

ARCHITECTURAL DESIGN PROJECT

CIVIC HOUSING

Location: Tan Thach commune, Chau Thanh town,
Ben Tre province, Vietnam

Junior architect: My-Hung Nguyen
Supervised by: Senior Arch. Vo Ngoc Truong

Year: Nov, 2022 - April 2023

Catogories: residential housing

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1. SITE ASSESSMENT

Location: Tan Thach commune, Chau Thanh district, Ben Tre province, Vietnam
Area : 50 sqm

North: Tien river
South: Town street width < 3 m
East & West: residential houses

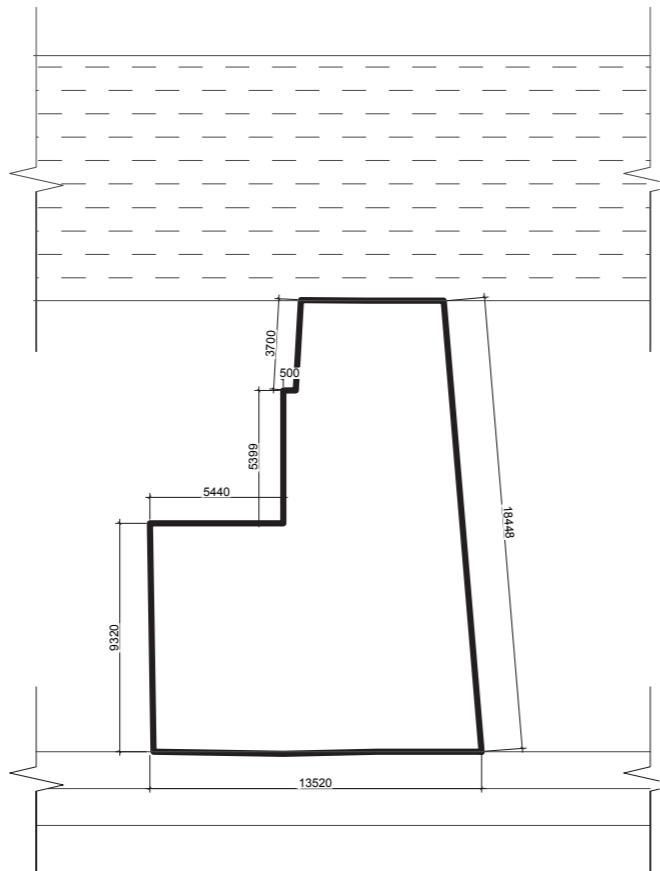
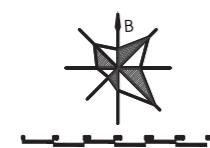
1.1 Site evaluation

Advantage:

North and South sides adjacent to road, and river - opportunity for views

Disadvantage:

Uneven land boundary - difficult for spatial arrangement



2. BRIEF

2 floors
4 bedrooms
1 living room
1 dining room
1 common room
1 shrining room/ space
1 kitchen
3 private WC, 1 common WC



3D model for the architectural proposal
Designer: My-Hung Nguyen

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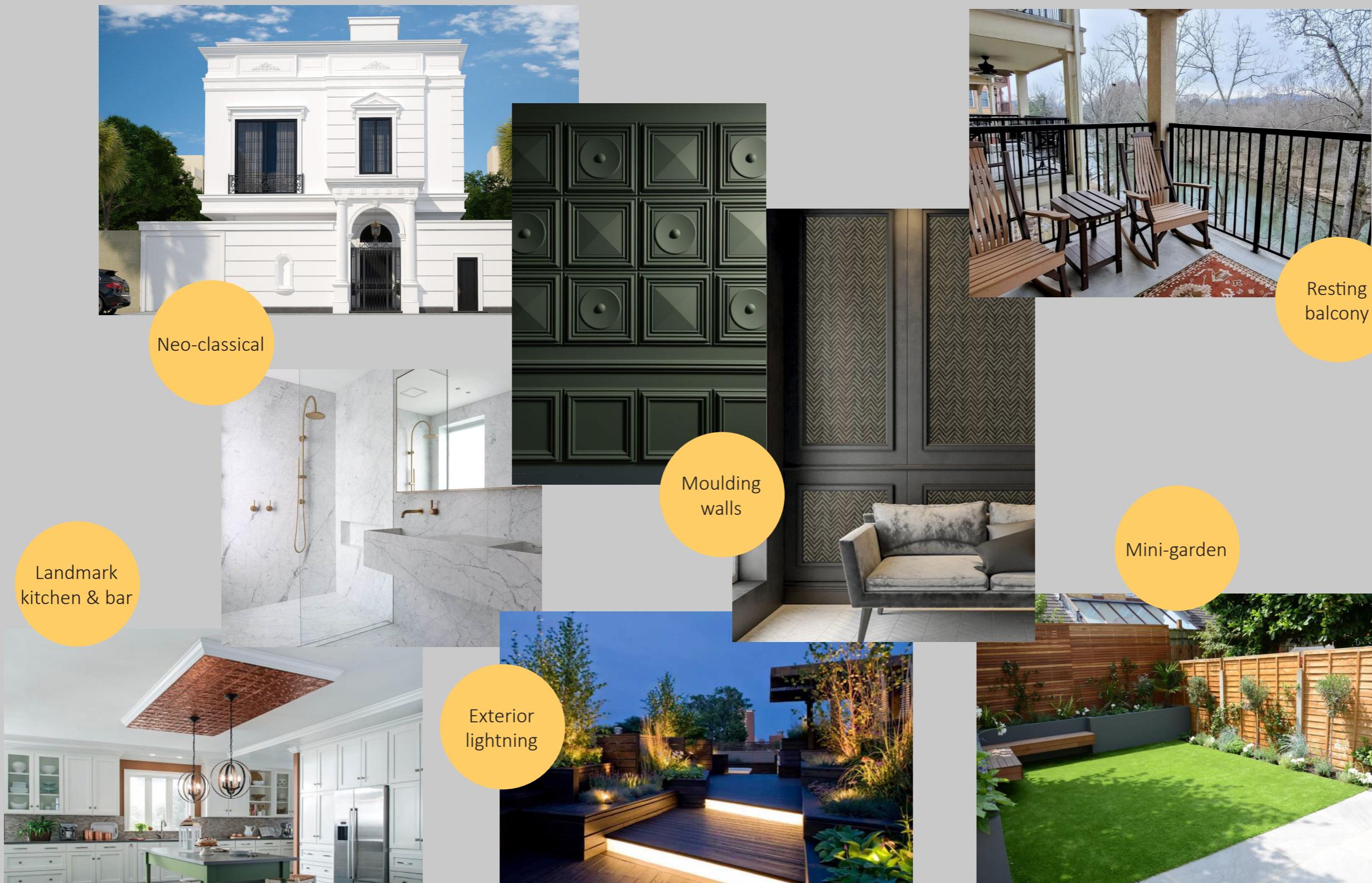
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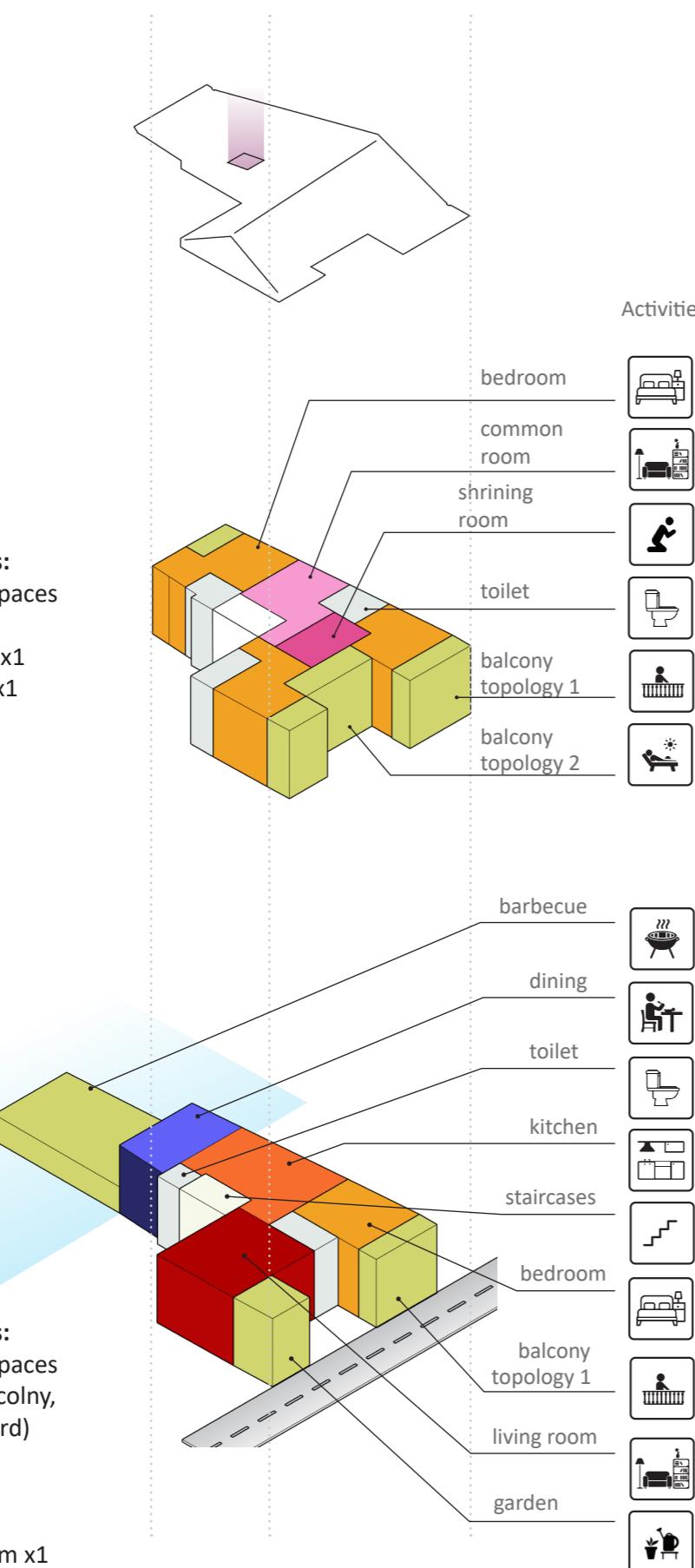
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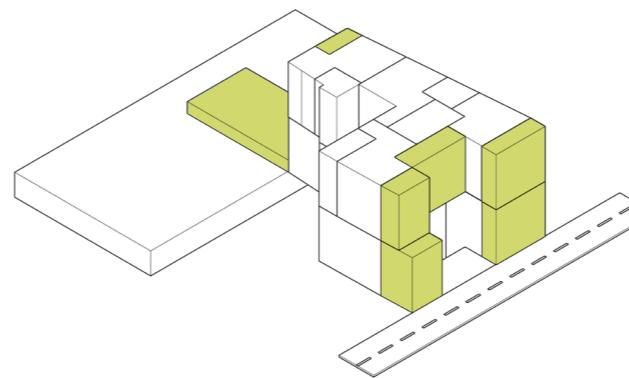
3. CONCEPTUAL ANALYSIS

3.1 Floors and Functional spaces

Roof:
 - Skylight
 - Gutters

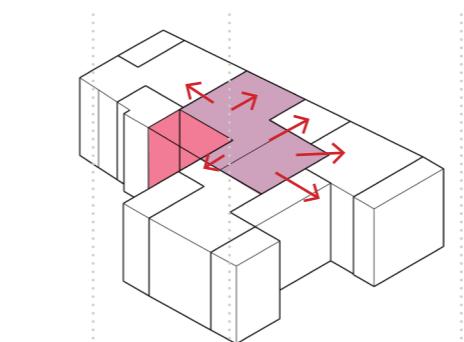


3.2 Logic in spatial arrangement



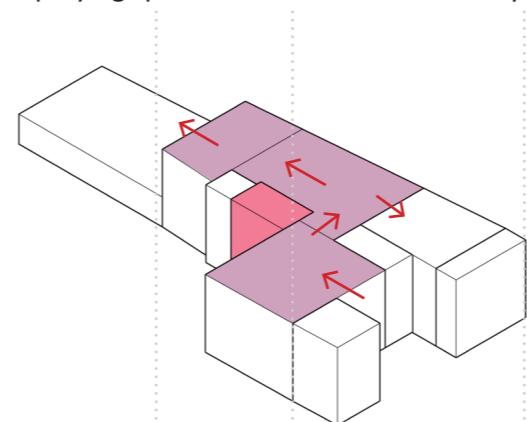
Semi spaces:

- Exploit the site location which is near the riverside and road, to establish series of open and semi-open spaces for outdoor activities, such as: sunbath, barbecue, and views.



Floor 2 Hallway & common space:

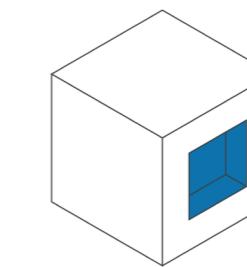
The internal hallway leading to common space, bedrooms, WC, praying space and the common balcony.



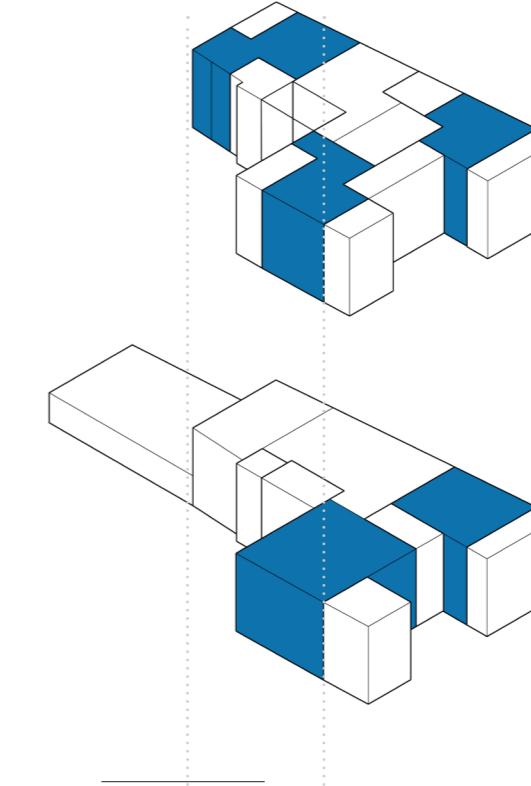
Floor 1 Hallway & common space:

The entrance of the house leads to living room, then kitchen, bar, dining room, common WC, master bedroom, and the backyard for barbecue.

3.3 Creative color tones



The interplay of 2 tones of colors white and blue proposes the ‘inside-out’ effect (check Pg.38); especially at night when the interior spaces are lightened up.



The blue tone is targeted for walls facing towards the street, or the river so that the mixture between exterior tone (white) and interior tone (blue) intrigues attraction.

The inner white tone is transitioned to functional spaces such as: kitchen, dining, common room and hallway, creating a calming effect following the atmosphere triggered by the interior design concept imitating the neo-classical style of architecture.

