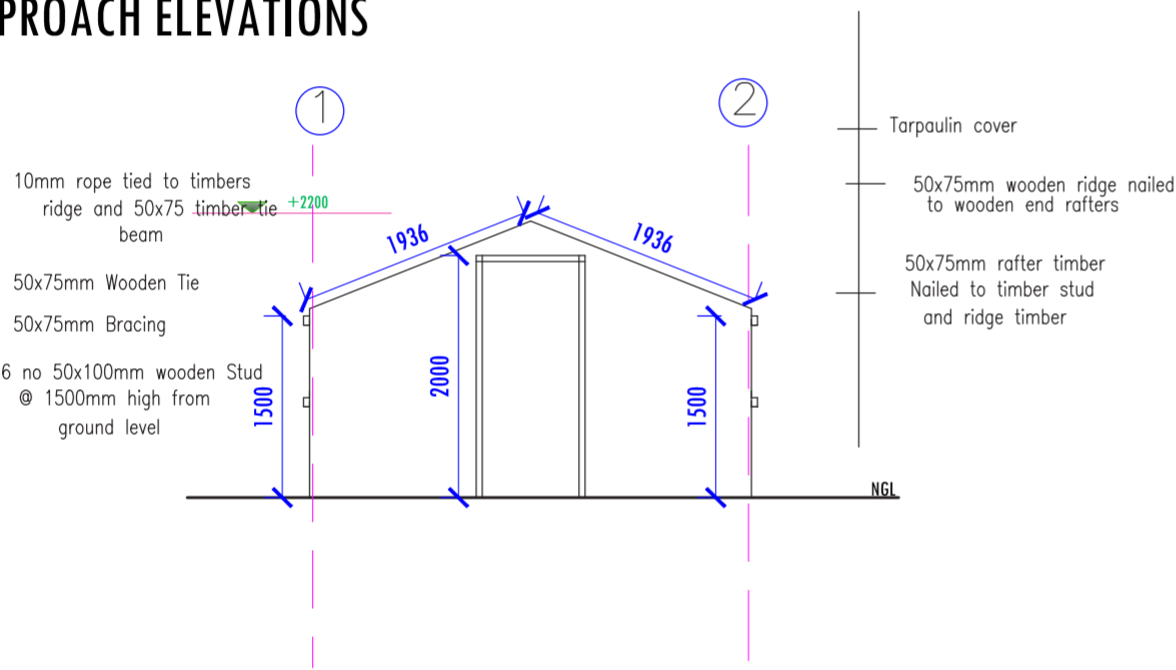


# EMERGENCY SHELTER \_ BAMA MODEL

The Bama shelter was agreed by the sector in mid-2016, when Bama was first accessed by the international response, to adequately cover shelter need at scale, and quickly.

- The emergency shelter is designed for **peri-urban and rural** areas outside of Maiduguri Metropolitan Area, with more **difficult and unstable access**, and associated higher logistics cost – but where **people are expected to remain** for some time.
- As it is relatively space efficient, it is appropriate for settlements with **limited space** and **large flux** in numbers.
- The emergency shelter consists of a robust but basic frame with requisite fixings and tools, covered by 3 tarpaulins.
- Construction should be overseen throughout the project, ideally **beneficiary or community driven construction**, with adequate training and monitoring. However, if time and conditions do not allow for the requisite level of community engagement and mobilisation, the shelter construction can and has been contractor driven.
- The emergency shelter has an intended life-span of **1 year** (though plastic sheeting may need more frequent replacement depending on conditions).
- The emergency shelter has a cost band of **USD 150 - 200**.

