

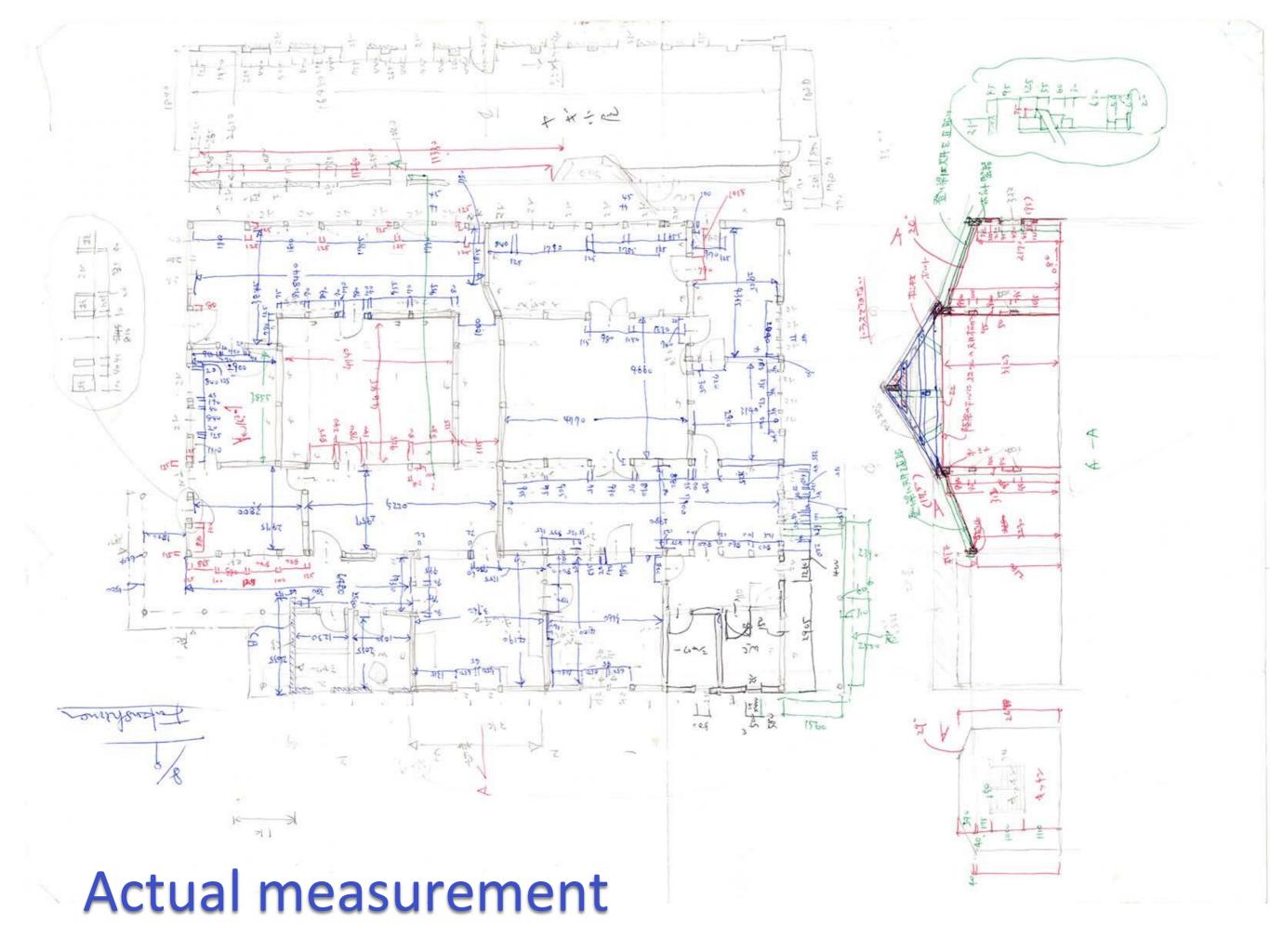
Research of development and characteristics of historical buildings in Levuka

PURPOSE

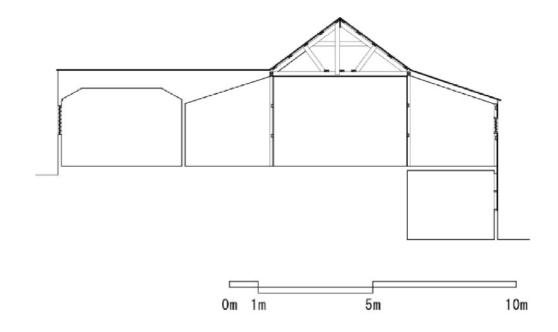
Elucidate the value and development of historical buildings in Levuka

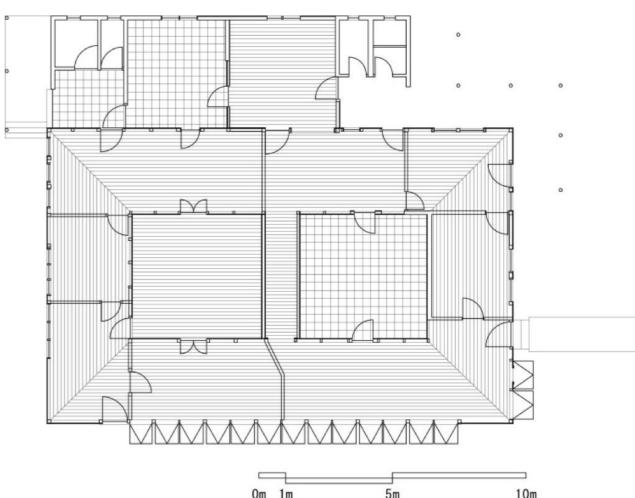
METHODOLOGY

Actual measurement
Trace research
Bibliographic survey
Interview
Photograph comparison