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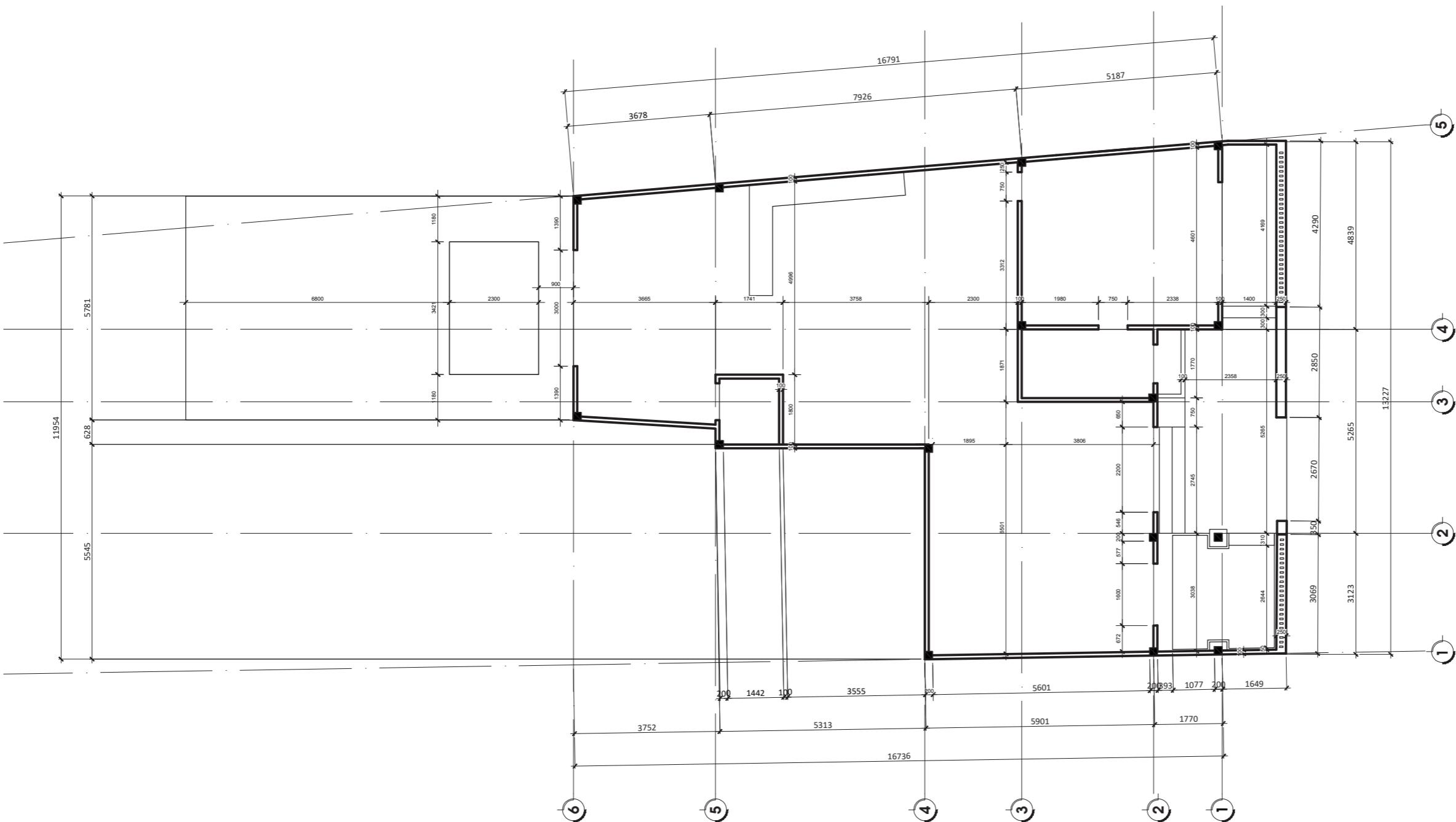
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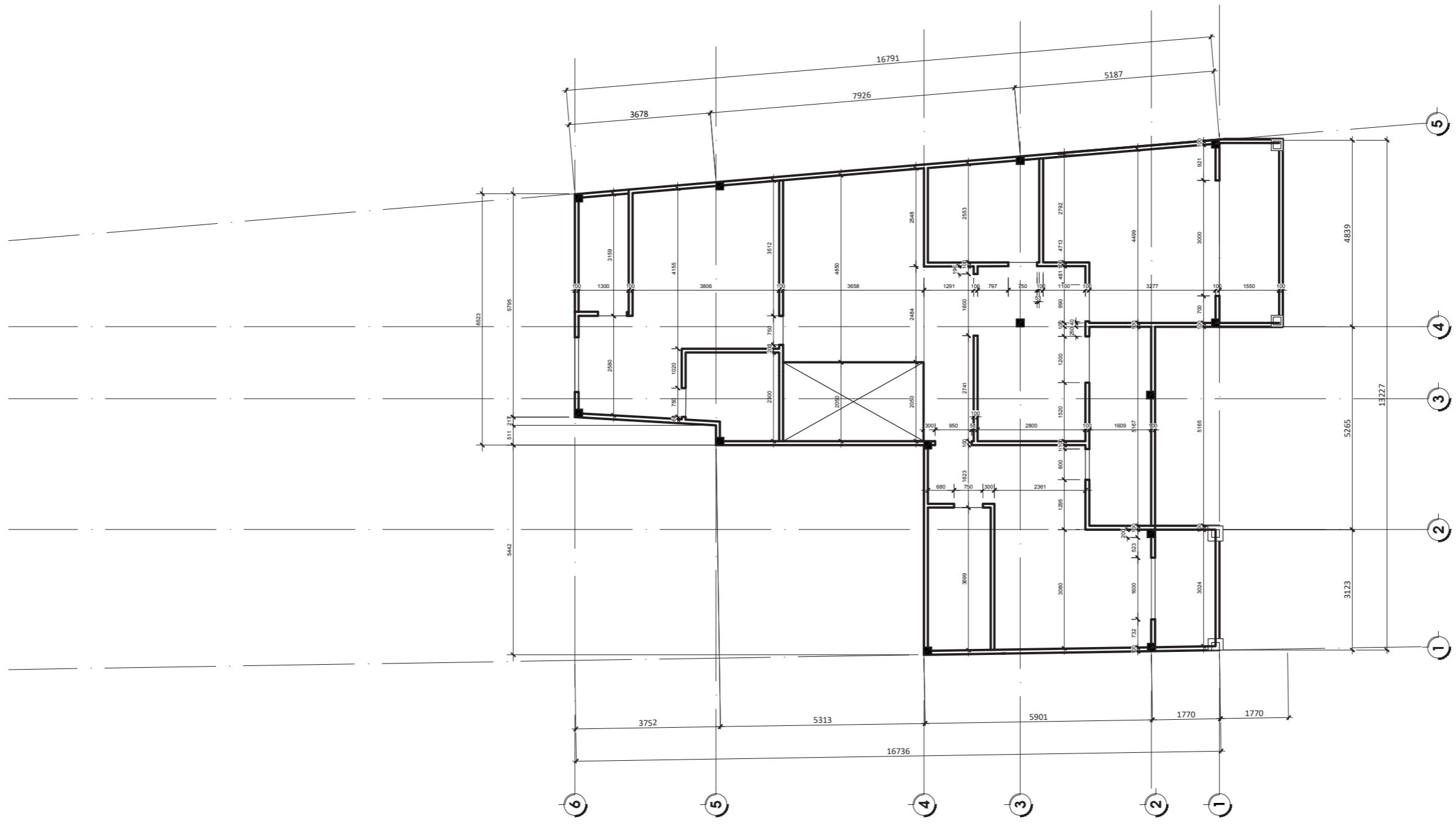


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FLOOR PLAN 2



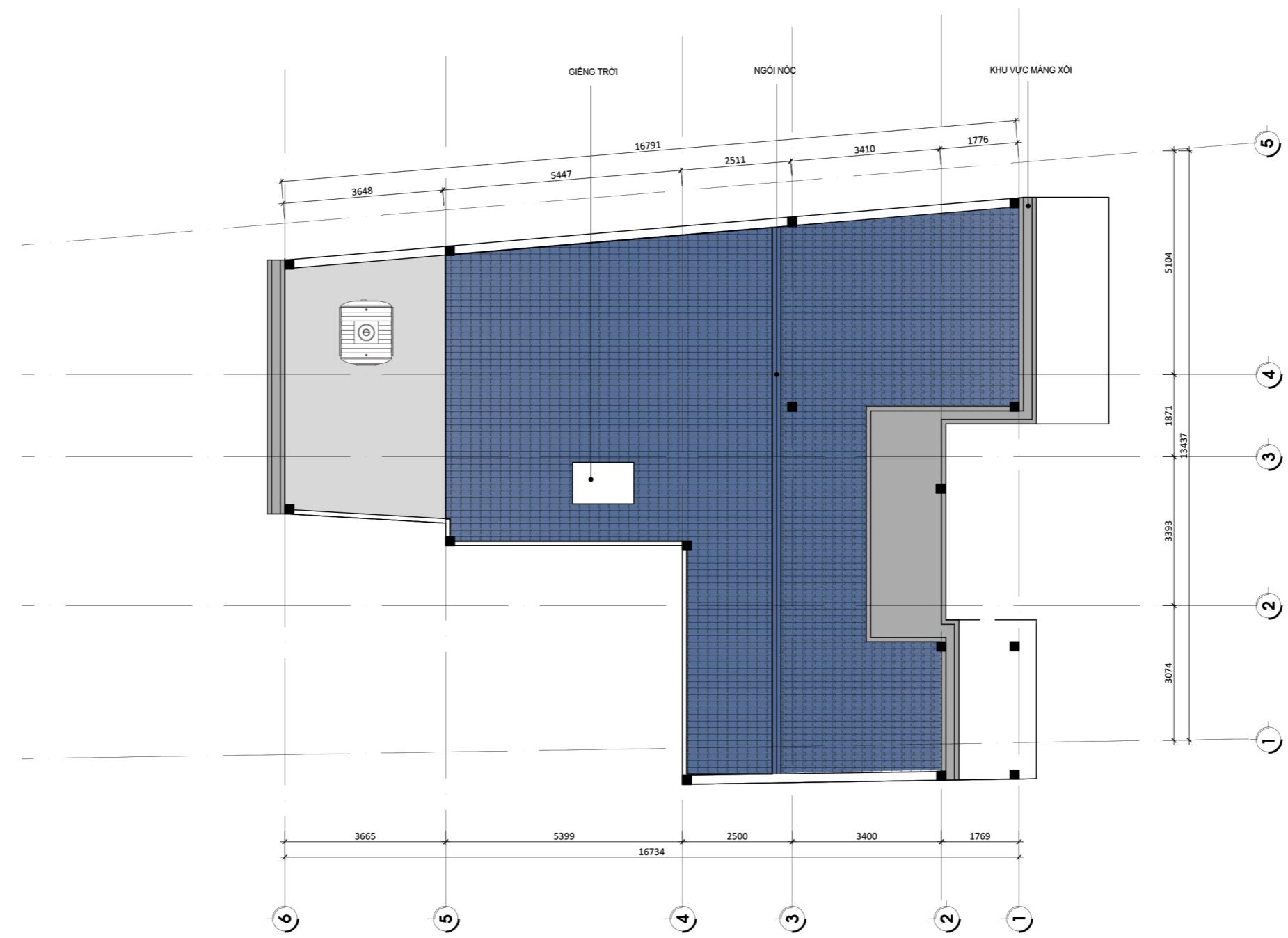
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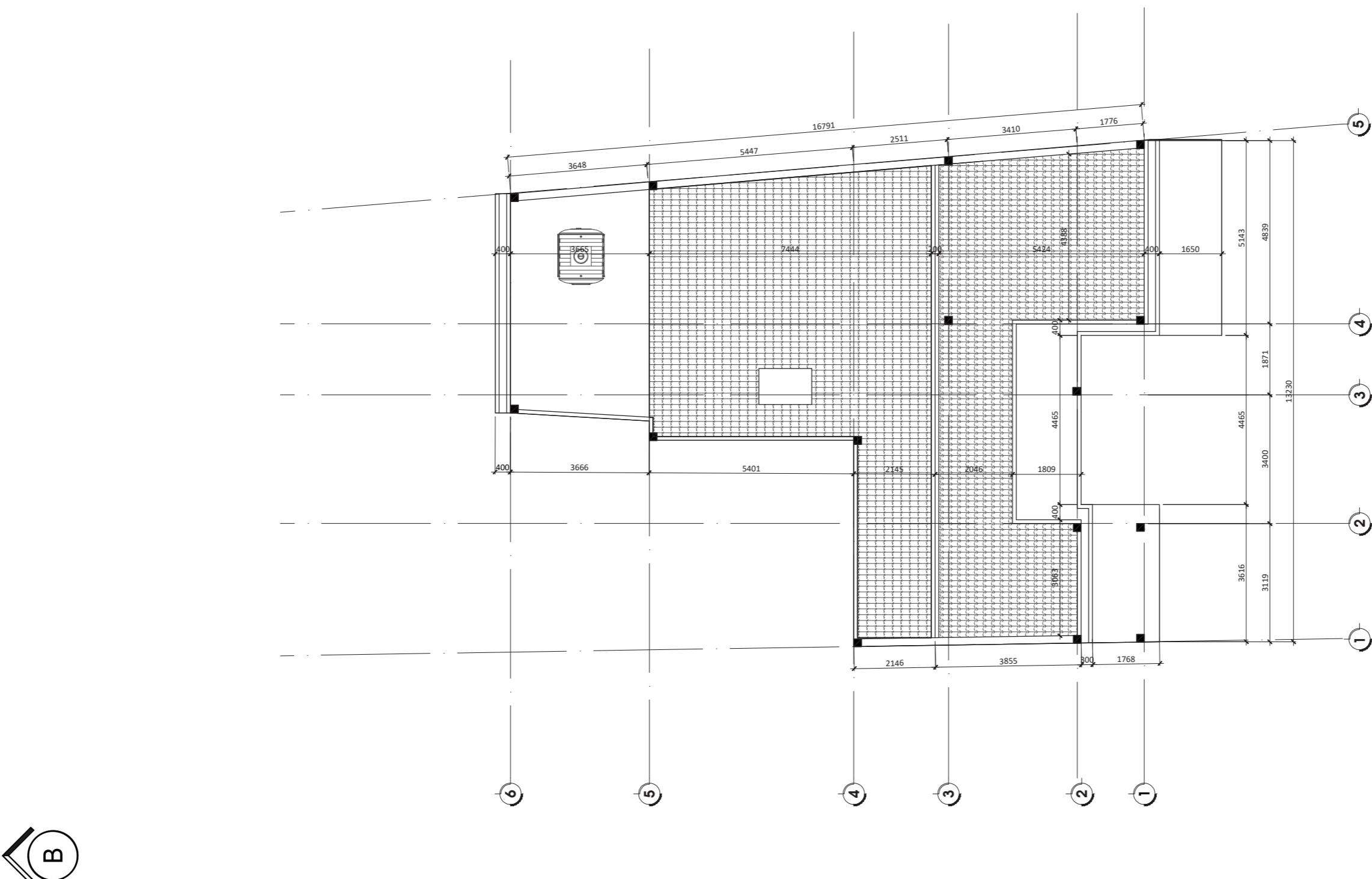
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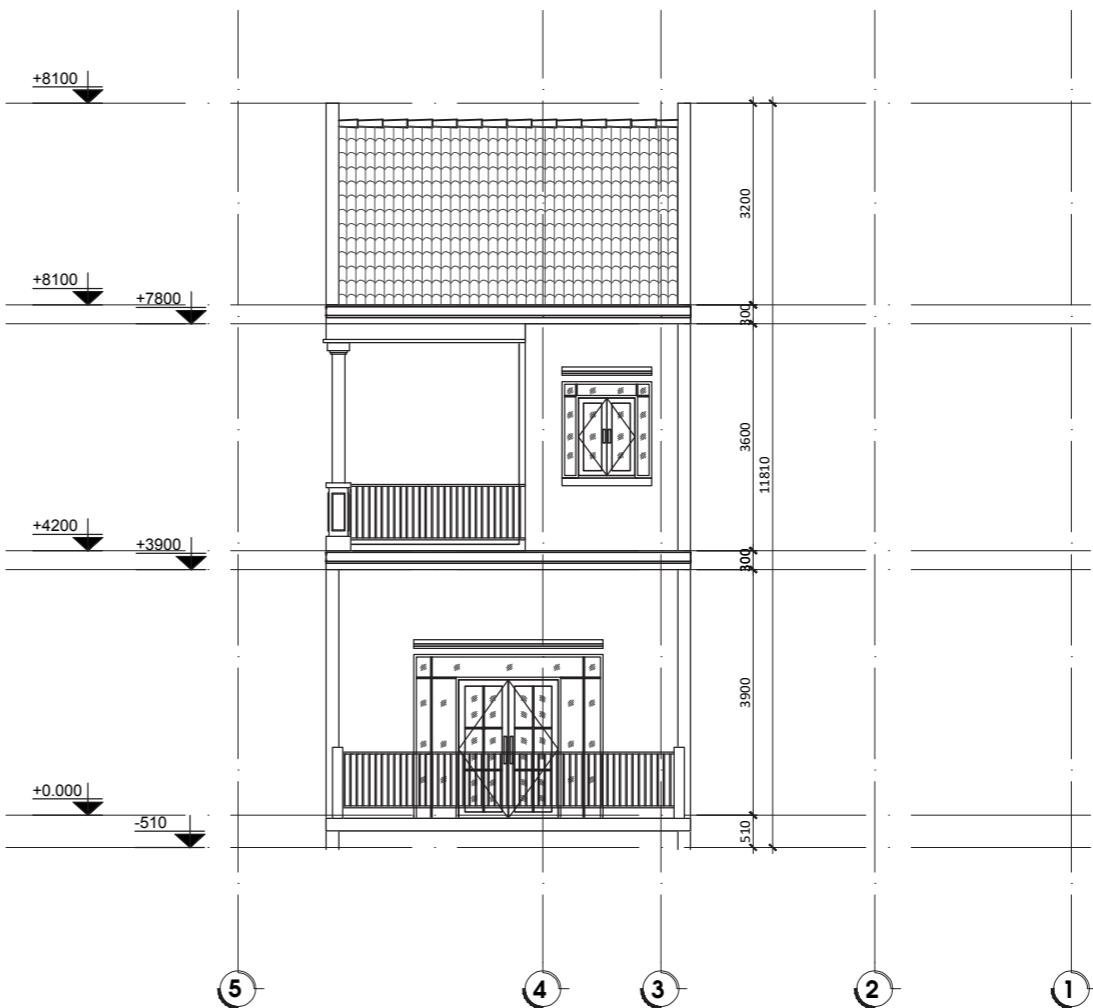
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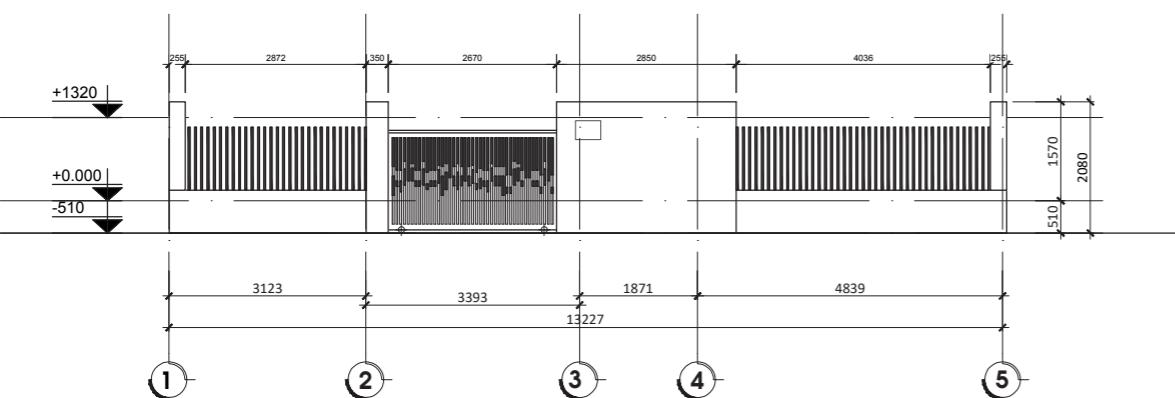
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ELEVATION-FRONT (WITHOUT GATE)



