

Proposed 02 Classroom, Health Room & Science Lab at  
Th.Omadhoo School  
(02 Storey)

*ARCHITECTURAL & STRUCTURAL DRAWINGS*

Client: Ministry of Education



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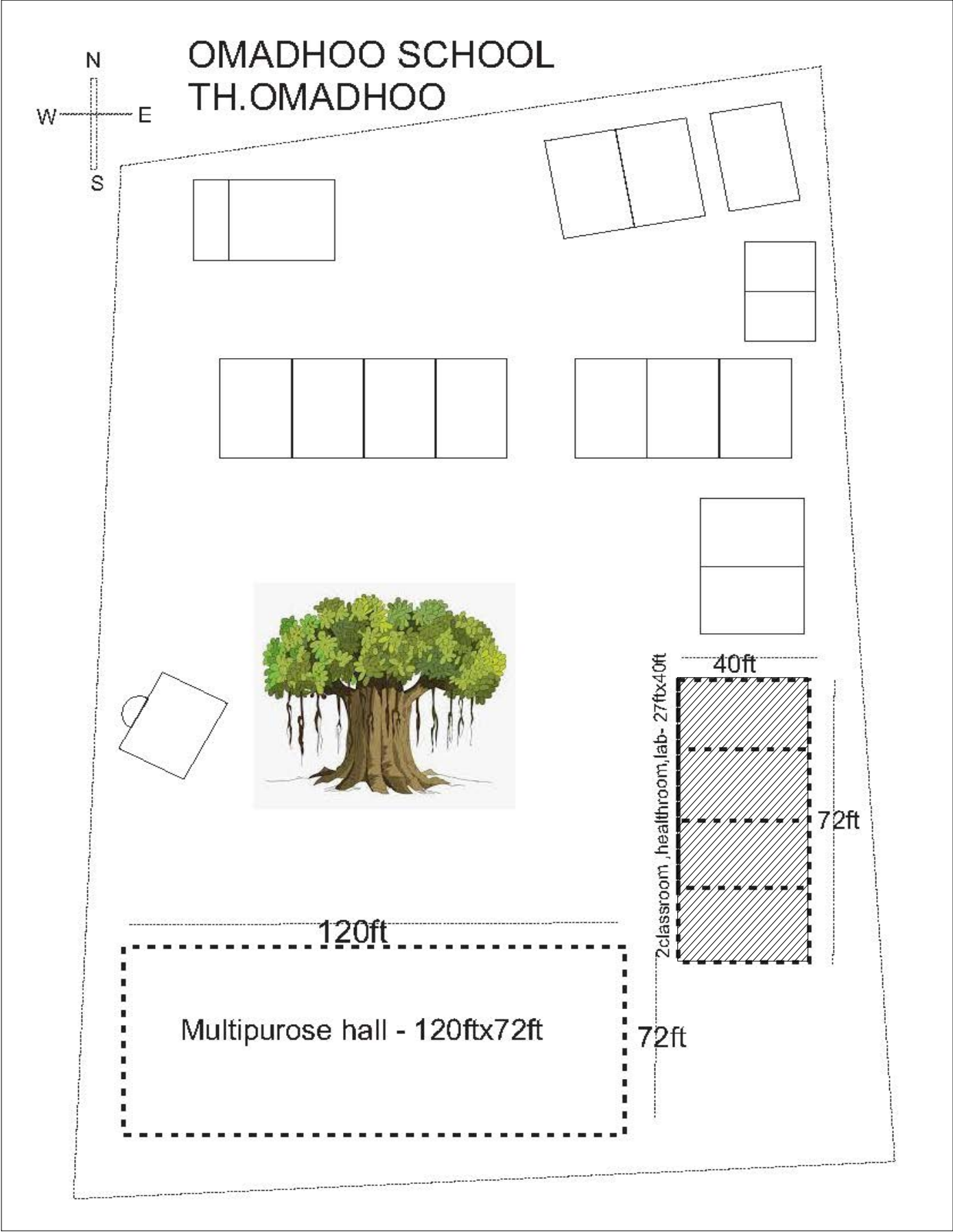
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SITE PLAN

NTS



NOTE:

PROPOSED BUILDING LOCATION

PLAY AREA TO BE DEMOLISHED OR RELOCATED - TO BE CONFIRMED FROM THE SCHOOL

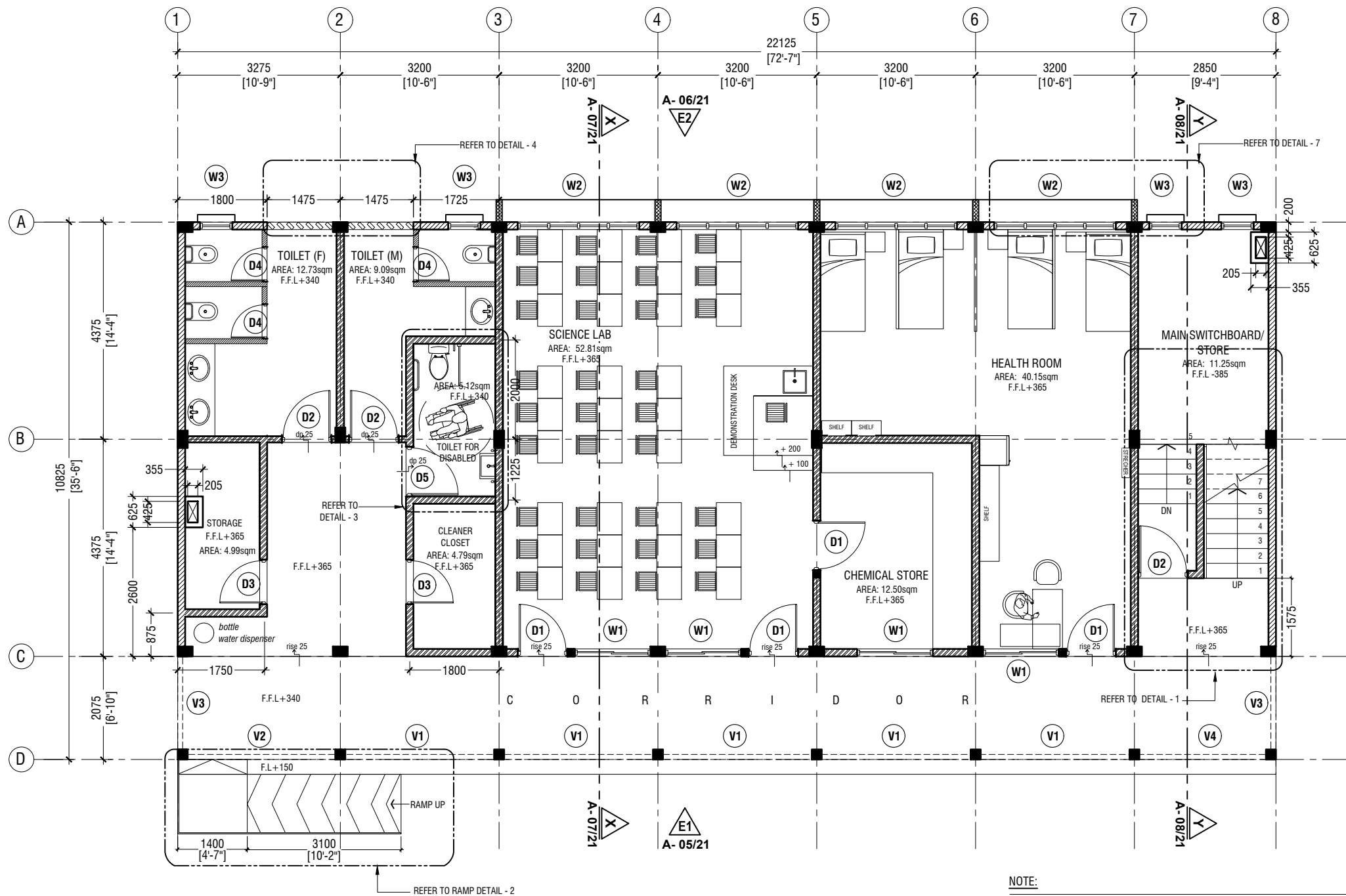
Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

|                                   |        |      |
|-----------------------------------|--------|------|
| Project Number: RI/2020/006       | Rev no | Date |
| Date: April 2021                  | --     | ---- |
| Architect: Maryam Irasha Shareef  | --     | ---- |
| Engineer: Mohamed Muthalib Waleed | --     | ---- |
| Drawn by: Maryam Leevan Jaleel    | --     | ---- |
| Services: Aishath Ahmed           | --     | ---- |
| Interior: -                       | --     | ---- |

## GROUND FLOOR PLAN

SCALE 1:100



### NOTE:

- PROPOSED 150mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 150mm THICK SOLID BLOCK - EXTERIOR MASONRY WALL WITH 20mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 100mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
- PROPOSED 120mm THICK RC WALL TO BE WATER PROOFED WITH WATER PROOFING AGENT
- PROPOSED 100mm THICK 2400mm HIGH SOLID BLOCK MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH

THE SCREEDING AND TILES ARE INCORPORATED IN THE FLOOR FINISH LEVELS

REFER TO ARCHITECT FOR FURTHER ASSISTANCE.

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Maryam Irasha Shareef

Engineer: Mohamed Muthalib Waleed

Drawn by: Maryam Leevan Jaleel

Services: Aishath Ahmed

Interior: -

Rev no

Date

---

---

---

---

---

Project Number: RI/2020/006

Date: April 2021

Architect: Maryam Irasha Shareef

Engineer: Mohamed Muthalib Waleed

Drawn by: Maryam Leevan Jaleel

Services: Aishath Ahmed

Interior: -

Rev no

Date

---

---

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Project Number: RI/2020/006

Date: April 2021

Architect: Maryam Irasha Shareef

Engineer: Mohamed Muthalib Waleed

Drawn by: Maryam Leevan Jaleel

Services: Aishath Ahmed

Interior: -

Rev no

Date

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---

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Project Number: RI/2020/006

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Architect: Maryam Irasha Shareef

Engineer: Mohamed Muthalib Waleed

Drawn by: Maryam Leevan Jaleel

Services: Aishath Ahmed

Interior: -

Rev no

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Engineer: Mohamed Muthalib Waleed

Drawn by: Maryam Leevan Jaleel

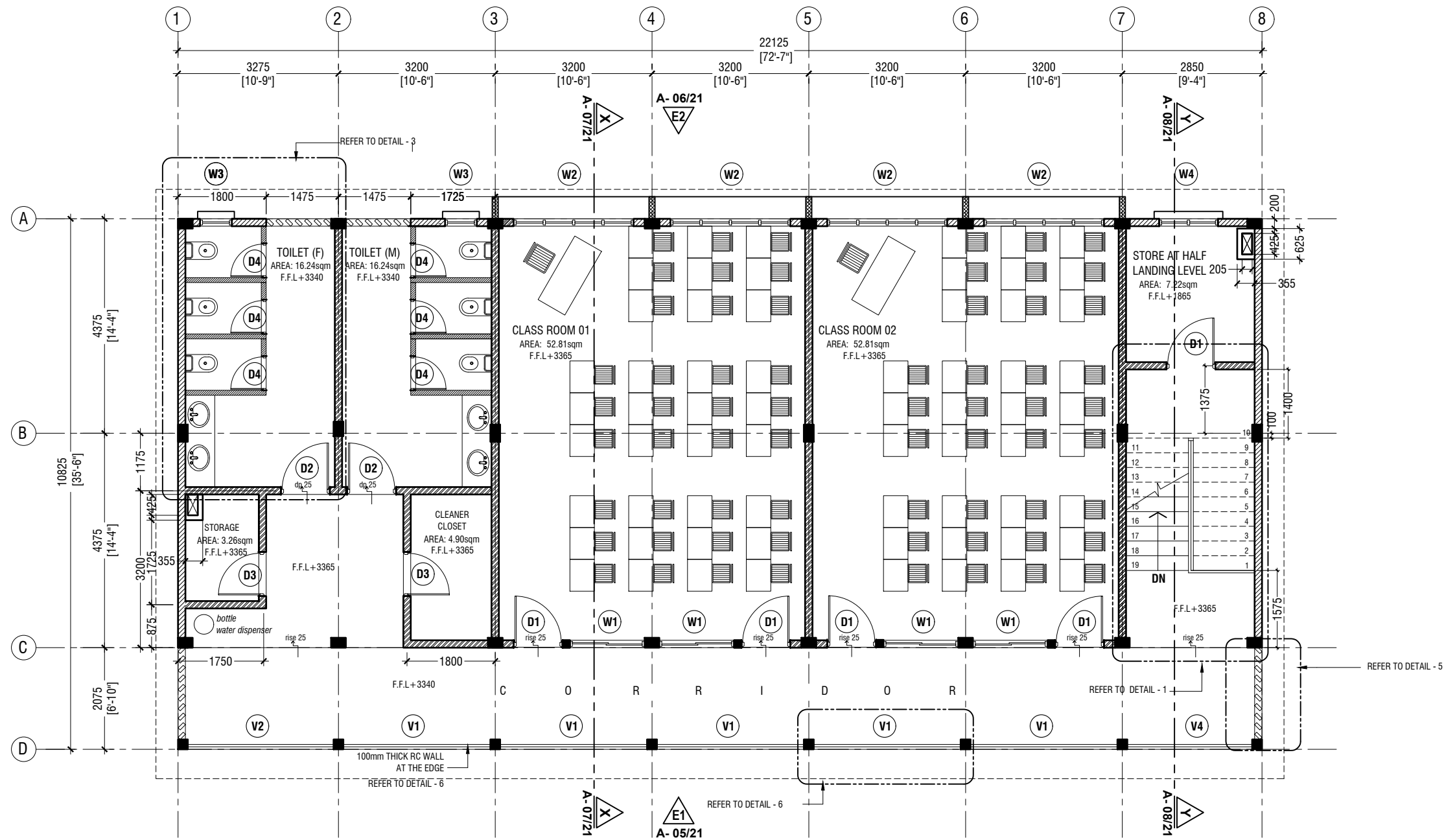
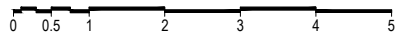
Services: Aishath Ahmed

Interior: -

Rev no

# FIRST FLOOR PLAN

SCALE 1:100



## NOTE:

- PROPOSED 150mm THICK SOLID BLOCK - INTERIOR MASONRY WALL WITH 16mm PLASTERING, GROUND SMOOTH IN SELECTED PAINT FINISH
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Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Maryam Irasha Shareef

Engineer: Mohamed Muthalib Waleed

Drawn by: Maryam Leevan Jaleel

Services: Aishath Ahmed

Interior: -



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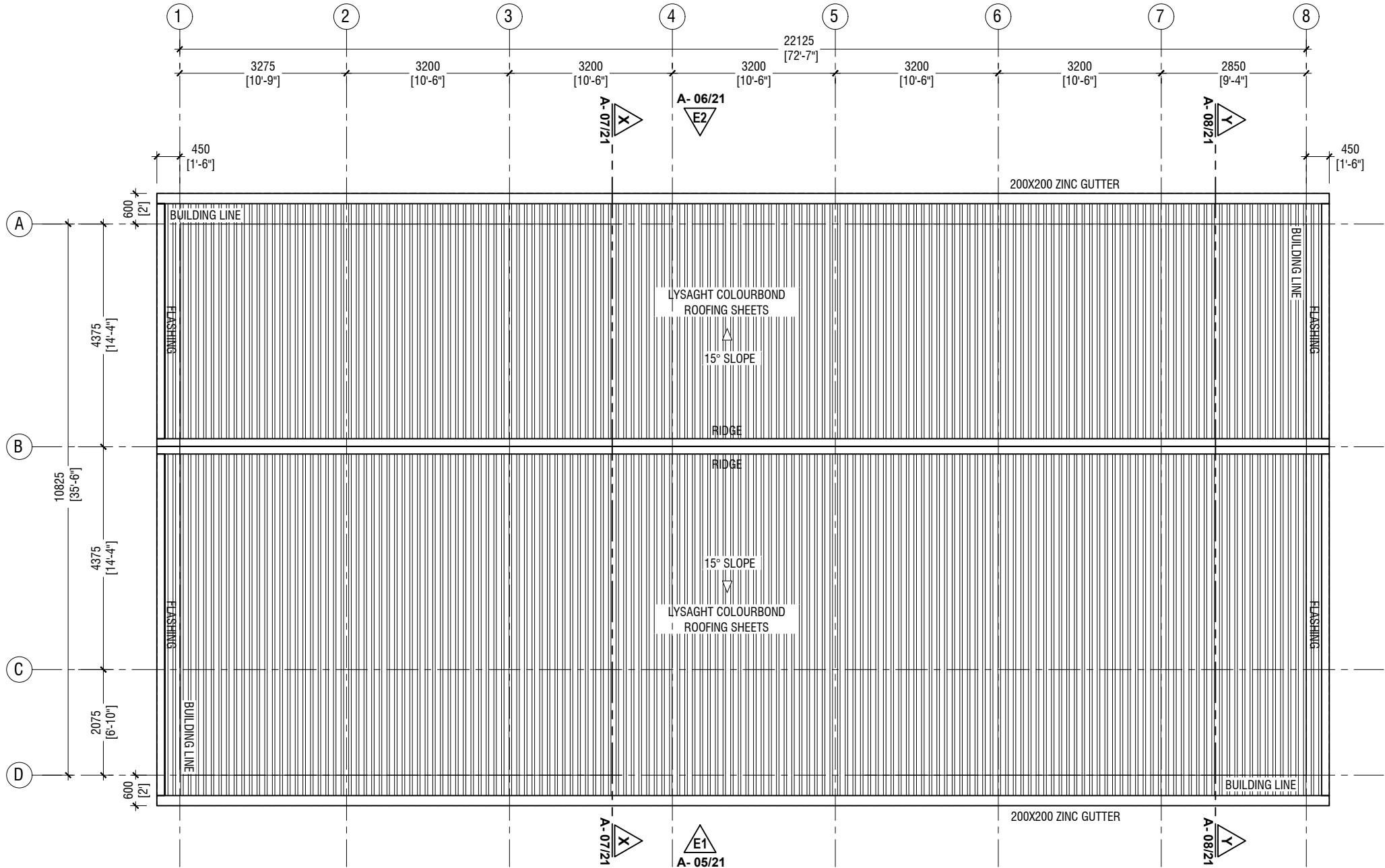
Title: First Floor Plan

Page: A-03/21

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ROOF PLAN

SCALE 1:100



NOTE:

ROOF SLOPE : 15° SLOPE

ROOF MATERIAL : LYSAGHT COLOURBOND ROOFING SHEETS

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

|                                     |        |       |
|-------------------------------------|--------|-------|
| Project Number: RI/2020/006         | Rev no | Date  |
| Date: April 2021                    | --     | ----- |
| Architect : Mariyam Irasha Shareef  | --     | ----- |
| Engineer : Mohamed Muithalib Waleed | --     | ----- |
| Drawn By : Mariyam Leevan Jaleel    | --     | ----- |
| Services : Aishath Ahmed            | --     | ----- |
| Interior : -                        | --     | ----- |



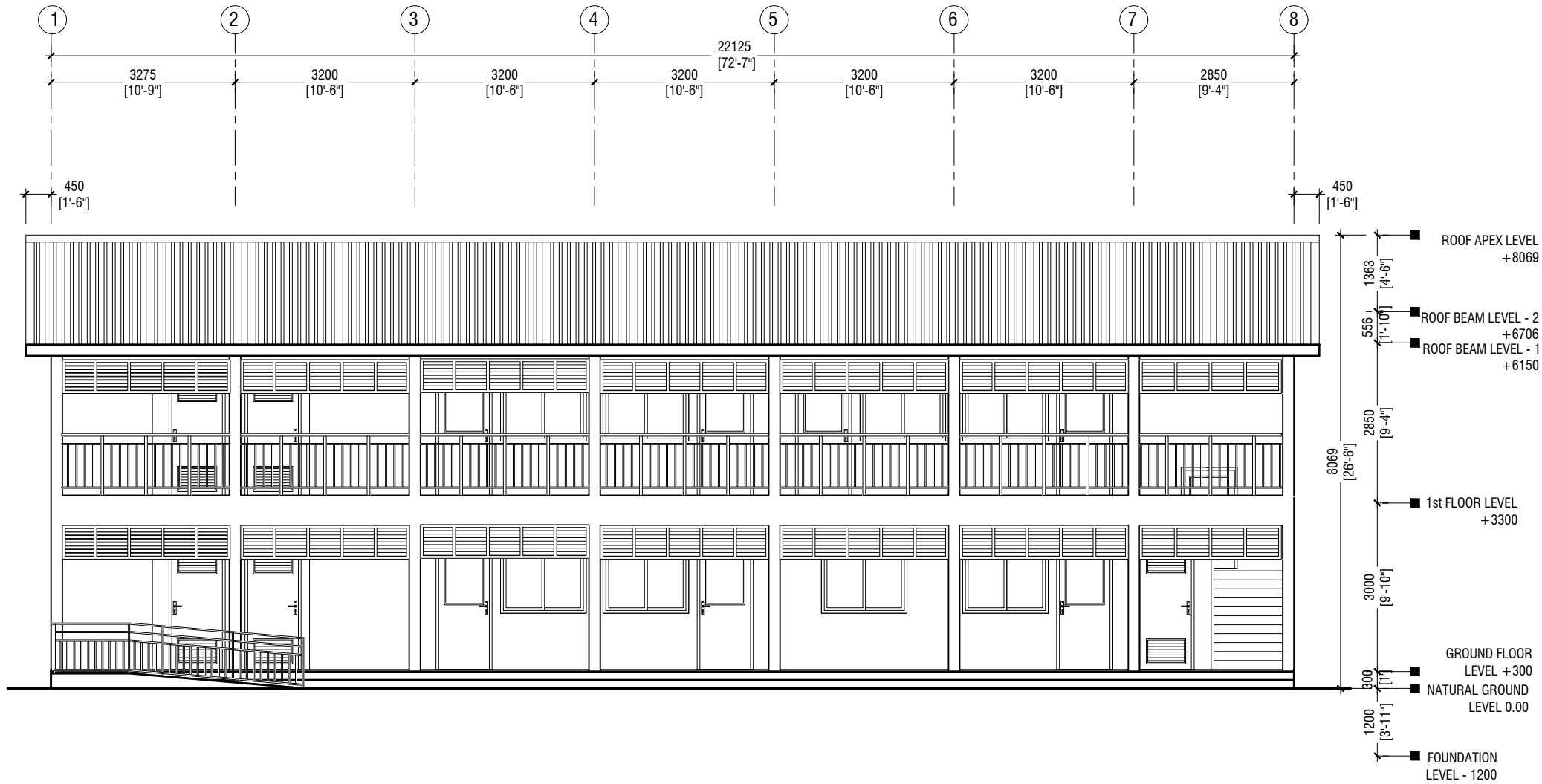
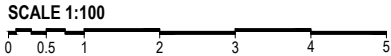
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Title: Roof Plan

Page: A-04/21

ELEVATION E1



Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education

|                                   |  |
|-----------------------------------|--|
| Project Number: RI/2020/006       |  |
| Date: April 2021                  |  |
| Architect: Mariyam Irasha Shareef |  |
| Engineer: Mohamed Muthalib Waleed |  |
| Drawn by: Mariyam LEEVAN Jaleel   |  |
| Services: Aishath Ahmed           |  |
| Interior: -                       |  |



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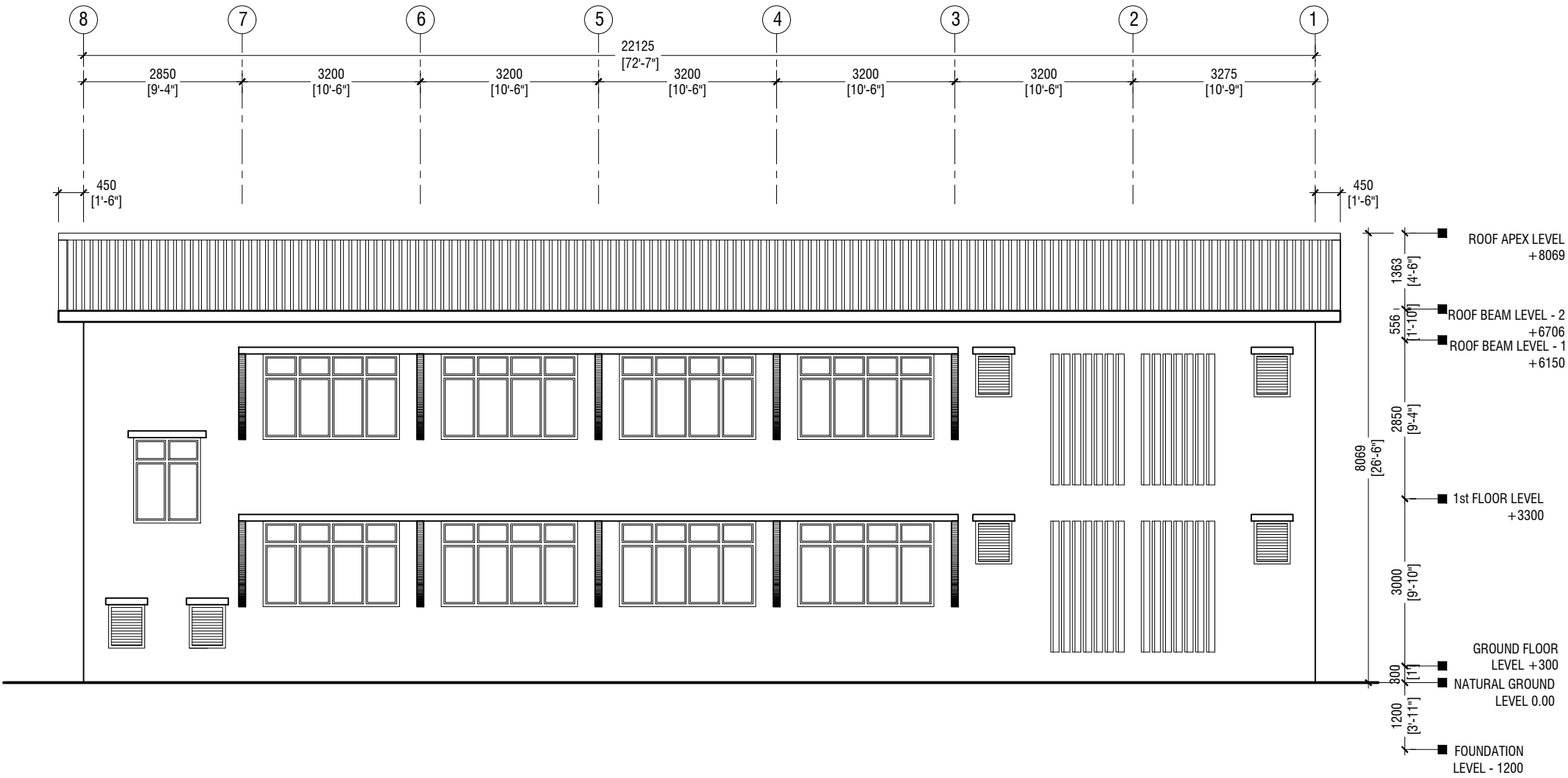
Title: Elevation - E1

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ELEVATION E2

SCALE 1:100



Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

|                                    |        |       |
|------------------------------------|--------|-------|
| Project Number: RI/2020/006        | Rev no | Date  |
| Date: April 2021                   | --     | ----- |
| Architect : Mariyam Irasha Shareef | --     | ----- |
| Engineer : Mohamed Muthalib Waleed | --     | ----- |
| Drawn by : Mariyam Leevan Jaleel   | --     | ----- |
| Services : Aishath Ahmed           | --     | ----- |
| Interior : -                       | --     | ----- |



