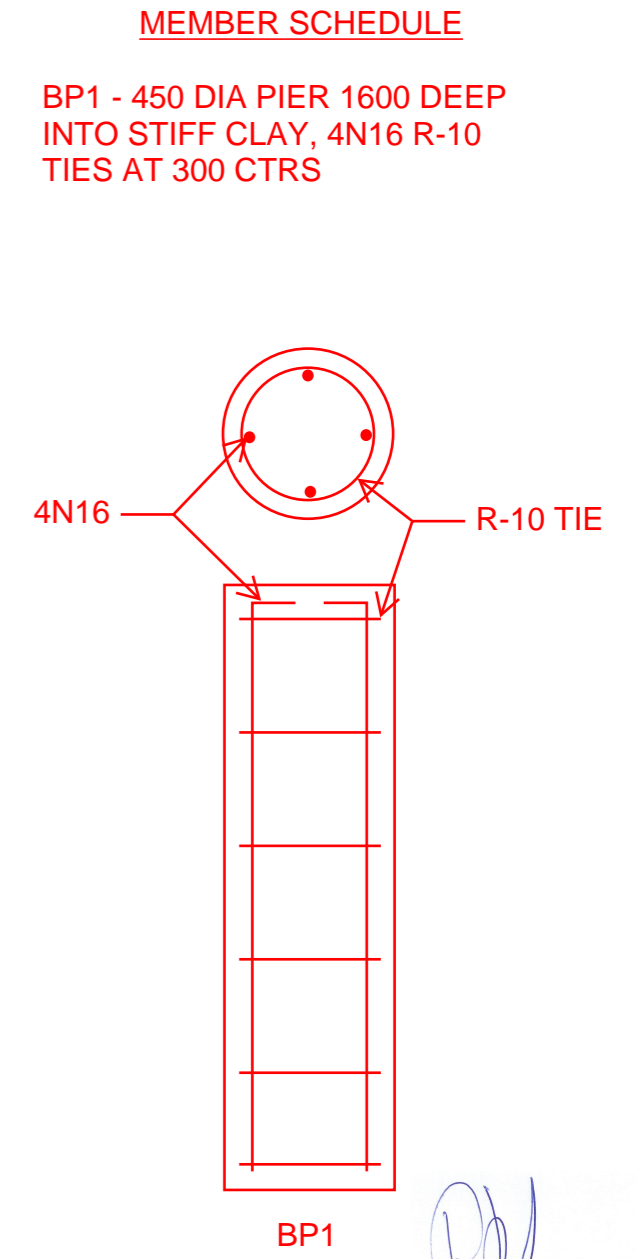
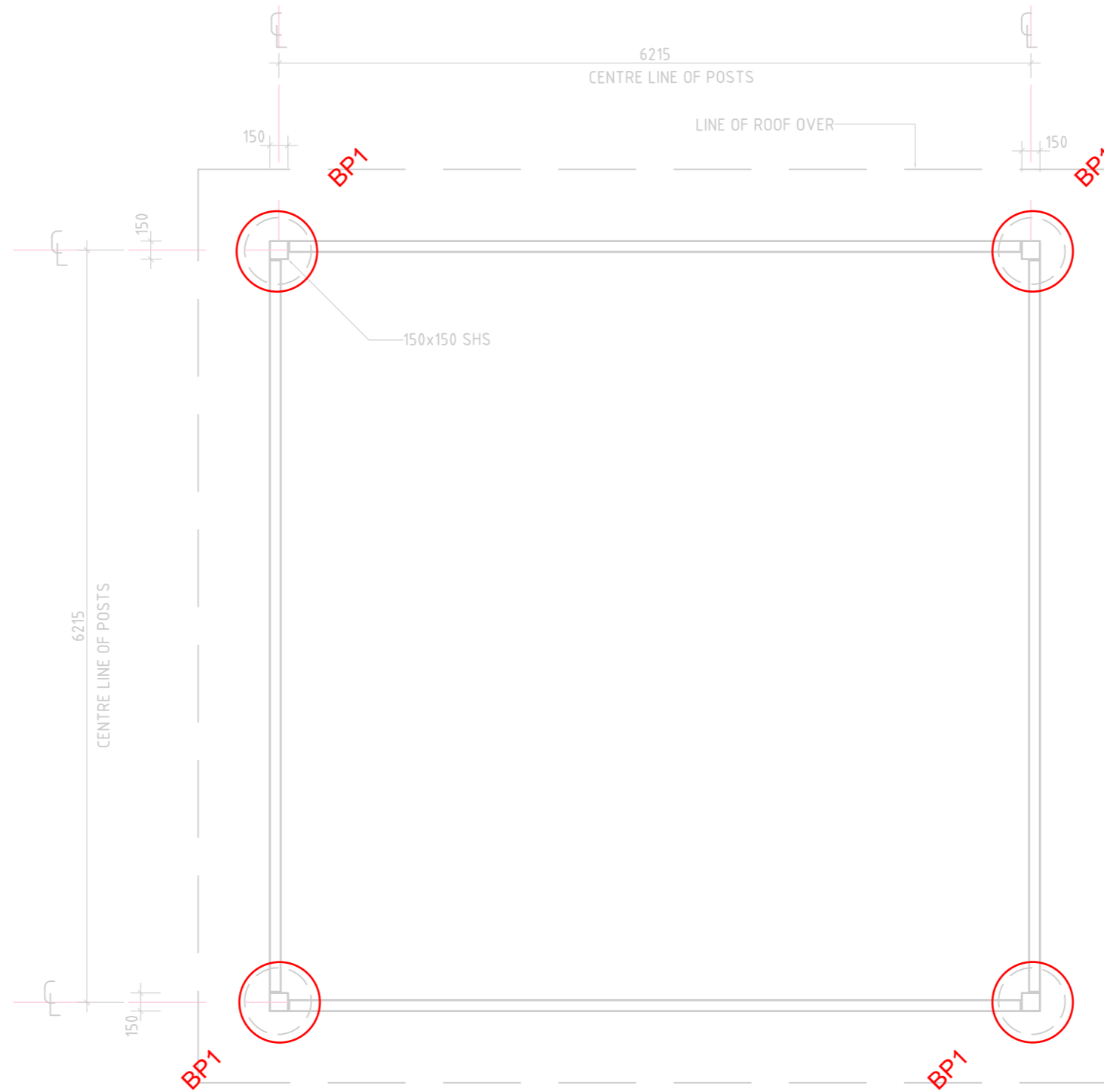



