

STRUCTURAL DRAWINGS INDEX

DRAWING INDEX

[illegible]

World Bank

FDRE - Ministry of Finance UNOPS - ETMCC

Response -Recovery-Resilience for conflict affected communities in Ethiopia

SEMRET HEALTH POST

- i) Building shall be founded on isolated footings having a minimum depth of 1500mm from the floor finish level with bottom of excavation compacted prior to laying the foundation.
- ii) Foundation shall be placed on the natural normal soil and achieve a minimum bearing capacity of 250 KN/m². The top 300 mm soil shall be removed and replaced with well graded gravel material and compacted to the approval of the site supervisor.
- iii) Foundation trench excavation to be approved by the Engineer prior to the construction of the foundation.
- iv) Material Specification
 - a) Grade of Structural Concrete
 - C20/25 for columns, floor slab and beams;
 - fck (MPa) = 20 (Cylinder characteristics strength);
 - fck, cube (MPa) = 25 (Cylinder characteristics strength);
 - b) Concrete reinforcement bar

All steel reinforcement bars shall comply with the requirements of ES EN 1992:2105 Class B.

 - Characteristics yield strength of $f_{yk} = 460 \text{ MPa}$
 - Minimum value of " $k = f(t/f_y)k$ " > 1.08)
 - Characteristics Tensile strength of $f_{tk} > 500 \text{ MPa}$
 - Characteristics strain at maximum force > 5%)
 - c) Steel hollow section for roofing system , verandah column and plates
 - Grade-C : Tensile Strength = 415 Mpa
Yield Strength = 275 Mpa
 - d) Grade of Bolts
 - Grade 4.6: Yield Strength = 240 Mpa
Tensile Strength = 400 Mpa
- v) Durability Requirements
 - ❖ Concrete Cover to Reinforcement
 - Floor slabs :25mm;
 - Beams: 38mm
 - Columns; 38mm
 - All substructure (below ground level): 50mm
 - ❖ Protection of Steelwork
 - Surface preparation by blast cleaning, pickling process or where approved by wirebrushing;
 - Application of one coat of an approved pre-fabrication primer e.g. Zinc chromate;
 - Application of one coat of approved primer after fabrication;
 - Two coats of an approved paint system to be proposed by the Architect, one applied in the shop and the other applied on site after erection.
- vi) Steel Truss manufacturing inspection, by visual examination, must cover most aspects: bending, groove preparation, alignment before and after welding, welding process, penetration, tolerances for circumference, straightness and circularity, - double sided welds, heat treatment, small diameter welds around the nozzles, detecting of undercut, excessive convexity, distortions, etc. Defects acceptance criteria shall be in accordance with ES ISO 5817:2014

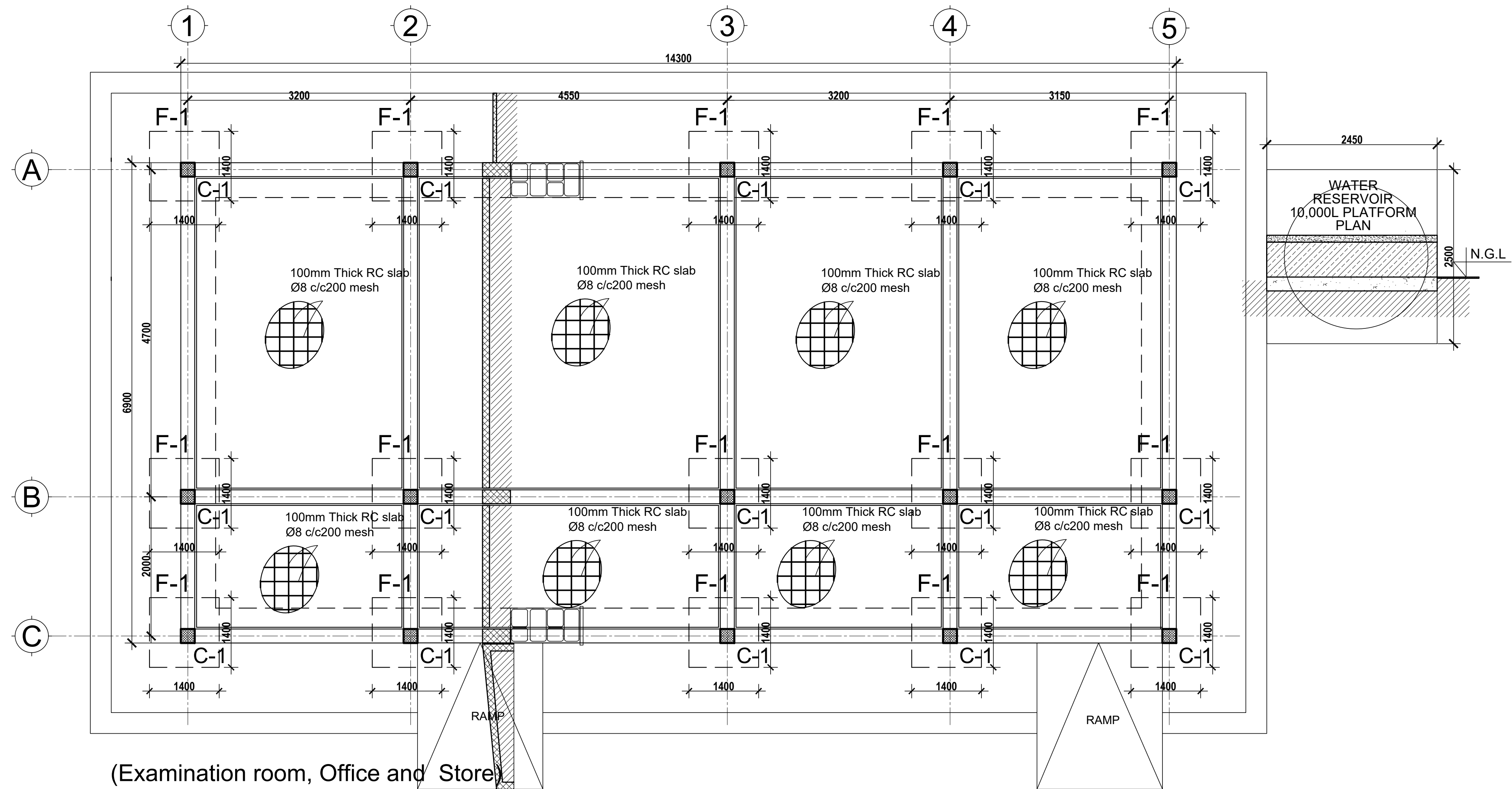
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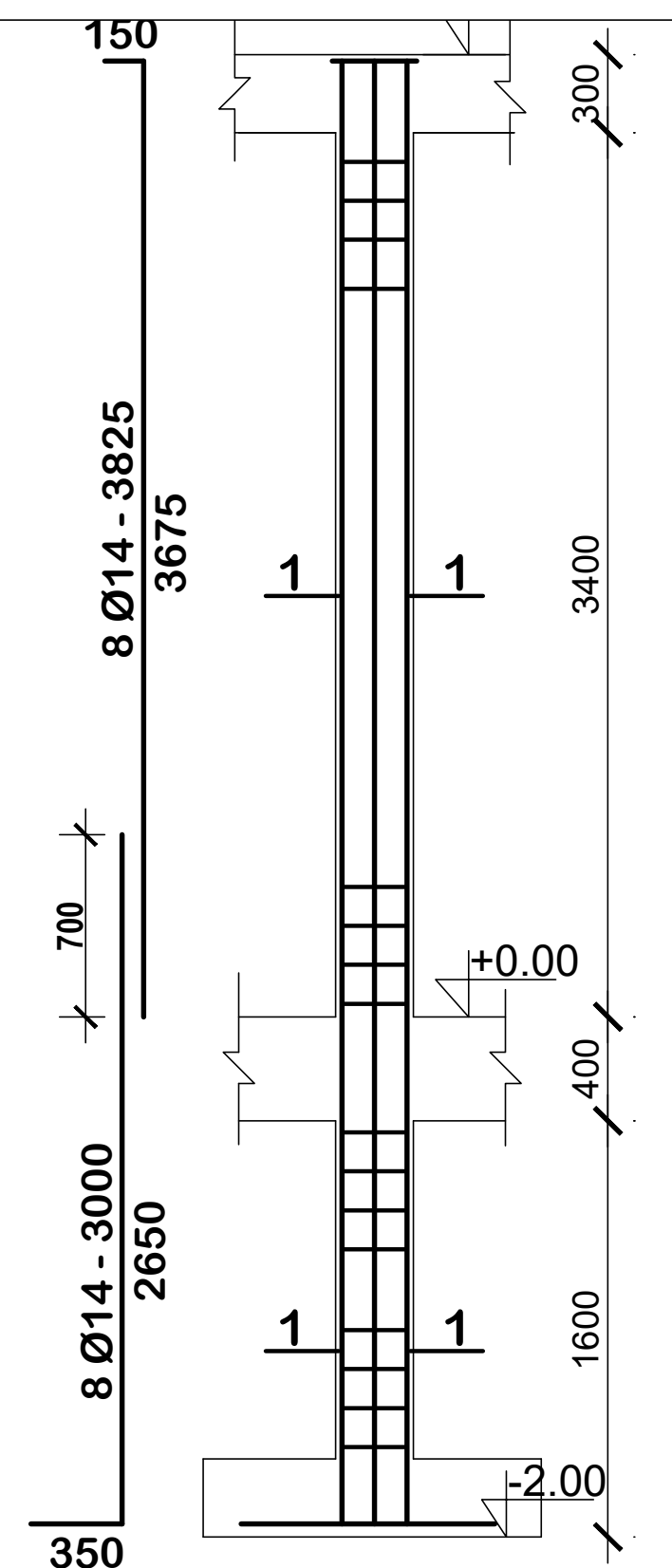
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Program:	Implemented By:
Response -Recovery-Resilience for conflict affected communities in Ethiopia	FDRE - Ministry of Finance UNOPS - ETMCO

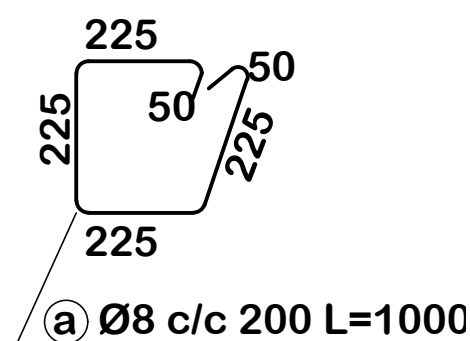
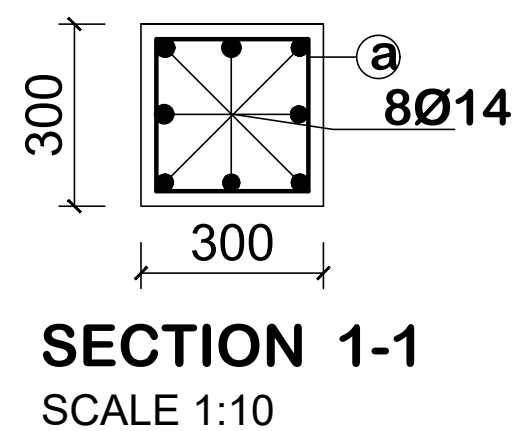
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(Examination room, Office and Store)
GROUND FLOOR SLAB REINFORCEMENT , BEAM AND COLUMN LAYOUT
(slab thickens =100mm) SCALE 1:50

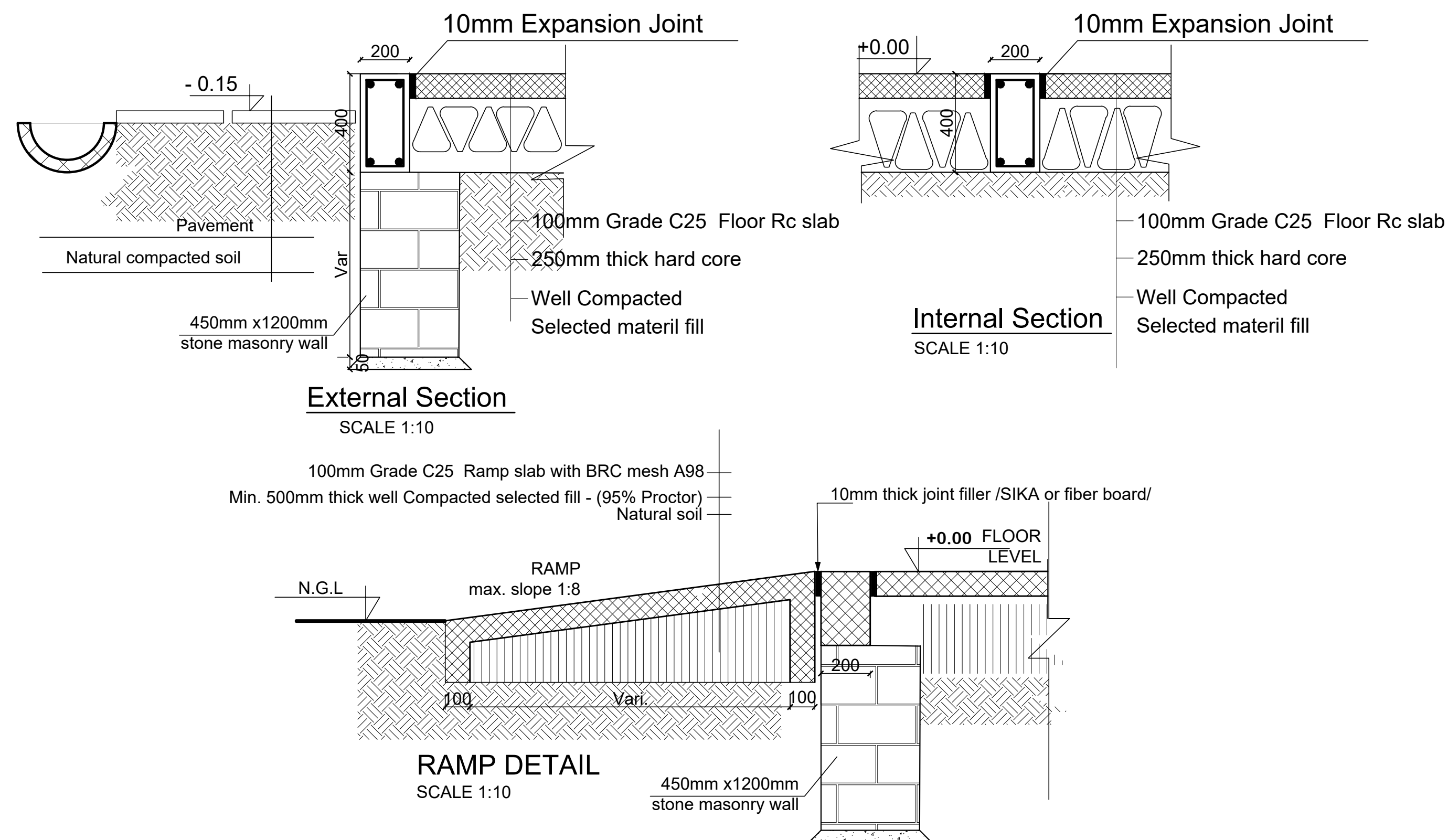


COLUMN C-1 (15 No.)
SCALE 1:25



Typical Ground Floor Slab Section & Masonry

SCALE 1:25



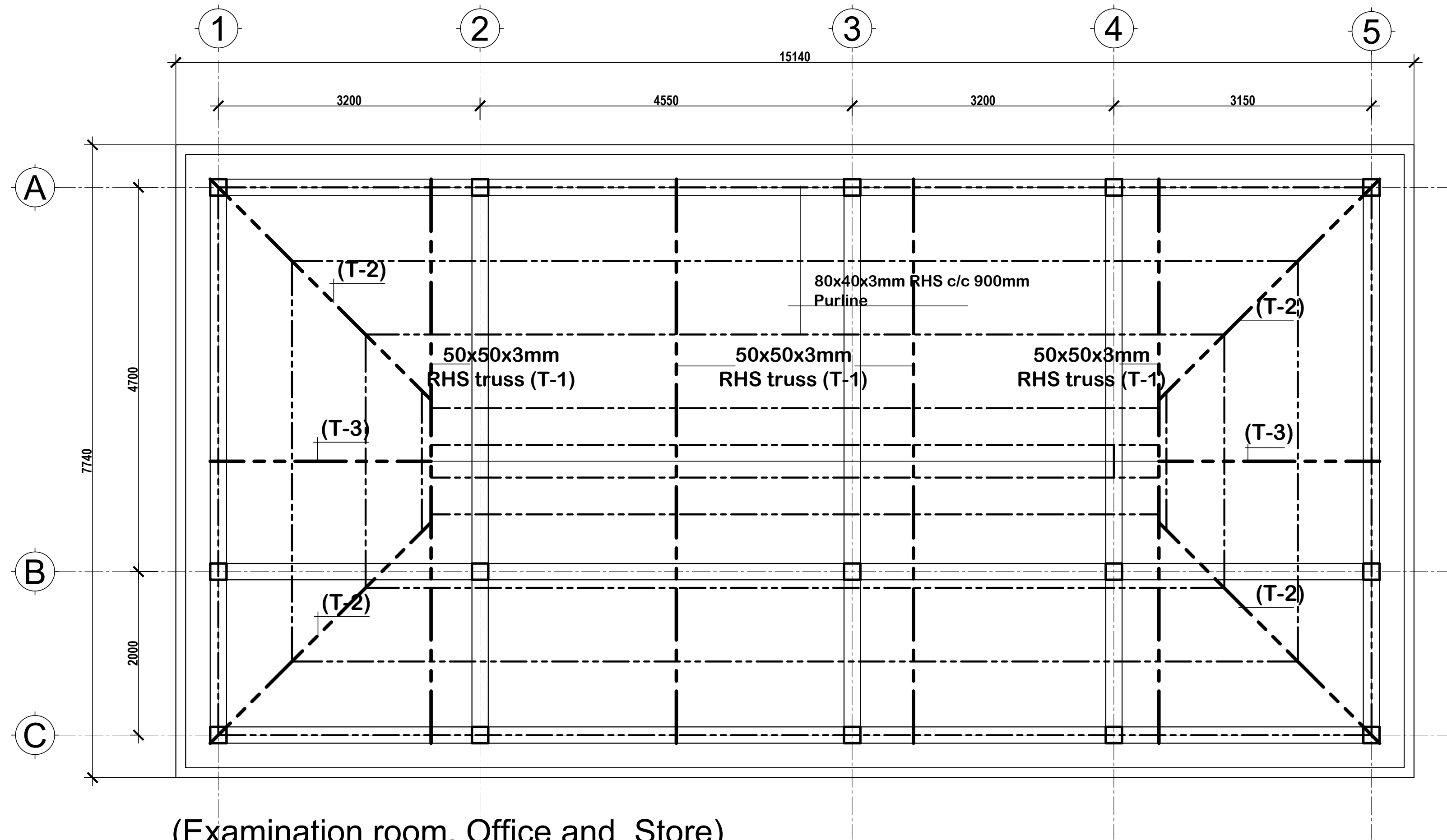
GENERAL NOTES:

Rev.	Date	Description	Approved
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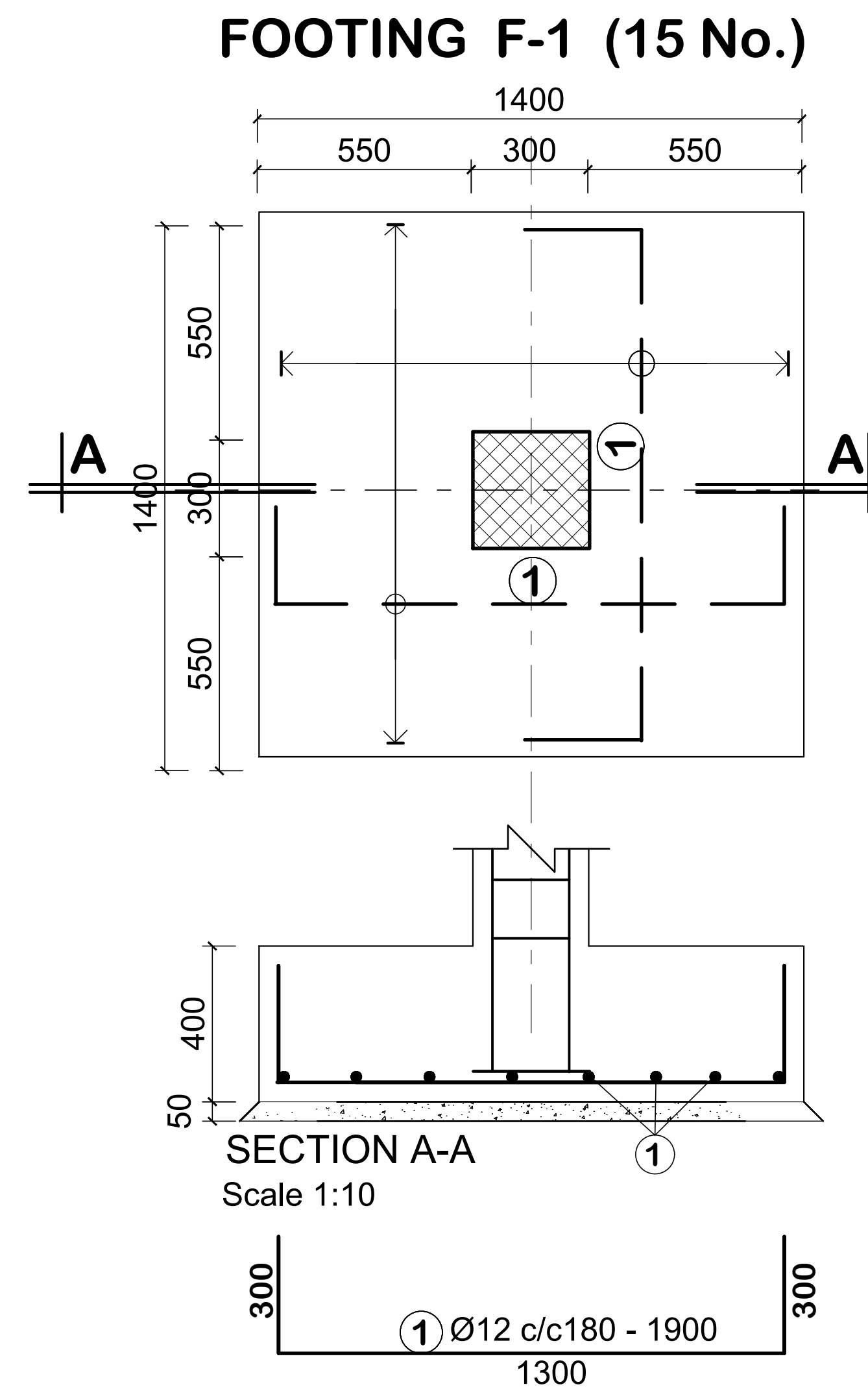
KEY PLAN

Funded By:	Partner:
World Bank	FDRE- Ministry of Finance
Program:	Implemented By:
Response -Recovery-Resilience for conflict affected communities in Ethiopia	FDRE - Ministry of Finance UNOPS - ETMCO
Project Name:	Design:
SEMRET HEALTH POST	UNOPS-ETMCO

Drawing Title:				
(OPD)				
GROUND FLOOR SLAB REINFORCEMENT , BEAM AND COLUMN LAYOUT				
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06 / 22 / 2023				0

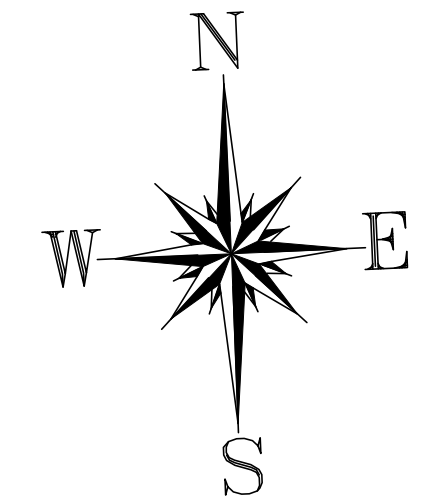


(Examination room, Office and Store)
ROOF BEAM AND TRUSS LAYOUT
SCALE 1:50



FOOTING F-1 (15 No.)

SECTION A-A
Scale 1:10



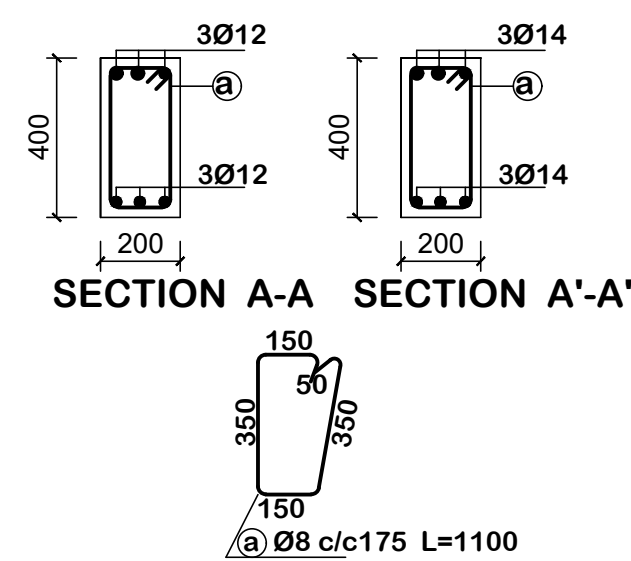
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Rev.	Date	Description	Approved
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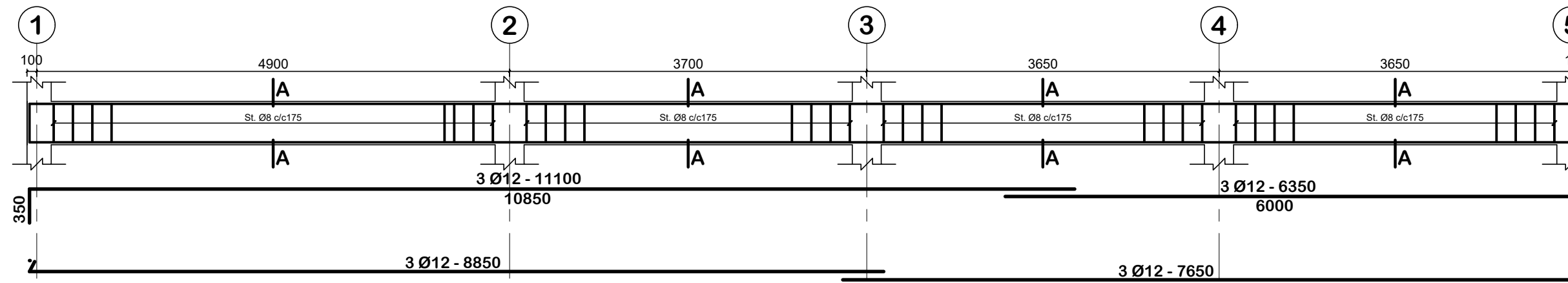
KEY PLAN

Funded By:	Partner:
World Bank	FDRE- Ministry of Finance
Program:	Implemented By:
Response -Recovery-Resilience for conflict affected communities in Ethiopia	FDRE - Ministry of Finance UNOPS - ETMCO
Project Name:	Design:
SEMRET HEALTH POST	UNOPS-ETMCO

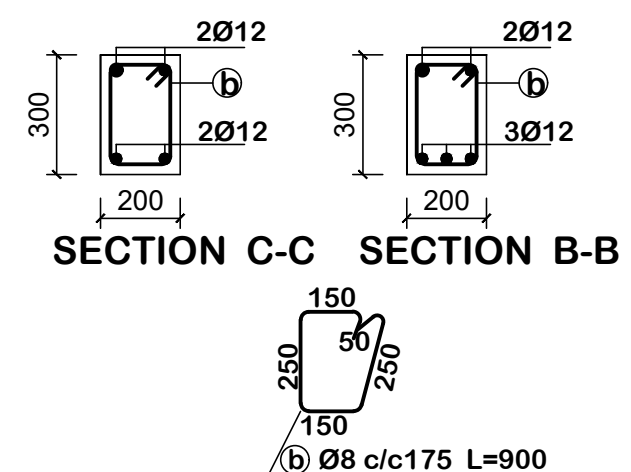
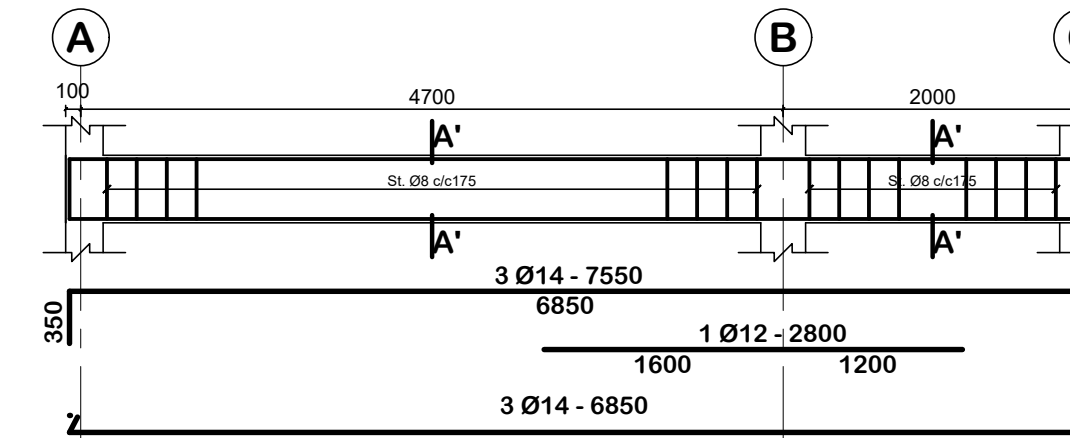
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(OPD)				
ROOF BEAM , TRUSS LAYOUT and BEAM DETAILS				
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06 / 22 /2023				0



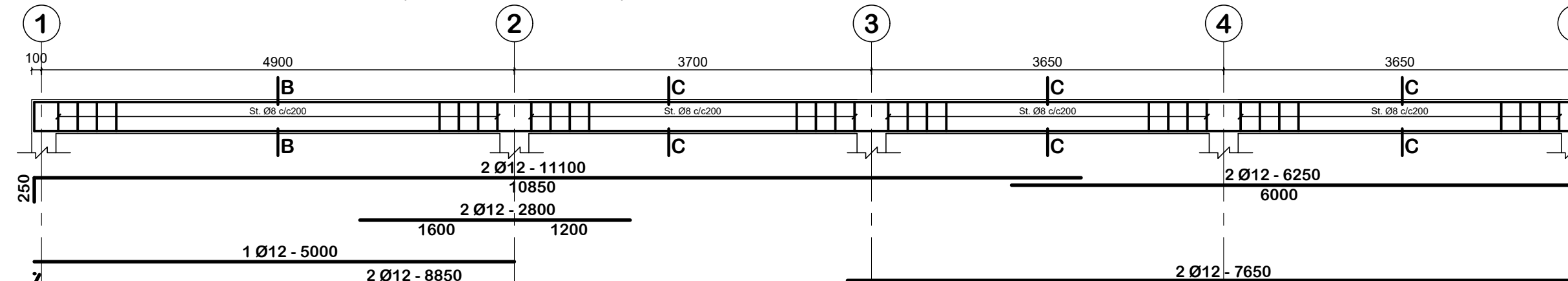
BEAM ON AXIS A ,B & C (AT LEVEL +0.00)



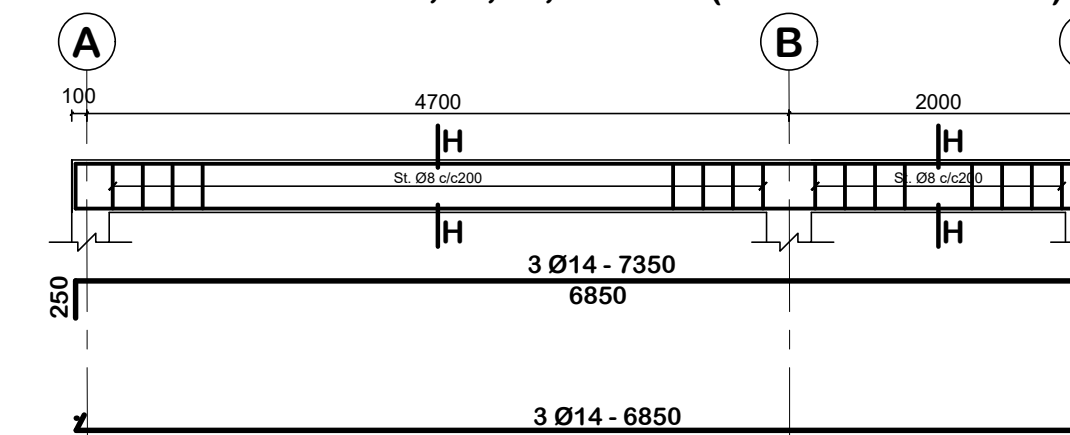
BEAM ON AXIS 1,2,3,4 & 5 (AT LEVEL +0.00)



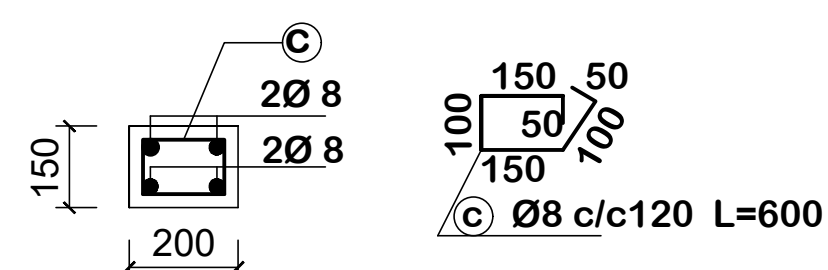
BEAM ON AXIS A ,B & C (AT LEVEL +3.70)