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Title: Elevation - E2

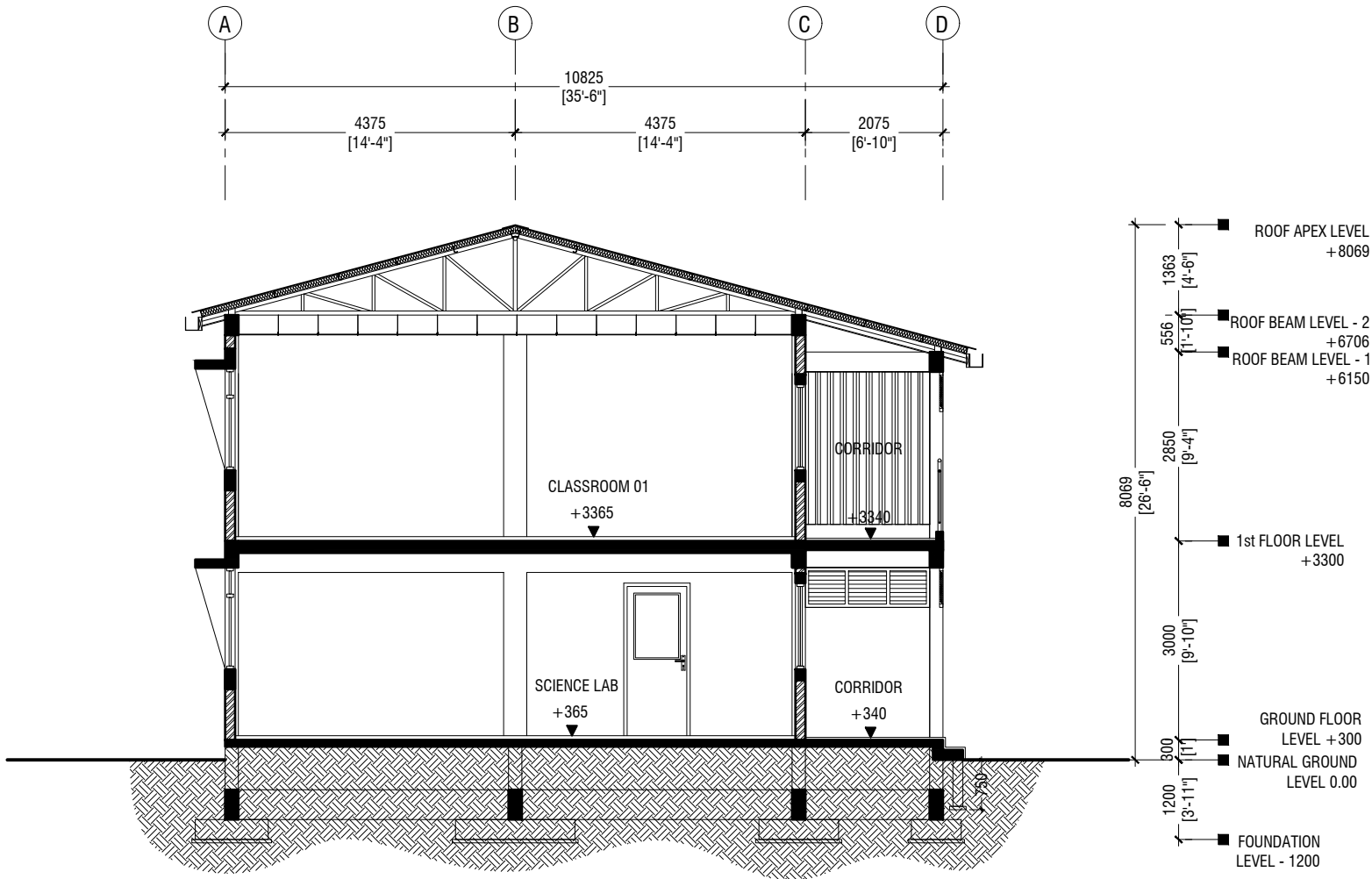
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SECTION X-X

SCALE 1:100



Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

|                                   |        |       |
|-----------------------------------|--------|-------|
| Project Number: RI/2020/006       | Rev no | Date  |
| Date: April 2021                  | --     | ----- |
| Architect: Mariyam Irasha Shareef | --     | ----- |
| Engineer: Mohamed Muthalib Waleed | --     | ----- |
| Drawn by: Mariyam Leevan Jaleel   | --     | ----- |
| Services: Ashath Ahmed            | --     | ----- |
| Interior: -                       | --     | ----- |



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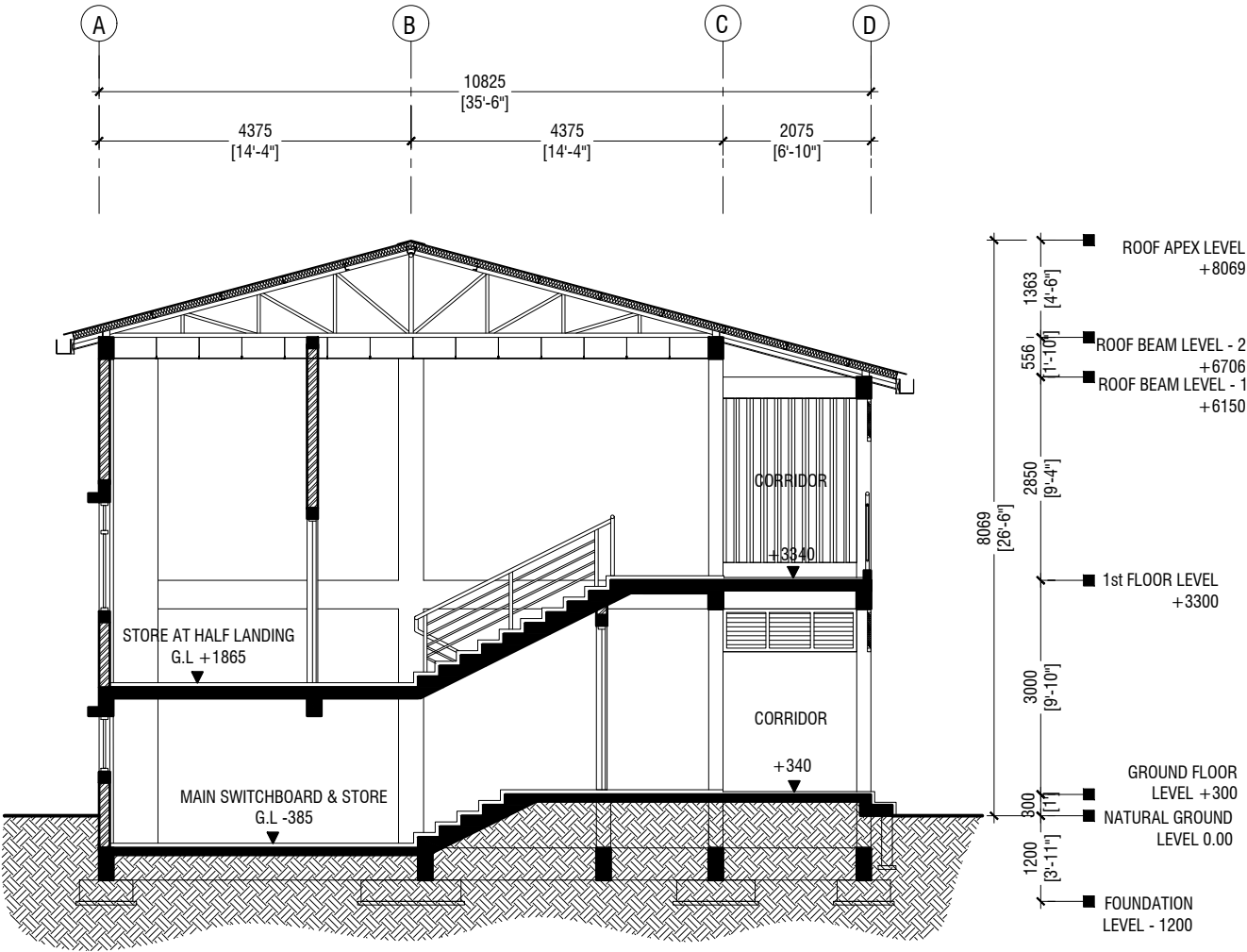
Title: Section X-X

Page: A-07/21

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SECTION Y-Y

SCALE 1:100



Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

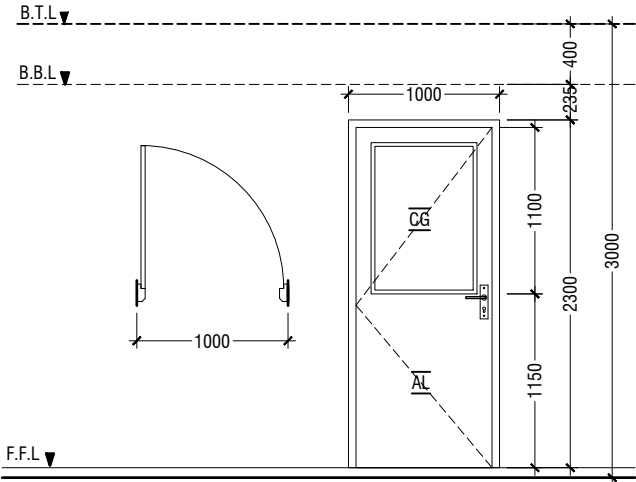
Client: Ministry of Education

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| Project Number: RI/2020/006       | Rev no | Date  |
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| Engineer: Mohamed Muthalib Waleed | --     | ----- |
| Drawn by: Mariyam Leevan Jaleel   | --     | ----- |
| Services: Aishath Ahmed           | --     | ----- |
| Interior: -                       | --     | ----- |

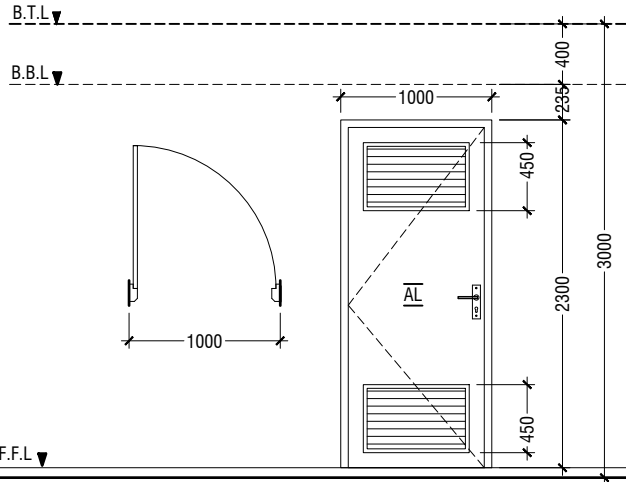
  
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Title: Section Y-Y

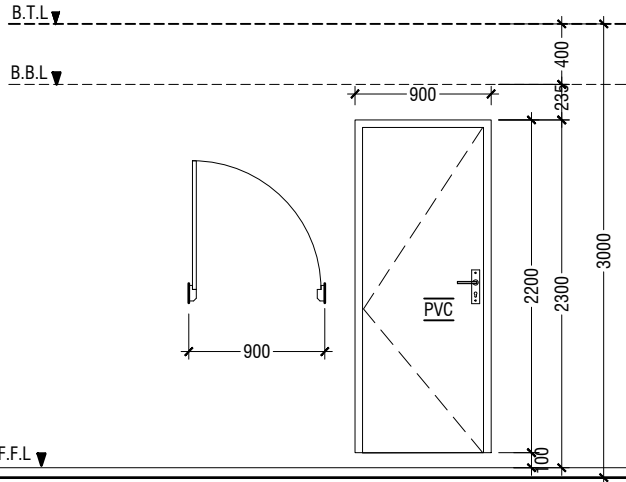
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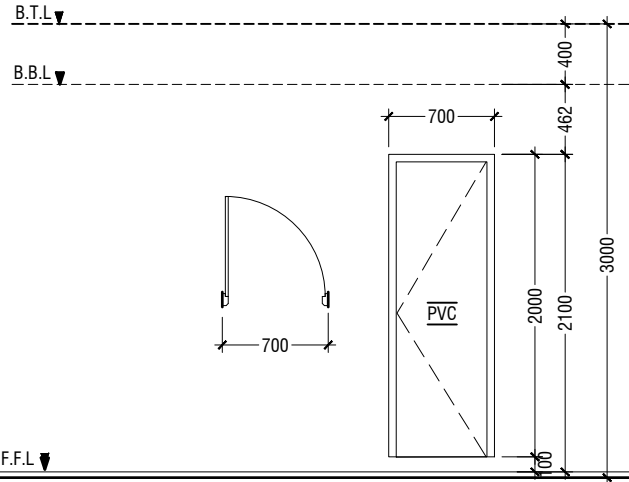
|           |  |
|-----------|--|
| D1        | SWING DOOR   |
| REMARKS   | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS |
| LOCATION  | CLASSROOMS & HALF LANDING STORE ROOM   |
| QUANTITY  | 09 NOS   |
| OPEN AREA | 2.03 sqm   |



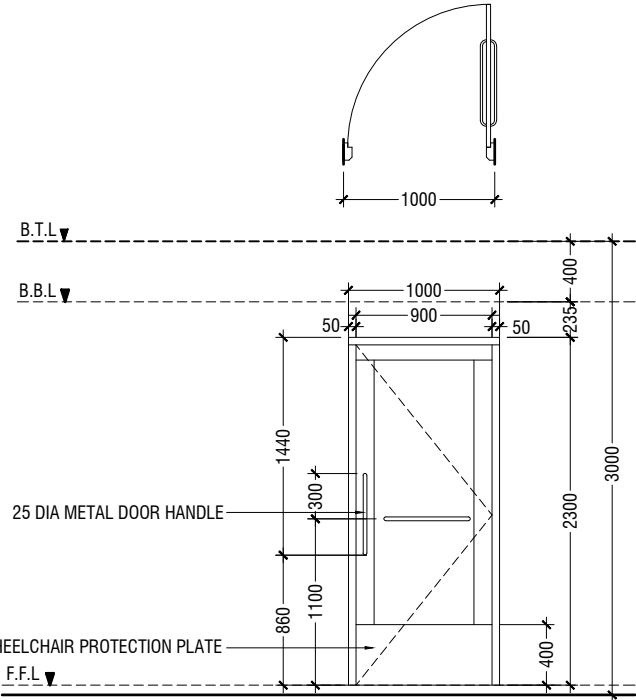
|           |   |
|-----------|---|
| D2        | SWING DOOR WITH ALUMINIUM LOUVERS   |
| REMARKS   | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND ALUMINUM LOUVERS |
| LOCATION  | TOILETS & MAIN SWITCH BOARD STORE   |
| QUANTITY  | 05 NOS  |
| OPEN AREA | 2.03 sqm  |



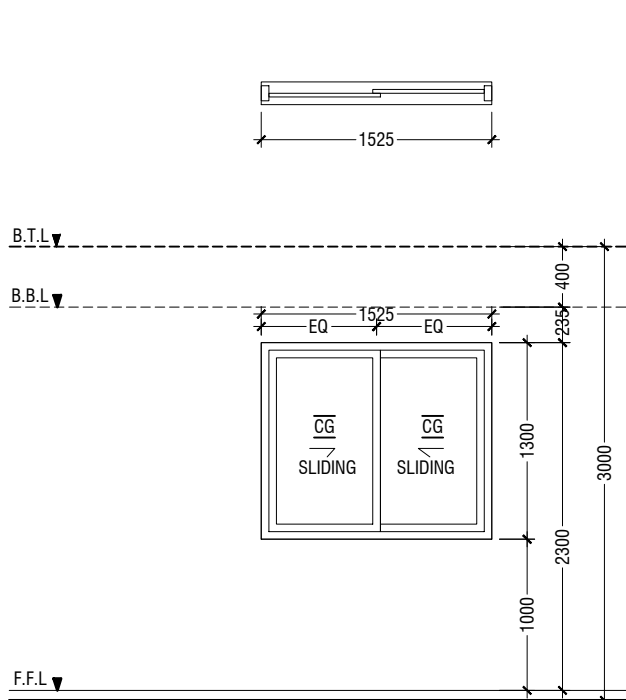
|           |                           |
|-----------|---------------------------|
| D3        | PVC SWING DOOR            |
| REMARKS   | PVC WHITE FRAME AND PANEL |
| LOCATION  | STORE & CLEANER CLOSET    |
| QUANTITY  | 04 NOS                    |
| OPEN AREA | 1.72 SQM                  |



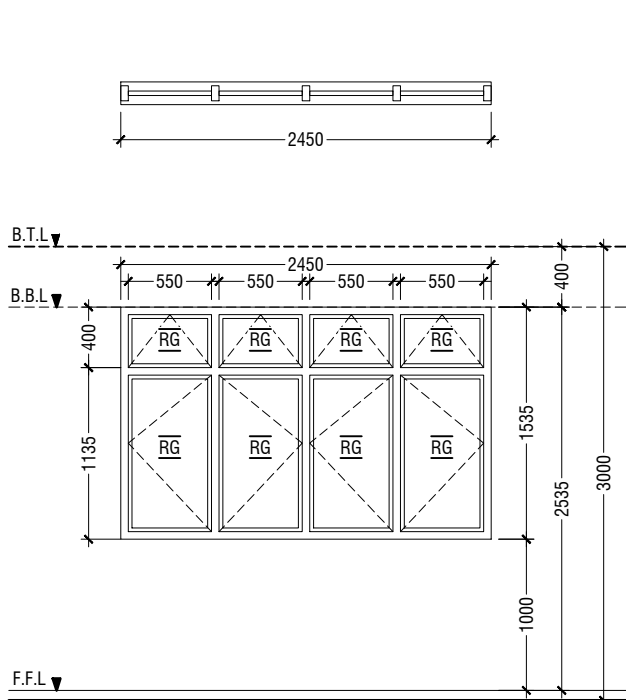
|           |                           |
|-----------|---------------------------|
| D4        | PVC SWING DOOR            |
| REMARKS   | PVC WHITE FRAME AND PANEL |
| LOCATION  | TOILETS STALLS            |
| QUANTITY  | 09 NOS                    |
| OPEN AREA | 1.17 SQM                  |



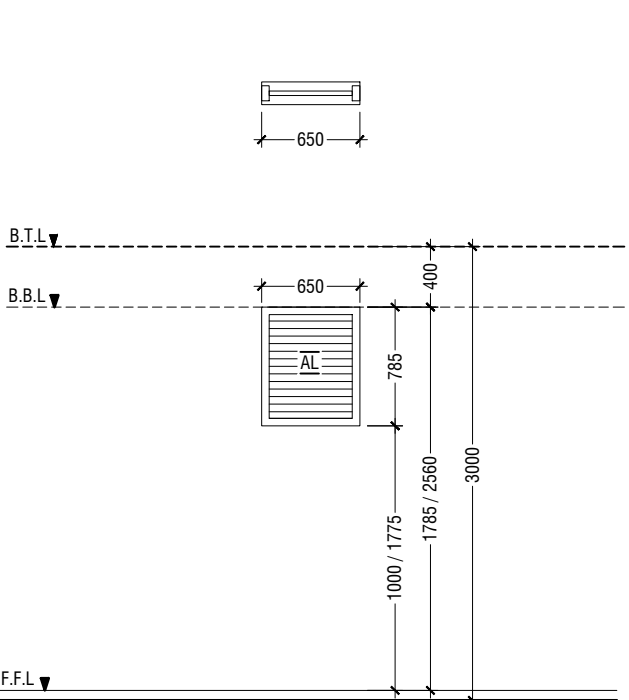
|           |  |
|-----------|--|
| D5        | SWING DOOR   |
| REMARKS   | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL |
| LOCATION  | DISABLED TOILET  |
| QUANTITY  | 01 NOS   |
| OPEN AREA | 2.03 sqm   |



|           |  |
|-----------|--|
| W1        | SLIDING WINDOW   |
| REMARKS   | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM PANEL AND 6mm THICK CLEAR GLASS |
| LOCATION  | CLASSROOMS   |
| QUANTITY  | 08 NOS   |
| OPEN AREA | 0.83 sqm   |



|           |  |
|-----------|--|
| W2        | SWING WINDOW   |
| REMARKS   | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS |
| LOCATION  | CLASSROOMS   |
| QUANTITY  | 08 NOS   |
| OPEN AREA | 3.04 sqm   |



|           |  |
|-----------|--|
| W3        | WINDOW WITH ALUMINIUM LOUVERS  |
| REMARKS   | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINIUM LOUVERS |
| LOCATION  | TOILETS & MAIN SWITCH BOARD STORE  |
| QUANTITY  | 06 NOS   |
| OPEN AREA | 0.38 SQM   |

- NOTE:-
1. FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES
  2. MAINTAIN FLOOR TO WINDOW SILL STANDARD HEIGHT REGULATION OF 1M.
  3. REFER TO ARCHITECT FOR FURTHER ASSISTANCE.
  4. ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
  5. ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
  6. THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
  7. FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW
  8. FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

LEGEND:  
CG - CLEAR GLASS  
RG - REFLECTED GLASS  
AL - ALUMINIUM  
PVC - POLYVINYL CHLORIDE

## DOOR & WINDOW SCHEDULE - 1

SCALE 1:50



Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education

Project Number: RI/2020/006  
Date: April 2021  
Architect : Mariyam Irasha Shareef  
Engineer : Mo'amed Mu'athali Waleed  
Drawn by : Mariyam Leevan Jaleel  
Services : Ashath Ahmed  
Interior : -

| Rev no | Date |
|--------|------|
| --     | ---- |
| --     | ---- |
| --     | ---- |
| --     | ---- |



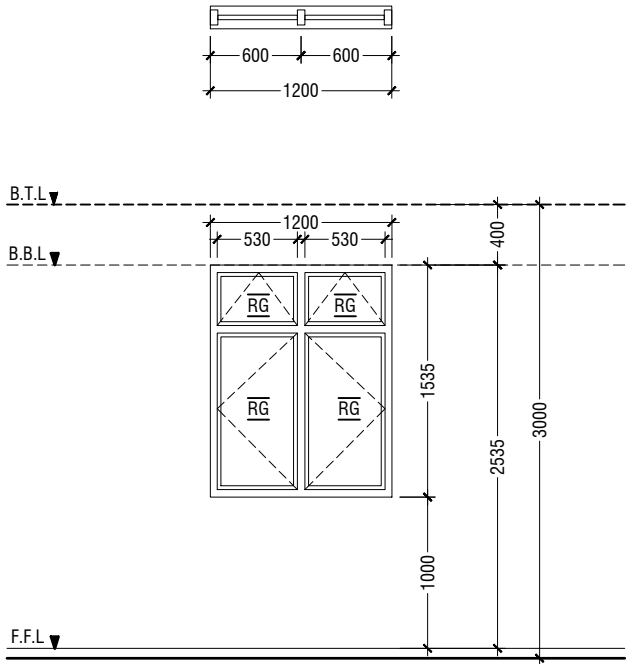
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t: +9603315049 f: +9603310776  
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w: www.ryan.com.mv  
3rd floor, H. Azum, Ameerneemagu, Male'

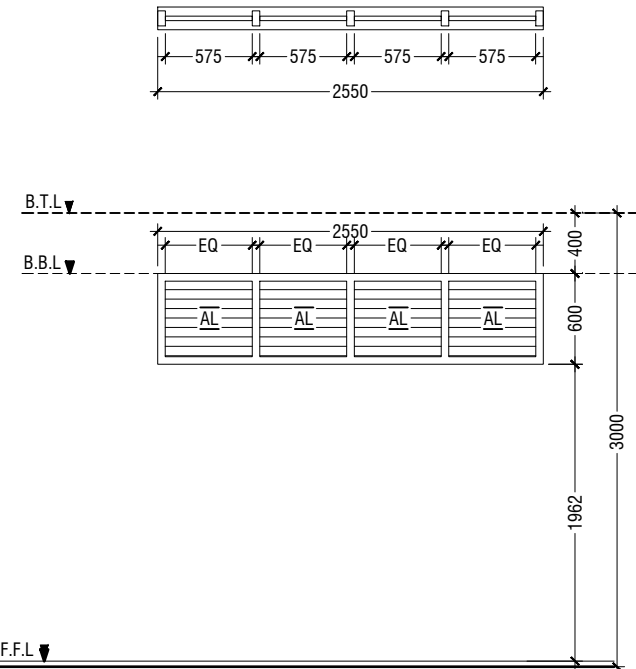
Title: Door / Window  
Schedule - 1

Page: A-09/21

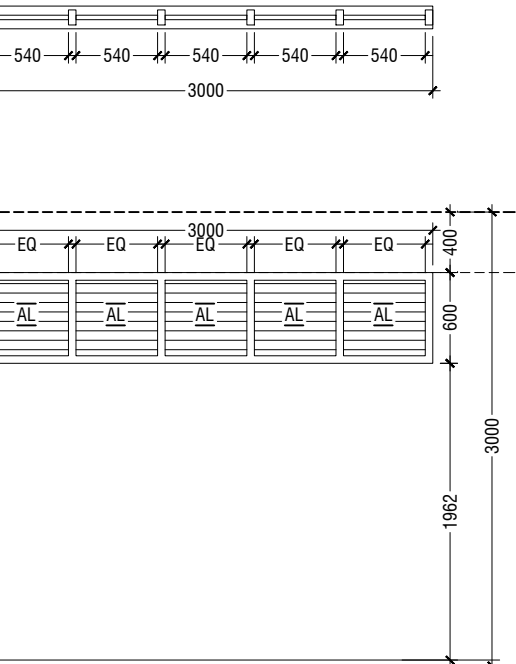
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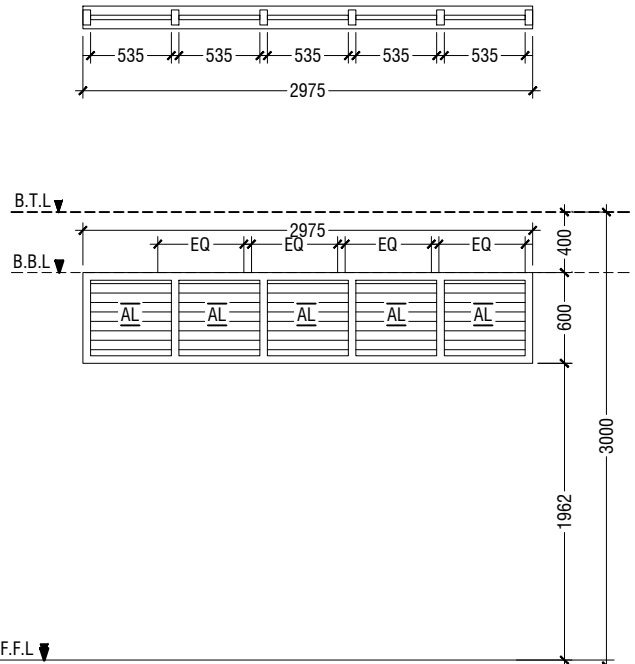
|           |  |
|-----------|--|
| W4        | SWING WINDOW   |
| REMARKS   | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WINDOW WITH 6mm THICK REFLECTIVE GLASS |
| LOCATION  | HALF LANDING STORE ROOM  |
| QUANTITY  | 01 NOS   |
| OPEN AREA | 1.43 sqm   |



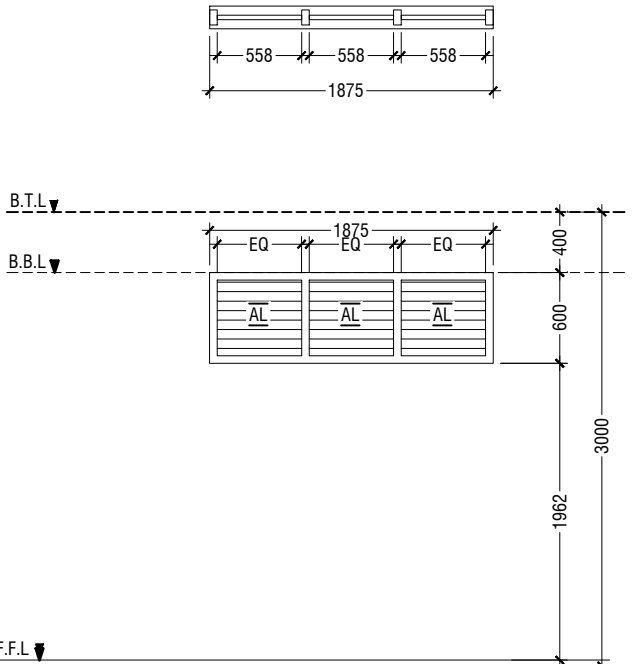
|           |   |
|-----------|---|
| V4        | SUNSHADING  |
| REMARKS   | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS |
| LOCATION  | CORRIDOR  |
| QUANTITY  | 02 NOS  |
| OPEN AREA | 1.15 SQM  |



|           |   |
|-----------|---|
| V1        | SUNSHADING  |
| REMARKS   | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS |
| LOCATION  | CORRIDOR  |
| QUANTITY  | 10 NOS  |
| OPEN AREA | 1.35 SQM  |



|           |   |
|-----------|---|
| V2        | SUNSHADING  |
| REMARKS   | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS |
| LOCATION  | CORRIDOR  |
| QUANTITY  | 02 NOS  |
| OPEN AREA | 1.35 SQM  |

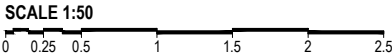


|           |   |
|-----------|---|
| V3        | SUNSHADING  |
| REMARKS   | 50mm THICK WHITE POWDER COATED (60 MICRONS) ALUMINUM FRAMED WITH ALUMINUM LOUVERS |
| LOCATION  | CORRIDOR  |
| QUANTITY  | 02 NOS  |
| OPEN AREA | 0.84 SQM  |

LEGEND:  
CG - CLEAR GLASS  
RG - REFLECTED GLASS  
AL - ALUMINIUM  
PVC - POLYVINYL CHLORIDE

- NOTE:-
- FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES
  - MAINTAIN FLOOR TO WINDOW SILL STANDARD HEIGHT REGULATION OF 1M.
  - REFER TO ARCHITECT FOR FURTHER ASSISTANCE.
  - ALL DOORS & WINDOWS TO BE CHECKED ON SITE BEFORE FABRICATION.
  - ALL DOOR & WINDOWS VIEWED FROM EXTERIOR, FOR DOOR SWING, REFER TO FLOOR PLANS.
  - THE DOORS / WINDOWS WHICH DO NOT TOUCH THE BEAM SHALL HAVE A LINTEL BEAM (LB) ABOVE THE DOOR / WINDOW.
  - FOR ALL THE WINDOWS PUT A SILL BEAM BELOW THE WINDOW
  - FOR SAFETY PURPOSES REFER TO TECHNICAL SPECIFICATIONS FOR GLASS THICKNESS.