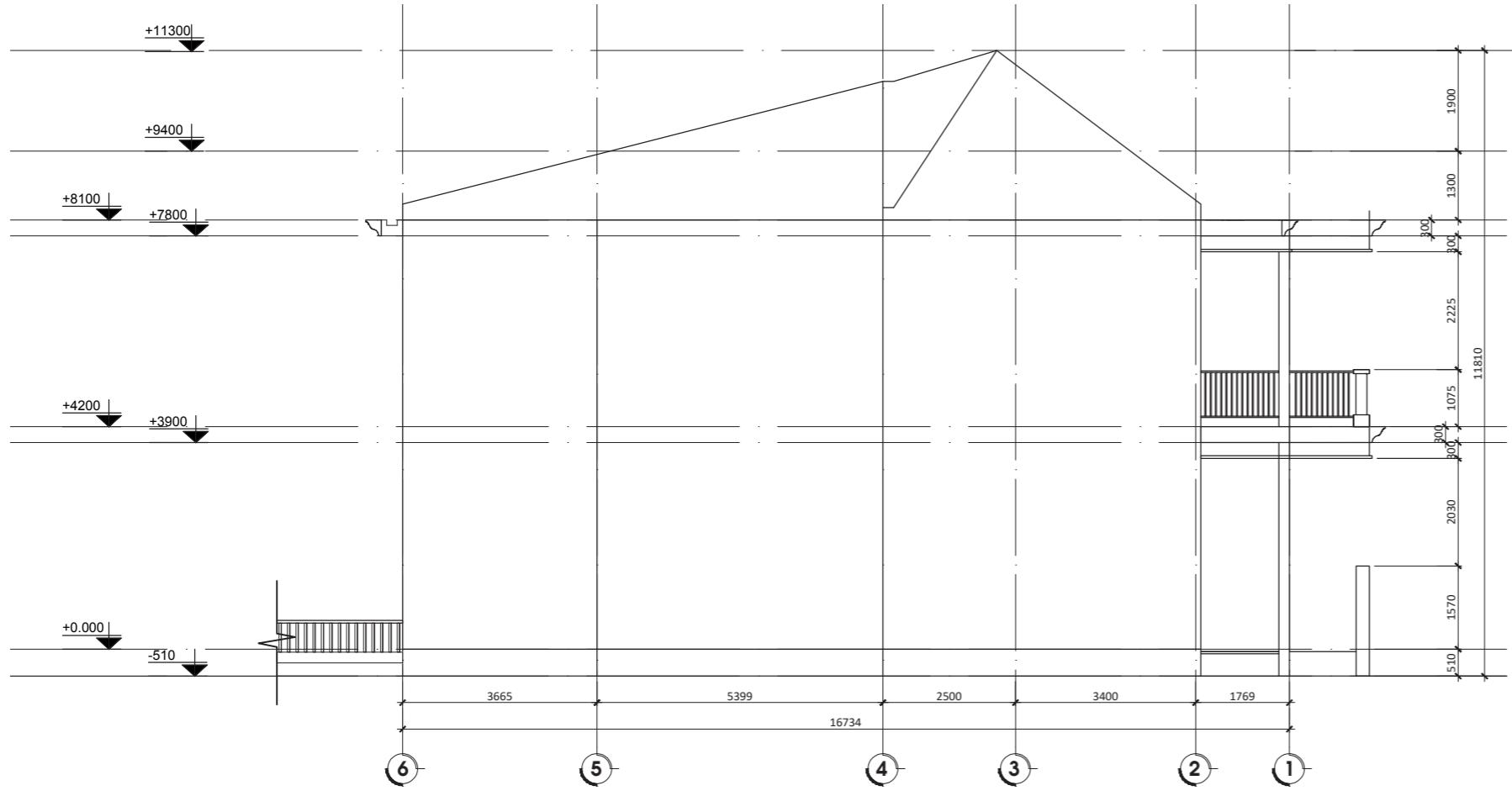
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ELEVATION-BACK

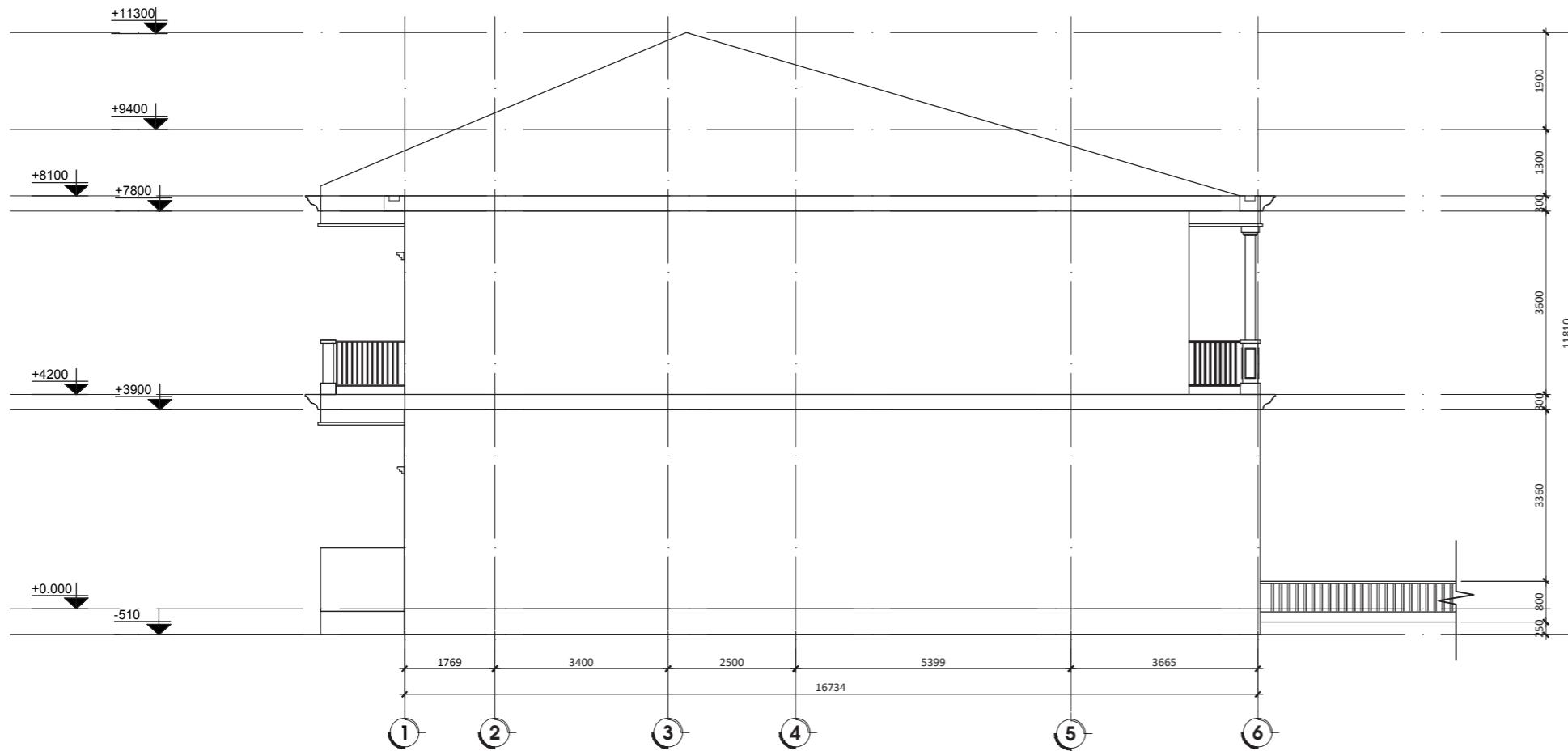


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ELEVATION GATE



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ELEVATION SIDE 6-1**



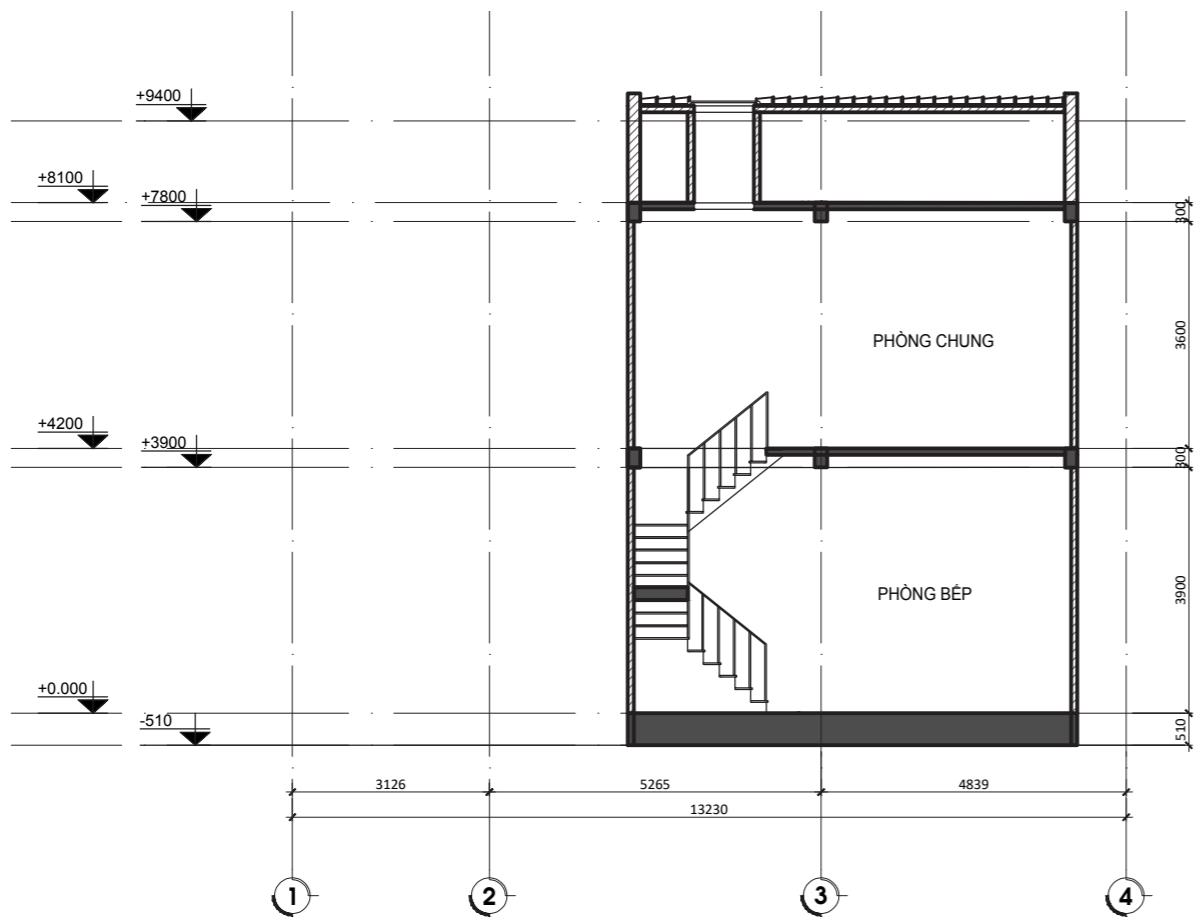
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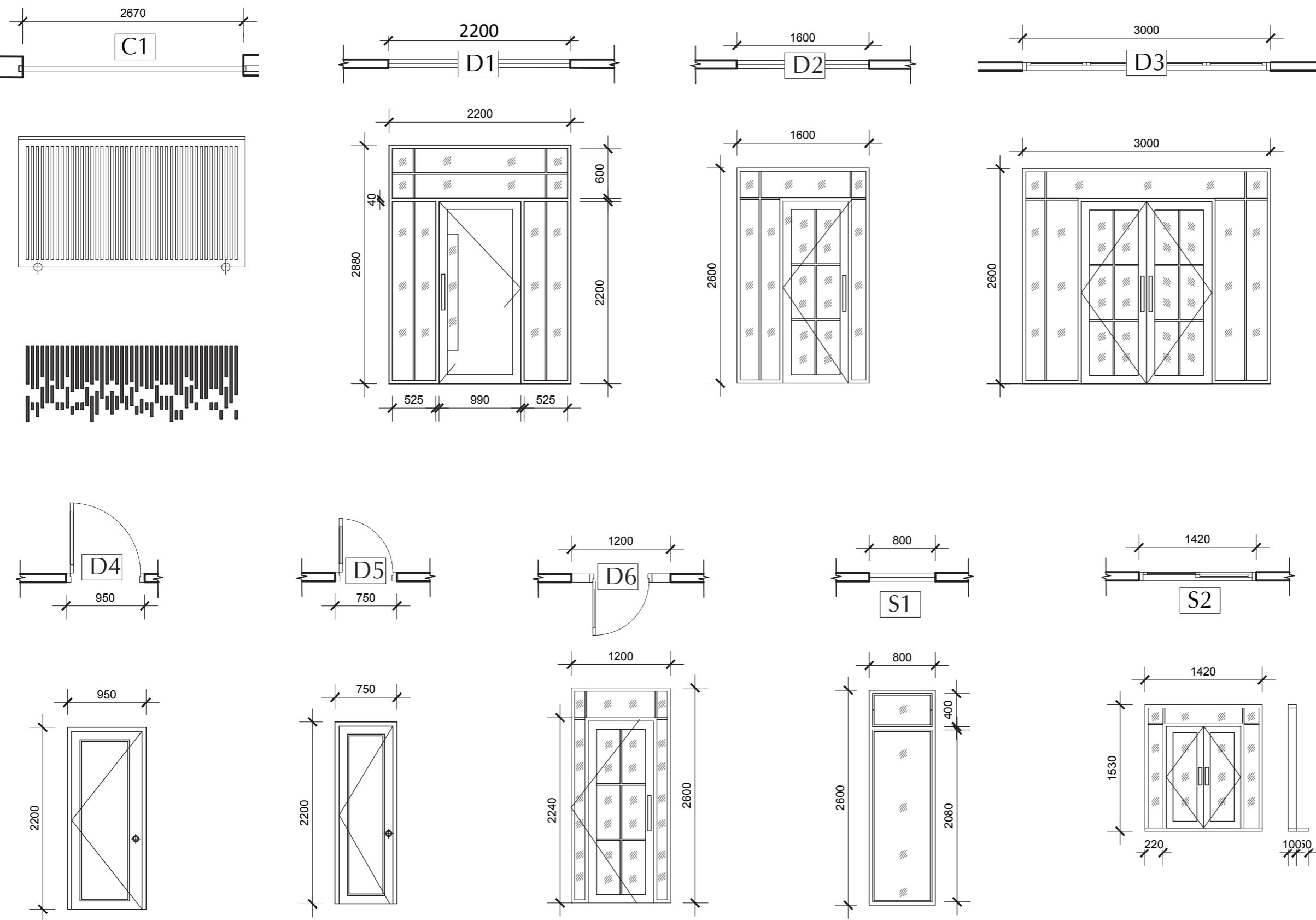


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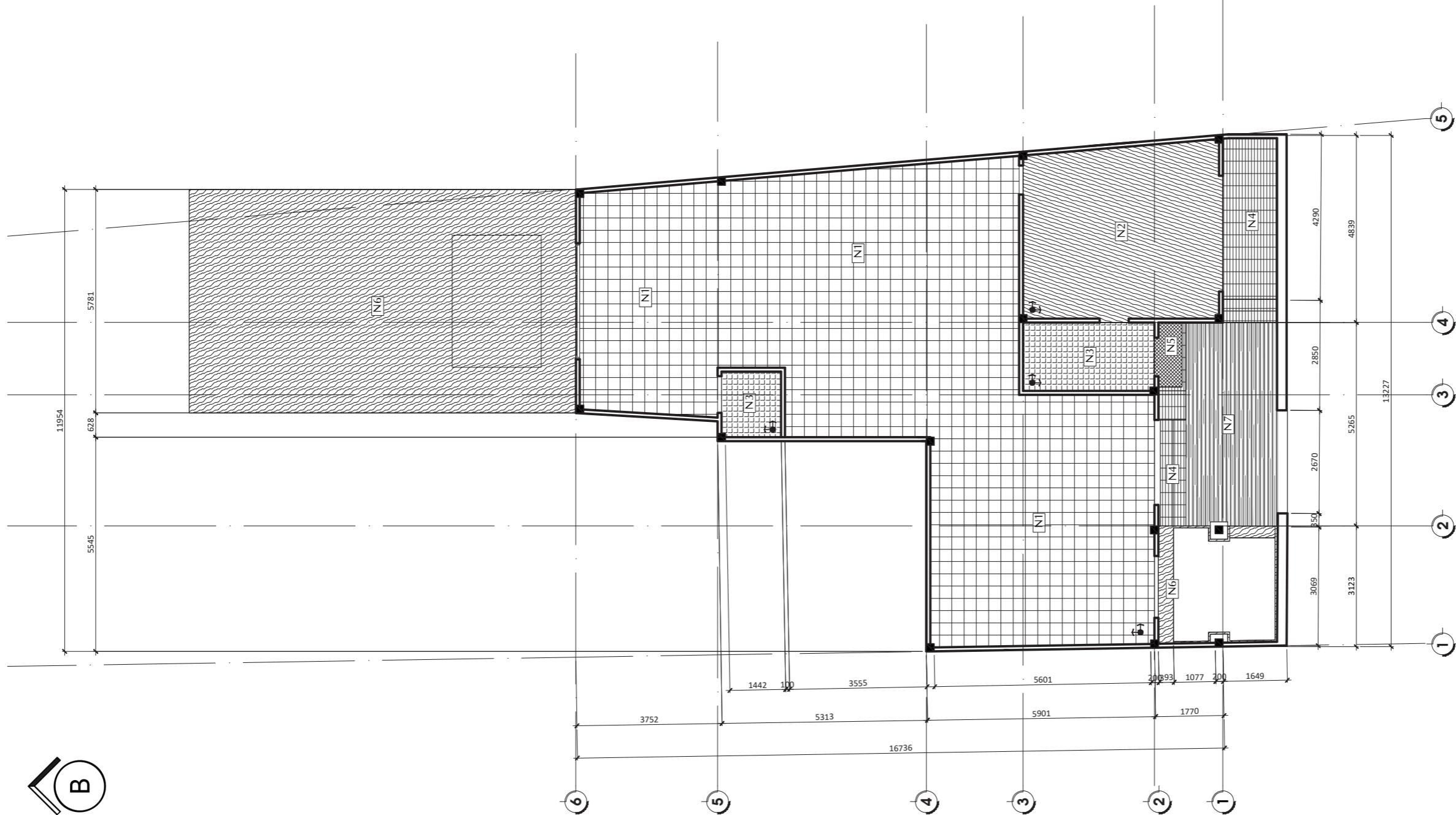
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FLOOR (TILED) PLAN 1

