

3.6 X-Ray Department

3.6.1 Description

The building is a small masonry building with a steep pitch galvanized roof. On the western side of the building is a concrete flat roof addition.

3.6.2 Hurricane Damage

On either end of the western side, the galvanized sheets were dislodged .(Photos H.X-1, H.X-2) The double door to the housekeeping department had impact damage. The ceiling within housekeeping was damaged.

3.6.3 Inspection

The condition of the roof timbers was very poor. The ceiling prevented the roof structure from visual examination. It was thought that localized repairs in the area of the damaged sheeting can be carried out.

3.6.4 Recommended Repairs

1. Repair 6-ft in from the edge of the roof at each side.
2. Repair the ceiling and repaint the room.
3. Replace the damaged doors.

3.6.5 Estimated Cost of Repairs

The estimated cost of repairs is **US\$ 6,200.00**. Summary of the cost is shown on the following page.

Health Services Facilities - Antigua

Holberton General Hospital - X-Ray Department

Estimated Cost of Repairs

Summary

Item No	Description		
1	Replace sheets		\$3,030
2	Replace ceiling		\$1,680
3	Replace door		\$1,600
4	Painting		\$2,000
5	Rebuild shutter		\$1,200
			\$9,510
	Preliminaries & overheads (33%)		\$3,140
			\$12,650
	Contingency (10%)		\$1,270
			\$13,920
	Consultancy fees (20%)		\$2,800
	Total estimated cost (EC\$)		\$16,700
	Total estimated cost (US\$)		\$6,200

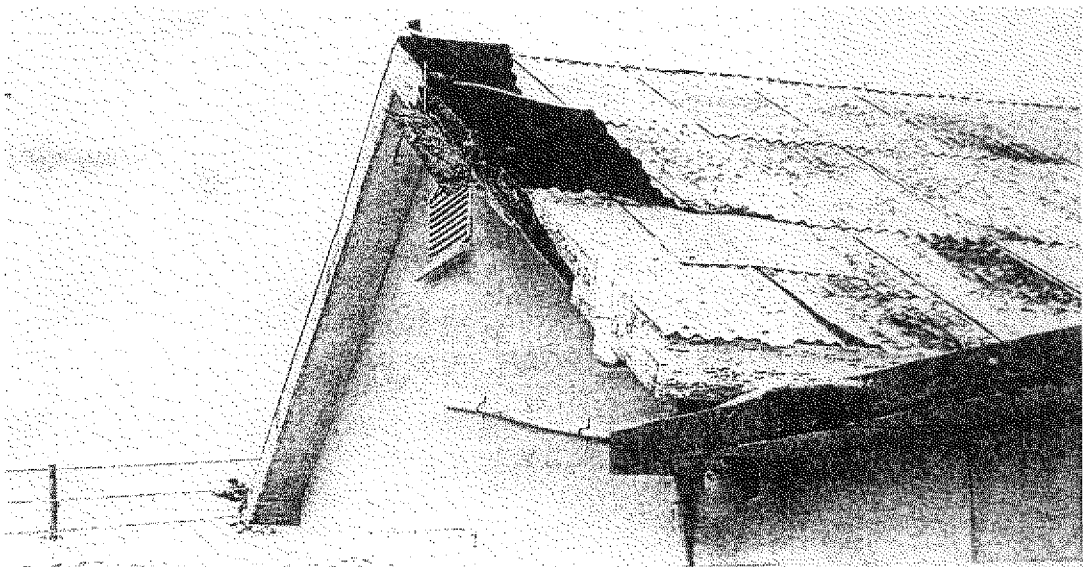


Photo HX-1: Roof sheeting damaged at gable ends.

3.7 Kitchen

3.7.1 Description

This is a single storey building approximately 46-ft x 26-ft with a gable galvanized roof and a 46-ft x 10-ft concrete flat roof building juxtaposed to the first.

3.7.2 Hurricane Damage

There was only slight damage to the fascia and gutters.

3.7.3 Inspection

There was nothing amiss.

3.7.4 Recommended Repairs

1. Replace the gutters and fascia boards.

3.7.5 Estimated Cost of Repairs

The estimated cost of repairs is **US\$ 3,100.00**. Summary of the cost is shown on the following page.

