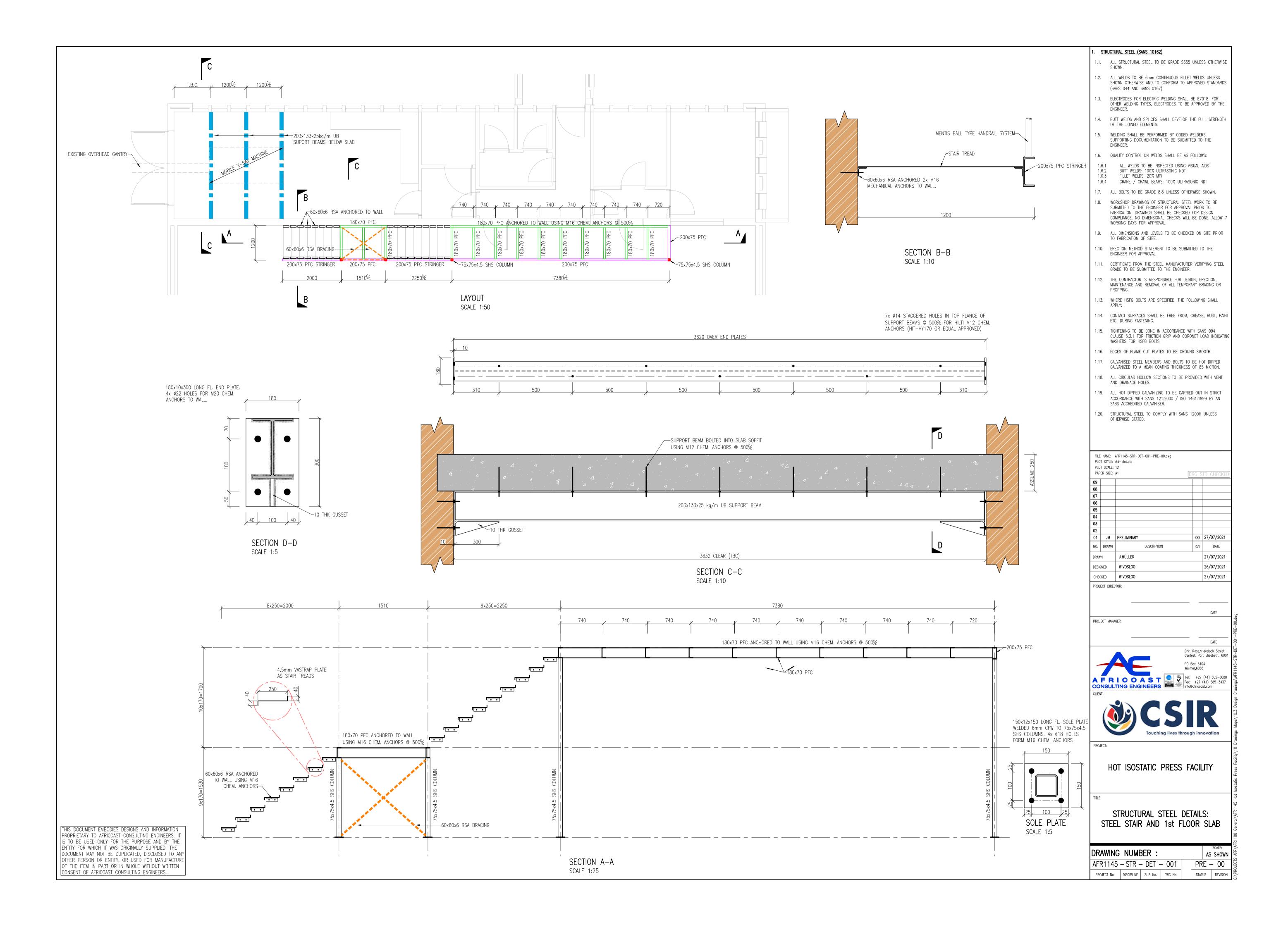
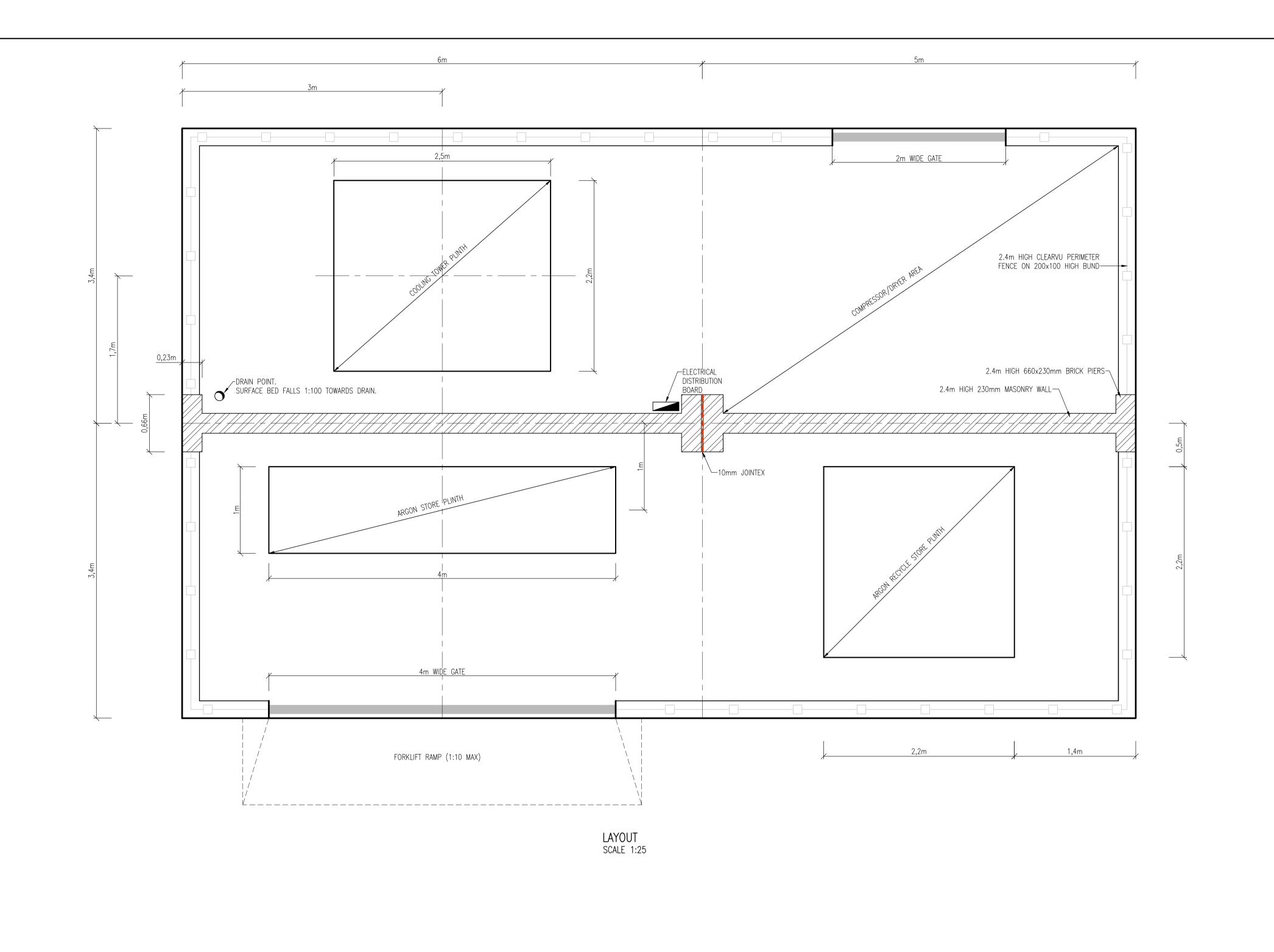
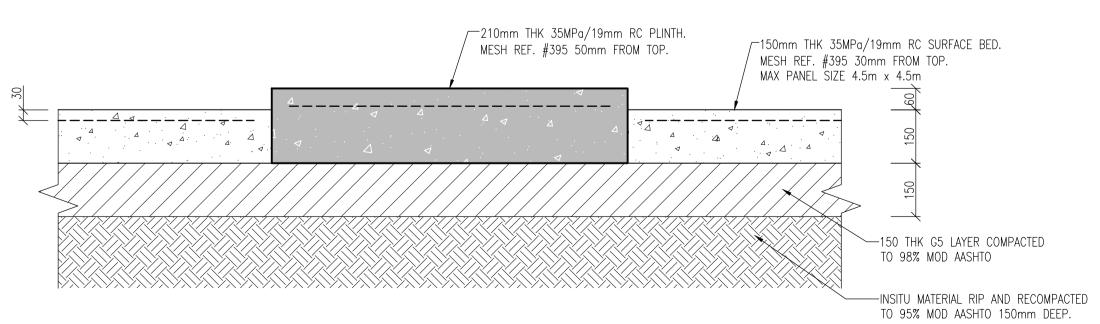