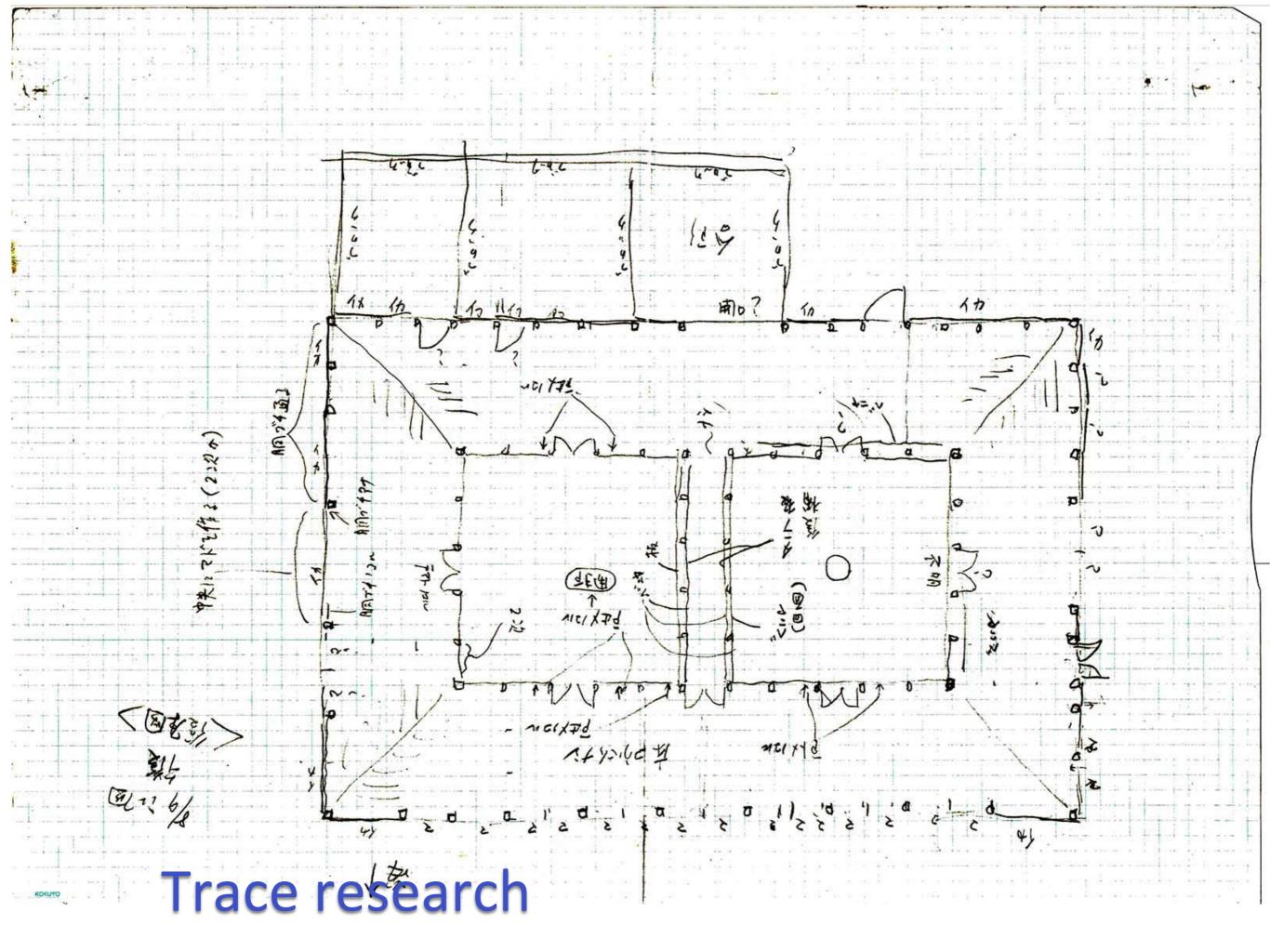






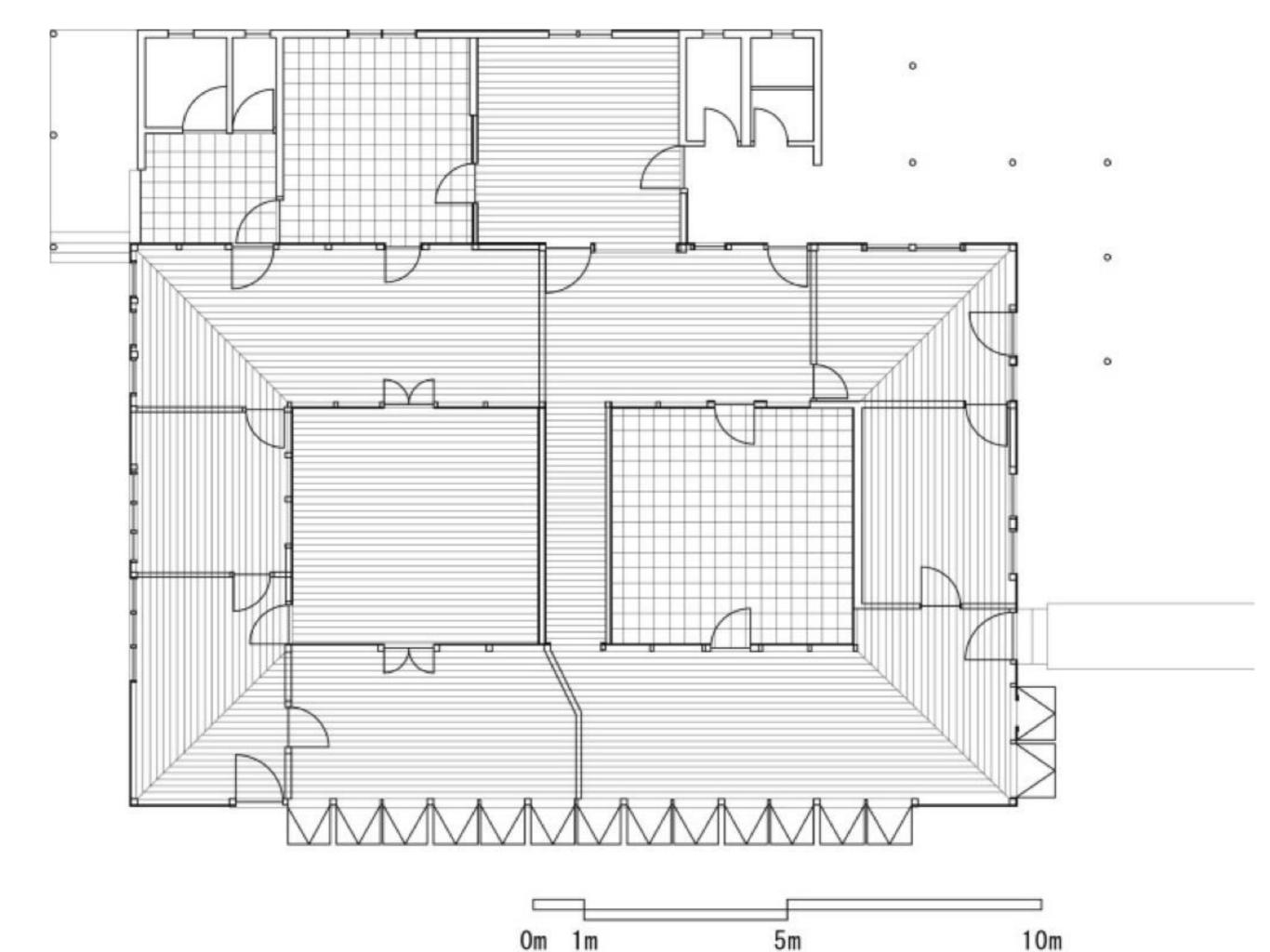


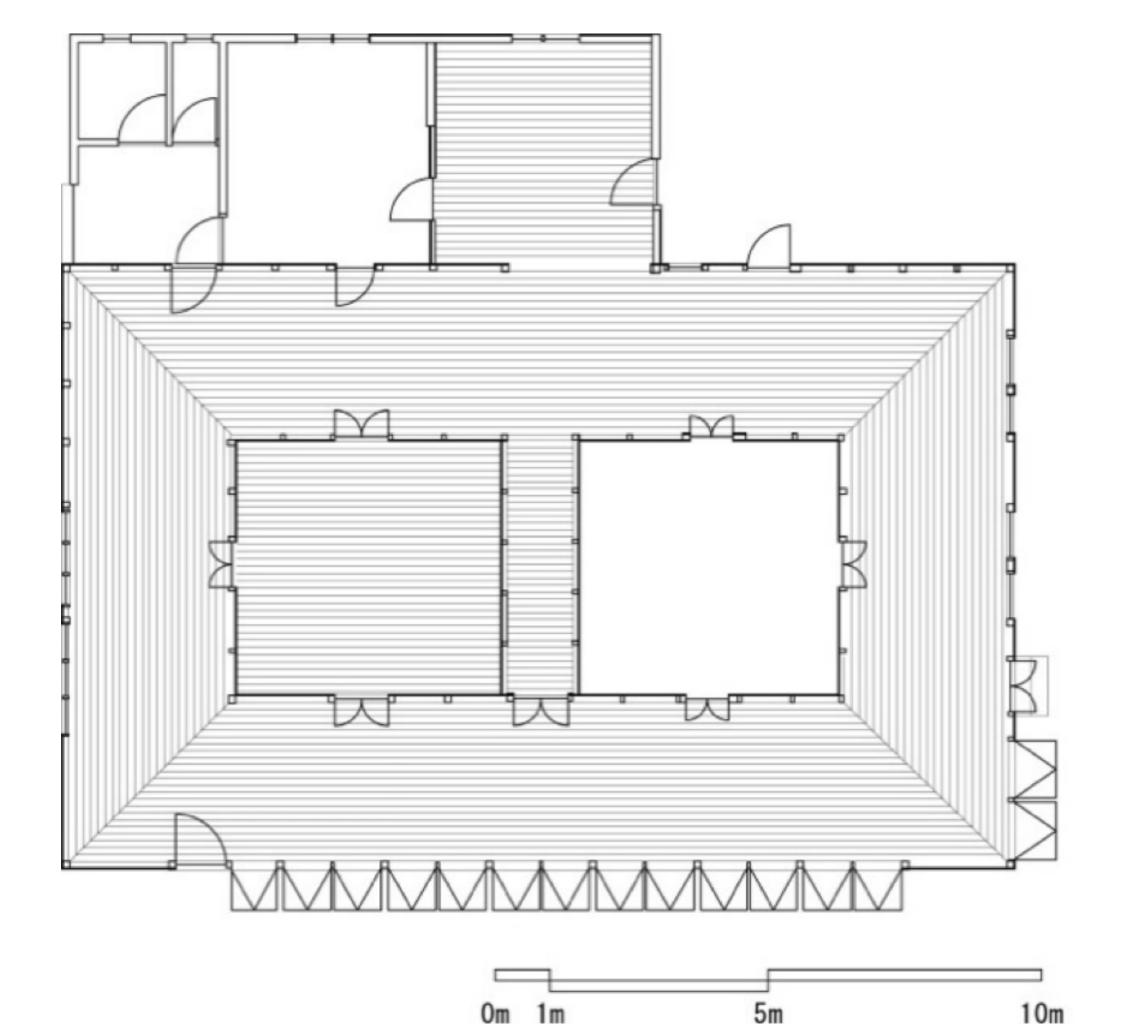
Actual measurement











Target Buildings in Levuka

Residence 82
Shop House 43
Public Building 25



Checked the roof structures 73 Drew the Original Plan 89 Conducted interview 115

