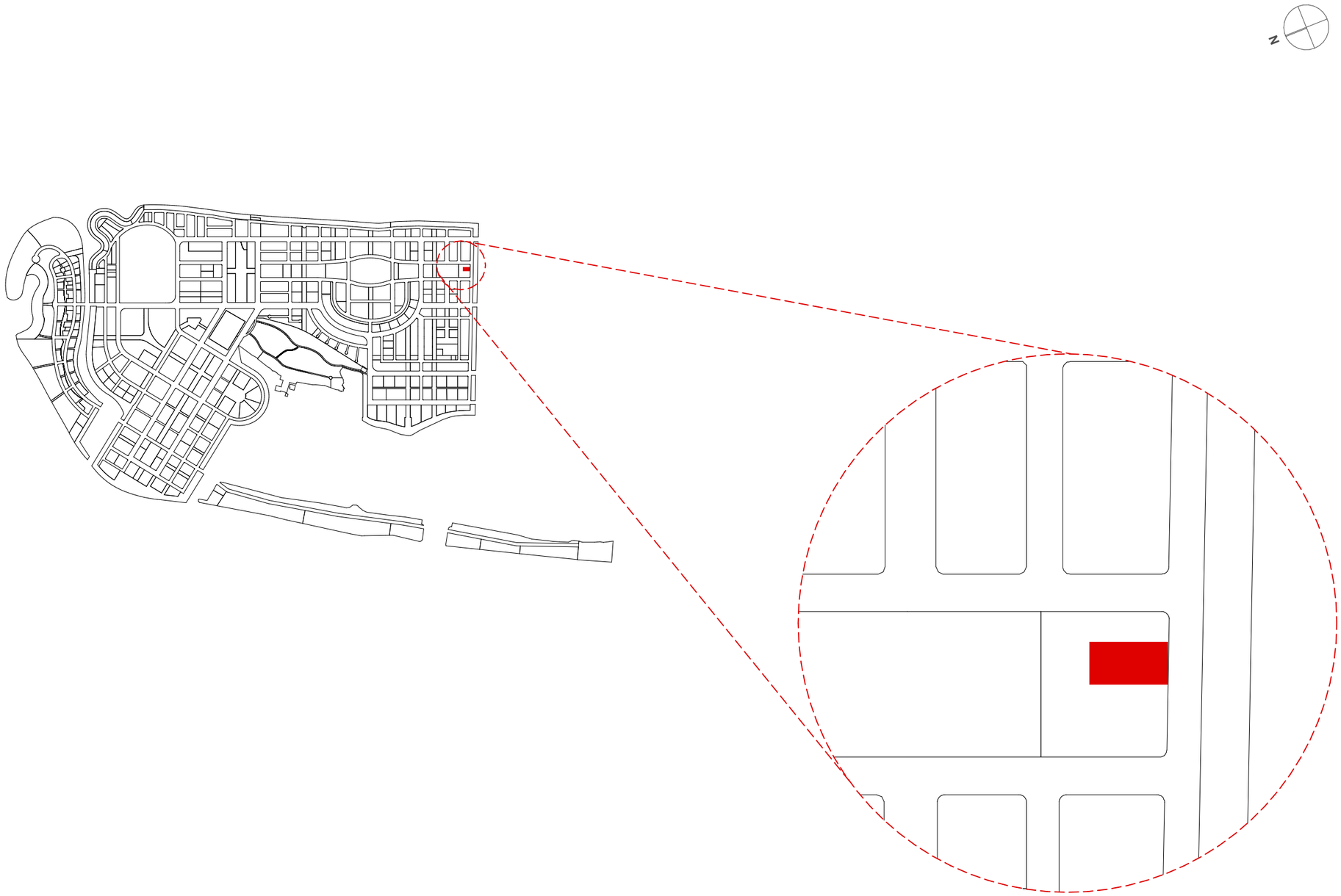
Design Of Cable Landing Data Station Facility

Architectural Detail Drawings

Ocean Connect Maldives Pvt Ltd

Date: Monday, October 17, 2022

Project Number: EP/PRJ/2022/34



Location Plan
1:500

#	REVISION	BY	APP	DATE

Project :
Design Of Cable Landing Data Station Facility

Client :
Ocean Connect Maldives Pvt Ltd

Prepared by

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Page Title
Location Plan

Scale : 1:500

Doc No : EP/BLD-AR/2022/34/DD-T03/01
Date : Monday, October 17, 2022

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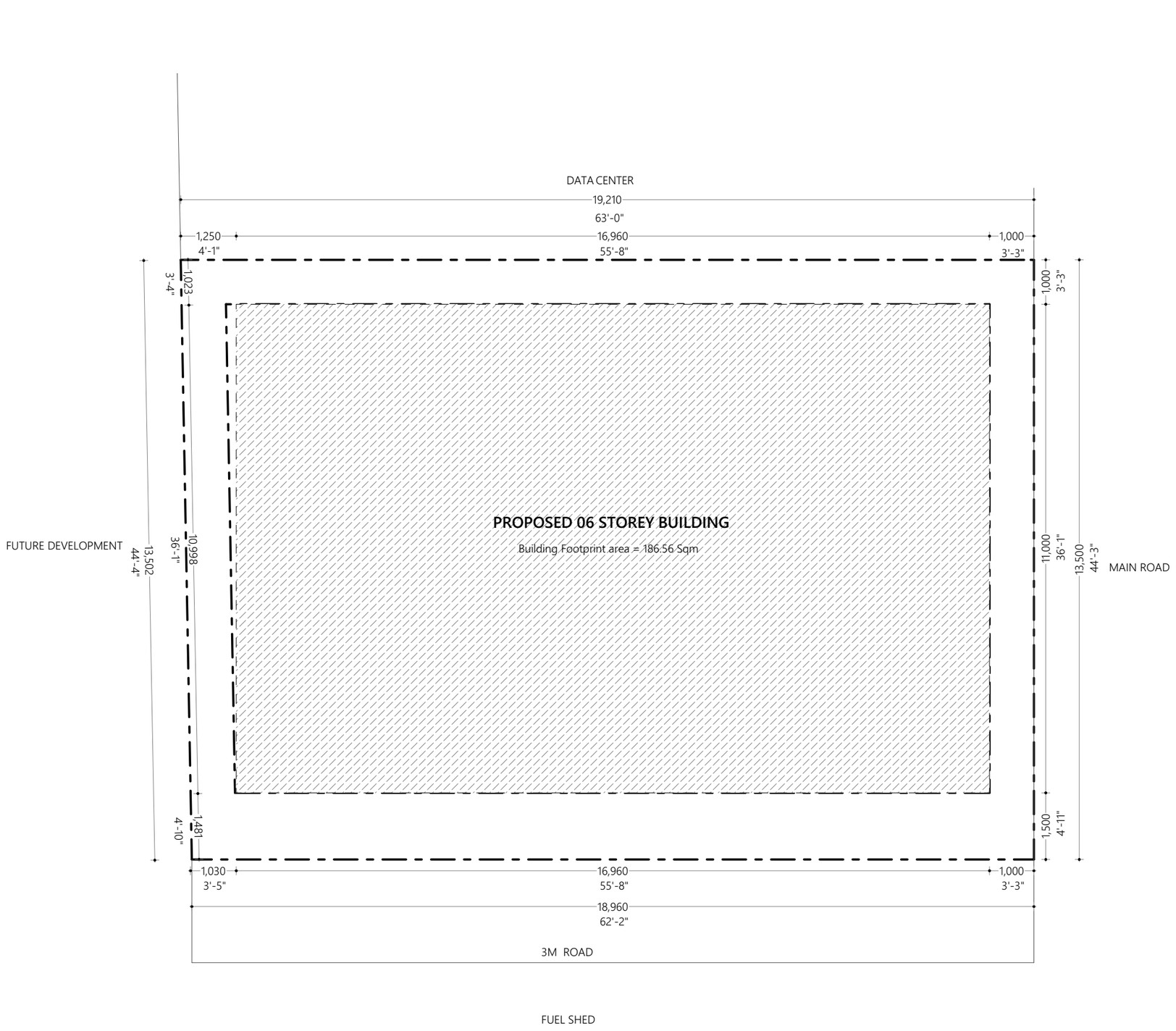
Pg : A.1.01



Site Plan
1:100

Building Information List

Plot Area :	257.63 sqm
Footprint Area :	186.56 sqm
Built-up Area :	1652
Longest Length :	16m
Width Coefficient :	11.66
Open Areas :	-
Building Height :	24m
Road Width :	3m

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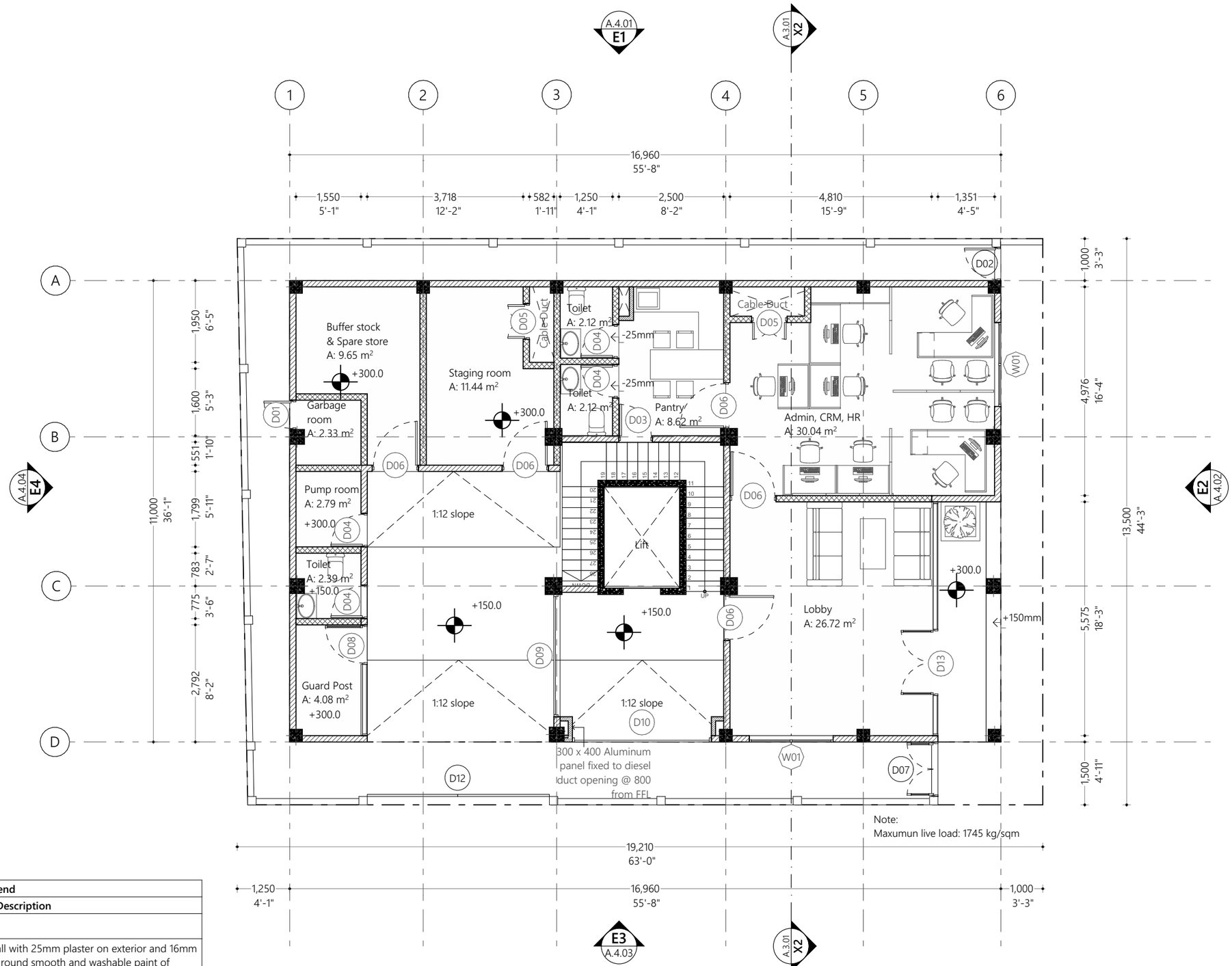
Page Title
Site Plan

Scale : 1:100

Doc No : EP/BLD-AR/2022/34/DD-T03/01
Date : Monday, October 17, 2022

Rev No : **Pg :** A.1.02



Ground Floor Plan
1:100

Wall Legend	
2D Plan View	**Description**
	1.2m High RC Wall
	100mm thick interior masonry wall with 25mm plaster on exterior and 16mm plaster on interior finished with ground smooth and washable paint of selected color for ducts
	150mm thick exterior masonry wall with 25mm plaster on exterior and 16mm plaster on interior finished with ground smooth and washable paint of selected color
	150mm thick interior masonry wall with 25mm plaster on exterior and 16mm plaster on interior finished with ground smooth and washable paint of selected color

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Page Title
Ground Floor Plan

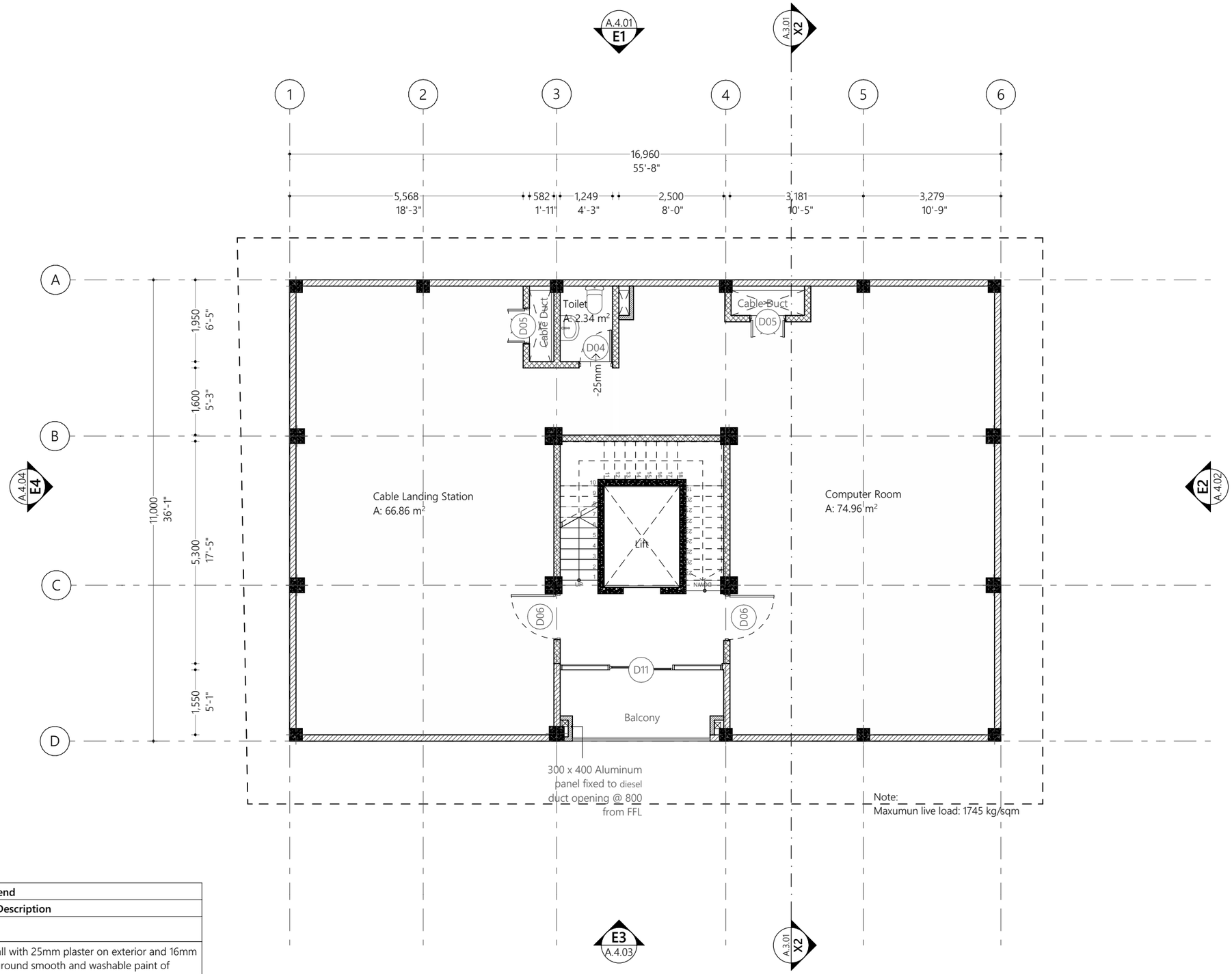
Scale : 1:1, 1:100

Doc No : EP/BLD-AR/2022/34/DD-T03/01

Date : Monday, October 17, 2022

Rev No :

Pg : A.2.01



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First Floor Plan
1:100

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Page Title
First Floor Plan

Scale : 1:100, 1:1

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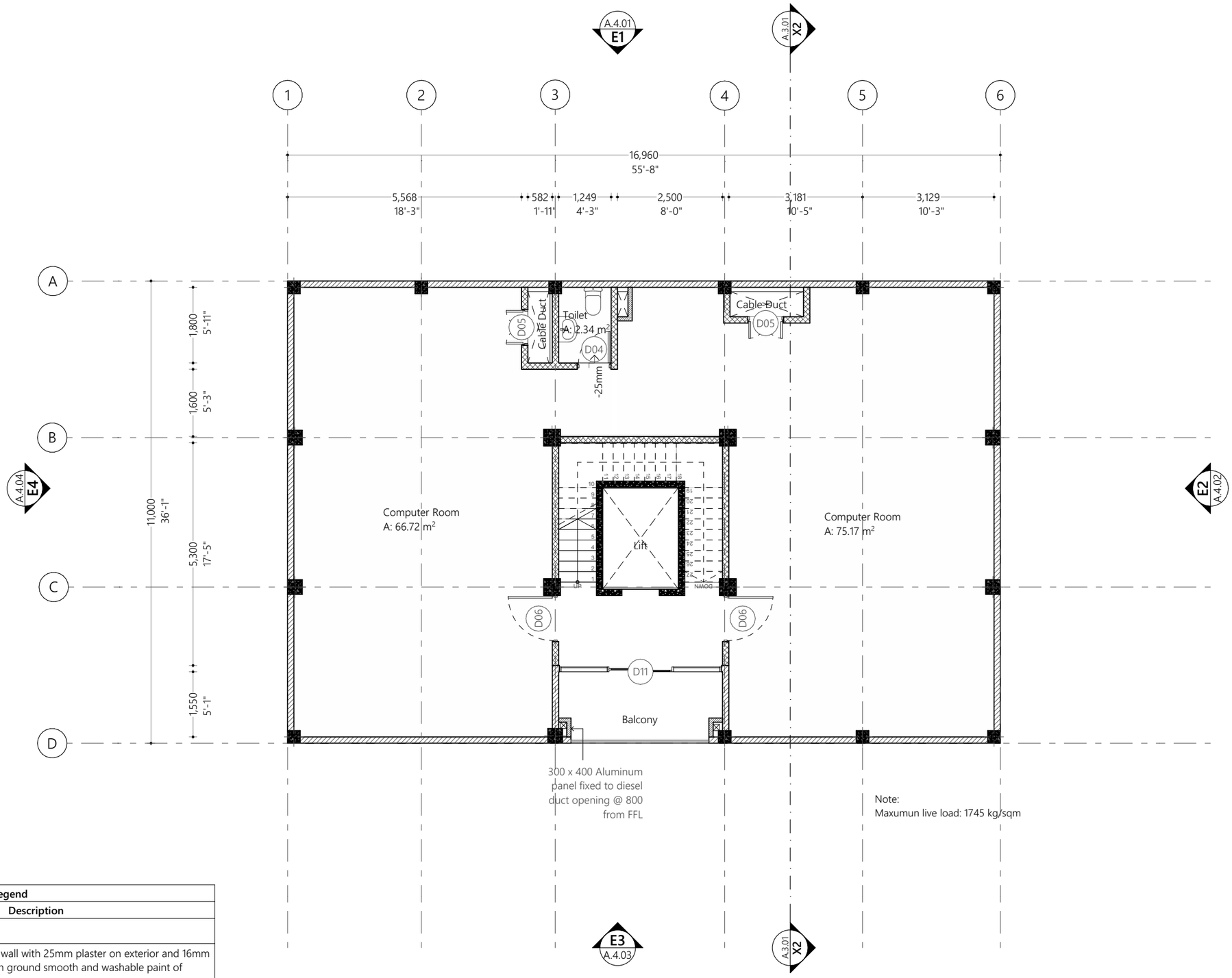

