GENERAL STRUCTURAL NOTES, APPLICABLE THROUGHOUT

These notes shall be read in conjunction with all relevant drawings of the Engineer and all applicable Project and Standardized Specifications mentioned below. In the event of any discrepancy between these notes and the specifications these notes shall take precedence and shall govern. The Engineers' drawings shall be read in conjunction with all relevant architects, consultants and specialists drawings. Discrepancies shall be referred to the Engineer prior to construction.

1. CONCRETE

All concrete shall conform to the requirements of the latest edition of SABS 1200 G excluding clause 8.

1.1 The type and origin of aggregate and cement shall be submitted to the Engineer for approval prior to construction.

1.2 CONCRETE SPECIFICATIONS

Position	MPa 28 days	Stone mm	Cemen
Foundations	25	19	OPC
Walls, shafts	30	19	OPC
Columns	30	19	OPC
Slabs and surface bed slabs	30	19	OPC
Beams	30	19	OPC

1.3 No pumping of concrete shall be allowed without prior approval from the Engineer.

1.4 All concrete slabs shall be cured using a finishable curing compound. To be submitted to Engineer for approval.

1.5 The position and method of forming of all construction joints shall be submitted to the Engineer for approval prior to construction.

1.6 Concrete cover to reinforcement:

Foundations: 50mm with shuttering, 75mm without shuttering.
Columns, walls, beams: 30mm to stirrups
Slabs : 30mm

1.7 The degree of accuracy shall be Grade III for foundations and Grade II for all other concrete work, as per SABS 1200G.

1.8 The standard of concrete finish shall be to the Architects specification.

1.9 Generally one concrete test cube shall be tested at 7 days and three cubes at 28 days. The results shall immediately be forwarded to the Engineers. One set of test cubes has to be made per 50m³ of concrete or part thereof daily of every type cast.

1.10 Removal of form work in normal to hot conditions:
Beam sides, walls, unloaded columns: - 1 day
Slabs and quickstrip coffer slabs: - 4 days
Beam soffits, coffer slab soffits with props left: - 7days
Slab props: - 10 days
Beam props, cantilever props: - 14 days

1.11 All reinforcement must be approved by the Engineer before concrete is cast. The Engineer shall be given 24 hours advance notice of an inspection. Inspections to be held on same day of site meetings, prior to meeting. Inspection will only be done

if all steel is properly fixed, spacer blocks positioned, shuttering cleaned out and reinforcement checked by the contractor.

1.12 Sawn joints in surface beds shall be cut within 48 hours after casting concrete.

1.13 No kickers to be cast for columns and walls.

2. FOUNDATIONS AND FOUNDATION MATERIALS

2.1 Clear building area of debris and vegetation.

2.2 All founding depths shall be inspected and confirmed by the Engineer on site. Also see sketches 1, 2 & 3 on this sheet.

2.3 All foundation excavations shall be submitted for approval to the Engineer before any concrete may be cast.

2.4 Scarify in-situ material in excavations 150mm deep and re-compact to 95% Mod AASHTO.

2.5 DCP-Tests are to be performed on random positions as indicated by Engineer.

2.6 Re-compact above foundations with approved stockpiled in-situ material consisting of at least G7 material compacted to 95% Mod AASHTO in layers not exceeding 150mm.

2.7 Material to be used for re-compaction or fill to contain no rubble or plant material.

2.8 Cast 15MPa, 50mm thick blinding under all reinforced foundations.

2.9 All foundations are located centrally under columns or walls unless shown otherwise.

2.10 Design bearing pressure = 100kPa

3. CONCRETE-GENERAL

3.1 Retaining walls with concrete slabs over: Back filling to be done only 4 days after casting of slab.

3.2 Refer to Architect, Electrical - and Mechanical Engineers drwg to verify positions of down pipes, duct penetrations, recesses etc. as required by them prior to casting of concrete.

3.3 Rainwater down pipes cast into concrete structure to comply with SABS 967-1987

3.4 All external walls to be built on strip footings.

 $3.5 \; \text{All} \; \text{columns} \; \text{placed} \; \text{centrally about gridlines/centrelines} \; \text{unless shown otherwise}.$

3.6 All bases placed centrally under columns unless shown otherwise.

4. CONCRETE-ABBREVIATIONS

4.1 B.E.L. = Bulk Earthworks Level

4.2 TOC. = Top of Concrete.

4.3 SL. = Soffit level

4.4 Col. = Column.

4.5 SFL. = Structural Floor Level.

5. CONCRETE DRAWING AND BENDING SCHEDULE NUMBERING SYSTEM

6.5 Only every 5th layer of brickwork may be header bond, with the 4 layers in between to be strecher-bond.

below and above all windows and above all doors extending 600mm past such openings.

ties per sq meter minimum. Adjacent to columns, ties to be built into every second layer of brickwork.

6.7 Galvanized butterfly ties complying with SABS 28 or approved poly propylene ties shall be built into cavity walls at a rate of 5

6.8 In concrete blockwork brickforce shall be installed continuous throughout in every second course as well as in two courses

6.9 Galvanized brick reinforcement shall be installed continuously in every 4th course of all brickwalls on suspended concrete

6.10 Slip joints: The top of all loadbearing brickwork to be plastered smooth with 3.1 cement mortar, 2 layers of 500 micron gunplas

6.11 Allow 10mm soft joint (jointex) between beam/slab soffits and top of all brick/block walls. The same applies for vertical joints

6.13 Galvanized hoop irons anchors (min 60 sq mm section) shall be installed every 4th course between RC Columns and Brick Walls

7.2 All hot rolled sections are Grade 350W. Manufacturer's material certificate to be approved by Engineer prior to fabrication.

7.6 All drawings are design drawings. Workshop drawings to be prepared by the Contractor and submitted to the Engineer for

8.4 All truss and girder members to be welded all round both sides, allow for gusset plates to ensure adequate welding length to

8.8 The Contractor shall produce evidence acceptable to the Engineer that welding procedures and welders have been tested in

9.3 Cladding contractor to ensure purlins and girts remain straight during installation of cladding and insulation material.

(b) Primer: Apply by airless spray one coat of zinc phosphate primer (code UC 182)). Dry film thickness, 50-50 micrometers.

specification. The two finish coats to be different colours. After erection repair all damaged areas as above.

(c) Finishing coats: Apply by brush, roller or spray two coats of Plascon hysheen enamel (HG). Dry film thickness per coat, 25 - 35

micrometers. Overcoating time, 24 hours. Minimum total dry film thickness, 90 micrometers. Final colour to Architects

7.7 Our General Notes take preference, irrespective of any comments or notes made on the workshop drawings.

approval prior to manufacture. The Contractor must also prepare drawings showing all positions, levels and orientation of cast-

slabs and in 2 layers above and below all windows and doors extending at least 600mm past such openings

6.6 Concrete blocks and bricks shall comply with SABS 1215 and shall be laid dry.

6.12 Soft joints on all external walls to be sealed with polysulphide sealant on outside.

and extend 400mm into masonary. Use 6mm nailplugs - NO SHOT FIXING.

placed on walls prior to casting of concrete.

7. Structural Steel-General

in plates and bolts.

7.1 All structural steelwork to SABS 1200H.

between concrete columns and brick/block walls.

7.3 All cold-formed steel sections - Min yield stress of 200 MPa.

7.4 All bolts are Grade 8.8 unless specifically specified otherwise.

7.8 Non-shrink grout under all steel supported on concrete.

8. Structural Steelwork-Connections

develop full tensile capacity of members.

8.6 Use Class E70XX Electrodes for all welding.

8.5 Centroids of all members to intersect.

8.7 All welders shall be coded welders.

9. Structural Steelwork-Cladding

9.1 Cladding to be done to SABS 1200 HB.

Overcoating time, 24 hours.

10.1 Indoor

7.9 All hot rolled sections to be painted to paint specifications.

7.5 The Contractor must check all dimensions on site prior to construction.

8.1 For structural steel fixed to concrete allow 20mm tolerance for lining up.

8.3 All connections to be adequate to develop the full tensile capacity of members.

accordance with the requirements of SABS 044, Parts III and IV.

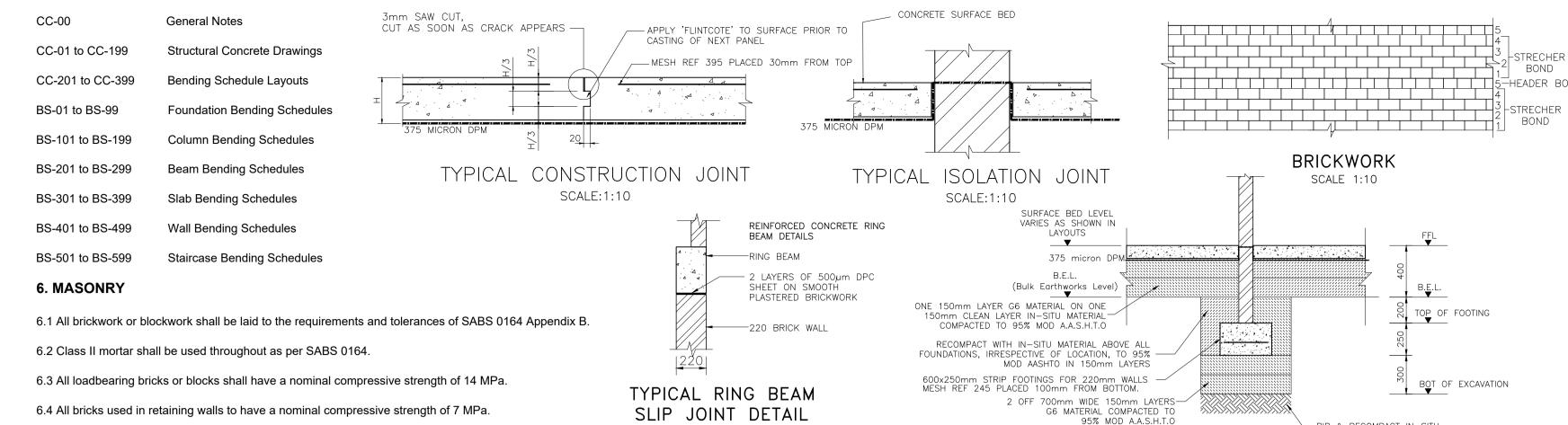
(a) Surface preparation: Wire brush steel to Swedish standards SIS 055900 of 1967 to ST3.

10.2 All bracing at the truss top chord level to be painted same colour as roof insulation.

9.2 All roof and side cladding to be as per Architects specification

10. Structural Steel-Corrosion protection:

8.2 Use 'HILTI', 'RAWL' or 'UPAT' expansion bolts and chemical anchors or similar approved

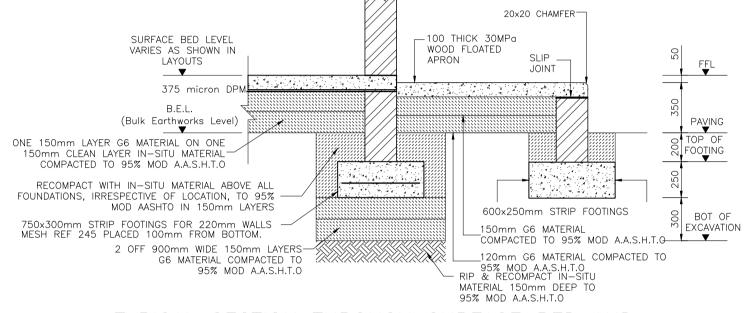


SCALE 1:25

TYPICAL SECTION THROUGH SURFACE BED AND STRIP FOOTINGS FOR 110mm WALLS

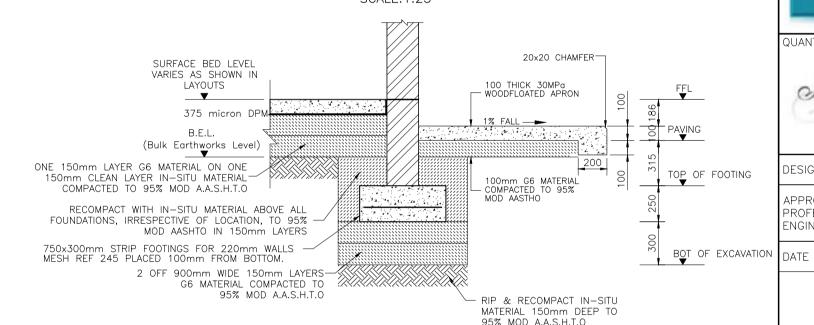
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- RIP & RECOMPACT IN-SITU

