BIM Portfolio

Curated by:

Syed Zain Abbas Rizvi
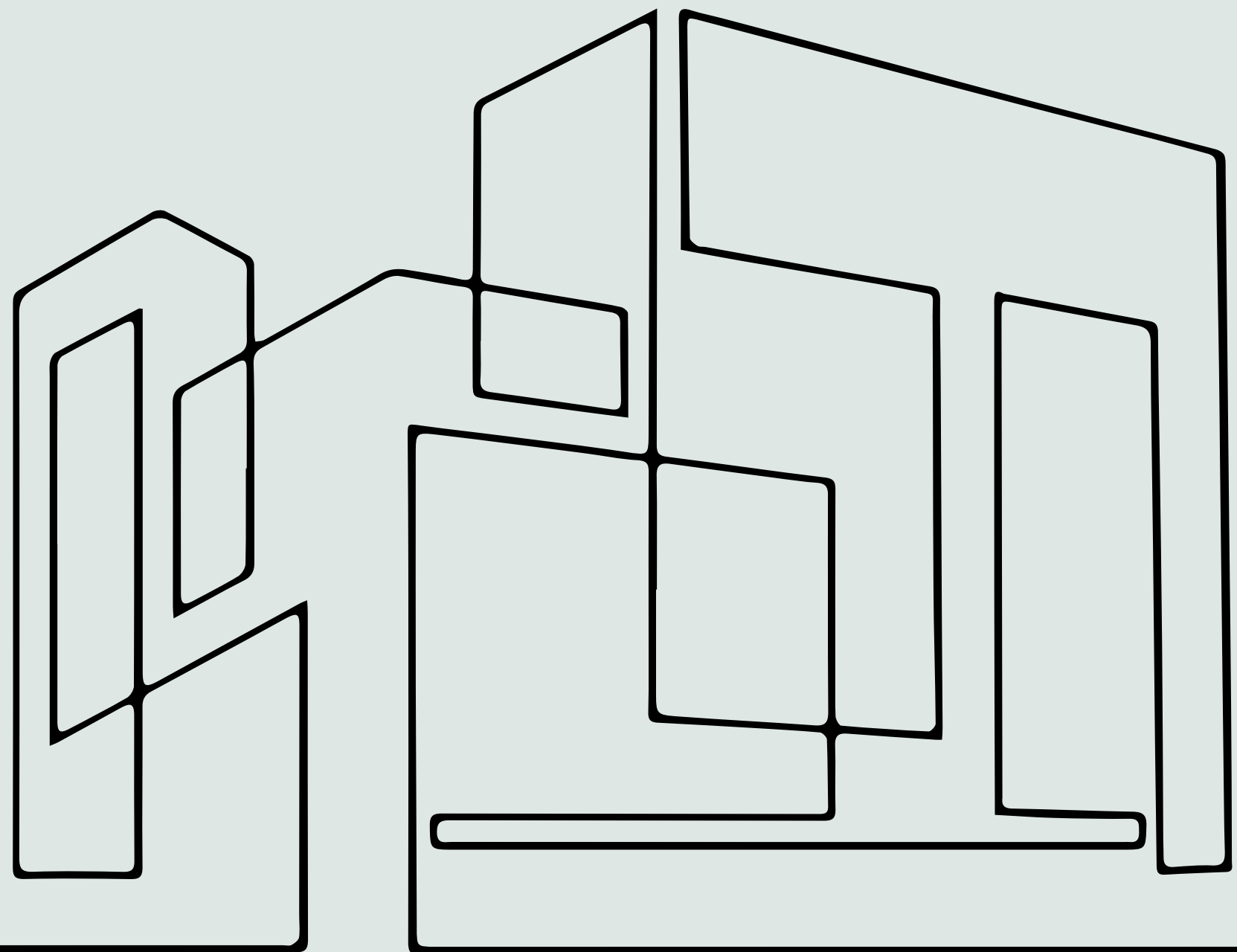
Contents

01 Architecture

FLOOR PLANS

SCALE 1:200

MAIN ENTRY

WAITING AREA

WAITING AREA

TRIAL ROOMS(F)

TRIAL ROOMS(M)

DUCT   LIFT

LIFT   DUCT

SALES AREA

MAIN STAIRS

MAIN STAIRS

CCTV/ELECTRICAL ROOM

BACK OFFICE

CASH/POS

CORRIDOR

TOILETS

STAFF DINING

ADMIN OFFICE

SERVICE STAIRS

STOCK ROOM

TOILETS

LOADING DECK
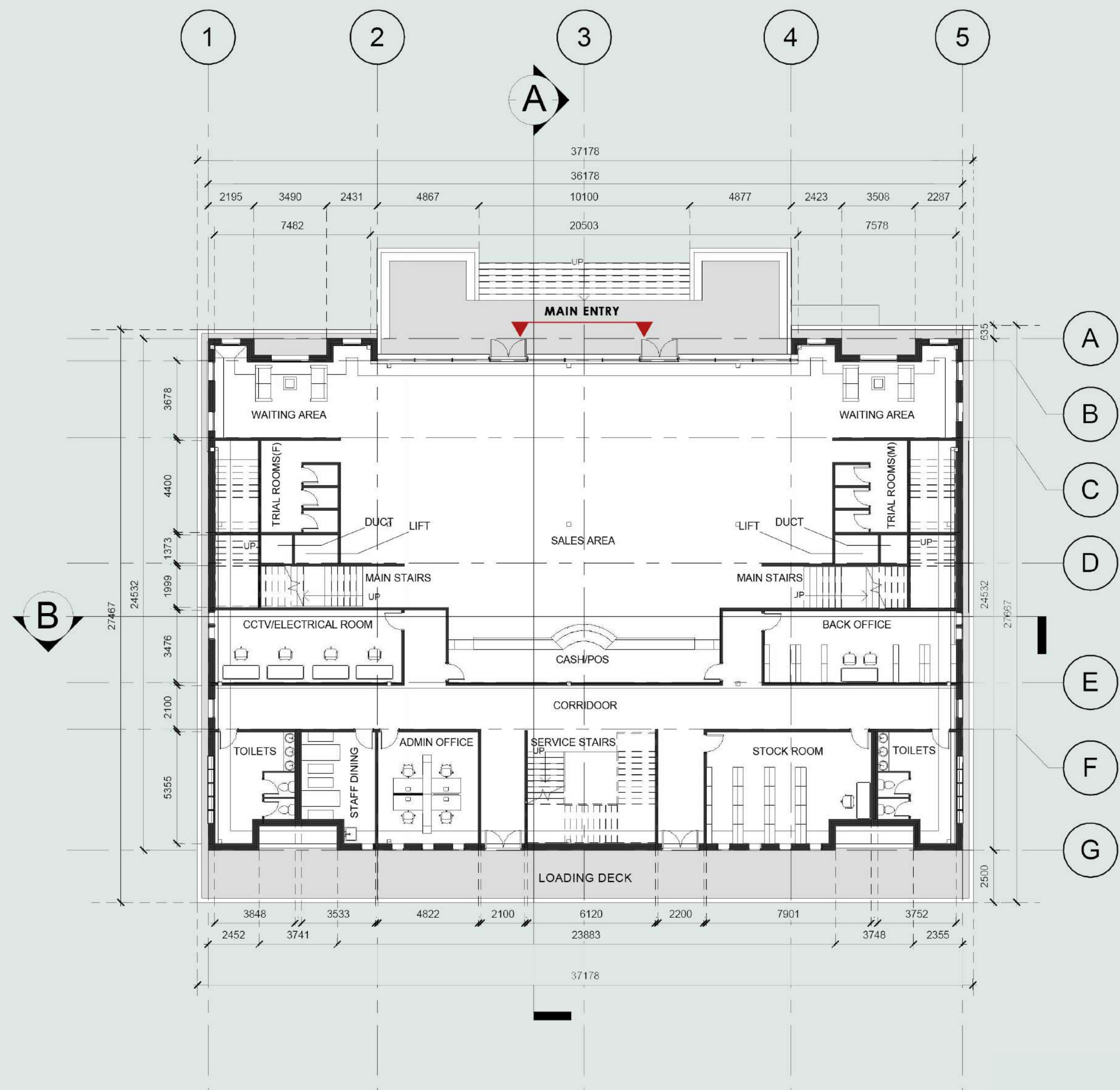
SPATIAL MAPPING

Level G0

SCALE 1:200

SEATING AREA

UP

SEATING AREA

ENTRY/EXIT   ENTRY/EXIT

WAITING AREA   WAITING AREA

TRIAL ROOM   TRIAL ROOM

LIFT   LIFT

DUCT   DUCT

UP   UP

UP   UP   UP   UP

MAIN STAIRS   MAIN STAIRS

SALES AREA

CCTV/ELECTRICAL ROOM   CASH/POS   BACK OFFICE

TOILET   STAFF DINING   ADMIN   SERVICE ENTRY/EXIT   UP   SERVICE STAIRS   SERVICE ENTRY/EXIT   STOCKROOM   TOILET

SPACE LEGEND

ADMIN OFFICE		LIFT		TOILET(F)	
BACK OFFICE		MAIN STAIRS		TOILET(M)	
CASH/POS		SALES AREA		TRIAL ROOMS(F)	
CCTV/ELECTRICAL ROOM		SERVICE STAIRS		TRIAL ROOMS(M)	
CORRIDOOR		STAFF DINING		WAITING AREA	
DUCT		STOCK ROOM			