Structure Material
Wooden 119
Concrete 25
Stone 6



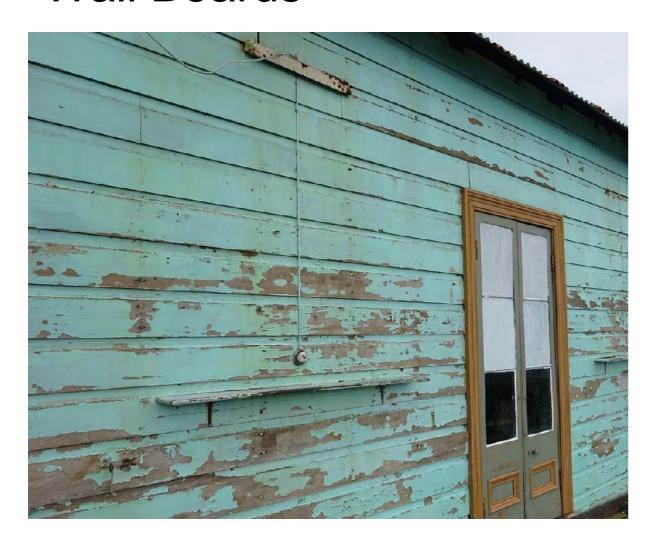
Rules of wooden pillars

2×4 inc

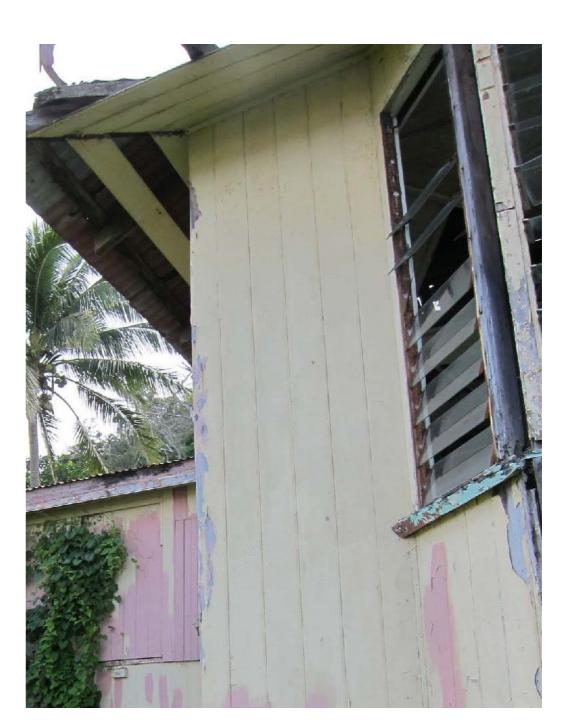
2×3 inc

4×4 inc

Wall Boards







Tongue and Groove Boards

Roofing Materials



Galvanized iron



