

ISLAMIC REPUBLIC OF AFGHANISTAN
Ministry of Agriculture, Irrigation and Livestock
Horticulture Value Chain Development Sector(HVCDSP)

Grant Number: 0621

Contract No:

On-Form Projects, Onion Zero - Energy Storage

PLAN , SECTIONS AND STRUCTURES

Date Feb 22 - 2020



KEY PLAN:-



ISLAMIC REPUBLIC OF AFGHANISTAN
MINISTRY OF AGRICULTURE, IRRIGATION
AND LIVE STOCK

CENTRAL PROGRAM MANAGEMENT OFFICE
(CPMO) ESTABLISHED UNDER MINISTRY OF
AGRICULTURE IRRIGATION AND
LIVESTOCK(MAIL)



PROJECT: -

HORTICULTURE VALUE CHAIN DEVELOPMENT
SECTOR PROJECT (HVCDSP)
GRANT NUMBER-0621



SUB-PROJECT: -

DRAWING :

STRUCTURE DRAWING OF Zero-Energy Onion Storage

SURVEY DESIGN & CHECKED BY

SURVEYED BY	
DRAWN BY	Shmsuddin Shams
DESIGN BY	Zakirullah Afghan
CHECKED BY	Naseebullah Rasooli

Design Check & Review

Checked By	M. Ibrahim Karimi
Verified By	Ahmad Farid Raaid
Approved By	Eng.Ehsanullah "Monti"

SCALE	DWG NO	REVISION
A3		FINALSUBMITT
DATE	TOTAL SHEETS	PAGE NO
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Key Notes:-

1. All dimensions are in CM , Unless Otherwise Noted.
2. Complete Detail Survey and Shop Drawing Should Prepare before implementation.
3. Reinforcement steel should comply with A 615 Grade 60 deformed bars ($F_y = 4218 \text{ kg/cm}^2$)
4. Structural steel should comply with A 36 ($f_y = 2530 \text{ Kg/cm}^2$)
5. All dimensions, elevations and level should be confirmed on the site by the engineers.
6. Location of Structures, Setting out to be confirm by the engineer before of construction.
7. All Structures should be rest on firm and virgin Soil, pocket of loose Soil Should be removed and replaced with granular material(Satisfactory or Select material if required).
8. Use concrete M20, for Concrete post construction and M15 for foundation of start and end posts with Specified Strength of 20 N/mm^2 , 15 N/mm^2 .
9. Mix Design Should be done as per ACI 211 and Verified before Casting and approved by engineers.
10. Fresh Placed Concrete Shall be protected from rain, dust and Sun rays.
11. Exposed concrete surfaces to be steel trowel or fair finish.
12. Clean Sand and Gravel should be used and water Should be Potable.
13. All Compaction and Earthen Works Shall be refer to technical Specification attached as annex.
14. while deviation from design drawings, please take approval of Contracting authority.
15. All Structures work should be cured minimum for 7 days consequently.