Second - Third Floor Plan
1:100

Wall Legend	
2D Plan View	**Description**
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	100mm thick interior masonry wall with 25mm plaster on exterior and 16mm plaster on interior finished with ground smooth and washable paint of selected color for ducts
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Page Title
Second Floor Plan

Scale : 1:100, 1:1

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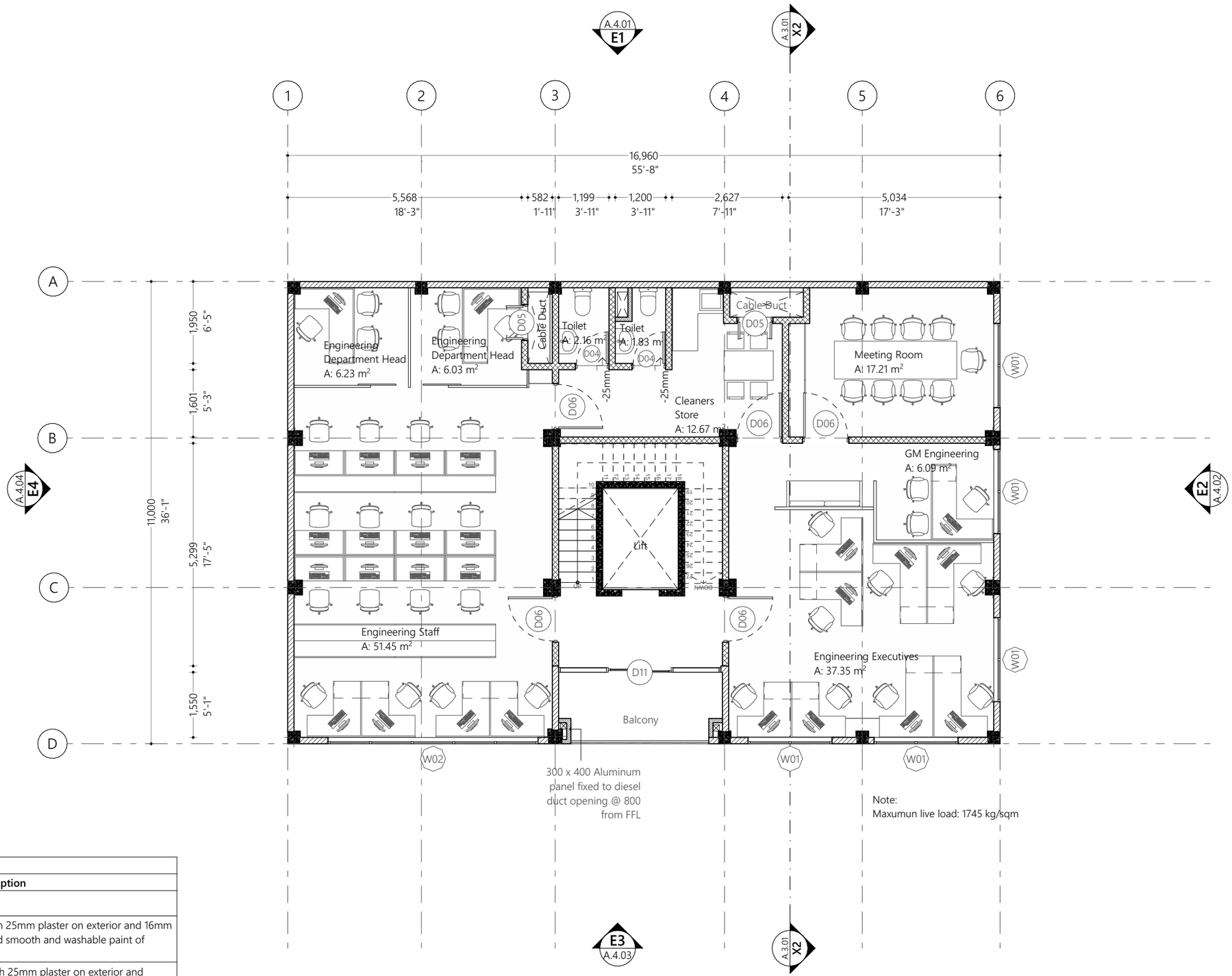

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Fourth Floor Plan

1:100

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Page Title
Fourth Floor Plan

Scale : 1:100, 1:1

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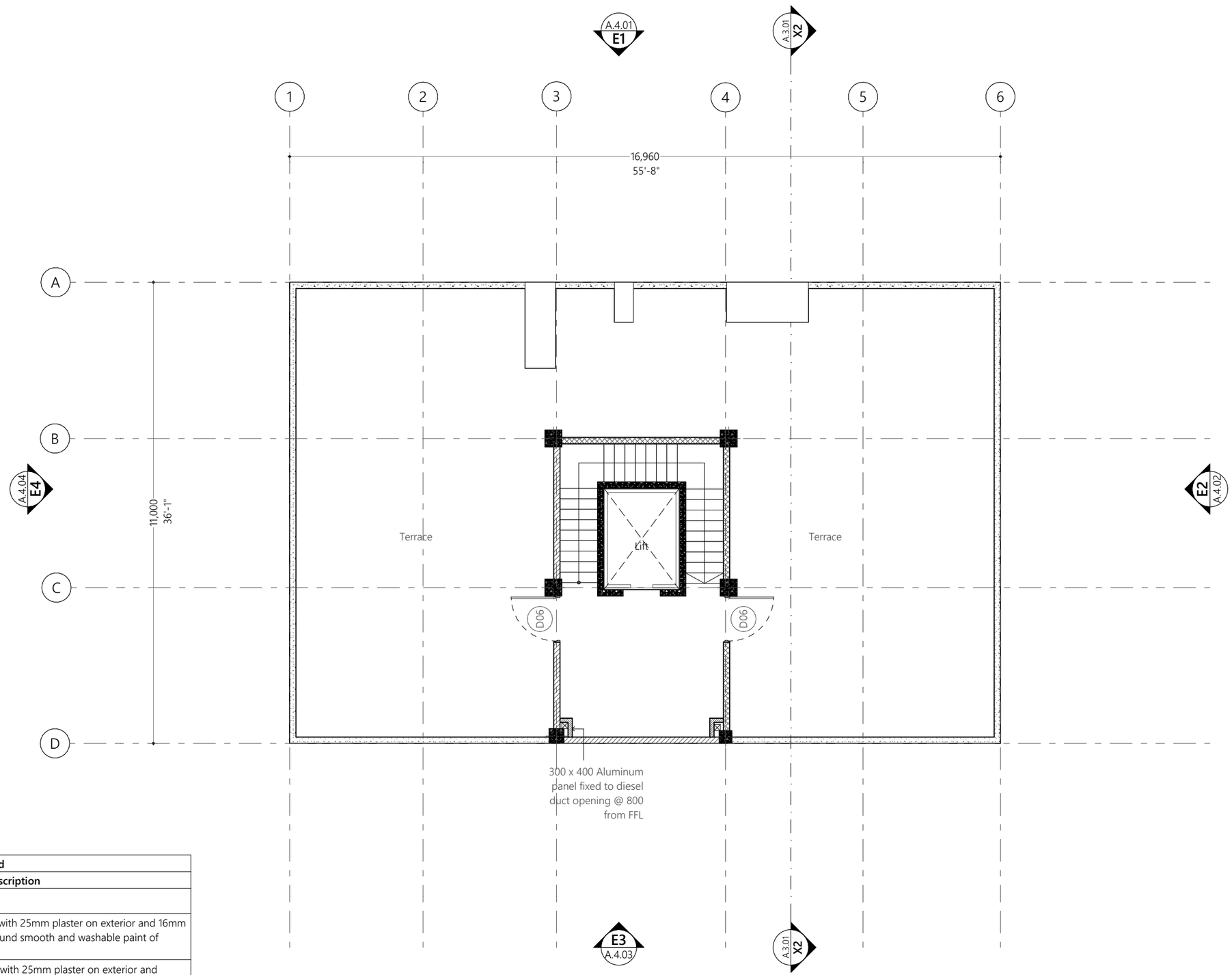
Date : Monday, October 17, 2022

Rev No : **Pg :** A.2.04



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Terrace Floor Plan
1:100

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Page Title
Terrace Floor Plan

Scale : 1:100, 1:1

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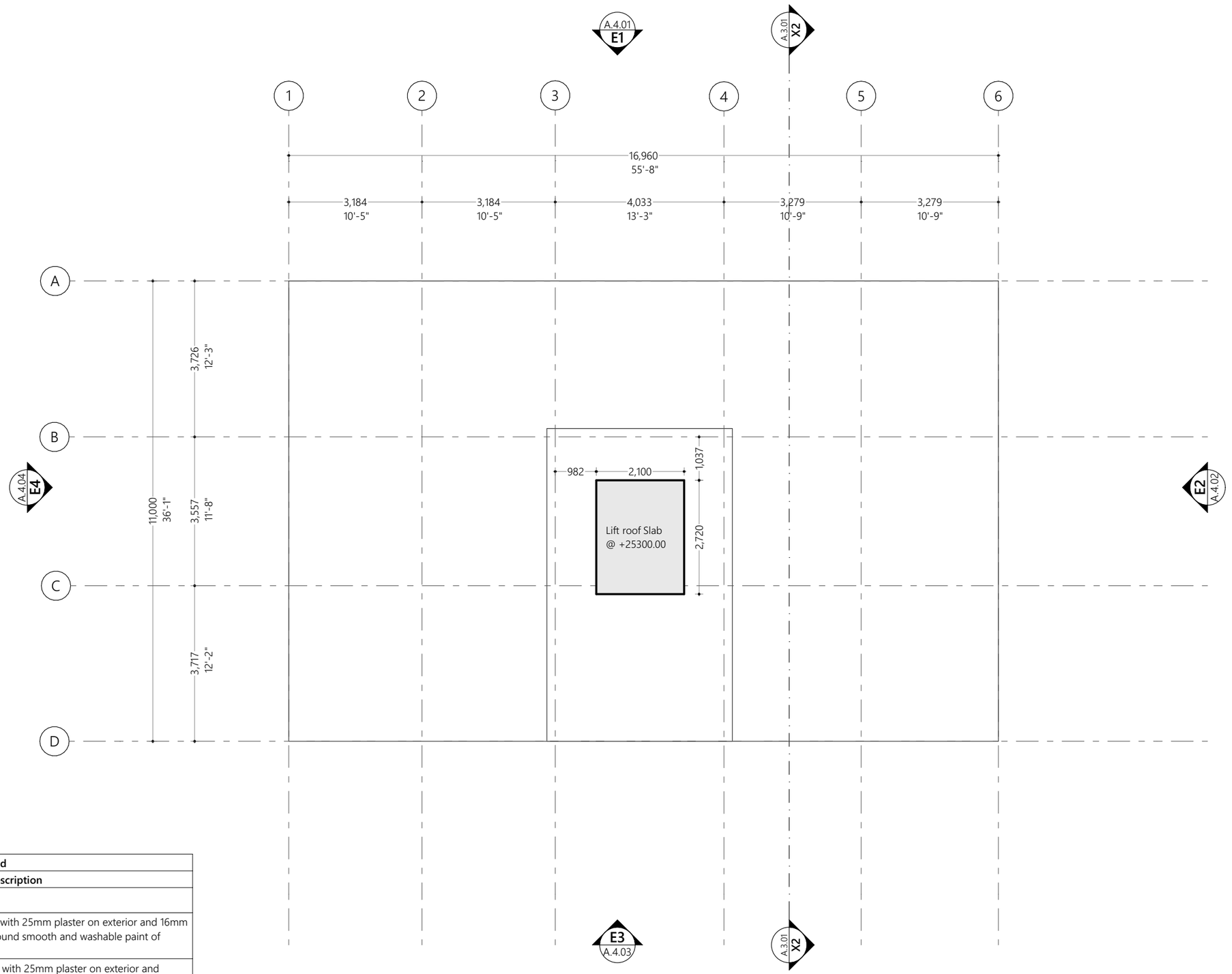

Roof Plan
1:100

Wall Legend	
2D Plan View	**Description**
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Page Title
Roof Plan

Scale : 1:100, 1:1

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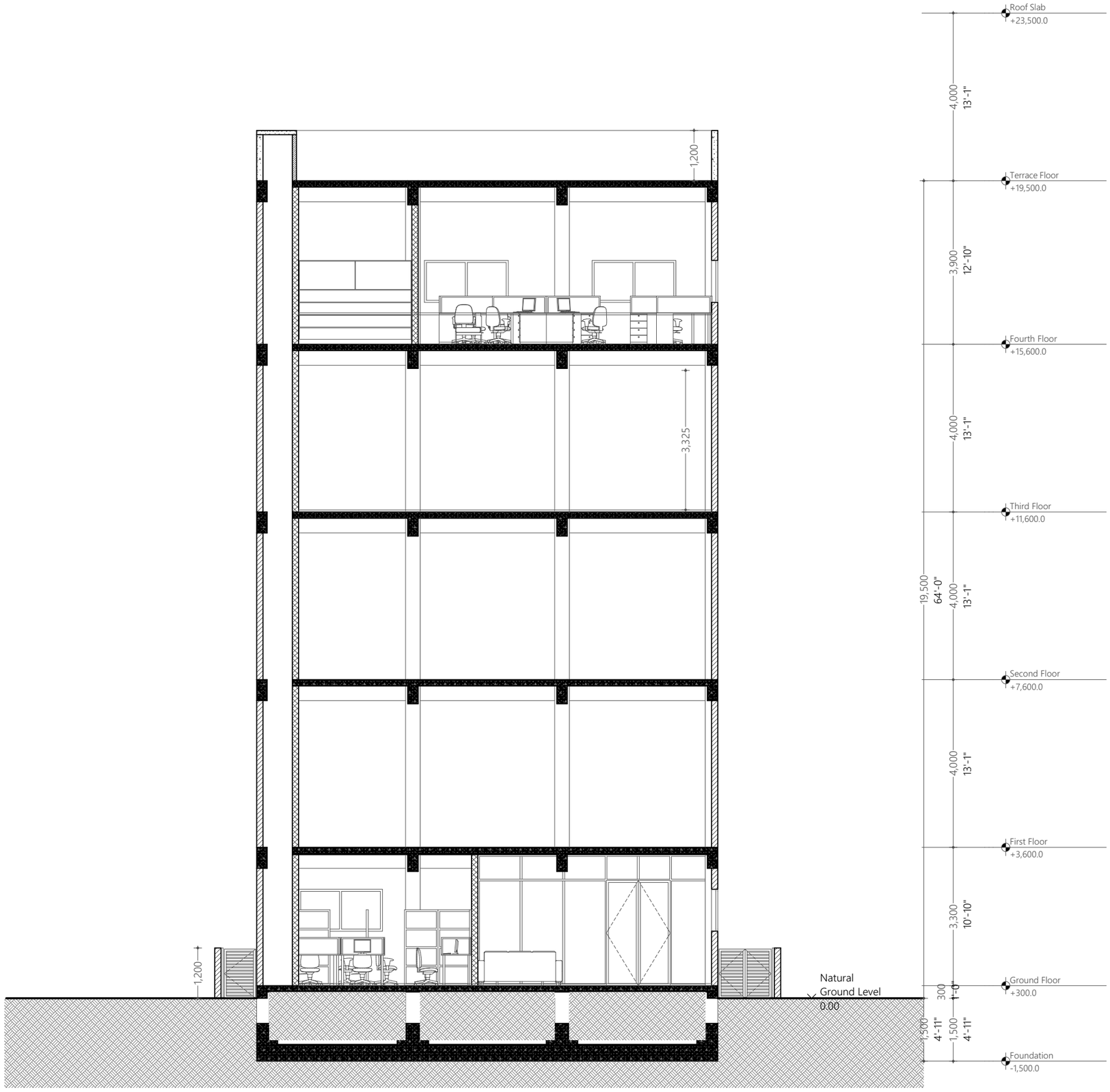