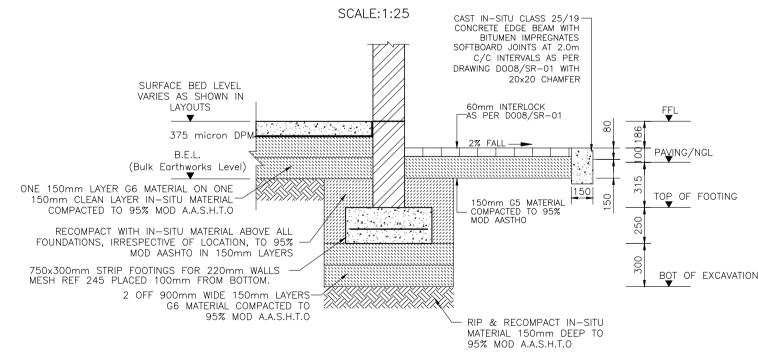


TYPICAL SECTION THROUGH SURFACE BED AND STRIP FOOTINGS AND APRON AT ENTRANCE

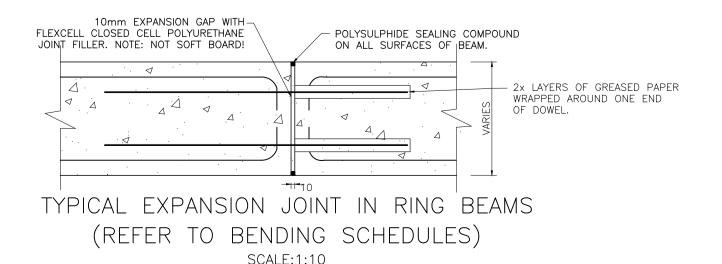
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TYPICAL SECTION THROUGH SURFACE BED AND STRIP FOOTINGS AND APRON



TYPICAL SECTION THROUGH SURFACE BED AND STRIP FOOTINGS AND INTERLOCK APRON SCALE:1:25



CONSTRUCTION NOTES:

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ALL DISCREPANCIES TO BE REPORTED TO ENGINEER IMMEDIATELY.

REFER TO DRAWING NO.: D0008/SC-00 FOR STANDARD

ALL MATERIAL, TEST AND WORKMANSHIP TO BE ACCORDING TO SANS 1200 UNLESS OTHERWISE STATED.

 CONTRACTOR TO PROTECT ALL EXISTING SERVICES AGAINST ANY DAMAGE.

THIS DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECT DRAWINGS.



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FOR BIDDING

TITLE: STRUCTURES: GENERAL NOTES AND DETAILS

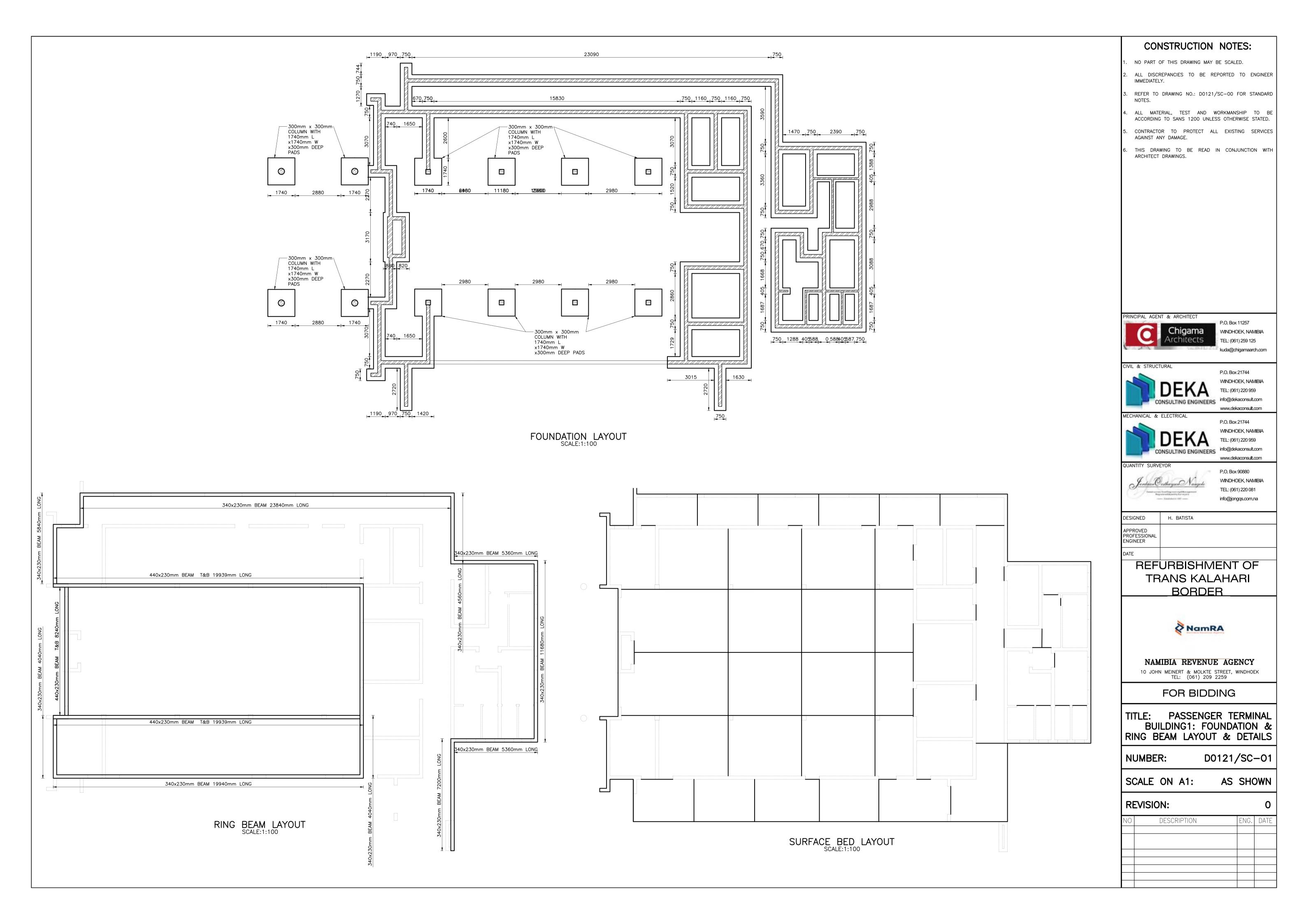
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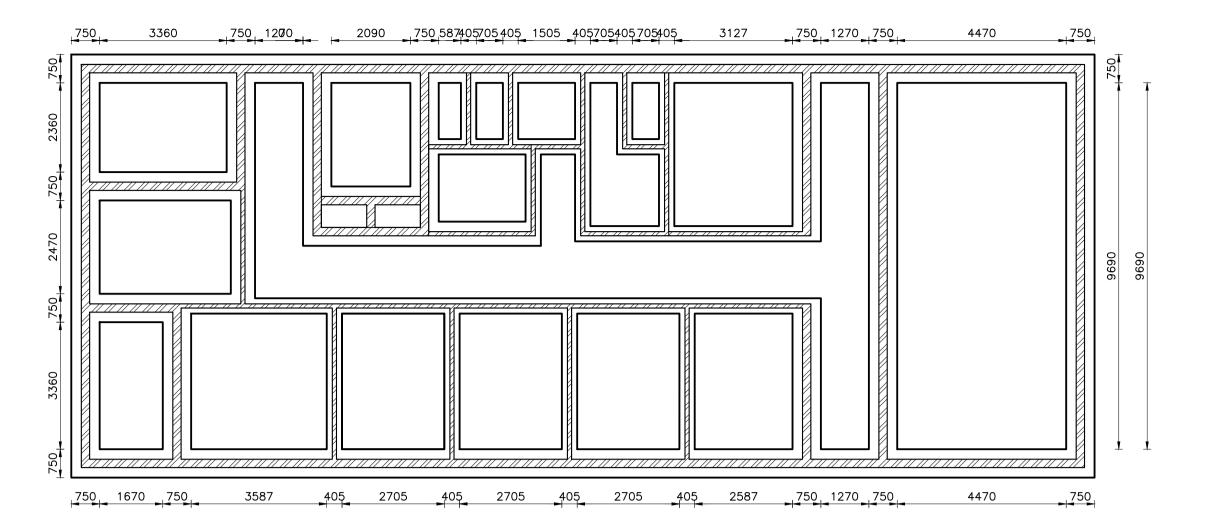
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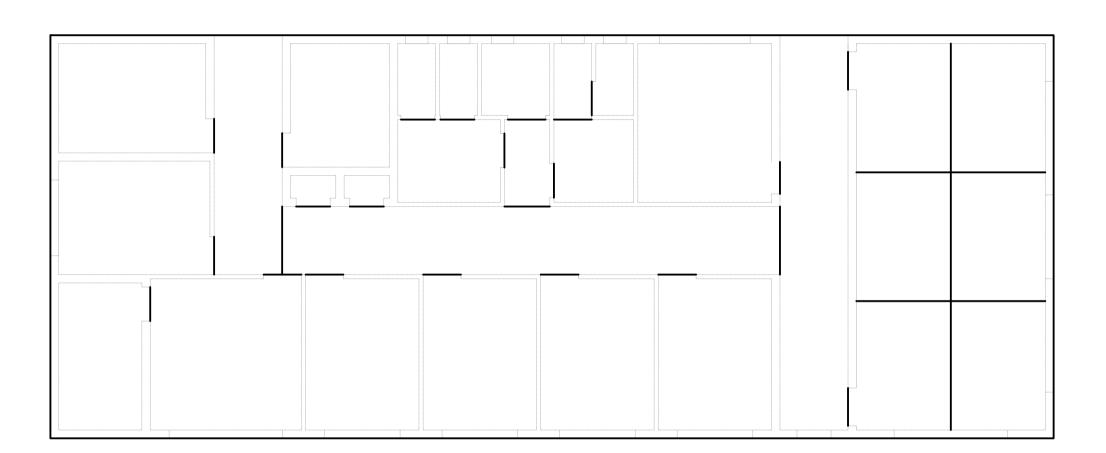
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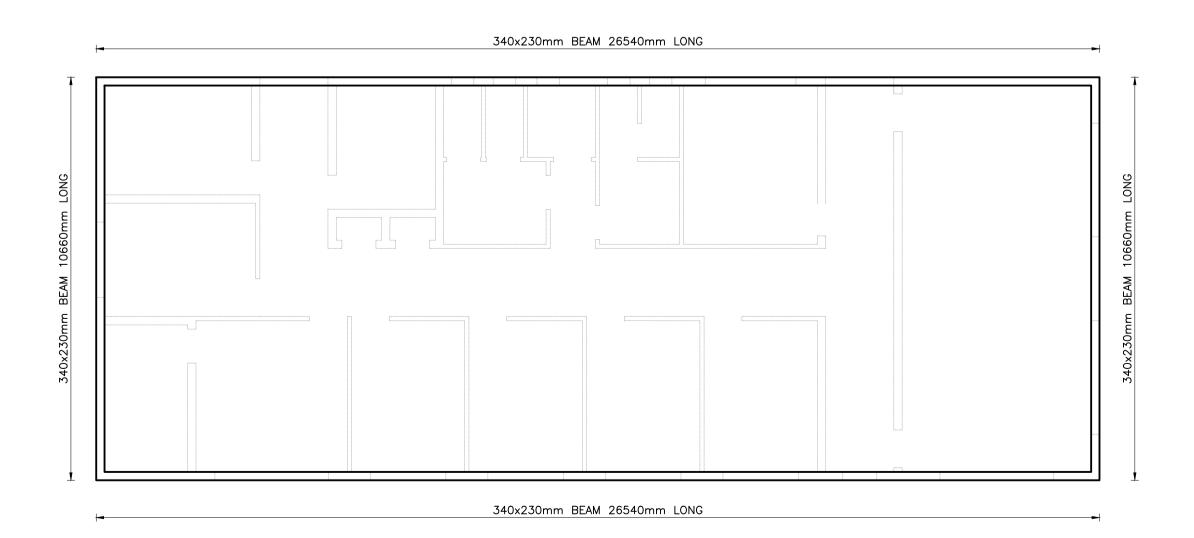