## DOOR & WINDOW SCHEDULE - 2



## SCHEDULE OF VENTILATION FOR TH.OMADHOO SCHOOL

| Room name/ Number             | Room Areas (sqm)<br>( Specify centre to<br>centre or clear) | Window (opening<br>number | Required<br>opening<br>areas (sqm) | Designed opening<br>areas (sqm) | Open % |
|-------------------------------|---|---------------------------|------------------------------------|---------------------------------|--------|
| <b>Ground Floor</b>           |   |                           |                                    |                                 |        |
| 1 Science Lab                 | 52.81   | 2W1, 2W2 & 2D1            | 5.28                               | 11.66                           | 22.08% |
| 2 Chemical store room         | 12.50   |                           | Mechanical Ventilation             |                                 |        |
| 3 Health room                 | 40.15   | W1, 2W2 & D1              | 4.02                               | 8.80                            | 21.92% |
| 4 Toilet (F)                  | 12.73   |                           | W3 & RC FINS                       |                                 |        |
| 5 Toilet (M)                  | 9.09  |                           | W3 & RC FINS                       |                                 |        |
| 6 Toilet for disabled         | 5.12  |                           | Mechanical Ventilation             |                                 |        |
| 7 Main switchboard /store     | 11.25   |                           | Mechanical Ventilation             |                                 |        |
| <b>First Floor</b>            |   |                           |                                    |                                 |        |
| 1 Classroom 1                 | 52.81   | 2W1, 2W2 & 2D1            | 5.28                               | 11.66                           | 22.08% |
| 2 Classroom 2                 | 52.81   | 2W1, 2W2 & 2D1            | 5.28                               | 11.66                           | 22.08% |
| 3 Toilet (F)                  | 16.24   |                           | W3 & RC FINS                       |                                 |        |
| 4 Toilet (M)                  | 16.24   |                           | W3 & RC FINS                       |                                 |        |
| 5 Store at half landing level | 7.22  | W4                        | 0.72                               | 1.43                            | 19.81% |

## VENTILATION SCHEDULE

NTS

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

Project Number: RI/2020/006  
Date: April 2021  
Architect : Mariyam Irasha Shareef  
Engineer : Mohamed Muthalib Waleed  
Drawn by : Mariyam Leevan Jaleel  
Services : Aishath Ahmed  
Interior : -

| Rev no | Date  |
|--------|-------|
| --     | ----- |
| --     | ----- |
| --     | ----- |
| --     | ----- |



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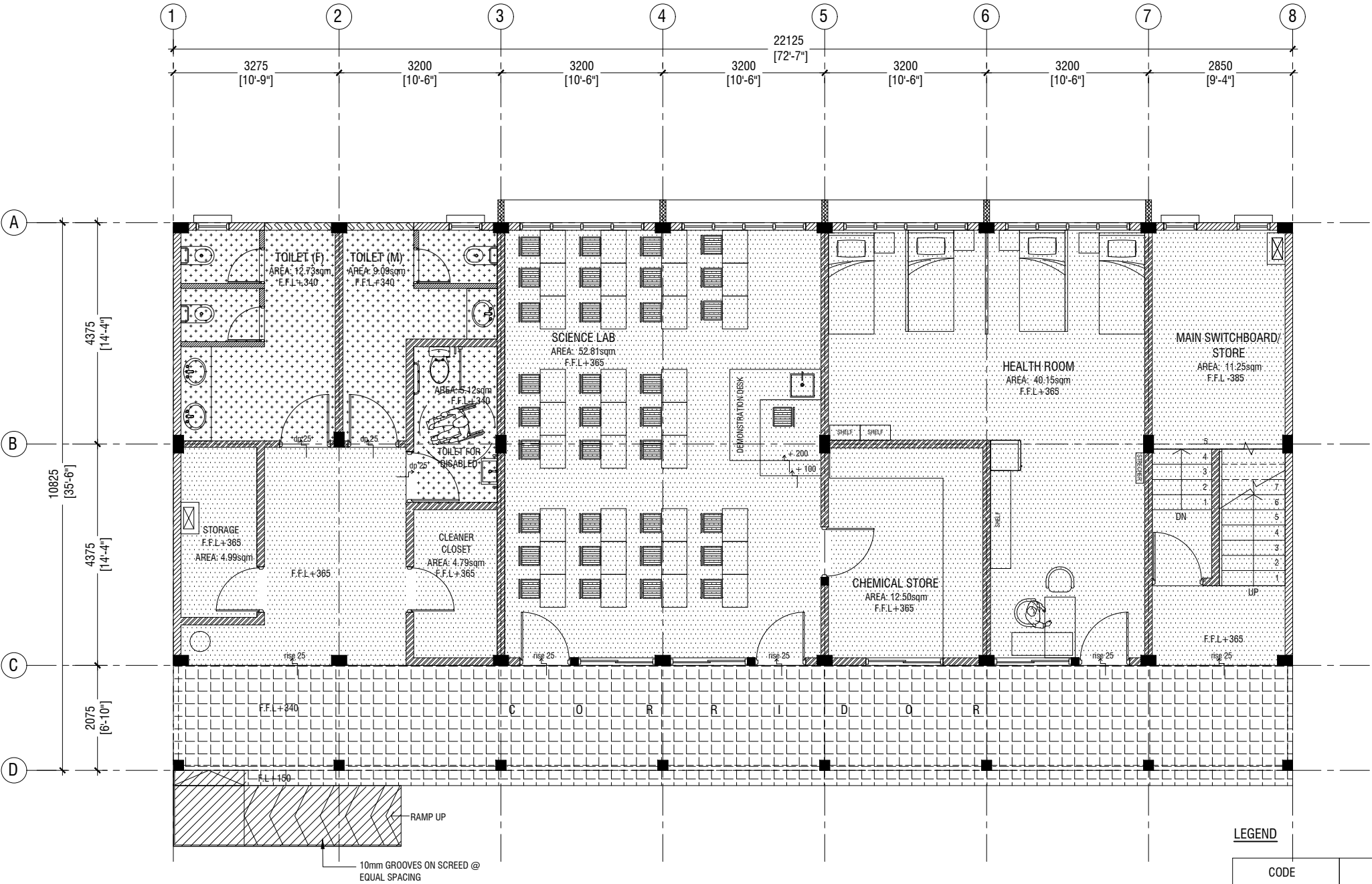
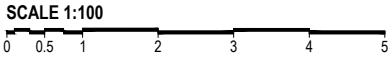
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Title: Door/Window Schedule  
& Ventilation Schedule

Page: A-10/21

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GROUND FLOOR  
FLOOR FINISHES PLAN



| CODE | DESCRIPTION  |
|------|--|
|      | 600X600mm HOMOGENOUS NON-SLIP TILES OVER 50mm SCREEDING  |
|      | 2.5mm SELF LEVELING CEMENT WITH EPOXY FLOOR PAINT (2 COATS OF EPOXY)   |
|      | 300X300mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING  |
|      | 600X600mm HOMOGENOUS NON-SLIP TILES OVER 25mm SCREEDING (CEMENTITIOUS WATERPROOFING: MASTERPEL 588 OR EQUIVALENT ON TOP OF THE SLAB) |

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

Project Number: RI/2020/006  
Date: April 2021  
Architect: Mariyam Irasha Shareef  
Engineer: Mohamed Muththalib Waleed  
Drawn by: Mariyam Leevan Jaleel  
Services: Ashraf Ahmed  
Interior: -

| Rev no | Date |
|--------|------|
| -      | -    |
| -      | -    |
| -      | -    |



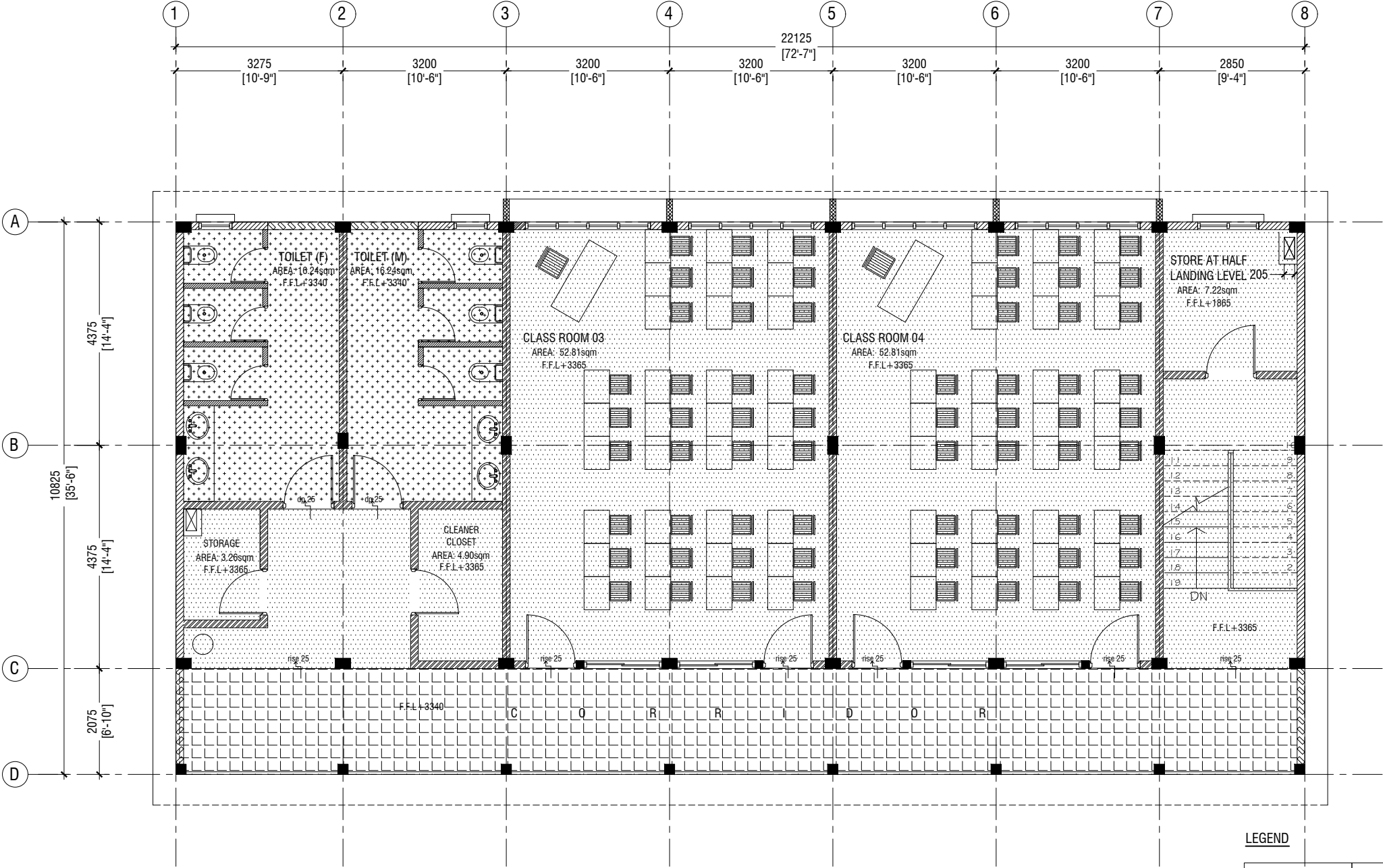
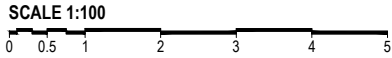
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Title: Ground Floor  
Floor Finish Plan

Page: A-11/21

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FIRST FLOOR  
FLOOR FINISHES PLAN



| LEGEND |   |
|--------|---|
| CODE   | DESCRIPTION   |
|        | 600X600mm HOMOGENOUS NON-SLIP TILES<br>OVER 50mm SCREEDING  |
|        | 300X300mm HOMOGENOUS NON-SLIP TILES<br>OVER 25mm SCREEDING  |
|        | 600X600mm HOMOGENOUS NON-SLIP TILES<br>OVER 25mm SCREEDING (CEMENTITIOUS<br>WATERPROOFING: MASTERPEL 588 OR<br>EQUIVALENT ON TOP OF THE SLAB) |

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education

|                                     |        |       |
|-------------------------------------|--------|-------|
| Project Number: RI/2020/006         | Rev no | Date  |
| Date: April 2021                    | --     | ----- |
| Architect: Mariyam Irasha Shareef   | --     | ----- |
| Engineer: Mohamed Muththaliq Waleed | --     | ----- |
| Drawn by: Mariyam Leevan Jaleel     | --     | ----- |
| Services: Alshath Ahmed             | --     | ----- |
| Interior: -                         | --     | ----- |

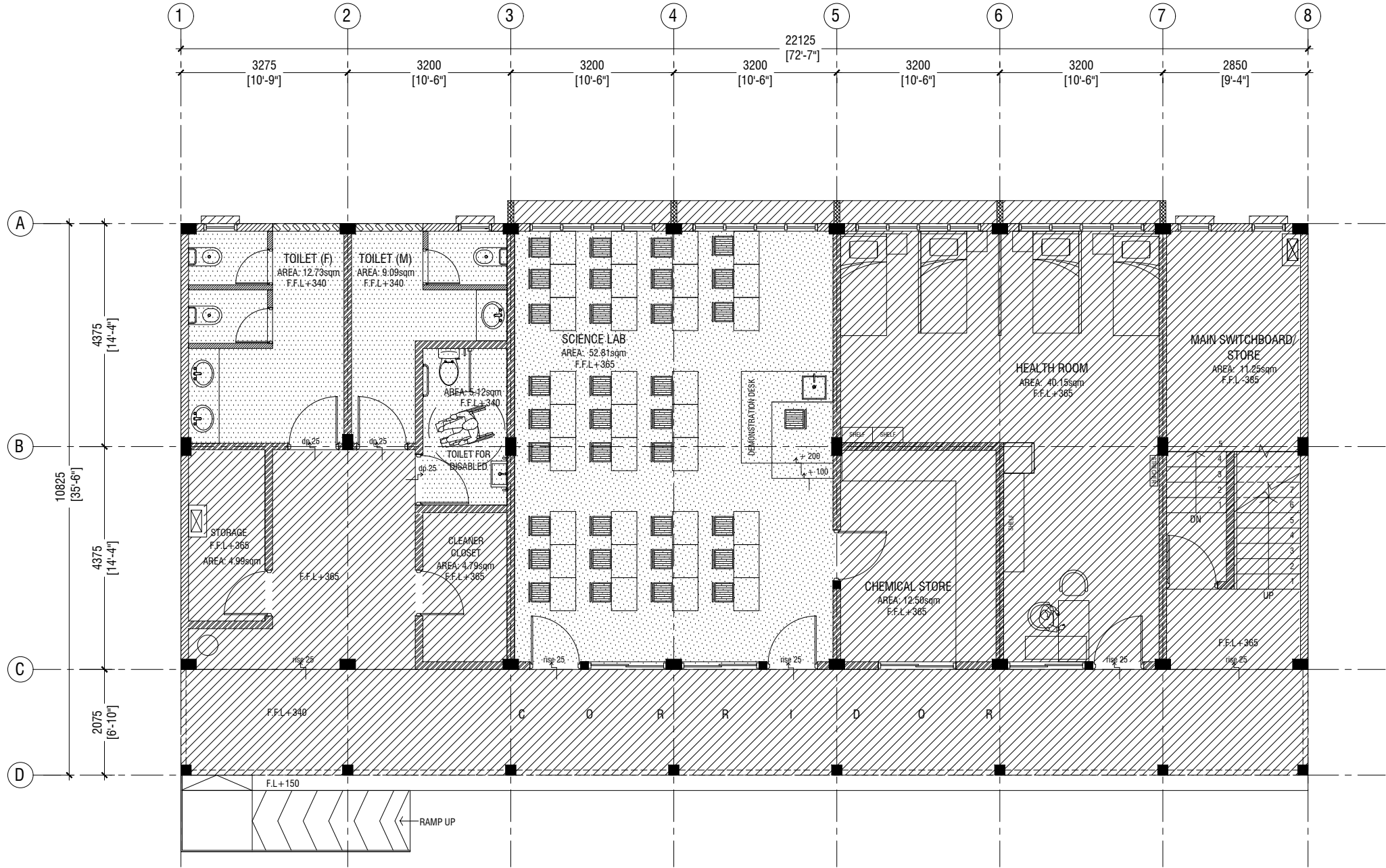
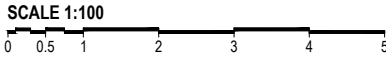
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w : www.riyan.com.mv  
3rd floor, H. Azumi, Ameenemogulu, Male'

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GROUND FLOOR  
REFLECTED CEILING PLAN



LEGEND

| CODE | DESCRIPTION   |
|------|---|
|      | EXPOSED SLAB SOFFIT TO BE GROUND SMOOTH IN SELECT PAINT FINISH ( ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT) |
|      | 6mm THICK CEMENT BOARD ON ROOF EAVE/GABLE CEILING (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT)               |

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

|                                   |        |       |
|-----------------------------------|--------|-------|
| Project Number: RV/2020/006       | Rev no | Date  |
| Date: April 2021                  | --     | ----- |
| Architect: Mariyam Irasha Shareef | --     | ----- |
| Engineer: Mohamed Muthalib Waleed | --     | ----- |
| Drawn by: Mariyam Leevan Jaleel   | --     | ----- |
| Services: Ashraf Ahmed            | --     | ----- |
| Interior: -                       | --     | ----- |

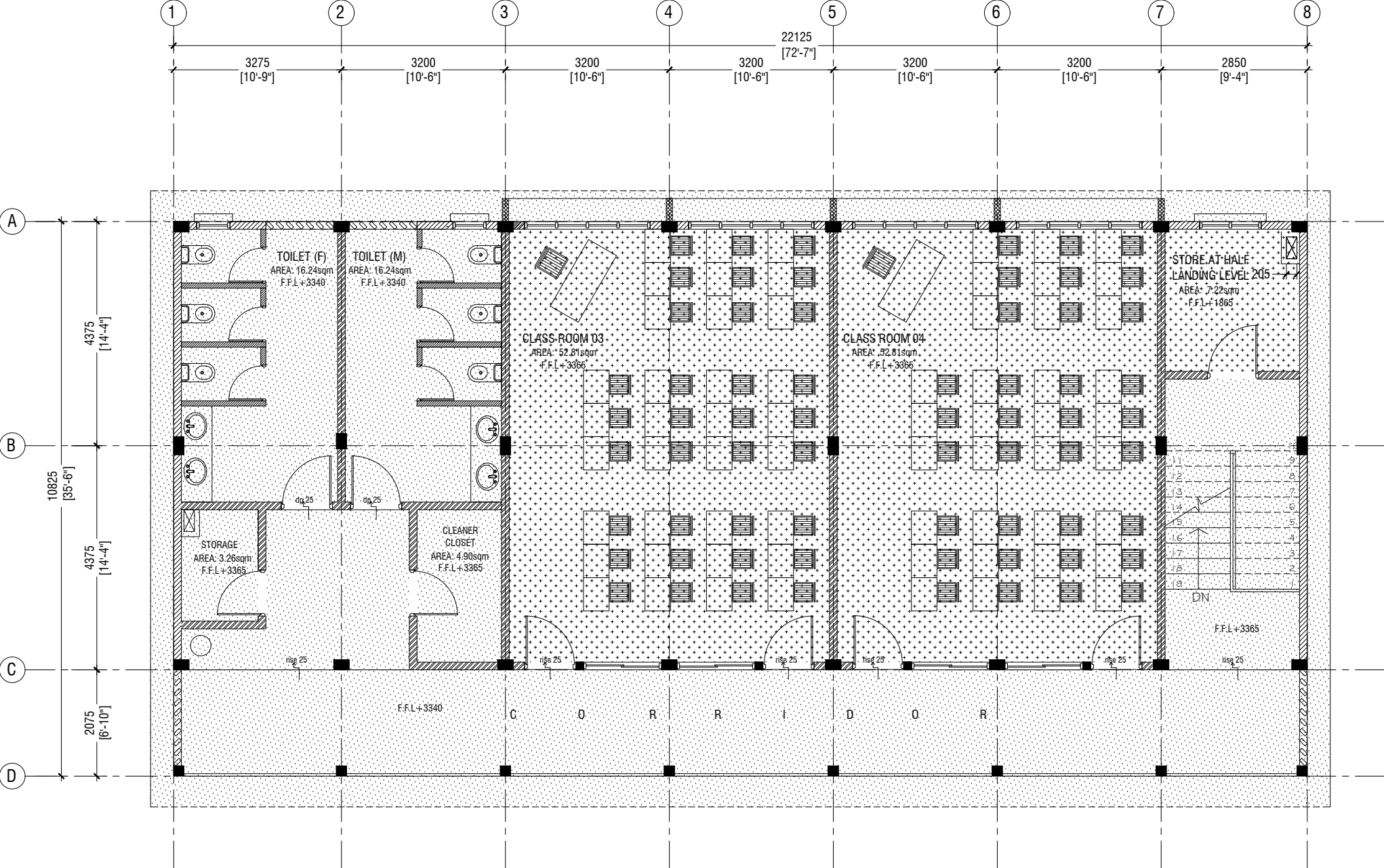
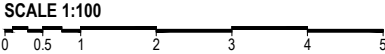
  
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3rd floor, H. Azum, Ameeremaguu, Male'

Title: Ground Floor Reflected Ceiling Plan

Page: A-13/21

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FIRST FLOOR  
REFLECTED CEILING PLAN



LEGEND

| CODE | DESCRIPTION   |
|------|---|
|      | 9mm THICK FIXED CEILING 'BORAL' OR EQUIVALENT PLASTERBOARD CEILING SYSTEM WITH TIMBER FRAMES, APPLIED WITH GROUND SMOOTH FINISH IN SELECTED PAINT |
|      | 6mm THICK CEMENT BOARD ON ROOF EAVE/GABLE CEILING (ONE COAT OF PUTTY FOLLOWED BY SEALER AND 2 COATS OF PAINT)                                     |

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education

|                                   |        |      |
|-----------------------------------|--------|------|
| Project Number: RI/2020/006       | Rev no | Date |
| Date: April 2021                  | --     | ---- |
| Architect: Mariyam Irasha Shareef | --     | ---- |
| Engineer: Mohamed Muthalib Waleed | --     | ---- |
| Drawn by: Mariyam Leevan Jaleel   | --     | ---- |
| Services: Aishath Ahmed           | --     | ---- |
| Interior: -                       | --     | ---- |



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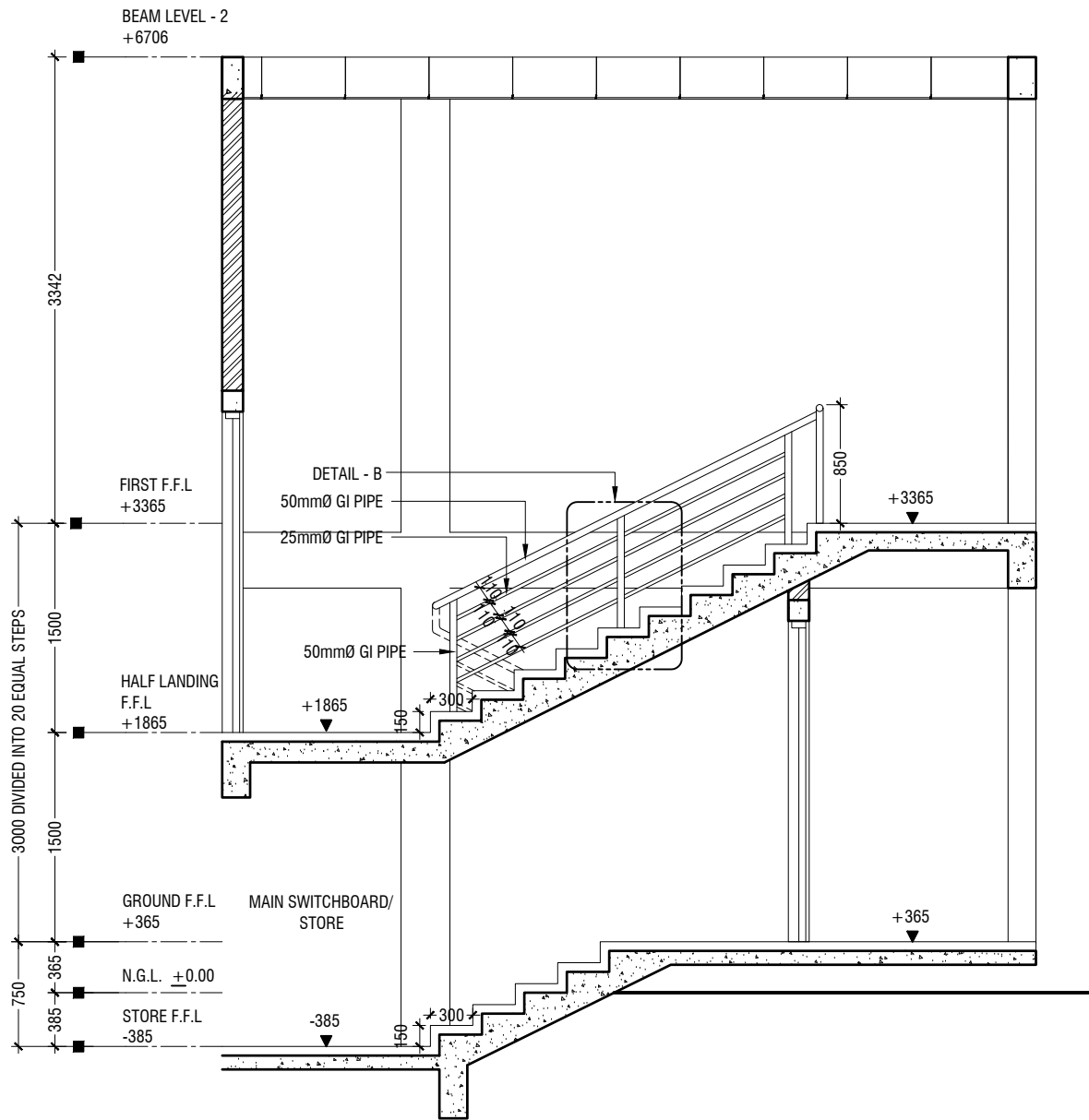
t: +9603315049 f: +9603310776  
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w: www.ryan.com.mv  
3rd floor, H. Azum, Ameenemagau, Male'