X1 Building Section
1:100

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Page Title
Section 1

Scale : 1:100

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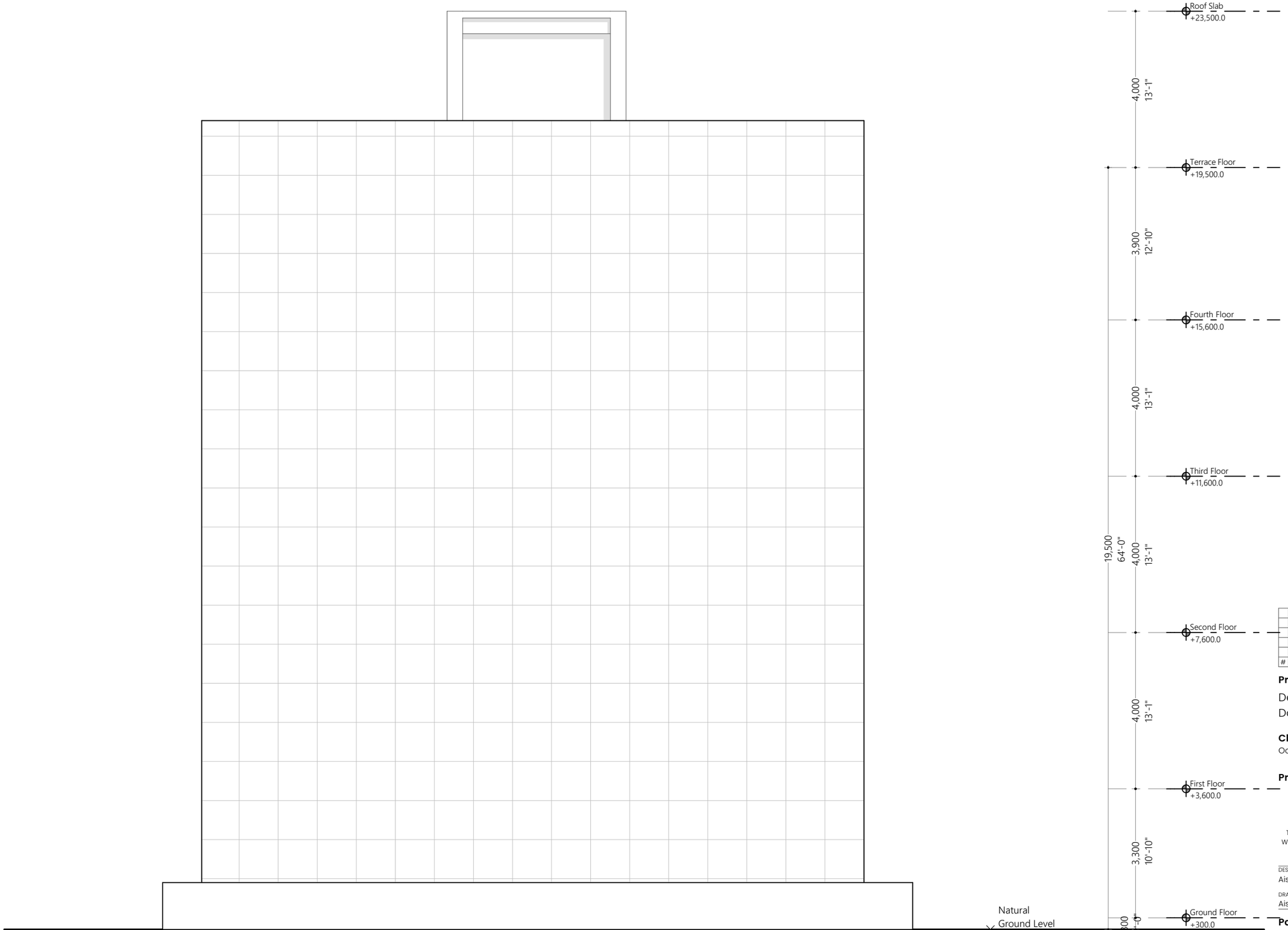
Pg : A.3.01



Elevation E1
1:100

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Page Title
Elevation 1

Scale : 1:100

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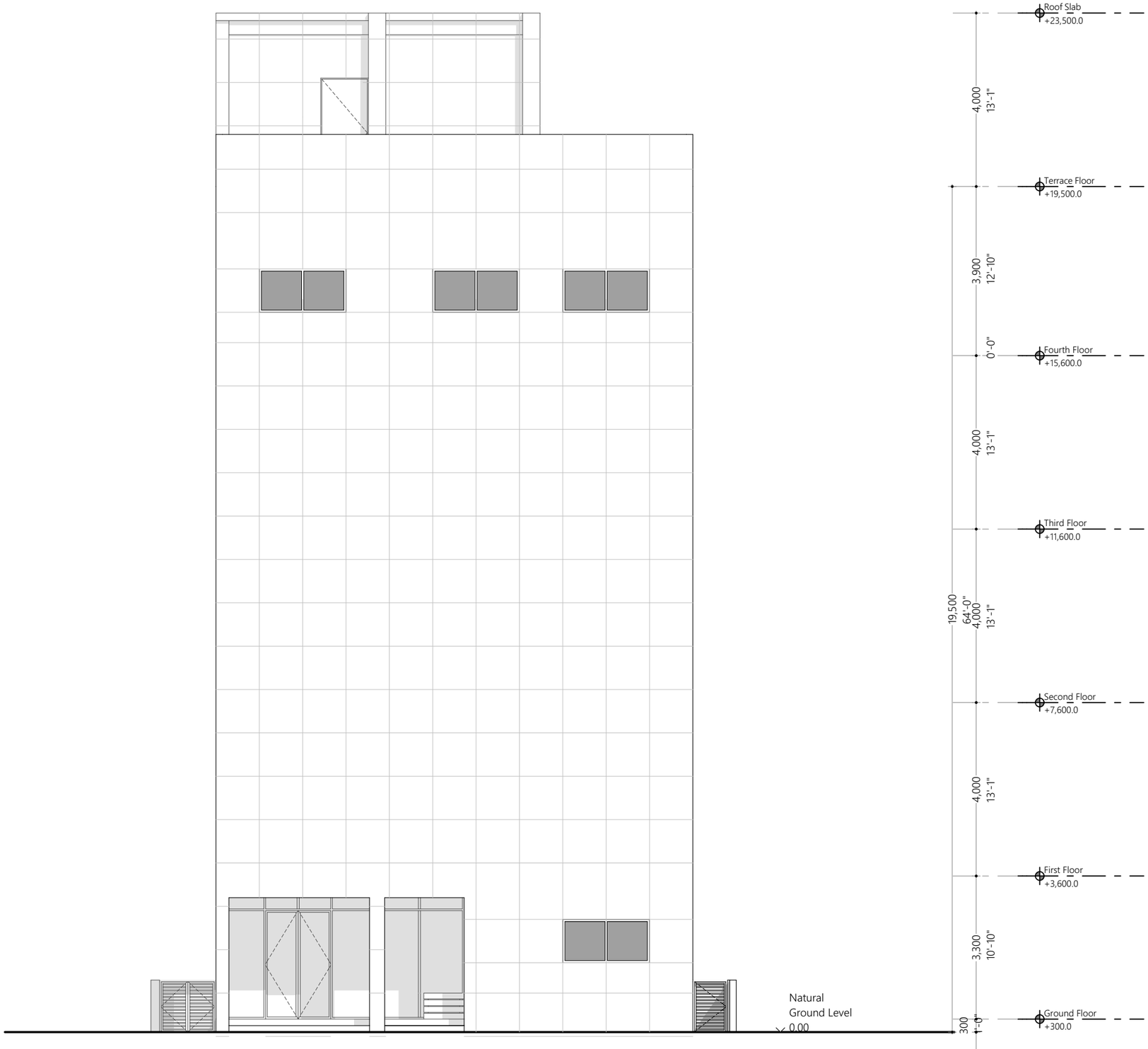

Elevation E2

1:100

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Page Title

Elevation 2

Scale : 1:100

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Date : Monday, October 17, 2022

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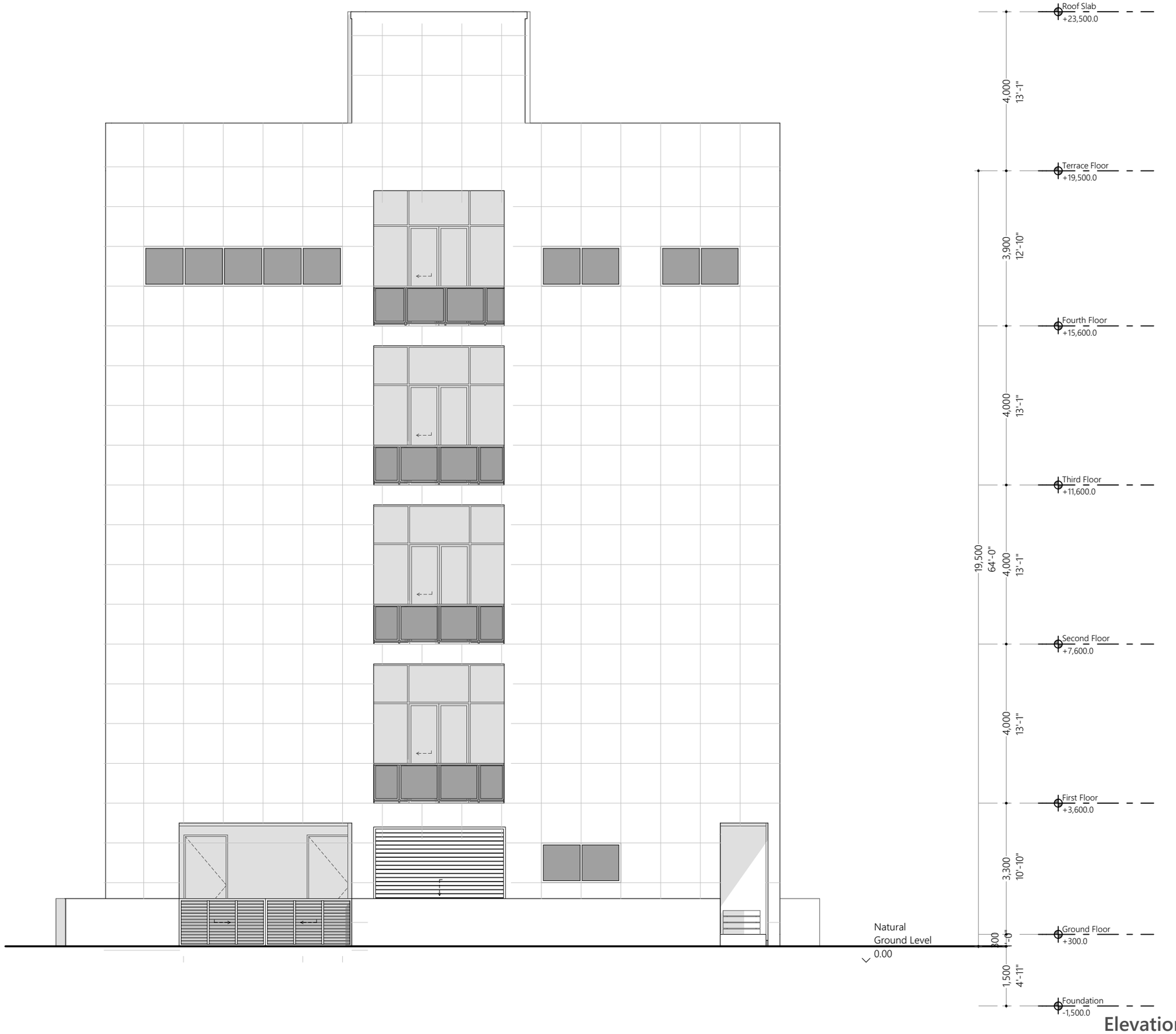

Elevation E3
1:100

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Page Title
Elevation E3

Scale : 1:100

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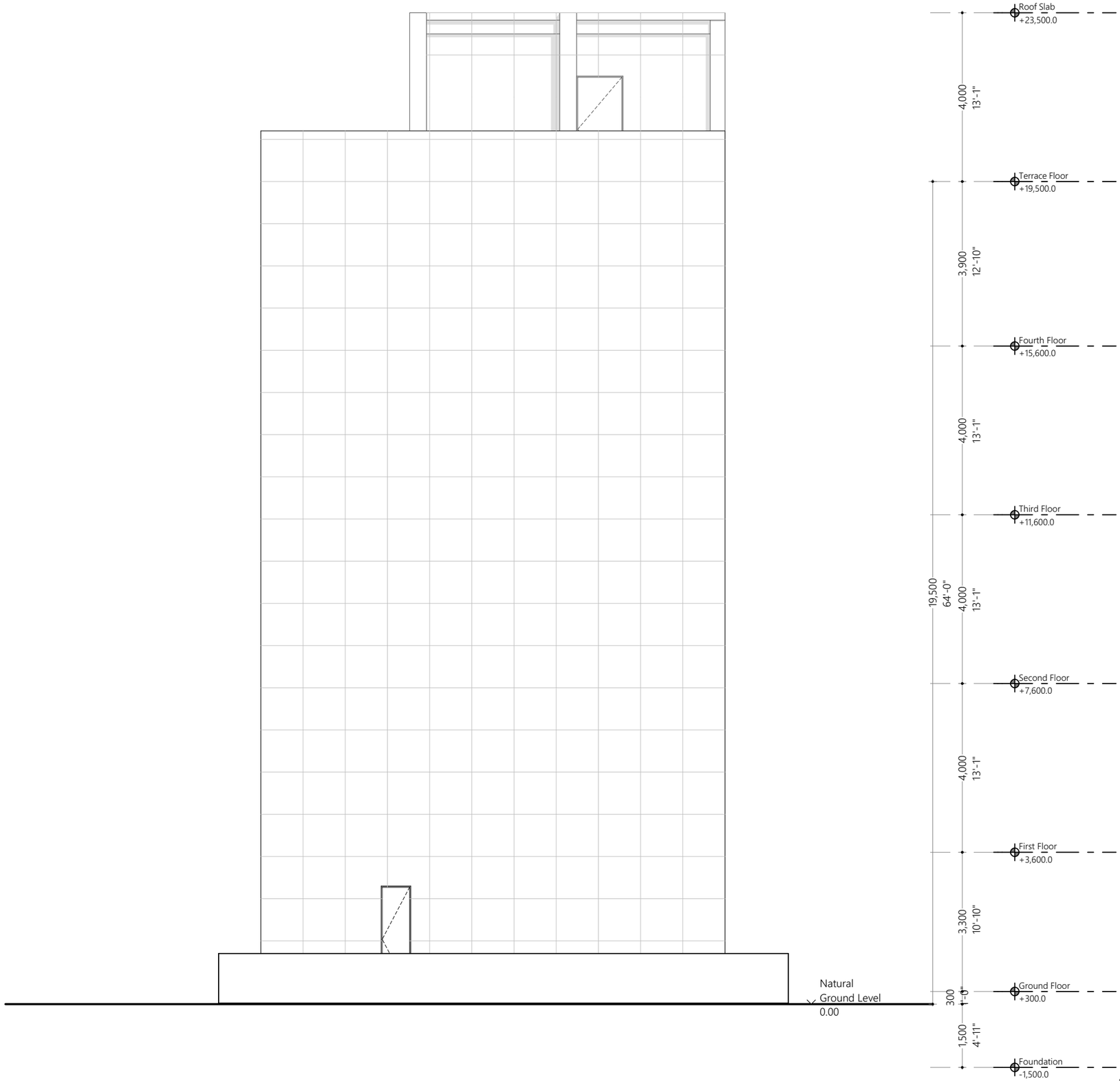
Pg : A.4.03



Elevation E4
1:100

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Elevation E4

Scale : 1:100

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Pg : A.4.04

All Openings Schedule							
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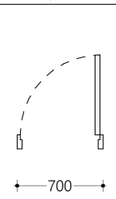
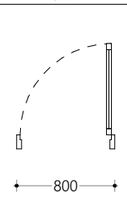
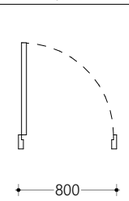
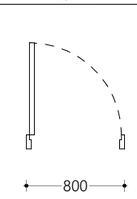
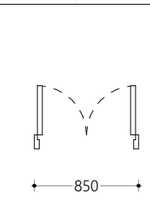
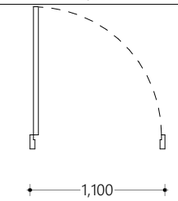
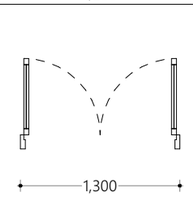
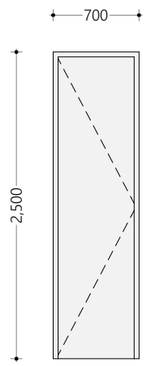
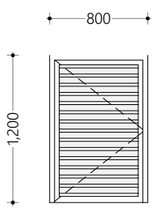
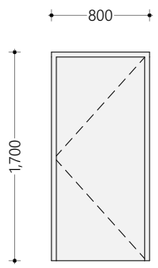
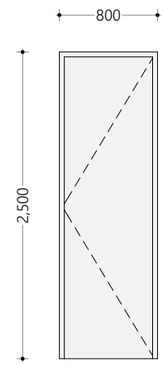
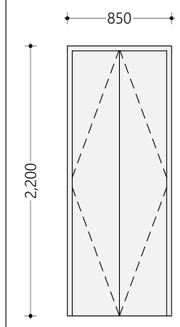
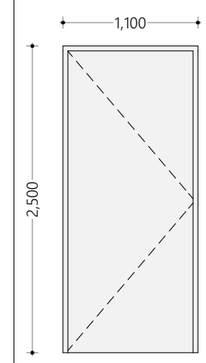
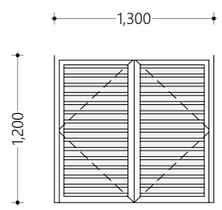
Quantity	1	1	1	9	10	18	1
W x H Size	700×2,500	800×1,200	800×1,700	800×2,500	850×2,200	1,100×2,500	1,300×1,200
Sill height	0	0	0	0	300	0	0
Head height	2,500	1,200	1,700	2,500	2,500	2,500	1,200
2D Symbol							
View from Side Opposite to Opening Side							
Frame	Solid core Hardwood Fire Rated	Powder Coated Aluminum	Solid core Hardwood Fire Rated	Solid core Hardwood Fire Rated	Solid core Hardwood Fire Rated	Solid core Hardwood Fire Rated	Powder Coated Aluminum
Door Leaf	Solid core Hardwood Fire Rated	Powder Coated Aluminum	Solid core Hardwood Fire Rated	Solid core Hardwood Fire Rated	Solid core Hardwood Fire Rated	Solid core Hardwood Fire Rated	Powder Coated Aluminum
Window Sash	---	---	---	---	---	---	---
Glazing	01 (No Glazing)	01 (No Glazing)	01 (No Glazing)	01 (No Glazing)	01 (No Glazing)	01 (No Glazing)	01 (No Glazing)

Door and Window Notes

Dimensions shown on DWG indicate effective openings of frame

All frame depths are 100mm
All door leaf thicknesses are 35mm
All window sash thickness are 25mm
All frame edges shal be trimmed 3mm
All wooden components should be wood stained finish
All aluminum components to be powder coated (min. 60 microns)

All aluminum panels should be of 6mm thick unless specified
All glazing should be of 6mm unless specified

External units must comply the following weather conditions:
Wind pressure: 200 kg/sqm
Water tightness: 25 kg/sqm

All external frames / wall joints must be sealed with silicon sealant and the wedges trimmed with 12X12mm hardwood beading fixed to frames by brass nails

Sealent shall be provided at all joints while fabrication

All hardware should be provided for the performance of al functions of the units
Hinges shall confirm to

1) Door size more than 700X1900mm
WD: 125mm X2 sets
SD: 150mm X3 sets

2) Door size less than 700X1900mm
WD: 100mm X2 sets
SD: 125mm X2 sets

Locks shall be cylinderical with master key sets
Door knobs shall be1000mm above FFL