FOUNDATION LAYOUT SCALE:1:100



SURFACE BED LAYOUT



RING BEAM LAYOUT SCALE:1:100

CONSTRUCTION NOTES:

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TITLE: PASSENGER TERMINAL BUILDING2: FOUNDATION & RING BEAM LAYOUT & DETAILS

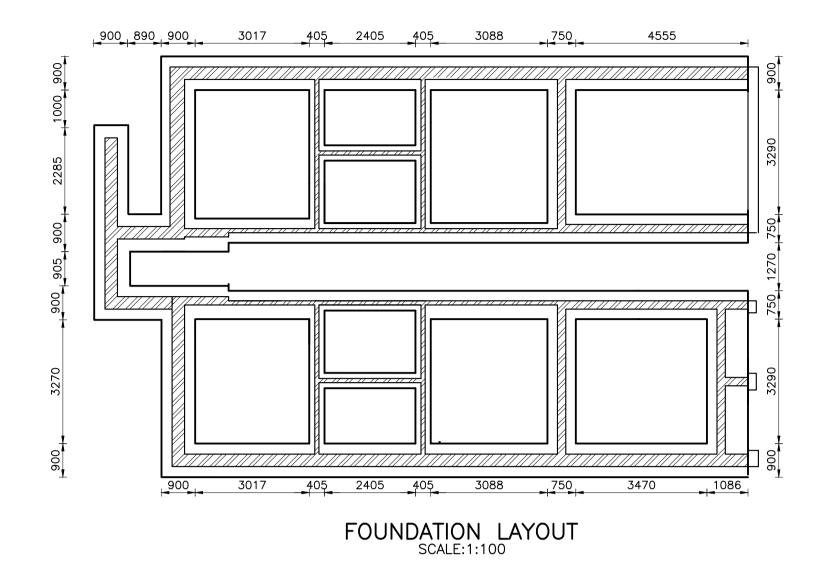
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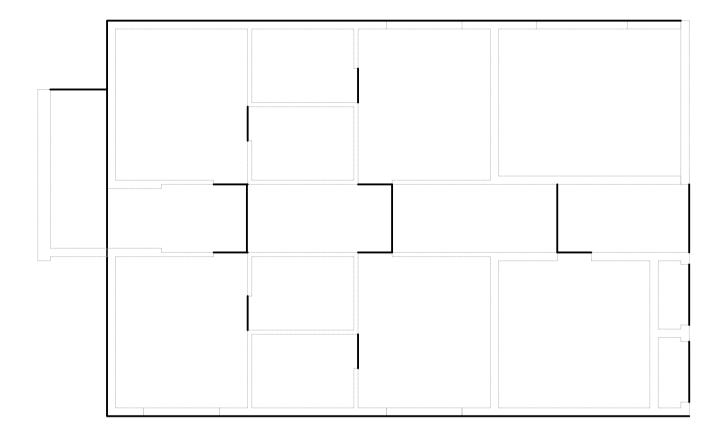
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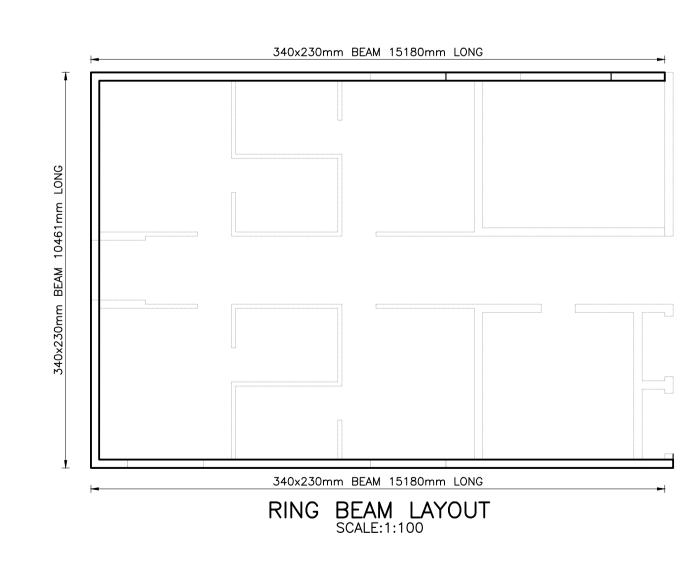
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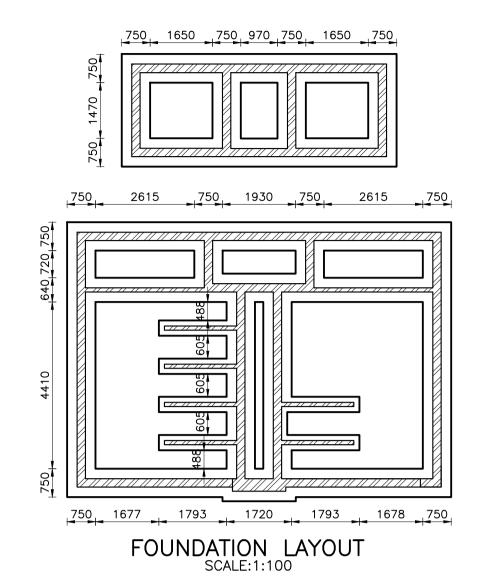
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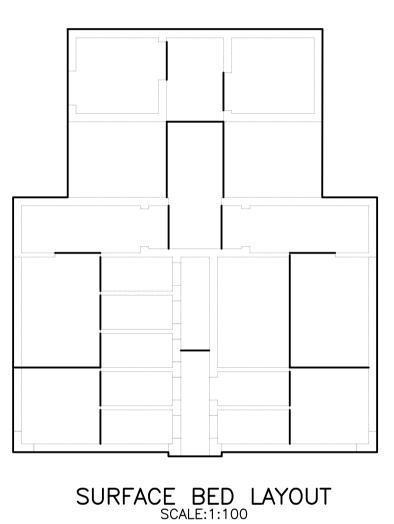


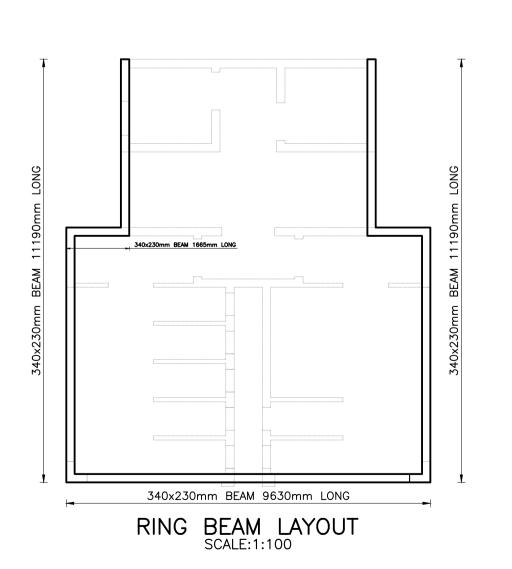


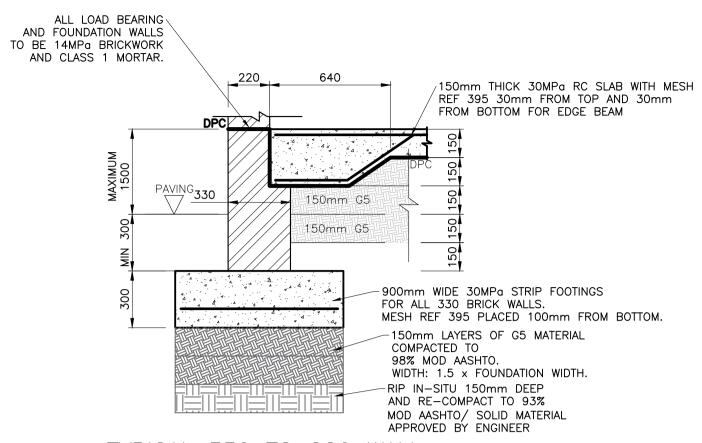
SURFACE BED LAYOUT











TYPICAL 330 TO 220 WALL FOUNDATION DETAIL

SCALE 1:20

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- ACCORDING TO SANS 1200 UNLESS OTHERWISE STATED.
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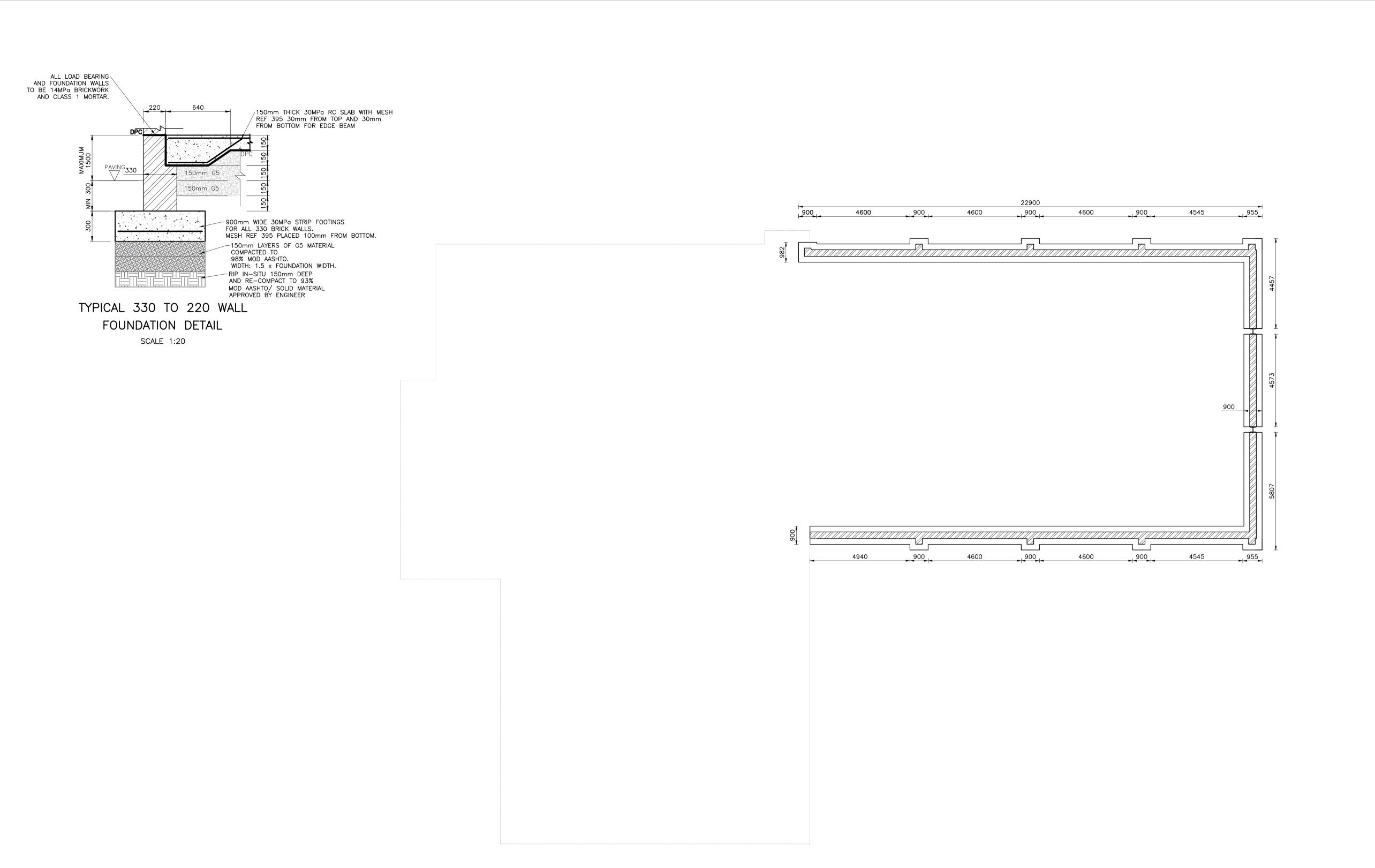
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NUMBER: D0121/SC-03

