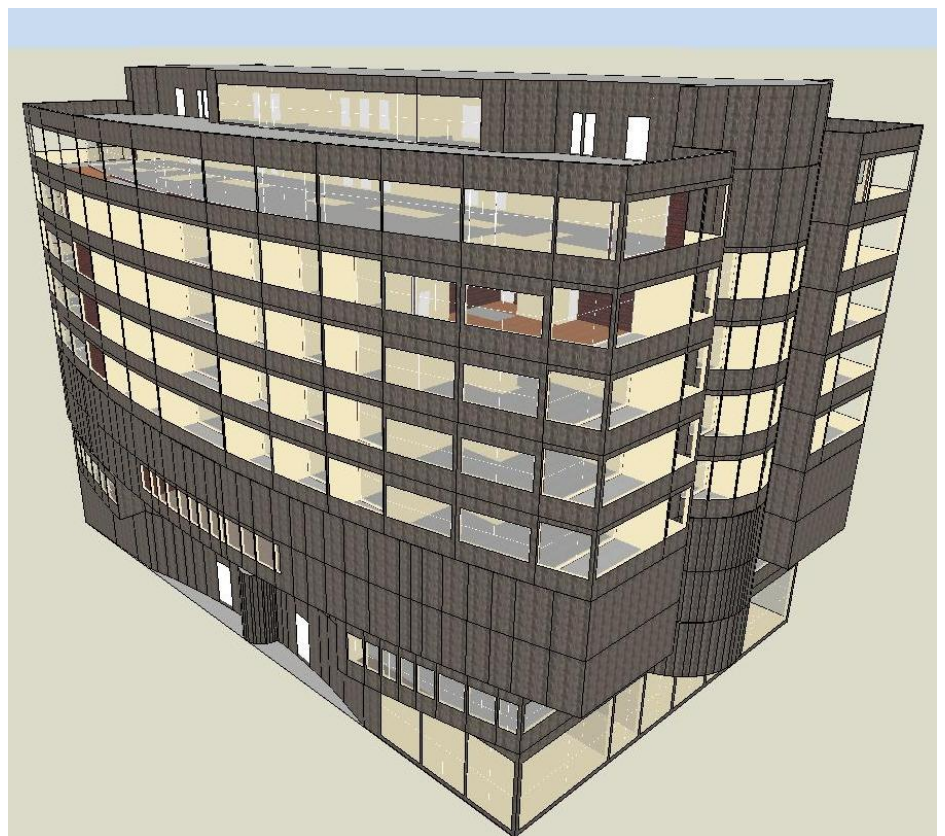
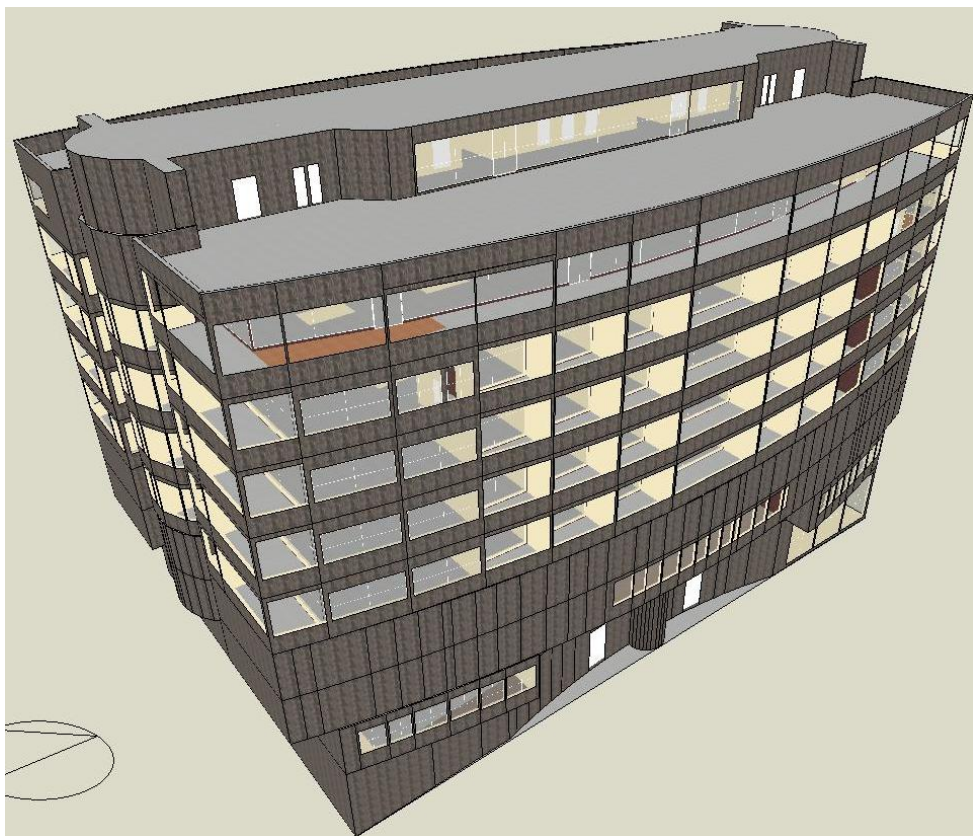
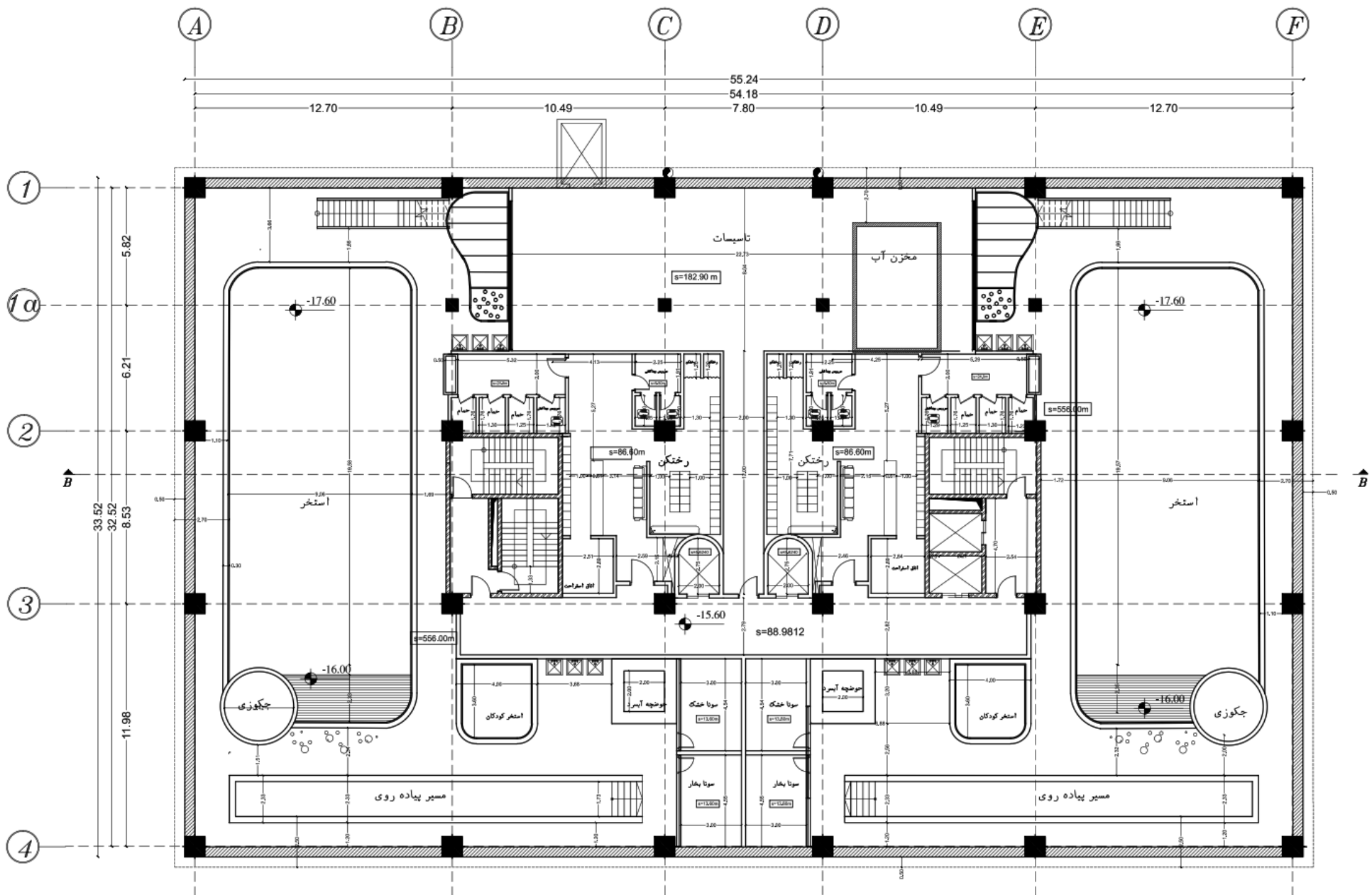
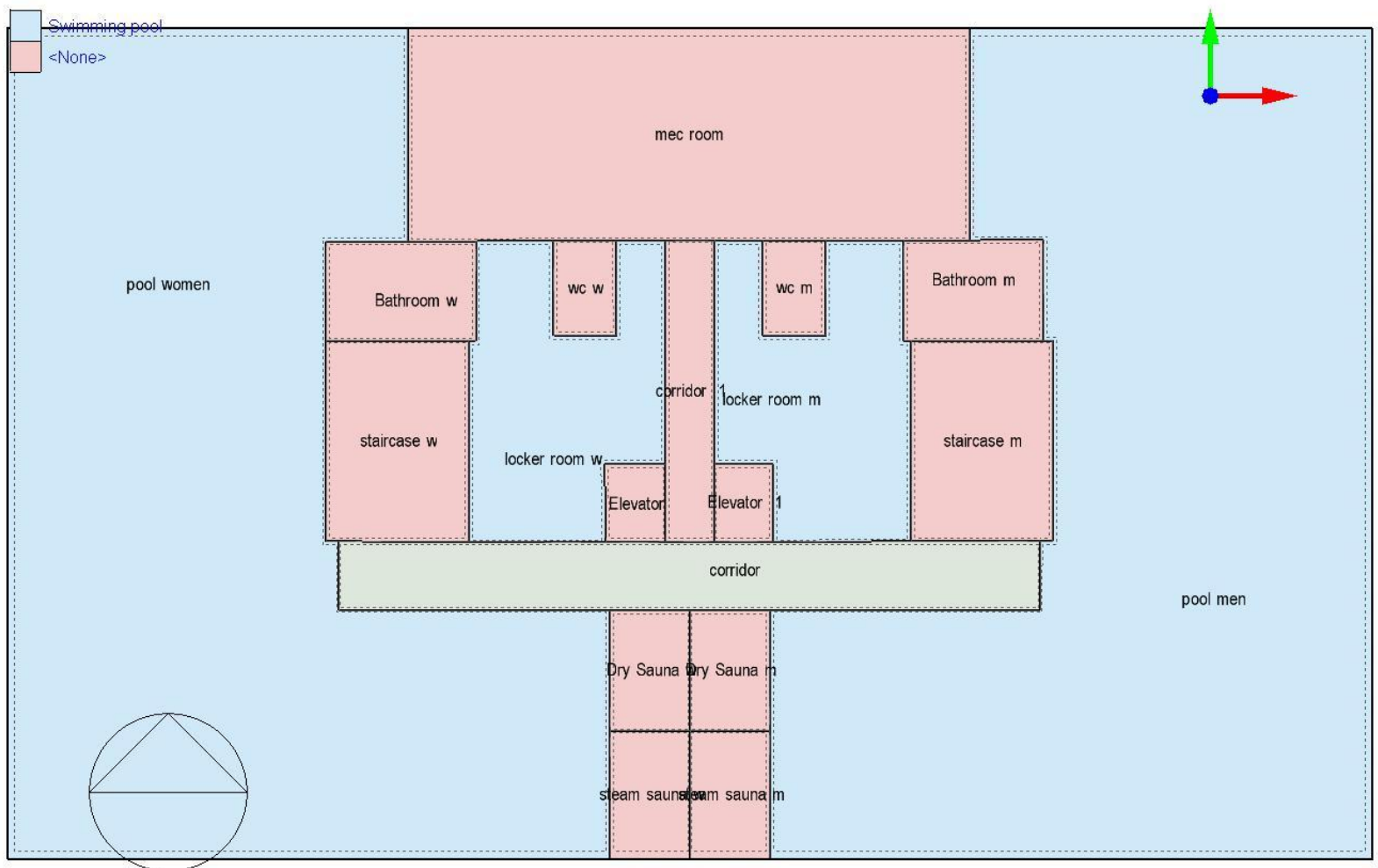