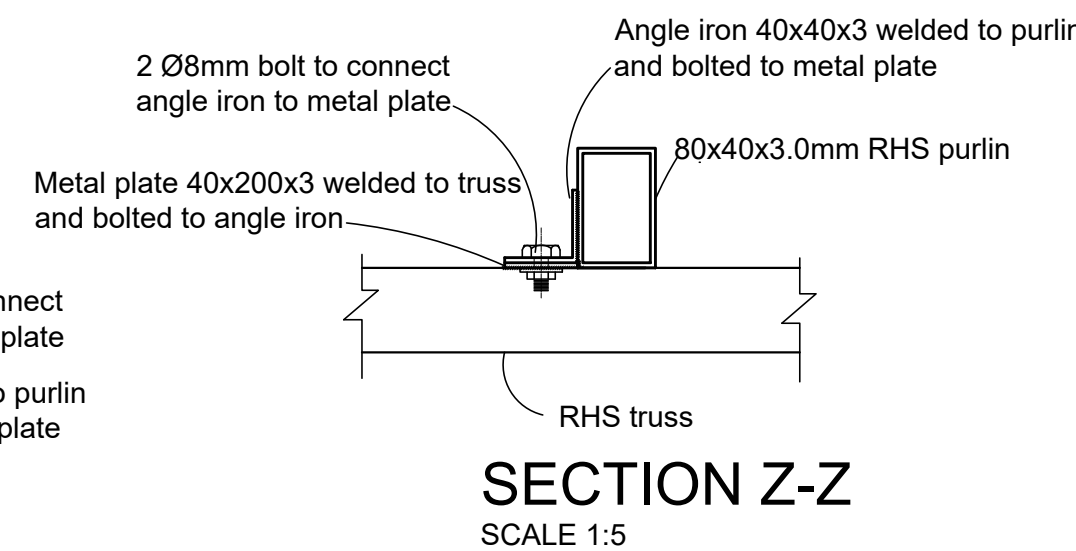
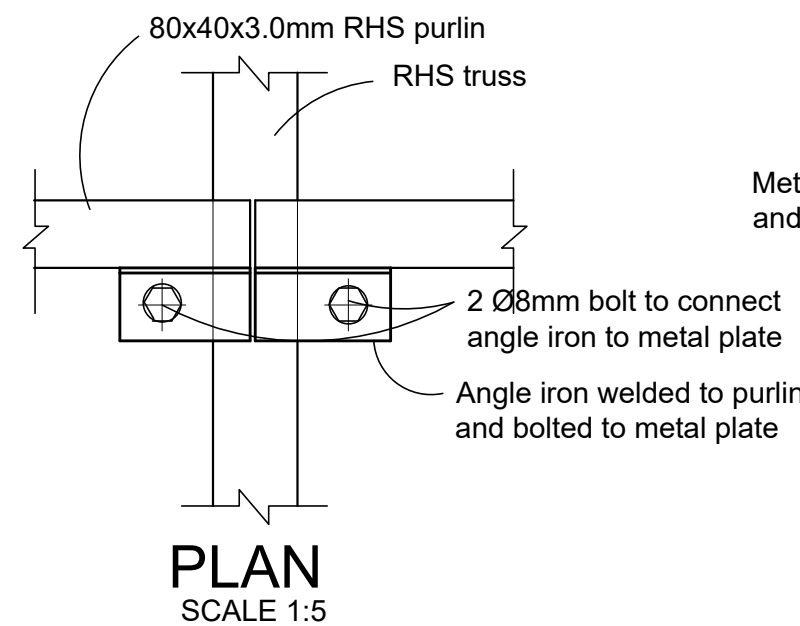
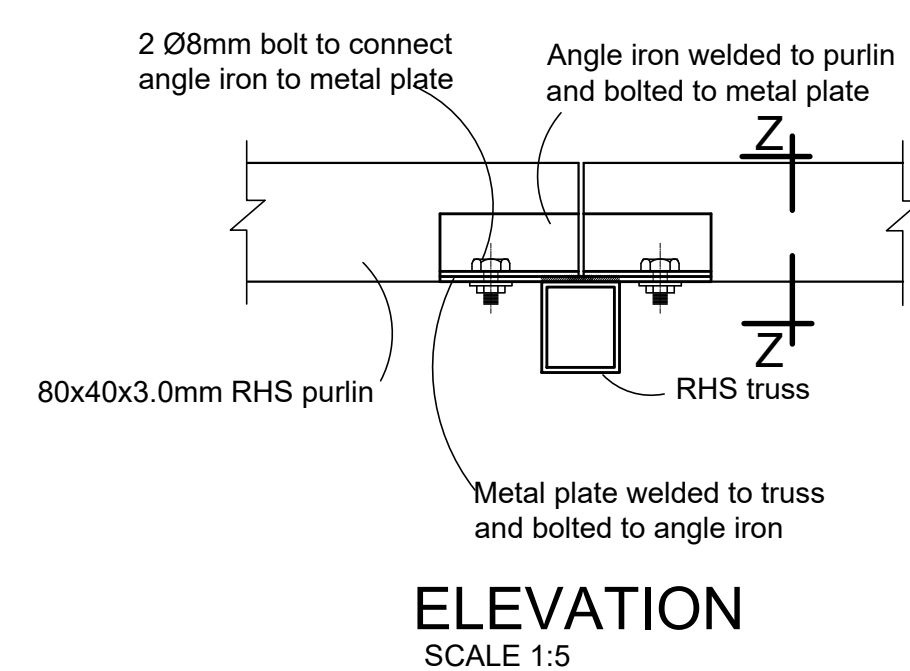
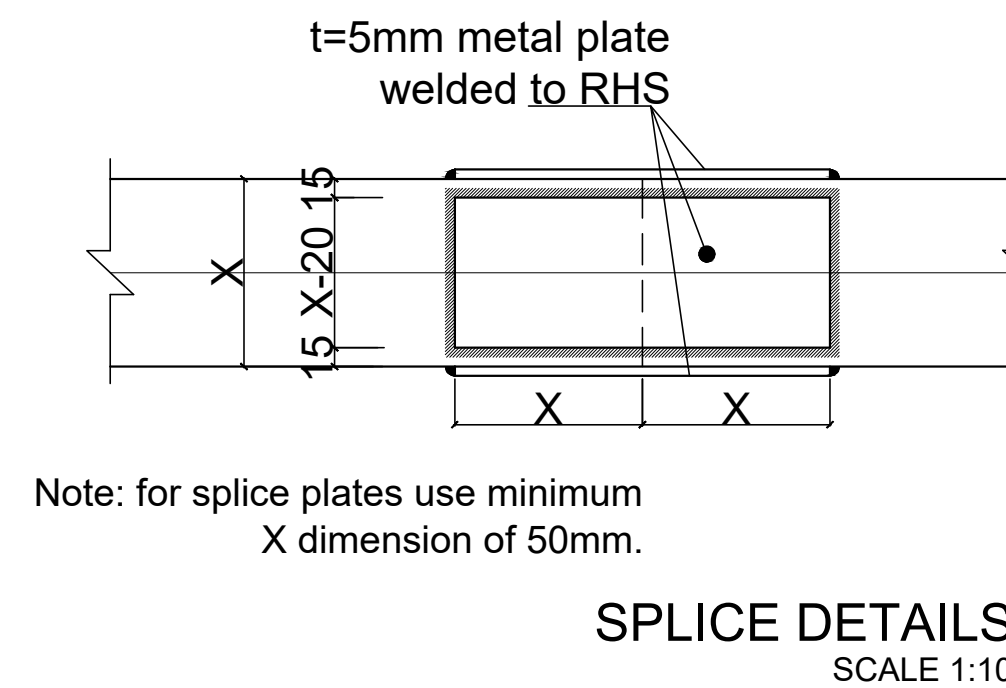
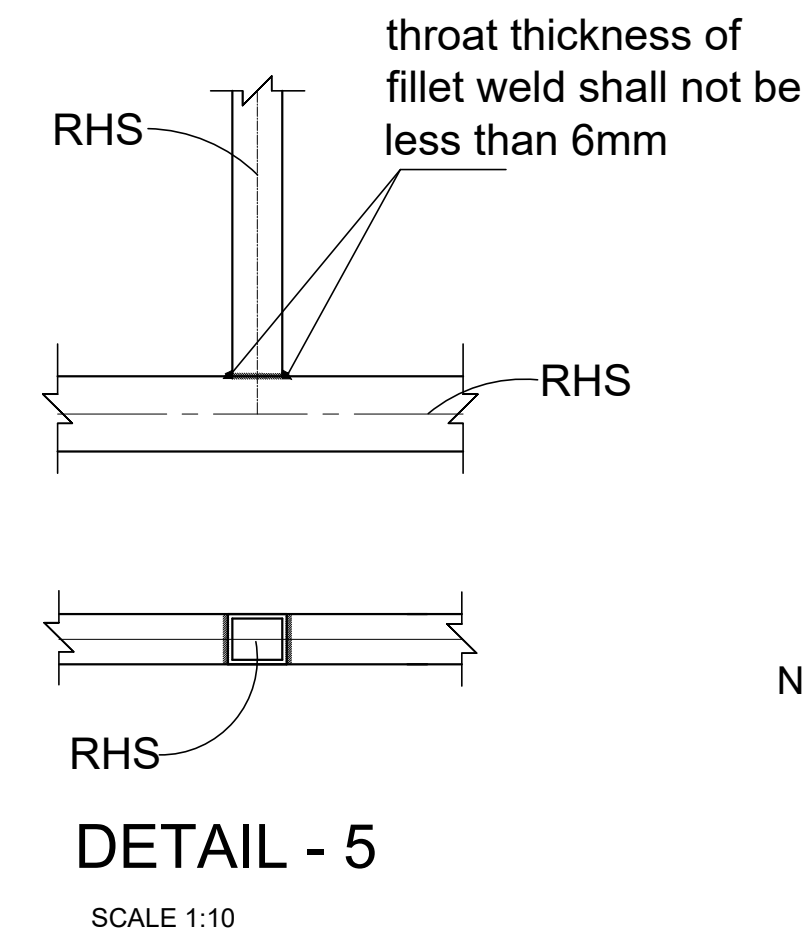
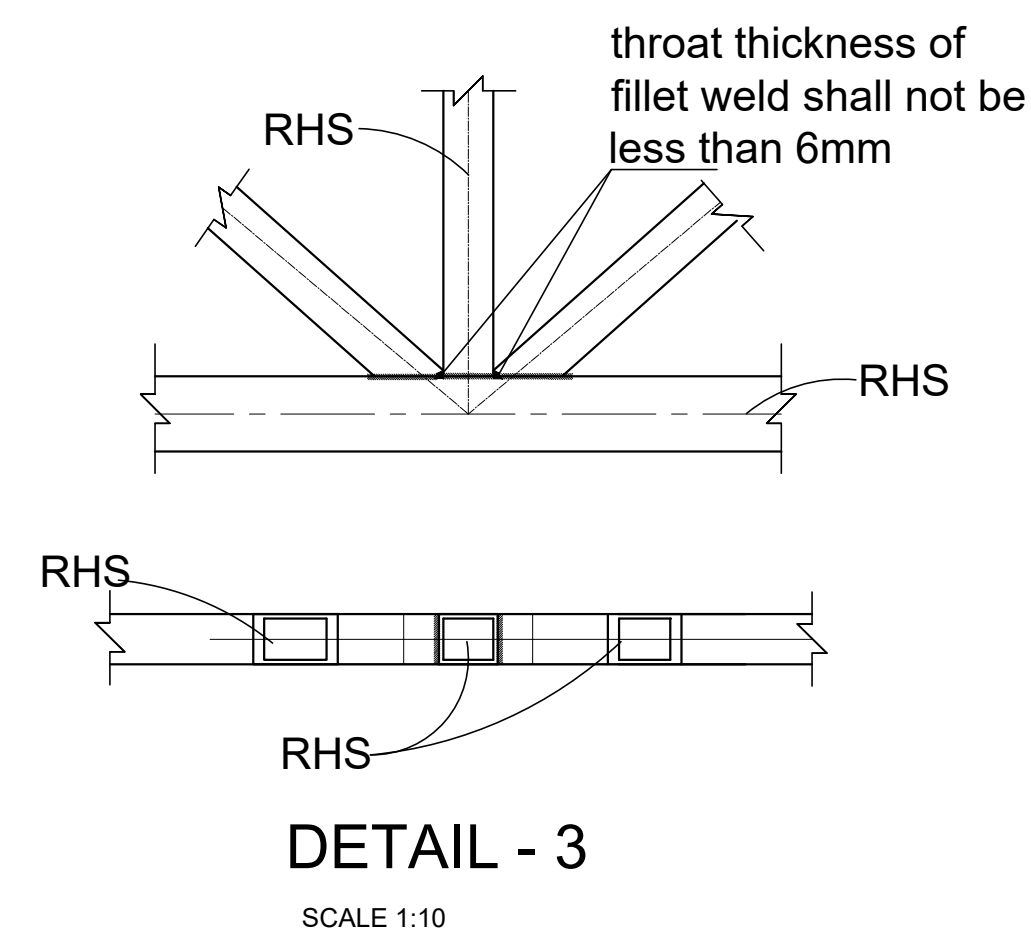
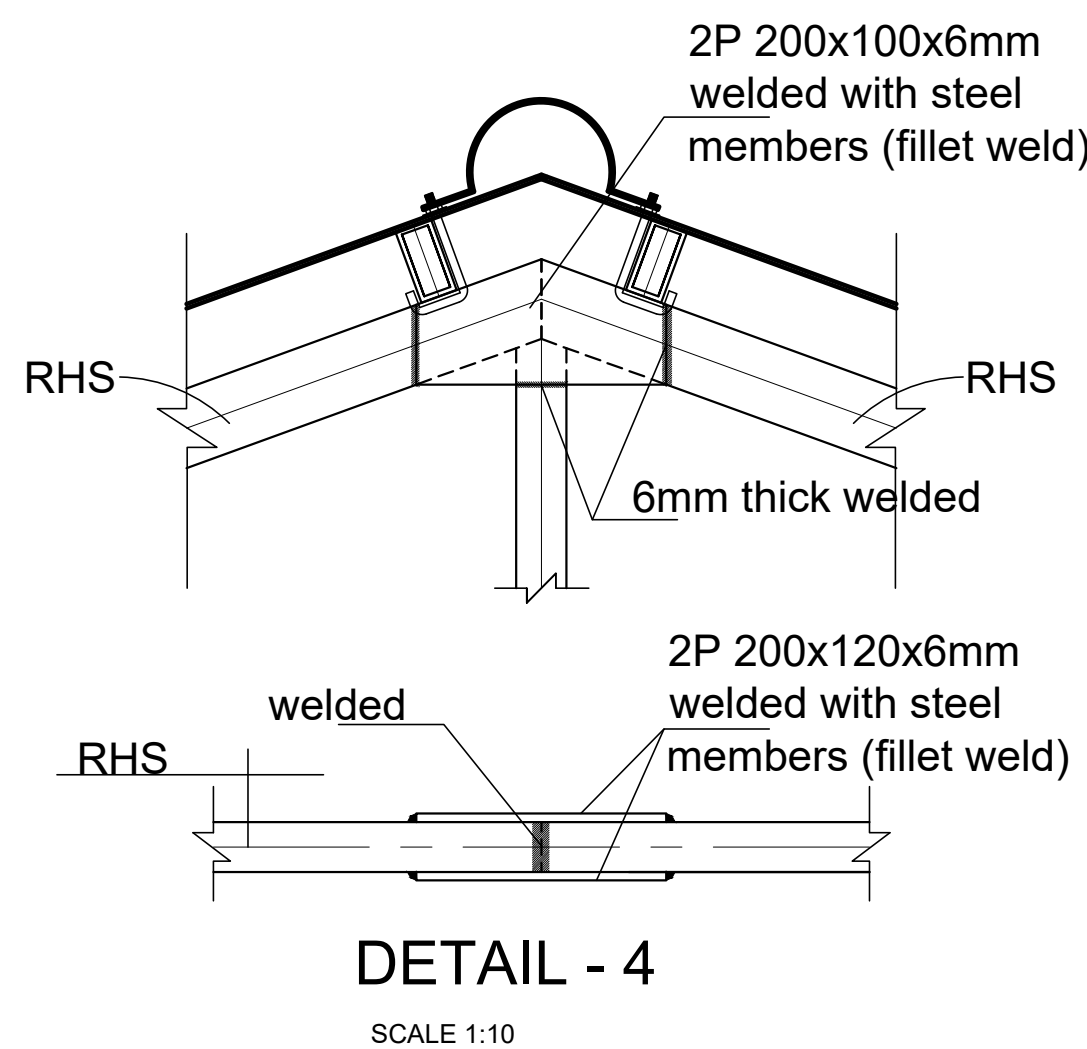
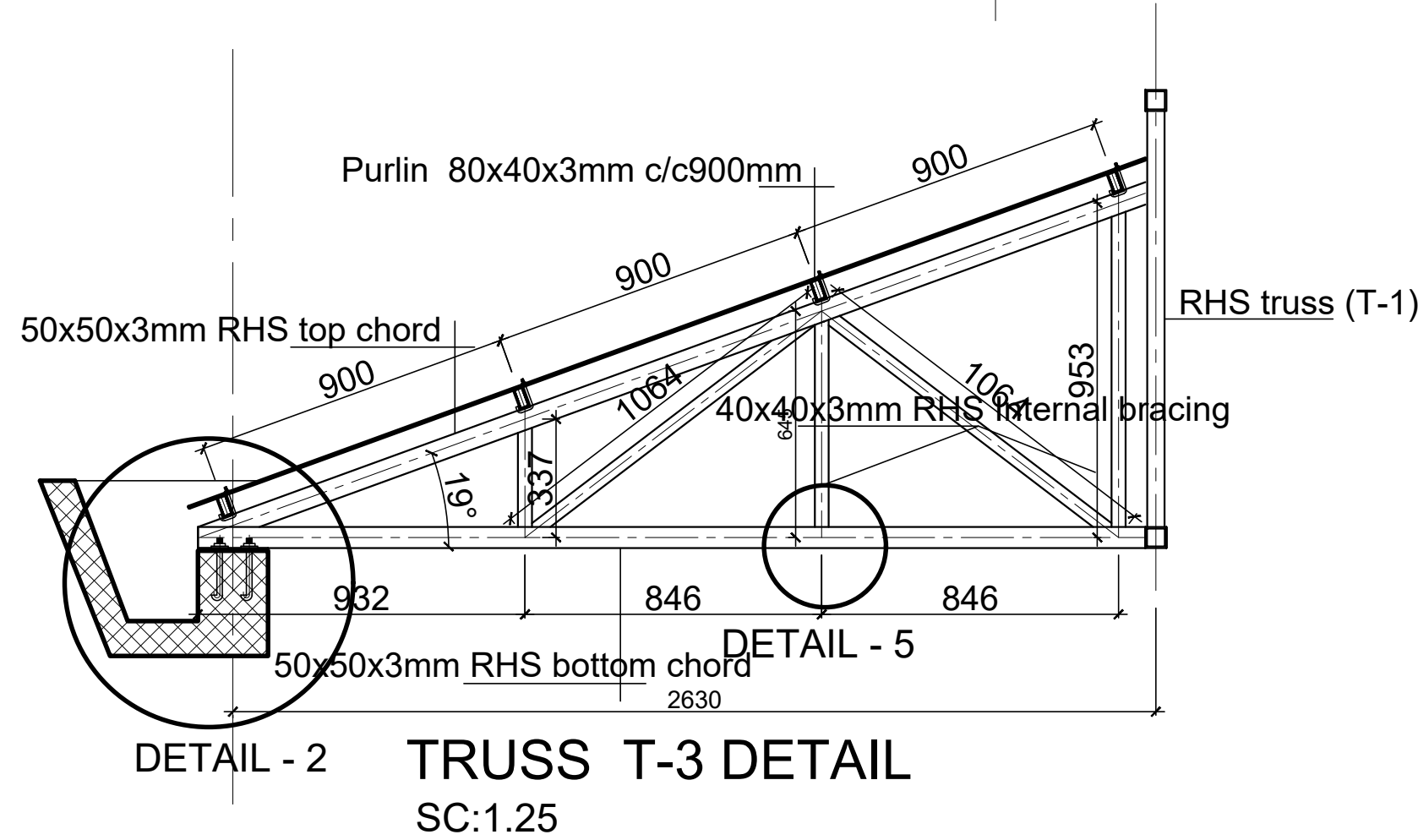
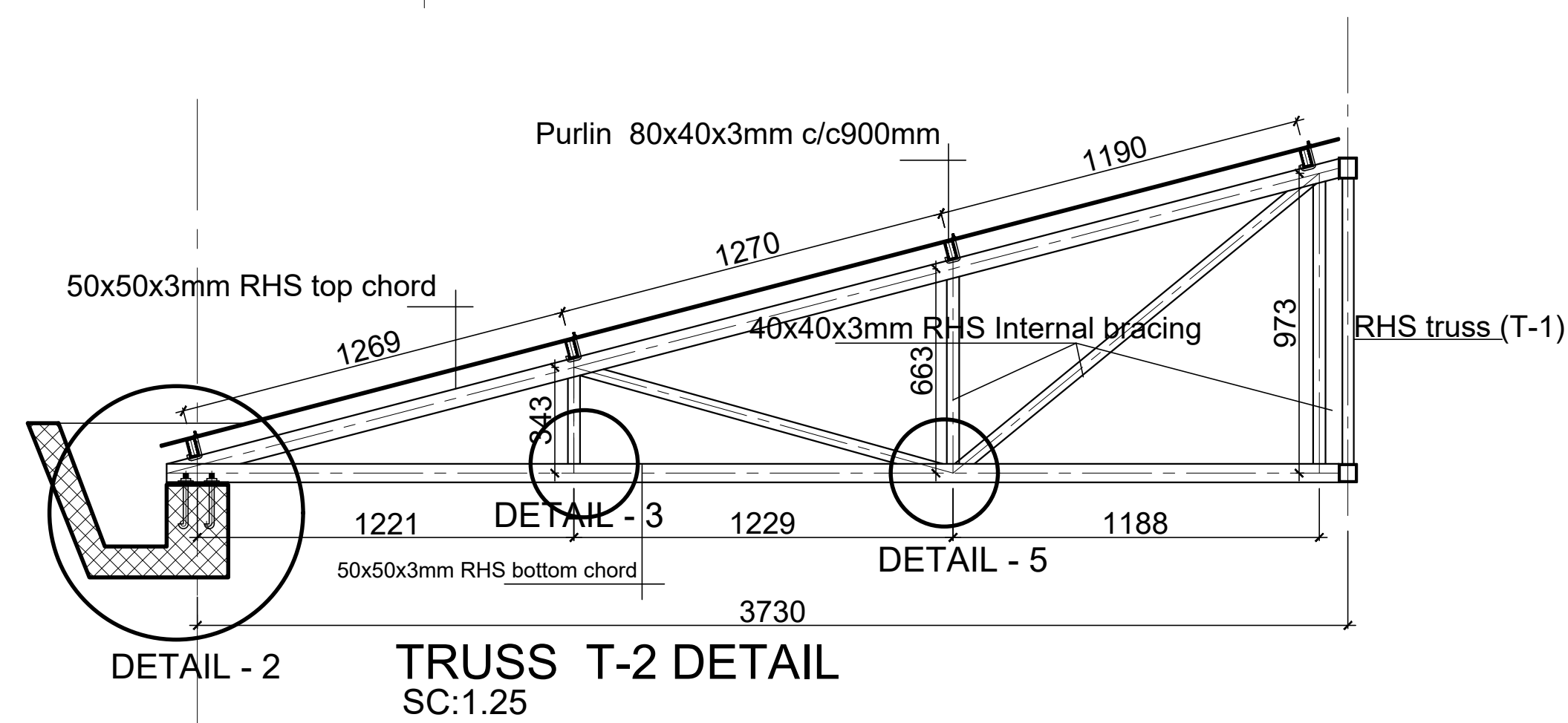
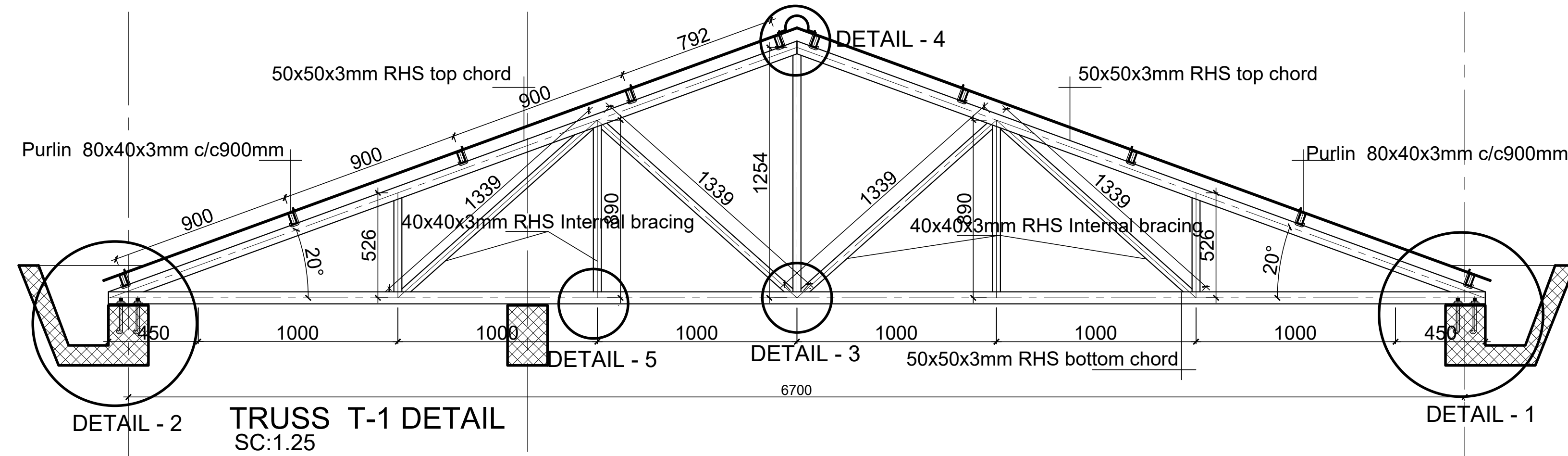