Shingle Roof



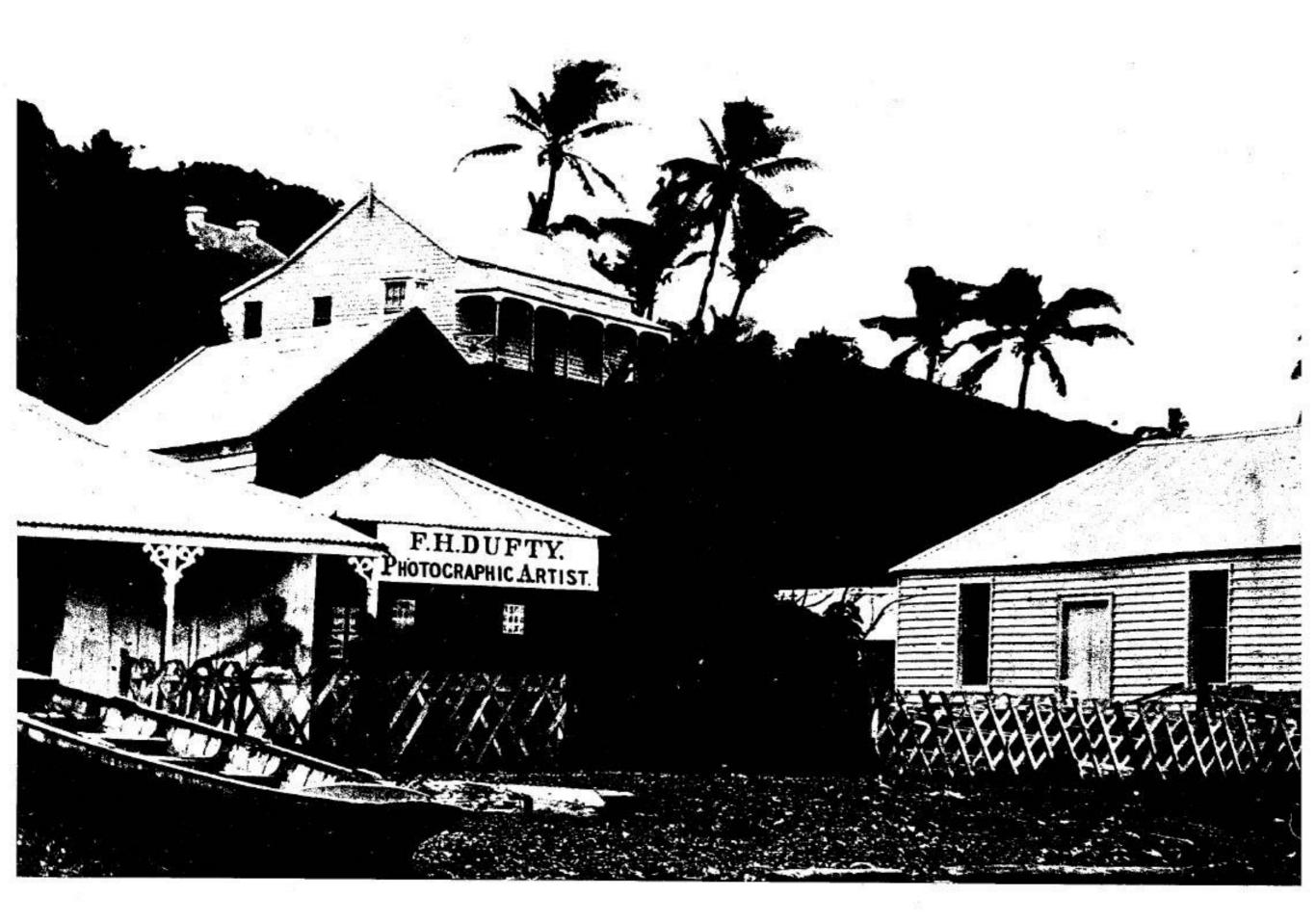


Residence

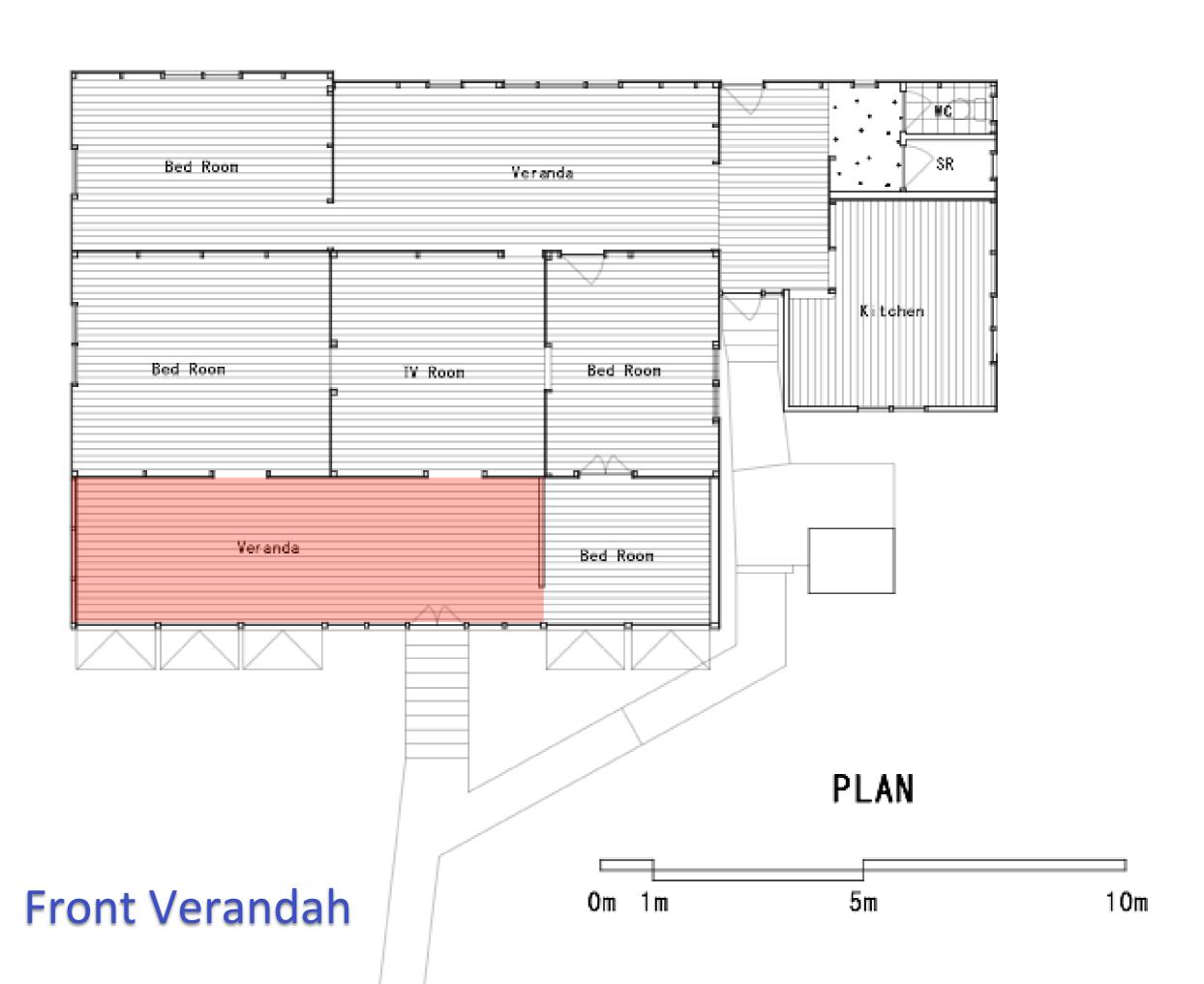
Catalogue House

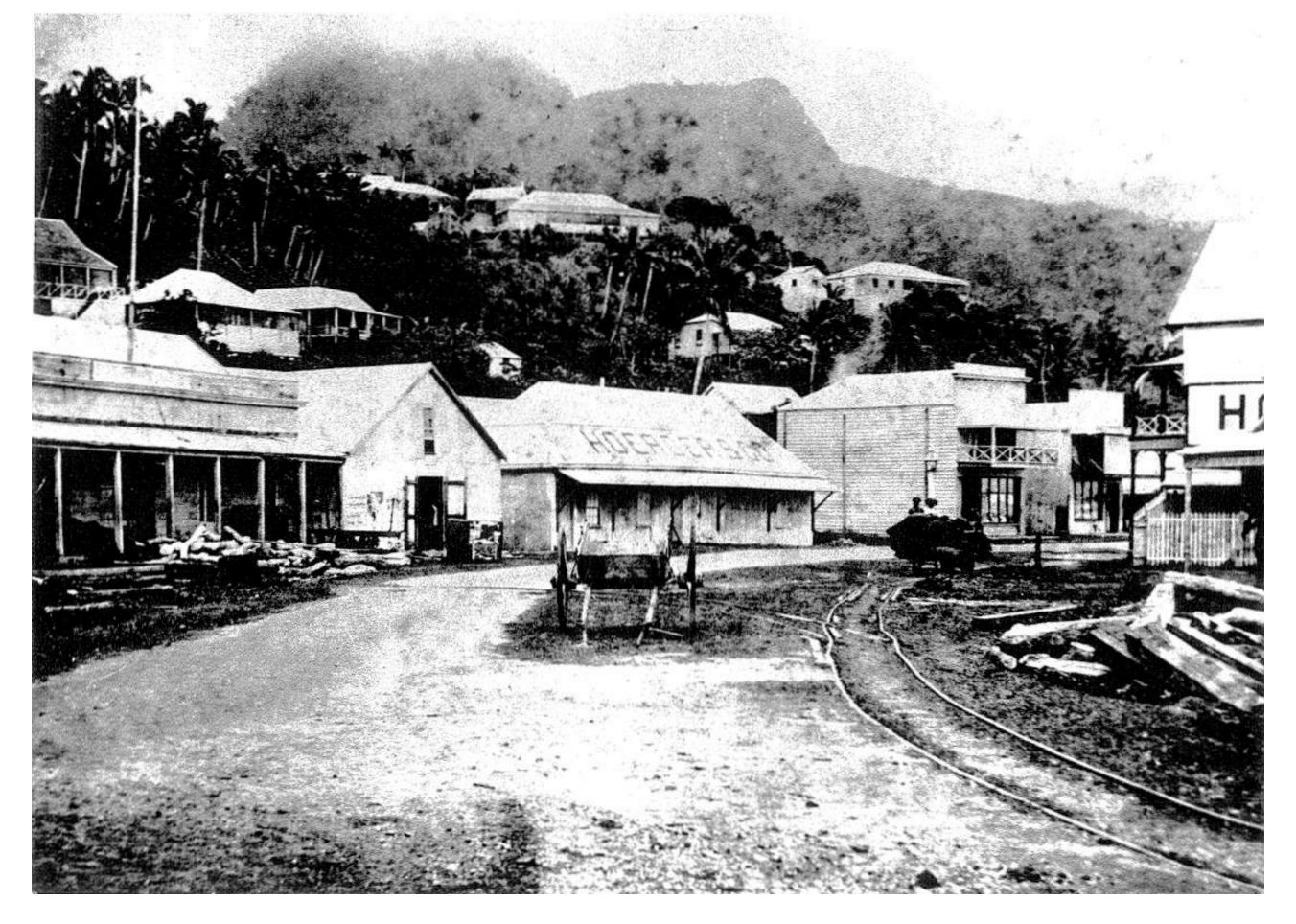


Source: George Hudson Limited. 1950, Some designs of Hudson's "Ready-Cut" homes, Collection in Sydney living museums