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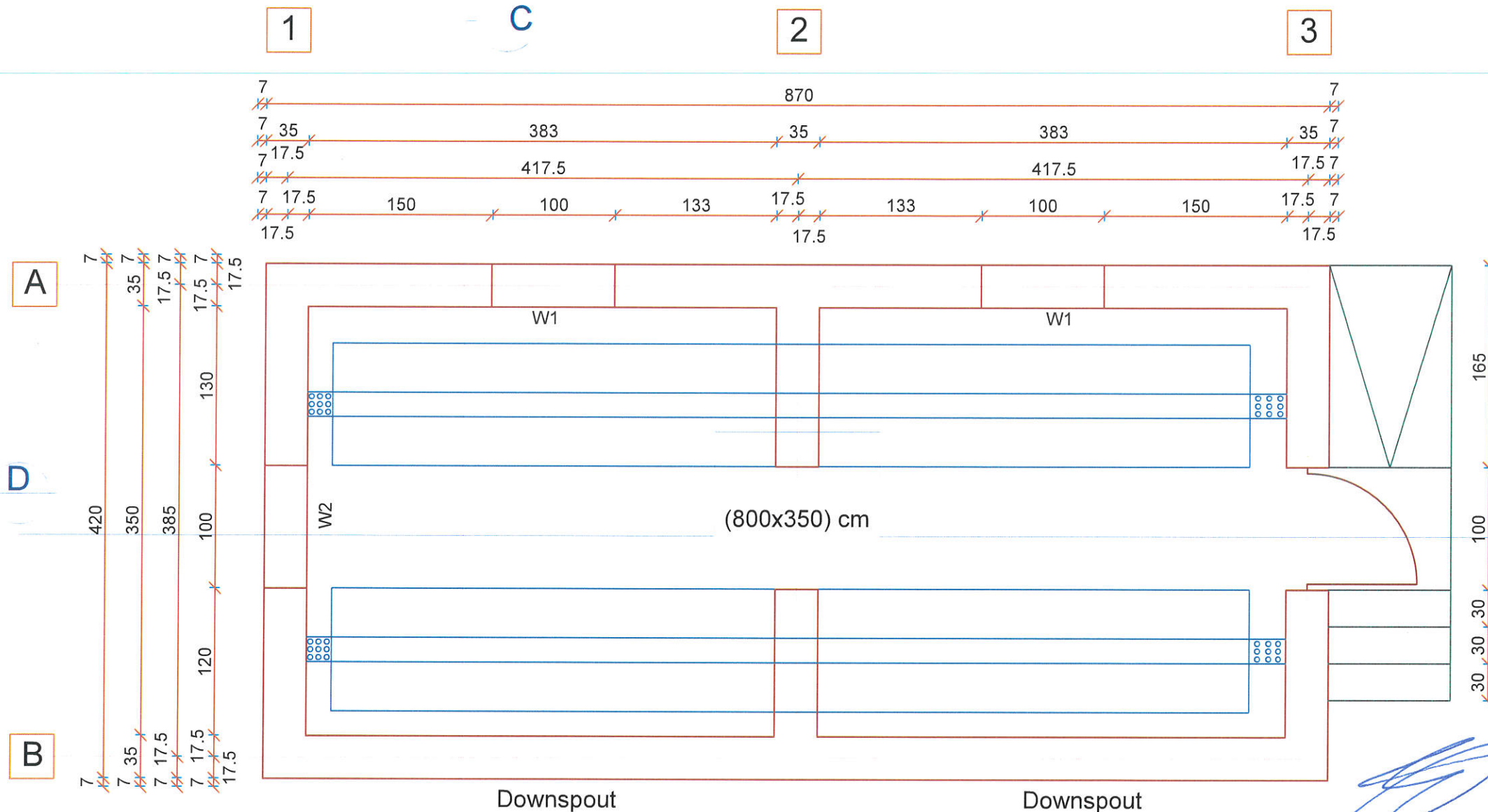
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Note:

- 1- All dimensions are in centimeters unless otherwise specified.
- 2- Provide minimum 25cm of bearing for I-Beams each end.
- 3- Reinforcement steel should be A615 Grade 60 (Fy=4218 kg/cm² yield strength).

