM PLATE   | 60 X 60   |
| 6        | 1    | B2       | 65x65x5 SHS | 452.5     |
| 7        | 1    | B3       | 65x65x5 SHS | 605.04    |
| 8        | 2    | P2       | 200x10 FL   | 200       |
| 9        | 1    | B4       | 65x65x5 SHS | 464.84    |
| 10       | 2    | P3       | 75x10 FL    | 145       |



DETAILS OF ALL PLATES SHOWN ON SHEET 8

| REV | DESCRIPTION       | DATE       | AMMENDED BY |
|-----|-------------------|------------|-------------|
| 02  | ADD ANGLE TO ROOF | 25/03/2013 | SDB         |
| 01  | INITIAL ISSUE     | 28/11/2012 | SDB         |
| 03  | AS BUILT DRGS     | 28/06/2013 | SDB         |
| REV | AMMENDMENT        | DATE       | AMMENDED BY |

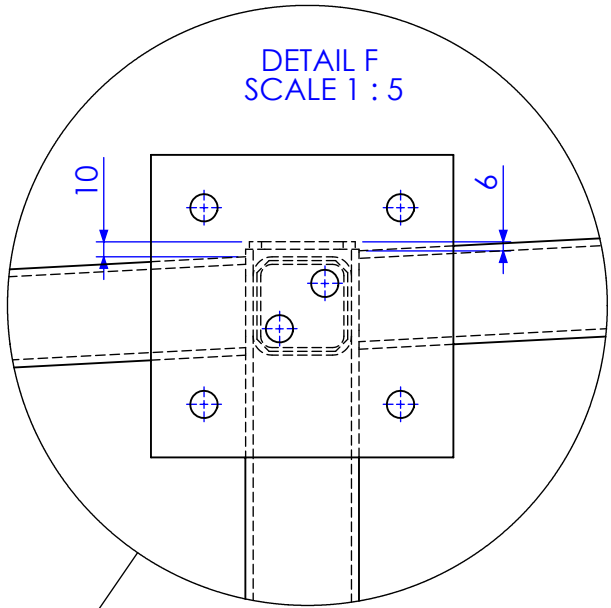
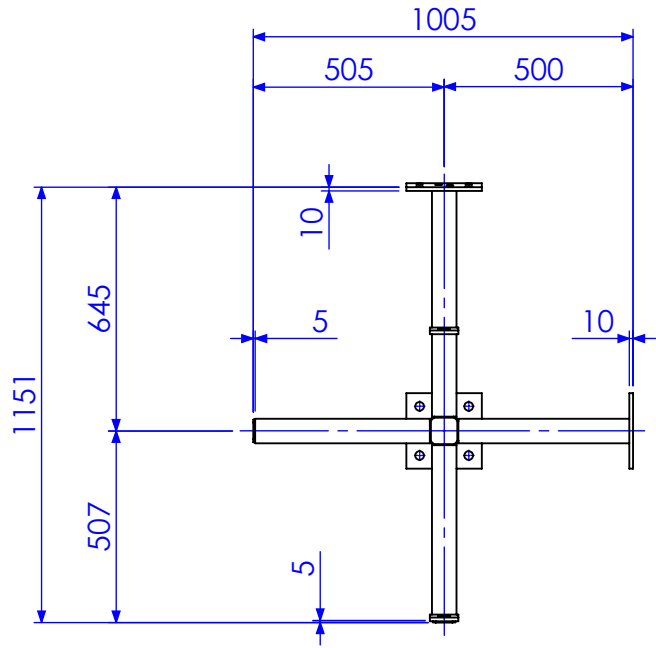
| FINISH REQUIREMENTS-  | GALVANISED |
|---|------------|
| <b>PROPRIETARY NOTICE</b><br>THIS DRAWING IS THE PROPERTY OF AUSFAB CONSTRUCTIONS. COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY AUSFAB CONSTRUCTIONS. THE DRAWINGS, IDEAS & INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES. |            |
| <br>40 Kenilworth Street,<br>Warwick, Queensland, Australia 4011<br>Phone: 1300 995 970<br>Fax: 1300 998 983<br>Date 15/05/2015  |            |

| APPROX. MASS:  | kg |
|--|----|
| <b>DRAWING NOTES:</b><br>ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm |    |

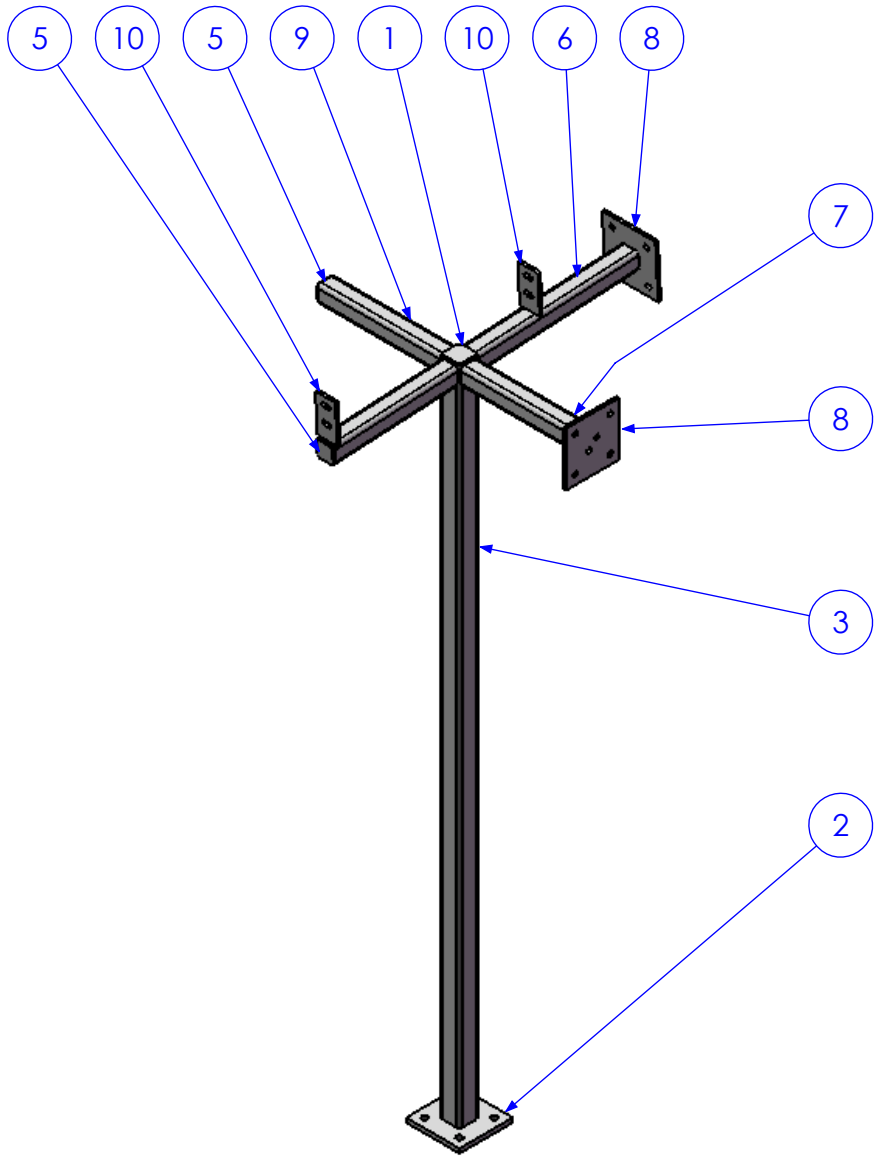
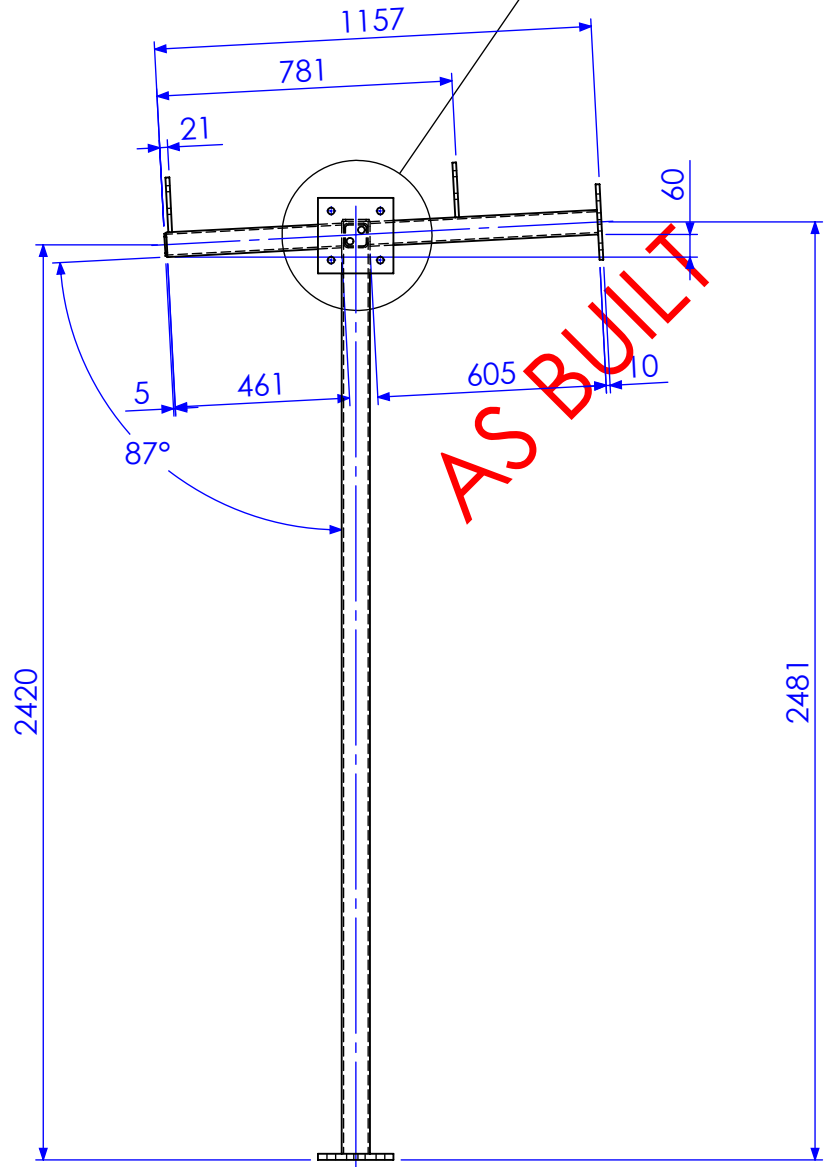
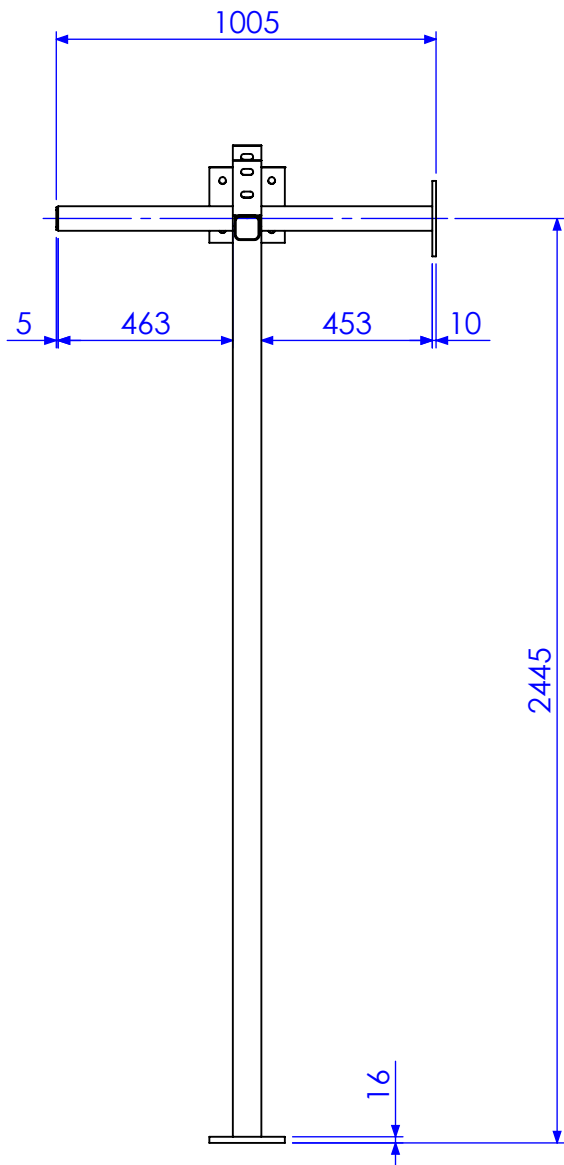
| DO NOT SCALE IF IN DOUBT - ASK |          |          |
|--------------------------------|----------|----------|
| SCALE                          | 1:20 UNO |          |
| DRAWN                          | SB       | 27/11/12 |
| CHECK                          | EG/DB    | -        |
| APPROVED                       | -        | -        |

