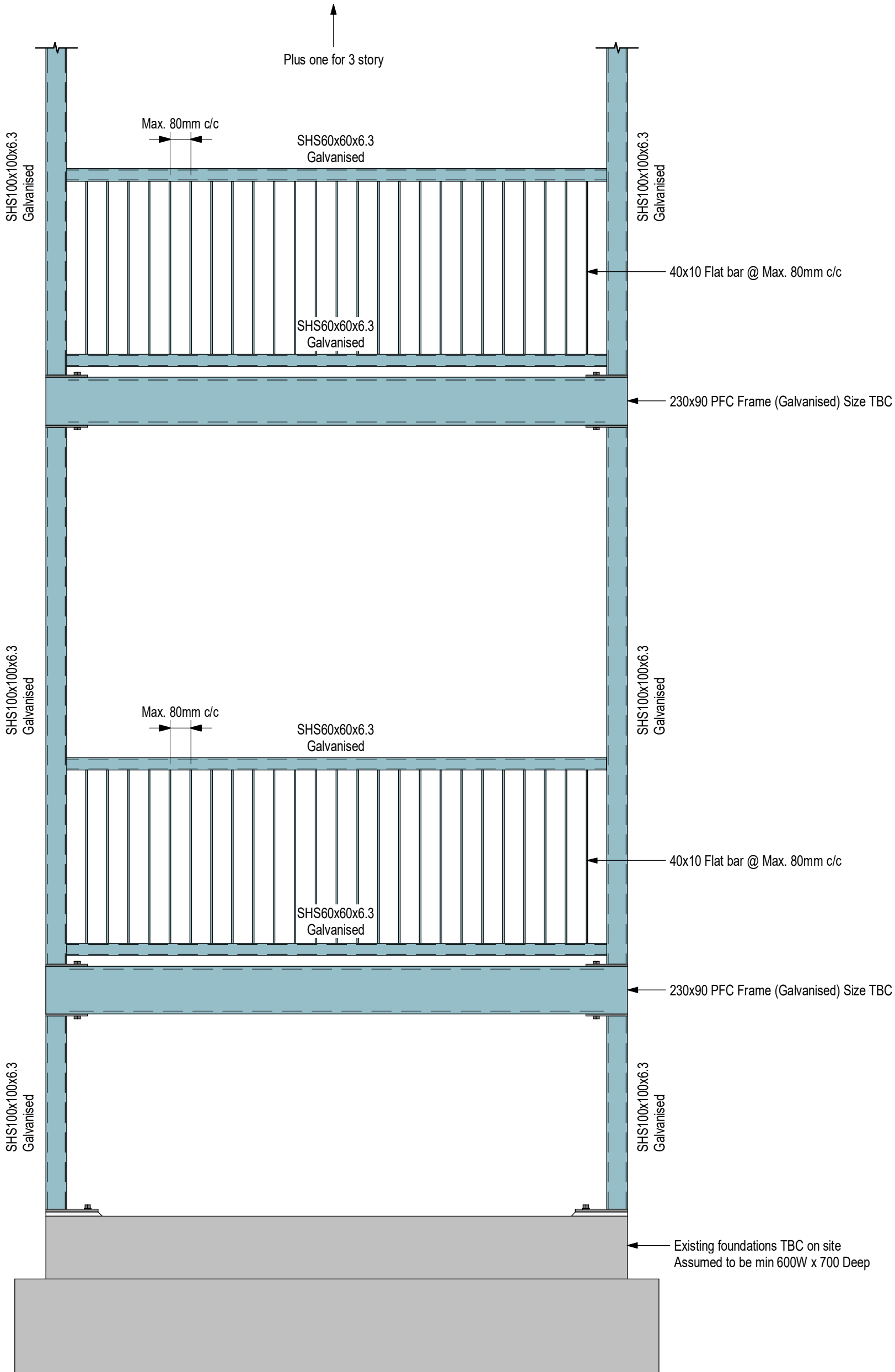