Title: First Floor Reflected Ceiling Plan

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## SECTION A-A

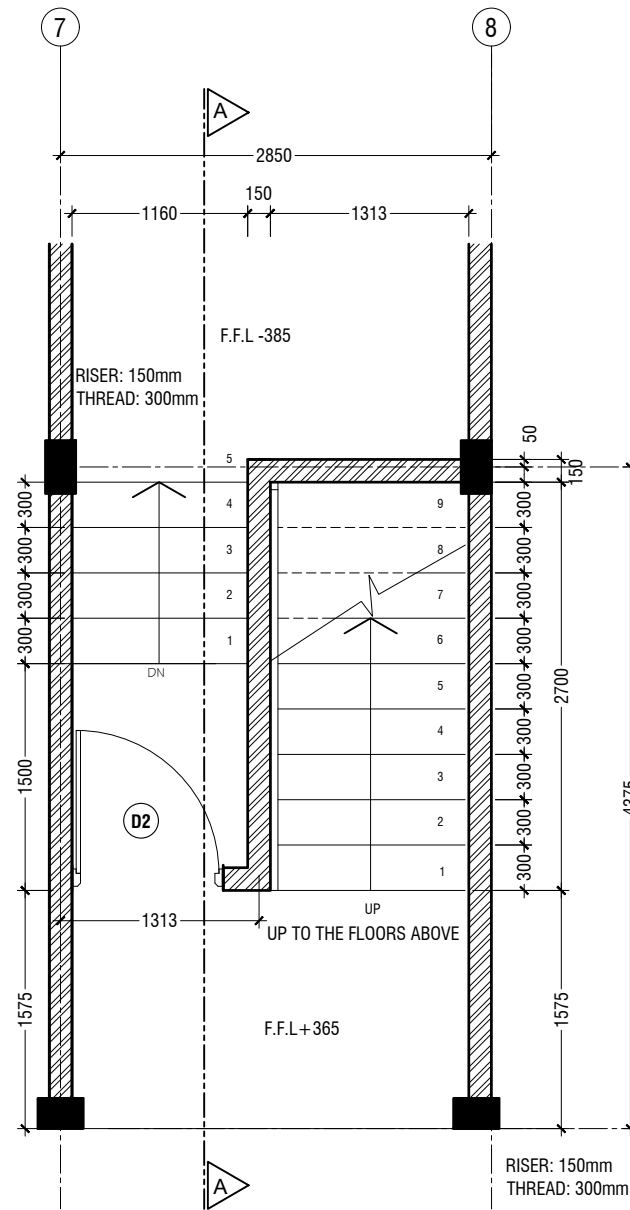
SCALE 1:50



## DETAIL - 1

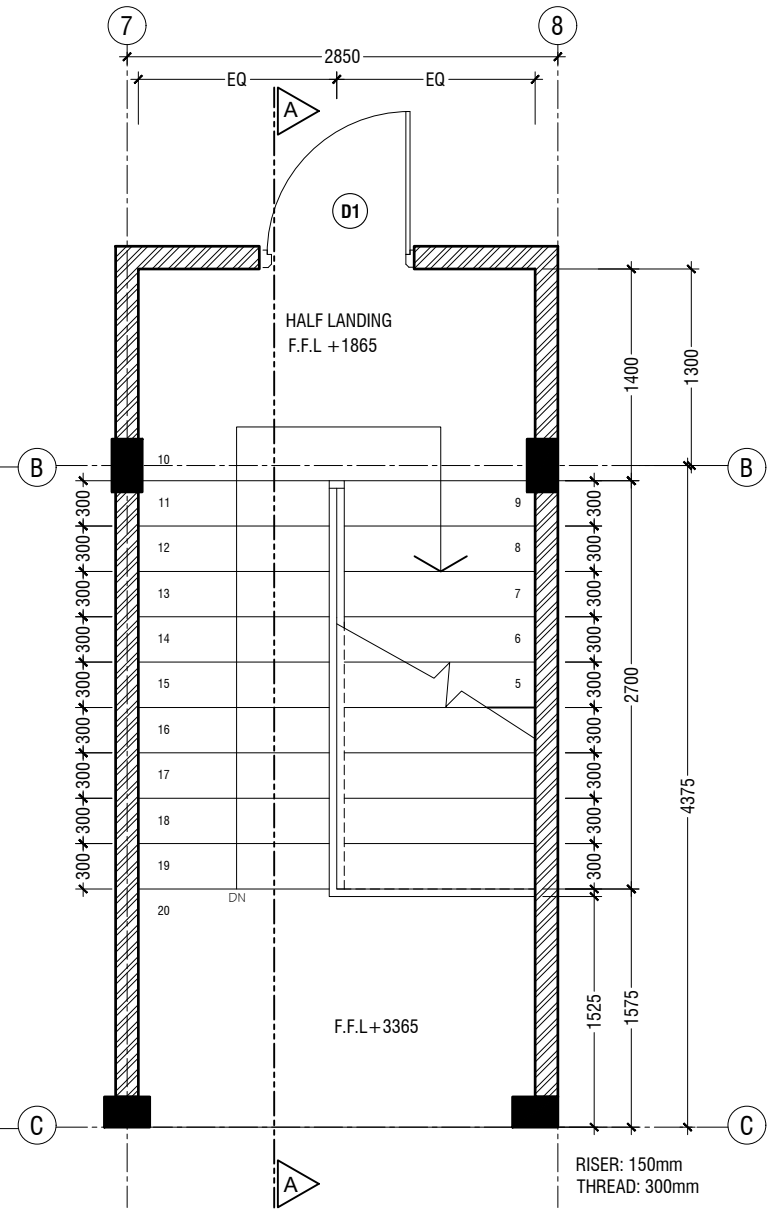
## STAIRCASE DETAILS

SCALE 1:20



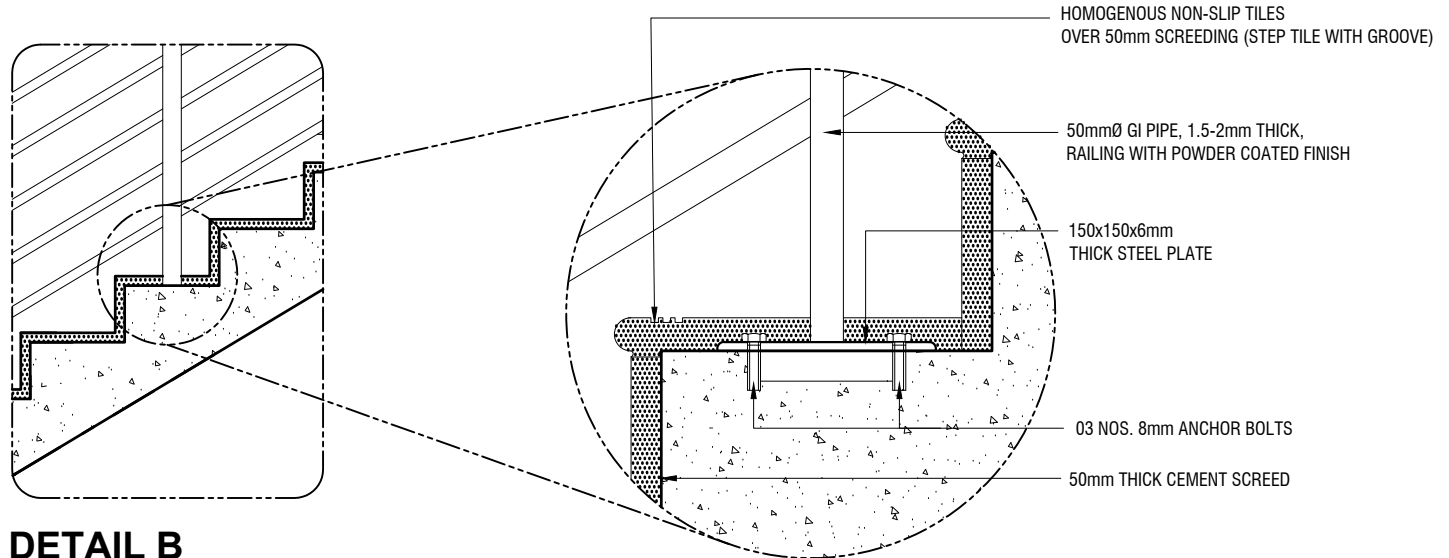
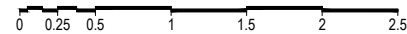
## GROUND FLOOR STAIRCASE PLAN

SCALE 1:50



## TYPICAL STAIRCASE PLAN

SCALE 1:50



## DETAIL B

SCALE 1:20



Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education

Project Number: RI/2020/006  
Date: April 2021  
Architect: Mariyam Irasha Shareef  
Engineer: Mohamed Muthalib Waleed  
Drawn by: Mariyam Leevan Jaleel  
Services: Aishah Ahmed  
Interior: -

| Rev no | Date |
|--------|------|
| -      | -    |
| -      | -    |
| -      | -    |
| -      | -    |



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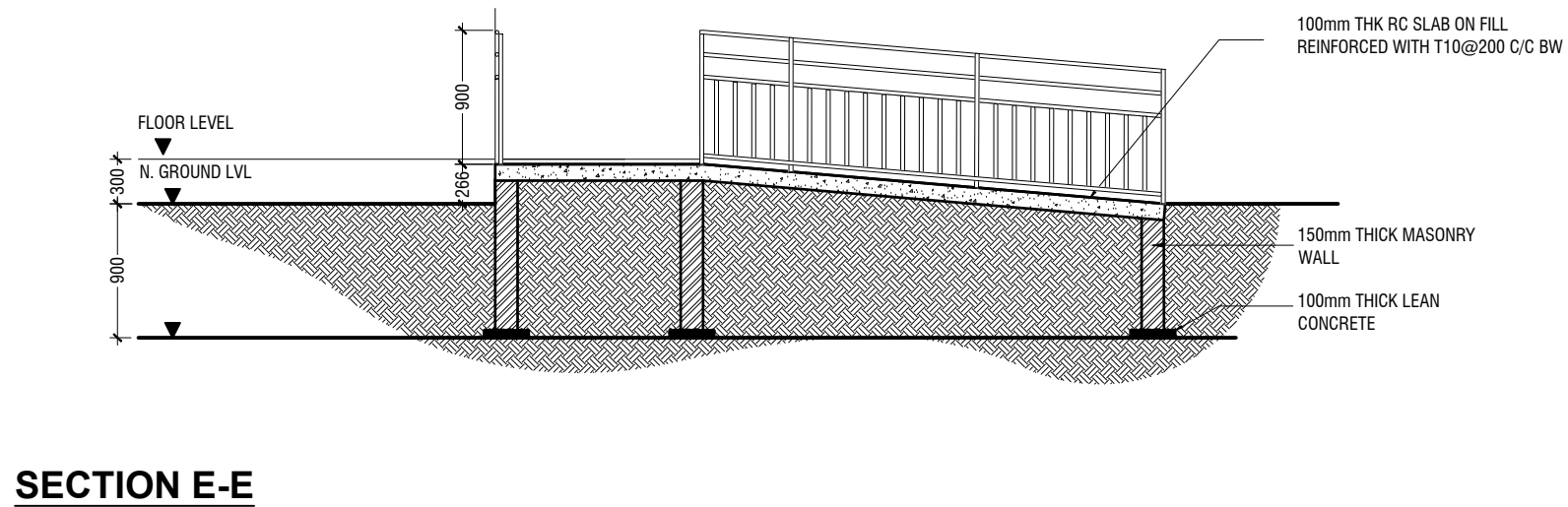
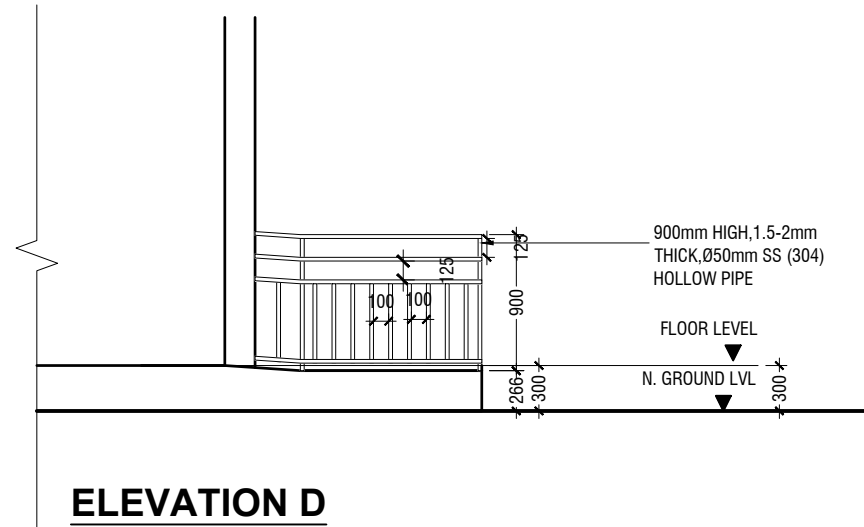
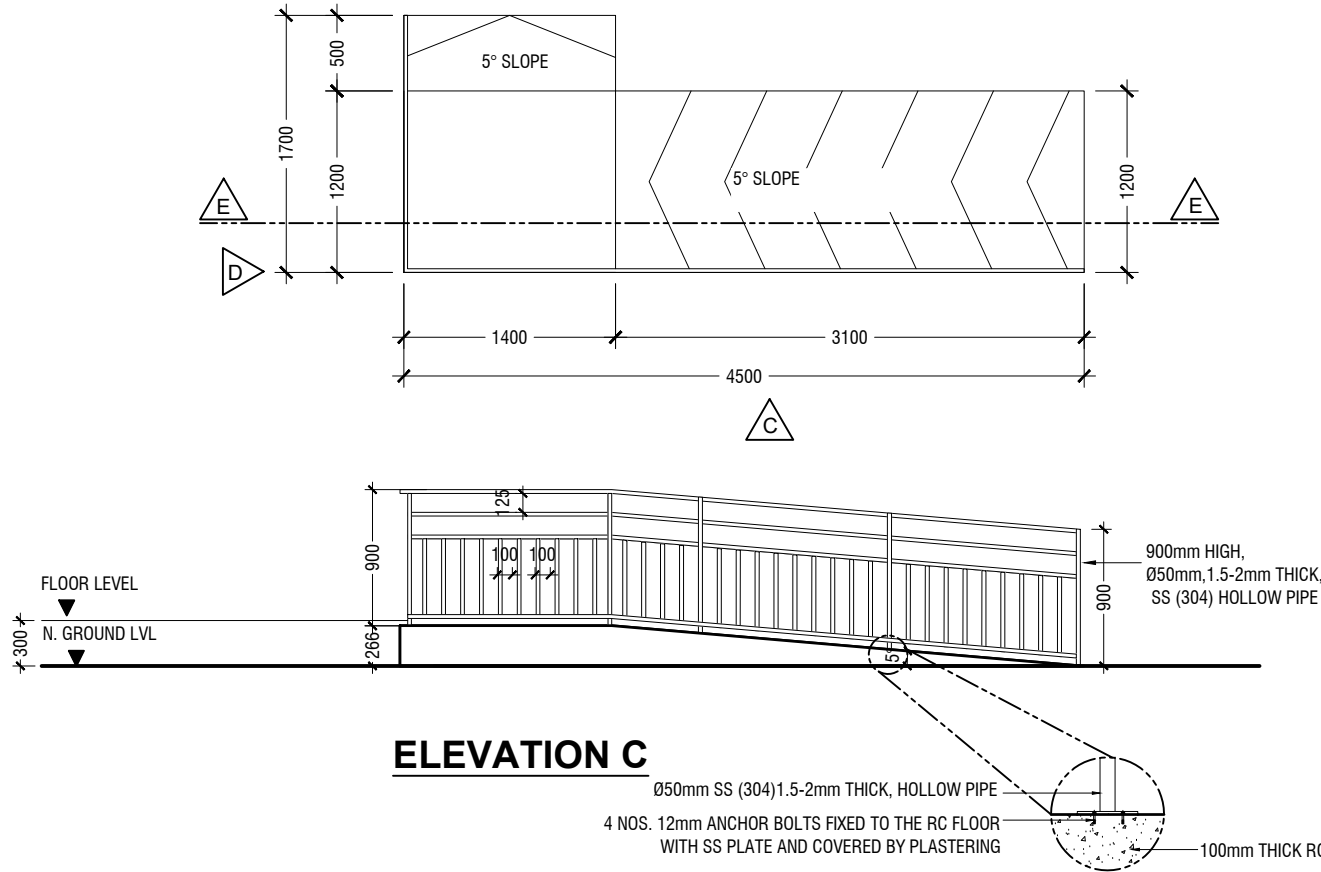
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3rd floor, H. Azum, Ameenemagau, Male'

Title: Staircase Details

Page: A-15/21

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**DETAIL - 2**  
**MAIN ENTRANCE RAMP DETAILS**  
 SCALE 1:50



Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
 Client: Ministry of Education

| Rev no | Date |
|--------|------|
| 1      | 1    |
| 2      | 2    |
| 3      | 3    |
| 4      | 4    |
| 5      | 5    |
| 6      | 6    |
| 7      | 7    |
| 8      | 8    |
| 9      | 9    |
| 10     | 10   |

Project Number: RI/2020/006  
 Date: April 2021  
 Architect: Maryam Irasha Shareef  
 Engineer: Mohamed Muthalib Waleed  
 Drawn by: Maryam Leevan Jaleel  
 Services: Aishath Ahmed  
 Interior: -



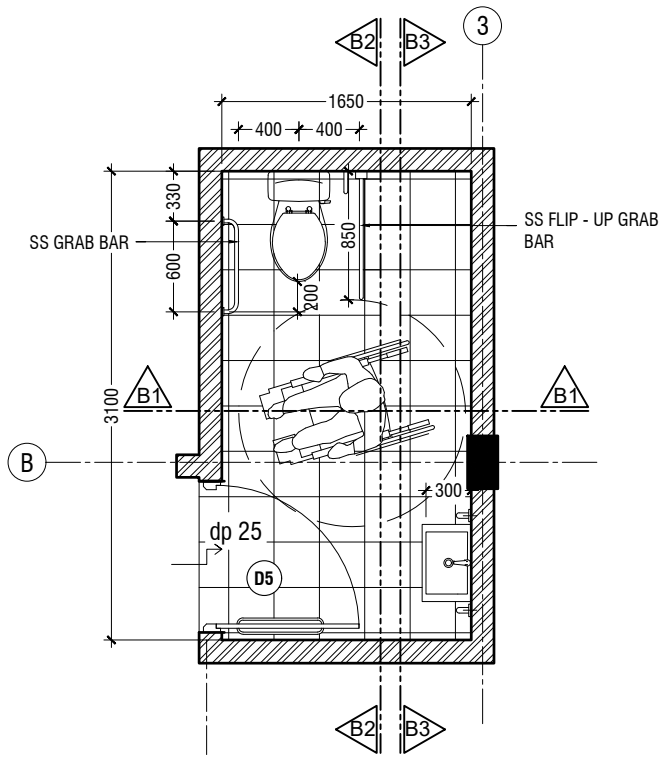
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 3rd floor, H. Azum, Ameenemagau, Male'

Title: Ramp Details

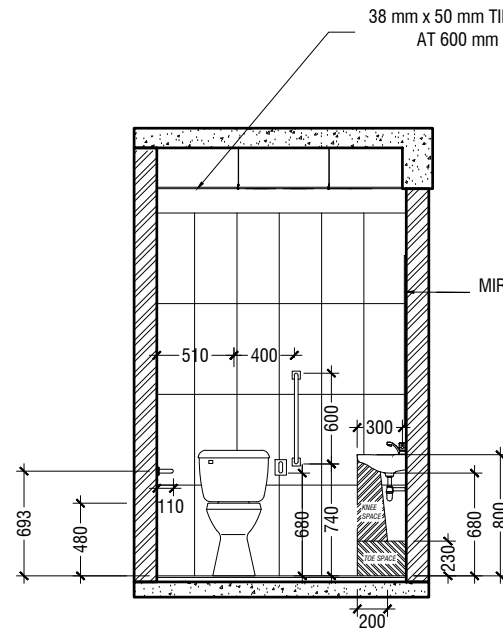
Page: A-16/21

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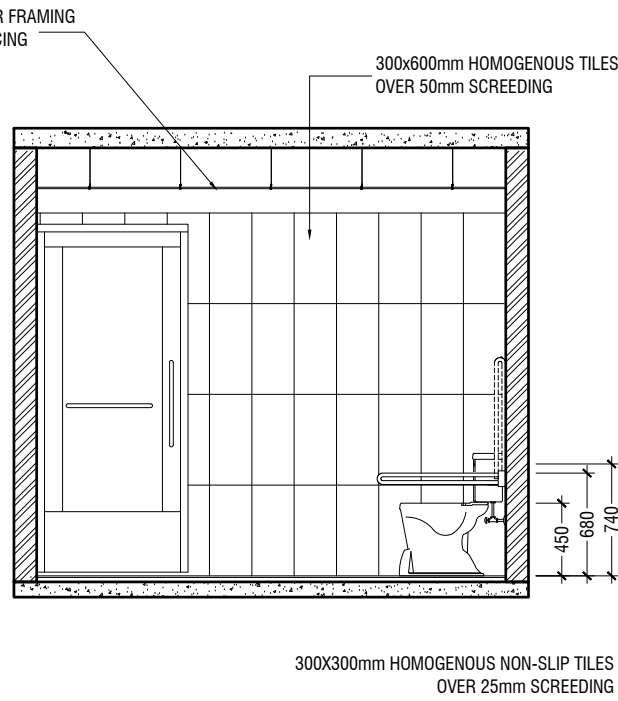
**TOILET FOR PERSONS WITH DISABILITIES PLAN**

SCALE 1:50



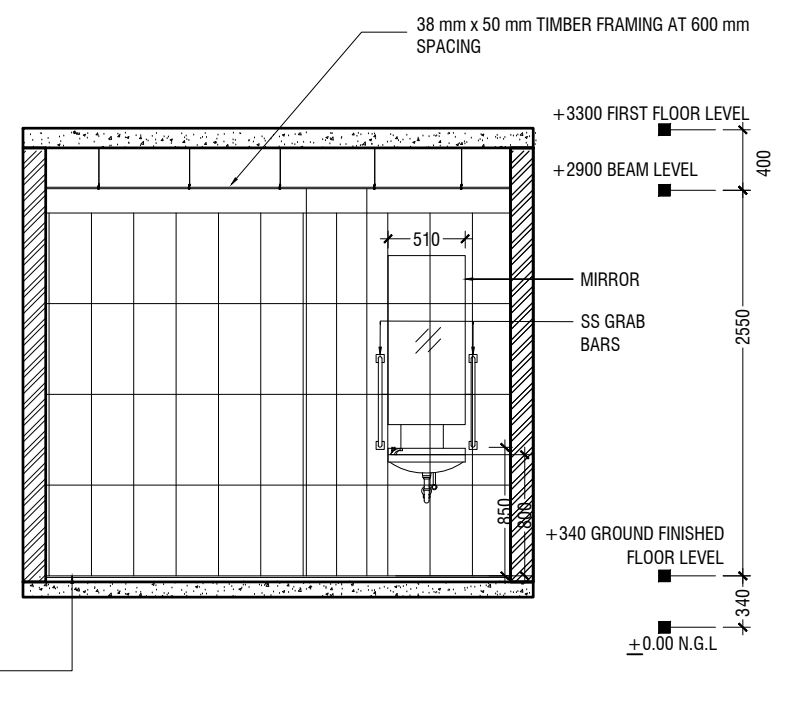
**SECTION B1-B1**

SCALE 1:50



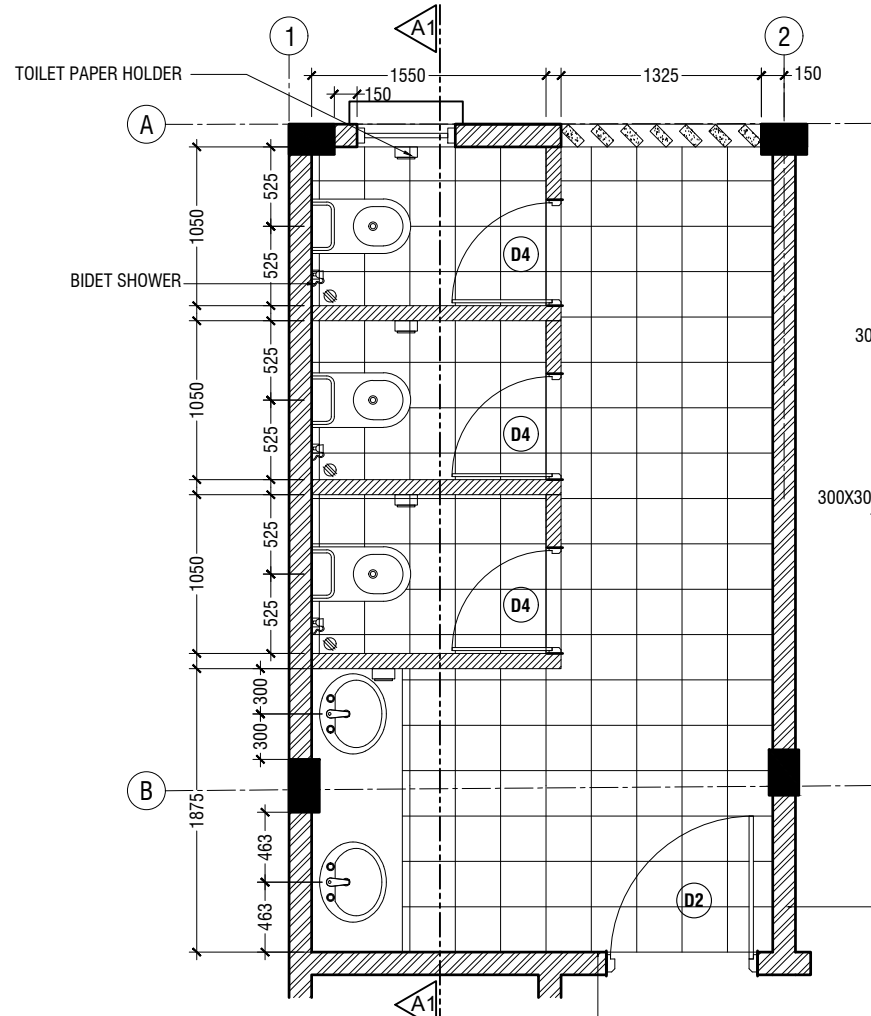
**SECTION B2-B2**

SCALE 1:50



**SECTION B3-B3**

SCALE 1:50

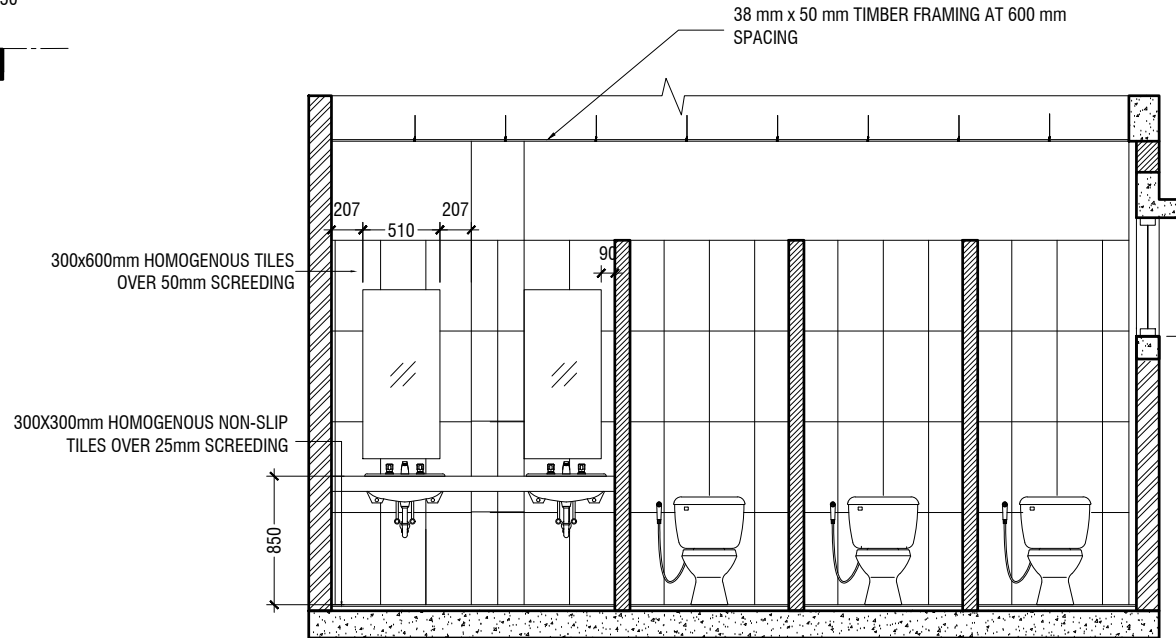


**TYPICAL TOILET PLAN**

SCALE 1:50

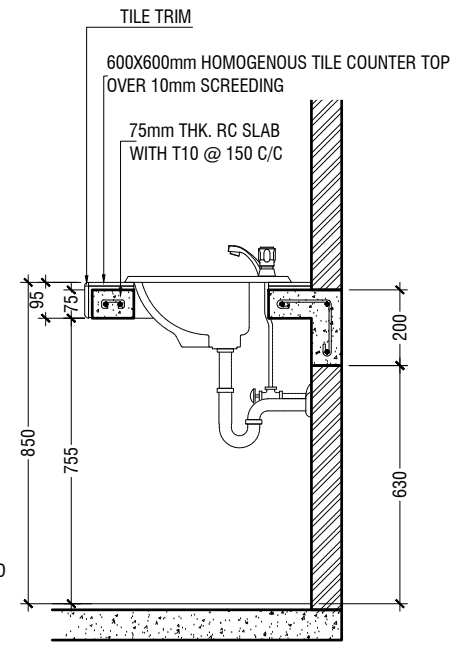


300x600mm HOMOGEOUS TILES OVER 50mm SCREEDING ( FULLY TILED AS THE OTHER WALLS)



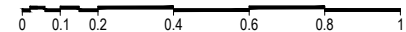
**SECTION A1-A1**

SCALE 1:50



**COUNTER TOP DETAILS**

SCALE 1:20



NOTE:  
ALL THE MATERIALS FOR FIXTURES SHALL BE APPROVED BY THE ARCHITECT/CONSULTANT BEFORE INSTALLATION

GRAB BARS OF THE DISABLE TOILET SHALL BE AS PER MANUFACTURE'S DETAIL

**DETAIL - 3  
TOILET DETAILS**

SCALE 1:50

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education

Project Number: RI/2020/006  
Date: April 2021  
Architect: Mariyam Irasha Shareef  
Engineer: Mohamed Muthalib Waleed  
Drawn by: Mariyam Leevan Jaleel  
Services: Aishath Ahmed  
Interior: -

| Rev no | Date |
|--------|------|
| 1      | 1    |
| 2      | 2    |
| 3      | 3    |
| 4      | 4    |
| 5      | 5    |



RYAN PRIVATE LIMITED

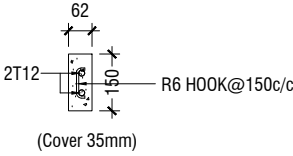
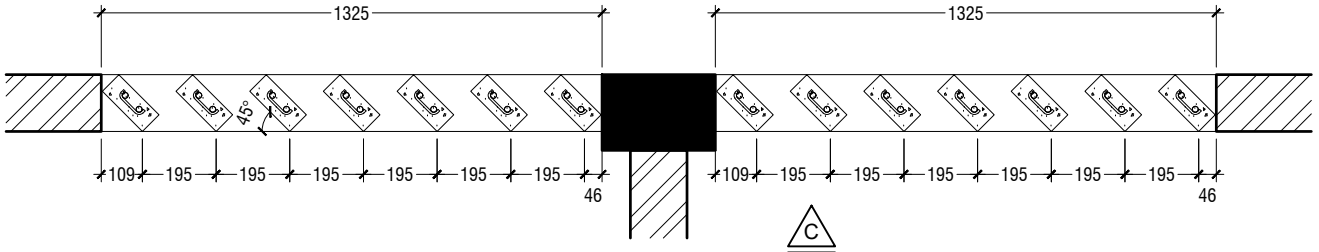
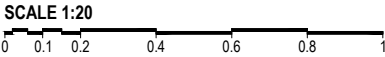
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e: info@ryan.com.mv  
w: www.ryan.com.mv  
3rd floor, H. Azum, Ameeeneemagu, Male'

