

## Drawing Index

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## Notes

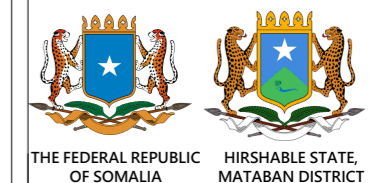
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- All reinforced concrete works to be done according to structural detail drawings

No:	Date:	Description:
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Client:



Project Title:

**PROPOSED OF CONSTRUCTION  
MATABAN MAIN MARKET**

Drawing Title:

**Drawing Index**

SCALE: AS SHOWN

DATE: MARCH 2019

DESIGN & DRAWN BY: **ENG. M.Awil**

REVIEWED BY:

Sheet No.



## Notes

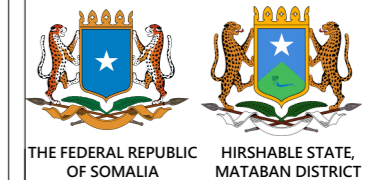
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Client:



Project Title:

**PROPOSED OF CONSTRUCTION  
MATABAN MAIN MARKET.**

Drawing Title:

**Site Location.**

SCALE: AS SHOWN

DATE: MARCH 2019

DESIGN & DRAWN BY: **ENG. M.Awil**

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## Notes

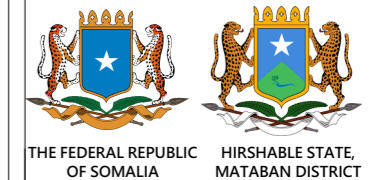
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Project Title:

**PROPOSED OF CONSTRUCTION  
MATABAN MAIN MARKET.**

Drawing Title:

**Existing Pictures**

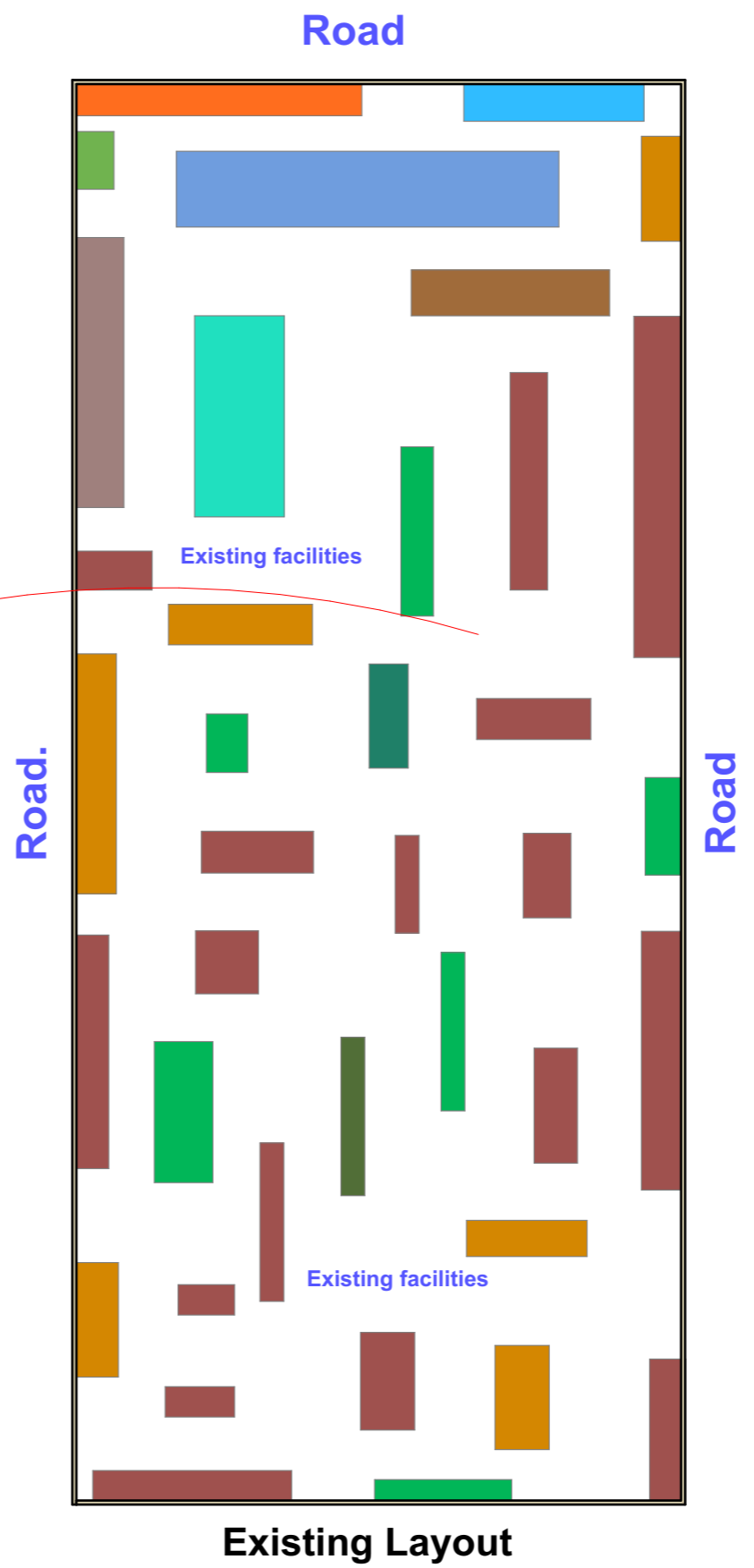
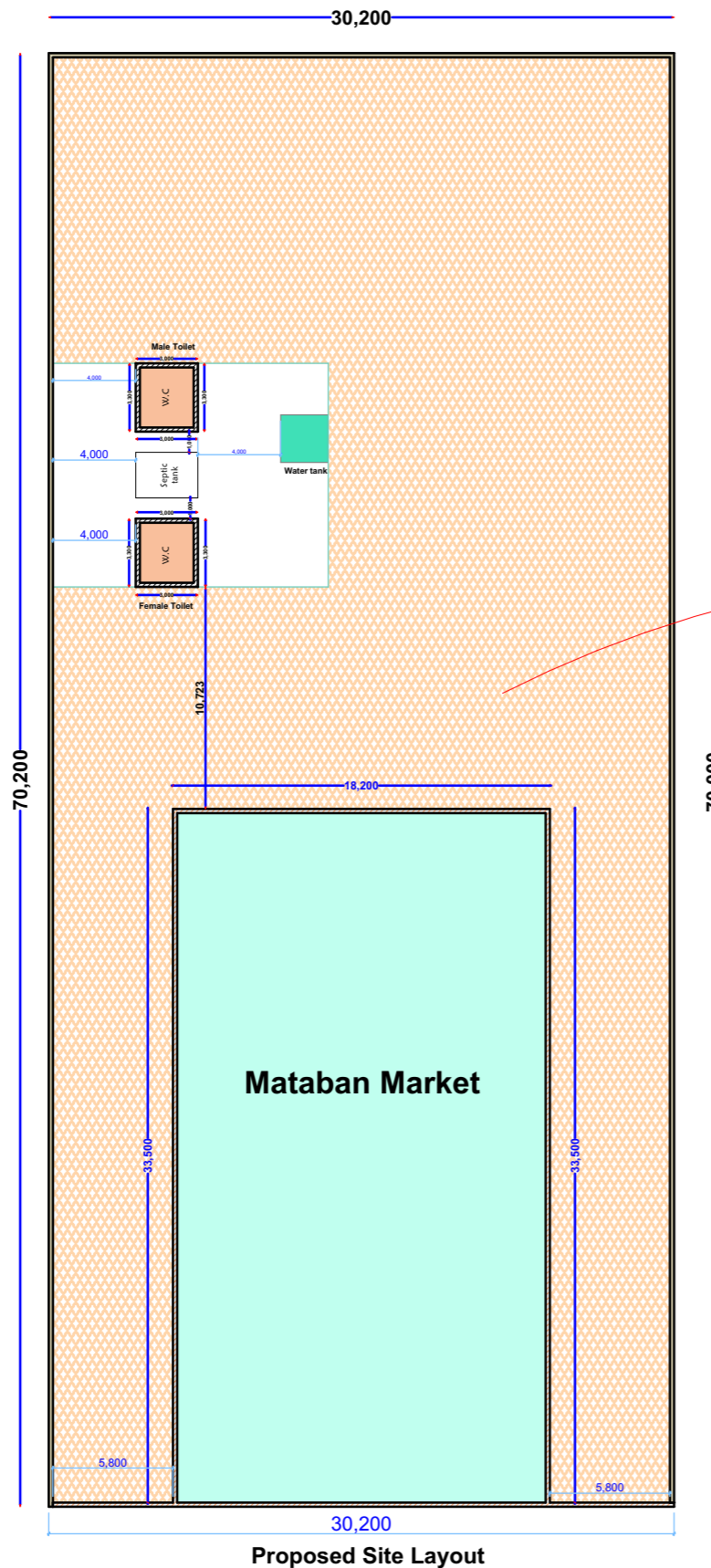
SCALE: AS SHOWN

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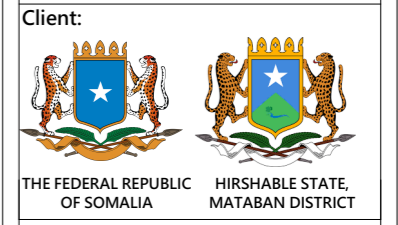
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REVISION		



Project Title:  
**PROPOSED OF CONSTRUCTION  
MATABAN MAIN MARKET.**

Drawing Title:  
**Site Layout**

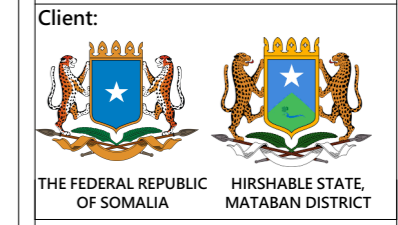
SCALE: AS SHOWN  
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 DESIGN & DRAWN BY: **ENG. M.Awil**  
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A3

