



Faculty Of Engineering  
Architecture Department  
Fourth Division

# Working Drawing

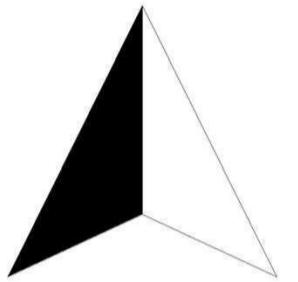
# Mall

Abdelsatter Ibrahim





Department of Architecture



N

|         |        |
|---------|--------|
| wall    | floor  |
| ceiling | wazara |

Important notes:

Key Note :

project title :

R.C.M Mall

Drawn by :

Abdelsatter Ibrahim

Third Division

Page No :

A01

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Schedules

scale 1:

| Door Schedule                            |      |        |       |
|--|------|--------|-------|
| Family                                   | Dim  | Height | Count |
| 0.75<br>M_Single-Flush                   | 0.75 | 2.20   | 19    |
| 0.76<br>M_Single-Flush                   | 0.76 | 2.20   | 86    |
| 0.86<br>M_Single-Flush                   | 0.86 | 2.20   | 19    |
| 0.92<br>M_Single-Flush                   | 0.92 | 2.20   | 251   |
| 1.07<br>M_Door-Curtain-Wall-Double-Glass | 1.07 | 2.35   | 2     |
| 1.08<br>M_Door-Curtain-Wall-Double-Glass | 1.08 | 2.35   | 1     |
| 1.14<br>M_Door-Curtain-Wall-Double-Glass | 1.14 | 2.35   | 4     |
| 1.16<br>M_Door-Curtain-Wall-Double-Glass | 1.16 | 2.35   | 3     |
| 1.19<br>M_Door-Curtain-Wall-Double-Glass | 1.19 | 2.35   | 4     |
| 1.21<br>M_Door-Curtain-Wall-Double-Glass | 1.21 | 2.35   | 3     |
| 1.24<br>M_Door-Curtain-Wall-Double-Glass | 1.24 | 2.35   | 3     |
| 1.26<br>M_Door-Curtain-Wall-Double-Glass | 1.26 | 2.35   | 3     |
| 1.31<br>M_Door-Curtain-Wall-Double-Glass | 1.31 | 2.35   | 1     |
| 1.34<br>M_Door-Curtain-Wall-Double-Glass | 1.34 | 2.35   | 1     |

| Wall Schedule                             |                      |                      |  |
|---|----------------------|----------------------|--|
| Family and Type                           | Structural Material  | Area                 |  |
| Basic Wall: core-Walls                    |                      |                      |  |
| Basic Wall: core-Walls                    | Concrete for column  | 2492 m <sup>2</sup>  |  |
| Basic Wall: EX-Walls                      |                      |                      |  |
| Basic Wall: EX-Walls                      | walls                | 13994 m <sup>2</sup> |  |
| Basic Wall: EX-Walls for stair handrill   | walls                | 1 m <sup>2</sup>     |  |
| Basic Wall: EX-Walls for stair handrill   |                      |                      |  |
| Basic Wall: IN-Walls                      |                      |                      |  |
| Basic Wall: IN-Walls                      | Brick, Common        | 13211 m <sup>2</sup> |  |
| Basic Wall: IN-Walls for expanotion joint |                      |                      |  |
| Basic Wall: IN-Walls for expanotion joint | Brick for expanotion | 521 m <sup>2</sup>   |  |
| Curtain Wall: Exterior Glazing            |                      |                      |  |
| Curtain Wall: Exterior Glazing            |                      | 1325 m <sup>2</sup>  |  |
| Curtain Wall: Exterior Glazing 2          |                      |                      |  |
| Curtain Wall: Exterior Glazing 2          |                      | 1230 m <sup>2</sup>  |  |
| Curtain Wall: Storefront                  |                      |                      |  |
| Curtain Wall: Storefront                  |                      | 3797 m <sup>2</sup>  |  |
| Curtain Wall: sucurite system             |                      |                      |  |
| Curtain Wall: sucurite system             |                      | 438 m <sup>2</sup>   |  |
| mid box: mid box                          |                      |                      |  |
| mid box: mid box                          |                      | 33 m <sup>2</sup>    |  |
| up beam: up beam                          |                      |                      |  |
| up beam: up beam                          |                      | 57 m <sup>2</sup>    |  |
| Walls 1: Walls 1                          |                      |                      |  |
| Walls 1: Walls 1                          |                      | 21 m <sup>2</sup>    |  |
| Grand total: 780                          |                      | 37121 m <sup>2</sup> |  |

| commercial Schedule |                   |        |      |
|---------------------|-------------------|--------|------|
| Level               | Area              | Number | Name |
| 01- Ground          | 78 m <sup>2</sup> | 1      |      |
| 01- Ground          | 62 m <sup>2</sup> | 2      | shop |
| 01- Ground          | 69 m <sup>2</sup> | 3      | shop |
| 01- Ground          | 70 m <sup>2</sup> | 4      | shop |
| 01- Ground          | 63 m <sup>2</sup> | 5      | shop |
| 01- Ground          | 85 m <sup>2</sup> | 6      | shop |
| 01- Ground          | 21 m <sup>2</sup> | 7      | shop |
| 01- Ground          | 54 m <sup>2</sup> | 8      | shop |
| 01- Ground          | 50 m <sup>2</sup> | 9      | shop |
| 01- Ground          | 55 m <sup>2</sup> | 10     | shop |
| 01- Ground          | 53 m <sup>2</sup> | 11     | shop |
| 01- Ground          | 60 m <sup>2</sup> | 12     | shop |
| 02- First           | 74 m <sup>2</sup> | 13     | shop |
| 02- First           | 49 m <sup>2</sup> | 14     | shop |
| 02- First           | 62 m <sup>2</sup> | 15     | shop |
| 02- First           | 63 m <sup>2</sup> | 16     | shop |
| 02- First           | 57 m <sup>2</sup> | 17     | shop |
| 02- First           | 52 m <sup>2</sup> | 18     | shop |
| 02- First           | 42 m <sup>2</sup> | 19     | shop |
| 02- First           | 30 m <sup>2</sup> | 20     | shop |
| 02- First           | 62 m <sup>2</sup> | 21     | shop |
| 02- First           | 58 m <sup>2</sup> | 22     | shop |
| 02- First           | 63 m <sup>2</sup> | 23     | shop |
| 02- First           | 60 m <sup>2</sup> | 24     | shop |
| 02- First           | 67 m <sup>2</sup> | 25     | shop |
| 03- Second          | 74 m <sup>2</sup> | 26     | shop |
| 03- Second          | 49 m <sup>2</sup> | 27     | shop |
| 03- Second          | 62 m <sup>2</sup> | 28     | shop |
| 03- Second          | 63 m <sup>2</sup> | 29     | shop |
| 03- Second          | 57 m <sup>2</sup> | 30     | shop |
| 03- Second          | 52 m <sup>2</sup> | 31     | shop |
| 03- Second          | 42 m <sup>2</sup> | 32     | shop |
| 03- Second          | 30 m <sup>2</sup> | 33     | shop |
| 03- Second          | 63 m <sup>2</sup> | 34     | shop |
| 03- Second          | 59 m <sup>2</sup> | 35     | shop |
| 03- Second          | 63 m <sup>2</sup> | 36     | shop |
| 03- Second          | 61 m <sup>2</sup> | 37     | shop |
| 03- Second          | 67 m <sup>2</sup> | 38     | shop |

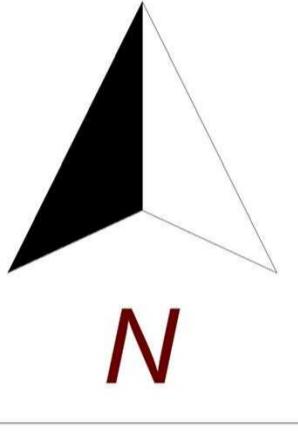
| Panel Schedule             |       |
|----------------------------|-------|
| Family and Type            | Count |
| Curtain Wall: Curtain Wall |       |
| Curtain Wall: Curtain Wall | 2     |
| Curtain Wall: Curtain Wall |       |

| Window Schedule                          |      |                      |             |
|--|------|----------------------|-------------|
| Family                                   | Dim  | Count                | Head Height |
| 1.36<br>M_Door-Curtain-Wall-Double-Glass | 1.36 | 2.35                 | 1           |
| 0.40<br>M_Window-Double-Hung             | 0.40 | 1.10                 | 9           |
| 1.44<br>M_Door-Curtain-Wall-Double-Glass | 1.44 | 2.35                 | 1           |
| 0.61<br>M_Fixed                          | 0.61 | 1.22                 | 97          |
| Grand total: 106                         |      | 2.12                 | 0.90        |
| Grand total: 780                         |      | 37121 m <sup>2</sup> |             |

| تشطيبات دور الباروم |                   |             |            |                   |                    |                   |                   |               |                  |                  |                  |
|---------------------|-------------------|-------------|------------|-------------------|--------------------|-------------------|-------------------|---------------|------------------|------------------|------------------|
| ملاحظات             | وزرات             | اسقف        | الحوائط    | الارضيات          | اسم الفراغ         | للياته            | سيراميك 45*45     | بورسلين 45*45 | اسمنتية 45*45    | اسمنتية 45*45    | اسمنتية 45*45    |
| لا توجد وزرات       | تربيتا رمادي 2 سم | جليسوم أبيض | دهان بوردو | رخام جلاكتي       | دهان سيراميك 45*45 | دهان فانيلا       | دهان بلاستيك أبيض | دهان ازمازو   | دهان رخام جلاكتي | دهان رخام جلاكتي | دهان رخام جلاكتي |
| لا توجد وزرات       | تربيتا رمادي 2 سم | جليسوم أبيض | د          | دهان بلاستيك أبيض | دهان فانيلا        | دهان بلاستيك أبيض | دهان فانيلا       | دهان ازمازو   | دهان رخام جلاكتي | دهان رخام جلاكتي | دهان رخام جلاكتي |
| لا توجد وزرات       | تربيتا رمادي 2 سم | جليسوم أبيض | د          | دهان بلاستيك أبيض | دهان فانيلا        | دهان بلاستيك أبيض | دهان فانيلا       | دهان ازمازو   | دهان رخام جلاكتي | دهان رخام جلاكتي | دهان رخام جلاكتي |
| لا توجد وزرات       | تربيتا رمادي 2 سم | جليسوم أبيض | د          | دهان بلاستيك أبيض | دهان فانيلا        | دهان بلاستيك أبيض | دهان فانيلا       | دهان ازمازو   | دهان رخام جلاكتي | دهان رخام جلاكتي | دهان رخام جلاكتي |
| لا توجد وزرات       | تربيتا رمادي 2 سم | جليسوم أبيض | د          | دهان بلاستيك أبيض | دهان فانيلا        | دهان بلاستيك أبيض | دهان فانيلا       | دهان ازمازو   | دهان رخام جلاكتي | دهان رخام جلاكتي | دهان رخام جلاكتي |
| لا توجد وزرات       | تربيتا رمادي 2 سم | جليسوم أبيض | د          | دهان بلاستيك أبيض | دهان فانيلا        | دهان بلاستيك أبيض | دهان فانيلا       | دهان ازمازو   | دهان رخام جلاكتي | دهان رخام جلاكتي | دهان رخام جلاكتي |
| لا توجد وزرات       | تربيتا رمادي 2 سم | جليسوم أبيض | د          | دهان بلاستيك أبيض | دهان فانيلا        | دهان بلاستيك أبيض | دهان فانيلا       | دهان ازمازو   | دهان رخام جلاكتي | دهان رخام جلاكتي | دهان رخام جلاكتي |
| لا توجد وزرات       | تربيتا رمادي 2 سم | جليسوم أبيض | د          | دهان بلاستيك أبيض | دهان فانيلا        | دهان بلاستيك أبيض | دهان فانيلا       | دهان ازمازو   | دهان رخام جلاكتي | دهان رخام جلاكتي | دهان رخام جلاكتي |
| لا توجد وزرات       | تربيتا رمادي 2 سم | جليسوم أبيض | د          | دهان بلاستيك أبيض | دهان فانيلا        | دهان بلاستيك أبيض | دهان فانيلا       | دهان ازمازو   | دهان رخام جلاكتي | دهان رخام جلاكتي | دهان رخام جلاكتي |
| لا توجد وزرات       | تربيتا رمادي 2 سم | جليسوم أبيض | د          | دهان بلاستيك أبيض | دهان فانيلا        | دهان بلاستيك أبيض | دهان فانيلا       | دهان ازمازو   | دهان رخام جلاكتي | دهان رخام جلاكتي | دهان رخام جلاكتي |
| لا توجد وزرات       | تربيتا رمادي 2 سم | جليسوم أبيض | د          | دهان بلاستيك أبيض | دهان فانيلا        | دهان بلاستيك أبيض | دهان فانيلا       |               |                  |                  |                  |



Department of Architecture



wall floor  
ceiling wazara

Important notes:

Key Note :

project title :

R.C.M Mall

Drawn by :

**Abdelsatter Ibrahim**

Third Division

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A02

Page Name :

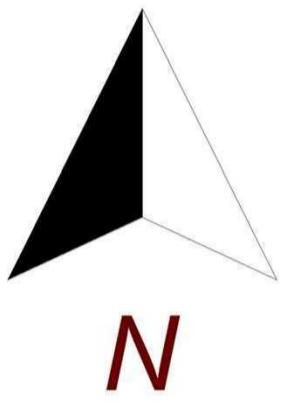
Doors&Windows

scale 1: 20

|        | Door for wet area   | Door for secondary entrances  | Door for residential and medical spaces  | Door for secondary entrances                     |
|--------|---|---|--|--|
| facade |   |   |  |  |
| plane  |   |   |  |  |
|        | <p>Wooden door made of musky wood, size 220 cm * 76 cm<br/>Taking into account the accessories specified by the supervising engineer</p>                  | <p>Wooden door made of musky wood, size 220 cm * 92 cm<br/>Taking into account the accessories specified by the supervising engineer</p>                  | <p>Wooden door made of musky wood, size 213 cm * 86 cm<br/>Taking into account the accessories specified by the supervising engineer</p> | <p>Securit glass door for the main entrances</p> |
| facade |   |   |  |  |
| plane  |   |   |  |  |
|        | <p>Window made of PVC sections filled with 6 mm thick semi-opaque glass<br/>Taking into account the accessories specified by the supervising engineer</p> | <p>Window made of PVC sections filled with 6 mm thick semi-opaque glass<br/>Taking into account the accessories specified by the supervising engineer</p> |  |  |



Department of Architecture



wall floor  
ceiling wazara

Important notes:

Key Note :

project title :

R.C.M Mall

Drawn by :

Abdelsatter Ibrahim

Third Division

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A03

Page Name :

Layout

scale 1:500

Neighbor

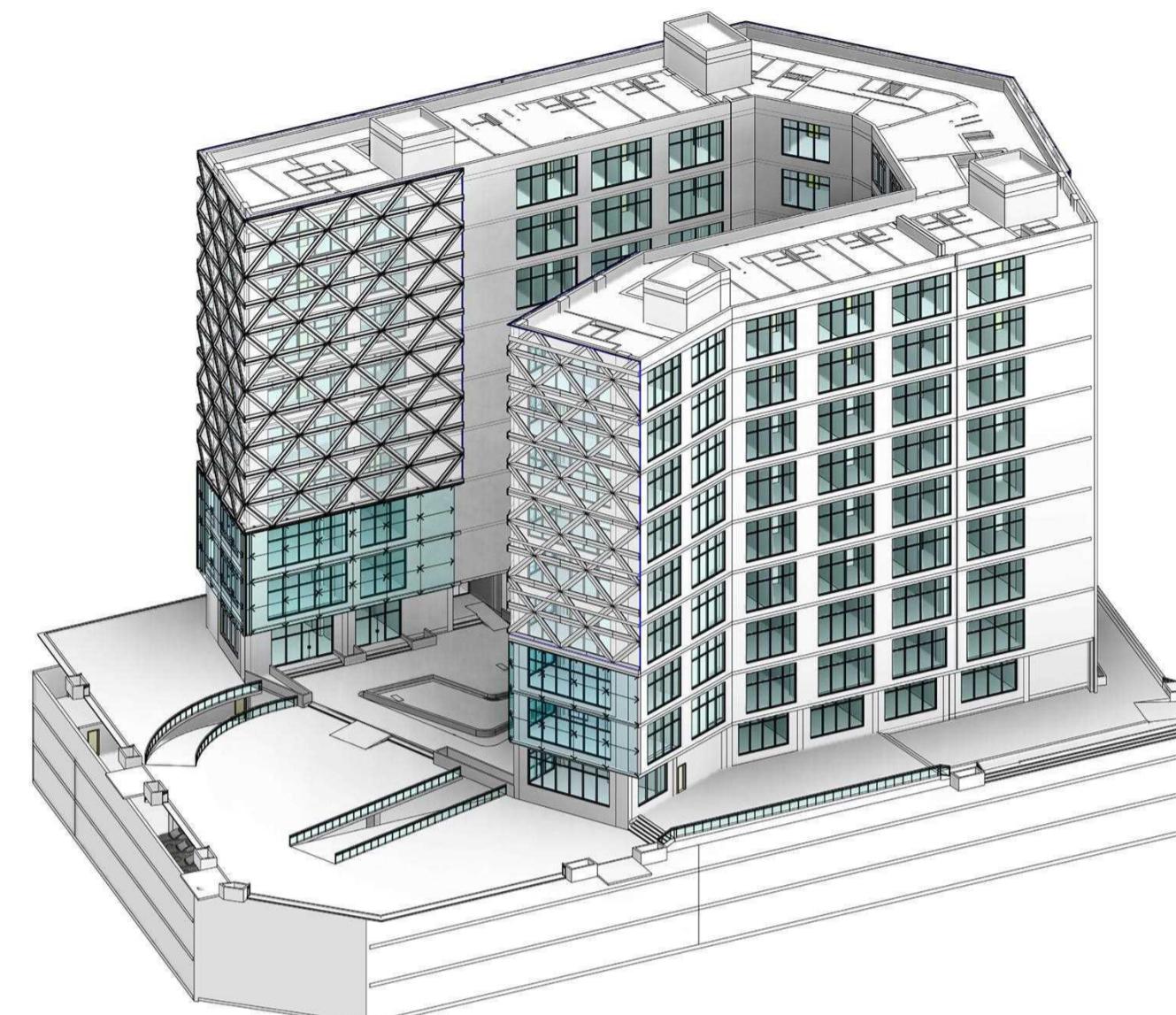
street

main street

main street

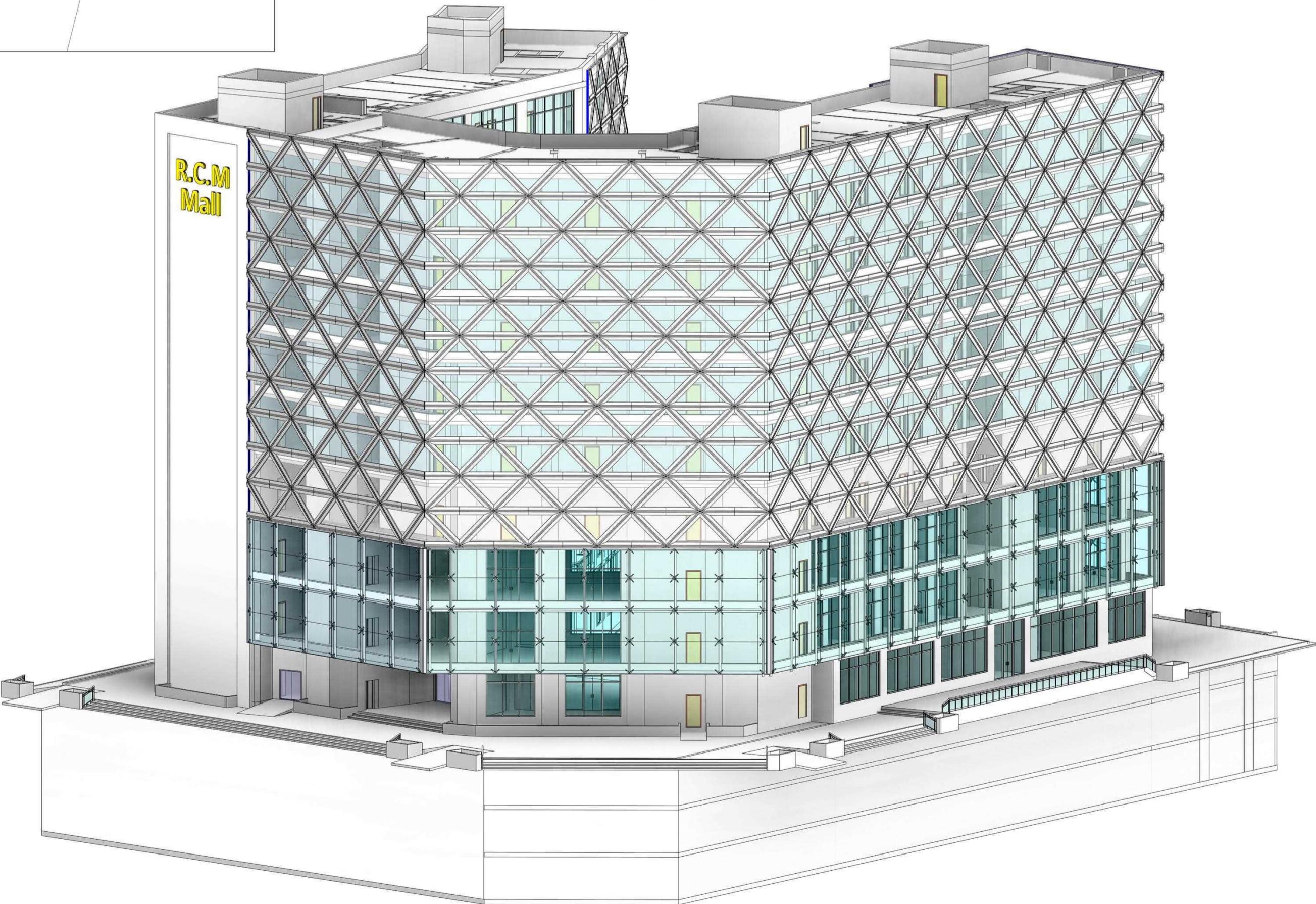
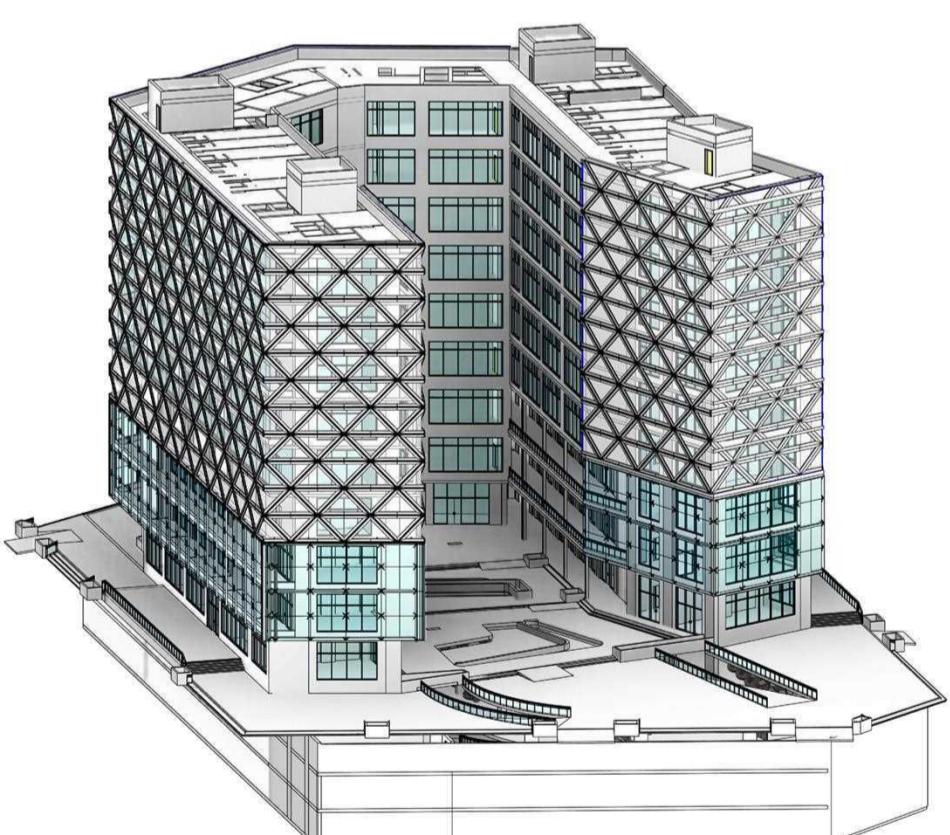
corridor

Neighbor



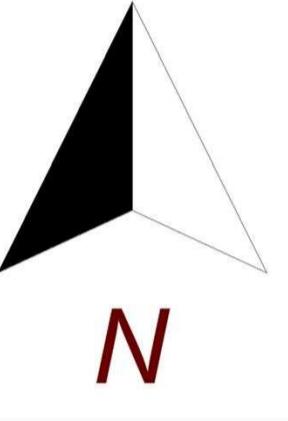
1 Layout

1 : 500





# Department of Architecture



N

|         |        |
|---------|--------|
| wall    | floor  |
| ceiling | wazara |

#### **Important notes:**

**Key Note :**

project title :

R.C.M Mall

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Abdelsatter Ibrahim

## Third Division

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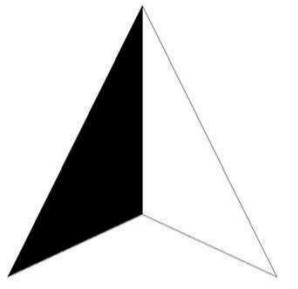
Page Name :

## Roof

1: 200



Department of Architecture



N

|         |        |
|---------|--------|
| wall    | floor  |
| ceiling | wazara |

#### Important notes:

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project title :

R.C.M Mall

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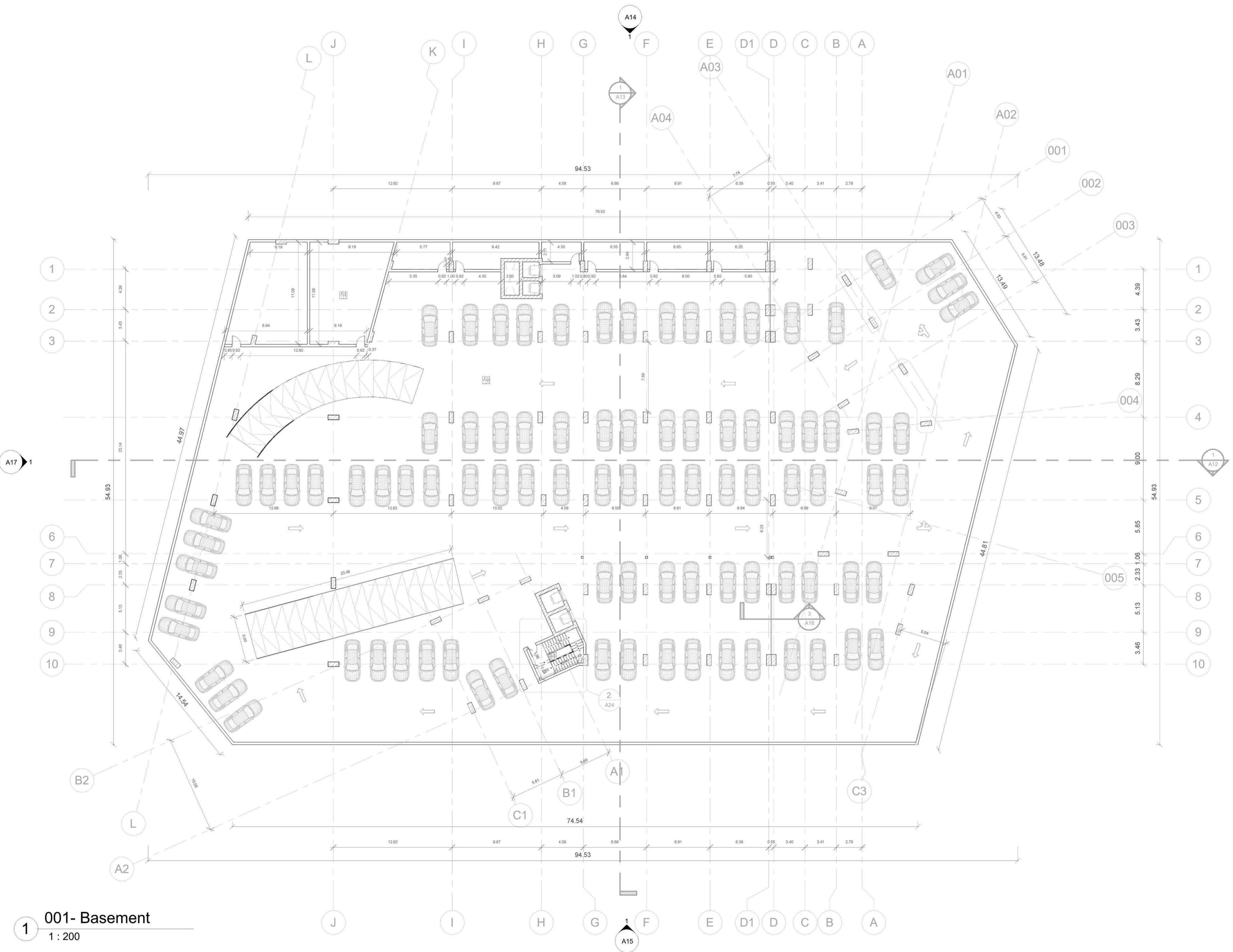
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## Basement