All Openings Schedule

1:1

#	REVISION	BY	APP	DATE

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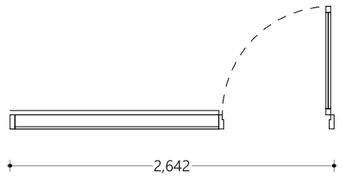
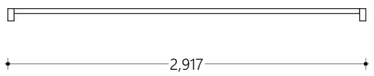
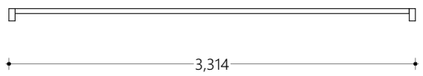
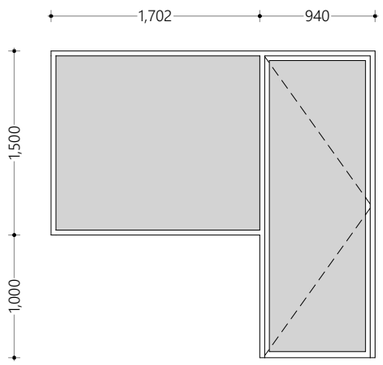
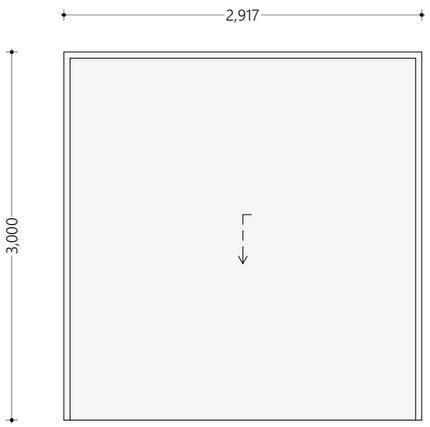
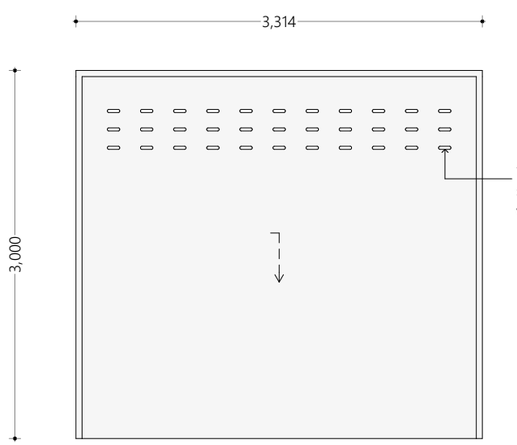
Page Title
All Opening Schedule

Scale : 1:100, 1:1

Doc No : EP/BLD-AR/2022/34/DD-T03/01
Date : Monday, October 17, 2022

Rev No :

Pg : A.5.01

All Openings Schedule			
Element ID	D08	D09	D10
Quantity	1	1	1
W x H Size	2,642×2,500	2,917×3,000	3,314×3,000
Sill height	0	-150	-300
Head height	2,500	2,850	2,700
2D Symbol			
View from Side Opposite to Opening Side			
Frame	Powder Coated Aluminum	Powder Coated Aluminum	Powder Coated Aluminum
Door Leaf	Powder Coated Aluminum	Powder Coated Aluminum	Powder Coated Aluminum
Window Sash	---	---	---
Glazing	01 Clear Glass	01 (No Glazing)	01 (No Glazing)

Door and Window Notes

Dimensions shown on DWG indicate effective openings of frame

All frame depths are 100mm
All door leaf thicknesses are 35mm
All window sash thickness are 25mm
All frame edges shal be trimmed 3mm
All wooden components should be wood stained finish
All aluminum components to be powder coated (min. 60 microns)

All aluminum panels should be of 6mm thick unless specified
All glazing should be of 6mm unless specified

External units must comply the following weather conditions:
Wind pressure: 200 kg/sqm
Water tightness: 25 kg/sqm

All external frames / wall joints must be sealed with silicon sealant and the wedges trimmed with 12X12mm hardwood beading fixed to frames by brass nails

Sealent shall be provided at all joints while fabrication

All hardware should be provided for the performance of al functions of the units
Hinges shall confirm to

1) Door size more than 700X1900mm
WD: 125mm X2 sets
SD: 150mm X3 sets

2) Door size less than 700X1900mm
WD: 100mm X2 sets
SD: 125mm X2 sets

Locks shall be cylinderical with master key sets
Door knobs shall be1000mm above FFL

All Openings Schedule

1:1

#	REVISION	BY	APP	DATE

Project :
Design Of Cable Landing Data Station Facility

Client :
Ocean Connect Maldives Pvt Ltd

Prepared by

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All Opening Schedule

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Doc No : EP/BLD-AR/2022/34/DD-T03/01
Date : Monday, October 17, 2022

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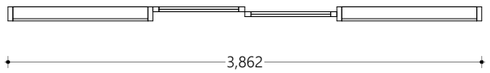
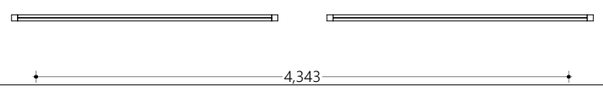
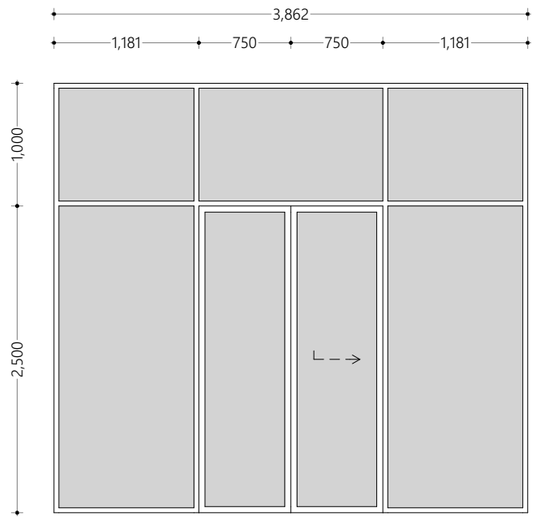
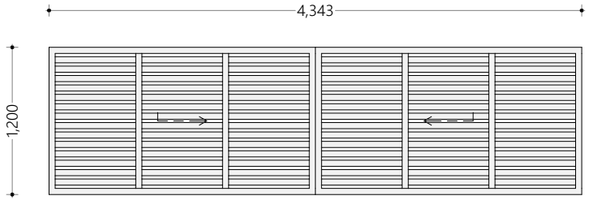
All Openings Schedule		
Element ID	D11	D12
Quantity	4	1
W x H Size	3,862×3,500	4,343×1,200
Sill height	0	-300
Head height	3,500	900
2D Symbol		
View from Side Opposite to Opening Side		
Frame	Powder Coated Aluminum	Powder Coated Aluminum
Door Leaf	Powder Coated Aluminum	Powder Coated Aluminum
Window Sash	---	---
Glazing	01 Clear Glass	01 (No Glazing)

Door and Window Notes

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All Openings Schedule

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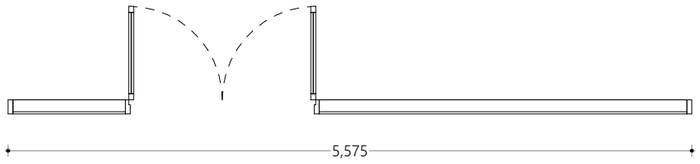
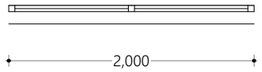
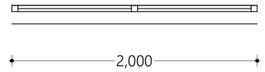
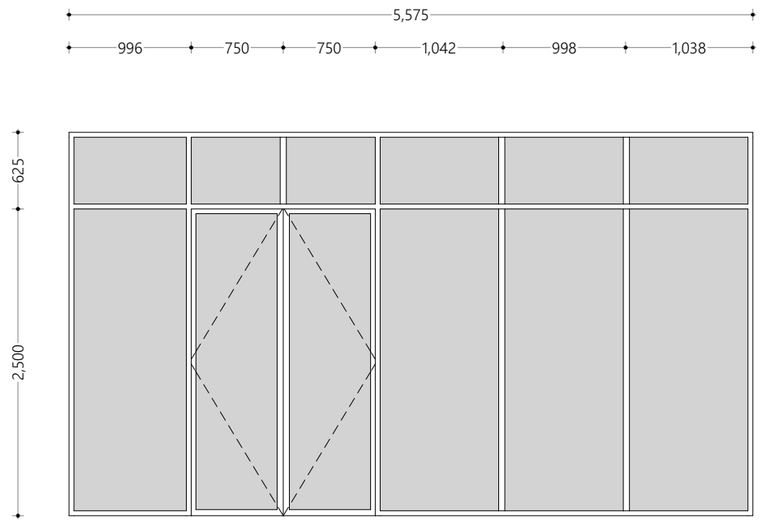
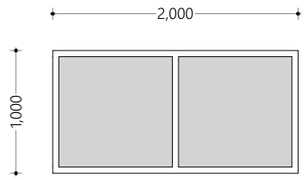
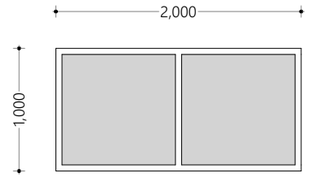
All Opening Schedule

Scale : 1:100, 1:1

Doc No : EP/BLD-AR/2022/34/DD-T03/01
Date : Monday, October 17, 2022

Rev No : **Pg :** A.5.03

All Openings Schedule			
Element ID	D13	W01	W01
Quantity	1	2	5
W x H Size	5,575×3,125	2,000×1,000	2,000×1,000
Sill height	0	1,300	1,000
Head height	3,125	2,300	2,000
2D Symbol			
View from Side Opposite to Opening Side			
Frame	Powder Coated Aluminum	Powder Coated Aluminum	Powder Coated Aluminum
Door Leaf	Powder Coated Aluminum	---	---
Window Sash	---	Powder Coated Aluminum	Powder Coated Aluminum
Glazing	01 Clear Glass	01 Clear Glass	01 Clear Glass

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Doc No : EP/BLD-AR/2022/34/DD-T03/01
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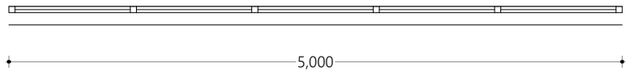
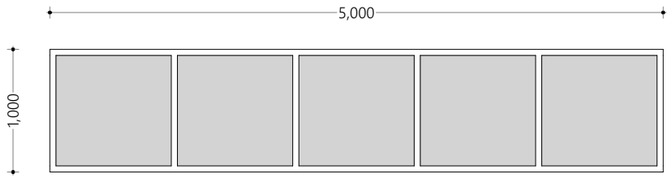
Rev No : **Pg :** A.5.04

All Openings Schedule	
Element ID	W02
Quantity	1
W x H Size	5,000×1,000
Sill height	1,000
Head height	2,000
2D Symbol	
View from Side Opposite to Opening Side	
Frame	Powder Coated Aluminum
Door Leaf	---
Window Sash	Powder Coated Aluminum
Glazing	01 Clear Glass

Door and Window Notes

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Design Of Cable Landing Data Station Facility

Structural Detail Drawings

Ocean Connect Maldives Pvt Ltd

Date: Monday, October 17, 2022

Project Number: EP/PRJ/2022/34

1. General notes

1.1. Do not scale the drawings. All dimensions shall be read from the drawing or computed. Elevations are in millimeters, distances and reinforcement bar sizes are in millimeters

1.2. In the interpretation of these drawings, indicated dimensions shall govern and distances or sizes shall not be scaled for construction purposes

1.3. The contractor shall coordinate with the arse, ee and other utility and equipment plans for the exact size number and locations of all sleeves or openings through floor slabs, beams and walls. Any discrepancies or conflict in the setting out lines, levels, details, locations, sizes, reinforcement etc. Of the structural member shall be brought to the attention of the engineer prior to commencement of work.

1.4. All reinforced concrete work shall be done in accordance with the british structural code bs 8110 or ec-en2 building code

1.5. All structural steel work shall be done in accordance with the british structural code bs 5950 parts 1to 9 and ec-en3 in so far as they do not conflict with the local building code requirements

1.6. All slabs, beams and other structural elements which are not indicated, detailed, designated or inadvertently omitted but are necessary to be coordinated with architectural and other allied engineering plans as well as to complete the structural works in accordance with the intent of the plans and specifications shall be brought up during pre-bids/meetings/negotiations. It is understood that the contractor has provided and included all these items in his bid.

1.7. The contractor shall produce shop drawings and schedules as required for completion of the works and record drawings of the as-built and builder works for the consultant's approval.

1.8. Contractor shall do full coordination between structural, architectural and mep drawings in wet areas to allow for drainage pipes

1.9. All discrepancies shall be brought to the attention of the consultant engineer proceeding with the work on site

1.10. All materials to be used in conjunctions shall comply with the requirements of the specified codes, standards and ordinance of relevant building authorities unless noted otherwise in the project specification and /or drawings.

1.11. All dimensions and levels shown on the drawings shall be verified by the contractor . Any discrepancies shall be brought to consultants attention prior to construction

1.12. The contractor shall ensure that during construction, no part of the structure is overstressed by excessive construction loads until their completion. Temporary bracing and propping to be provided were required

1.13. Once the excavation is done to a specified depth, the bearing capacity of the soil shall be confirmed by relevant test, if the value is less than the design bearing capacity the engineer is to be informed immediately

1.14. The contractor shall submit a method statement for all elements of work and shall not proceed until consultant's written approval is given The method statement shall provide the contractors preferable options where such options are available.

1.15. The contractor shall comply with all requirements of the local regulations and requirements of all concerned authorities

1.16. Quality of concrete finish for all non-plastered columns and beams is to be in accordance with fair faced concrete as reflected on the architectural drawings and specifications.

1.17. Any structural requirements specified by relevant authorities, which are not covered in notes and specifications are assumed to be duly considered by the contractor.

1.18. All typical details and notes shown on drawings shall apply unless noted otherwise. Typical detail may not necessary be indicated on the plans but shall still apply as shown or described in the details where particular details are noted on the drawings the specified details shall be used.

1.19. The design life of the structure of this project shall maintain a minimum of 50 years life period The primary structural components are to be designed and detailed to satisfy this requirement. Concrete mix supplier shall submit a life cycle analysis which reflect a 50 years design life without maintenance, inspection and repair requirement during this period.

2. Concrete

2.1. All concrete works shall conform to the bs8110 or ec-en, a grade of c25/30 indicates that concrete shall have a fcu compressive strength of 30n/mm2 established from test cubes at 28 days equivalent to a compressive strength of 25n/mm2 established from cylinder tests at 28 days.

concrete mix design shall comply with bs8500-1:2006 as follows:

Miz Number	1	2	3	4
Grade	C30/37	C25/30	C25/30	C16/20
Min cement content (kg/m^3)	380	340	340	300
Cement Type	SRC	SRC / OPC	OPC	SRC
Max free W/C ratio	0.4	0.45	0.45	0.55
Slump	75 ± 25	75 ± 25	75 ± 25	100 ± 25
Aggregate	20	20	20	20

mix 1 - used in reinforced concrete works for structures at sea/exposed to sea, water retaining structures and tank structures.

mix 2 - used in reinforced concrete works for ground level and below (sub-structutre) or any reinforced concrete works in contact with soil or water.

mix 3 - used in reinforced concrete works above ground flr lvl (superstructure) for horizontal members (beams/slabs) and vertical members (columns/walls).

mix 4 - used for plain concrete blinding and mass fill.

2.2. Contractor shall implement a trial mix in accordance with the project specifications & authority requirements. Trial mix results shall be submitted for engineer's review & approval prior to commencing concreting.

2.3. Contractor shall submit the details of additives, plasticizers, micro silica, curing compounds, waterproofing agents, etc. Application should follow strictly the manufacturer recommendation. It is contractors responsibility to ensure that all constituents of concrete are compatible to each other.

2.4. Maximum percentage (by weight) of salt contents permissible in aggregates used for concrete, hollow blocks & hourdi blocks, etc, shall be as follows:

a) acid soluble chlorides in aggregate - (fine 0.03%, coarse 0.02%)

b) acid soluble sulphate in aggregate - (fine 0.3%, coarse 0.2%)

2.5. Concrete shall be cured by an approved means in accordance with the specifications.

2.6. Aggregates shall be from approved source and in accordance with the specifications.

2.7. Openings, sleeves:

a) no holes, sleeves or penetrations be placed vertically or horizontally through beams unless approved by the engineer.

b) no holes to be made in slabs unless approved by the engineer.

2.8. Construction joints:

a) the contractor shall submit to the engineer for approval a plan marked up showing the location of all construction joints

b) horizontal construction joints shall not be made in beams, unless approved by the consultant or engineers.

c) vertical construction joints may be located at midspan of slabs or beams after reviewed and approved by the engineers.

d) contractor shall submit shear friction and the additional required reinforcement calculation of construction joint at any location) for engineers review and approval.

3. Reinforcement

3.1. The reinforcement used in the reinforced concrete shall be round, deformed type 2 bars marked as (t) to indicate high yield strength of 460n/mm2 to bs4449 or type 500b to ec-en. The carbon equivalent of rebars should not exceed 0.51 for grade 460.

3.2. Reinforcement details shown are indicative. The contractor shall prepare detailed shop drawings & full bar schedules in accordance with the design drawings and shall be cut and bent in accordance with bs 8666 and aci 315-09 for the engineer's approval at least four weeks prior to commencement of reinforced concrete work and after coordinating with all concerned parties.

3.3. Lap lengths and anchorage lengths of reinforcement shall be as per bs 8110 and ec en. Additional lapping if required to be provided with engineer's approval. The minimum lap length of reinforcement shall be the maximum of (45 bar dia in general and 50 dia for tension) or the values of the table a.

Table a : schedule of lap splices

Bar dia	lap splices length (mm)
10	500
12	600
16	800
20	1000
25	1250

3.4. Spacer bars in beams shall be a minimum t25 or the size of bar if greater at 1000mm c/c; chairs in slabs shall be a minimum t12@1000mm c/c; and minimum ties in walls shall be t8@1000mm c/c.

3.5. Clear cover to reinforcement including links, stirrups, and ties shall be as follows:

A) structure in contact with ground

Footings = 55mm

Wall and column = 50mm

Ground beam = 50mm

Slab at ground level = 50mm

B) super structure

Columns = 40mm

Beams = 35mm

Slabs = 30mm

Walls = 40mm

All concrete elements in contact with water/splash zone = 75mm

3.6. Reinforcement bars to be cut, bent or adjusted to clear all openings and interfering structures to suit at site to the approval of the consultant or engineer.

3.7. For holes in slabs up to 300x300 sq., reinforcement is to be cut and replacement bars fixed adjacent to the hole extending 50x bar diameter beyond the hole.

