



PROJECT: Somalia Crisis Recovery Project (SCRP)
Anticipatory Action and Recovery Support to Food Insecure Communities in Jubba-land State
of Somalia
PROJECT ID- P173315

**Simplified Environmental and Social Management Plan (ESMP) on Berkeds and Boreholes
Rehabilitation in Afmadow District**

1st January 2023

BRCiS/ Save The Children

Introduction

In collaboration with Wajir South Development Association (WASDA) and the Ministry of Water in Jubaland, Save the Children International (SCI) plans to implement the rehabilitation of strategic water points in the Afmadow district. Six facilities, including three boreholes and three Berkeds, have been identified after a joint assessment. WASDA has screened each source for potential environmental and social risks and impacts per the Environmental and Social Management Frameworks (ESMF). All results have been classified as Category C (moderate). All works will comply with the ESMF.

This ESMP is within the provided budget for all the planned activities. SCI will implement all risk mitigation measures as necessary. The ESMP covers core mitigation approaches and offers practical handling guidelines to SCI project staff and supervising engineers. SCI and implementing staffers will be accountable for applying the ESMP provisions during the execution of the works.

Institutional Arrangement

The proposed activities will be implemented by BRCiS, whom the SCRP PIU has directly contracted. The SCRP PIU's E&S Unit with SCI will monitor and supervise the implementation of all mitigation measures. The SCI technical team will implement the planned work. Joint supervision and site visits will be planned accordingly with the Ministry of Water. This supervision is to verify and monitor that activities are within the agreed contractual terms and that the implementation is following the agreed work plan.

Proposed Activities

The rehabilitation work required for each source varies based on the technical evaluation conducted by the project engineers. The depiction of the designs below is the sample of the Berkeds and boreholes rehabilitation in Afmadow District of Jubaland. They are 3 Berkeds and 3 boreholes. Target communities- Designs for the Berkeds, and borehole's rehabilitation (Bag cadey, Kulis, and Diif) are attached to this ESMP.

Time Plan

The expected time to complete the work is 2 months.

Stakeholder Consultations

The required stakeholder engagement for the project has been done thoroughly at all levels, starting at the state level. SCI held a kick-off meeting with the Ministry of Planning in Jubaland, the SCRP Jubaland project coordinator, and line ministers. Moreover, discussion with the regional and local authority. The partners held a consultative meeting with the regional and local authorities of the three districts to discuss the project and the overall implementation process and have been consulted with resource distribution.

Specific target communities that have been identified for support have been consulted on with the planned activities including, water infrastructures and the implementation modalities and the role of the communities. Partners held consultative meetings with key members of the communities, outlining the project scope, objectives, and implementation approaches. The community consultation on this ESS aspect

was a field-based community discussion, and the community was not identified any significant issues of the environment. The project of emerging risks has been discussed. It will be coordinated with the government, particularly the ministry of Environments and Climate Change, and the technical professional association to react to any arising issues. The community will keep observing the environmental changes. It will report to the government and the implementing agencies, as the SCRP BRCIS component is associated more with minor construction of infrastructure activities.

Table: Key focal points for the projects

Name	Role/Responsibility	Contact
Save the Children Main		
Mohamed Muse Ali	Program Director	Mohamed.ali4@savethechildren.org 0612828555
Hafsa Mohamud Mohamed	Accountability Assistant/ Help desk FP	Hafsa.Mohamed@savethechildren.org 0619895548
Elmi Ibrahim Mohamed	GRM Focal Person	elmi.mohamed@savethechildren.org 0615947360
WASDA		
Abdirashid Abass Kosar	WASDA SCRP Focal person-Afmadow	abdirashid.kosar@wasda.org.in 0613466008
Faaqira Abdullahi Mathey	GBV focal Person-WASDA	Faqira.abdullahi@wasdasom.org 0613309940
Mohameddek Mohamed Nor	Project Assistant	Mohamed.noor@wasdasom.org 0610672536
Afmadow Community and local authority Leaders		
Hassan Abdi Hashi	Dhobley DC	0615255600
Salah Omar Hassan	Deputy mayor-Afmadow	0612166793
Abdi Ali Lathane	Secretary general-Dhobley administration	0618614131
Fatuma Abdi Yussuf	Women Leader	0615790904

Table: ESMP Checklist

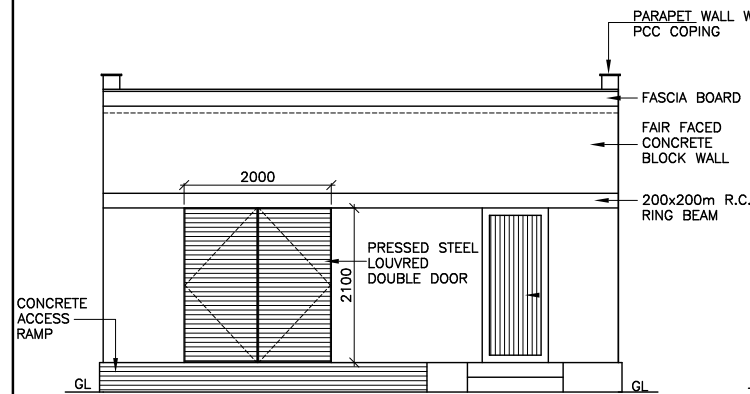
Associated Project Activity: Berkeds and Borehole rehabilitation	E&S Risk and Impact	Mitigation Measures	Responsibility for Implementation	Timing for Mitigation	Monitoring Indicators	Mitigation Budget
ESS 1: Environmental and Social Assessments						
	The risk is that selecting the activity location or beneficiaries will lead to conflict. Project investments may not reach the truly vulnerable, marginalized, and minority members of the community.	Clear Selection criteria have been put up and communicated well with the communities about the selection process of the HHS targeting. Work with community committees. Train community on selection criteria. Implement and monitor GRM. Adapt Stakeholder Engagement Plan (SEP) to minimize conflicts	SCI and WASDA	Throughout the project implementation	The project staff will conduct routine monitoring through field visits. Implement GRM systems by training project staff, Stakeholder Engagement Plan (SEPs), and field registers to report community and beneficiary grievances throughout the project implementation.	All mitigation activities will be covered under the program budget. Hotline implemented by PIU
ESS 2: Labor and Working Conditions						
	Security of all Project workers	IP to prepare an activity security plan Implementation of SMP and local activity security plan	SCI and WASDA	Throughout the implementation of the project	District Security Risk Assessment Local Security Management Plan Local Activity Security Plan	Included in IP staff costs