| JOB NUMBER:             | 5248          |
|-------------------------|---------------|
| DESCRIPTION             |               |
| <b>CORNER SECTION B</b> |               |
| DRAWING No.             | 5248-D-A1-P1B |

| QTY:                   | 1           |
|------------------------|-------------|
| AS1100                 | A3          |
| THIRD ANGLE PROJECTION |             |
| SHEET 3 of 8           | REV 03      |
| PURPOSE OF DRAWING     | FABRICATION |



| ITEM NO. | QTY. | MARK NO. | DESCRIPTION | LENGTH    |
|----------|------|----------|-------------|-----------|
| 1        | 1    | CP1      | 5MM PLATE   | 70 X 70   |
| 2        | 1    | P1       | 16MM PLATE  | 200 X 200 |
| 3        | 1    | C1       | 75x75x5 SHS | 2466      |
| 4        | 1    | B1       | 65x65x5 SHS | 464.84    |
| 5        | 2    | CP2      | 5MM PLATE   | 60 X 60   |
| 6        | 1    | B2       | 65x65x5 SHS | 605.04    |
| 7        | 1    | B3       | 65x65x5 SHS | 452.5     |
| 8        | 2    | P2       | 200x10 FL   | 200       |
| 9        | 1    | B4       | 65x65x5 SHS | 462.5     |
| 10       | 2    | P3       | 75x10 FL    | 145       |




DETAILS OF ALL PLATES SHOWN ON SHEET 8

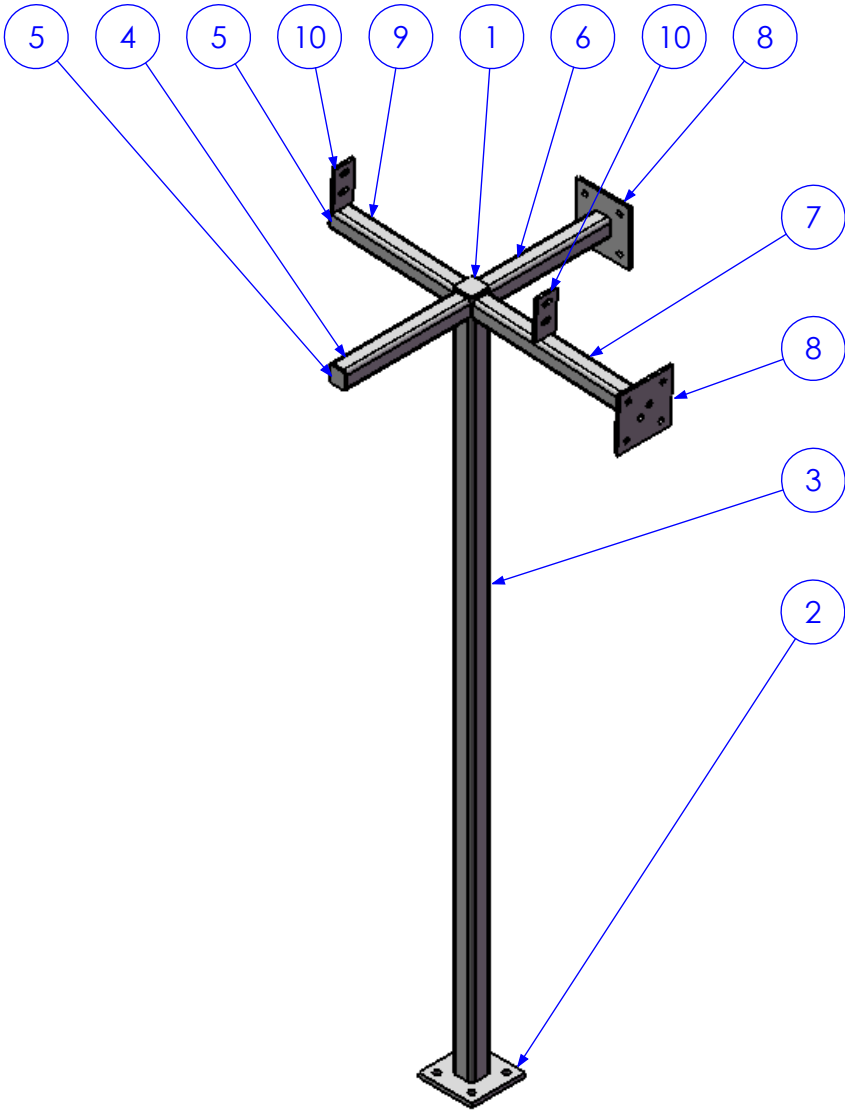
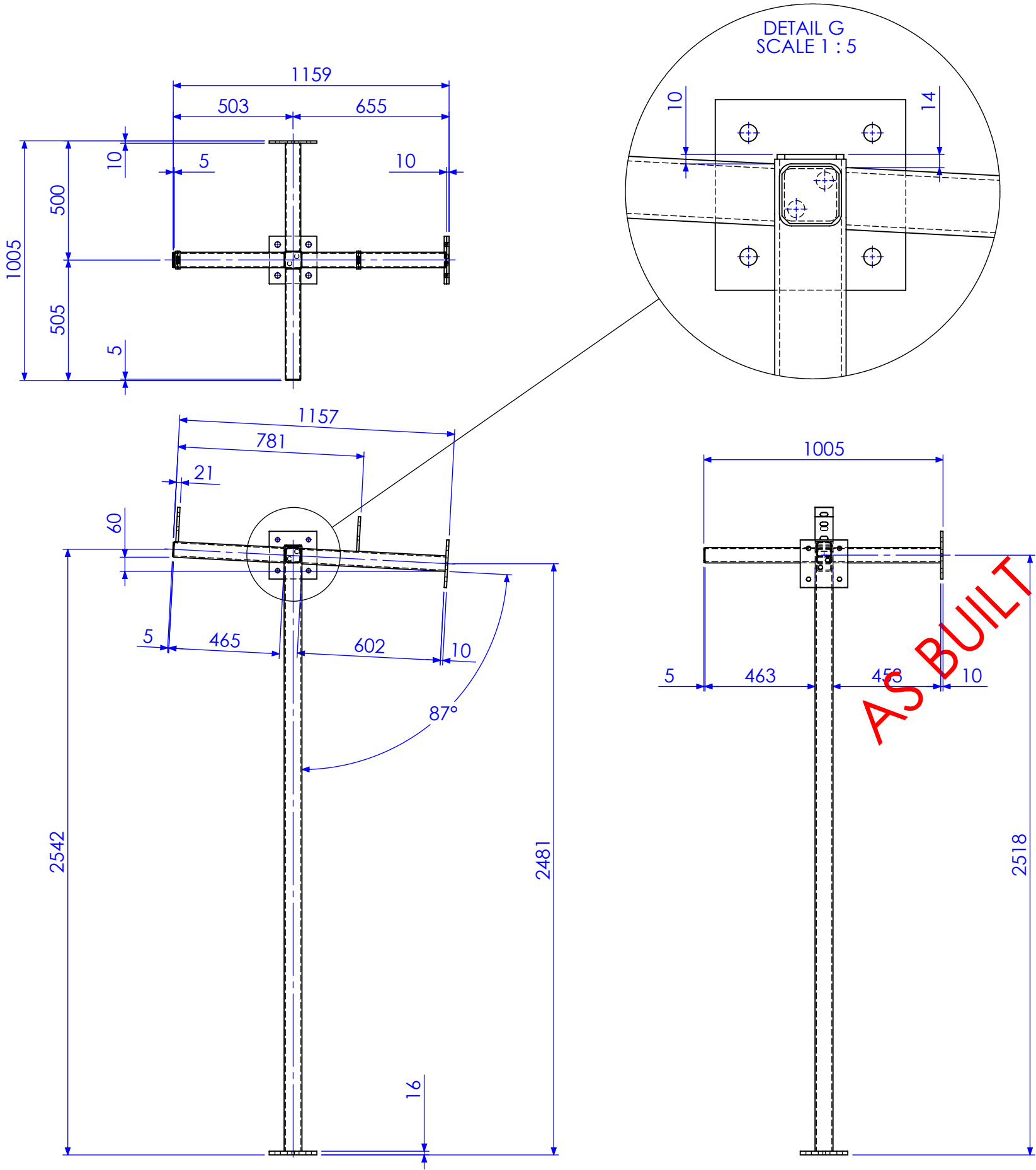
| REV | DESCRIPTION       | DATE       | AMMENDED BY |
|-----|-------------------|------------|-------------|
| 02  | ADD ANGLE TO ROOF | 25/03/2013 | SDB         |
| 01  | INITIAL ISSUE     | 28/11/2012 | SDB         |
| 03  | AS BUILT DRGS     | 28/06/2013 | SDB         |
| REV | AMMENDMENT        | DATE       | AMMENDED BY |