Level G1

SCALE 1:200

WAITING AREA   WAITING AREA

TRIAL ROOM   TRIAL ROOM

LIFT   LIFT

DUCT   DUCT

UP   UP

SALES AREA

MANAGER   ACCOUNTS

TOILET   STAFF DINING   STAFFROOM   SERVICE STAIRS   STOCKROOM   TOILET

SPACE LEGEND

ACCOUNTS		SALES AREA		TOILET(M)	
CORRIDOOR		SERVICE STAIRS		TRIAL ROOMS(F)	
DUCT		STAFF DINING		TRIAL ROOMS(M)	
LIFT		STAFF ROOM		WAITING AREA	
MAIN STAIRS		STOCK ROOM			
MANAGER		TOILET(F)			

SECTIONS

Section AA'

Level	Height
T.O. Roof	+1435cm
B.O. Roof	+1100cm
Parapet	+1010cm
Roof Slab	+908cm
False ceiling	+810cm
G1 level	**+450cm**
False ceiling	+360cm
T/Window	+304cm
G0 level	**+105cm**
Ground level	0cm
Base level	-105cm

Section BB'

Level	Height
T.O. Roof	+1435cm
B.O. Roof	+1100cm
Parapet	+1010cm
Roof Slab	+908cm
False ceiling	+810cm
G1 level	**+450cm**
False ceiling	+360cm
T/Window	+304cm
G0 level	**+105cm**
Ground level	0cm
Base level	-105cm