Associated Project Activity: Berkeds and Borehole rehabilitation	E&S Risk and Impact	Mitigation Measures	Responsibility for Implementation	Timing for Mitigation	Monitoring Indicators	Mitigation Budget
					Mitigation measures of local activity plan implemented	
	Risks of child and forced labor in the implementation of CFW activities. Risk of discrimination against women in employment	Set-up of a workers' GRM to ensure their voices / complaints are heard IP to maintain staff records, ID copies, and perform spot checks against children and forced labor.	SCI and WASDA	Throughout the implementation of the project	Evidence of regular reviews conducted Workers' GRM in place The training was held, and registration was provided for all staff and titles, new hires, and departures.	Included in IP staff costs
	The risk of labor and working conditions of all the workers don't comply with WB and (Somali Labor Code in draft) – including OHS risks. Lack of occupational health and safety (OHS) for workers deployed at project sites	Contractor to develop recruitment and retention policies that enable fair working conditions and women's safe and equitable participation All workers are to sign CoCs. In reference to WBG EHSGs Implement and monitor	SCI and WASDA	Throughout the project implementation	Evidence of regular reviews conducted Workers' GRM in place Training held and registration provided for all staff and titles, new hires, and departure.	

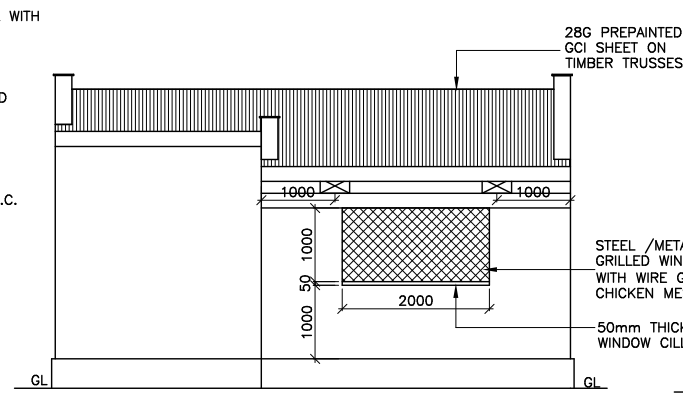
Associated Project Activity: Berkeds and Borehole rehabilitation	E&S Risk and Impact	Mitigation Measures	Responsibility for Implementation	Timing for Mitigation	Monitoring Indicators	Mitigation Budget
	Delayed payments/cash transfers may lead to complaints and conflict.	Regular review of the payment processing and employ any procedure that enhancement the speed of payment. Ensure provision of timely payment Ensure provision of workers' GRM Communication/awareness campaign of payment mechanisms			CoCs with provisions on GBV/SEAH signed by all staff and understood PPE provided Logbook showing site visited and actions taken with respect to major findings and actions taken by IP, engineer, or others. The number of sessions held on communication awareness. Records indicating that payments made on time Existence of workers' GRM.	
ESS 3: Resource Efficiency and Pollution Prevention Management						
	Impacts of generation of solid waste of water	Ensure disposal of generated solid waste at designated and authorized disposal site are	SCI and WASDA	Throughout the implementation of the project	Records of the amount of	It is under the Project Implementation

Associated Project Activity: Berkeds and Borehole rehabilitation	E&S Risk and Impact	Mitigation Measures	Responsibility for Implementation	Timing for Mitigation	Monitoring Indicators	Mitigation Budget
	infrastructures rehabilitation.	authorized by the local government and communities and this has been identified earlier by the time of the assessment. Ensure mechanisms exist for the community to bring forth any complaints/feedback concerning the waste disposal by the contractor – Project GRM			solid waste disposed of, where and when Records of project GRM and addressed grievances	
	Soil Erosion during desilting of super structures of the infrastructures and reinforcement of riverbanks	Implement soil control measures Where feasible, practice minimal or no vegetation disturbance during the implementation of the project and avoid exposing the soils to external weather conditions.	SCI and WASDA	Throughout the implementation of the project	Record on status and management of waste	Included in IP staff costs
	Uncontrolled discharges of these wastes of the infrastructure rehabilitation can potentially contaminate the soil, pollute the nearby water bodies and	Ensure that waste is not released into any drinking water source, cultivation fields, or critical habitat	SCI and WASDA	Throughout the implementation of the project	Record on status and management of waste	Included in IP staff costs