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MATABAN MAIN MARKET.**

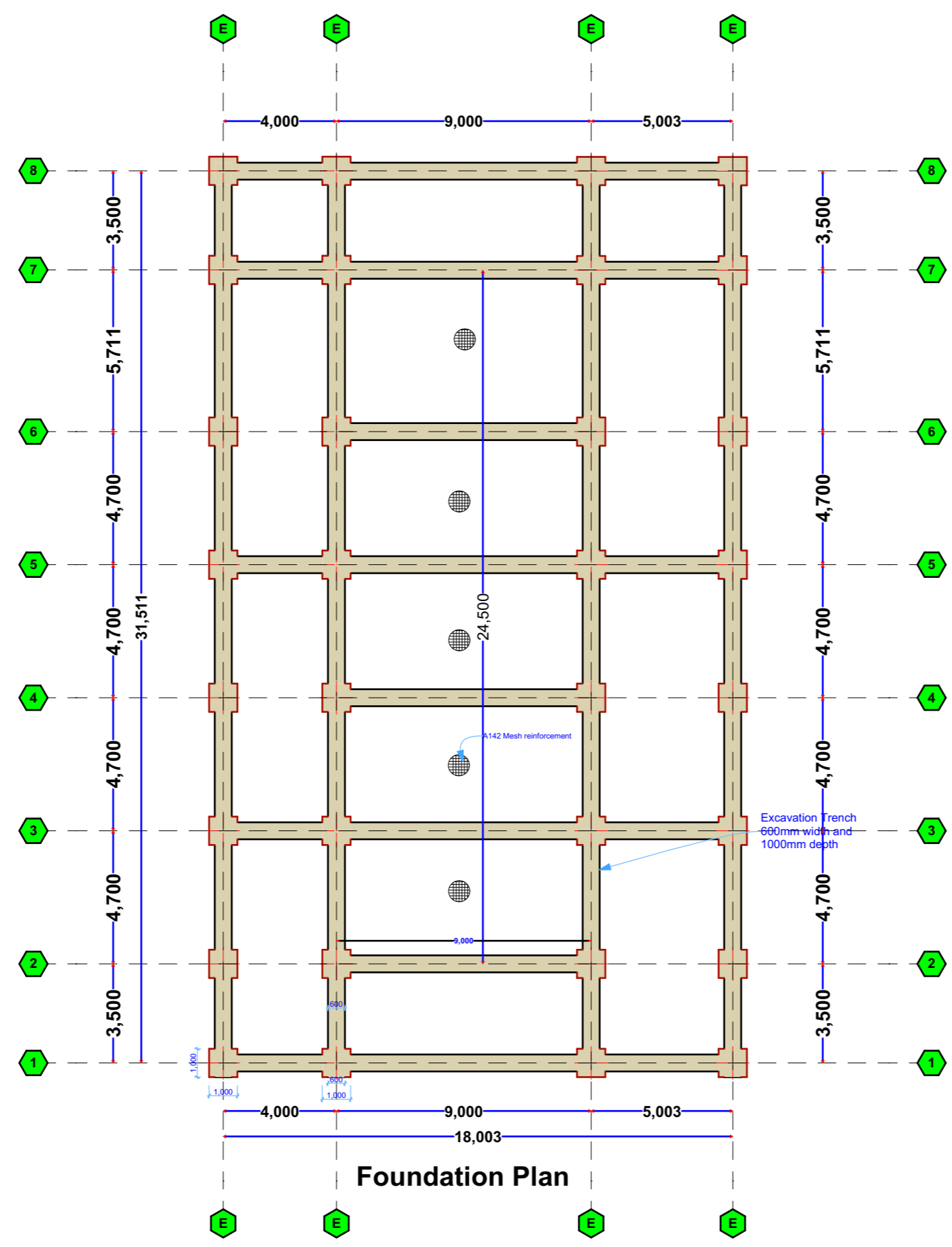
Drawing Title:  
**Foundation Plan**

SCALE: AS SHOWN  
DATE: MARCH 2019  
DESIGN & DRAWN BY: **ENG. M.Awil**

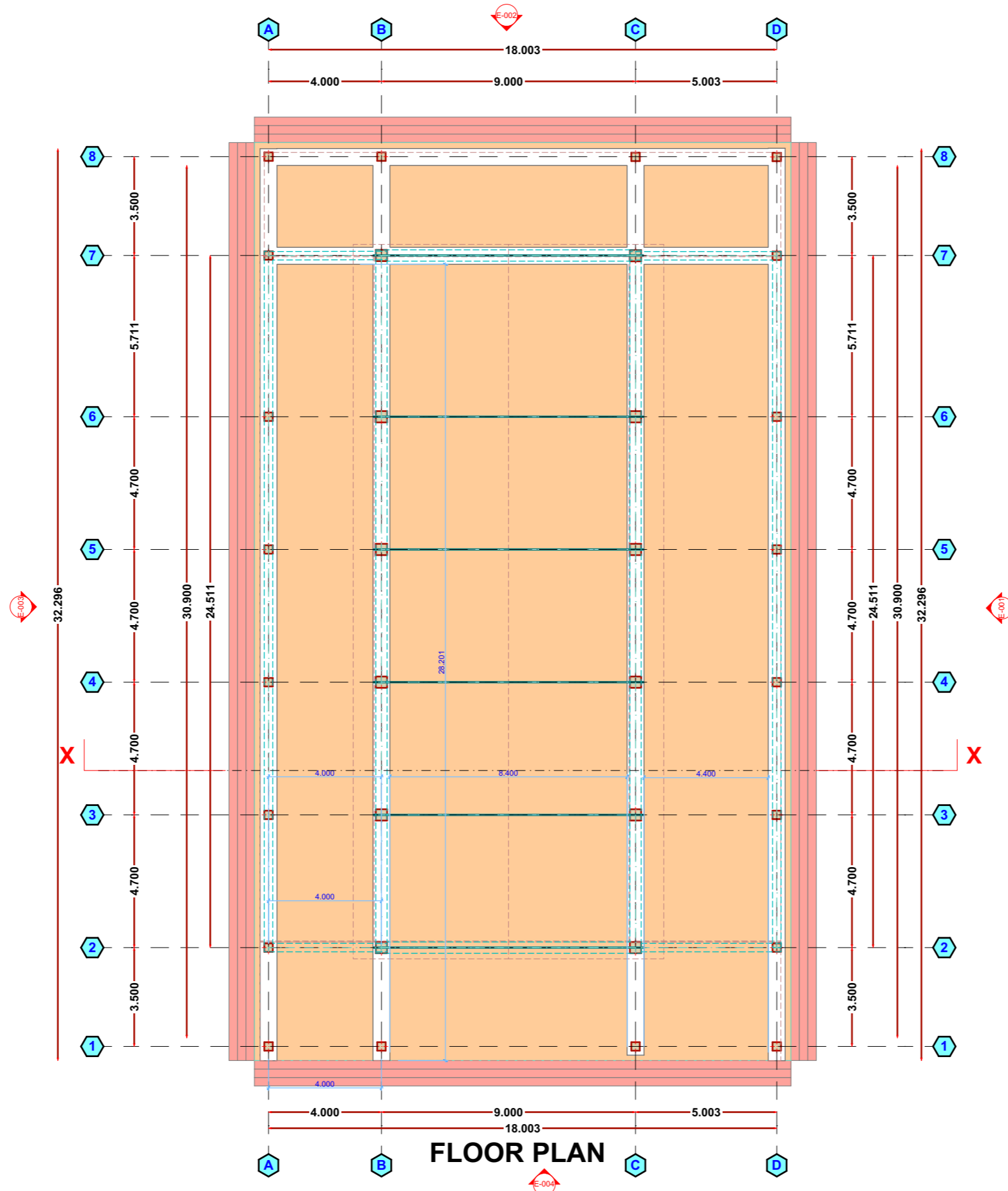
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**Foundation Plan**



**FLOOR PLAN**

## Notes

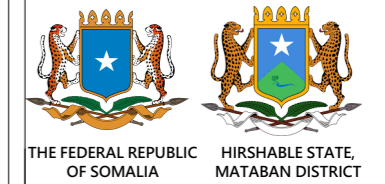
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Client:



Project Title:

**PROPOSED OF CONSTRUCTION  
MATABAN MAIN MARKET.**

Drawing Title:

**Floor Plan**

SCALE: AS SHOWN

DATE: MARCH 2019

DESIGN & DRAWN BY: **ENG. M.Awil**

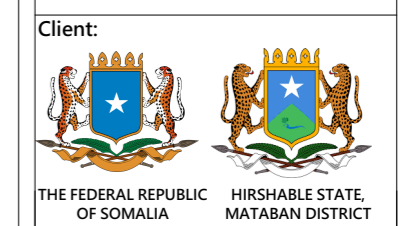
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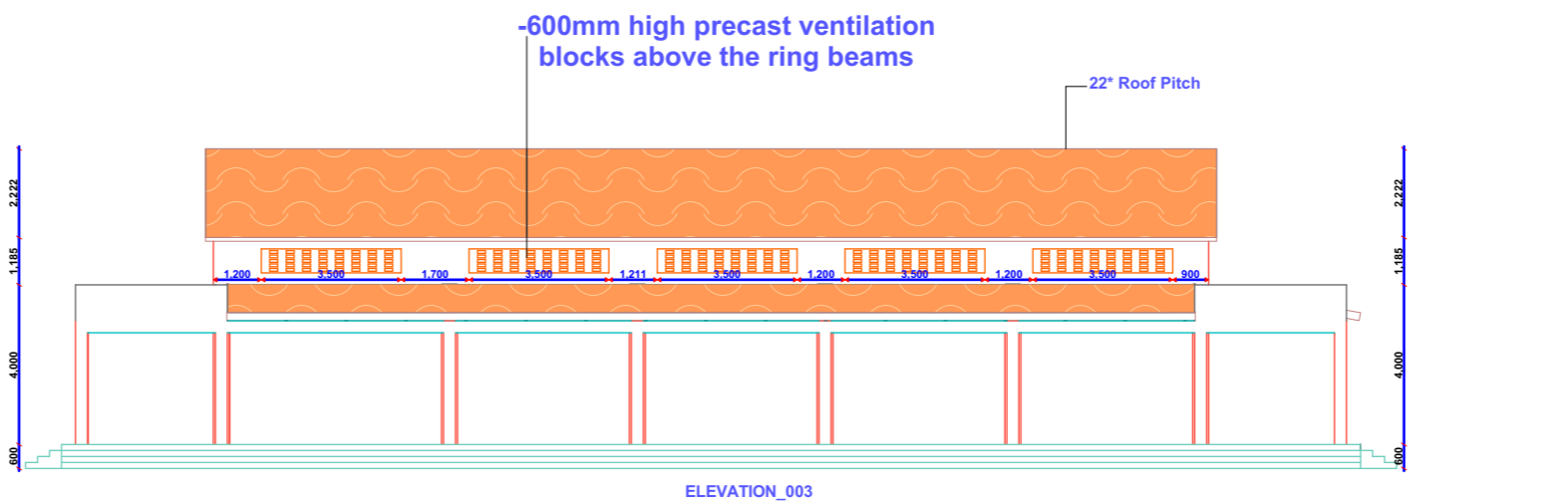
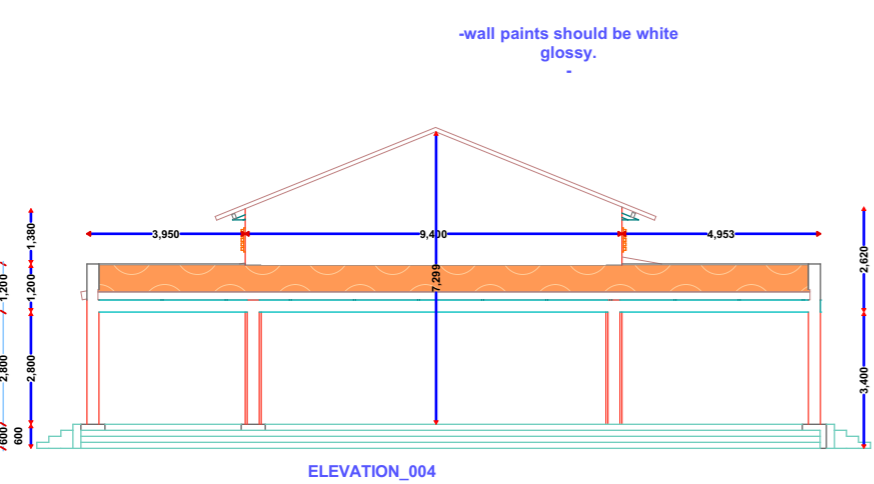
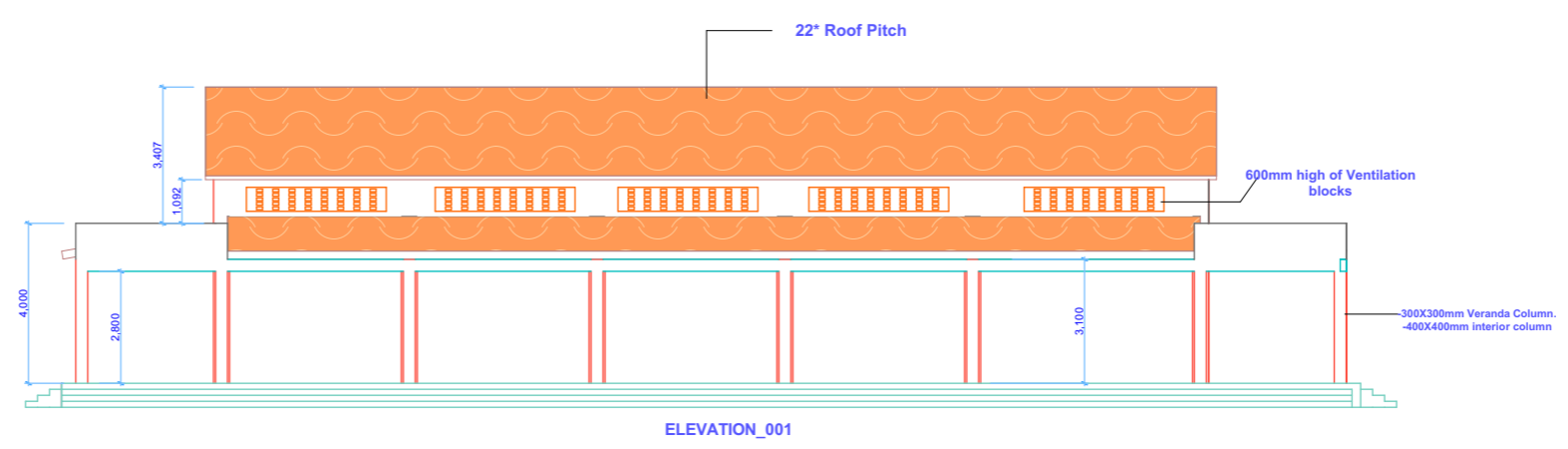
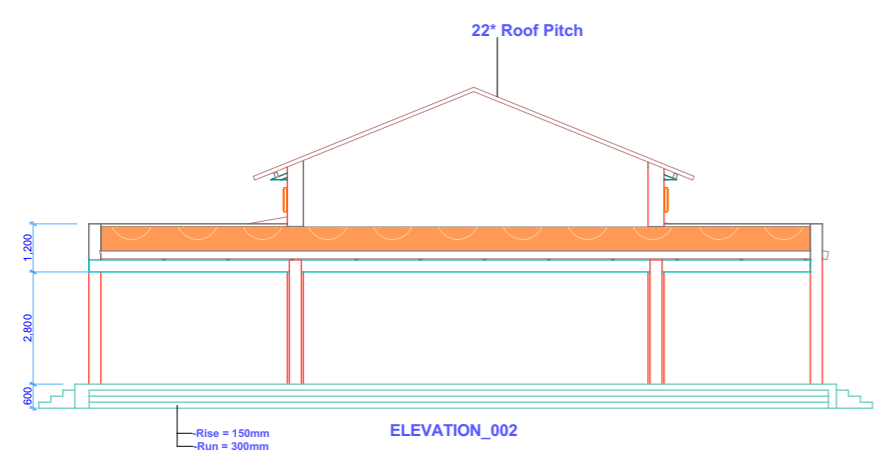


