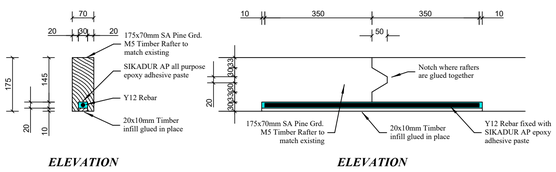
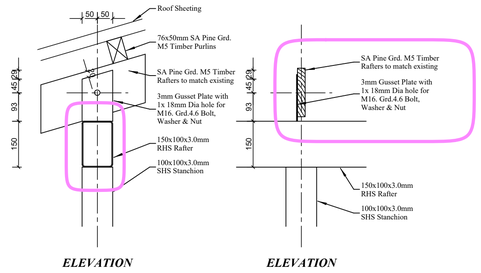
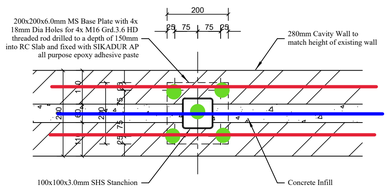


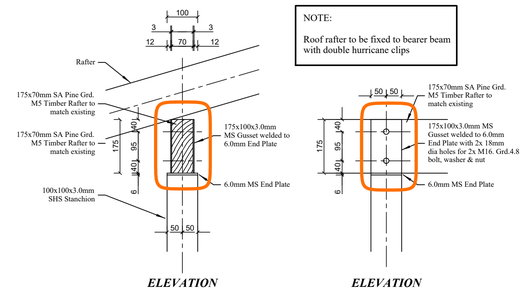
DETAIL 3
JOIN DETAIL FOR SUPPORT RAFTER
Scale 1:10



DETAIL 4
Scale 1:10



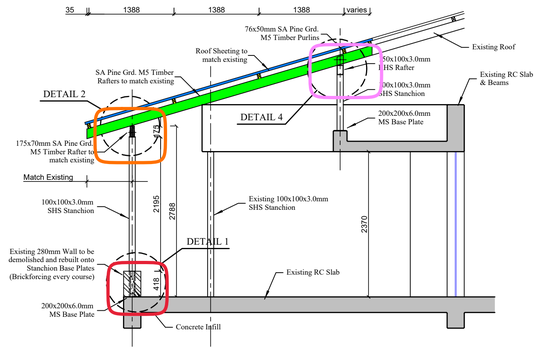
DETAIL 1
Scale 1:10



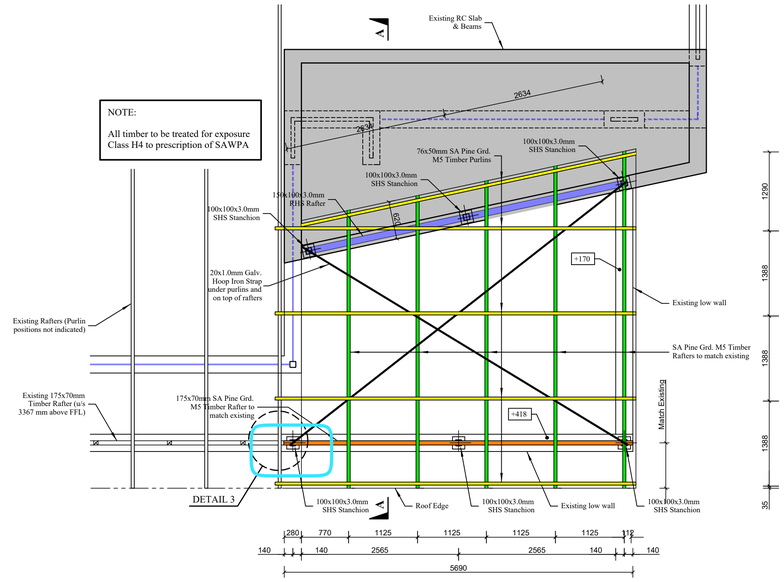
NOTE:

Roof rafter to be fixed to bearer beam with double hurricane clips

DETAIL 2
Scale 1:10



SECTION A-A
Scale 1:50



ROOF LAYOUT
Scale 1:50

NOTES:

1. GENERAL NOTES:

1.1 All dimensions to be checked on site before construction, or manufacturing, commences. Discrepancies must be reported to the engineer before construction may proceed. (No reinforcing steel to be ordered before dimensions have been checked by the Contractor.)