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<ul style="list-style-type: none"> LÁT GẠCH GRANITE KT 800X800 MÀU GIA CHỦ LỰA CHỌN LÓP VỮA LÁT NÊN DÀY $3\frac{1}{2}$ LÓP BÊ TÔNG ĐÁ (10X20), DÀY 100 LÓP ĐÁT ĐÁP NÊN ĐÀM CHẬT LÓP ĐÁT TỰ NHIÊN DỌN SẠCH 	<ul style="list-style-type: none"> LÁT GỖ THANH 145X1200X8 LÓP VỮA LÁT NÊN DÀY $3\frac{1}{2}$ LÓP BÊ TÔNG ĐÁ (10X20), DÀY 100 LÓP ĐÁT ĐÁP NÊN ĐÀM CHẬT LÓP ĐÁT TỰ NHIÊN DỌN SẠCH 	<ul style="list-style-type: none"> LÁT GẠCH CERAMIC KT 300X300 MÀU GIA CHỦ TỰ CHỌN, CHỐNG TRƯỢT LÓP VỮA LÁT NÊN DÀY $3\frac{1}{2}$, TẠO DÓC I=2% VỀ LÒ THU NƯỚC LÓP ĐÁT ĐÁP NÊN ĐÀM CHẬT LÓP ĐÁT TỰ NHIÊN DỌN SẠCH 	<ul style="list-style-type: none"> LÁT GẠCH GRANITE KT 800X800 MÀU GIA CHỦ LỰA CHỌN LÓP VỮA LÁT NÊN DÀY $3\frac{1}{2}$ LÓP BÊ TÔNG ĐÁ (10X20), DÀY 100 LÓP ĐÁT ĐÁP NÊN ĐÀM CHẬT LÓP ĐÁT TỰ NHIÊN DỌN SẠCH 	<ul style="list-style-type: none"> LÁT GẠCH MOSAIC CERAMIC KT 40X40 MÀU GIA CHỦ TỰ CHỌN, CHỐNG TRƯỢT LÓP VỮA LÁT NÊN DÀY $3\frac{1}{2}$, TẠO DÓC I=2% VỀ LÒ THU NƯỚC LÓP ĐÁT ĐÁP NÊN ĐÀM CHẬT LÓP ĐÁT TỰ NHIÊN DỌN SẠCH 	<ul style="list-style-type: none"> LÁT GỖ NHỰA COMPOSITE 140X25 MÀU KIỀU THIẾT KẾ THEO MÀU RÂI THANH ĐÀ KHÔNG CÁCH 300 MM LÓP VỮA LÁT NÊN DÀY $3\frac{1}{2}$, LÓP ĐÁT ĐÁP NÊN ĐÀM CHẬT LÓP ĐÁT TỰ NHIÊN DỌN SẠCH 	<ul style="list-style-type: none"> LÁT GẠCH HIỆU ỦNG BÊ MẶT 2 MÀU KIỀU THIẾT KẾ THEO MÀU RÂI THANH ĐÀ KHÔNG CÁCH 300 MM LÓP VỮA LÁT NÊN DÀY $3\frac{1}{2}$, LÓP ĐÁT ĐÁP NÊN ĐÀM CHẬT LÓP ĐÁT TỰ NHIÊN DỌN SẠCH

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17. Interior/ Ceiling plan 2
18. Interior/ Lightning plan 1
19. Interior/ Lightning plan 2
20. Interior/ Outdoor Lightning plan
21. Interior/ Electrical plan 1
22. Interior/ Electrical plan 2
23. Interior/ Outdoor Electrical plan
24. Interior/ Power socket plan 1
25. Interior/ Power socket plan 2

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27. Interior/ Kitchen/ Furniture
28. Interior/ Living - dining spaces F1
29. Interior/ Common - praying spaces F2
30. Interior/ WC & furniture
31. Interior/ Bedroom & furniture
32. Exterior/ Outdoor spaces
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FLOOR (TILED) PLAN 2

N1
<ul style="list-style-type: none"> LÁT GẠCH GRANITE KT 800X800 MÀU GIA CHỦ LỰA CHỌN LÓP VỮA LÁT NÊN DÀY $\frac{3}{5}$ LÓP BÊ TÔNG ĐÁ (10X20), DÀY 100 LÓP ĐÁT ĐÁP NÊN ĐÀM CHẤT LÓP ĐÁT TỰ NHIÊN DỌN SẠCH

N2
<ul style="list-style-type: none"> LÁT GỖ THANH 145X1200X8 LÓP VỮA LÁT NÊN DÀY $\frac{3}{5}$ LÓP BÊ TÔNG ĐÁ (10X20), DÀY 100 LÓP ĐÁT ĐÁP NÊN ĐÀM CHẤT LÓP ĐÁT TỰ NHIÊN DỌN SẠCH

N3
<ul style="list-style-type: none"> LÁT GẠCH CERAMIC KT 300X300 MÀU GIA CHỦ TỰ CHỌN, CHỐNG TRƯỢT LÓP VỮA LÁT NÊN DÀY $\frac{3}{5}$, TẠO DỘC I=2% VỀ LỐI THU NƯỚC LÓP ĐÁT ĐÁP NÊN ĐÀM CHẤT LÓP ĐÁT TỰ NHIÊN DỌN SẠCH

N4
<ul style="list-style-type: none"> LÁT GẠCH GRANITE KT 800X800 MÀU GIA CHỦ LỰA CHỌN LÓP VỮA LÁT NÊN DÀY $\frac{3}{5}$ LÓP BÊ TÔNG ĐÁ (10X20), DÀY 100 LÓP ĐÁT ĐÁP NÊN ĐÀM CHẤT LÓP ĐÁT TỰ NHIÊN DỌN SẠCH

N5
<ul style="list-style-type: none"> LÁT GẠCH MOSAIC CERAMIC KT 40X40 MÀU GIA CHỦ TỰ CHỌN, CHỐNG TRƯỢT LÓP VỮA LÁT NÊN DÀY $\frac{3}{5}$, TẠO DỘC I=2% VỀ LỐI THU NƯỚC LÓP BÊ TÔNG ĐÁ (10X20), DÀY 100 LÓP ĐÁT ĐÁP NÊN ĐÀM CHẤT LÓP ĐÁT TỰ NHIÊN DỌN SẠCH

N6
<ul style="list-style-type: none"> LÁT GỖ NHỰA COMPOSITE 140X25 MÀU GIA CHỦ TỰ KHOẢNG CÁCH 300 MM LÓP VỮA LÁT NÊN DÀY $\frac{3}{5}$, LÓP ĐÁT ĐÁP NÊN ĐÀM CHẤT LÓP ĐÁT ĐÁP NÊN ĐÀM CHẤT LÓP ĐÁT TỰ NHIÊN DỌN SẠCH

N7
<ul style="list-style-type: none"> LÁT GẠCH HIỆU ỨNG BÊ MẶT 2 MÀU KIỂU THIẾT KẾ THEO MẪU LÓP VỮA LÁT NÊN DÀY $\frac{3}{5}$, LÓP ĐÁT ĐÁP NÊN ĐÀM CHẤT LÓP ĐÁT TỰ NHIÊN DỌN SẠCH

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- Interior/ Ceiling plan 1
- Interior/ Ceiling plan 2
- Interior/ Lightning plan 1
- Interior/ Lightning plan 2
- Interior/ Outdoor Lightning plan
- Interior/ Electrical plan 1
- Interior/ Electrical plan 2
- Interior/ Outdoor Electrical plan
- Interior/ Power socket plan 1
- Interior/ Power socket plan 2

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- Interior/ Kitchen
- Interior/ Kitchen/ Furniture
- Interior/ Living - dining spaces F1
- Interior/ Common - praying spaces F2
- Interior/ WC & furniture
- Interior/ Bedroom & furniture
- Exterior/ Outdoor spaces
- Exterior/ Night view

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CEILINGPLAN 1

T1	- TRẦN BTCT COS +4.000 SƠN NUỚC MÀU TRẮNG
T2	- TRẦN THẠCH CAO KHUNG CHÌM CHỐNG ÂM COS +3.900 - SƠN NUỚC MÀU TRẮNG
T3	- TRẦN BTCT COS +4.200 SƠN NUỚC MÀU TRẮNG
T4	- TRẦN BTCT COS +3.900 SƠN NUỚC MÀU TRẮNG

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28. Interior/ Living - dining spaces F1
29. Interior/ Common - praying spaces F2
30. Interior/ WC & furniture
31. Interior/ Bedroom & furniture
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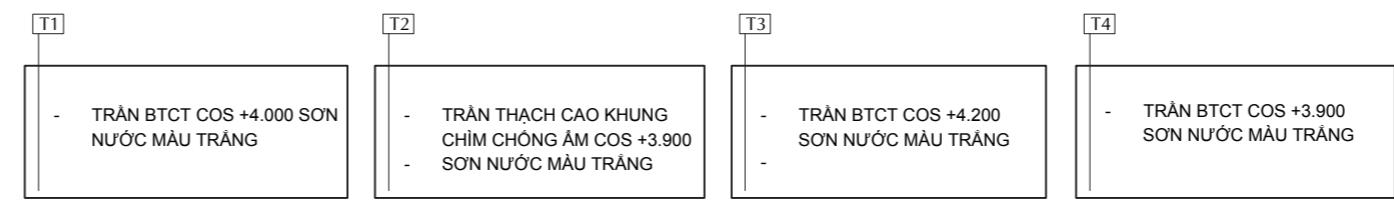
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31. Interior/ Bedroom & furniture
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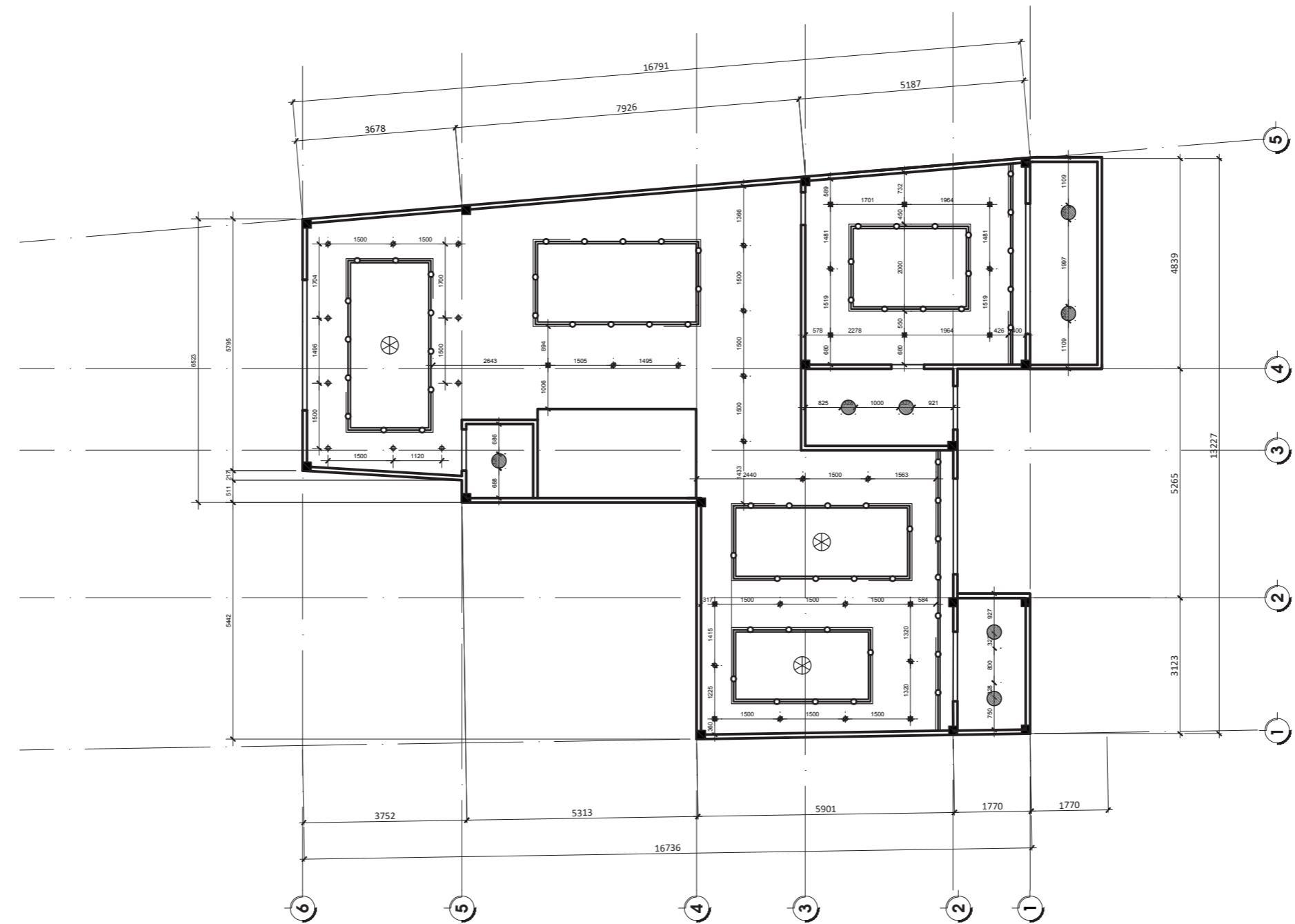
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LIGHTNING PLAN FLOOR 1

ĐÈN TƯỜNG	ĐÈN GƯƠNG	ĐÈN CHÙM	ĐÈN LED TRÒN PHI 90 ÂM MPE 12W 4000K	ĐÈN LED TRÒN PHI 90 ÂM MPE 12W 4000K
				

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17. Interior/ Ceiling plan 2
18. Interior/ Lightning plan 1
- 19. Interior/ Lightning plan 2**
20. Interior/ Outdoor Lightning plan
21. Interior/ Electrical plan 1
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23. Interior/ Outdoor Electrical plan
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LIGHTNING PLAN FLOOR 2

ĐÈN TƯỜNG	ĐÈN GƯƠNG	ĐÈN CHÙM	ĐÈN LED TRÒN PHI 90 ÂM MPE 12W 4000K	ĐÈN LED TRÒN PHI 90 ÂM MPE 12W 4000K

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31. Interior/ Bedroom & furniture
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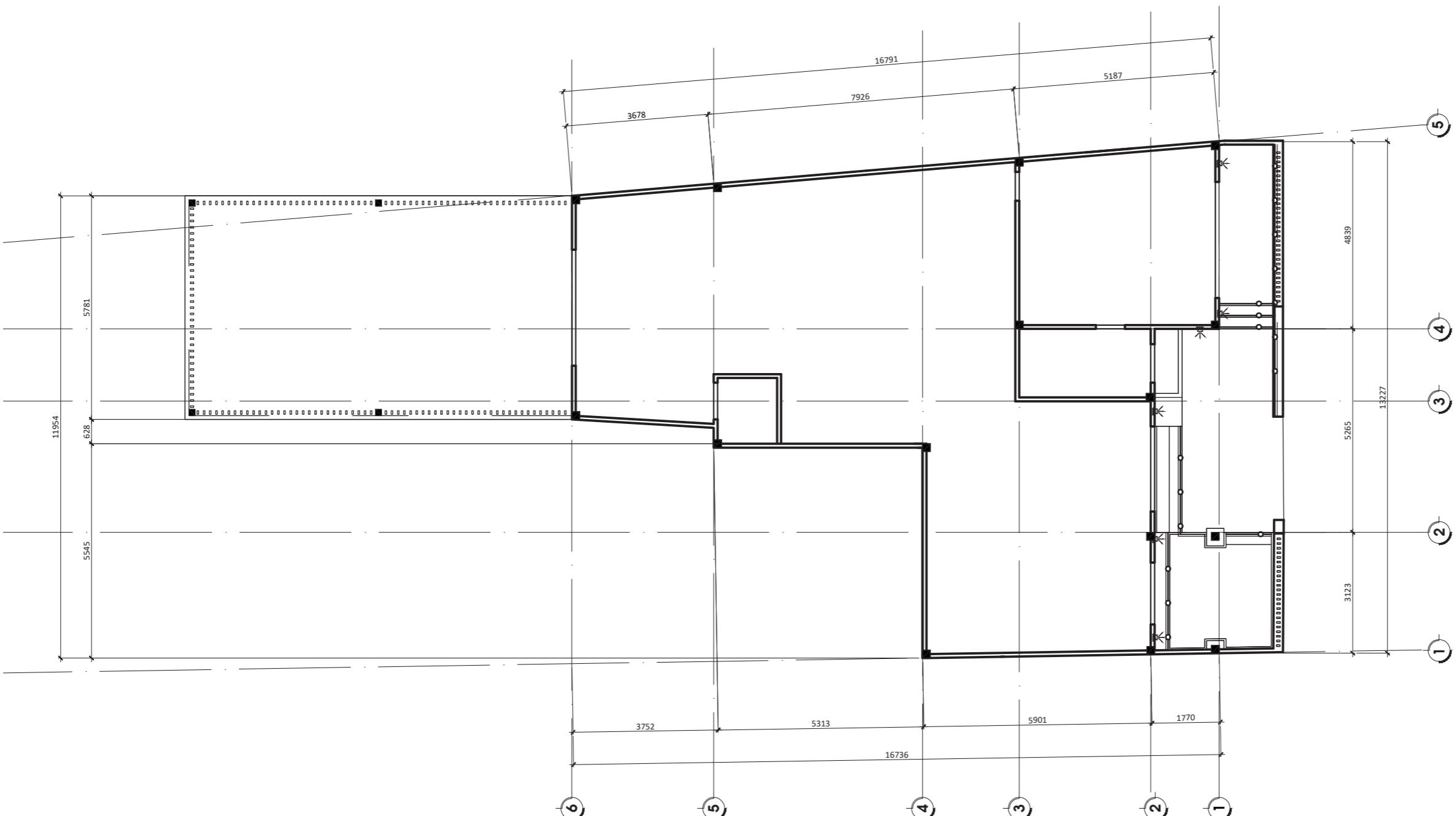
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LIGHTNING PLAN OUTDOOR