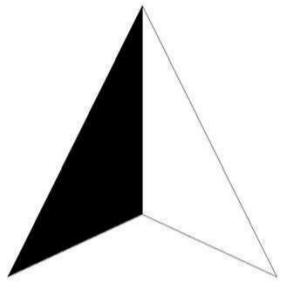
scale

1:200





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N

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| wall    | floor  |
| ceiling | wazara |

### Important notes:

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project title :

R.C.M Mall

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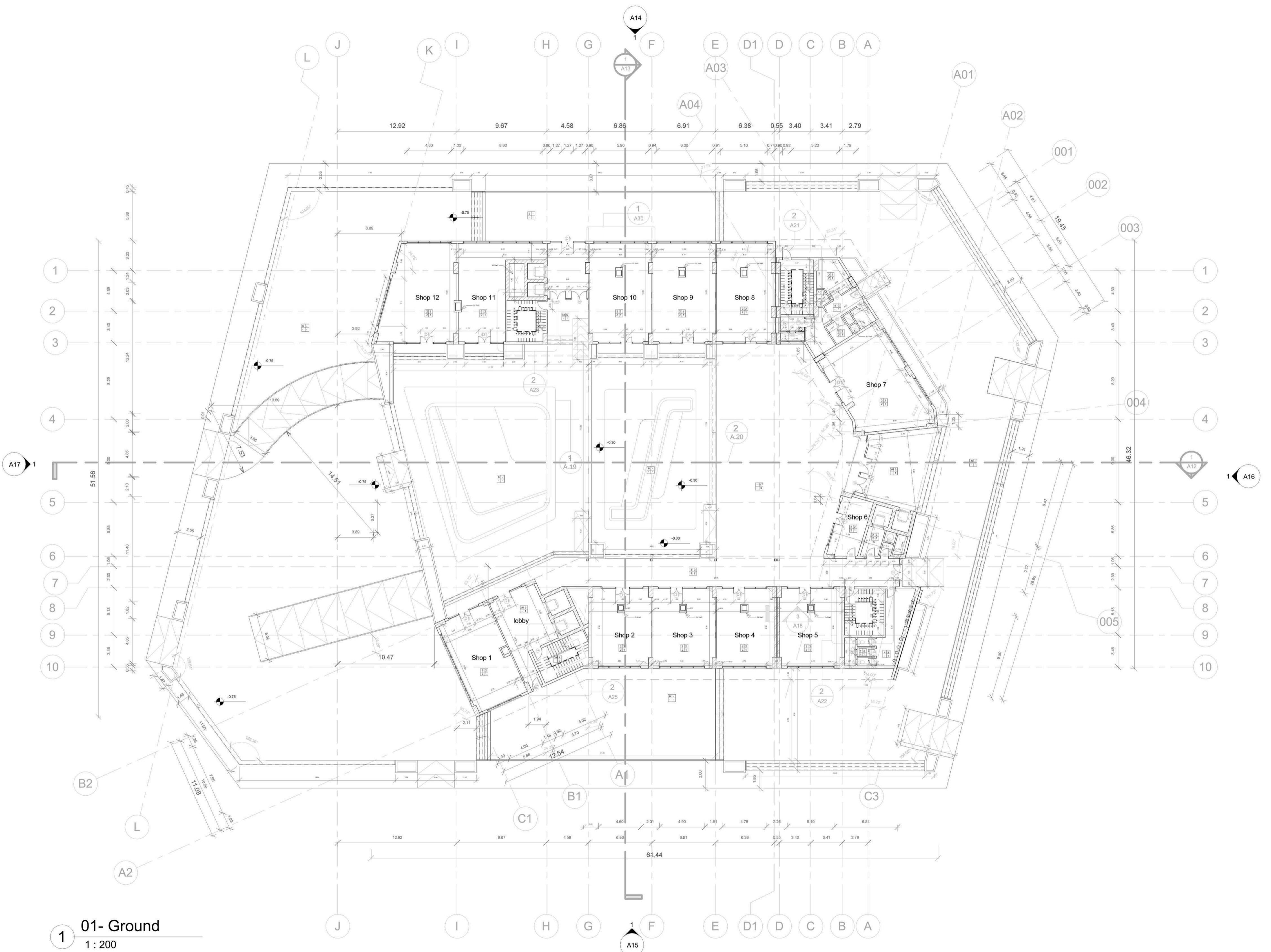
Abdelsatter Ibrahim

### Third Division

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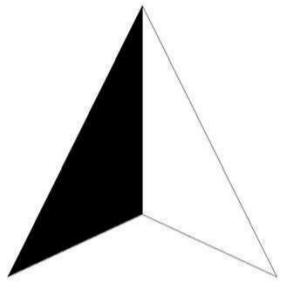
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N

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|---------|--------|
| wall    | floor  |
| ceiling | wazara |

Important notes:

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R.C.M Mall

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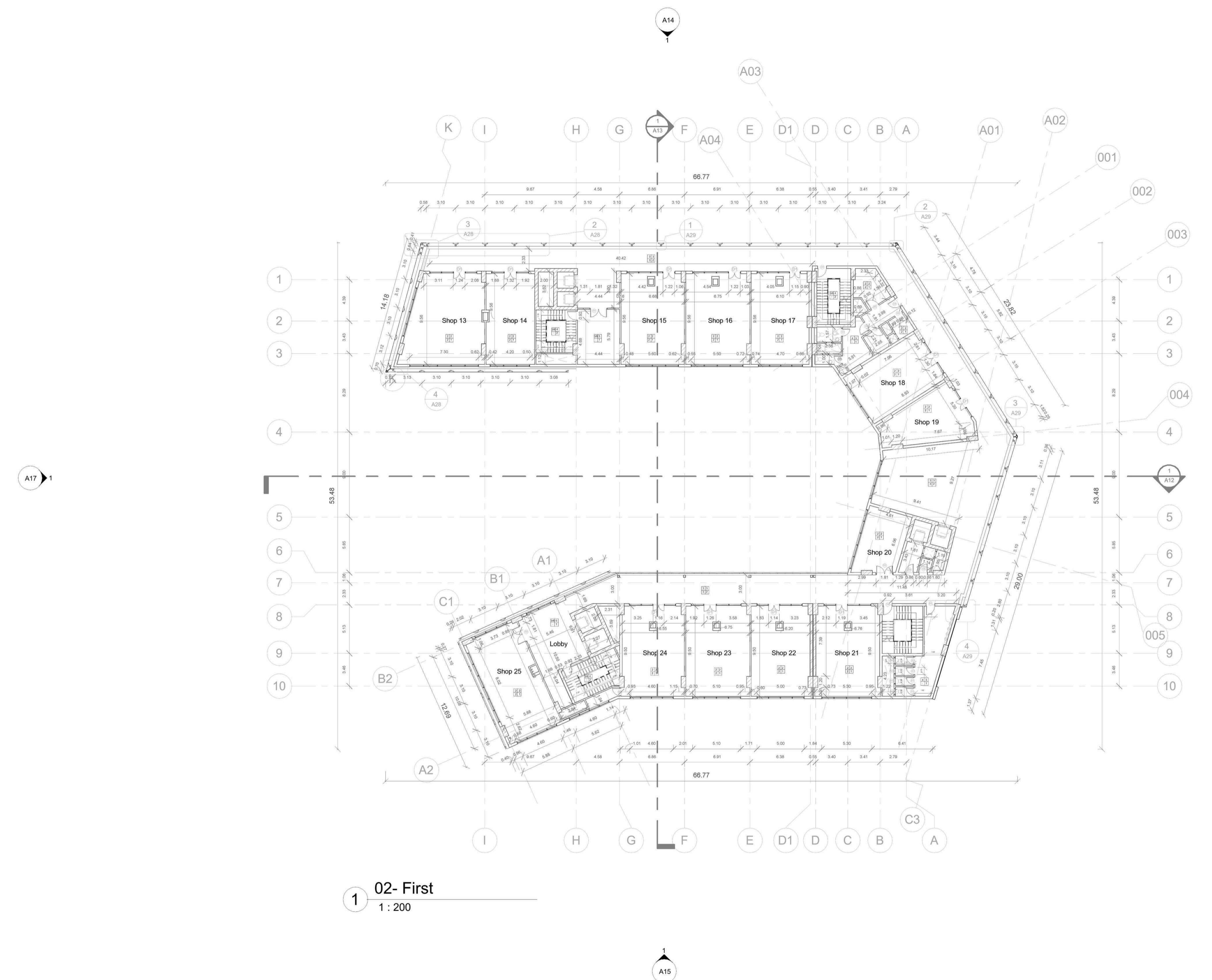
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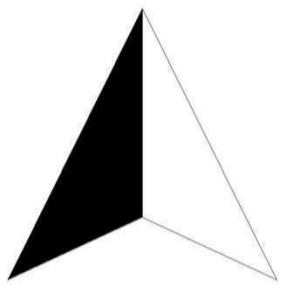
First

scale 1:200





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N

wall floor  
ceiling wazara

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R.C.M Mall

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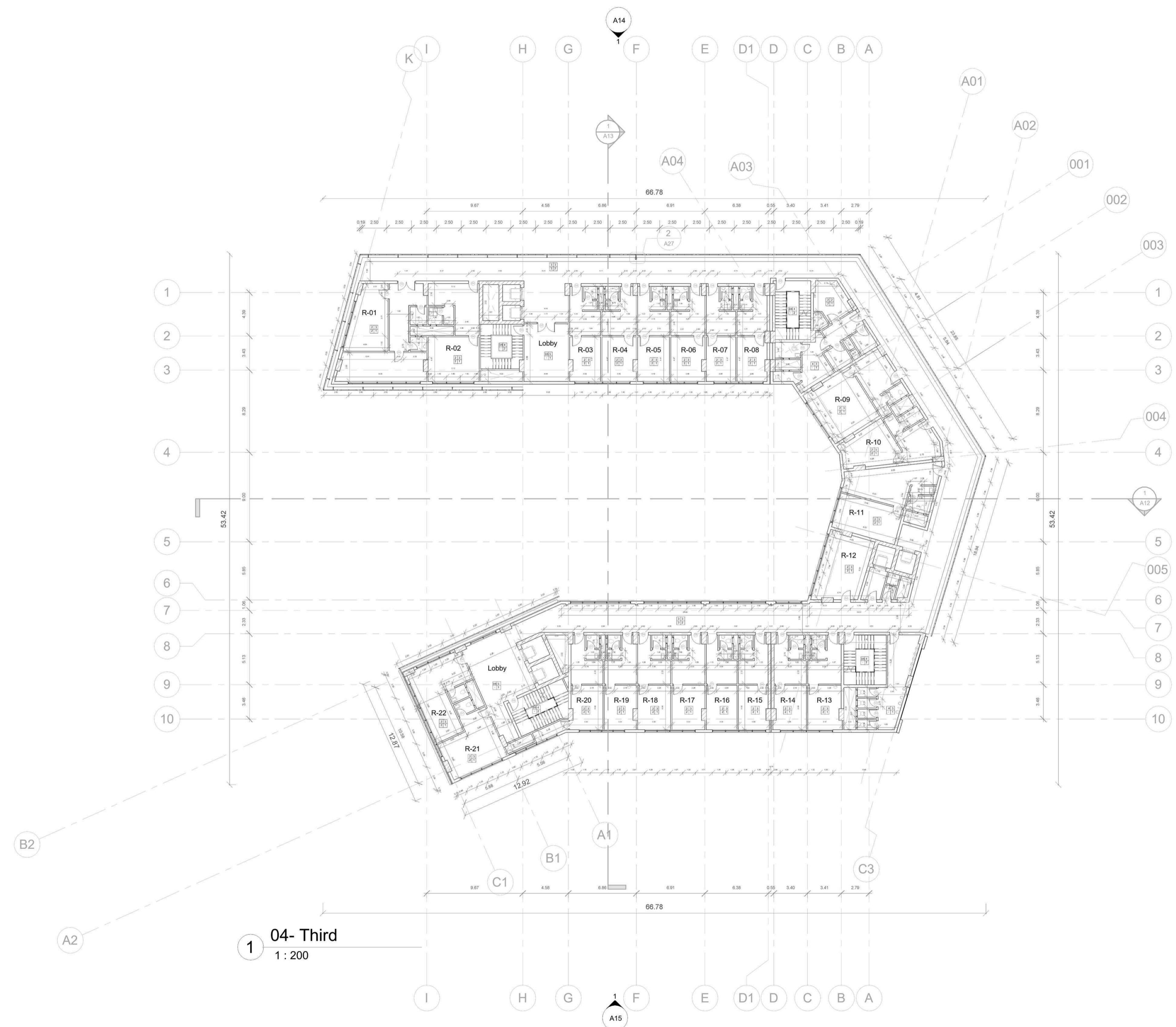
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Third

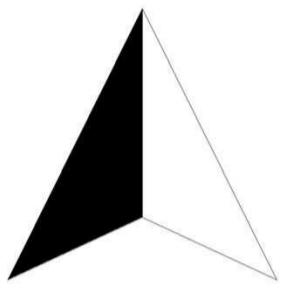
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04- Third  
1 : 200





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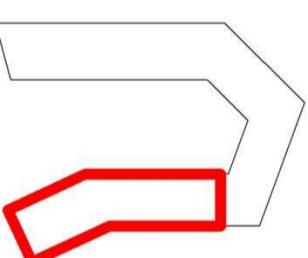


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|---------|--------|
| wall    | floor  |
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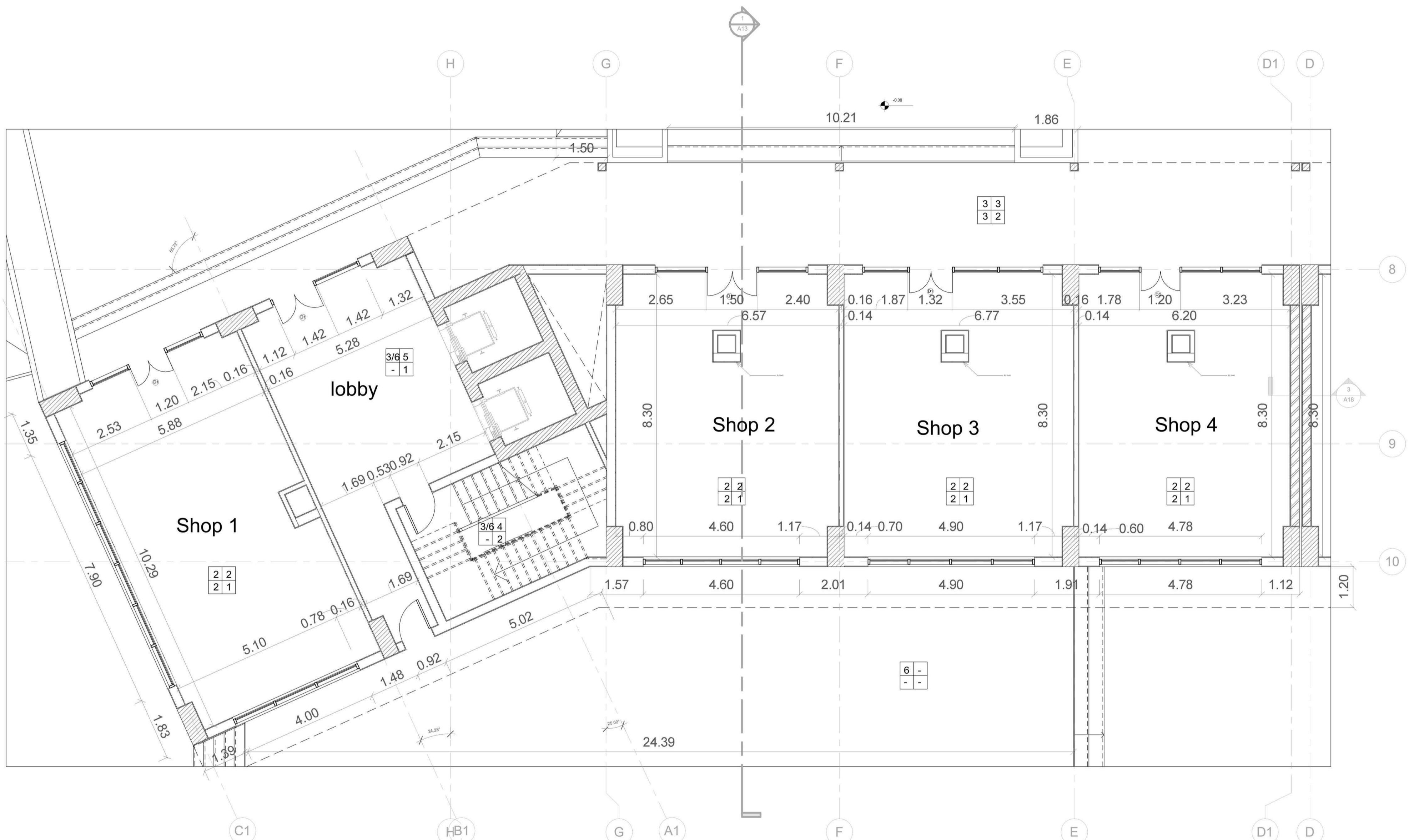
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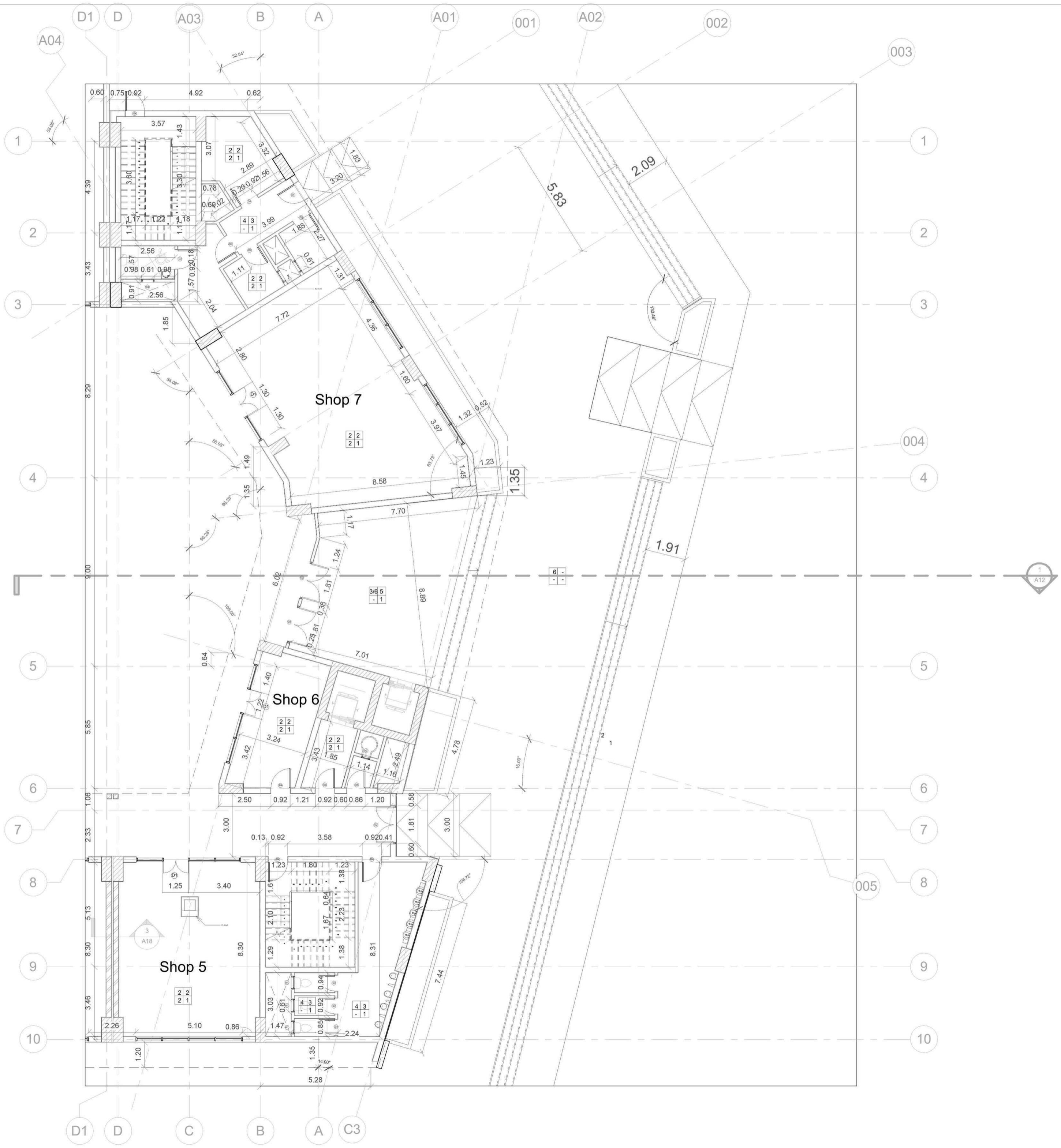
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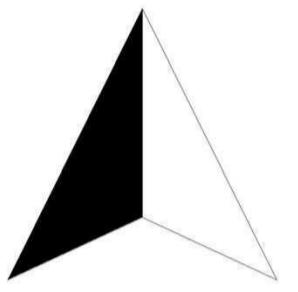
Ground-part 1

scale 1:100





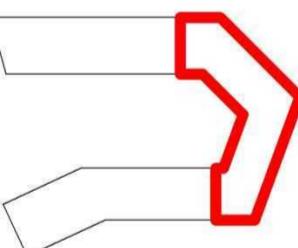
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|---------|--------|
| wall    | floor  |
| ceiling | wazara |

### Important notes:



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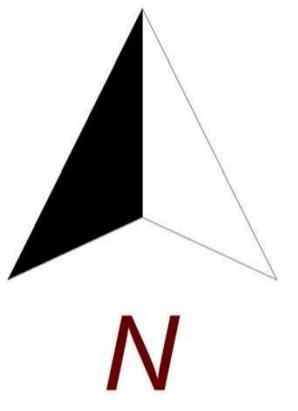
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## Ground-part 2

scale 1:100



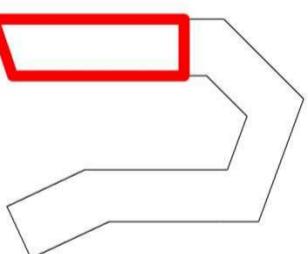
Department of Architecture



wall floor  
ceiling wazara

Important notes:

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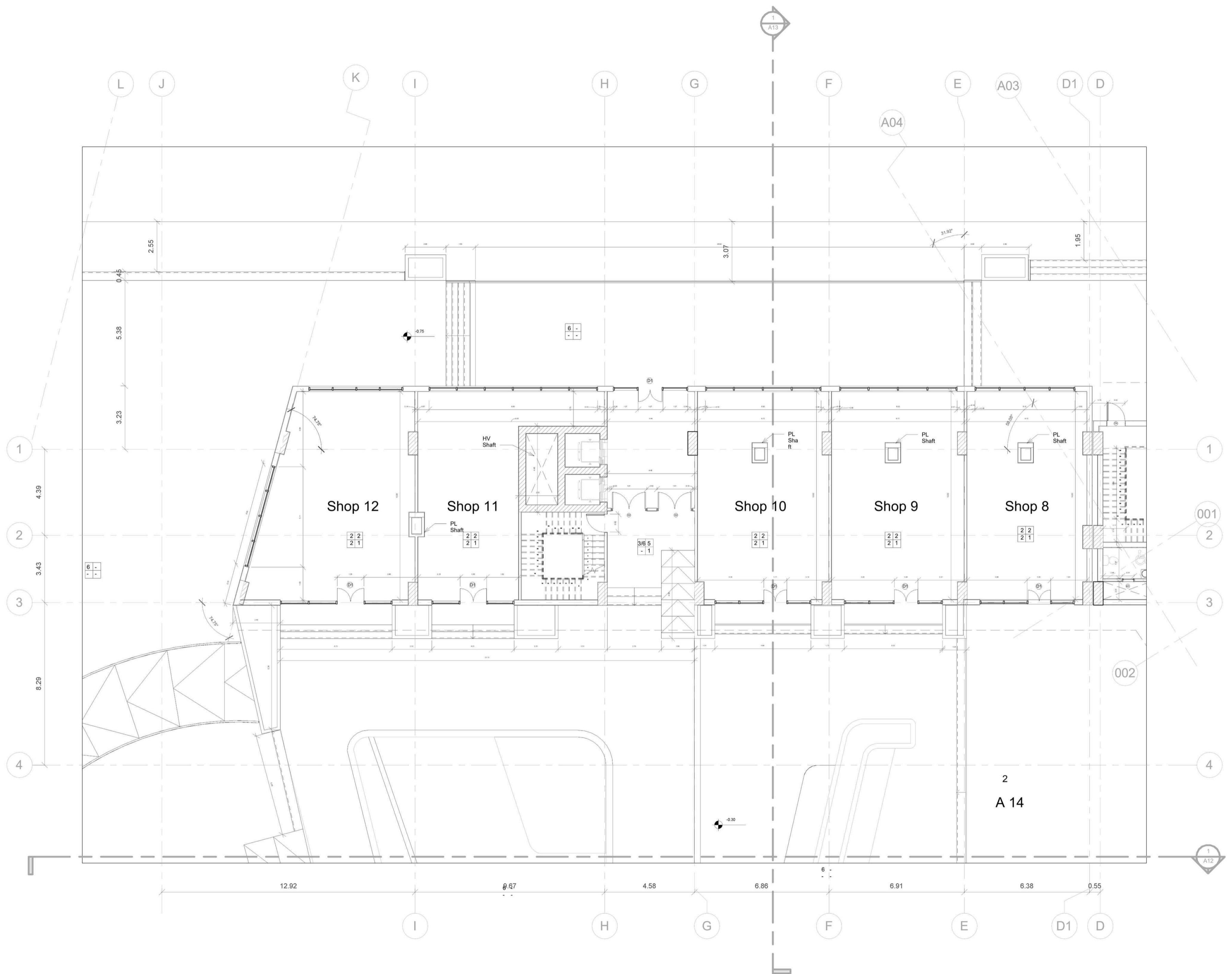
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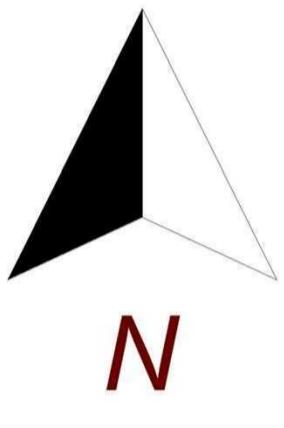
Ground-part 3

scale 1:100





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|---------|--------|
| wall    | floor  |
| ceiling | wazara |