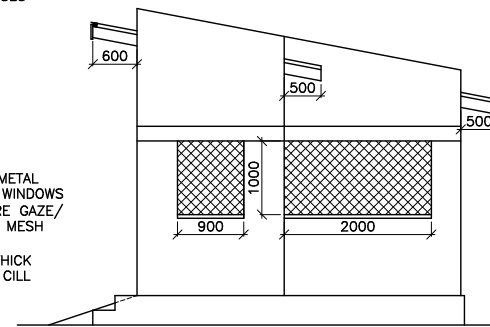
Associated Project Activity:	E&S Risk and Impact	Mitigation Measures	Responsibility for Implementation	Timing for Mitigation	Monitoring Indicators	Mitigation Budget
Berkeds and Borehole rehabilitation						
	degrade their value for communities and ecology.					
ESS 10: Stakeholder Engagement and Information Disclosure						
	Risks of poor access to beneficiaries lead to less meaningful community engagements and difficulty in monitoring for social harm.	Implementation and monitoring of GRM	SCI and WASDA	From community engagements and throughout the implementation of the planned project activities.	Implementation and monitoring of SEP	1000 USD for community session and meetings
	Risks of lack of information on access to GRM lead to lack of accountability	Awareness raising on GRM	SCI and WASDA	Throughout project implementation	# of awareness sessions of GRM  Grievance Register in excel database.xlsx	Included in IP staff costs
	Lack of information disclosure leads to a lack of transparency and suspicions of mismanagement of the project.	Conduct in-depth community engagement, providing information on the project Implement SEP	SCI and WASDA	Throughout project implementation	# of community engagement sessions held Implementation and monitoring of SEP	Included in IP staff costs



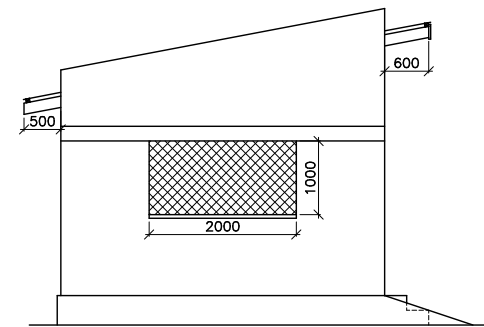
ELEVATION 01
SCALE 1:50



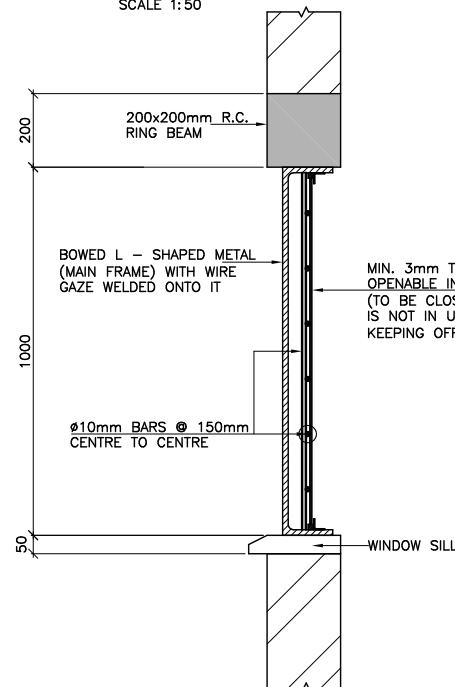
ELEVATION 03
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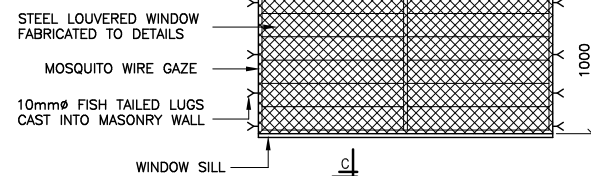
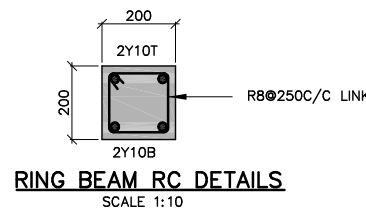
ELEVATION 02
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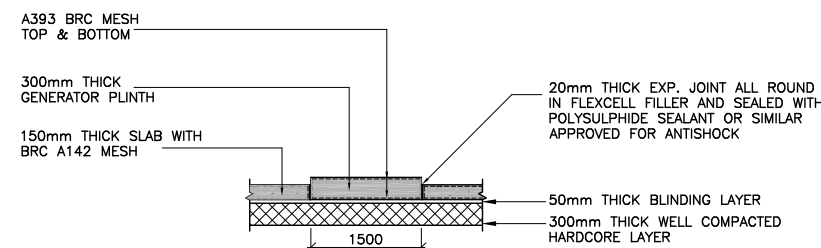
ELEVATION 04
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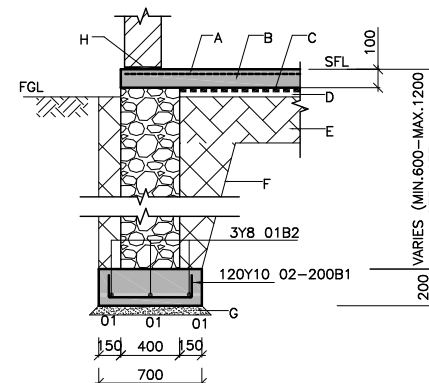
SECTION C-C
SCALE 1:10



WINDOW ANCHORAGE DETAIL
(SEEN FROM OUTSIDE)
N.T.S.