Health Services Facilities - Antigua

Holberton General Hospital - Kitchen

Estimated Cost of Repairs

Summary

Item No	Description		
1	Replace gutters and fascia		\$3,552
2	Painting		\$1,296
			\$4,850
	Preliminaries & overheads (33%)		\$1,600
			\$6,450
	Contingency (10%)		\$650
			\$7,100
	Consultancy fees (20%)		\$1,400
	Total estimated cost (EC\$)		\$8,500
	Total estimated cost (US\$)		\$3,100

3.8 Edwards' Ward

3.8.1 Description

This is the surgical ward with the theatres on the northern end of the block. The building is a single storey block with a gable galvanized roof. On the western side of the ward is an enclosed walkway.

3.8.2 Hurricane Damage

There were a number of sheets and damaged fascia boards to the pantry. The ward lost a number of timber sash windows. The roof to the theatre leaked. Tiles were dislodged from a wall in the theatre. A window to the theatre was damaged.

3.8.3 Inspection

The building was un-occupied at the time of inspection. The condition of the floor finish was in disrepair.

3.8.4 Recommended Repairs

1. Replace the sheets and fascia board.
2. Repair the windows
3. Seal the concrete roof slab.
4. Re-fix the tiles in the theatres.
5. Re-decorate the area near the leak

3.8.5 Estimated Cost of Repairs

The estimated cost of repairs is US\$ 6,200.00. The summary of the cost is shown on the following page.

Health Services Facilities - Antigua

Holberton General Hospital - Edwards' Ward

Estimated Cost of Repairs

Summary

Item No	Description		
1	Replace sheets		\$1,000
2	Replace fascia		\$1,000
3	Repair windows		\$4,000
4	Replace tiles in theatre		\$1,000
5	Seal concrete roof		\$1,500
6	Painting		\$1,000
			\$9,500
	Preliminaries & overheads (33%)		\$3,140
			\$12,640
	Contingency (10%)		\$1,260
			\$13,900
	Consultancy fees (20%)		\$2,800
			\$16,700
	Total estimated cost (EC\$)		\$16,700
	Total estimated cost (US\$)		\$6,200

3.9 Nurses' Hostel

3.9.1 Description

The complex consists of four three-storey dormitory blocks linked by walkways which formed three sides of a hollow square. In the centre of the square is a single storey classroom block. To the south of the dormitory blocks and linked to them by a single storey covered open walkway, is a single storey lounge and kitchen block. All the blocks were covered with big-six asbestos roof sheeting.

3.9.2 Hurricane Damage

Glass patio door and two pivot doors to the lounge were damaged. The roof to the covered walkway between the dormitory and the lounge was blown off. The roof sheets and windows to the classroom block were broken. (Photo H.N-1). A number of students' desks were water damaged. Two double-doors to the classrooms were damaged. The asbestos sheets to the dormitory blocks were broken at five locations. The ceilings and built-in closets in the rooms under the broken sheets were water damaged.

3.9.3 Inspection

In addition, the expansion joint between the two northern blocks had moved. This expansion facility was not carried through all the structure. The handrail, the roof beam and sheeting were all continuous. (Photo H.N-2). On the steps some of the ceramic tiles were loose.

3.9.4 Recommended repairs

1. Asbestos cement roof sheeting, although used in the past as a very popular roofing material with its non-corrosive and heat insulation properties, have been discontinued on the grounds of health. Its use in hurricane prone countries have been discouraged because of its fragile nature as demonstrated here, and also for its unavailability. Because of this, we recommend that the existing asbestos sheets be removed and a new roof installed.
2. Re-decorate top flats.
3. Replace vinyl tiles in the rooms with the damaged roof.
4. Re-build new built-in furniture.
5. Replace damaged doors and windows.

3.9.5 Estimated Cost of Repairs

The estimated cost of repairs is US\$ 323,100.00. The summary of the cost is shown on the following pages.