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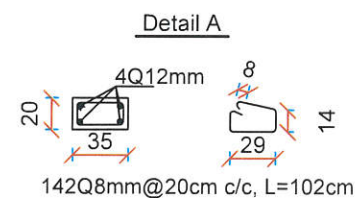
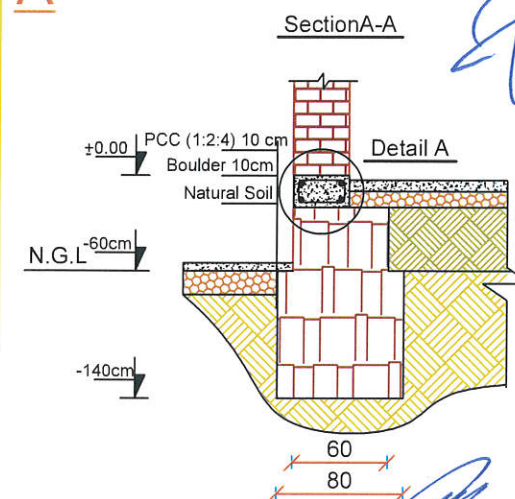
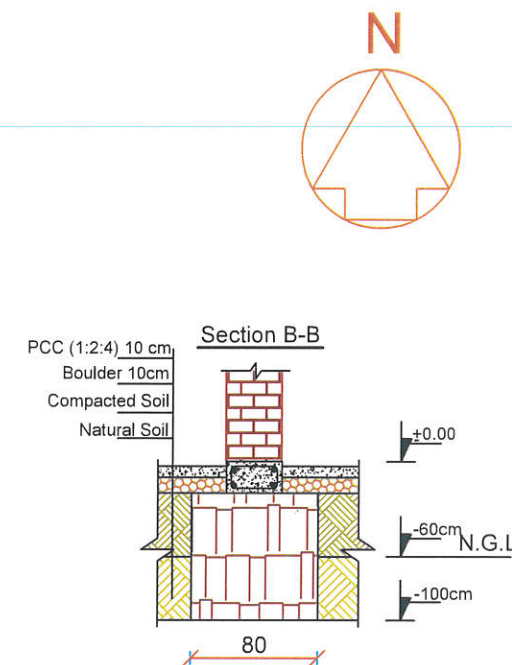
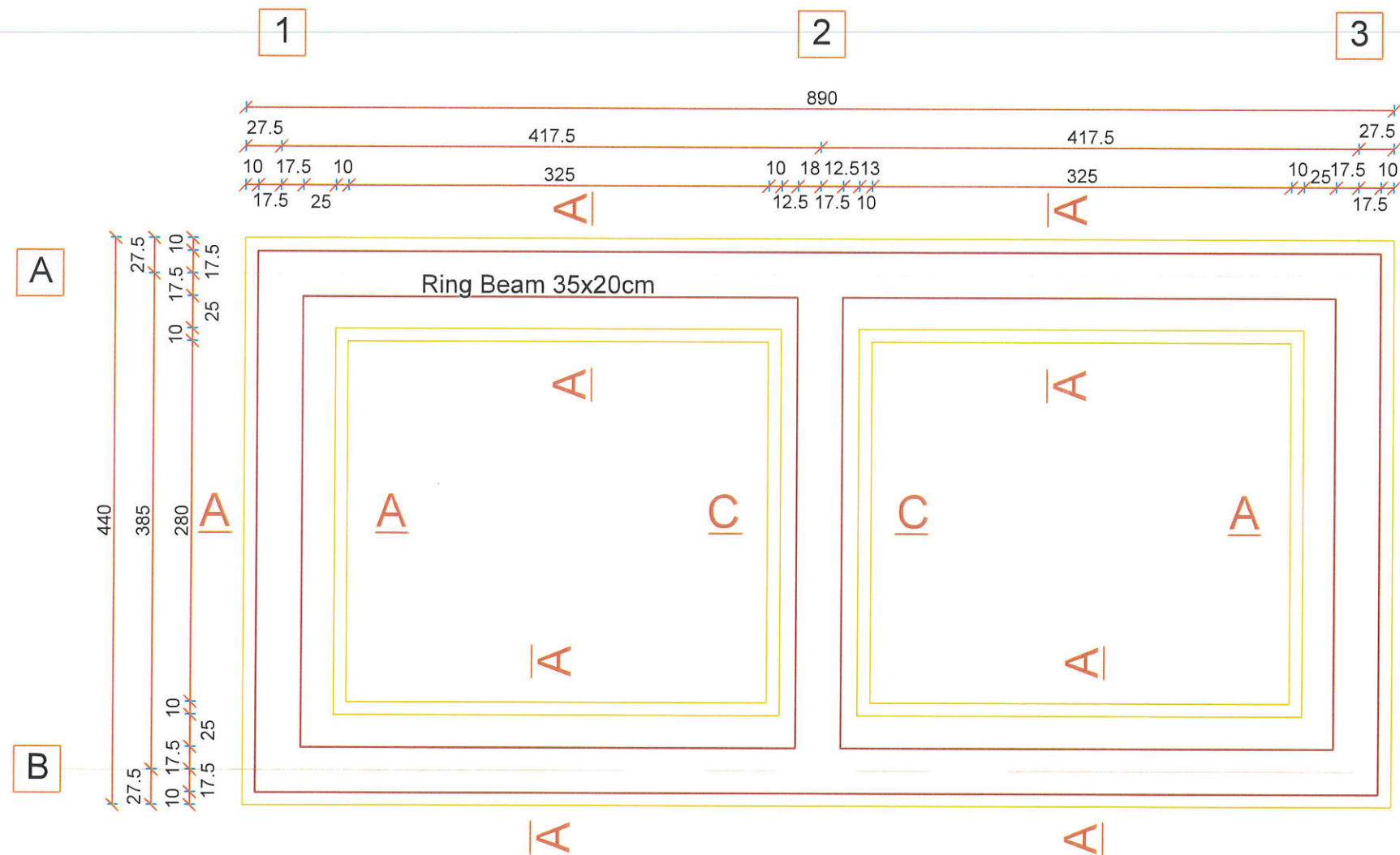
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CHECKED BY:	

