MHERCHYA KUMA (Traditional Hyolmo House)

Helambu Housing Reconstruction Programme

Prepared by:

Aashraya Nepal in Association with HEAL Nepal and Hyolmo Foundation

Submitted to:

National Reconstruction Authority, Kathmandu, Singha Durbar



AASHRAYA NEPAL

Patandhoka, Lalitpur, Nepal

Email id: aashraya.nepal@gmail.com Contact no: 9851009700, 9851223595

MHERCHYA KUMA, ONE-STOREY

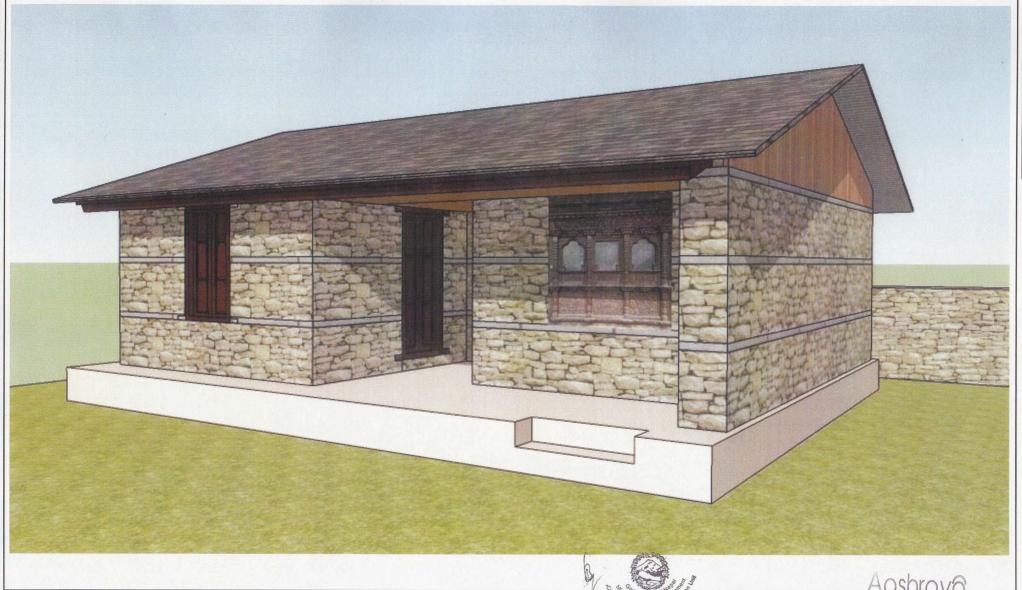
SMC-1

Model SMC-1 is a one storey building called "Mherchya Kuma" which consists of two bedrooms of dimensions 3000x2750, a living room/kitchen of dimension 4650x2700 + 2700x1950.

The design depicts vernacular architecture and traditional lifestyle of Helambhu region and focuses on earthquake resistant construction using locally available construction materials. Similarly, stonemasonry in cement mortar has been used for structural type (as cement can be transported with good road access and residents can afford it with income from tourism), CGI sheet is used for covering the roof along with Metal Truss and purlins. The model has been based on the revised National Building Code of Nepal(NBC) in order to ensure that earthquake resistant construction measures are included. This includes the provision of horizontal bands, vertical reinforcements, corner reinforcement and T-junctions as earthquake resistance elements. Climatic conditions and socio-cultural aspects have also been factored into the design of the house. The design concept and the objective of the design is to vernacular architecture and traditional lifestyle contributing towards resilient models to improve safety in future earthquakes.