Q-Pulse Id TMS1164

REVISIONS

|  |  |   |  |   |  |                                |  |                                |  |  |  |
|--|--|---|--|---|--|--------------------------------|--|--------------------------------|--|--|--|
| FINISH REQUIREMENTS-   |  | GALVANISED  |  | APPROX. MASS: kg  |  | DO NOT SCALE IF IN DOUBT - ASK |  | JOB NUMBER: 5248               |  | QTY: 1                                 |  |
| PROPRIETARY NOTICE   |  |  <div>40 Kenilworth Street,<br/>Warwick, Queensland, Australia 4011<br/>Phone: 1300 995 970<br/>Fax: 1300 998 983<br/>15/05/2015</div> |  | DRAWING NOTES:  |  | SCALE 1:20 UNO                 |  | DESCRIPTION                    |  | AS1100<br>THIRD ANGLE PROJECTION<br>A3 |  |
| THIS DRAWING IS THE PROPERTY OF AUSFAB CONSTRUCTIONS. COPYRIGHT IS RESERVED. THIS DRAWING MAY NOT BE COPIED OR USED IN ANY MANNER EXCEPT AS AGREED TO BY AUSFAB CONSTRUCTIONS. THE DRAWINGS, IDEAS & INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES. |  |   |  | ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.<br>FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:<br>FABRICATION ± 2.0mm<br>MACHINING ± 0.25mm |  | DRAWN SB 27/11/12              |  | CORNER SECTION C               |  | SHEET 4 of 8<br>REV 03                 |  |
|  |  |   |  |   |  | CHECK EG/DB -                  |  |                                |  |  |  |
|  |  |   |  |   |  | APPROVED - -                   |  |                                |  |  |  |
|  |  |   |  |   |  | DRAWING No. 5248-D-A1-P1C      |  | PURPOSE OF DRAWING FABRICATION |  | Page 90 of 95                          |  |

| ITEM NO. | QTY. | MARK NO. | DESCRIPTION | LENGTH    |
|----------|------|----------|-------------|-----------|
| 1        | 1    | CP1      | 5MM PLATE   | 70 X 70   |
| 2        | 1    | P1       | 16MM PLATE  | 200 X 200 |
| 3        | 1    | C1       | 75x75x5 SHS | 2539      |
| 4        | 1    | B1       | 65x65x5 SHS | 462.5     |
| 5        | 2    | CP2      | 5MM PLATE   | 60 X 60   |
| 6        | 1    | B2       | 65x65x5 SHS | 452.5     |
| 7        | 1    | B3       | 65x65x5 SHS | 605.04    |
| 8        | 2    | P2       | 200x10 FL   | 200       |
| 9        | 1    | B4       | 65x65x5 SHS | 464.84    |
| 10       | 2    | P3       | 75x10 FL    | 145       |



DETAILS OF ALL PLATES SHOWN ON SHEET 8

|           |                   |            |             |
|-----------|-------------------|------------|-------------|
| 02        | ADD ANGLE TO ROOF | 25/03/2013 | SDB         |
| 01        | INITIAL ISSUE     | 28/11/2012 | SDB         |
| 03        | AS BUILT DRGS     | 28/06/2013 | SDB         |
| REV       | AMMENDMENT        | DATE       | AMMENDED BY |
| REVISIONS |                   |            |             |

|   |  |
|---|--|
| FINISH<br>REQUIREMENTS-   | GALVANISED   |
| <b>PROPRIETARY NOTICE</b>   |  <b>AusFAB</b><br>CONSTRUCTIONS |
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|   |  |

40 Kenilworth Street,  
Warwick, Queensland, Australia 4011  
Phone: 1300 995 970  
Fax: 1300 998 983

15/05/2015

|   |  |                                |             |
|---|--|--------------------------------|-------------|
| APPROX. MASS: kg  |  | DO NOT SCALE IF IN DOUBT - ASK |             |
| DRAWING NOTES:  |  | SCALE                          | 1:20 UNO    |
| ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1. FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY: |  | DRAWN                          | SB 27/11/12 |
| FABRICATION ± 2.0mm   |  | CHECK                          | EG/DB -     |
| MACHINING ± 0.25mm  |  | APPROVED                       | - -         |

|                  |      |                        |             |
|------------------|------|------------------------|-------------|
| JOB NUMBER:      | 5248 | QTY:                   | 1           |
| DESCRIPTION      |      | AS1100                 | A3          |
| CORNER SECTION D |      | THIRD ANGLE PROJECTION |             |
| DRAWING No.      |      | SHEET 5 of 8           | REV 03      |
| 5248-D-A1-P1D    |      | PURPOSE OF DRAWING     | FABRICATION |

Technical drawing of a window frame assembly, showing front and side views with dimensions and a 'AS BUILT' stamp.