Exploded view

ELEVATIONS

<u>north elevation</u>

SOLAR STUDIES

summer solstice

10:00

S

W

18:39

E 09 April

06:07

N

09 April 2024   10:00 am

winter solstice

10:00

S

W

17:26

25 December

07:15

E

N

25 December 2024   10:00 am

spring equinox

10:00

S

W

18:28

20 March

06:29

E

N

20 March 2024   10:00 am

fall equinox

10:00

S

W

18:15

22 September

06:13

E

N

22 September 2024   10:00 am
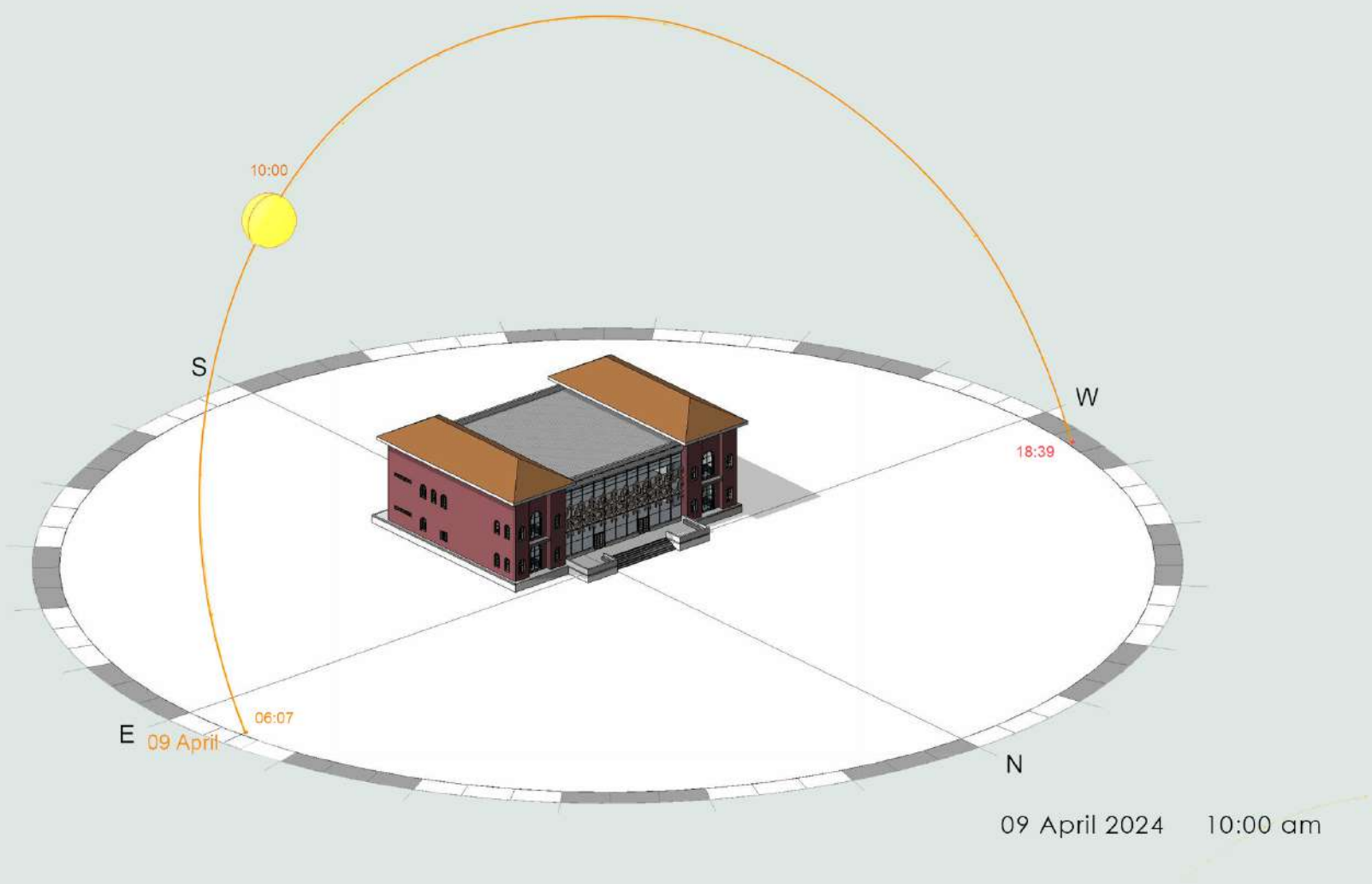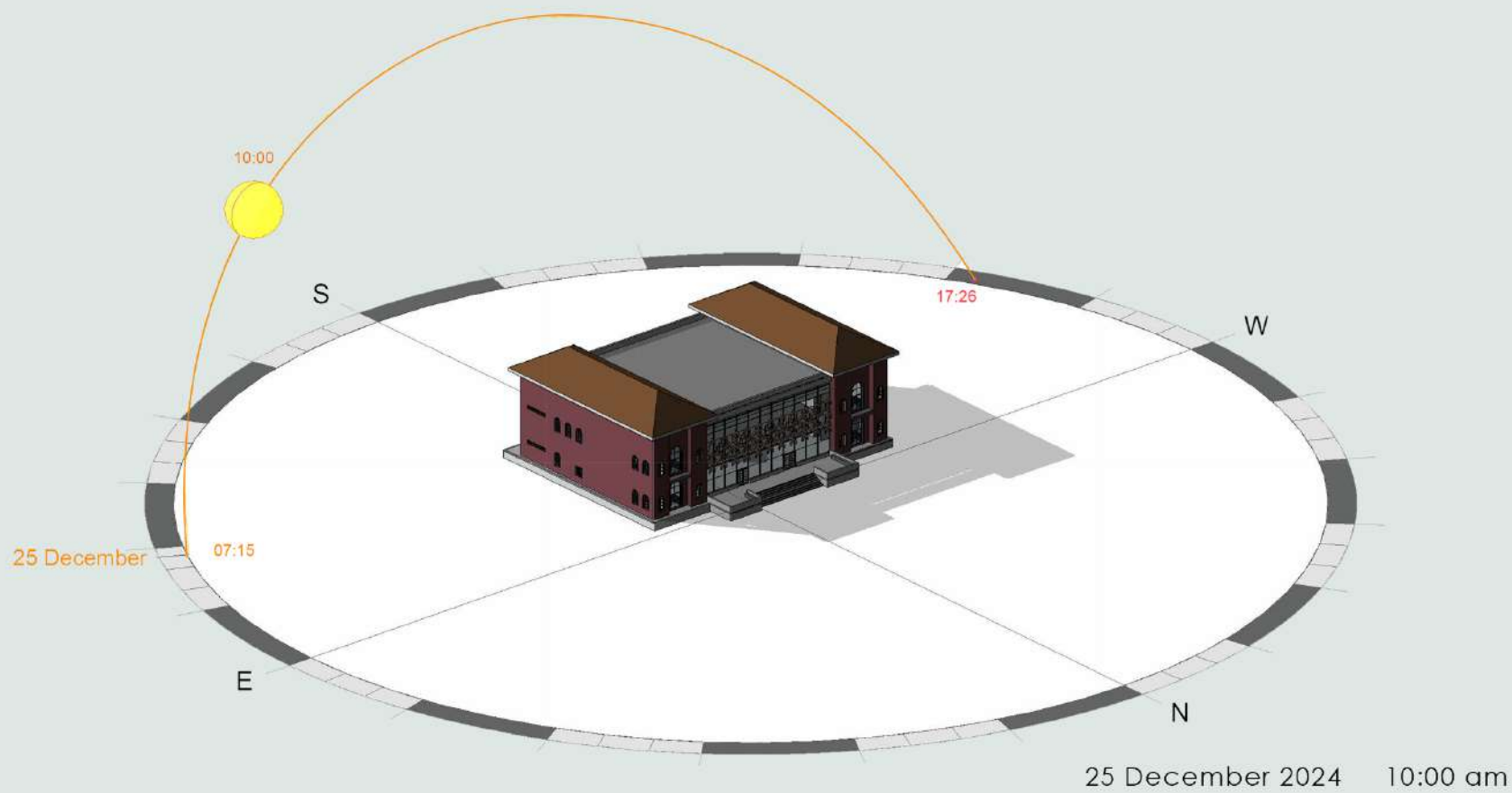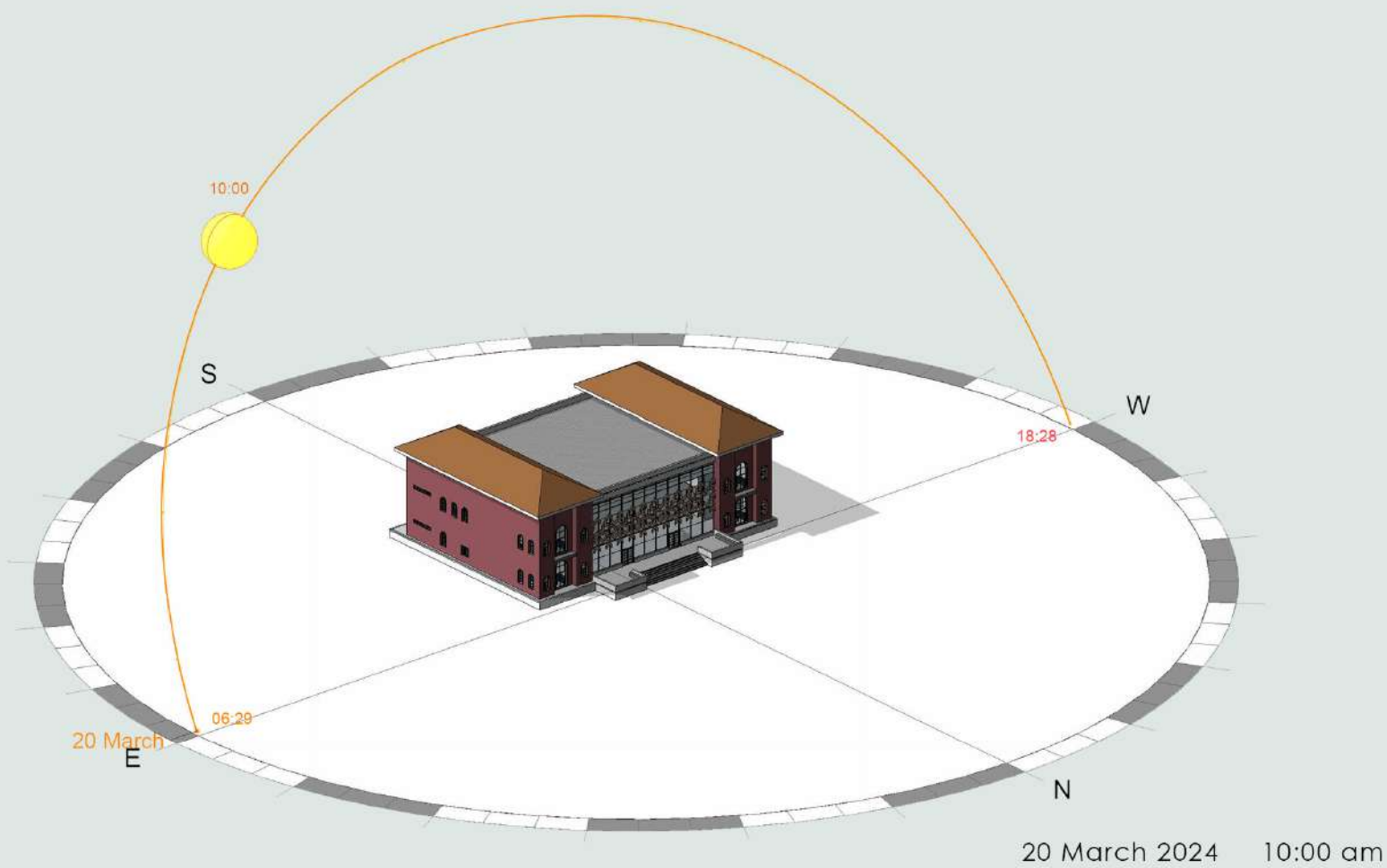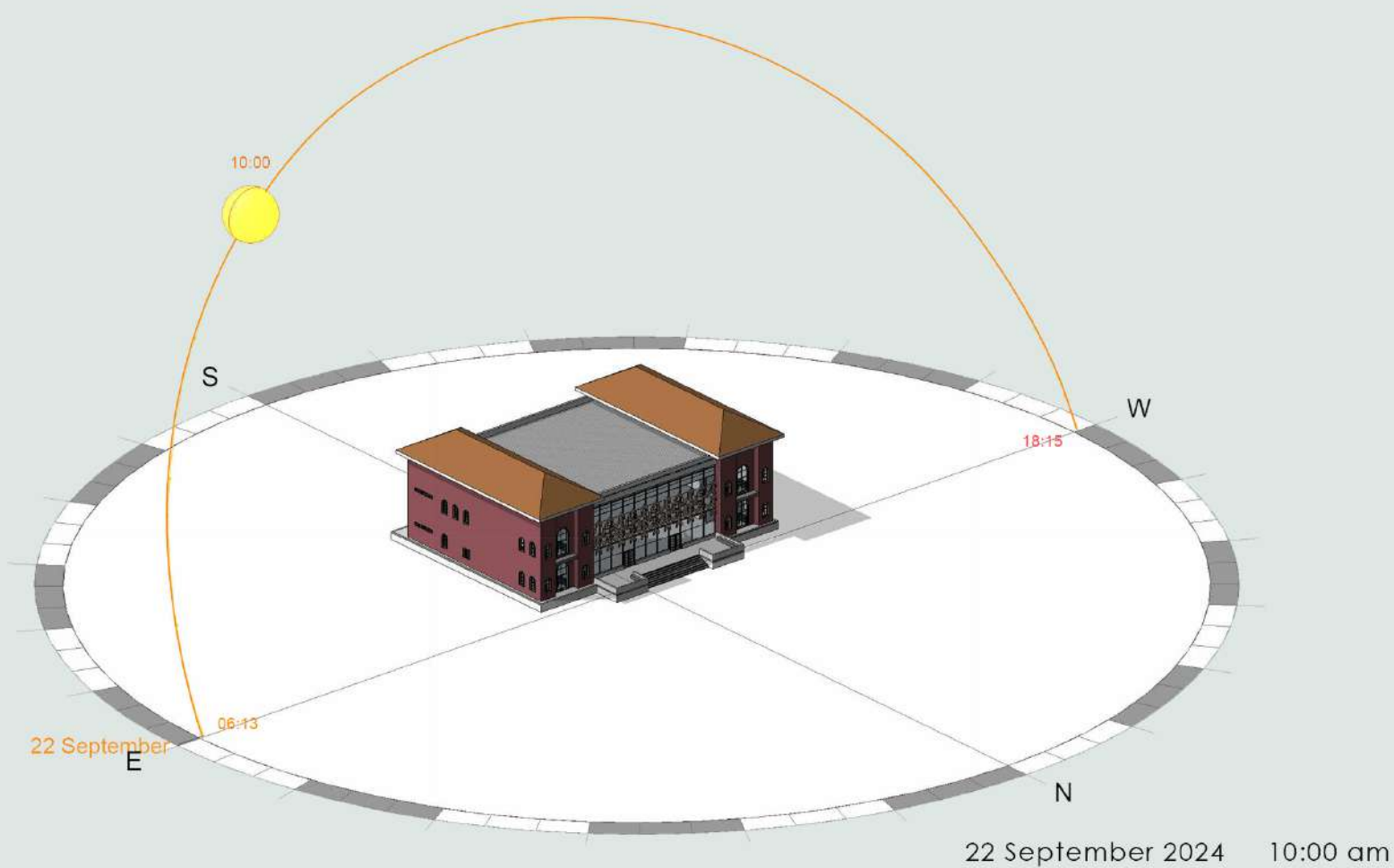
ROOM SCHEDULES