Project Title:  
**PROPOSED OF CONSTRUCTION  
 MATABAN MAIN MARKET.**

Drawing Title:  
**Elevation View**

SCALE: AS SHOWN  
 DATE: MARCH 2019  
 DESIGN & DRAWN BY: **ENG. M.Awil**  
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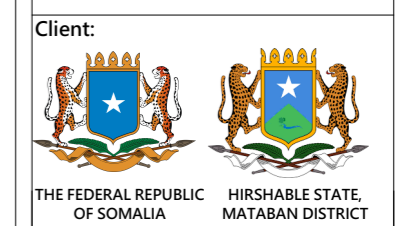




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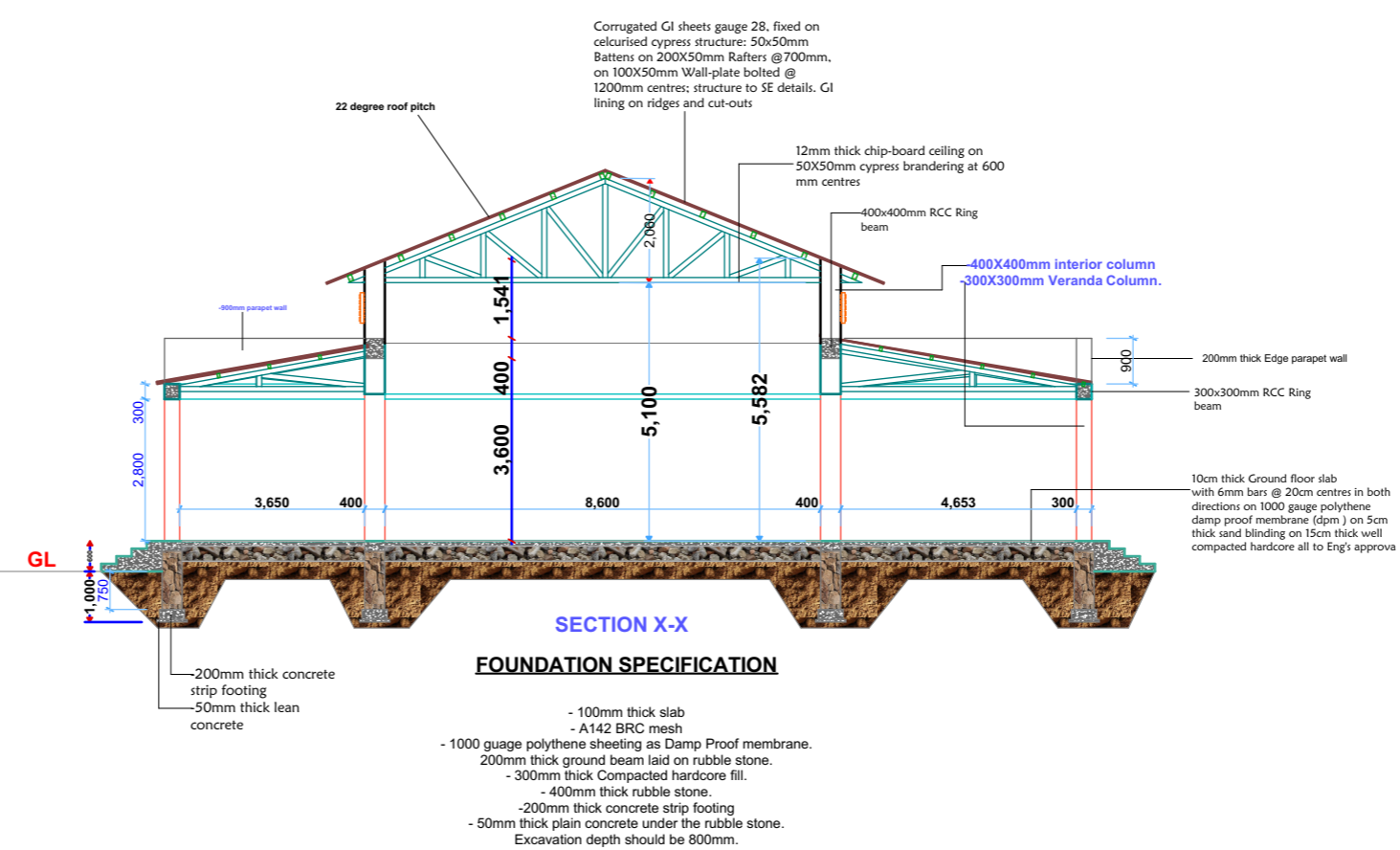
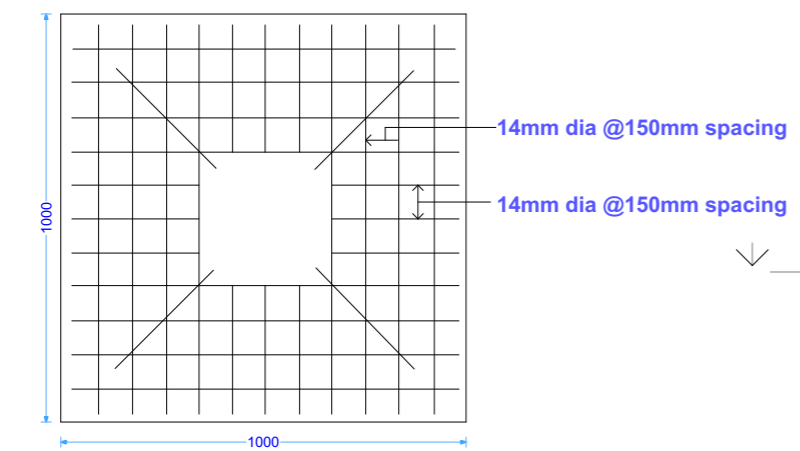
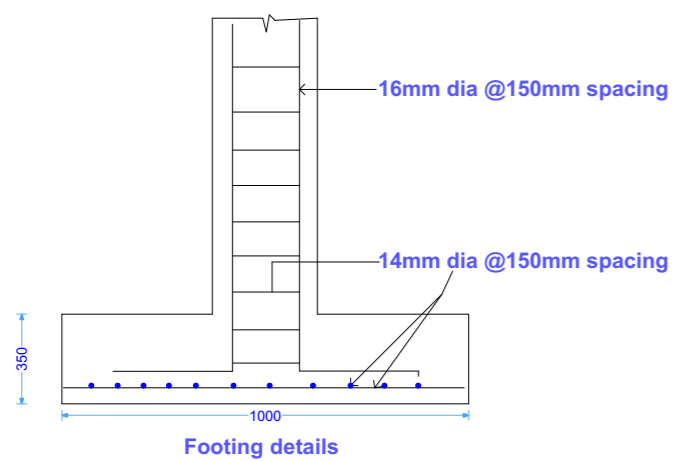


Project Title:  
**PROPOSED OF CONSTRUCTION  
MATABAN MAIN MARKET.**

Drawing Title:  
**Section View**

SCALE: AS SHOWN  
DATE: MARCH 2019  
DESIGN & DRAWN BY: **ENG. M.Awil**  
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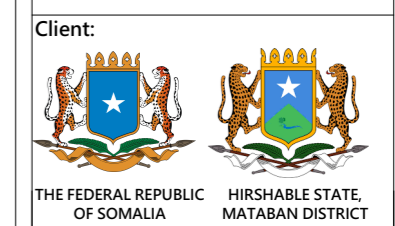
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**A3**