Title: Typical Toilet Details

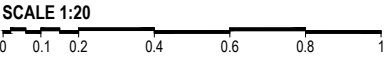
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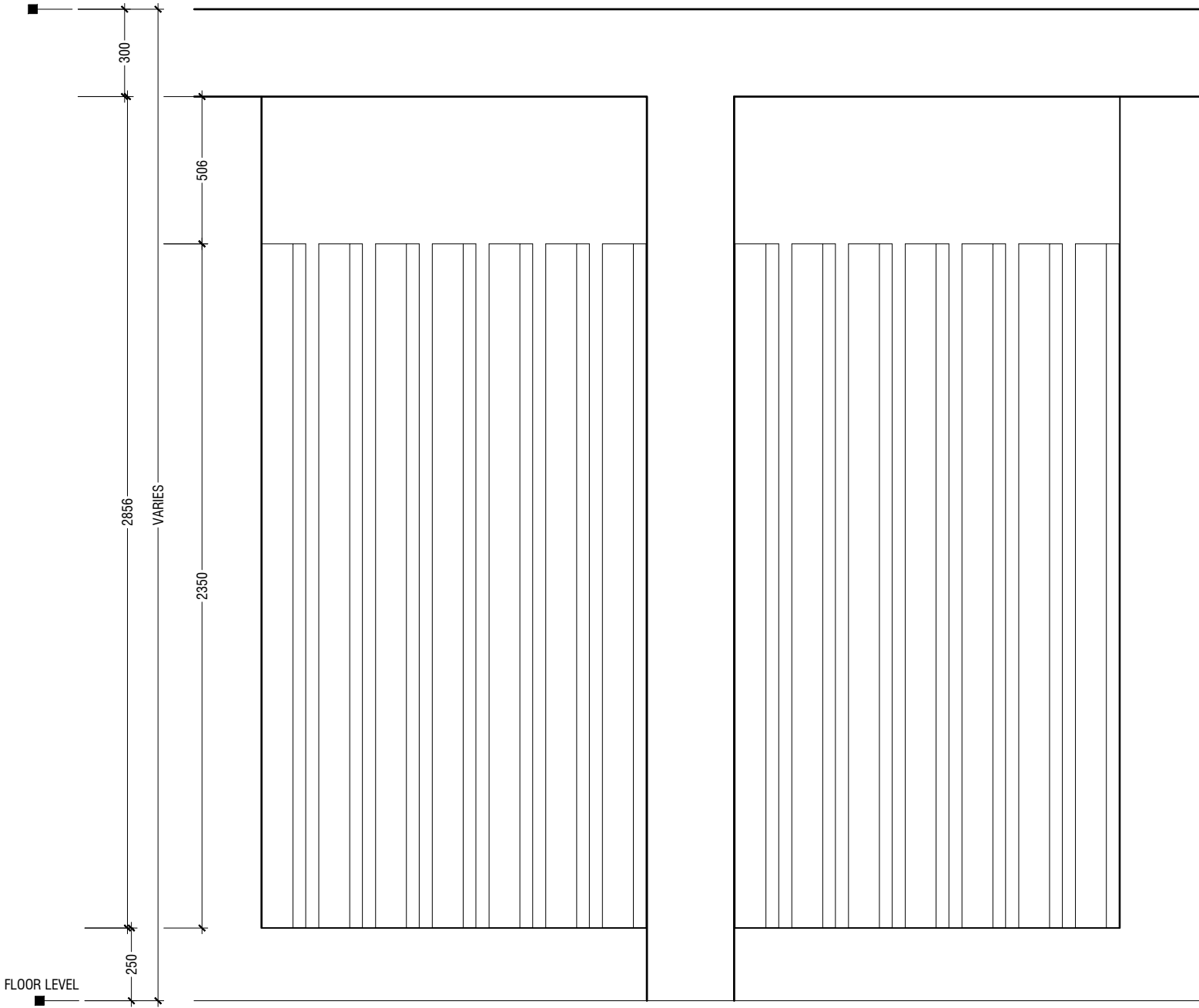
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RC FIN DETAIL

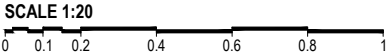


ROOF BEAM LEVEL -2



FLOOR LEVEL

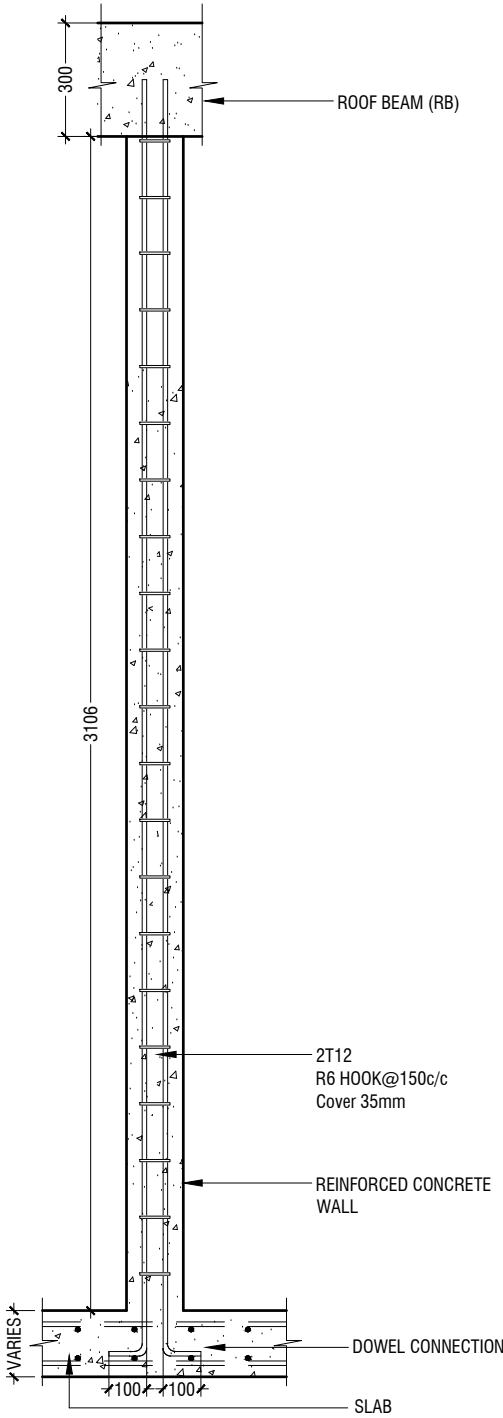
ELEVATION - C



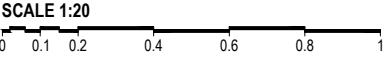
NOTE:-  
FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES

DETAIL - 4

RC FIN DETAILS (TOILET)



SECTION C-C



Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

|                                     |        |       |
|-------------------------------------|--------|-------|
| Project Number: RI/2020/006         | Rev no | Date  |
| Date: April 2021                    | --     | ----- |
| Architect: Manyam Irasha Shareef    | --     | ----- |
| Engineer: Mohamed Muththalib Waleed | --     | ----- |
| Drawn by: Manyam Leevan Jaleel      | --     | ----- |
| Services: Aishath Ahmed             | --     | ----- |
| Interior: -                         | --     | ----- |



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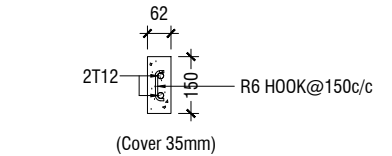
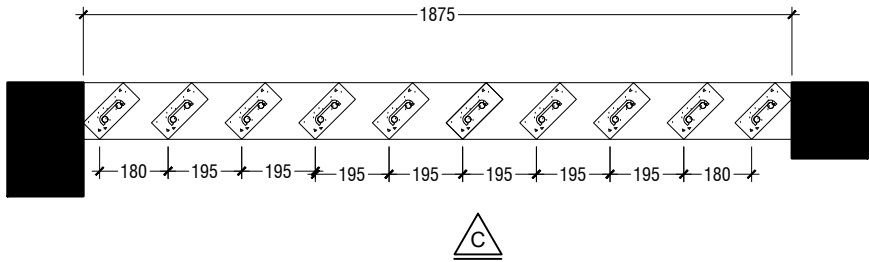
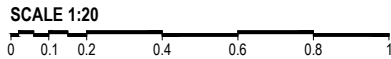
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w: www.riyan.com.mv  
3rd floor, H. Azum, Ameenemmagu, Male'

Title: RC Fins Details

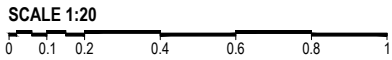
Page: A-18/21

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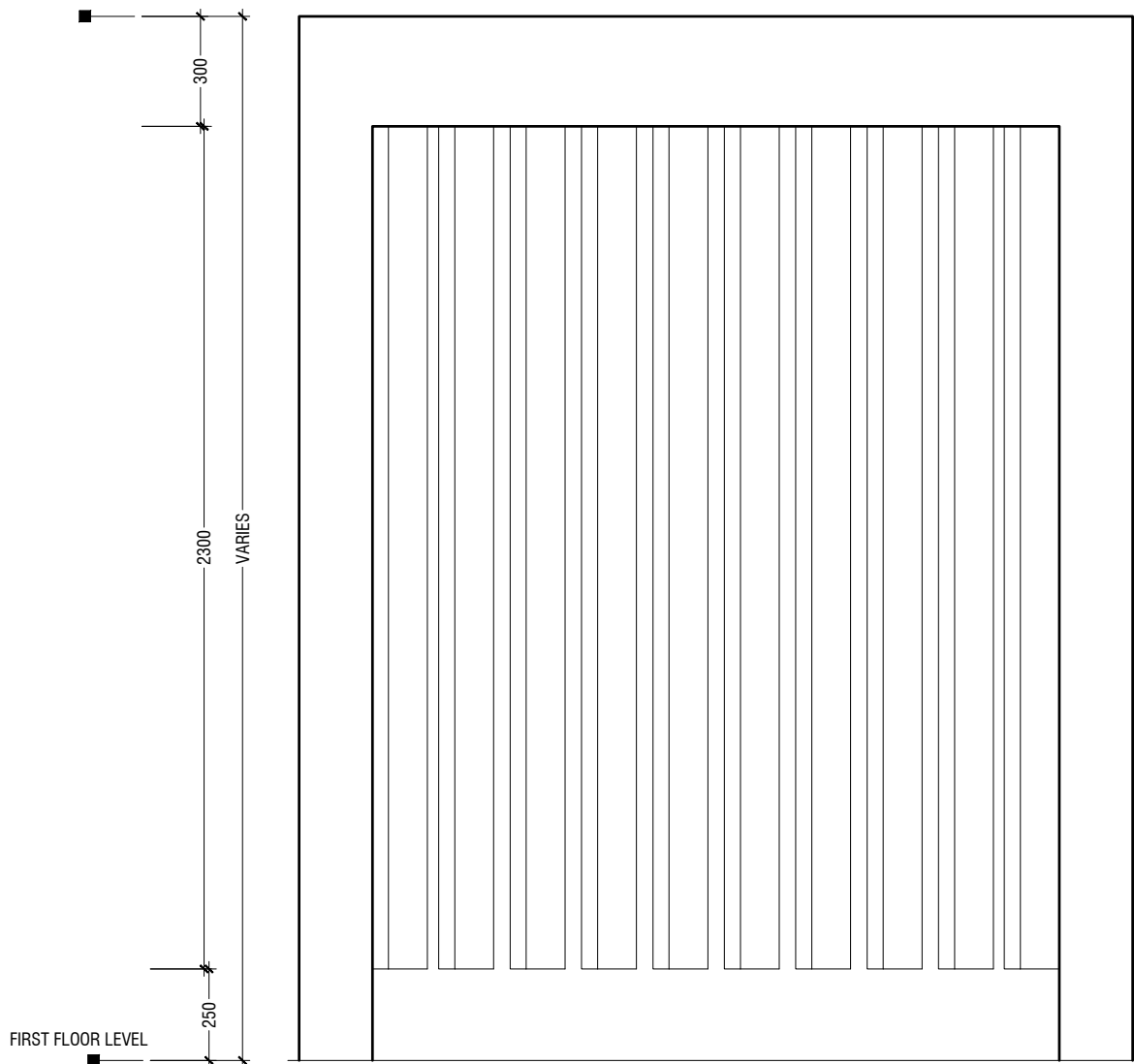
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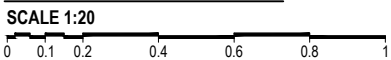
RC FIN DETAIL



ROOF BEAM LEVEL - 1



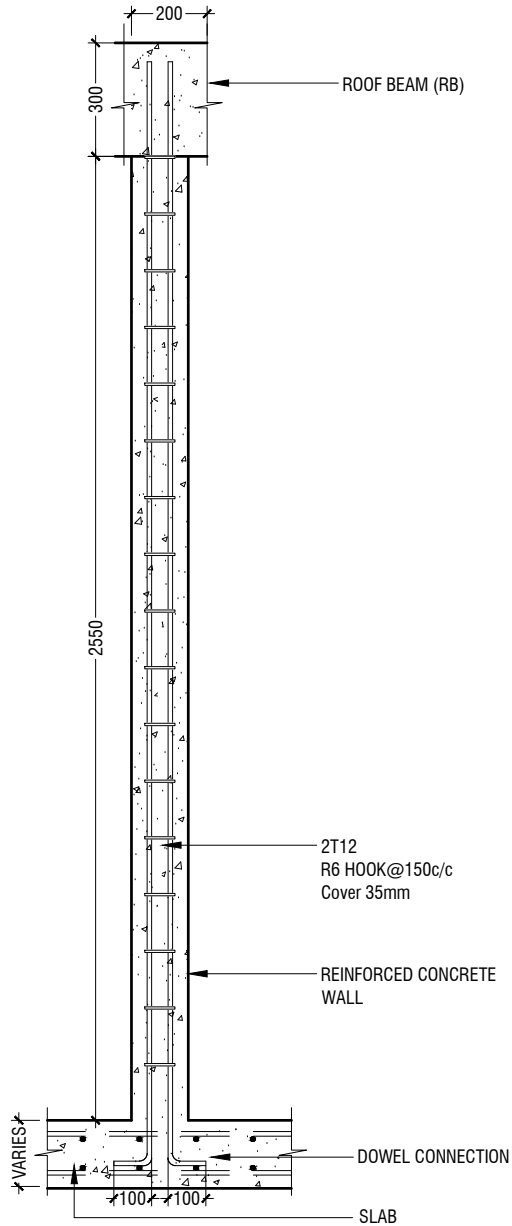
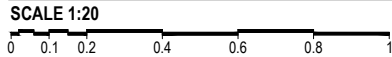
ELEVATION - C



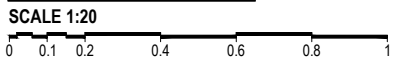
NOTE:-  
FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES

DETAIL - 5

RC FIN DETAILS (CORRIDOR)



SECTION C-C



Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

|                                    |        |       |
|------------------------------------|--------|-------|
| Project Number: RI/2020/006        | Rev no | Date  |
| Date: April 2021                   | --     | ----- |
| Architect : Mariyam Irasha Shareef | --     | ----- |
| Engineer : Mohamed Muthalib Waleed | --     | ----- |
| Drawn by : Mariyam Leevan Jaleel   | --     | ----- |
| Services : Aishath Ahmed           | --     | ----- |
| Interior : -                       | --     | ----- |



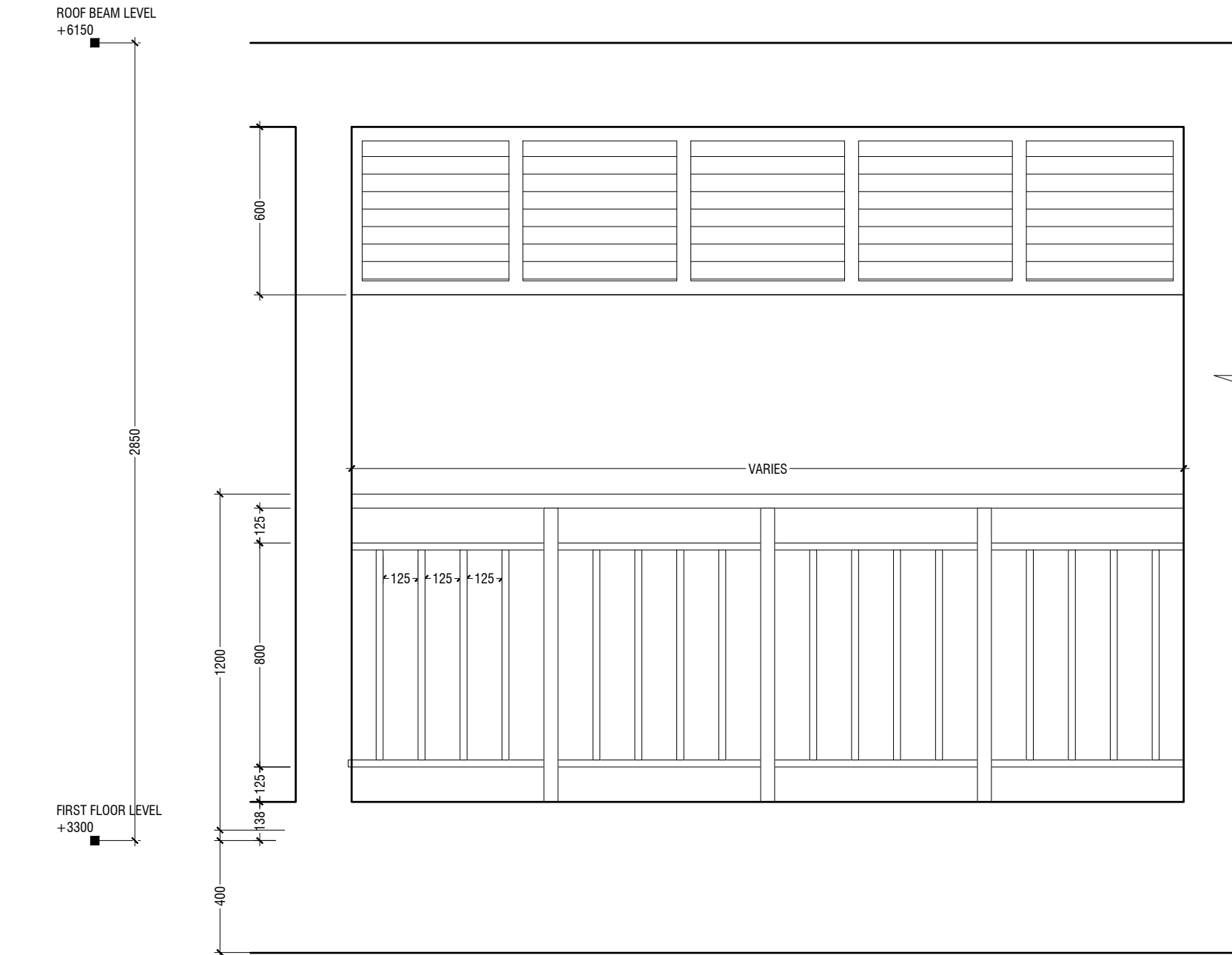
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3rd floor, H. Azum, Ameerseemagu, Male'

Title: RC Fins Detail

Page: A-19/21

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## ELEVATION

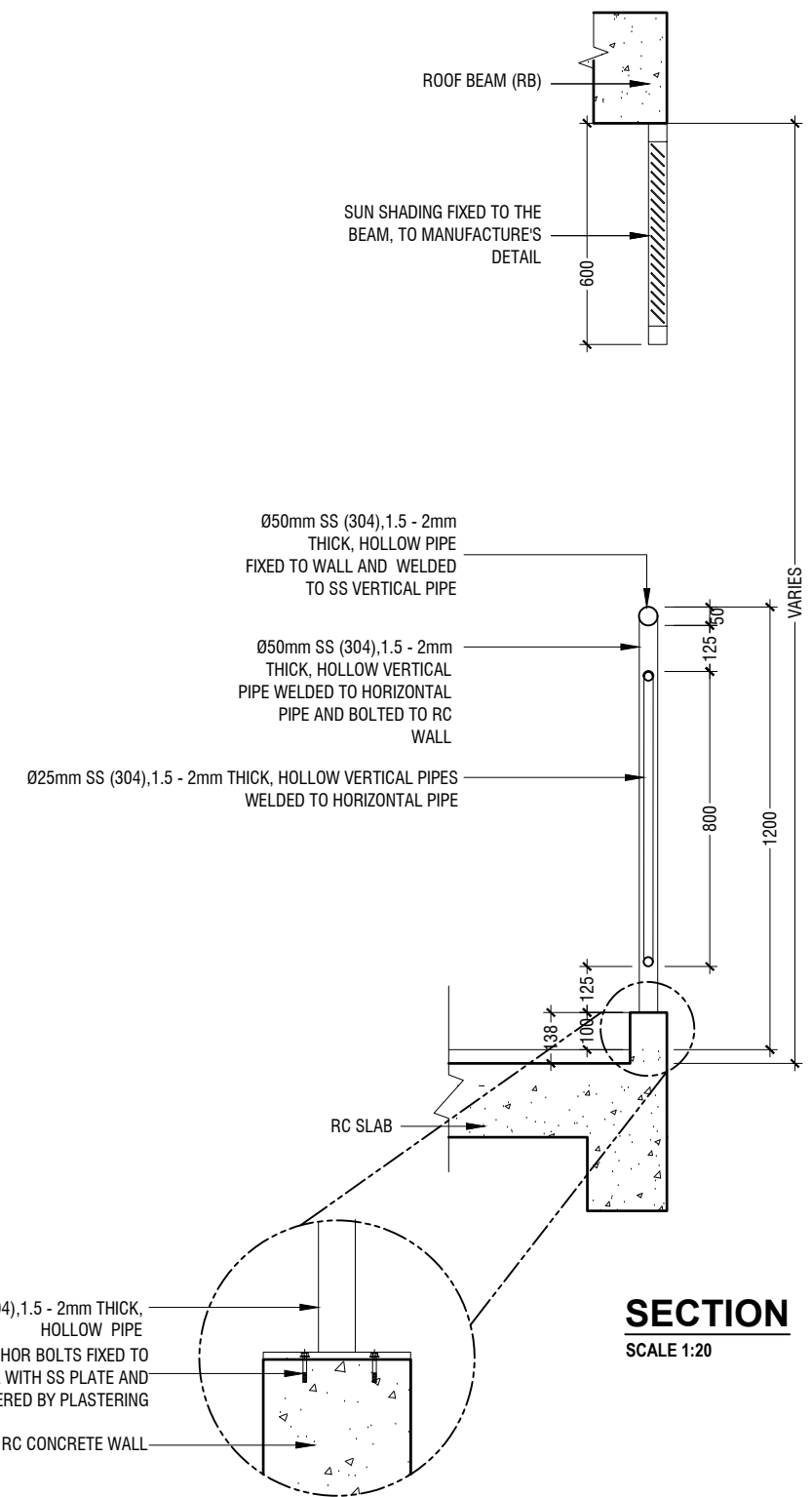
**SCALE 1:20**

NOTE:-  
FLOOR TO FLOOR HEIGHT VARIES AND WILL BE SUBJECTED TO CHANGES

### DETAIL - 6

## RAILING DETAILS

**SCALE 1:20**



Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education

Client: Ministry of Education

Project Number: RI/2020/006  
Date: April 2021

**Architect :** Mariyam Irasha Sh

Engineer : Mohamed Muththalib Wa

Drawn by : Mariyam Leevan Jaleel

Services : Aishath Ahmed  
Interior : -

interior : -

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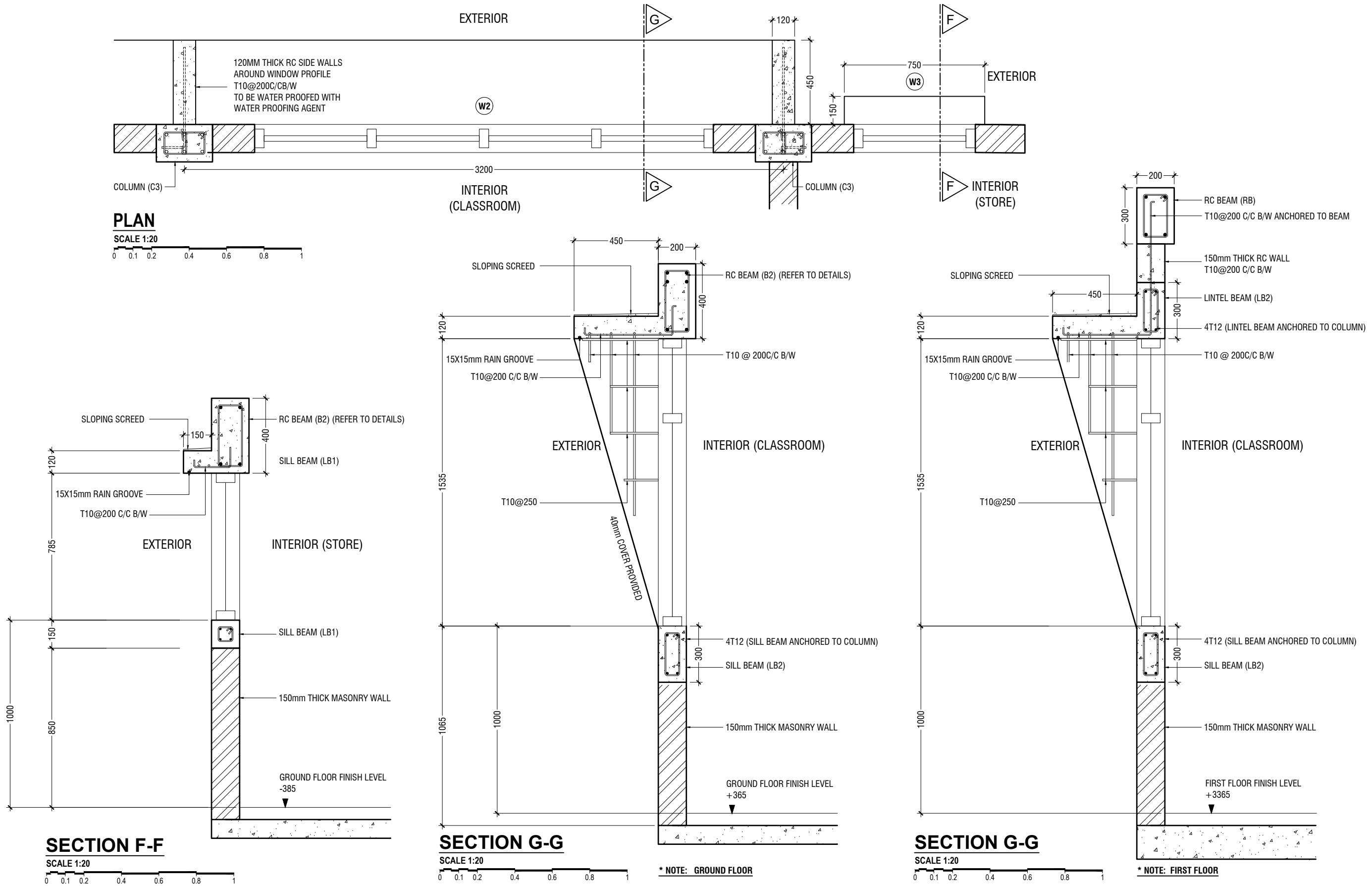
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rd floor, H. Azum, Ameenemagu, Male'

w : [www.riyan.com.mv](http://www.riyan.com.mv)

rd floor, H. Azum, Ameeneemagu,

---

Title: Railing Detail



Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education

| Project Number:                    | Rev no | Date |
|------------------------------------|--------|------|
| RI/2020/006                        |        |      |
| Date: April 2021                   |        |      |
| Architect : Mariyam Irasha Shareef |        |      |
| Engineer : Mohamed Muthalib Waleed |        |      |
| Drawn by : Mariyam Leevan Jaleel   |        |      |
| Services : Ashath Ahmed            |        |      |
| Interior : -                       |        |      |



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3rd floor, H. Azum, Ameerseemagui, Male'

Title: RC Wall details

Page: A-21/21

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GENERAL NOTES

THE GENERAL NOTES SHALL BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS AND DRAWINGS. REGARDLESS OF WHETHER OR NOT SHOWN IN DRAWINGS OR OTHER TENDER DOCUMENTS, THE STANDARD PROVISIONS SPECIFIED HEREUNDER FOR COMPLIANCE BY THE CONTRACTOR SHALL APPLY TO ALL RELEVANT PORTIONS OF THE STRUCTURAL WORKS AND SHALL FORM PART OF THIS CONTRACT.