4. Fire resistance

4.1. All structural concrete members between units on boundaries are designed to maintain fire resistance of 2 hours.

Structural Notes
1:20

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DRAWN:	APPROVED:
Aishath Shadhny A	Ihsaan Waheed

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Structural Notes

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Date : Monday, October 17, 2022

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5. Cracking

5.1. The cracking of the structural concrete in general is restricted to 0.30mm.

6. Earthwork & foundations

6.1. Foundation detail design is based on the assumed safe allowable bearing capacity has been taken as 150kpa. The actual requirement for the foundation design is to be verified based on final geotechnical report for the project.

6.2. Excavations for foundations down to formation level shall be carried out by mechanical means, except for the last 100mm of excavation which is to be carried out by manual methods and recommended by geotechnical consultant.

6.3. The formation level of foundation is to be inspected and approved by the geotechnical engineer before commencement of the work.

6.4. Engineering fill (unless specified otherwise as a higher quality material) shall be selected well graded granular material approved by the engineer with a minimum soaked cbr of 15% compacted not exceeding 250mm in layers to 95% maximum dry density as per geotechnical investigation report recommendations in accordance with the specification. However, a minimum cover of 250mm back fill material shall be provided at the top of foundations below the blinding to cast against.

6.5. Efficient site drainage during and after construction of the project should be provided by the contractor.

6.6. Site inspection by a qualified engineer should be carried out after completion of the excavation works and after preparation of the proposed foundation level to ensure that the contact surface is free from any loose/soft layer and properly prepared for the foundation.

7. Concrete workmanship

7.1. All concrete without plaster shall be fair finish unless noted otherwise.

7.2. All concrete surface to have plaster are to be hacked to have an adequate surface key.

7.3. All concrete is to be cured by an approved method-water pounding or curing compound.

7.4. All types of construction joints in concrete shall be at a specified locations and approved by the engineers.

7.5. All substructure concrete works shall be protected with water proofing as per standard details & specifications.

7.6. All concrete shall be compacted using a mechanical vibration process.

7.7. 25x25mm chamfers to external corners and edges shall be provided in accordance with specifications and directed by the engineer.

8. Structural steel

8.1. All structural steel works shall be in accordance with bs 5950 parts 1 to 9 or ec-en3.

8.2. Maximum dimension of holes shall be in accordance with bs 5950 : part 1 : 2000 table 35, unless indicated otherwise.

8.3. The contractor shall provide whatever temporary ties or bracing necessary for a safe and proper erection of the steel structures.

8.4. Welding shall comply with bs en 1011-1: 2009, bs en 1011-2 : 2001 and bs bs en 1011-8 : 2004.

8.5. Contractor shall do a detailed design for aluminum shades and to submit full design calculations and detailed shop drawings for all steel sections and connections to the engineer for approval prior to commencement of fabrication.

8.6. All rolled products and plates shall conform to bs en 10025-2. Cold form welded structural hollow sections shall conform to bs en 10219-1. Hot finish hollow sections shall conform to bs 10210-1 unless noted otherwise on drawings.

8.7. All connections shall be made with minimum 2nos. Galvanized grade 8.8 to bs 3692 with a minimum diameter of 20mm and minimum yield strength of 627mpa and minimum ultimate strength of 765mpa and electrodes to bsd 639, unless noted otherwise.

8.8. Unless noted otherwise on the drawings, all connections shall be in accordance with the following minimum requirements:

A) all welds shall be at least 6mm continuous fillet welds all around.

B) all structural bolted connections should be galvanized minimum 85 micron and with a minimum of 2 bolts per connection. Purlin bolts shall be in accordance with the suppliers recommendations.

C) all gusset plates shall be at least 4mm thick.

D) all cap plates shall be at least 4mm thick.

E) all base plates shall be at leat 4mm thick.

8.9. As minimum all structural steel members shall be shot blasted to sa 2.5, galvanized, primed & painted as below unless noted otherwise:

A) hot galvanization (dft 200micron)

B) primer coat to contain 2 coats of zinc rich epoxy primer (dft 75 micron)

C) top coat to contain 2 coats of polyurethane enamel paint (dft 125 micron)

8.10. All structural steel work shall be corrosion protected in accordance with the structural specifications.

8.11. All steel should conform to the following:

A) shs, rhs and chs sections bsen 10210 s275 fy=275mpa

B) all angles and channels u.n.o bsen 10025 s275 fy=275mpa

8.12. All steel columns to be central on grids or equally spaced between grids unless noted otherwise.

8.13. All steel beams to be central on grids or equally spaced between grids unless noted otherwise.

8.14. All steel dimensions are to center line of section unless noted otherwise.

8.15. All bracing is to be set out on the centroids of bracing members and on the center line of beams and columns unless noted otherwise.

8.16. Where bracing is shown offset from center of members the contractor shall design and provide all necessary stiffeners.

8.17. Contractor to provide all leader railing as required to support free edges not trimmed with cold formed or mild steel work. To be provided in accordance with architect's drawings.

8.18. Location of any connections, splices not shown in the drawings shall be submitted with design for engineer's approval. No splices shall be made unless shown in the drawings and as approved by the engineers.

8.19. Contractor shall do a full coordination between architecture and structural drawings for the steel support for shade elements, locations and sizing connections with structural concrete elements and sections. Care shall be taken to prevent dissimilar metal corrosion.

9. Masonry blocks

9.1. Design and construction of all blocks shall comply with bs 5628 : parts 1.2 & 3 : 1992 or en-ec6. The contractor shall submit a construction method statement prior to commencing the works.

9.2. Wall ties in accordance with bs 1248 - cp 121 part 1.73.

9.3. All block wall joints to manufacturers specifications.

9.4. All block work walls are to be considered as non-load bearing partitions unless noted otherwise in drawings.

9.5. Block walls shall be reinforced horizontally and vertically as per manufacturers requirements.

9.6. Masonry wall mechanical properties

young's modulus = 3.5e+006 kn/m2

poisson's ratio = 0.25

density = 20kn/m3

min.compressive strength = 3.5 mpa

10. Design & loading

10.1. Consultant design

design and construction of reinforced concrete structural members, shall be in accordance with bs8110 & ec-en2 and the structural steel members to bs 5950 & ec-en3.

10.2. Contractor design

the contractor is responsible for the design of all temporary works. (shoring for excavation, signage... Etc) and the following items of permanent secondary works. (subjected to engineers review and approval)

a) precast concrete elements

b) architectural facade and support steelwork

c) non load bearing feature columns

d) all secondary steel works

e) structural steelwork connections

f) structural support for mep services

g) shade structures

h) balustrade and crash barrier

i) structural glass

j) interior signage

the design of the primary structure is considering the interfaces with these structures) loading reactions, opening...etc.) And were detailed to accommodate these elements into the design.

the contractor shall submit a full detail design for the wall and boundary wall foundation, also the contractor to do

full coordination between the structural foundation for villas (including the water tanks, and the boundary wall for clashes, the contractor shall produce shop drawings for

the boundary walls for engineer's approval.

10.3. Loading

a) superimposed (dead loads & live loads) as per bs 6399 or en-ec1.

b) self-weight & densities as per bs 648 or en-ec1.

c) wind loads as per bs 6399 or en-ec1 (mean wind speed = 25m/s).

11. Timber

11.1. All timbers shall be in accordance with bs 5268 or ec-en5

11.2. All timber members sizes are indicative. Contractor shall coordinate with supplier and submit detail designs for all prefab timber structure for approval.

Structural Notes 2
1:100

#	REVISION	BY	APP	DATE

Project :
Design Of Cable Landing Data Station Facility

Client :
Ocean Connect Maldives Pvt Ltd

Prepared by

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Page Title
Structural Notes

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Notes:

1. First stirrups location shall be s/2 from the face of the column/ support.

2. Place one b bar in each bottom corner and one t bar in each top corner of the stirrup cage.

3. Condition shown is at columns Where beams and girder intersect, use typical interior girder section.

4. All bottom bars and top bars shall be placed in one layer unless two layers are noted in the beam schedule. Where to layers are noted provide25 mm clear between layers If two layers are noted place bar b1 above bar b and bar t above t1.

5. Length of exterior top bars are given only when straight bar occurs otherwise hooked bars are required.

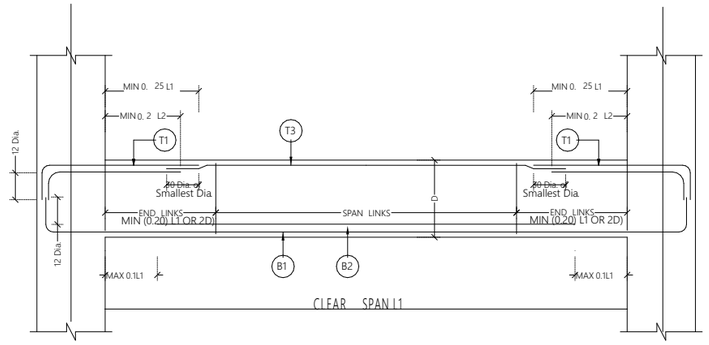
6. Where a member is supported by a column, but has another member running perpendicular to it at the same column, the first stirrup spacing shall start from the face of the column and not from the face of the transverse beam

7. Top & bottom reinforcement lapping of both main rebars can be ignored if the main rebars at left and right side of lapping location are identical

8. For 'column width less or equal2m l*="column width'/2. For 'column width' greater than 2m, l*=1m

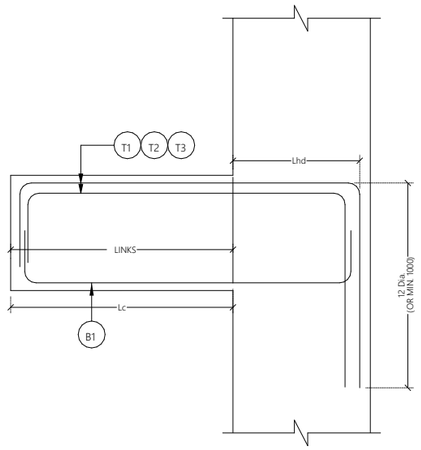
Supplementary abbreviations

B1 - continuous bottom bars
B2 - additional bottom bars
CE - cantilevered end
D - depth of member, mm
EE - each end
EF - each face
FL - full length
EW - each way
H - aci standard hook
ITB - interior top bar
LE - left end
LG - length
P - paired stirrups
RE - right end
REM - remainder
S - side bars
T1 - top bars at internal supports
T2 - top bars at mid-span
T3 - top bars at end support
W - width of member, mm



SIMPLE BEAM DETAILS

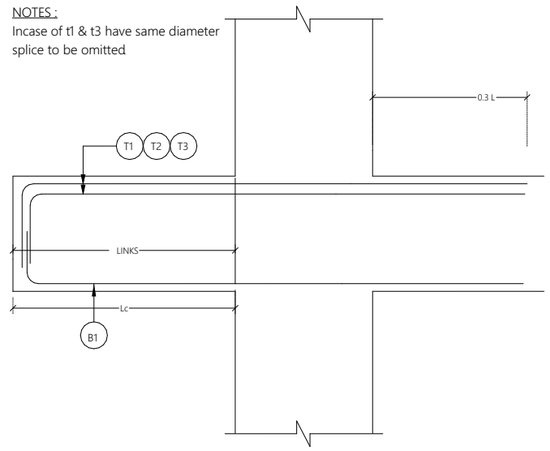
NTS



TYPICAL CANTELEVER BEAM FROM COLUMN

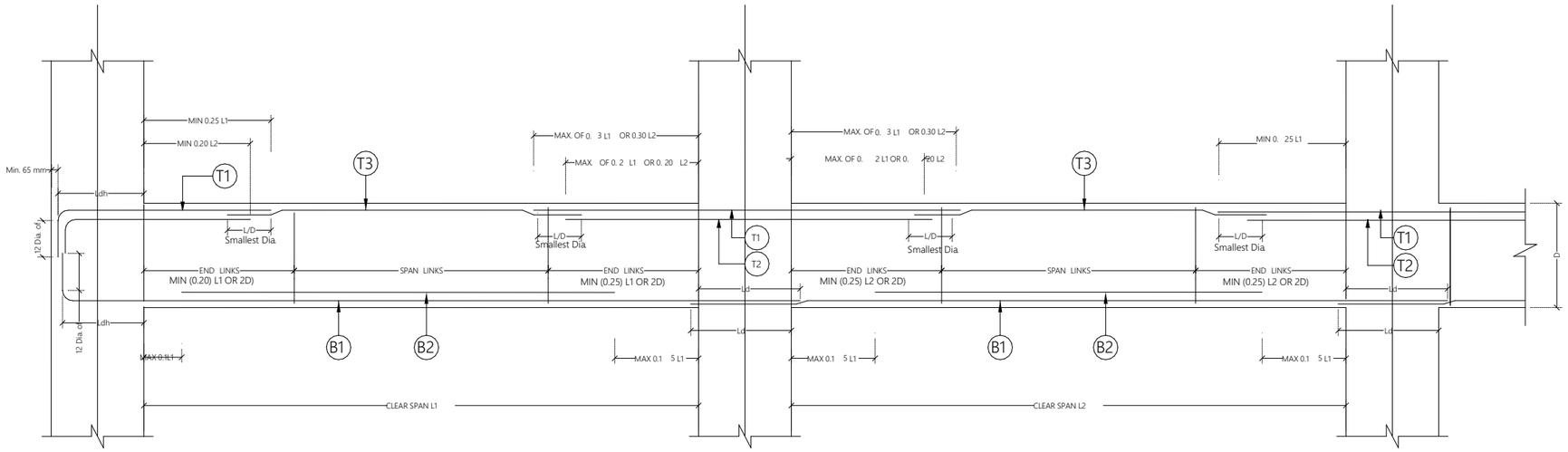
NTS

NOTES :
Incase of t1 & t3 have same diameter splice to be omitted



TYPICAL CANTELEVER BEAM CONTINUOUS

NTS



CONTINUOUS BEAM DETAILS

NTS

Structural Notes 3

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Structural Notes

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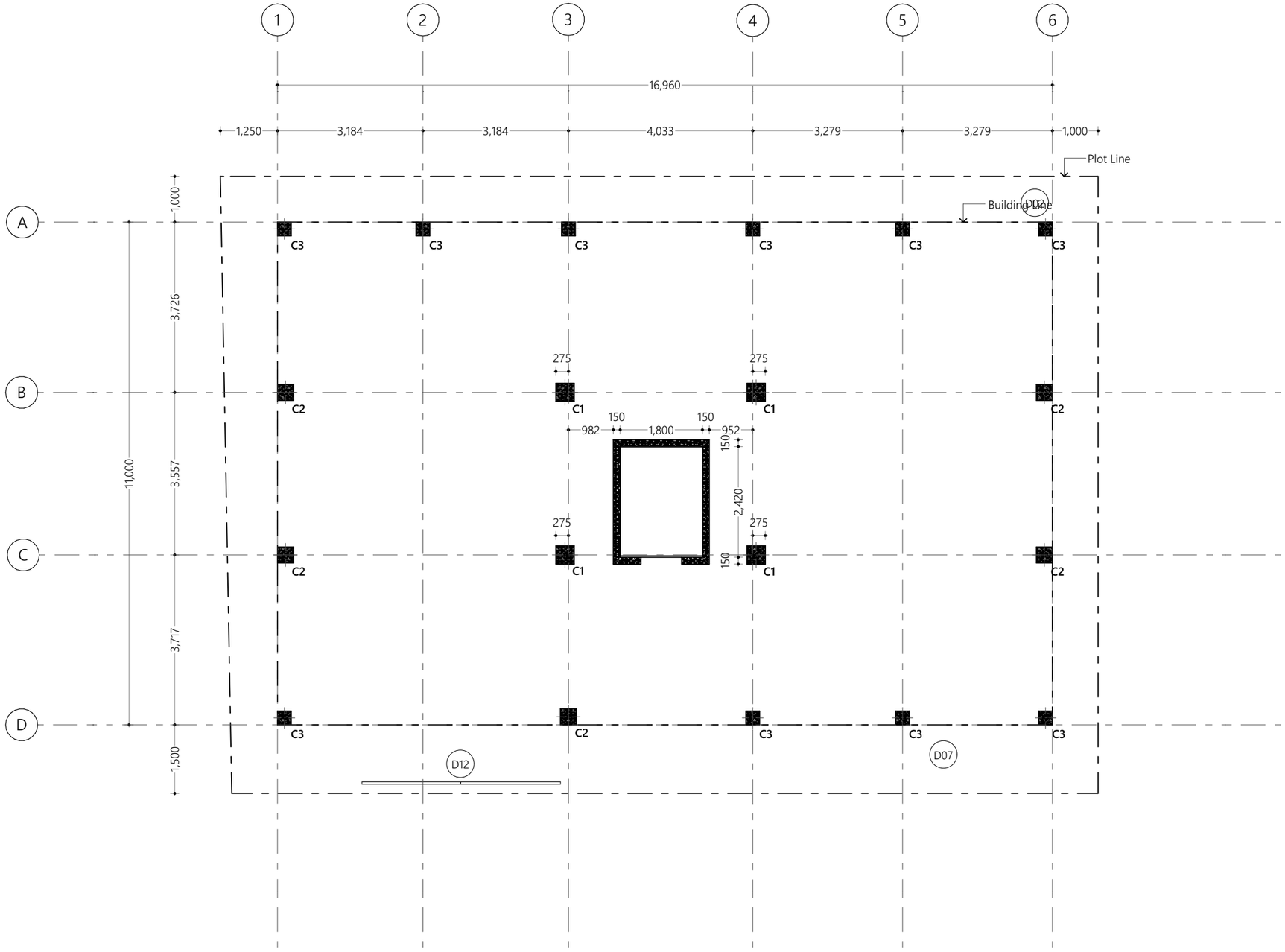