SCALE ON A1: AS SHOWN

REVISION:

NO	DESCRIPTION	ENG.	DATE
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FOUNDATION LAYOUT SCALE:1:100

CONSTRUCTION NOTES:

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TITLE: COMMERCIAL TERMINAL EXISTING BUILDING: FOUNDATION LAYOUT & DETAILS

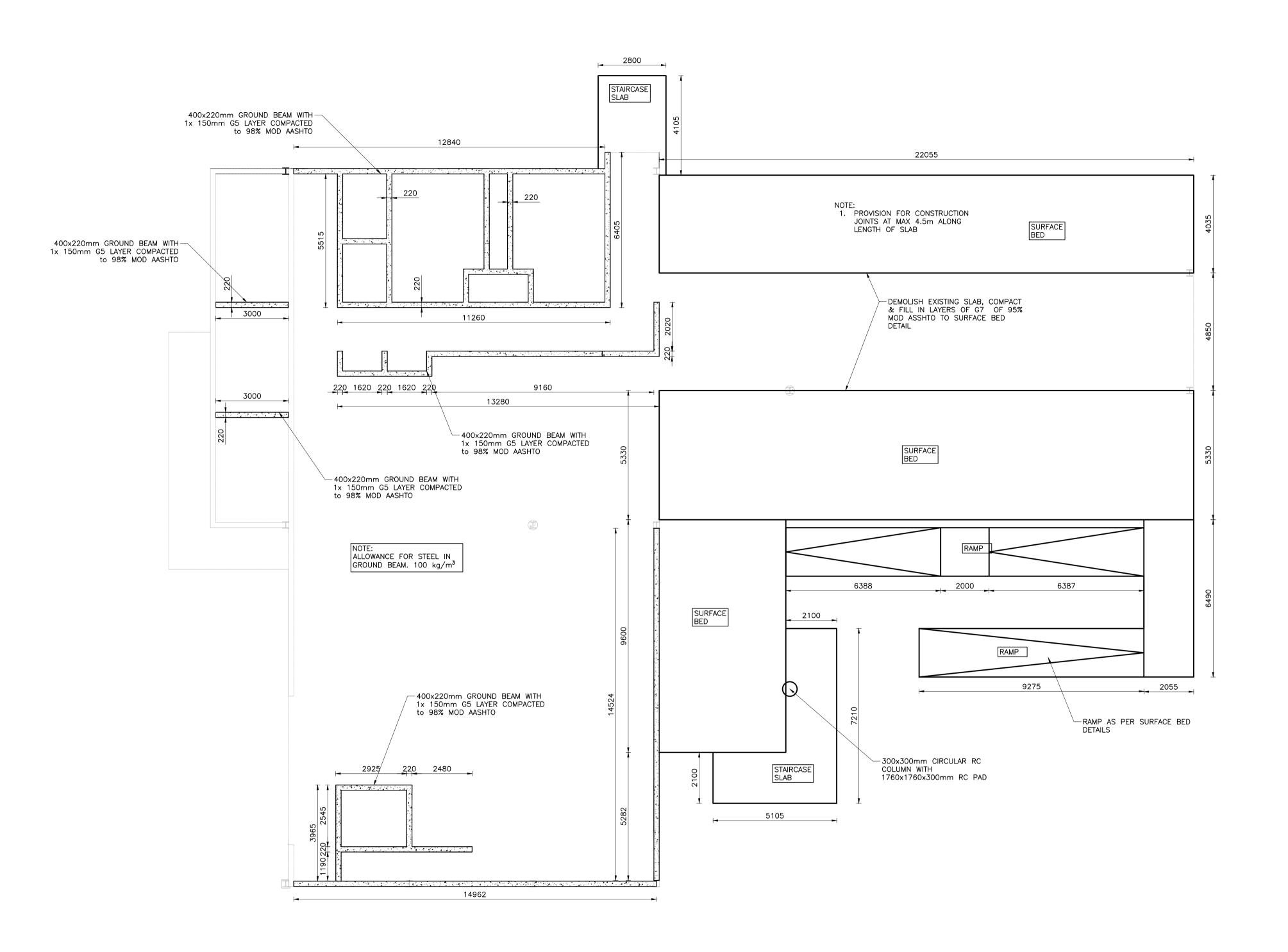
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D0121/SC-04

SCALE ON A1: AS SHOWN

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DESCRIPTION ENG. DATE



SURFACE BED & 400x220mm GROUND BEAM LAYOUT SCALE:1:100

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TITLE: COMMERCIAL TERMINAL EXISTING BUILDING: SURFACE BED & GROUND BEAMS LAYOUT

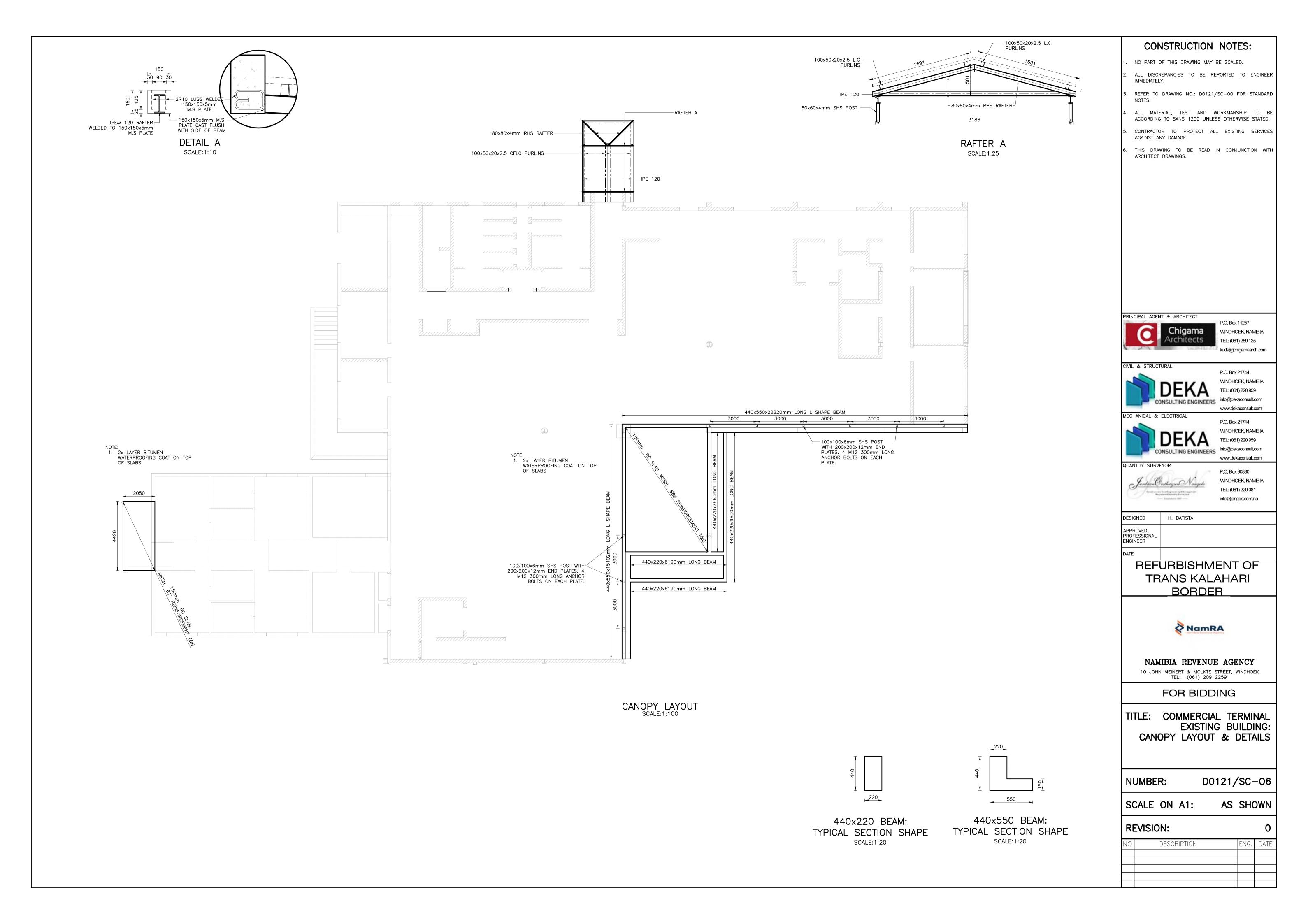
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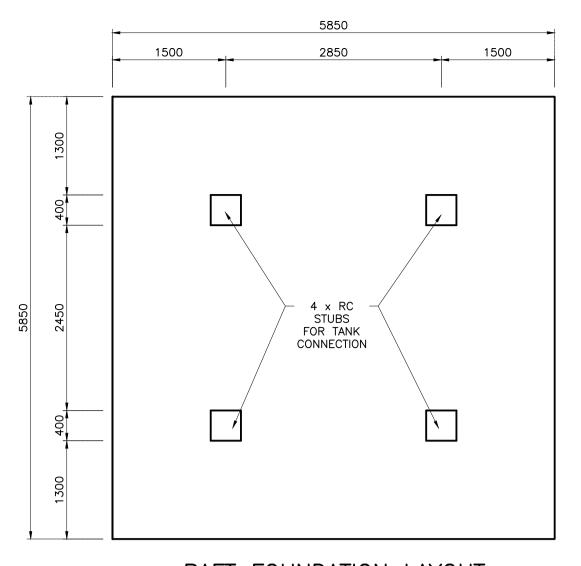
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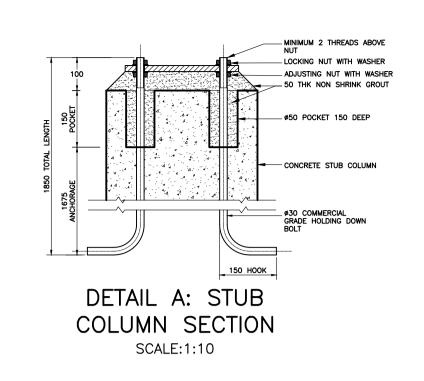
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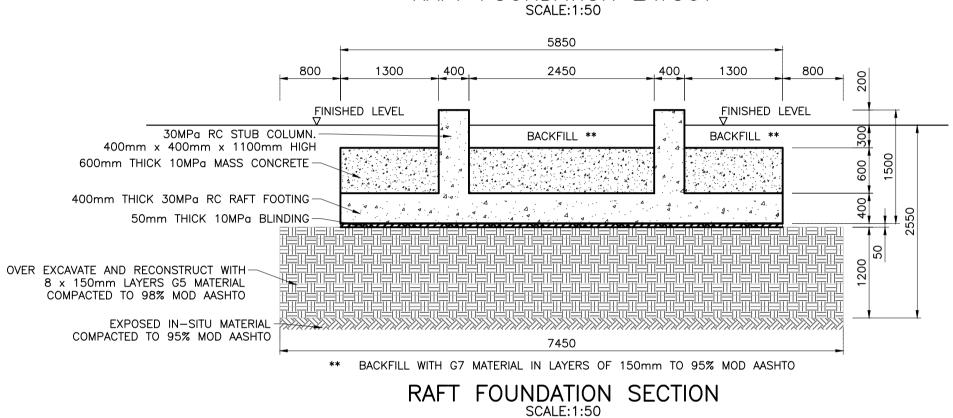
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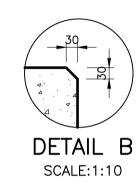