ĐÈN TƯỜNG	ĐÈN GƯƠNG	ĐÈN CHÙM	ĐÈN LED TRÒN PHI 90 ÂM MPE 12W 4000K	ĐÈN LED TRÒN PHI 90 ÂM MPE 12W 4000K

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ELECTRICAL PLAN FLOOR 1

ĐÈN TƯỜNG	ĐÈN GƯƠNG	ĐÈN CHÙM	ĐÈN LED TRÒN PHI 55 ÂM MPE 12W 4000K

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ELECTRICAL PLAN FLOOR 2

ĐÈN TƯỜNG	ĐÈN GƯƠNG	ĐÈN CHÙM	ĐÈN LED TRÒN PHI 55 ÂM MPE 12W 4000K

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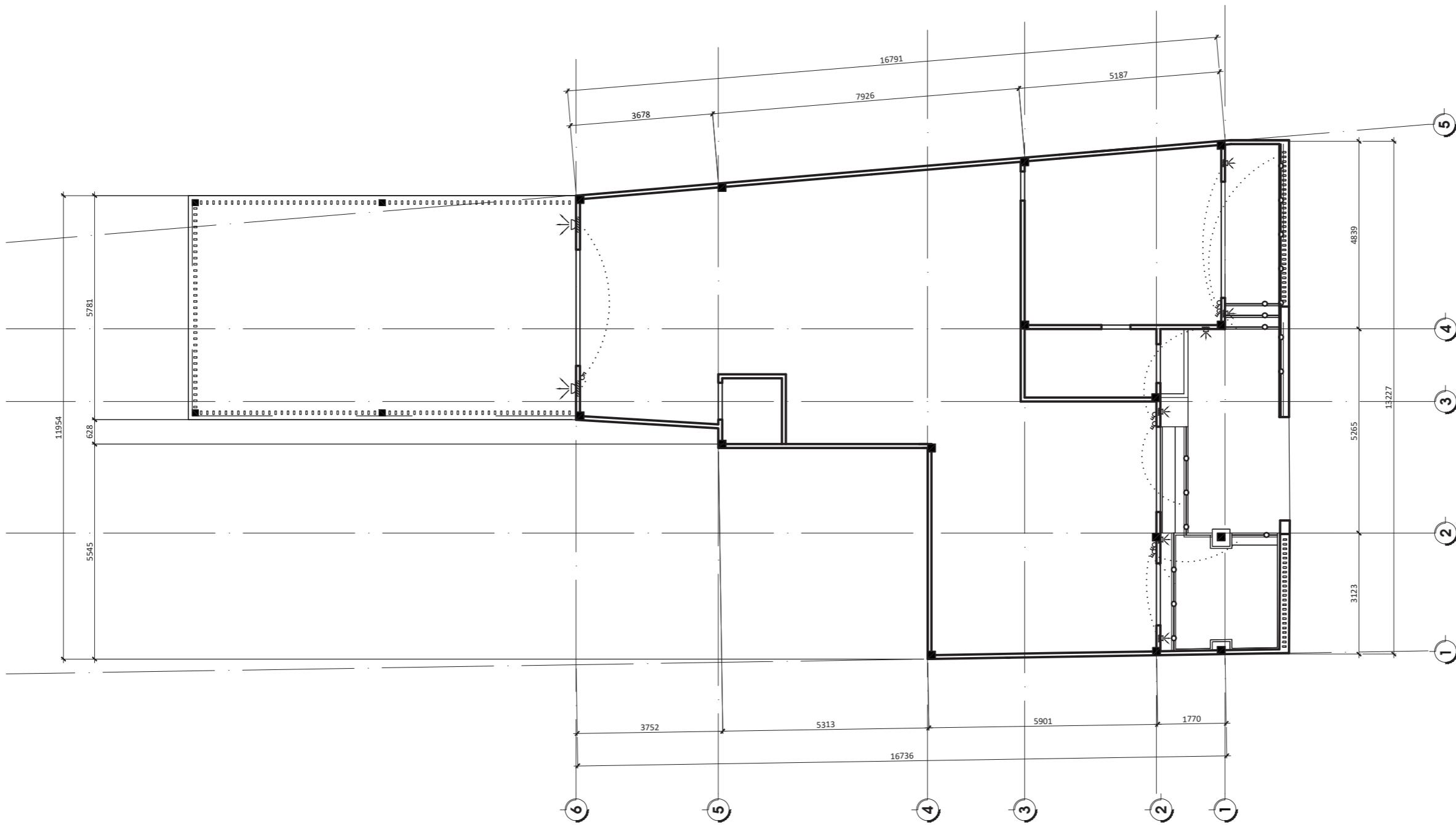
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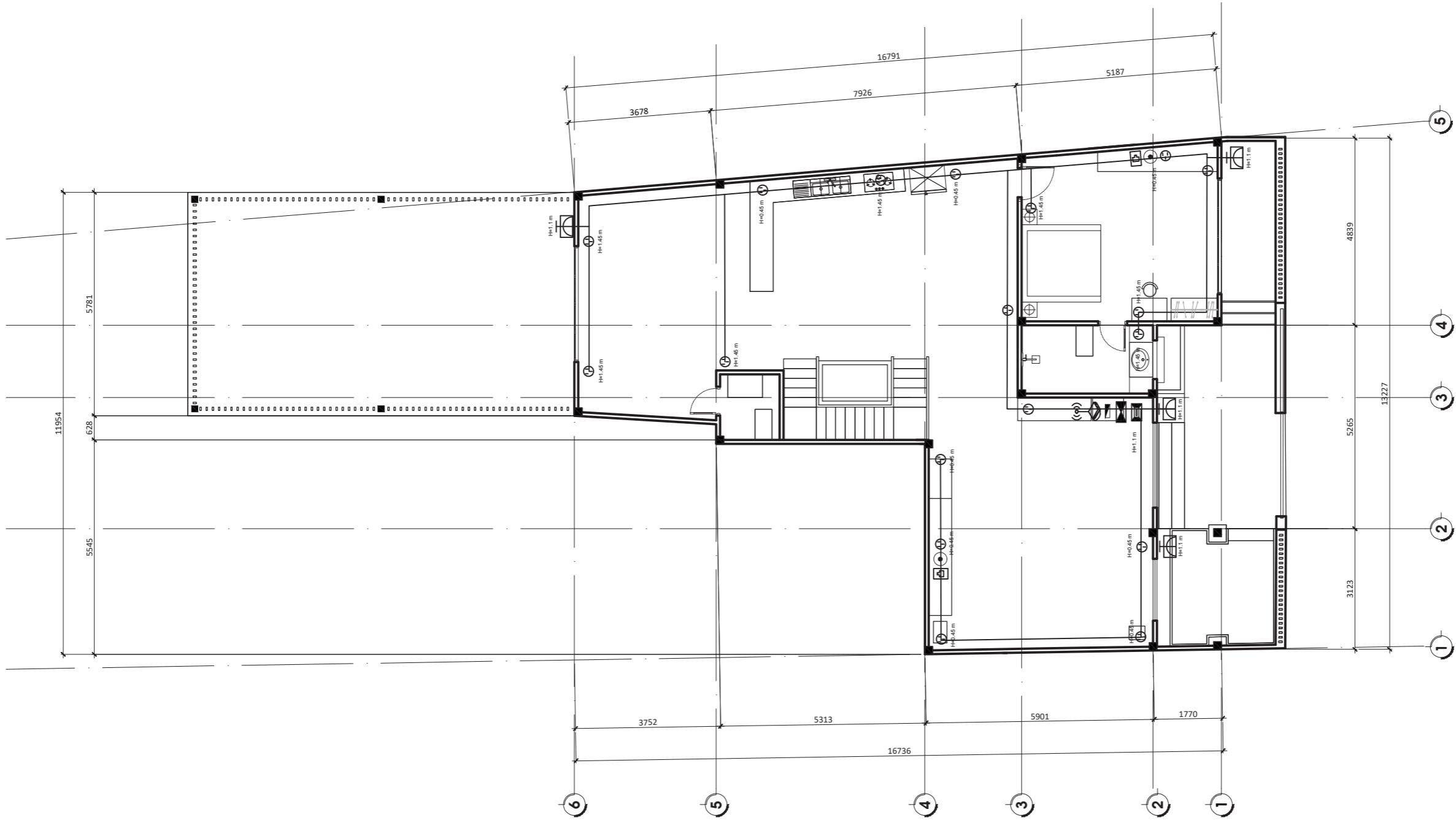
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ELECTRICAL PLAN OUTDOOR

ĐÈN TƯỜNG	ĐÈN GƯƠNG	ĐÈN CHÙM	ĐÈN LED TRÒN PHI 55 ÂM MPE 12W 4000K
			



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POWER SOCKET PLAN FLOOR 1

KÝ HIỆU HỆ THỐNG Ổ CẮM	Ø CẮM CABLE TIVI CÙNG CAO ĐỘ VỚI MẶT NÀO Ổ CẮM TẠI CÙNG VỊ TRÍ
⊖	Ổ CẮM ÂM TƯỜNG, CAO ĐỘ LẮP ĐẶT +0.3m TÍNH ĐẾN CHÂN MẶT NÀO
⊖	Ổ CẮM ÂM TƯỜNG, CAO ĐỘ LẮP ĐẶT +1.30m TÍNH ĐẾN CHÂN MẶT NÀO
⊖	Ổ CẮM CABLE ADSL CÙNG CAO ĐỘ VỚI MẶT NÀO Ổ CẮM TẠI CÙNG VỊ TRÍ
⊖	CP
⊖	Ổ CẮM 3 CHỐNG NƯỚC NGOÀI TRỜI
⊖	Ổ CẮM CABLE DIỄN THOẠI CÙNG CAO ĐỘ VỚI MẶT NÀO Ổ CẮM TẠI CÙNG VỊ TRÍ
⊖	MODEM WIFI CÙNG CAO ĐỘ VỚI MẶT NÀO Ổ CẮM TẠI CÙNG VỊ TRÍ
⊖	TỦ ĐIỆN PHÂN PHỐI CHÍNH
⊖	TỦ ĐIỆN PHÂN PHỐI TẦNG

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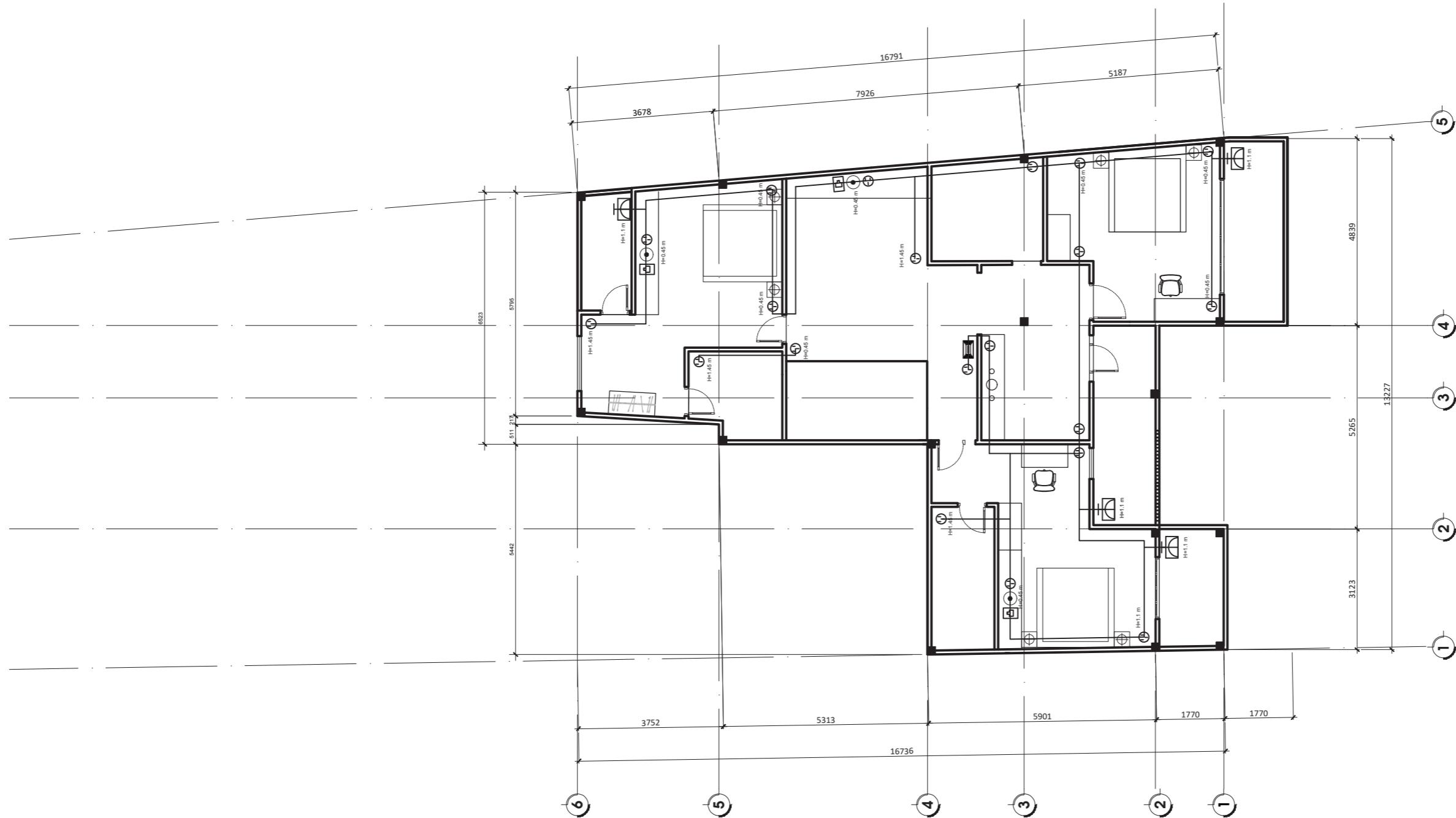
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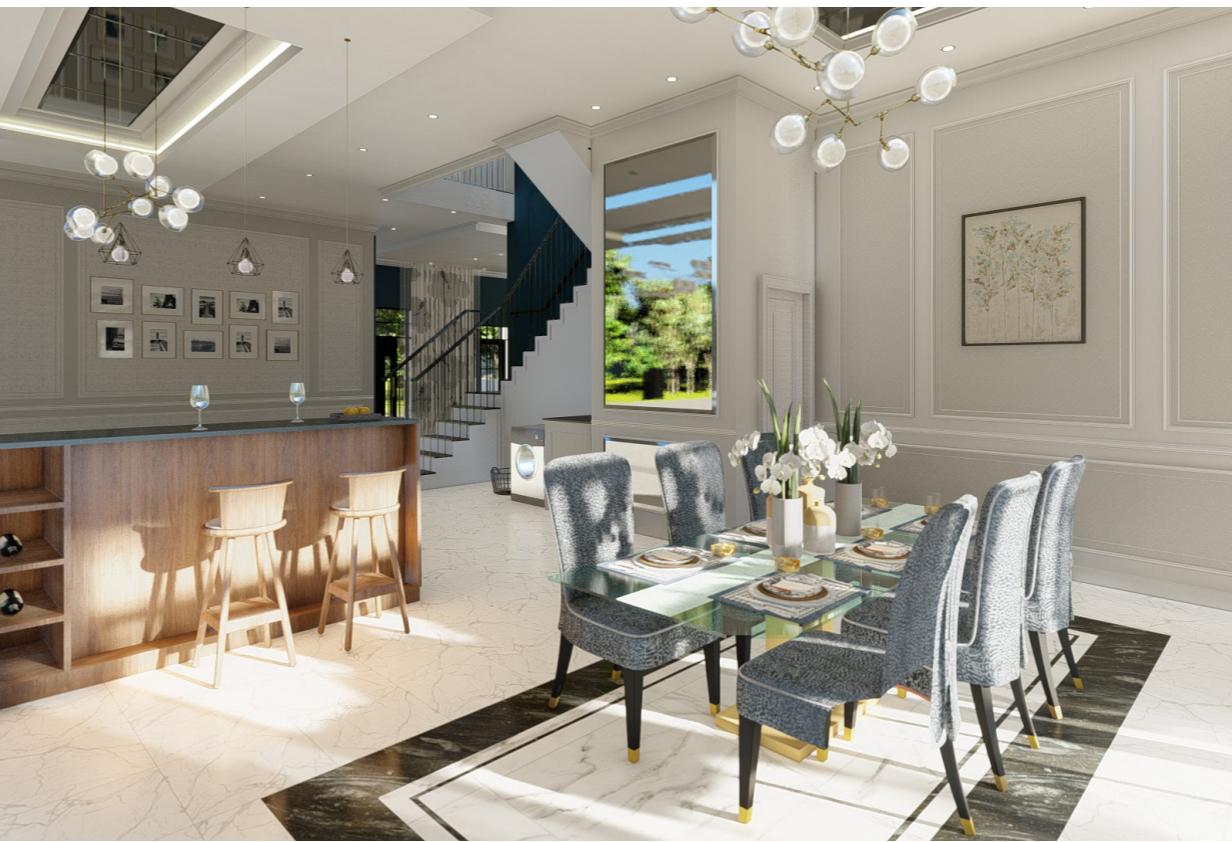
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SCALE 1/120