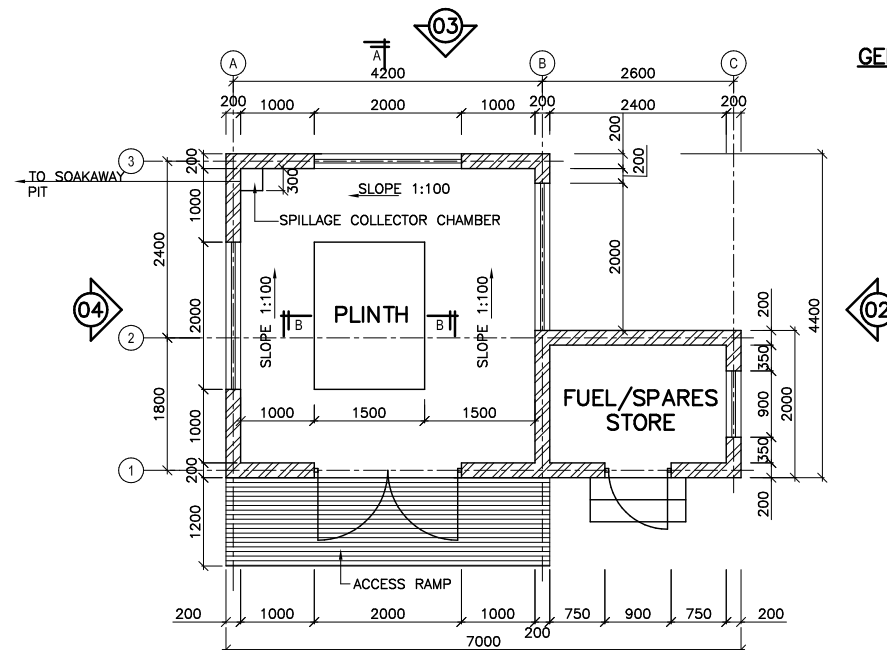
GENERATOR PLINTH SECTION B-B
SCALE 1:50



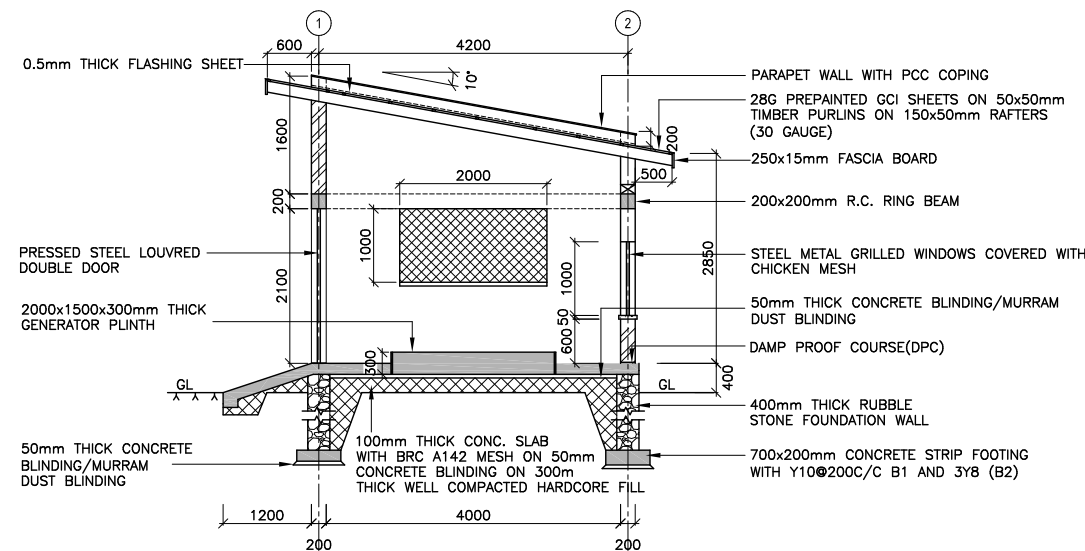
SECTION THROUGH STRIP FOOTING AND GROUND FLOOR SLAB
SCALE 1:25

LEGEND FOR SECTION THROUGH STRIP FOOTING/GROUND FLOOR SLAB:

- A - BRC MESH REF. A142
- B - 100mm THK. GROUND FLOOR CONCRETE SLAB
- C - 1000g POLYTHENE D.P.M.
- D - 50mm THK. QUARRY DUST OR MURRAM BLINDING
- E - MINIMUM 300mm THICK WELL COMPACTED HARDWARE
- F - SELECTED BACKFILL MATERIAL
- G - 50mm THK. CONC. BLINDING
- H - 200mm WIDE DPC
- S.F.L.-STRUCTURAL FLOOR LEVEL
- F.G.L.-FINISHED GROUND LEVEL.
- D.O.S-DETERMINED ON SITE