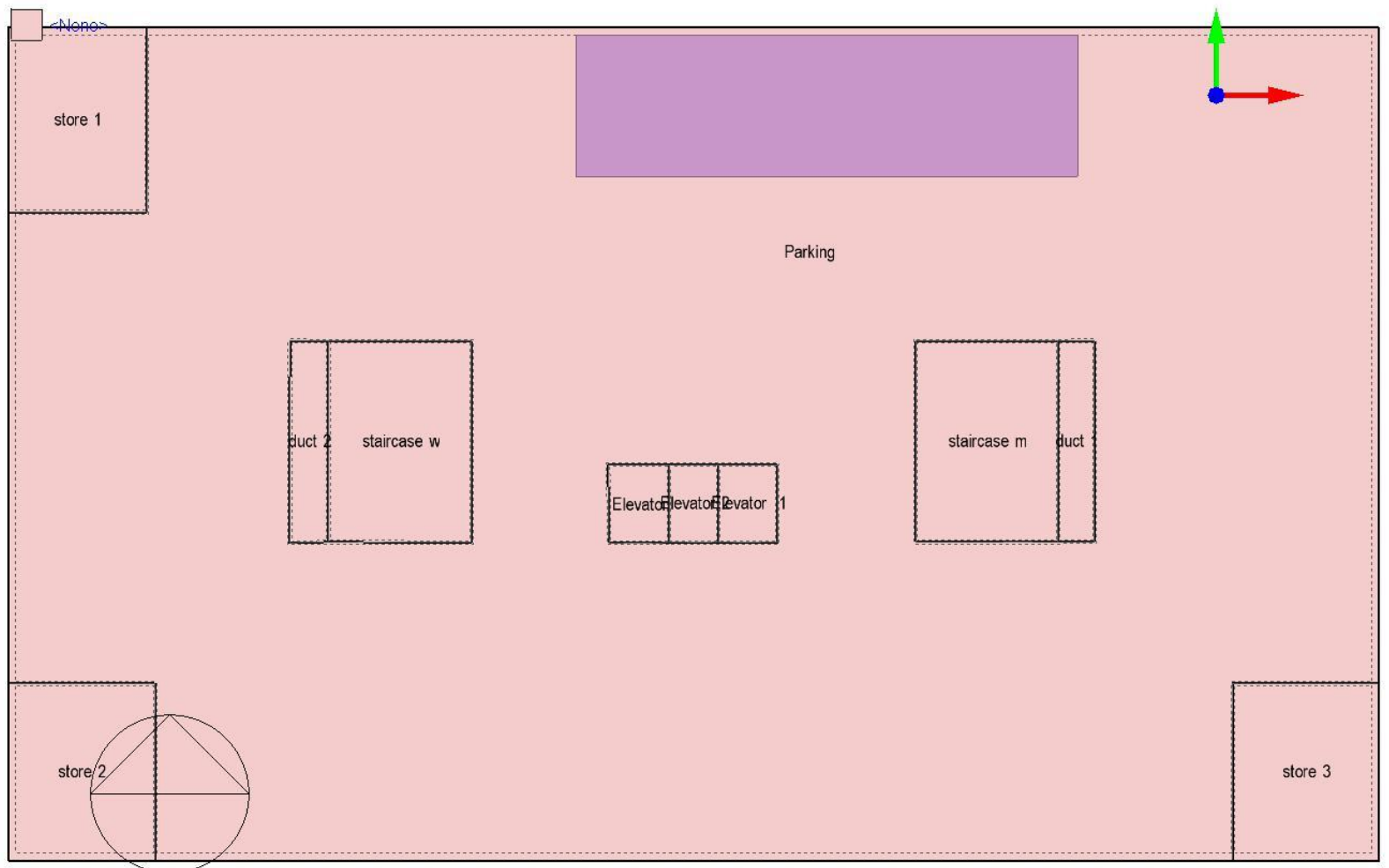
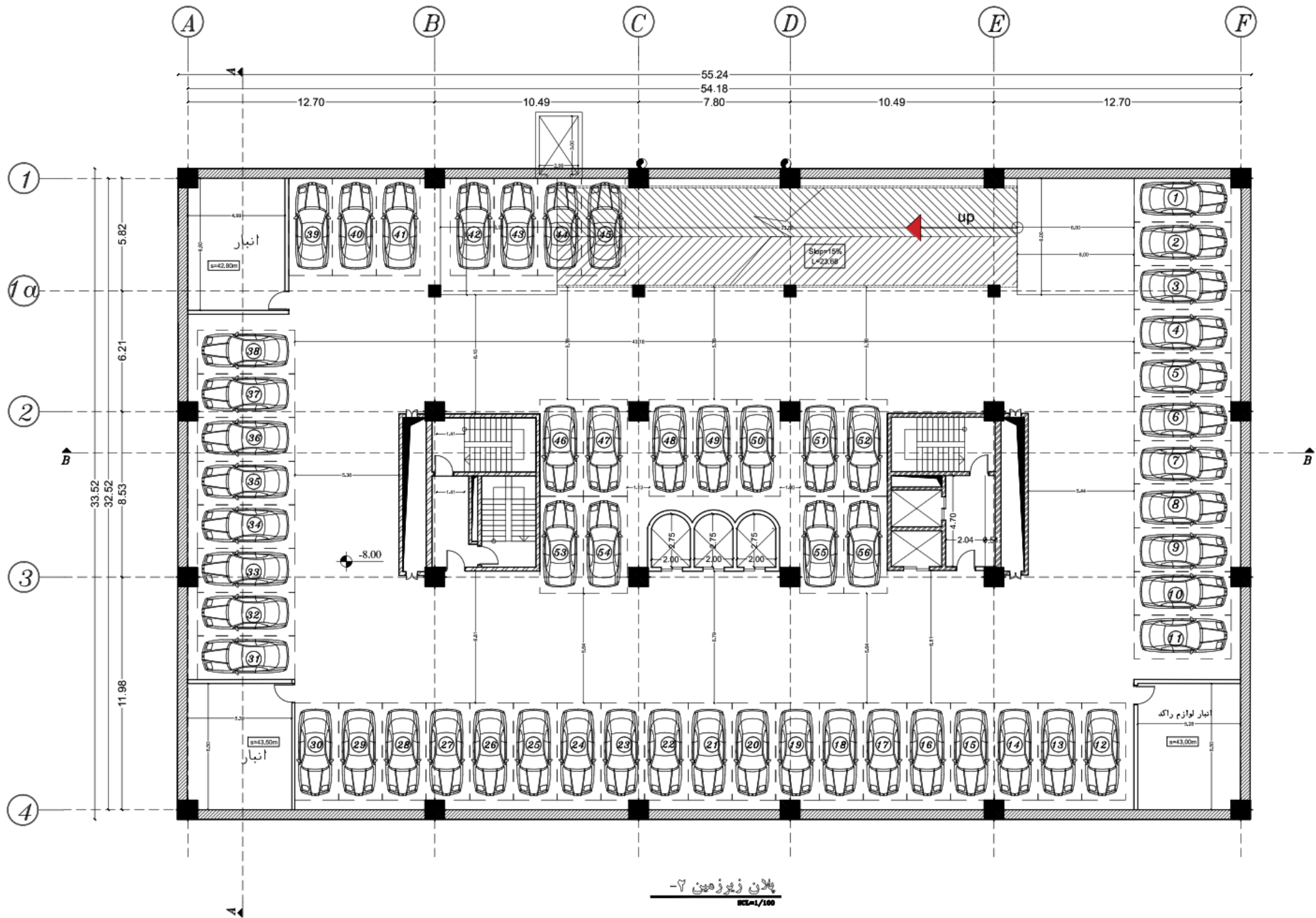
HOTEL PROJECT