Health Services Facilities - Antigua

Holberton General Hospital - Nurses' Hostel

Estimated Cost of Repairs

Summary

Item No	Description		
1	Remove existing roof and cart away		\$61,220
2	Replace new roof and down pipes		\$382,680
3	Joinery and tiling		\$20,220
4	Painting		\$131,314
			\$595,430
	Preliminaries & overheads (20%)		\$119,090
			\$714,520
	Contingency (10%)		\$71,450
			\$785,970
	Consultancy fees (11%)		\$86,500
	Total estimated cost (EC\$)		\$872,500
	Total estimated cost (US\$)		\$323,100

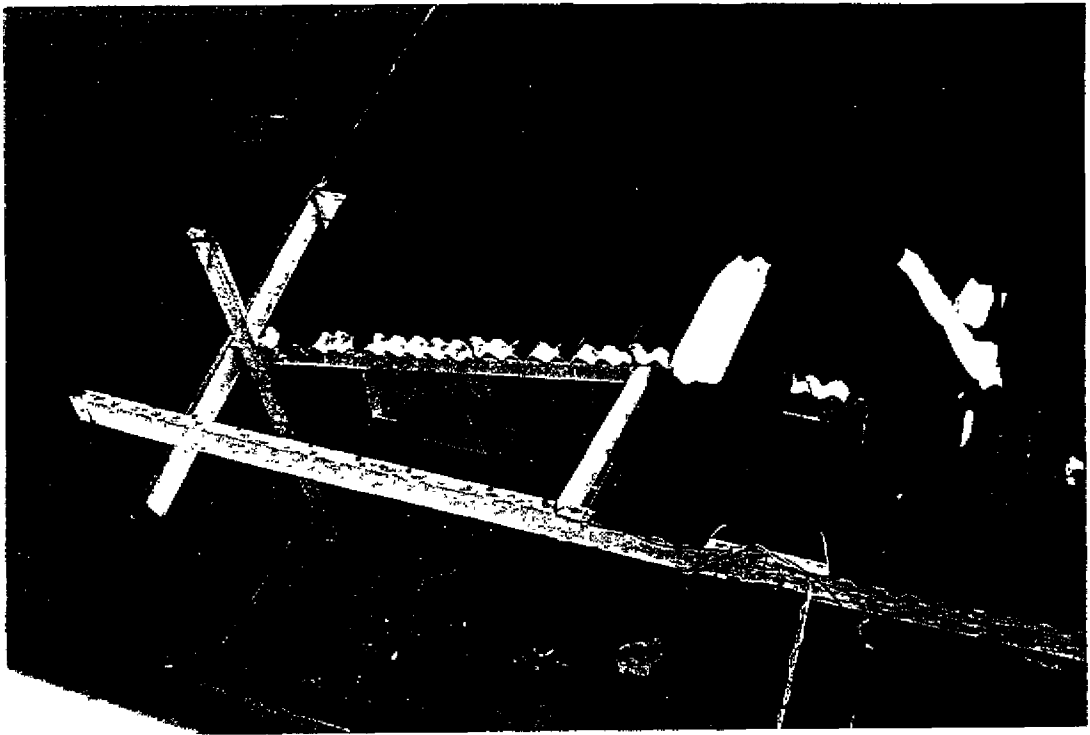


Photo HN-1: Broken asbestos sheets.



Photo HN-2: Expansion joint, no separation at roof level.

Health Services Facilities - Antigua

Holberton General Hospital - Casualty/Administration Block

Estimated Cost of Repairs

Summary

Item No	Description		
1	Repair windows		\$1,200
2	Remove existing felt		\$2,832
3	New APP modified bitumen membrane		\$9,204
			\$13,240
	Preliminaries & overheads (33%)		\$4,370
			\$17,610
	Contingency (10%)		\$1,760
			\$19,370
	Consultancy fees (20%)		\$3,900
	Total estimated cost (EC\$)		\$23,300
	Total estimated cost (US\$)		\$8,600