Level G0
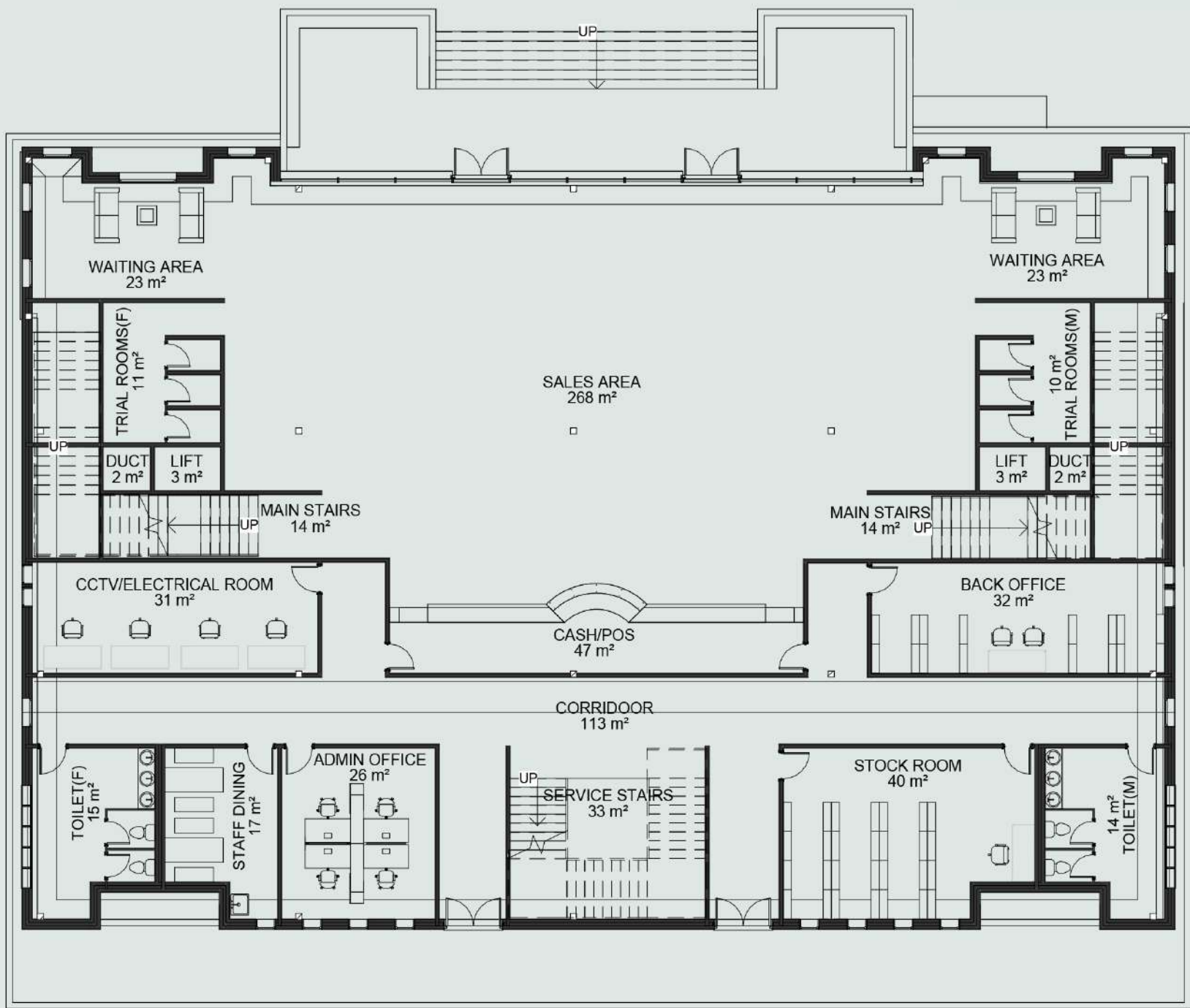
Name	Area	Perimeter
WAITING AREA	23 m²	22506
WAITING AREA	23 m²	22256
SALES AREA	268 m²	73870
TRIAL ROOMS(F)	11 m²	16417
TRIAL ROOMS(F)	2 m²	5312
TRIAL ROOMS(F)	2 m²	5313
TRIAL ROOMS(F)	2 m²	5439
TRIAL ROOMS(M)	10 m²	16017
TRIAL ROOMS(M)	2 m²	5212
TRIAL ROOMS(M)	2 m²	5213
TRIAL ROOMS(M)	2 m²	5339
LIFT	3 m²	6895
DUCT	2 m²	5313
LIFT	3 m²	6895
DUCT	2 m²	5713
CASH/POS	47 m²	33177
CCTV/ELECTRICAL ROOM	31 m²	24896
BACK OFFICE	32 m²	25330
TOILET(F)	15 m²	18408
TOILET(F)	2 m²	5406
TOILET(F)	2 m²	5012
STAFF DINING	17 m²	17778
ADMIN OFFICE	26 m²	20356
STOCK ROOM	40 m²	26514
TOILET(M)	14 m²	18222
TOILET(M)	2 m²	5406
TOILET(M)	2 m²	5013
MAIN STAIRS	7 m²	11175
MAIN STAIRS	9 m²	12994
MAIN STAIRS	14 m²	17708
MAIN STAIRS	14 m²	18042
MAIN STAIRS	8 m²	11434
MAIN STAIRS	10 m²	13203
SERVICE STAIRS	33 m²	23078
CORRIDOOR	113 m²	111490

WINDOW SCHEDULES

Level G0
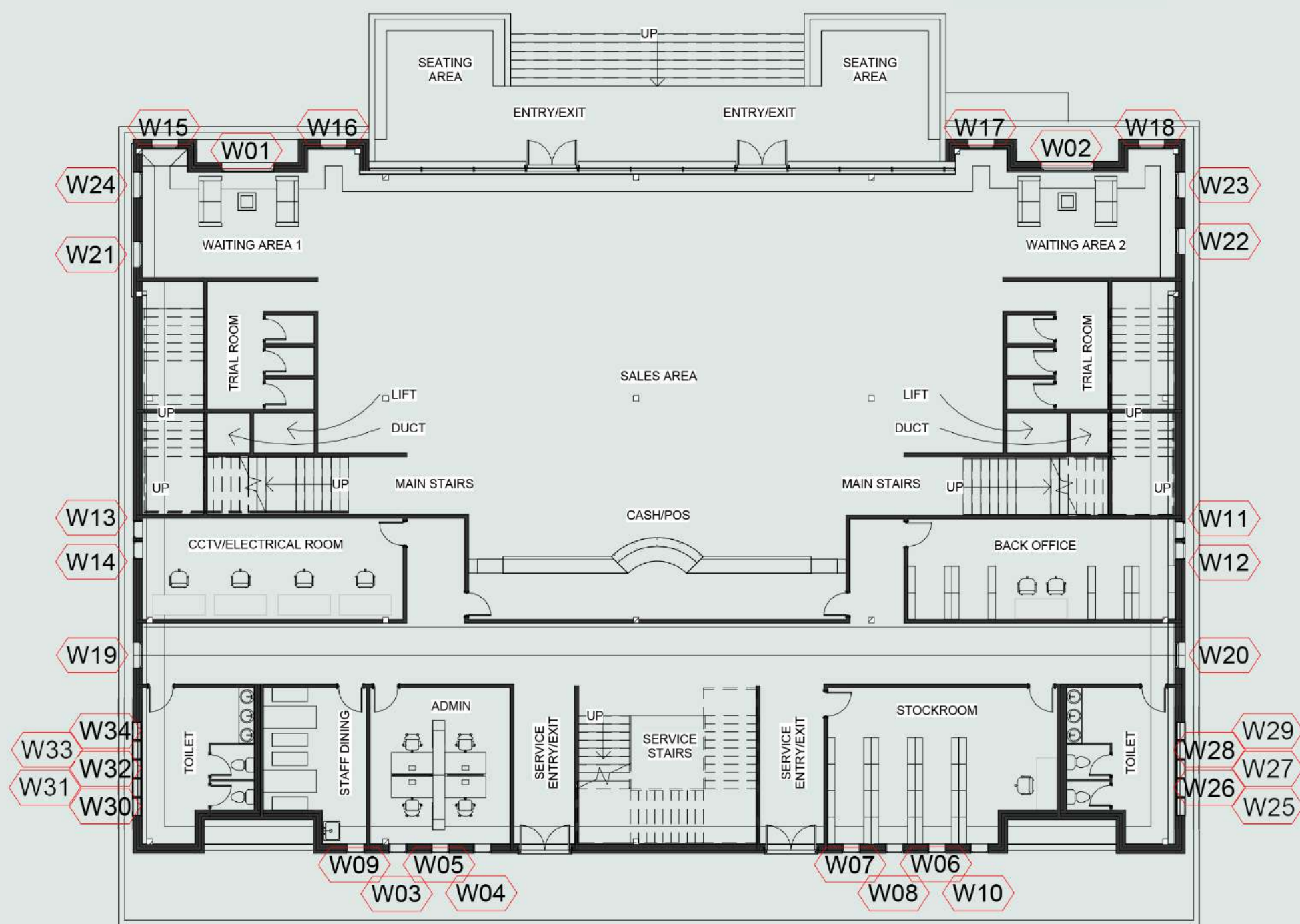
Mark	Level	Family and Type	Height	Width	Sill Height
W01	LEVEL G0	M_Window-Double-Hung-Arch-Head: EXT W1	3600	1800	100
W02	LEVEL G0	M_Window-Double-Hung-Arch-Head: EXT W1	3600	1800	100
W03	LEVEL G0	M_Instance-Window-Fixed: FWINDOW	3000	610	915
W04	LEVEL G0	M_Instance-Window-Fixed: FWINDOW	3000	610	915
W05	LEVEL G0	M_Instance-Window-Fixed: FWINDOW	3000	610	915
W06	LEVEL G0	M_Instance-Window-Fixed: FWINDOW	3000	610	915
W07	LEVEL G0	M_Instance-Window-Fixed: FWINDOW	3000	610	915
W08	LEVEL G0	M_Instance-Window-Fixed: FWINDOW	3000	610	915
W09	LEVEL G0	M_Instance-Window-Fixed: FWINDOW	3000	610	915
W10	LEVEL G0	M_Instance-Window-Fixed: FWINDOW	3000	610	915
W11	LEVEL G0	M_Instance-Window-Fixed: 0610 x 1220mm	1220	610	915
W12	LEVEL G0	M_Instance-Window-Fixed: 0610 x 1220mm	1220	610	915
W13	LEVEL G0	M_Instance-Window-Fixed: 0610 x 1220mm	1220	610	915
W14	LEVEL G0	M_Instance-Window-Fixed: 0610 x 1220mm	1220	610	915
W15	LEVEL G0	M_Window-Double-Hung-Arch-Head: WAREA WIN	1800	900	914
W16	LEVEL G0	M_Window-Double-Hung-Arch-Head: WAREA WIN	1800	900	914
W17	LEVEL G0	M_Window-Double-Hung-Arch-Head: WAREA WIN	1800	900	914
W18	LEVEL G0	M_Window-Double-Hung-Arch-Head: WAREA WIN	1800	900	914
W19	LEVEL G0	M_Window-Double-Hung-Arch-Head: WAREA WIN	1800	900	914
W20	LEVEL G0	M_Window-Double-Hung-Arch-Head: WAREA WIN	1800	900	914
W21	LEVEL G0	M_Window-Double-Hung-Arch-Head: WAREA WIN	1800	900	914
W22	LEVEL G0	M_Window-Double-Hung-Arch-Head: WAREA WIN	1800	900	914
W23	LEVEL G0	M_Window-Double-Hung-Arch-Head: WAREA WIN	1800	900	914
W24	LEVEL G0	M_Window-Double-Hung-Arch-Head: WAREA WIN	1800	900	914
W25	LEVEL G0	louver window: TVENT	400	600	2045
W26	LEVEL G0	louver window: TVENT	400	600	2045
W27	LEVEL G0	louver window: TVENT	400	600	2045
W28	LEVEL G0	louver window: TVENT	400	600	2045
W29	LEVEL G0	louver window: TVENT	400	600	2045
W30	LEVEL G0	louver window: TVENT	400	600	2045
W31	LEVEL G0	louver window: TVENT	400	600	2045
W32	LEVEL G0	louver window: TVENT	400	600	2045
W33	LEVEL G0	louver window: TVENT	400	600	2045
W34	LEVEL G0	louver window: TVENT	400	600	2045