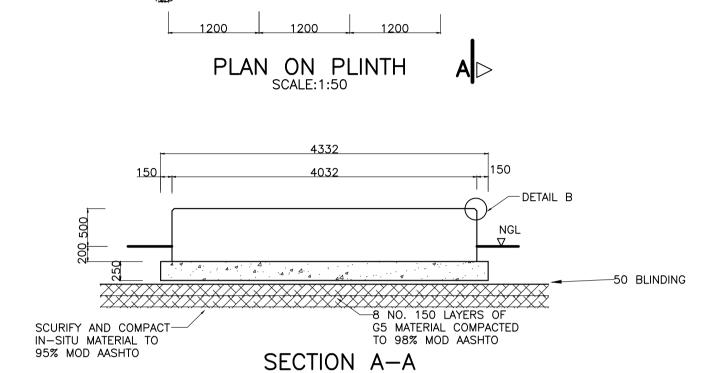




RAFT FOUNDATION LAYOUT

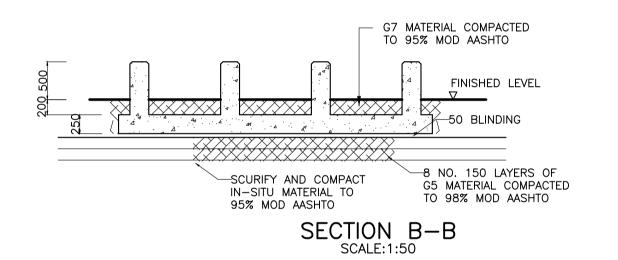


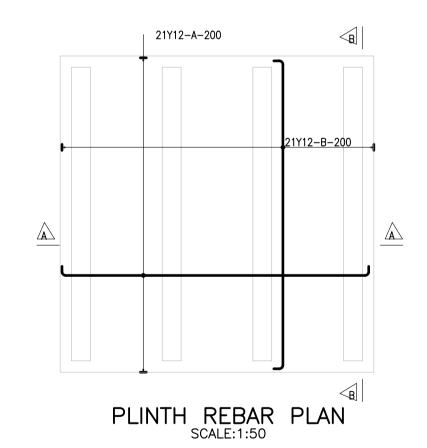


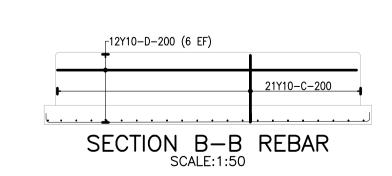


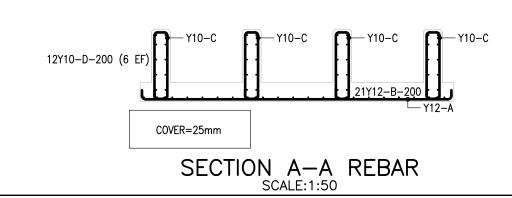
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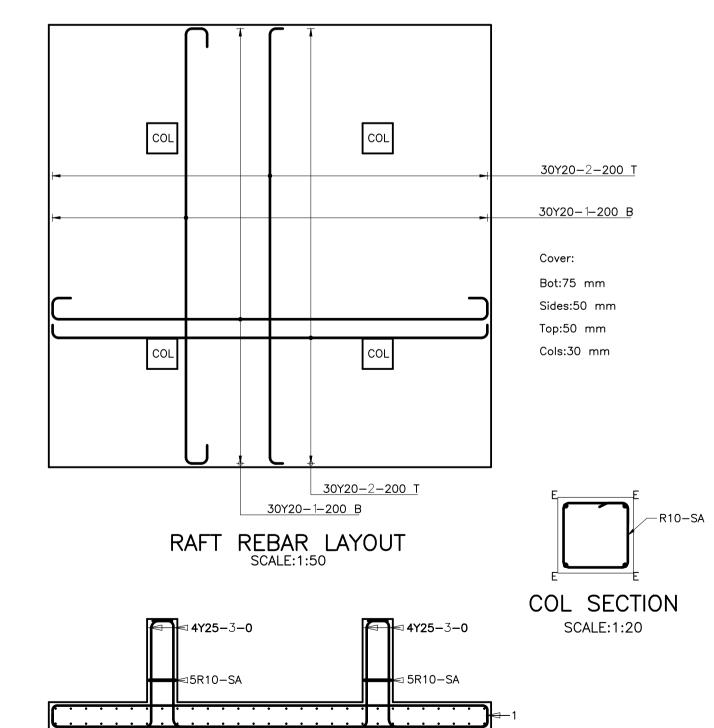
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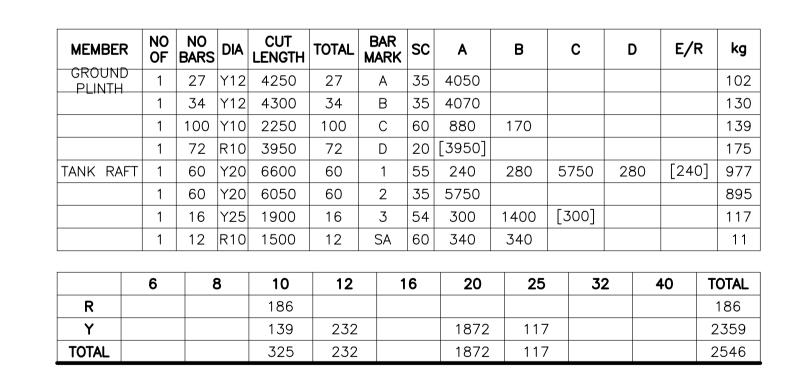








RAFT REBAR SECTION SCALE:1:50





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ENGINEER

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DESIGNED H. WINCKLER APPROVED PROFESSIONAL

- Francis v (m) ---

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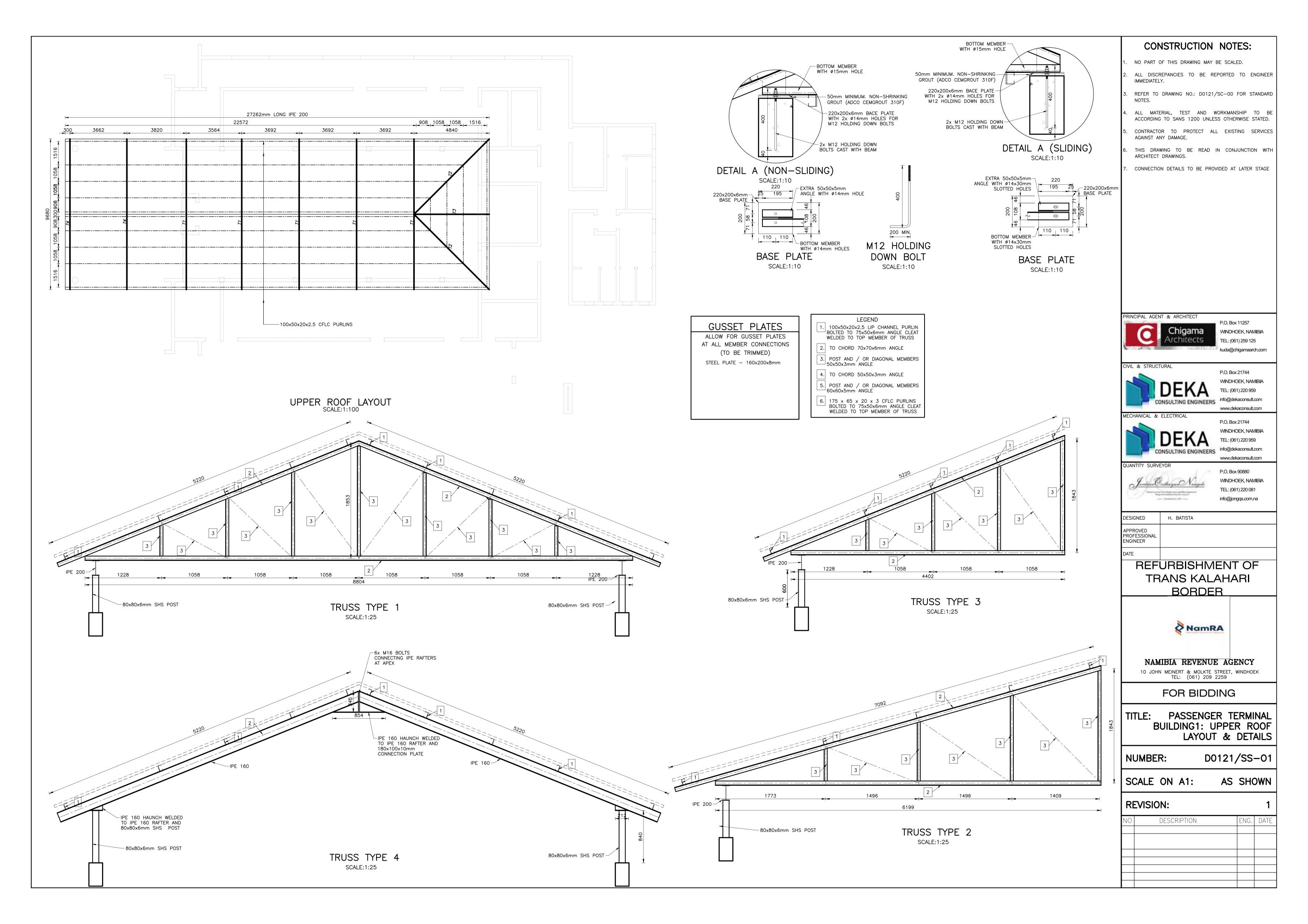
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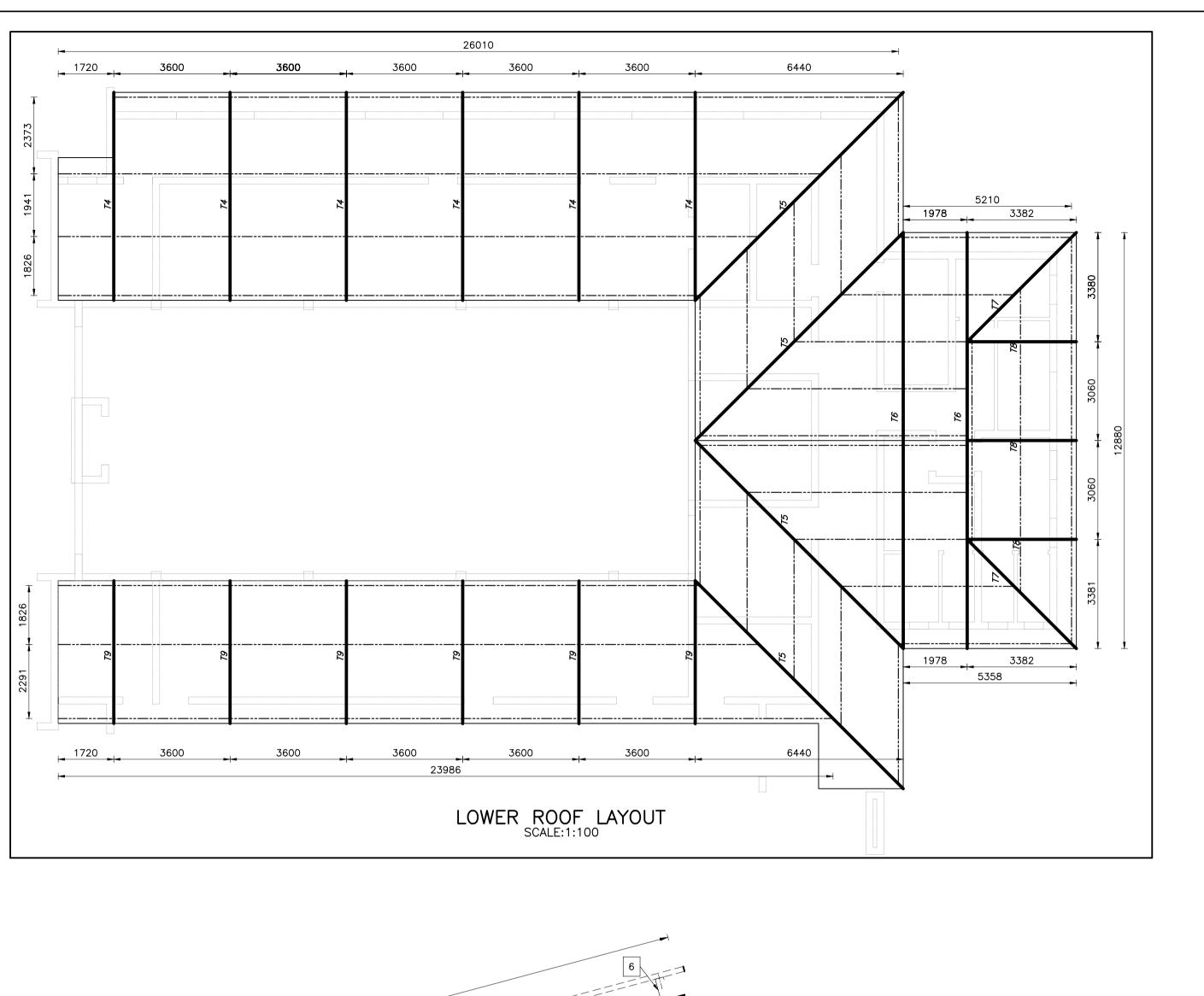
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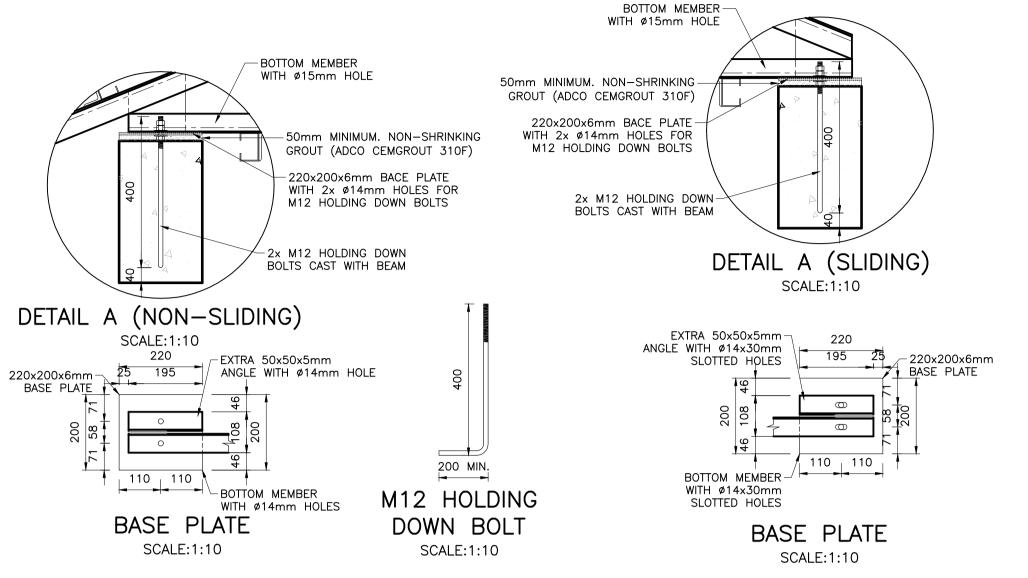
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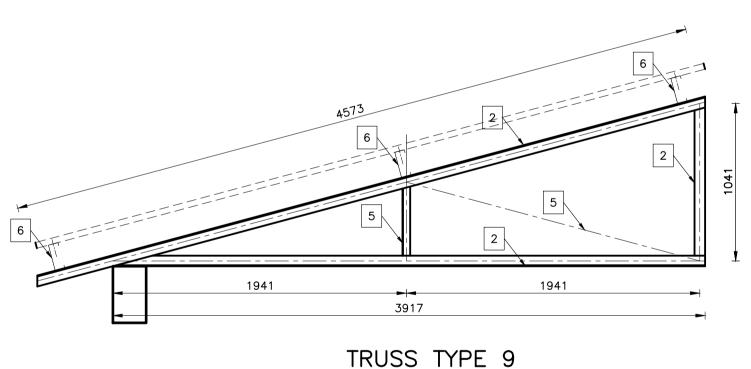
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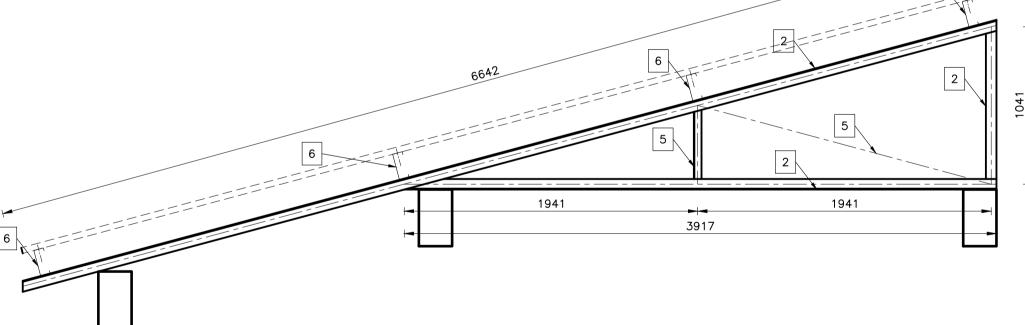
DESCRIPTION ENG. DATE