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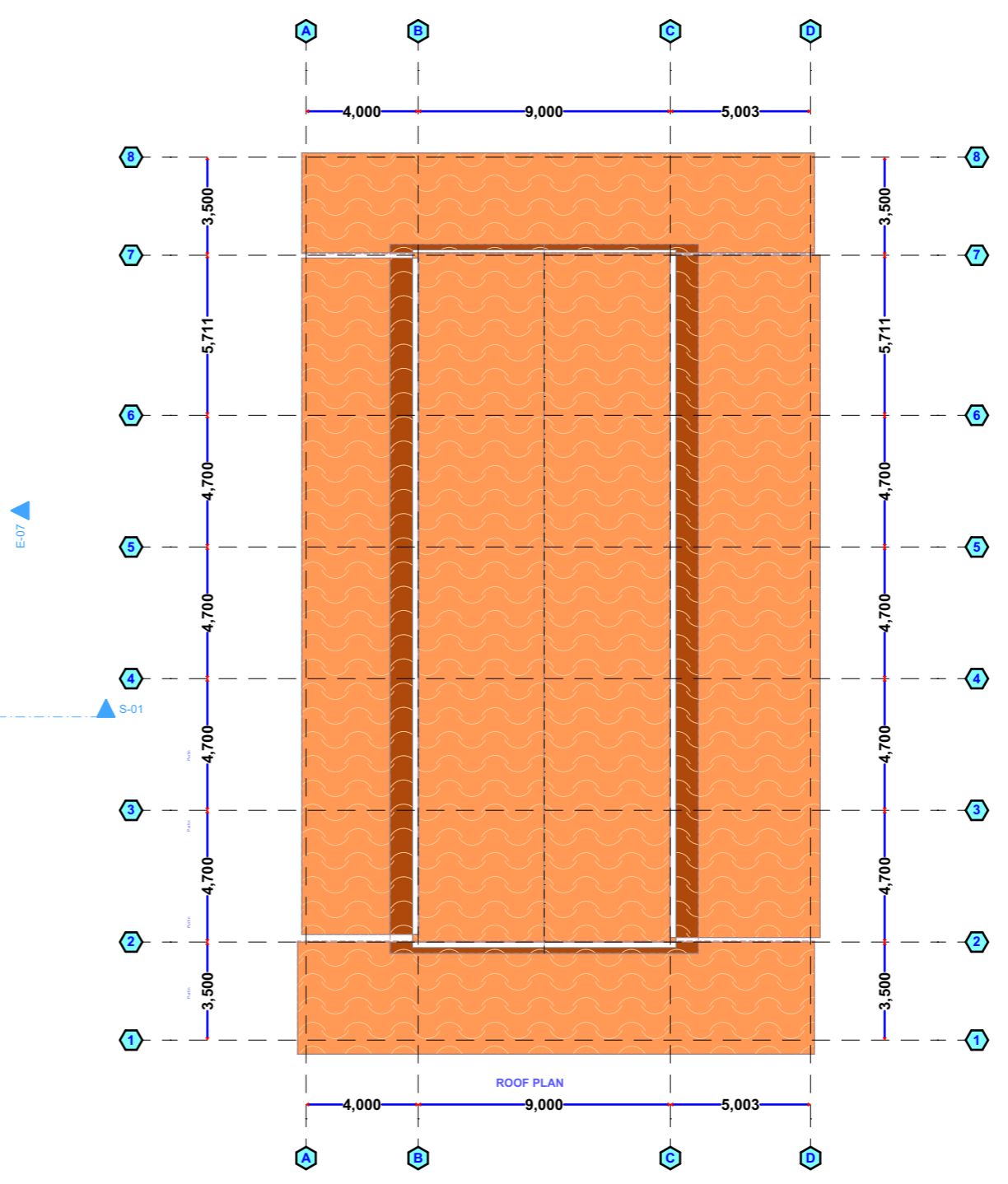
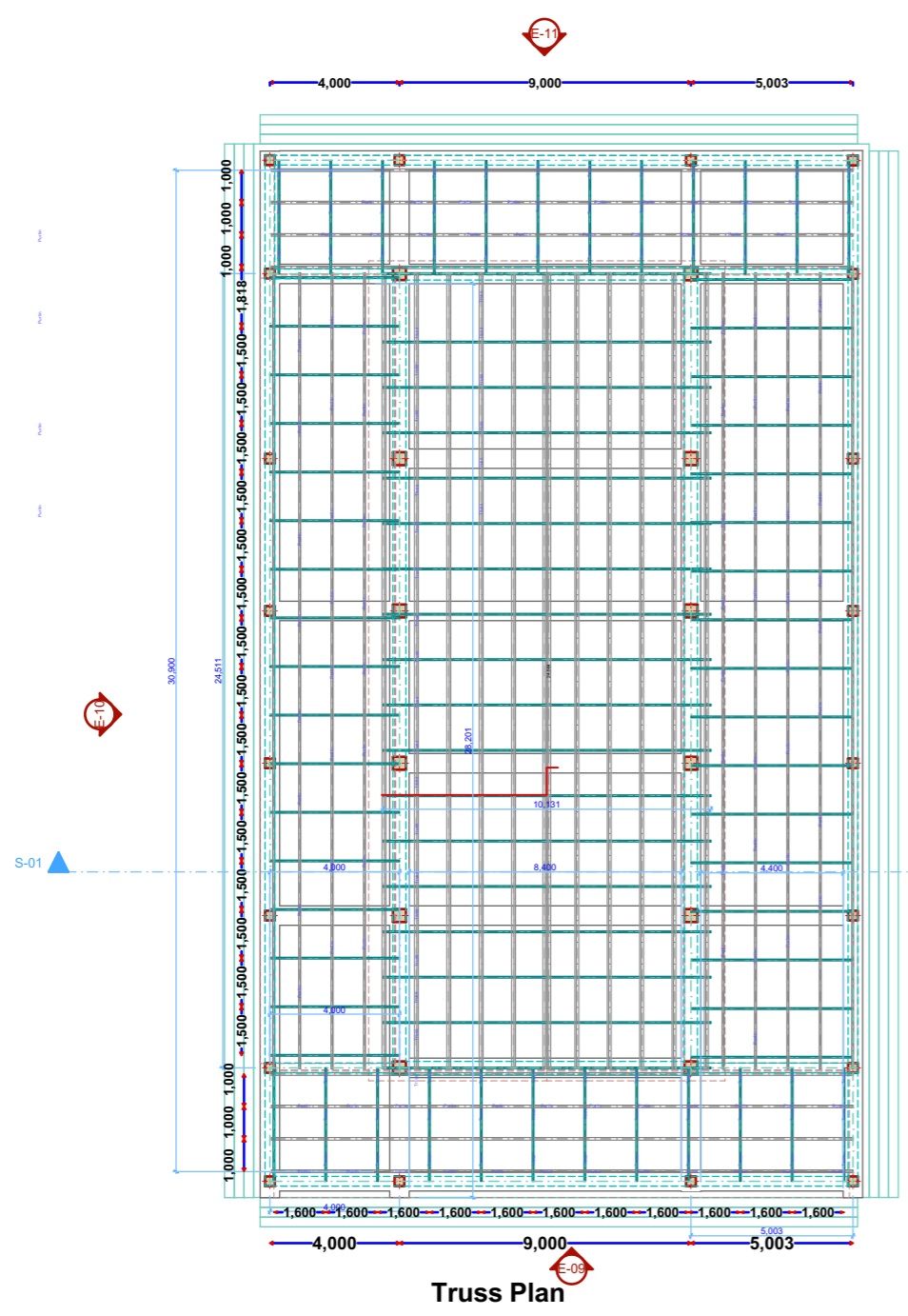


Project Title:  
**PROPOSED OF CONSTRUCTION  
MATUBAN MAIN MARKET.**

Drawing Title:  
**Roof and Truss Plan**

SCALE: AS SHOWN  
DATE: MARCH 2019  
DESIGN & DRAWN BY: **ENG. M.Awil**  
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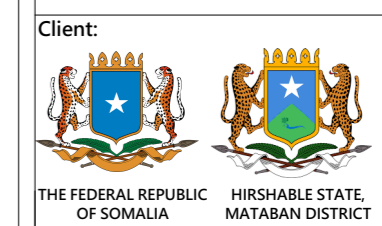
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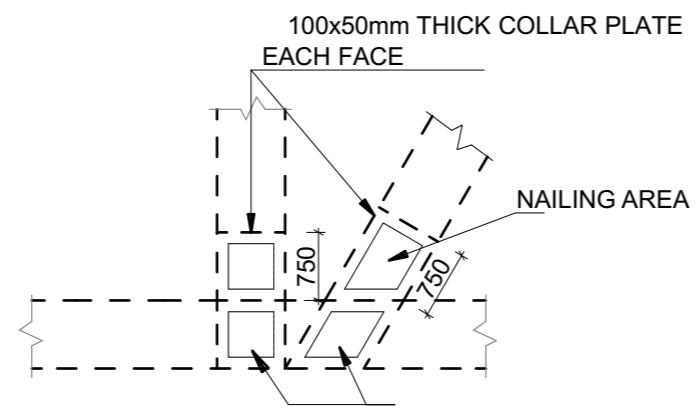


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**PROPOSED OF CONSTRUCTION MATABAN MAIN MARKET.**

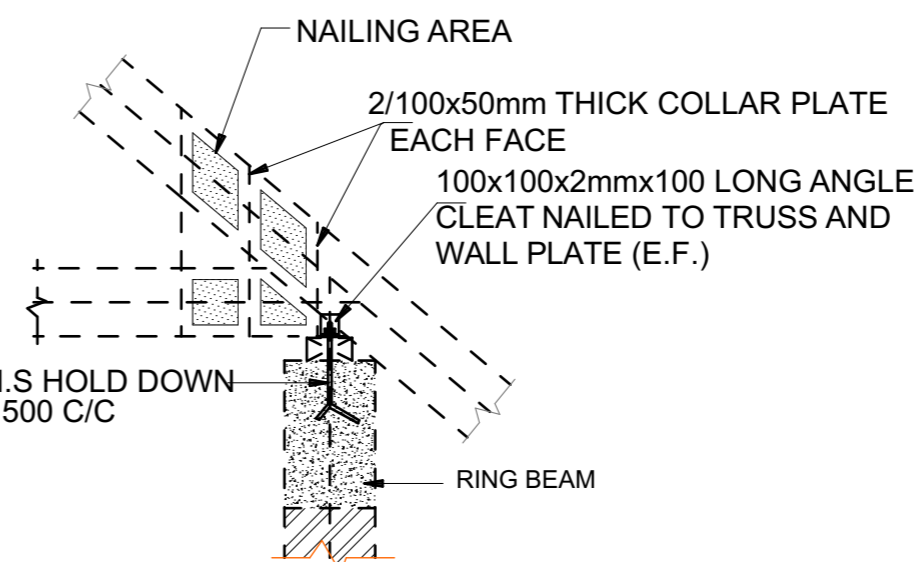
Drawing Title:  
**Truss details**

SCALE: AS SHOWN  
DATE: MARCH 2019  
DESIGN & DRAWN BY: **ENG. M.Awil**  
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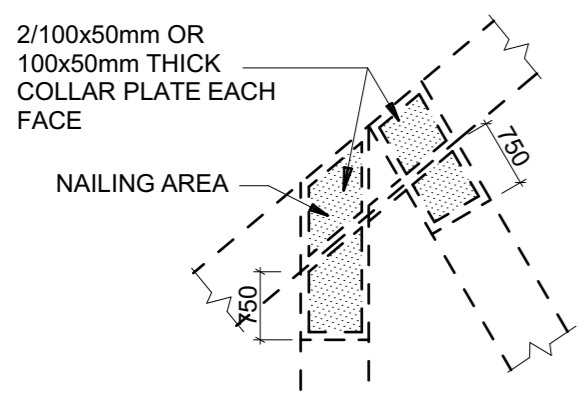
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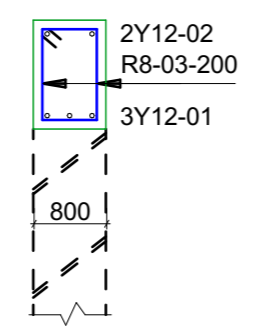
**DETAIL 'C'**  
(SCALE 1:20)