FOUNDATIONS

- F1. THIS FOOTING DESIGN HAS BEEN PREPARED BASED ON INFORMATION PROVIDED IN THE FOLLOWING GEOTECHNICAL REPORT...
PREPARED BY
REPORT DATED
IT IS THE BUILDERS' RESPONSIBILITY TO MAKE REFERENCE TO THIS REPORT AND ITS RECOMMENDATIONS.
- F2. THE BUILDER MUST BE AWARE THAT FOUNDATIONS MAY VARY BETWEEN TEST LOCATIONS REFERRED TO IN THE GEOTECHNICAL REPORT. IF FOUNDATION CONDITIONS DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT IN PERFORMING EARTHWORKS OR FOOTING EXCAVATION, THEN EDGE CONSULTING ENGINEERS MUST BE NOTIFIED IN WRITING IMMEDIATELY AS AN AMENDMENT TO THE SITE CLASSIFICATION AND/OR DESIGN MAY BE REQUIRED.
- F3. THIS DESIGN HAS BEEN BASED ON THE ASSUMPTION THAT THE FOUNDING MATERIAL SATISFIES THE MINIMUM BEARING CAPACITY NOMINATED ON THE DRAWINGS. FURTHERMORE, THE PROPOSED LOCATION OF THE STRUCTURE IS NOT SUBJECT TO POSSIBLE GEOTECHNICAL OR OTHER SLOPE INSTABILITY PROBLEMS.
- F4. FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE.
- F5. ALL LOOSE MATERIALS AND WATER TO BE CLEANED OUT OF THE FOUNDATION. FORMWORK TO BE USED WHERE THE SIDES OF THE FOUNDATION ARE NOT STABLE.
- F6. A 50mm MINIMUM BLINDING LAYER SHOULD BE APPLIED TO THE BASE OF ALL FOUNDATIONS IMMEDIATELY AFTER VERIFICATION OF THE BEARING CAPACITY BY THE GEOTECHNICAL ENGINEER. WHERE THE FOUNDING MATERIAL IS DEEPER THAN REQUIRED FOR THE FOOTING, THE EXCAVATION IS TO BE BACKFILLED WITH A WEAK MIX CONCRETE (N10) TO THE UNDERSIDE OF THE FOOTING.
- F7. UNLESS OTHERWISE APPROVED BY EDGE CONSULTING ENGINEERS, THE LIMITATIONS OF EXCAVATIONS NEAR FOOTINGS SHALL BE AS FOLLOWS...
-
- EXCAVATION NEAR EXISTING FOOTINGS SHALL NOT EXTEND BELOW FOUNDATION LEVEL WITH THE APPROVAL OF EDGE CONSULTING ENGINEERS.
- F8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ANY EXCAVATION IN A STABLE CONDITION WITHOUT ADVERSELY AFFECTING SURROUNDING PROPERTY, INCLUDING SERVICES. THIS INCLUDES OBTAINING ALL NECESSARY APPROVALS FOR SHORING AND ANCHORING SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND LOCATING ALL EXISTING UNDERGROUND SERVICES PRIOR TO ANY EXCAVATION COMMENCING.
- F9. DEPTHS SPECIFIED FOR FOOTINGS ARE MINIMUM DIMENSIONS ONLY. GREATER DEPTH MAY BE NECESSARY TO ACHIEVE SPECIFIED FOUNDING BASE.
- F10. IF THE MATERIAL UNDERLYING THE SITE IS EXPANSIVE CLAY, PRECAUTIONS ARE TO BE TAKEN TO AVOID MOISTURE VARIATIONS.
IF THE MATERIAL UNDERLYING THE SITE IS EXPANSIVE CLAY, THE FOLLOWING PRECAUTIONS ARE TO BE TAKEN TO AVOID MOISTURE VARIATIONS.
- AVOID LANDSCAPE PLANTING CLOSE TO FOOTINGS.
 - PROMPT REPAIR OF LEAKING SERVICES.
 - FINISHED LEVELS SHALL ENSURE SURFACE WATER CAN NOT POND AGAINST FOOTING.




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DRAWING
FOOTING LAYOUT



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REVISION DETAILS			
NO.	DESCRIPTION	DATE	NAME





ENGINEERS AUSTRALIA Professional Engineers MEMBER

Job No.

SCALE: 1:100 **DATE:** 9/8/24

DESIGNED:

DRAWN: AZHAR

CHECKED: PD

Rev.

Dwg No.