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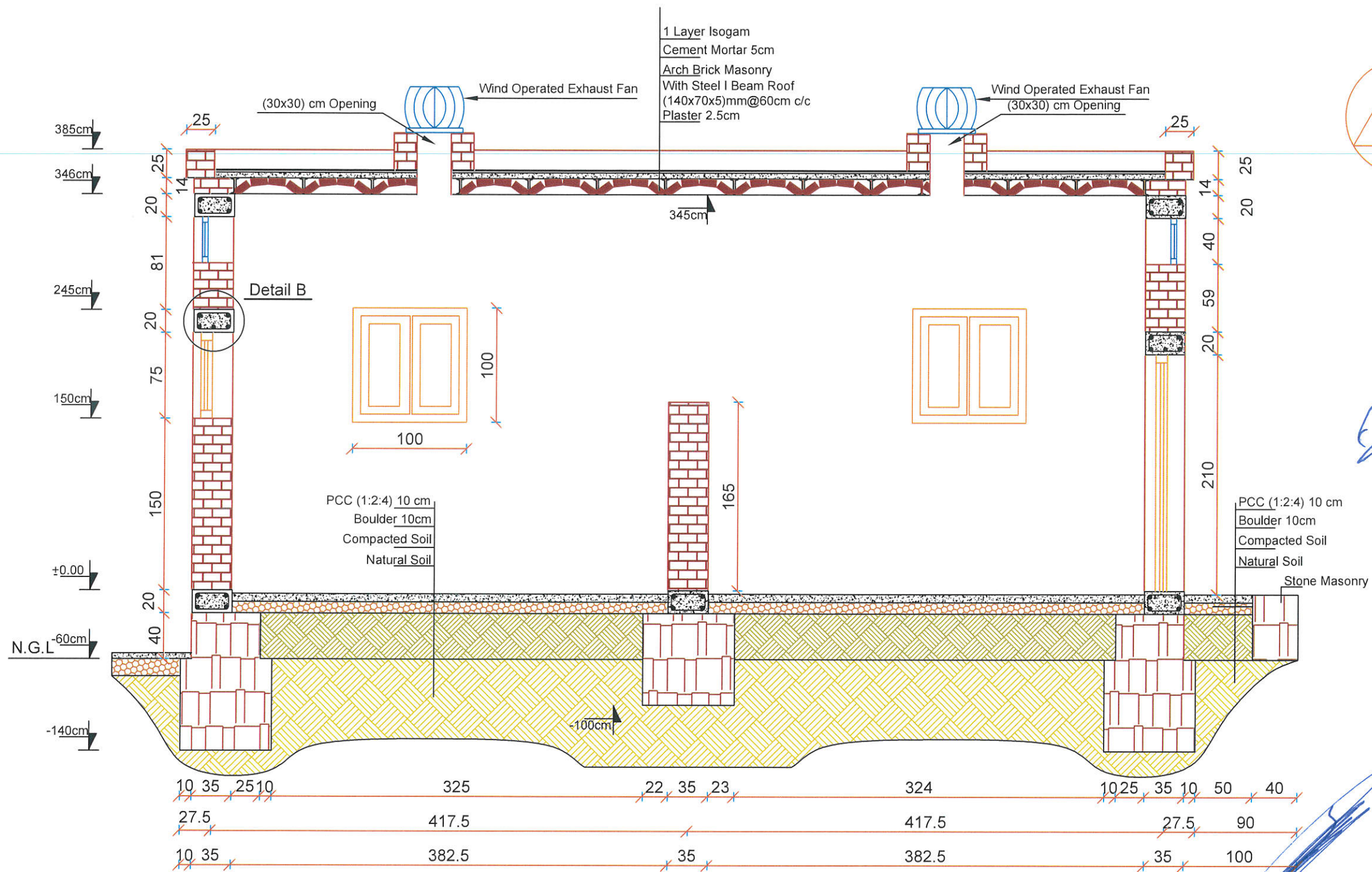
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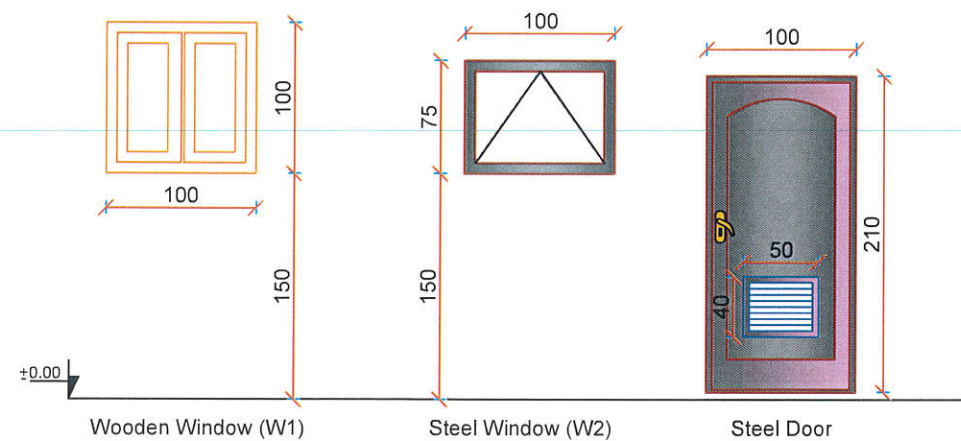
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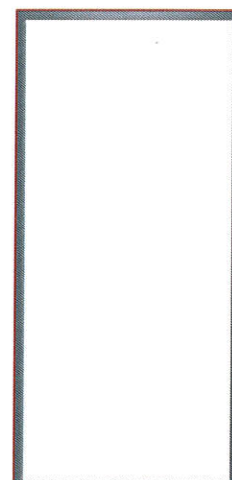
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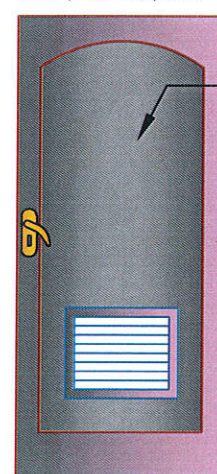
DOOR AND WINDOW SCHEDULE				
Description	Width (cm)	Height (cm)	Material	Remarks
Door	100	210	Steel	Including Louver
Window (W1)	100	100	Wood	4 mm Glass
Window (W2)	100	75	Steel	Top Hinged No Glazing Direction is Outside Upward