Landscape Modeling

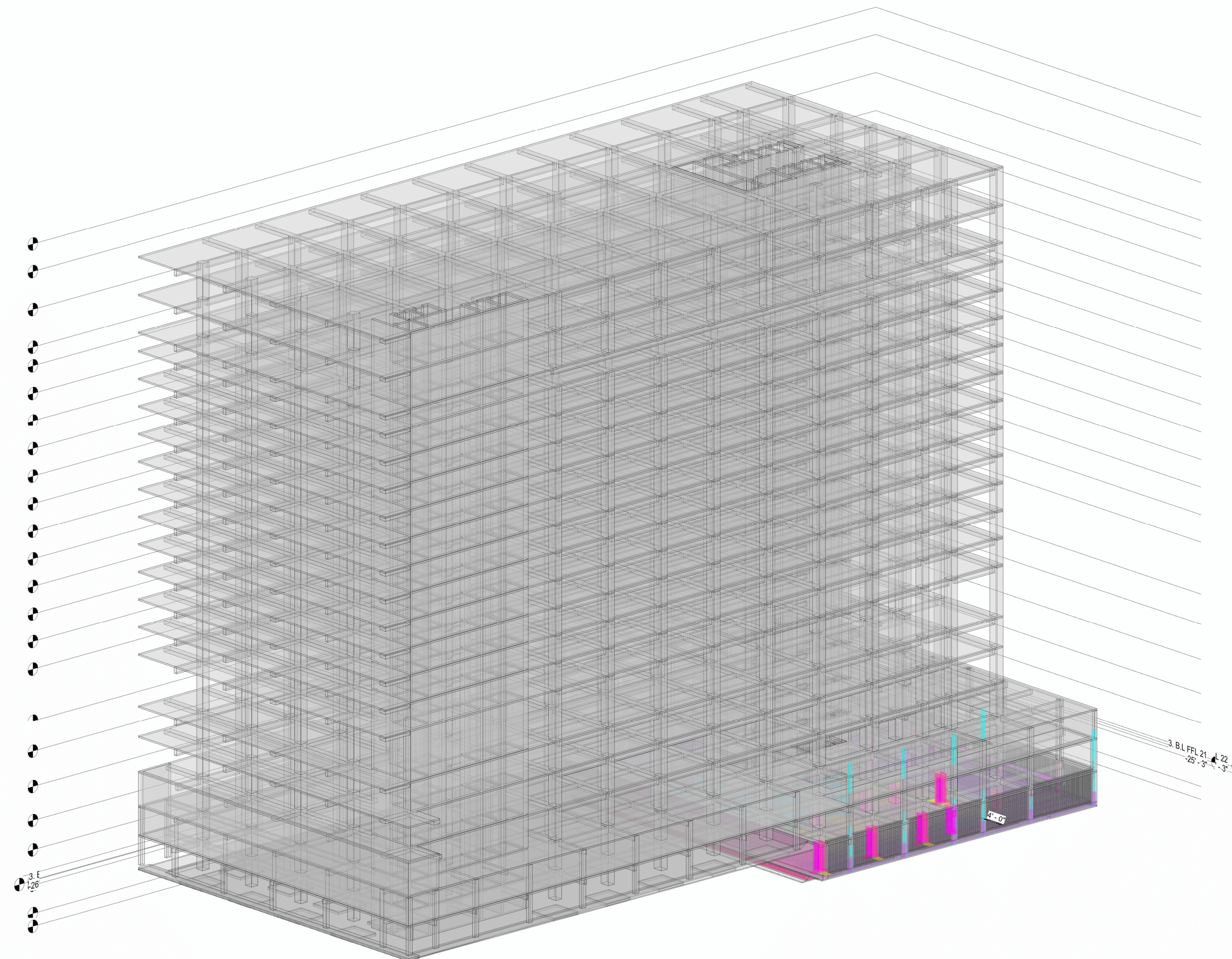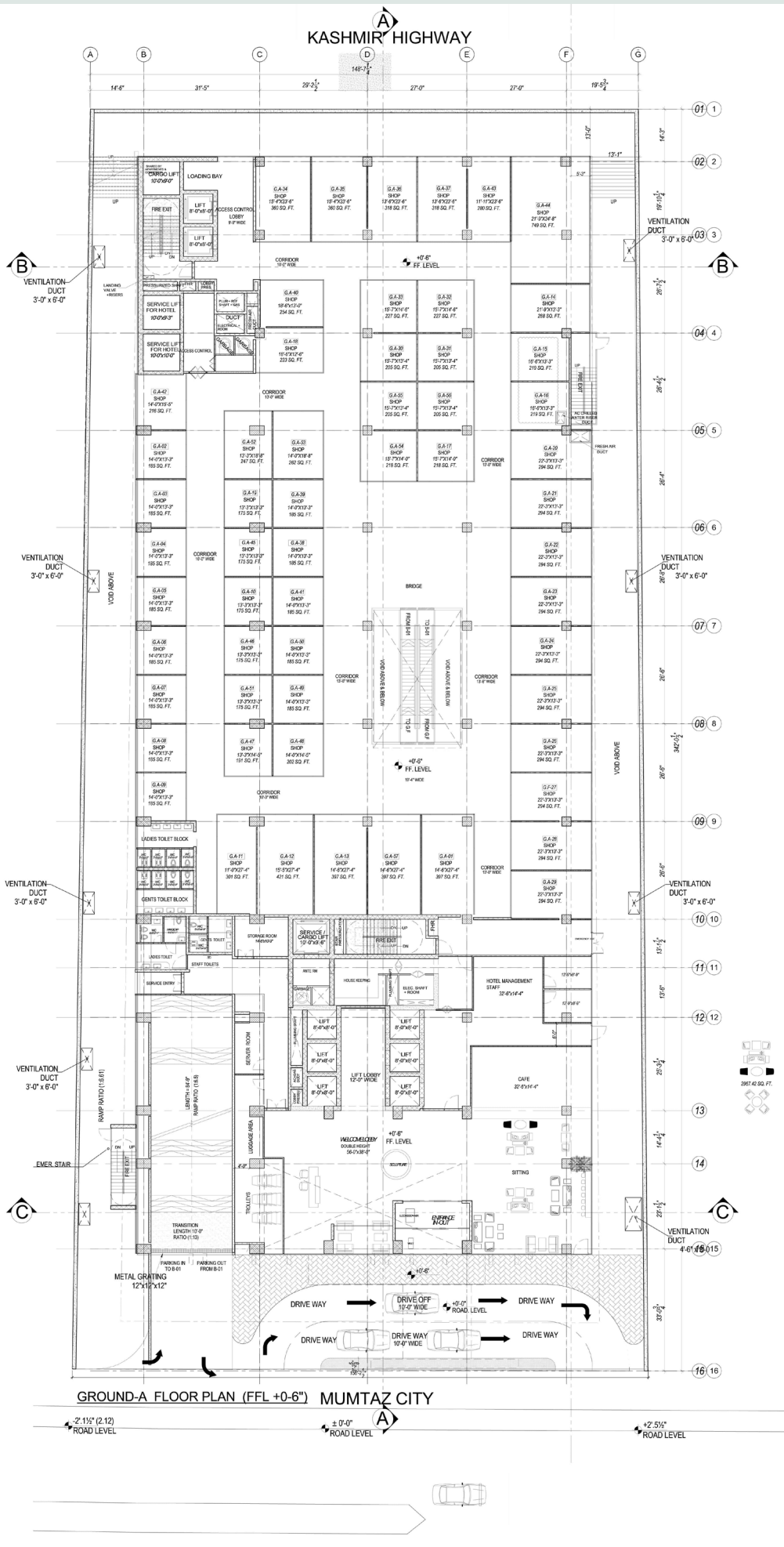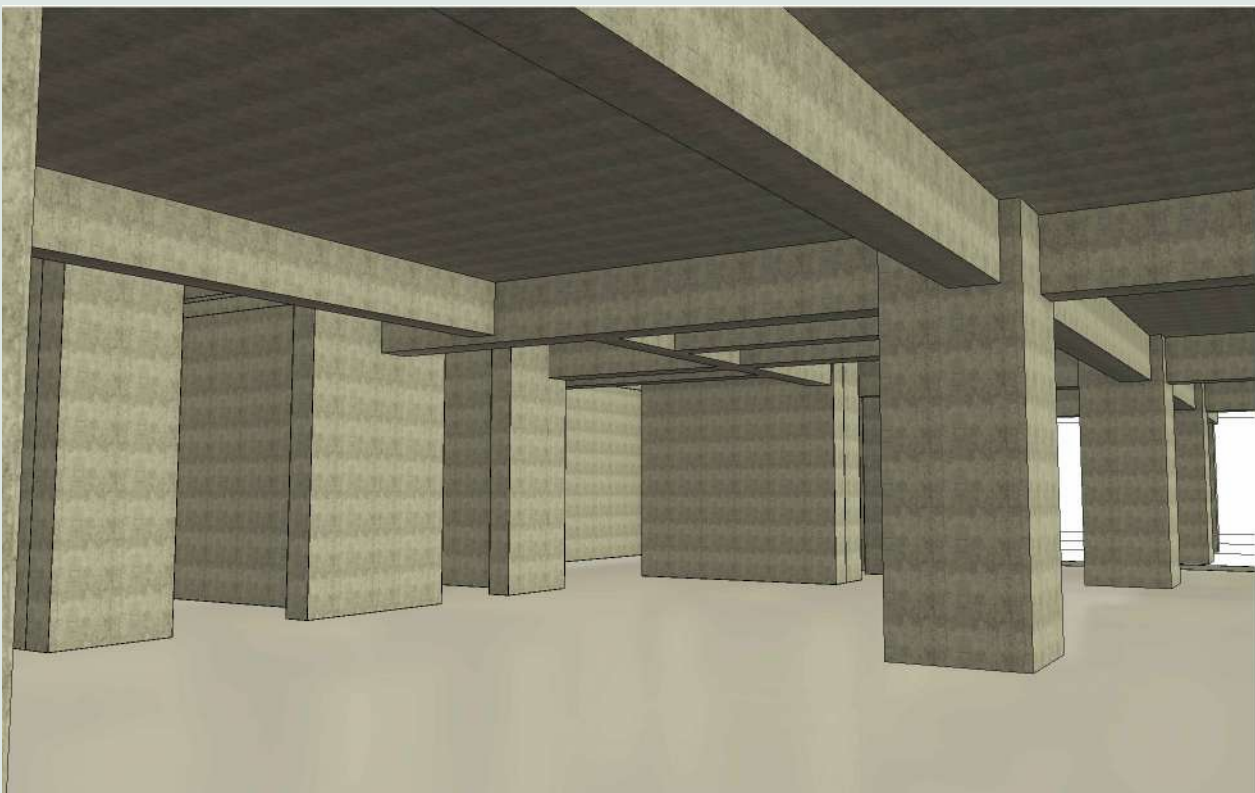# 02 Structure