BEAM ON AXIS 1,2,3,4 & 5 (AT LEVEL +3.70)



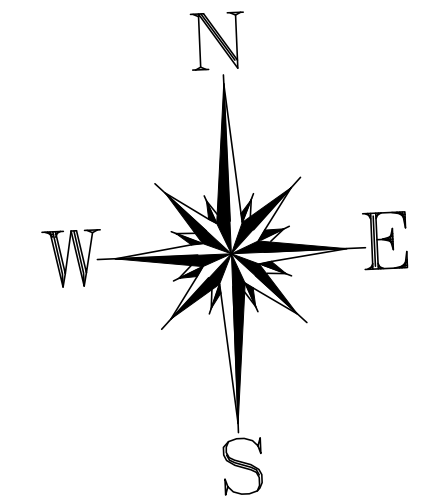
TYPICAL LINTEL BEAM SECTION





TRUSS & PURLIN CONNECTION DETAILS

GENERAL NOTES:

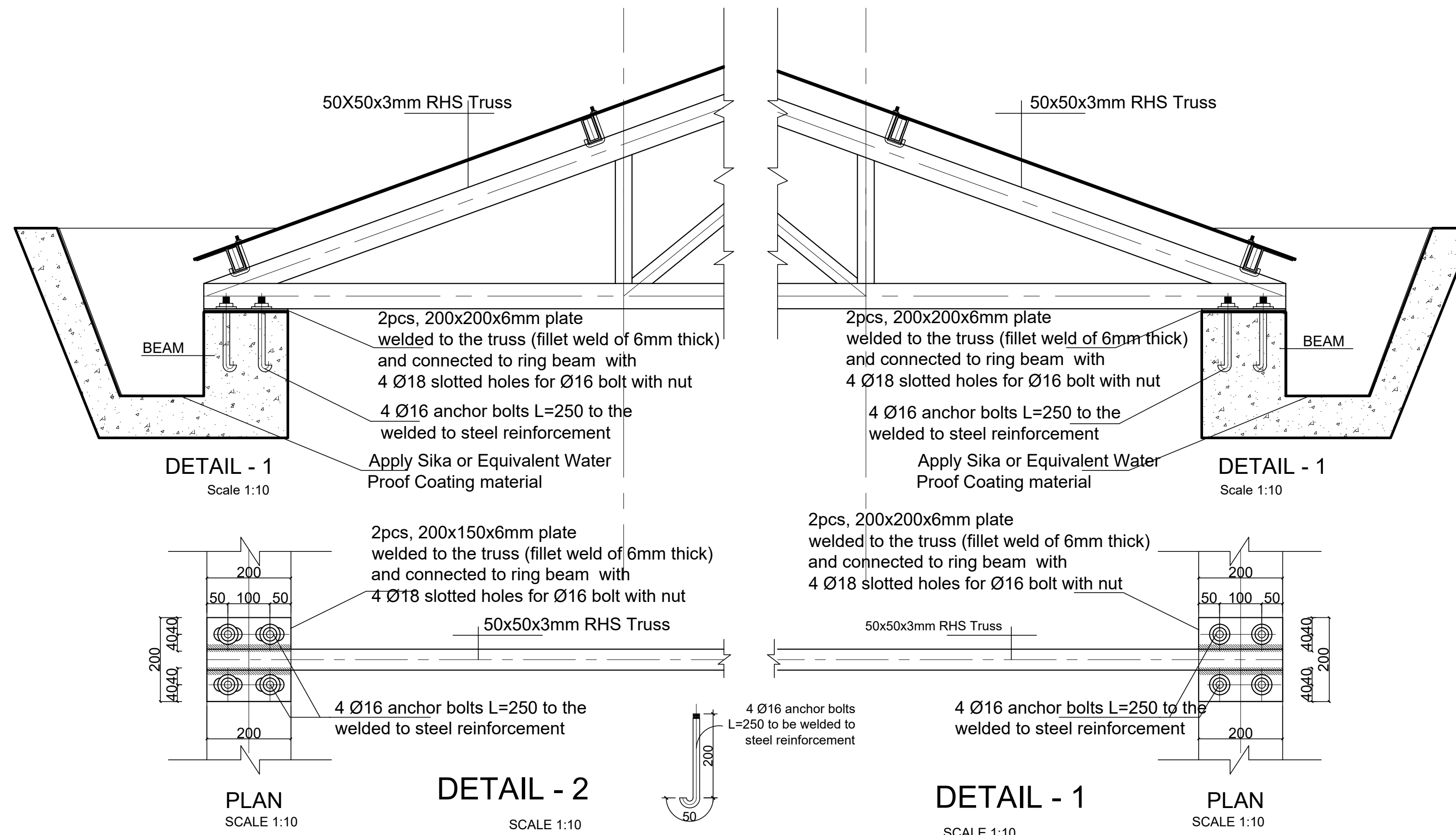


Rev.	Date	Description	Approved
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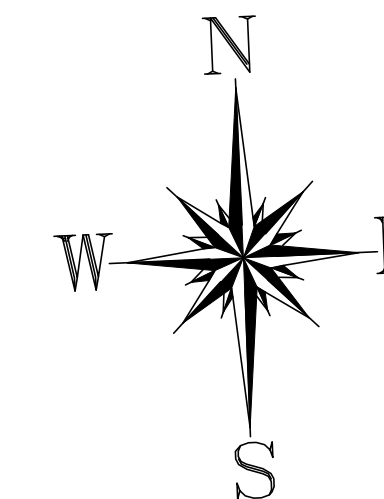
KEY PLAN

Funded By:	Partner:
World Bank	FDRE- Ministry of Finance
Program:	Implemented By:
Response -Recovery-Resilience for conflict affected communities in Ethiopia	FDRE - Ministry of Finance UNOPS - ETMCO
Project Name:	Design:
SEMRET HEALTH POST	UNOPS-ETMCO

Designed by	Discipline	Dr. No.	Tot. No.	Rev No.
NK	ST	04	09	R0
Drawn:	Checked:	Approved:	Size:	Scale:
FM	AE	SH	A1	1:25 1:10
Date:	Rev.:			
06 / 22 / 2023	0			



GENERAL NOTES:



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Rev.: Date: Description: Approved

KEY PLAN

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Funded By: Partner:

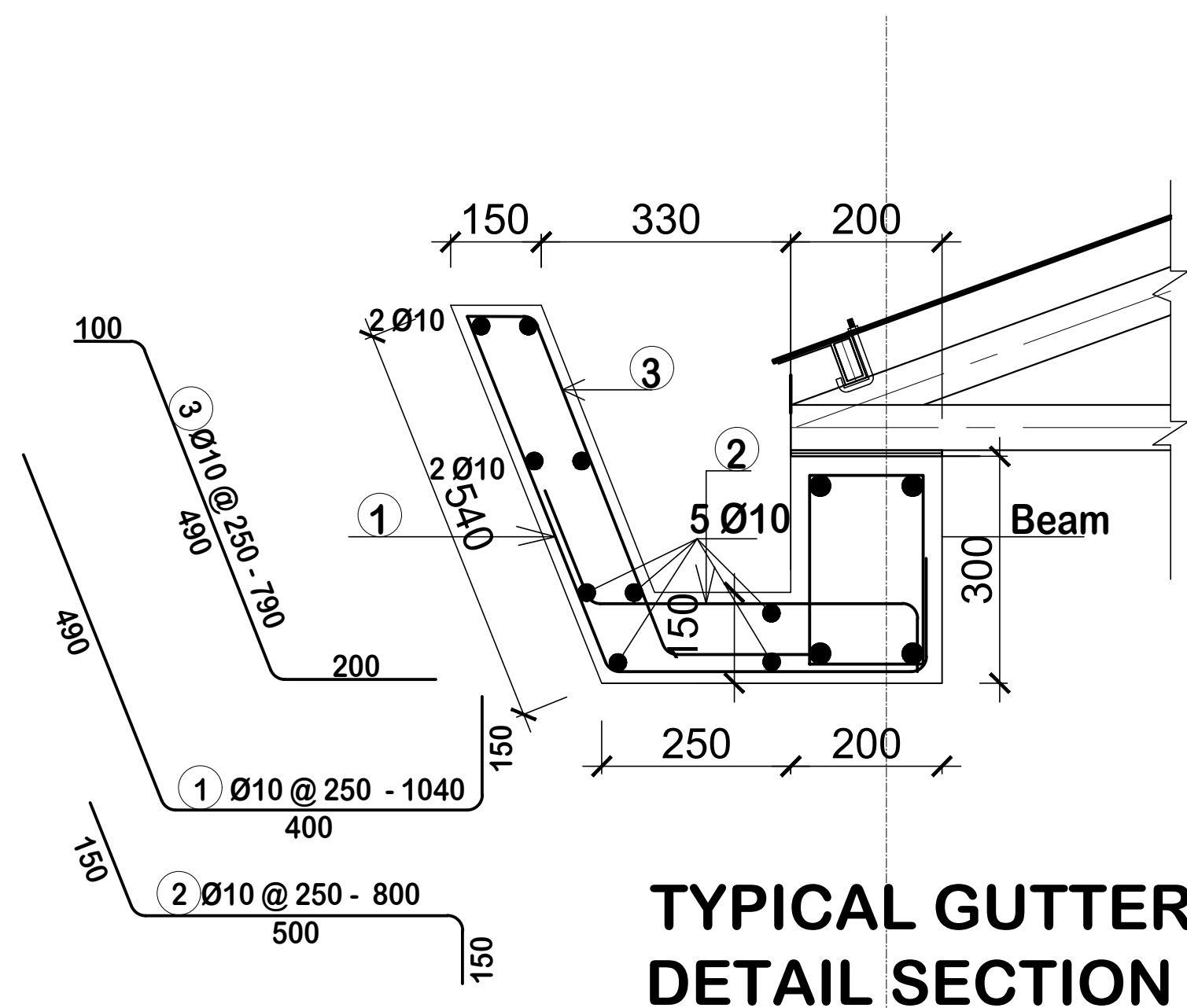
World Bank FDRE- Ministry of Finance

Program: Response -Recovery-Resilience for conflict affected communities in Ethiopia Implemented By: FDRE - Ministry of Finance UNOPS - ETMCO

