



# مجلس التعليم العالي

مجلس التعليم العالي: رتب احدث لائحة مسابقات تجريبية لمرشحي وظائف تدريسية في كليات العلوم والادب في الجامعات الفلسطينية

مجلس التعليم العالي: رقم: 2024/10-PC

تاريخ النشر: 2024/25-226-H/226-IUL

مجلس التعليم العالي  
مجلس التعليم العالي، تل أبيب، فلسطين

1 කොටස

මිලදීගැනීමේ කොටස

| <p>මිලදීගැනීමේ කොටස</p>  | <p>මිලදීගැනීමේ කොටස</p> |
|--|-------------------------|
| <p>රජයේ සේවයේ සඳහා: සර්ව අභ්‍යන්තර මධ්‍යස්ථ මිලදීගැනීමේ ක්‍රියාමාර්ගයේ රීති සහ කොටස 1 කොටස 1</p> <p>(IUL)226-H/226/2024/25</p> <p>2024 අගෝස්තු මාසයේ 24 වන දිනට පෙර</p>  | <p>1.1</p>              |
| <p>මිලදීගැනීමේ කොටසේ විස්තරය සඳහා:</p> <p><a href="https://www.haadhaal.gov.mv/bid-register">https://www.haadhaal.gov.mv/bid-register</a></p> <p>2024 අගෝස්තු මාසයේ 01 වන දිනට පෙර 11:00 පැයේ</p> <p>අලුත් මිලදීගැනීමේ කොටසක් ලෙසින් සඳහා මිලදීගැනීමේ කොටසක් ලෙසින්</p> <p>අලුත් මිලදීගැනීමේ කොටසක් ලෙසින්, ආදායම්, පුනරුත්ථාපනය.</p> <p>6528801</p> | <p>8.1</p>              |
| <p>මිලදීගැනීමේ කොටසේ විස්තරය සඳහා:</p> <p>මිලදීගැනීමේ කොටසක් ලෙසින් සඳහා මිලදීගැනීමේ කොටසක් ලෙසින්</p> <p>2024 අගෝස්තු මාසයේ 30 වන දිනට පෙර</p> <p>පුනරුත්ථාපනය</p> <p>11:00</p>   | <p>9.1</p>              |
| <p>මිලදීගැනීමේ කොටසේ විස්තරය සඳහා:</p> <p><a href="mailto:procurement@haadhaal.gov.mv">procurement@haadhaal.gov.mv</a></p>   | <p>9.2</p>              |
| <p>අලුත් මිලදීගැනීමේ කොටසක් ලෙසින් (පුනරුත්ථාපනය)</p>  | <p>13.1</p>             |
| <p>මිලදීගැනීමේ කොටසේ විස්තරය සඳහා:</p> <p>මිලදීගැනීමේ කොටසක් ලෙසින් සඳහා මිලදීගැනීමේ කොටසක් ලෙසින්</p> <p>2024 අගෝස්තු මාසයේ 07 වන දිනට පෙර</p> <p>පුනරුත්ථාපනය</p> <p>11:00</p>   | <p>18.1</p>             |
| <p>මිලදීගැනීමේ කොටසේ විස්තරය සඳහා:</p> <p>මිලදීගැනීමේ කොටසක් ලෙසින් සඳහා මිලදීගැනීමේ කොටසක් ලෙසින්</p> <p>2024 අගෝස්තු මාසයේ 07 වන දිනට පෙර</p> <p>පුනරුත්ථාපනය</p> <p>11:00</p>   | <p>20.1</p>             |

رشد ارز و ارزش پول ملی و سرمایه‌های خارجی

|   |             |
|---|-------------|
| <p>میانگین نرخ ارز در سال 1397 برابر با 6 ریال است.</p>                                   | <p>24.1</p> |
| <p>میانگین نرخ ارز در سال 1398 برابر با 500 ریال است (قرارداد با سرمایه‌گذاران خارجی)</p> | <p>28.1</p> |
| <p>میانگین نرخ ارز در سال 1399 برابر با 2.5٪ است.</p>                                     | <p>30.1</p> |



3.3.2 הגשת המסמכים למערכת הניהול...  
סדר הגשת המסמכים למערכת הניהול...  
הגשת המסמכים למערכת הניהול...

3.3.2 הגשת המסמכים למערכת הניהול...  
סדר הגשת המסמכים למערכת הניהול...  
הגשת המסמכים למערכת הניהול...

3.3.4 הגשת המסמכים למערכת הניהול...  
סדר הגשת המסמכים למערכת הניהול...  
הגשת המסמכים למערכת הניהול...

3.3.5 הגשת המסמכים למערכת הניהול...  
סדר הגשת המסמכים למערכת הניהול...  
הגשת המסמכים למערכת הניהול...

4.1 רשימת המסמכים למערכת הניהול...  
סדר הגשת המסמכים למערכת הניהול...  
הגשת המסמכים למערכת הניהול...

5.1 הגשת המסמכים למערכת הניהול...  
סדר הגשת המסמכים למערכת הניהול...  
הגשת המסמכים למערכת הניהול...

6.1 הגשת המסמכים למערכת הניהול...  
סדר הגשת המסמכים למערכת הניהול...  
הגשת המסמכים למערכת הניהול...





16.1.7 "וַיִּשְׁמַע ה' אֶת-קוֹלָהּ" וְיָרַד מִן-הַשָּׁמַיִם וַיִּבְרָךְ אֶת-נֹחַ וְאֶת-בָּנָיו

אֲשֶׁר-אִתּוֹ בַּיָּם

16.1.8 6.1 וַיִּשְׁמַע ה' אֶת-קוֹלָהּ וַיִּבְרָךְ אֶת-נֹחַ וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ

16.2 וַיִּשְׁמַע ה' אֶת-קוֹלָהּ וַיִּבְרָךְ אֶת-נֹחַ וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

16.2.1 וַיִּשְׁמַע ה' אֶת-קוֹלָהּ וַיִּבְרָךְ אֶת-נֹחַ וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ

בַּיָּם וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

16.2.2 וַיִּשְׁמַע ה' אֶת-קוֹלָהּ וַיִּבְרָךְ אֶת-נֹחַ וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ

בַּיָּם

(א) וַיִּשְׁמַע ה' אֶת-קוֹלָהּ וַיִּבְרָךְ אֶת-נֹחַ וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ

בַּיָּם וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

(ב) וַיִּשְׁמַע ה' אֶת-קוֹלָהּ וַיִּבְרָךְ אֶת-נֹחַ וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ

בַּיָּם וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

(ג) וַיִּשְׁמַע ה' אֶת-קוֹלָהּ וַיִּבְרָךְ אֶת-נֹחַ וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ

בַּיָּם וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

16.2.3 וַיִּשְׁמַע ה' אֶת-קוֹלָהּ וַיִּבְרָךְ אֶת-נֹחַ וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ

בַּיָּם וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

(א) וַיִּשְׁמַע ה' אֶת-קוֹלָהּ וַיִּבְרָךְ אֶת-נֹחַ וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ

בַּיָּם וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

(ב) וַיִּשְׁמַע ה' אֶת-קוֹלָהּ וַיִּבְרָךְ אֶת-נֹחַ וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ

בַּיָּם וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

(ג) וַיִּשְׁמַע ה' אֶת-קוֹלָהּ וַיִּבְרָךְ אֶת-נֹחַ וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ

בַּיָּם וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

(ד) וַיִּשְׁמַע ה' אֶת-קוֹלָהּ וַיִּבְרָךְ אֶת-נֹחַ וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ

בַּיָּם וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם

(ה) וַיִּשְׁמַע ה' אֶת-קוֹלָהּ וַיִּבְרָךְ אֶת-נֹחַ וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ

בַּיָּם וְאֶת-בָּנָיו אֲשֶׁר-אִתּוֹ בַּיָּם



16.3. 16.3.1 16.3.2

16.3.1 16.3.2

16.3.2

(ب) 17

17.1

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17.2

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(ع) 20

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20.1

20.1



















עקסערט - 2

פּאַרטיסער נאָרטיש

1. פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש

|     |                    |
|-----|--------------------|
| 1.1 | פּאַרטיסער נאָרטיש |
| 1.2 | פּאַרטיסער נאָרטיש |

2. פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש

|     |                    |
|-----|--------------------|
| 2.1 | פּאַרטיסער נאָרטיש |
| 2.2 | פּאַרטיסער נאָרטיש |

3. פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש

|     |  |
|-----|--|
| 3.1 | פּאַרטיסער נאָרטיש   |
|     | פּאַרטיסער נאָרטיש   |
|     | פּאַרטיסער נאָרטיש   |
| 3.2 | פּאַרטיסער נאָרטיש (פּאַרטיסער נאָרטיש)                    |
| 3.3 | פּאַרטיסער נאָרטיש (פּאַרטיסער נאָרטיש) פּאַרטיסער נאָרטיש |

4. פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש

|     |  |
|-----|--|
| 4.1 | פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש |
| 4.2 | פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש |
| 4.3 | פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש |

5. פּאַרטיסער נאָרטיש פּאַרטיסער נאָרטיש

|  |                    |
|--|--------------------|
|  | פּאַרטיסער נאָרטיש |
|  | פּאַרטיסער נאָרטיש |
|  | פּאַרטיסער נאָרטיש |
|  | פּאַרטיסער נאָרטיש |



4 - قىسىم

بۇ قىسىمدا 4 تىن ئارتۇق جاھازىلار بار

| بۇ قىسىمدا 4 تىن ئارتۇق جاھازىلار بار |                |         |         |
|---------------------------------------|----------------|---------|---------|
| #                                     | جاھازىنىڭ نامى | مىقدارى | بىرلىكى |
|                                       |                |         |         |
|                                       |                |         |         |
|                                       |                |         |         |
|                                       | جەمئىي         |         |         |
| بۇ قىسىمدا 4 تىن ئارتۇق جاھازىلار بار |                |         |         |
| #                                     | جاھازىنىڭ نامى | مىقدارى | بىرلىكى |
|                                       |                |         |         |
|                                       |                |         |         |
|                                       |                |         |         |
|                                       | جەمئىي         |         |         |





Form of Bid Security (Bank Guarantee)

WHEREAS, .....“name of Bidder” (hereinafter called “the Bidder”) has submitted his Bid for the Project no.....issued by the Ministry of Finance and Treasury on .....for construction of .....“name of Contract” (hereinafter called “the Bid”).

KNOW ALL PEOPLE by these presents that We ..... “name of Bank” of ..... “name of country” having our registered office at ..... (hereinafter called “the Bank”) are bound unto .....“name of Purchaser” (hereinafter called “the Purchaser”) in the sum of \*..... for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents.

SEALED with the Common Seal of the said Bank this .....day of .....20.....

THE CONDITIONS of this obligation are:

- (1) If, after Bid opening, the Bidder withdraws his Bid during the period of Bid validity specified in the Form of Bid;
  - or
- (2) If the Bidder having been notified of the acceptance of his Bid by the Purchaser during the period of Bid validity:
  - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
  - (b) fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders; or
  - (c) does not accept the correction of the Bid Price pursuant to Clause 27,

\* The Bidder should insert the amount of the Guarantee in words and figures denominated in Maldivian Rufiyaa. This figure should be the same as shown in Clause 16.1 of the Instructions to Bidders.

we undertake to pay to the Purchaser up to the above amount upon receipt of his first written demand, without the Purchaser’s having to substantiate his demand, provided that in his demand the Purchaser will note that the amount claimed by him is due to him owing to the occurrence of one or any of the three conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date ..... days after the deadline for submission of bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Purchaser, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE..... SIGNATURE OF THE BANK

WITNESS ..... SEAL

“signature, name, and address”



Form of Performance Bank Guarantee (Unconditional)

To: .....  
"name & address of Purchaser"  
.....  
.....

WHEREAS ..... "name and address of Supplier" (hereinafter called "the Supplier") has undertaken, in pursuance of Contract No. .... dated ..... to execute ..... "name of Contract and brief description of Works" (hereinafter called "the Contract");

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Supplier such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Supplier, up to a total of \*..... "amount of Guarantee" ..... "amount in words", such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of ..... "amount of Guarantee" as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

\*An amount is to be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract, in Maldivian Rufiyaa.

We hereby waive the necessity of your demanding the said debt from the Supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Supplier shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any such change, addition, or modification.

This Guarantee shall be valid until the date of issue of the Defects Correction Certificate.

SIGNATURE AND SEAL OF THE GUARANTOR .....

Name of Bank .....

Address .....

.....

.....

Date .....

Form of Bank Guarantee for Advance Payment

To: .....

“name & address of Purchaser”

.....

.....

“name of Contract”

Gentlemen:

In accordance with the provisions of the Conditions of Contract, of the above-mentioned Contract, .....“name and address of Supplier” (hereinafter called “the Supplier”) shall deposit with ..... “name of Purchaser” a Bank Guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of .....“amount of Guarantee” .....“amount in words”.

We, the .....

“Bank or Financial Institution”, as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to ..... “name of Purchaser” on his first demand without whatsoever right of objection on our part and without his first claim to the Supplier, in the amount not exceeding \* ..... “amount of Guarantee” ..... “amount in words”.

We further agree that no change or addition to or other modification of the terms of the Contract or of Works to be performed there under or of any of the Contract documents which may be made between .....“name of Purchaser” and the Supplier, shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any such change, addition, or modification.

\* An amount is to be inserted by the Bank or Financial Institution representing the amount of the Advance Payment, in Maldivian Rufiyaa.

This Guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until .....“name of Purchaser” receives full repayment of the same amount from the Supplier.

Yours truly,

SIGNATURE AND SEAL: .....

NAME & ADDRESS OF BANK/INSTITUTION .....

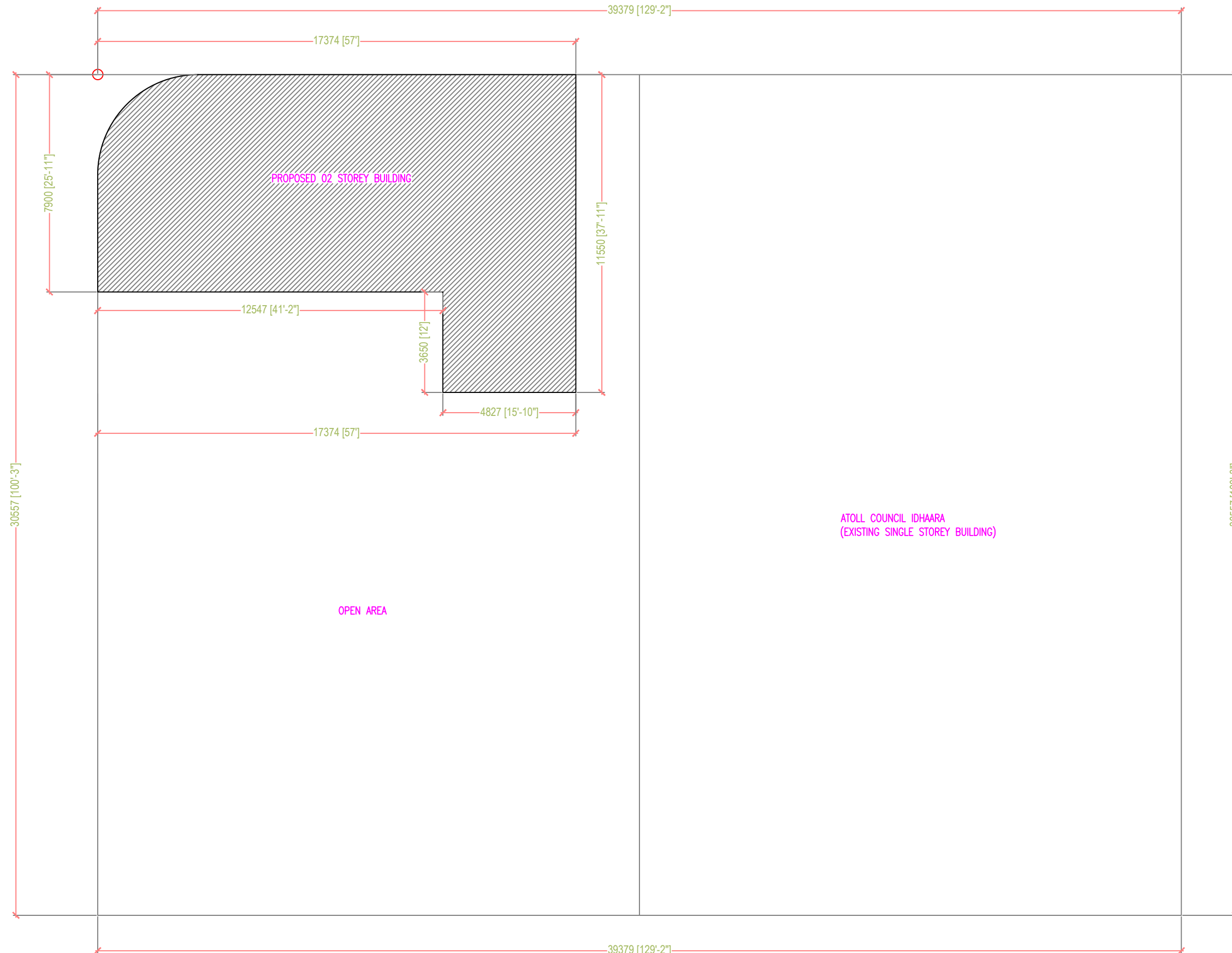












9.5 FEET GOALHI

PROPOSED 02 STOREY BUILDING

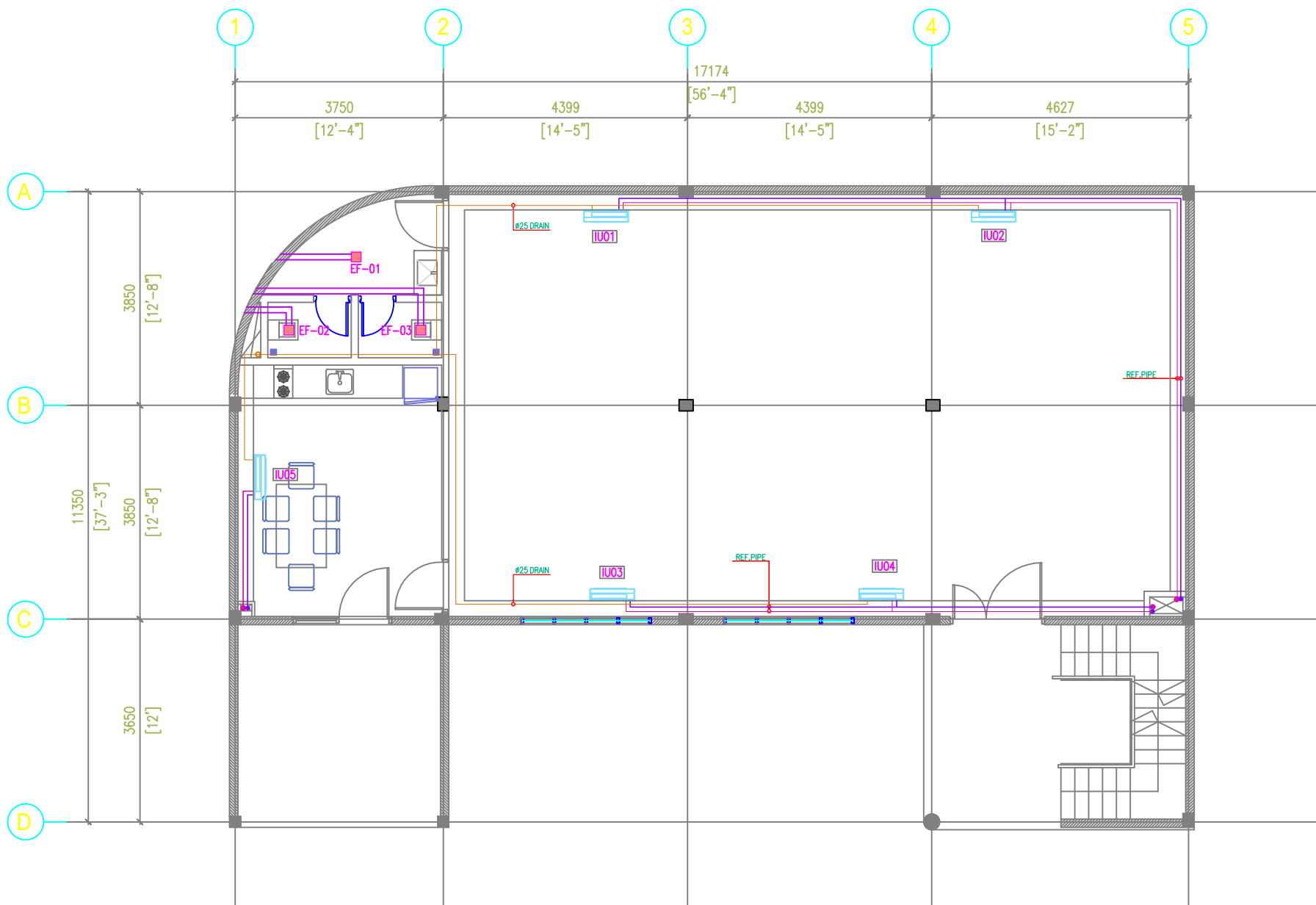
ATOLL COUNCIL IDHAARA  
(EXISTING SINGLE STOREY BUILDING)