Angle (40x40x4) mm

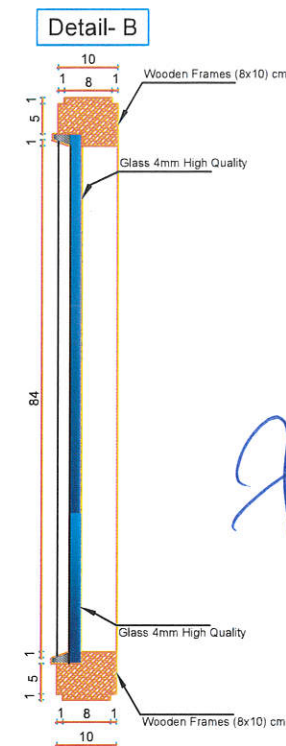
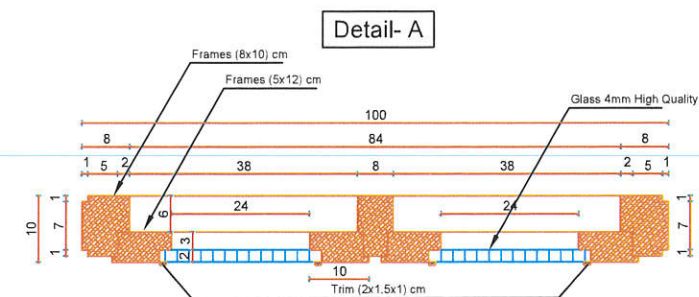
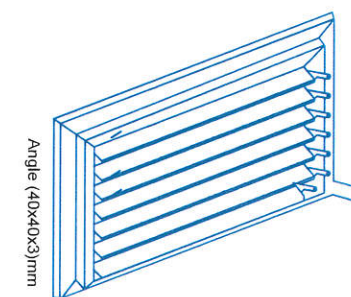
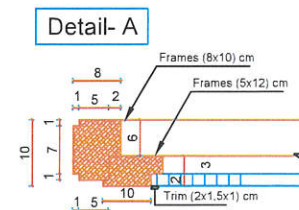
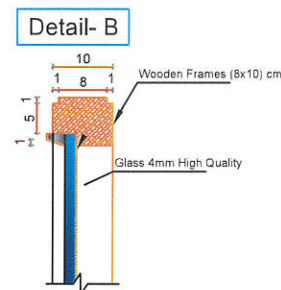
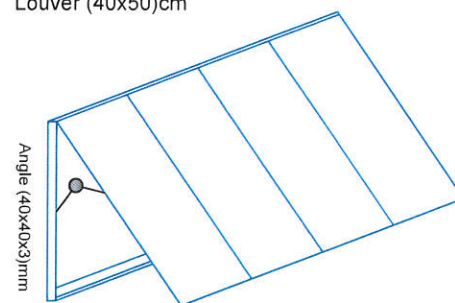
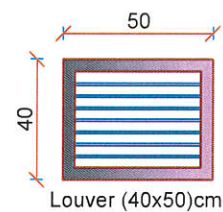