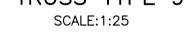


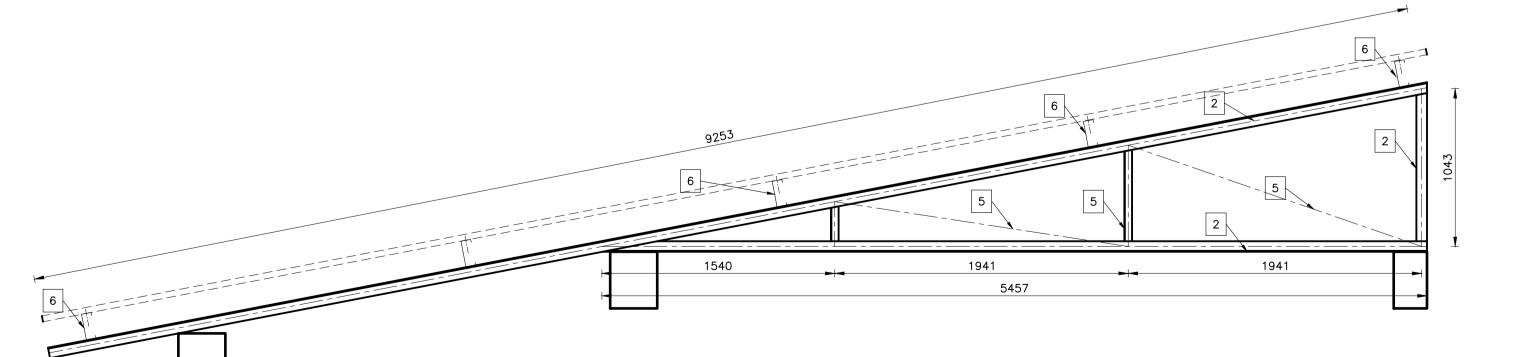












ALLOW FOR GUSSET PLATES
AT ALL MEMBER CONNECTIONS
(TO BE TRIMMED)
STEEL PLATE - 160x200x8mm

- LEGEND

 100x50x20x2.5 LIP CHANNEL PURLIN
 BOLTED TO 75x50x6mm ANGLE CLEAT
 WELDED TO TOP MEMBER OF TRUSS
- 2. TO CHORD 70x70x6mm ANGLE
- 3. POST AND / OR DIAGONAL MEMBERS 50x50x3mm ANGLE
- 4. TO CHORD 50x50x3mm ANGLE

 5. POST AND / OR DIAGONAL MEMBERS
 60x60x5mm ANGLE
- 6. 175 x 65 x 20 x 3 CFLC PURLINS BOLTED TO 75x50x6mm ANGLE CLEAT WELDED TO TOP MEMBER OF TRUSS

TRUSS TYPE 5
SCALE:1:25

TRUSS TYPE 4

SCALE:1:25

CONSTRUCTION NOTES:

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- ALL DISCREPANCIES TO BE REPORTED TO ENGINEER
- 3. REFER TO DRAWING NO.: D0121/SC-00 FOR STANDARD
- ALL MATERIAL, TEST AND WORKMANSHIP TO BE

ACCORDING TO SANS 1200 UNLESS OTHERWISE STATED.

- CONTRACTOR TO PROTECT ALL EXISTING SERVICES
- AGAINST ANY DAMAGE.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECT DRAWINGS.
- CONNECTION DETAILS TO BE PROVIDED AT LATER STAGE

RINCIPAL AGENT & ARCHITECT



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TEL: (061) 259 125
kuda@chigamaarch.com

DEKA CONSULTING ENGINEE

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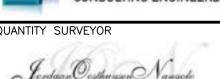
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DESIGNED H. BATISTA

APPROVED
PROFESSIONAL
ENGINEER

REFURBISHMENT OF TRANS KALAHARI BORDER



NAMIBIA REVENUE AGENCY

10 JOHN MEINERT & MOLKTE STREET, WINDHOEK TEL: (061) 209 2259

FOR BIDDING

TITLE: PASSENGER TERMINAL BUILDING1: LOWER ROOF LAYOUT & DETAILS

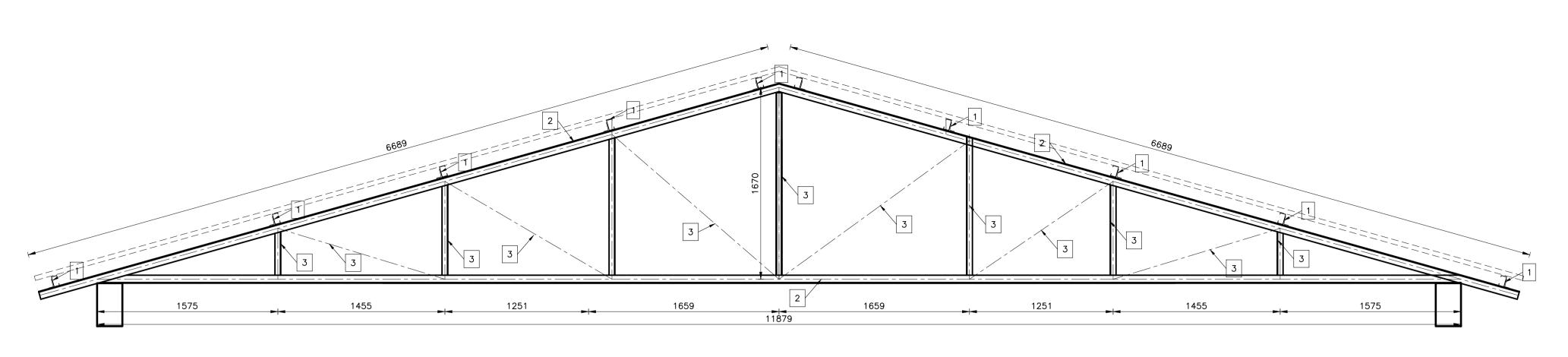
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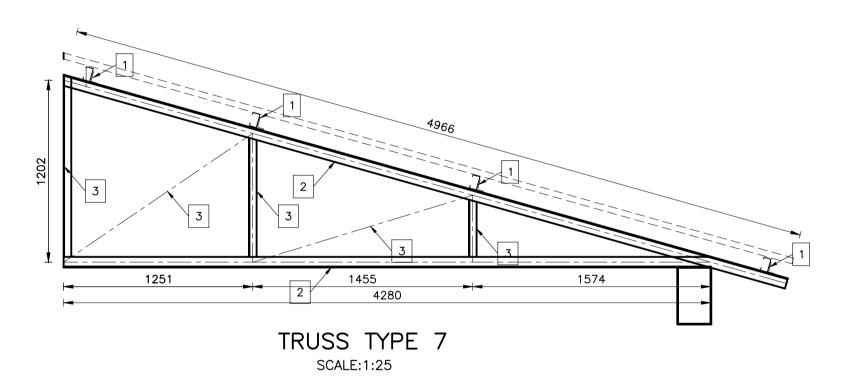
SCALE ON A1: AS SHOWN

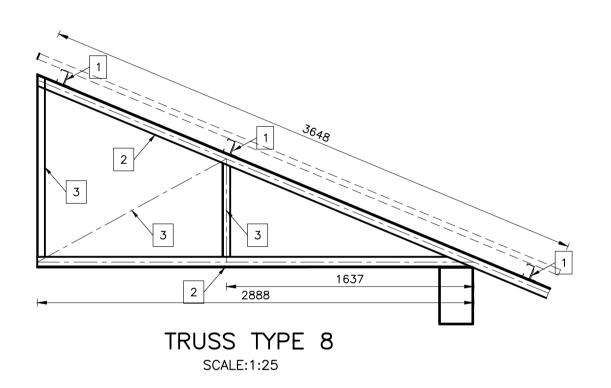
REVISION:

DESCRIPTION ENG. DATE



TRUSS TYPE 6 SCALE:1:25





GUSSET PLATES

ALLOW FOR GUSSET PLATES AT ALL MEMBER CONNECTIONS (TO BE TRIMMED) STEEL PLATE - 160x200x8mm

LEGEND

1. 100x50x20x2.5 LIP CHANNEL PURLIN BOLTED TO 75x50x6mm ANGLE CLEAT WELDED TO TOP MEMBER OF TRUSS

2. TO CHORD 70x70x6mm ANGLE

3. POST AND / OR DIAGONAL MEMBERS 50x50x3mm ANGLE

4. TO CHORD 50x50x3mm ANGLE

5. POST AND / OR DIAGONAL MEMBERS 60x60x5mm ANGLE

6. 175 x 65 x 20 x 3 CFLC PURLINS BOLTED TO 75x50x6mm ANGLE CLEAT WELDED TO TOP MEMBER OF TRUSS

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- ARCHITECT DRAWINGS.