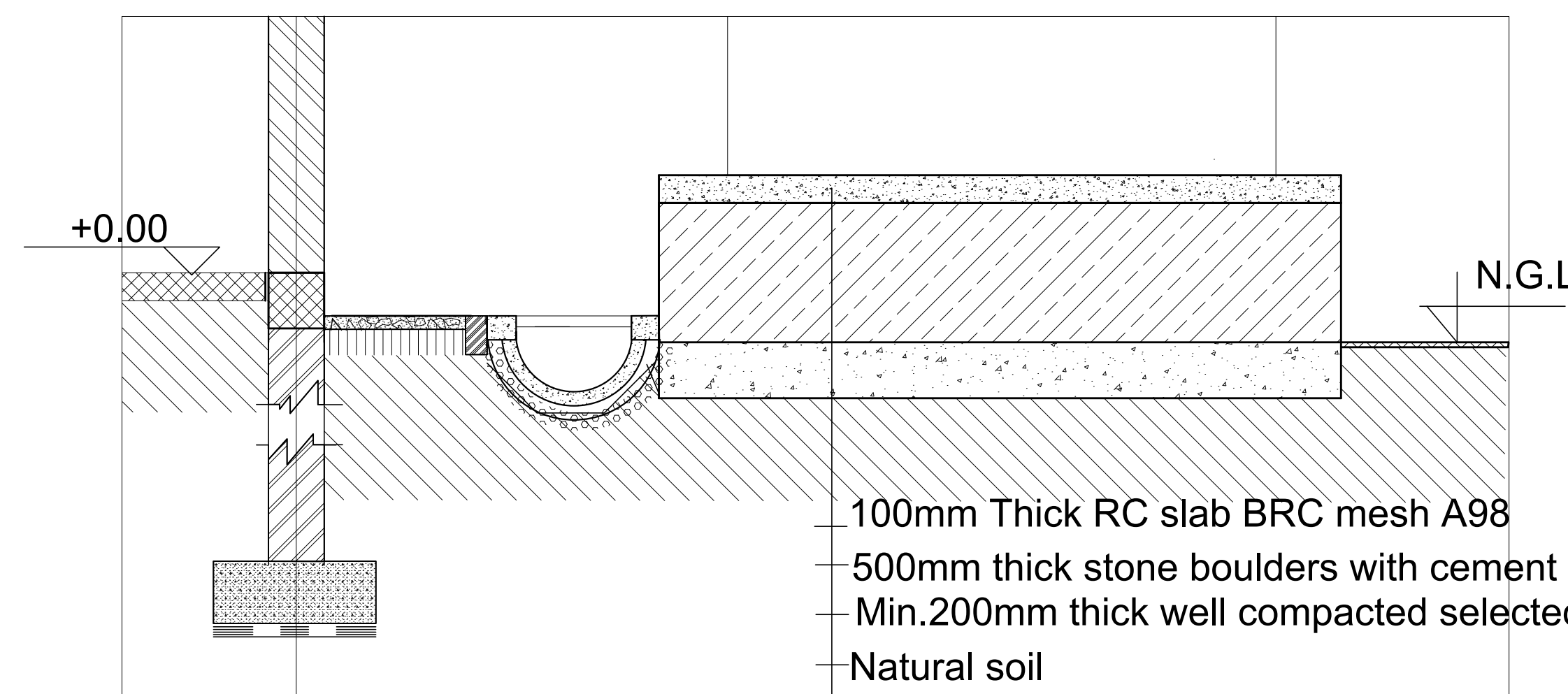
Project Name: SEMRET HEALTH POST Design: UNOPS-ETMCO

Drawing Title: (OPD) STEEL TRUSS & CONCRETE GUTTER DETAILS

Designed by	Discipline	Dr. No.	Tot. No.	Rev No.
NK	ST	05	10	R0
Drawn:	Checked:	Approved:	Size:	Scale:
FM	AE	SH	A1	1:25 1:10
Date:	Rev.:			
06 / 22 /2023	0			

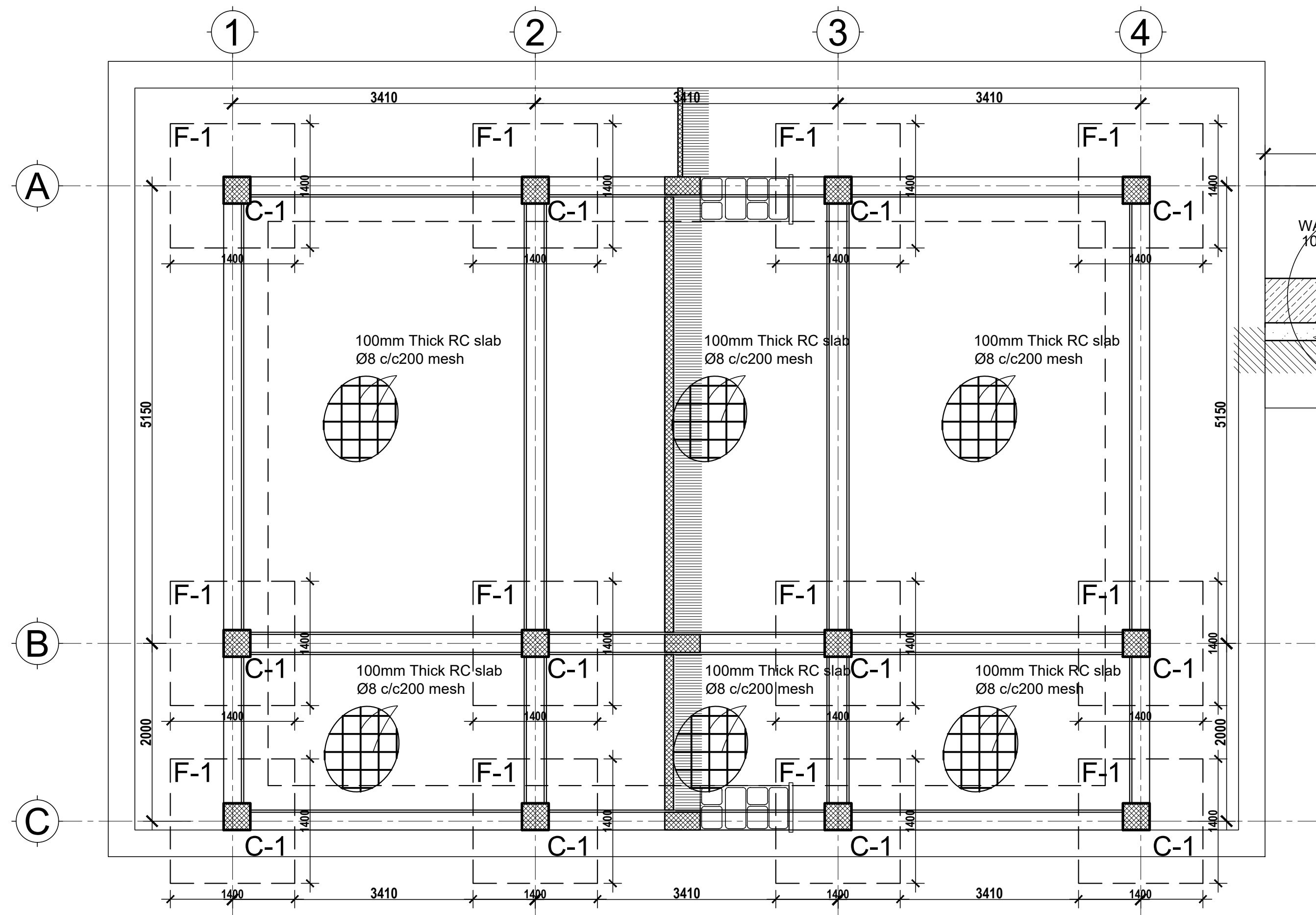


TYPICAL GUTTER
DETAIL SECTION



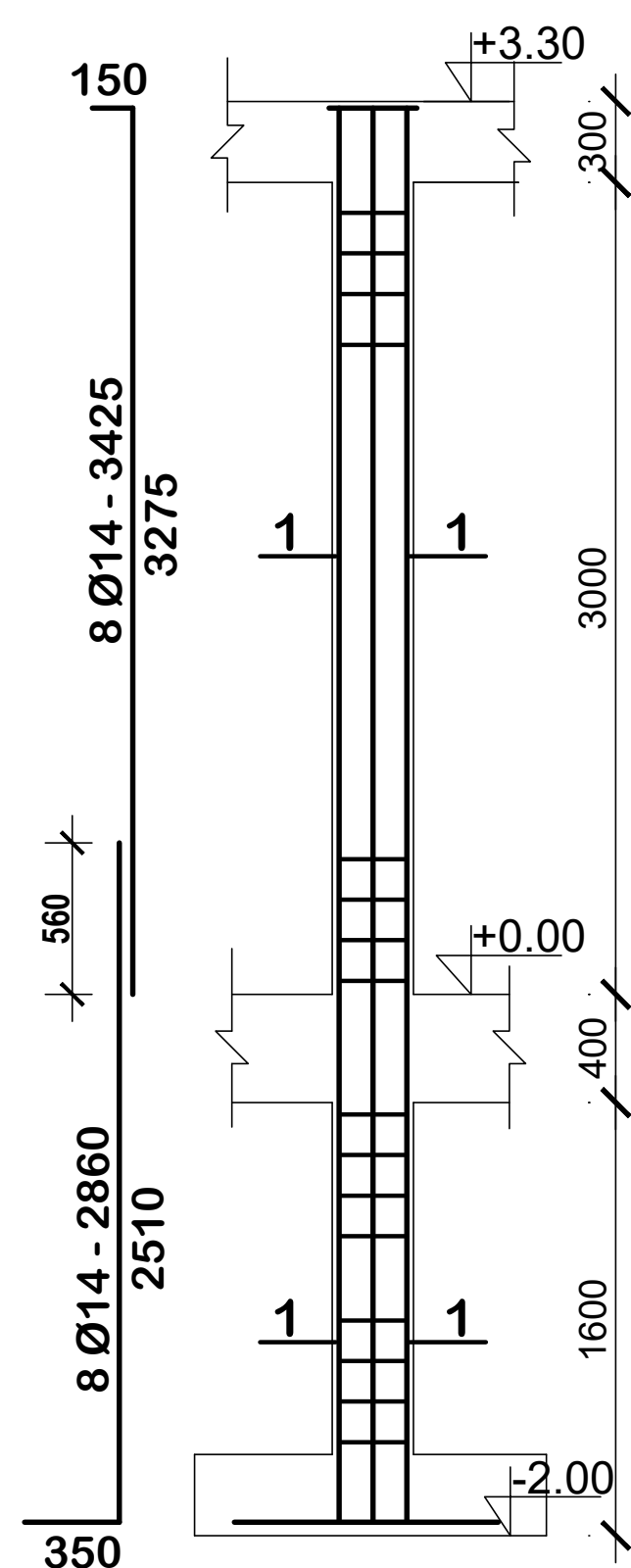
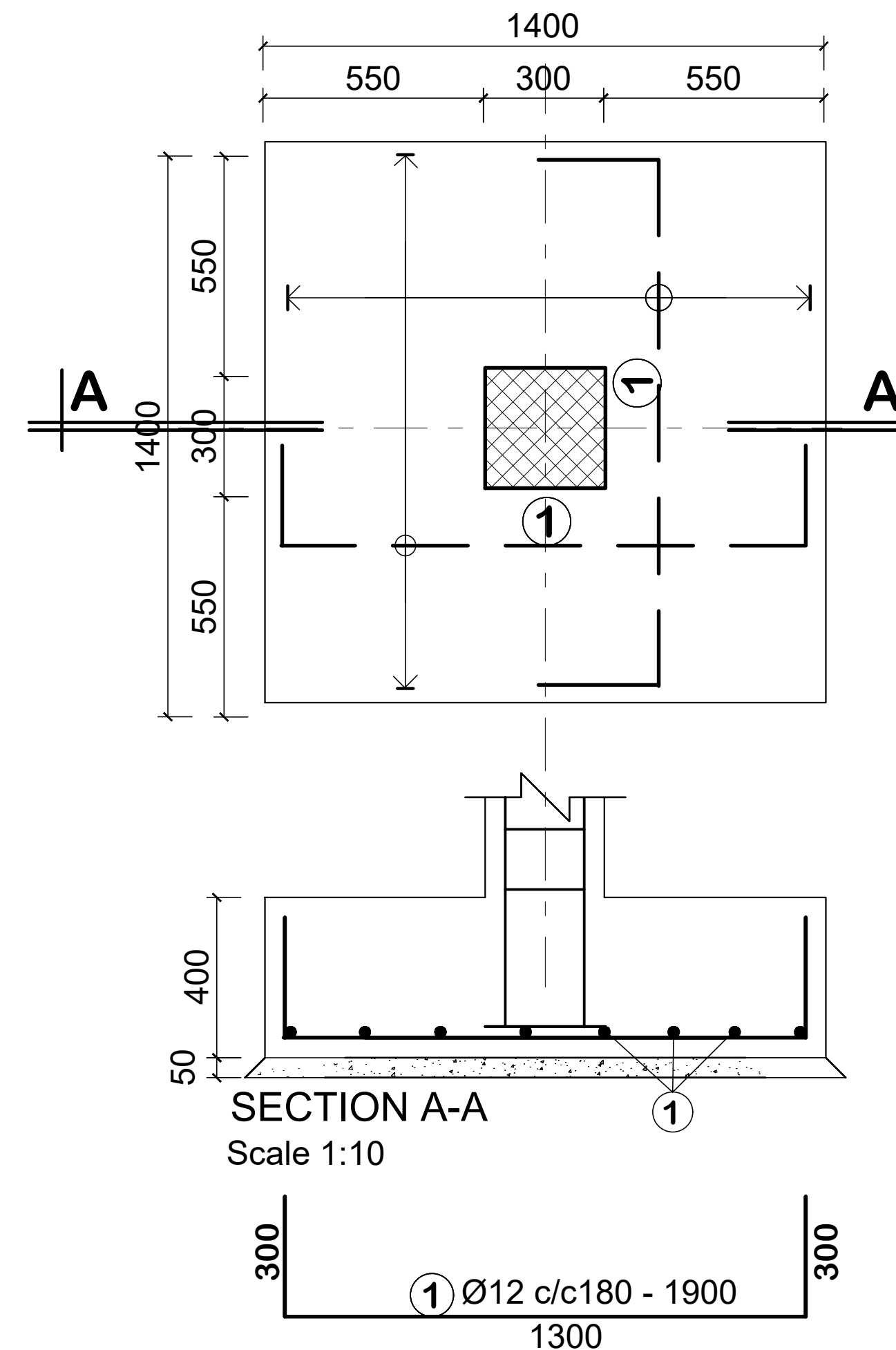
WATER RESERVOIR DETAILS SECTION
Sc. 1:25

- 100mm Thick RC slab BRC mesh A98
- 500mm thick stone boulders with cement mortar
- Min.200mm thick well compacted selected fill (95% proctor)
- Natural soil