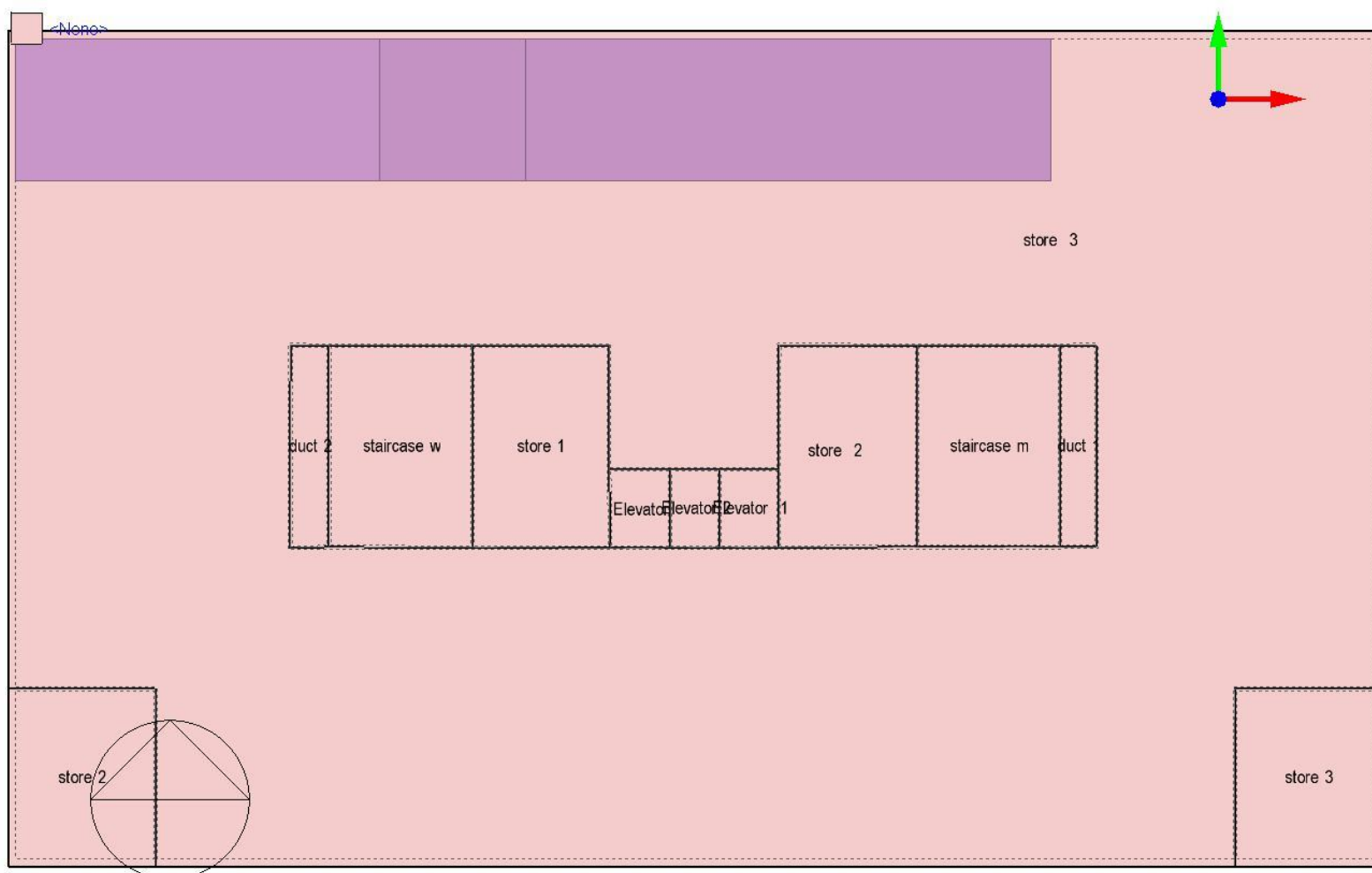
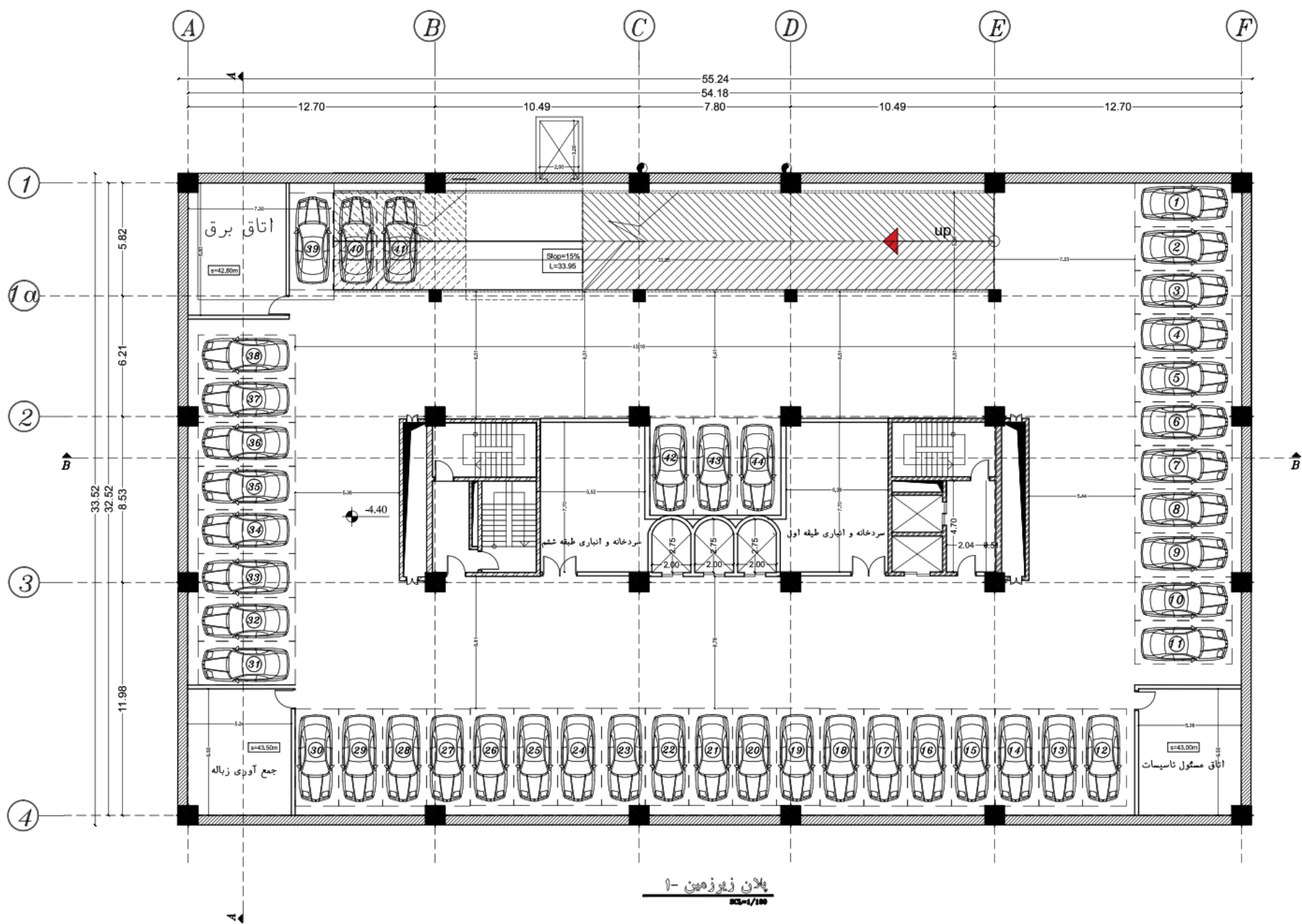


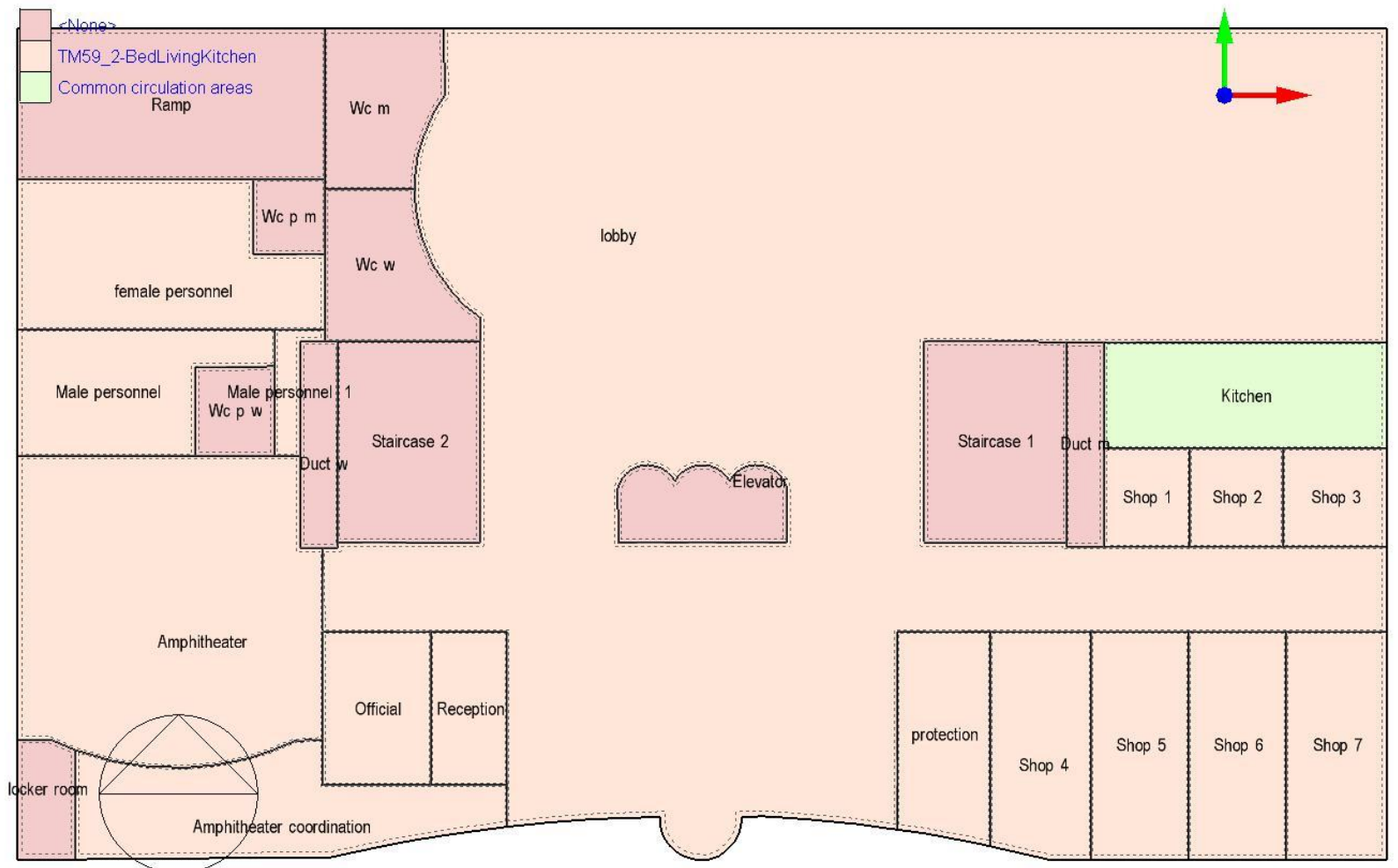
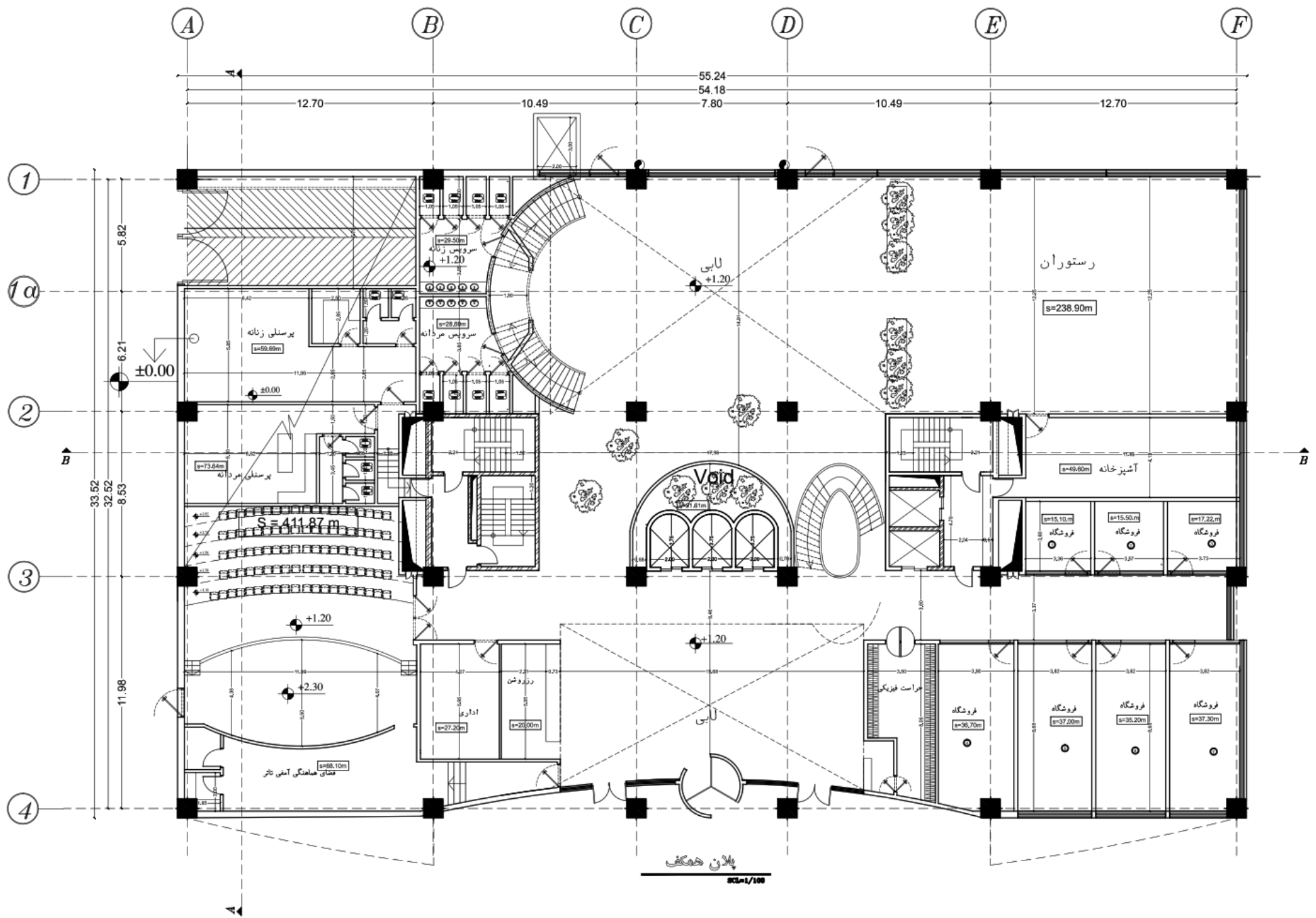