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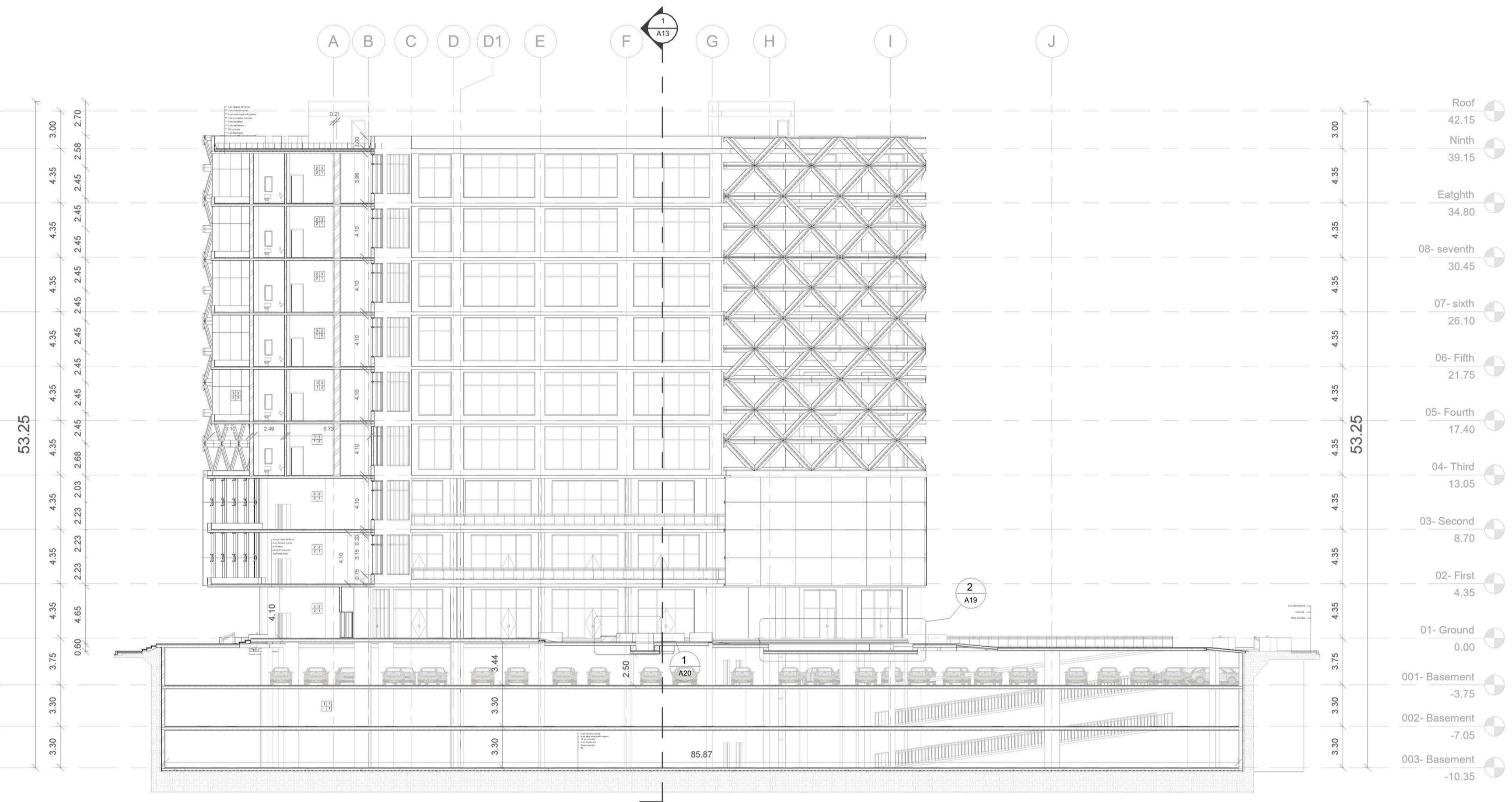
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Section 1

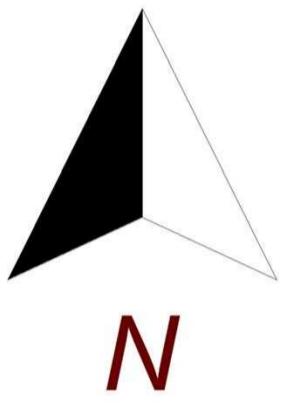
scale 1:200



Section 1  
1 : 200



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N

|         |        |
|---------|--------|
| wall    | floor  |
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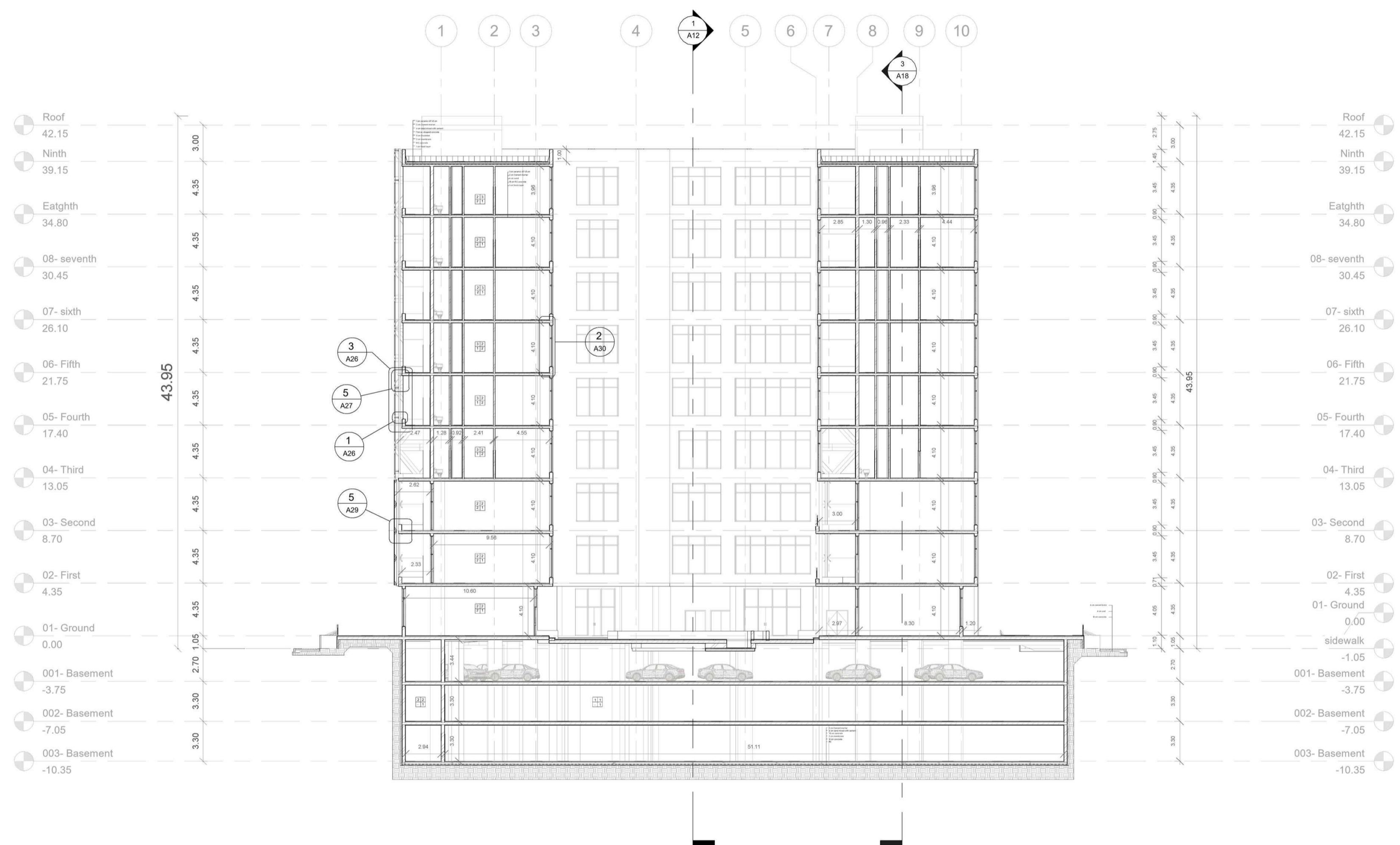
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Section 2

scale 1:200



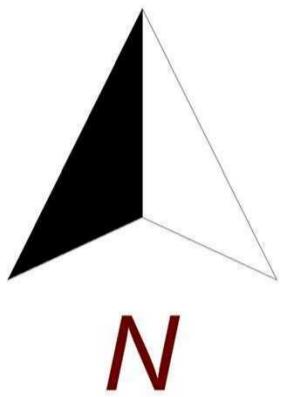
Page Name :

Section 2

scale 1:200



Department of Architecture



N

|         |        |
|---------|--------|
| wall    | floor  |
| ceiling | wazara |

Important notes:

Key Note :

project title :

R.C.M Mall

Drawn by :

Abdelsatter Ibrahim

Third Division

Page No :

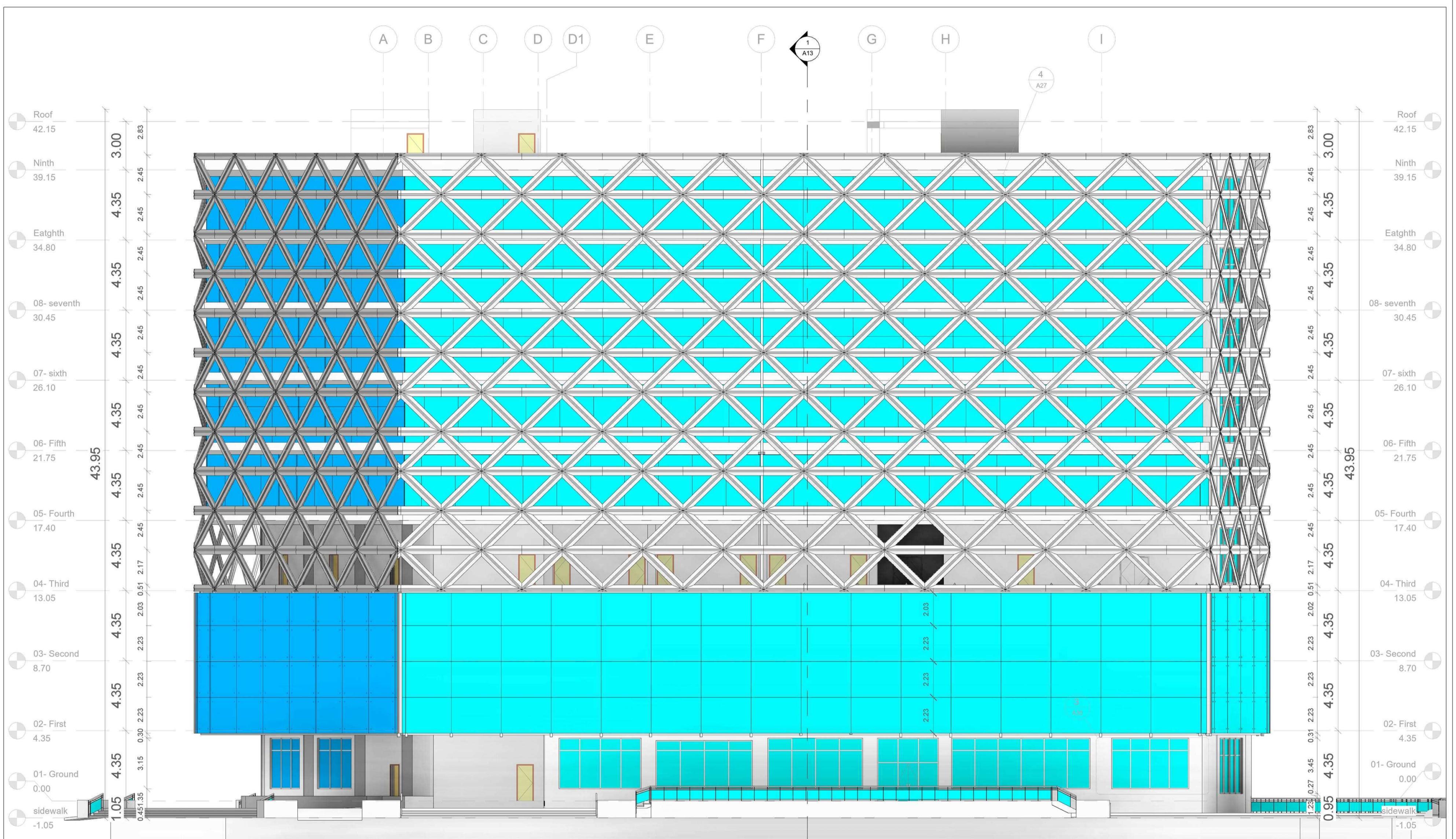
A14

Page Name :

North Facade

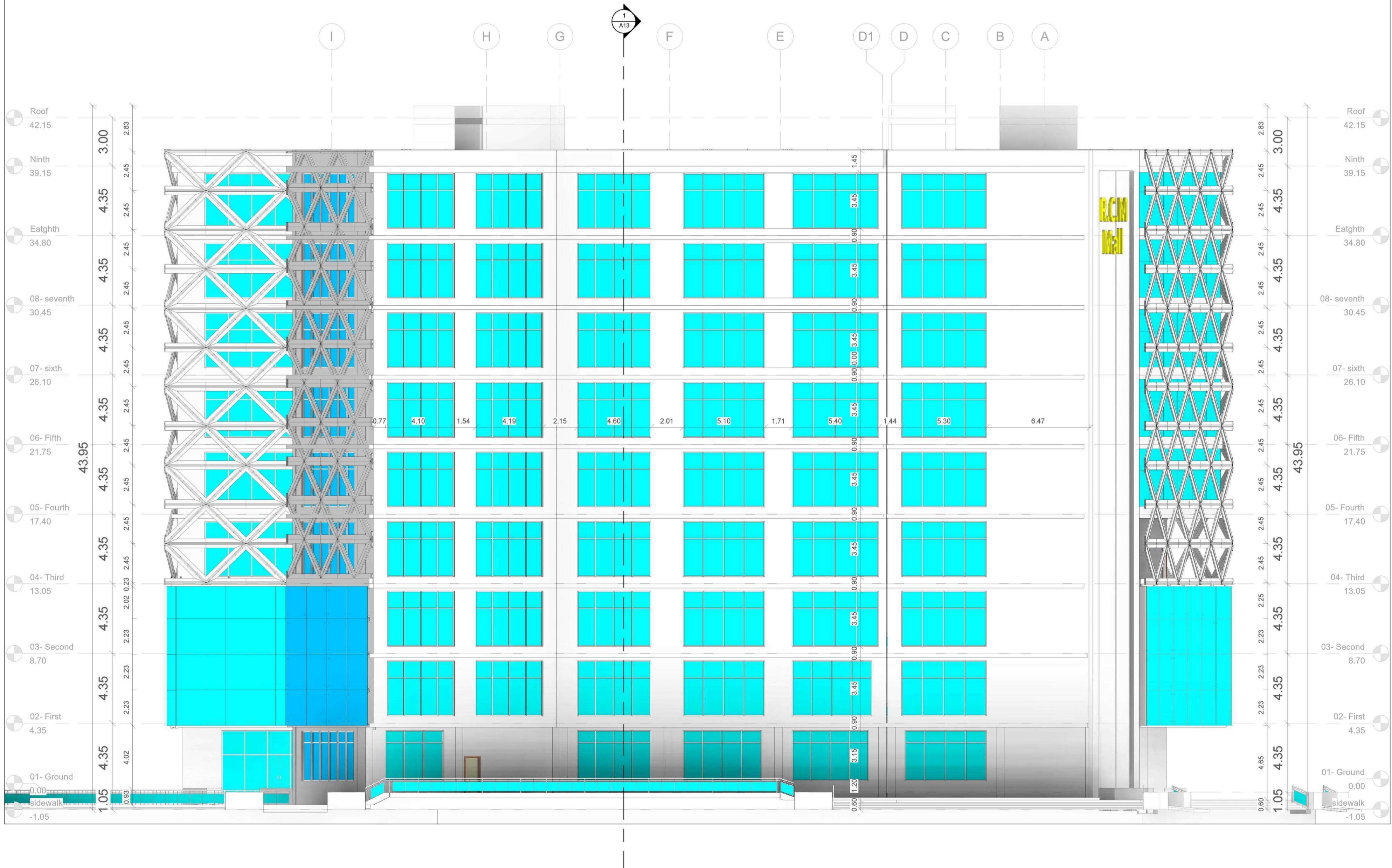
scale

1: 100





Department of Architecture



### Important notes:

#### **Key Note :**

project title :

R.C.M Mall

Drawn by :

Abdelsatter Ibrahim

Third Division

Page No :

A15

Page Name :

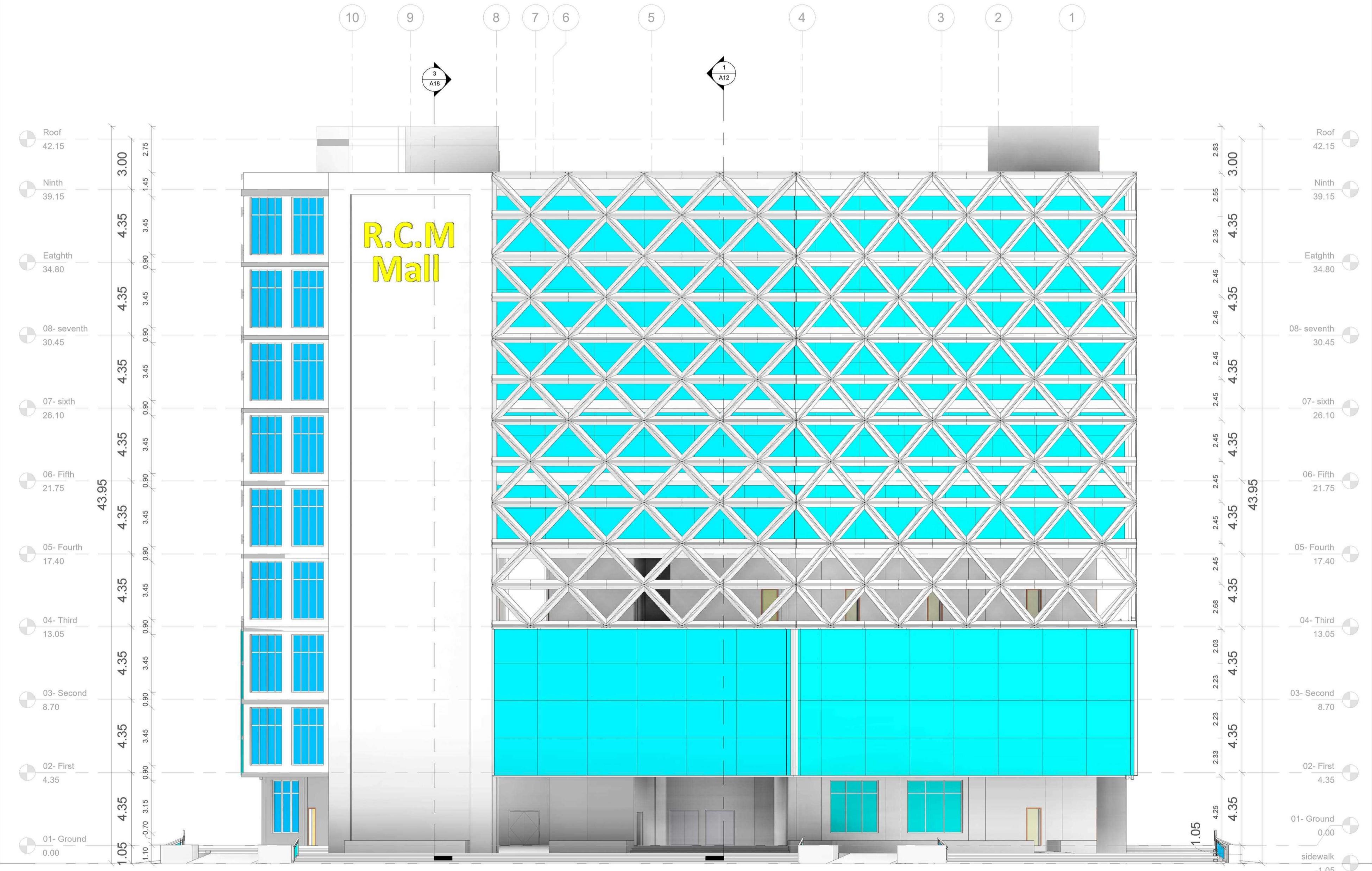
## south facade

scale

1:100



Department of Architecture



#### **Important notes:**

### **Key Note :**

project title :

R.C.M Mall

Drawn by :

Abdelsatter Ibrahim

### Third Division

Page No.:

A16

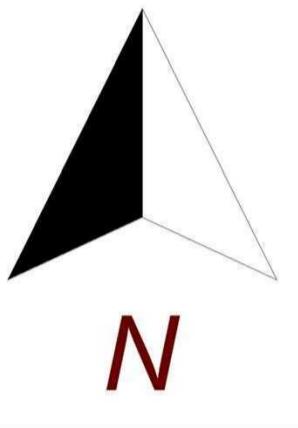
Page Name :

ANSWER

1:100



Department of Architecture



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|---------|--------|
| wall    | floor  |
| ceiling | wazara |

Important notes:

Key Note :

project title :

R.C.M Mall

Drawn by :

Abdelsatter Ibrahim

Third Division

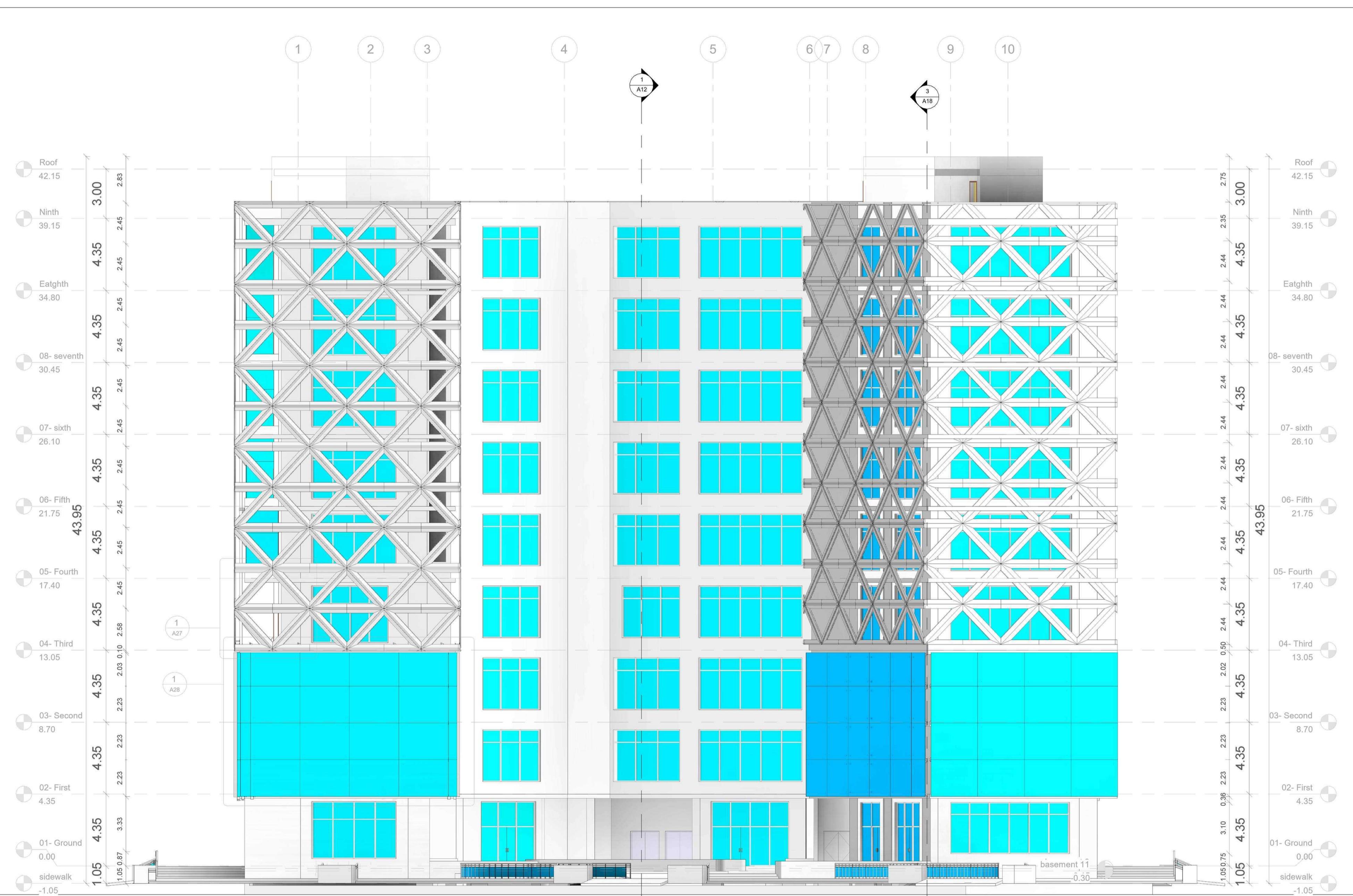
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A17

Page Name :

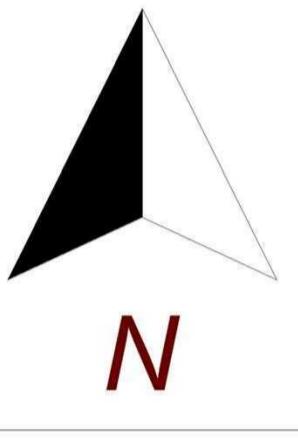
West facade

scale 1:100





Department of Architecture



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|---------|--------|
| wall    | floor  |
| ceiling | wazara |

Important notes:

Key Note :

project title :

R.C.M Mall

Drawn by :

Abdelsatter Ibrahim

Third Division

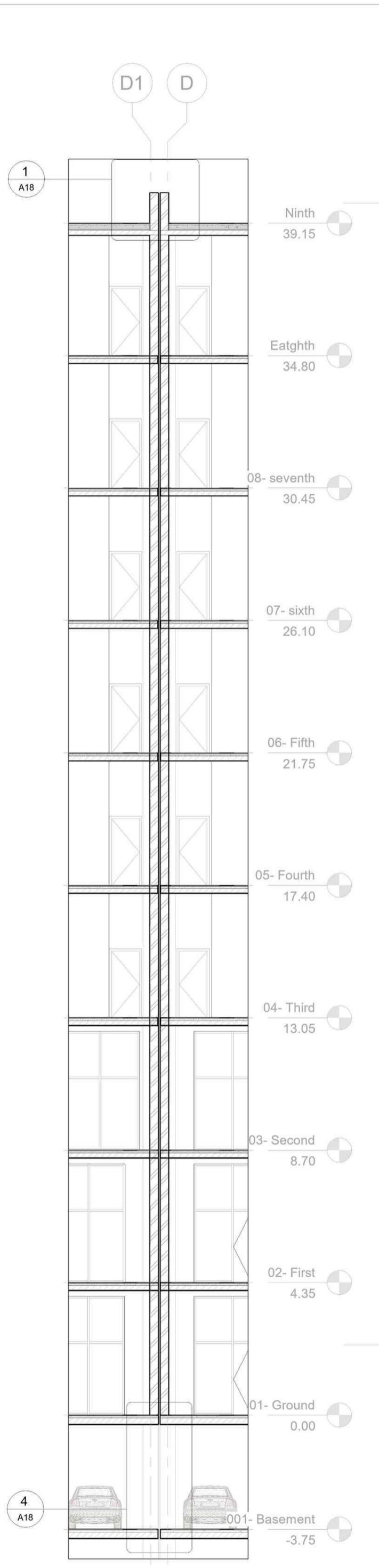
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A18