FLOOR PLAN
SCALE 1:50



SECTION A-A
SCALE 1:50

NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE
- THE RUBBLE STONE FOUNDATION WALL TO BE JOINTED WITH CEMENT/SAND (1:3) MORTAR
- ROOF TRUSSES TO BE MADE OF SEASONED CYPRESS TIMBER OR EQUIVALENT APPROVED CONFORMING TO APPLICABLE LOCAL AND/OR BS STANDARDS.
- ROOF TRUSSES TIMBER MEMBERS TO BE TREATED WITH APPROVED PRESERVATIVE AGAINST PEST AND SHALL HAVE NO VISUAL WARNING.
- STRUCTURAL CONCRETE SHALL BE CLASS 25/20 (1:1.5:3) UNLESS OTHERWISE INDICATED
- BLINDING CONCRETE SHALL BE CLASS 15/20 (1:3:6) UNLESS NOTED OTHERWISE
- DURING CONSTRUCTION OF THE GENERATOR PLINTH, PROVISION FOR ANCHORING THE FRAME INTO THE PLINTH VIA HOLD DOWN BOLTS OR OTHERWISE TO BE CONSIDERED
- DURING CONSTRUCTION OF THE GENERATOR PLINTH, PROVISION FOR CABLING TO BE MADE BY LAYING DUCTS AND / OR PIPE SLEEVES
- GENERATOR EXHAUST SYSTEM TO BE ANCHORED ONTO THE WALL AS PER SUPPLIER'S SPECIFICATION AND TO EXTRUDE TO THE OUTSIDE
- SPILLAGES ON THE ROOM TO BE DIRECTED TO THE SPILLAGE COLLECTOR CHAMBER AND INTO THE SOAKAWAY PIT. (FOR DETAILS OF SOAKAWAY PIT REFER TO WATER KIOSK DRAWING)
- THE FOUNDATION FORMATION LEVELS IS MINIMUM 600mm IN HARD FORMATION (UNFRACTURED MURRAM AND ABOVE) UP TO 1200mm IN SOFT/LOOSE FORMATION
- FUEL/SPARES STORES IS PROVISIONAL DEPENDING ON THE DISTANCE BETWEEN THE GENERATOR ROOM AND CARETAKER'S HOUSE

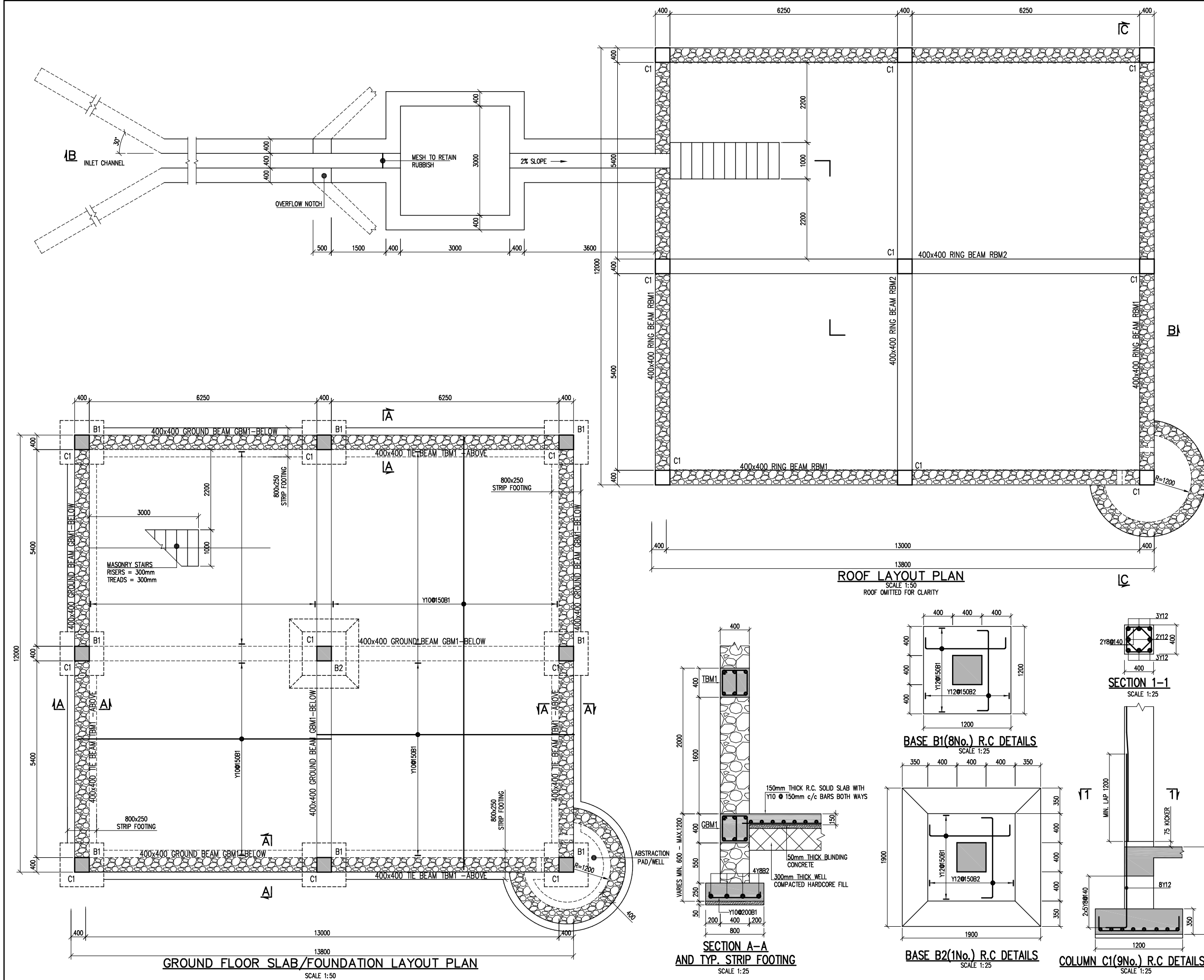
Drawing title:
construction of generator house in Deg-elema village