Collection in Fiji museum

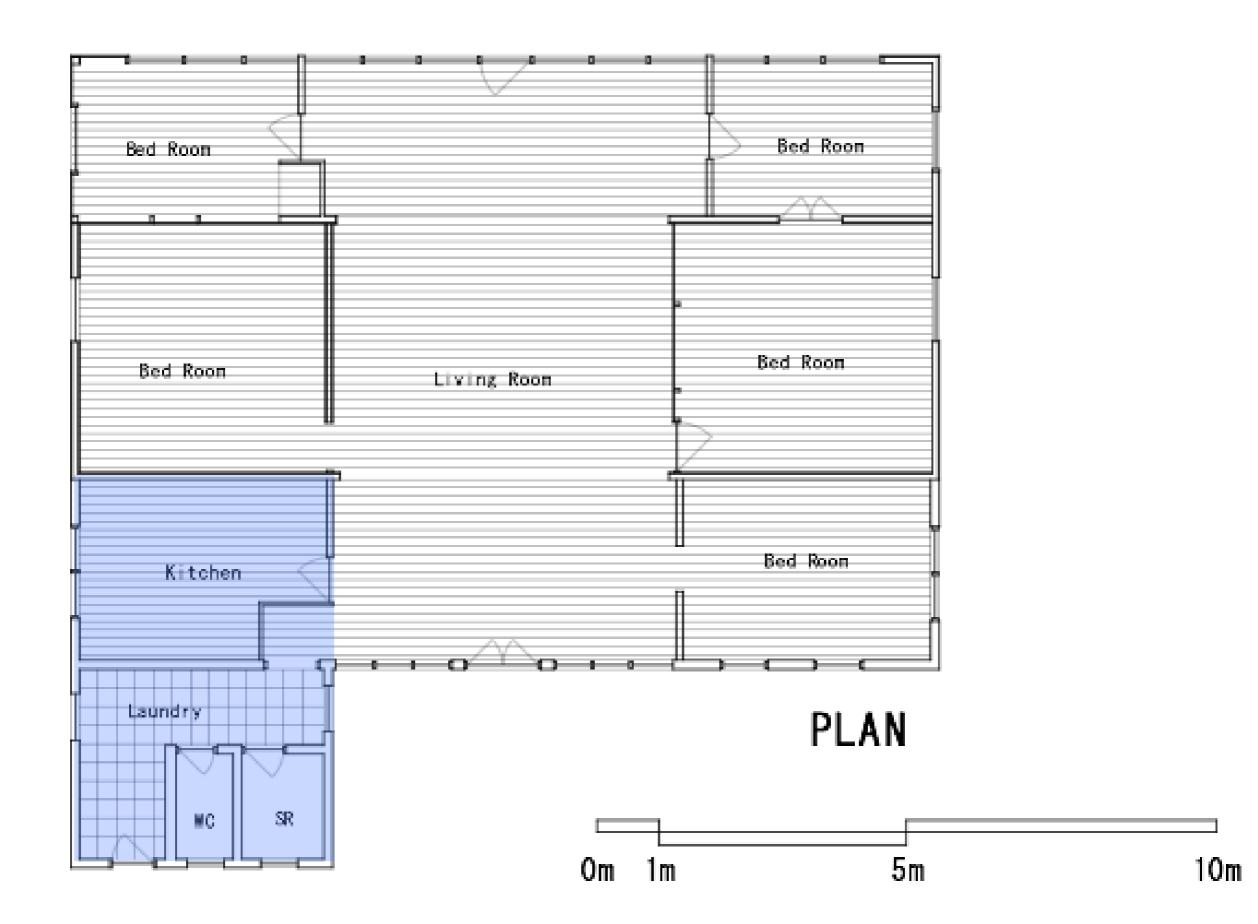




Collection in Fiji museum



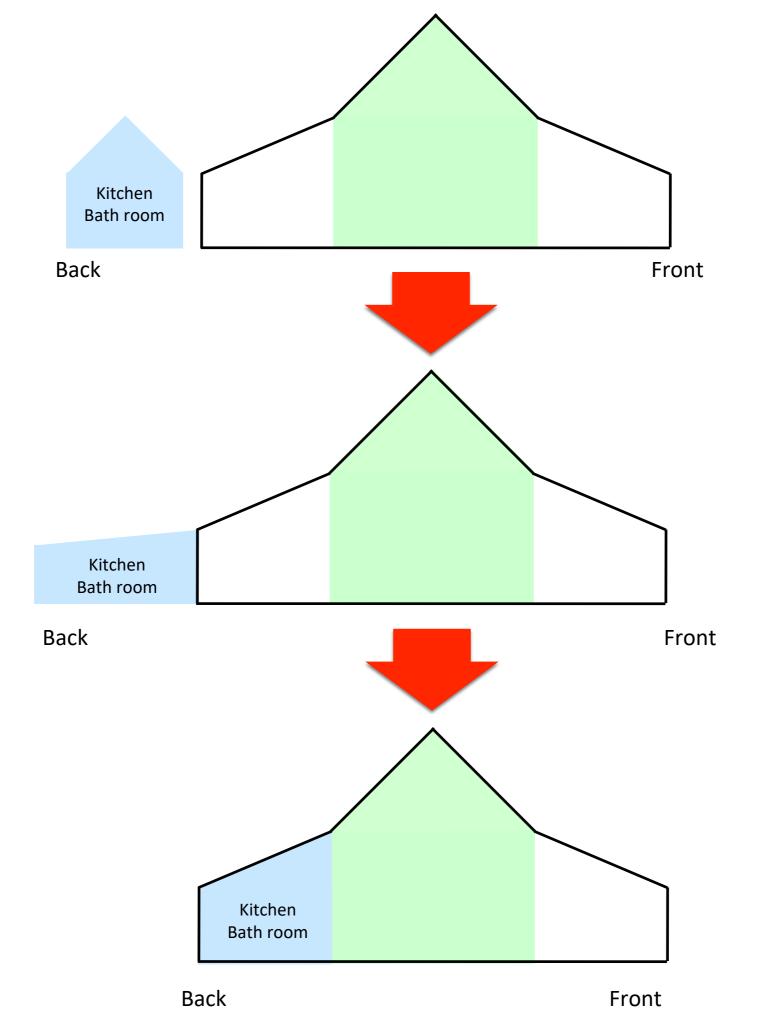




Back Verandah



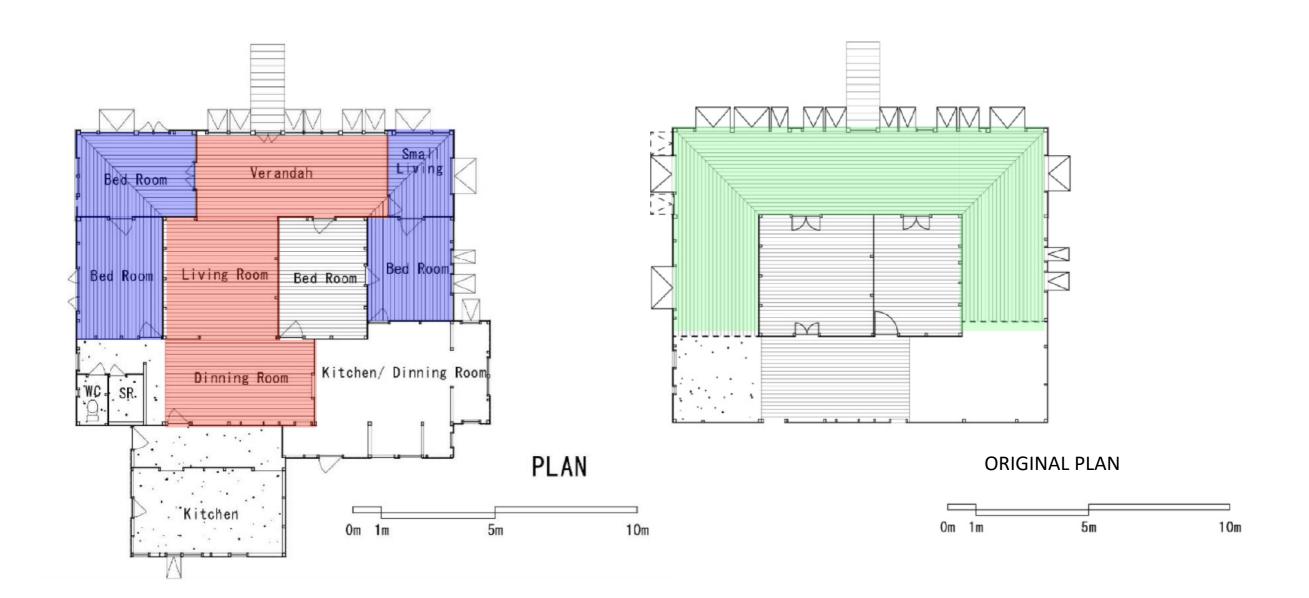


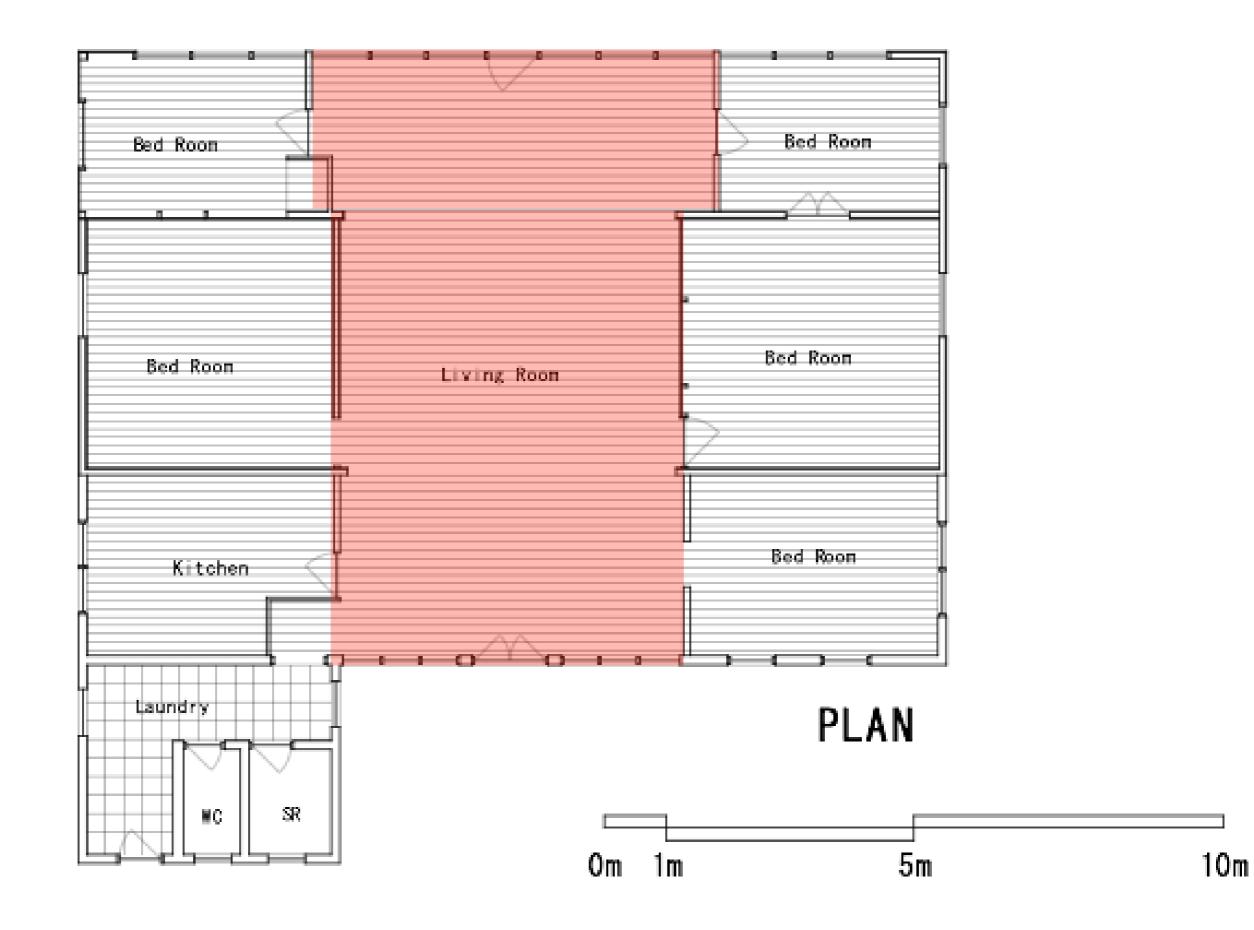