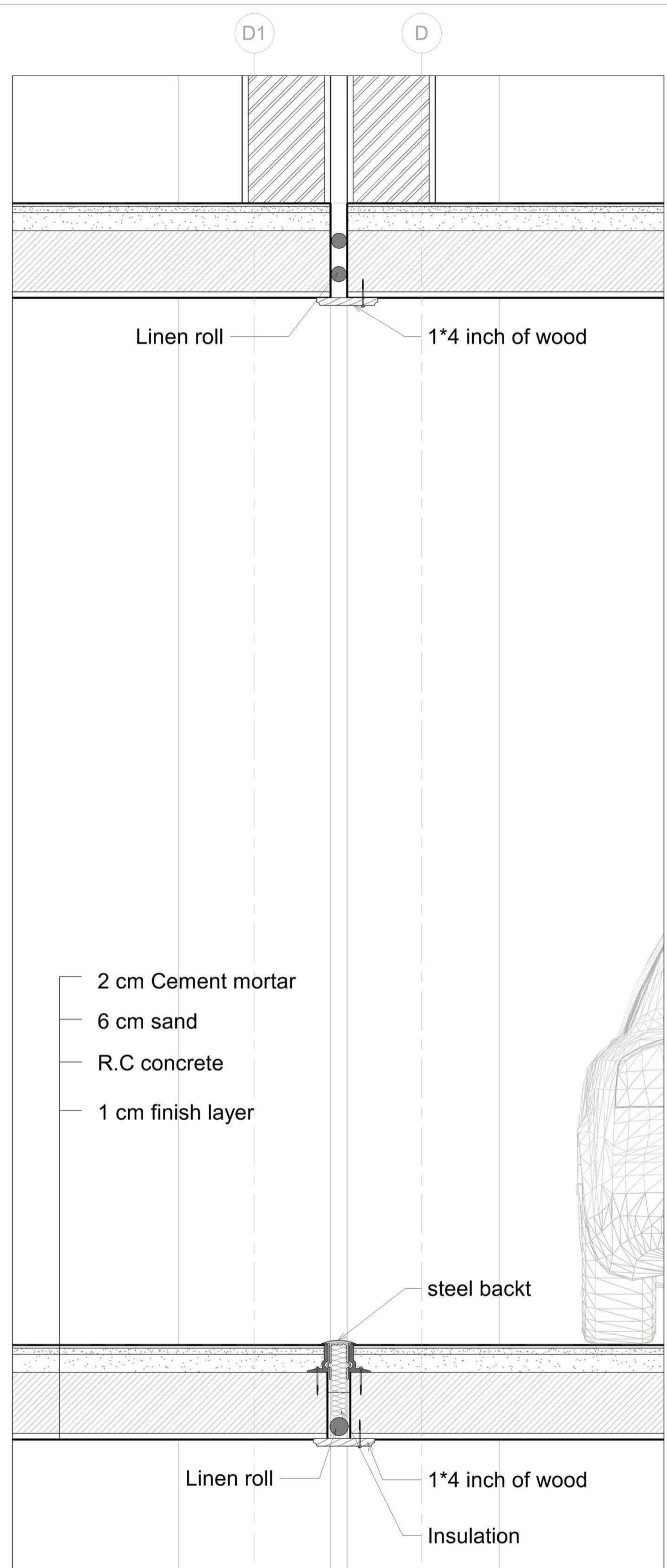
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Expansion Joint

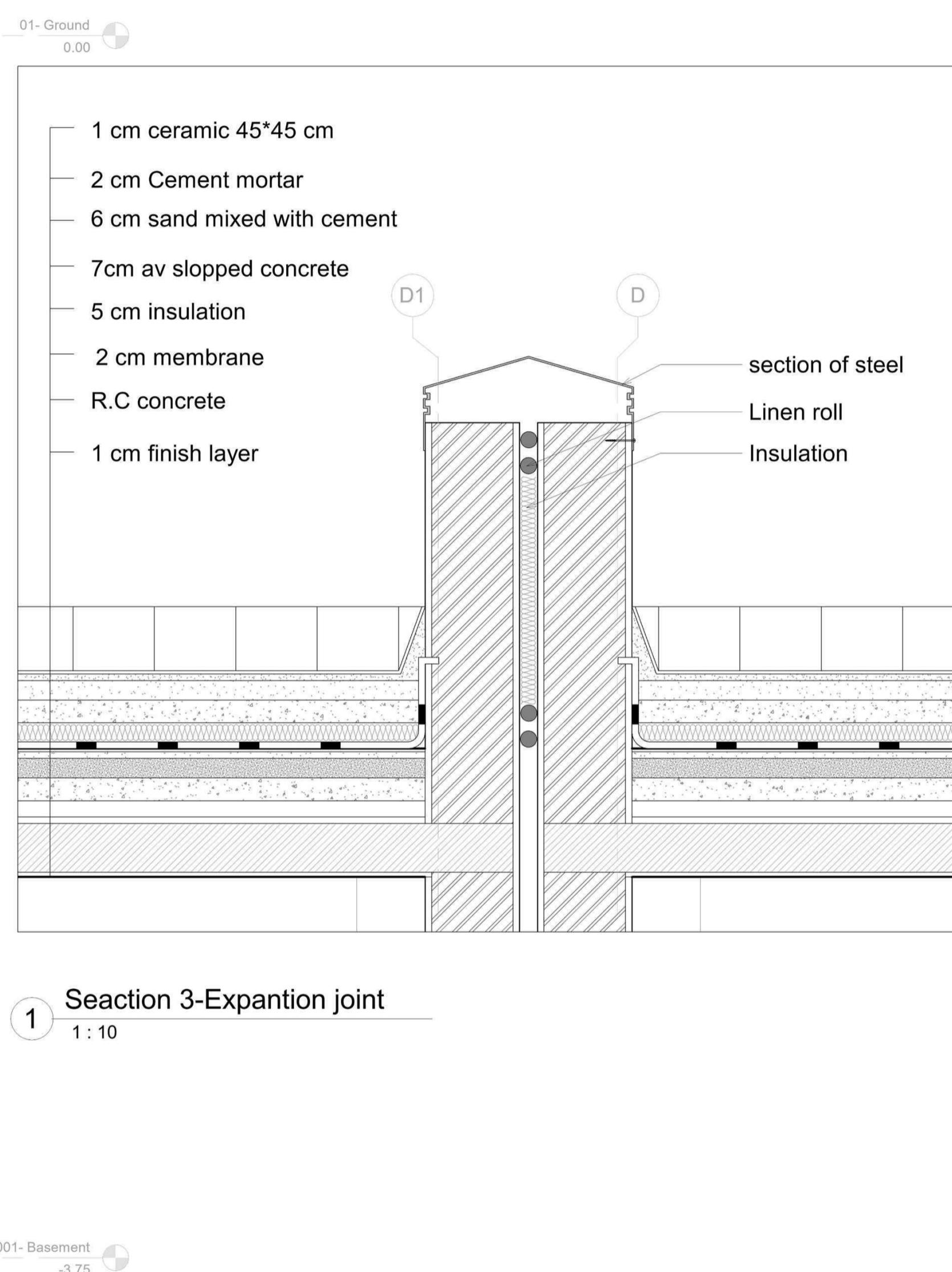
scale 1:10



3 Section 3  
1 : 100



4 Seaction 3-Expansion joint 1  
1 : 10



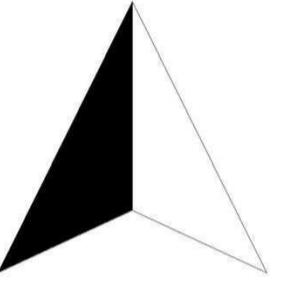
1 Seaction 3-Expansion joint  
1 : 10

001-Basement  
-3.75

01-Ground  
0.00



Department of Architecture



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|---------|--------|
| wall    | floor  |
| ceiling | wazara |

#### Important notes:

### **Key Note :**

project title :

R.C.M Mall

Drawn by :

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### Third Division

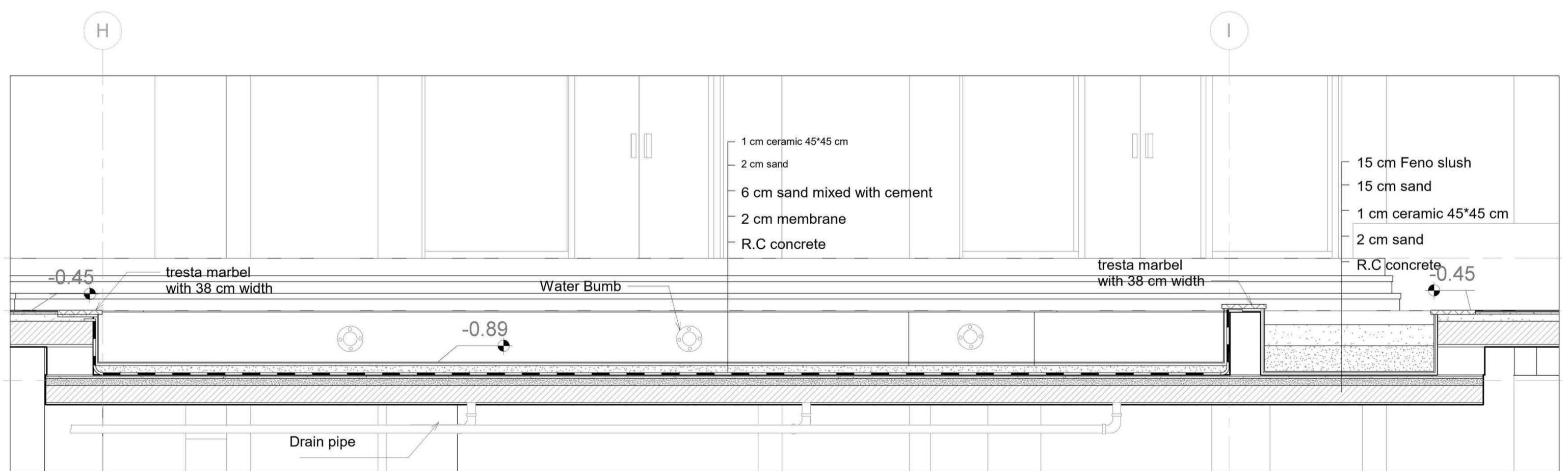
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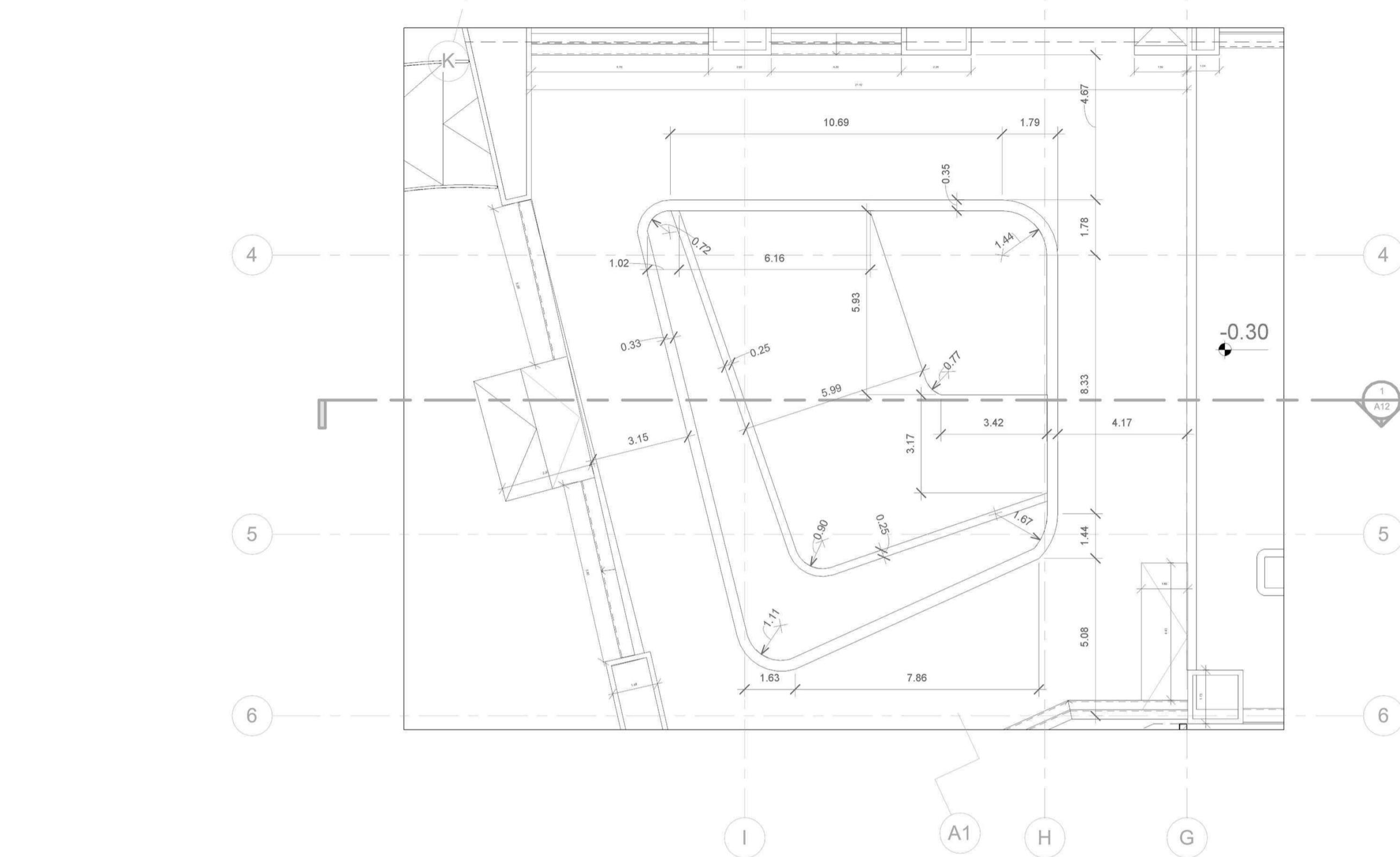
## scale

1:25



## 01- Ground-water future

1 : 10

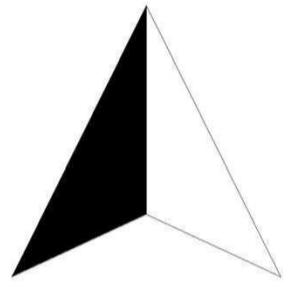


## 2 Section 1-Water fetur

1 : 25



Department of Architecture



N

|         |        |
|---------|--------|
| wall    | floor  |
| ceiling | wazara |

#### Important notes:

#### **Key Note :**

project title :

R.C.M Mall

Drawn by :

Abdelsatter Ibrahim

Third Division

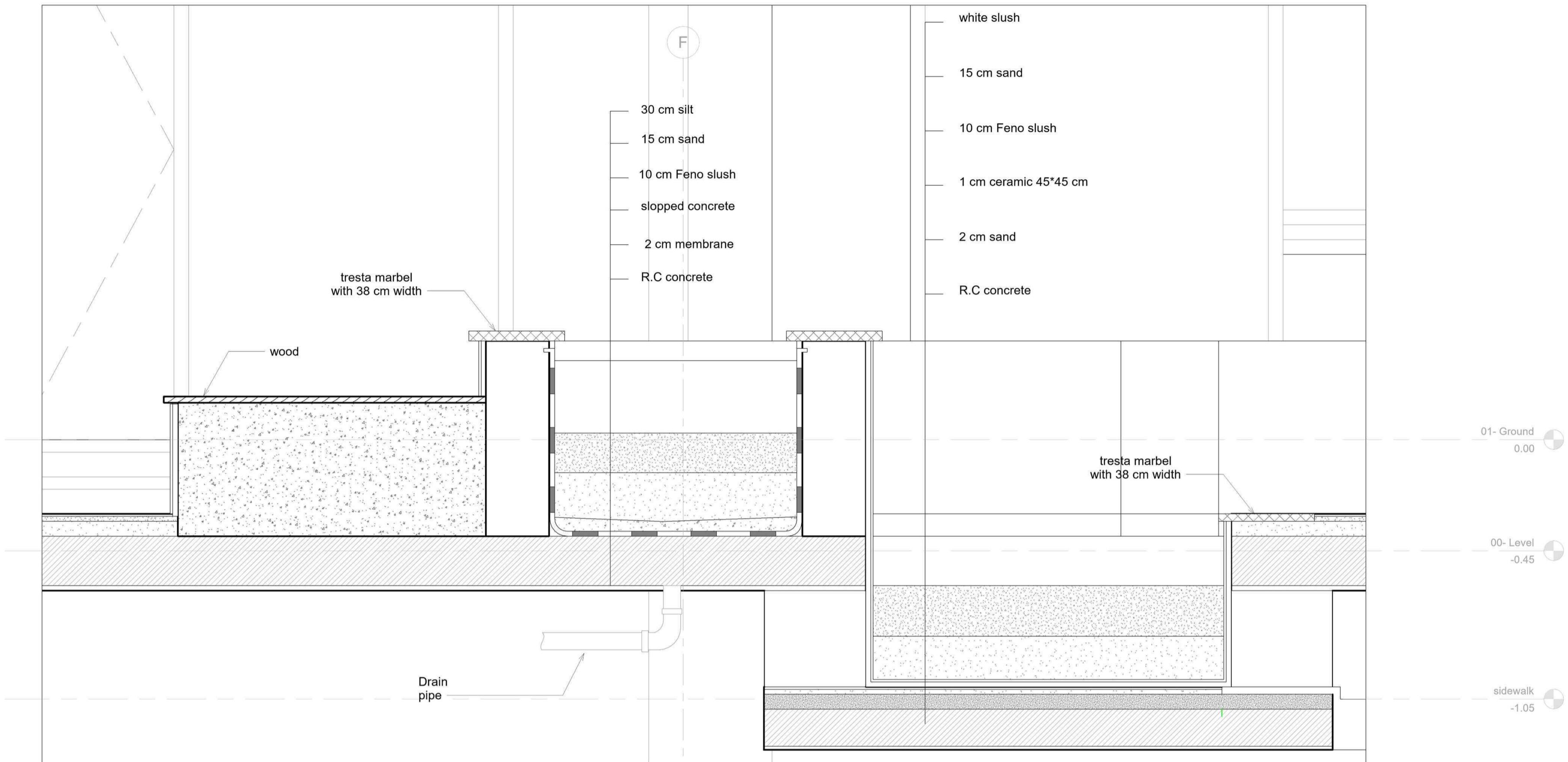
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A 20

Page Name :

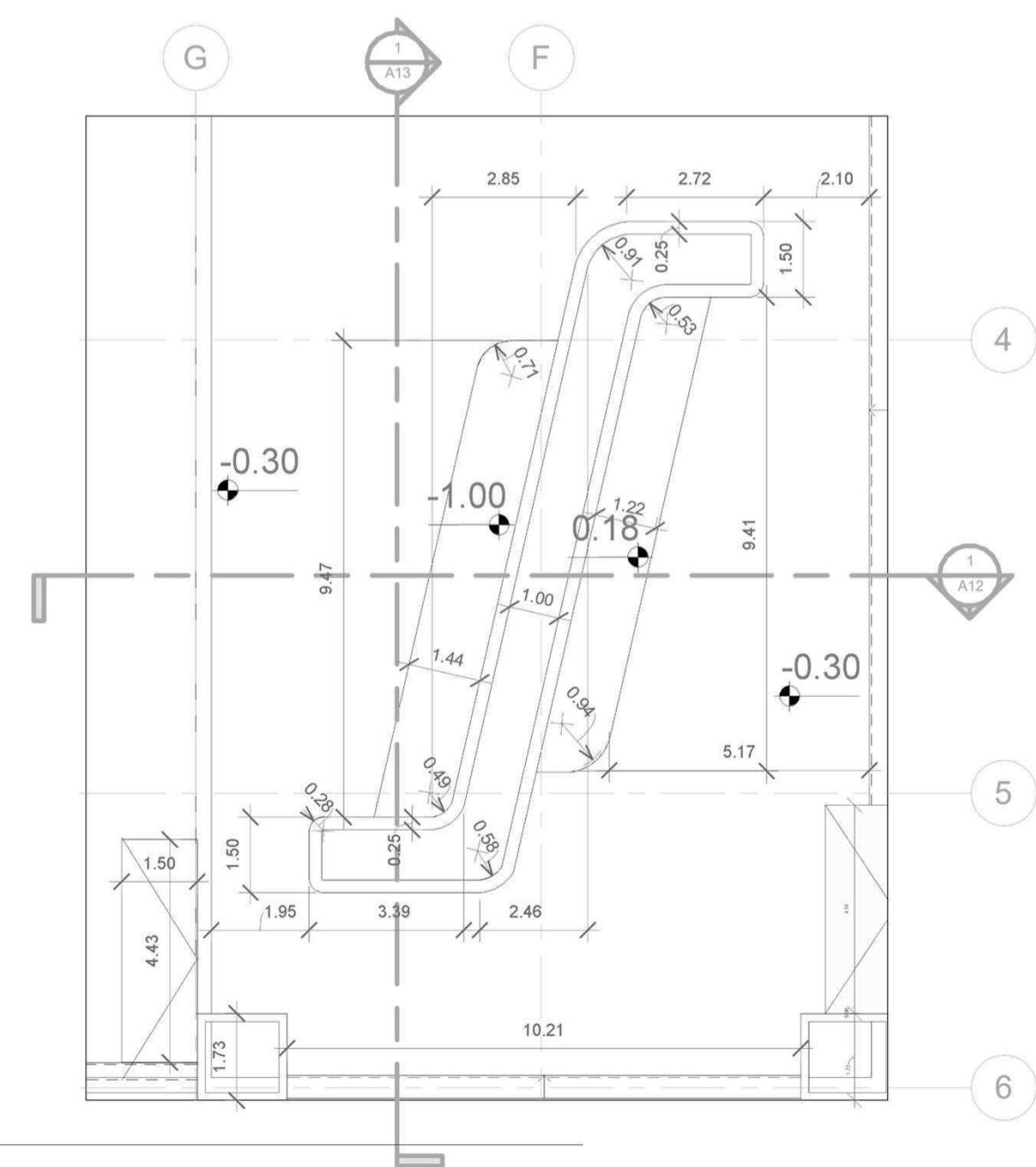
## flower box

scale 1:10

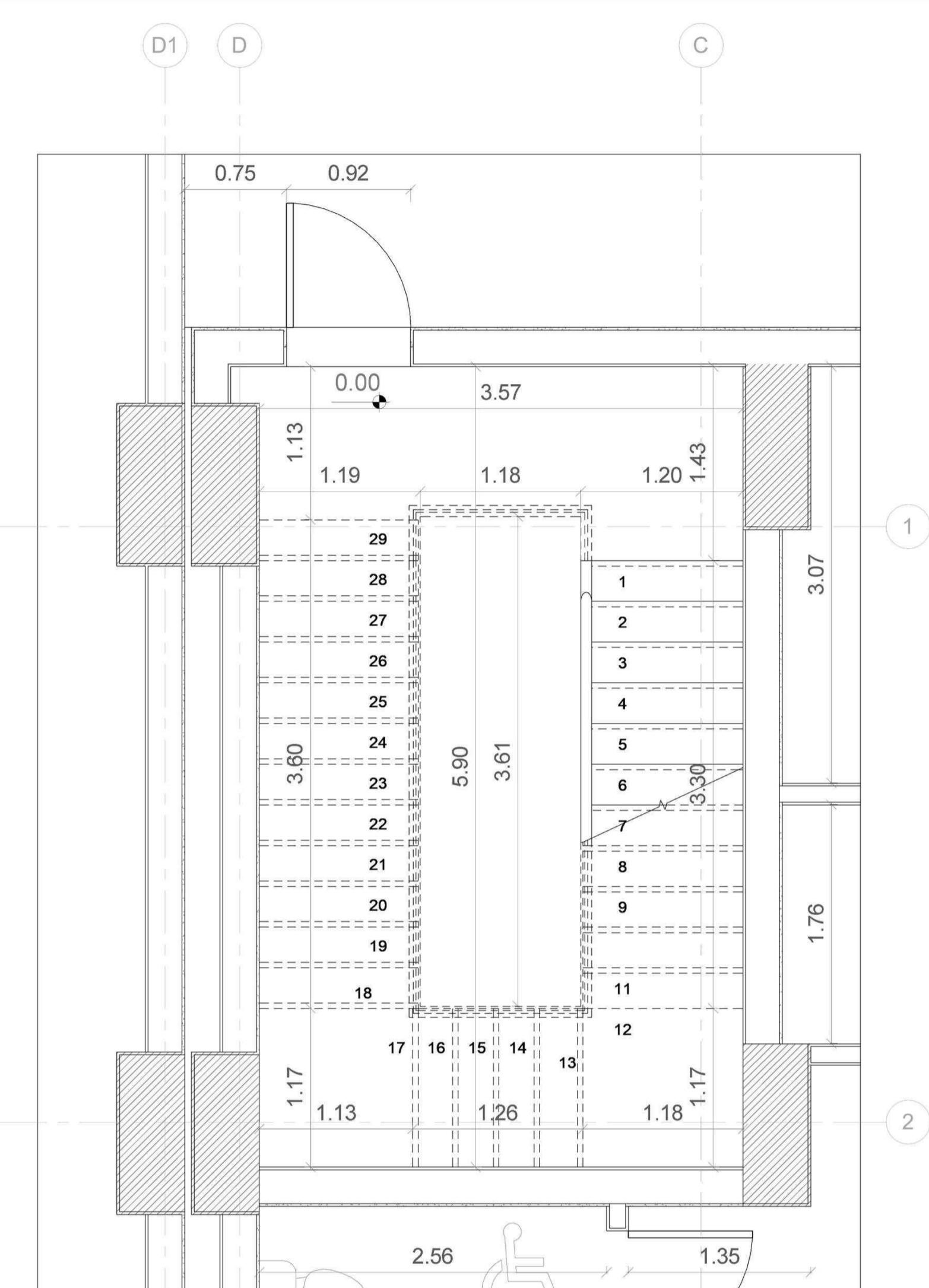
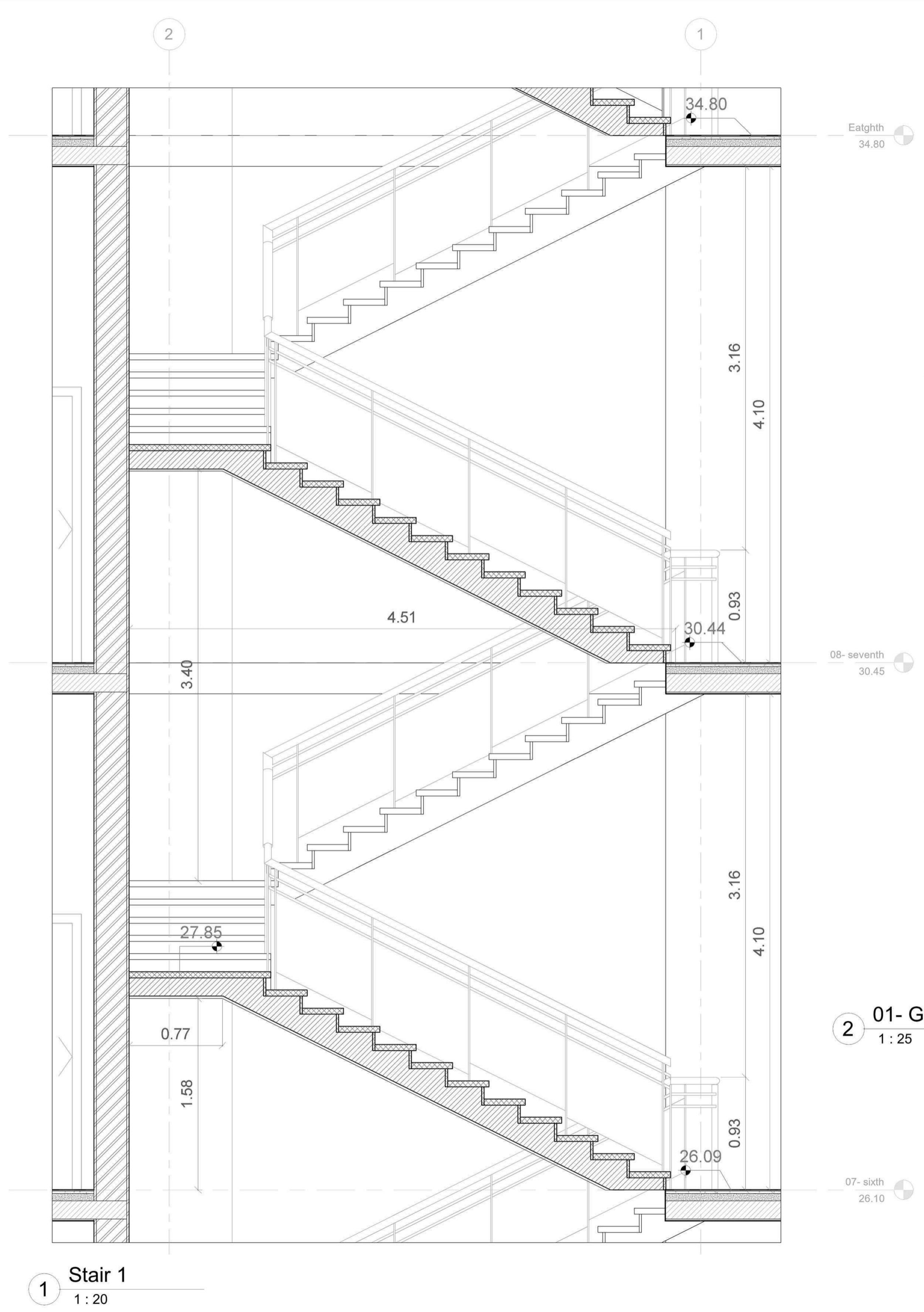