POWER SOCKET PLAN FLOOR 2

KÝ HIỆU HỆ THỐNG Ổ CẮM	Ø CẮM CABLE TIVI CÙNG CAO ĐỘ VỚI MẶT NÀO Ổ CẮM TẠI CÙNG VỊ TRÍ
⊕	Ổ CẮM ÂM TƯỜNG, CAO ĐỘ LẮP ĐẶT +0.3m TÍNH ĐẾN CHÂN MẶT NÀO
⊖	Ổ CẮM ÂM TƯỜNG, CAO ĐỘ LẮP ĐẶT +1.30m TÍNH ĐẾN CHÂN MẶT NÀO
□	Ổ CẮM CABLE ADSL CÙNG CAO ĐỘ VỚI MẶT NÀO Ổ CẮM TẠI CÙNG VỊ TRÍ
■	CP
□	Ổ CẮM 3 CHỐNG NƯỚC NGOÀI TRỜI
□	Ổ CẮM CABLE DIỄN THOẠI CÙNG CAO ĐỘ VỚI MẶT NÀO Ổ CẮM TẠI CÙNG VỊ TRÍ
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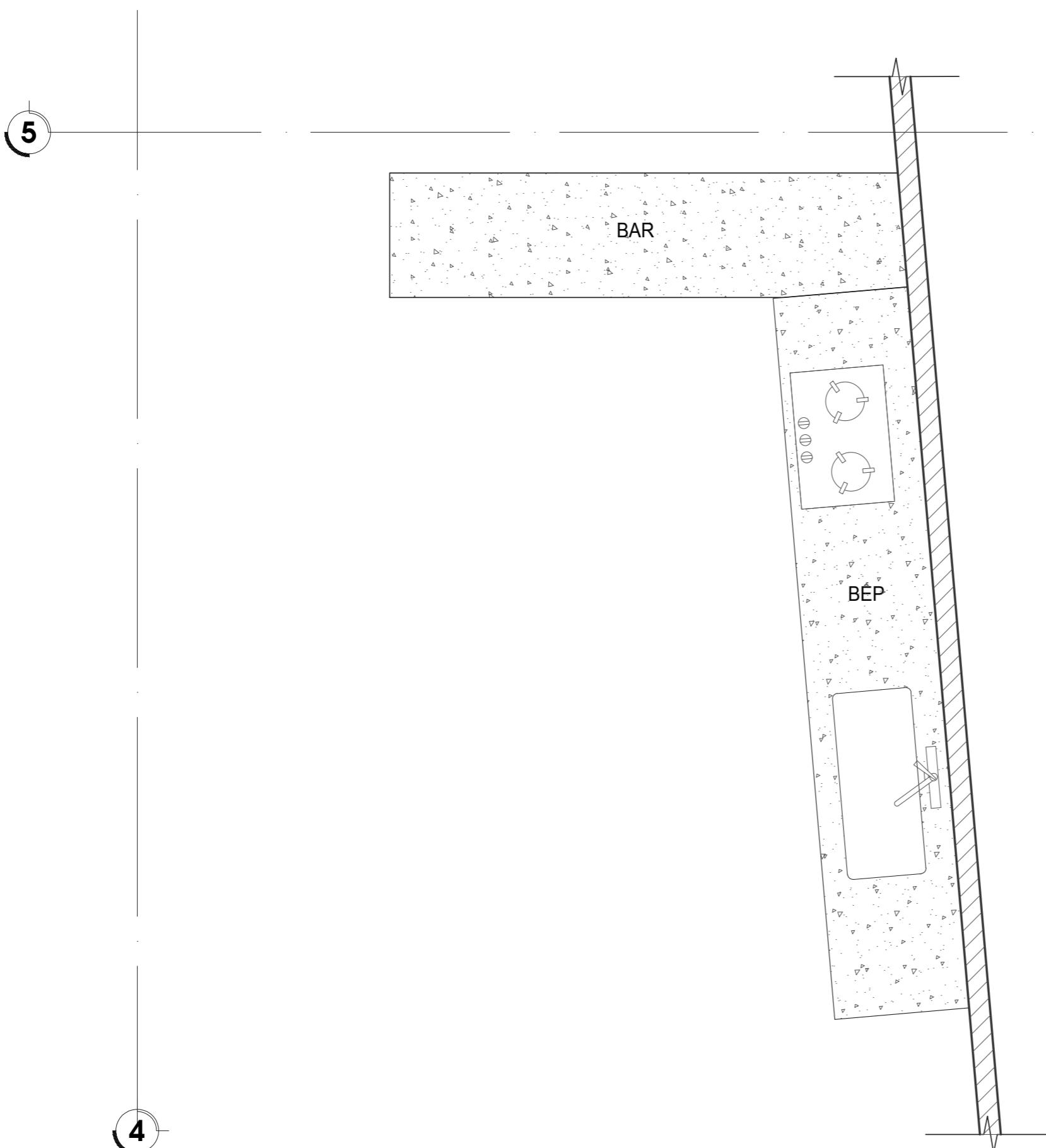
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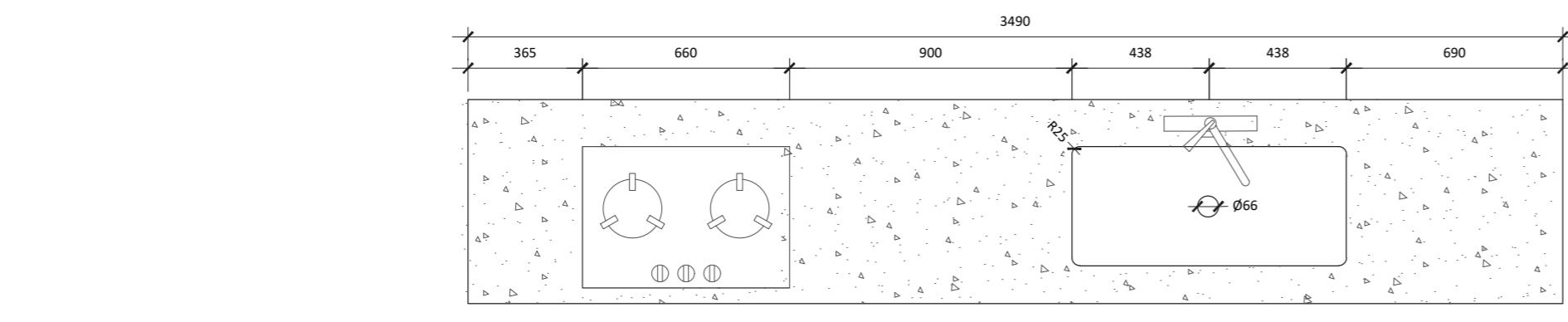
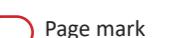
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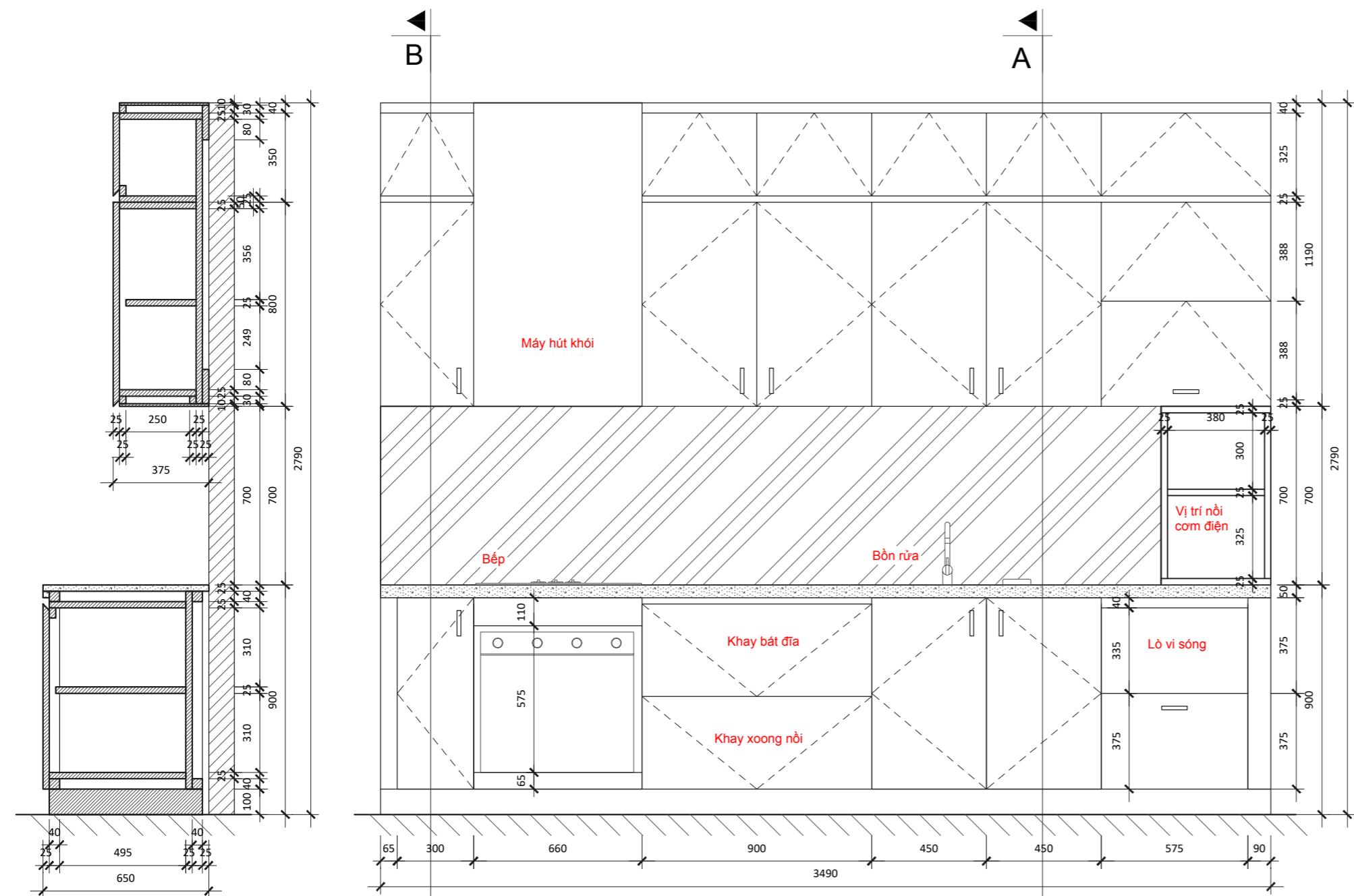
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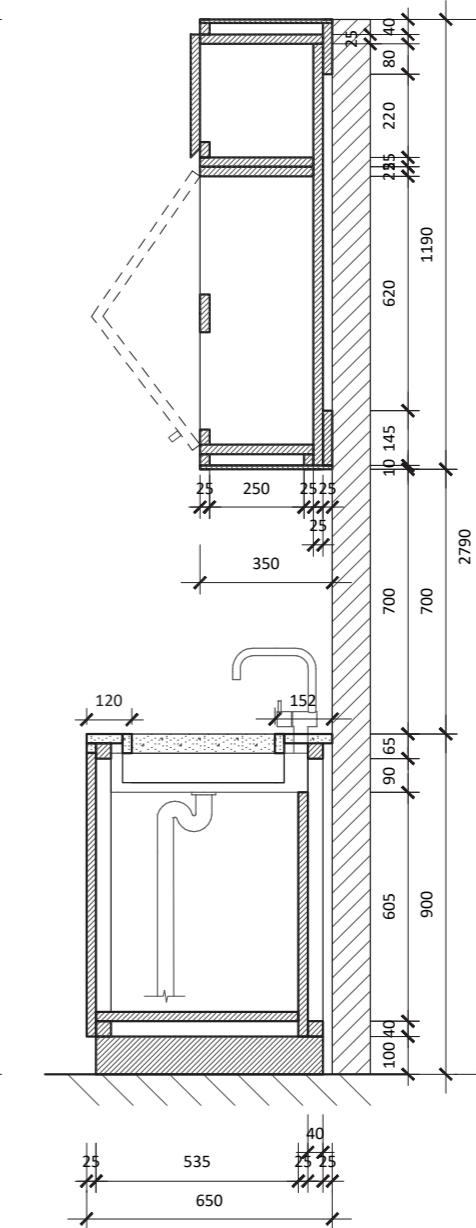
MẶT BẰNG TL 1/20