1.0 VERIFICATION OF DIMENSIONS AND LEVELS

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LEVELS ON SITE, AND RESOLVE ALL DISCREPANCIES WITH THE ARCHITECT OR ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- DRAWING INDICATES GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE OF SIMILAR CHARACTER TO DETAILS SHOWN AND ALTHOUGH NOT SPECIFICALLY INDICATED, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECTED TO REVIEW BY THE ENGINEER.
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LEVELS IN THE CONTRACT DRAWINGS.
- DISCREPANCIES IN DRAWINGS ARISING FROM SUCH VERIFICATION WORKS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.

2.0 SHOP DRAWINGS

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING TOTAL COORDINATION OF ALL WORKS AND SHALL TAKE SITE MEASUREMENTS PRIOR TO THE PREPARATION OF ANY SHOP DRAWINGS OR BEFORE COMMENCING FABRICATION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL SPECIALIST TRADES, SUCH AS PRESTRESSING, CURTAIN WALLING, ETC. FOR REVIEWS AND COMMENTS BY THE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK. SUCH SHOP DRAWINGS SUBMITTED SHALL INCORPORATE ALL NECESSARY CONNECTION DETAILS TO THE STRUCTURAL MEMBERS SUCH AS CAST-IN INSERTS, EMBEDDED PLATES, ETC.

3.0 INCORPORATION OF M&E REQUIREMENTS IN THE STRUCTURE

- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING TOTAL COORDINATION OF STRUCTURAL, M & E PENETRATION DRAWINGS OF SERVICES AND SUBMIT SUCH SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEWS AND APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- THESE SHOP DRAWINGS SHALL INCORPORATE ALL MECHANICAL, ELECTRICAL AND SANITARY WORKS TO BE EMBEDDED IN CONCRETE AND ALL OPENINGS FOR ALL PIPE OR DUCT WORKS, BASED ON THE REQUIREMENTS OF M & E DRAWINGS IN HIS POSSESSION.
- HE SHALL CHECK AND RESOLVE ALL DISCREPANCIES WITH THE RESPECTIVE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

4.0 LEAN CONCRETE FOR SUSPENDED STRUCTURES

- UNLESS OTHERWISE STATED, 50 MM THICK LEAN CONCRETE WITH A MINIMUM 28-DAY CUBE STRENGTH OF 15N/MM2 SHALL BE PROVIDED ON ALL SOIL SURFACES FORMING THE UNDERSIDE OF STRUCTURAL CONCRETE MEMBERS.

5.0 STRUCTURAL ELEMENTS ON GRADE

- UNLESS OTHERWISE STATED, A SINGLE LAYER OF 0.25 MM(HEAVY DUTY) POLYTHENE SHEET, OR EQUIVALENT THERMOPLASTIC MATERIAL, LAID OVER A COMPACTED 60 MM THICK LAYER OF HARD CORE BLINDED WITH SAND TO PREVENT GROUT LOSS FROM SEEPAGE INTO THE GROUND SHALL BE PROVIDED ON ALL SOIL SURFACES FORMING THE UNDERSIDE OF THE NON-SUSPENDED SLABS.

6.0 SUBGRADE UNDER STRUCTURAL ELEMENTS

- WHERE THE CONTRACTOR REQUIRES REMOVAL AND SUBSEQUENT BACKFILL OF SUBGRADE PRIOR TO CASTING OF PILECAP/WALL/BEAM/SLAB, HE SHALL ENSURE THAT THE BACKFILL IS OF APPROVED MATERIAL AND THAT THE BACKFILL SHALL BE REASONABLY COMPACTED TO ENSURE THAT THE COMPACTED SOIL IS ABLE TO WITHSTAND THE WEIGHT OF THE WET CONCRETE. THE CONTRACTOR SHALL EXERCISE PROPER SKILL AND CARE TO AVOID DAMAGE TO ADJACENT INSTALLED STRUCTURES ARISING FROM HIS CONSTRUCTION SEQUENCE.

7.0 WATERPROOFING FOR STRUCTURES

- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND METHOD STATEMENTS FOR THE ENGINEER'S APPROVAL PRIOR TO COMMENCEMENT OF WORK. REQUIRED SHOP DRAWING DETAILS INCLUDE BUT ARE NOT LIMITED TO TREATMENT OF FLASHINGS, WATERSTOP AT CONSTRUCTION JOINTS, WALL AND SLAB PENETRATIONS.
- ALL PENETRATIONS THROUGH STRUCTURAL ELEMENTS SHALL BE CAST-IN, SLEEVED AND PROVIDED WITH APPROVED PUDDLE FLANGE DETAIL. IF FOR ANY REASON THE CONTRACTOR IS UNABLE TO LAY WATERSTOP AT CONSTRUCTION JOINTS AS INDICATED IN THE DRAWINGS, HE SHALL AT HIS OWN EXPENSES PROVIDE ADEQUATE GROUT TUBES FOR WATERPROOF PRESSURE GROUTING TO ENSURE WATERTIGHTNESS OF THE JOINT.
- ALL GROUT TUBES SHALL BE MARKED AND PROTECTED FROM BLOCKAGE.
- BACKFILLING OPERATIONS AGAINST VERTICAL SURFACE SHALL BE CARRIED OUT AS SOON AS THE WATERPROOFING BARRIER IS INSTALLED TO THE SATISFACTION OF THE ENGINEER.

8.0 CASTING LAYERS

- INCLINED CASTING LAYERS AND INCLINED CONSTRUCTION JOINTS SHALL BE AVOIDED.
- HORIZONTAL CASTING LAYERS SHALL NOT IN GENERAL EXCEED 0.6 M THICKNESS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

9.0 FOUNDATIONS

- ALL FOUNDATIONS HAS BEEN DESIGNED FOR SAFE GROUND PRESSURE OF 150 KN/M.
- ALL BACKFILL SHOULD BE DONE WITH MATERIALS APPROVED BY THE CONSULTANT AND SOURCE. ALL BACKFILL SHOULD BE STRUCTURAL FILL, COMPACTED IN LAYERS AS SPECIFIED.
- WEAK POCKETS FOUND BELOW THE ASSUMED FOUNDATION LEVELS SHALL BE REMOVED AND REPLACED BY PLAIN CONCRETE.
- IN CASE OF EXCAVATIONS BELOW THE ASSUMED LEVEL OF THE FOUNDATION, THE SOIL SHALL BE REPLACED BY PLAIN CONCRETE.
- IN CASE GROUND WATER IS PRESENT ABOVE FOUNDATION LEVEL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING THE BELOW LEVEL OF FOUNDATIONS.
- THE CONTRACTOR SHALL MAINTAIN DRY WORKING CONDITIONS THROUGH OUT THE CONSTRUCTION PERIOD. RESTORING WATER TABLE CAN BE DONE AFTER BACKFILLING AND COMPACTION UP TO THE SLAB ON GRADE LEVEL, OR AS DIRECTED BY THE ENGINEER.
- NO BACK FILLING SHALL BE PLACED AGAINST WALLS RETAINING EARTH, UNLESS THE WALLS ACHIEVE SUFFICIENT STRENGTH TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE.

10.0 CONSTRUCTION LOAD AND SHORING

- CONSTRUCTION LIVE LOAD IMPOSED ON ANY SINGLE FLOOR SHALL NOT EXCEED 1.5 KN/M2. UNLESS OTHERWISE APPROVED BY THE ENGINEER, DEAD LOAD OF THE TOP CONSTRUCTION FLOOR SHALL BE SUPPORTED BY TWO COMPLETED FLOORS DIRECTLY BELOW IT.
- PROPS TO BEAMS AND SLABS AT ANY FLOORS SHALL NOT BE REMOVED UNTIL THE TWO IMMEDIATE FLOORS ABOVE THAT LEVEL ARE CAPABLE OF SUPPORTING THEMSELVES AS WELL AS ANY LOADS IMPOSED DURING CONSTRUCTION. CONSIDERATIONS GOVERNING REMOVAL OF PROPS INCLUDE BUT ARE NOT LIMITED TO THE ATTAINMENT OF 28-DAY STRENGTH FOR THE CONCRETE, DESIGN LOAD CAPACITY OF THE FLOOR UNDER REVIEW AND THE COMPLETION OF PRESTRESSING AND GROUTING OPERATIONS IN THE CASE OF A PRESTRESSED STRUCTURAL FLOOR SYSTEM.

- PROPS SHALL BE LEFT IN PLACE FOR SUPPORTING THE CONSTRUCTION LOADS APPROVED BY THE ENGINEER.
- NO ALLOWANCE HAS BEEN MADE IN THE DESIGN OF THE PERIMETER BEAMS/WALLS FOR THE SUPPORT OF TEMPORARY SCAFFOLDINGS.
- THE CONTRACTER SHALL ENGAGE HIS OWN PROFESSIONAL ENGINEER TO DESIGN AND STRENGTHEN THE BEAMS/WALLS.
- THE CONTRACTER SHALL ENGAGE HIS OWN PROFESSIONAL ENGINEER CHECK THE ADEQUACY OF SHORING DETAIL PROVIDED PROCEEDING THE WORK, AS SHORING WAS DESIGNED, CONSIDERING THE STATUS OF THE BUILDING AT THE TIME OF DESIGN.

11.0 CONCRETE COVER

- MINIMUM COVER TO OUTERMOST REINFORCEMENT INCLUDING LINKS SHALL BE AS FOLLOWS.

| STRUCTURAL ELEMENT               | COVER (mm) |
|----------------------------------|------------|
| RAFT BEAM & SLAB (EARTH FACE)    | 60         |
| RAFT BEAM & SLAB (INTERNAL FACE) | 60         |
| COLUMN                           | 40         |
| BEAM                             | 35         |
| BEAM (EXTERNAL FACE)             | 40         |
| SLAB                             | 30         |
| INTERNAL WALL                    | 30         |
| EXTERNAL WALL                    | 40         |

- NOTE: EARTH FACE COVER OF BEAMS, COLUMNS & WALLS SHOULD BE 50mm

12.0 MATERIAL STRENGTHS

12.1 CONCRETE

- UNLESS OTHERWISE STATED, ORDINARY PORTLAND CEMENT CONFORMING TO BS 12, TO BE USED FOR ALL THE RC STRUCTURAL ELEMENTS.
- THE MINIMUM 28-DAY COMPRESSIVE CUBE STRENGTH OF CONCRETE FOR SPECIFIED STRUCTURAL ELEMENTS SHALL BE AS FOLLOWS UNLESS OTHERWISE STATED:

| MAIN BUILDING                                 |          |
|---|----------|
| LEAN CONCRETE                                 | 15 N/mm2 |
| MASS CONCRETE                                 | 30 N/mm2 |
| COLUMN, BEAM AND SLAB                         | 30 N/mm2 |
| EXTERNAL WORK                                 |          |
| PAVEMENTS                                     | 30 N/mm2 |
| ALL OTHERS (CULVERT, DRAINS, MANHOLE, ETC)    | 30 N/mm2 |
| FOUNDATION                                    |          |
| PILECAP, FOOTING, RAFT TIE-BEAM, CAPPING BEAM | 30 N/mm2 |

- CEMENT SHALL BE ORDINARY PORTLAND CEMENT TO BS 12.

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education

Project Number: RI/2020/006  
Date: April 2021  
Architect : Mariyam Iratha Shareef  
Engineer : Mohamed Muththalib Waleed  
Drawn by : Mariyam LEEVAN Jaleel  
Services : Aishath Ahmed  
Interior : -

  
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12.2 REINFORCEMENT

- UNLESS OTHERWISE STATED, BAR SIZE 10MM DIAMETER OR LARGER SHALL BE HIGH TENSILE TYPE II DEFORMED BARS. THE MINIMUM YIELD STRENGTH OF STEEL BAR REINFORCEMENT SHALL BE AS FOLLOWS:

|                                   |           |
|-----------------------------------|-----------|
| MILD STEEL PLAIN BAR              | 250 N/mm2 |
| HIGH TENSILE TYPE II DEFORMED BAR | 415 N/mm2 |

12.25 REINFORCEMENT ANCHORAGE OR LAPPING IS AS FOLLOWS U.N.O.

|             |               |
|-------------|---------------|
|             | BAR GRADE 415 |
| TENSION     | 45Ø           |
| COMPRESSION | 45Ø           |

Ø IS DIAMETER OF THE SMALLER SIZED LAPPED BAR.

- NO SPLICE SHALL BE MADE AT POINT OF MAXIMUM STRESS,EG IN BEAMS AND SLABS, THERE SHALL BE NO SPlicing OF TOP BARS OVER SUPPORTS NOR BOTTOM BARS AT MID-SPANS. SPLICES SHALL BE STAGGERED WHEREVER POSSIBLE. LAP LENGTH FOR UNEQUAL SIZE BARS (OR WIRES IN FABRIC) MAY BE BASED UPON THE SMALLER BAR. FOR BUNDLED BARS, THE EQUIVALENT DIAMETER SHALL BE USED. CRANKING OF BARS SHALL NOT EXCEED A SLOPE OF 1:10.
- FOR LAP LENGTH, WHERE SYMBOLS ARE NOT INDICATED, THE TENSION LAP LENGTH SHALL BE FOLLOWED.

13.0 STIRRUPS, LINKS AND TIES

- ALL STIRRUPS, LINKS AND TIES IN BEAMS, COLUMNS AND WALLS RESPECTIVELY SHALL TERMINATE NOT MORE THAN 75mm FROM THE FACE OF ANY ADJACENT STRUCTURAL MEMBERS.

14.0 SLAB DISTRIBUTION BARS

- REGARDLESS OF WHETHER OR NOT SHOWN ON PLAN, ALL DISTRIBUTION BARS FOR SLAB SHALL COMPRISE TYPICALLY ONE OF THE FOLLOWING COMBINATIONS, UNLESS OTHERWISE STATED IN THE RELEVANT DRAWINGS :

| SLAB THICKNESS (mm)                            | MIN. DISTRIBUTION BAR |
|--|-----------------------|
| 250 OR LESS                                    | T10-300               |
| GREATER THAN 250 BUT LESS THAN OR EQUAL TO 300 | T10-200               |
| GREATER THAN 300 BUT LESS THAN OR EQUAL TO 400 | T10-150               |

15.0 FLOOR RENDERING

- THICKNESS OF SCREED RENDERING/MASS CONCRETE TOPPING EXCEEDING 60 OR MORE SHALL BE REINFORCED WITH ONE LAYER OF R6.

16.0 SHRINKAGE CRACKS

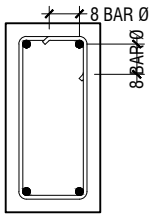
- THE SURFACE OF CONCRETE SHALL BE ADEQUATELY AND CONTINUOUSLY CURED TO SPECIFICATION TO PREVENT FORMATION OF SHRINKAGE CRACKS.THOUGH SHRINKAGE CRACKS HAVE NO EFFECT ON THE STRENGTH AND INTEGRITY OF THE STRUCTURE,THEY SHOULD BE SEALED BY EPOXY PRESSURE GROUTING. ALL COST INCURRED FOR THE NECESSARY SEALING UP OF SHRINKAGE CRACKS BY EPOXY PRESSURE GROUTING SHALL BE DEEMED TO BE INCLUDED IN THE CONCRETE WORK AS TENDERED.

17.0 STEEL BAR CORROSION PROTECTION

- ALL EXPOSED BARS FOR FUTURE CONSTRUCTION PURPOSES (EXCEEDING 3 MONTHS) MUST BE COATED WITH MASTER EMACO 8100 AP OR APPROVED EQUIVALENT AND PROVIDED WITH ADEQUATE MAINTENANCE.

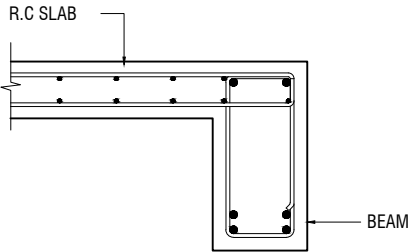
18.0 SPACER BARS

- ALL SPACER BARS BETWEEN 2 OR MORE LAYERS OF REINFORCEMENT SHALL T25 OR BAR DIAMETER (WHICHEVER IS GREATER) AT ±1-5M C/C.

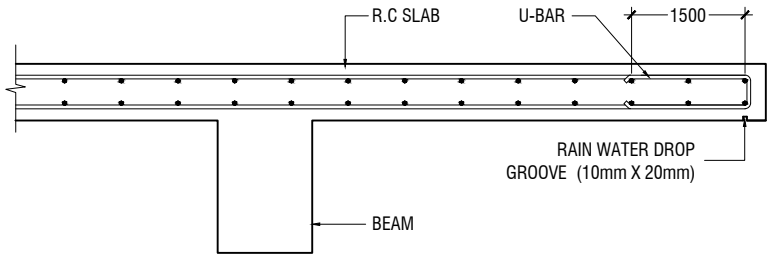


Ø = DIA OF LINK

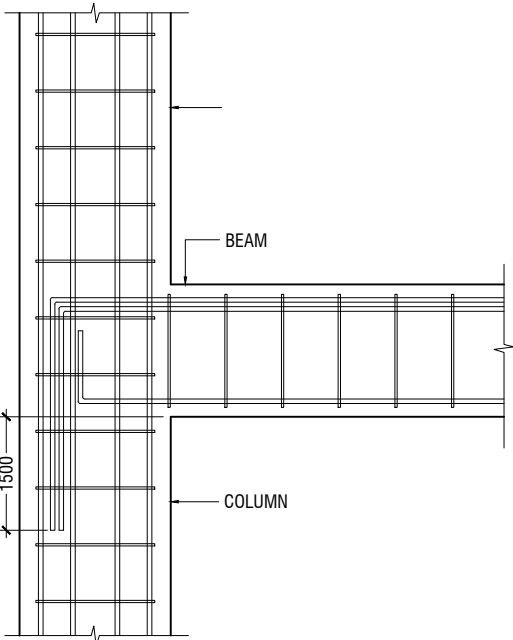
SHEAR LINKS ANCHORAGE DETAIL



SLAB-BEAM ANCHORAGE DETAIL



CANTILEVERED SLAB EDGE DETAIL



BEAM TO COLUMN CONNECTION

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education

|                                      |        |      |
|--------------------------------------|--------|------|
| Project Number: RI/2020/006          | Rev no | Date |
| Date: April 2021                     | 1      | 1    |
| Architect: Maryam Irasha Shareef     | 2      | 2    |
| Engineer: Mohamed Muthithallo Waleed | 3      | 3    |
| Drawn by: Maryam Leevan Jaleel       | 4      | 4    |
| Services: Aishath Ahmed              | 5      | 5    |
| Interior: -                          | 6      | 6    |



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19.0 STRUCTURAL TIMBER SPECIFICATION

19.1 THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE, AND ARE NOT INTENDED TO INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES, AND FOR JOB SAFETY.

19.2 THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

19.3 ALL CONSTRUCTION IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

19.4 ALL TIMBER FOR STRUCTURAL USE SHALL BE HARDWOOD OR SOFTWOOD OF VISUAL GRADE C/D IN ACCORDANCE WITH BS 5756 WITH THE FOLLOWING MINIMUM GRADE STRESSES:

19.5 CONNECTIONS  
PLATES - STAINLESS STEEL GRADE 316 OF STATED THICKNESS  
BOLTS - SS GRADE 316

19.6 TIMBER TREATMENT  
MOISTURE - PRESSURE IMPREGNATION OF CCA  
INSECTS - TERMITE TREATMENT FOR TIMBER IN / NEAR GROUND

20.0 STRUCTURAL STEEL SPECIFICATION

1. SEE 21.0 ON PRIMARY CODES AND SPECIFICATIONS.

2. MATERIALS:

W-SHAPES & WT-SHAPES..... ASTM A992  
S-SHAPES, M-SHAPES, HP-SHAPES..... ASTM A36  
ST-SHAPES & MT-SHAPES..... ASTM A36  
C-SHAPES & MC-SHAPES..... ASTM A36  
ANGLES & PLATES..... ASTM A36  
HSS SHAPES..... ASTM A500, GRADE B  
STEEL PIPE..... ASTM A53 (TYPE E OR S), GRADE B  
HIGH STRENGTH BOLTS..... ASTM A325  
MACHINE BOLTS..... ASTM A307  
ANCHOR RODS.....ASTM F1554, GRADE 55 TYPE S1(UN0)  
WELDED HEADED STUDS..... ASTM A108  
DEFORMED BAR ANCHORS..... ASTM A496  
WELDING ELECTRODES..... AWS D1.1, E70 SERIES

3. NON-SHRINK, NON-METALLIC GROUT WITH A 28 DAY STRENGTH OF 35MPa SHALL BE USED UNDER BASE PLATES AND SHALL CONFORM TO BS EN 12390-3 AND EN 196-1. MASTERFLOW 542 OR EQUIVALENT MAYBE USED.

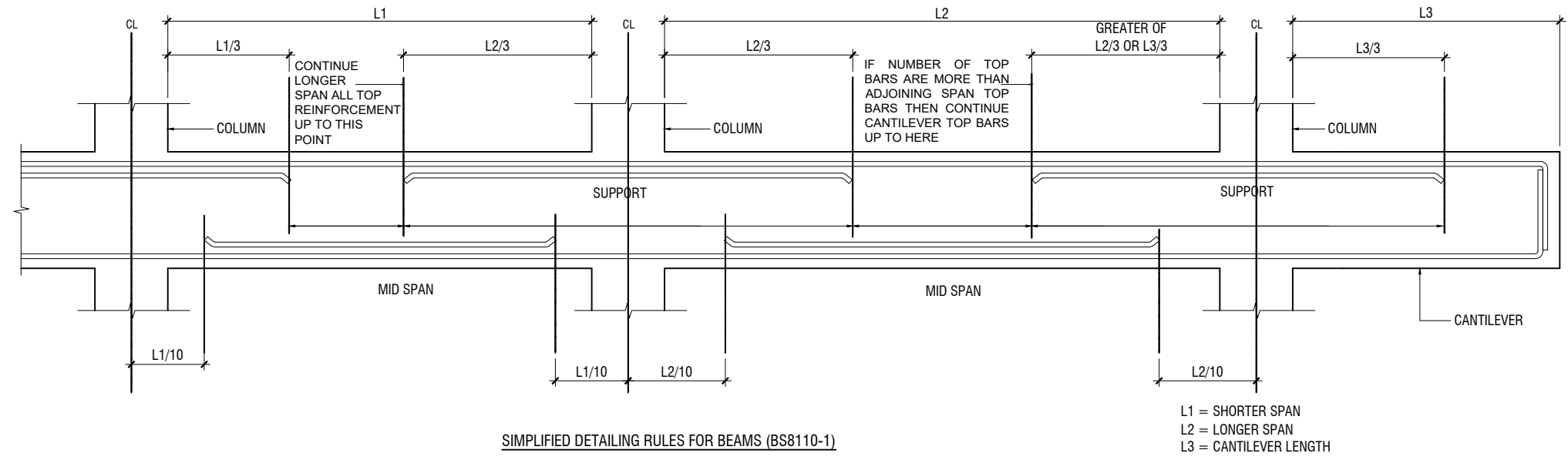
23.0 POST-INSTALLED ANCHORS

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD (EOR) PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSINGS OR MISPLACED ANCHORS.

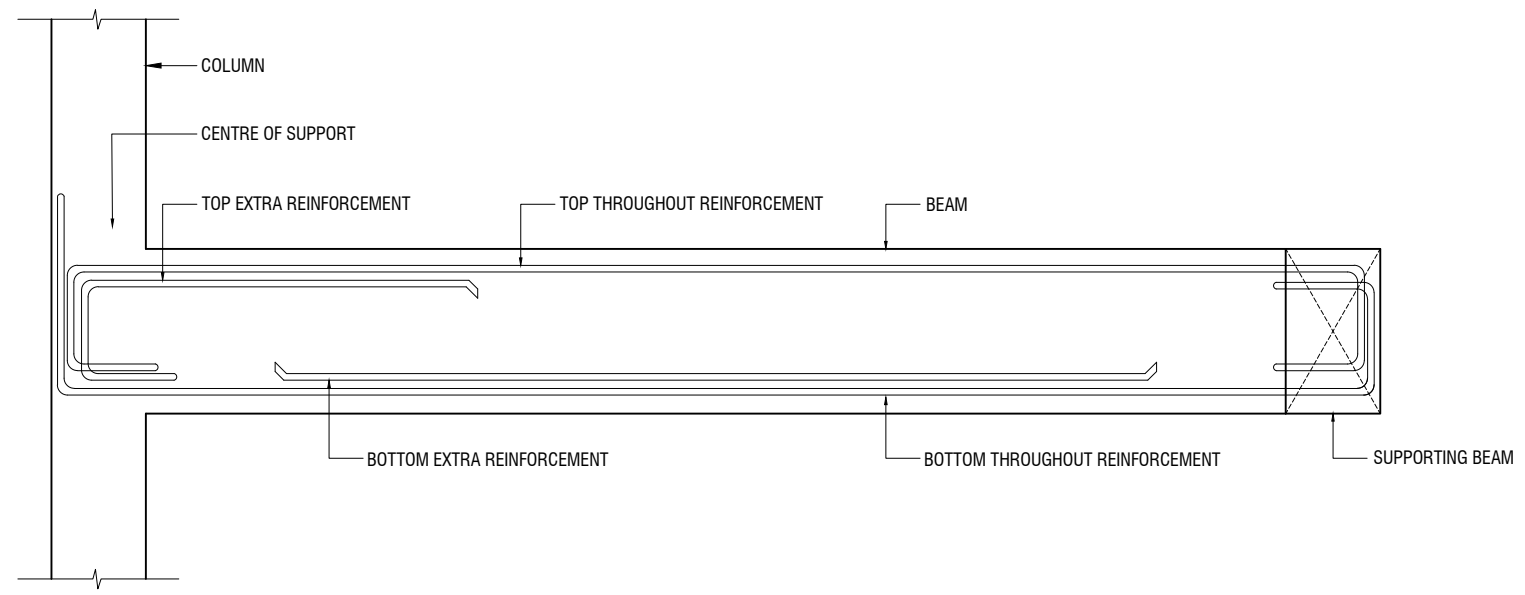
2. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCING WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE.

3. SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL ADHESIVE AND MECHANICAL ANCHOR INSTALLATIONS AS REQUIRED BY THE EOR. INDEPENDENT ON-SITE PROOF LOAD TESTING SHALL BE PERFORMED AS REQUIRED BY THE EOR. CONTACT EOR FOR NUMBER OF ANCHORS REQUIRED TO BE TESTED AND REQUIRED PROOF LOAD MAGNITUDE.