Door Frame

Box (40x40x3) mm



18 Gauge Corrugated Metal Sheet



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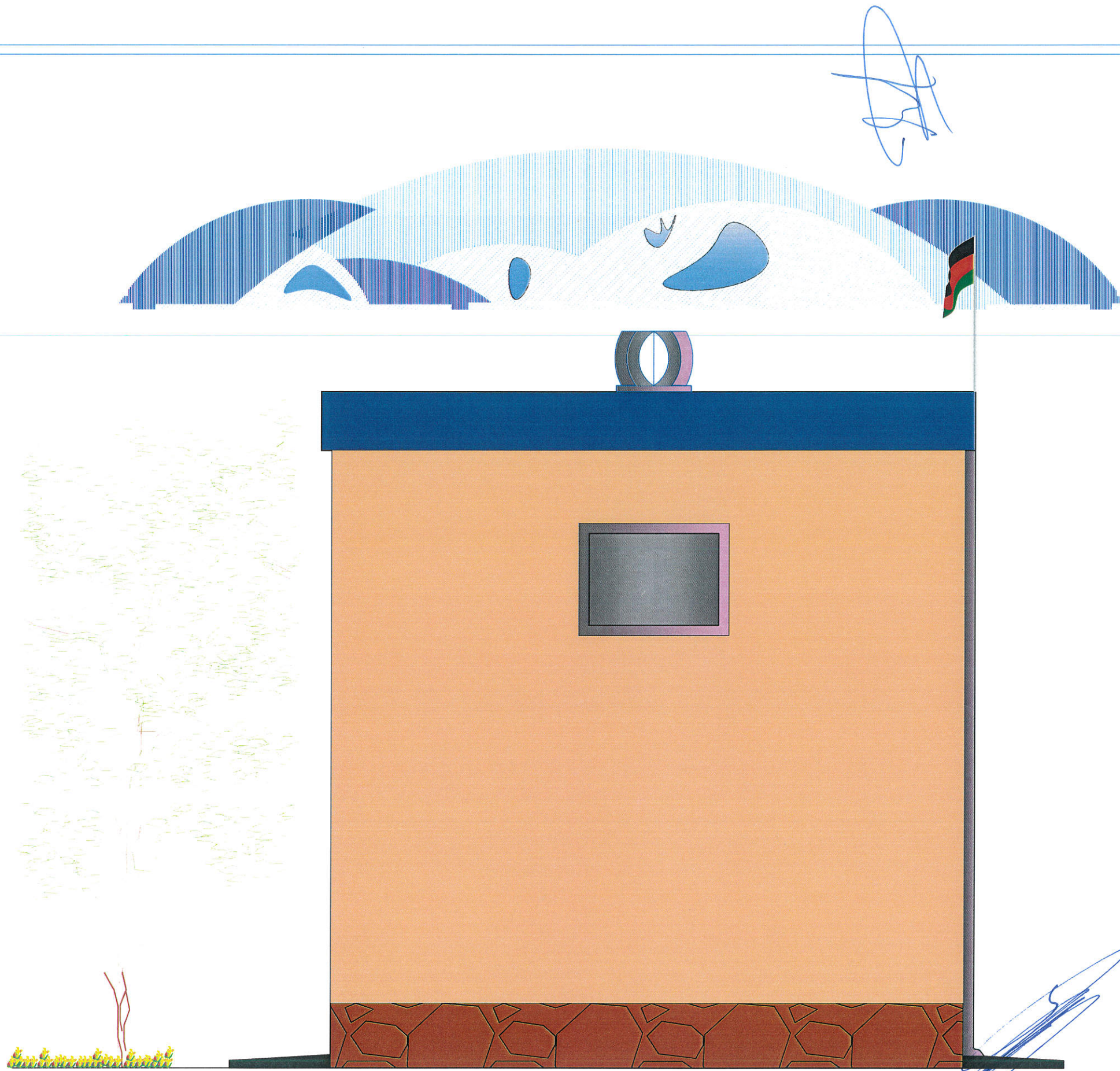
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