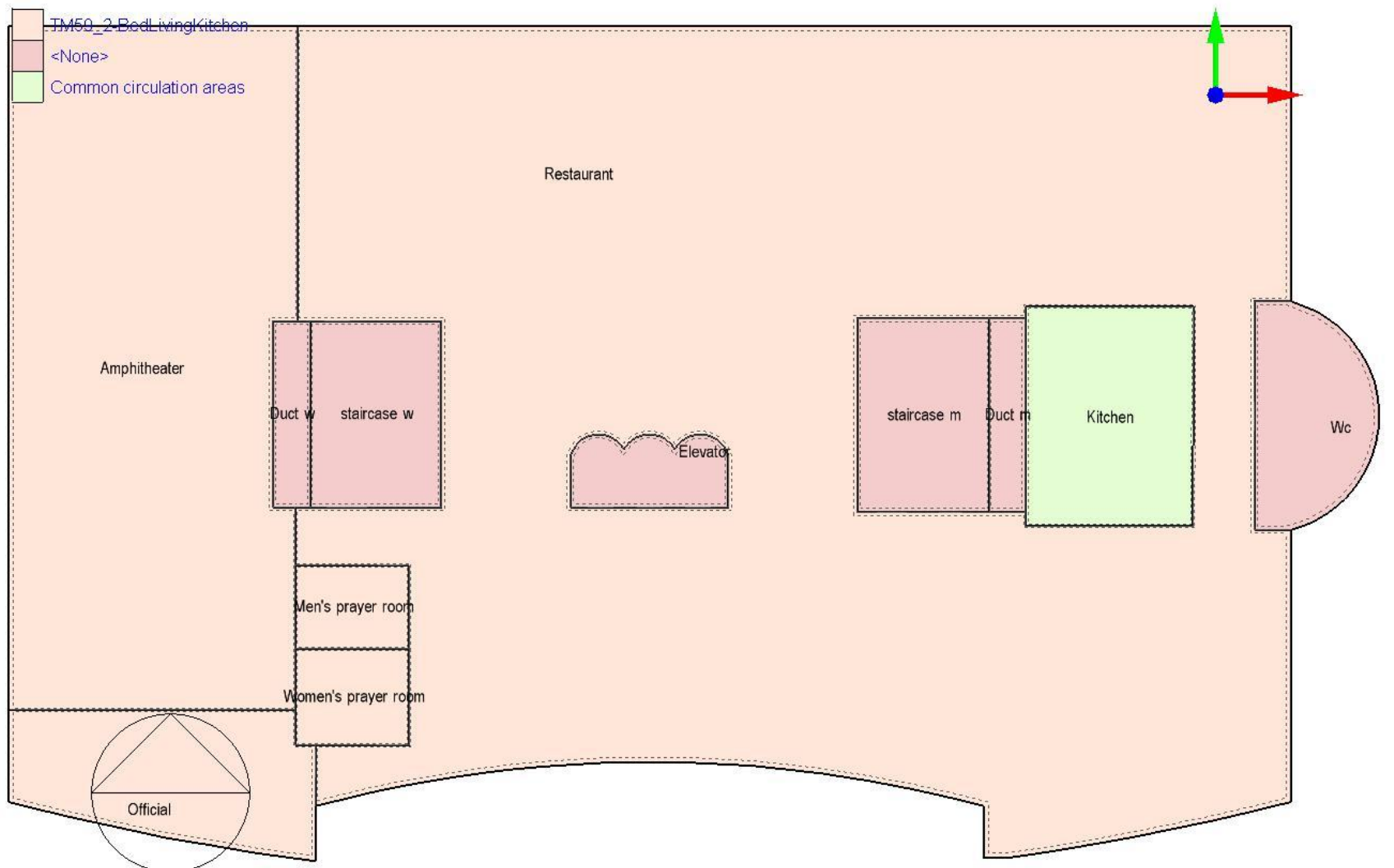
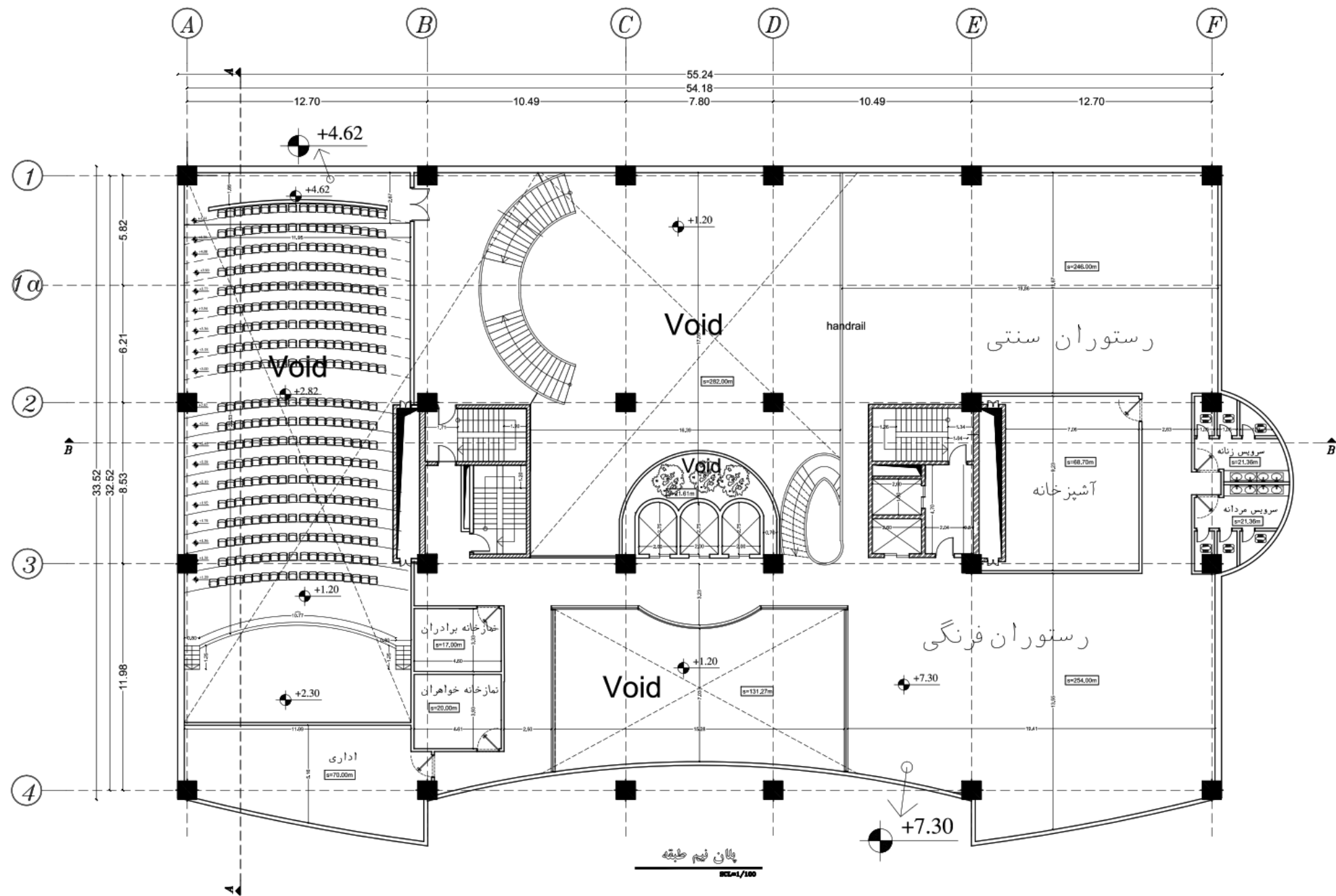
پلان زیرزمین ۳-
 1/100