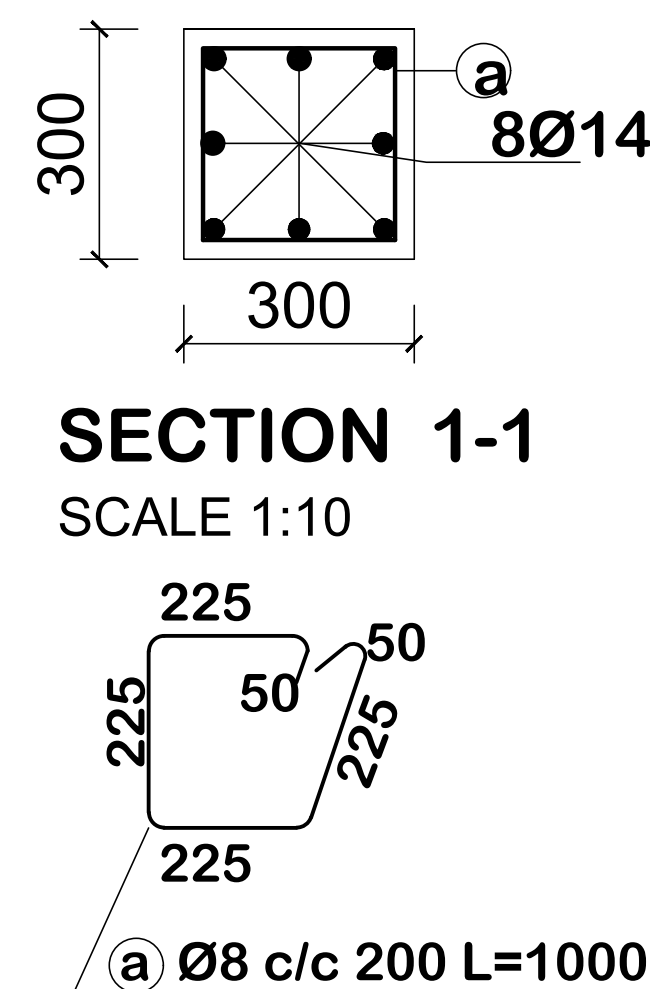


(STAFF RESIDENCE)
GROUND FLOOR SLAB REINFORCEMENT , STRIP FOUNDATION, BEAM, COLUMN
AND FOOTING LAYOUT SCALE 1:50
(slab thickens =100mm)

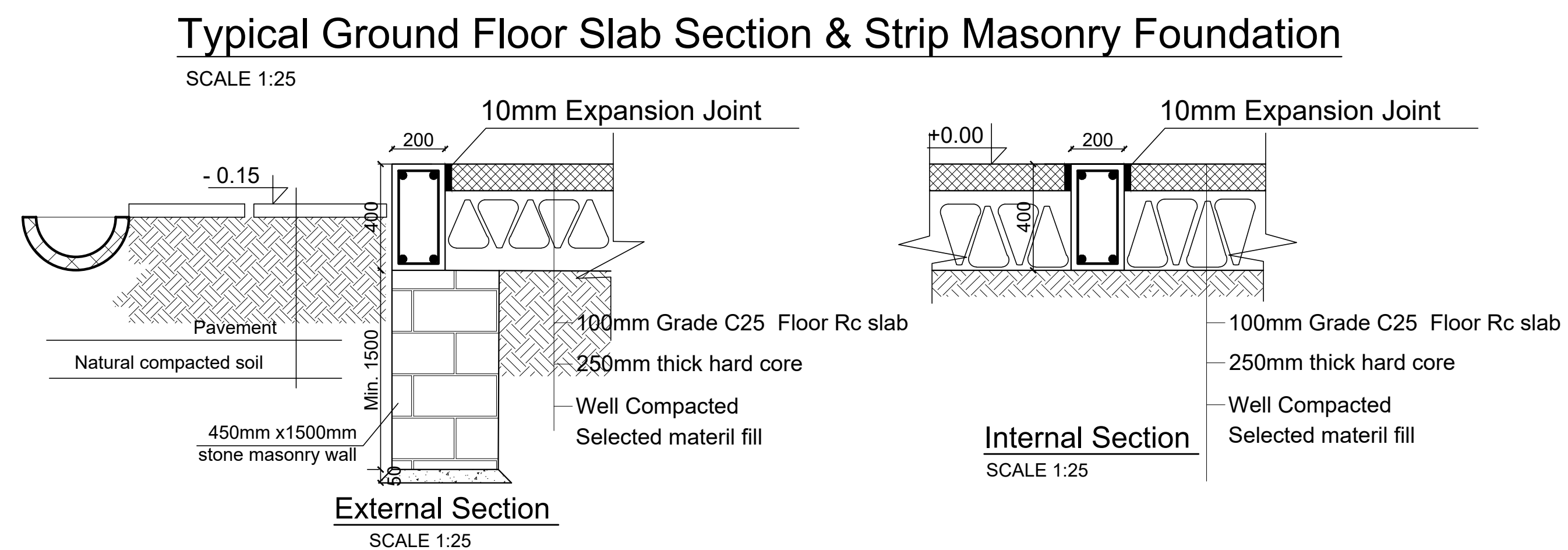
FOOTING F-1 (12 No.)



COLUMN C-1 (12 No.)
SCALE 1:25



SECTION 1-1
SCALE 1:10



Typical Ground Floor Slab Section & Strip Masonry Foundation
SCALE 1:25

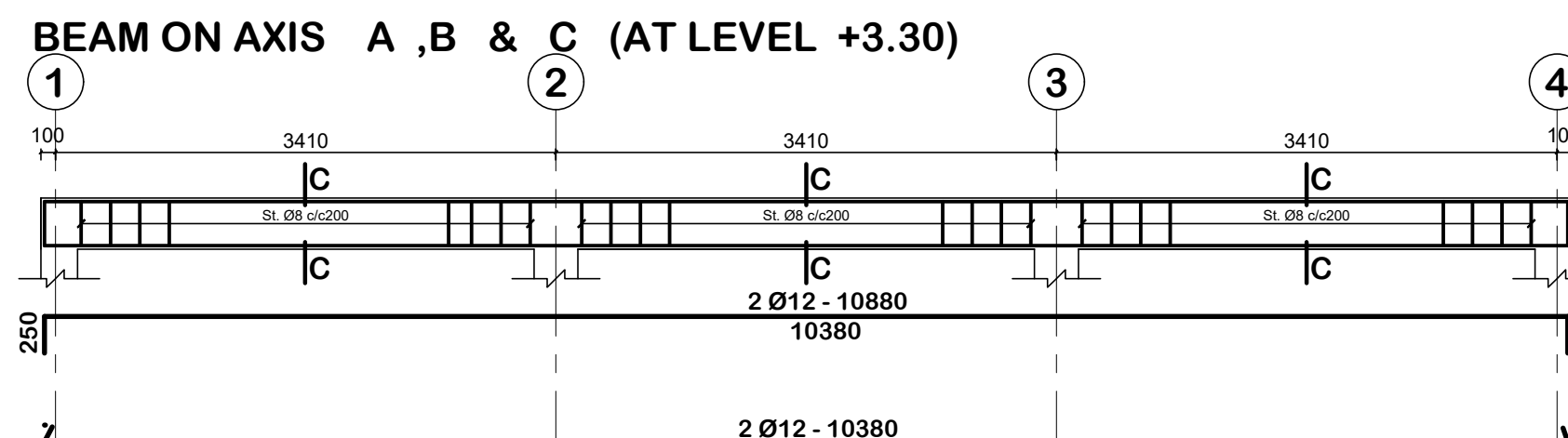
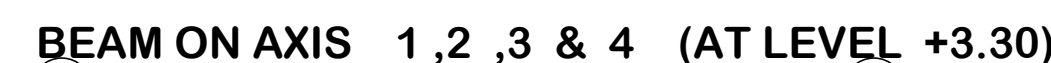
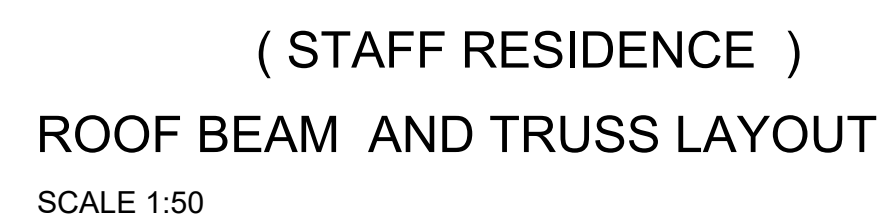
GENERAL NOTES:

Rev.	Date:	Description:	Approved
0			

KEY PLAN

Funded By:	Partner:
World Bank	FDRE - Ministry of Finance
Program:	Implemented By:
Response -Recovery-Resilience for conflict affected communities in Ethiopia	FDRE - Ministry of Finance UNOPS - ETMCO
Project Name:	Design:
SEMRET HEALTH POST	UNOPS-ETMCO

Designed by	Discipline:	Dr. No:	Tot. No:	Rev No:
NK	ST	06	10	R0
Drawn:	Checked:	Approved:	Size:	Scale:
FM	AE	SH	A1	1:50 , 1:25
Date:	Rev.:			
06 / 18 /2023	0			



GENERAL NOTES:

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Rev.:	Date:	Description:		Approved

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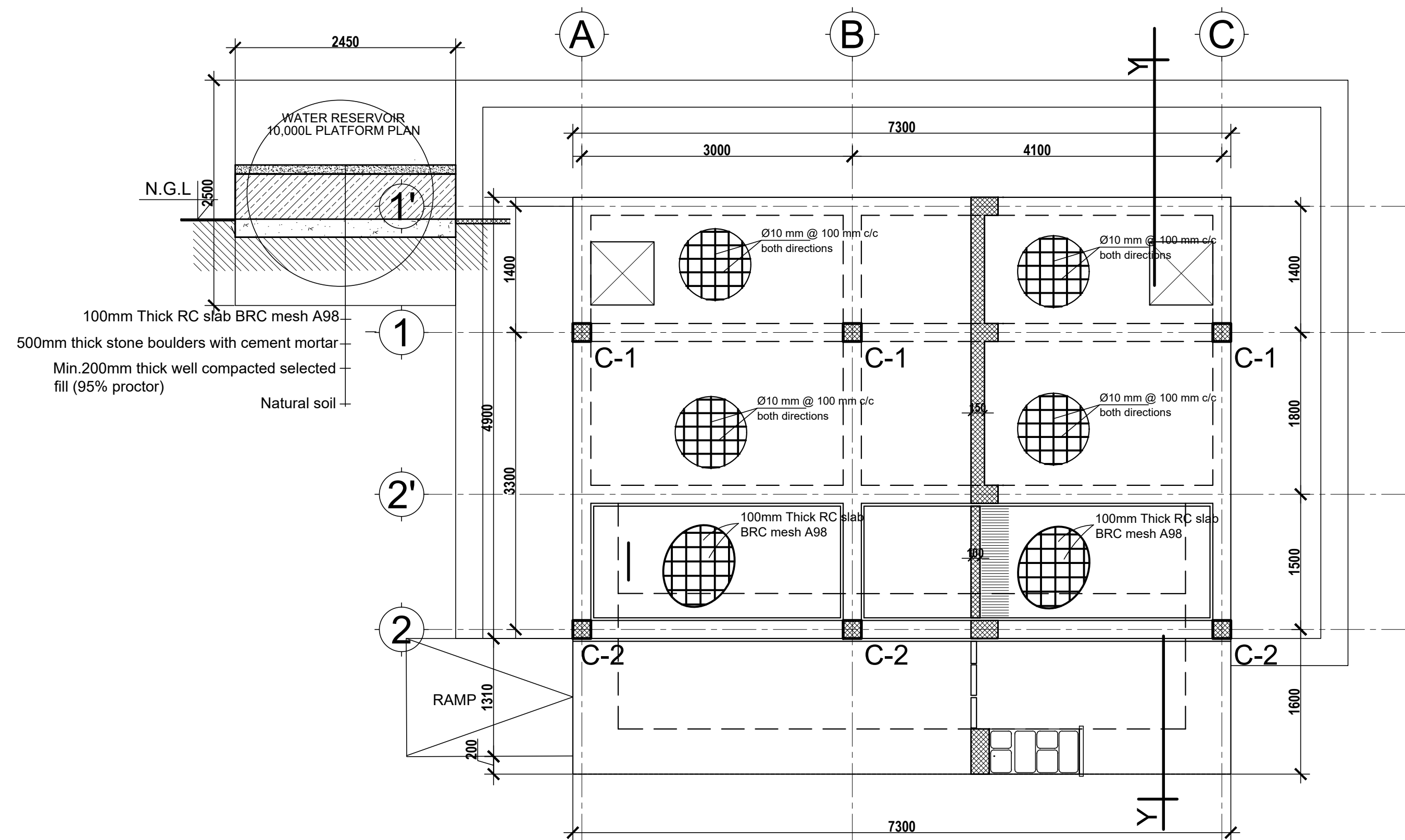
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<p>Program:</p> <p>Response -Recovery-Resilience for conflict affected communities in Ethiopia</p>		<p>Implemented by:</p> <p>FDRE - Ministry of Finance UNOPS - ETMCO</p>	
<p>Project Name:</p> <p>SEMRET HEALTH POST</p>		<p>Design:</p> <p>UNOPS-ETMCO</p> <div>  UNOPS </div>	

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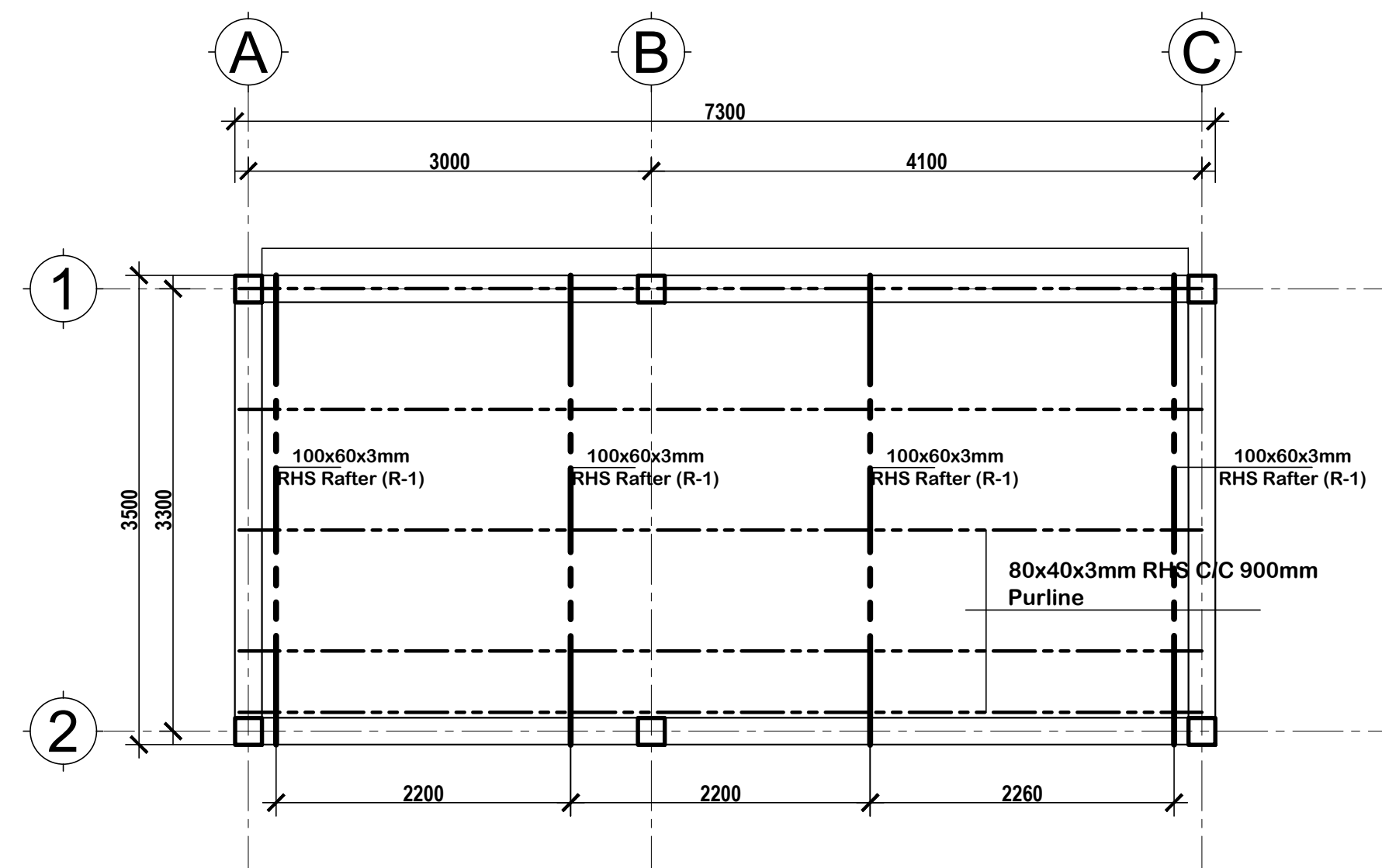
STAFF RESIDENCE