Changing floor plan

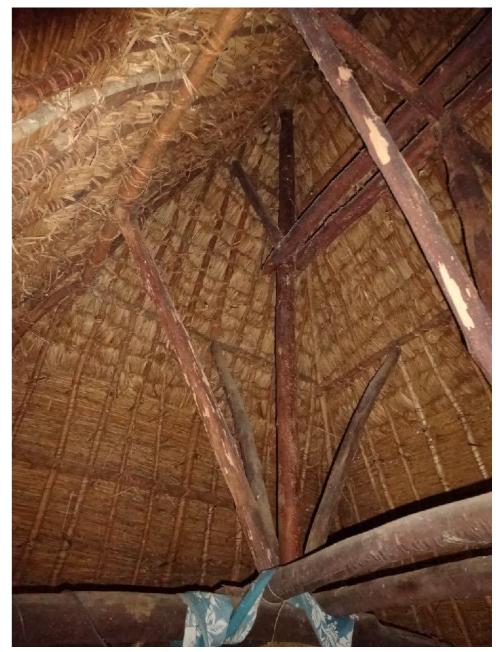
- Segmentation of the Verandah
- Expansion of Living room
- Making of the passage



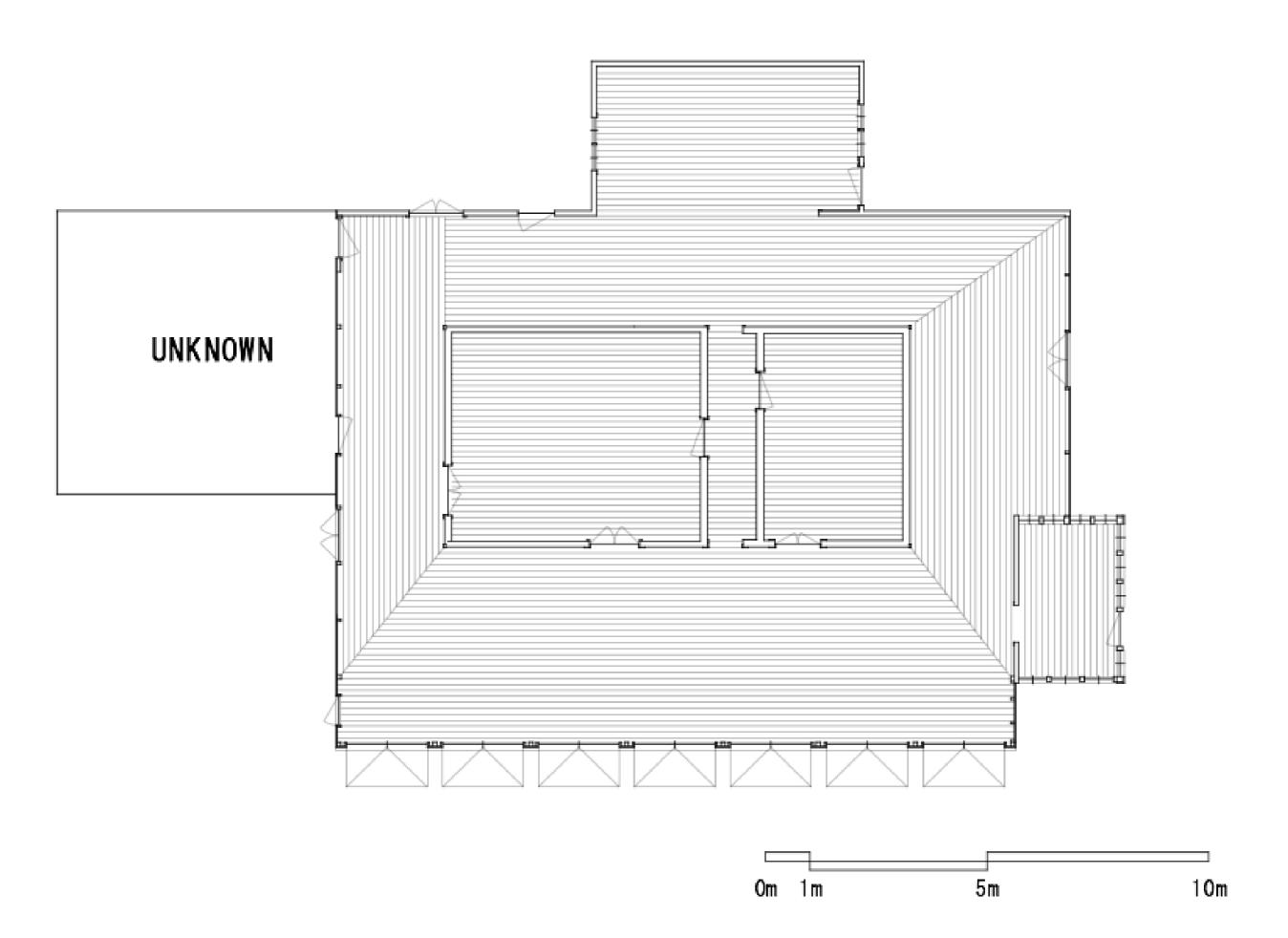


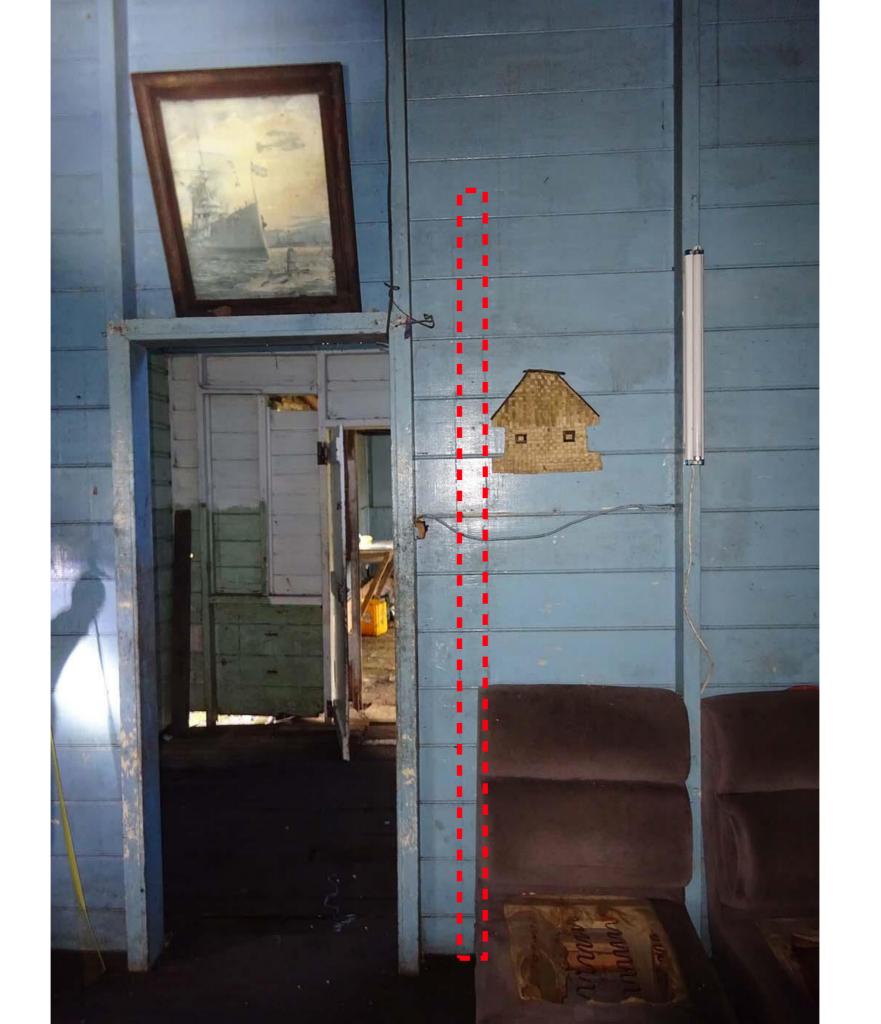






Fijian traditional house "Bule"