OPEN AREA

**SITE PLAN**  
SCALE 1:150

AMEENEE MAGU (40 FEET)

|   |
|---|
| PROJECT:<br><b>HAA DHAAL ATOLL COUNCIL<br/>TRAINING HALL</b>  |
| CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL  |
| SCALE: AS GIVEN   |
| DATE: SEPTEMBER 2024  |
| <small>THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS, SPECIFICATIONS, REPORTS AND DRAWINGS. CONTRACTORS SHALL WORK FROM FIGURED DIMENSION ONLY. CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE.</small> |



**GROUND FLOOR AC PLAN**  
SCALE 1:100

| NO.     | DESCRIPTION                                    | CAPACITY     | REF. OUTDOOR |
|---------|--|--------------|--------------|
| IU01-02 | WALL MOUNTED MULTI SPLIT-TYPE INVERTER AC UNIT | 21000 BTU/Hr | OU-01        |
| IU03-04 | WALL MOUNTED MULTI SPLIT-TYPE INVERTER AC UNIT | 21000 BTU/Hr | OU-02        |
| IU05    | WALL MOUNTED TYPE INVERTER AC UNIT             | 12000 BTU/Hr | OU-03        |
| EF01-03 | CEILING CONCEALED TYPE EXHAUST FAN             |              | --           |

| AIR CONDITIONING & VENTILATION LEGEND |                                    |
|---------------------------------------|------------------------------------|
| SYMBOL                                | DESCRIPTION                        |
|                                       | AIR-CONDITIONER INDOOR UNIT        |
|                                       | CEILING CASSETTE INDOOR UNIT       |
|                                       | AIR-CONDITIONING REFRIGERANT PIPES |
|                                       | AIR-CONDITIONING DRAIN PIPE LINE   |
|                                       | MECHANICAL EXHAUST                 |

- 1 - ALL AIR-CONDITIONING UNITS SHALL INCLUDE REQUIRED POWER POINTS(15AMP SOCKETS) AND WIRING.
- 2 - ALL REFRIGERANT PIPING AND CONDENSATE PIPING SHALL HAVE APPROPRIATE , FULLY SEALED CONTINUOUS INSULATION.
- 3 - ALL FANS & AC EQUIPMENTS SHALL BE MOUNTED TO ISOLATE VIBRATION.
- 4 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS BEFORE COMMENCEMENT OF WORK, SHOWING:
  - SCHEMATIC DIAGRAM OF OVERALL BUILDING.
  - AC GAS AND DRAINAGE DUCTING LAYOUT WITHIN FLOORS
  - ARRANGEMENT AND FIXING OF PIPING WITHIN THE DUCTS
  - THICKNESS OF INSULATION
  - METHOD OF MOUNTING, DEPTH ANCHOR BOLTS, DIAMETER, ANCHORING GROUT (IF APPLICABLE)
  - AC DRAINAGE PIPE SHALL BE TOTALLY SEPARATE SYSTEM, NOT CONNECTED TO THE MAIN DRAINAGE SYSTEM OF THE BUILDING, SO THAT AC SYSTEMS ARE SMELL FREE.
- 5- AC INSULATION SHALL BE SQUASHED WHEN LAID, ANY COMPRESSED OR SQUASHED AREA SHALL BE MADE GOOD BEFORE COMMISSIONING.
- 5 - CONTRACTOR SHALL SUBMIT EQUIPMENT DETAILS BEFORE ORDERING.
- 6 - CONTRACTOR SHALL PROVIDE AS BUILT & EQUIPMENT OPERATION & MAINTENANCE MANUAL UPON WORK COMPLETION
- 7 - COMMISSIONING AND TESTING SHALL BE DONE IN THE PRESENCE OF OWNER AND PROJECT MANAGER AND DEFECTS IDENTIFIED IN THE COMMISSIONING STAGE SHALL BE IMMEDIATELY RECTIFIED BEFORE HANDING OF WORKS.
- 8 - PROVIDE MECHANICAL EXHAUST FOR ALL TOILETS (BOTH COMMERCIAL AND RESIDENTIAL)

PROJECT:

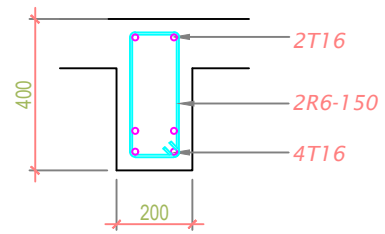
HAA DHAAL ATOLL COUNCIL  
TRAINING HALL

CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL

SCALE: AS GIVEN

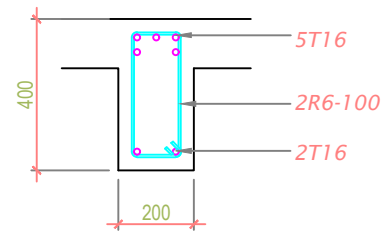
DATE: SEPTEMBER 2024

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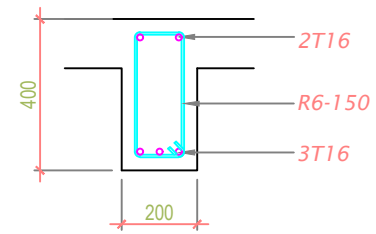


MIDSPAN

B1

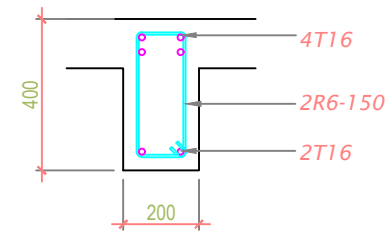


SUPPORT

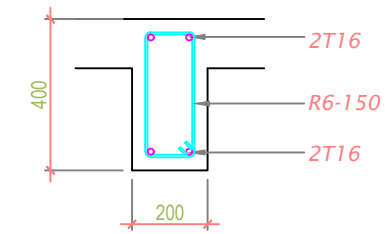


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B2

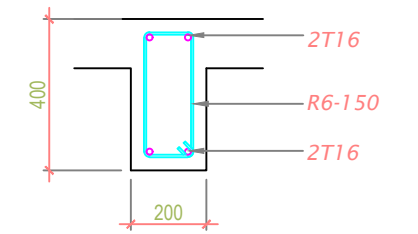


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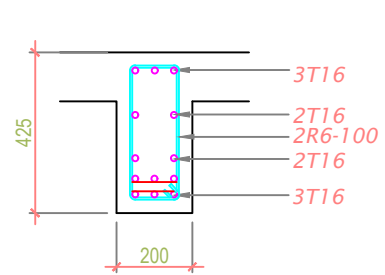


MIDSPAN

B3

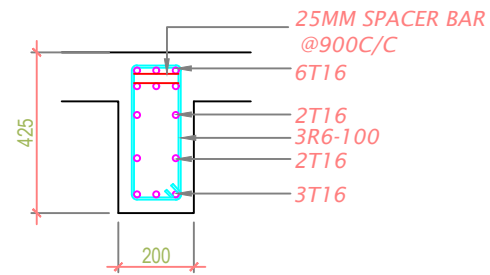


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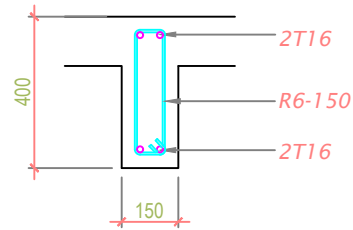


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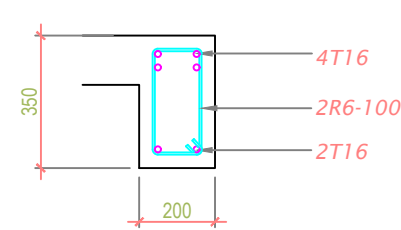
B4



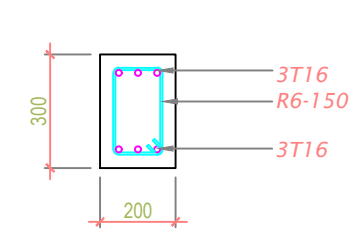
SUPPORT



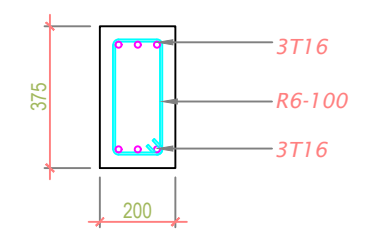
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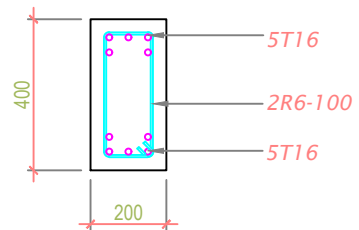
CB



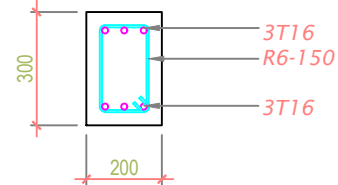
TB1



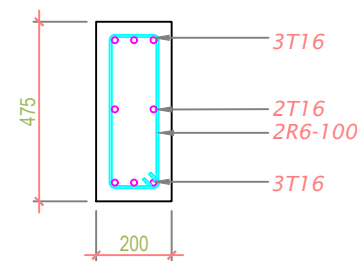
TB2



RB1



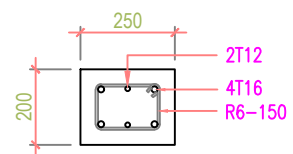
RB2



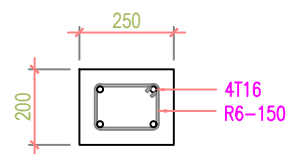
RB3

**BEAM DETAILS**

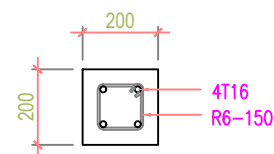
SCALE 1:20



C1



C2



C3

**COLUMN DETAILS**

SCALE 1:20

**NOTE:**  
 COVER TO:  
 FOUNDATION: 50MM  
 COLUMNS: 40MM  
 BEAMS: 30-35MM  
 SLABS: 25-30MM  
 MIX RATIO: 1:2:3 (CEMENT:SAND:AGGREGATE)

**PROJECT:**

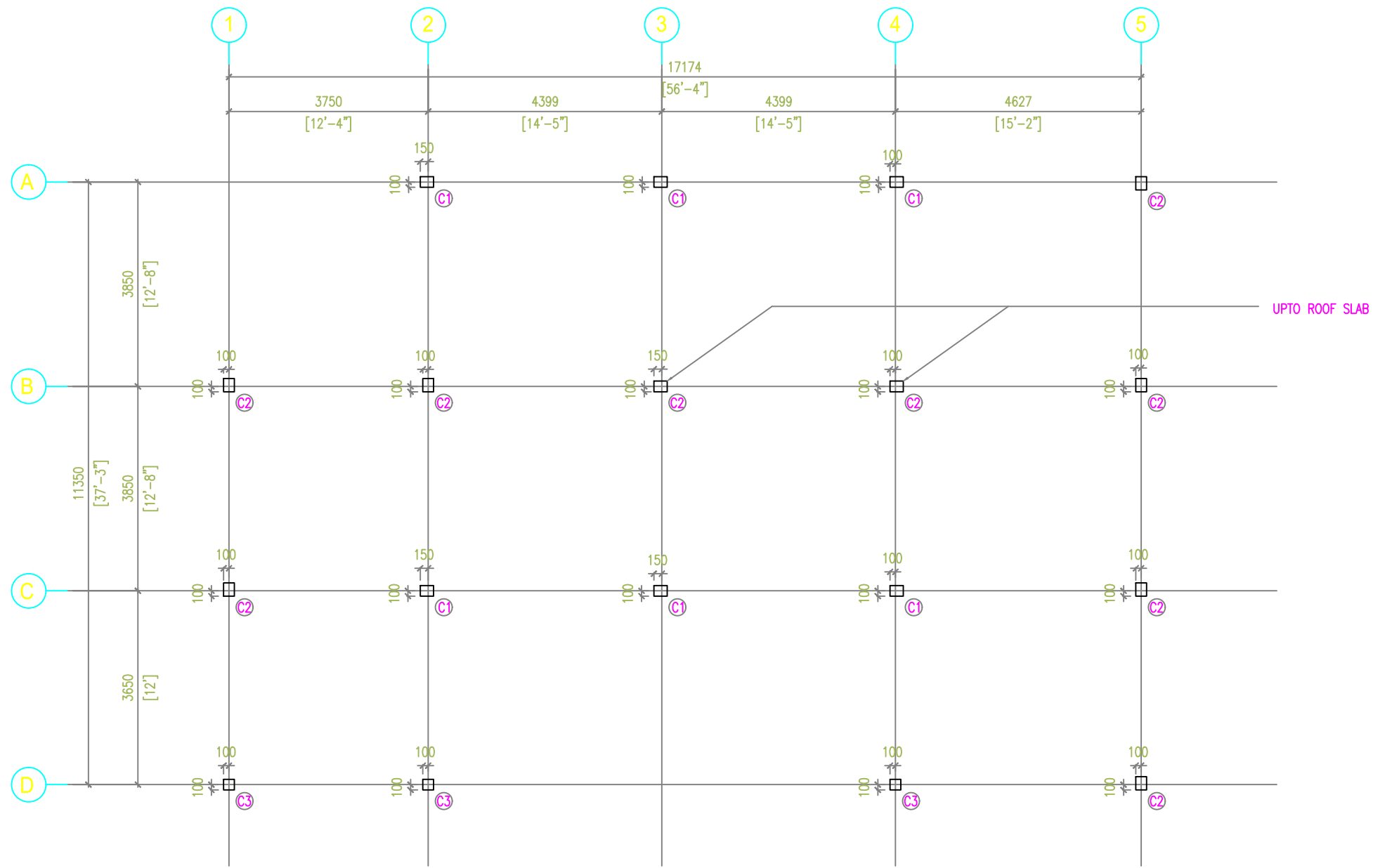
HAA DHAAL ATOLL COUNCIL  
 TRAINING HALL

CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL

SCALE: AS GIVEN

DATE: SEPTEMBER 2024

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**COLUMN LOCATION PLAN**  
SCALE 1:100

PROJECT:  
HAA DHAAL ATOLL COUNCIL  
TRAINING HALL

CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL

SCALE: AS GIVEN

DATE: SEPTEMBER 2024

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|                 |  |  |  |   |
|-----------------|--|--|--|---|
| PLAN:           |  |  |  |   |
| E.F.L.          |  |  |  |   |
| DOOR / WIND NO: | <b>D5</b>  | <b>FG1</b>                             | <b>FG2</b>                             | <b>W1</b>   |
| DESCRIPTION:    | ALUMINUM FRAMED OPENABLE DOOR                    | ALUMINUM FRAMED FIXED GLASS PANELS     | ALUMINUM FRAMED FIXED GLASS PANELS     | ALUMINUM FRAMED WINDOWPANELS                          |
| FRAME:          | 80 MICRON POWDER COATED ALUMINUM FRAME           | 80 MICRON POWDER COATED ALUMINUM FRAME | 80 MICRON POWDER COATED ALUMINUM FRAME | 80 MICRON POWDER COATED ALUMINUM FRAME                |
| DOOR PANEL:     | 01 NO. OPENABLE DOOR PANEL                       | 06 NOS. FIXED GLASS PANELS             | 08 NOS. FIXED GLASS PANELS             | 04 NOS. OPENABLE PANELS<br>04 NOS. FIXED GLASS PANELS |
| HARDWARE:       | • 03 NOS. HINGES<br>• 01 NO. LOCK / DOOR HANDLES | --                                     | --                                     | • 08 NOS. HINGES<br>• 04 NO. LOCK / DOOR HANDLES      |
| GLAZING:        | --   | 6MM THICK TINTED GLASS                 | 6MM THICK TINTED GLASS                 | 6MM THICK TINTED GLASS                                |
| FINISH:         | WOODEN FINISH ALUMINIUM DOOR PANEL               |  |  |   |

## DOOR WINDOW SCHEDULE 2/2

SCALE 1:50

### NOTE:

- ALL ALUMINUM DOORS & WINDOWS EXTRUSION COATING TO MATCH OVERALL BUILDING SPECIFICATIONS, AND COLOR TO ARCHITECT'S APPROVAL.
- SHOP DRAWINGS AND TECHNICAL SPECIFICATIONS FOR ALL ALUMINIUM DOORS AND WINDOWS SHOWING DETAILS OF SECTIONS, ASSEMBLY, TYPE OF LOCKS, HINGES, BOLTS AND HANDLES SHOULD BE SUBMITTED BY THE CONTRACTOR FOR THE CONSULTANTS APPROVAL.
- ALL ELEVATIONS SHOWN FROM OUTSIDE .
- FOR DOORS SEE SWINGS INDICATED ON FLOOR PLANS.
- ALL MEASUREMENTS TO BE CHECKED ON SITE BEFORE FABRICATION.