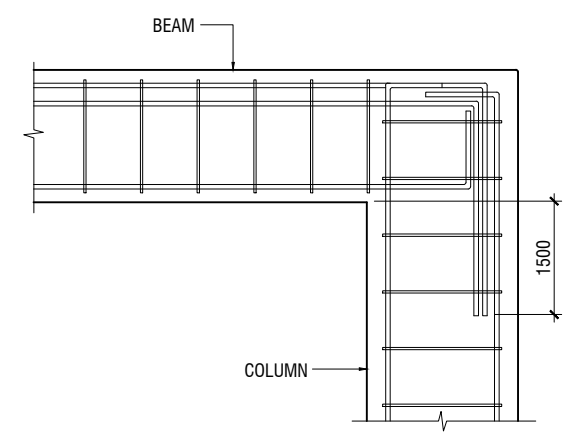
| Project Number: RI/2020/006           | Rev no | Date  |
|---------------------------------------|--------|-------|
| Date: April 2021                      | --     | ----- |
| Architect : Maryam Irasha Shareef     | --     | ----- |
| Engineer : Mohamed Muthithallo Waleed | --     | ----- |
| Drawn by : Maryam LEEVAN Jaleel       | --     | ----- |
| Services : Alshath Ahmed              | --     | ----- |
| Interior : -                          | --     | ----- |



SIMPLIFIED DETAILING RULES FOR BEAMS (BS8110-1)



LONGITUDINAL SECTION OF TYPICAL SLAB BEAM SPANNING BETWEEN A COLUMN AND BEAM  
SHOWING END SPAN MID SPAN REINFORCEMENT DETAILS

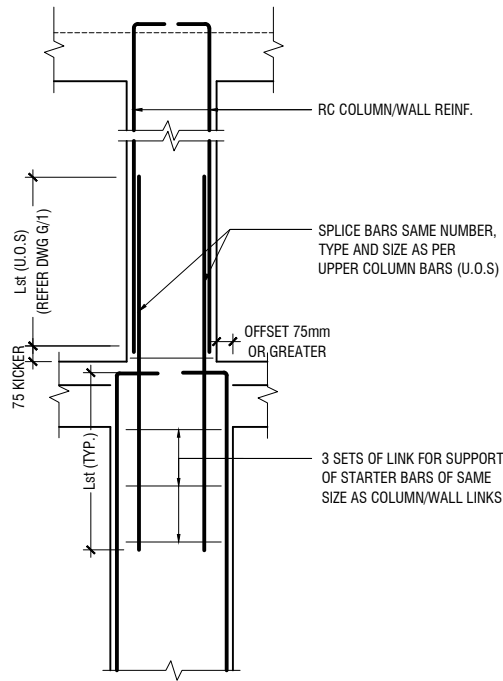


END COLUMN TO BEAM CONNECTION

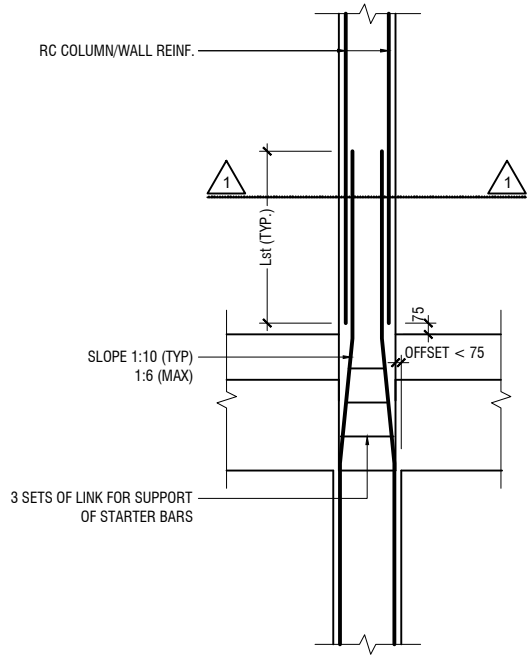
NOTE:  
STANDARD DETAILS GIVEN HERE ALSO APPLIES TO FOUNDATION MEMBERS  
OTHER DETAILS NOT FOUND HERE SHALL BE REFERRED TO IN RELEVANT BS  
CODES OR SHALL BE APPROVED BY CLIENT'S ENGINEER

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education

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| Architect: Maryam Irasha Shareef     | --     | ---- |
| Engineer: Mohamed Muthithallo Waleed | --     | ---- |
| Drawn by: Maryam LEEVAN Jaleel       | --     | ---- |
| Services: Aishath Ahmed              | --     | ---- |
| Interior: -                          | --     | ---- |

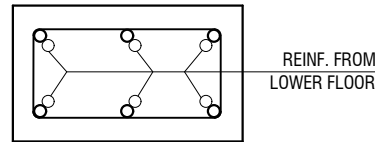


A) FOR COLUMN OFFSET > 75mm  
TO BE VERIFIED BY THE CONSULTING ENGINEER

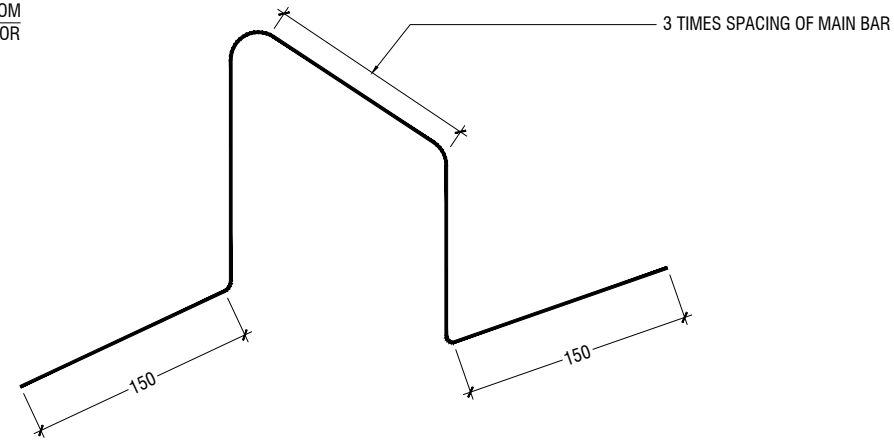


B) FOR COLUMN OFFSET < 75mm

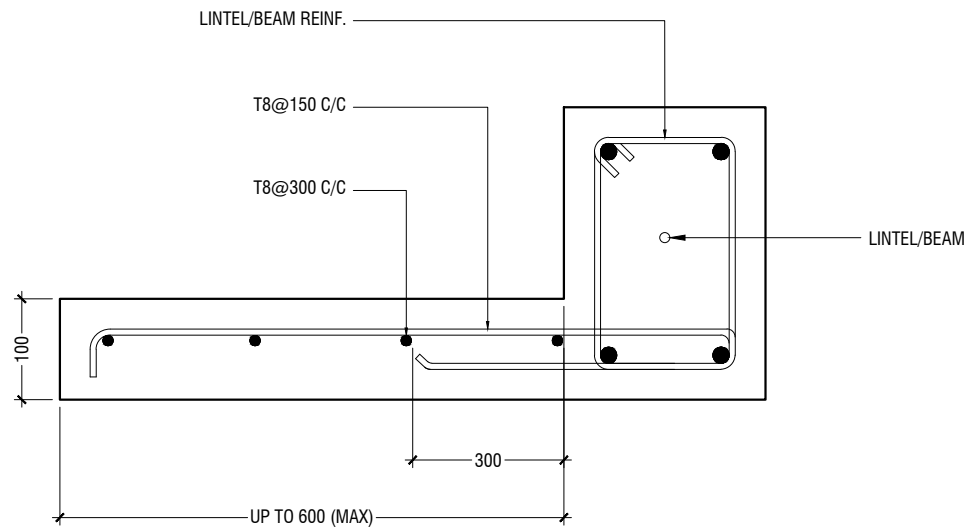
#### COLUMN/WALL REINF. LAPPING DETAIL AT FLOOR LEVEL



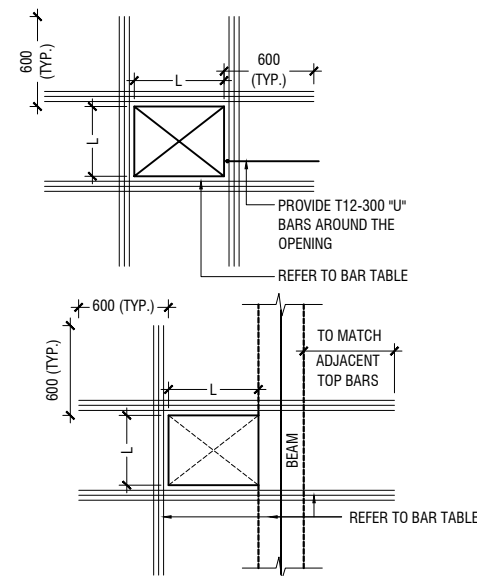
SECTION-1-1



#### TYPICAL CHAIR DETAIL



#### TYPICAL CANTILEVER DETAILS



| FLOOR OPENING (L) | ADD BARS   |
|-------------------|------------|
| LESS THAN 250     | 3T12 T & B |
| L = > 250 < 500   | 3T16 T & B |
| L = ≥ 500 < 1000  | 3T16 T & B |

#### NOTE:-

- FOR OPENINGS LESS THAN 200x200. SLAB REBARS TO BE ADJUSTED AROUND OPENING.
- FOR OPENINGS GREATER THAN 250x250 TO BE APPROVED BY THE ENGINEER.
- ALL SLAB OPENINGS LOCATION TO BE APPROVED BY THE ENGINEER.
- EQUIVALENT OPENING AREA SHALL APPLY THE DETAILS SHOWN ABOVE.
- EQUIVALENT OPENING AREA SHALL INCLUDE RECTANGLE, TRIANGLE AND ANY POLYGON SHAPE.
- EXCEPT HACKING, NO SLAB CORING ARE ADVISABLE FOR POST-TENSIONED SLAB.

#### TYPICAL TRIMMER BARS DETAILS FOR OPENING IN SLABS

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Client: Ministry of Education

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Architect: Maryam Irasha Shareef  
Engineer: Mohamed Muthithallo Waleed  
Drawn by: Maryam Leevan Jaleel  
Services: Aishath Ahmed  
Interior: -

| Rev no | Date |
|--------|------|
| 1      | 1    |
| 2      | 2    |
| 3      | 3    |
| 4      | 4    |
| 5      | 5    |



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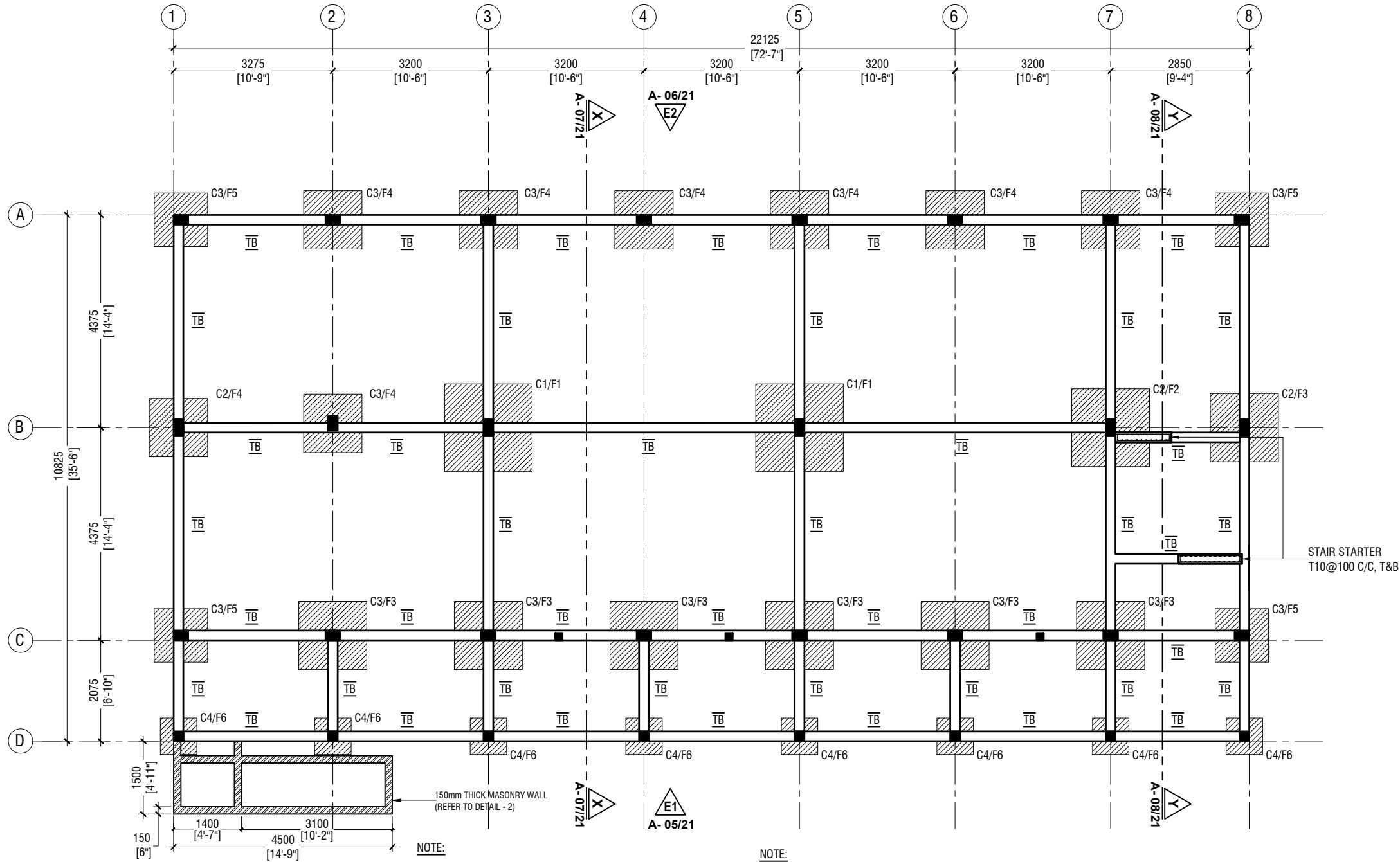
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# FOUNDATION PLAN

SCALE 1:100



## COLUMN SIZES

|       |                |
|-------|----------------|
| C1    | : 200 x 350 mm |
| C2    | : 200 x 350 mm |
| C3    | : 200 x 300 mm |
| C4    | : 200 x 200 mm |
| SC    | : 150 x 150 mm |
| COVER | : 40mm         |

## FOUNDATION PAD SIZES

|    | DIMENSION         | REINFORCEMENT       |
|----|-------------------|---------------------|
| F1 | 1800 x 1800 x 300 | T16@150 C/C B/W (B) |
| F2 | 1600 x 1600 x 300 | T12@150 C/C B/W (B) |
| F3 | 1400 x 1400 x 300 | T12@150 C/C B/W (B) |
| F4 | 1200 x 1200 x 300 | T12@150 C/C B/W (B) |
| F5 | 1100 x 1100 x 300 | T12@150 C/C B/W (B) |
| F6 | 750 x 750 x 300   | T12@150 C/C B/W (B) |

## NOTE:

### CONCRETE COVER

|          |        |
|----------|--------|
| COLUMN   | : 40mm |
| SLAB     | : 30mm |
| BEAM     | : 35mm |
| FOOTING  | : 50mm |
| TIE BEAM | : 50mm |

### LAP LENGTH FOR BARS

|      |           |
|------|-----------|
| 25MM | : 1125 mm |
| 20MM | : 900 mm  |
| 16MM | : 720 mm  |
| 12MM | : 550 mm  |
| 10MM | : 450 mm  |

CONCRETE GRADE = M25

SAFE BEARING CAPACITY = 150KPa

HOOK LENGTH AND OTHER DETAILS ARE PROVIDED IN THE GENERAL NOTES

FOUNDATION DEPTH : 1200mm BELOW GROUND LEVEL

ALL FOOTINGS ARE TO BE LAID ON TOP OF 50mm THICK LEAN CONCRETE  
APPLY WATER PROOFING TO SUBSTRUCTURE (BELOW GROUND ELEMENTS)

### TIE BEAM SIZES

|       |                |
|-------|----------------|
| TB    | : 200 x 450 mm |
| COVER | : 50mm         |

GROUND SLAB : 100mm THK RC SLAB ON FILL  
REINFORCED WITH T10@200 C/C BW

-150mm THK. SOLID MASONRY BLOCK WALL

RAMP SLAB : 100mm THK RC SLAB ON COMPACTED FILL  
REINFORCED WITH T10@200 C/C BW

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

Project Number: RI/2020/006

Date: April 2021

Architect: Mariyam Irasha Shareef

Engineer: Mohamed Munthaliq Waleed

Drawn by: Mariyam Leevan Jaleel

Services: Ashraf Ahmed

Interior: -



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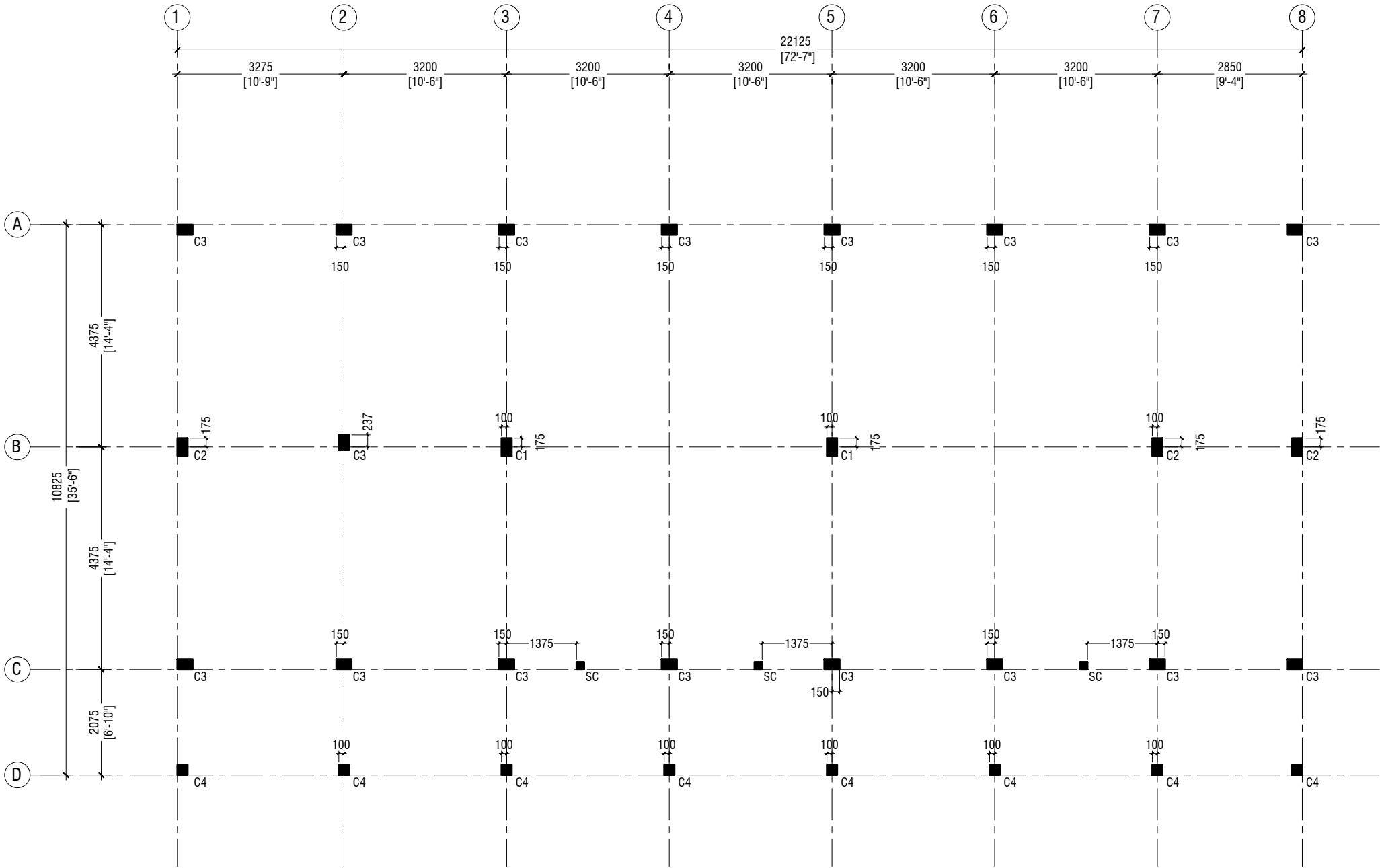
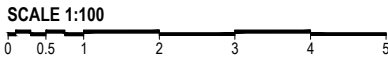
3rd floor, H. Azum, Ameenemagau, Male'

Title: Foundation Plan

Page: S-01/12

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FIRST FLOOR COLUMN LAYOUT PLAN



NOTE:

COLUMN SIZES

|       |                |
|-------|----------------|
| C1    | : 200 x 350 mm |
| C2    | : 200 x 350 mm |
| C3    | : 200 x 300 mm |
| C4    | : 200 x 200 mm |
| SC    | : 150 x 150 mm |
| COVER | : 40mm         |

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education



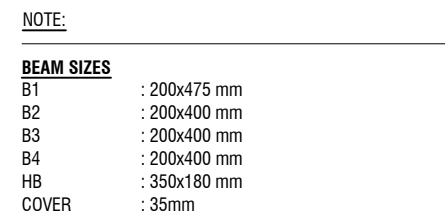
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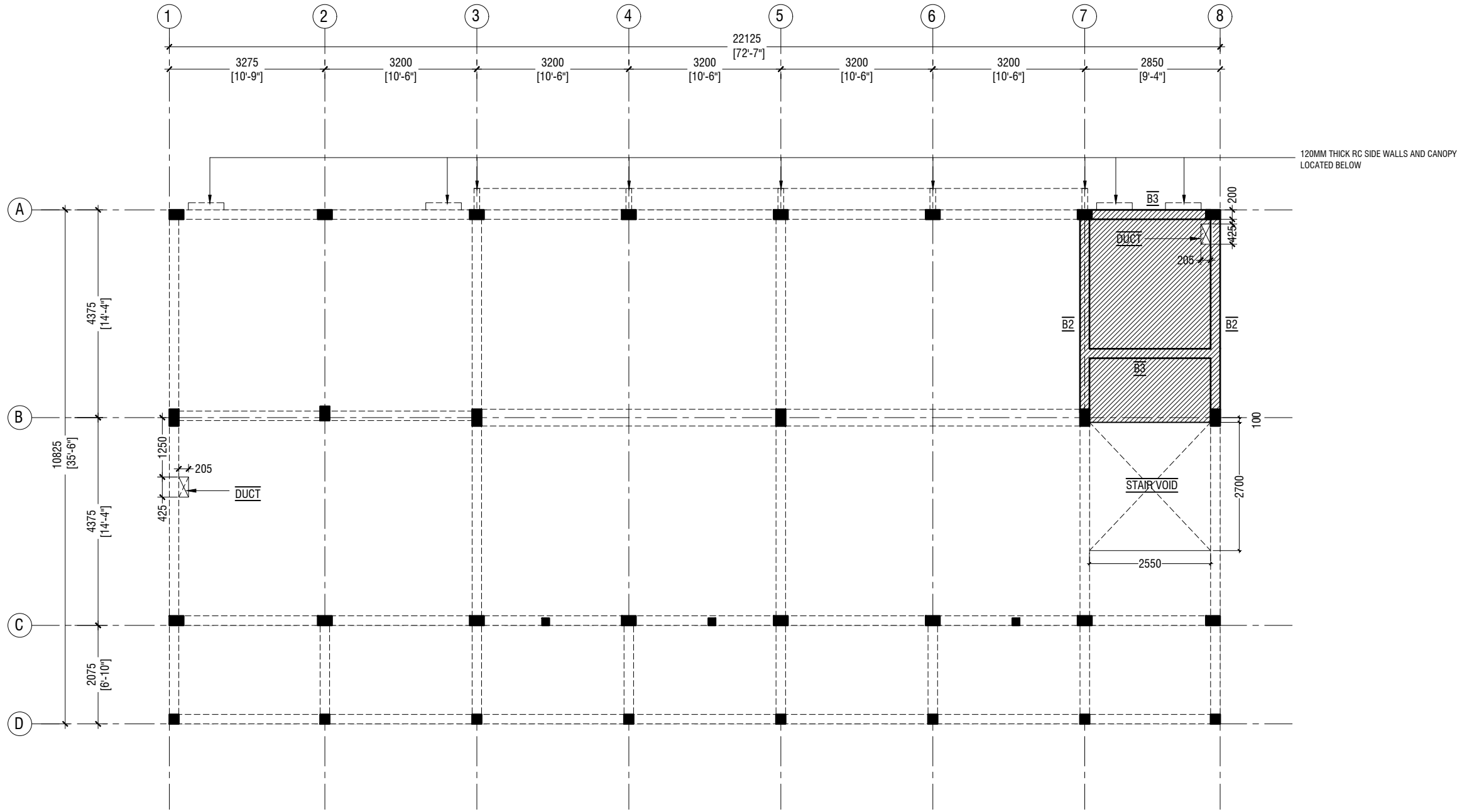
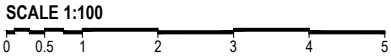
Title: First Floor Column  
Layout Plan

Page: S-02/12

|                                      |        |       |
|--------------------------------------|--------|-------|
| Project Number: RI/2020/006          | Rev no | Date  |
| Date: April 2021                     | --     | ----- |
| Architect : Mariyam Irasha Shareef   | --     | ----- |
| Engineer : Mohamed Muththalib Waleed | --     | ----- |
| Drawn by : Mariyam Leevan Jaleel     | --     | ----- |
| Services : Aishath Ahmed             | --     | ----- |
| Interior : -                         | --     | ----- |



STORE / HALF LANDING FLOOR BEAM & SLAB REINFORCEMENT PLAN (+1865)



NOTE:

|                   |              |
|-------------------|--------------|
| <b>BEAM SIZES</b> |              |
| B1                | : 200x475 mm |
| B2                | : 200x400 mm |
| B3                | : 200x400 mm |
| B4                | : 200x400 mm |
| COVER             | : 35mm       |

|  |                 |       |
|--|-----------------|-------|
|  | SLAB THICKNESS: | 150mm |
|--|-----------------|-------|

REINFORCEMENT: T10@150C/C B/W (T&B)

ALL REINFORCEMENT TO BE DISCONTINUOUS OVER THE VOIDS

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Rev no      Date

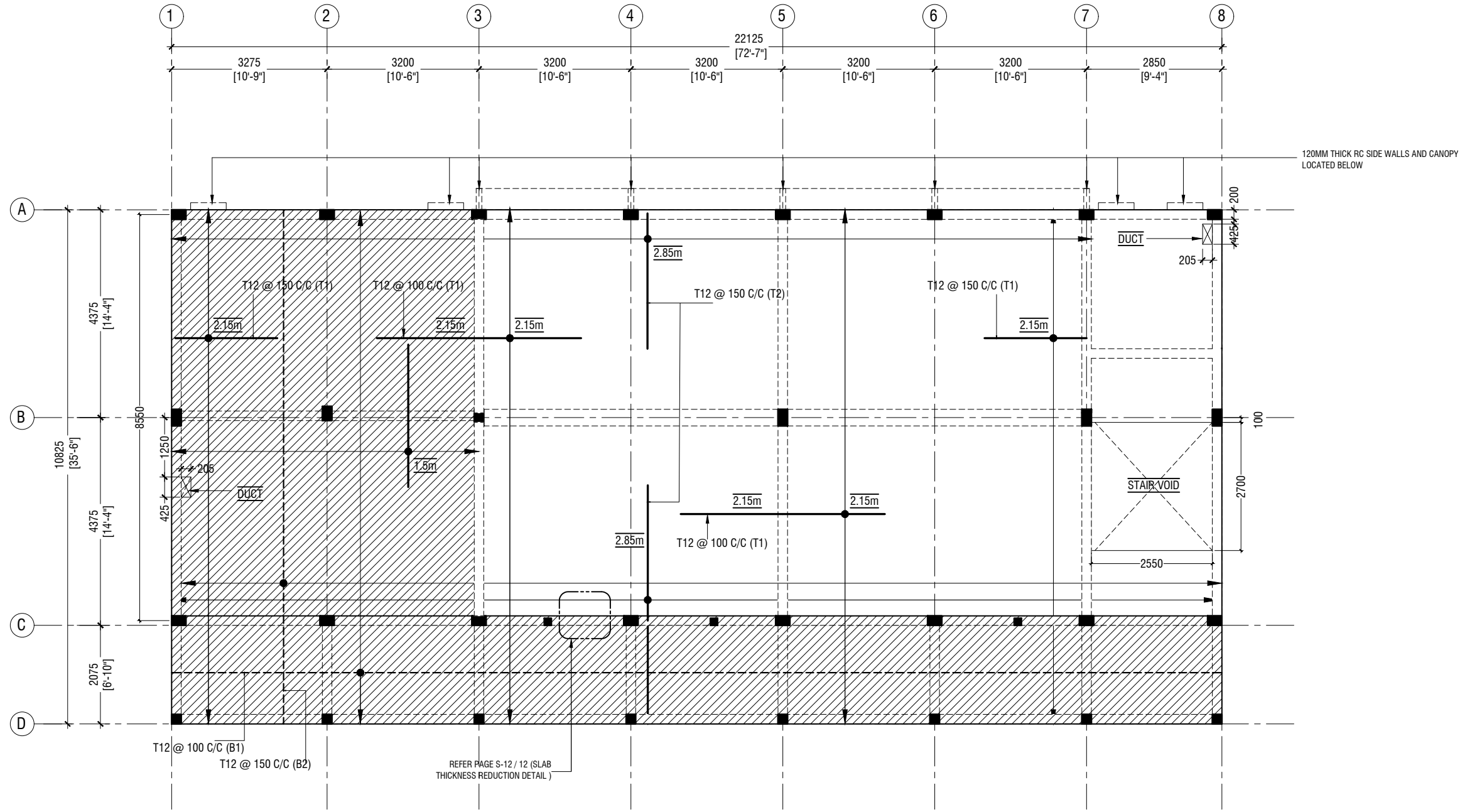
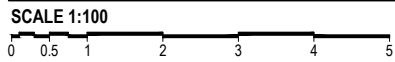
|    |      |
|----|------|
| -- | ---- |
| -- | ---- |
| -- | ---- |
| -- | ---- |

Title: Store / Half Landing  
Beam & Slab Rein. Plan

Page: S-04/12



FIRST FLOOR SLAB REINFORCEMENT PLAN



| NOTE |  |
|------|--|
|      | SLAB THICKNESS: 180mm  |
|      | SLAB THICKNESS: 135mm  |
|      | BOTTOM REINFORCEMENT: T12@100 C/C ALONG SHORT DIRECTION (B1) (AS SHOWN)<br>T12@150 C/C ALONG LONG SPAN (B2) (AS SHOWN) |
|      | TOP REINFORCEMENT: T12@150C/C (AS SHOWN, UNLESS STATED)  |
|      | TOP DISTRIBUTION STEEL: T12@150C/C (NOT SHOWN)   |
|      | COVER : 30mm   |

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education

|                                      |        |       |
|--------------------------------------|--------|-------|
| Project Number: RI/2020/006          | Rev no | Date  |
| Date: April 2021                     | --     | ----- |
| Architect: Mariyam Irasha Shareef    | --     | ----- |
| Engineer: Mohamed Muthithalib Waleed | --     | ----- |
| Drawn by: Mariyam Leevan Jaleel      | --     | ----- |
| Services: Aishath Ahmed              | --     | ----- |
| Interior: -                          | --     | ----- |



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Title: First Floor Slab  
Reinforcement Plan