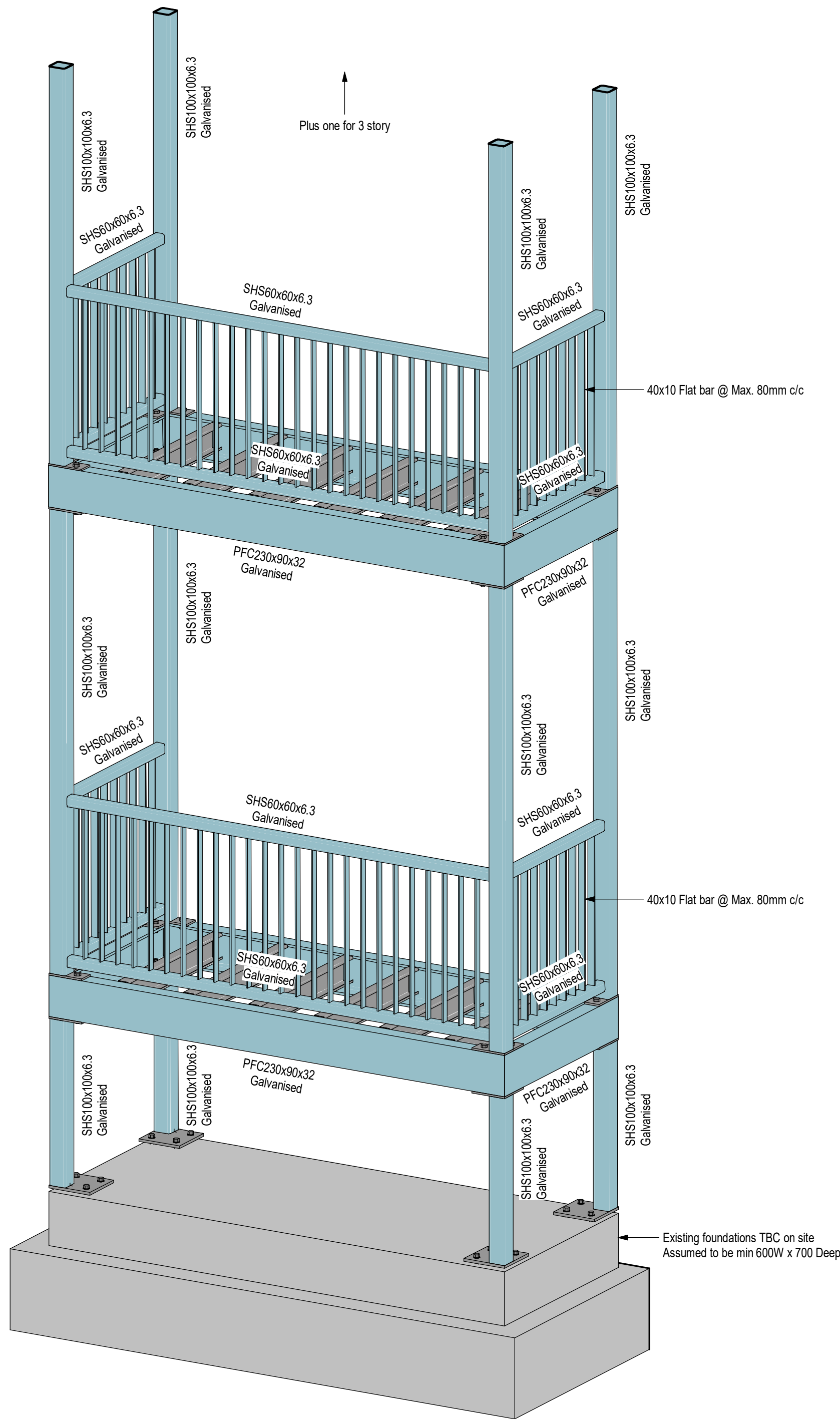