NOTE:  
FG- FIXED GLASS  
TB-TIMBER  
GL-GLASS  
AL-ALUMINIUM PANEL

PROJECT:  
**HAA DHAAL ATOLL COUNCIL  
TRAINING HALL**

CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL

SCALE: AS GIVEN

DATE: SEPTEMBER 2024

THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS , SPECIFICATIONS, REPORTS AND DRAWINGS. CONTRACTORS SHALL WORK FROM FIGURED DIMENSION ONLY. CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE.

|                 |   |  |  |   |
|-----------------|---|--|--|---|
| PLAN:           |   |  |  |   |
| E.F.L.          |   |  |  |   |
| DOOR / WIND NO: | <b>D1</b>   | <b>D2</b>  | <b>D3</b>  | <b>D4</b>   |
| DESCRIPTION:    | ALUMINUM FRAMED OPENABLE DOOR   | ALUMINUM FRAMED OPENABLE DOOR  | ALUMINUM FRAMED OPENABLE DOOR  | OPENABLE SOLID TIMBER DOOR PANEL  |
| FRAME:          | 80 MICRON POWDER COATED ALUMINUM FRAME  | 80 MICRON POWDER COATED ALUMINUM FRAME   | 80 MICRON POWDER COATED ALUMINUM FRAME   | TIMBER (SOLID) 120MMX50MM WITH ARCHITRAVE   |
| DOOR PANEL:     | 02 NOS. OPENABLE DOOR PANELS  | <ul style="list-style-type: none"> <li>• 01 NOS. OPENABLE DOOR PANEL</li> <li>• 01 NO. OPENABLE WINDOW PANEL</li> <li>• 02 NOS. FIXED GLASS PANEL</li> </ul> | 01 NO. OPENABLE DOOR PANEL   | <ul style="list-style-type: none"> <li>• 02 NOS. SOLID TIMBER OPENABLE DOOR PANEL</li> <li>• 01 NO. SOLID TIMBER FIXED PANEL</li> </ul> |
| HARDWARE:       | <ul style="list-style-type: none"> <li>• 08 NOS. HINGES</li> <li>• 02 NOS. LOCK / DOOR HANDLES</li> </ul> | <ul style="list-style-type: none"> <li>• 06 NOS. HINGES</li> <li>• 02 NOS. LOCK / DOOR HANDLES</li> </ul>  | <ul style="list-style-type: none"> <li>• 03 NOS. HINGES</li> <li>• 01 NO. LOCK / DOOR HANDLES</li> </ul> | <ul style="list-style-type: none"> <li>• 08 NOS. HINGES.</li> <li>• 02 NO. LOCK / DOOR HANDLES</li> </ul>                               |
| GLAZING:        | 6MM THICK CLEAR GLASS   | 6MM THICK TINTED GLASS   | --   | --  |
| FINISH:         |   | WOODEN FINISH ALUMINIUM DOOR PANEL   | WOODEN FINISH ALUMINIUM DOOR PANEL   | VARNISH FINISH  |

## DOOR WINDOW SCHEDULE 1/2

SCALE 1:50

### NOTE:

- ALL ALUMINUM DOORS & WINDOWS EXTRUSION COATING TO MATCH OVERALL BUILDING SPECIFICATIONS. AND COLOR TO ARCHITECT'S APPROVAL.
- SHOP DRAWINGS AND TECHNICAL SPECIFICATIONS FOR ALL ALUMINIUM DOORS AND WINDOWS SHOWING DETAILS OF SECTIONS, ASSEMBLY, TYPE OF LOCKS, HINGES, BOLTS AND HANDLES SHOULD BE SUBMITTED BY THE CONTRACTOR FOR THE CONSULTANTS APPROVAL.
- ALL ELEVATIONS SHOWN FROM OUTSIDE .
- FOR DOORS SEE SWINGS INDICATED ON FLOOR PLANS.
- ALL MEASUREMENTS TO BE CHECKED ON SITE BEFORE FABRICATION.

NOTE:  
 FG- FIXED GLASS  
 TB-TIMBER  
 GL-GLASS  
 AL-ALUMINIUM PANEL

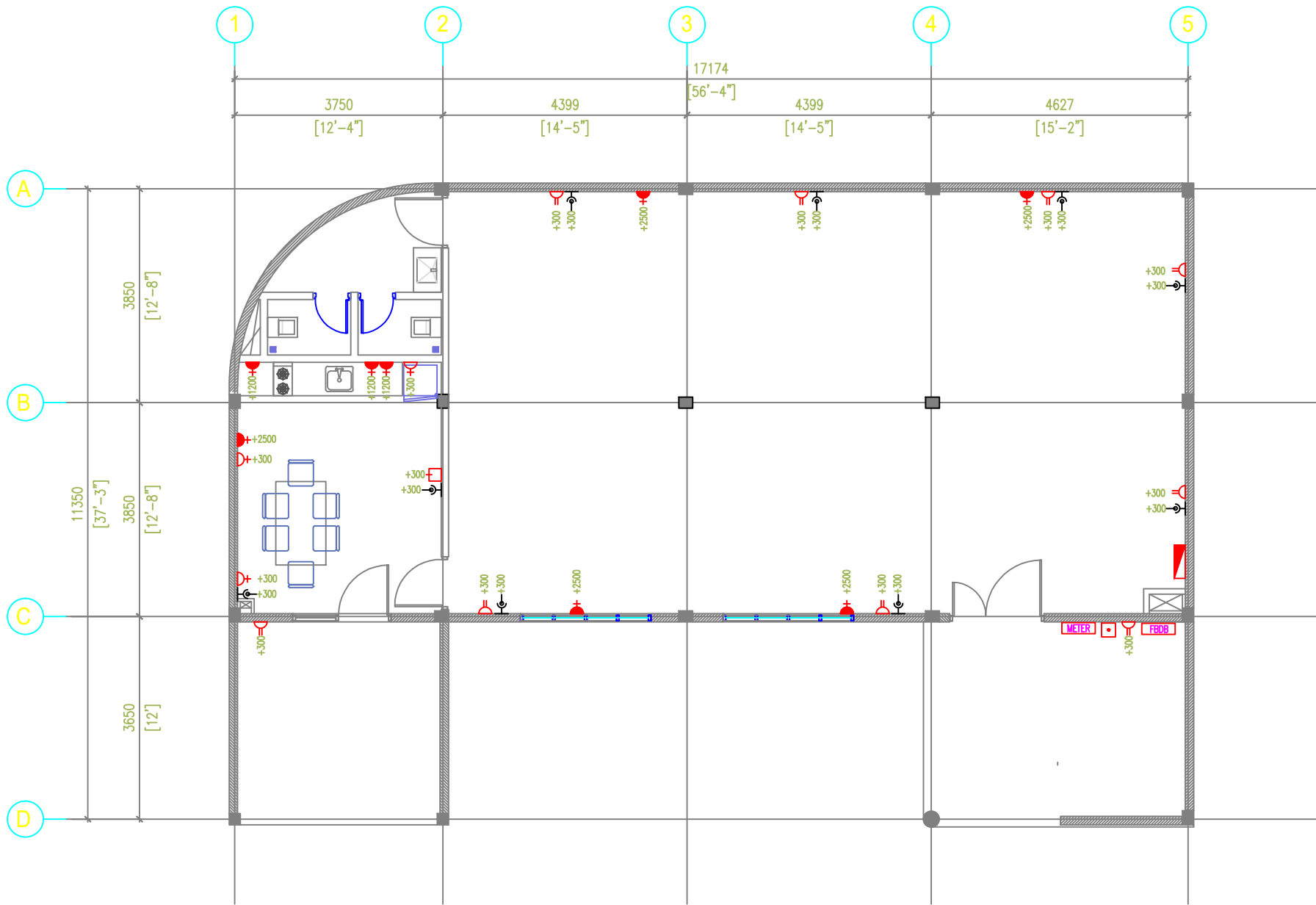
PROJECT:  
**HAA DHAAL ATOLL COUNCIL  
 TRAINING HALL**

CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL

SCALE: AS GIVEN

DATE: SEPTEMBER 2024

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**GROUND FLOOR POWER / NETWORK / SOUND PLAN**  
SCALE 1:100

| ELECTRICAL POWER LEGEND |   |
|-------------------------|---|
| SYMBOL                  | DESCRIPTION                                       |
|                         | SWITCHED SOCKET OUTLET-SINGLE (13A)               |
|                         | SWITCHED SOCKET OUTLET-DOUBLE (13A)               |
|                         | SWITCHED SOCKET OUTLET-SINGLE (15A)               |
|                         | SWITCHED SOCKET OUTLET-SINGLE (13A) ABOVE CEILING |
|                         | SWITCHED SOCKET OUTLET-SINGLE (15A) ABOVE CEILING |
|                         | CABLE TV POINT                                    |
|                         | HDMI PORT   |
|                         | NETWORK POINT                                     |
|                         | 32A ISOLATOR FOR AC OUTDOOR UNIT                  |
|                         | DISTRIBUTION BOARD                                |
|                         | ELECTRICAL METER PANEL BOARD                      |
|                         | EARTH ROD   |
|                         | FIBRE NETWORK DB                                  |
|                         | CEILING RECESSED SPEAKER                          |

- 1- ALL WIRING FOR LIGHT POINTS / POWER POINTS AND CIRCUITS SHALL BE AS PER MALDIVES ENERGY AUTHORITY (MEA) REGULATIONS.
- 2- UNLESS SPECIFIED OTHERWISE IN THE DRAWING, ALL LIGHTS MUST HAVE 1 SWITCH PER LIGHT.
- 3- ALL FIXTURES AND FITTINGS SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO PROCUREMENT.
- 4-BEFORE COMMENCEMENT OF WORK, CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR:
  - CONDUIT PLANS IN RC SLABS.
  - CABLE TRAY LAYOUTS.
  - ALL FIXTURES, FIXINGS AND INSTALLATIONS.
- 5-LOCATION OF SWITCHES AND POWER SOCKETS SHALL BE MARKED ON SITE AND APPROVED BY PROJECT MANAGER BEFORE RELEVANT WALL CUTTING OR CONDUIT ON SITE.
- 6- ALL CONDUITS SHALL BE CLOSED SUCH THAT NO WATER GETS INTO THE CONDUITS, SHALL BE FULLY SEALED. ALL CONDUITS SHALL BE LAID SUCH THAT THE ENDS ARE TURNED DOWN, SO THAT NO WATER GETS INTO THE CONDUIT SYSTEM.
- 7- RECORDS OF CONDUITS LAYOUT AND WIRING DIAGRAM SHALL BE SUBMITTED FOR PM APPROVAL
- 8 - ELECTRICAL DISTRIBUTION BOARDS INTERNAL LAYOUTS AND LOCATION SHALL BE AS PER MEA REGULATIONS
- 9- FOR EACH DB, A DIAGRAM SHALL BE PRODUCED, SHOWING LOCATION OF ALL SOCKETS, LIGHTS, FANS, OTHER FIXTURES & ITS RESPECTIVE CIRCUIT BREAKER TO BE INCLUDED IN MAINTENANCE MANUAL.
- 10- EMERGENCY GENERATOR EXHAUST TO BE LOCATED AS PER THE DRAWING, DIAMETER AS PER ELECTRICAL ENGINEER SPECIFICATIONS. USE APPROPRIATE MATERIAL FOR PIPE AND FIXING SYSTEM FOR PIPE.

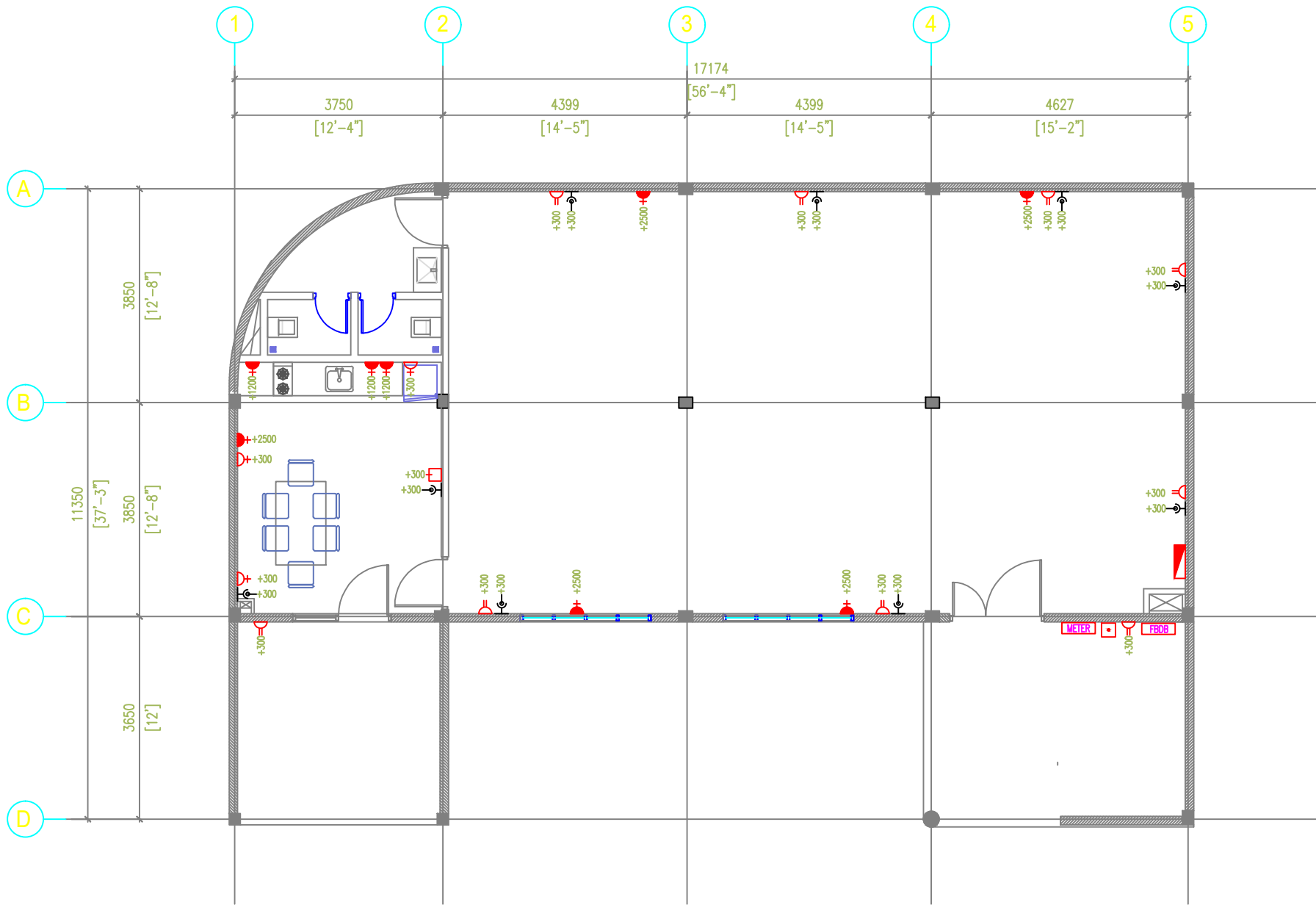
**PROJECT**  
**HAA DHAAL ATOLL COUNCIL**  
**TRAINING HALL**

CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL

SCALE: AS GIVEN

DATE: SEPTEMBER 2024

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**GROUND FLOOR POWER / NETWORK / SOUND PLAN**  
SCALE 1:100

| ELECTRICAL POWER LEGEND |   |
|-------------------------|---|
| SYMBOL                  | DESCRIPTION                                       |
|                         | SWITCHED SOCKET OUTLET-SINGLE (13A)               |
|                         | SWITCHED SOCKET OUTLET-DOUBLE (13A)               |
|                         | SWITCHED SOCKET OUTLET-SINGLE (15A)               |
|                         | SWITCHED SOCKET OUTLET-SINGLE (13A) ABOVE CEILING |
|                         | SWITCHED SOCKET OUTLET-SINGLE (15A) ABOVE CEILING |
|                         | CABLE TV POINT                                    |
|                         | HDMI PORT   |
|                         | NETWORK POINT                                     |
|                         | 32A ISOLATOR FOR AC OUTDOOR UNIT                  |
|                         | DISTRIBUTION BOARD                                |
|                         | ELECTRICAL METER PANEL BOARD                      |
|                         | EARTH ROD   |
|                         | FIBRE NETWORK DB                                  |
|                         | CEILING RECESSED SPEAKER                          |

- 1- ALL WIRING FOR LIGHT POINTS / POWER POINTS AND CIRCUITS SHALL BE AS PER MALDIVES ENERGY AUTHORITY (MEA) REGULATIONS.
- 2- UNLESS SPECIFIED OTHERWISE IN THE DRAWING, ALL LIGHTS MUST HAVE 1 SWITCH PER LIGHT.
- 3- ALL FIXTURES AND FITTINGS SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO PROCUREMENT.
- 4-BEFORE COMMENCEMENT OF WORK, CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR:
  - CONDUIT PLANS IN RC SLABS.
  - CABLE TRAY LAYOUTS.
  - ALL FIXTURES, FIXINGS AND INSTALLATIONS.
- 5-LOCATION OF SWITCHES AND POWER SOCKETS SHALL BE MARKED ON SITE AND APPROVED BY PROJECT MANAGER BEFORE RELEVANT WALL CUTTING OR CONDUIT ON SITE.
- 6- ALL CONDUITS SHALL BE CLOSED SUCH THAT NO WATER GETS INTO THE CONDUITS, SHALL BE FULLY SEALED. ALL CONDUITS SHALL BE LAID SUCH THAT THE ENDS ARE TURNED DOWN, SO THAT NO WATER GETS INTO THE CONDUIT SYSTEM.
- 7- RECORDS OF CONDUITS LAYOUT AND WIRING DIAGRAM SHALL BE SUBMITTED FOR PM APPROVAL
- 8 - ELECTRICAL DISTRIBUTION BOARDS INTERNAL LAYOUTS AND LOCATION SHALL BE AS PER MEA REGULATIONS
- 9- FOR EACH DB, A DIAGRAM SHALL BE PRODUCED, SHOWING LOCATION OF ALL SOCKETS, LIGHTS, FANS, OTHER FIXTURES & ITS RESPECTIVE CIRCUIT BREAKER TO BE INCLUDED IN MAINTENANCE MANUAL.
- 10- EMERGENCY GENERATOR EXHAUST TO BE LOCATED AS PER THE DRAWING, DIAMETER AS PER ELECTRICAL ENGINEER SPECIFICATIONS. USE APPROPRIATE MATERIAL FOR PIPE AND FIXING SYSTEM FOR PIPE.