## APPROACH ELEVATIONS



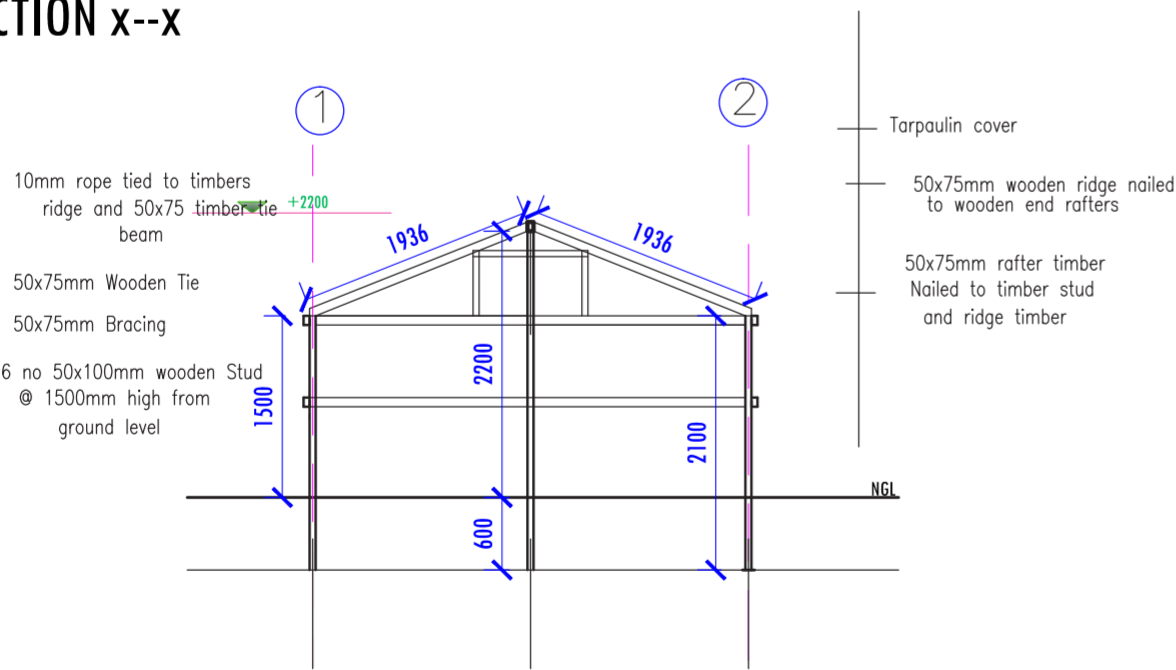
|           |                               |
|-----------|-------------------------------|
| PROJECT:  | PROPOSED SHELTER CONSTRUCTION |
| CLIENT:   | SAMA / NEMA                   |
| LOCATION: | BORNO STATE LOCAL GOV'T AREAS |
| FILE NO:  | DATE: OCT 2016                |



|              |              |
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| DESIGNED BY: |              |
| CHECKED BY:  |              |
| DATE:        | OCTOBER 2016 |
| SCALE:       | NTS          |
| REVIEW NO:   |              |

| No.   | Description  | Unit   | Quantity | Estimated Cost (NGN) |                  | Estimated Cost (USD) |                  |
|-------|--|--------|----------|----------------------|------------------|----------------------|------------------|
|       |  |        |          | Unit Cost (NGN)      | Total Cost (NGN) | Unit Cost (USD)      | Total Cost (USD) |
| 1     | Platic Sheetng (4m x 5m) with holes on 4 sides at 1m intervals aluminium reinforced, labeled with IOM Logo | Pcs    | 3.05     | 6,100.00             | 18,605.00        | 19.37                | 59.07            |
| 2     | Obeche Wooden poles, 2x4 inches - 280 cm length  | Pcs    | 2.00     | 600.00               | 1,200.00         | 1.90                 | 3.81             |
| 3     | Wooden poles, 2x4 inches - 210 cm length   | Pcs    | 6.00     | 600.00               | 3,600.00         | 1.90                 | 11.43            |
| 4     | Wooden poles, 2x3 inches - 250 cm length   | Pcs    | 4.00     | 400.00               | 1,600.00         | 1.27                 | 5.08             |
| 5     | Wooden poles, 2x3 inches - 250 cm length   | Pcs    | 4.00     | 400.00               | 1,600.00         | 1.27                 | 5.08             |
| 6     | Wooden poles, 2x3 inches - 180 cm length   | Pcs    | 4.00     | 400.00               | 1,600.00         | 1.27                 | 5.08             |
| 7     | Wooden poles, 2x3 inches - 240 cm length   | Pcs    | 2.00     | 400.00               | 800.00           | 1.27                 | 2.54             |
| 8     | Wooden poles, 2x3 inches - 220 cm length   | Pcs    | 10.00    | 400.00               | 4,000.00         | 1.27                 | 12.70            |
| 9     | Wooden poles, 2x4 inches - 190 cm length   | Pcs    | 2.00     | 600.00               | 1,200.00         | 1.90                 | 3.81             |
| 10    | Wooden poles, 2x4 inches - 100 cm length   | Pcs    | 3.00     | 140.00               | 420.00           | 0.44                 | 1.33             |
| 11    | Wooden poles, 2x4 inches - 260 cm length   | Pcs    | 2.00     | 600.00               | 1,200.00         | 1.90                 | 3.81             |
| 12    | Wooden poles, 2x4 inches - 50 cm length  | Pcs    | 18.00    | 0.00                 | 0.00             | 0.00                 | 0.00             |
| 13    | Wooden poles, 2x3 inches - 135 cm length   | Pcs    | 2.00     | 140.00               | 280.00           | 0.44                 | 0.89             |
| 14    | Nails - 3 inch   | Lbs    | 2.00     | 260.00               | 520.00           | 0.83                 | 1.65             |
| 15    | Cap nails  | Packet | 1.00     | 1,750.00             | 1,750.00         | 5.56                 | 5.56             |
| 16    | Rope 10 mm th. - 30m length  | Pcs    | 1.00     | 1,600.00             | 1,600.00         | 5.08                 | 5.08             |
| 17    | Hinges   | Pair   | 3.00     | 220.00               | 660.00           | 0.70                 | 2.10             |
| 18    | Claw hammer  | Pcs    | 1.00     | 1,100.00             | 1,100.00         | 3.49                 | 3.49             |
| 19    | Hand saw   | Pcs    | 1.00     | 1,000.00             | 1,000.00         | 3.17                 | 3.17             |
| 20    | Showel   | Pcs    | 1.00     | 1,500.00             | 1,500.00         | 4.76                 | 4.76             |
| 21    | PVC Pail 12  | Pcs    | 1.00     | 600.00               | 600.00           | 1.90                 | 1.90             |
| 22    | Packing bags   | Pcs    | 1.00     | 400.00               | 400.00           | 1.27                 | 1.27             |
| 24    | Labour   | LS     | 1.00     | 3,500.00             | 3,500.00         | 11.11                | 11.11            |
| 25    | Transport  | LS     | 1.00     | 1,000.00             | 1,000.00         | 3.17                 | 3.17             |
| Total |  |        |          |                      | 49,735.00        |                      | 157.89           |