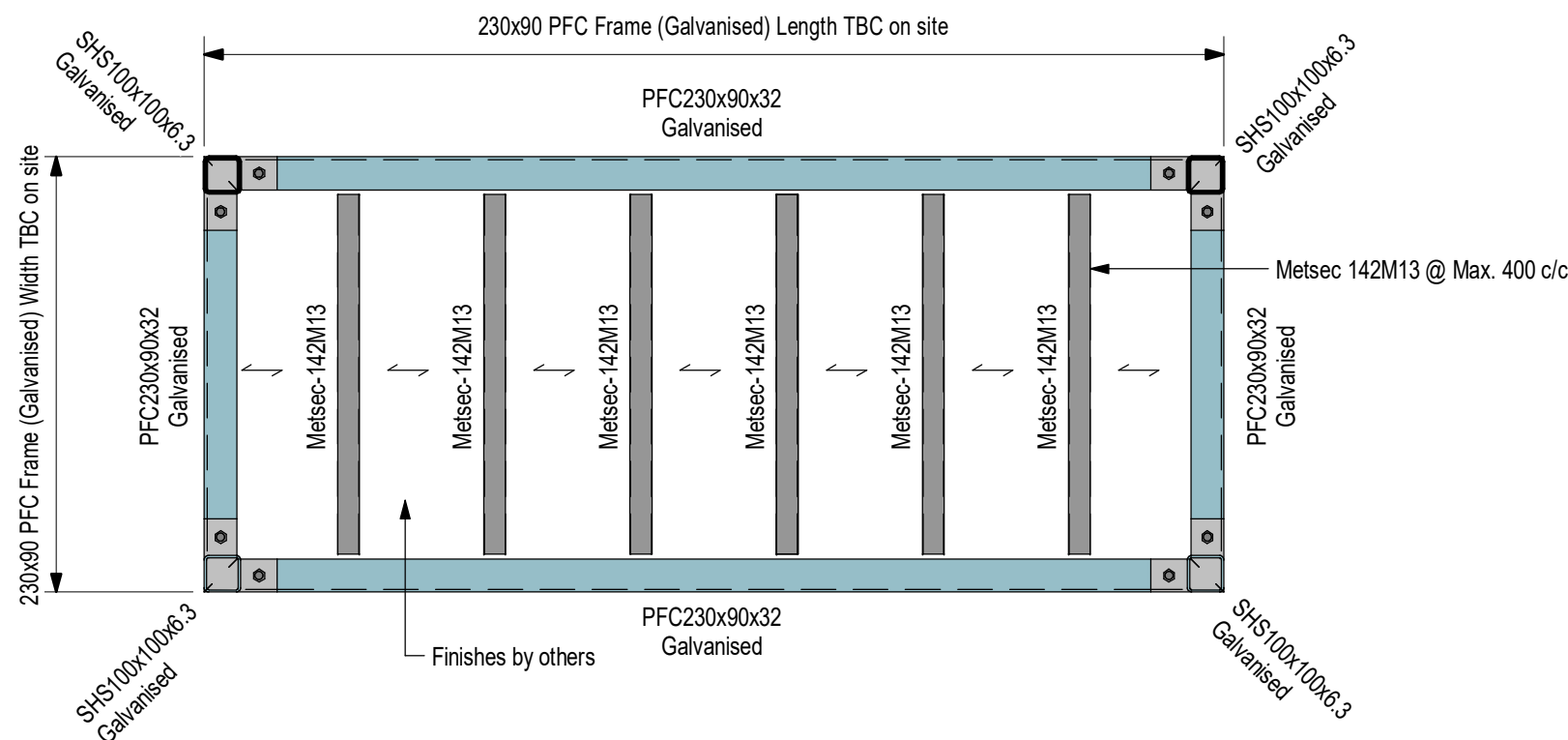