CONNECTION DETAILS TO BE PROVIDED AT LATER STAGE





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APPROVED PROFESSIONAL ENGINEER

REFURBISHMENT OF TRANS KALAHARI BORDER



NAMIBIA REVENUE AGENCY

10 JOHN MEINERT & MOLKTE STREET, WINDHOEK TEL: (061) 209 2259

FOR BIDDING

PASSENGER TERMINAL BUILDING1: LOWER ROOF LAYOUT & DETAILS

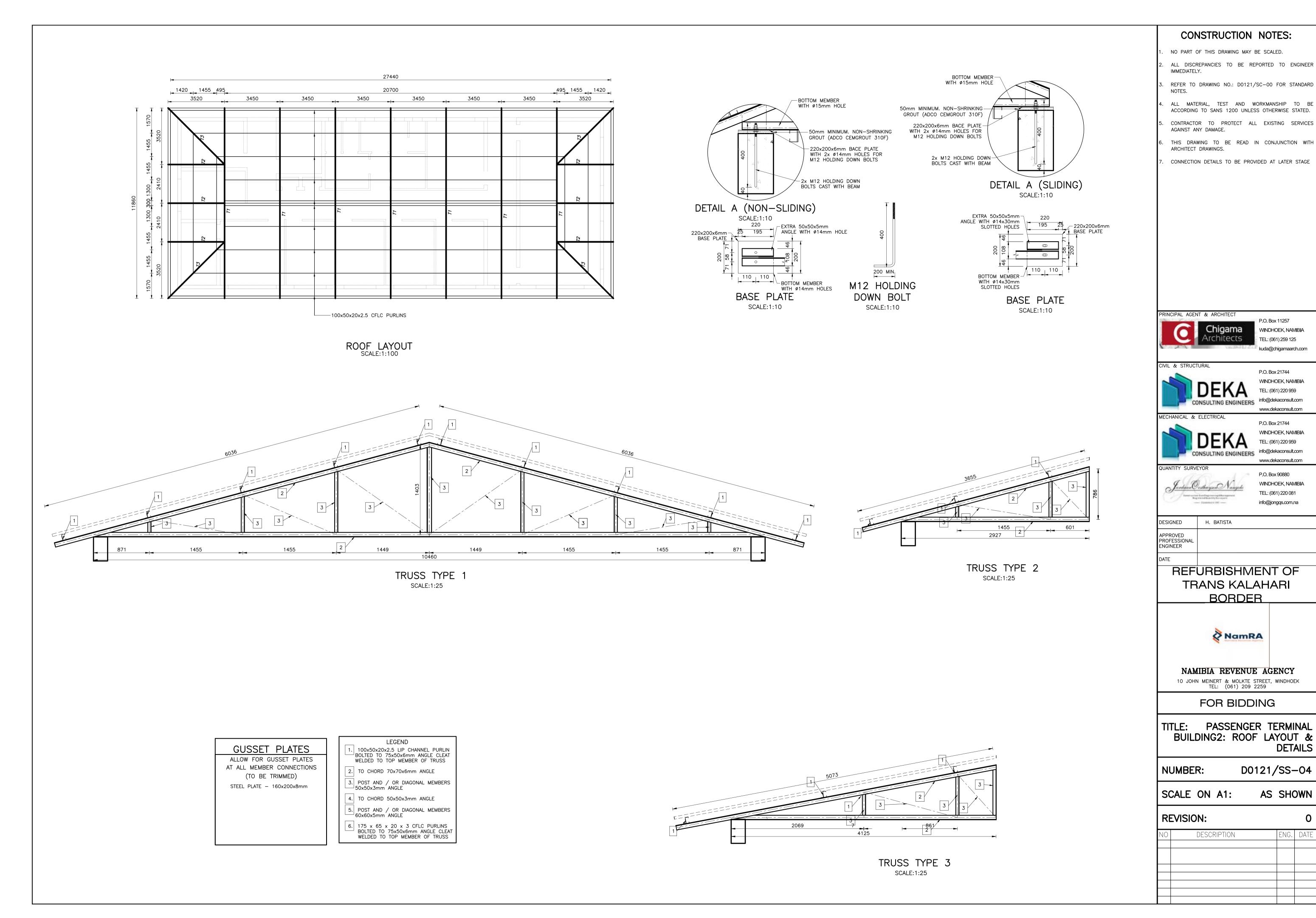
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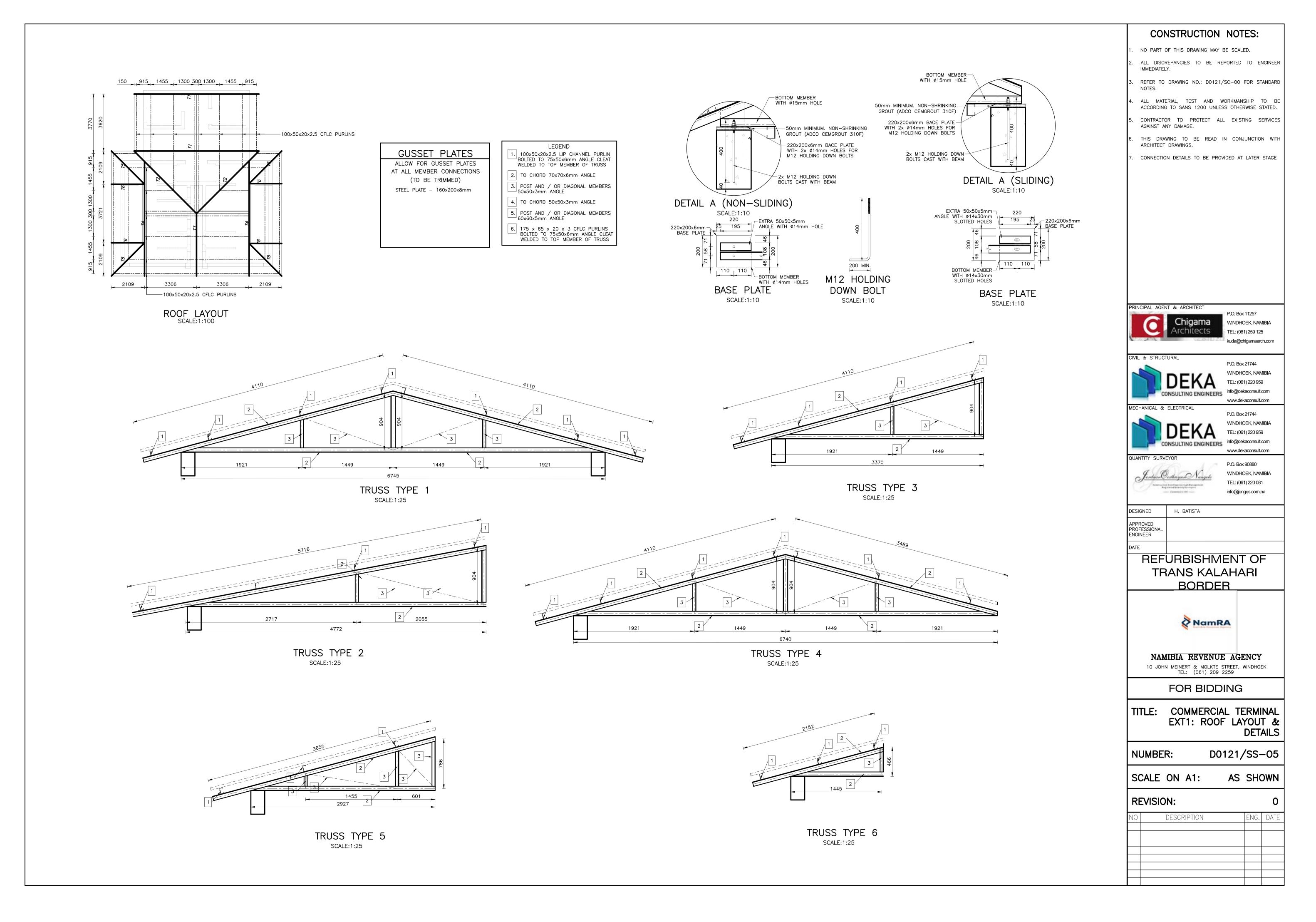
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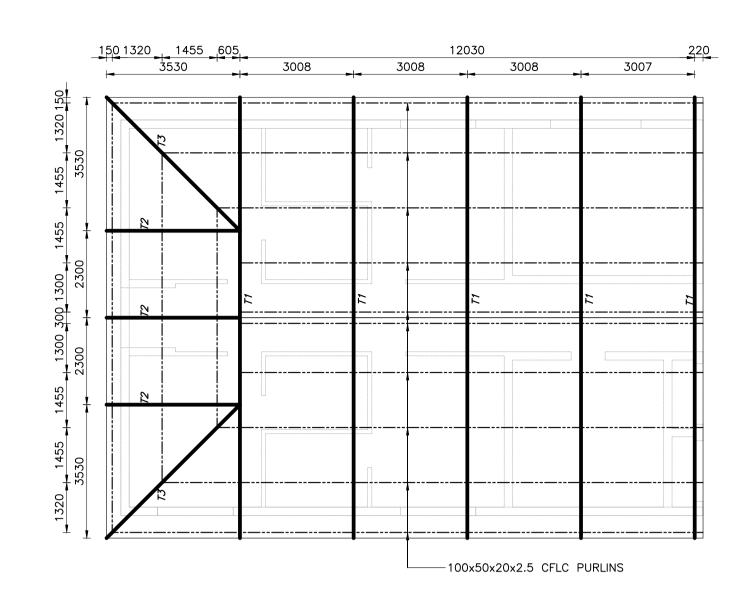
SCALE ON A1: AS SHOWN

REVISION:

DESCRIPTION ENG. DATE



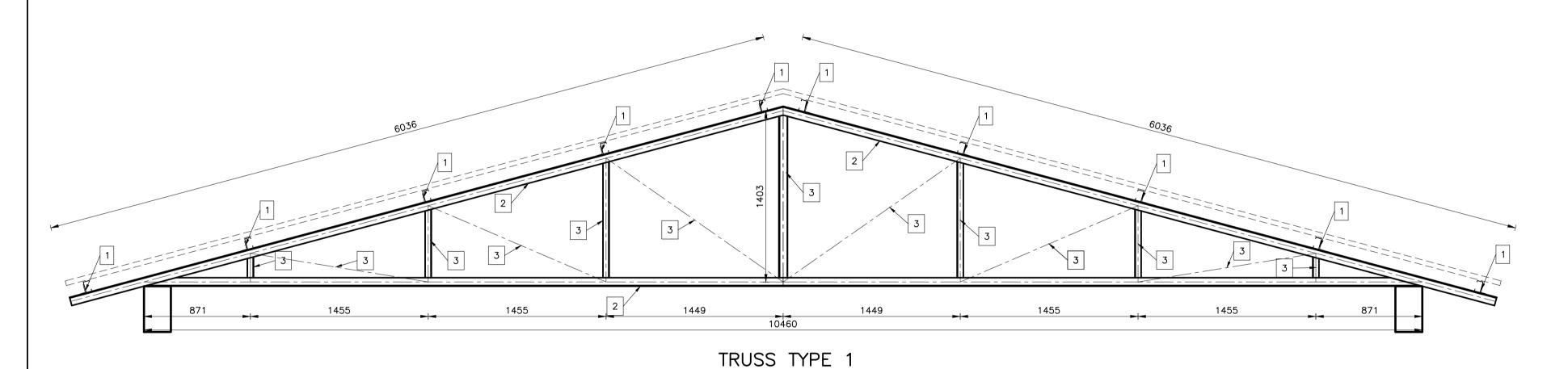




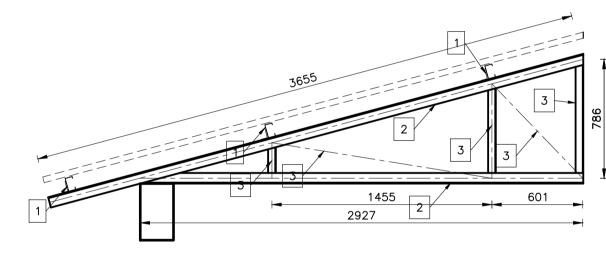
-BOTTOM MEMBER WITH Ø15mm HOLE 50mm MINIMUM. NON-SHRINKING -GROUT (ADCO CEMGROUT 310F) 220x200x6mm BACE PLATE -WITH 2x Ø14mm HOLES FOR 50mm MINIMUM. NON-SHRINKING M12 HOLDING DOWN BOLTS GROUT (ADCO CEMGROUT 310F) - 220x200x6mm BACE PLATE WITH 2x Ø14mm HOLES FOR 2x M12 HOLDING DOWN-M12 HOLDING DOWN BOLTS BOLTS CAST WITH BEAM -2x M12 HOLDING DOWN DETAIL A (SLIDING) BOLTS CAST WITH BEAM SCALE:1:10 DETAIL A (NON-SLIDING) EXTRA 50x50x5mm 220