Column Layout
1:100

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Page Title
Column Layout

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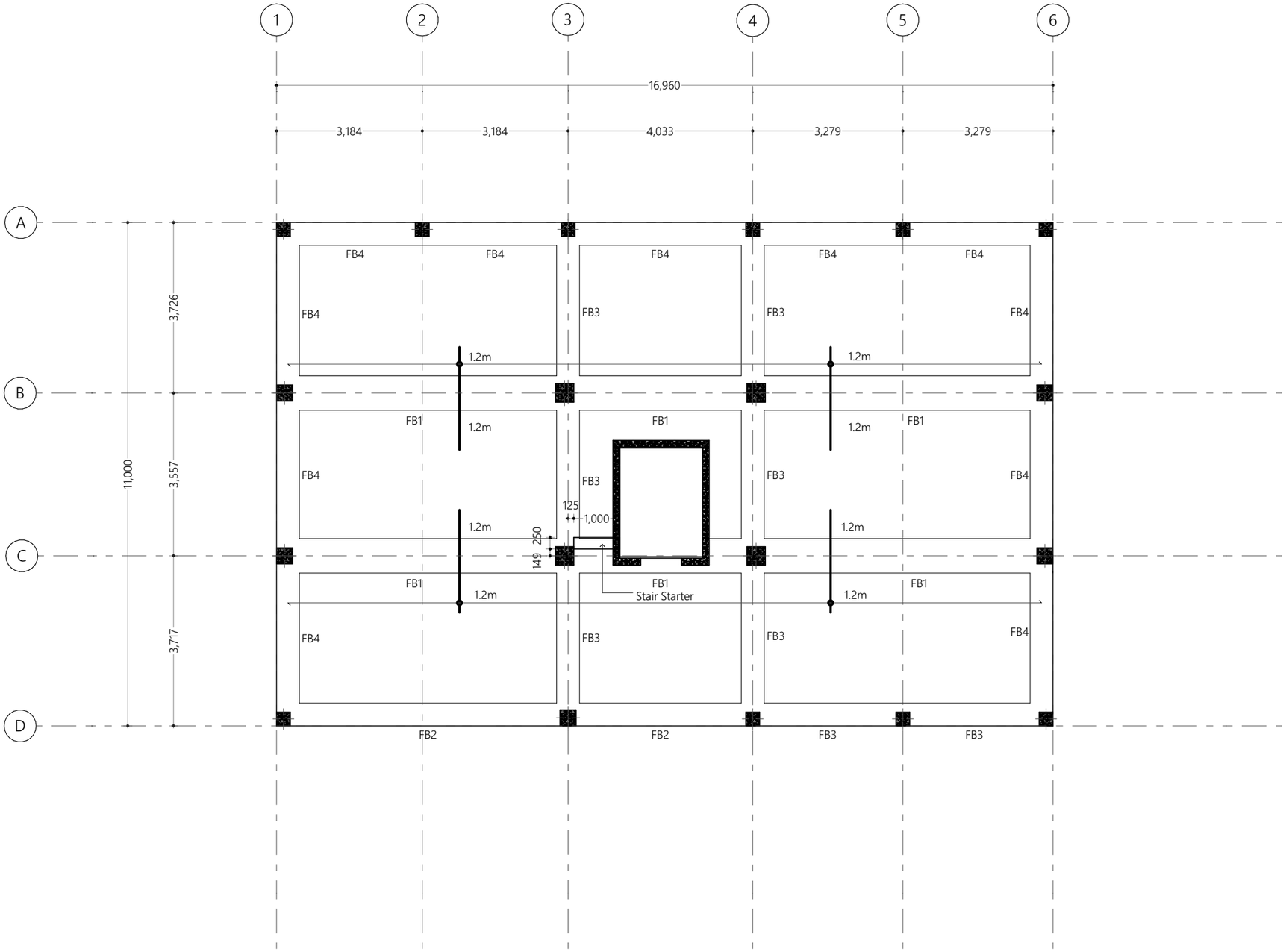

Foundation Details:

Foundation Depth - 1500mm

Raft thickness - 400mm
Bottom reinforcemnt - T16-150 C/C B/W (not shown)
Bottom additional reinforcement - T16-150 C/C (as shown)
Top reinforcement - T16-150 C/C B/W (not shown)
Provide cover - 55mm

Foundation Plan
1:100

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Page Title
Foundation Plan

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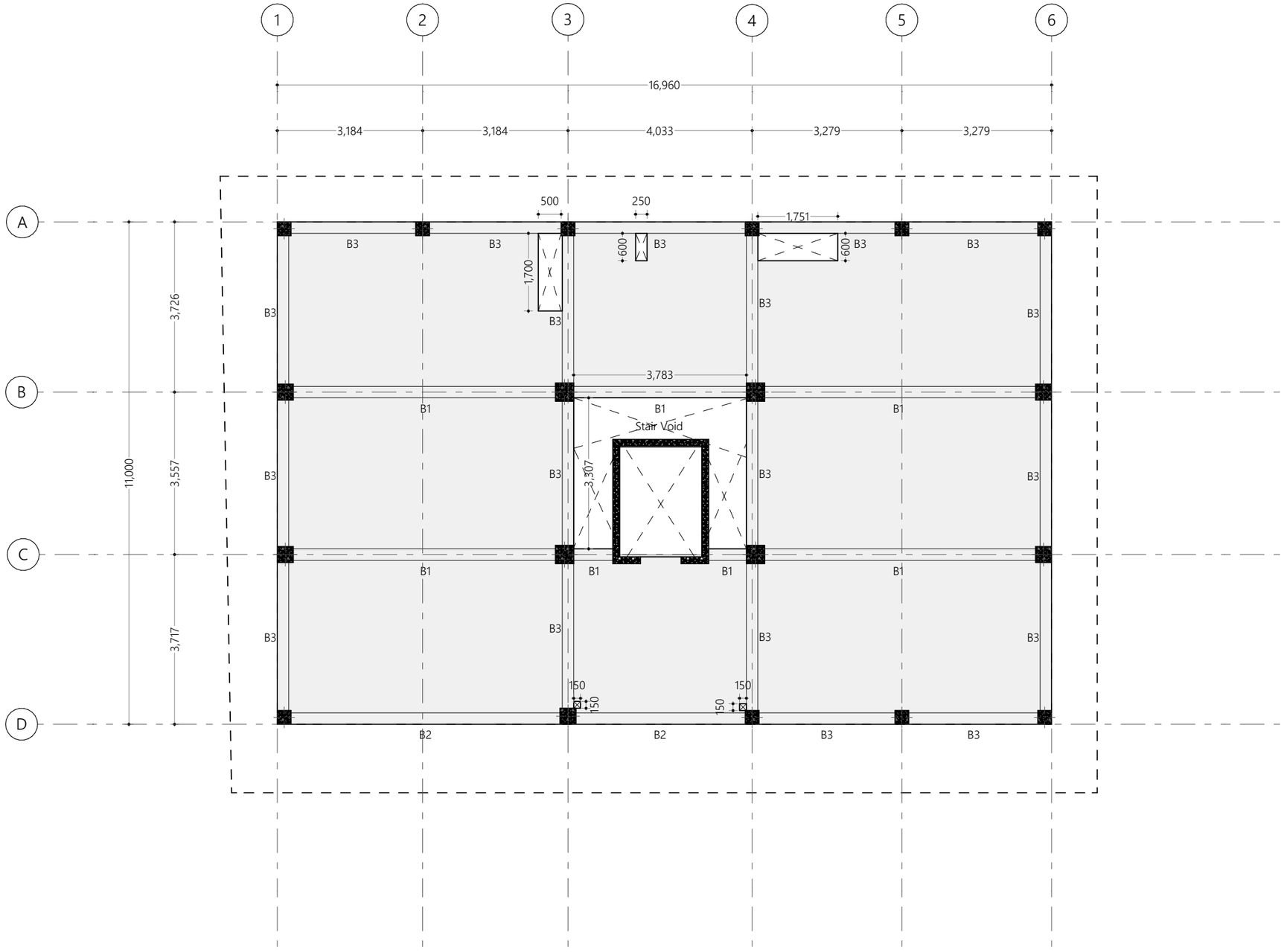

First-Terrace Floor Beam Plan
1:100

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First Floor Beam Plan

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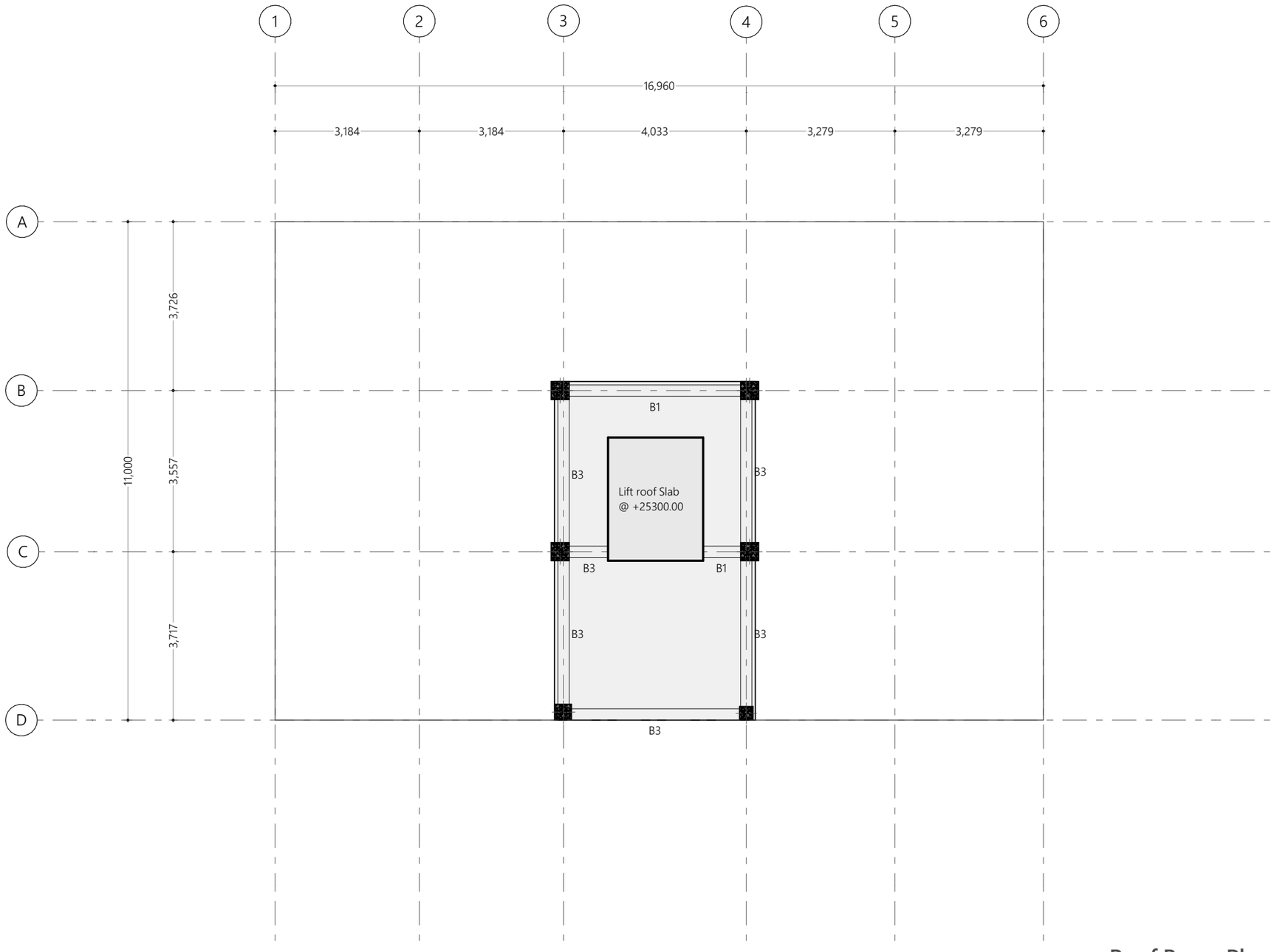

Roof Beam Plan
1:100

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Roof Beam Plan

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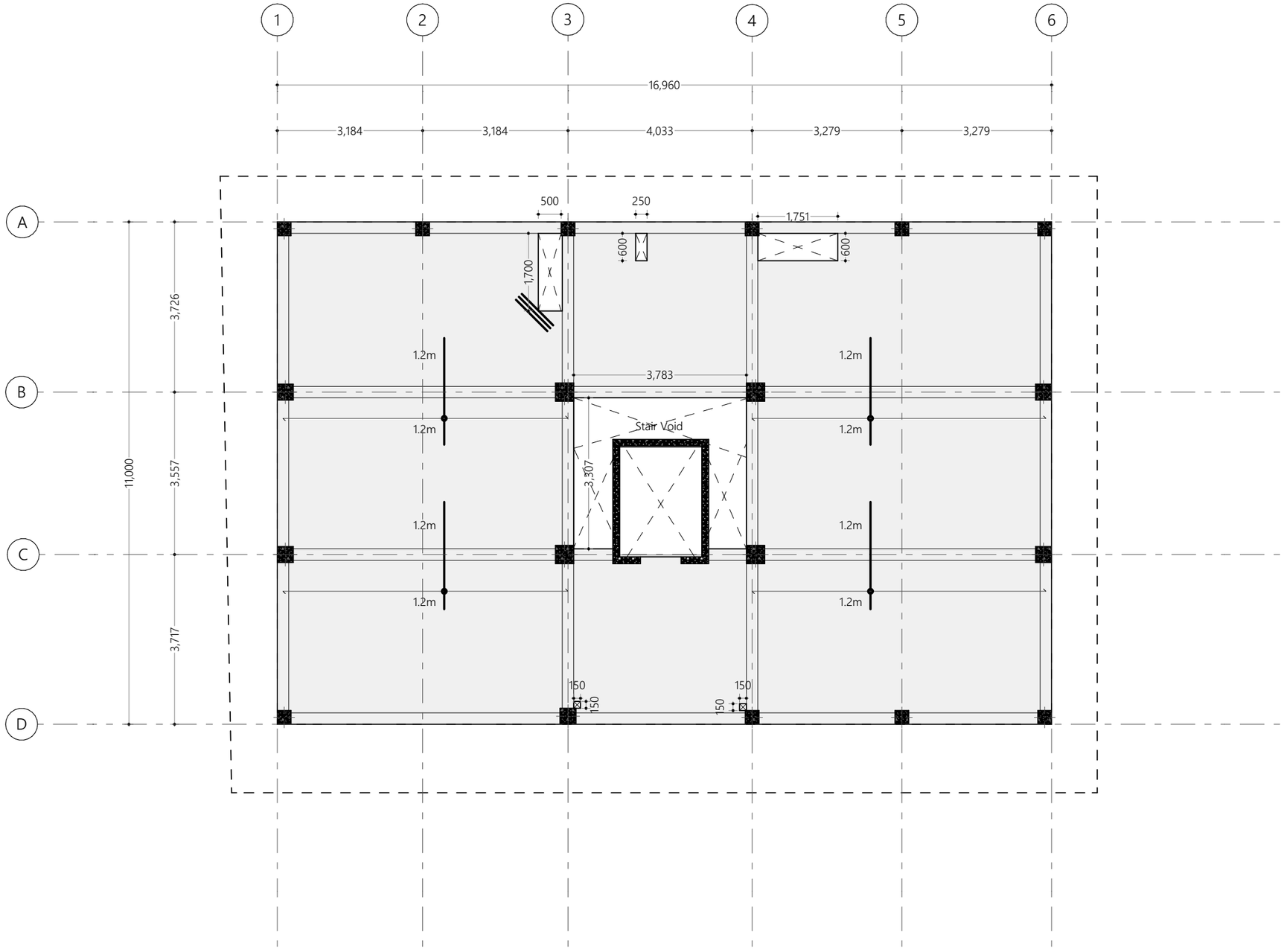

First- Terrace Floor Slab Reinforcement Plan
1:100

Notes:

Slab thickness: 175mm

Bottom Reinforcement - T10@100 C/C B/W (not shown)
Top Reinf. - T10@150C/C B/W (not shown)
Top additional reinforcement - T10@150C/C (as shown)
Top distribution steels - T10@150 C/C (unless stated)
Corner bars - 3T10@45C/C T&B
Provide cover - 40mm BOT, 30mm TOP, 40mm SIDES

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Page Title
First - Terrace Floor Slab Plan

Scale : 1:100

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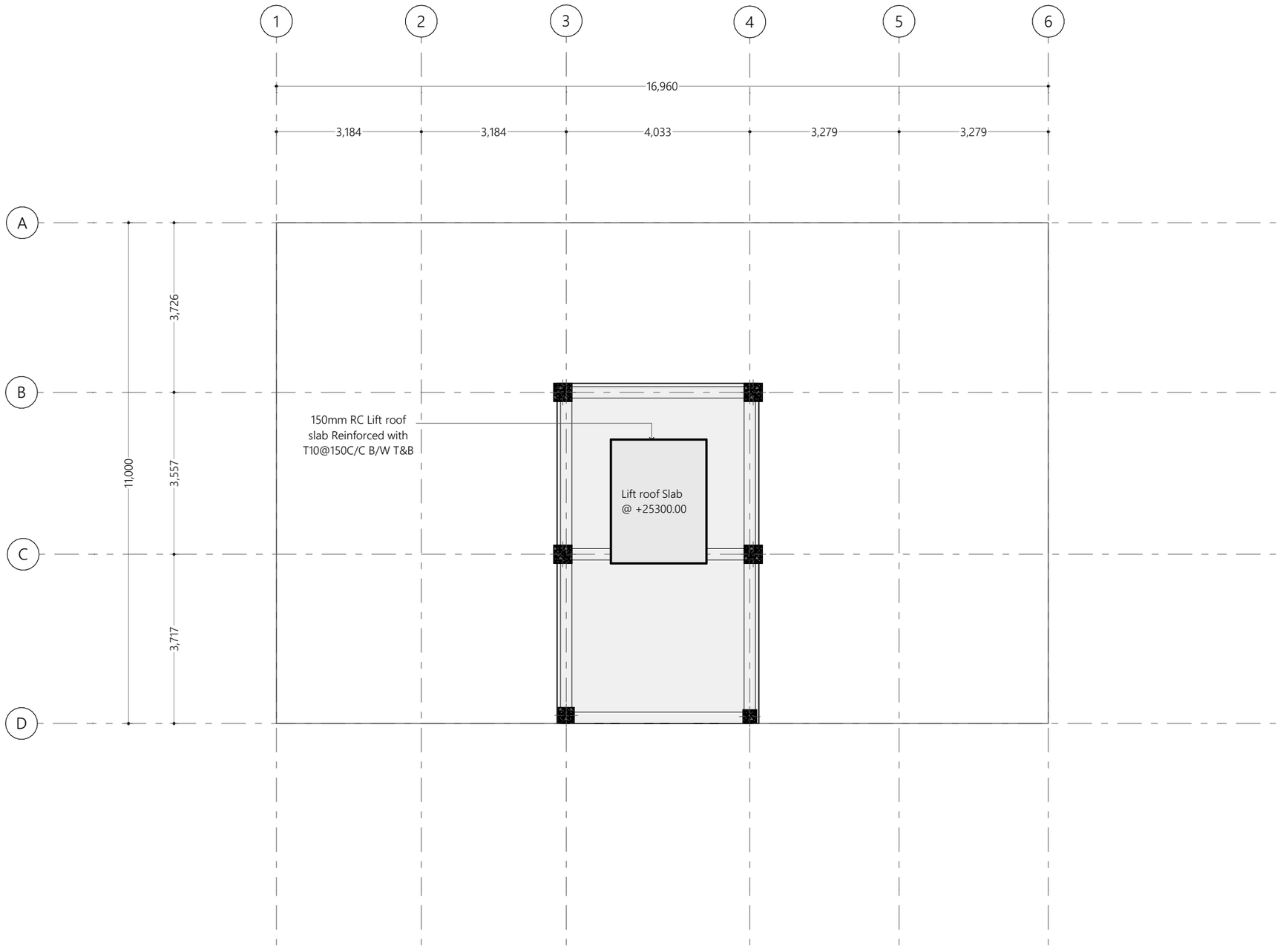

Roof Slab Reinforcement Plan
1:100

Notes:

Slab thickness: 175mm

Bottom Reinforcement - T10@100 C/C B/W (not shown)
Top Reinf. - T10@150C/C B/W (not shown)
Top additional reinforcement - T10@150C/C (as shown)
Top distribution steels - T10@150 C/C (unless stated)
Corner bars - 3T10@45C/C T&B
Provide cover - 40mm BOT, 30mm TOP, 40mm SIDES

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Roof Slab Plan

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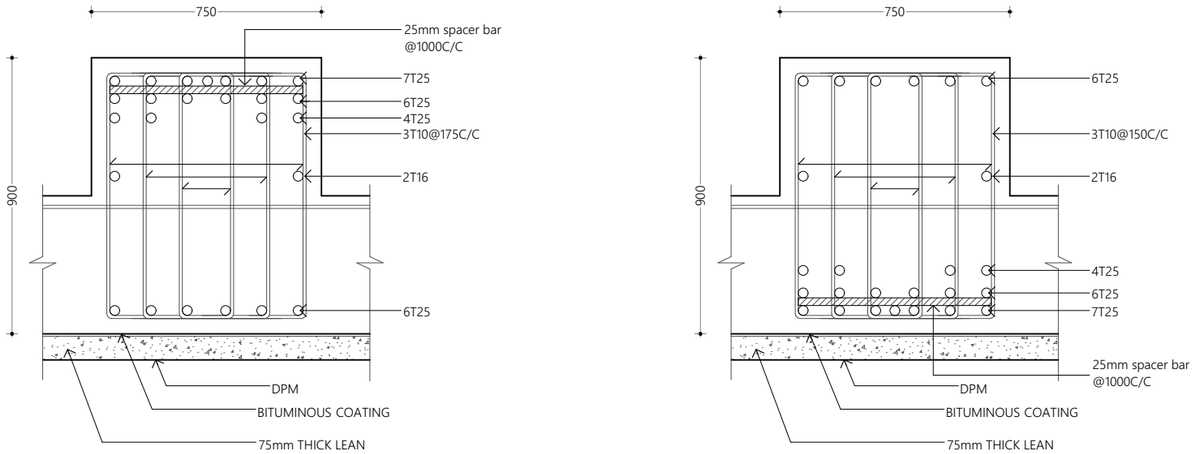
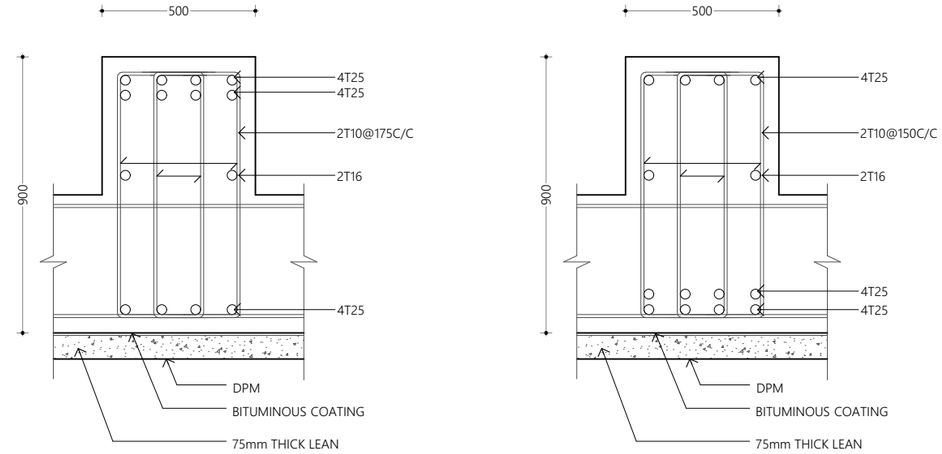
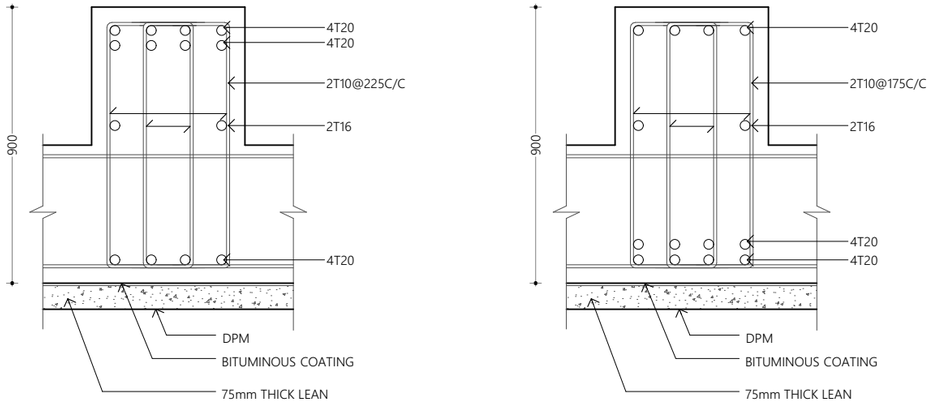


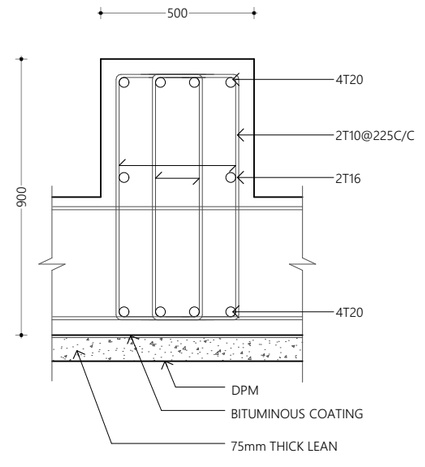
Mid Span — **FB1** — Support



Mid Span — **FB2** — Support



Mid Span — **FB3** — Support



FB4

Notes:

Cover to foundations = 55mm
Cover to floor slabs =40mm
Cover to floor beams =35mm
Cover to columns = 40mm
Laps = 45Dia (Dia=Bar Diameter)
Mid bars = 0.85 x Span
Sup bars = 1/3 x Span
Concrete grade= C30
Lean concrete mix = 1:2:5

Foundation Beam Details

1:20

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Page Title
Structural Details 01

Scale : 1:20

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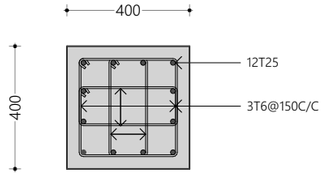
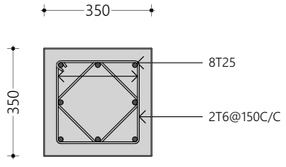


C1

(GROUND FLOOR)



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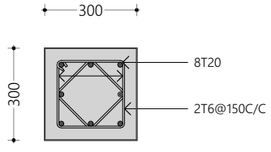

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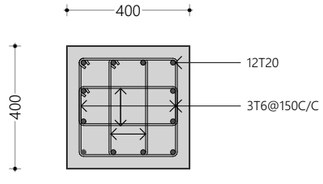
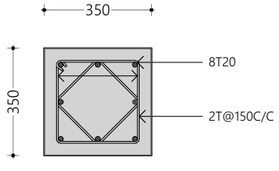


C1

(FIRST FLOOR)



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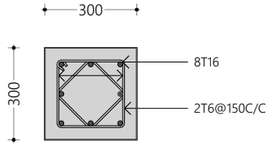
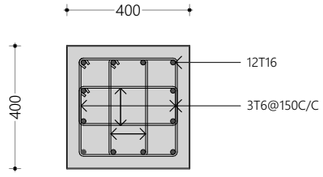


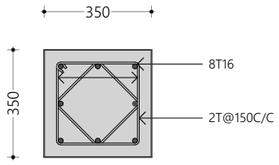
C3

(FIRST FLOOR)



C1

(SECOND FLOOR & ABOVE)



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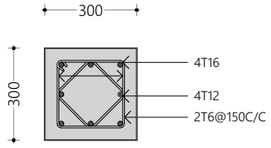
(SECOND FLOOR & ABOVE)



C3

(SECOND FLOOR & ABOVE)

Column Detail
1:20

#	REVISION	BY	APP	DATE

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Client :
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Page Title
Structural Details

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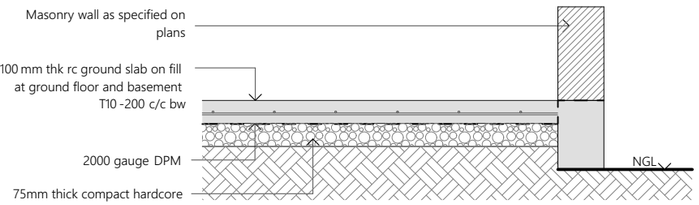
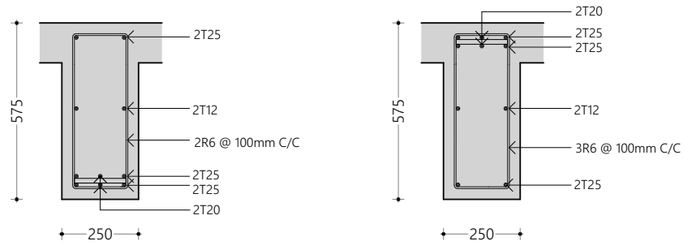


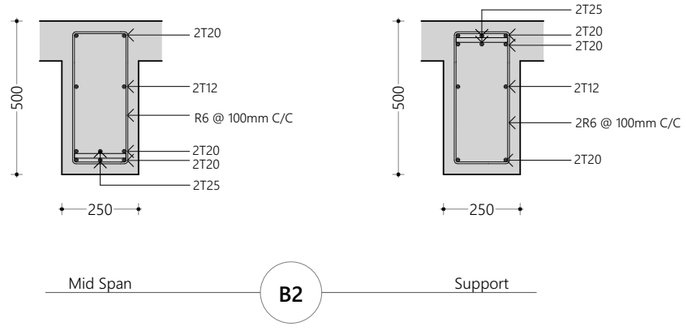
Note :

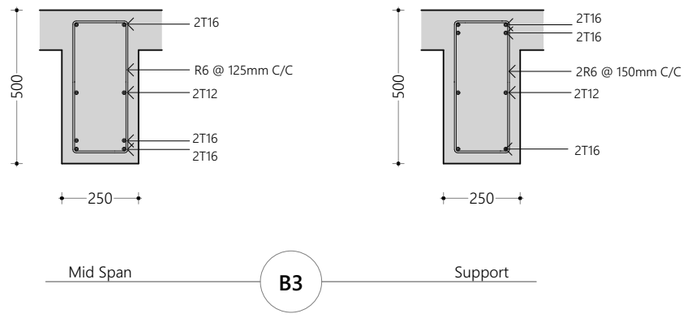
All cover blocks shall be casted using grade C 25 / 30 concrete with 5-10 mm aggregates

For slab, rebar spacer chairs spacing shall be minimum 1m spacing or 1no. per 1 sqm

Typical Ground Slab Construction Detail
1:20







Beam Details
1:20

#	REVISION	BY	APP	DATE

Project :
Design Of Cable Landing Data Station Facility

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Page Title
Structural Details

Scale : 1:20

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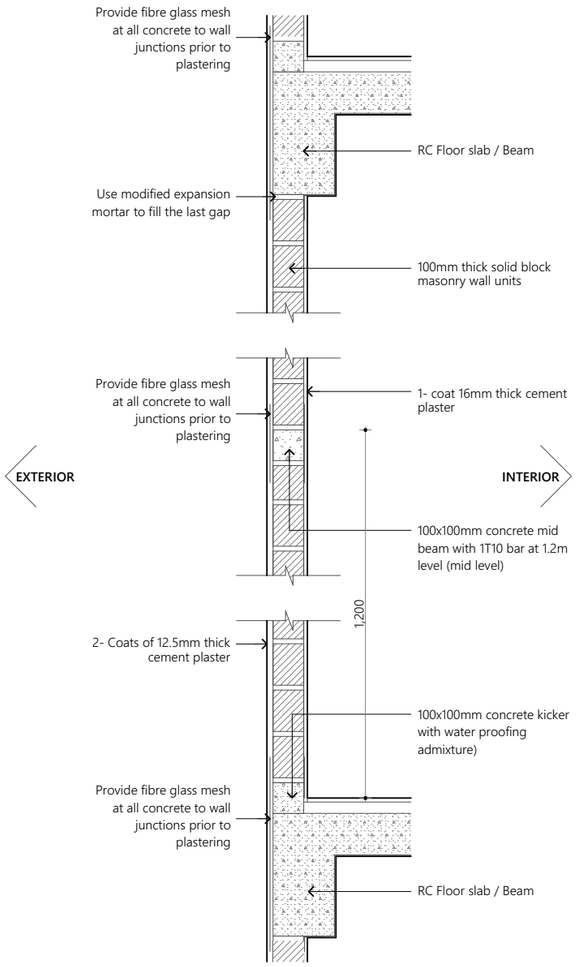
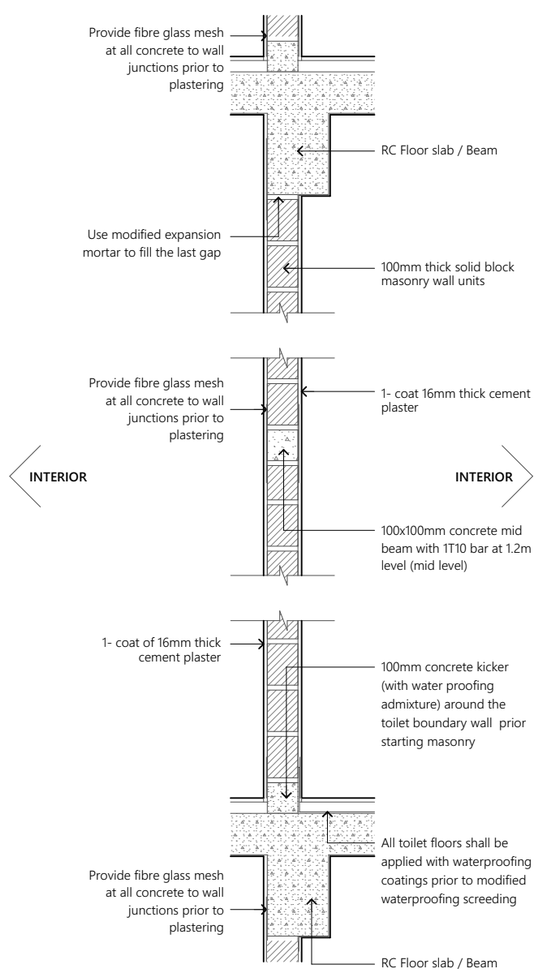
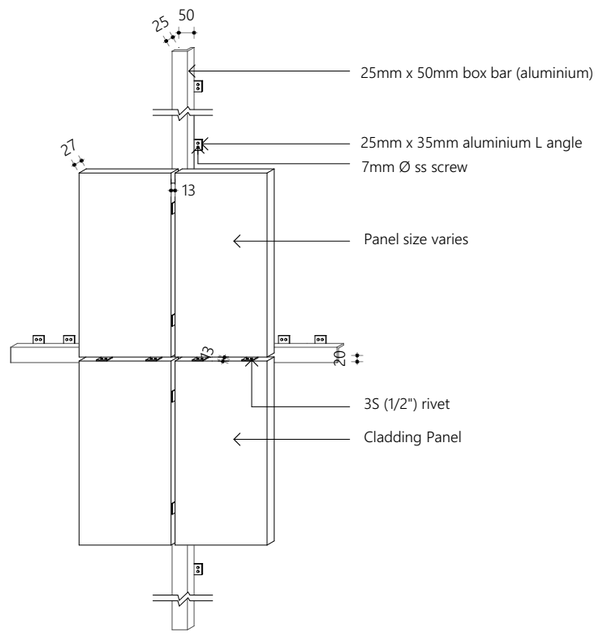
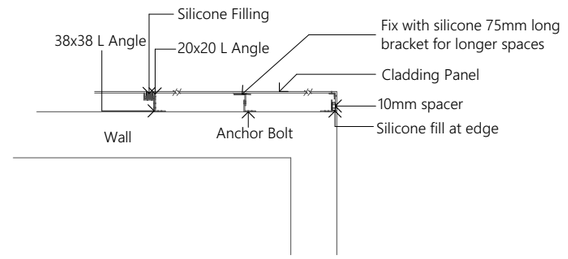


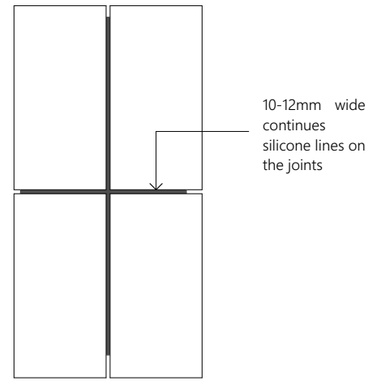




WALL CLADDING FIXING DETAIL



TYPICAL SECTION (including wall edge)



Note:

* Concrete surfaces shall be thoroughly cleaned with water & applied with mastercast 141 or equivalent bonding mortar prior to plastering.
* Plastering mortar mix shall be 1:4 (cement: sand) ratio.
* Plaster mix shall be modified using fibre wool & mastercast 141 or equivalent plasticisers as per manufacturer's specification.
* Height of placing blocks shall be maximum 1.2m per day.
* After initial coat of plastering, water curing shall be provided for minimum 3 days & after final coat water curing shall be provided for 7 days.