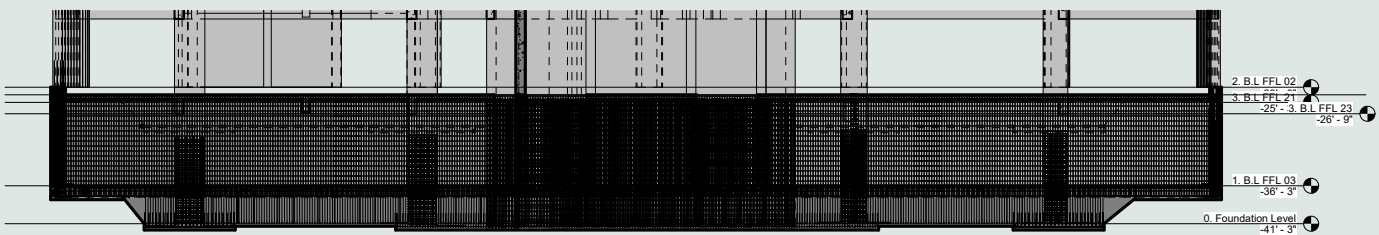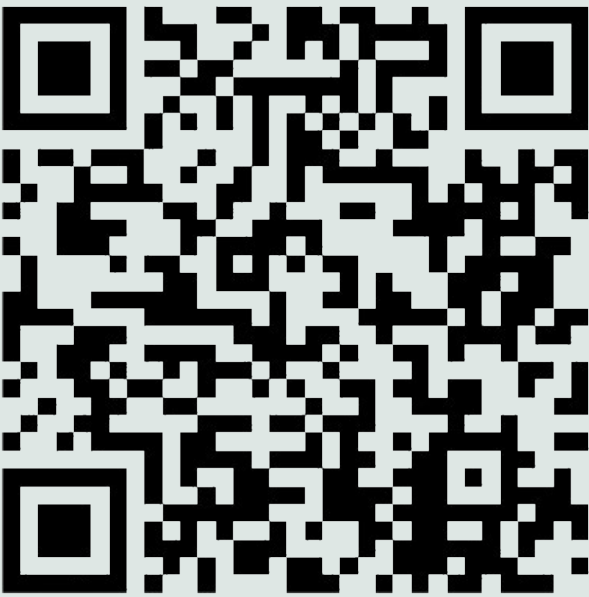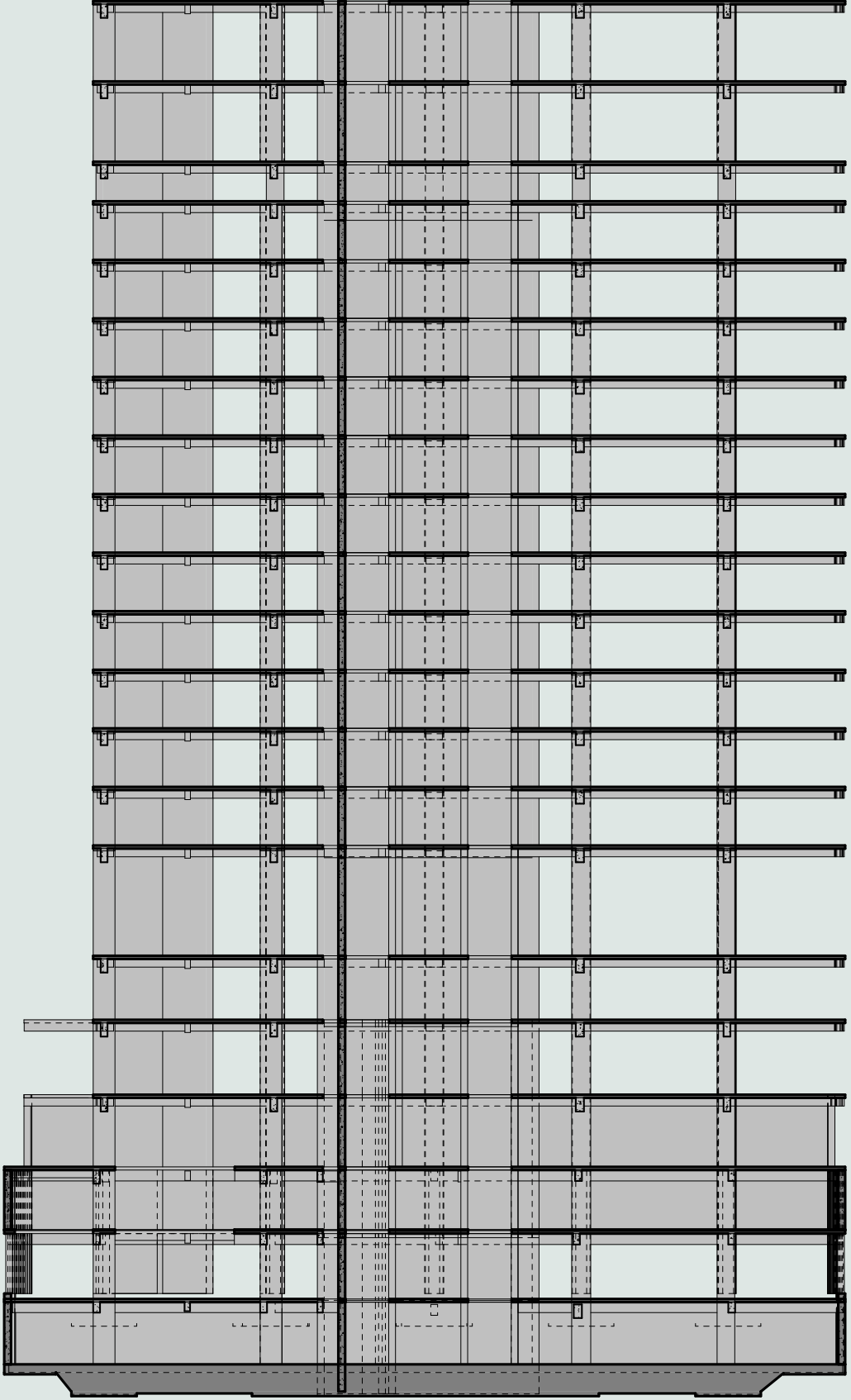# Structure Model of 3B+G+16 Story Commercial Five Star Hotel Project