1.2 Drawings must not be scaled.

1.3 THE DESIGN ON THIS DRAWING REMAINS THE PROPERTY OF COSEC. COPYRIGHT RESERVED.

1.4 All drawings to be read in conjunction with architectural drawings.

1.5 No deviations from strucural drawings or alterations to the structure permitted without written consent of the engineer.

2. CONCRETE NOTES:

2.1 All concrete to be Class 30/19 unless specified differently elsewhere on the engineers drawings.

2.2 Cover to Reinforcing:

a) RC Beams - 30mm
b) Suspended RC Slabs - 30mm
c) Foundations - 50mm

2.3 All concrete work to be carried out in accordance with SANS 1200 GB.

2.4 Concrete mix designs and material samples to be submitted for the engineer's approval before construction commences.

2.5 Contractor to manufacture and use 30MPa concrete cover blocks.

2.6 Concrete to be vivbrated to remove entrained air within one hour from pouring and placing concrete.

2.7 Concrete to be cured by keeping moist for at least seven days by covering with plastic membrane. NOTE: Covering by wetted sand method will not be accepted for curing purposes.

2.8 Foundation excavations to be approved in writing by the engineer before concrete is cast.

2.9 Reinforcing fixed in final positions to be approved in writing by the engineer before concrete is cast.

2.10 Saw cuts in surface beds to be completed within 48 hours from when concrete was placed.

3. WATERPROOFING

3.1 Add PENETRON ADMIX to both concrete and screeds strictly according to manufacturer's specifications.

4. MASONRY

4.1 All masonry units to comply with specifications provided by the Architect.

4.2 Minimum compressive strength of masonry units in foundations and ground floor walls to be 14MPa. Remainder of brickwork to have a minimum compressive strength of 7MPa. Clay bricks to have a maximum absorption of 12% by mass.

4.3 All masonry work to be completed in accordance with the Architect's instruction. Minimum requirements to comply with that of document PW371 of the Department of Public Works.

4.4 Brickforcing to be provided as follows:

a) Foundation Walls : Every layer
b) Floor to lintol level: Every 4th course
c) Lintol to wall plate level: Every Layer (Gable ends included)

4.5 Brickforcing to be manufactured out of 2.8mm mild steel wire.

5. NO TEST RESULTS REQUIRED

6. MINIMUM REQUIRED INSPECTION INTERVAL

The following inspection interval is required to effectively monitor construction activities on site:

a) After props for roof structure is complete
b) Steel beams installed and lintels built into walls before demolishing walls
c) Final inspection of completed work

It is the Contractor's responsibility to notify the Engineer when inspections can be carried out.

7. STRUCTURAL STEEL

7.1 All structural steel to be Grd. 350W.

7.2 Welding to conform to the prescriptions of AWS ("American Welding Standard").

7.3 Steel to be corrosion protected.

REVISIONS

No.	Date	Description	Initials
0	2022/10/05	Issued for construction purposes	VAC
1	2022/10/06	Detail 3 & 4 , dimensions	VAC

2 m 0 m 2 m 4 m

Drawn By:	Checked By:
VAC	VAC
Start Date:	**Scale:**
2022/10/03	As Shown

CIVIL, STRUCTURAL ENGINEERS AND PROJECT MANAGERS

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COSEC

Project:

ALTERATIONS & ADDITIONS TO ERF 1212, OUBAAI GHOLF ESTATE HAROLDTS BAY

Title:

ROOF STRUCTURE LAYOUT SECTIONS & DETAILS

Plan Nr.:	Rev. Nr.:
C765/100	1