TYPE OF HOUSE:

MODEL SMC-1

DRAWING TITLE:

PERSPECTIVE VIEW

SCALE: NONE

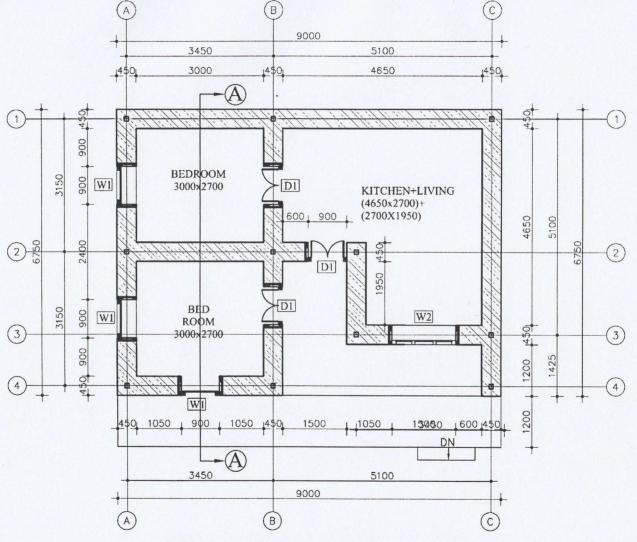
NE

DATE:

नेपाइMC-1

DESIGNED BY:

Aashraya Nepal





GROUND FLOOR PLAN

60.75 SQ M



Nepal Housing Reconstruction Programme TYPE OF HOUSE:

MODEL SMC-1

DRAWING TITLE:

PLAN

SCALE:

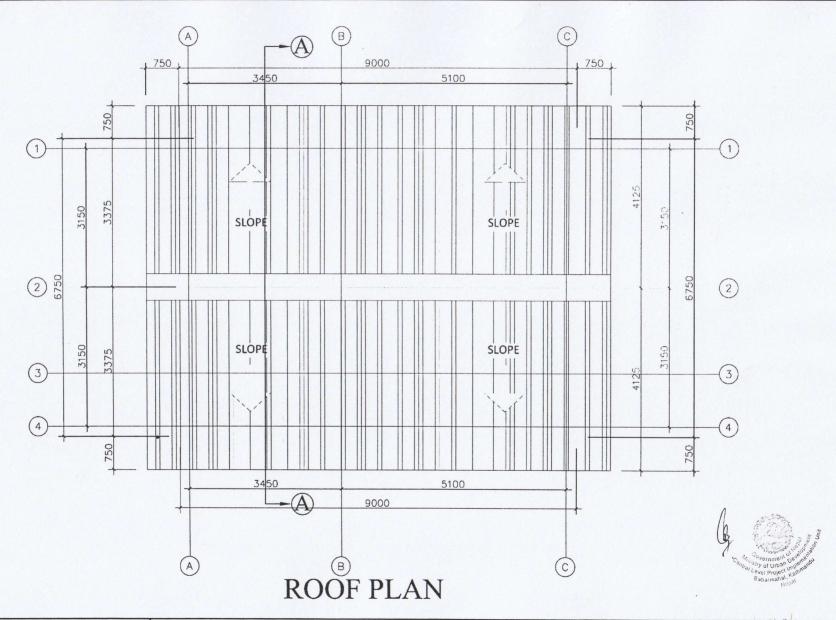
DESIGNED BY:

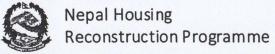
1/50

DATE:

SMC-1

Aashraya Nepal





nme DRAWIN

TYPE OF HOUSE: MODEL SMC-1

PLAN

DRAWING TITLE:

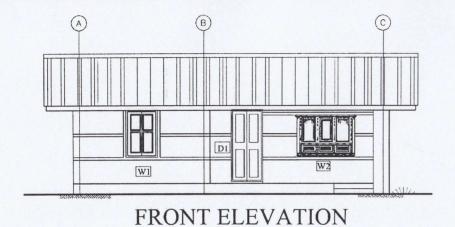
SCALE: 1/50

DATE:

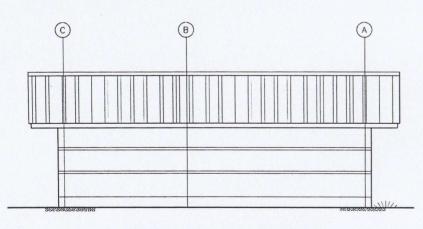
SMC-1

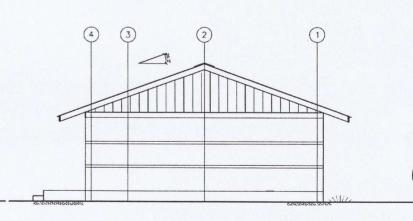
DESIGNED BY:

Aashraya Nepal



RIGHT ELEVATION





BACK ELEVATION

LEFT ELEVATION

DESIGNED BY:



Nepal Housing Reconstruction Programme

TYPE OF HOUSE:

MODEL SMC-1

DRAWING TITLE:

ELEVATIONS

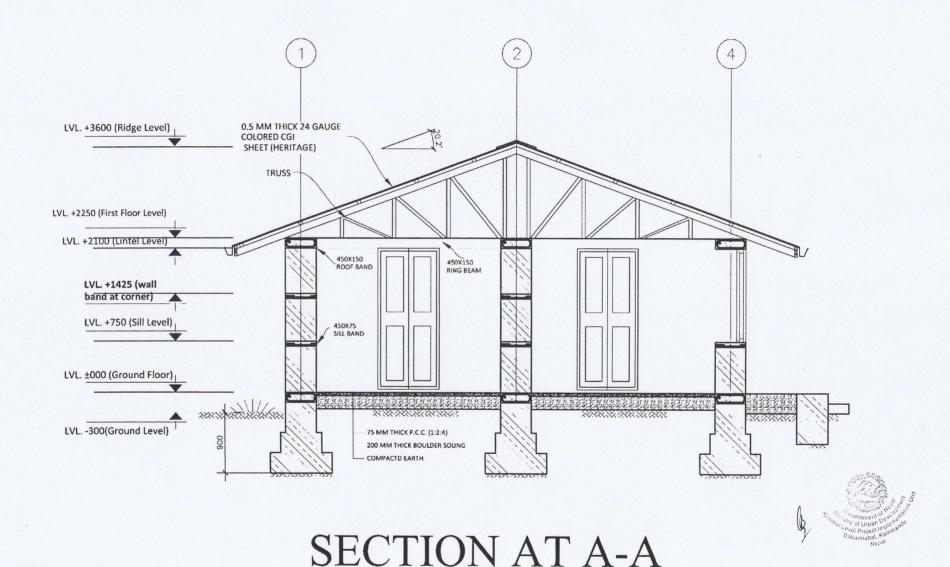
SCALE:

1/100

DATE:

SMC-1

Aashraya Nepal



TYPE OF HOUSE:

DRAWING TITLE:

MODEL SMC-1

1/50

SCALE:

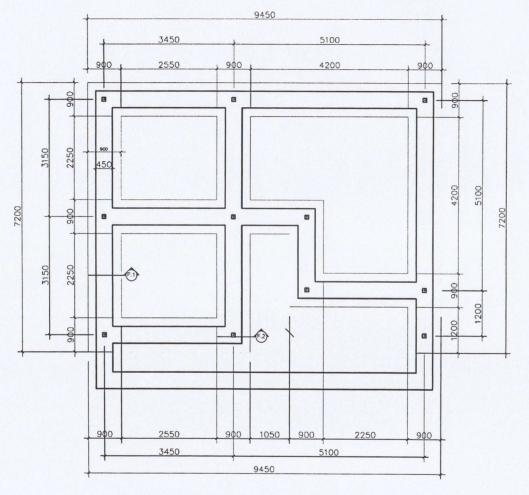
DATE:

SMC-1

SECTION

DESIGNED BY:

Aashraya Nepal Fully







Ne
Re

TYPE OF HOUSE:

MODEL SMC-1

SCALE:

DATE:

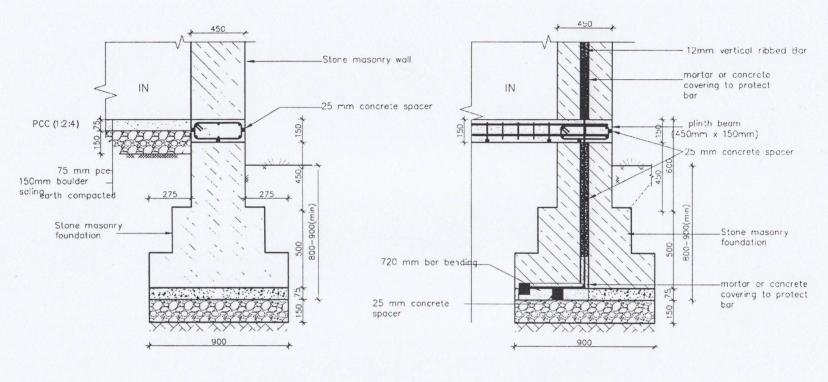
SMC-1

DRAWING TITLE:

FOUNDATION DETAIL

DESIGNED BY: Aashraya Nepal

1/50



FOUNDATION DETAIL SECTION AT F-1

DRAWING TITLE:

FOUNDATION DETAIL SECTION AT F-2 VERTICAL BAR DETAIL



	-	B	4	
	To the second			
4	7			

Nepal Housing Reconstruction Programme TYPE OF HOUSE: MODEL SMC-1

FOUNDATION DETAIL

SCALE: 1/20

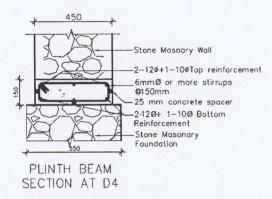
DESIGNED BY:

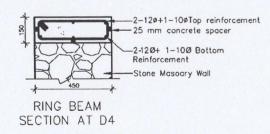
DATE:

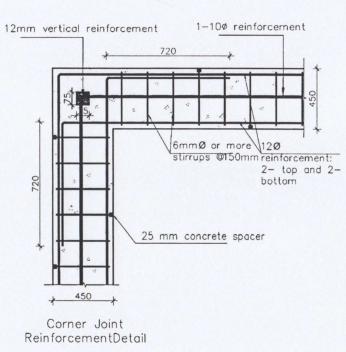
MOUNT

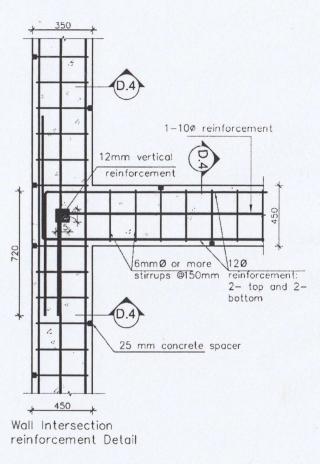
SMC-1

Aashraya Nepal 4









PLINTH BEAM AND RING BEAM DETAILS



8	Nepal Housing
	Reconstruction Programme

	THE OTHOUSE.
mme	DRAWING TITLE:

TYPE OF HOUSE:

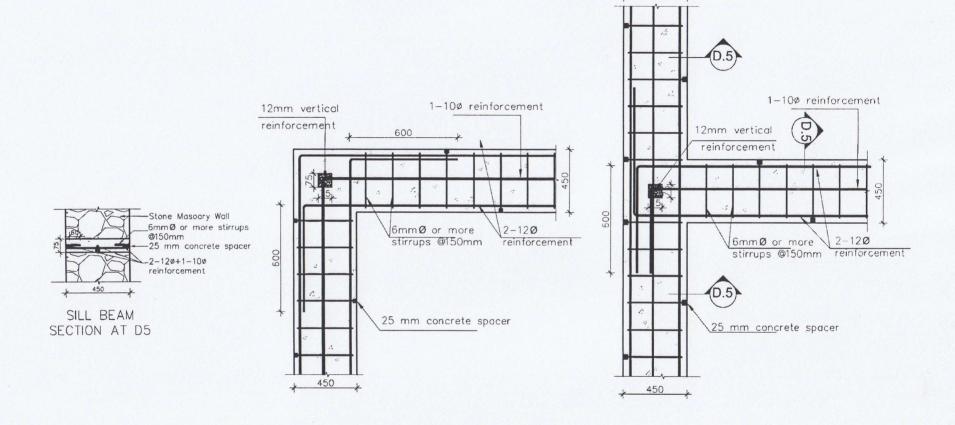
MODEL SMC-1

PLINTH BEAM AND RING BEAM WALL INTERSECTION

SCALE: 1/10

SMC-1

DESIGNED BY: Aashraya Nepal



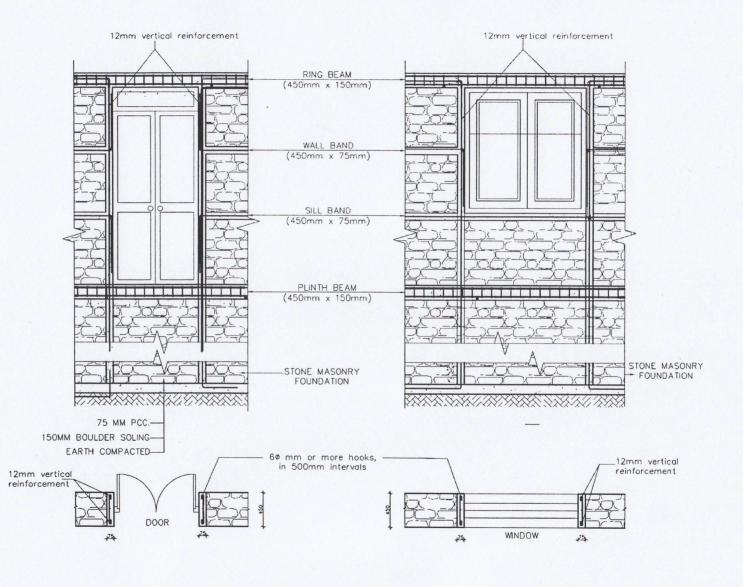
SILL BAND AND WALL BAND DETAILS



8	Nepal F		
	Recons		

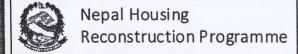
Nepal Housing
Reconstruction Programme

		in a contract that the		
TYPE OF HOUSE:	MODEL SMC-1	SCALE: 1/10	DATE:	SMC-1
DRAWING TITLE:	SILL AND WALL INTERSECTION	DESIGNED BY: Aash	nraya Nepal &	9/13









TYPE OF HOUSE: MODEL SMC-1 DRAWING TITLE:

DESIGNED BY:

1/10

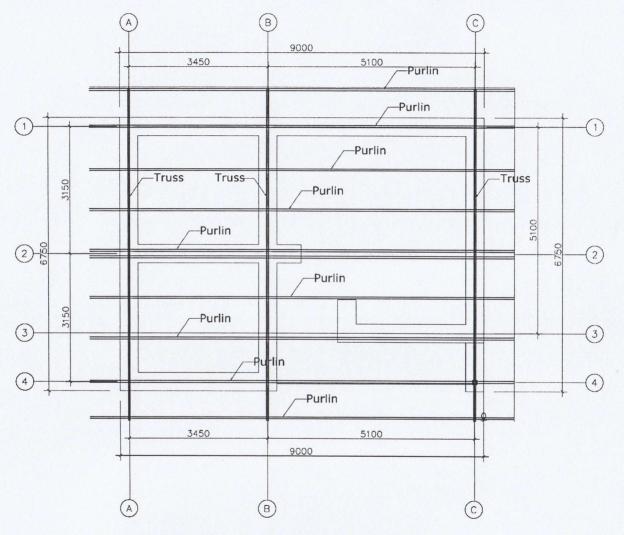
SCALE:

DATE:

SMC-1

DOOR AND WINDOW BEAM TIE

Aashraya Nepal





SCALE 1:100



Nepal Housing Reconstruction Programme

TYPE OF HOUSE: MODEL SMC-1

DRAWING TITLE: ROOF TRUSS

SCALE: 1/10

DATE:

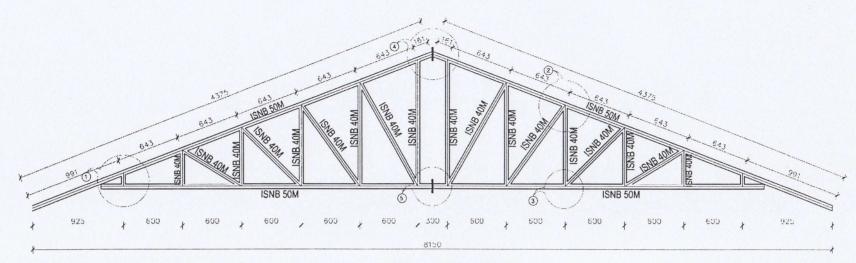
William

DESIGNED BY:

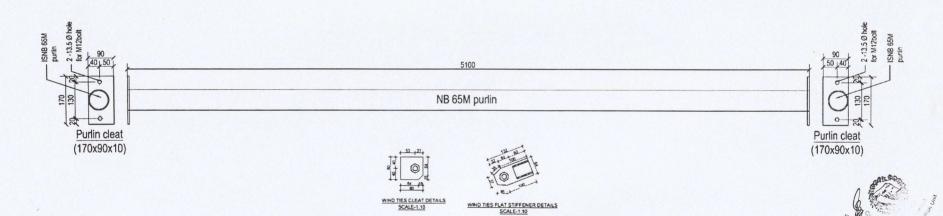
Aashraya Nepal Mail.

11/13

SMC-1



TRUSS SECTION





TYPE OF HOUSE:

MODEL SMC-1

DRAWING TITLE:

ROOF TRUSS

SCALE:

DESIGNED BY:

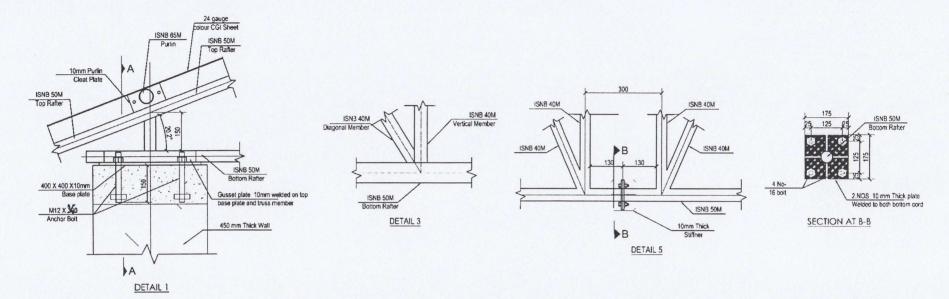
1/50

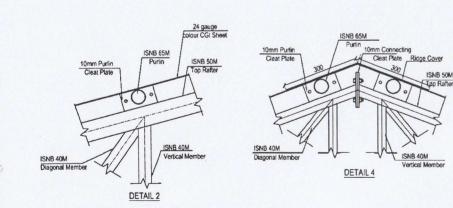
DATE:

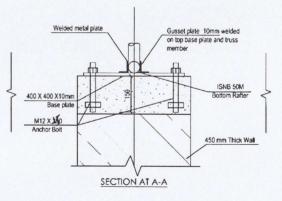
TE: 1051

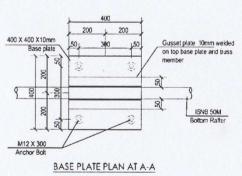
SMC-1 12/13

Aashraya Nepal Lung 12









TRUSS JOINT DETAILS



MEM	

Nepal Housing Reconstruction Programme

TYPE OF HOUSE:

DRAWING TITLE:

MODEL SMC-1

ROOF TRUSS

SCALE: 1/20 DATE:

SMC-1

DESIGNED BY: Aashraya Nepal

Aashraya Team

Ar. Kumar Yonjan

Ar. Rakesh Maharjan

Ar. Resma Shrestha

Ar. Prajjwal Pathak

Ar. Prashant Sharma

Ar. Sudip Adhikari

Er. Sudip KC (Str. Engineer)

Hyolmo Foundation/HEAL Nepal

General Secretary/Director

Tashi D. Hyolmo