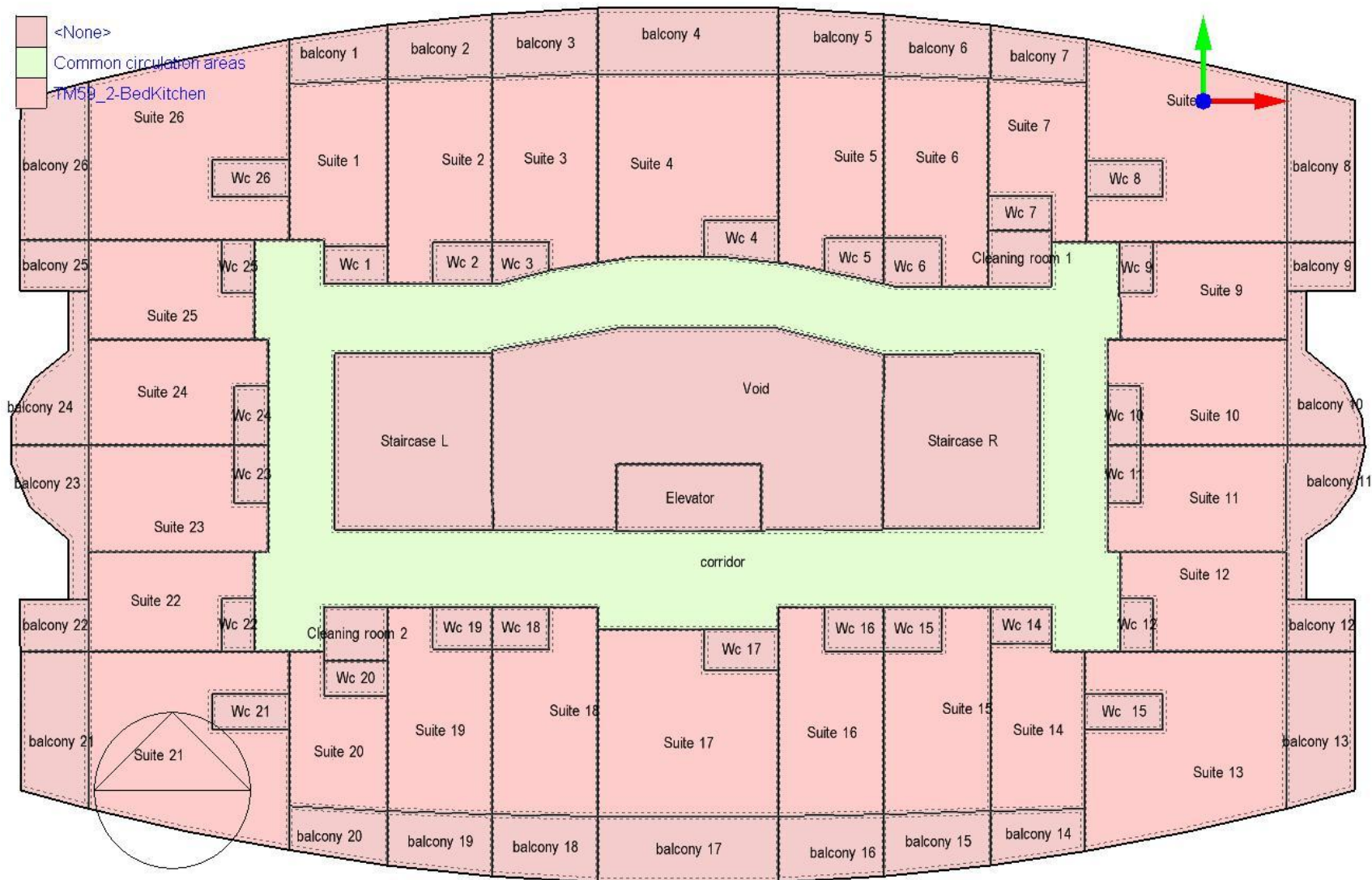
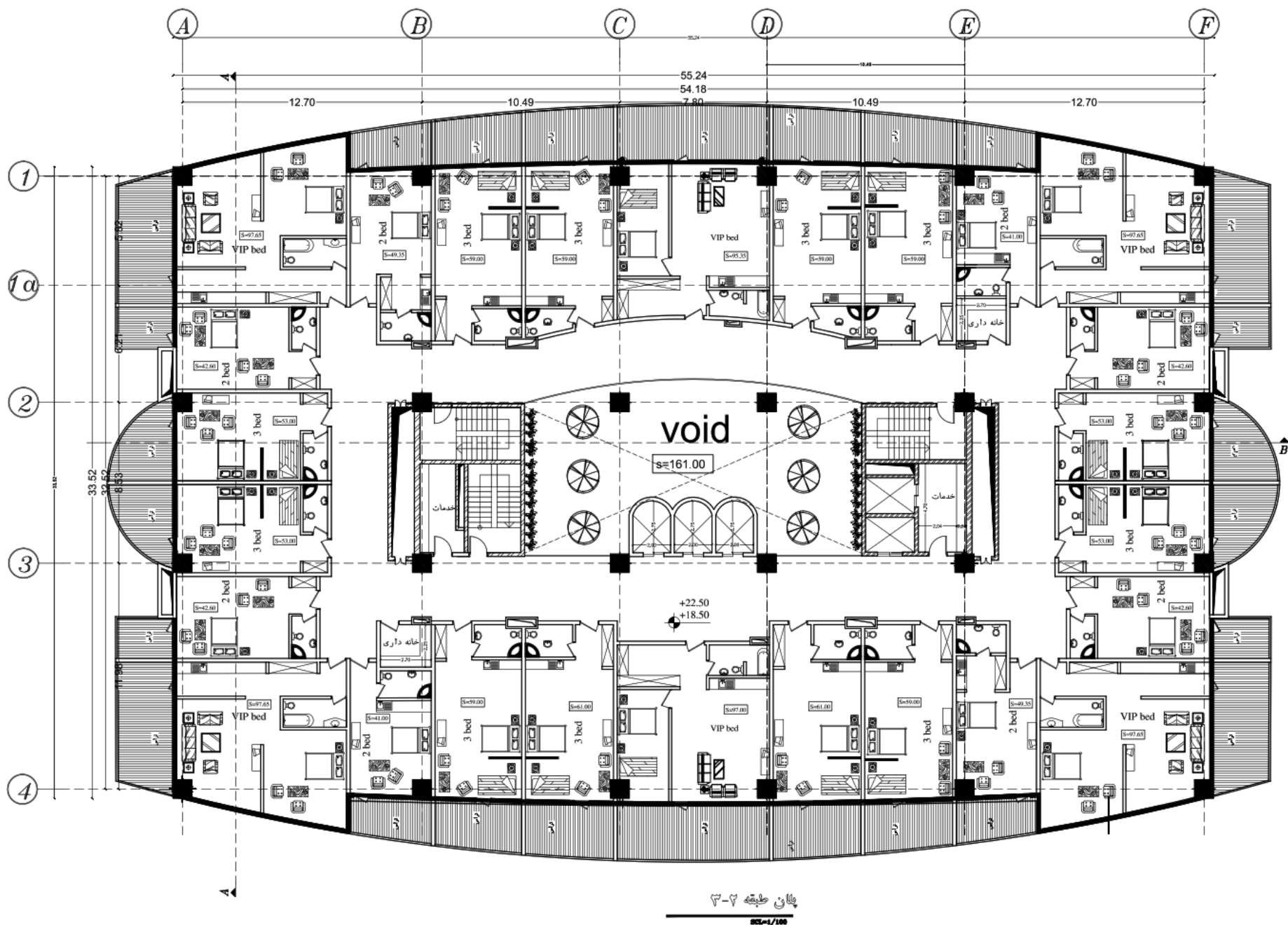


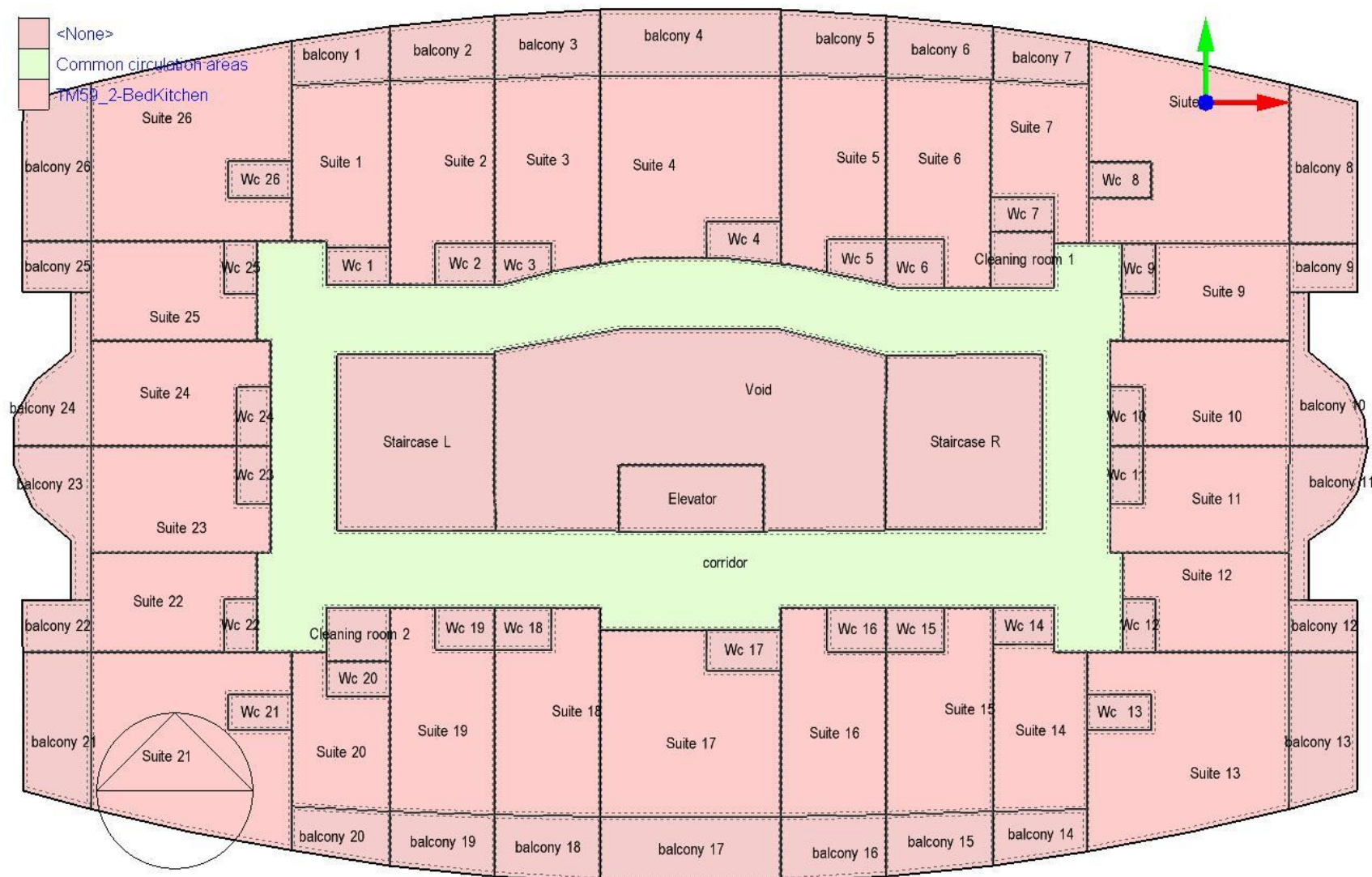
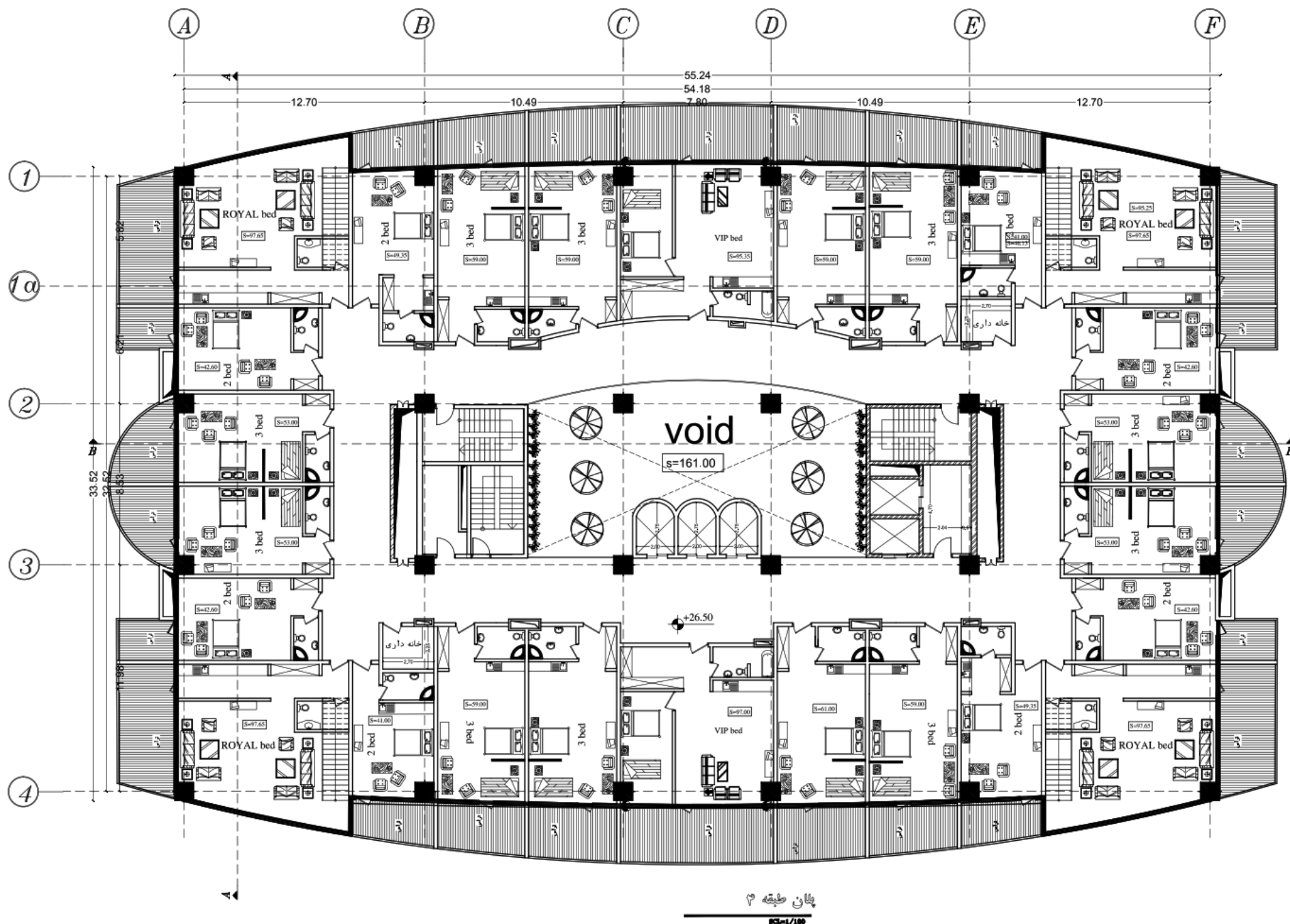