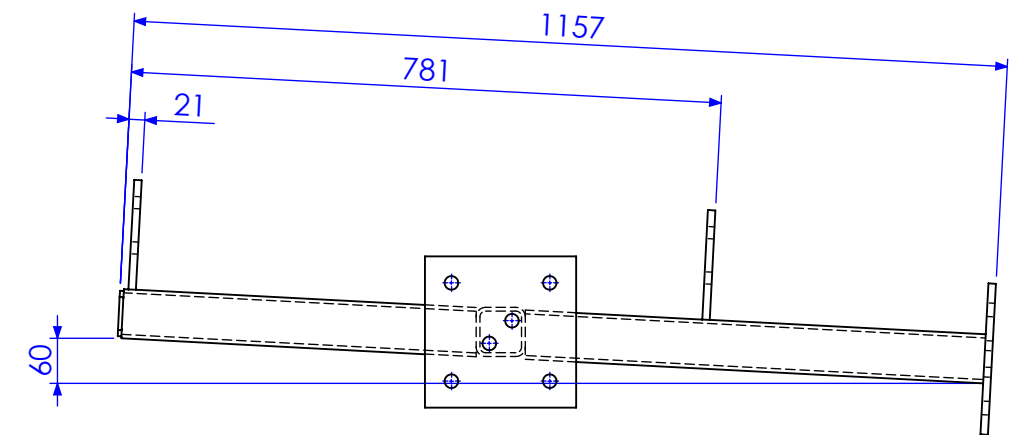
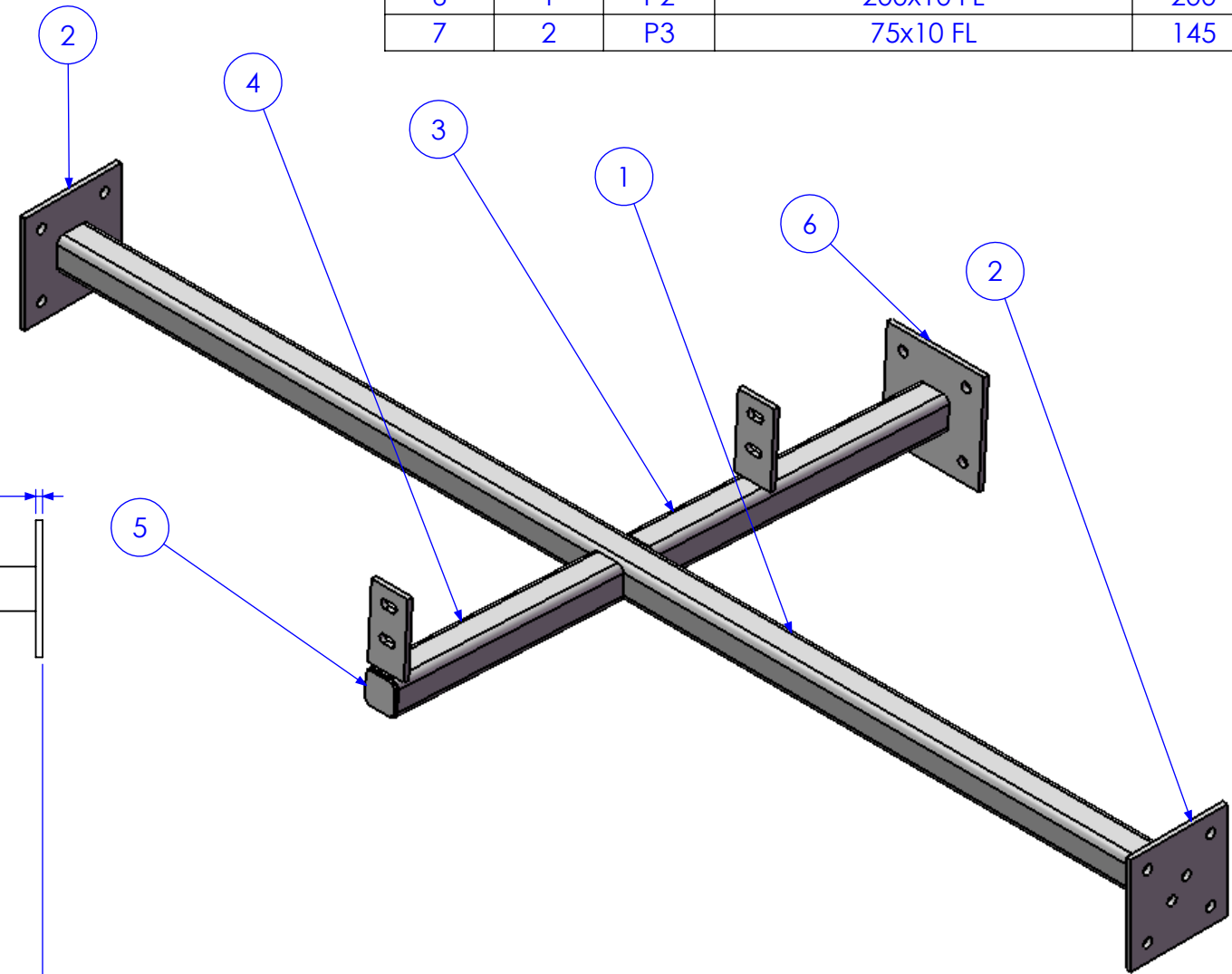
**Front View (Top):**

- Overall width: 2300
- Overall height: 1150
- Side dimensions (from left and right edges): 10
- Central vertical element (mullion) is shown.

**Side View (Bottom):**

- Overall width: 1150
- Central vertical element (mullion) is shown.

**Stamp:** AS BUILT



|     |                   |            |             |
|-----|-------------------|------------|-------------|
| 02  | ADD ANGLE TO ROOF | 25/03/2013 | SDB         |
| 01  | INITIAL ISSUE     | 28/11/2012 | SDB         |
| 03  | AS BUILT DRGS     | 28/06/2013 | SDB         |
| REV | AMMENDMENT        | DATE       | AMMENDED BY |

PURPOSE OF DRAWING  
Page 92 of 95  
**FABRICATION**

ST56 - Boonah STP - Regional Lagoons Upgrade - Sheds - QM Manual

NOTE: WHERE ITEM LIST AND DRAWING CONFLICT, CONTACT AUSFAB CONSTRUCTIONS 1300 995 970

| DESCRIPTION    | LENGTH |
|----------------|--------|
| Lysaght_150cee | 4310   |