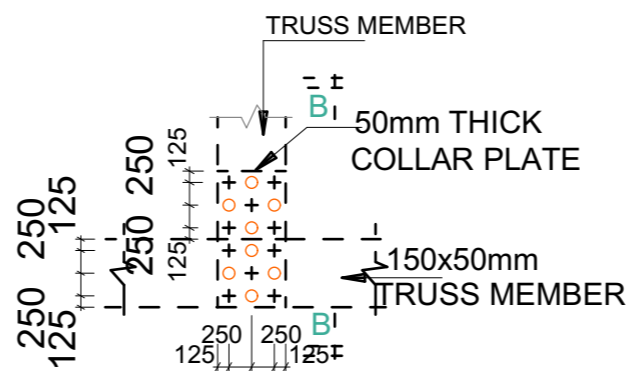
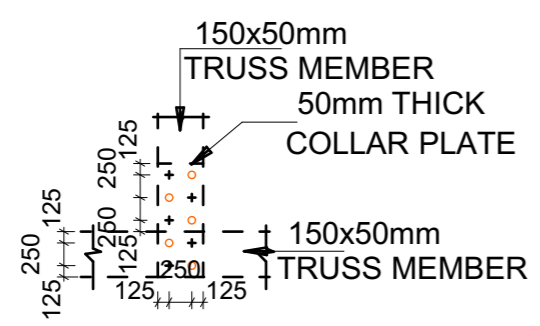
**DETAIL 'B'**  
(SCALE 1:20)



**DETAIL 'A'**  
(SCALE 1:20)



**300x200 R-Beam**  
(SCALE 1:25)

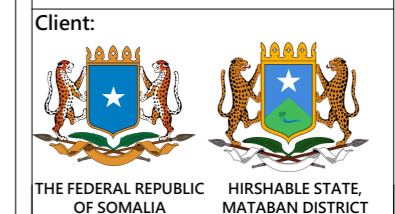


**TYPICAL NAILING PATTERN**  
(SCALE 1:20)

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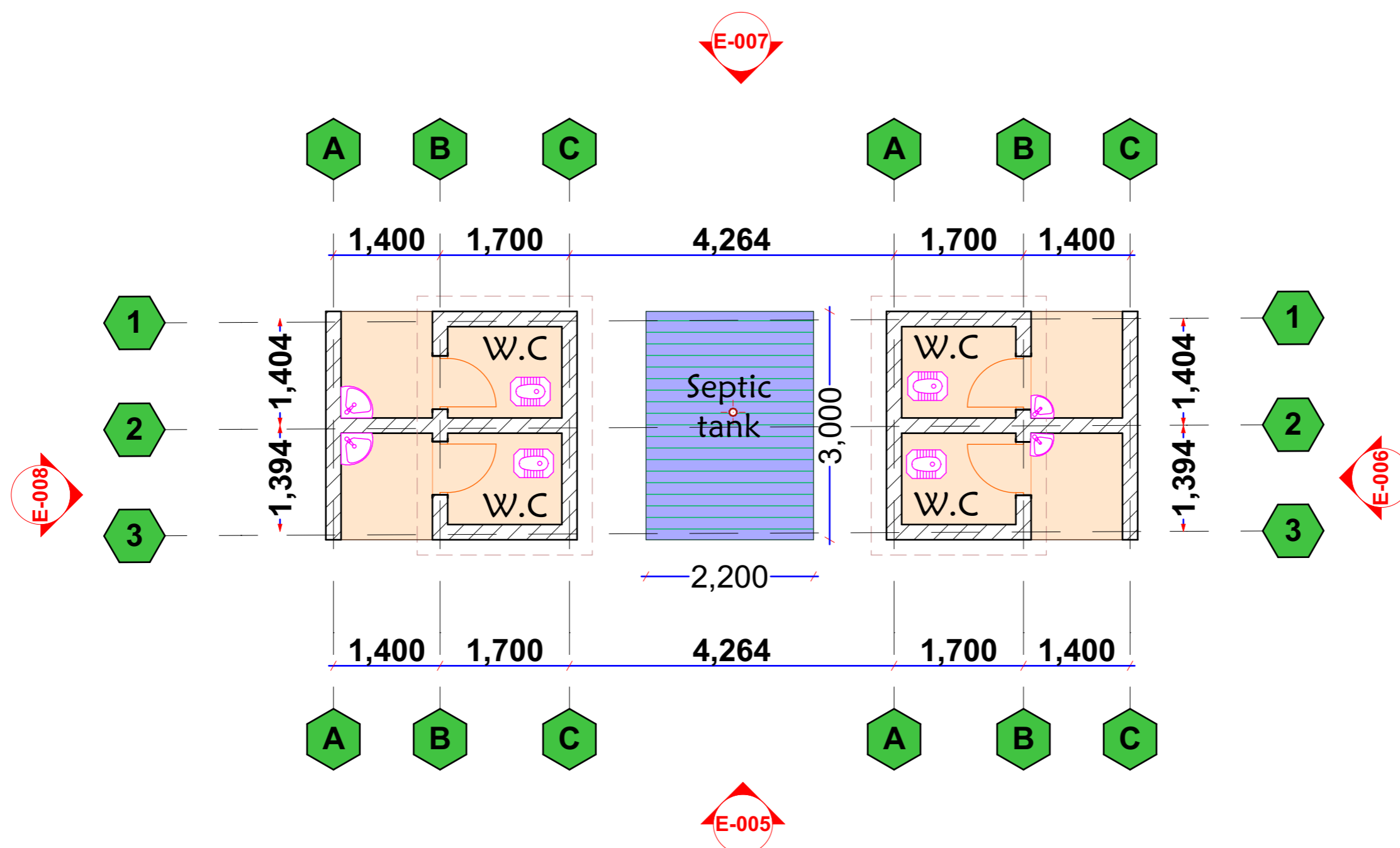


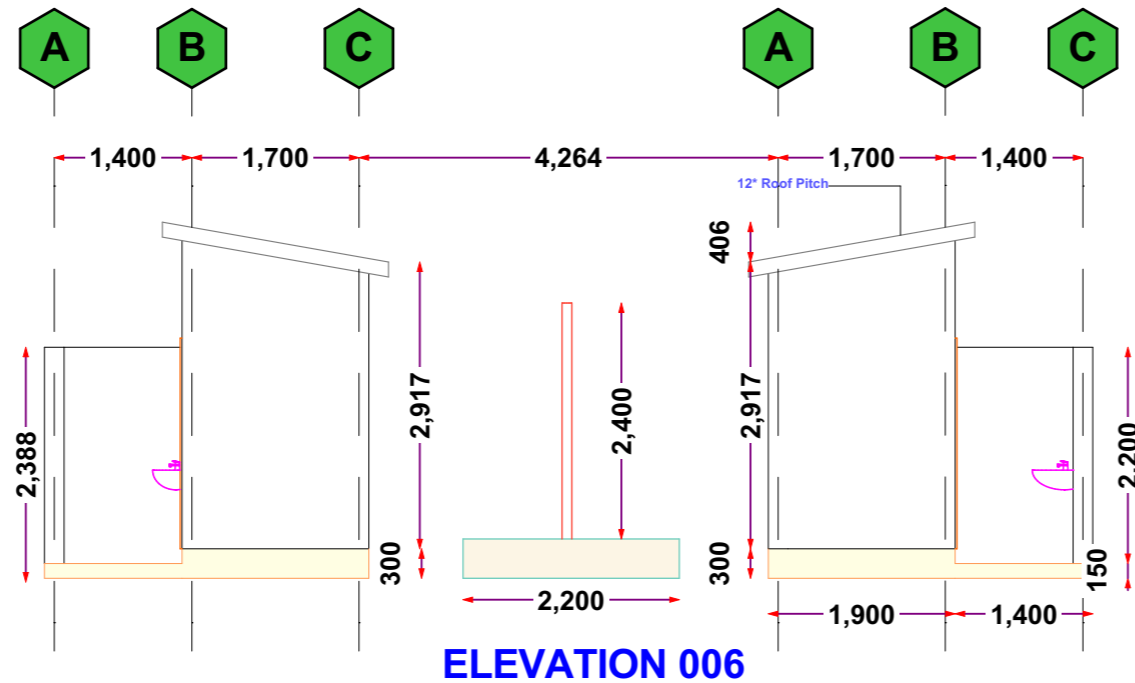
Project Title:  
**PROPOSED OF CONSTRUCTION  
MATABAN MAIN MARKET.**

Drawing Title:  
**Toilet Floor Plan.**

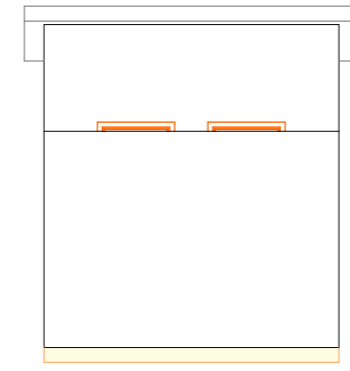
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DATE: MARCH 2019  
DESIGN & DRAWN BY: **ENG. M.Awil**  
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A3





**ELEVATION 006**

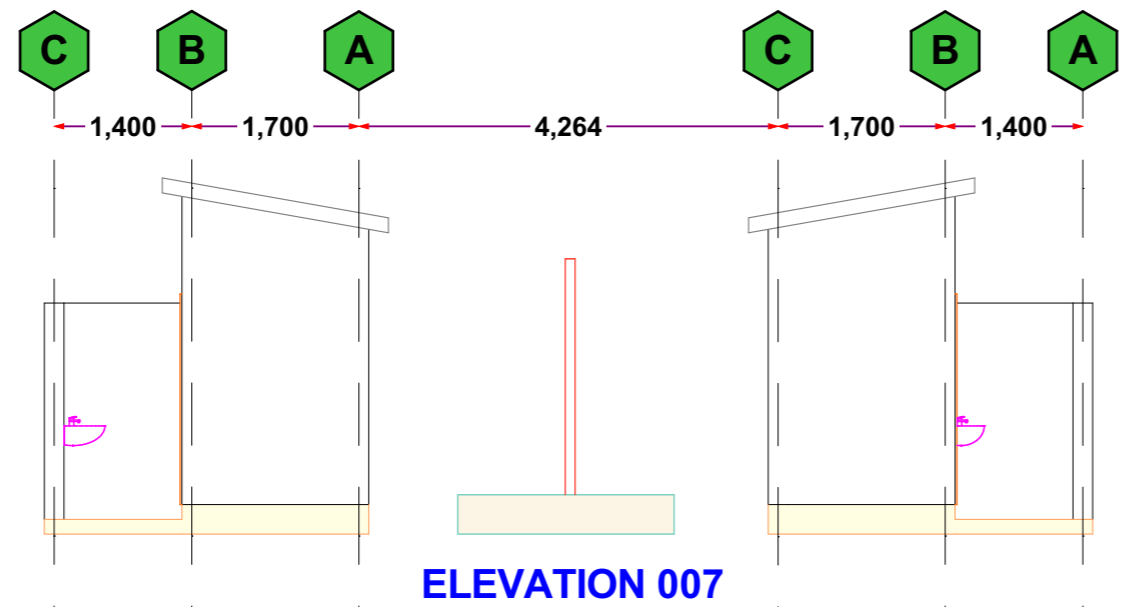


**ELEVATION 006**

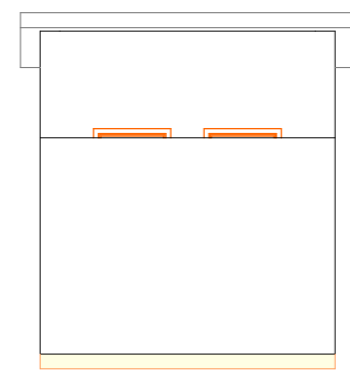


**Septic Tank Specification.**

- the volume of septic tank should be 20m<sup>3</sup>.
- the walls should be stone and Rcc columns.
- Bed floor should be concrete slab.