DESIGNED BY: **DRAWN BY:**

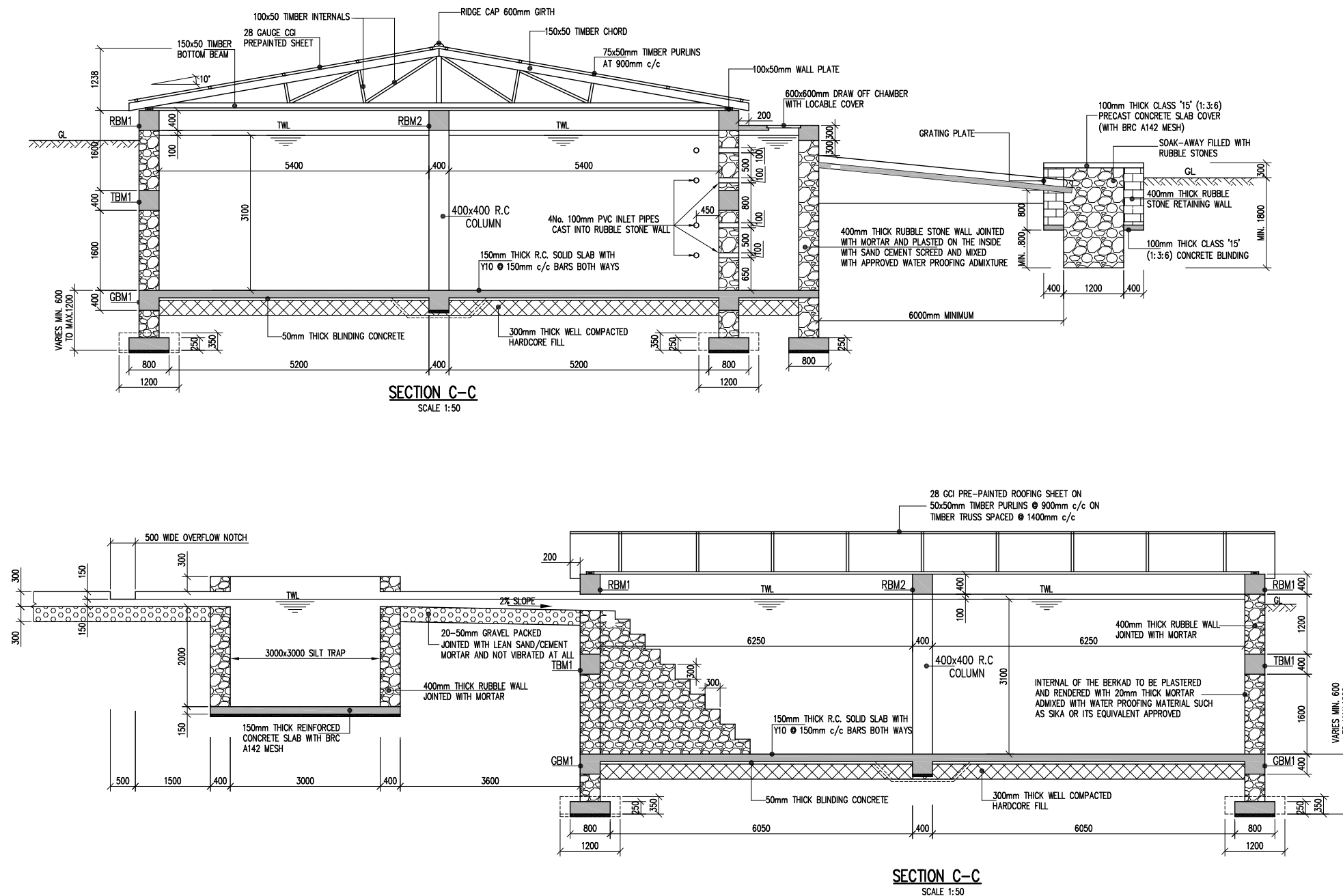
CHECKED BY: **APPROVED BY:**

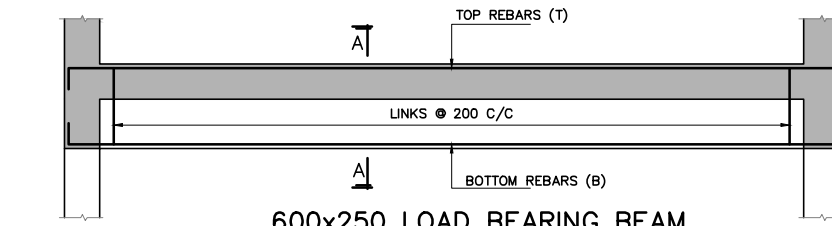
SCALE AS SHOWN BY.

DATE: DEC 2022



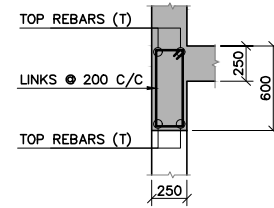
NOTES	
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. - THE CONTRACTOR SHALL ENSURE WATER TIGHTNESS OF THE TANKS BY USE OF SIKA MASTERSEAL OR EQUIVALENT APPROVED WATER PROOFING COMPOUND TO MANUFACTURER'S DETAIL WHEN RENDERING THE BERKAD. - CONSTRUCTION JOINT WHERE APPLICABLE SHALL HAVE 200mm WIDE PVC WATER BAR. - TIMBER USED FOR ROOFING SHALL BE TREATED WITH AN APPROVED PRESERVATIVE AGAINST PEST AND SHALL HAVE NO VISUAL WARPING. - RAFTERS AND TIMBER BEAMS SUPPORTED ON MASONRY TO BE STOPPED 50mm AWAY FROM THE INNER FACE TO ALLOW FOR FINISHES. - WALL PLATE TO BE FIXED TO CONCRETE BEAM WITH 12mmØ BOLTS AT 600mm CENTRES. - FOUNDATION FOR THE TANK SUBSTRUCTURES HAVE BEEN SIZED FOR A BEARING CAPACITY OF 350KN/m² (HARD NONFRACTURED MURRAM OR HIGHER)	
DRAWING TITLE: REHABILITATION OF BERKAD	
DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE AS SHOWN BY.	
DATE: DEC 2022	