Wall Construction Detail
1:20

Cladding Detail
1:20

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Page Title
Wall Construction Detail

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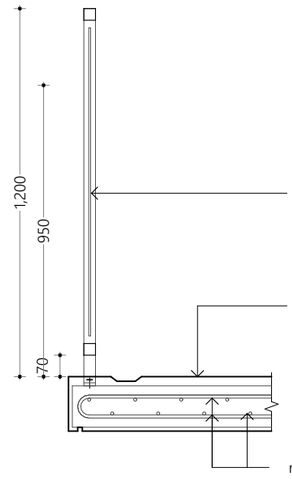
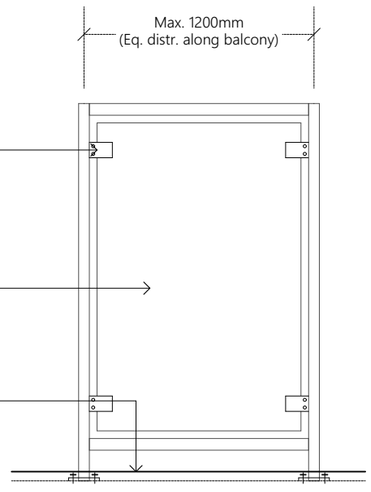
SECTIONAL VIEW

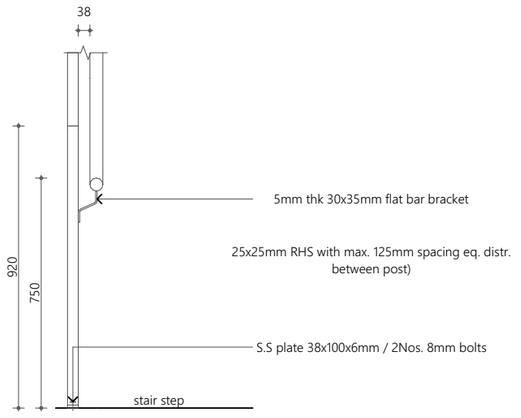


ELEVATION VIEW



1. Post, top line and bottom line material to be 38X38mm RHS

Balcony Detail
1:20

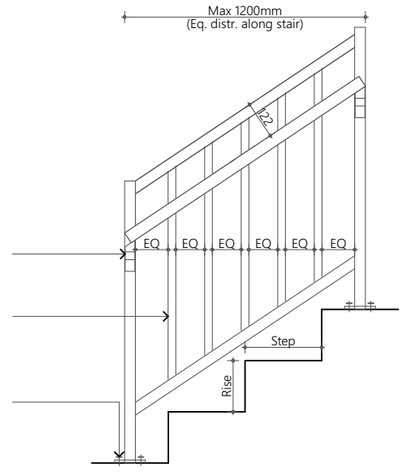


1. Post, top line and bottom line material to be 38X38mm RHS

2. Handrail material to be 38mm Ø S.S or varnished timber

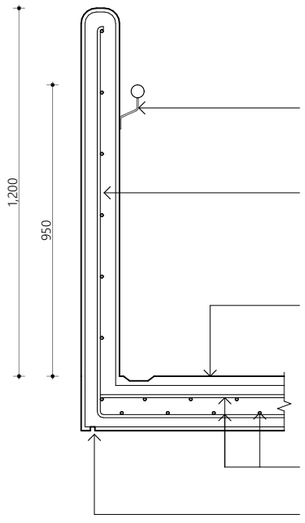
3. Step: 250mm

4. Raise: 148mm

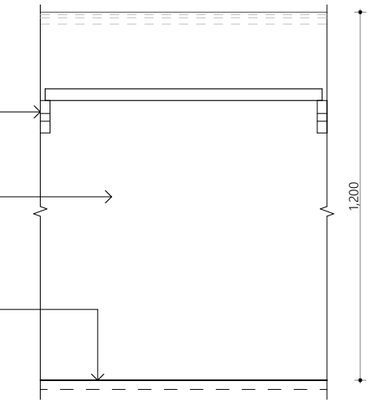


Staircase Railing Detail
1:20

SECTIONAL VIEW

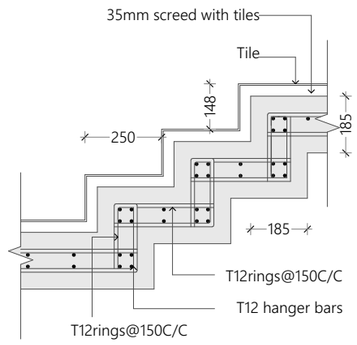


ELEVATION VIEW



1. Handrail material to be 38mm Ø S.S

1.2m High Wall Detail
1:20



Staircase Reinforcement Detail
1:20

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Staircase Detail

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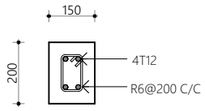
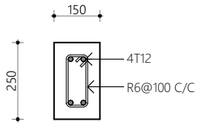


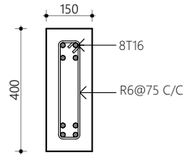
LT1

Lintels over all doors, windows
(that does not rise to beam level)
LT1 for windows **< 1.5m**



LT2

Lintels over all doors, windows
(That does not rise to beam level)
LT2 for windows **> 1.5m & <3.0m**

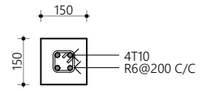


LT3

Lintels over all doors, windows
(That does not rise to beam level)
LT3 for windows **> 3.0m & <6.0m**

Lintel Beam Detail

1:20



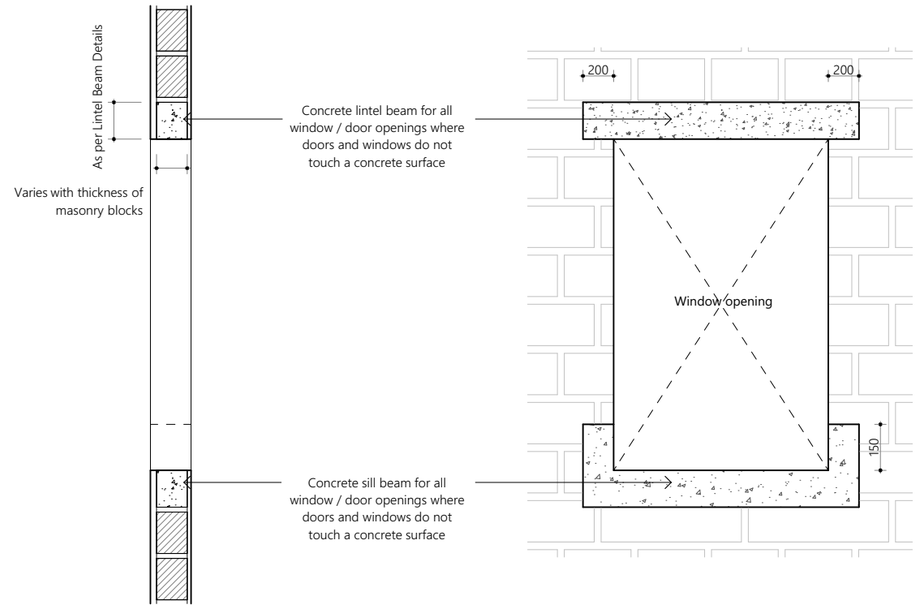
LB1

Sill Beam Detail

1:20

Boundary Wall Detail

1:20



Window Construction Detail

1:20

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Page Title
Window Construction Detail

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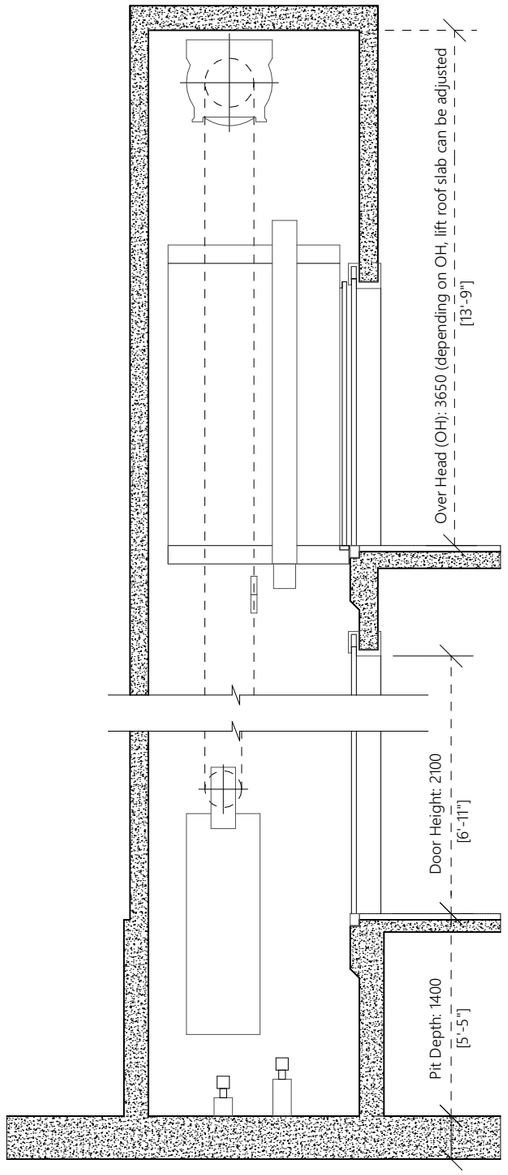
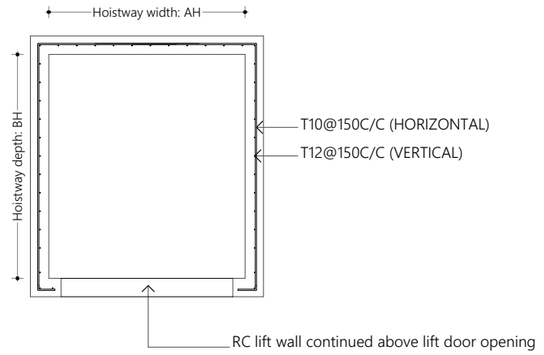
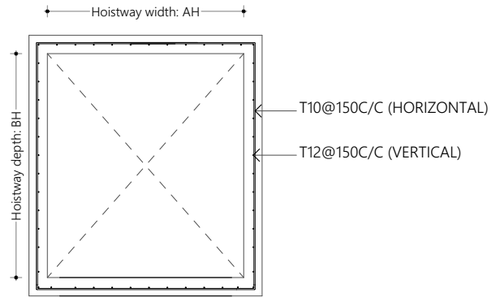


SECTIONAL VIEW



PLAN VIEW (above ground)



PLAN VIEW (below ground)

Notes:

Lift specifications and sizes to be verified by the manufacturer

MITSUBISHI LIFT SPEC							
Code Number	Rated speed (m/sec)	Rated capacity (kg)	Door type	Entrance width (mm) JJ	counter weight position	Car internal dimensions (mm) AA x BB	Hoist way dimensions (mm) AH x BH
P14	1.0 / 2.5	1050	CO	1100	Side	1100 x 2100	1800 x 2420

LIFT SPECIFICATIONS

1:50

Lift Detail

1:50

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Lift Detail

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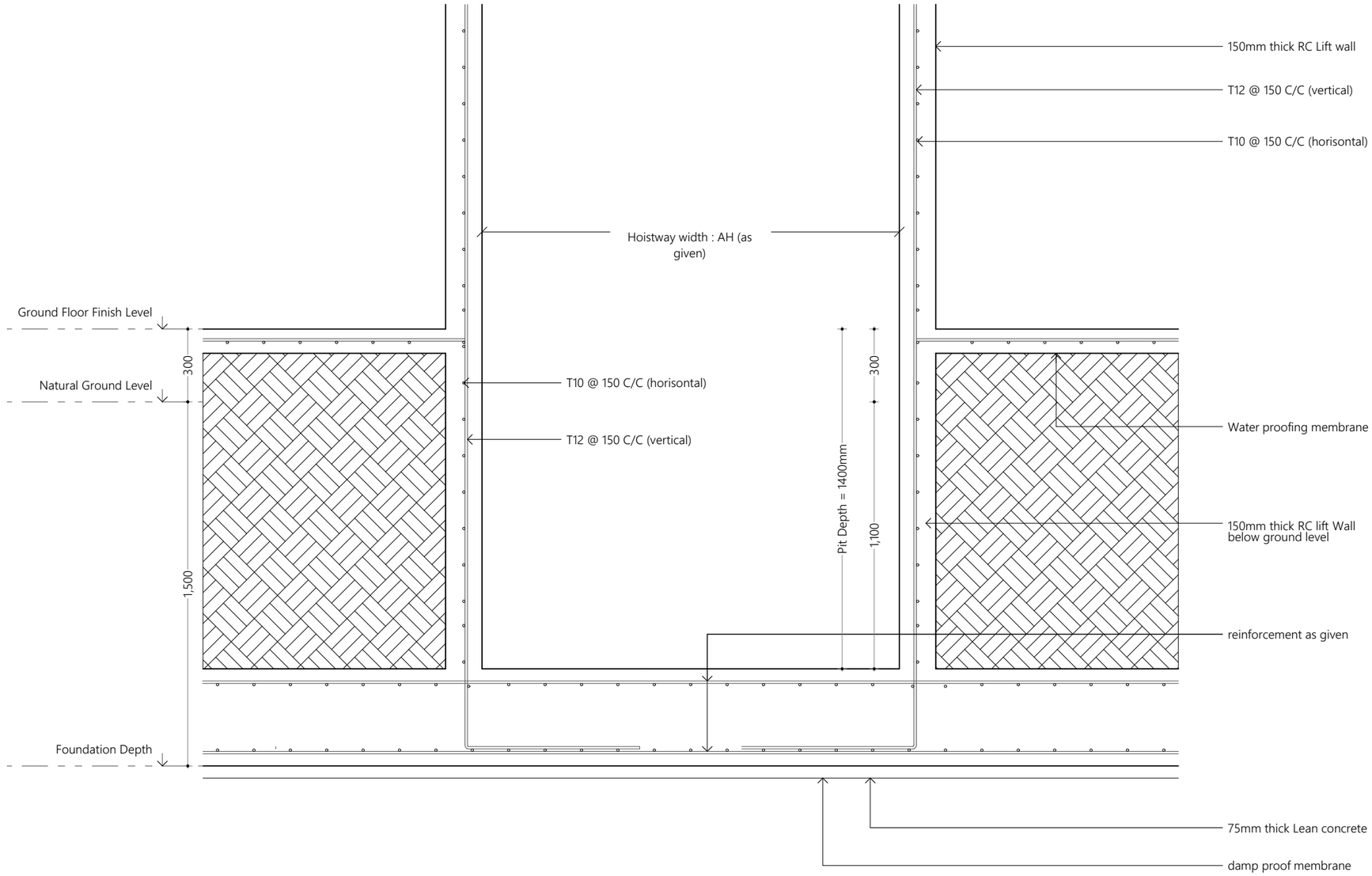

Lift Reinforcment Detail

1:20

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Lift Detail

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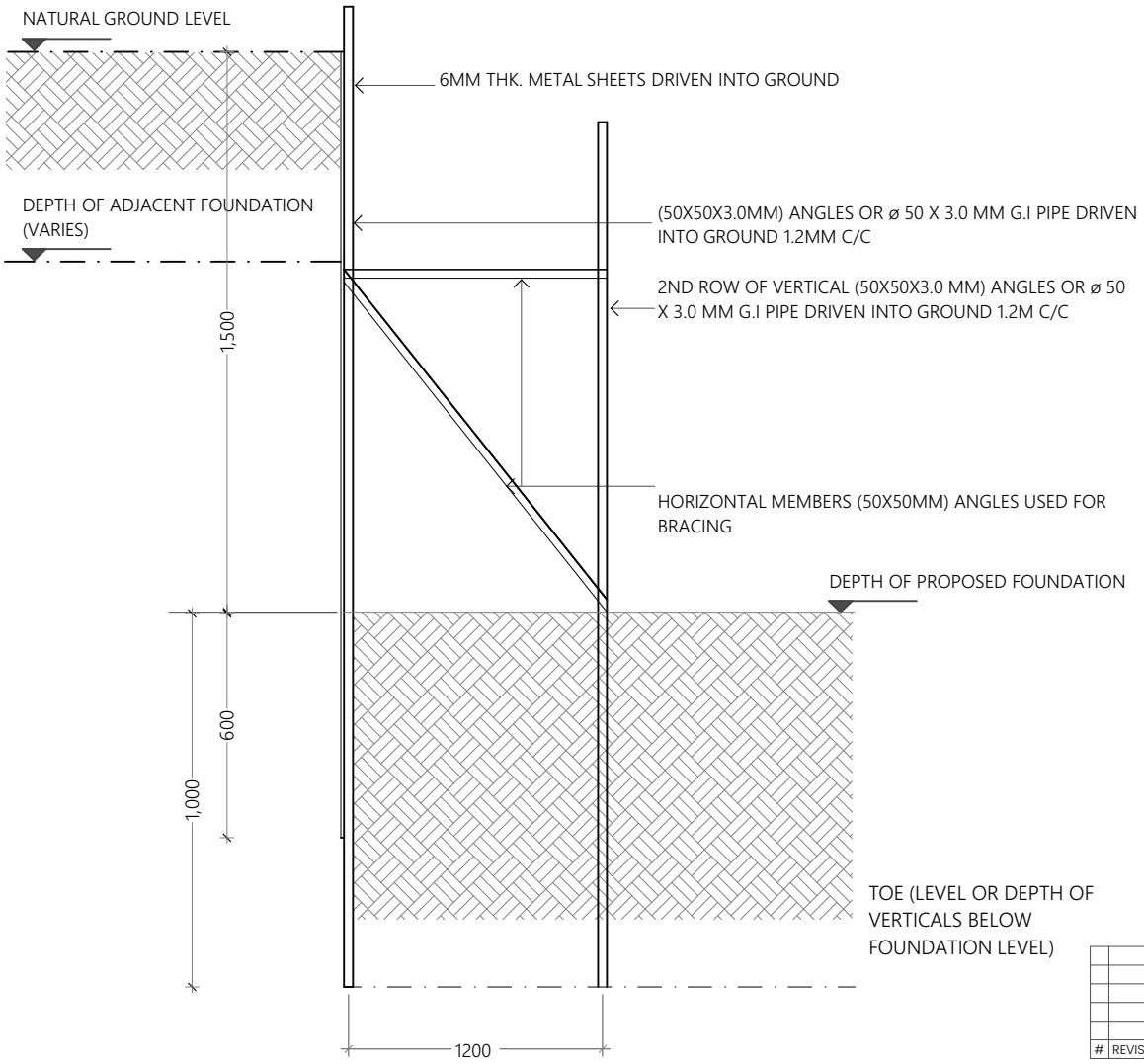
PROPOSED METHODOLOGY FOR PROTECTION OF ADJOINING FOUNDATIONS DURING EXCAVATION

PROJECT	CONSTRUCTION OF 06 STOREY BUILDING AT CABLE LANDING DATA STATION FACILITY
PROPOSED FOUNDATION DEPTH	1500MM FROM THE NATURAL GROUND LEVEL



SCHEMATIC DIAGRAM SHOWING THE PROTECTION METHOD

A 600mm wide 1200mm long pit can be excavated at a time along the adjoining buildings. The foundation can be supported by construction of 150mm thick solid block retaining wall, which stats at 300mm below the proposed foundation depth up to the underside of adjoining foundation. To provide lateral stiffness 16mm ø reinforced bars at 600mm centers should be planted inside the wall vertically and plastered on side. The retaining wall shall be braced using 50mm ø x 3.0mm thick G.I pipes or 50x50x3.0mm thick steel L-angle sections in all feasible directions. This foundation protection proces will be continued until all the adjoining buildings foundations are supporetd.

The above stated methodology can only be applied if the adjoining building owner permits or else the lateral pressure on the material adjacent to the excavation could be provented materially by means of proper and careful placement of sheeting and bracing, i.e. around the property line 6mm thick steel sheets may be driven down to a depth of 600mm below the proposed foundation depth. To provide lateral stiffness these sheets shall be braced using 50mm ø x 3.0mm thick steel L-angle sections in all feasible directions. Onsite close observation, frequent measurements and recoding of the vertical and lateral movements and behaviour of the sheeting and bracing should be done to provide early warning of unfavorable development which might cause settlement of the adjacent bracing shoudld be done to provide early warning of unfavorable development which might cause settlement of the adjacent property. De-watering will be continued througout the excavation process and until casting of foundation, if the proposed foundation depth is below the water table.

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Foundation Protection

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