Floor Plan

3D View

Section View

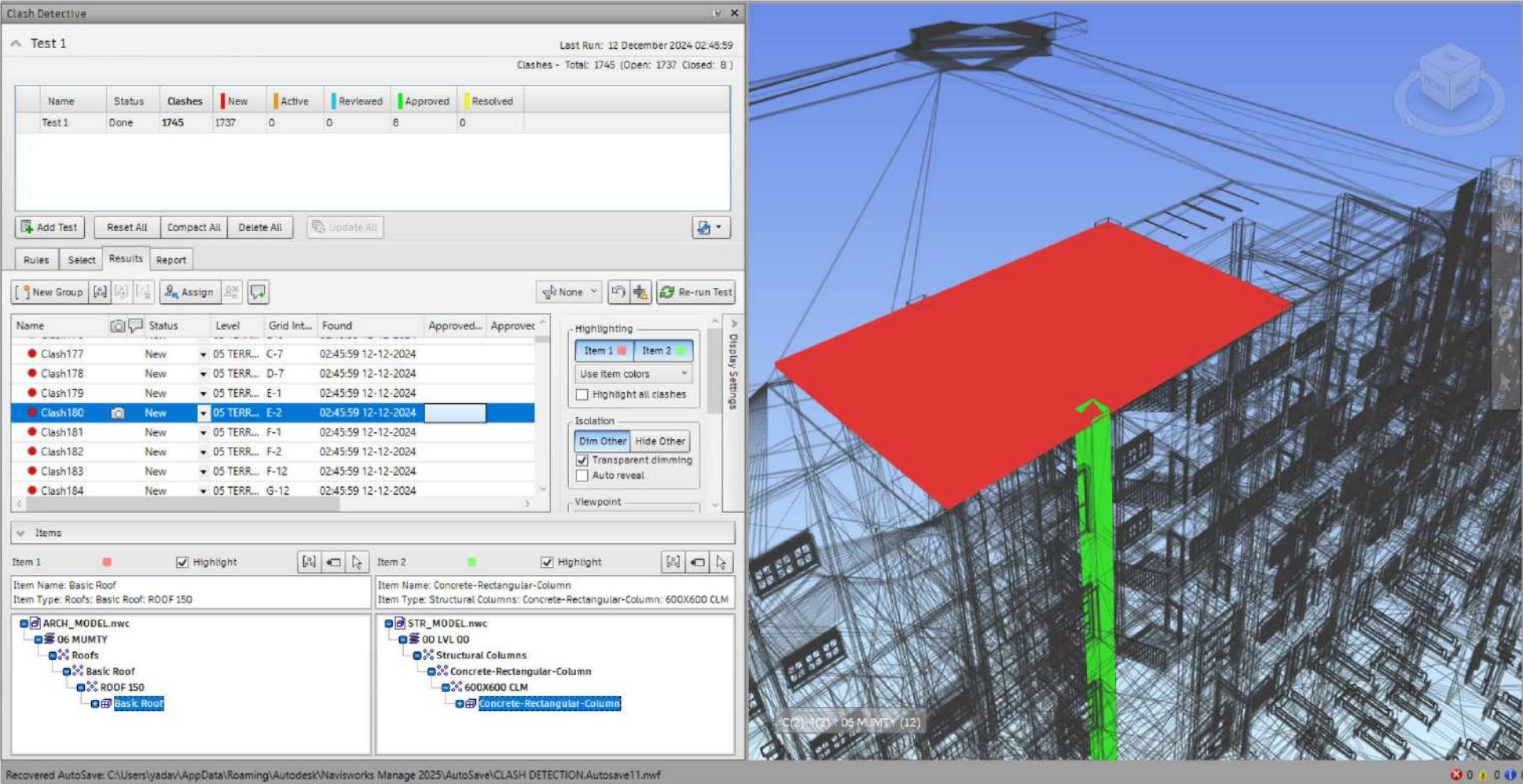Scan me to visit project ground floor
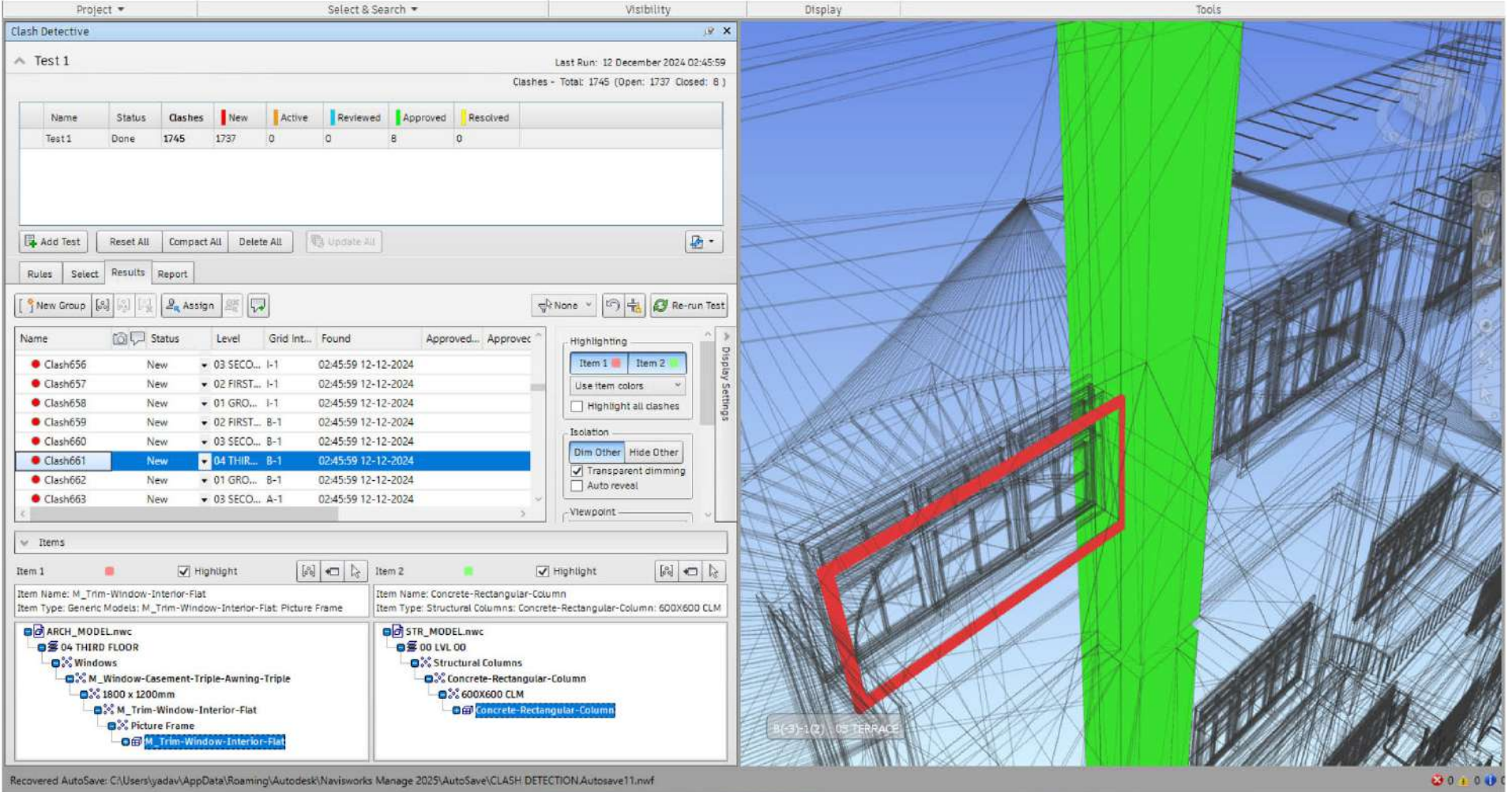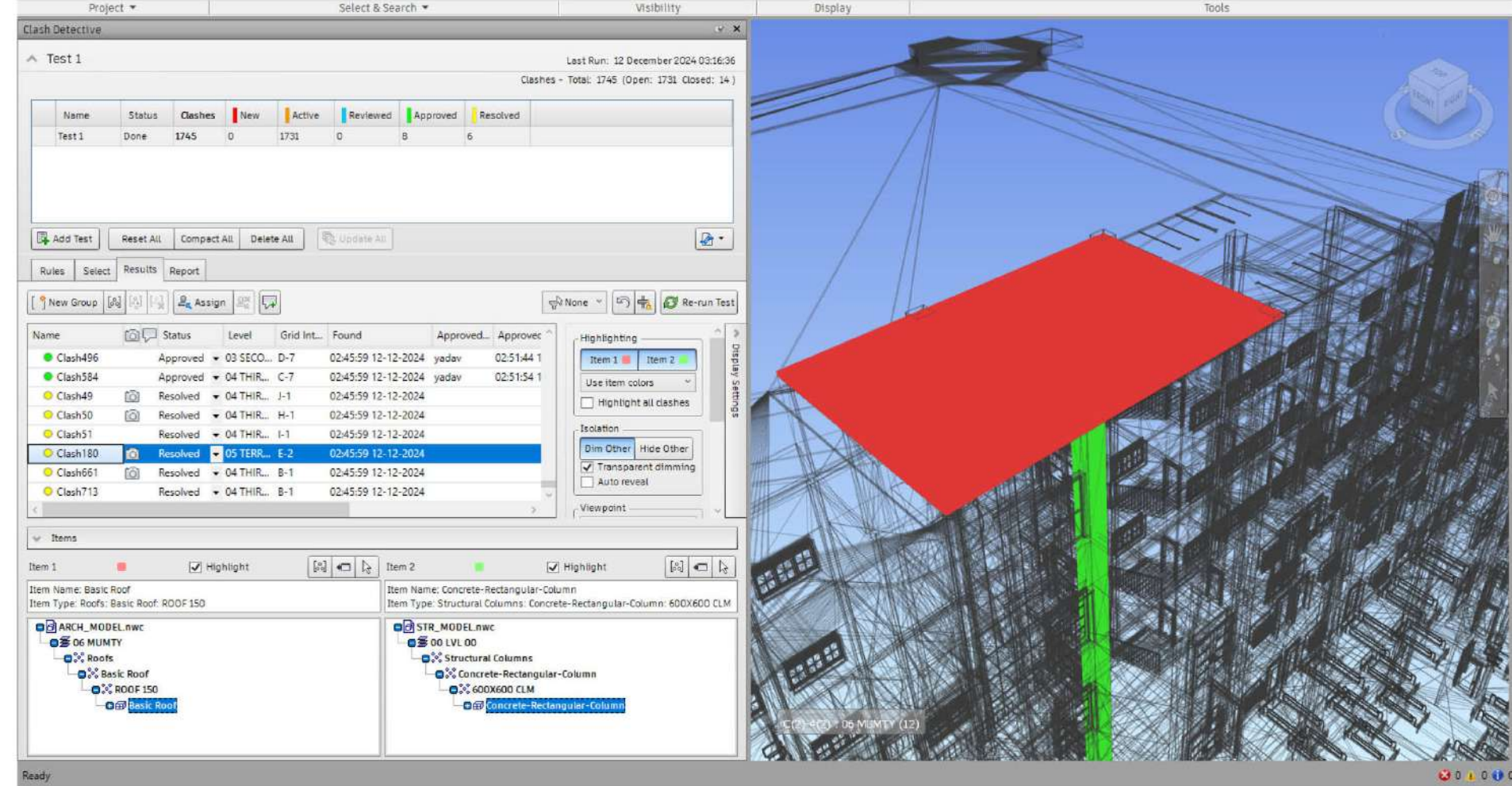
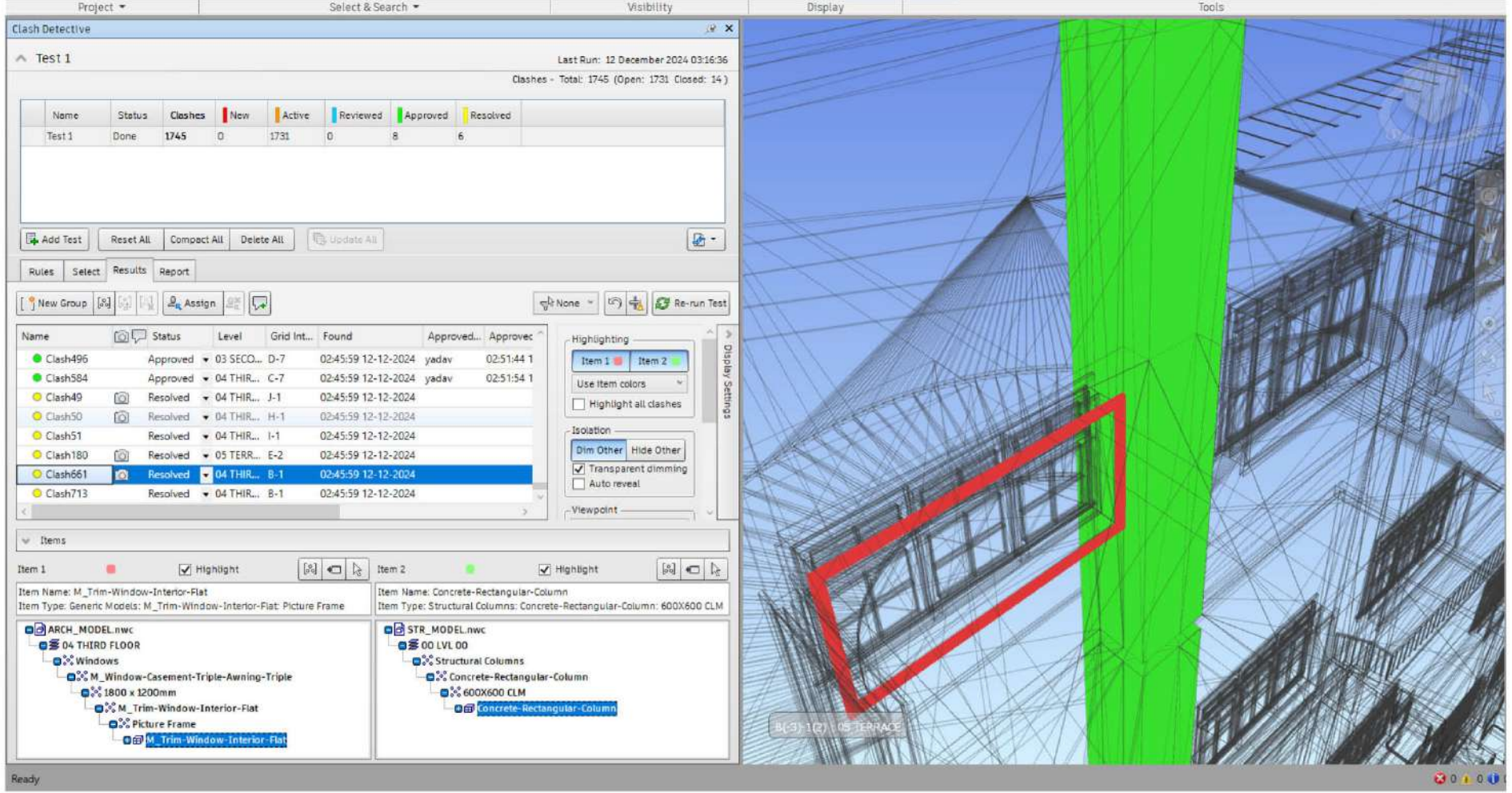
Right Elevation