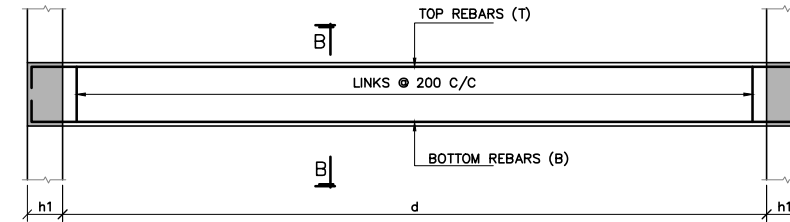
600x250 LOAD BEARING BEAM

SCALE 1:25



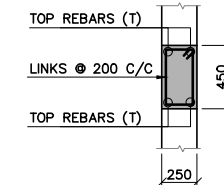
SECTION A-A

SCALE 1:25



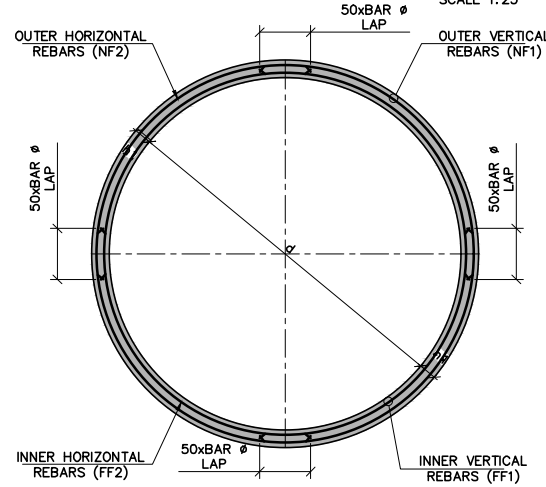
450x250 MIDDLE TIE BEAM

SCALE 1:25



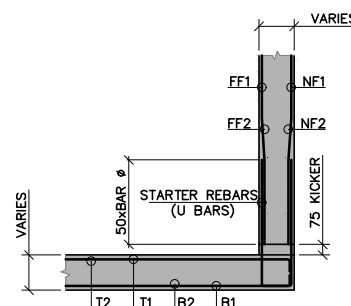
SECTION B-B

SCALE 1:25



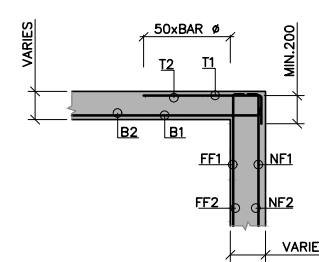
SECTION 1-1

SCALE 1:50



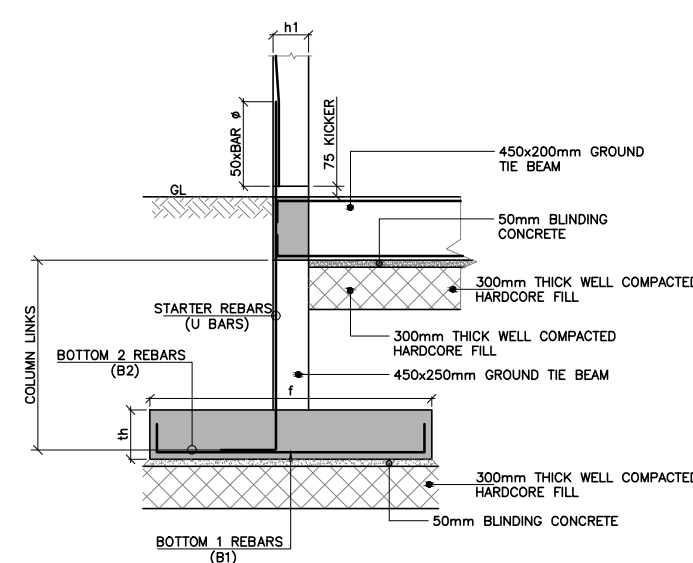
DETAIL 'A'