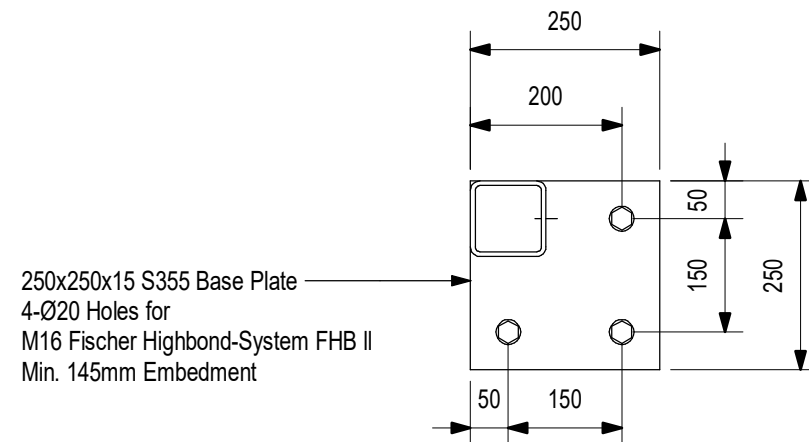
1 Typical Elevation
1 : 20



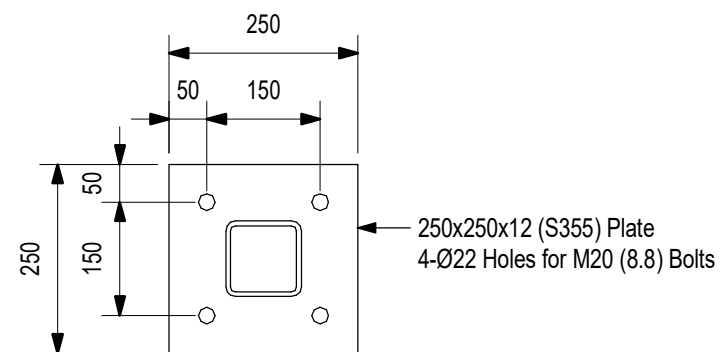
3 Typical 3D View
(Same for 2 story and 3 story)



2 Typical Plan View
1 : 20



4 Typical Base Plate Detail
1 : 10



5 Optional Splice 100x100x6.3 SHS Connection Detail
1 : 10

Steelwork Notes:

- Steel grades**
Steelwork grades unless noted otherwise to be a minimum of:

PRODUCT	PRODUCT STANDARD	STEEL GRADE	QUALITY
PLATES, FLATS INTERNAL	BS EN 10025	S355	JR
ROLLED SECTIONS- INTERNAL		S355	JR
PLATES, FLATS EXTERNAL	BS EN 10025	S355	JO
ROLLED SECTIONS- EXTERNAL		S355	JO
STRUCTURAL HOLLOW SECTIONS (HOT ROLLED)	BS EN 10210	S355	J2H
- Standards**
Steelwork fabrication to be in accordance with Eurocode: (latest edition) and the National Structural Steelwork Specification.
- Fabrication Drawings**
All dimensions to Architect's details and checked on site by Fabricator, prior to fabrication. The Steelwork Contractor is to submit fabrication and general arrangement drawings to GAP LTD allowing 14 days (10 working days) for comment prior to commencement of fabrication.
- Connections**
 - All connections to comprise 4no. M20(8.8) bolts unless noted otherwise.
 - All connections not detailed on GAP LTD's drawings are to be designed and detailed by the Steelwork Contractor in accordance with Eurocode 3: (latest edition) for the ultimate loadings advised by GAP LTD.
 - Steel Contractor designed connections shall be submitted to GAP LTD for approval, if requested, allowing 14 days (10 working days) for comment prior to commencement of fabrication.
 - Close tolerance holes required for splice connections.
- Stanchion Baseplates**
Unless noted otherwise on GAP drawings, all stanchion bases should be secured via steel baseplates. Where bearing onto reinforced concrete, baseplate bolts must be cast-into reinforced concrete in accordance with GAP details.
- Cleaning and Preparation**
 - Unless noted otherwise, all steelwork is to be shot blasted to SA2.5 or mechanically wire brushed to remove all surface contamination, rust and millscale, primed and painted min 75 microns (dft) epoxy zinc phosphate, prior to site delivery.
 - The Steelwork Contractor is to clean all mud and other deleterious materials from steelwork and make good all damaged areas of paintwork prior to handing over the structure to the Principal Contractor.
 - Great care should be taken to ensure the steel members are not marked by grinders etc. during fabrication and all weld splatters should be cleaned off.
 - The Principal Contractor is to apply the final coat of paint, compatible with any corrosion protection, to all exposed structural steelwork, to Architects Specification.
- Corrosion Resistance:**
 - Internal steelwork clad in brickwork/within cavity walls:**
As per 5.0 and painted by the Principal Contractor with 2no. coats of RIW bitumastic paint or equivalent.
 - External steelwork**
External steelwork to be hot-dip galvanized min 140 microns to BS EN ISO 1461. If paint finish required, suitable systems from BS EN ISO 12944 may be used.
 - Steelwork below ground level:**
Treated as appropriate (internal/external) and painted by the principal contractor with 2no. coats of RIW bitumastic paint, or equivalent, and encased in min. 100mm concrete.
- Stability**
 - The Steelwork Contractor is to provide temporary erection bracing to ensure a stable structure at all times during erection.
 - Walls to be tied to steel frame with stainless steel frame cramps with safety ends Tek screwed to steelwork at 450mm vertical centres. Pilot holes will be required where steel thickness exceeds 10mm. Provide sleeved ties where movement joints are specified on drawings.
- Craneage**
The Steelwork Contractor is to make allowance for any craneage or access requirements due to site location and dimensions.
- Modification on Site**
No site burning, welding or drilling will be permitted without the Engineers written permission.
- Thermal Breaks**
Architect to review steelwork and advise engineer where thermal breaks are required. Thermal breaks to be designed by specialist.
- Padstones**
Where steelwork bears onto masonry, unless otherwise stated, secure beam to 440mm long x 215mm high mass concrete padstone using 2no. M10(8.8) resin anchors.
- Fire Protection**
All steelwork is to be protected using an approved system such as plasterboard or intumescent paint (compatible with primer), in accordance with architectural drawings and specification for fire protection time. Fire boundaries to be advised.
- Execution Class**
Steelwork execution class min EXC2.

General Notes

- These drawings are to be read in conjunction with all relevant Architect's and Engineer's drawings and specifications.
- Except where specific dimensions are shown on these drawings, all setting out shall be in accordance with the architects drawings and specifications. Any discrepancy between these drawings and the architects drawings or the actual site dimensions should be referred to the engineer immediately and confirmed in writing. The contractor is responsible for the accuracy of all dimensions and the setting out.
- All materials and workmanship to be in accordance with relevant British Standards and recognised codes of practice.
- Do not scale from these drawings. If in doubt, ask.
- All dimensions are in millimetres unless noted otherwise.
- All proprietary materials to be in accordance with manufacturers specifications and to Engineer's approval.
- All proprietary CDP elements shown on the drawings should be treated as indicative and are subject to detailed design by specialist manufacturer/supplier. The contractor should make suitable allowance for third party design/detailing and potential impact on the permanent work design.

NOTE:
Architectural details & locations shown indicative only.
Refer to architects drawing for detailed design & dimensions.
Final set out and location of all steel members is subject to confirmation of all dimensions on site prior to fabrication.

ALL STEELWORK TO BE BLAST-
CLEANED TO SA 2.5 AND HOT DIPPED
GALVANISED TO 140 MICRONS

It is assumed that existing roof
over balconies is removed and
re-built once balcony is in place

P1	Preliminary Issue	19.03.2020	AP
Rev.	DESCRIPTION	DATE	BY

Status

PRELIMINARY

GAP LTD
GODSELL & ARNOLD
PARTNERSHIP LTD

Consulting Civil and
Structural Engineers

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Tel 01202 600 900

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Client

Vivid Housing Ltd

Job Title

Bellinger House
Balcony Structures

Drawing Title

Balcony Steelwork Details

Scale	As indicated	Date	19.03.2020
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Drawn	AP	Checked	MC	Approved	-
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Doc No.

Drg No.	Rev.
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