0

505

2155

3805

4310

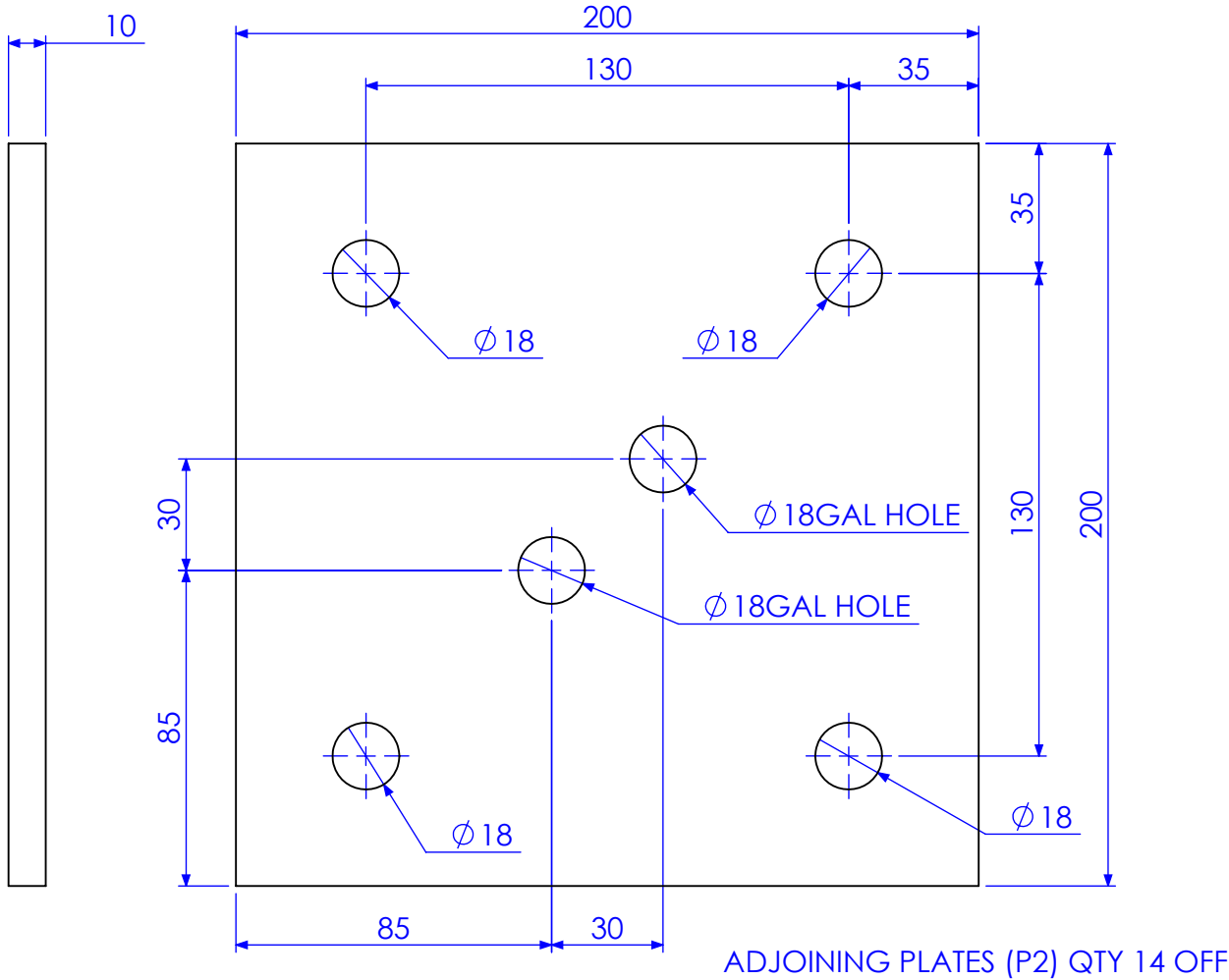
AS BUILT

150 C 12

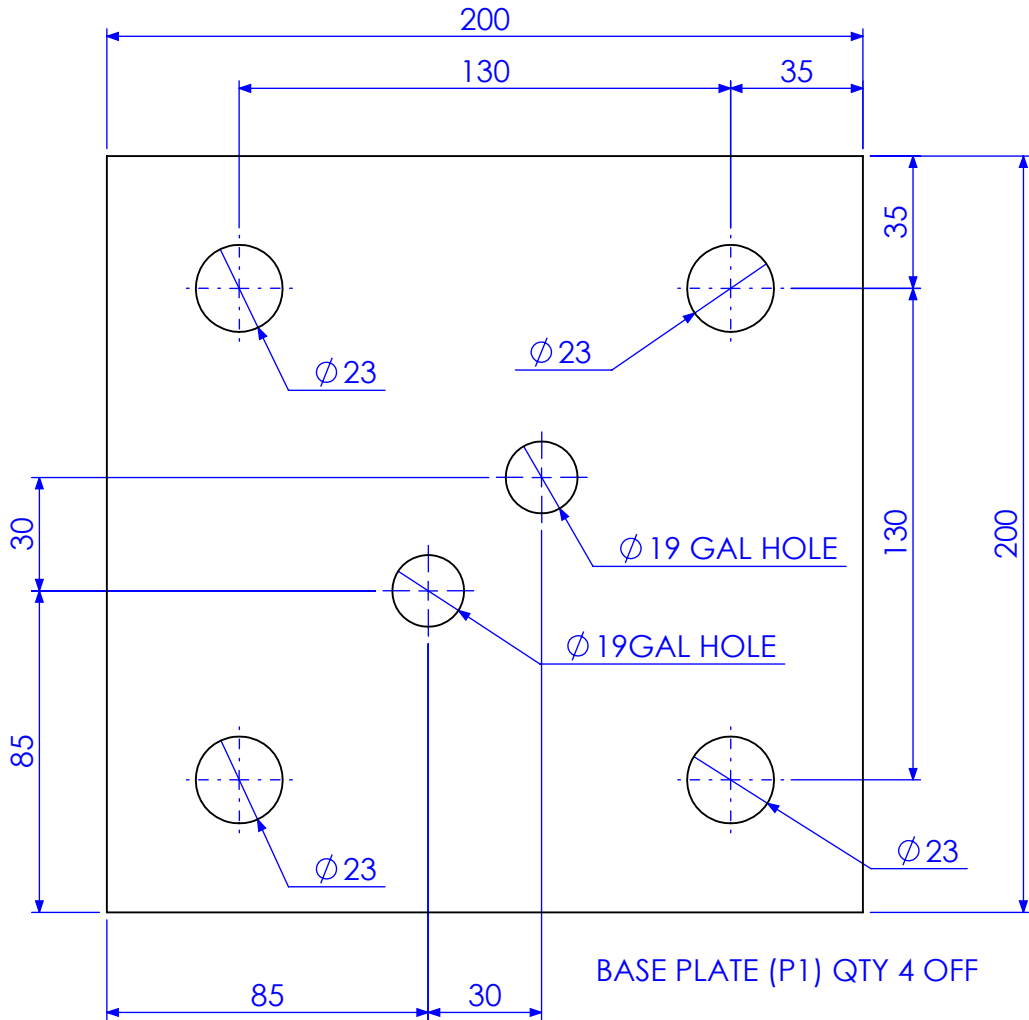
SUPPLIED BY PURLIN MANUFACTURER

|                    |  |                   |  |                      |  |  |  |                     |  |  |  |             |  |             |  |                                   |  |                                  |  |       |  |          |  |
|--------------------|--|-------------------|--|----------------------|--|--|--|---------------------|--|--|--|-------------|--|-------------|--|-----------------------------------|--|----------------------------------|--|-------|--|----------|--|
|                    |  |                   |  | FINISH REQUIREMENTS- |  | GALVANISED   |  | APPROX. MASS:<br>kg |  | DO NOT SCALE<br>IF IN DOUBT - ASK  |  | JOB NUMBER: |  | 5248        |  | QTY: 4                            |  |                                  |  |       |  |          |  |
|                    |  |                   |  | PROPRIETARY NOTICE   |  |  <div>40 Kenilworth Street,<br/>Warwick, Queensland, Australia 4011<br/>Phone: 1300 995 970<br/>Fax: 1300 998 983</div> |  | DRAWING NOTES:      |  | SCALE  |  | 1:15 UNO    |  | DESCRIPTION |  | PURLIN A                          |  | AS1100<br>THIRD ANGLE PROJECTION |  |       |  |          |  |
| 02                 |  | ADD ANGLE TO ROOF |  | 25/03/2013           |  |  |  | SDB                 |  | ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.  |  | DRAWN       |  |             |  |                                   |  |                                  |  | SB    |  | 27/11/12 |  |
| 01                 |  | INITIAL ISSUE     |  | 28/11/2012           |  |  |  | SDB                 |  | FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:  |  | CHECK       |  |             |  |                                   |  |                                  |  | EG/DB |  | -        |  |
| 03                 |  | AS BUILT DRGS     |  | 28/06/2013           |  |  |  | SDB                 |  | AUSFAB CONSTRUCTIONS THE DRAWINGS, IDEAS & INVENTIONS SHOWN SHALL NOT BE DISCLOSED TO OTHER PARTIES. |  | APPROVED    |  |             |  |                                   |  |                                  |  | -     |  | -        |  |
| REV.               |  | AMMENDMENT        |  | DATE                 |  | AMMENDED BY  |  |                     |  |  |  |             |  | DRAWING No. |  | 5248-C-A1-P4                      |  |                                  |  |       |  |          |  |
| Q-Pulse Id TMS1164 |  |                   |  | REVISIONS            |  |  |  |                     |  |  |  |             |  |             |  | PURPOSE OF DRAWING<br>FABRICATION |  |                                  |  |       |  |          |  |
| Page 93 of 95      |  |                   |  |                      |  |  |  |                     |  |  |  |             |  |             |  |                                   |  |                                  |  |       |  |          |  |

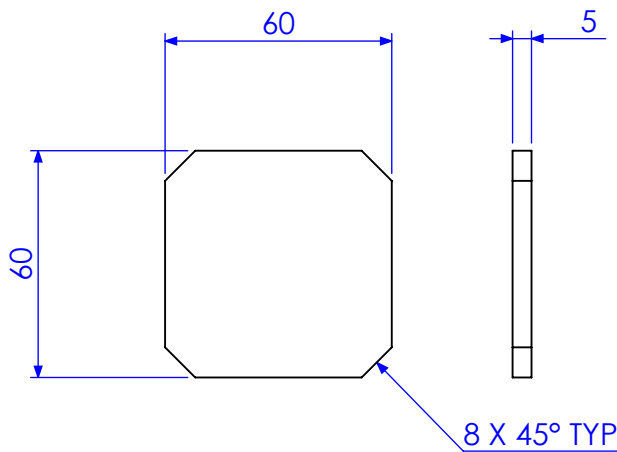




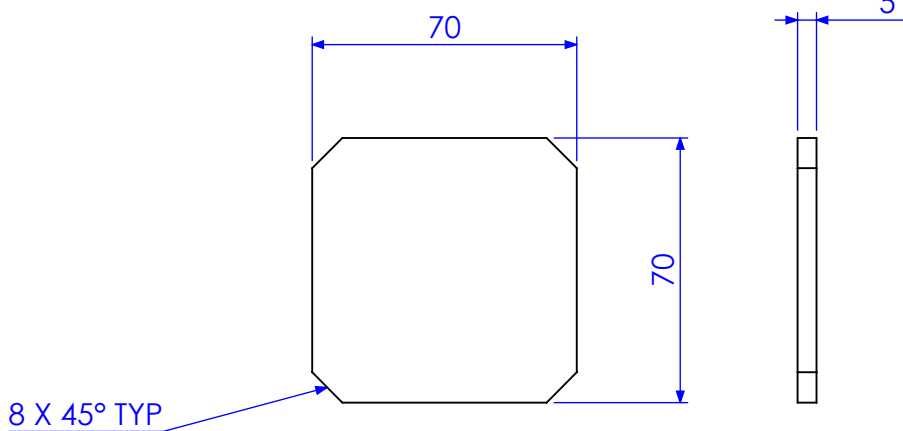
ADJOINING PLATES (P2) QTY 14 OFF



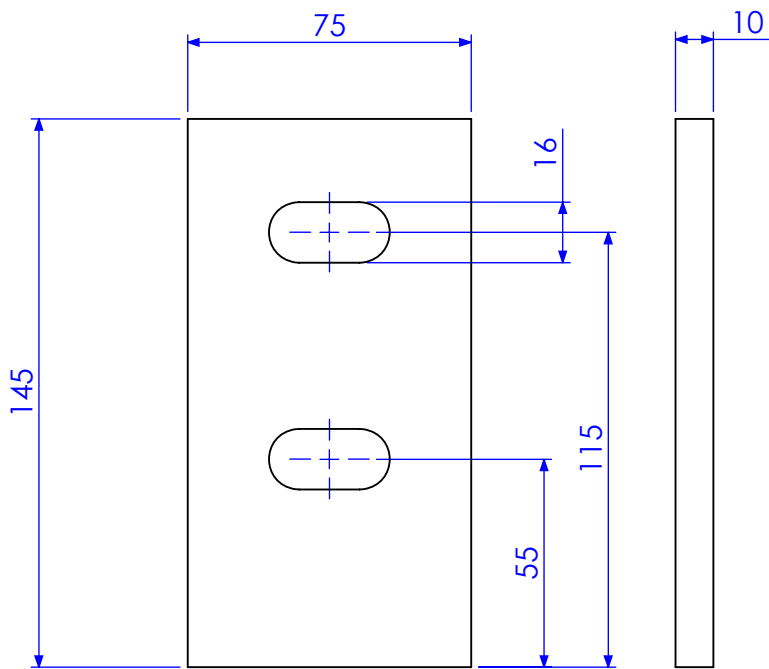
BASE PLATE (P1) QTY 4 OFF



CAP PLATES (CP2) FOR 65 SHS QTY 10 OFF



CAP PLATES (CP1) FOR MAIN POSTS QTY 4 OFF



PURLIN PLATES P3 QTY 12 OFF 32X16 SLOTS

NOTE; BRACKETED MARK NO.S  
CORRESPOND WITH OTHER DRAWINGS

NOTE; FINISH STATED BELOW APPLIES TO ASSEMBLIES ONLY.  
NONE OF THE PLATES ABOVE ARE GALVANISED SEPERATELY.