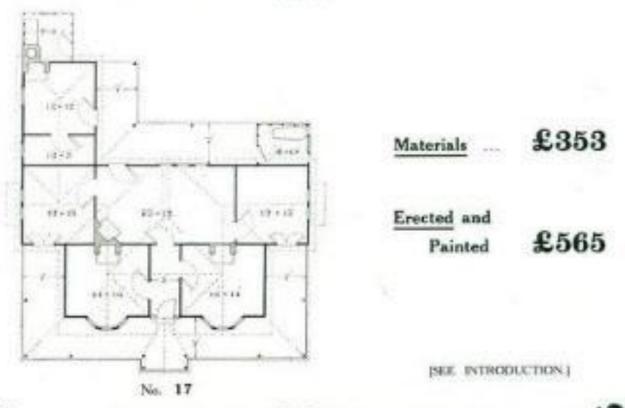




Cueo Hudson & Son L. Regent S! Redfern

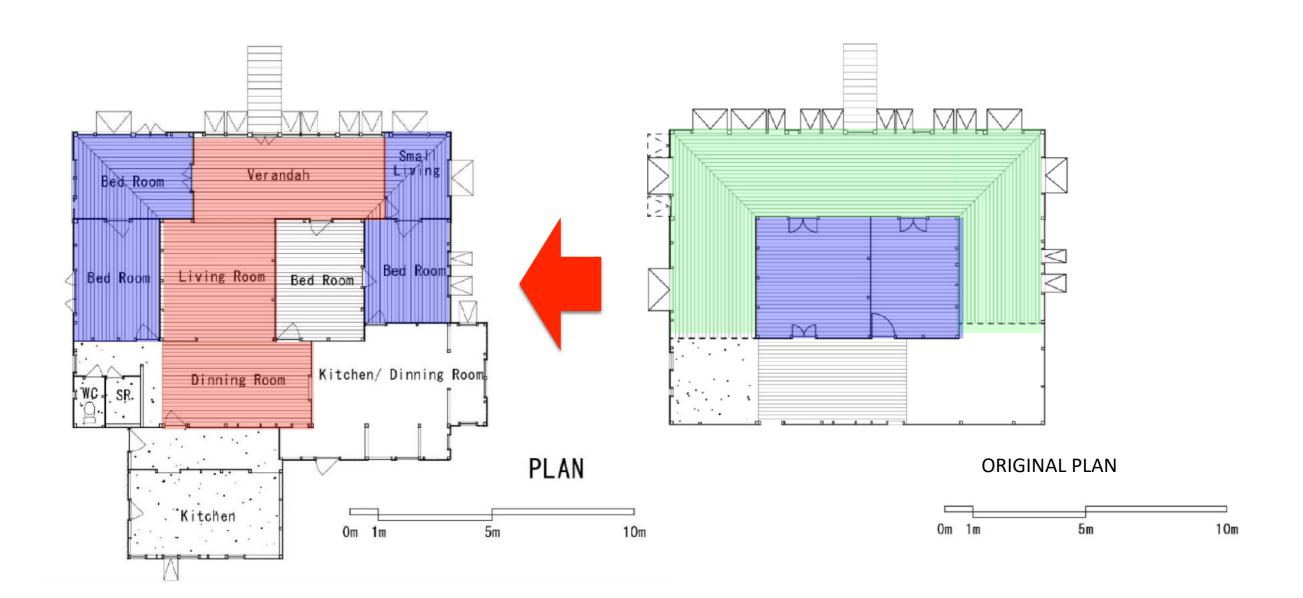


No. 17



(Weatherboard Cottages Erected Complete Angushere)

Source: George Hudson Limited. 1915, *Cottage homes,* Collection in Sydney living museums





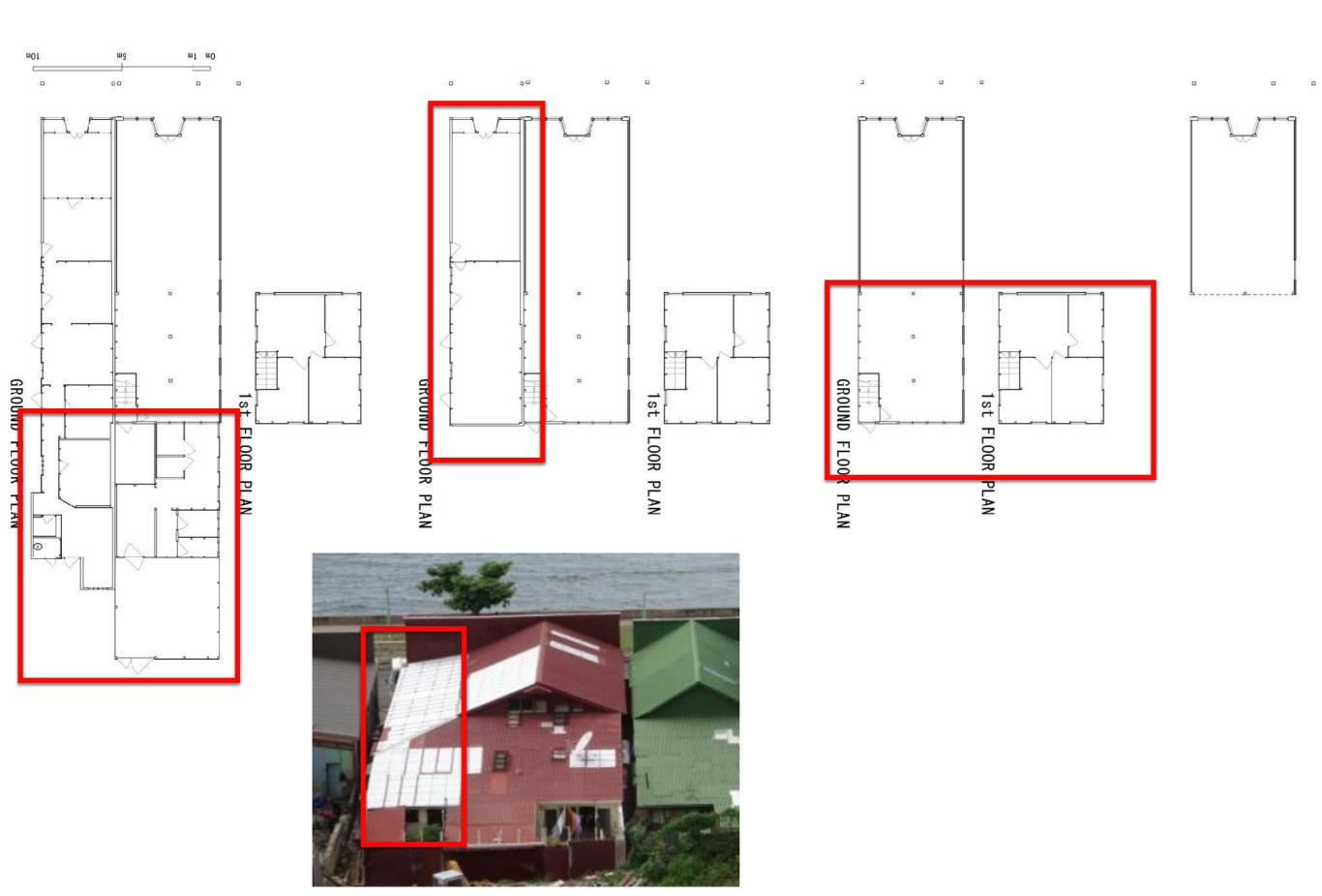
SHOP HOUSE

With Arcade	Gable roof or Hip roof	Without eave	MORRIS F.EDSTROM- SUPERNIARKET	A
		With eave		В
	Skillion roof			C
Without Arcade	Gable roof			D