-ROOF BEAM , TRUSS LAYOUT &
CONCRETE GUTTER/DETAILS

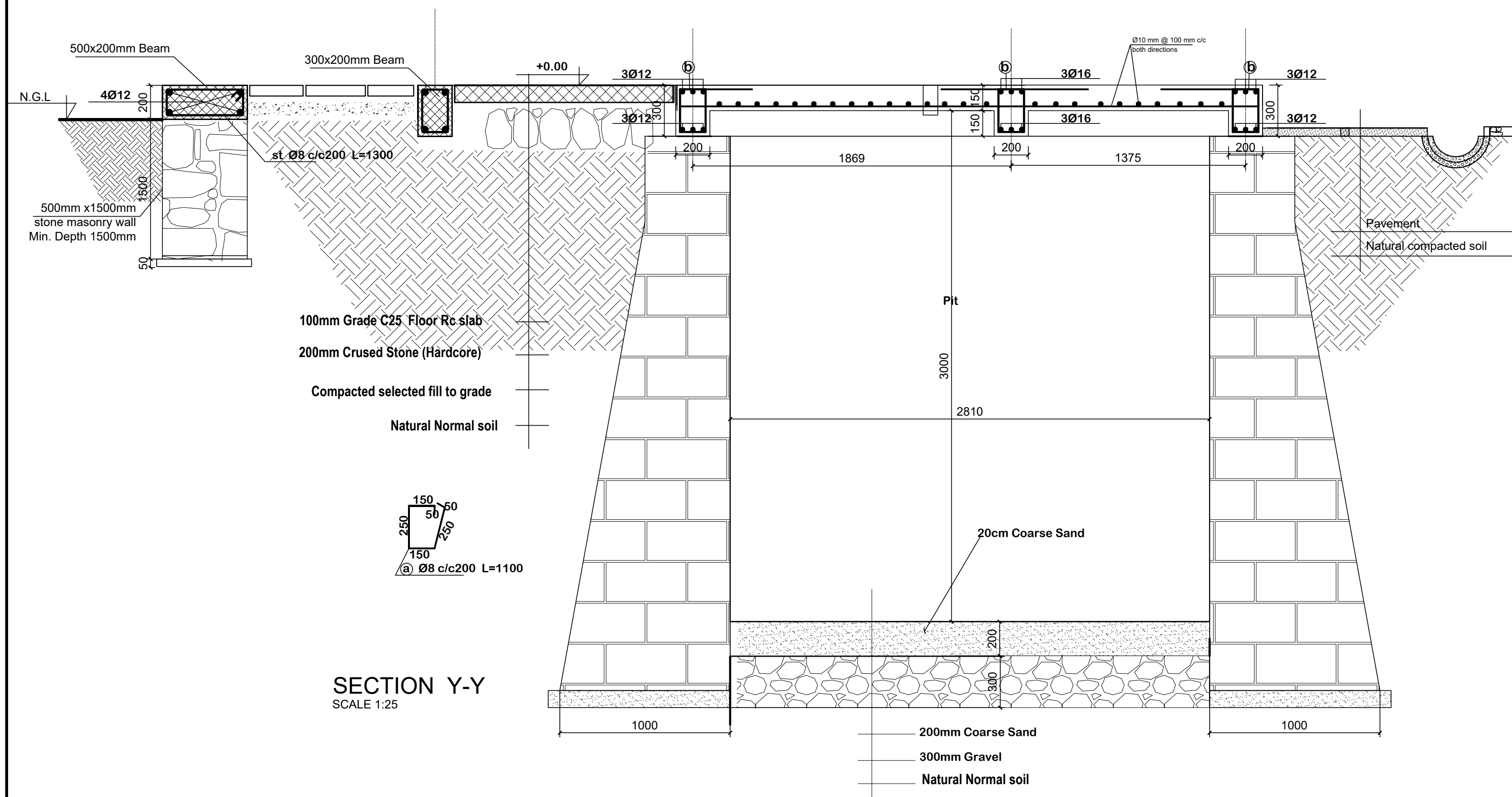
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NK			ST		07		10		R0	
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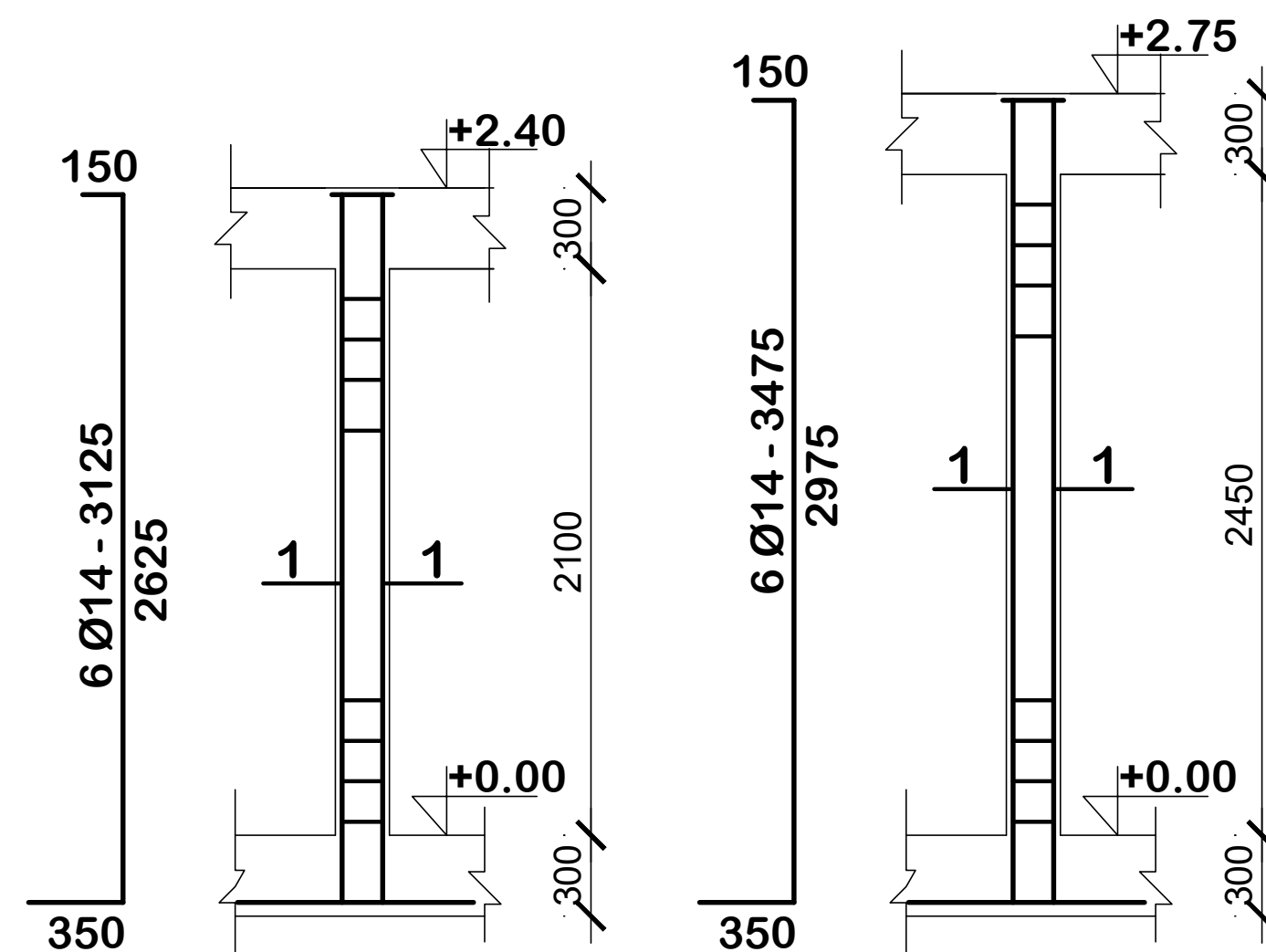
(TOILET)
GROUND FLOOR SLAB REINFORCEMENT , STRIP FOUNDATION, BEAM
& COLUMN LAYOUT SCALE 1:50
(slab thickens =100mm & 150mm)



(TOILET)
ROOF BEAM AND TRUSS LAYOUT
SCALE 1:50

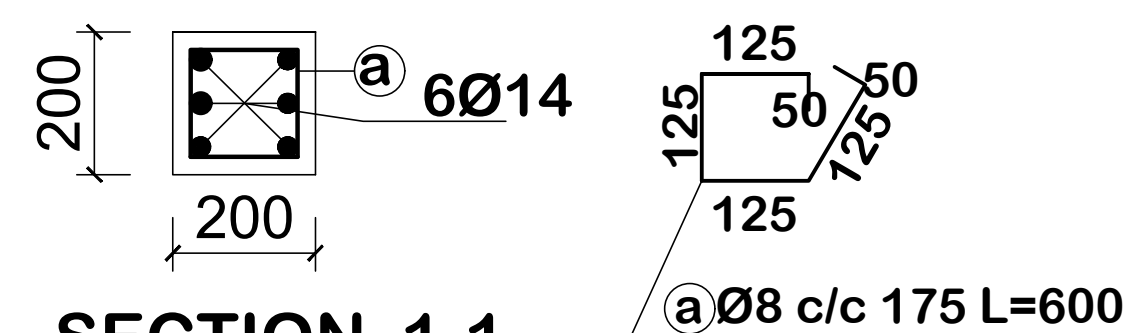


SECTION Y-Y
SCALE 1:25



COLUMN C-1(3 No.)
SCALE 1:25

COLUMN C-2 (3 No.)
SCALE 1:25



SECTION 1-1
SCALE 1:10

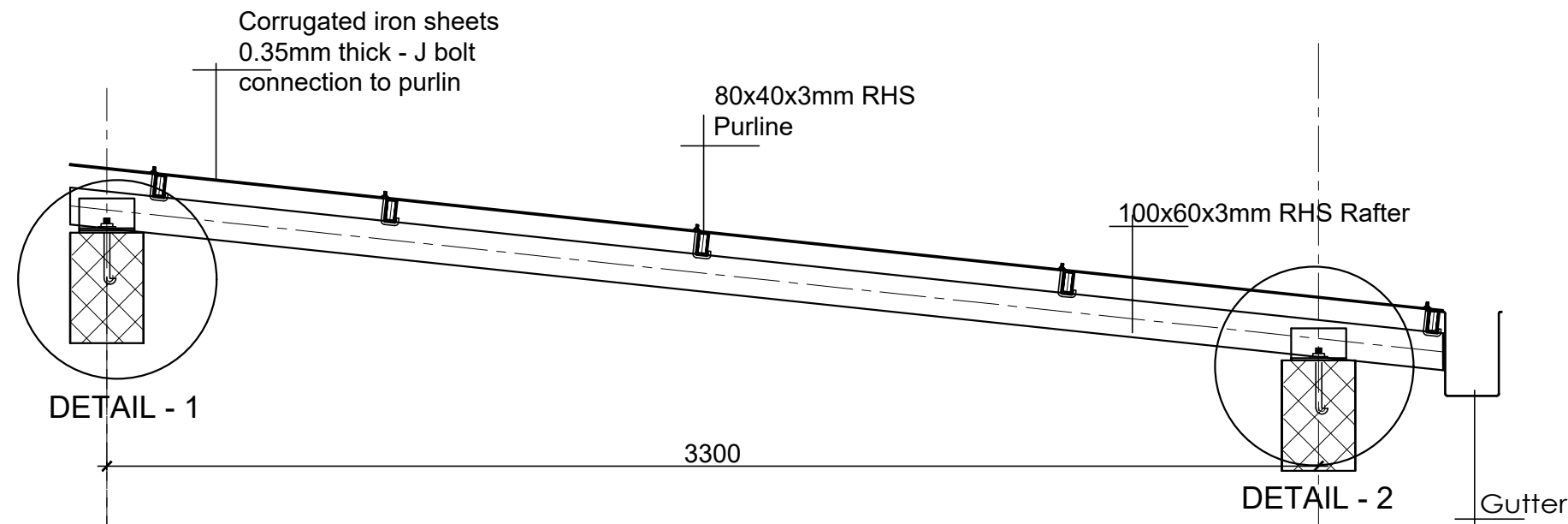
GENERAL NOTES:

Rev.	Date	Description	Approved
0			

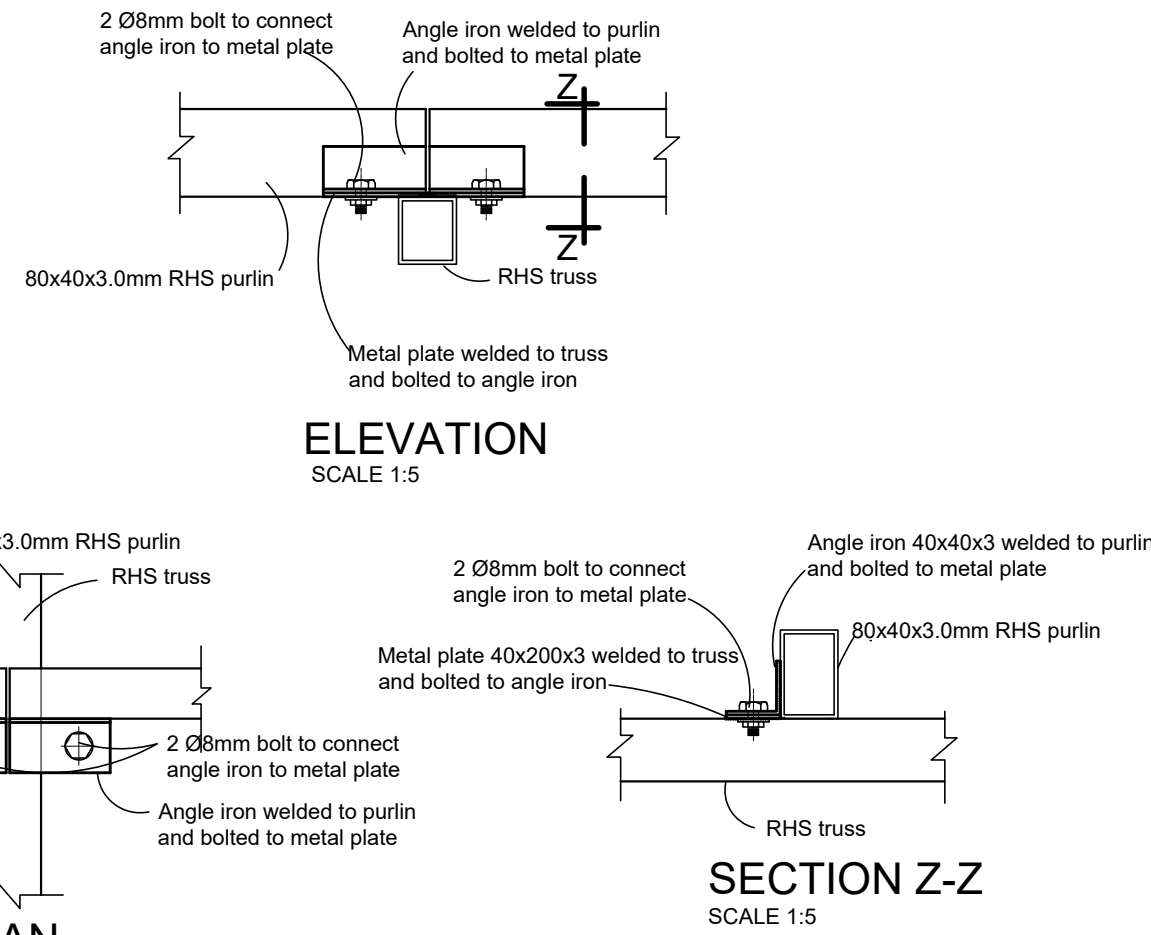
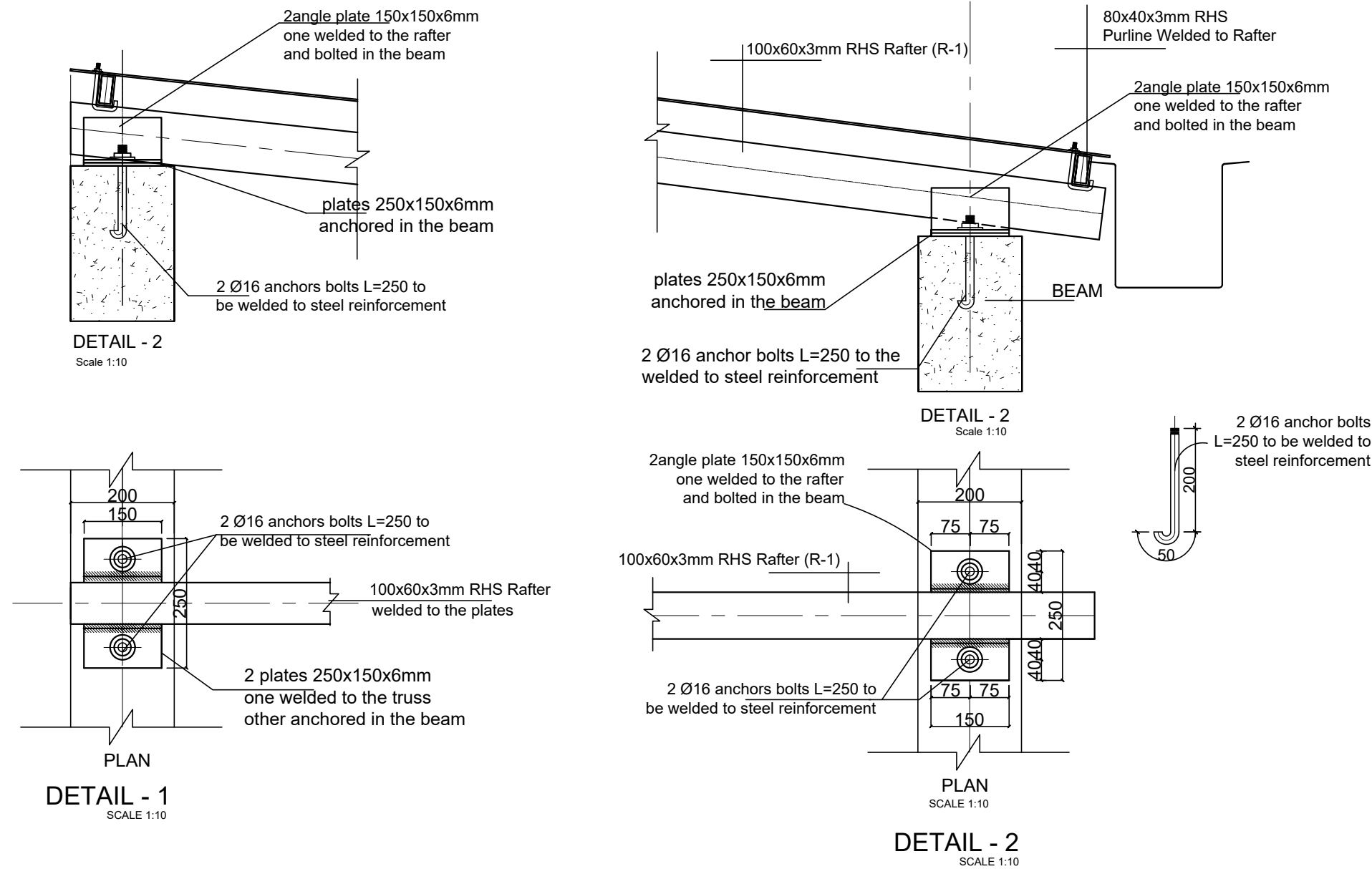
KEY PLAN