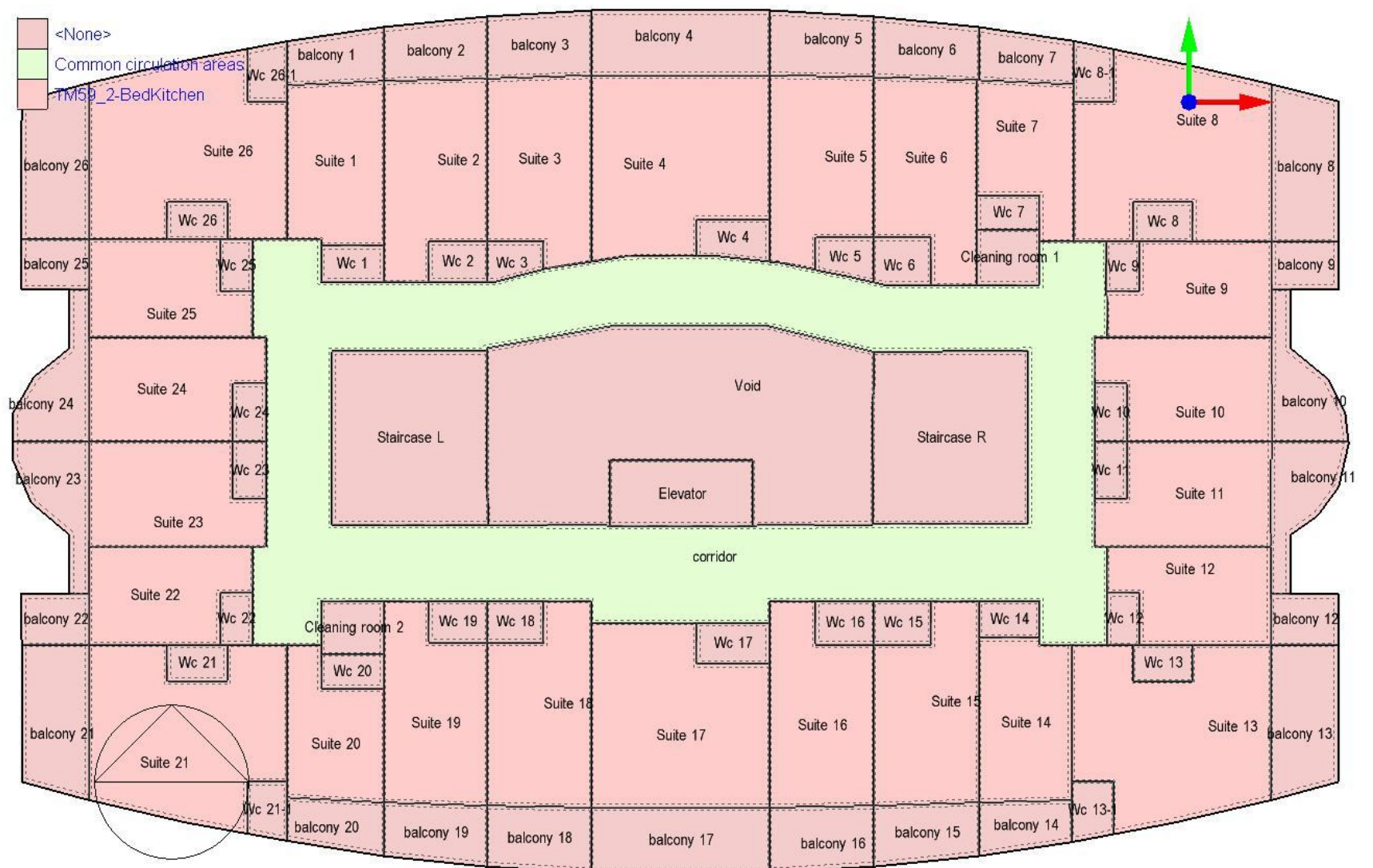
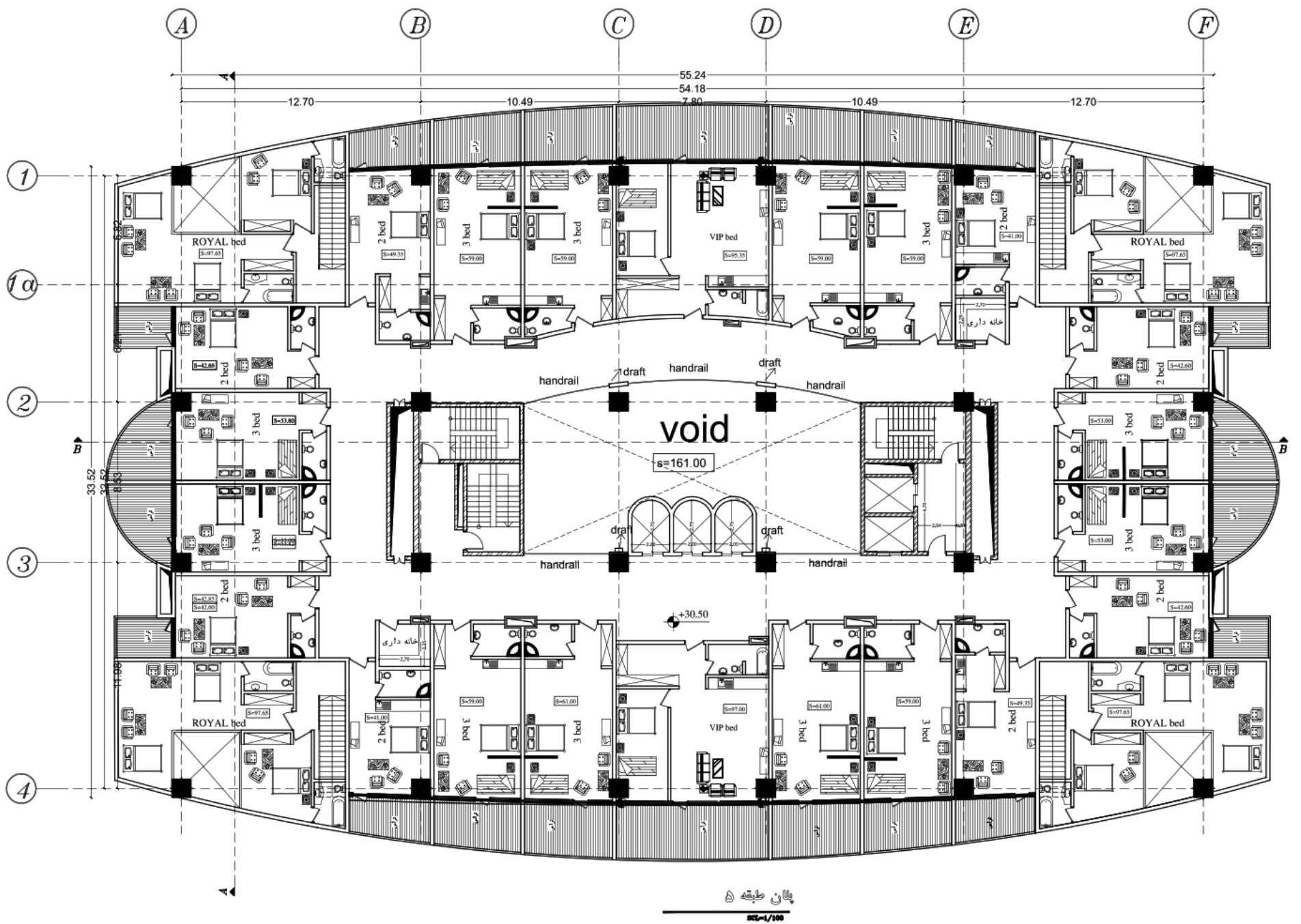