SEE INDIVIDUAL  
QTYS

| REV | DESCRIPTION       | DATE       | AMMENDED BY |
|-----|-------------------|------------|-------------|
| 02  | ADD ANGLE TO ROOF | 25/03/2013 | SDB         |
| 01  | INITIAL ISSUE     | 28/11/2012 | SDB         |
| 03  | AS BUILT DRGS     | 28/06/2013 | SDB         |
| REV | AMMENDMENT        | DATE       | AMMENDED BY |

Q-Pulse Id TMS1164

REVISIONS

| FINISH REQUIREMENTS-  | GALVANISED |
|---|------------|
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| APPROX. MASS: | DO NOT SCALE      |
|---------------|-------------------|
| kg            | IF IN DOUBT - ASK |
| SCALE         | 1:2 UNO           |
| DRAWN         | SB 27/11/12       |
| CHECK         | EG/DB -           |
| APPROVED      | - -               |

DRAWING NOTES:  
ALL WELDING TO BE IN ACCORDANCE WITH AS1554 PART 1.  
FOR UNTOLERANCED DIMENSIONS THE FOLLOWING LIMITS SHALL APPLY:  
FABRICATION ± 2.0mm  
MACHINING ± 0.25mm

| JOB NUMBER:            | 5248 | QTY:          | 1                  |
|------------------------|------|---------------|--------------------|
| DESCRIPTION            |      | AS1100        | A3                 |
| THIRD ANGLE PROJECTION |      | SHEET 8 of 8  | REV 03             |
| DRAWING No.            |      | 5248-D-A1-P1A | PURPOSE OF DRAWING |
| FABRICATION            |      |               |                    |

### PLATE LIST FOR BOONAH PUMP STATION



GENERAL NOTES:

- [illegible]

**REINFORCEMENT:**

- R1 REFER TO THE CONCENTRATION NOTES FOR THE SPECIFIED CONDITIONS OF REINFORCEMENT. REINFORCEMENT SHALL BE MAINTAINED AT ALL CHAMBERS, END GROOVES, AND REGLET'S UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- R2 REINFORCEMENT IS SHOWN DIAGONALLY. IT IS NOT NECESSARY TO SHOW THE PROJECTION.
- R3 REINFORCEMENT SHALL NOT BE CUT OR WEARDED ON SITE WITHOUT APPROVAL. THE REINFORCER IS SHALL HOE TESTS AT 300MM SPACING OF PLUMBING PENETRATIONS. SHALL BE DISPLACED TO EITHER SIDE.
- R4 SITE BONDING OF REINFORCEMENT SHALL BE ADDED IF POSSIBLE, WHERE SITE BONDING IS NOT SHOWN, THE REINFORCEMENT SHALL BE CONSIDERED TO BE THE TIEEL REINFORCEMENT INSTALLED BY INSTALLA.
- R5 REINFORCES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN. THE POSITIONS WHERE LAP ENDS ARE NOT SHOWN THEY SHALL BE AS INDICATED BY THE DRAWING.

| BAR SIZE | MINIMUM LAP LENGTH |
|----------|--------------------|
| N10      | 300 (300)          |
| N12      | 400 (500)          |
| N16      | 600 (800)          |
| N20      | 800 (1000)         |
| N24      | 1000 (1300)        |
| N28      | 1200 (1600)        |
| N32      | 1500 (1900)        |
| N36      | 1700 (2200)        |

\* LENGTHS SHOWN IN BRACKETS APPLY TO HORIZONTAL BARS WITH MORE THAN 300mm OF CONCRETE CAST BELOW THE BAR.

THE ABOVE DEVELOPMENT LENGTHS ARE FOR MAIN REINFORCEMENT IN C-32 MP CONCRETE WITH 30mm CLEAR COVER FOR WALLS AND SLABS AND 30mm CLEAR COVER TO MIN. R10 TIEBARS FOR COLUMNS AND BEAMS.

- REINFORCEMENT STRIPS.
- N DENOTES DIMENSIONS REFERRED TO AS 4.671
- N DENOTES DIMENSIONS REFERRED TO AS 4.671
- N DENOTES DIMENSIONS REFERRED TO AS 4.671
- SUR. - DENOTES REINFORCEMENT FABRIC TO AS 4.671
- W - DENOTES REINFORCING FABRIC TO AS 4.671
- 87 FABRIC REINFORCEMENT SHALL BE LAPPED TWO TRANSVERSE LINES PLUS DIMENSION N
- 88 JOGGES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OR LAP AREA
- 89 ALL REINFORCEMENT SHALL BE CAPPED AT MAXIMUM CENTERS AS FOLLOWS:
- 90 BARS - NO CENTERS EACH WAY
- 91 FABRIC - 800 CENTERS EACH WAY
- EXTRA CHAIRS WILL BE REQUIRED ADJACENT TO BAR EDGES AND JOINTS TO PREVENT THE UPWARD FLEXING OF THE FABRIC WHEN STOOD ON.
- FOR STEEL CHAIRS SHALL BE PLACED THREE STEEL CHAIRS ONLY BE USED FOR SPECIFIC CONDITIONS A1 AND A2. PLASTIC CHAIRS CAN ONLY BE USED ON BLEMISHES THAT HAVE EXISTED, EXPOSURE NOT COMPLETED UNDER ALL WEATHER CONDITIONS IS CRACKS OR CRACKS SUPPORTED AND/OR FLOORS
- R11 AT THE END SUPPORT OF A SLAB ON A MASONRY WALL, ALL BOTTOM REINFORCING BARS SHALL BE LAPPED WITH TOP REINFORCING BARS. THE LAPS SHALL BE COMING FROM THE SAME SIDE. IF COVER REQUIREMENTS PROHIBIT THIS THE BARS SHALL BE

LOADING:

- L1 SUPERIMPOSED LOADS ARE GENERALLY IN ACCORDANCE WITH AS 1170 AND AS NOTED.
- L2 WIND LOADS ARE IN ACCORDANCE WITH AS 1170 AS FOLLOWS :-

## FOUNDATIONS:

- F1 FOOTING HAS BEEN DESIGNED IN ACCORDANCE WITH HOUSSAUS PARTNERS GEOTECHNICAL REPORT NO.7887.00, DATED JUNE 2012.
- F2 FOOTINGS HAVE BEEN DESIGNED FOR THE FOLLOWING BEARING PRESSURES 100PSI TO BE FOUNDED ON STIFF SANDY CLAY OR STIFF SILTY CLAY OR CERTAIN ENGINEERED FILL.
- F3 FOUNDATION MATERIAL SHALL BE APPROVED BY THE CONSULTING GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

CONCRETE:

- C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600.
- C2 OTHER THAN RELEVANT AUSTRALIAN STANDARDS UNLESS VARYED BY THE ENGINEER.
- C3 HOLES, PREPARATIONS, CHASES AND CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- C3 CONSTRUCTION JOINTS SHALL BE PROPERLY TROWELED WHERE VERTICAL, THE POLS SHALL BE THOROUGHLY SCABBLED AND CLEANED OF ALL POLY OR CUR MATERIAL, AND LAUNCE THOROUGHLY, SOAKED AND PAINTED WITH A 2:1 SANDS COMPACT SURFIMMEDIATELY BEFORE PLACING THE SECOND POUR. THOROUGHLY COMPACT THE SECOND POUR AGAINST THE FIRST POUR.