**ELEVATION 007**

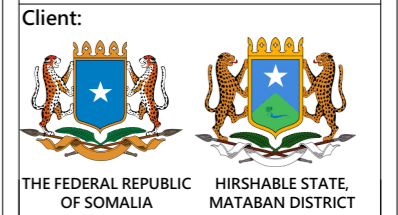


**ELEVATION 008**

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Project Title:  
**PROPOSED OF CONSTRUCTION MATABAN MAIN MARKET.**

Drawing Title:  
**Toilet Elavation View**

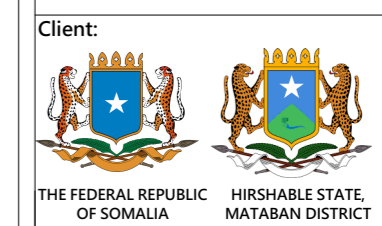
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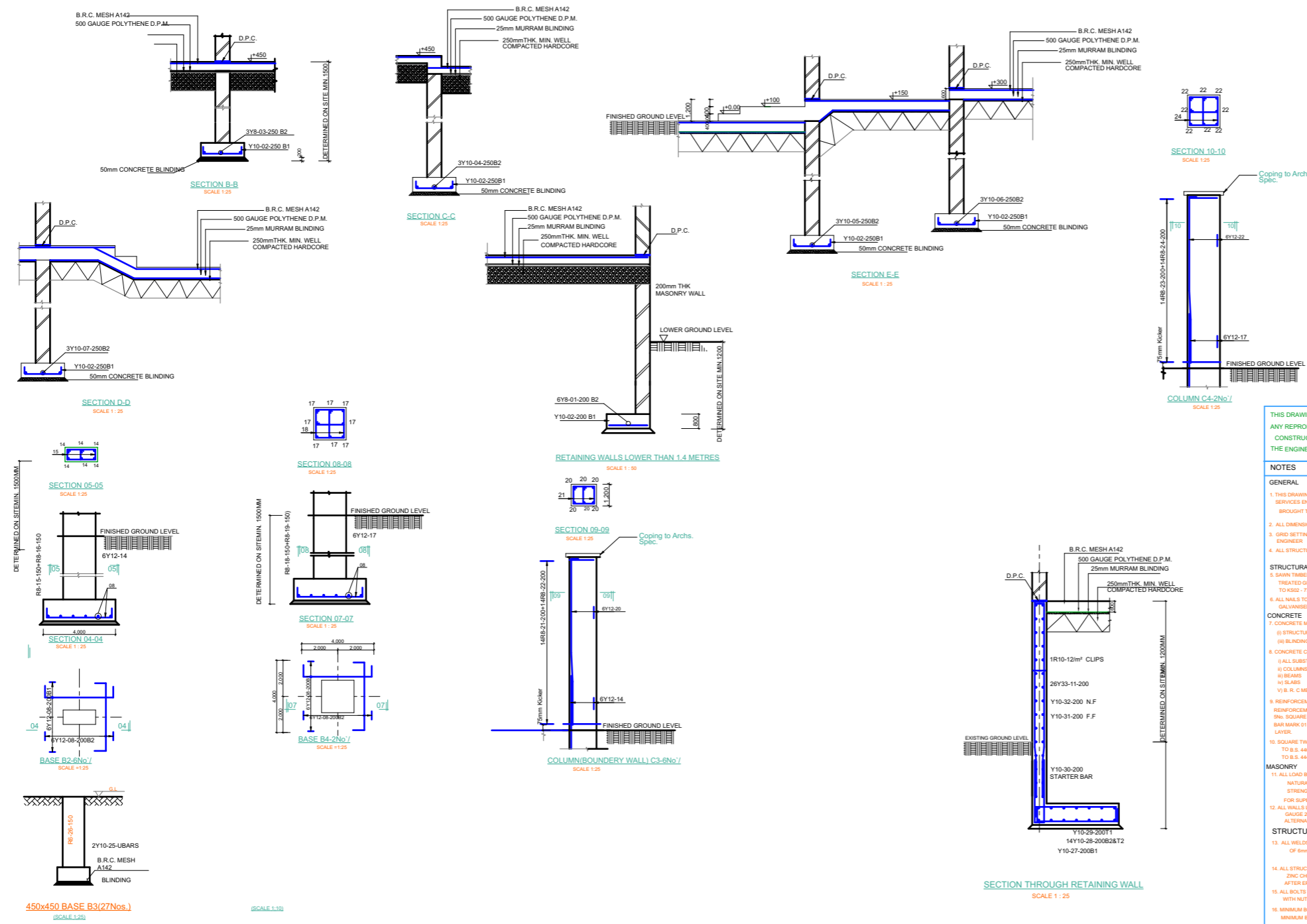


Project Title:  
**PROPOSED OF CONSTRUCTION  
MATABAN MAIN MARKET.**

Drawing Title:  
**Details Structural**

SCALE: AS SHOWN  
DATE: MARCH 2019  
DESIGN & DRAWN BY: **ENG. M.Awil**  
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**NOTES**

**GENERAL**

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- ALL DIMENSIONS IN MM
- GRID SETTING OUT DIMENSIONS TO BE CONFIRMED BY ENGINEER
- ALL STRUCTURAL WORKS TO APPROVAL OF ENGINEER

**STRUCTURAL TIMBER**

- SAWN TIMBER TO BE WELL SEASONED, PRESERVATIVE TREATED GENERAL STRUCTURAL (GS) GRADE CYPRESS TO K550 - 711 1989
- ALL NAILS TO BE 3.4mm $\phi$  x 4" LONG CUT FROM GALVANISED ROUND WIRE

**CONCRETE**

- CONCRETE MIX RATIOS TO BE AS FOLLOWS:  
(a) STRUCTURAL CONCRETE 1:2:4 (CEMENT : SAND : AGGREGATE)  
(b) BLINDING CONCRETE 1:3:6 (CEMENT : SAND : AGGREGATE)
- CONCRETE COVERS TO BE AS FOLLOWS:  
(a) ALL SUBSTRUCTURES - 50mm  
(b) COLLARS - 40mm  
(c) BEAMS - 25mm  
(d) SLABS - 15mm  
(e) B. R. C. MESH - 25mm FROM TOP OF SLAB
- REINFORCEMENT CUT, BENT AND SCHEDULED TO B.S. 4449. REINFORCEMENT DESIGNATED AS Y10-01-25B1 MEANS 10mm SQUARE TWISTED 10mm DIAMETER BARS DESIGNATED BAR MARK 01 PLACED AT 25 CENTERS AS FIRST BOTTOM LAYER.
- SQUARE TWISTED HIGH YIELD (Y BARS) REINFORCEMENT TO B.S. 4449. ROUND MILD STEEL (R BARS) REINFORCEMENT TO B.S. 4449.

**MASONRY**

- ALL LOAD BEARING WALLS TO BE MINIMUM 200mm THICK NATURAL STONE OR CONCRETE BLOCK WITH MIN. CRUSHING STRENGTH OF 14N/mm $^2$  FOR SUBSTRUCTURE AND 7N/mm $^2$  FOR SUPERSTRUCTURE.
- ALL WALLS LESS THAN 200mm THK. TO BE REINFORCED WITH GAUGE 20x25mm WIDE HOOP IRON STRIPS AT EVERY ALTERNATE COURSE

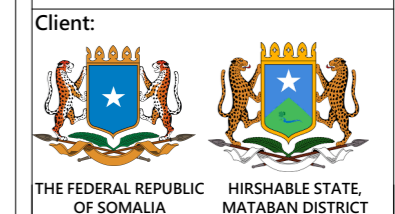
**STRUCTURAL STEEL**

- ALL WELDS TO BE FREE FROM SLAG SPUTTER AND IN RUNS OF 6mm LEG LENGTH
- ALL STRUCTURAL STEEL TO BE PAINTED WITH TWO COATS OF ZINC CHROMATE PRIMER, ONE AFTER FABRICATION AND ONE AFTER ERECTION.
- ALL BOLTS TO BE GRADE 8.8 BOLTS TO B. S. 4190, COMPLETE WITH NUTS AND WASHERS
- MINIMUM BOLT EDGE DISTANCE - 1.75 $\phi$
- MINIMUM BOLT CENTERS - 2.5 x  $\phi$

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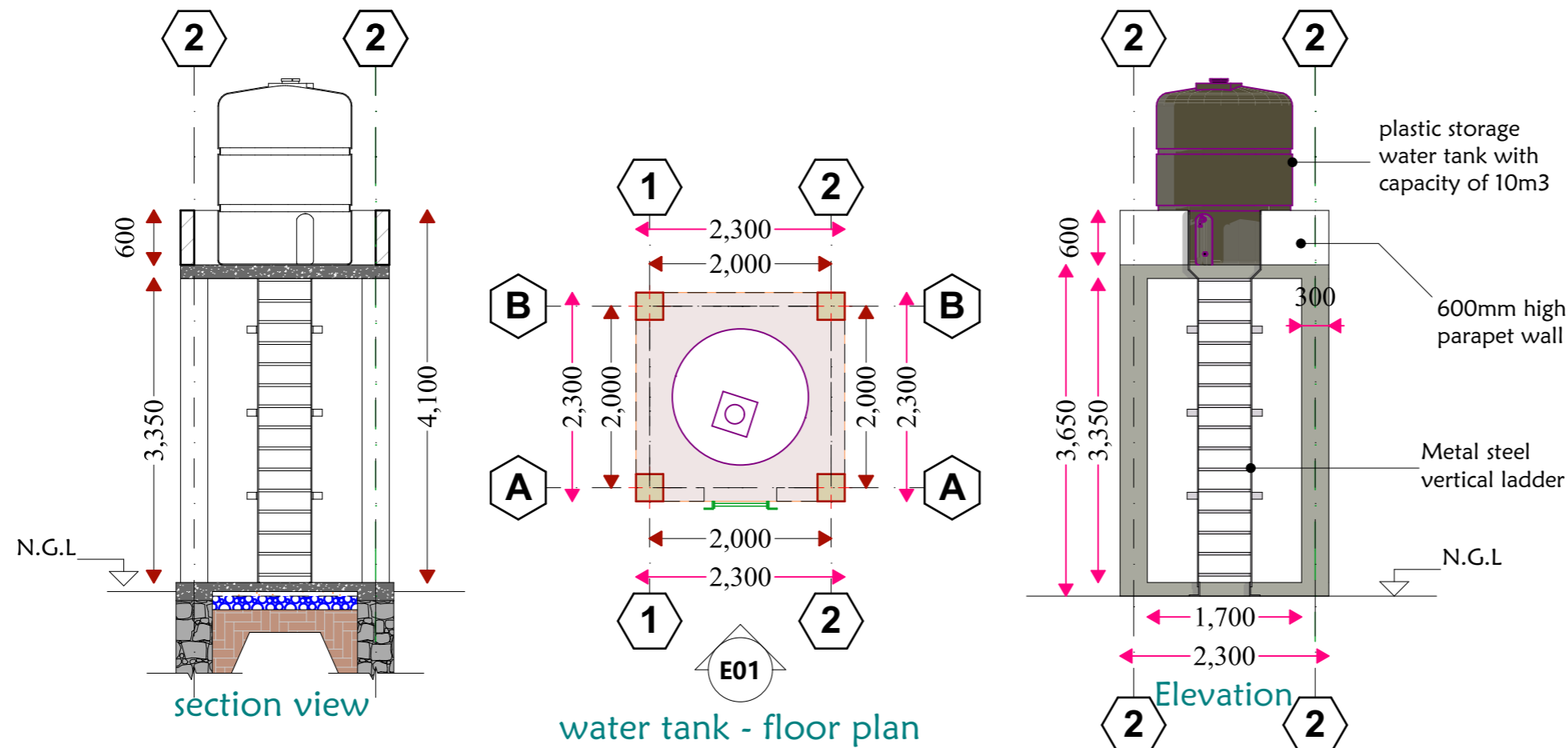