**PROJECT**  
**HAA DHAAL ATOLL COUNCIL**  
**TRAINING HALL**

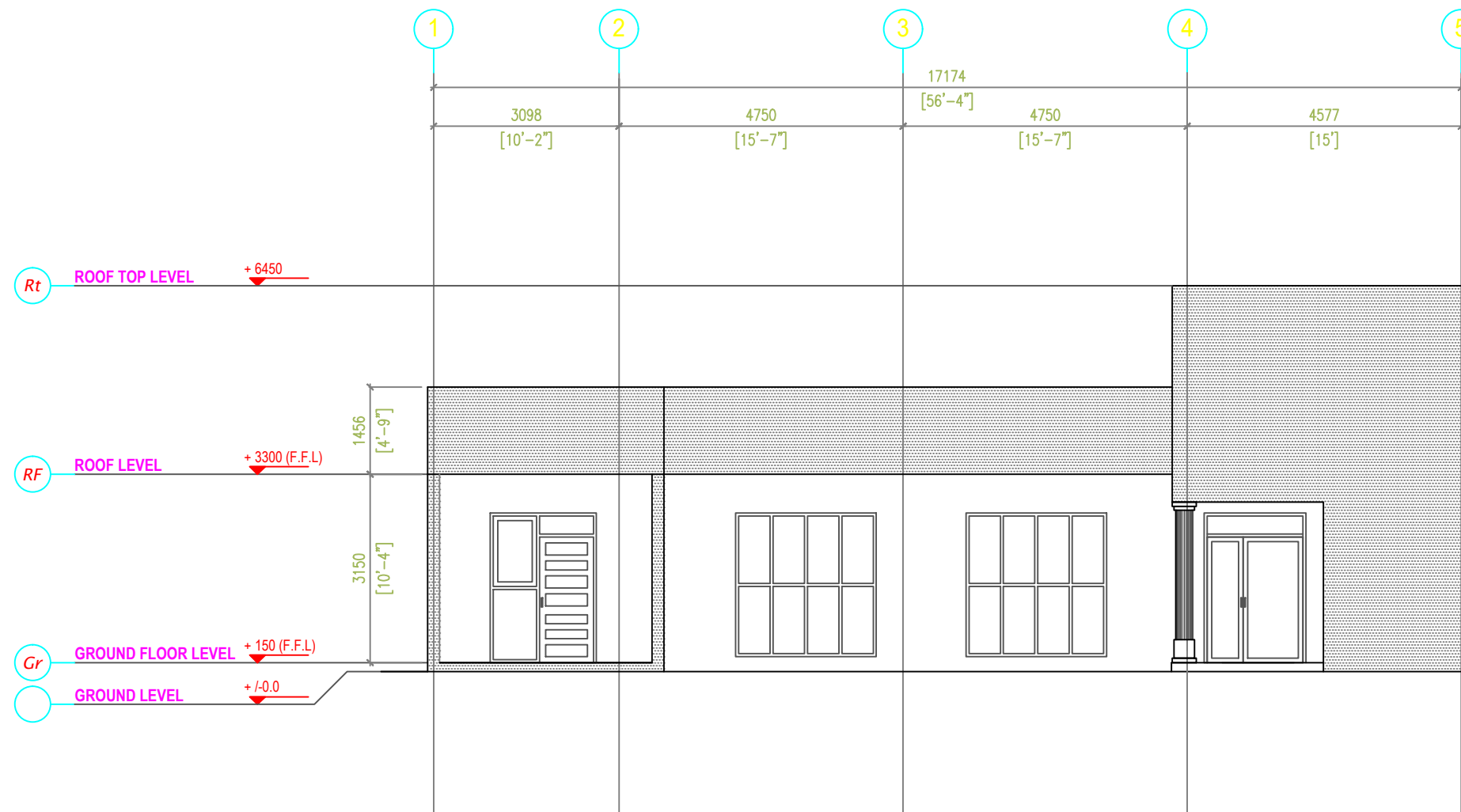
CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL

SCALE: AS GIVEN

DATE: SEPTEMBER 2024

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**ELEVATION-A**  
SCALE 1:100

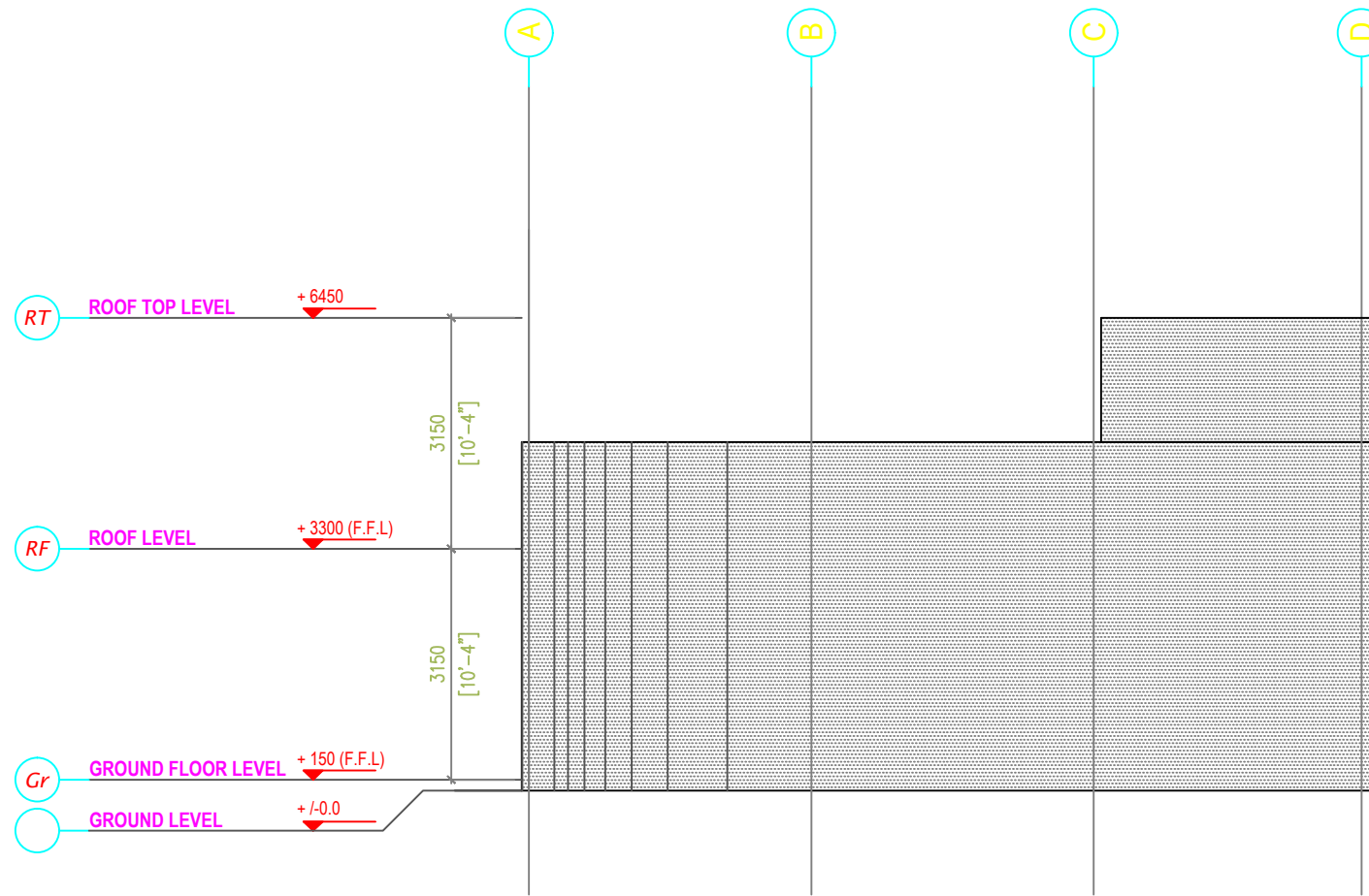
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**ELEVATION-B**  
SCALE 1:100

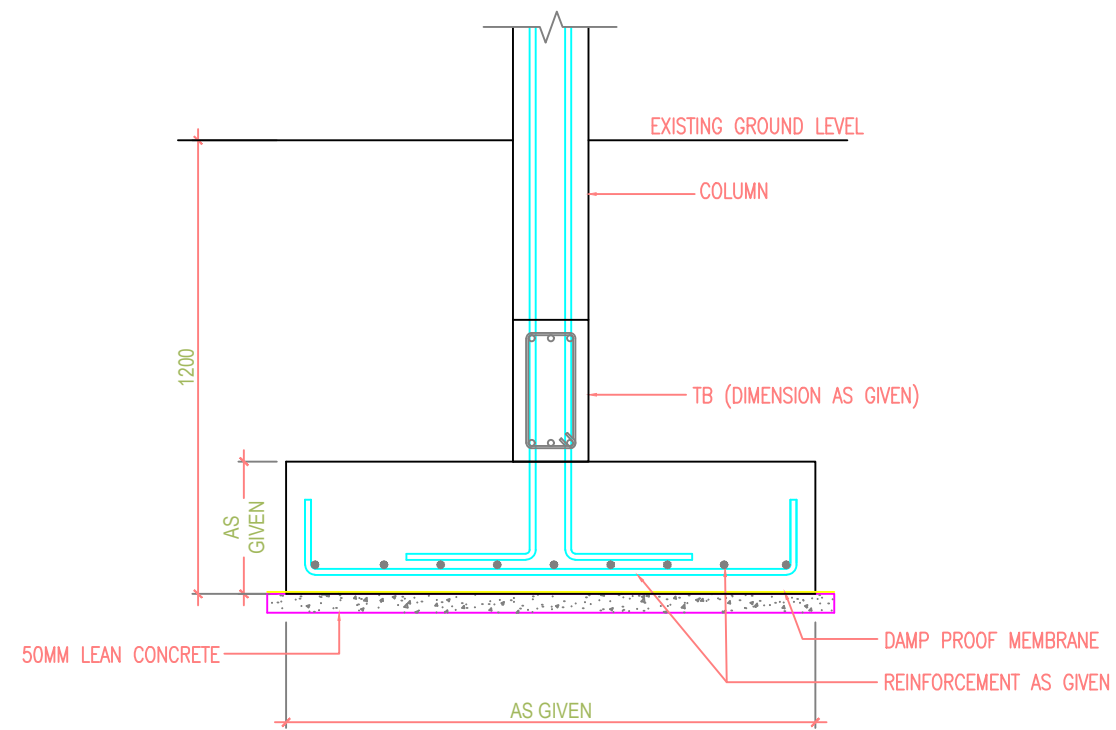
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**FOUNDATION PAD DETAIL**

SCALE 1:20

PROJECT:

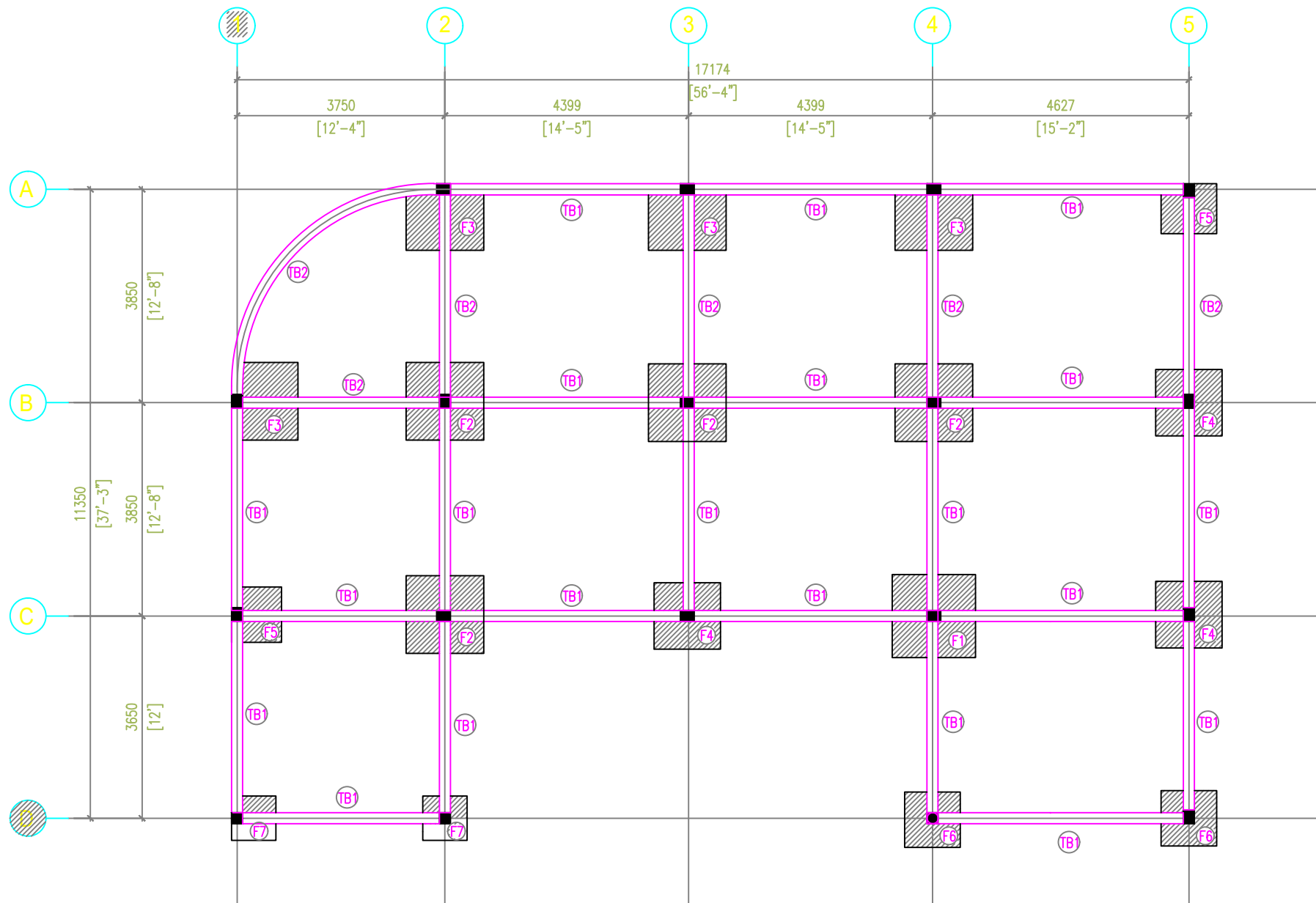
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| FOOTING | SIZE                    | REINFORCEMENT            |
|---------|-------------------------|--------------------------|
| F1      | 1500MM X 1500MM X 300MM | T10 @ 150 C/C B/W BOTTOM |
| F2      | 1400MM X 1400MM X 300MM | T10 @ 150 C/C B/W BOTTOM |
| F3      | 1400MM X 1200MM X 350MM | T12 @ 100 C/C B/W BOTTOM |
| F4      | 1200MM X 1200MM X 300MM | T10 @ 150 C/C B/W BOTTOM |
| F5      | 1000MM X 900MM X 300MM  | T10 @ 100 C/C B/W BOTTOM |
| F6      | 1000MM X 1000MM X 300MM | T10 @ 150 C/C B/W BOTTOM |
| F7      | 800MM X 800MM X 300MM   | T10 @ 150 C/C B/W BOTTOM |

FOUNDATION DEPTH= 1200MM FROM NGL

**FOUNDATION PLAN**  
SCALE 1:100

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## GENERAL PROVISIONS:

1. STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL & ELECTRICAL DRAWINGS, TECHNICAL SPECIFICATIONS AND INSTRUCTIONS ISSUED DURING THE CONSTRUCTION. ANY DISCREPANCIES SHALL BE INFORMED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

2. STRUCTURAL DRAWINGS SHALL NOT BE SCALED. ALL MEASUREMENTS RELEVANT TO THE SETTING OUT AND OFF-SITE SHALL BE VERIFIED BEFORE FABRICATION AND CONSTRUCTION.

3. DURING THE CONSTRUCTION PERIOD THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE STABILITY OF STRUCTURE AND SHALL NOT BE OVERLOADED (OVER STRESSED) BY ANY ACTIVITY.

4. WORKMANSHIP AND MATERIALS SHALL BE, UNLESS OTHERWISE, STATED TO MALDIVIAN CODE OF PRACTICE OR RELEVANT BRITISH CODE, INCLUDING ALL AMENDMENTS AND THE AMENDMENTS AND THE LOCAL STATUTORY AUTHORITIES REGULATIONS, UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENT.

5. CONTRACTOR SHALL PRODUCE NECESSARY SHOP DRAWINGS AND SPECIFICATIONS FOR APPROVAL OF THE ENGINEER.

6. ALL THE DIMENSIONS OF THE STRUCTURAL DRAWINGS ARE IN MILLIMETERS AND ALL THE LEVELS ARE IN METRES.

7. REINFORCED CONCRETE DESIGNS ARE BASED ON BS8110 / BS EN 1992-1-1

8. STEEL FRAMING HAS BEEN DESIGNED AS PER BS5950

9. REFER TO STANDARD AND TYPICAL DETAILS AS SHOWN IN TYPICAL DRAWINGS FOR DETAILS SPECIFICALLY NOT SHOWN.

10. ALL FORM WORK AND PROPS PROVIDED FOR BEAMS, SLABS AND WALLS, IF ANY, SHALL BE REMOVED COMPLETELY, TO THE SATISFACTION OF THE CONSULTANT, BEFORE ANY MASONRY WALLS OR OTHER PERMANENT LOADING ON THE SLAB DONE.

11. ALL NON-LOAD BEARING WALLS SHALL BE KEPT CLEAR OFF THE UNDERSIDE OF SLAB BY 30MM. THE JOINT SHALL BE FILLED WITH FIBER BOARD WITH EXPEDITE PRESSED METAL COVERING BOTH SIDE OF THE JOINT. AND THE METAL COVERING SHALL BE FIXED TO THE OFFSITE OF THE BEAM OR SLAB AS THE CASE MAY BE.

12. UNLESS OTHERWISE NOTED ALL PARTITIONS SHALL BE SOLID BLOCK WALLS WITH DIMENSIONS 50X100X200 WITH WIDTH OF BLOCK WORK AS 100 FOR ALL THE INTERNAL WALLS.