- [illegible]

## C7 SPECIFICATION OF CONCRETE:

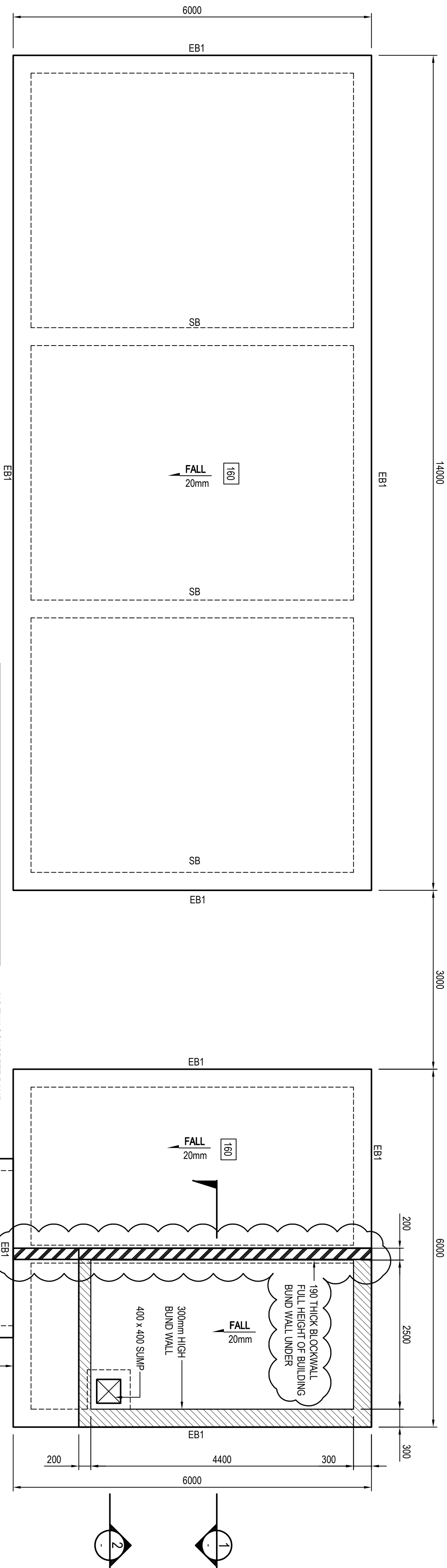
| Exhibit    | Ship | Max. Age | Current Type | Admix. | Concrete Grade | Exposure Class | Fire Resistance Rating | Owner |
|------------|------|----------|--------------|--------|----------------|----------------|------------------------|-------|
|            |      |          |              |        |                |                | U.N.O.                 |       |
| Exterior   |      |          |              |        |                |                |                        |       |
| Mar. conc. | 80   | 20       | GP           | NIL    | 25 Pcs A2      | -              | -                      | -     |
| Reinforced | 80   | 20       | GP           | NIL    | 40 MPa         | -              | 50                     | -     |
| External   |      |          |              |        |                |                |                        |       |
| Site on    | 80   | 20       | SL           | NIL    | 40 MPa         | B1             | -                      | 40    |
| Internal   |      |          |              |        |                |                |                        |       |
| Site on    |      |          |              |        |                |                |                        |       |
| Ground     | 80   | 20       | SL           | NIL    | 40 MPa         | A1             | -                      | 30    |

1. ALL CONCRETE WITH SHIRKAGGE LIMITED (S/L) CEMENT SHALL HAVE A MAXIMUM STRAIN OF 600 MICROSTRANS AS DETERMINED BY TEST IN ACCORDANCE WITH AS 10 AFTER 8 WEEKS OF DRYING.
2. WATER CEMENT RATIO OF CONCRETE SHALL NOT EXCEED 0.56 (EXCEPT FOR CORE FILL GROUT IN BLOCK WALLS)

03. WHEN A WINDOW BRASS IS SPECIFIED, BRASS SHALL BE USED IN ALL CASES. BRASS SHALL BE 100% BRASS, NOT AN ALUMINUM BRASS. BRASS SHALL BE 30MM (1 1/8") THICK, WITH A MINIMUM NET FINISHING SURFACE AREA OF 100 CM<sup>2</sup> (15.5 IN<sup>2</sup>).
04. WHEN CONCRETE SLABS ARE IN EXISTENCE, INCLUDING CONCRETE BLOCKS, THE BRASS SURFACE OF THE WINDOW SHALL BE FINISHED WITH A 3.0 CM (1 1/8") BEAD OF POLISHED BRASS. THE BRASS SHALL BE 30MM (1 1/8") THICK, WITH A MINIMUM NET FINISHING SURFACE AREA OF 100 CM<sup>2</sup> (15.5 IN<sup>2</sup>).
05. SPECIAL DETAILS SHALL APPLY FOR ROOF JOISTS OR SIMILARLY SPACED SLAB AND BE BRASS 50MM (2") WIDE OR OTHER SIZE APPROVED BY THE ARCHITECT.
06. NON-ADHESIVE WINDOW SLABS SHALL BE SPACED FROM THE SURFACE OF SLAB AND BRASS BY 10MM (3/8") OR OTHER SIZE APPROVED BY THE ARCHITECT.
07. BEFORE THE COMMENCEMENT OF CONCRETING THE WINDOW SLAB, INSURE THE WINDOW SLAB IS FULLY FREE OF ANY MOULD OR FORMWORK. THE WINDOW SLAB SHALL BE FINISHED WITH A 3.0 CM (1 1/8") BEAD OF POLISHED BRASS. THE BRASS SHALL BE 30MM (1 1/8") THICK, WITH A MINIMUM NET FINISHING SURFACE AREA OF 100 CM<sup>2</sup> (15.5 IN<sup>2</sup>).
08. SPECIAL DETAILS OF BRASS AND SLAB ARE CHECKED IN ADVANCE BY THE ARCHITECT BEFORE CONCRETING OF BRASS AND SLAB ARE CHECKED IN ADVANCE BY THE ARCHITECT.
09. CONSTRUCTION AND SUPPORT PROPPING SHALL BE ADDED, OR LEFT IN PLACE, AS REQUIRED TO OVERSTRESS THE STRUCTURE DUE TO CONSTRUCTION LOADS.
10. CONSTRUCTION AND SUPPORT PROPPING SHALL BE ADDED, OR LEFT IN PLACE, AS REQUIRED TO OVERSTRESS THE STRUCTURE DUE TO CONSTRUCTION LOADS.
11. NON-MOVING OR PARTIAL WALLS SHALL BE CONSTRUCTED ON STRENGTHENED PRECAST SLAB. JAWS SETTING PROPPING HAS BEEN RECOMMENDED AND THE SLAB PRECASTED WITH THE JOISTS OR MATERIALS TO BE USED IN THE WALL.

FLOOR SLAB CONSTRUCTION:

- REINFORCEMENT USED OFF OF CHAIRS ARE REDUCED PRIOR TO CONCRETE PLACEMENT
  - NO STE WATERS ARE ADDED TO CONCRETE OR CONCRETE IN WAITING TROCKS
  - ALL CONCRETE PLACEMENT SHALL BE DONE WITH LOW DROP
  - ALL CONCRETE IS FULLY COMPACTED USING A POWER TAMPOR.
  - NO JOINTS ARE EFFECTED WHEN THE AMBIENT TEMPERATURE IS EQUALS OR EXCEEDS 35°C.
  - JOINTS ARE PROTECTED FROM AIR DRYING WINDS.
- F22. FINAL SURFACE COMPACTION SHALL BE ACHIEVED USING A TWO HEAD ROLLER OR POWER TROWEL**
- F23. THE FINISHED CONCRETE SHALL BE CURED FOR A MINIMUM OF SEVEN DAYS**
- a) POURING OF CONTINUOUS SPRINKLING WITH WATER
  - b) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
  - c) WHEN THE AMBIENT TEMPERATURE EXCEEDS 32°C CONJOINTLY ONLY BE
  - d) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
  - e) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
  - f) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
  - g) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
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  - i) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
  - j) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
  - k) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
  - l) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
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  - q) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
  - r) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
  - s) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
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  - u) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
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  - x) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
  - y) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
  - z) THE USE OF AN ABSORBENT COVER EXCEPT CONCRETE VET.
- F24. THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY**
- a) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - b) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - c) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - d) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - e) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - f) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - g) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - h) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - i) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - j) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - k) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - l) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - m) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
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  - r) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - s) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - t) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - u) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - v) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - w) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - x) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - y) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
  - z) THE USE OF A CURING COMPOUND COMPACT WITH A SPRAY APP AND UNIFORMLY
- F25. THE CONCRETE SHOULD BE CONTINUOUS, FLEXIBLE AND WITHOUT VISIBLE BREAKS OR JOINTS OVER THE SPAN DAYS.**



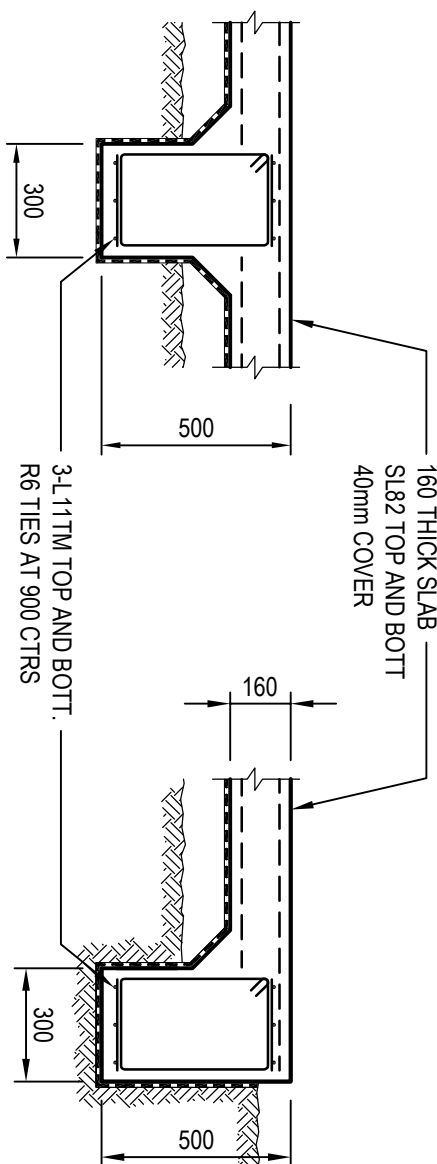
## SLAB PLAN

**FILTRATION BUILDING**

ALL SLABS TO BE 160 THICK U.N.O. 40 MPa CONCRETE. SL82 TOP AND BOTTOM FABRIC. 40mm COVER. PLACED ON A WATERPROOF MEMBRANE, ON 50mm SAND BEDDING.