6.2 Annexure B - Civil/ Structural Drawings







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GENERAL NOTES

- 1) DRAWINGS TO BE READ IN CONJUNCTION WITH THE MECHANICAL ENGINEERING DRAWINGS.
- 2) INCASE OF ANY DISCREPANCIES BETWEEN DIFFERENT SPECIFICATIONS THE PRIORITY WILL BE AS FOLLOWS:
- A) DRAWINGS B) PROJECT AND SPECIAL SPECIFICATIONS
- C) STANDARD SPECIFICATION (SANS 1200) 3) THE NUMBER, POSITION AND DETAIL OF CONSTRUCTION
- JOINTS (IF ANY), MUST BE APPROVED BY ENGINEER. 4) ALL LOADS IN ACCORDANCE WITH SANS 10160

BE POINTED OUT TO THE ENGINEER FOR CLARIFICATION.

- PERMISSIBLE SUPERIMPOSED LOADS
- 5) DIMENSIONS MAY NOT BE SCALED. 6) ANY DISCREPANCY OR DIMENSIONS NOT SHOWN MUST
- **CONCRETE NOTES:**

1) ALL CONCRETE TO BE IN ACCORDANCE WITH SANS

- 1200 G AND CLAUSE PSG OF THE PROJECT
- 2) CONCRETE TO BE STRENGTH CONCRETE 30/19 MPA. 3) WIRE CONNECTORS THROUGH CONCRETE SHALL NOT BE ALLOWED. ALL FERRULES OR OTHER FASTENING DEVICES SHALL PRESENT A NEAT AND UNIFORM
- 4) ALL FOUNDATIONS MUST BE INSPECTED AND APPROVED
- BY THE ENGINEER BEFORE ANY CONCRETE IS CAST. 5) ALL EXPOSED CONCRETE SURFACES ARE OFF-SHUTTER FINISHES.
- 6) ALL EXPOSED CONCRETE CORNERS MUST BE CHAMFERED 20x20mm.
- 7) CONCRETE CUBES SHALL BE MADE CURED AND TESTED ACCORDING TO SANS 1200G, SECTION 7. A SAMPLE SHALL CONSIST OF 6 CUBES AND SHALL BE TAKEN FOR EACH INDIVIDUAL CONCRETING OPERATIONS AND AT LEAST ONE PER 50m³ CONCRETE OF THE SAME OPERATION CAST. 3 CUBES SHALL BE TESTED AT 7
 - DAYS AND 3 AT 28 DAYS.

REINFORCEMENT NOTES: 1) STRENGTH OF REINFORCEMENT: REFERENCE TYPE STRENGTH (MPa) 250

- 2) CONCRETE COVER 50mm (UNLESS OTHERWISE INDICATED)
- 3) ALL REINFORCEMENT TO BE CHECKED AND APPROVED

450

- BY THE ENGINEER PRIOR TO CASTING OF CONCRETE. 4) ALL BENDING OF REINFORCEMENT TO BE IN
- ACCORDANCE WITH SANS 282 5) ALL PLACING OF REINFORCEMENT TO BE IN
- ACCORDANCE WITH SANS 1200G 6) MINIMUM SPLICE LENGTHS: 50 x Ø DIA
- 7) AT LEAST 48 HOURS NOTICE TO BE GIVEN TO THE ENGINEER FOR REINFORCEMENT INSPECTION
- 8) UNDER NO CIRCUMSTANCES MAY REINFORCING BE

WELDED.

FILE NAME: AFR1145-STR-DET-002-PRE-00.dwg PLOT STYLE: std-plot.ctb PLOT SCALE: 1:1 PAPER SIZE: A1 00 27/07/2021 01 JM PRELIMINARY NO. DRAWN DESCRIPTION REV DATE J.MÜLLER 27/07/2021 DRAWN ESIGNED W.VOSLOO 26/07/2021 CHECKED W.VOSLOO 27/07/2021

PROJECT DIRECTOR:

PROJECT MANAGER:

DATE

DATE



A F R I C O A S T

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HOT ISOSTATIC PRESS FACILITY

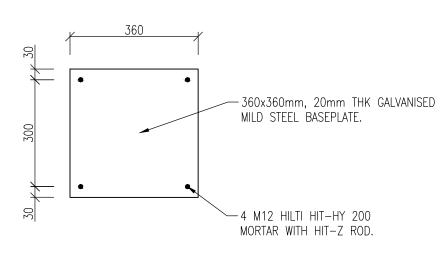
PLINTH LAYOUT AND TYPICAL SECTION

DRAWING NUMBER: AS SHOWN AFR1145 – STR – DET – 002 PRE - 00 PROJECT No. DISCIPLINE SUB No. DWG No. STATUS REVISION

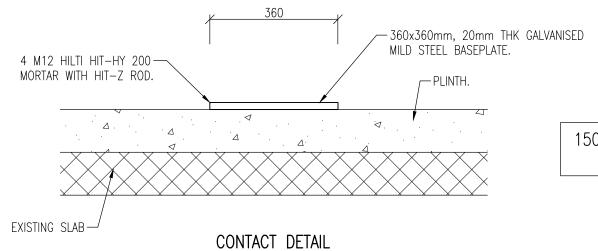
1. STRUCTURAL STEEL (SANS 10162)