Funded By:	Partner:
World Bank	FDRE - Ministry of Finance
Program:	Implemented By:
Response -Recovery-Resilience for conflict affected communities in Ethiopia	FDRE - Ministry of Finance UNOPS - ETMCO
Project Name:	Design:
SEMRET HEALTH POST	UNOPS-ETMCO

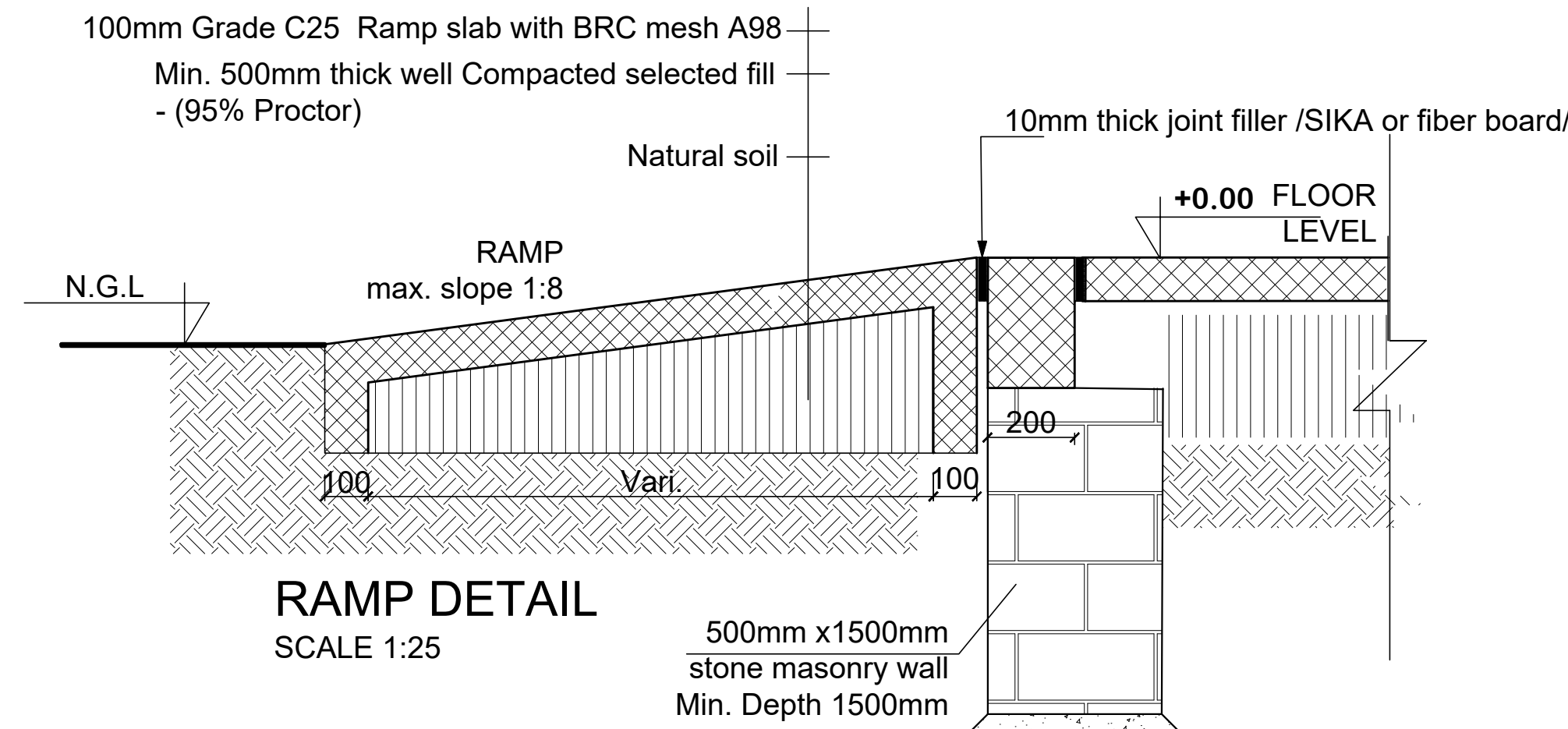
Drawing Title:						
DRY LATRINE						
GROUND FLOOR SLAB REINFORCEMENT , STRIP FOUNDATION, BEAM , COLUMN LAYOUT , ROOF BEAM and TRUSS LAYOUT						
Designed by		Discipline:	Dr. No:	Tot. No:	Rev No:	
NK		ST	09	10	R0	
Drawn:	Checked:	Approved:	Size:	Scale:	Date:	Rev.:
FM	AE	SH	A1	1:50 , 1:25	06 / 22 / 2023	0



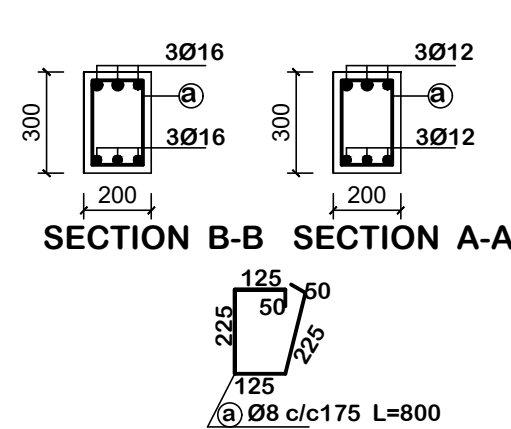
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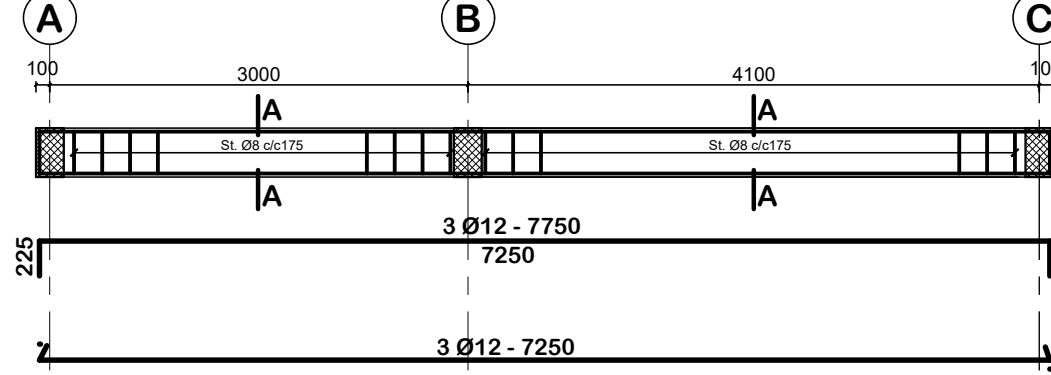
TRUSS & PURLIN CONNECTION DETAILS
SCALE 1:5



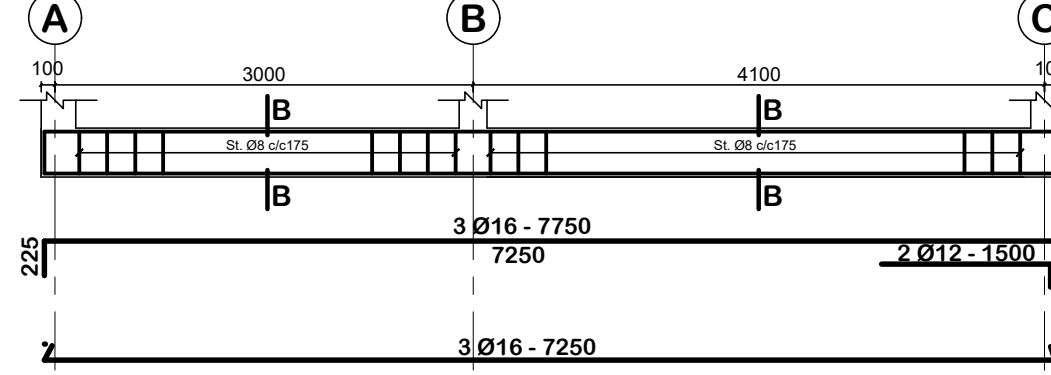
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SCALE 1:25



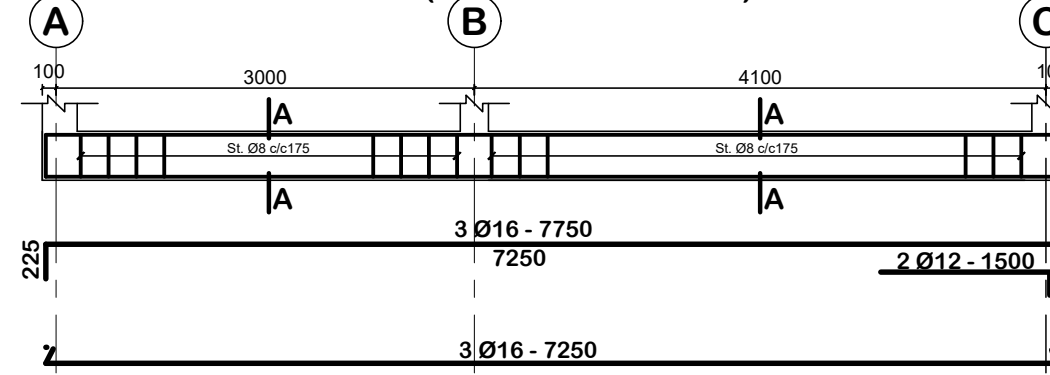
BEAM ON AXIS 1' & 2' (AT LEVEL +0.00)



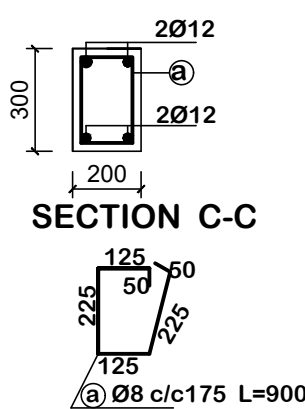
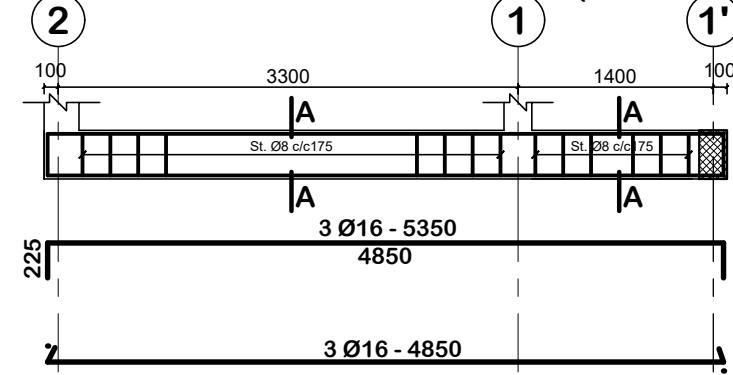
BEAM ON AXIS 1 (AT LEVEL +0.00)



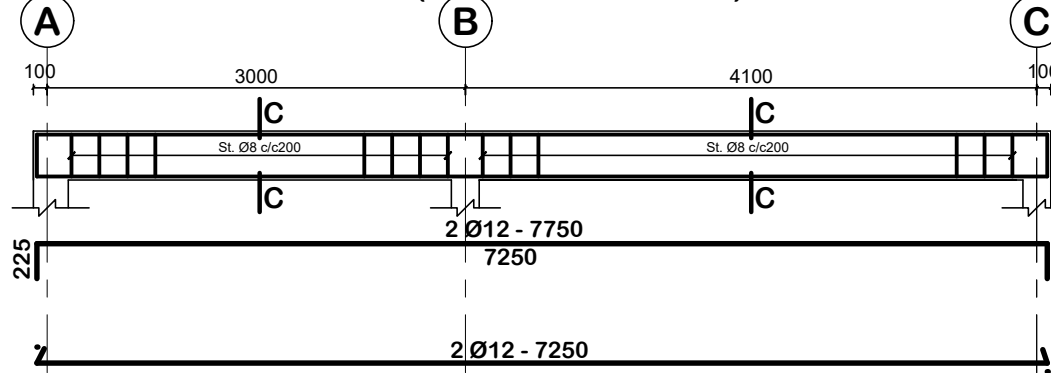
BEAM ON AXIS 2 (AT LEVEL +0.00)



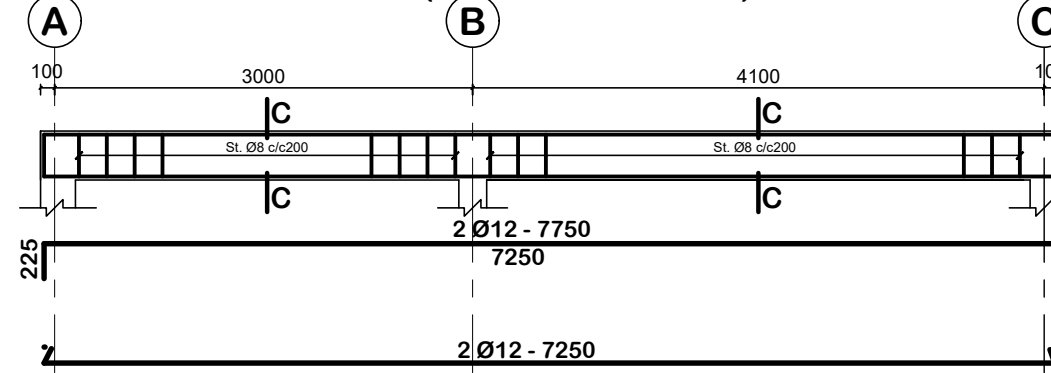
BEAM ON AXIS A, B & C (AT LEVEL +0.00)



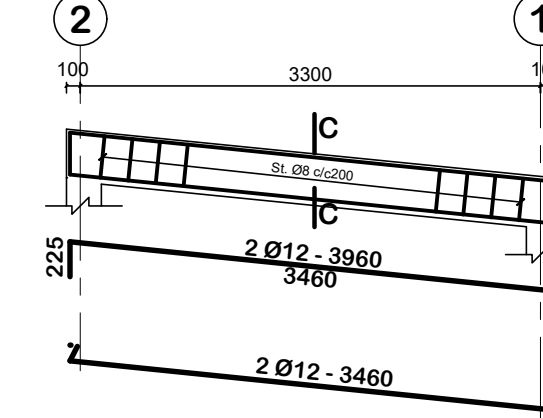
BEAM ON AXIS 1 (AT LEVEL +2.40)



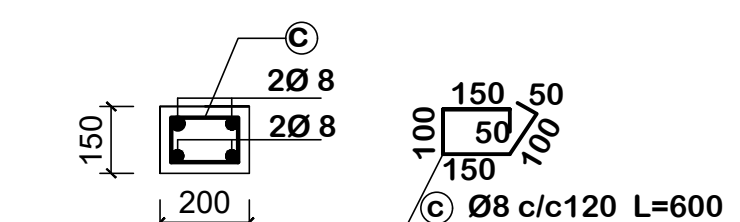
BEAM ON AXIS 2 (AT LEVEL +2.75)



BEAM ON AXIS A & C (AT LEVEL +2.75)



TYPICAL LINTEL BEAM SECTION



GENERAL NOTES:

Rev.	Date	Description	Approved
0			

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Funded By: World Bank Partner: FDRE - Ministry of Finance

Program: Response-Recovery-Resilience for conflict affected communities in Ethiopia Implemented By: FDRE - Ministry of Finance UNOPS - ETMCO

Project Name: SEMRET HEALTH POST Design: UNOPS-ETMCO

Drawing Title: DRY LATRINE BEAM & TRUSS DETAILS

Designed by: NK Discipline: ST Dr. No: 10 Tot. No: 10 Rev No: R0

Drawn: FM Checked: AE Approved: SH Size: A1 Scale: 1:25, 1:10 Date: 06 / 22 / 2023 Rev.: 0