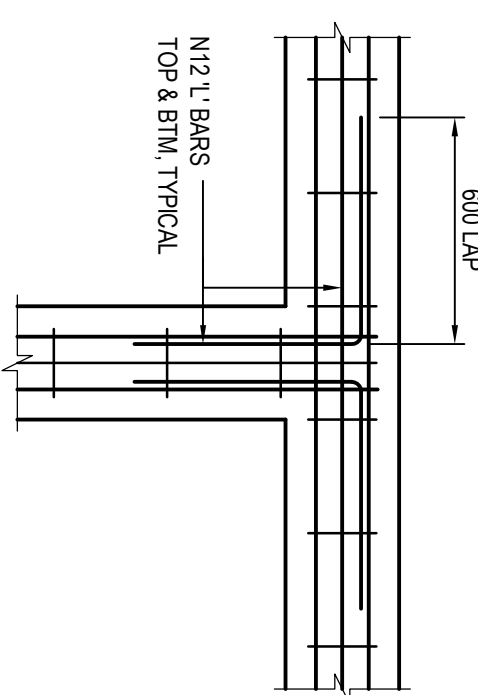
## FILTRATION BUILDING

**CHEMICAL RESISTANCE FLOOR COATING:**  
ALL EXPOSED CONCRETE SURFACES TO BE SEALED WITH SIKAGARD-62 SOLVENT FREE EPOXY COATING, APPLY A MINIMUM OF THREE COATS FOR CHEMICAL AND HIGH MECHANICAL RESISTANCES AS PER MANUFACTURERS SPECIFICATIONS.

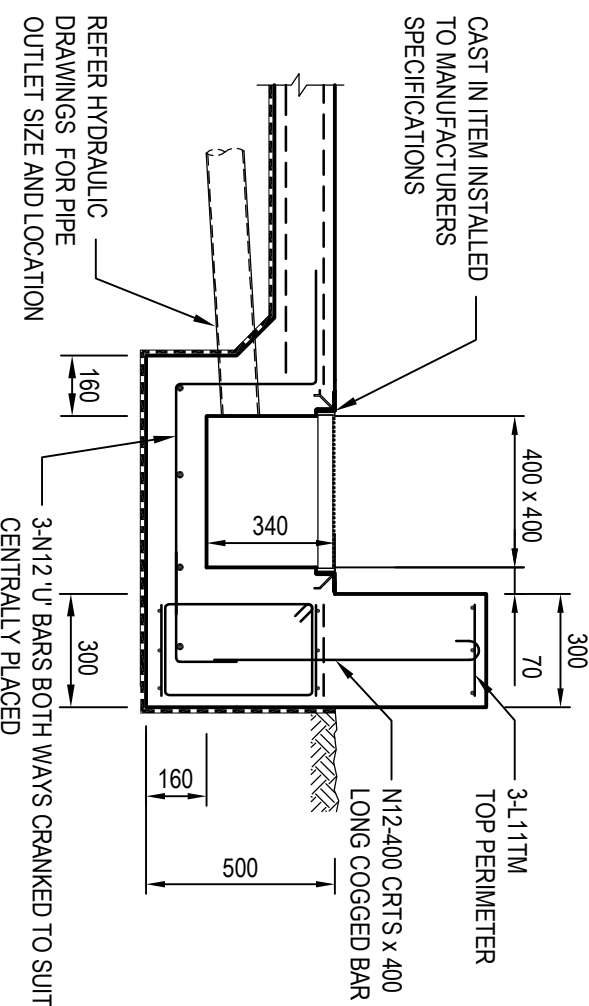
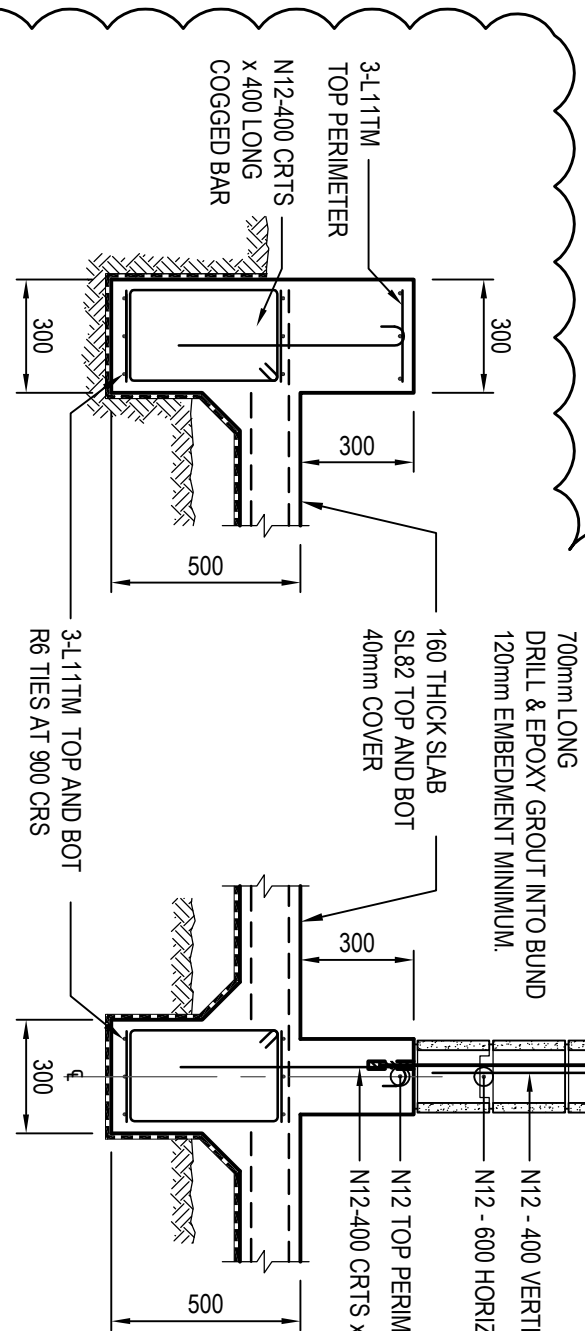
SB (TYPICAL)

## EB1 (TYPICAL)

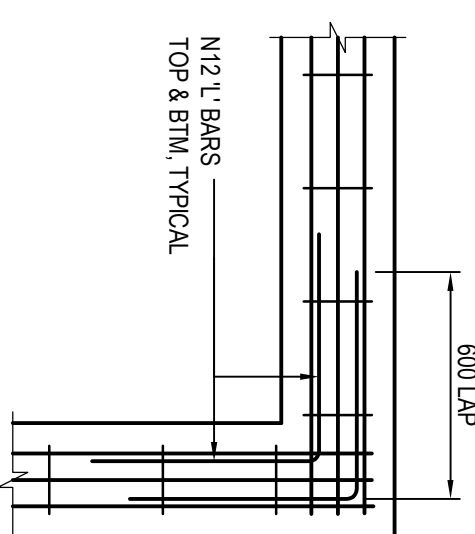
| STRIP FOOTING SCHEDULE |                           |               |        |          |      |
|------------------------|---------------------------|---------------|--------|----------|------|
| MARK NO                | SIZE<br>"DEPTH" x "WIDTH" | REINFORCEMENT |        | COMMENTS |      |
|                        |                           | TOP           | BOTTOM |          | LGSS |
| EB1                    | 500 x 300                 | 3-#11M        | 3-#11M | 66 -900  | **   |
| EB2                    | 500 x 300                 | 3-#11M        | 3-#11M | 66 -900  | **   |
| SB                     | 500 x 300                 | 3-#11M        | 3-#11M | 66 -900  | **   |



## SECTION 1



## TYPICAL FOOTING INTERSECTION DETAIL



# AS CONSTRUCTED

|  |  |  |  |
|--|--|--|--|
| Certified By: <b>HENRY &amp; HYMAS</b> |  | Client: <b>THOMAS &amp; COFFEY</b>                             |  |
| Company: <b>RODGE BROMHAM</b>          |  | 8 Burnham Street<br>Aldershot GU11 0YU                         |  |
| Engineer: <b>RODGE BROMHAM</b>         |  | Tel: 01246 202070<br>Fax: 01246 202074                         |  |
| Signature: <b>RODGE BROMHAM</b>        |  | E-mail: <a href="mailto:info@hcnl.com.au">info@hcnl.com.au</a> |  |
| Date: <b>18.02.14</b>                  |  | Tel: 01246 202070<br>Fax: 01246 202074                         |  |
| REC'D NO: <b>10155</b>                 |  | E-mail: <a href="mailto:info@hcnl.com.au">info@hcnl.com.au</a> |  |
| PREPARED BY: <b>RODGE BROMHAM</b>      |  | Tel: 01246 202070<br>Fax: 01246 202074                         |  |
| DESIGNED BY: <b>RODGE BROMHAM</b>      |  | E-mail: <a href="mailto:info@hcnl.com.au">info@hcnl.com.au</a> |  |
| CHECKED BY: <b>RODGE BROMHAM</b>       |  | Tel: 01246 202070<br>Fax: 01246 202074                         |  |
| DATE: <b>18.02.14</b>                  |  | E-mail: <a href="mailto:info@hcnl.com.au">info@hcnl.com.au</a> |  |
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