- ALL STRUCTURAL STEEL TO BE GRADE S355 UNLESS OTHERWISE SHOWN.
- ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS UNLESS SHOWN OTHERWISE AND TO CONFORM TO APPROVED STANDARDS (SABS 044 AND SANS 0167).
- ELECTRODES FOR ELECTRIC WELDING SHALL BE E7018. FOR OTHER WELDING TYPES. ELECTRODES TO BE APPROVED BY THE ENGINEER.
- BUTT WELDS AND SPLICES SHALL DEVELOP 1.4. THE FULL STRENGTH OF THE JOINED
- WELDING SHALL BE PERFORMED BY CODED WELDERS, SUPPORTING DOCUMENTATION TO BE SUBMITTED TO THE ENGINEER.
- QUALITY CONTROL ON WELDS SHALL BE AS FOLLOWS:
- 1.6.1. ALL WELDS TO BE INSPECTED USING VISUAL AIDS
- 1.6.2. BUTT WELDS: 100% ULTRASONIC NDT
- 1.6.3. FILLET WELDS: 20% MPI
- CRANE / CRAWL BEAMS: 100% 1.6.4. ULTRASÓNIC NDT
- ALL BOLTS TO BE GRADE 8.8 UNLESS OTHERWISE SHOWN.
- WORKSHOP DRAWINGS OF STRUCTURAL STEEL WORK TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. DRAWINGS SHALL BE CHECKED FOR DESIGN COMPLIANCE, NO DIMENSIONAL CHECKS WILL BE DONE. ALLOW 7 WORKING DAYS FOR APPROVAL.
- ALL DIMENSIONS AND LEVELS TO BE 1.9. CHECKED ON SITE PRIOR TO FABRICATION OF
- ERECTION METHOD STATEMENT TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 1.11. CERTIFICATE FROM THE STEEL MANUFACTURER VERIFYING STEEL GRADE TO BE SUBMITTED TO THE ENGINEER.
- 1.12. THE CONTRACTOR IS RESPONSIBLE FOR DESIGN, ERECTION, MAINTENANCE AND REMOVAL OF ALL TEMPORARY BRACING OR
- 1.13. WHERE HSFG BOLTS ARE SPECIFIED, THE FOLLOWING SHALL APPLY:
- CONTACT SURFACES SHALL BE FREE FROM, GREASE, RUST, PAINT ETC. DURING FASTENING.

- 1.15. TIGHTENING TO BE DONE IN ACCORDANCE WITH SANS 094 CLAUSE 5.3.1 FOR FRICTION GRIP AND CORONET LOAD INDICATING WASHERS FOR HSFG BOLTS.
- 1.16. EDGES OF FLAME CUT PLATES TO BE GROUND SMOOTH.
- GALVANISED STEEL MEMBERS AND BOLTS TO BE HOT DIPPED GALVANIZED TO A MEAN COATING THICKNESS OF 85 MICRON.
- ALL CIRCULAR HOLLOW SECTIONS TO BE PROVIDED WITH VENT AND DRAINAGE HOLES.
- ALL HOT DIPPED GALVANIZING TO BE CARRIED OUT IN STRICT ACCORDANCE WITH SANS 121:2000 / ISO 1461:1999 BY AN SABS ACCREDITED GALVANISER.
- STRUCTURAL STEEL TO COMPLY WITH SANS 1200H UNLESS OTHERWISE STATED.
- 1.21. IF PLINTH IS SLOPED, GAP BETWEEN BASEPLATE AND PLINTH TO BE GROUTED.
- M12 HD BOLTS TO BE USED ON BASEPLATE.
- 1.23. MINIMUM EDGE DISTANCE OF 30mm FOR THE BASE PLATE MUST BE MAINTAINED.



CONTACT DETAIL SCALE 1:10



150KPa BEARING **PRESSURE**

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DRAWING INUMBER CODES

DISCIPLINE WAT WATER

SEW SEWER RDS ROADS SW STORM WATER ELE ELECTRICAL STRUCTURAL MEC MECHANICAL

EW TRA TRANSPORTATION SUBDIVISION No.

LONGSECTION CROSS SECTION

FARTHWORKS

- DET DETAILS GA GENERAL
- ARRANGEMENT SP SITE & KEY

STATUS

TEN TENDER PRE PRELIMINARY CONSTRUCTION AS RIIIT

DRAWING NUMBER : AS SHOWN PRE - 00

STATUS REVISION

AFR1145 — STR — DET — 003 PROJECT No. DISCIPLINE SUB No. DWG No.

DESIGNED W.VOSLOC 04 CHECKED 03 W.VOSLOC 02 SN PRELIMINARY 00 07/09/2021 DRAWN NO. DRAWN REV DATE S.NOWALA



PROJECT DIRECTOR PROJECT MANAGER

SCALE 1:10

CONTACT/BASE PLATE SIZE