13. ALL FORM WORK USED FOR CONCRETING SHALL BE PROPERLY CLEANED, ALIGNED AND SHALL HAVE LEVEL SURFACE.

14. APPROVED QUALITY FORM OIL SHALL BE APPLIED TO ALL FORM BEFORE CONCRETING, IF THE FORM SURFACE IS NOT SMOOTH.

15. APPROPRIATE WATER PROOFING ADMIXTURES SHALL BE USED WHENEVER REQUIRED WITH APPROVAL OF THE ENGINEER TO CONCRETE BELOW GROUND, SLABS AT WET AREAS AND TERRACES.

16. TO FIX FORM WORK TO THE STRUCTURE OR FOR ANY OTHER REASONS NO NAILS OR STUDS SHALL BE DRIVEN TO HARDENED CONCRETE.

17. COLUMN SETTING LAYOUT IS BASED ON PLOT DIMENSIONS IN LEGAL DEED. ACTUAL SITE MAY DIFFER IN LINEAR AS WELL AS ANGULAR DIMENSIONS. THE CONTRACTOR MUST LOCATE ALL THE COLUMNS (AS PER THE COLUMN SETTING OUT) ON THE LEAN CONCRETE SURFACE AND GET APPROVAL FOR THE SETTING OUT BEFORE PROCEEDING WITH ANY REINFORCEMENT WORKS.

18. THE ALIGNMENT OF COLUMN FACE MEETING THE ADJACENT BOUNDARY SHALL BE ADJUSTED TO ALLOW REQUIRED FINISHES ON THE BOUNDARY (IF CEMENT RENDERING IS REQUIRED, 25MM SHALL BE ALLOWED)

19. ALL STRUCTURAL TIMBER SHALL BE OF GRADE D35 (EN 338)OR HIGHER SPECIFICATION, ANY TIMBER NOT MEETING THIS SPECIFICATION SHALL BE REJECTED

## CONCRETE:

1. UNLESS OTHERWISE STATED SPECIFICALLY, ALL IN-SITU STRUCTURAL CONCRETE SHALL HAVE MINIMUM 28 DAYS CUBE STRENGTH OF 25N/MM2.

2. ALL PLAIN CONCRETE (OR BLINDING, OR LEAN) SHALL HAVE MINIMUM 28 DAYS STRENGTH OF 15N/MM2, UNLESS MIX RATIOS ARE GIVEN.

3. MINIMUM CLEAR COVERS (MM) TO ALL REINFORCEMENT, UNLESS OTHERWISE STATED.

| ELEMENT        | REQUIRED COVER (MM)                 |
|----------------|-------------------------------------|
| FOUNDATION     | 50                                  |
| COLUMN         | 40 (30 FOR CIRCULAR COLUMNS)        |
| BEAMS          | 30                                  |
| SUSPENDED SLAB | 25 (FOR INDOOR)<br>30 (FOR OUTDOOR) |
| WALLS          | 40 (FOR OUTDOOR)<br>25 (FOR INDOOR) |

4. NO OPENING, HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE IN THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.

5. CONTRACTION AND EXPANSION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER.

6. PRE-CAMBER TO BEAMS AND SLABS SHALL BE NOT LESS THAN SPAN/240 UNLESS OTHERWISE STATED

7. NO ELECTRICAL CONDUIT AND PIPES ARE TO BE CAST IN COLUMNS OR THROUGH BEAMS WITHOUT PRIOR CONSENT OF THE ENGINEER.

8. SPECIAL RULES FOR CONCRETING IN HOT WEATHER SHALL BE FOLLOWED FOR THE WORK DONE DURING THE DAY.

9. NO CONCRETE WORK SHALL BE CONTINUED DURING HEAVY RAINS. TIMING OF CONCRETING SHALL BE SET BY OBSERVING CLEAR WEATHER AND IF SUFFICIENT PERIOD OF TIME IS AVAILABLE FOR THE WORK.

10. CONSTRUCTION SUPPORT IS TO BE LEFT IN PLACE AS INDICATED ON THE DRAWINGS AND WHERE NEEDED TO AVOID OVER STRESSING THE STRUCTURE. THE CONTRACTOR SHALL SUBMIT PROPOSALS FOR PROPPING STRUCTURE TOGETHER WITH THE METHOD STATEMENT AND CONSTRUCTION LOAD TO THE ENGINEER BEFORE ANY WORK IS COMMENCED. CONTRACTOR SHALL ENSURE THAT PROPPING TO THE FRAMES WALLS REMAIN IN PLACE UNTIL CONCRETE TEST RESULT HAS ATTAINED THE SPECIFIED CONCRETE STRENGTH AND TO THE SATISFACTION OF THE ENGINEER.

11. SHEAR KEY SHALL BE PROVIDED AT ALL CONSTRUCTION JOINTS.

12. MIXING TIME FOR EACH BATCH OF CONCRETE SHALL NOT BE LESS THAN 3 MINUTES

13. CONCRETE SHALL BE CURED WITH WATER OR CURING MEMBRANE UP TO 7 DAYS OR LONGER IF INSTRUCTED BY THE ENGINEER.

14. APPROPRIATE BONDING AGENT SHALL BE APPLIED TO THE OLD CONCRETE WHEREVER NEW CONCRETE IS REQUIRED TO JOIN WITH OLD CONCRETE.

15. ALL THE SERVICES REQUIRED TO EMBEDDED INTO THE CONCRETE SHALL BE PROVIDED POURING OF CONCRETE.

16. OPENING IN SLABS LESS THAN 150X150MM BARS SHALL BE PRE-ARRANGED AROUND THE OPENING.

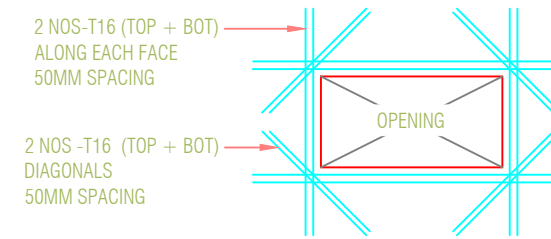
17. FOR OPENING GREATER THAN 300MMX 300MM BUT LESS THAN 600MM X 600MM PROVIDE 2T12 TOP AND BOTTOM ALONG EACH SIDE AND DIAGONAL AT CORNERS UNLESS OTHERWISE DETAILED. AMOUNT OF BARS DISCONNECTED SHALL BE PLACED AT THE RESPECTIVE SIDES.

18. OPENING GREATER THAN 600MM X 600MM AND NOT SHOWN ON THE PLAN SHALL BE APPROVED BY THE ENGINEER. FOR OPENING GREATER THAN 600MM X 600MM SHOWN IN THE PLAN PROVIDE 2 T16 TOP AND BOTTOM ALONG EACH SIDE AND 2T16 DIAGONALS AT CORNERS UNLESS OTHERWISE DETAILED (REFER TO TYPICAL TRIMMER BAR DETAILS)

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TYPICAL TRIMMER BAR DETAILS AT OPENINGS

## FOUNDATIONS:

1. ALL FOUNDATIONS HAVE BEEN DESIGNED FOR A SAFE BEARING CAPACITY OF 150KN/M2. CONTRACTOR SHALL MAKE PROVISION FOR CONSULTANT TO ASSESS SOIL CONDITIONS VISUALLY OR BY ANY OTHER MEANS NECESSARY BEFORE COMMENCING WORKS.

2. ALL FOOTINGS SHALL BE PLACED MINIMUM 1.2M FROM NATURAL GROUND LEVEL. UNLESS STATED STATED IN TYPICAL SECTION (G)

3. METHOD OF SHORING, EXCAVATION, FRAMEWORK, LAYING OF REINFORCEMENT, CONCRETING SHALL BE APPROVED BY THE CONSULTANT.

4. BACKFILLING SHOULD BE DONE WITH APPROVED MATERIAL AND SOURCE, BY THE CONSULTANT. BACKFILLING SOIL TO HAVE MINIMUM DRY DENSITY OF 1600KG/M3

5. WEAK POCKETS FOUND BELOW THE ASSUMED FOUNDATION LEVEL SHALL BE REMOVED AND REPLACED WITH GOOD SOIL OR PLAIN CONCRETE.

6. IN CASE WATER IS PRESENT ABOVE FOUNDATION LEVEL, DEWATERING SHALL BE APPROVED BY THE ENGINEER AS WELL AS LOCAL AUTHORITY BEFORE EXECUTING ON SITE.

7. THE CONTRACTOR SHALL MAINTAIN DRY WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD.

8. NO BACKFILLING SHALL BE PLACED AGAINST WALLS RETAINING EARTH UNLESS THE WALLS ACHIEVE SUFFICIENT STRENGTH TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE.

9. UNLESS OTHERWISE SHOWN ALL SPREAD FOOTINGS, IF ANY, ARE CONCENTRIC TO COLUMNS

10. APPROPRIATE TERMITE PROTECTION SHALL BE PROVIDED, UNLESS SPECIFICALLY REMOVED FROM THE CONTRACT.

11. APPROVED WATER PROOFING TO BE PROVIDED ON ALL UNDERGROUND STRUCTURES, WATER PROOFING MEMBRANE SHALL BE PROVIDED ON TOP OF THE LEAN CONCRETE.

12. ALL COLD JOINTS SHALL HAVE APPROVED WATER BAR

13. RETAINING WALLS, CONCRETE OR IF MASONRY MINIMUM 200MM THICK UPTO PLINTH LEVEL SHALL BE PROVIDED ALL AROUND THE PERIMETER OF THE PLOT

14. FOR SLAB ON GRADE AT GROUND LEVEL, IF NO SPECIFIC DRAWINGS ARE PROVIDED, ADOPT 100MM THICK GROUND SLAB WITH R6-100 MESH THROUGHOUT, FOR HEAVILY LOADED AREAS (COMMERCIAL AREAS, GARAGES, STORAGE AREAS, INDUSTRIAL USAGE, AREAS OF CONGREGATION ETC.) USE 150MM THICK GROUND SLAB WITH T10@150 C/C MESH THROUGHOUT.

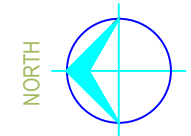
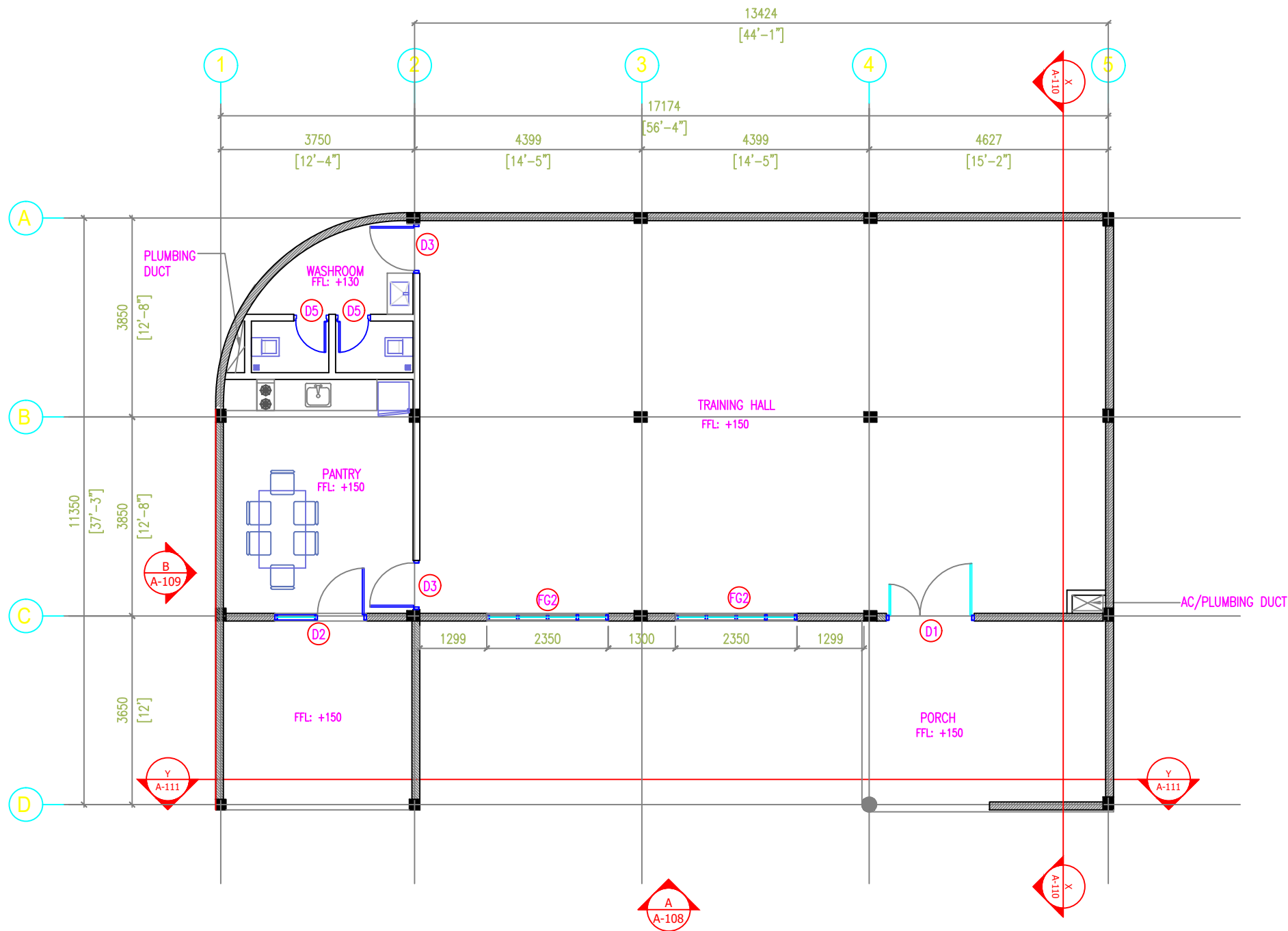
15. FOR MANHOLES OR SIMILAR PENETRATIONS OF GROUND SLAB, IF NO SPECIFIC DRAWINGS ARE PROVIDED, ADOPT 600X600 SIZES IN PLAN WITH 100MM THICKNESS WITH T10 MESH. ADJUST THE HEIGHT OF MANHOLES TO SUIT THE SLOPE AND CAPACITY. ALL PITS SHALL HAVE ACCESSIBLE MAINTENANCE OPENINGS FLUSH WITH FLOOR FINISH LEVEL

16. PRIOR TO LEAN CONCRETING OR ANY ON-GRADE SLAB WORKS, BACKFILLING TO BE DONE IN LAYERS NOT EXCEEDING 300MM THICKNESS AND 95% MAXIMUM DRY DENSITY SHALL BE ACHIEVED FOR EACH LAYER BEFORE FILLING THE SUCCESSIVE LAYER UPTO THE REQUIRED LEVEL

17. FOR SLAB ON GRADE AT GROUND LEVEL, IF NO SPECIFIC DRAWINGS ARE PROVIDED, ADOPT 100MM THICK GROUND SLAB WITH R6-100 MESH THROUGHOUT, FOR HEAVILY LOADED AREAS (COMMERCIAL AREAS, GARAGES, STORAGE AREAS, INDUSTRIAL USAGE, AREAS OF CONGREGATION ETC.) USE 150MM THICK GROUND SLAB WITH T10@150 C/C MESH THROUGHOUT.

18. FOR MANHOLES OR SIMILAR PENETRATIONS OF GROUND SLAB, IF NO SPECIFIC DRAWINGS ARE PROVIDED, ADOPT 600X600 SIZES IN PLAN WITH 100MM THICKNESS WITH T10 MESH. ADJUST THE HEIGHT OF MANHOLES TO SUIT THE SLOPE AND CAPACITY. ALL PITS SHALL HAVE ACCESSIBLE MAINTENANCE OPENINGS FLUSH WITH FLOOR FINISH LEVEL

19. PRIOR TO LEAN CONCRETING OR ANY ON-GRADE SLAB WORKS, BACKFILLING TO BE DONE IN LAYERS NOT EXCEEDING 300MM THICKNESS AND 95% MAXIMUM DRY DENSITY SHALL BE ACHIEVED FOR EACH LAYER BEFORE FILLING THE SUCCESSIVE LAYER UPTO THE REQUIRED LEVEL



**NOTE:**

- 100MM THICK SOLID BLOCK WALL  
EXTERIOR PLASTER=25MM  
INTERIOR PLASTER=15MM
- 100MM THICK HOLLOW BLOCK WALL  
PLASTER=15MM ON BOTH SIDES

**GROUND FLOOR PLAN**  
SCALE 1:100

**PROJECT:**  
HAA DHAAL ATOLL COUNCIL  
TRAINING HALL

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CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL

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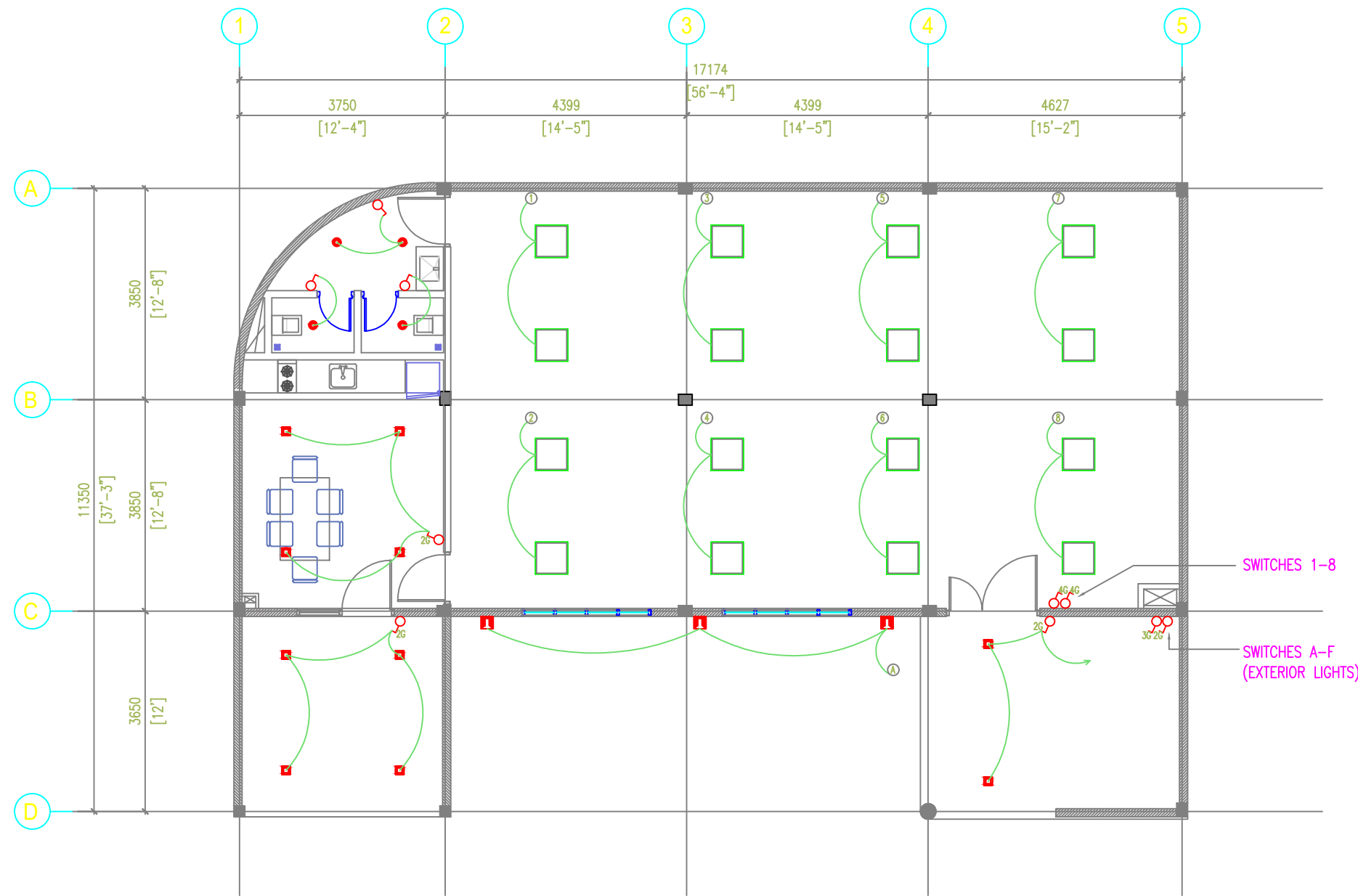
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**GROUND FLOOR LIGHTING PLAN**  
SCALE 1:100

| ELECTRICAL LIGHTING LEGEND |   |
|----------------------------|---|
| SYMBOL                     | DESCRIPTION                                   |
|                            | CEILING MOUNT LED LIGHT (600X600MM)           |
|                            | CEILING RECESSED/SOFFIT MOUNT LED LIGHT (18W) |
|                            | CEILING RECESSED/SOFFIT MOUNT LED LIGHT (12W) |
|                            | LIGHT SWITCH                                  |
|                            | WALL RECESSED OUTDOOR LIGHT                   |
|                            | WALL MOUNTED SPOT LIGHT                       |

**NOTES:**

- 1- ALL WIRING FOR LIGHT POINTS / POWER POINTS AND CIRCUITS SHALL BE AS PER MALDIVES ENERGY AUTHORITY (MEA) REGULATIONS.
- 2- UNLESS SPECIFIED OTHERWISE IN THE DRAWING, ALL LIGHTS MUST HAVE 1 SWITCH PER LIGHT.
- 3- ALL FIXTURES AND FITTINGS SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO PROCUREMENT.
- 4- BEFORE COMMENCEMENT OF WORK, CONTRACTOR TO PRODUCE SHOP DRAWINGS FOR:
  - CONDUIT PLANS IN RC SLABS.
  - CABLE TRAY LAYOUTS.
  - ALL FIXTURES, FIXINGS AND INSTALLATIONS.
- 5- LOCATION OF SWITCHES AND POWER SOCKETS SHALL BE MARKED ON SITE AND APPROVED BY PROJECT MANAGER BEFORE RELEVANT WALL CUTTING OR CONDUIT ON SITE.
- 6- ALL CONDUITS SHALL BE CLOSED SUCH THAT NO WATER GETS INTO THE CONDUITS, SHALL BE FULLY SEALED. ALL CONDUITS SHALL BE LAID SUCH THAT THE ENDS ARE TURNED DOWN, SO THAT NO WATER GETS INTO THE CONDUIT SYSTEM.
- 7- RECORDS OF CONDUITS LAYOUT AND WIRING DIAGRAM SHALL BE SUBMITTED FOR PM APPROVAL.
- 8- ELECTRICAL DISTRIBUTION BOARDS INTERNAL LAYOUTS AND LOCATION SHALL BE AS PER MEA REGULATIONS.
- 9- FOR EACH DB, A DIAGRAM SHALL BE PRODUCED, SHOWING LOCATION OF ALL SOCKETS, LIGHTS, FANS, OTHER FIXTURES & THE CIRCUIT BREAKER TO BE INCLUDED IN MAINTENANCE MANUAL.

**PROJECT:**

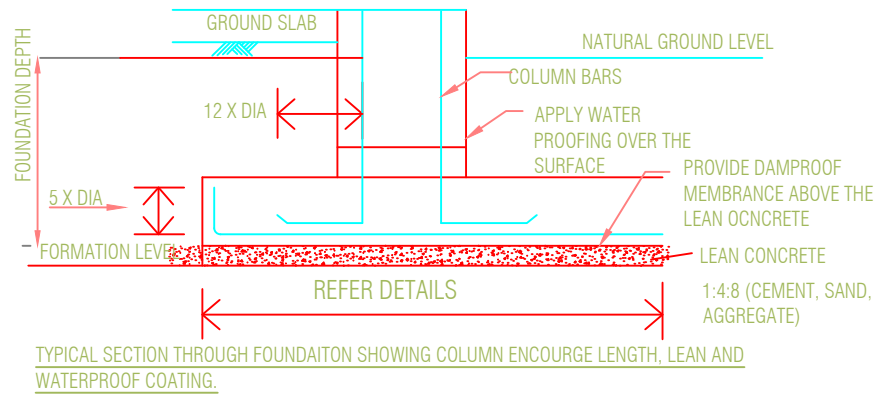
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## REINFORCEMENT:

- REINFORCING STEEL SHALL BE HIGH STRENGTH DEFORMED BARDS CONFORMING TO BS-4449 WITH MINIMUM YIELD STRENGTH OF 460N/mm<sup>2</sup>, GRADE 460.
  - SPLICES IN REINFORCEMENTS BE MADE ONLY THE POSITION SHOWN OR AS OTHERWISE APPROVED BY THE THE ENGINEER.
  - UNLESS OTHERWISE SHOWN TEMPERATURE REINFORCEMENT SHALL BE PROVIDED AT RIGHT ANGLES TO THE MAIN REINFORCEMENT IN ONEWAY SLAB.
  - 25MM SPACER BARS SHALL BE PROVIDED AT 1000MM CENTERS WHEREVER REINFORCEMENT IS PLACES IN MORE THAN ONE LAYER.
  - WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED. IF WELDING IS UNAVOIDABLE, IT SHALL BE APPROVED BY THE ENGINEER.
  - ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITIONS DURING CONCRETING BY APPROVED BARS, SPACES, CHAIRS OR SUPPORT BARS.
  - MINIMUM TENSION LAP LENGTH = 45 X BAR DIA & MINIMUM COMPRESSION DEVELOPMENT LENGTH = 30 X DIA
  - FOR HORIZONTAL REINFORCEMENT (MEMBER THICKNESS LESS THAN 300MM) TENSION REINFORCEMENT DEVELOPMENT OR SPLICE LENGTH (MINIMUM) = 60 X DIA.
  - WHEN BARS ARE IN BUNDLE, MULTIPLY CLAUSES 7 TO 9 BY 1.2 FOR THREE-BAR BUNDLE AND 1.33 FOR FOUR-BAR BUNDLE.
  - THE FOLLOWING MINIMUM PERCENTAGE OF REINFORCEMENT WITH RESPECT OF CROSS-SECTIONAL AREA SHALL BE MAINTAINED FOR ALL THE CONCRETE MEMBERS.
- |              |  |
|--------------|--|
| 11.1 BEAM    | 0.33% AT THE TOP AND BOTTOM FACE                                     |
| 11.2 SLAB    | 0.18% AT TOP AND BOTTOM FACE EACH WAY AT NEGATIVE AND POSITIVE ZONE. |
| 11.3 COLUMN  | 1% OF THE GROSS SECTION  |
| 11.4 WALL    | 0.18% ALONG HORIZONTAL AND VERTICAL DIRECTION OF EACH FACE           |
| 11.5 FOOTING | 0.25% AT THE TOP AND BOTTOM FACE BOTH DIRECTIONS                     |
- AT LEAST TWO BARS SHALLBE PROVIDED AT THE TOP AND BOTTOM CONTINUOUSLY.
  - IN LAPS SPLICES AREA, STIRRUPS SPACING SHALL NOT EXCEED D/4.
  - ALL REINFORCING BARS SHALL BE NEW AND OF GOOD QUALITY WITHOUT RUST ON THE SURFACE. IF SURFACE RUST HAS APPEARED DUE TO EXPOSURE TO THE WEATHER OR DUE TO THE DELAY IN CONCRETING, SUCH BARS SHALL BE CLEANED WITH WIREBRUSH, TO THE SATISFACTION OF THE ENGINEER.
  - DIAMETERS OF THE BARS ARE ITS NOMINAL DIAMETER EXCLUDING DEFORMATION. NO BAR SHALL BE REPLACED WITH EQUIVALENT ANOTHER BAR DIAMETER UNLESS APPROVED BY THE ENGINEER.
  - BENDING OF DEFORMED BARDS WILL BE ALLOWED ONCE. BAR ARE NOT ALLOWED TO BEND, STRAIGHT AND REBEND. SUCH BARS MAY NOT PERFORM WELLAND ARE SUBJECT REJECTION BY THE ENGINEER.
  - UNLESS OTHERWISE STATED ALL BENDING SHALL BE DONE TO BS4466-1 AND BS4466-2 OR AS DIRECTED BY THE ENGINEER.

17. ANCHORAGE LENGTHS SHALL BE AT LEAST EQUAL TO OR GREATER THAN:

- THE EFFECTIVE DEPTH OF THE MEMBER
- TWELVE TIME THE BAR SIZE.

18. BAR LAYER NOTATION:

|                     |    |
|---------------------|----|
| TOP LAYER           | T1 |
| TOP SECOND LAYER    | T2 |
| BOTTOM SECOND LAYER | B2 |
| BOTTOM OUTER        | B1 |

19. CHAIRS SUPPORT THE TOP REINFORCEMENT. WHERE SPECIFIED, TRADITIONAL BENT CHAIRS OF SHAPE CODE 83 SHOULD BE SCHEDULED USING THE FOLLOWING GUIDELINES.

- BAR SIZE FOR SLAB LESS THAN 200MM THICK - 10MM
- BAR SIZE FOR SLAB GREATER THAN 200MM THICK - 12MM
- LOCATION WITHIN THE PANEL - ALONG PERIPHERY OF 0.1 SPAN
- ADDITIONAL LOCATION FOR FLAT SLAB - ALONG INTERIOR SUPPORTS
- SPACING OF CHAIRS (AND SPACERS) - 1M

20.DISTRIBUTION STEEL,IF NOT SPECIFIED ELSEWHERE, USE T10-300 FOR ALL SLAB

21.ALL REINFORCEMENT ARE DISCONTINUOUS OVER VOIDS

## FORMWORK

1. FORMWORK SHALL BE STANDARD COATED OR PLYWOOD MATERIAL WITH MINIMUM OF 12MM THICKNESS WITH TIMBER FRAMING STRONG ENOUGH TO HOLD WET CONCRETE IN PLACE BASED ON POURING DEPTH AND SIZE OF THE MEMBER. THE FORMWORK SHALL BE APPROVED BY THE CONSULTANT PRIOR TO POURING OF CONCRETE

2. FORMWORK TO BE DONE TO ACHIEVE THE DIMENSIONS OF CONCRETE ELEMENTS INDICATED IN THE DRAWINGS.

3. THE TOLERANCES FOR FORMWORK BE +/- 3.0 MM.

4. THE FORMWORK SHALL BE CLEANED WITH PRESSURE WATER TO REMOVE ANY LOOSE MATERIAL AND SUBSEQUENTLY, WATER ACCUMULATED IN THE FORM SHALL BE REMOVED BEFORE POURING OF CONCRETE.

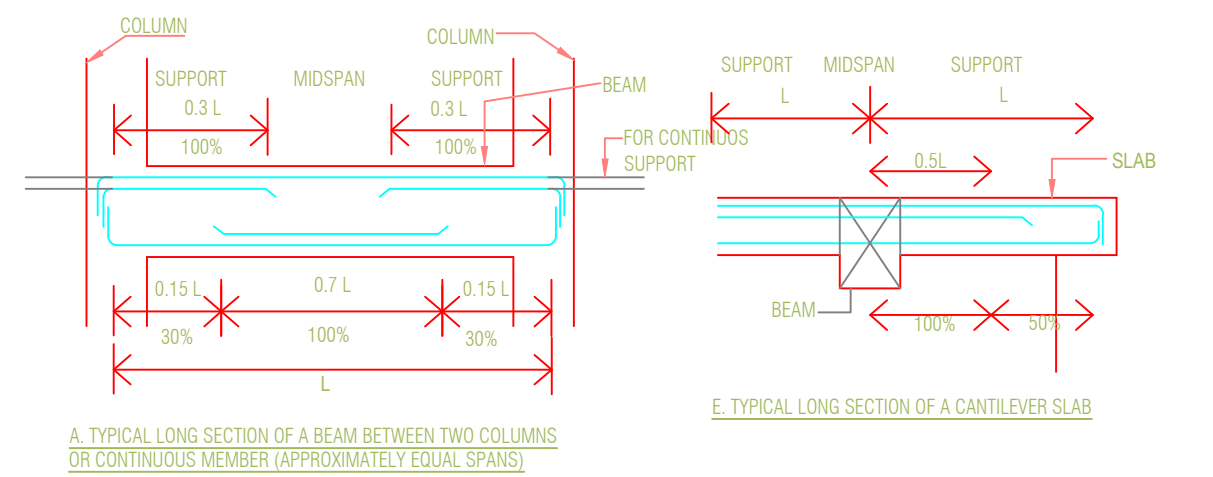
5. DAMAGED OR DEFECTIVE FORMWORK SHALL NOT BE USED IN WORKS.

6. THE MINIMUM PERIOD FOR KEEPING THE FORMS IN POSITION AND FOR WATERING AFTER LAYING THE CONCRETE SHALL BE:

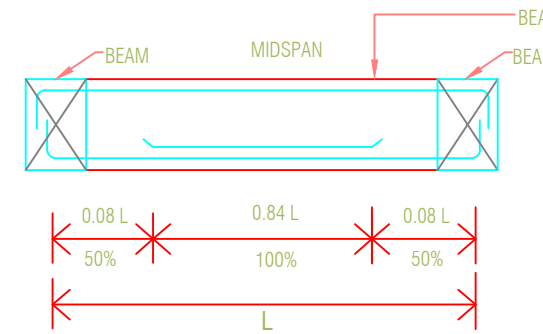
|                                   |         |
|-----------------------------------|---------|
| VERTICAL SIDES OF BEAMS, COLUMNS: | 2 DAYS  |
| SLAB SOFFITS:                     | 10 DAYS |
| BEAM SOFFITS:                     | 21 DAYS |
| CANTILEVERS:                      | 28 DAYS |

7. FORMS SHALL BE REMOVED IN SUCH A MANNER AS TO ENSURE THE COMPLETE SAFETY OF THE STRUCTURE, SO THAT THERE IS NO SHOCK OR VIBRATION AS WOULD DAMAGE THE REINFORCED CONCRETE.

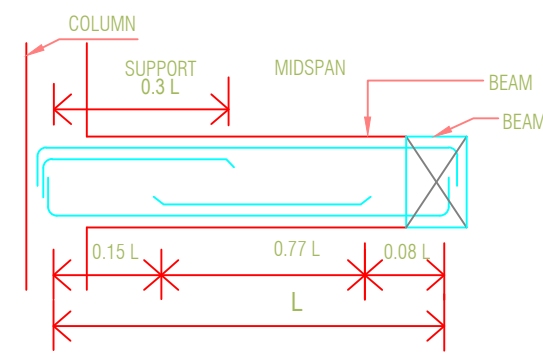
8. AT THE REMOVAL OF FORM IF CONCRETE FOUND TO HAVE A DEFECT, SUCH DEFECT SHALL NOT BE COVERED UNTIL THE DEFECT(S) INSPECTED BY THE PROJECT MANAGER AND INSTRUCTED TO PROCEED.