## 1 Section 1-Flower Box

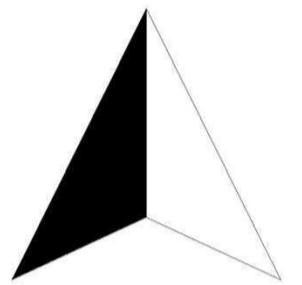
1 : 10



## 01- Ground-Flower Box



Department of Architecture



N

|         |        |
|---------|--------|
| wall    | floor  |
| ceiling | wazara |

#### Important notes:

#### **Key Note :**

project title :

R.C.M Mall

Drawn by:

Abdelsatter Ibrahim

Third Division

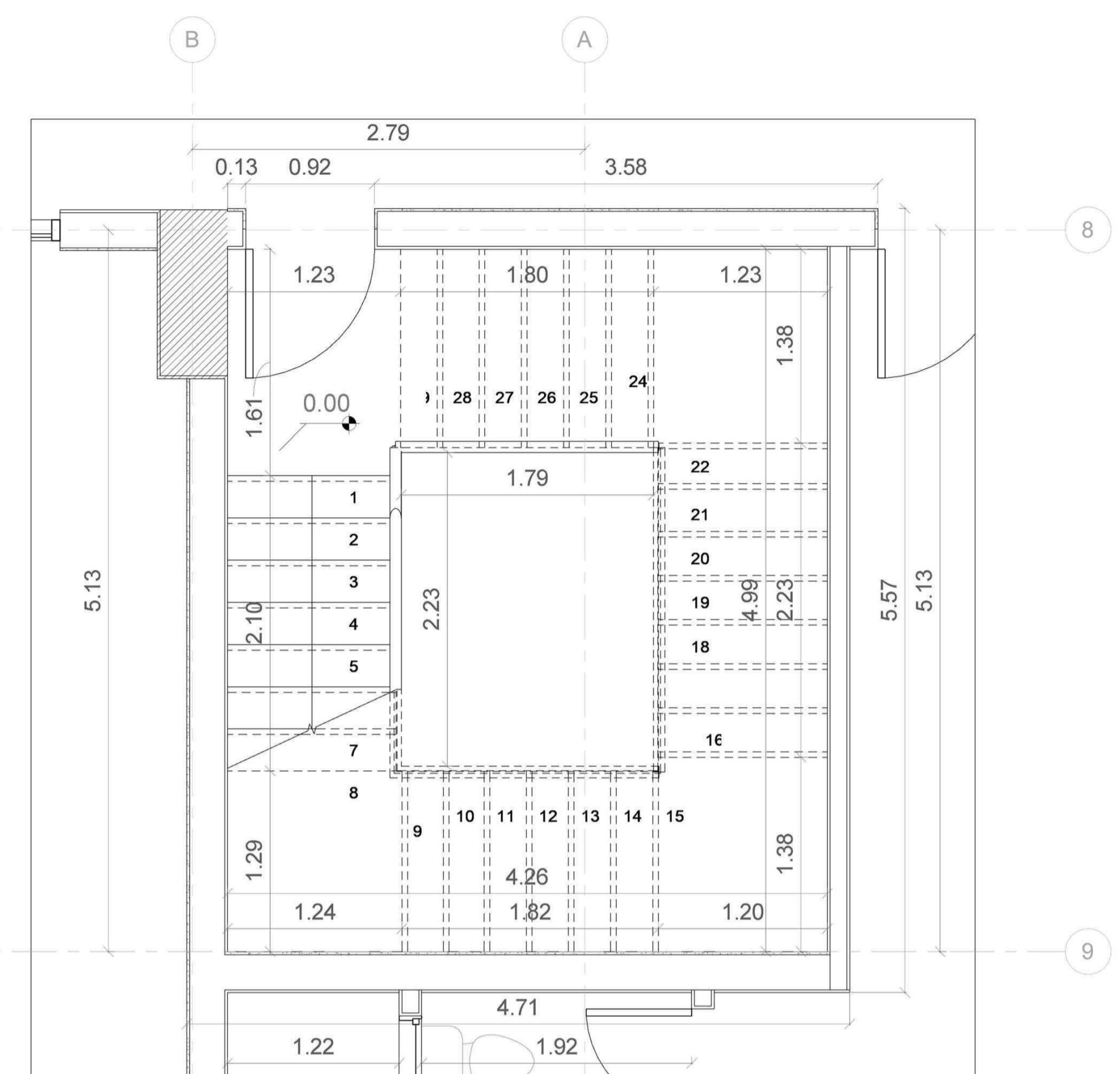
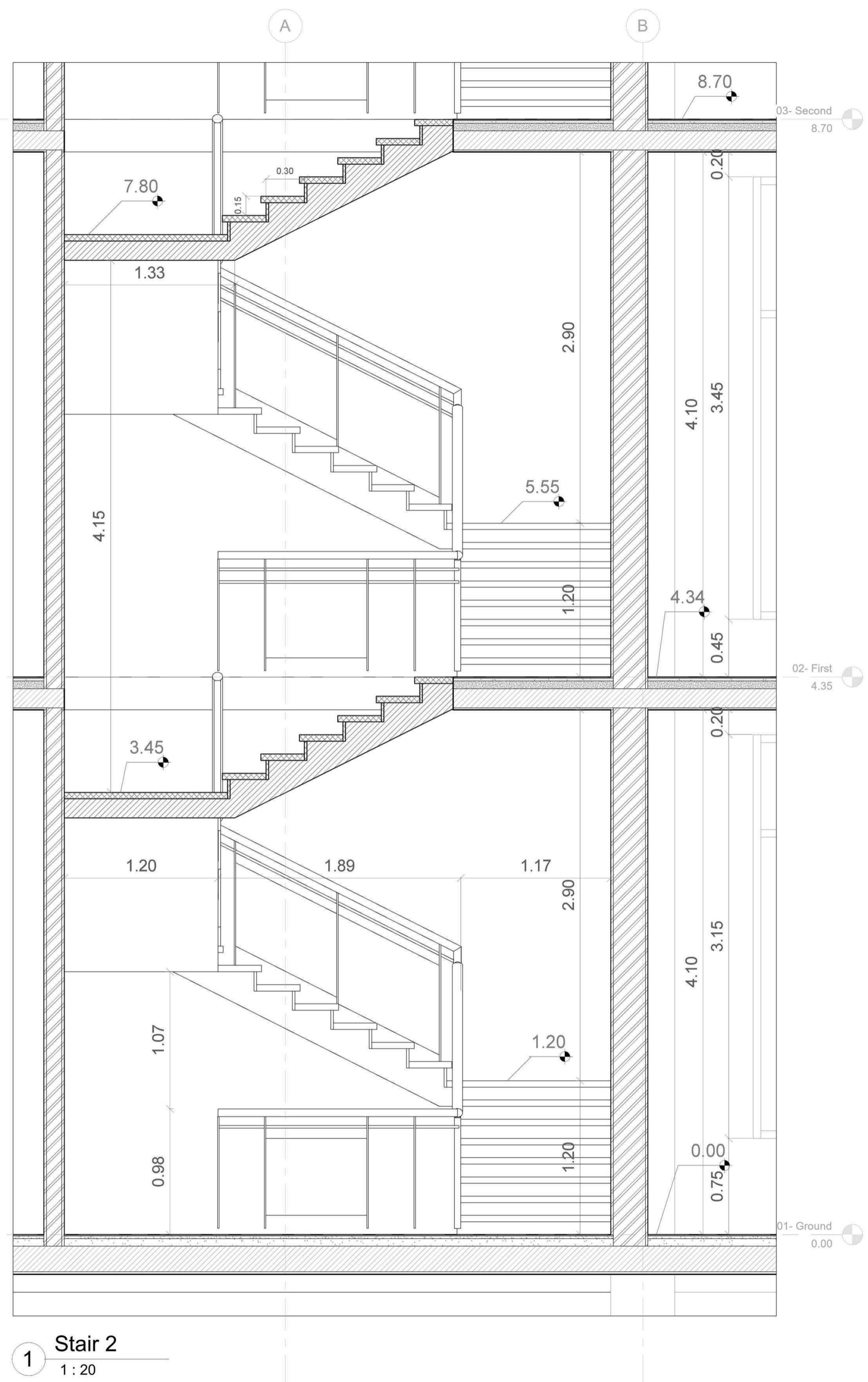
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A 21

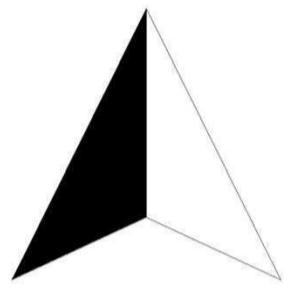
**Page Name :**

stair 1

1:20



Department of Architecture



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|         |        |
|---------|--------|
| wall    | floor  |
| ceiling | wazara |

#### **Important notes:**

### **Key Note :**

project title :

R.C.M Mall

Drawn by :

Abdelsatter Ibrahim

## Third Division

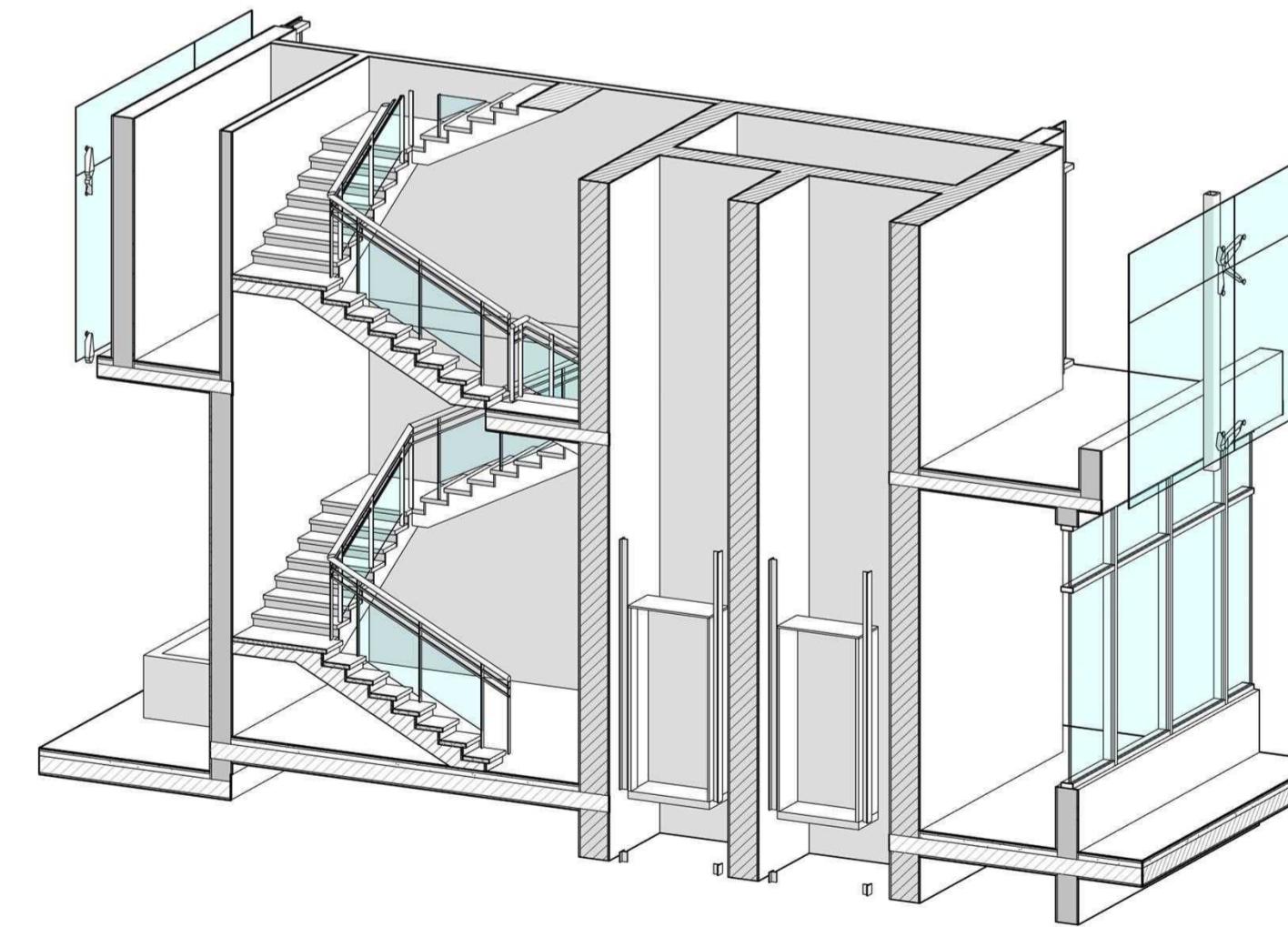
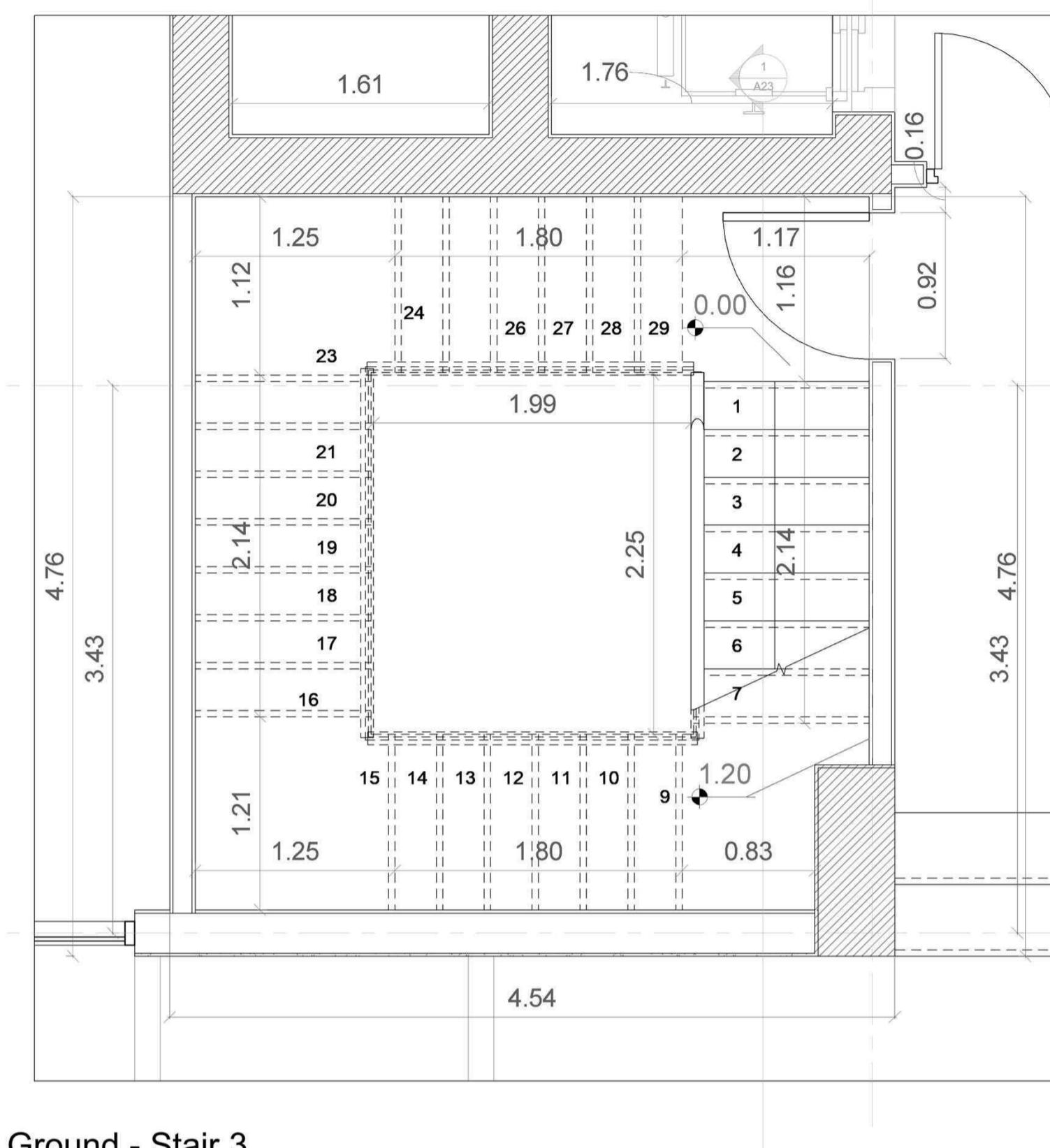
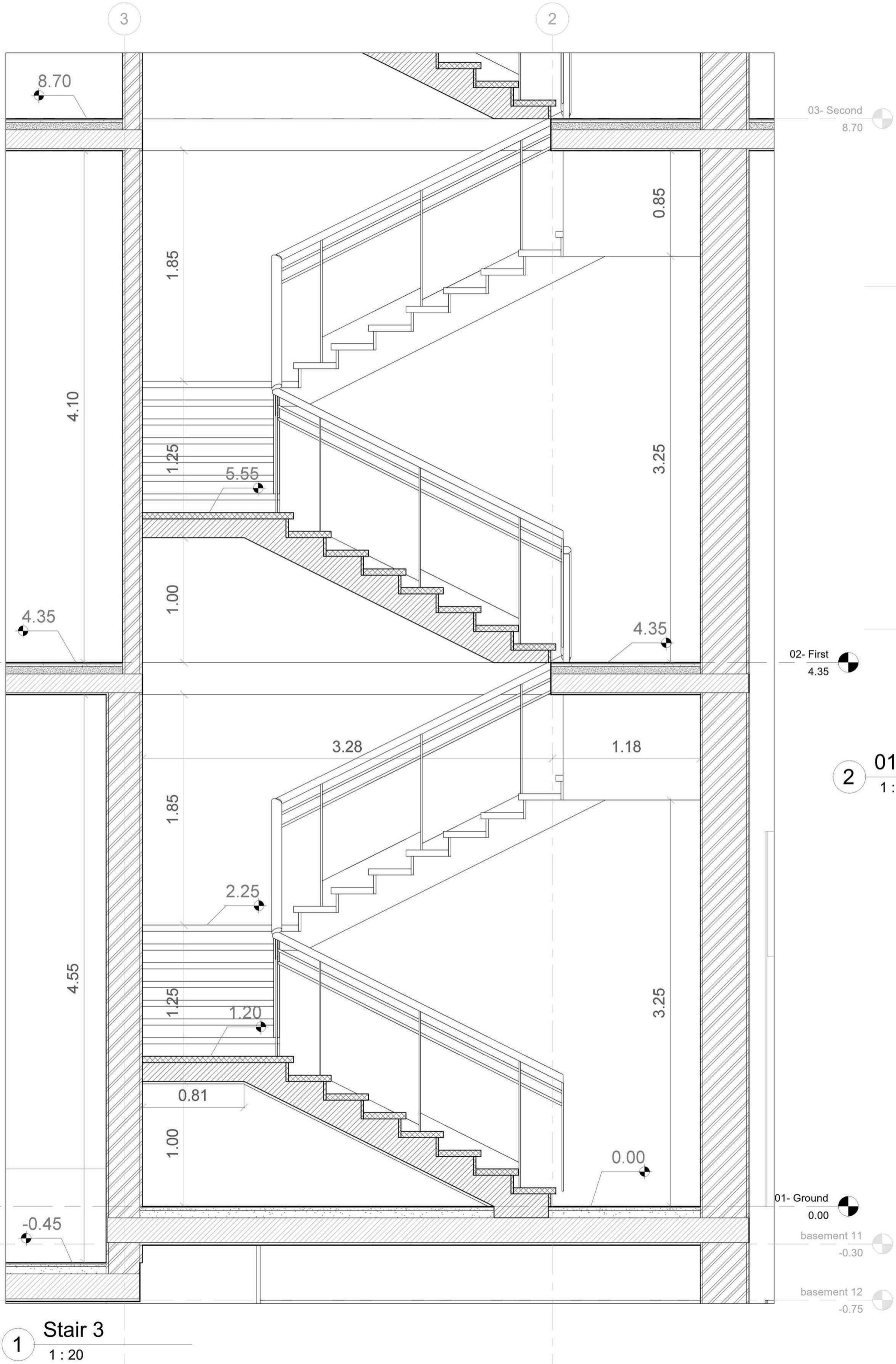
Page No :

A 22

Journal of Health Politics, Policy and Law, Vol. 32, No. 4, December 2007  
DOI 10.1215/03616878-32-4 © 2007 by The University of Chicago

stair 2

1:20

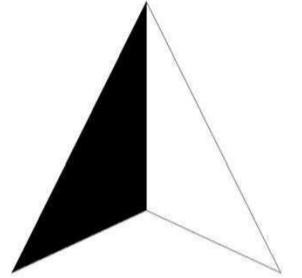


01- Ground - Stair 3

1 : 25



Department of Architecture



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|         |        |
|---------|--------|
| wall    | floor  |
| ceiling | wazara |

### Important notes:

### **Key Note :**

project title :

R.C.M Mall

Drawn by :

Abdelsatter Ibrahim

Third Division

Page No :

A 23

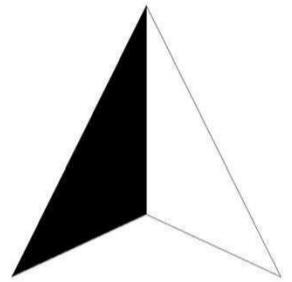
Page Name :

stair 3

scale 1:20



Department of Architecture



N

|         |        |
|---------|--------|
| wall    | floor  |
| ceiling | wazara |

#### **Important notes:**

#### **Key Note :**

project title :

R.C.M Mall

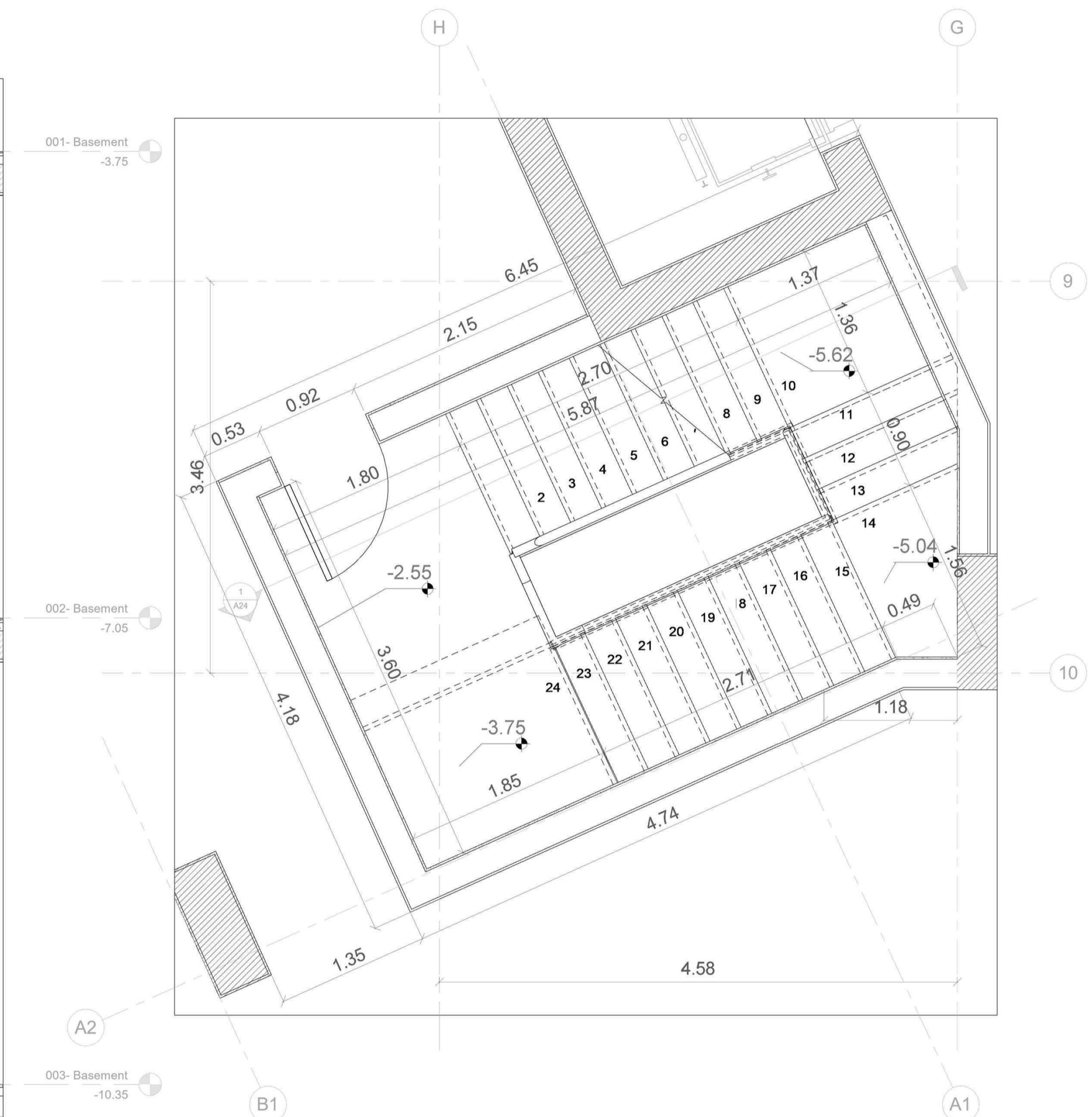
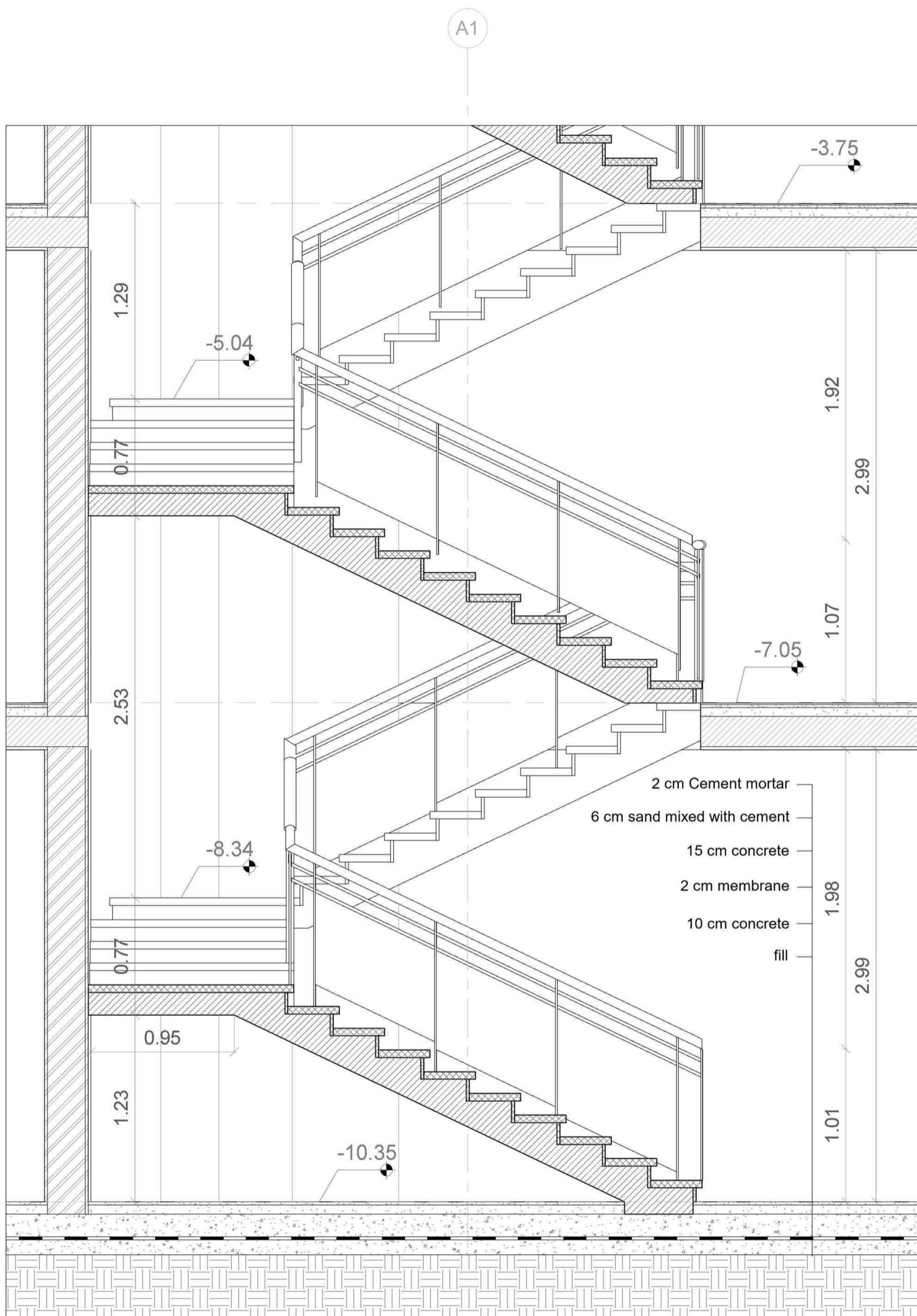
Drawn by :