Project Title:  
**PROPOSED OF CONSTRUCTION  
MATABAN MAIN MARKET.**

Drawing Title:  
**Water tank**

SCALE: AS SHOWN  
DATE: MARCH 2019  
DESIGN & DRAWN BY: **ENG. M.Awil**  
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**A3**



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### NOTES

#### GENERAL

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2. GRID SETTING OUT DIMENSIONS TO BE CONFIRMED BY ENGINEER
3. ALL STRUCTURAL WORKS TO APPROVAL OF ENGINEER

#### STRUCTURAL TIMBER

4. SAWN TIMBER TO BE WELL SEASONED, PRESERVATIVE TREATED (GENERAL STRUCTURAL (GS) GRADE CYPRESS TO KS32 - 771 1989
5. ALL NAILS TO BE 3.4mm x 75mm LONG CUT FROM GALVANISED ROUND WIRE

#### CONCRETE

6. CONCRETE NOMINAL MIX RATIOS TO BE AS FOLLOWS:

- (i) STRUCTURAL CONCRETE: 1:1½:3
- (ii) (CEMENT: SAND: AGGREGATE) CLASS 25(20)
- (iii) BLINDING CONCRETE: 1:3:6
- (iv) (CEMENT: SAND: AGGREGATE) CLASS 15(20)

#### CONCRETE COVERS TO BE AS FOLLOWS:

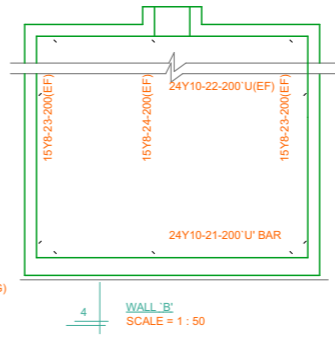
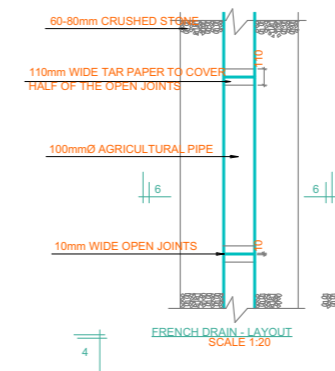
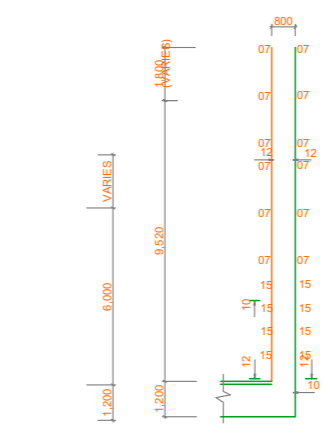
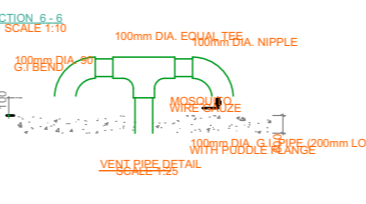
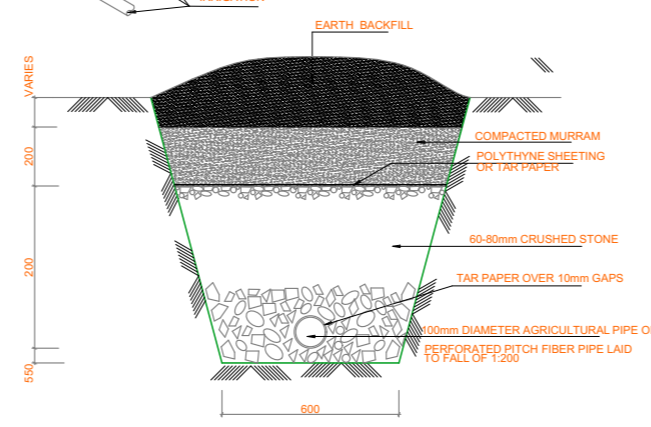
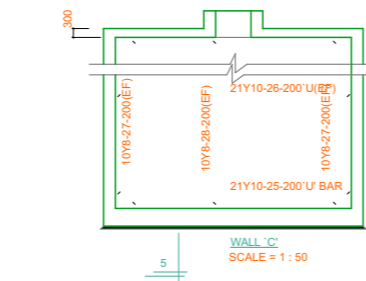
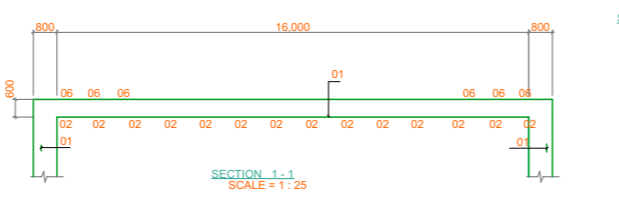
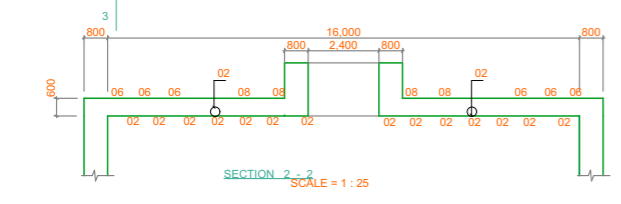
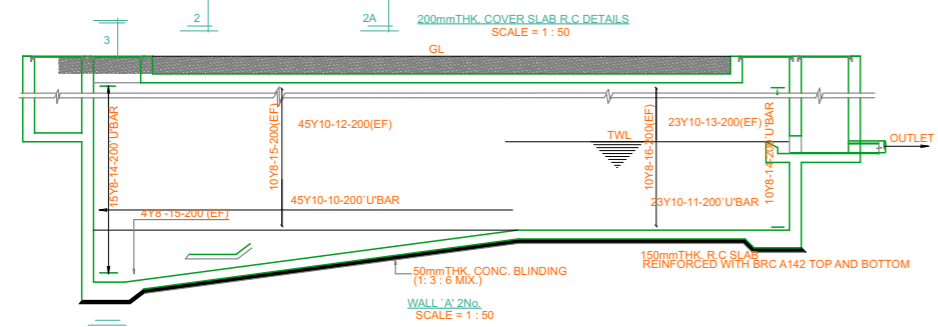
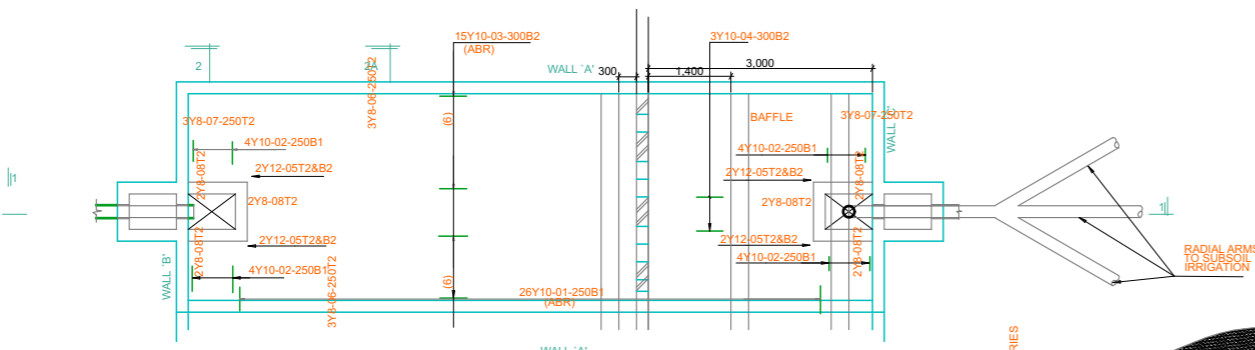
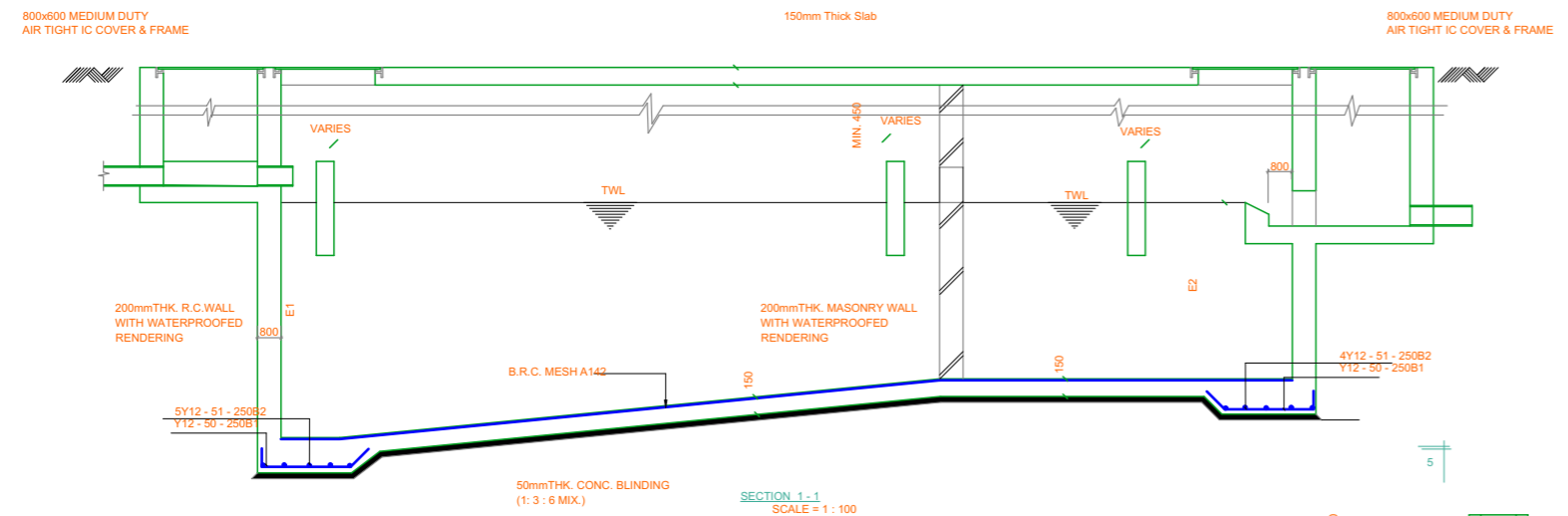
- (i) ALL SUBSTRUCTURES - 50mm
  - (ii) COLUMNS - 40mm
  - (iii) BEAMS - 25mm
  - (iv) SLABS - 15mm
  - (v) B. R. C MESH - 25mm FROM TOP OF SLAB
8. REINFORCEMENT CUT, BENT AND SCHEDULED TO B.S. 4469. REINFORCEMENT DESIGNATED AS 5Y10-01-250B1 MEANS 5No. SQUARE TWISTED 10mm DIAMETER BARS DESIGNATED BAR MARK 01 PLACED AT 225 CENTERS AS FIRST BOTTOM LAYER.