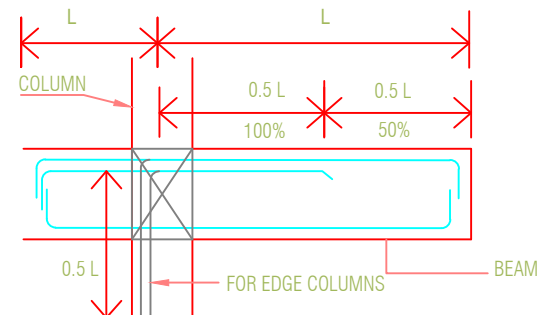
A. TYPICAL LONG SECTION OF A BEAM BETWEEN TWO COLUMNS OR CONTINUOUS MEMBER (APPROXIMATELY EQUAL SPANS)



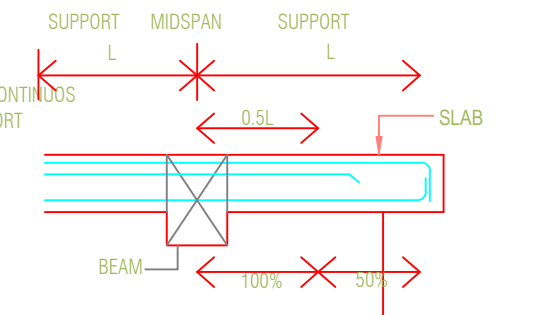
B. TYPICAL LONG SECTION OF A BEAM; SUPPORTED ON TWO BEAMS



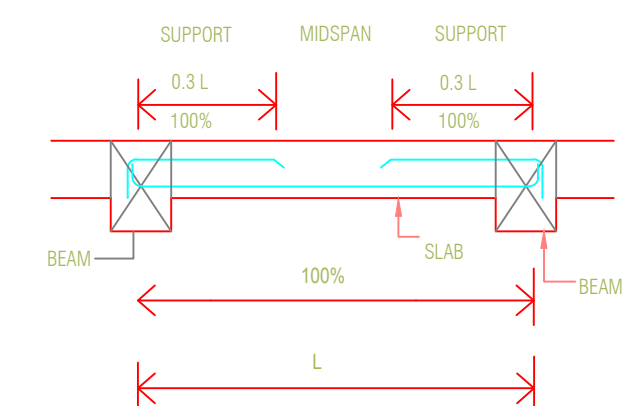
C. TYPICAL LONG SECTION; SUPPORTED ON A COLUMN AND BEAM



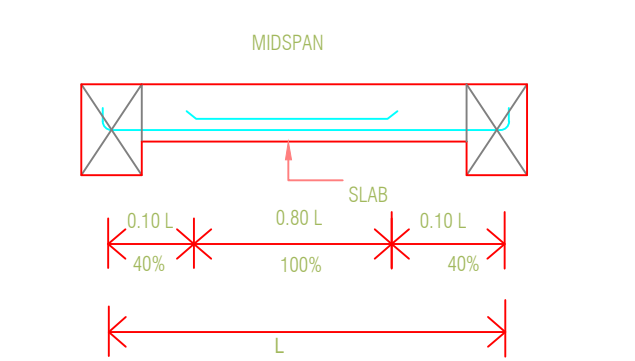
D. TYPICAL LONG SECTION OF A CANTILEVER BEAM



E. TYPICAL LONG SECTION OF A CANTILEVER SLAB



F. TYPICAL LONG SECTION OF A SLAB BETWEEN TWO BEAMS OR CONTINUOUS MEMBER (APPROXIMATELY EQUAL SPANS)



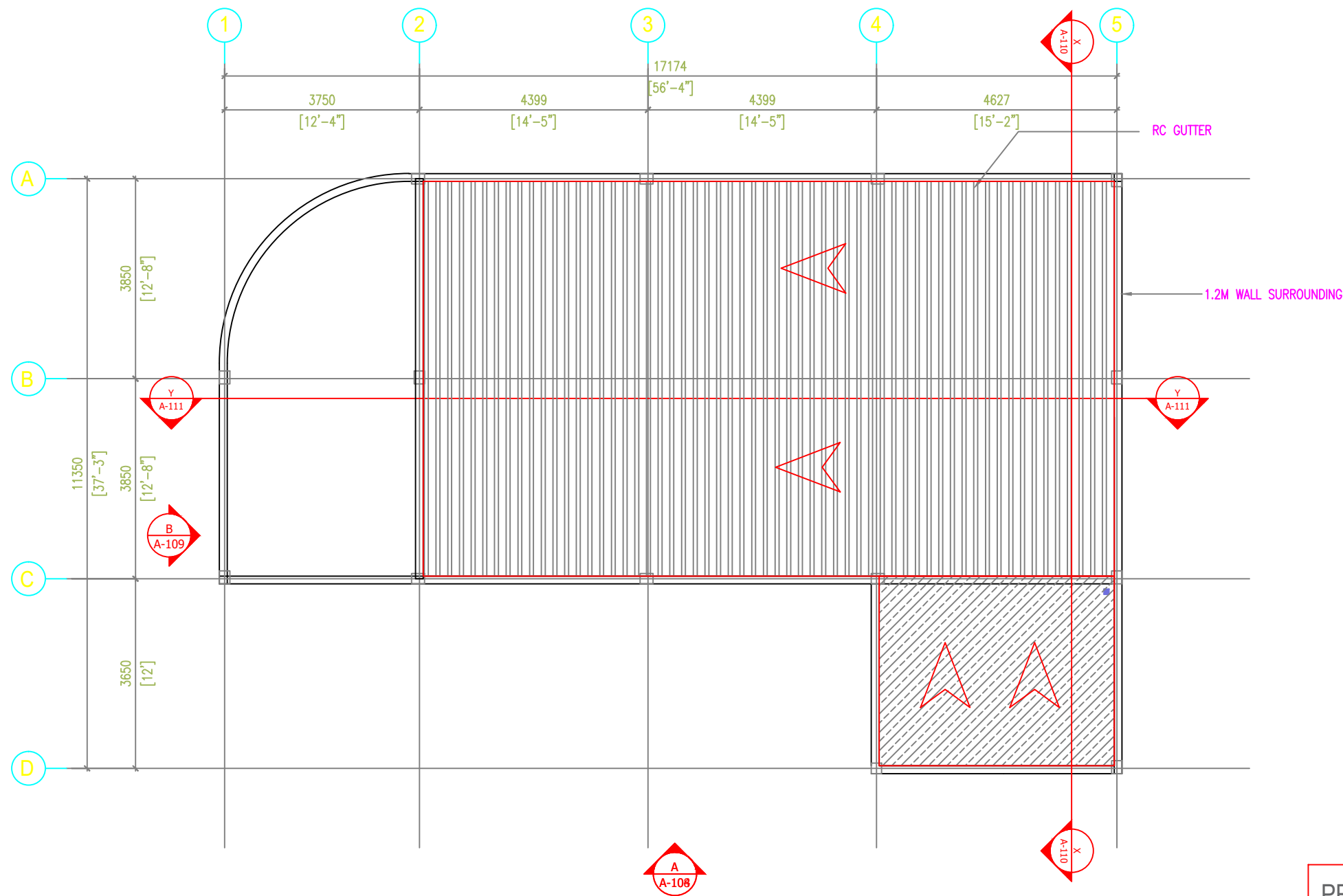
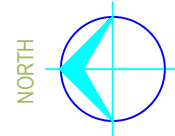
G. TYPICAL LONG SECTION OF A SLAB; SUPPORTED ON TWO BEAMS

SLAB

BEAM

|   |
|---|
| PROJECT:<br><b>HAA DHAAL ATOLL COUNCIL TRAINING HALL</b>  |
| CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL  |
| SCALE: AS GIVEN   |
| DATE: SEPTEMBER 2024  |
| THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS , SPECIFICATIONS, REPORTS AND DRAWINGS. CONTRACTORS SHALL WORK FROM FIGURED DIMENSION ONLY. CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE. |





**ROOF PLAN**  
SCALE 1:100

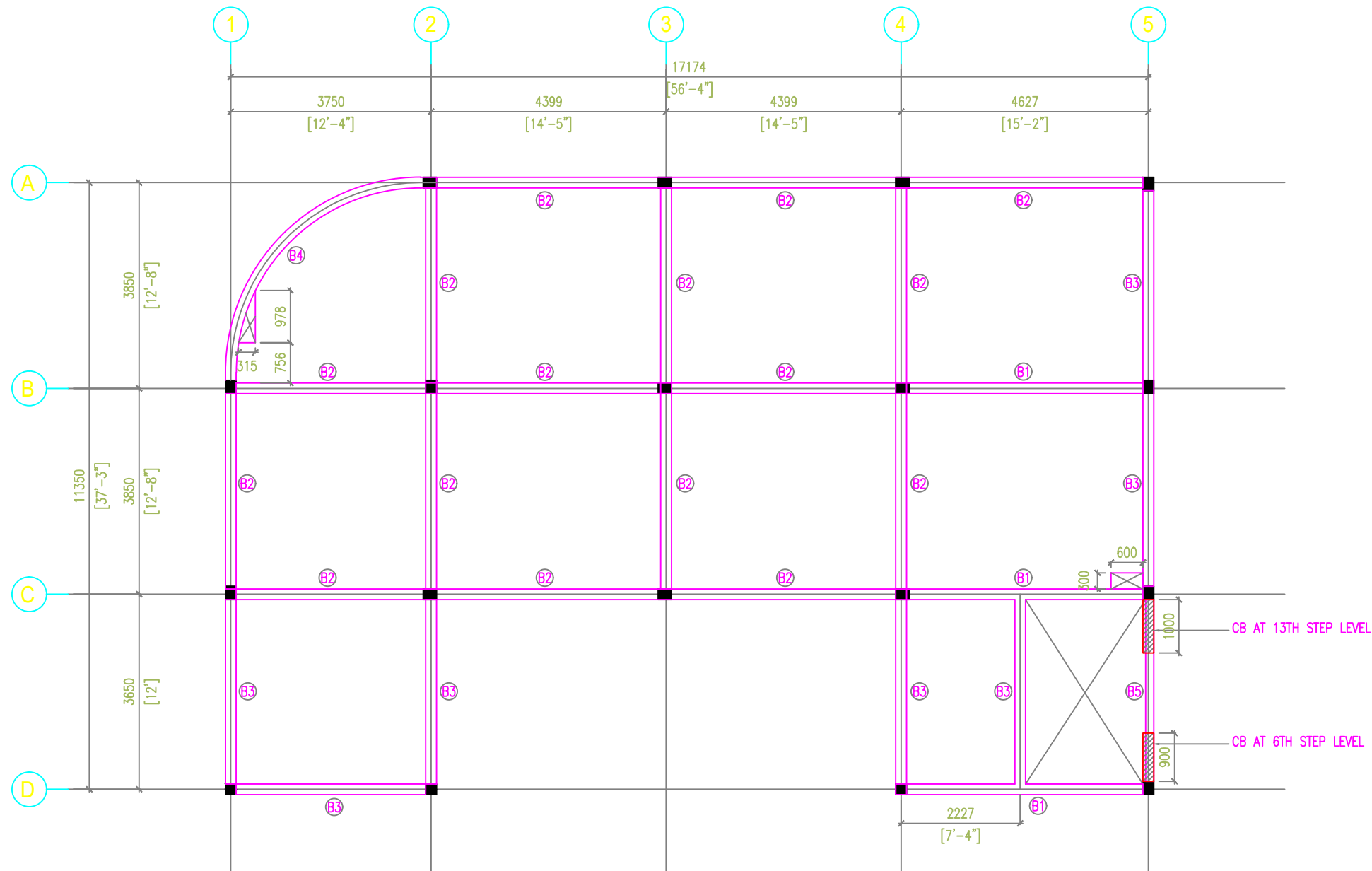
PROJECT:  
HAA DHAAL ATOLL COUNCIL  
TRAINING HALL

CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL

SCALE: AS GIVEN

DATE: SEPTEMBER 2024

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**ROOF SLAB BEAM PLAN**  
SCALE 1:100

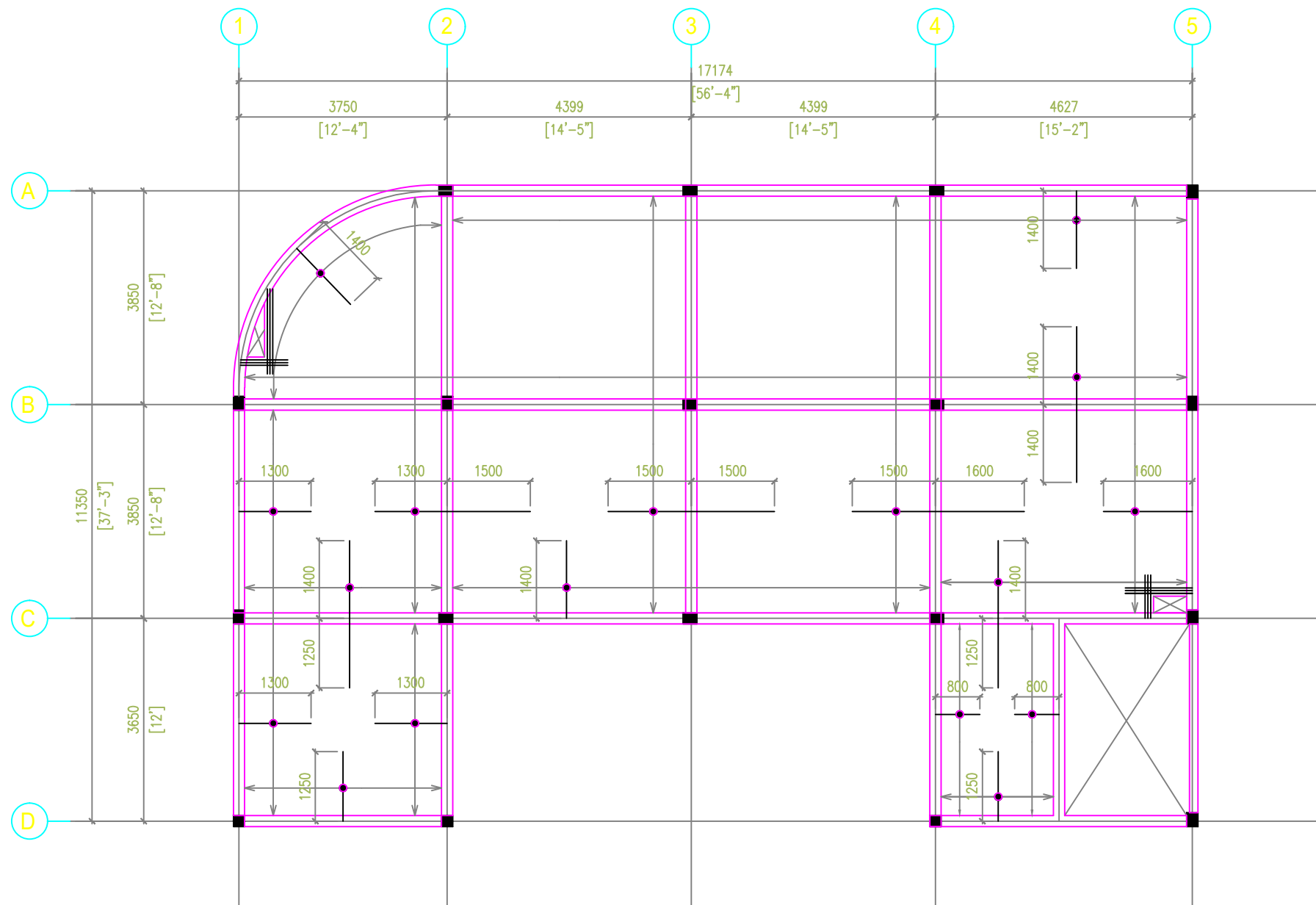
PROJECT:  
HAA DHAAL ATOLL COUNCIL  
TRAINING HALL

CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL

SCALE: AS GIVEN

DATE: SEPTEMBER 2024

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SLAB THICKNESS=140MM  
 BOTTOM REINFORCEMENT= T10-150 B/W  
 TOP REINFORCEMENT= T10-150 (AS SHOWN)  
 DIST. STEEL: T10-300  
 CONCRETE COVER= 25-30MM