## 01- Basement - Stair 4

2 DOWN  
1 : 25

## 1 Stair 4 DOWN

1 : 20



001- Basement - Stair 4

2 DOWN  
1 : 25

Page No.:

10 of 10

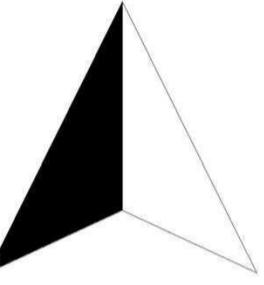
Page Name

scale

1:20



Department of Architecture



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|         |        |
|---------|--------|
| wall    | floor  |
| ceiling | wazara |

Important notes:

Key Note :

project title :

R.C.M Mall

Drawn by :

Abdelsatter Ibrahim

Third Division

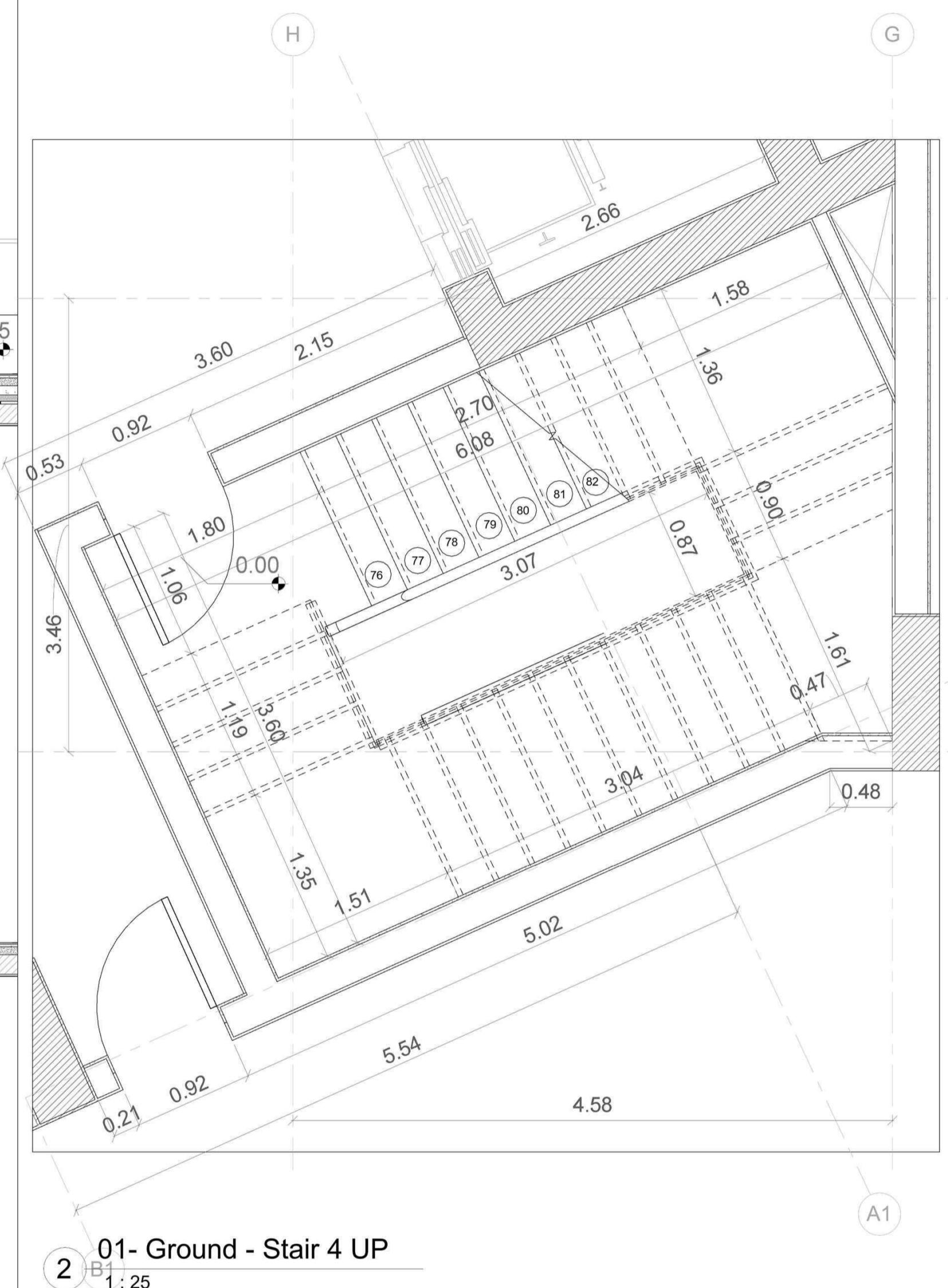
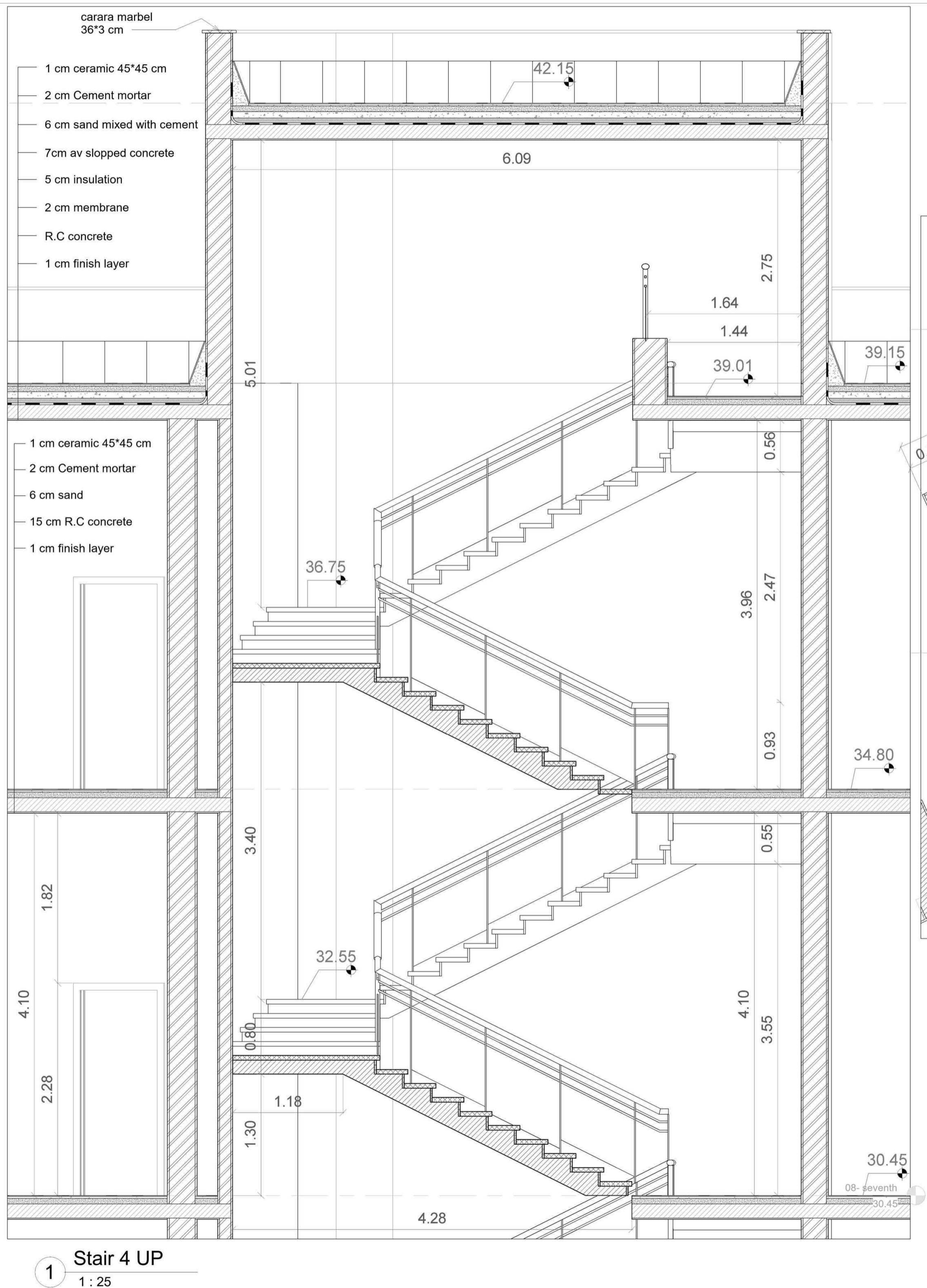
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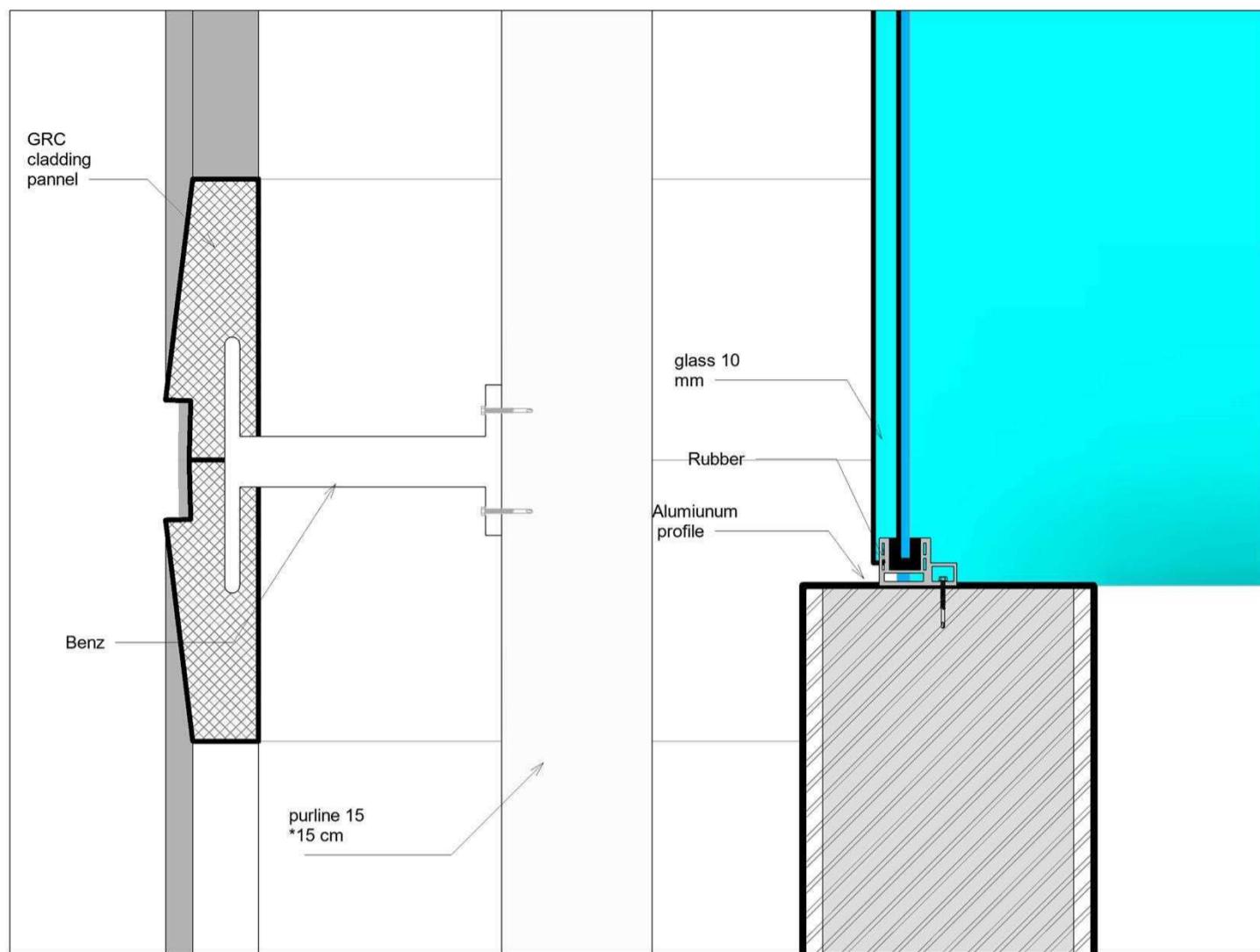
A 25

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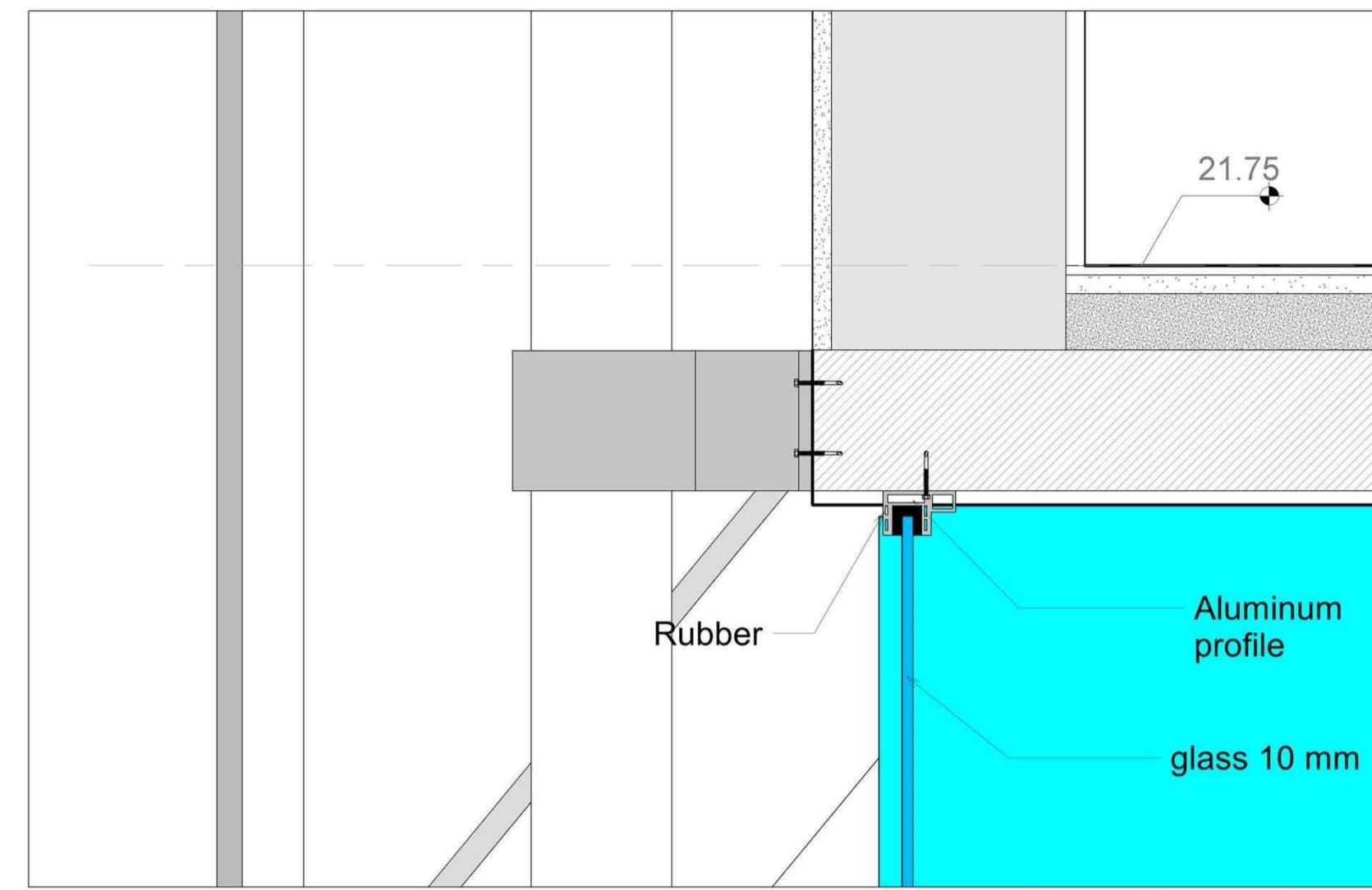
stair 4

scale 1:20

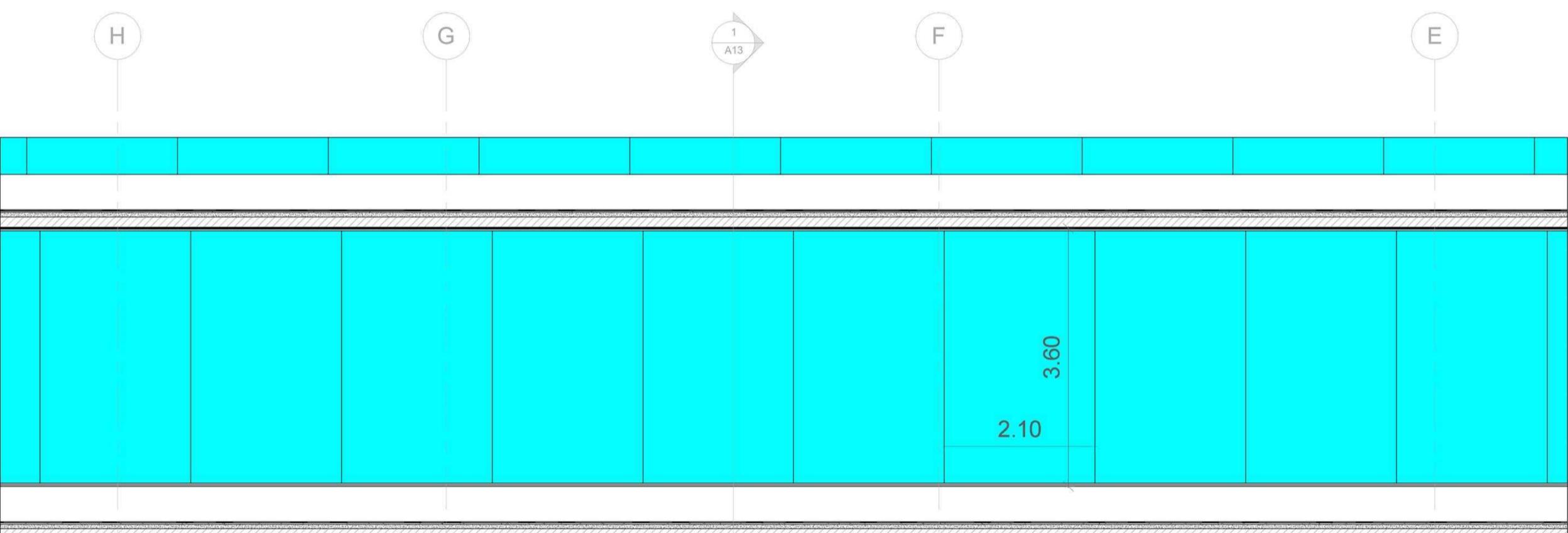




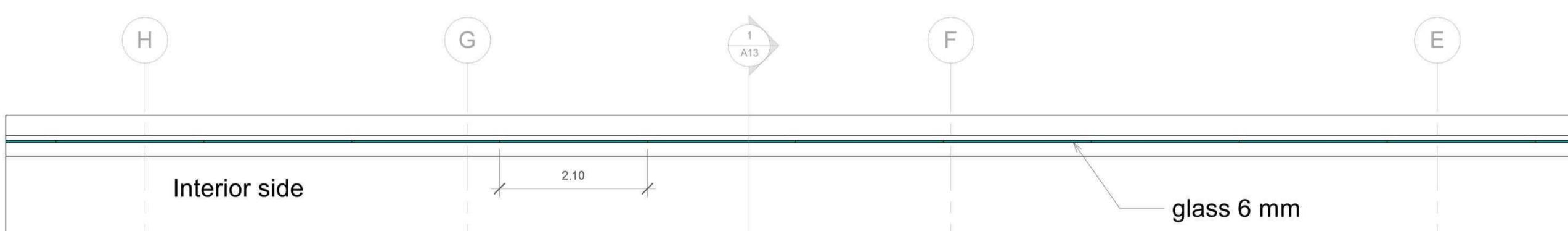
1 Section 2 - sucurite glass  
1 : 5



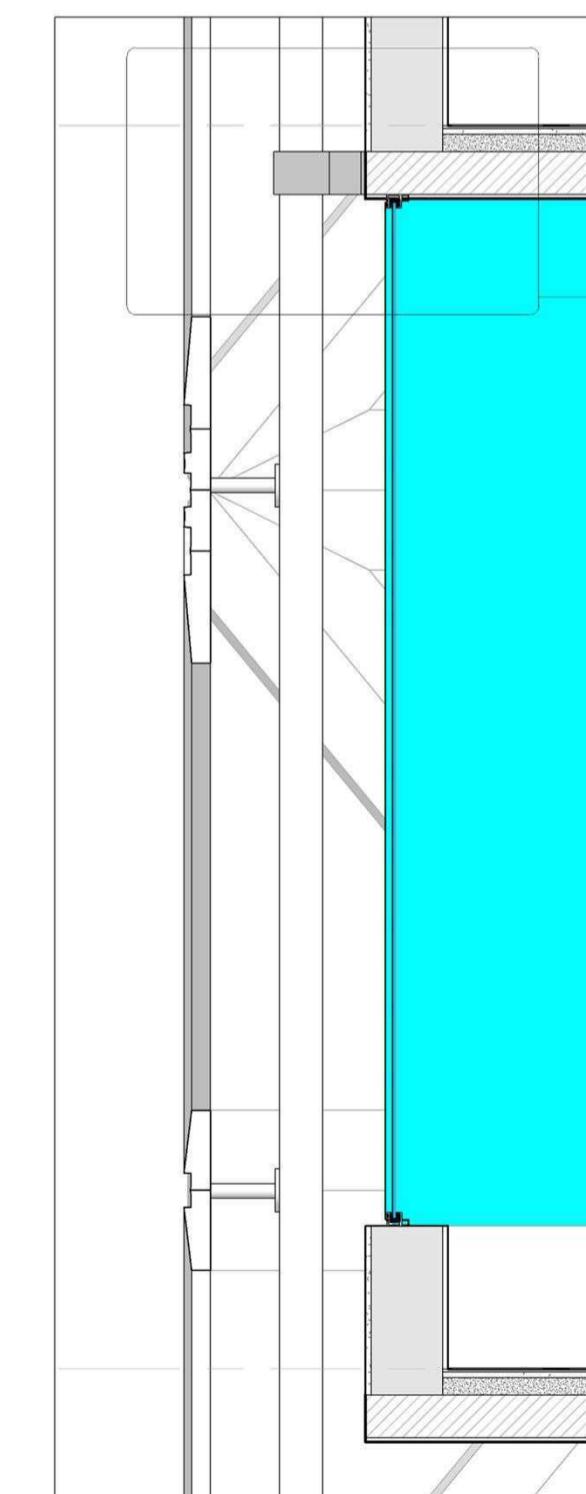
4 Section 2 - Sucurite glass 2  
1 : 5



2 securit glass Detail  
1 : 50



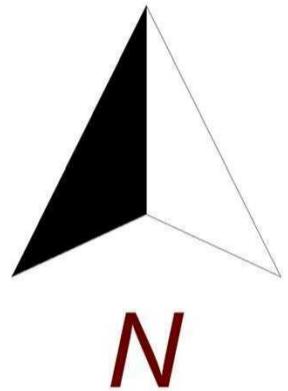
5 06- Fifth - Sucurite glass 3  
1 : 50



3 Section 2 - Sucurite glass 1  
1 : 20



Department of Architecture



|         |        |
|---------|--------|
| wall    | floor  |
| ceiling | wazara |

Important notes:

Key Note :

project title :

R.C.M Mall

Drawn by :