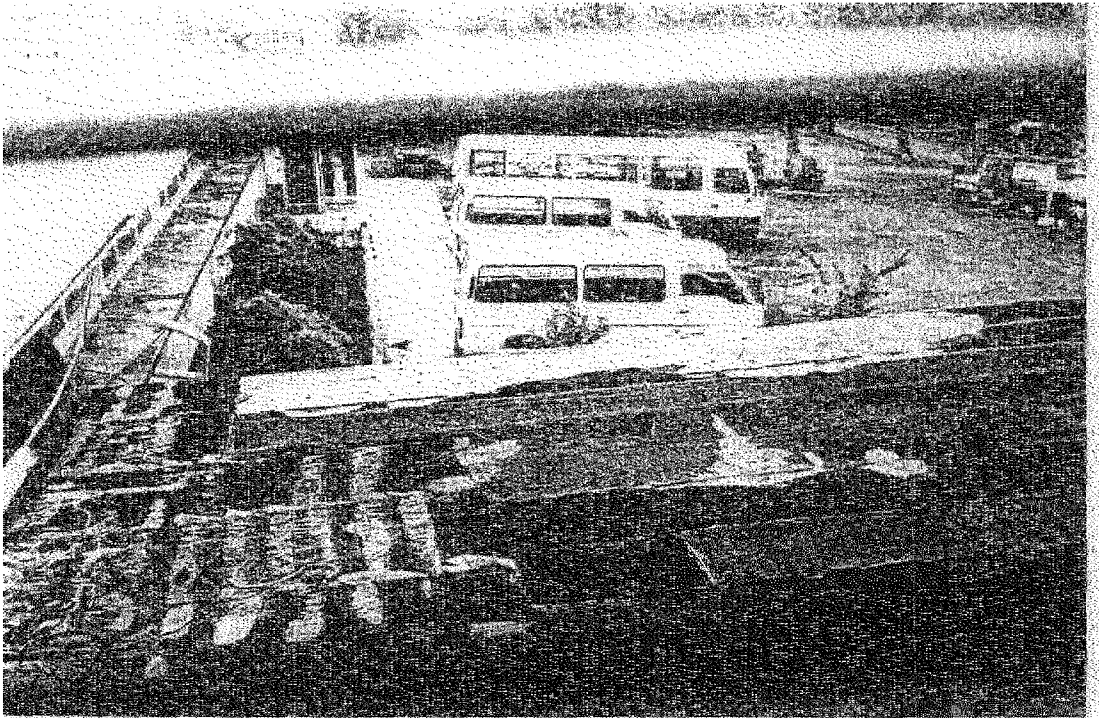
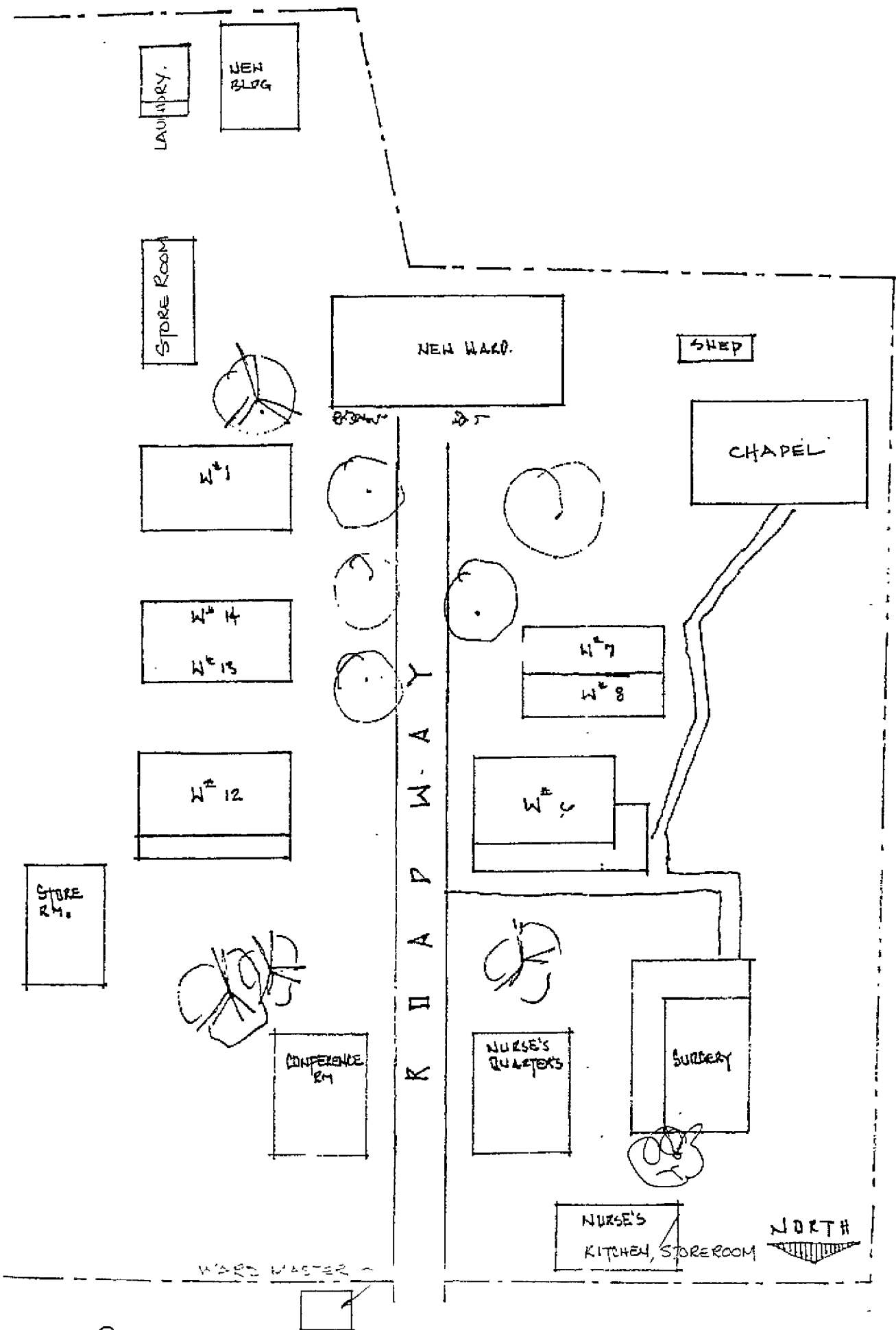