SHOP HOUSE

- Warehouse
- Small one room
- 2 stories building

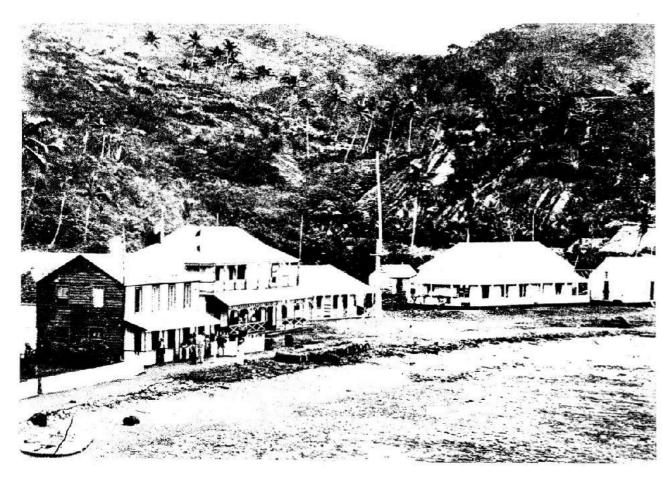




SMALL ONE ROOM



2 STORIES BUILDING



Taken in 1869 Source: Fiji museum



Taken in 1894 Source: Fiji museum

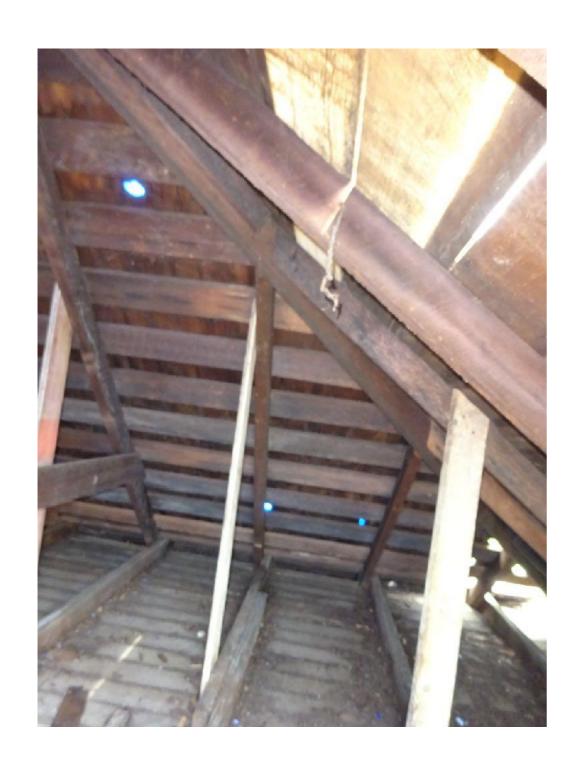


After Hurricane (Taken in 1895)

Source: Fiji museum

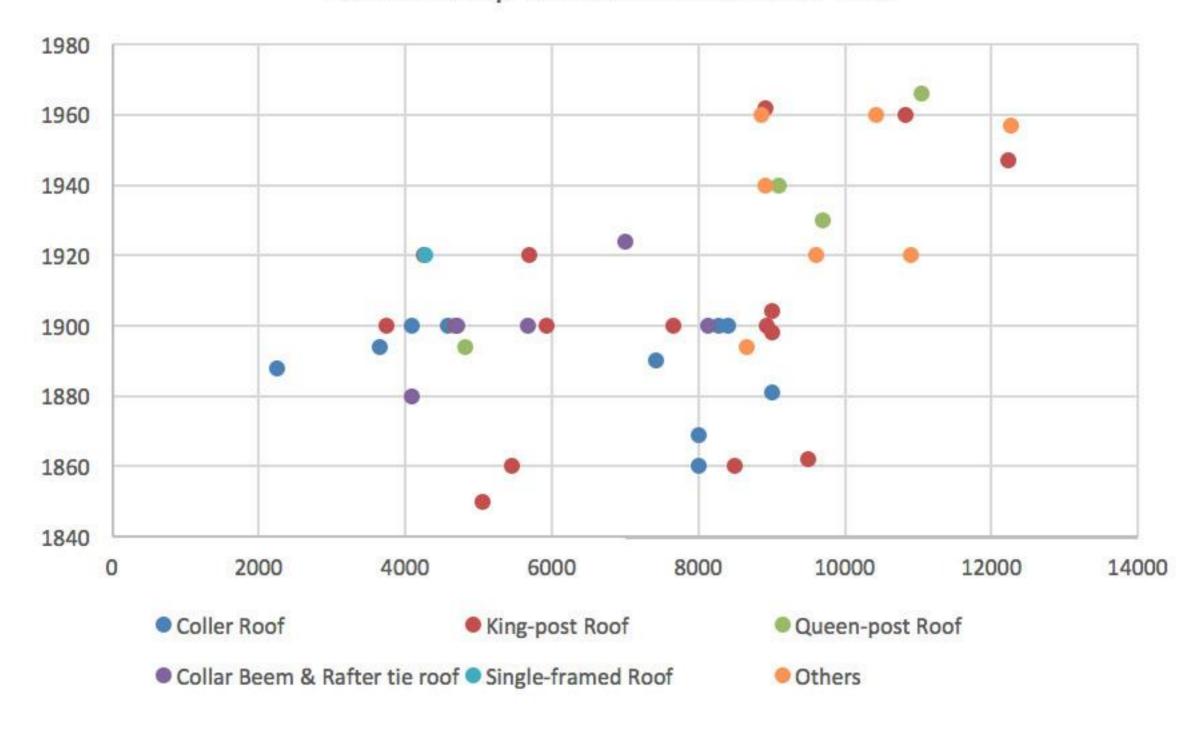
Roof Structure

Single-framed roof	Collar Beam roof	Collar Beam and Rafter tie roof
6	24	5
		Mansard trussSkillion roofScissors truss
King-post roof	Queen-post roof	Others
24	7	7

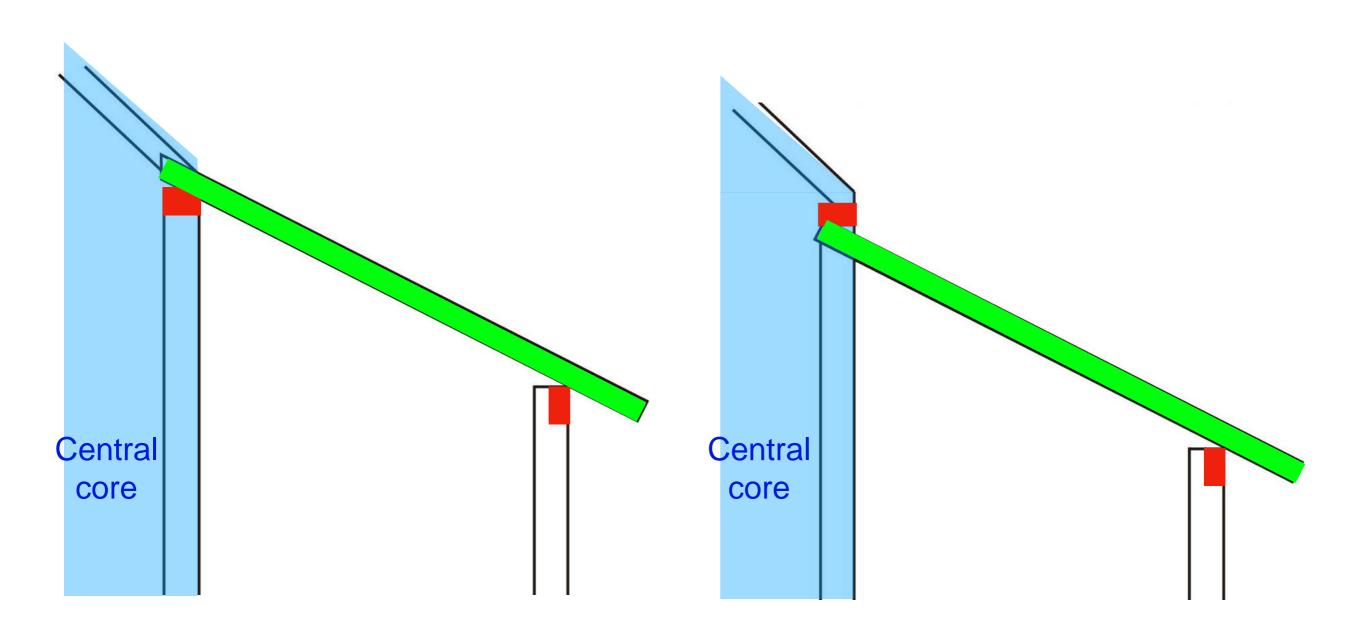




Relationship between Width and Year



Eaves' Rafter



Eaves' Rafter



Conclusion

Residence

- Residences were based on Bungalows and the early time they had open verandahs.
- Bedroom were moved verandahs from central core and living rooms were expanded.

Shop House

- There were bungalow type buildings, but the number of shop house type buildings increased with the development of the town along the beach street of Levuka before the capital time.
- After that many buildings disappeared due to hurricanes. Existing shop house type buildings of Levuka built in the time copra trading, and the original plans of the shop houses is the small one room type.

Roof Structure

- The roof structure is reinforced based on the rafter roof types, and there are few trusses in Levuka.
- There are some devices in verandahs that enable to prevent rising of the rafters.
- Based on the above, it could be considered that these have the shape before the "catalogue house" were developed.
- It is important to know the transition of bungalows.