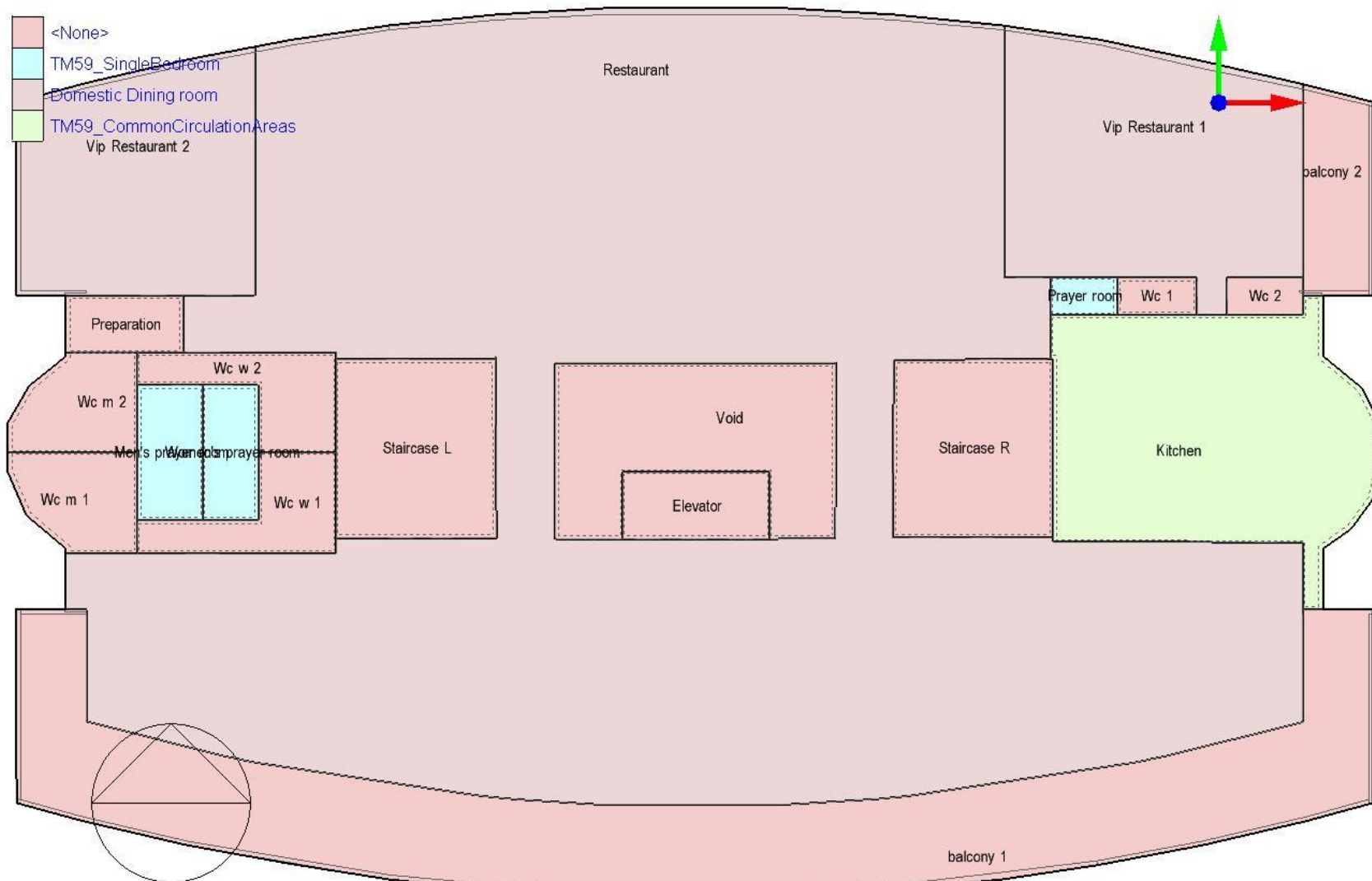
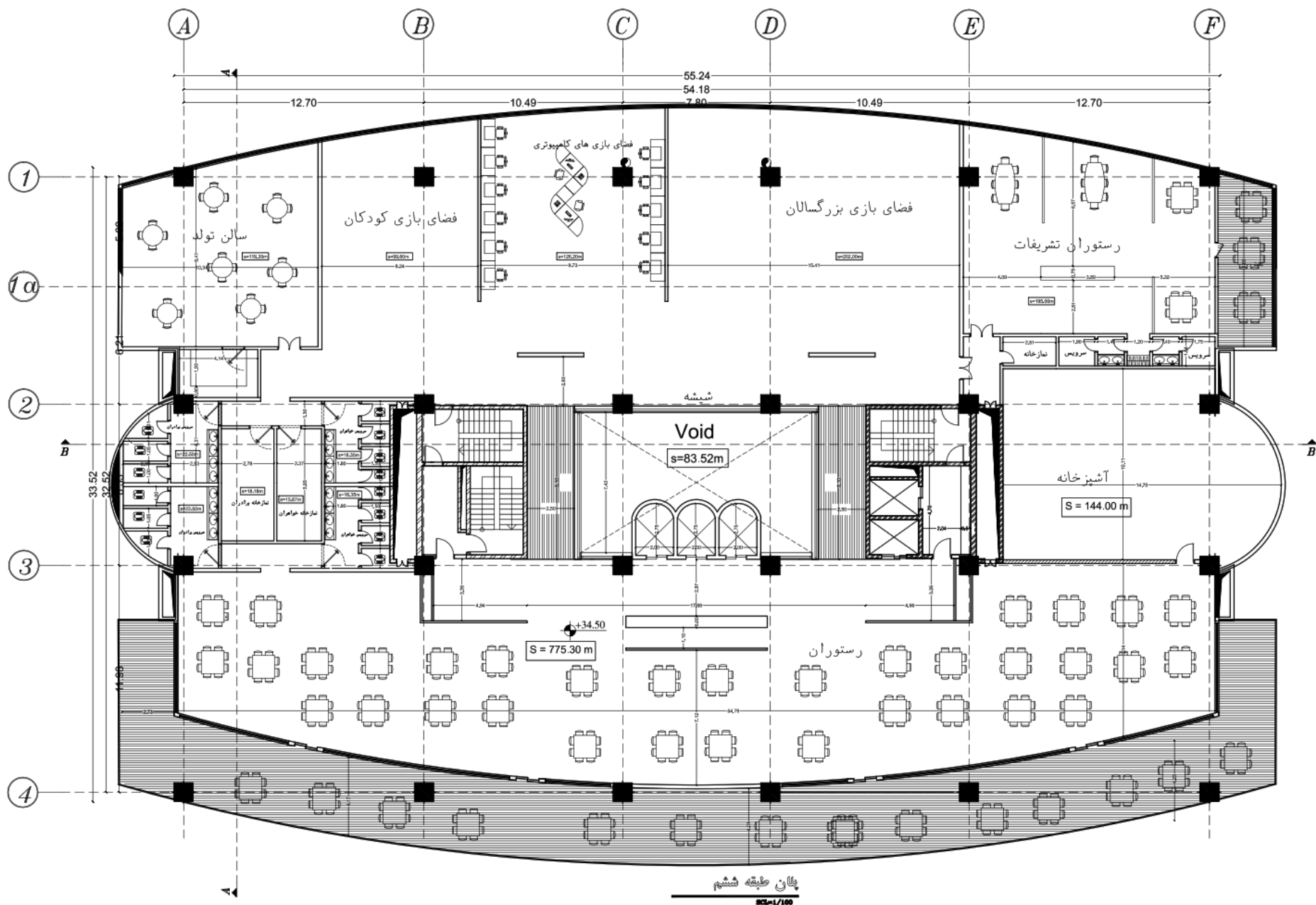


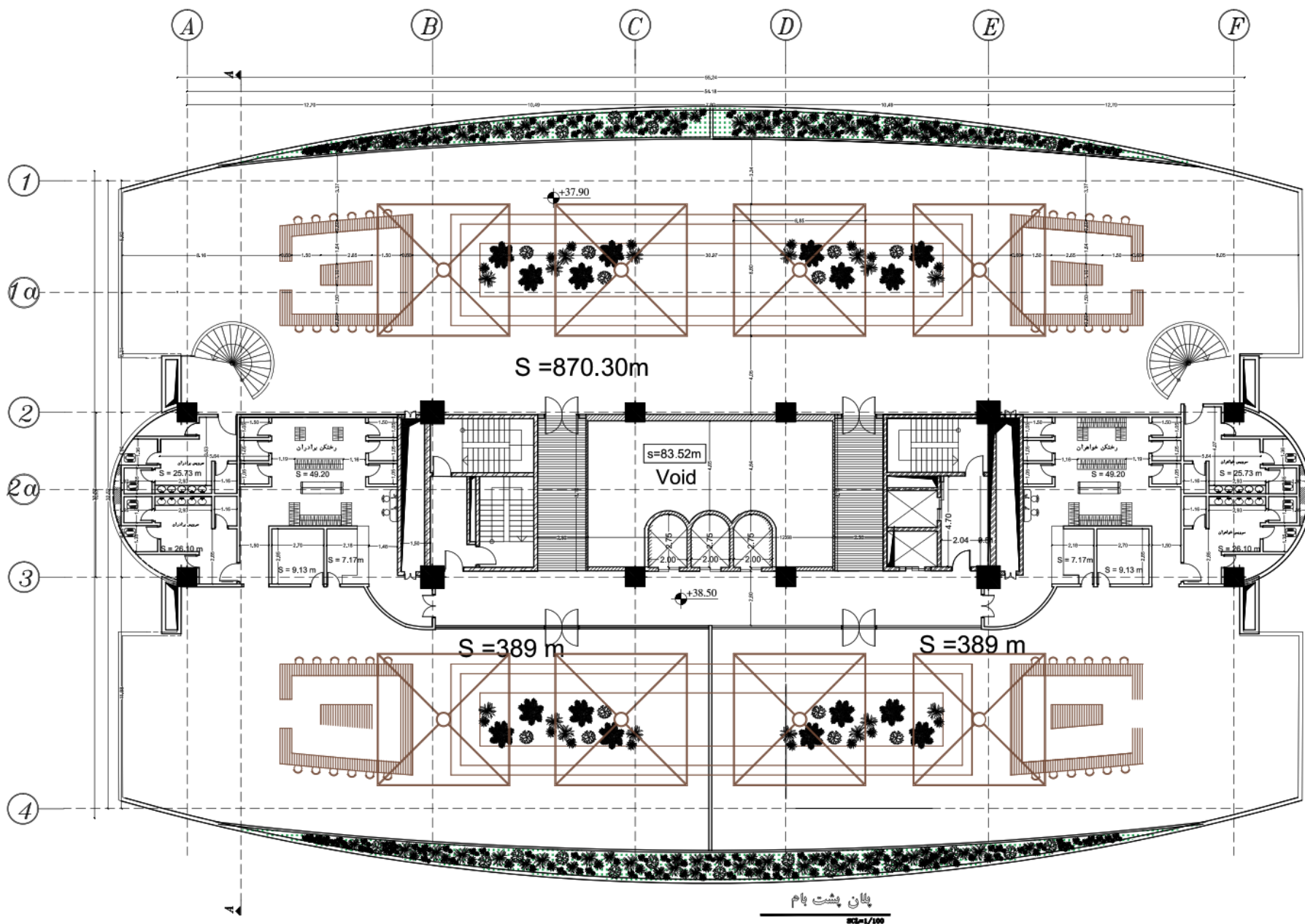




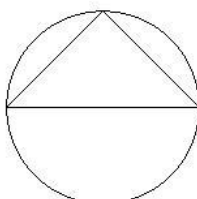
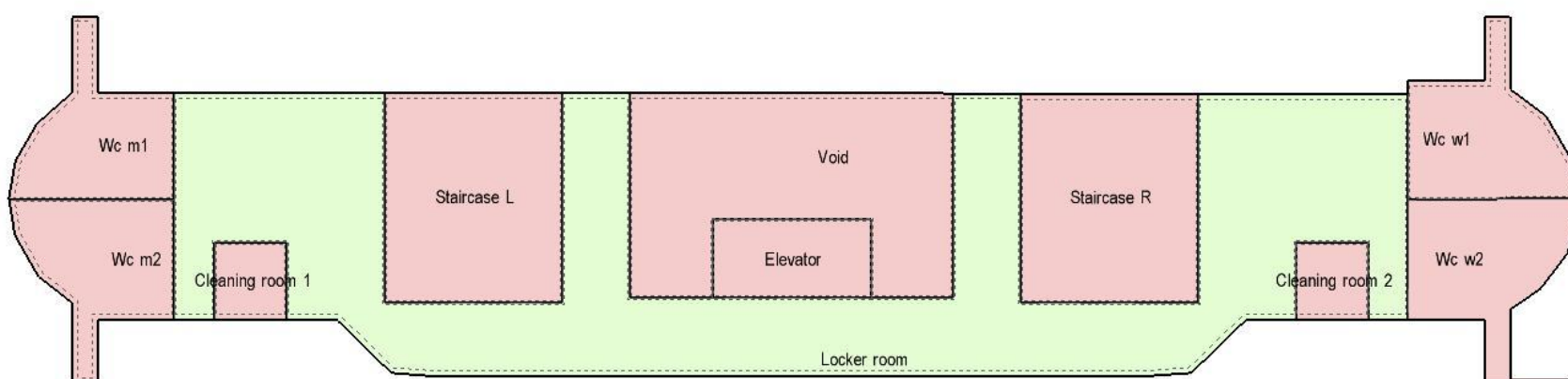
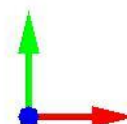