S1

STRUCTURAL STEEL

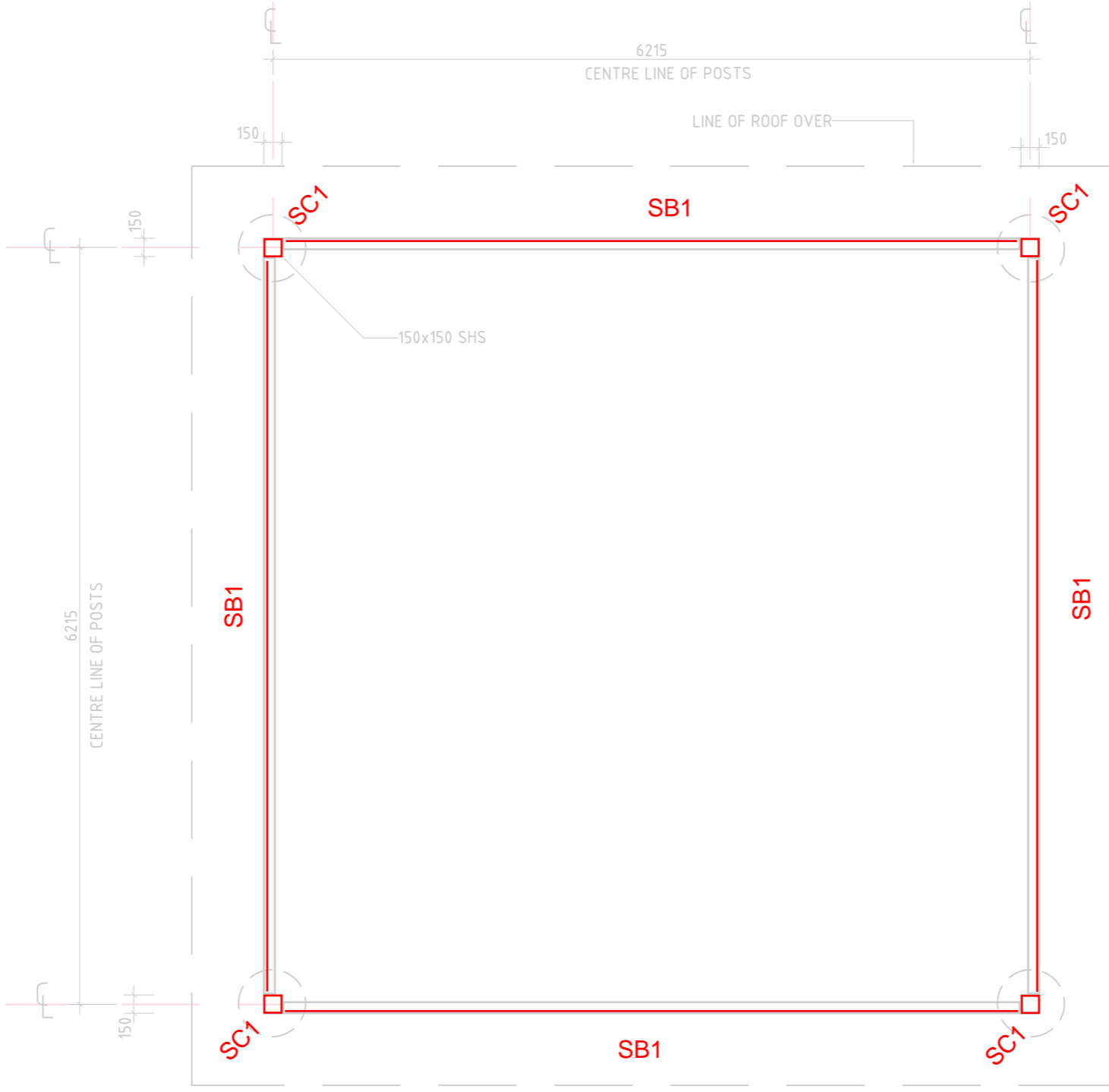
- S1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100 AND AS 1554 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- S2. THREE (3) COPIES OF WORKSHOP FABRICATION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AT LEAST 7 DAYS PRIOR TO COMMENCEMENT OF FABRICATION.
- S3. BOLT DESIGNATION - TYPICAL U.N.O.

BOLT TYPE	COMMENTS
4.6/S.....	COMMERCIAL BOLTS OF GRADE 4.6 TO AS 1111 SNUG TIGHTENED.
8.8/S.....	HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252 SNUG TIGHTENED
8.8/TB.....	HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252 FULLY TENSIONED TO AS 1511 AS A BEARING JOINT.
8.8/TF.....	HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252 FULLY TENSIONED TO AS 1511 AS A FRICTION JOINT WITH FACING SURFACES LEFT UNCOATED.

- S4. UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE M16 GRADE 8.8/S. NO CONNECTION SHALL HAVE LESS THAN 2.M16 8.8/S.
- S5. TB AND TF BOLTS SHALL BE INSTALLED USING APPROVED LOAD INDICATING WASHERS.