Photo HC-1: Partially-bonded roofing felt stripped from roof.



SITE PLAN OF FINNES INSTITUTE ANTIGUA

FIENNES INSTITUTE

Fiennes Institute is a facility for the physically and mentally challenged. The facility consists of a number of predominantly timber-framed, single storey buildings arranged left and right of a central access roadway. A sketch (not to scale) of the site is shown on the previous page. At the far end of the site is an un-used chapel.

3.11 Nurses' Kitchen/Stores

3.11.1 Hurricane Damage

This building lost a section of its roof sheeting.

3.11.2 Inspection

The building was a masonry building with its roof in poor condition. The doors and windows were dilapidated. The stores section was in use but the kitchen was disused.

3.11.3 Repairs

1. Replace roof.
2. Rebuild doors.
3. Reconstruct kitchen worktop
4. Redecorate internally.

3.12 Nurses' Quarters

3.12.1 Hurricane Damage

Nurses' quarters is a timber building with a hipped roof. One half of the north hip had lost its sheeting.

3.12.2 Repairs

1. Replace sheeting.

3.13 Surgery

3.13.1 Hurricane Damage

This is a timber frame building with an open verandah on two sides. A casuarina tree had fallen onto the building.

3.13.2 Repairs

1. Remove the tree and cart away.
2. Repair damage to roof.

3.14 Conference Room

3.14.1 Hurricane Damage

This is a timber building with a small patio at the rear. The sheets to the rear patio roof and a small section of the main roof were missing. A number of 6" glass louvre blades were missing. The shutters to the windows were drooping.

3.14.2 Repairs

1. Re-build the patio roof and replace the sheets to the roof.
2. Replace the broken/missing louvre blades.
3. Re-build the shutters to the doors and windows.
4. Re-place the gutters.
5. Clench the existing ends of the nails that project through the ceiling board.

3.15 Ward Master Building

3.15.1 Description

This is a small timber building with a steep gable galvanised sheeted roof. There was a 12' x 22' room attached to the existing building.

3.15.2 Hurricane Damage

The 12' x 22' room was demolished and a few galvanised sheets on the juxtaposed building were damaged.

3.15.3 Repairs

1. Re-build the demolished building and repair the existing office building.

3.16 Wards 7 & 8

3.16.1 Hurricane Damage

This is a timber building with a shallow pitch galvanised roof. The eaves gutter at the rear of the building was missing.

3.16.2 Repairs

1. Replace gutter.

3.17 Chapel

3.17.1 Description

This is a masonry building with a pitted exposed concrete floor (photo F-C.1). The roof is a steep pitch timber roof with exposed trusses, close boarded ceiling and galvanised sheeting. There were signs of termite infestation. The windows are glass louvre with timber shutters. The doors are a double leaf, framed batten doors.

3.17.2 Hurricane Damage

The majority of the roof sheeting was blown off.

3.17.3 Repairs

1. Re-build roof.
2. Screed floor and tile.
3. Re-render walls internally and paint.
4. Re-build the windows and doors.
5. New electrical installation.

The estimated cost of repairs as described is US\$109,600.00. A summary is shown on the following page.