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Third Division

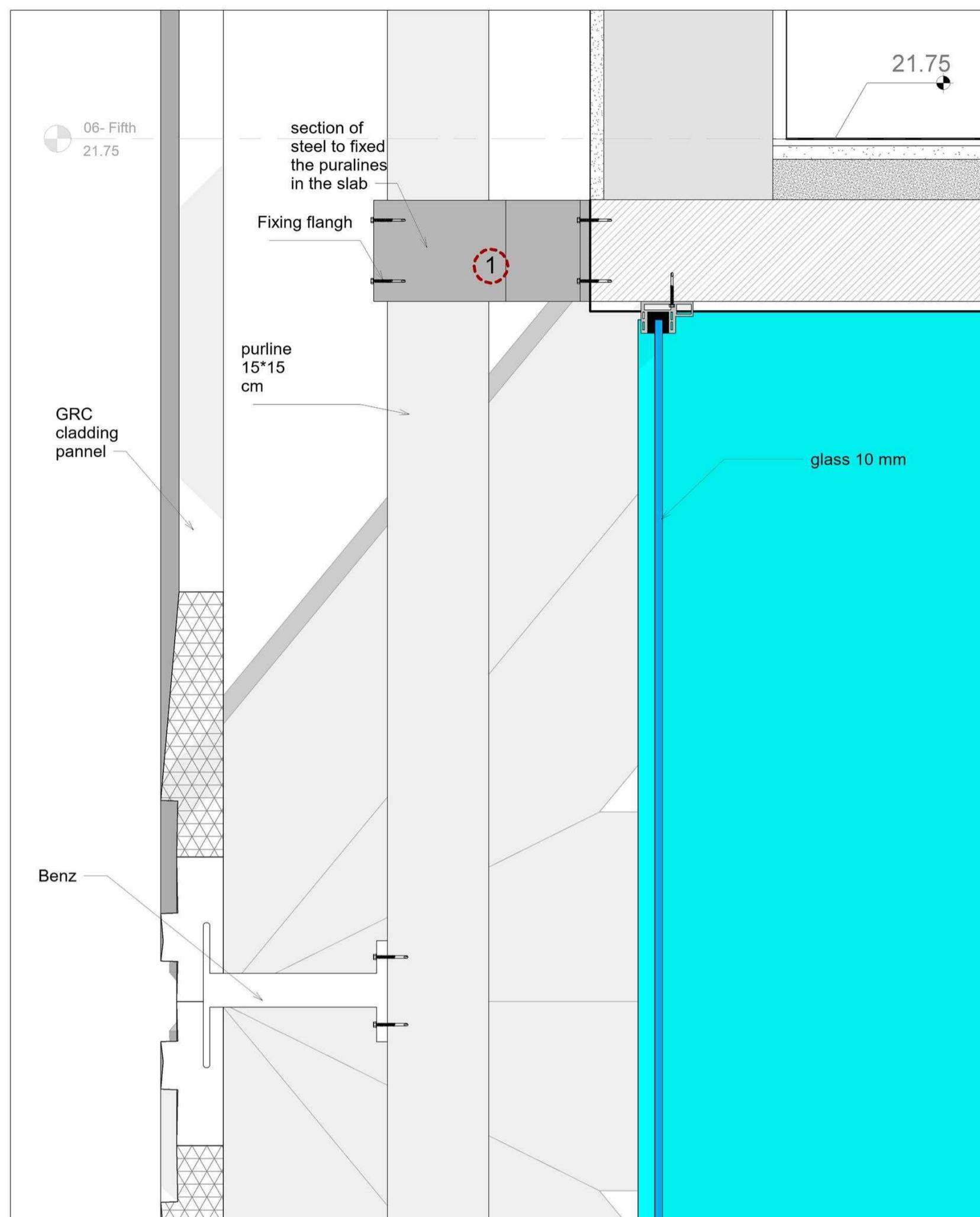
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A 26

Page Name :

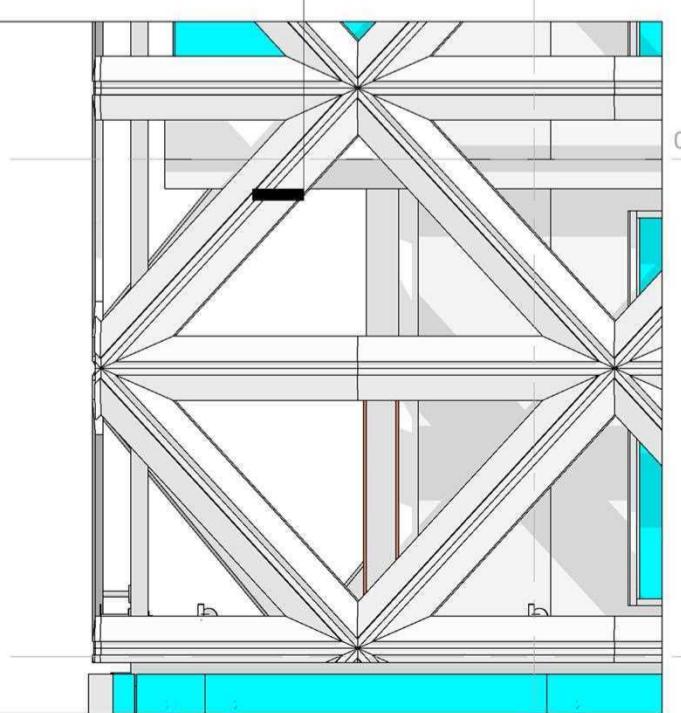
securit glass

scale 1: 5

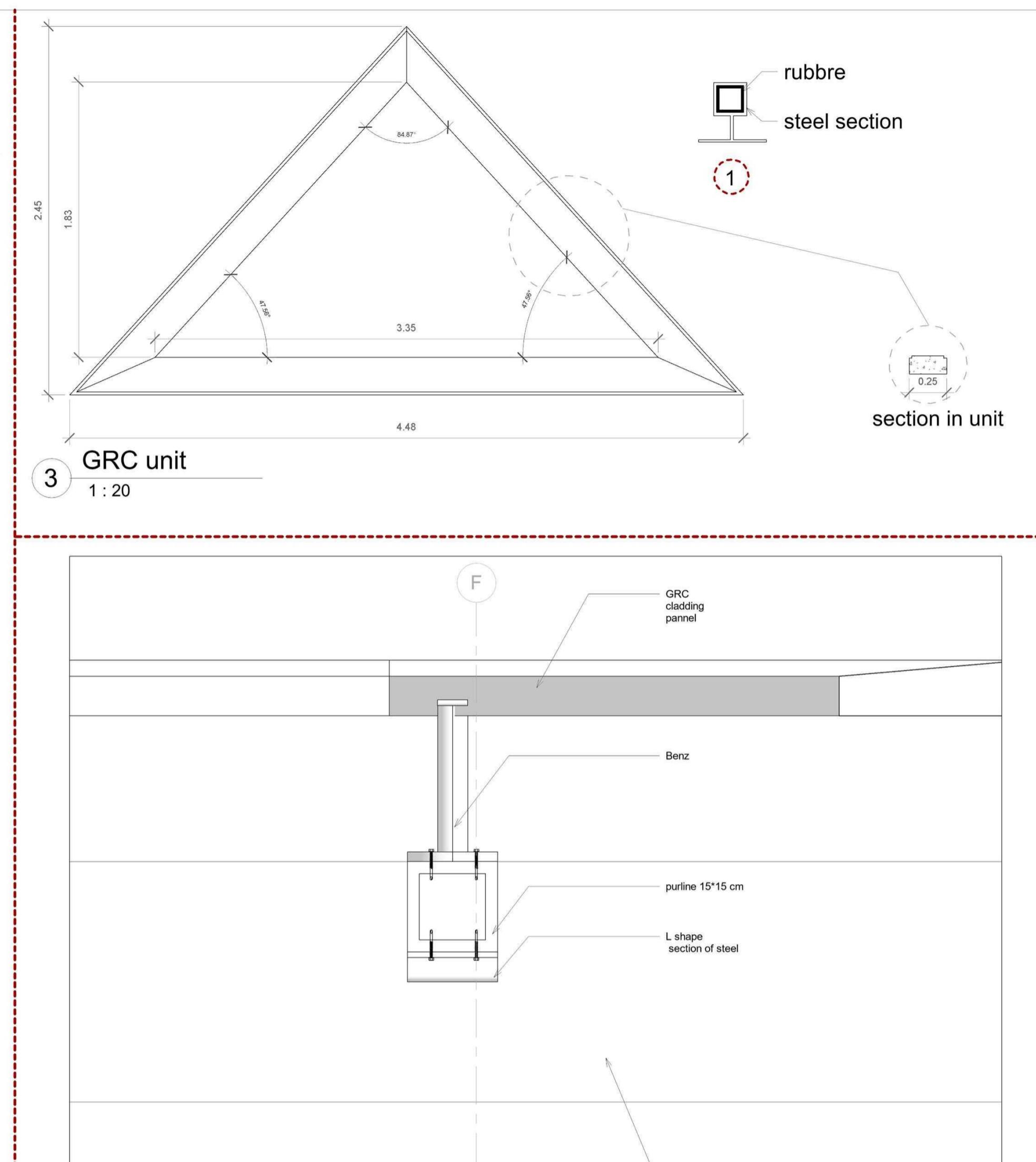


## Section 2 - GRC Deatail

1 : 5

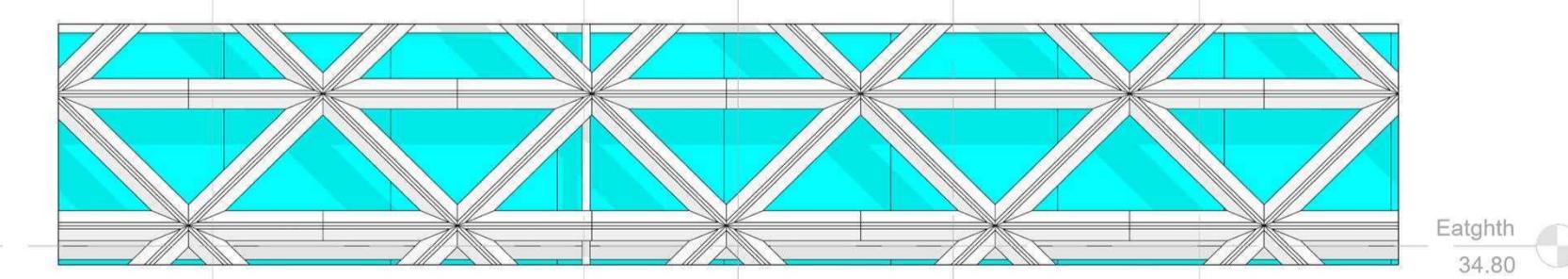


1 West - GRC Deatail  
1:50

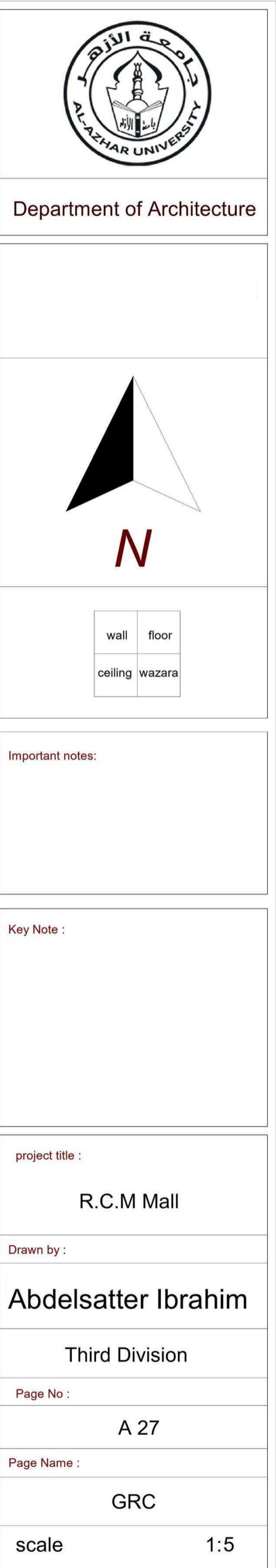


04- Third - GRC Deatail

2 1 : 5

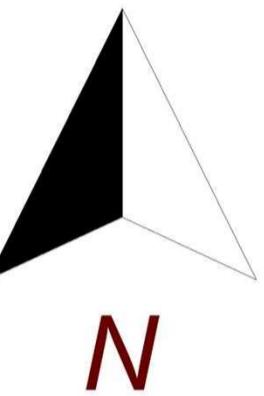


4 North - GRC Facade  
1 : 100





Department of Architecture



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|         |        |
|---------|--------|
| wall    | floor  |
| ceiling | wazara |

Important notes:

Key Note :

project title :

R.C.M Mall

Drawn by :

Abdelsatter Ibrahim

Third Division

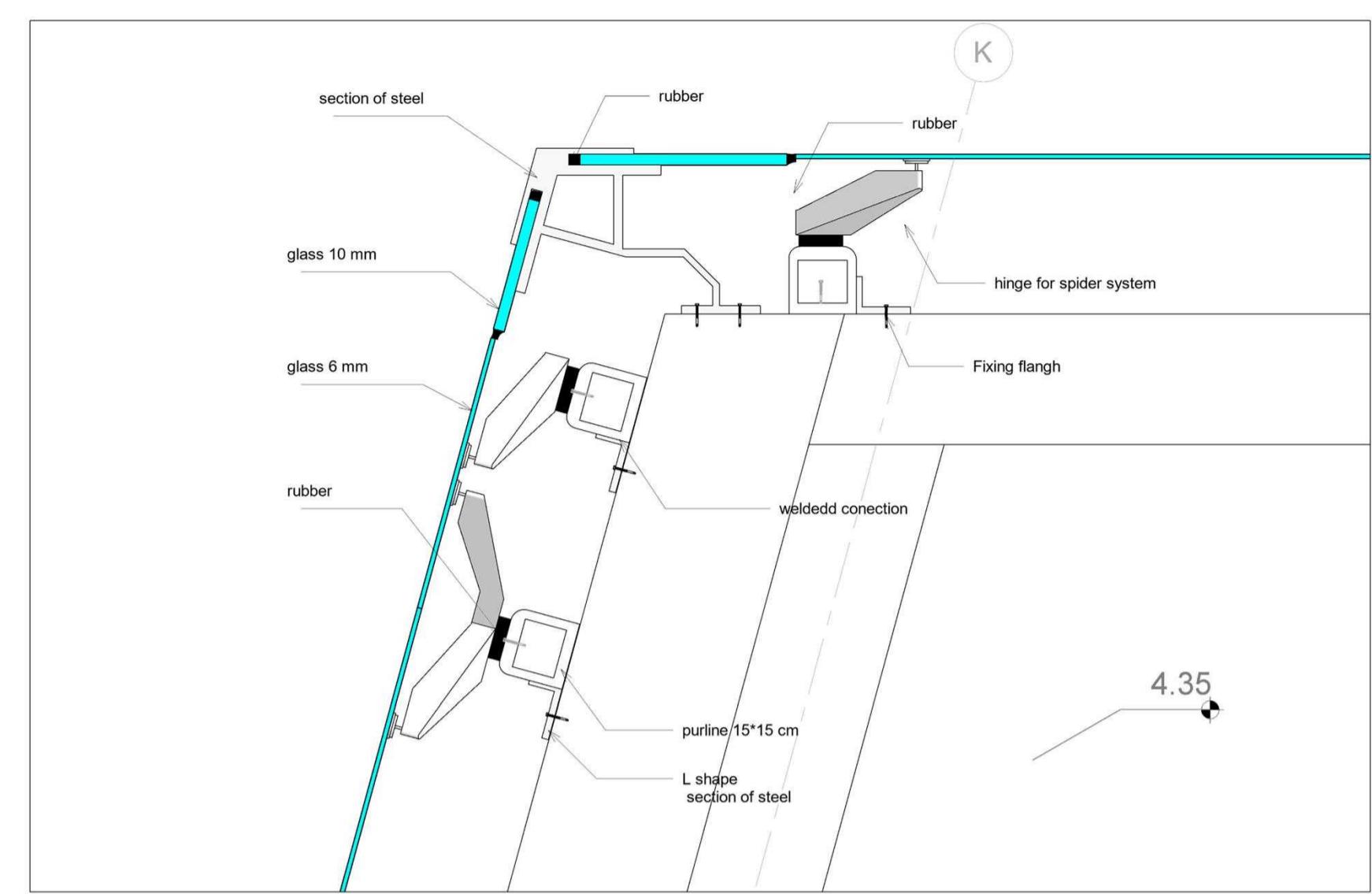
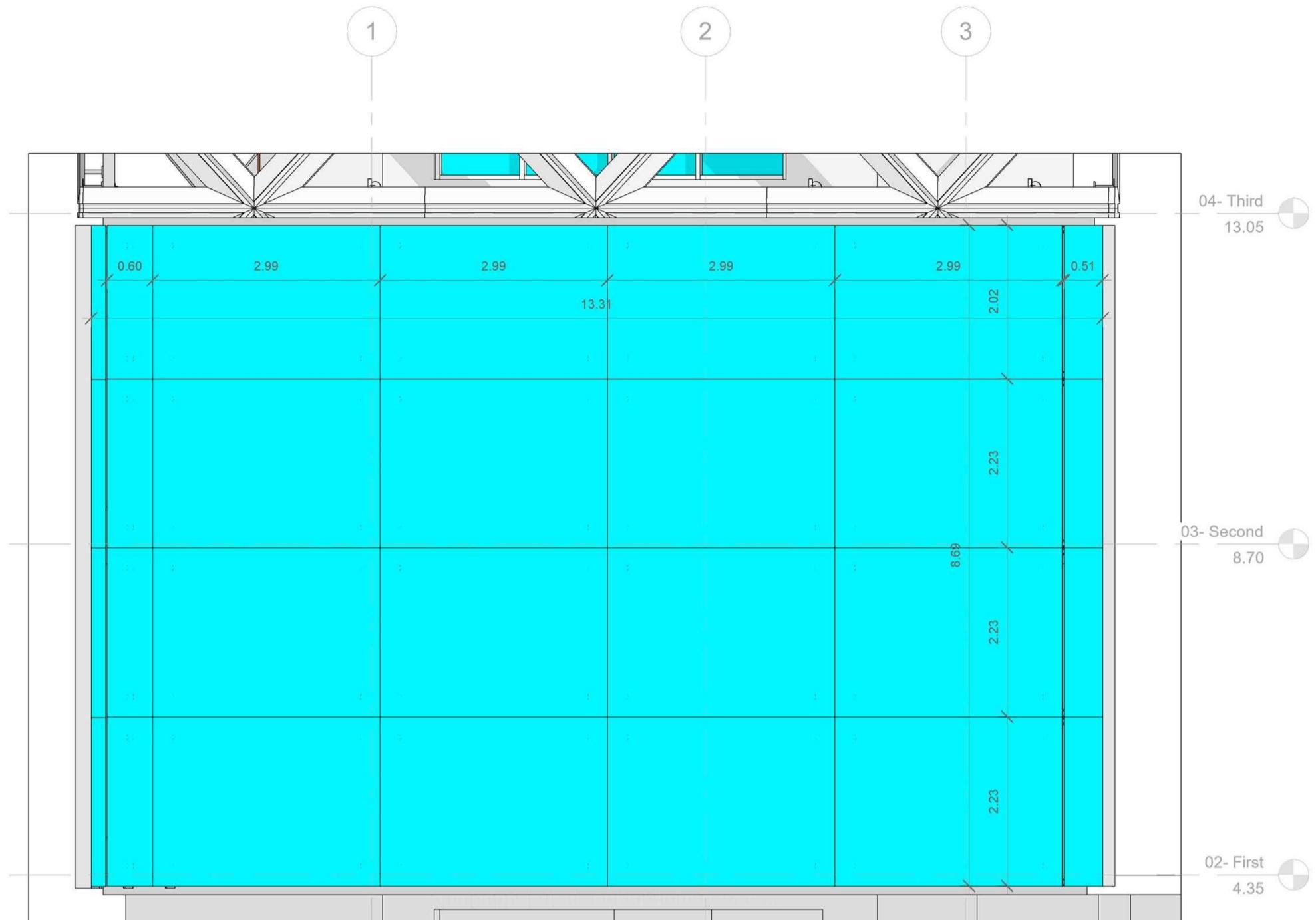
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A 28

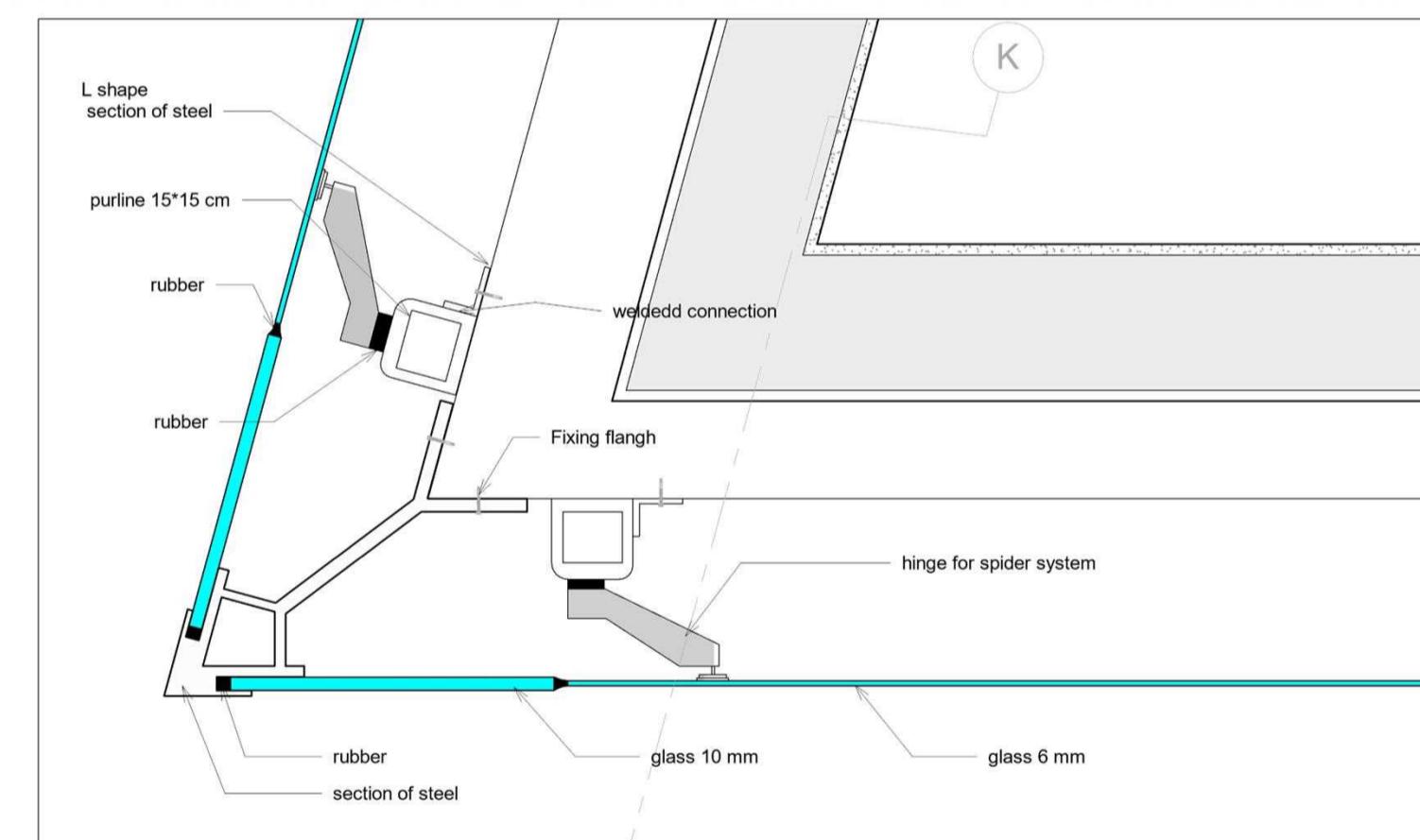
Page Name :

Spider system

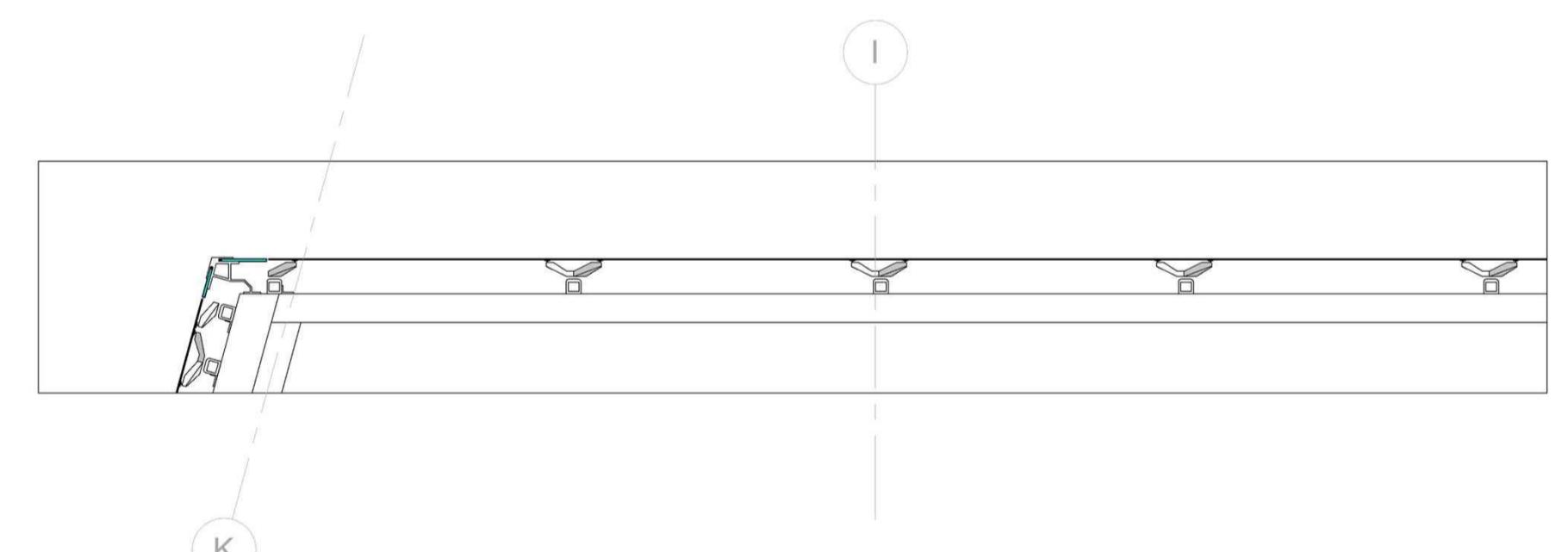
scale 1:10



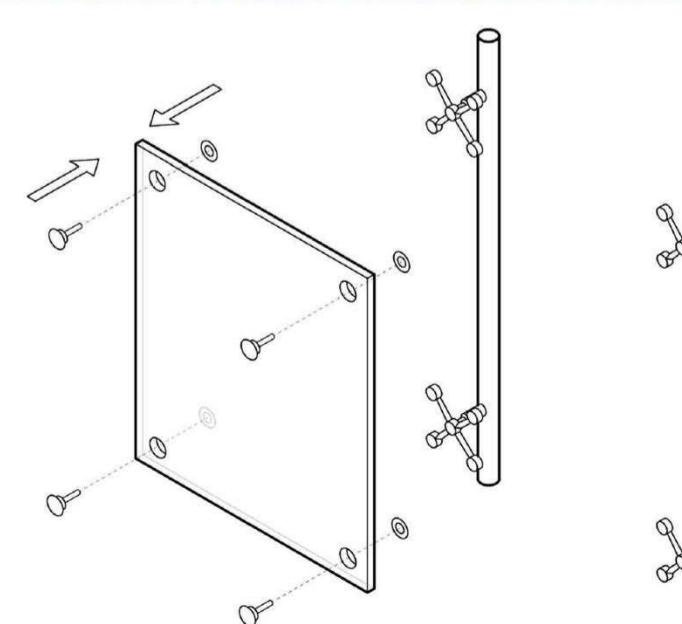
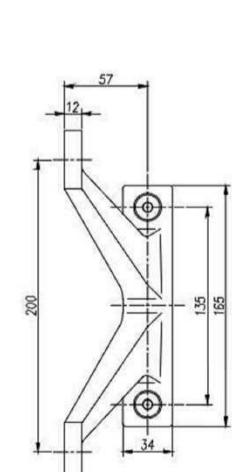
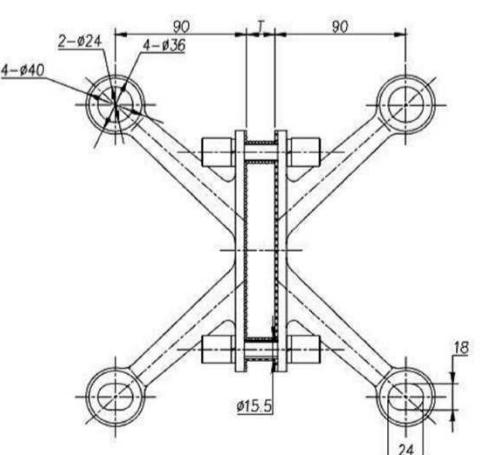
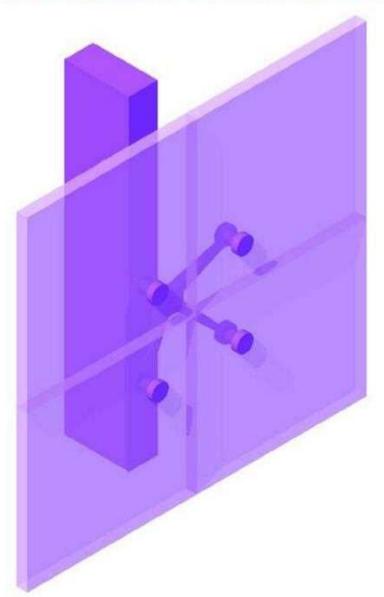
02- First spider Detail  
1 : 10