- S6. UNLESS NOTED, ALL WELDS SHALL BE 6mm CONTINUOUS FILLET (NOTED CFW). CATEGORY GP USING E41XX ELECTRODES. BUTT WELDS SHALL BE COMPLETE PENETRATION BUTT WELDS TO AS 1554.
- S7. UNLESS NOTED, ALL GUSSET PLATES SHALL BE 10mm.
- S8. CONCRETE ENCASED STEELWORK SHALL BE UNPAINTED, FREE FROM ALL LOOSE RUST, LOOSE MILL SCALE, DIRT, OIL, GREASE ETC AND THE ENCASEMENT CONCRETE STRENGTH SHALL BE MINIMUM OF 25 MPa AND COVER 65 mm. CONCRETE ENCASEMENT SHALL BE CENTRALLY REINFORCED WITH 5mm WIRE TO AS 1303 OR 6mm STRUCTURAL GRADE BARS AS AS 1302 AT 150mm PITCH.
- S9. ALL STEELWORK SHALL BE SECURELY TEMPORARILY BRACED AS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.
- S10. ALL STEELWORK THAT WILL BE EXPOSED TO VIEW SHALL HAVE WELD SPATTER, FLUX, DAGS AND BURRS REMOVED AND ALL SEALING AND BUTT WELDS GROUND FLUSH, PRIOR TO SURFACE PREPARATION AND COATING.
- S11. THE CONTRACTOR SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL AND TIMBER AND OTHER ELEMENTS TO STEEL WHETHER OR NOT DETAILED IN THE DRAWINGS.
- S12. STRUCTURAL STEELWORK NOT ENCASED IN CONCRETE SHALL HAVE THE FOLLOWING SURFACE TREATMENT IN ACCORDANCE WITH THE SPECIFICATION.