**ROOF SLAB REBAR PLAN**  
 SCALE 1:100

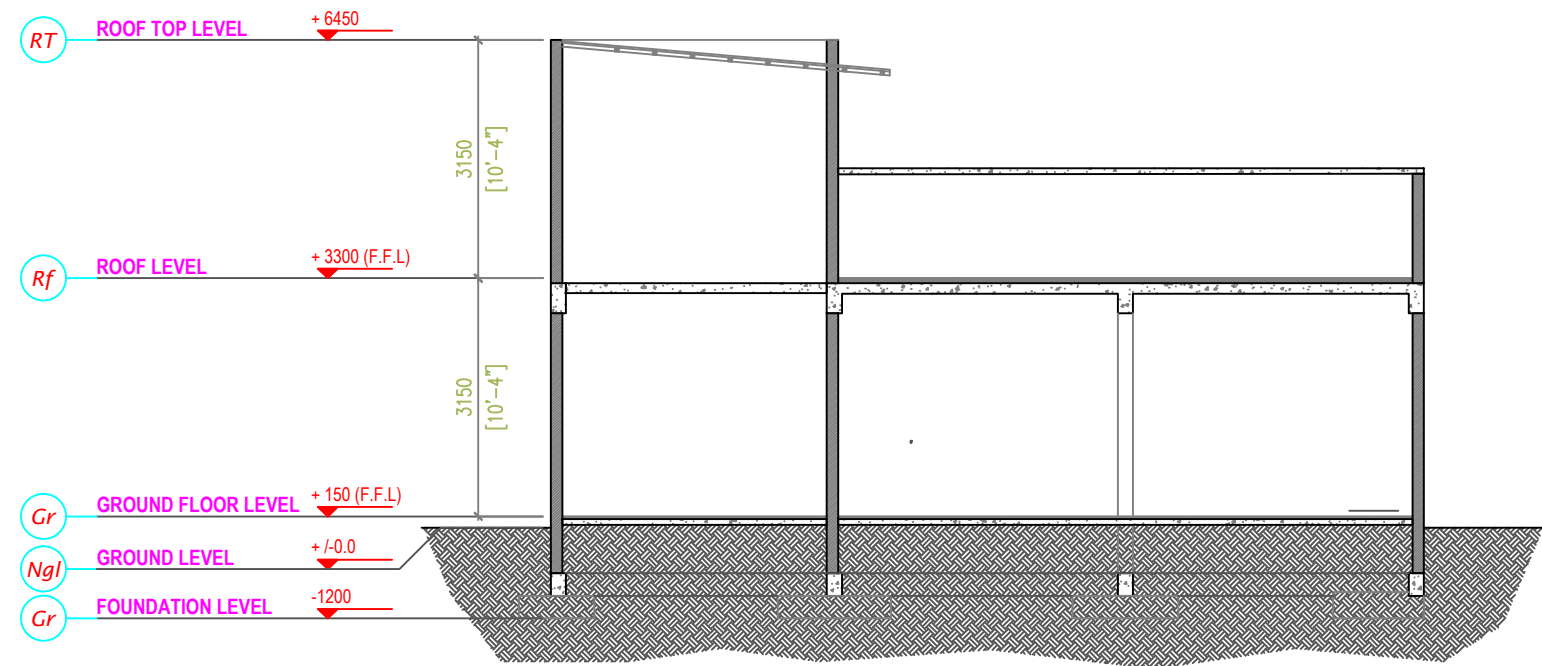
PROJECT:  
 HAA DHAAL ATOLL COUNCIL  
 TRAINING HALL

CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL

SCALE: AS GIVEN

DATE: SEPTEMBER 2024

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**SECTION-X**  
SCALE 1:100

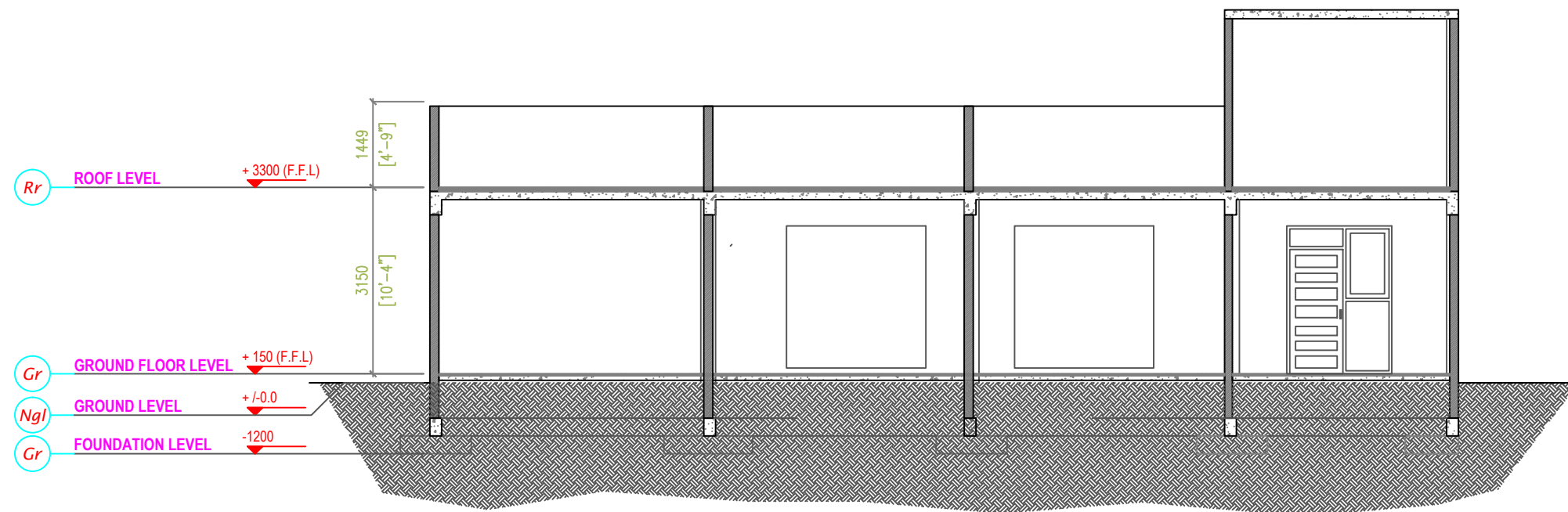
PROJECT:  
HAA DHAAL ATOLL COUNCIL  
TRAINING HALL

CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL

SCALE: AS GIVEN

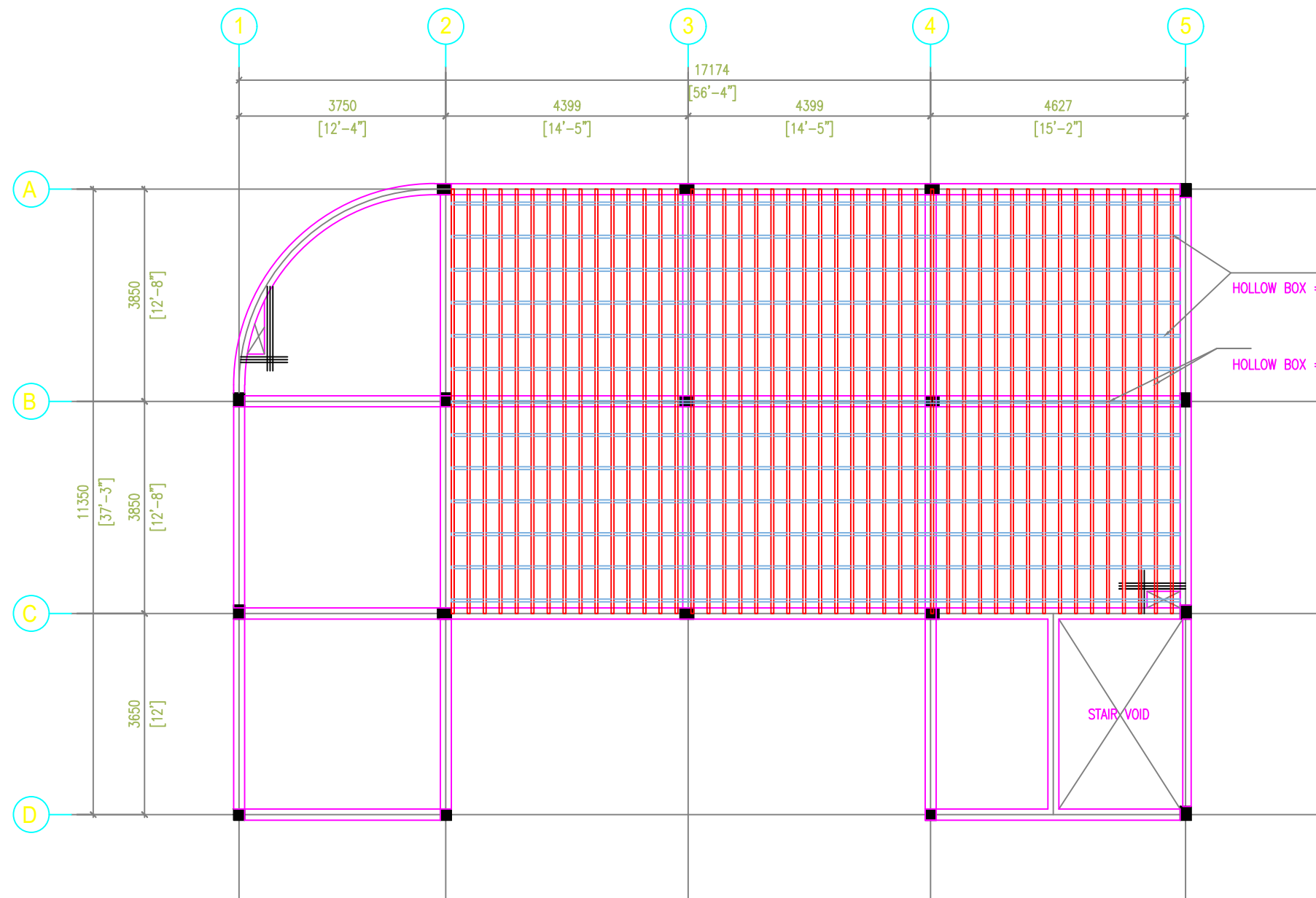
DATE: SEPTEMBER 2024

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**SECTION-Y**  
SCALE 1:100

|  |
|--|
| <p>PROJECT:<br/>HAA DHAAL ATOLL COUNCIL<br/>TRAINING HALL</p>  |
| <p>CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL</p>  |
| <p>SCALE: AS GIVEN</p>   |
| <p>DATE: SEPTEMBER 2024</p>  |
| <p>THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS , SPECIFICATIONS, REPORTS AND DRAWINGS. CONTRACTORS SHALL WORK FROM FIGURED DIMENSION ONLY. CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE.</p> |



**ROOF FRAMING PLAN**  
SCALE 1:100

HOLLOW BOX = 2in X 4in @ 600 c/c  
 BOTTOM REINFORCEMENT = T10-150 B/W  
 TOP REINFORCEMENT = T10-150 (AS SHOWN)  
 DIST. STEEL: T10-300  
 CONCRETE COVER = 25-30MM

HOLLOW BOX = 2in X 4in @ 600 c/c

HOLLOW BOX = 2in X 4in @ 290 c/c

STAIR VOID

PROJECT:  
 HAA DHAAL ATOLL COUNCIL  
 TRAINING HALL

CLIENT: SECRETARIAT OF HDH ATOLL COUNCIL

SCALE: AS GIVEN

DATE: SEPTEMBER 2024

THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTS, SPECIFICATIONS, REPORTS AND DRAWINGS. CONTRACTORS SHALL WORK FROM FIGURED DIMENSION ONLY. CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE.



TRAINING HALL BUILDING  
SECRETARIAT OF H.DH ATOLL COUNCIL  
SEPTEMBER 2024

# **BILL OF QUANTITIES**

## **PROJECT: TRAINING HALL BUILDING**

7-Oct-24



SUMMARY OF BILLS OF QUANTITIES  
 TRAINING HALL BUILDING,H.DH KULHUDHUFFUSHI

| DESCRIPTION                         | AMOUNT       |
|-------------------------------------|--------------|
| Bill No: 01 - PRELIMINARIES         | -            |
| Bill No: 02 - GROUND WORKS          | -            |
| Bill No: 03 - CONCRETE WORKS        | -            |
| Bill No: 04 - MASONRY & PLASTERING  | -            |
| Bill No: 07 - ROOFING               | #REF!        |
| Bill No: 09 - FLOOR & WALL FINISHES | #REF!        |
| <b>TOTAL AMOUNT</b>                 | <b>#REF!</b> |
| <b>GST 8.00%</b>                    | <b>#REF!</b> |
| <b>GRAND TOTAL</b>                  | <b>#REF!</b> |
| <i>Approx. Built-up Area (sqft)</i> |              |
| <i>Av Rate of Construction</i>      |              |

| ITEM   | DESCRIPTION   | UNIT | QTY  | RATE | AMOUNT |
|--------|---|------|------|------|--------|
| 1.0.00 | <b>Bill №: 01 - PRELIMINARIES</b><br><br>(a) Rates shall include for provisions in technical specification & drawings for preliminary works.  |      |      |      |        |
| 1.1.00 | <b>SITE MANAGEMENT COSTS</b><br><br>The rate for site management cost shall include for:<br><br>1 Temporary services (electricity, water, security).<br>2 Site hoarding, scaffoldings and signboards.<br>3 Safety equipment and gears for workers.<br>4 Site maintenance, cleaning and garbage disposal.<br>5 Material storage and transportation.<br>6 Cleaning before handing over. | item | 1.00 |      | -      |
| 1.2.00 | <b>TOTAL OF BILL №: 01 - Carried Over To Summary</b>  |      |      |      | -      |

| ITEM          | DESCRIPTION   | UNIT | QTY   | RATE | AMOUNT |
|---------------|---|------|-------|------|--------|
| <b>2.0.00</b> | <b>Bill No: 02 - GROUND WORKS</b>   |      |       |      |        |
|               | (a) Rates shall include for provisions in technical specification & drawings for ground works.  |      |       |      |        |
| <b>2.1.00</b> | <b>EXCAVATION</b>   |      |       |      |        |
|               | Allow for equipment, machinery and excavation with disposal of excavated materials.   |      |       |      |        |
| 2.1.01        | Footing   | m3   | 31.45 |      | -      |
| 2.1.02        | Tie beam  | m3   | 33.63 |      | -      |
| 2.1.03        | Dewatering  |      |       |      |        |
|               | If necessary allow for appropriate dewatering system to give dry surface for foundation works. It shall include provision for pipeline, pumps and other dewatering equipment's and disposal as per local authority requirement.                                   | item | 1.00  |      | -      |
| <b>2.3.00</b> | <b>BACK FILLING</b>   |      |       |      |        |
|               | Allow for filling of good quality material, free from garbage, spoiled soil, boulders. Filling to be done in layers to provide require compaction. Precaution to be taken while compaction for the sub-structure and any service pipe lines or cables underneath. | m3   | 51.30 |      | -      |
|               | Building demolition and land clearance  | item |       |      |        |
| <b>2.4.00</b> | <b>TOTAL OF BILL No: 02 - Carried Over To Summary</b>   |      |       |      | -      |

| ITEM          | DESCRIPTION   | UNIT | QTY    | RATE | AMOUNT |
|---------------|---|------|--------|------|--------|
| <b>3.0.00</b> | <b>Bill №: 03 - CONCRETE WORKS</b>  |      |        |      |        |
| <b>3.1.00</b> | <b>NOTE</b>   |      |        |      |        |
|               | (a) Rates shall include for all provisions in technical specifications & drawings for concrete, formwork & reinforcement works.   |      |        |      |        |
|               | (b) Rates shall include for material handling and storage, mixing, transportation, consolidation, curing, testing and protection of concrete.   |      |        |      |        |
|               | (c) Rate shall include for formwork systems, material, carpentry and setting up of form work in place, verticality/horizontality alignment, form oil, cleaning, supports and removal. Thickness of formwork plywood shall be good quality, 12mm thick plywood.                          |      |        |      |        |
|               | (d) Rate shall include for steel reinforcement, bending, placing and binding requirements. Main bars to be high yield and lines to be mild steel. Reinforcement rates shall include cost of binding wires, lapping, sockets, chairs, spaces, that may require to install reinforcement. |      |        |      |        |
|               | (e) Unless otherwise, stated in the technical specifications, use ordinary Portland cement, appropriate river sand and clean potable water for the concrete works.  |      |        |      |        |
| <b>3.2.00</b> | <b>LEAN CONCRETE</b>  |      |        |      |        |
|               | Quantity measured referring the outer edges of foundation members. If necessary, allow in the rates for any additional lean concrete required for placing the formwork.   |      |        |      |        |
| 3.2.01        | 50mm thick lean concrete to bottom of footings. (1:4:8)   | m3   | 1.31   |      | -      |
| 3.2.02        | Tie beam (1:4:8)  | m3   | 1.10   |      | -      |
| <b>3.3.00</b> | <b>DAMPProof MEMBRANE</b>   |      |        |      |        |
| 3.3.01        | Polythene dampproof membrane.   | m2   | 53.10  |      | -      |
| <b>3.4.00</b> | <b>FOUNDATION</b>   |      |        |      |        |
| <b>3.4.01</b> | <b>Footing</b>  |      |        |      |        |
|               | Concrete ( to ratio 1:2:3)  | m3   | 8.12   |      | -      |
|               | Formwork  | m2   | 26.46  |      | -      |
|               | Reinforcement   |      |        |      |        |
|               | High yield bars, diameter 12mm  | kg   | 120.00 |      | -      |
|               | High yield bars, diameter 10mm  | kg   | 203.55 |      | -      |

|               |                                |    |          |  |   |
|---------------|--------------------------------|----|----------|--|---|
| <b>3.5.00</b> | <b><u>BELOW GROUND</u></b>     |    |          |  |   |
| <b>3.5.01</b> | <b>COLUMNS</b>                 |    |          |  |   |
|               | Concrete                       | m3 | 0.78     |  | - |
|               | Formwork                       | m2 | 14.18    |  | - |
|               | Reinforcement                  |    |          |  |   |
|               | High yield bars, diameter 16mm | kg | 294.00   |  | - |
|               | Mild steel, diameter 6 bars    | kg | 26.00    |  | - |
| <b>3.5.02</b> | <b>FOOTING TIE BEAM</b>        |    |          |  |   |
|               | Concrete                       | m3 | 6.65     |  | - |
|               | Formwork                       | m2 | 66.45    |  | - |
|               | Reinforcement                  |    |          |  |   |
|               | High yield bars, diameter 16mm | kg | 1,231.46 |  | - |
|               | Mild steel, diameter 6 bars    | kg | 135.00   |  | - |
| <b>3.6.00</b> | <b><u>GROUND FLOOR</u></b>     |    |          |  |   |
| <b>3.6.01</b> | <b>COLUMNS</b>                 |    |          |  |   |
|               | Concrete                       | m3 | 2.74     |  | - |
|               | Formwork                       | m2 | 50.09    |  | - |
|               | Reinforcement                  |    |          |  |   |
|               | High yield bars, diameter 16mm | kg | 372.70   |  | - |
|               | High yield bars, diameter 12mm | kg | 59.70    |  | - |
|               | Mild steel, diameter 6 bars    | kg | 53.50    |  | - |
| <b>3.6.02</b> | <b>FIRST FLOOR BEAMS</b>       |    |          |  |   |
|               | Concrete                       | m3 | 8.73     |  | - |
|               | Formwork                       | m2 | 86.74    |  | - |
|               | Reinforcement                  |    |          |  |   |
|               | High yield bars, diameter 16mm | kg | 1,397.00 |  | - |
|               | Mild steel, diameter 6 bars    | kg | 270.00   |  | - |

|               |   |    |          |  |   |
|---------------|---|----|----------|--|---|
| <b>3.7.00</b> | <b>ROOF FLOOR</b>   |    |          |  |   |
| <b>3.7.01</b> | <b>ROOF FLOOR SLAB</b>  |    |          |  |   |
|               | Concrete  | m3 | 19.16    |  | - |
|               | Formwork  | m2 | 136.87   |  | - |
|               | Reinforcement   |    |          |  |   |
|               | High yield bars, diameter 10mm  | kg | 2,900.00 |  | - |
| <b>3.7.02</b> | <b>COLUMNS</b>  |    |          |  |   |
|               | Concrete  | m3 | 1.08     |  | - |
|               | Formwork  | m2 | 19.69    |  | - |
|               | Reinforcement   |    |          |  |   |
|               | High yield bars, diameter 16mm  | kg | 143.50   |  | - |
|               | High yield bars, diameter 12mm  | kg | 17.05    |  | - |
|               | Mild steel, diameter 6 bars   | kg | 24.55    |  | - |
| <b>3.7.03</b> | <b>ROOF BEAMS</b>   |    |          |  |   |
|               | Concrete  | m3 | 6.19     |  | - |
|               | Formwork  | m2 | 76.40    |  | - |
|               | Reinforcement   |    |          |  |   |
|               | High yield bars, diameter 16mm  | kg | 1,060.00 |  | - |
|               | Mild steel, diameter 6 bars   | kg | 260.00   |  | - |
| <b>3.8.00</b> | <b>WATER PROOFING</b>   |    |          |  |   |
|               | water proofing on roof in accordance with informatiion sheet instruction. | m2 | 100.00   |  | - |
| <b>3.3.00</b> | <b>TOTAL OF BILL №: 03 - Carried Over To Summary</b>                      |    |          |  | - |

| ITEM          | DESCRIPTION   | UNIT | QTY    | RATE | AMOUNT |
|---------------|---|------|--------|------|--------|
| <b>4.0.00</b> | <b><u>Bill No: 04 - MASONRY AND PLASTERING</u></b>  |      |        |      |        |
| <b>4.1.00</b> | <b><u>NOTE:</u></b><br><br>(a) Rates shall allow for provisions in technical specification & drawings for masonry and plastering works. Rates shall include conduits laying<br><br>(b) Rates for masonry & plastering shall include for necessary platforms, scaffoldings, tools, labour, material required for masonry and plastering works.<br><br>(c) Unless otherwise, stated in the technical specifications, use ordinary Portland cement, appropriate river sand and clean potable water for the works |      |        |      |        |
| <b>4.2.00</b> | <b><u>SOLID/HOLLOW BLOCK WALL</u></b>   |      |        |      |        |
| <b>4.2.01</b> | <b>WALLS</b><br><br>150mm thick cement SOLID block wall on cement plastered and painted finish. specified.  |      |        |      |        |
| 1             | Below ground level  | m2   | 30.96  |      | -      |
| 2             | Ground floor  | m2   | 200.00 |      | -      |
| 3             | Roof sides  | m2   | 130.00 |      | -      |
| <b>4.3.00</b> | <b><u>CEMENT PLASTER</u></b>  |      |        |      |        |
| <b>4.3.01</b> | <b>WALLS</b><br><br>25mm cement plastering on External walls and concrete surfaces.   |      |        |      |        |
| 1             | Ground floor  | m2   | 460.00 |      | -      |
| 2             | Roof sides  | m2   | 260.00 |      | -      |

|               |   |    |        |  |   |
|---------------|---|----|--------|--|---|
| <b>4.4.00</b> | <b><u>CEMENT SCREED</u></b><br><br>50mm thick cement screeding on the floor with 1:4 cement mortar mix. |    |        |  |   |
| 1             | Ground floor  | m2 | 154.55 |  | - |
| 2             | Roof cement screed and fiber mat  | m2 | 110.00 |  | - |
| <b>4.5.00</b> | <b>TOTAL OF BILL №: 04 - Carried Over To Summary</b>  |    |        |  | - |