SCALE 1:25



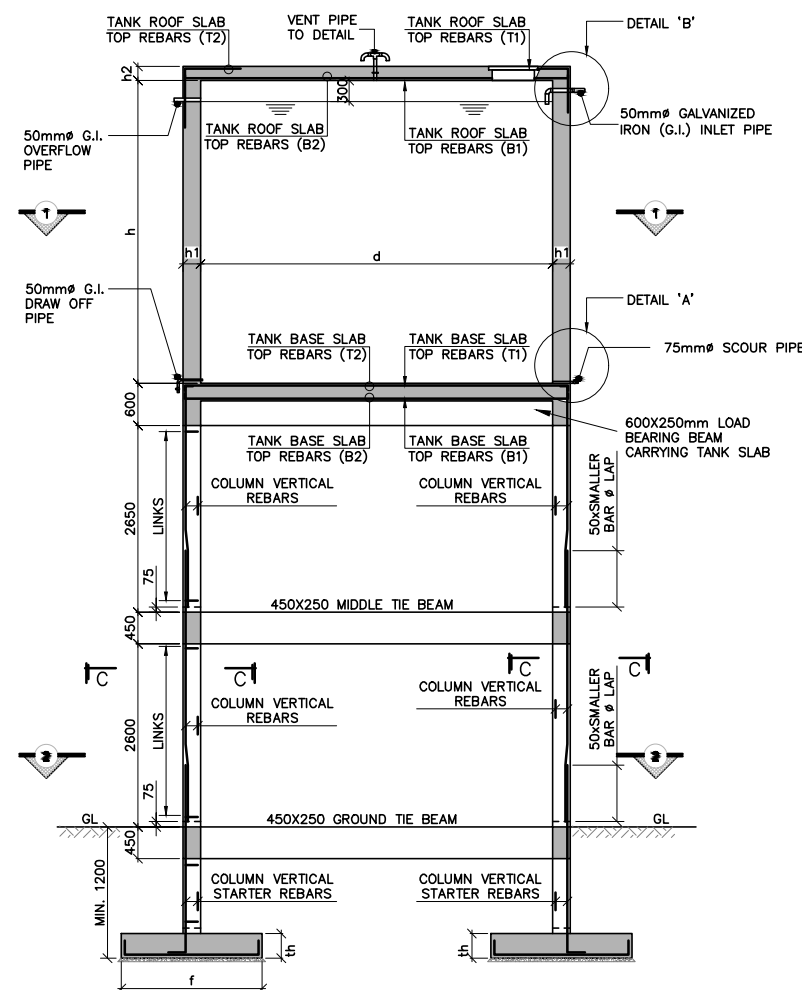
DETAIL 'B'

SCALE 1:25



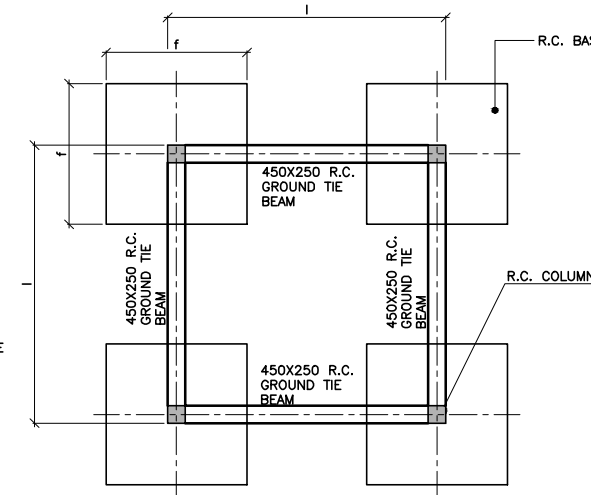
FOUNDATION DETAILS

SCALE 1:25



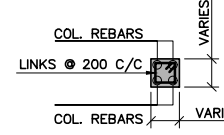
ELEVATED WATER TOWER - SECTIONAL ELEVATION

SCALE 1:50



SECTION 3-3

SCALE 1:50



SECTION C-C

SCALE 1:25

		TANK SIZE				
		20m ³	25m ³	50m ³	60m ³	75m ³
DIMENSIONS	Column Size	250x250mm	250x250mm	300x300mm	350x350mm	350x350mm
	d	3400	3800	4900	4900	5500
	h	2200	2200	2700	3200	3200
	h1	150	150	200	250	250
	h2	150	150	200	200	250
	f	1200	1200	1600	2000	2000
	th	250	250	300	350	350
	L	4750	5150	6650	7100	7700

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS STATED OTHERWISE
2. READ THIS DRAWING TOGETHER WITH DRAWING STORAGE TANKS BAR BENDING SCHEDULE)
3. CONSTRUCTION JOINT WHERE APPLICABLE SHALL HAVE 200mm WIDE PVC WATER BAR
4. REINFORCED CONCRETE FOR WATER TANK SHALL BE CLASS 30/20 (1:1:2)
5. THE CONTRACTOR SHALL ENSURE WATER TIGHTNESS OF THE TANK BY USE OF VANDEX, SIKA OR EQUIVALENT APPROVED WATER PROOF ADMIXTURE ON WALLS AND BASE SLAB TO MANUFACTURER'S DETAIL
6. FOUNDATION FOR THE TANK SUBSTRUCTURES HAVE BEEN SIZED FOR A BEARING CAPACITY OF 350kN/m² (HARD NONFRACTURED MURRAM OR HIGHER)
7. THE WASHOUT POURING TO BE DIRECTED TO A CHAMBER AWAY FROM THE TANK FOUNDATION TO PREVENT SCOURING/EROSION

CLIENT

PROJECT
9 m HIGH ELEVATED CONCRETE
WATER STORAGE TANKS R.C. DETAILS

DRAWING TITLE
9m HIGH ELEVATED CONCRETE
STORAGE TANKS R.C. DETAILS

DESIGNED & DRAW BY

DRAWING NO.:

REVIEWED & APPROVED BY

APPROVAL & SIGNOFF

DATE:

The image displays two architectural drawings of a building structure, likely a small shed or outbuilding.

Top Drawing (Plan View): This drawing shows the layout of the building's floor. The overall dimensions are 5.800m in width and 5.800m in depth. The layout includes a central area with two rows of four columns each, spaced 1.000m apart. The columns are 0.300m wide. The walls are 0.100m thick. The drawing is labeled "S-08" on both the left and right sides.

Bottom Drawing (Section View): This drawing shows a cross-section of the building. The overall height is 3.000m. The structure consists of a base slab (100mm Reinforced Concrete), masonry walls, and a roof structure. The roof is supported by 80mmx80mm Column timber. The roof structure includes a 3"x2" tie beam, 3"x2" rafters, and 2"x2" purlins. The roof is covered with 8"x1" tie fascia board. The drawing is labeled "S-08" at the bottom center.

S-08

S-08