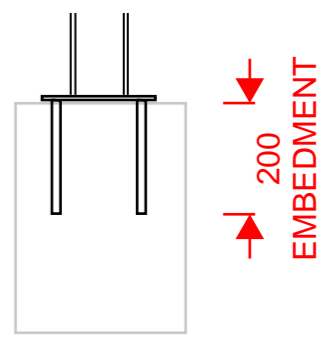
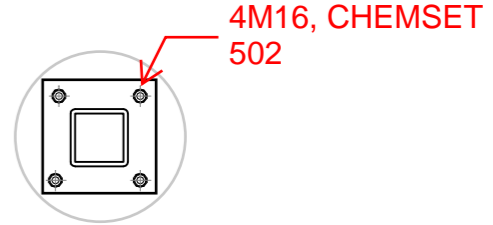
ELEMENT	SURFACE CLEANING	PRIMING	FINISH
EXPOSED STEELWORK (INTERNAL)	SANDBLAST TO CLASS 2.5	75-m ZINC PHOSPHATE	SEE ARCHITECTS SPECIFICATION
NON EXPOSED STEELWORK	POWER WIRE BRUSH	75-m ZINC PHOSPHATE	SEE ARCHITECTS SPECIFICATION
EXPOSED STEELWORK (EXTERNAL)	SANDBLAST TO CLASS 1.5	HOT DIP GALVANISED	---

- S13. ALL STEELWORK SHALL BE GRADE 300 GENERALLY AND GRADE 450 FOR COLD FORMED LIGHT GRADE SECTIONS U.N.O.
- S14. ALL HOLDING DOWN BOLTS SHALL BE EITHER COMMERCIAL BOLTS OR BE MADE FROM MILD STEEL BARS WITH A MINIMUM f_{sy} OF 230 MPa. U.N.O.
- S15. TESTING OF WELDS SHALL BE IN ACCORDANCE WITH THE SPECIFICATION.
- S16. STEELWORK U.N.O. SHALL BE BLASTED TO CLASS 2.5 AND GIVEN TWO COATS OF ZINC PHOSPHATE PRIMER.
- S17. ALL FULLY SEALED HOLLOW OR BOX SECTIONS CONTAINING TOTALLY ENCLOSED AREAS MUST BE VENTED NEAR EACH END WHEN THE MEMBER IS TO BE GALVANISED. THE MINIMUM DIAMETER OF THE VENT HOLES IS TO BE 25% OF THE INTERNAL DIAMETER OR DIAGONAL DIMENSION FOR SECTIONS UP TO 150mm. FOR LARGER MEMBERS VENTING DETAILS SHALL BE PROVIDED BY THE GALVANISER FOR THE APPROVAL OF THE ENGINEER PRIOR TO THE GALVANISING.
- S18. CIRCULAR HOLLOW SECTIONS (CHS) SHALL BE GRADE 250 IN ACCORDANCE WITH AS 1163 UP TO 165.1mm OUTSIDE DIAMETER. U.N.O.



MEMBER SCHEDULE

- SC1 - 150X4 SHS
- SB1 - 250 PFC



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REVISION DETAILS			
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PROJECT: BLOCK 9 SECTION 36 O'CONNOR
 CLIENT: JOHNATHAN DRURY

DRAWING: COLUMN AND BEAM LAYOUT

Job No.	Rev.
SCALE: 1:100	DATE: 9/8/24
DESIGNED: AZHAR	Dwg No. S2
DRAWN: AZHAR	
CHECKED: PD	