## SECTION x--x

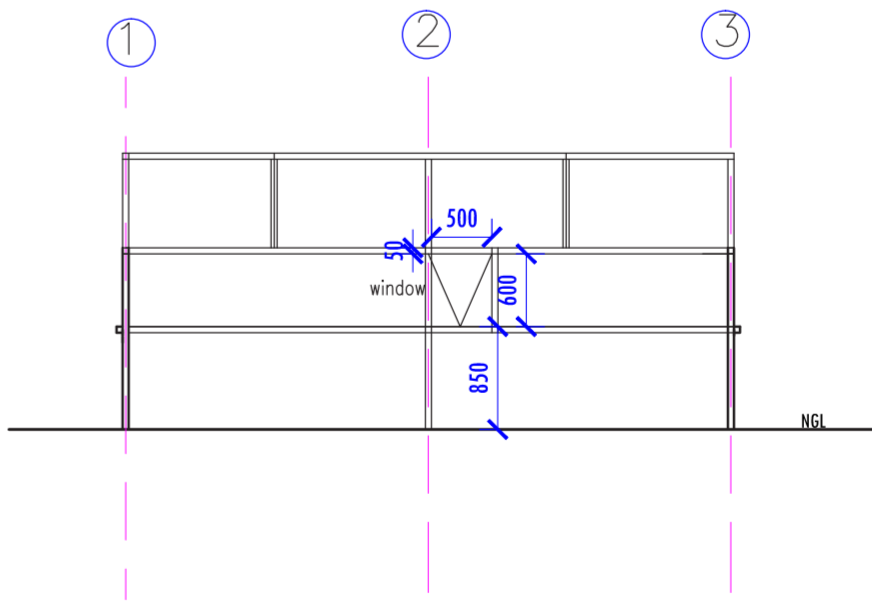


|           |                               |
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| REVIEW NO:   |              |

## SECTION G--G



|           |                               |
|-----------|-------------------------------|
| PROJECT:  | PROPOSED SHELTER CONSTRUCTION |
| CLIENT:   | SAMA / NEMA                   |
| LOCATION: | BORNO STATE LOCAL GOV'T AREAS |
| FILE NO:  | DATE: OCTOBER 2016            |



|              |                              |
|--------------|------------------------------|
| COORDINATES: | N11.39'47.90<br>E13.23'53.17 |
| DESIGNED BY: |                              |
| CHECKED BY:  |                              |
| DATE:        | OCTOBER 2016                 |
| SCALE:       | NTS                          |
| REVIEW NO:   |                              |