MẶT CẮT B-B' TL 1/20

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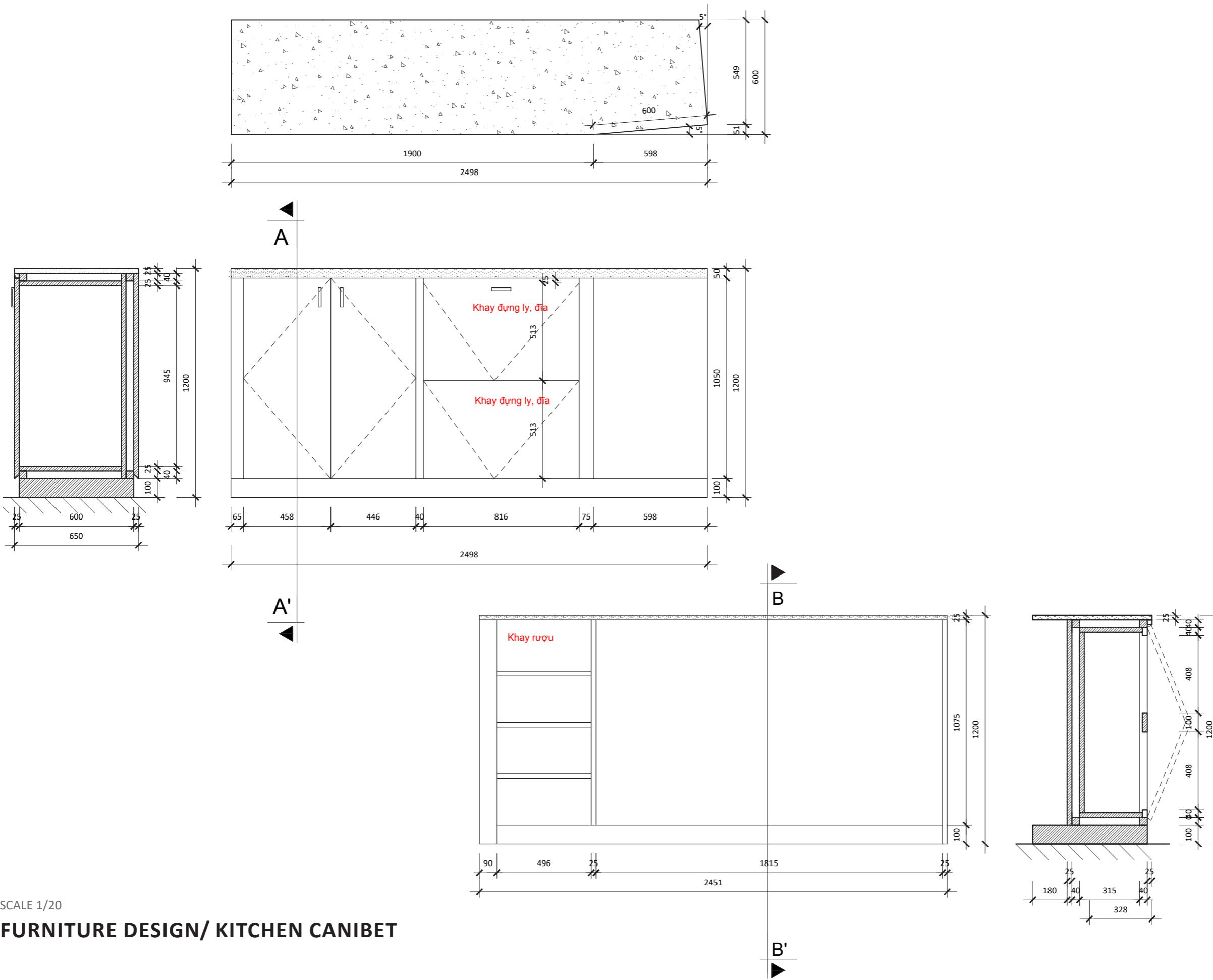
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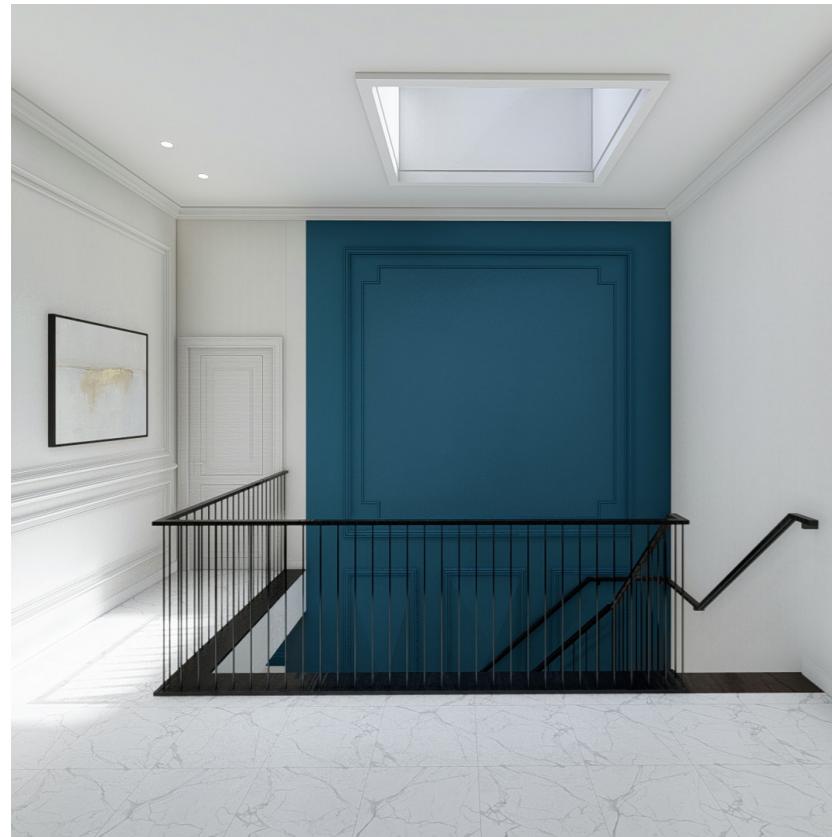
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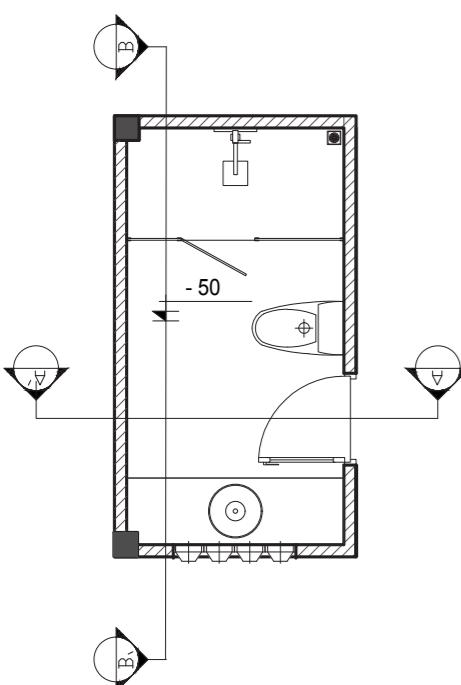
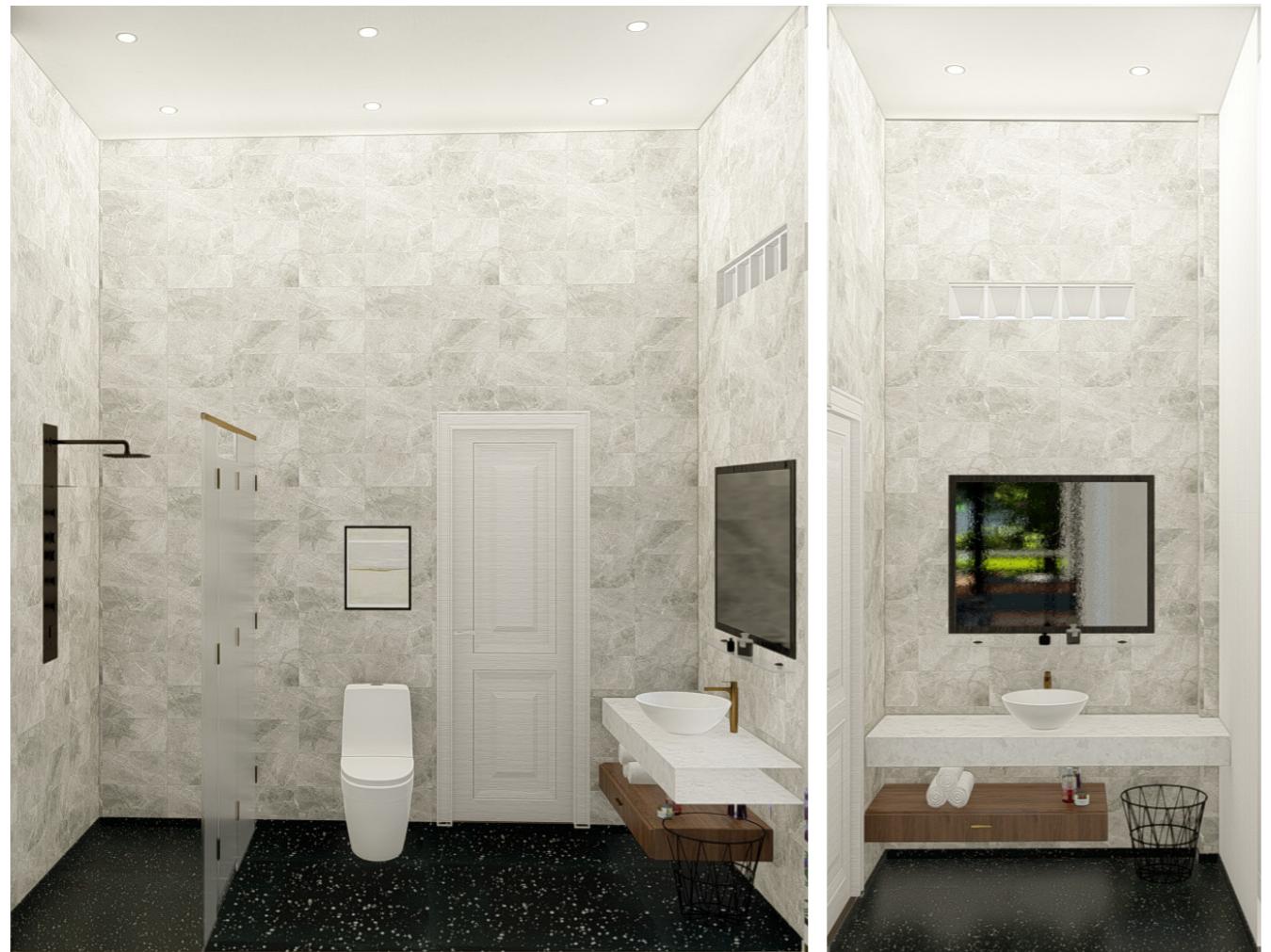
3D VISUALIZATION

DINING SPACE

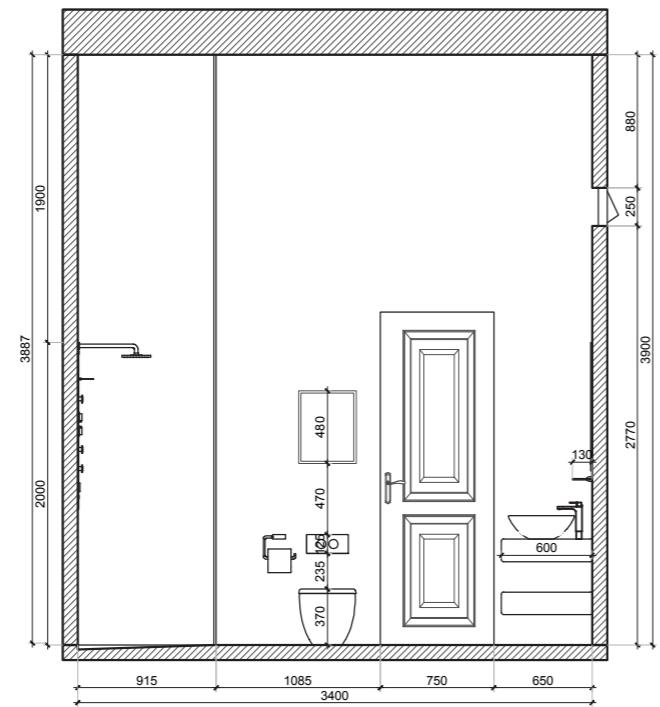


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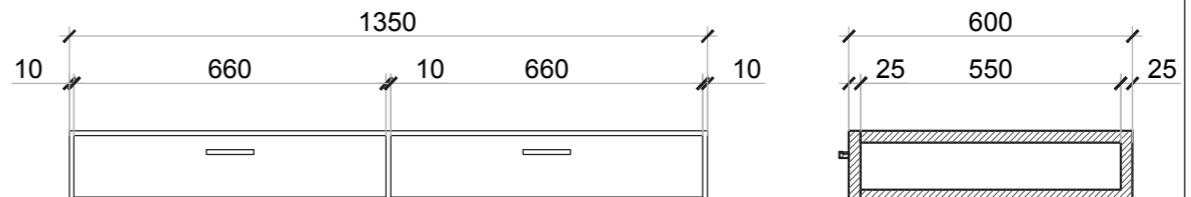
COMMON ROOMS



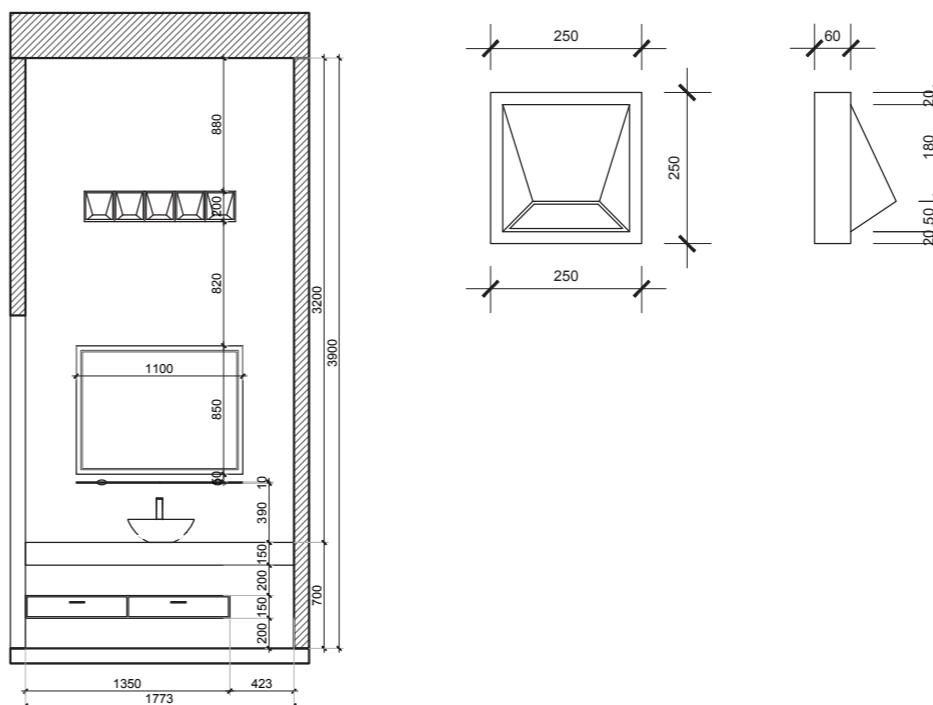
FLOOR 1
WC



FLOOR 1
ELEVATION A-A'

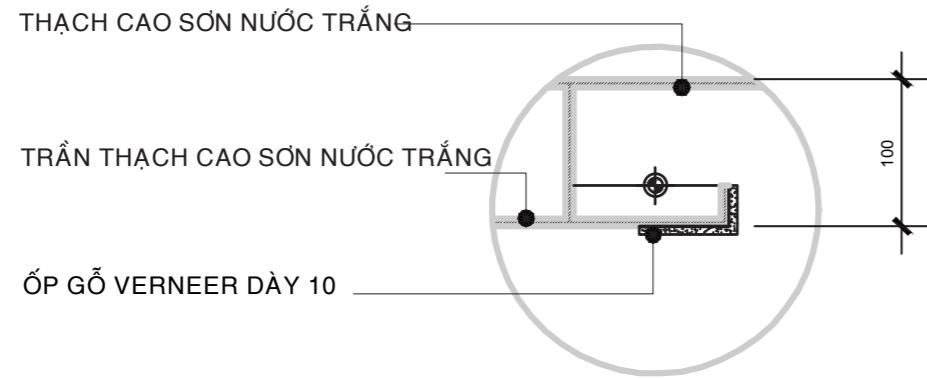


FLOOR 1
WC CANIBET



FLOOR 1
ELEVATION B-B'

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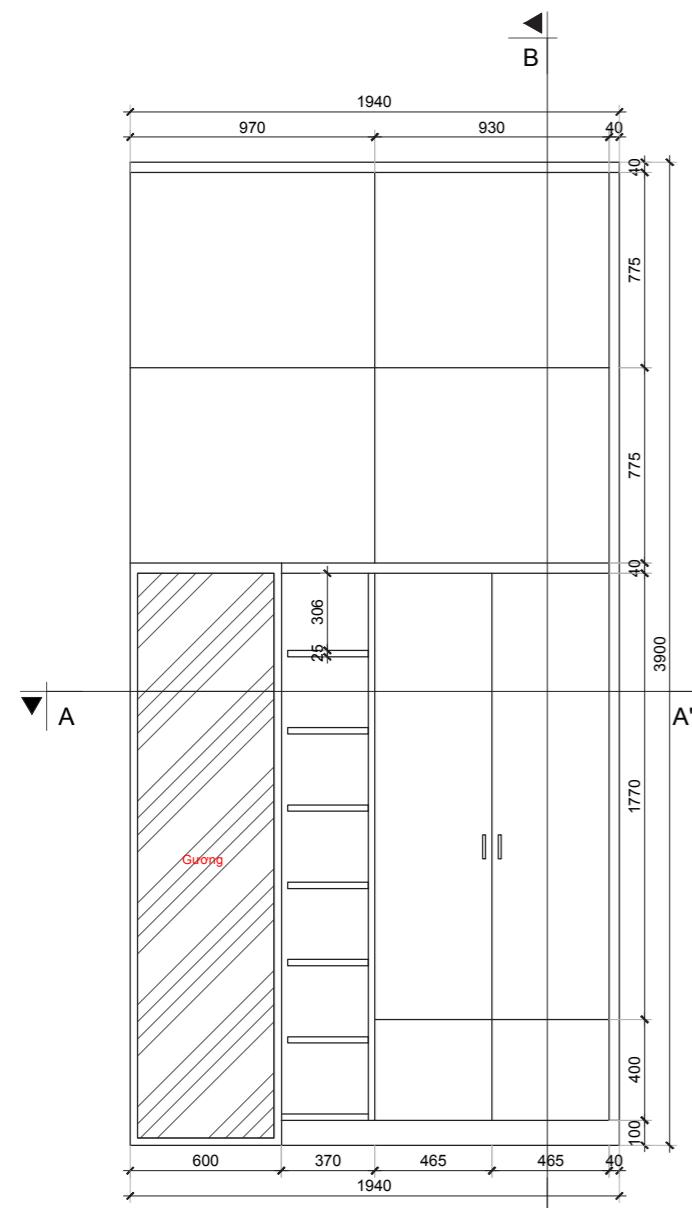


**DETAIL
FALL CEILING**

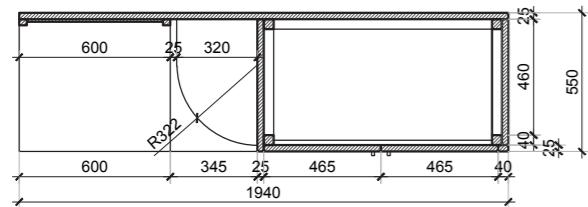


**3D VISUALIZATION
MASTER BEDROOM**

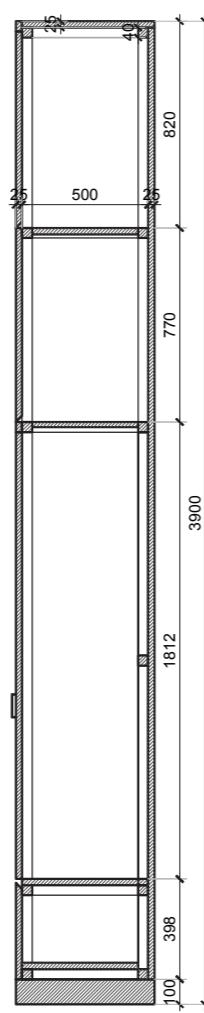
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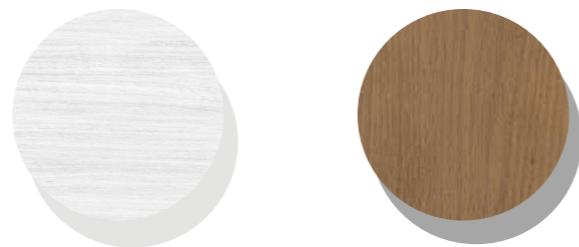
**WARDROBE SCALE 1/30
ELEVATION**