ANGLE WITH Ø14x30mm 195 25 220x200x6mm SCALE:1:10 220 EXTRA 50x50x5mm
220x200x6mm 25 195 ANGLE WITH Ø14mm HOLE
BASE PLATE 200 MIN. BOTTOM MEMBER -/ ------WITH Ø14x30mm M12 HOLDING SLOTTED HOLES BASE PLATE DOWN BOLT BASE PLATE SCALE:1:10 SCALE:1:10 SCALE:1:10

ROOF LAYOUT



SCALE:1:25



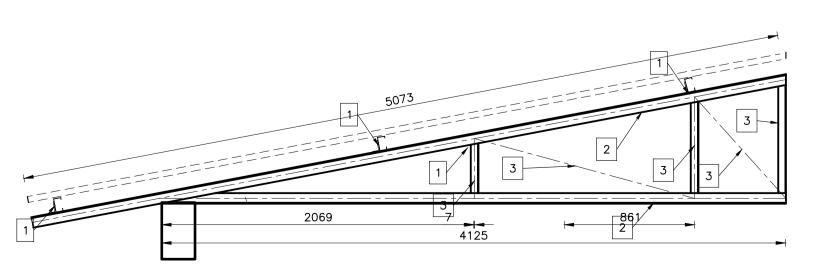
BOTTOM MEMBER-WITH Ø15mm HOLE

TRUSS TYPE 2 SCALE:1:25

GUSSET PLATES

ALLOW FOR GUSSET PLATES AT ALL MEMBER CONNECTIONS (TO BE TRIMMED) STEEL PLATE - 160x200x8mm

- LEGEND
- . 100x50x20x2.5 LIP CHANNEL PURLIN BOLTED TO 75x50x6mm ANGLE CLEAT WELDED TO TOP MEMBER OF TRUSS
- 2. TO CHORD 70x70x6mm ANGLE
- 3. POST AND / OR DIAGONAL MEMBERS 50x50x3mm ANGLE
- 4. TO CHORD 50x50x3mm ANGLE
- 5. POST AND / OR DIAGONAL MEMBERS 60x60x5mm ANGLE
- 6. 175 x 65 x 20 x 3 CFLC PURLINS BOLTED TO 75x50x6mm ANGLE CLEAT WELDED TO TOP MEMBER OF TRUSS



TRUSS TYPE 3 SCALE:1:25

CONSTRUCTION NOTES:

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- ARCHITECT DRAWINGS.

CONNECTION DETAILS TO BE PROVIDED AT LATER STAGE

PRINCIPAL AGENT & ARCHITECT



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DESIGNED H. BATISTA APPROVED PROFESSIONAL ENGINEER

> REFURBISHMENT OF TRANS KALAHARI BORDER



NAMIBIA REVENUE AGENCY 10 JOHN MEINERT & MOLKTE STREET, WINDHOEK TEL: (061) 209 2259

FOR BIDDING

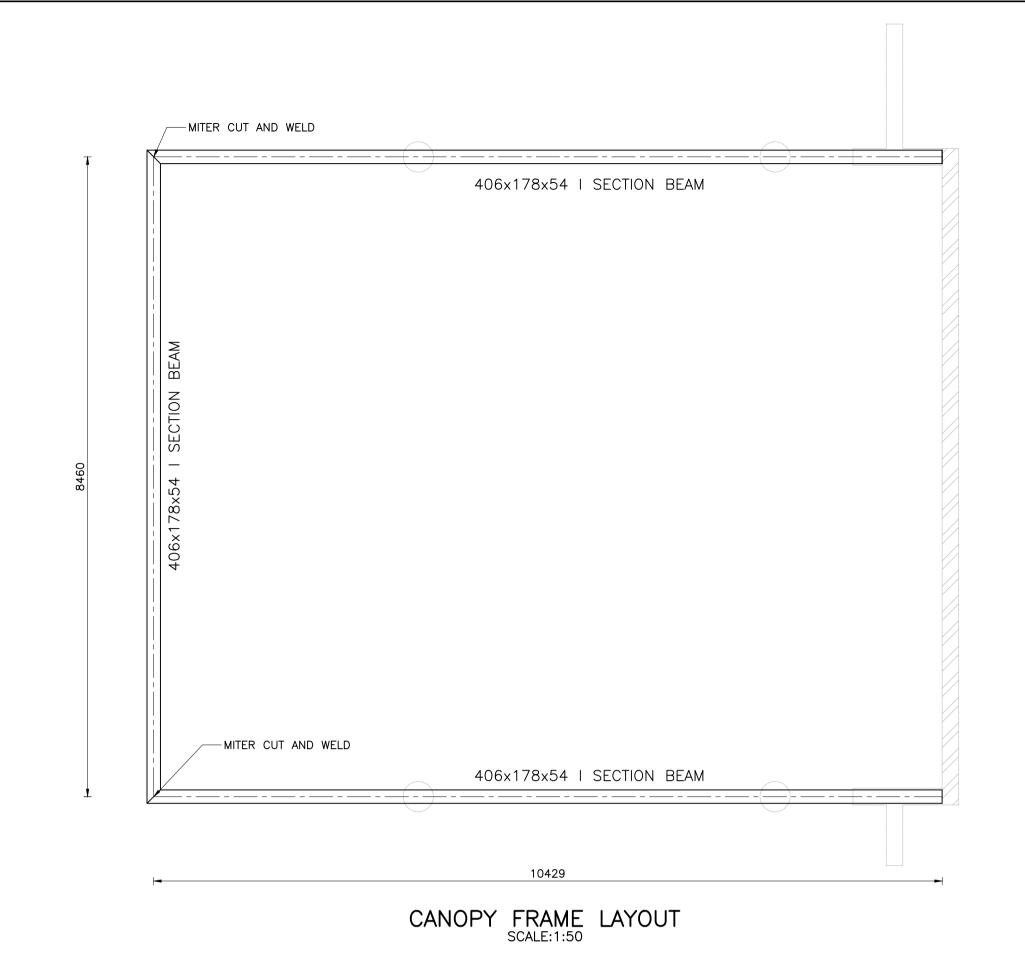
COMMERCIAL TERMINAL EXT2: ROOF LAYOUT & **DETAILS**

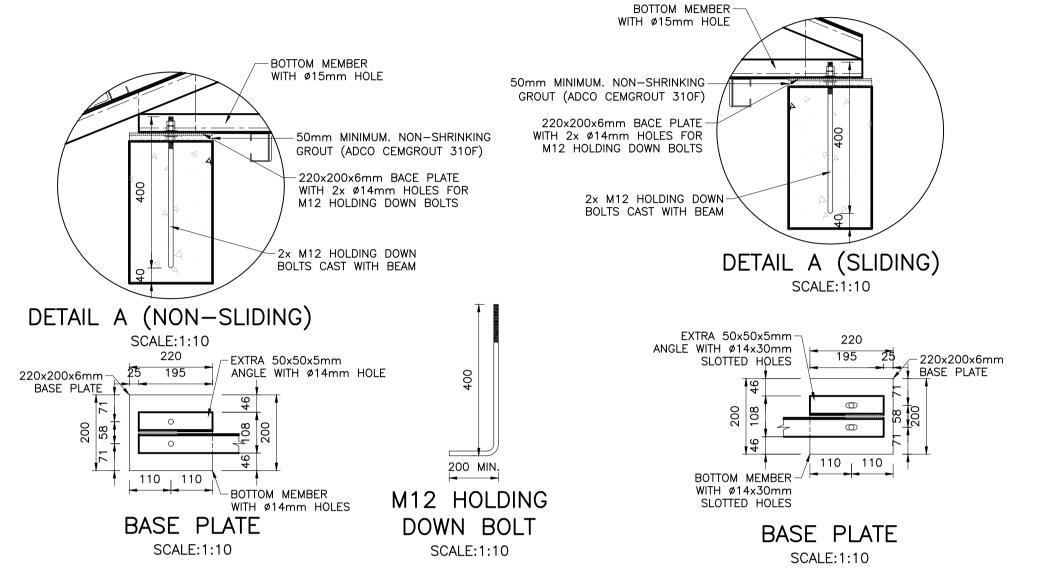
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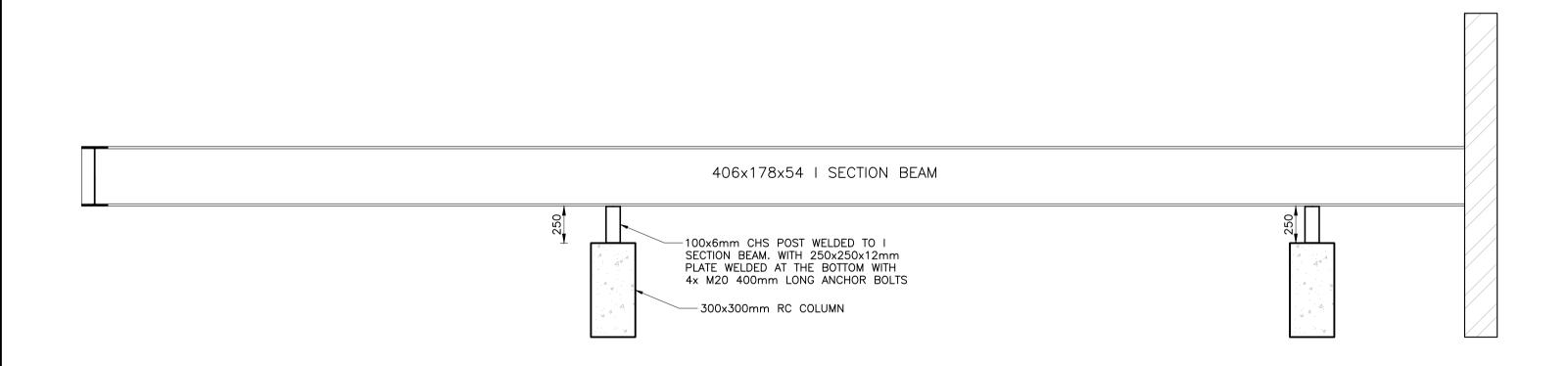
SCALE ON A1: AS SHOWN

REVISION:

DESCRIPTION







FRAME TYP SECTION SCALE:1:25

CONSTRUCTION NOTES:

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PRINCIPAL AGENT & ARCHITECT



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- Promovin or cont ----

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APPROVED PROFESSIONAL ENGINEER

REFURBISHMENT OF TRANS KALAHARI

BORDER



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FOR BIDDING

PASSENGER TERMINAL BUILDING1: ENTRANCE CANOPY **FRAME**

NUMBER: D0121/SS-07

AS SHOWN SCALE ON A1:

REVISION:

DESCRIPTION