02- First - spider system 6  
1 : 10

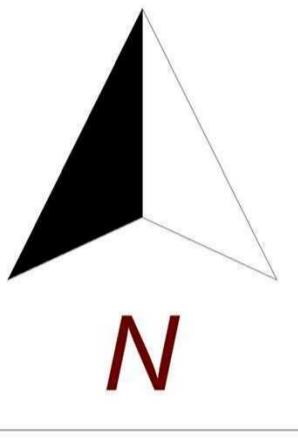


02- First - spider system  
1 : 50





Department of Architecture



N

|         |        |
|---------|--------|
| wall    | floor  |
| ceiling | wazara |

Important notes:

Key Note :

project title :

R.C.M Mall

Drawn by :

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Third Division

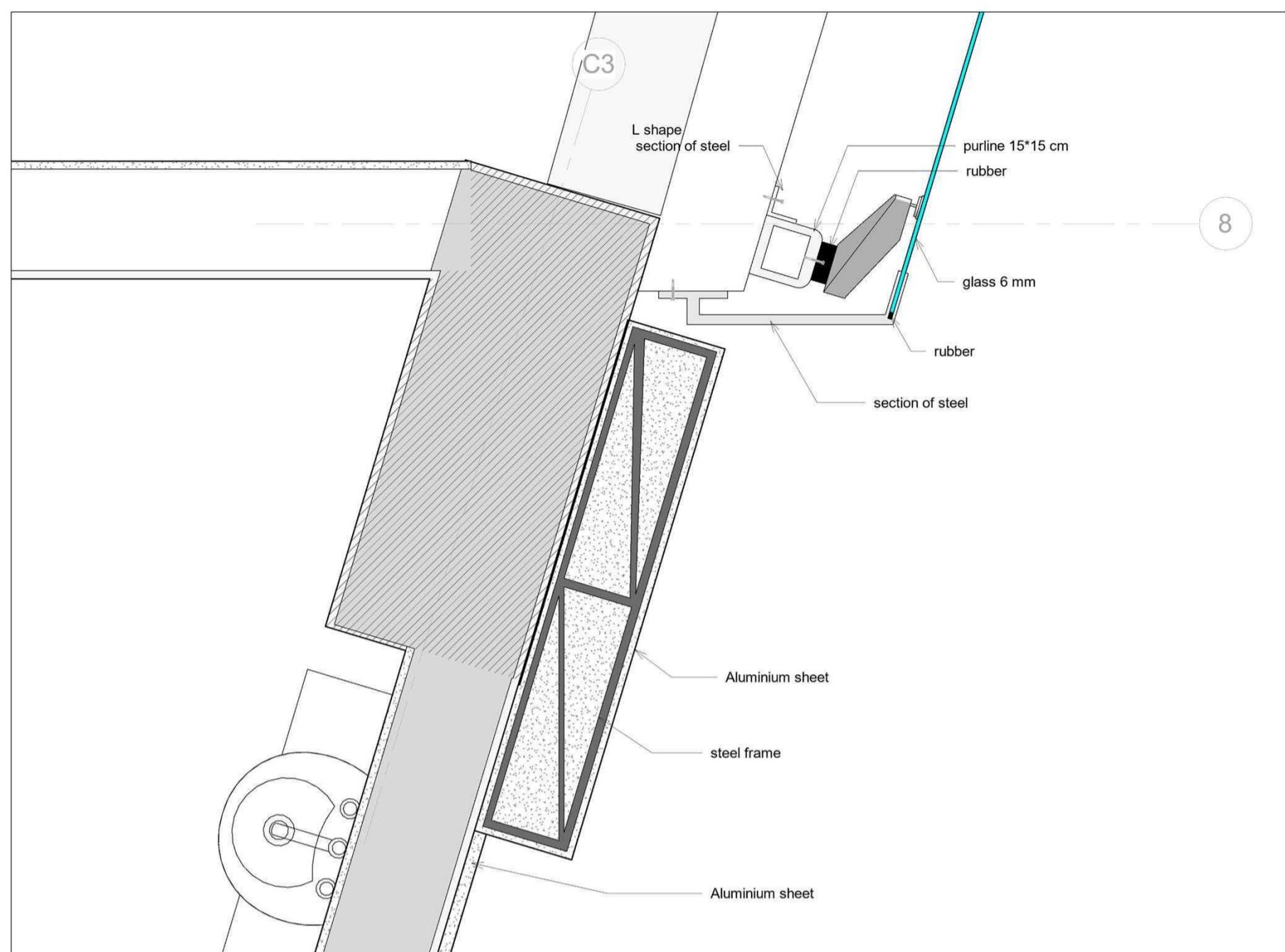
Page No :

A 29

Page Name :

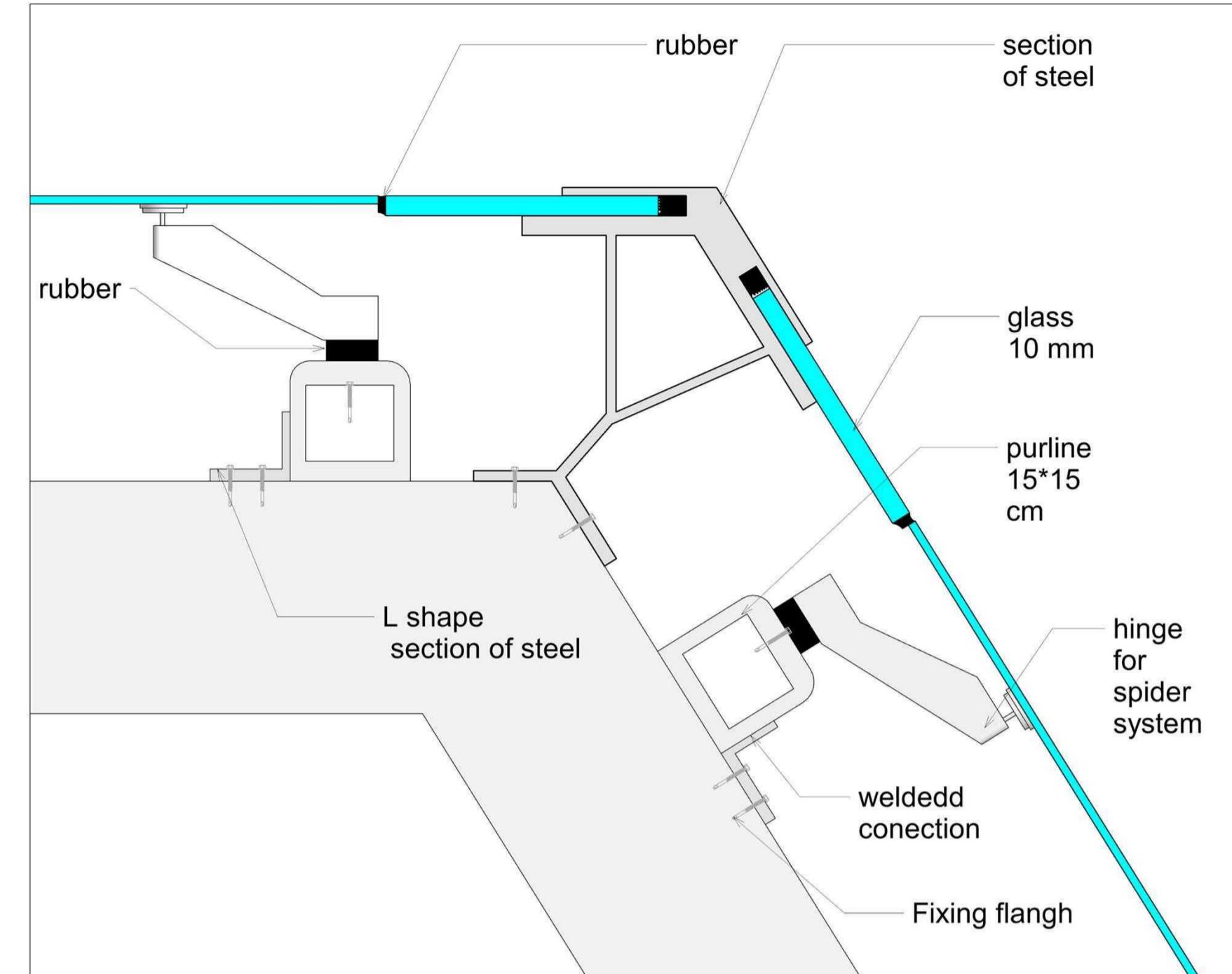
Spider system

scale 1: 5



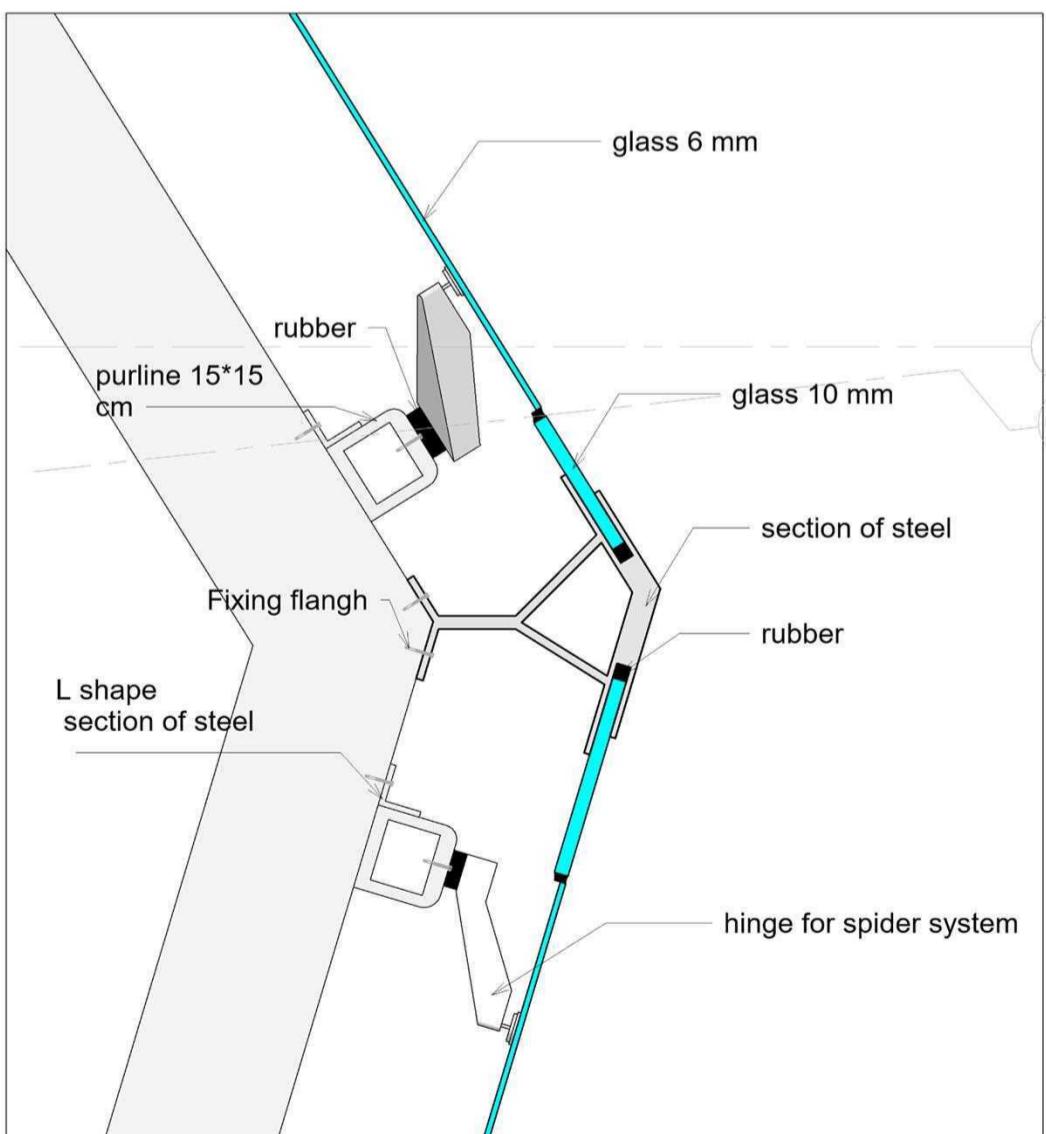
02- First - spider system 5

1 : 10



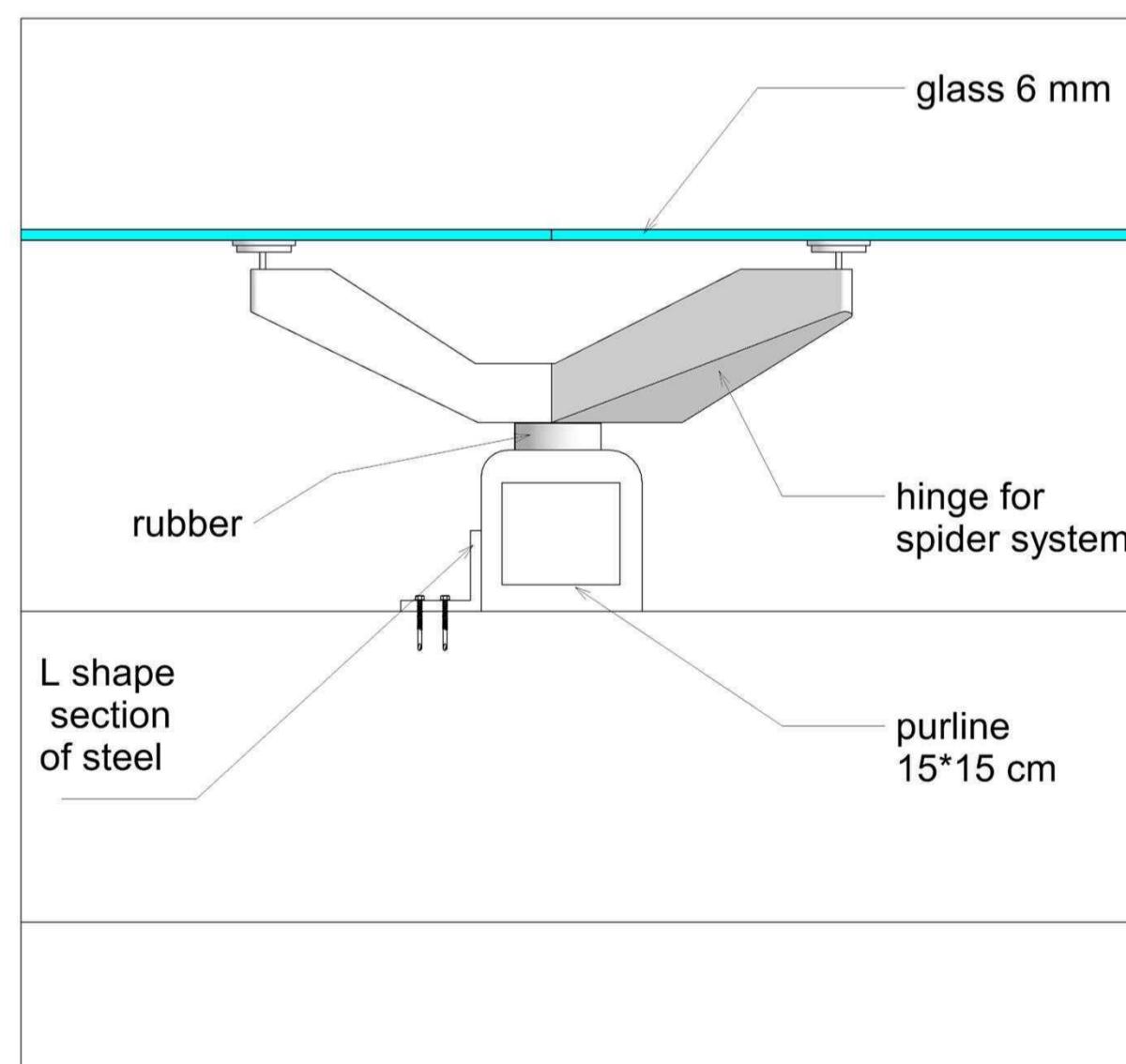
02- First - spider system 3

1 : 5



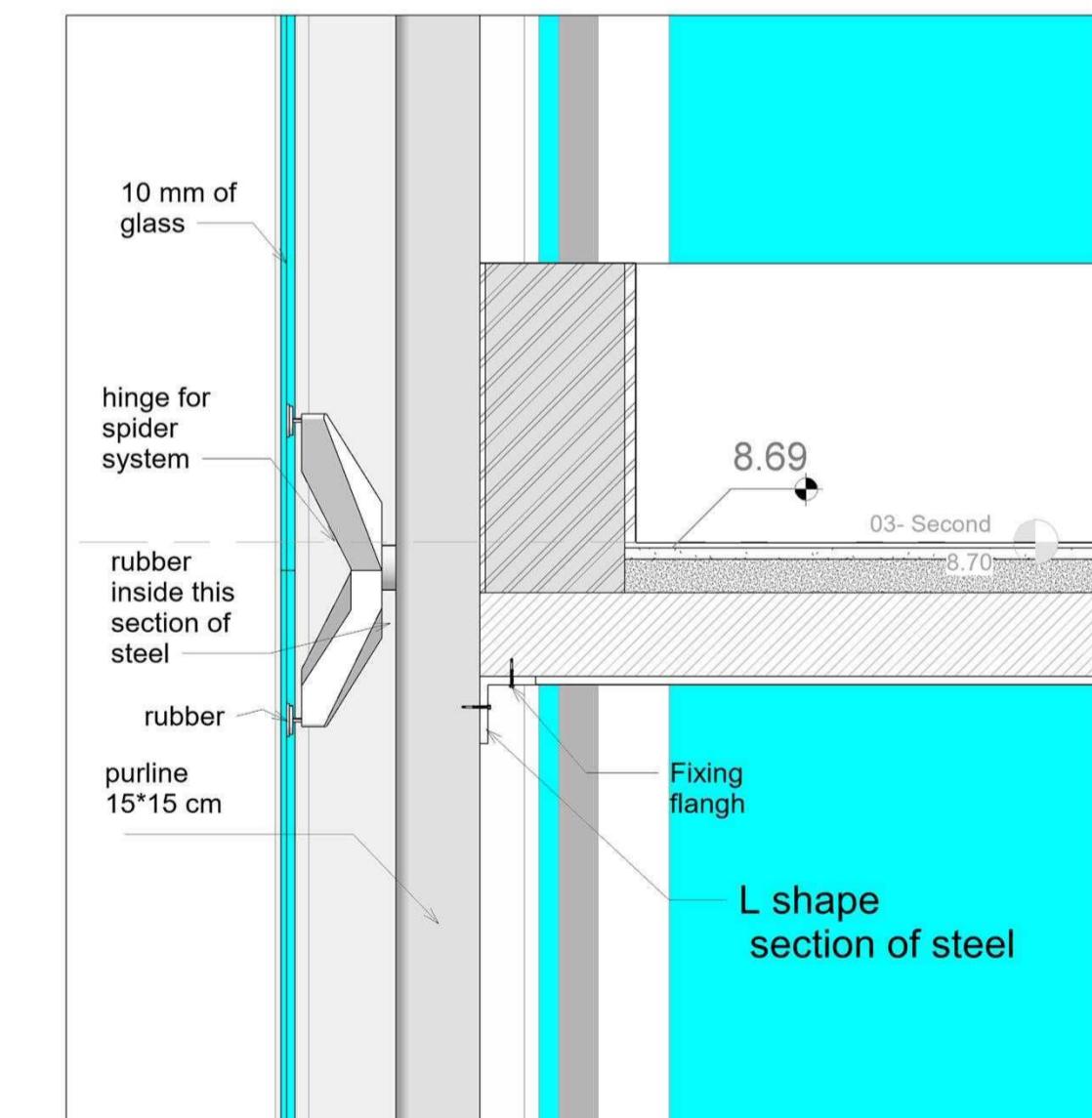
02- First - spider system 4

1 : 10



02- First - spider system 2

1 : 5

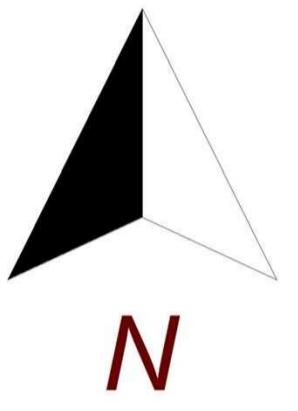


Section 2 -Spider Detaill

1 : 10



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wall floor  
ceiling wazara

Important notes:

Key Note :

project title :

R.C.M Mall

Drawn by :

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Third Division

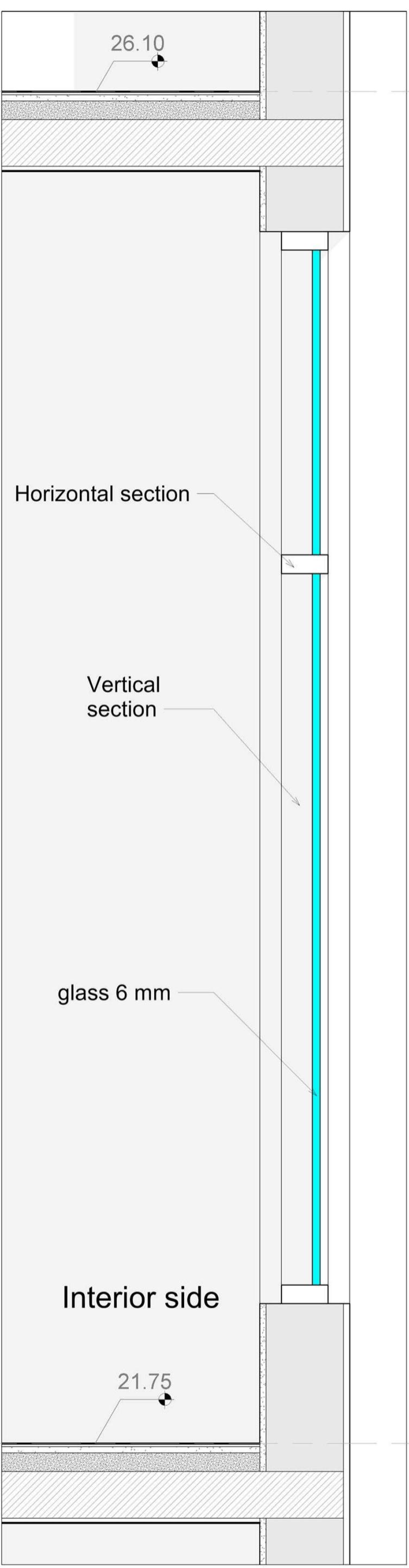
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A 30

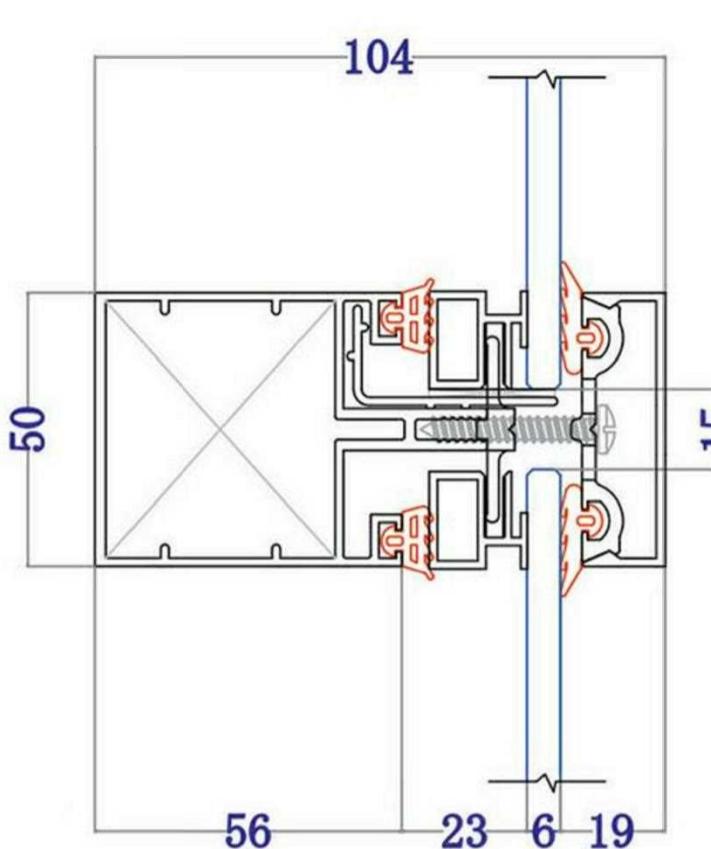
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Curtain walls

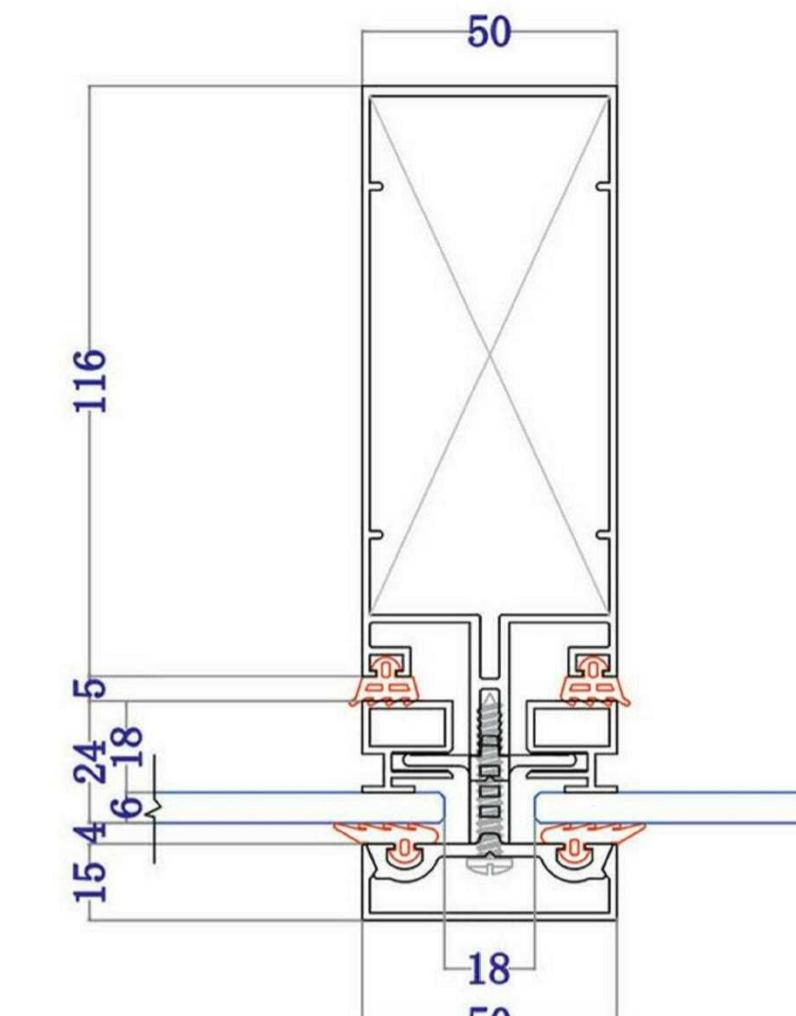
scale 1:10



2 Section 2 - Curtian Deatail  
1 : 10



1 01- Ground - curtian Deatail  
1 : 20



3 North - Curtian Deatail  
1 : 50