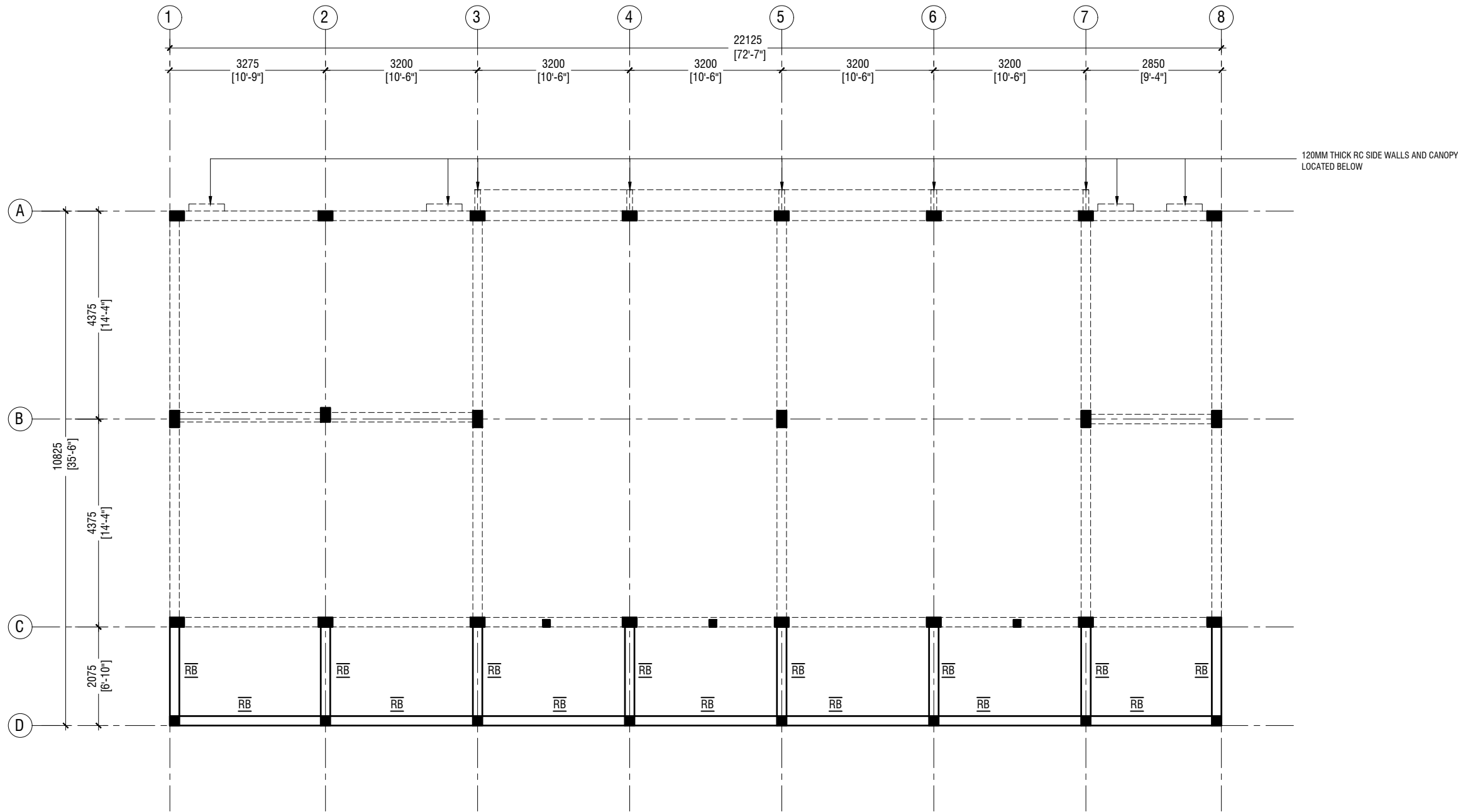
Page: S-05/12

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ROOF BEAM PLAN - 1 @6.15m FROM F.F.L

SCALE 1:100

0 0.5 1 2 3 4 5



NOTE:

**BEAM SIZES**

RB : 200x300 mm

COVER : 35mm

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

|                                      |        |       |
|--------------------------------------|--------|-------|
| Project Number: RI/2020/006          | Rev no | Date  |
| Date: April 2021                     | --     | ----- |
| Architect : Mariyam Irasha Shareef   | --     | ----- |
| Engineer : Mohamed Muththalib Waleed | --     | ----- |
| Drawn by : Mariyam Leevan Jaleel     | --     | ----- |
| Services : Aishath Ahmed             | --     | ----- |
| Interior : -                         | --     | ----- |



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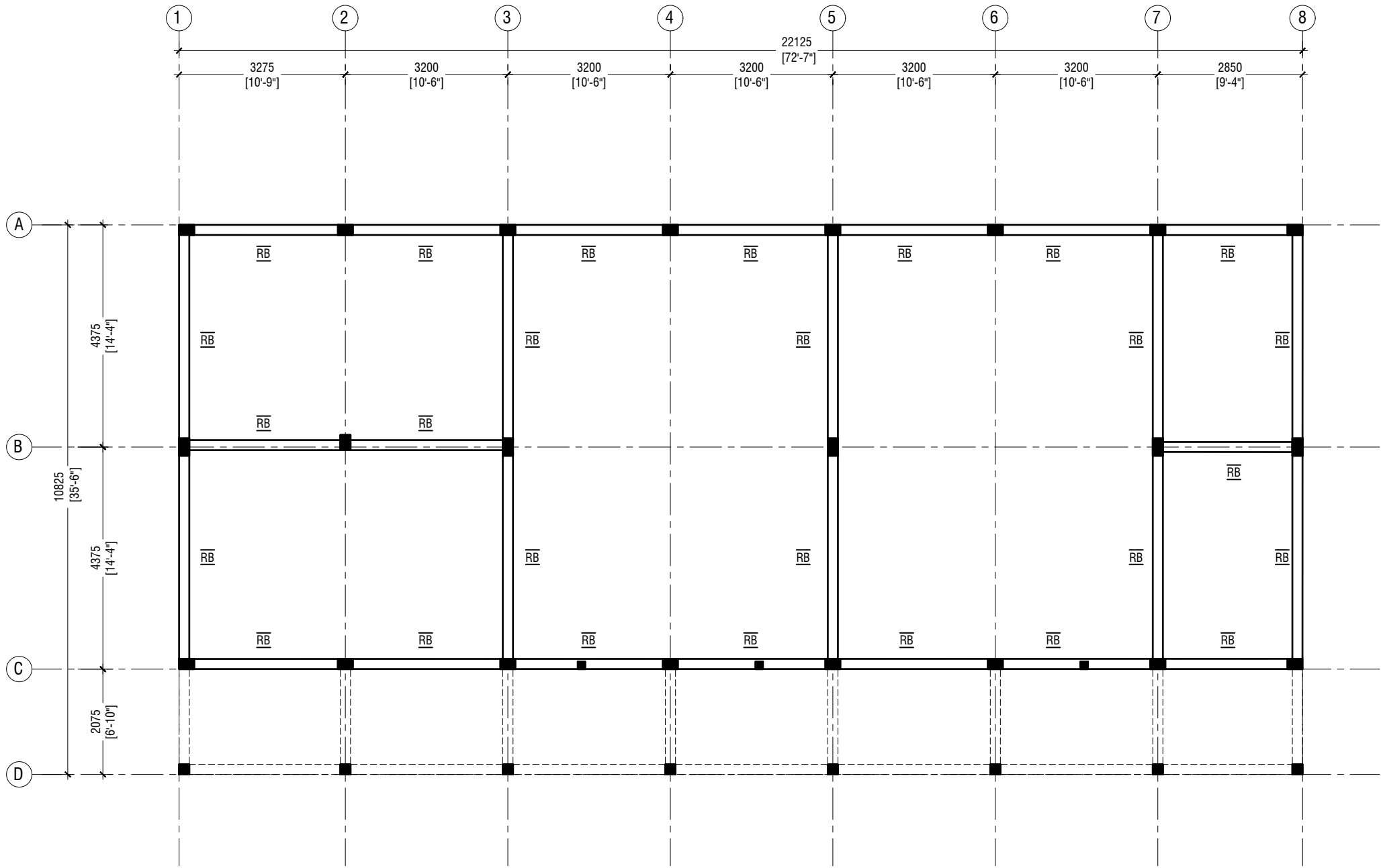
Title: Roof Beam Plan 1

Page: S-06/12

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ROOF BEAM PLAN - 2 @6.706 FROM F.F.L

SCALE 1:100



NOTE:

**BEAM SIZES**

RB : 200x300 mm

COVER : 35mm

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

|                                     |        |       |
|-------------------------------------|--------|-------|
| Project Number: RI/2020/006         | Rev no | Date  |
| Date: April 2021                    | --     | ----- |
| Architect: Mariyam Irasha Shareef   | --     | ----- |
| Engineer: Mohamed Muththaliq Waleed | --     | ----- |
| Drawn by: Mariyam Leevan Jaleel     | --     | ----- |
| Services: Ashraf Ahmed              | --     | ----- |
| Interior: -                         | --     | ----- |



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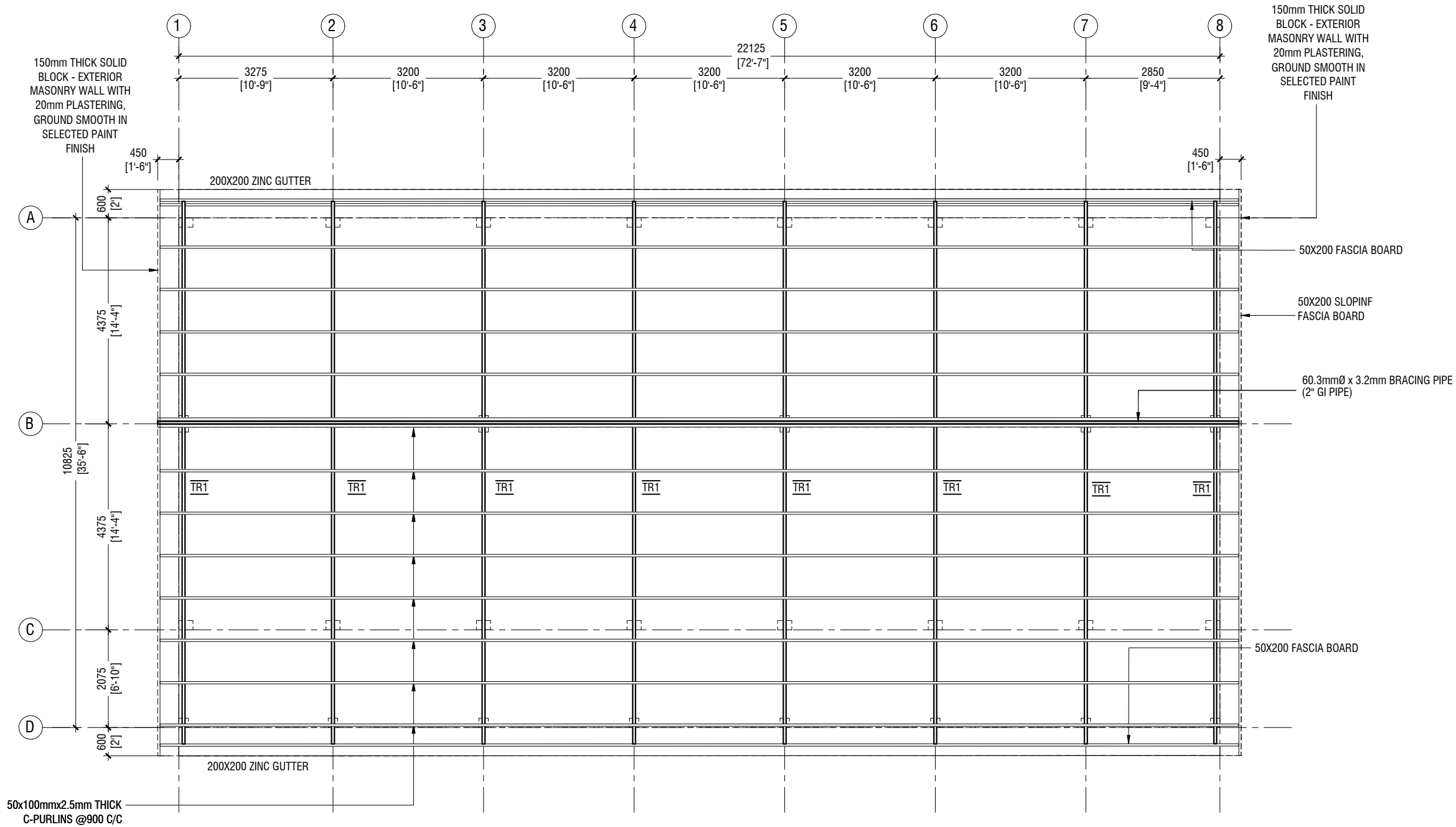
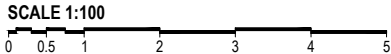
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Title: Roof Beam Plan 2

Page: S-07/12

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ROOF TRUSS & FRAMING PLAN



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Client: Ministry of Education

|                                      |        |       |
|--------------------------------------|--------|-------|
| Project Number: RI/2020/006          | Rev no | Date  |
| Date: April 2021                     | --     | ----- |
| Architect : Mariyam Irasha Shareef   | --     | ----- |
| Engineer : Mohamed Muththalib Waleed | --     | ----- |
| Drawn by : Mariyam Leevan Jaleel     | --     | ----- |
| Services : Ashath Ahmed              | --     | ----- |
| Interior : -                         | --     | ----- |



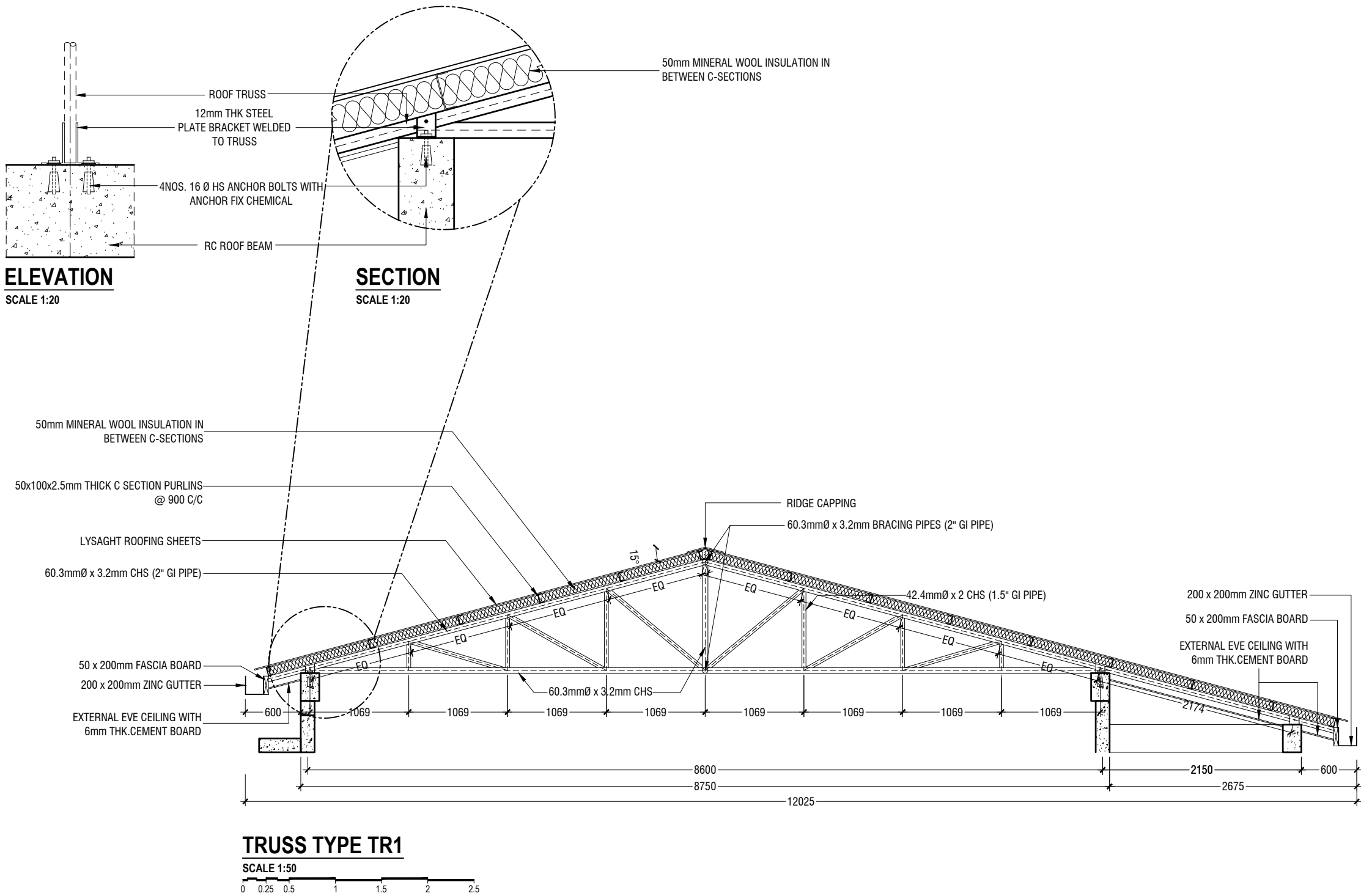
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Title: Roof Truss and Framing Plan

Page: S-08/12

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**NOTE**

- CORROSION PROTECTION: GALVANIZED COATING THICKNESS SHALL NOT BE LESS THAN 80 MICRONS
- ALL FILLET WELDS TO BE 4mm THICK
- CONTRACTOR AND CONSULTANT TO CONFIRM ON SITE TRUSS SPAN AND DIMENSIONS BEFORE FABRICATION

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)  
Client: Ministry of Education

| Project Number: RI/2020/006         | Rev no | Date |
|-------------------------------------|--------|------|
| Date: April 2021                    |        |      |
| Architect: Mariyam Irasha Shareef   |        |      |
| Engineer: Mohamed Muthithalo Waleed |        |      |
| Drawn by: Mariyam Leevan Jaleel     |        |      |
| Services: Ashraf Ahmed              |        |      |
| Interior: -                         |        |      |



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Title: Truss Type TR1

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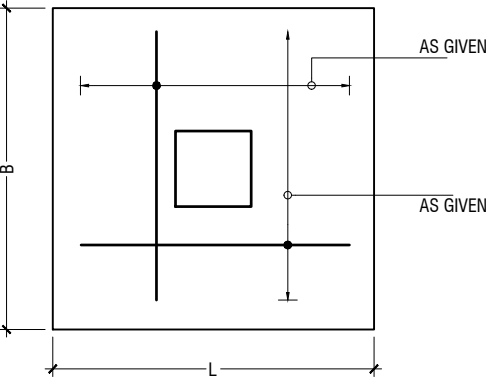
|    | DIMENSION (LXBXD) | REINFORCEMENT       |
|----|-------------------|---------------------|
| F1 | 1800 x 1800 x 300 | T16@150 C/C B/W (B) |
| F2 | 1600 x 1600 x 300 | T12@150 C/C B/W (B) |
| F3 | 1400 x 1400 x 300 | T12@150 C/C B/W (B) |
| F4 | 1200 x 1200 x 300 | T12@150 C/C B/W (B) |
| F5 | 1100 x 1100 x 300 | T12@150 C/C B/W (B) |
| F6 | 750 x 750 x 300   | T12@150 C/C B/W (B) |

FOUNDATION DEPTH = 1200mm

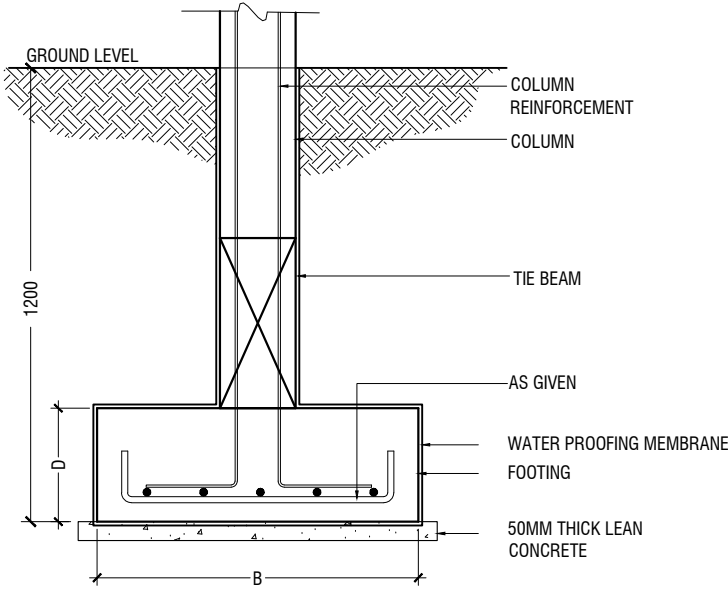
NOTE:-  
COVER TO FOUNDATION = 50mm  
COVER TO COLUMNS = 40mm  
COVER TO BEAMS = 35mm  
LAPS = Ø OF BAR x 45  
BEAMS @END SUPPORT = Ø OF BAR x 12

CONCRETE GRADE = M25

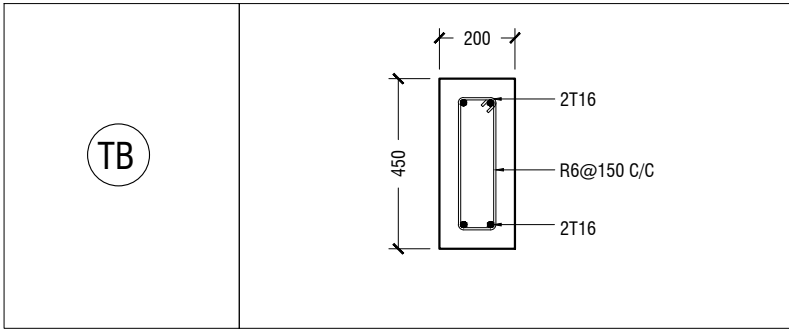
FOUNDATION PADS



PLAN



TYPICAL FOOTING SECTION

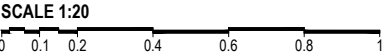


FOUNDATION DETAILS

|    | GROUND & 1ST FLOOR |
|----|--------------------|
| C1 |                    |
| C2 |                    |
| C3 |                    |
| C4 |                    |
| SC |                    |

COLUMN DETAIL

STRUCTURAL DETAILS - 1



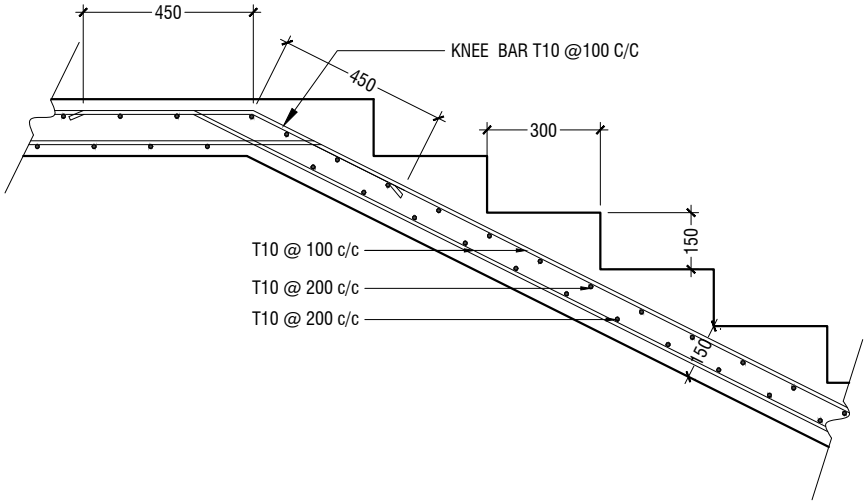
|    | MIDSPAN | SUPPORT |
|----|---------|---------|
| B1 |         |         |
| B2 |         |         |
| B3 |         |         |
| B4 |         |         |
| RB |         |         |
| HB |         |         |

BEAM DETAIL

NOTE:  
PROVIDE 25MM SPACER BAR @ 2000 C/C BETWEEN TWO LAYERS  
OF BEAM REINFORCEMENT

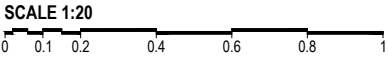
|     |  |
|-----|--|
| LT1 |  |
| LT2 |  |

LINTELS OVER ALL DOORS, WINDOWS  
(THAT DOES NOT RISE TO ROOF BEAM LEVEL)  
LT2 FOR WINDOW (W2) ONLY



MAIN STAIRCASE REINFORCEMENT DETAIL

STRUCTURAL DETAILS - 2

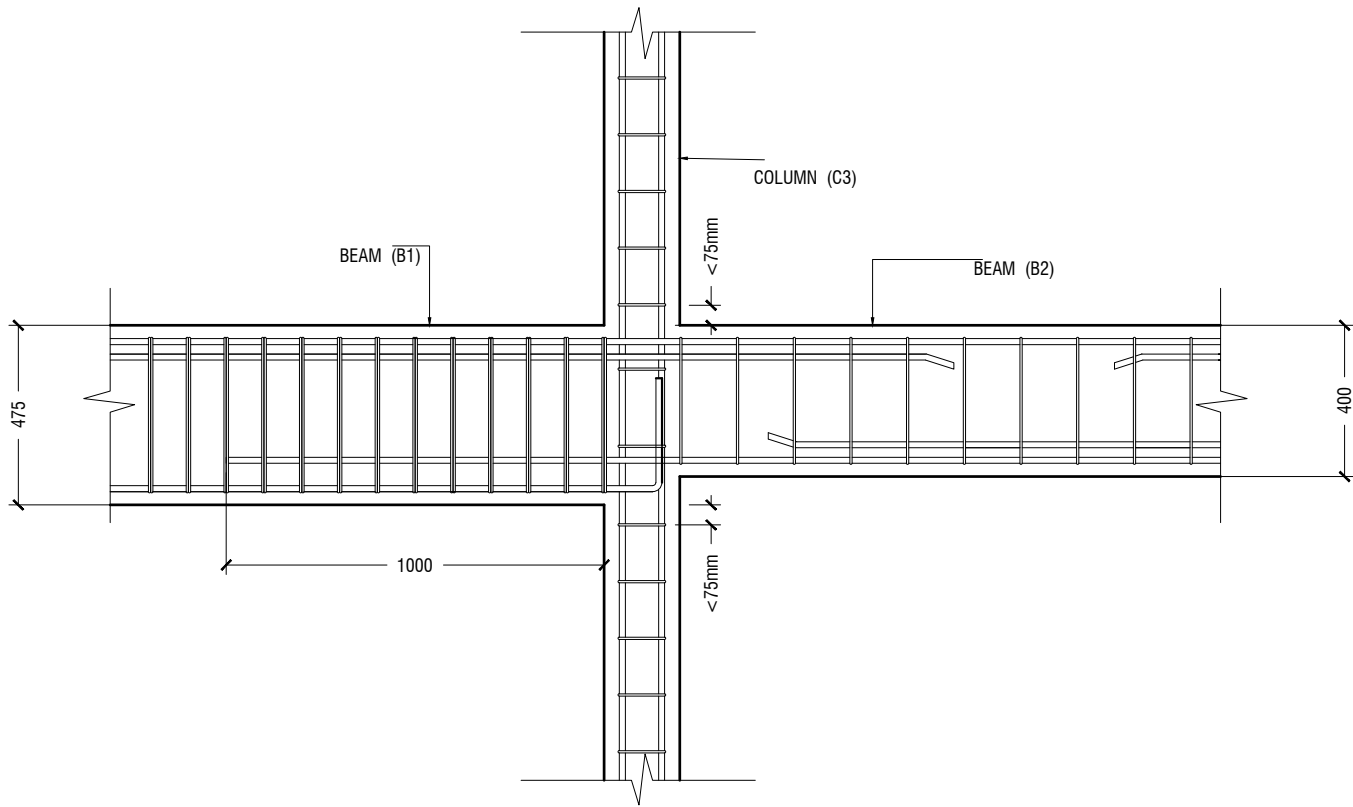


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Client: Ministry of Education

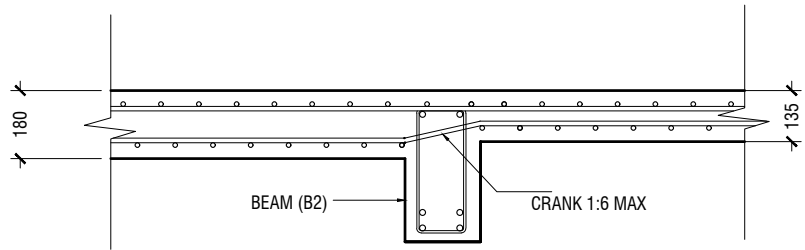
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Title: Structural Details - 2

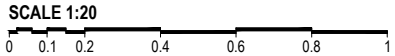


**B1 TO B2 CONNECTION DETAIL**



**SLAB THICKNESS REDUCTION DETAIL**

### STRUCTURAL DETAILS - 3



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Title: Structural Details - 3

Page: S-12/12

Th.Omadhoo School Health Room, Science Lab & 2 Classroom Block (2 story)

Client: Ministry of Education

|                                    |        |       |
|------------------------------------|--------|-------|
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| Date: April 2021                   | --     | ----- |
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| Engineer: Mohamed Muththalo Waleed | --     | ----- |
| Drawn by: Mariyam Leevan Jaleel    | --     | ----- |
| Services: Ashath Ahmed             | --     | ----- |
| Interior: -                        | --     | ----- |

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