#### MASONRY

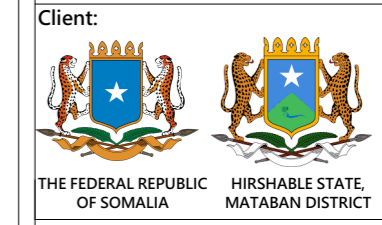
- 9. SQUARE TWISTED HIGH YIELD (Y-BARS) REINFORCEMENT TO B.S. 4461, ROUND MILD STEEL (R-BARS REINFORCEMENT) TO B.S. 4449.
- 10. ALL LOAD BEARING WALLS TO BE MINIMUM 200mm THICK NATURAL STONE OR CONCRETE BLOCK WITH MIN. CRUSHING STRENGTH OF 7N/mm<sup>2</sup>

#### STRUCTURAL STEEL

- 11. ALL WALLS LESS THAN 200mm THICK TO BE REINFORCED WITH GAUGE 20x25mm WIDE HOOP IRON STRAPS AT EVERY ALTERNATE COURSE
- 12. ALL WELDS TO BE FREE FROM SLAG SPATTER TO A TOTAL LEG LENGTH OF 6mm.
- 13. ALL STRUCTURAL STEEL TO BE PAINTED WITH TWO COATS OF ZINC CHROMATE PRIMER ONE AFTER FABRICATION AND ONE AFTER ERECTION.
- 14. ALL BOLTS TO BE GRADE 8.8 BOLTS TO B.S. 4190, COMPLETE WITH NUTS AND WASHERS
- 15. MINIMUM BOLT EDGE DISTANCE - 1.75xØ  
MINIMUM BOLT CENTERS - 2.5 x Ø



No:	Date:	Description:
REVISION		



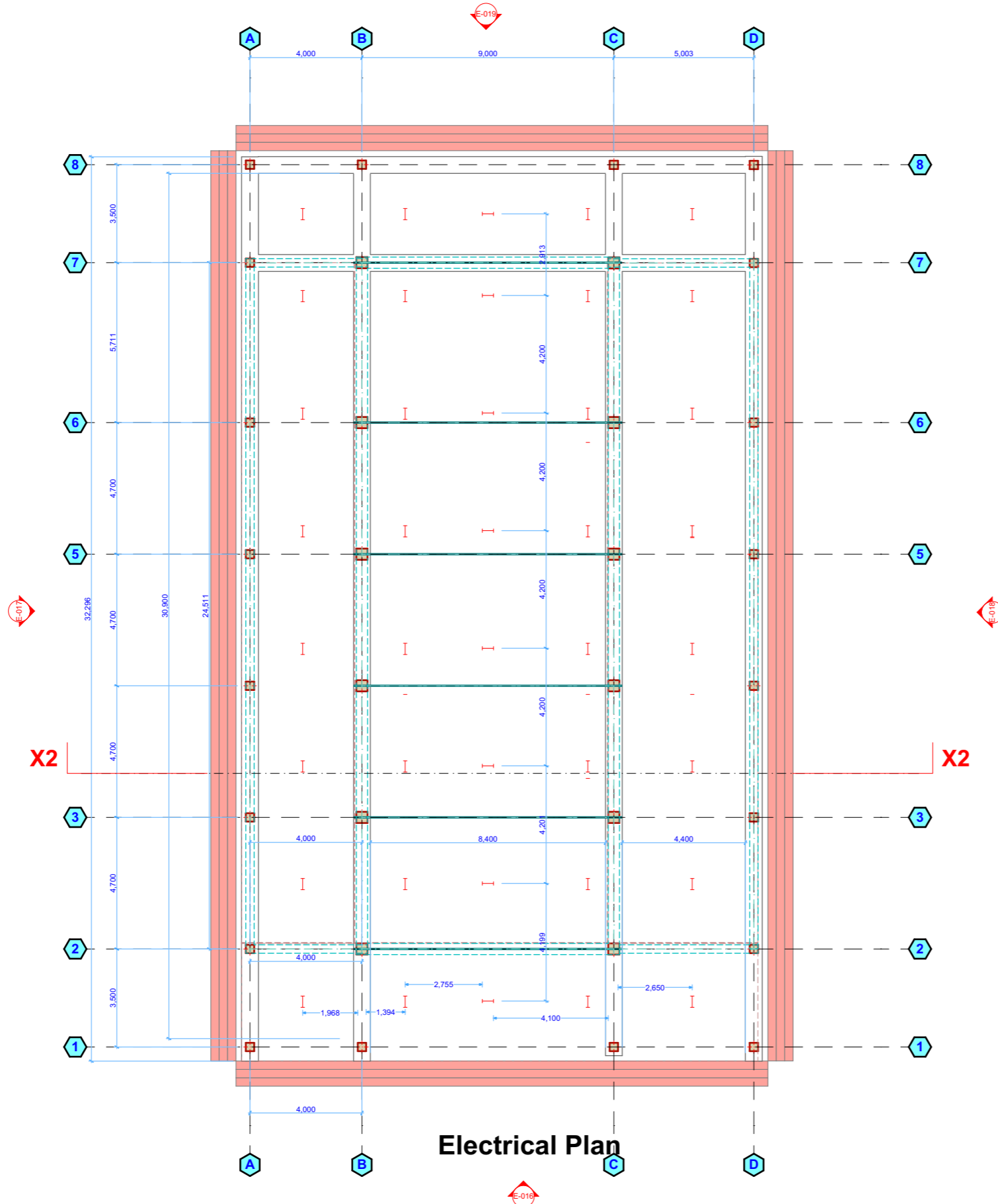
Project Title:  
**PROPOSED OF CONSTRUCTION  
MATABAN MAIN MARKET.**

Drawing Title:  
**Septic tank**

SCALE: AS SHOWN  
DATE: MARCH 2019  
DESIGN & DRAWN BY: **ENG. M.Awil**  
REVIEWED BY:

Sheet No.  
**A3**





**Electrical Plan**

## Notes



1. All dimensions are to be checked on site. Any discrepancy in dimensions is to be reported to the architect before any work commences. The Architect's drawings and specifications over rule any other, the Structural Engineers detail drawings.
2. All construction work to comply with the international standards codes protection.
3. The PV denotes permanent ventilation and must be provided above all doors and windows where indicated.
4. All walls less than 200mm thick are to be reinforced with hoop iron sheet every alternate course.
5. All reinforced concrete works to be done according to structural detail drawings

No:	Date:	Description:
REVISION		

Implemented by:



Client:

THE FEDERAL REPUBLIC OF SOMALIA      HIRSHABELLE STATE, MATUBAN DISTRICT

Project Title:  
**PROPOSED OF CONSTRUCTION  
MATUBAN MAIN MARKET.**

Drawing Title:  
**Electrical Plan**

SCALE: AS SHOWN  
 DATE: MARCH 2019  
 DESIGN & DRAWN BY: **ENG. M.Awil**  
 REVIEWED BY:

Sheet No. A3



# Notes

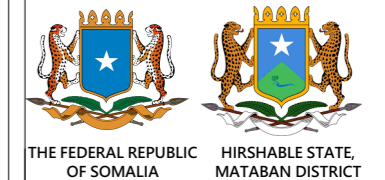
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No:	Date:	Description:
REVISION		

Implemented by:



Client:



Project Title:

**PROPOSED OF CONSTRUCTION  
MATABAN MAIN MARKET**

Drawing Title:

**3D\_01**

SCALE: AS SHOWN

DATE: MARCH 2019

DESIGN & DRAWN BY: **ENG. M.Awil**

REVIEWED BY:

Sheet No.



## Notes

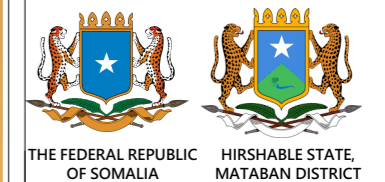
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No:	Date:	Description:
REVISION		

Implemented by:



Client:



Project Title:

**PROPOSED OF CONSTRUCTION  
MATABAN MAIN MARKET**

Drawing Title:

**3D\_02**

SCALE: AS SHOWN

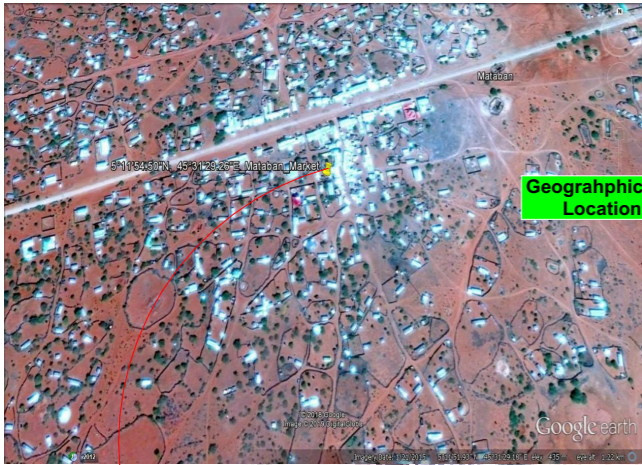
DATE: MARCH 2019

DESIGN &  
DRAWN BY: **ENG. M.Awil**

REVIEWED BY:

Sheet No.

A3



Geographic Site Location.

Google earth

9 Feb 2019 13:13:51  
 5.1988593908026814N 45.52524835802615E



Existing market

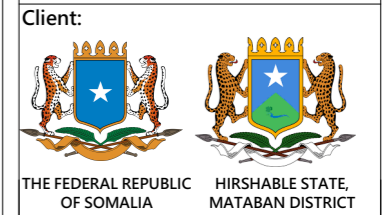


Proposed construction market

## Notes

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No:	Date:	Description:
REVISION		



Project Title:  
**PROPOSED OF CONSTRUCTION MATABAN MAIN MARKET**

Drawing Title:  
**3D\_View\_03**

SCALE: AS SHOWN  
 DATE: MARCH 2019  
 DESIGN & DRAWN BY: **ENG. M.Awil**

REVIEWED BY:

Sheet No.

A3