**SCALE 1/30
SECTION AA'**



**SCALE 1/30
SECTION BB'**



1/ WOOD TEXTURE TYPE 1
1/ WOOD TEXTURE TYPE 2



ELEVATION



PERSPECTIVE

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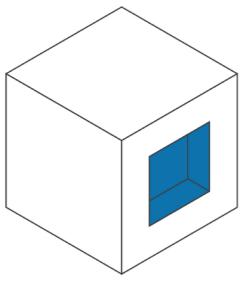
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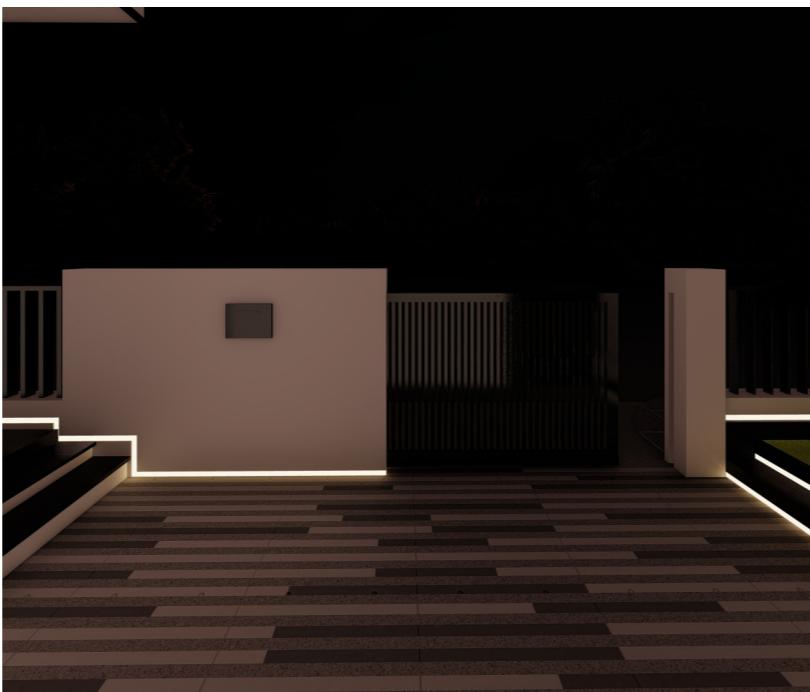
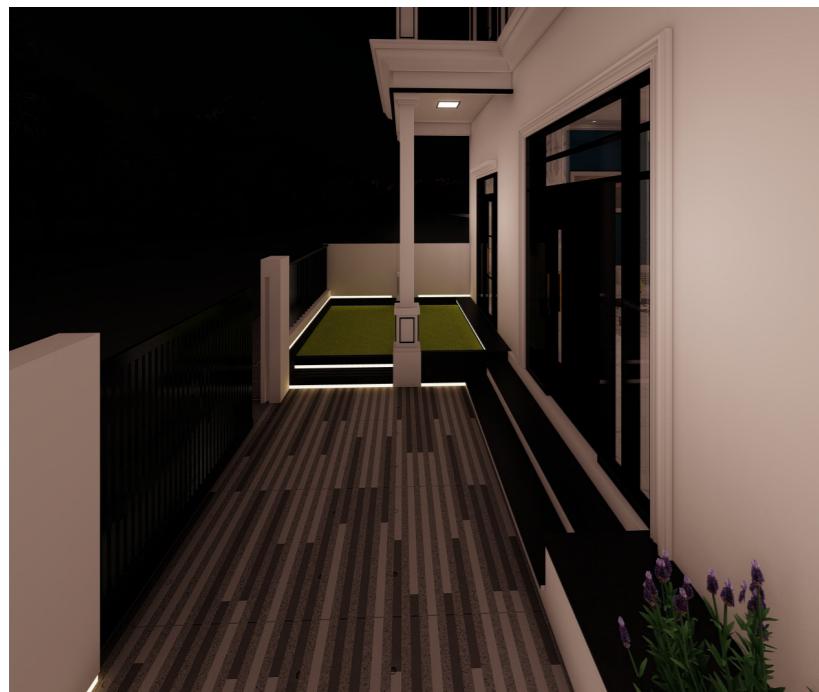
3D VISUALIZATION NIGHT OUTDOOR LIGHTING EFFECT



'Inside out' effect at night - a deeper dimension proposed by the combination of contradict interior and exterior colors.



Outdoor lightning is install for semi-spaces: small garden and the leading path from balcony to the gate.
This method helps to encourage outdoor time-spending in the evening.



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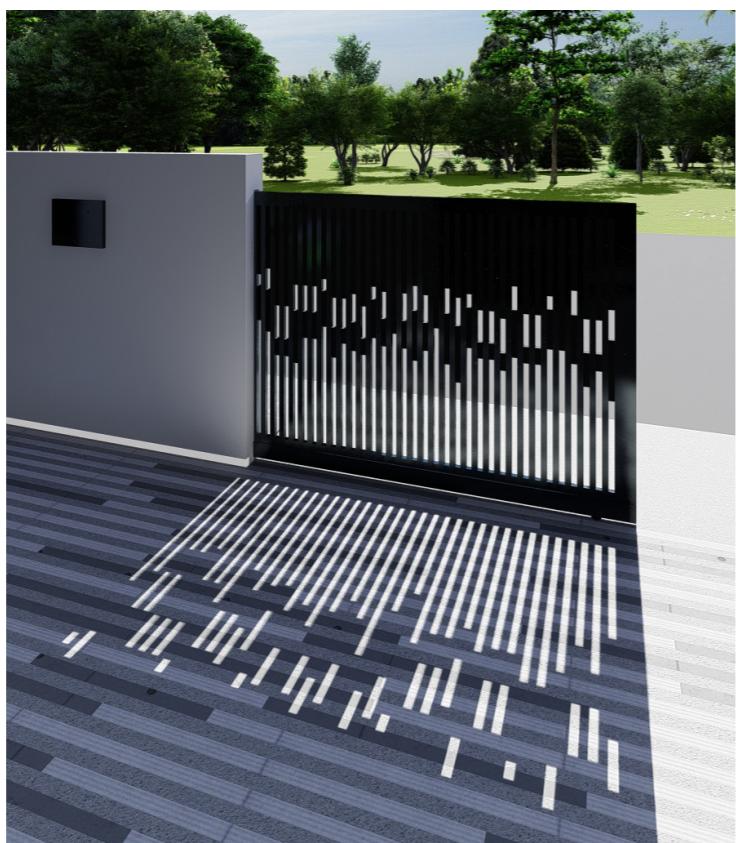
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3D VISUALIZATION

PATTERN DESIGN FOR LIGHTING EFFECT



3D VISUALIZATION

PATTERN DESIGN FOR LIGHTING EFFECT

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29. Interior/ Common - praying spaces F2
30. Interior/ WC & furniture
31. Interior/ Bedroom & furniture
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34. Pattern/ Parametric design

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35. Design process/ Experimentation & Iterations
36. Design process/ Methodology on information management

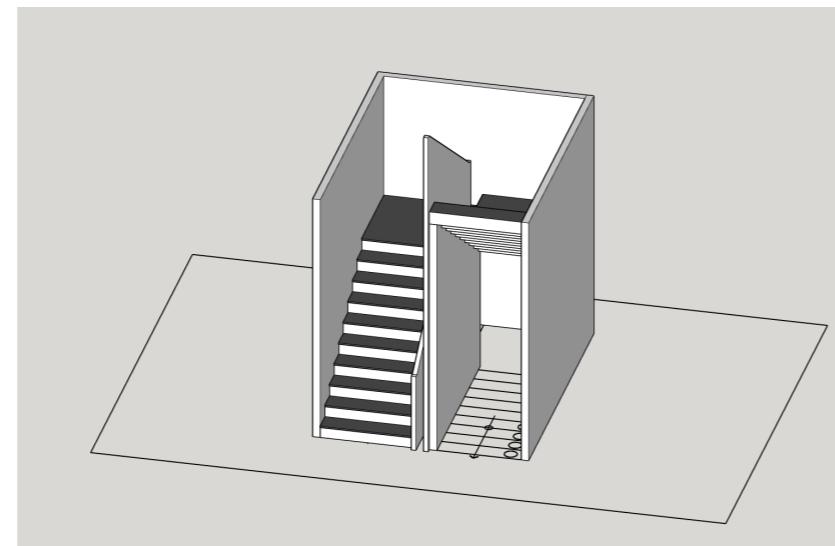
/ F

37. Remarks

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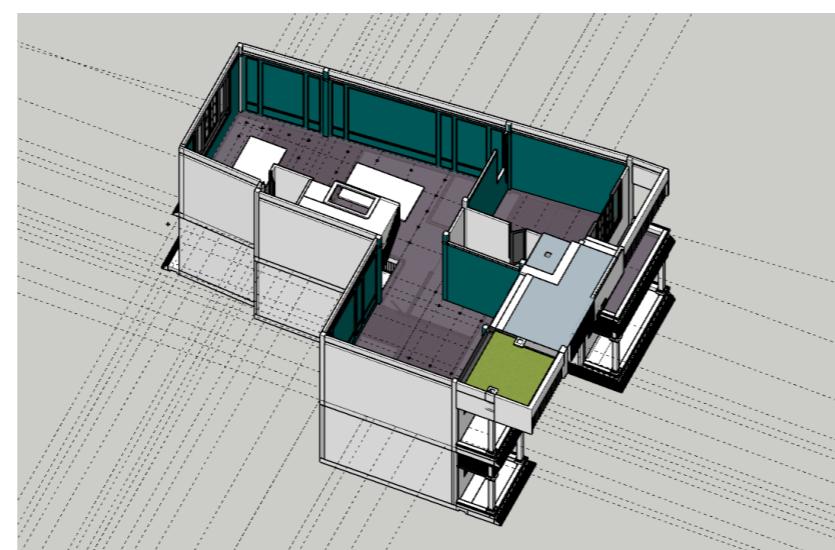
Exterior wall on balcony and window frame ideation



Initial staircase iteration



Pergola construction



Roof iterations

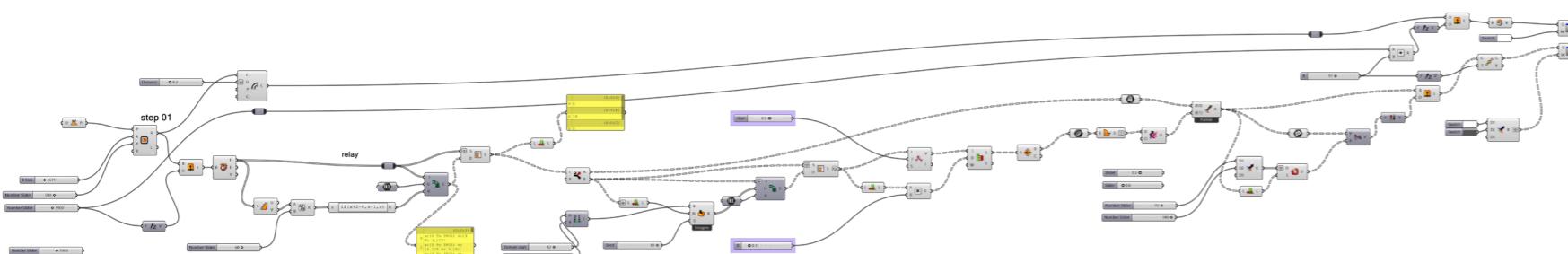
Allocating ceiling lights for rooms, spaces



Initial kitchen cabinet

EXPERIMENTATIONS, ITERATIONS, INFORMATION MANAGEMENT

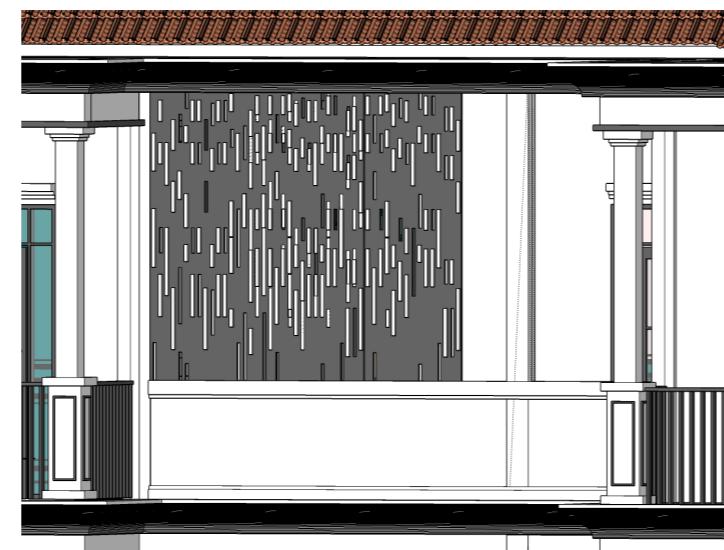
DESIGN PROCESS & METHODOLOGY



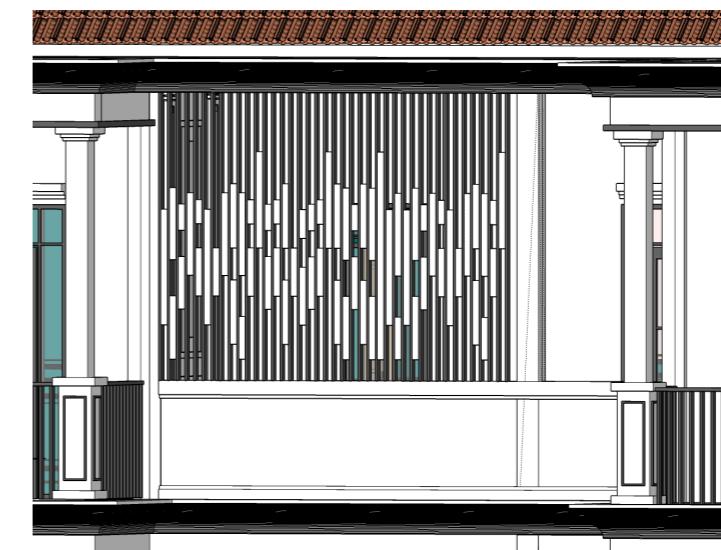
Rhino/ Grashopper for facade iterations



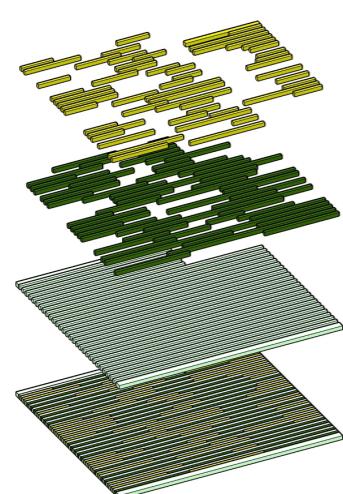
Installation's location



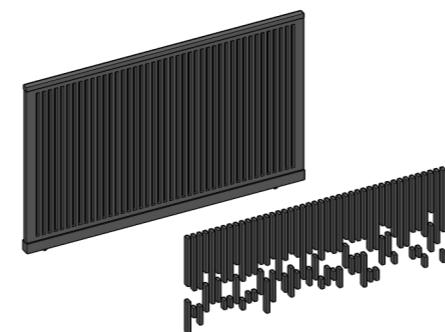
Iteration 1



Iteration 2



Other application: pavement design



Other application: gate pattern



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9. Architecture/ Roof plan/ dimension
10. Architecture/ Elevations
11. Architecture/ Sections
12. Architecture/ Door details
13. Architecture/ 3D visualizations

/ B

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15. Interior/ Floor (tiled) plan 2
16. Interior/ Ceiling plan 1
17. Interior/ Ceiling plan 2
18. Interior/ Lightning plan 1
19. Interior/ Lightning plan 2
20. Interior/ Outdoor Lightning plan
21. Interior/ Electrical plan 1
22. Interior/ Electrical plan 2
23. Interior/ Outdoor Electrical plan
24. Interior/ Power socket plan 1
25. Interior/ Power socket plan 2

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26. Interior/ Kitchen
27. Interior/ Kitchen/ Furniture
28. Interior/ Living - dining spaces F1
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INFORMATION MANAGEMENT

METHODOLOGY

Information management is necessary, especially during the process of design, there would be constant adjustments from different stakeholders, parts of projects. Complexity will arise. Methods of information management helps to cope with potential confusions from individual and team. During this project, various medias were categorized and separated into smaller topics & segments, upto >400 files (dwg, pdf, jpeg, lumion, skp...) linked through methods of file naming, xref & shortcut. Finally, submission files is compressed into a smaller amount files for sumission by cleaning up all previous segments.

Method 1: Folder preparation

 HOME PAGE WIP files, shortcuts from other sources which need quick accessed

 INFO Information regarding project

 SKETCHUP PROCESS 3D modelling content

 IMAGE Illustration, publication, portfolio

 LUMION PROCESS Rendering, export & review for 3D visualization

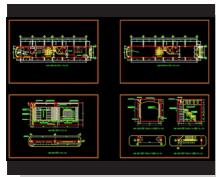
 CAD PROCESS Autocad content

Method 2: Categorization

Autocad files are separated for smaller segments following certain categories (of concept), to be easy for updating new contents. All segments are linked through XREF method in the software.

 CA-01 MAIN PLAN.DWG
 CA-02 DETACHED STAIRCASE.DWG
 CA-03 REFERENCE BEDROOM.DWG

Method 3: File naming



Each category is updated day-to-day process. New files will be added along the process. Naming file follows time-frame helps easily to manage new updates: yyymmdd.

 CA-01 MAIN PLAN.DWG
 CA-01 MAIN PLAN VERS230201.DWG
 CA-01 MAIN PLAN VERS230202.DWG

 CA-02 DETACHED STAIRCASE.DWG
 CA-02 DETACHED STAIRCASE VERS230201.DWG
 CA-02 DETACHED STAIRCASE VERS230202.DWG

Method 4: Shortcuts

Shortcuts helps to minimize time for retrieving files from folders during the process. They can be deleted when the task is done.

 HOME PAGE/
 CA-01 MAIN PLAN.DWG SHORTCUT
 CA-02 DETACHED STAIRCASE VERS230201.DWG SHORTCUT

Method 5: Cleaning up

All segments can be cleaned up when the stage (of project) is finished. The submitted file is the first category with the latest date version.

 CA-01 MAIN PLAN.DWG
 CA-01 MAIN PLAN VERS230201.DWG
 CA-01 MAIN PLAN VERS230202.DWG

 CA-02 DETACHED STAIRCASE.DWG
 CA-02 DETACHED STAIRCASE VERS230201.DWG
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REMARK 1/6
LIVING ROOM



REMARK 2/6

KITCHEN & BAR



REMARK 3/6
HALLWAY



REMARK 4/6
BEDROOM



REMARK 5/6

NATURAL SUNLIGHT EFFECT ON WALLS OF BALCONY & ROOM



REMARK 5/6

MINI GARDEN



REMARK 6/6

NIGHT BARBECUE

END.