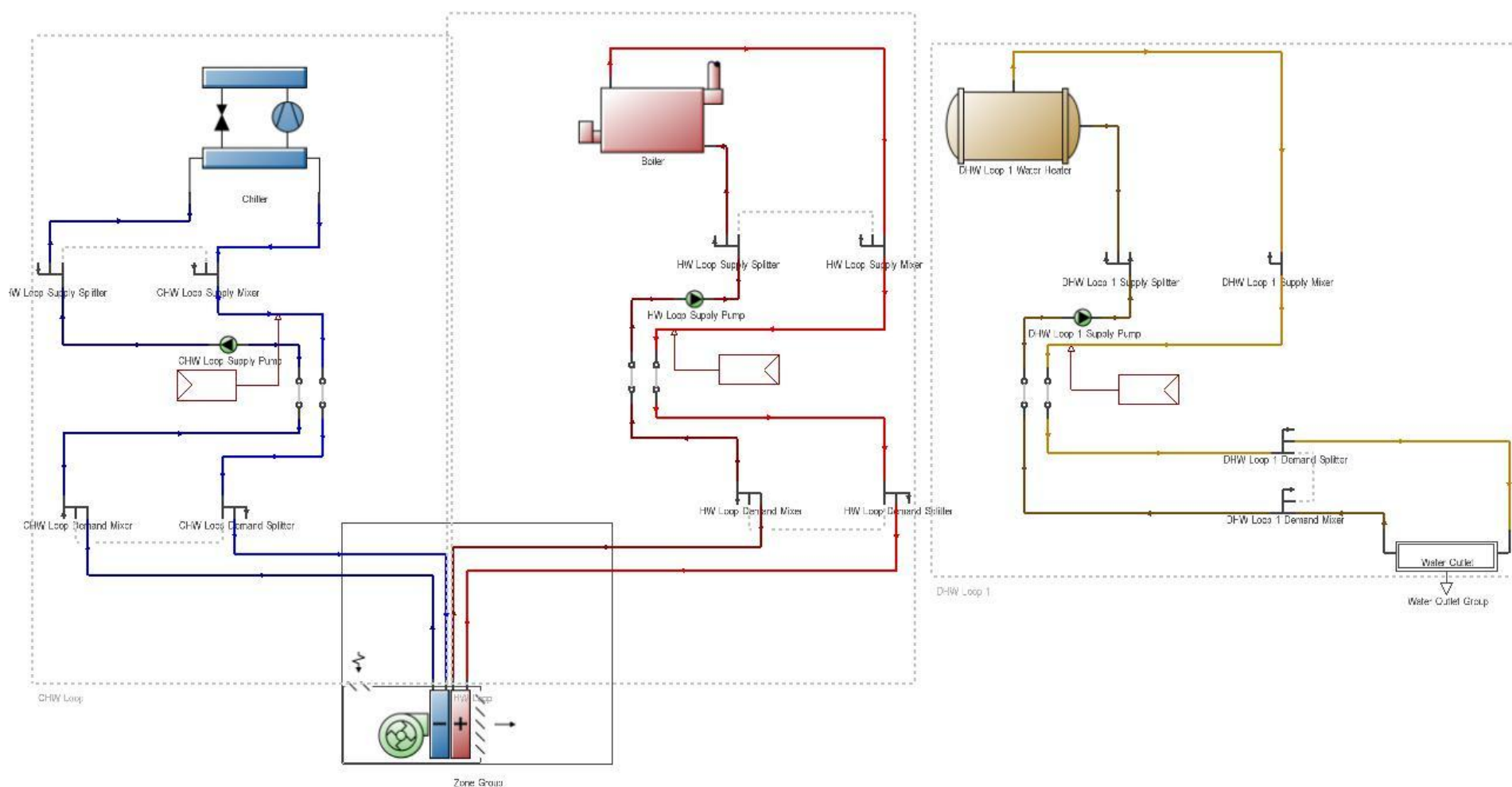






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TM59_CommonCirculationAreas





مدل سازی سیستم فنکوئل با چیلر تراکمی هوا خنک و بویلر گازسوز به همراه آبگرم مصرفی

جزئیات دیوارهای پیرامونی

Constructions

Layers

Surface properties

Image

Calculated

Cost

Internal source

Condensation analysis

General

Name

Copy of Sofal 20 out nama

Source

Category

Walls

Region

IRAN (ISLAMIC REPUBLIC OF)

Colour

Definition

Definition method

1-Layers

Calculation Settings

Layers

Number of layers

9

Outermost layer

Material

Stone - marble

Thickness (m)

0.0200

Bridged?

Layer 2

Material

Cement/plaster/mortar - cement mortar

Thickness (m)

0.0200

Bridged?

Layer 3

Material

sofal divar 17 sant

Thickness (m)

0.0150

Bridged?

Layer 4

Material

Air gap 10mm

Thickness (not used in thermal calcs) (m)

0.0500

Layer 5

Material

sofal divar 17 sant

Thickness (m)

0.0150

Bridged?

Layer 6

Material

Air gap 10mm

Thickness (not used in thermal calcs) (m)

0.0500

Layer 7

Material

sofal divar 17 sant

Thickness (m)

0.0150

Bridged?

Layer 8

Material

Gach va khak

Thickness (m)

0.0200

Bridged?

Innermost layer

Material

Gach roye sefid

Thickness (m)

0.0100

Bridged?

Model data

Insert layer

Delete layer

Outer surface	
20.00mm	Stone - marble
20.00mm	Cement/plaster/mortar - cement mortar Moist
15.00mm	sofal divar 17 sant
50.00mm	Air gap 10mm
15.00mm	sofal divar 17 sant
50.00mm	Air gap 10mm
15.00mm	sofal divar 17 sant
20.00mm	Gach va khak
10.00mm	Gach roye sefid (dry)
Inner surface	

Edit construction - Sofal 20 out nama	
Constructions	
Layers	Surface properties
Image	Calculated
Cost	Internal source
Condensation analysis	
Inner surface	
Convective heat transfer coefficient (W/m2-K)	2.152
Radiative heat transfer coefficient (W/m2-K)	5.540
Surface resistance (m2-K/W)	0.130
Outer surface	
Convective heat transfer coefficient (W/m2-K)	19.870
Radiative heat transfer coefficient (W/m2-K)	5.130
Surface resistance (m2-K/W)	0.040
No Bridging	
U-Value surface to surface (W/m2-K)	2.449
R-Value (m2-K/W)	0.578
U-Value (W/m2-K)	1.729
With Bridging (BS EN ISO 6946)	
Thickness (m)	0.2150
Km - Internal heat capacity (KJ/m2-K)	61.5000
Upper resistance limit (m2-K/W)	0.578
Lower resistance limit (m2-K/W)	0.578
U-Value surface to surface (W/m2-K)	2.449
R-Value (m2-K/W)	0.578
U-Value (W/m2-K)	1.729

جزئیات دیوارهای داخلی

LayersSurface propertiesImageCalculatedCostInternal sourceCondensation analysis

General

NameSofal 10 s in

Source

CategoryWalls

RegionIRAN (ISLAMIC REPUBLIC OF)

Colour

Definition

Definition method1-Layers

Calculation Settings

Layers

Number of layers7

Outermost layer

MaterialGach roye sefid

Thickness (m)0.0100

Bridged?

Layer 2

MaterialGach va khak

Thickness (m)0.0200

Bridged?

Layer 3

Materialsofal divar 17 sant

Thickness (m)0.0150

Bridged?

Layer 4

MaterialAir gap 15mm

Thickness (not used in thermal calcs) (m)0.0500

Layer 5

Materialsofal divar 17 sant

Thickness (m)0.0150

Bridged?

Layer 6

MaterialGach va khak

Thickness (m)0.0200

Bridged?

Innermost layer

MaterialGach roye sefid

Thickness (m)0.0100

Bridged?

Model data

Insert layerDelete layer



Edit construction - Sofal 10 s in		
Constructions		
Layers	Surface properties	Image
Calculated	Cost	Internal source
Co		
Inner surface		
Convective heat transfer coefficient (W/m ² -K)		2.152
Radiative heat transfer coefficient (W/m ² -K)		5.540
Surface resistance (m ² -K/W)		0.130
Outer surface		
Convective heat transfer coefficient (W/m ² -K)		19.870
Radiative heat transfer coefficient (W/m ² -K)		5.130
Surface resistance (m ² -K/W)		0.040
No Bridging		
U-Value surface to surface (W/m ² -K)		3.492
R-Value (m ² -K/W)		0.456
U-Value (W/m²-K)		2.191
With Bridging (BS EN ISO 6946)		
Thickness (m)		0.1400
Km - Internal heat capacity (KJ/m ² -K)		61.5000
Upper resistance limit (m ² -K/W)		0.456
Lower resistance limit (m ² -K/W)		0.456
U-Value surface to surface (W/m ² -K)		3.492
R-Value (m ² -K/W)		0.456
U-Value (W/m²-K)		2.191

جزئیات سقف های داخلی

Edit construction - saghf dakheli 40 sant

Constructions

Layers Surface properties Image Calculated Cost Internal source Condensation analysis

General

Name **saghf dakheli 40 sant**

Source

Category Roofs

Region IRAN (ISLAMIC REPUBLIC OF)

Colour

Definition

Definition method 1-Layers

Calculation Settings

Layers

Number of layers 6

Outermost layer

Material Ceramic/porcelain m19 iran

Thickness (m) 0.0150

Bridged?

Layer 2

Material Cement/plaster/mortar - cement mortar

Thickness (m) 0.0200

Bridged?

Layer 3

Material foam beton kaf sazi

Thickness (m) 0.1000

Bridged?

Layer 4

Material Beton moslah m19

Thickness (m) 0.0500

Bridged?

Layer 5

Material Gach va khak

Thickness (m) 0.0200

Bridged?

Innermost layer

Material Gach roye sefid

Thickness (m) 0.0100

Bridged?

Model data

Insert layer Delete layer

Edit construction - saghf dakheli 40 sant

Constructions

Layers Surface properties Image Calculated Cost Internal

Cross Section

Outer surface

15.00mm Ceramic/porcelain m19 iran

20.00mm Cement/plaster/mortar - cement mortar Moist

100.00mm foam beton kaf sazi

50.00mm Beton moslah m19

20.00mm Gach va khak

10.00mm Gach roye sefid(not to scale)

Inner surface

Edit construction - saghf dakheli 40 sant

Constructions

Layers Surface properties Image Calculated Cost Internal source C

Inner surface

Convective heat transfer coefficient (W/m2-K) 4.460

Radiative heat transfer coefficient (W/m2-K) 5.540

Surface resistance (m2-K/W) 0.100

Outer surface

Convective heat transfer coefficient (W/m2-K) 19.870

Radiative heat transfer coefficient (W/m2-K) 5.130

Surface resistance (m2-K/W) 0.040

No Bridging

U-Value surface to surface (W/m2-K) 0.339

R-Value (m2-K/W) 3.088

U-Value (W/m2-K) 0.324

With Bridging (BS EN ISO 6946)

Thickness (m) 0.2150

Km - Internal heat capacity (KJ/m2-K) 137.76

Upper resistance limit (m2-K/W) 3.088

Lower resistance limit (m2-K/W) 3.088

U-Value surface to surface (W/m2-K) 0.339

R-Value (m2-K/W) 3.088

U-Value (W/m2-K) 0.324