03 Clash Detection

ARC VS STR
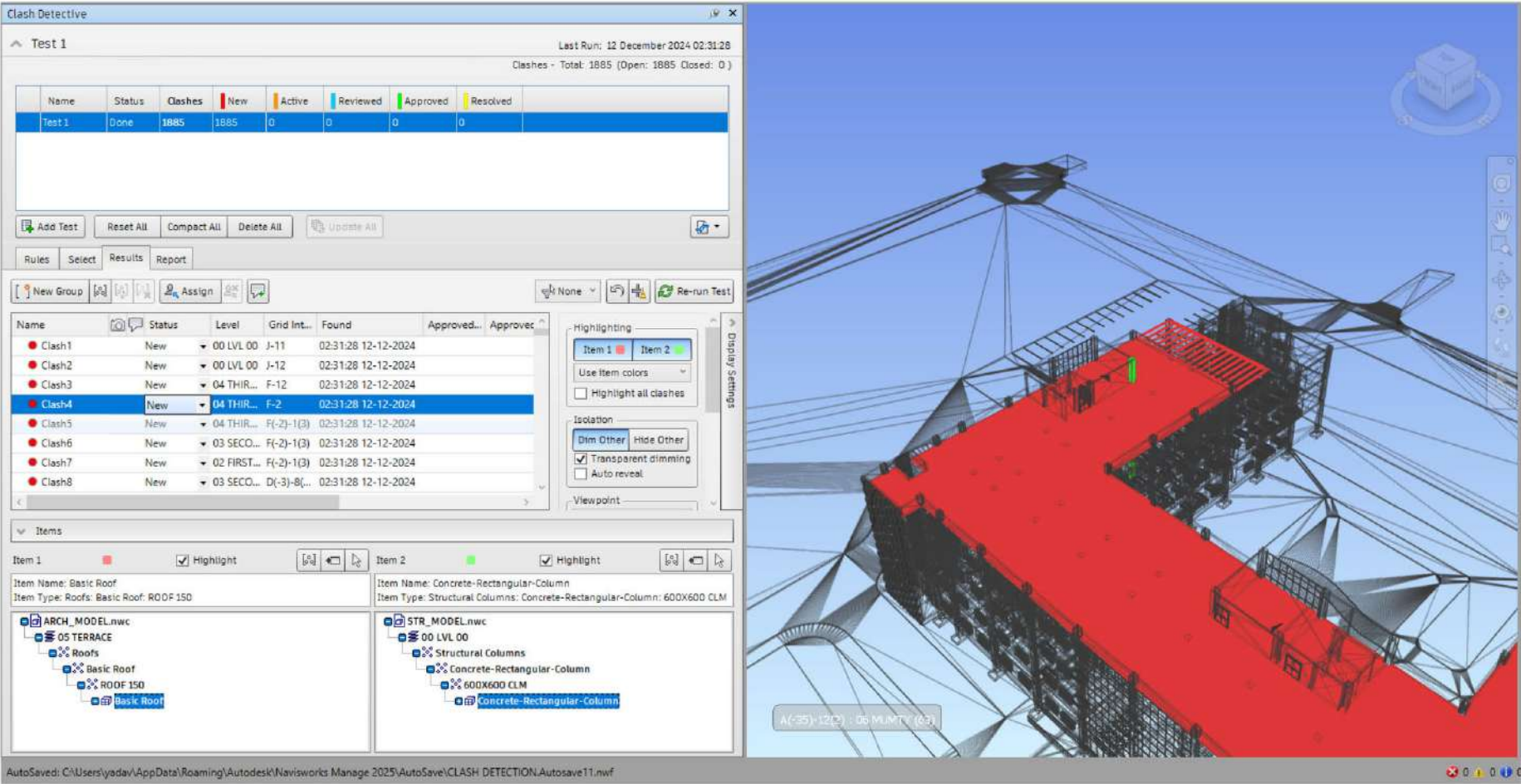BEFORE

ARC VS STR
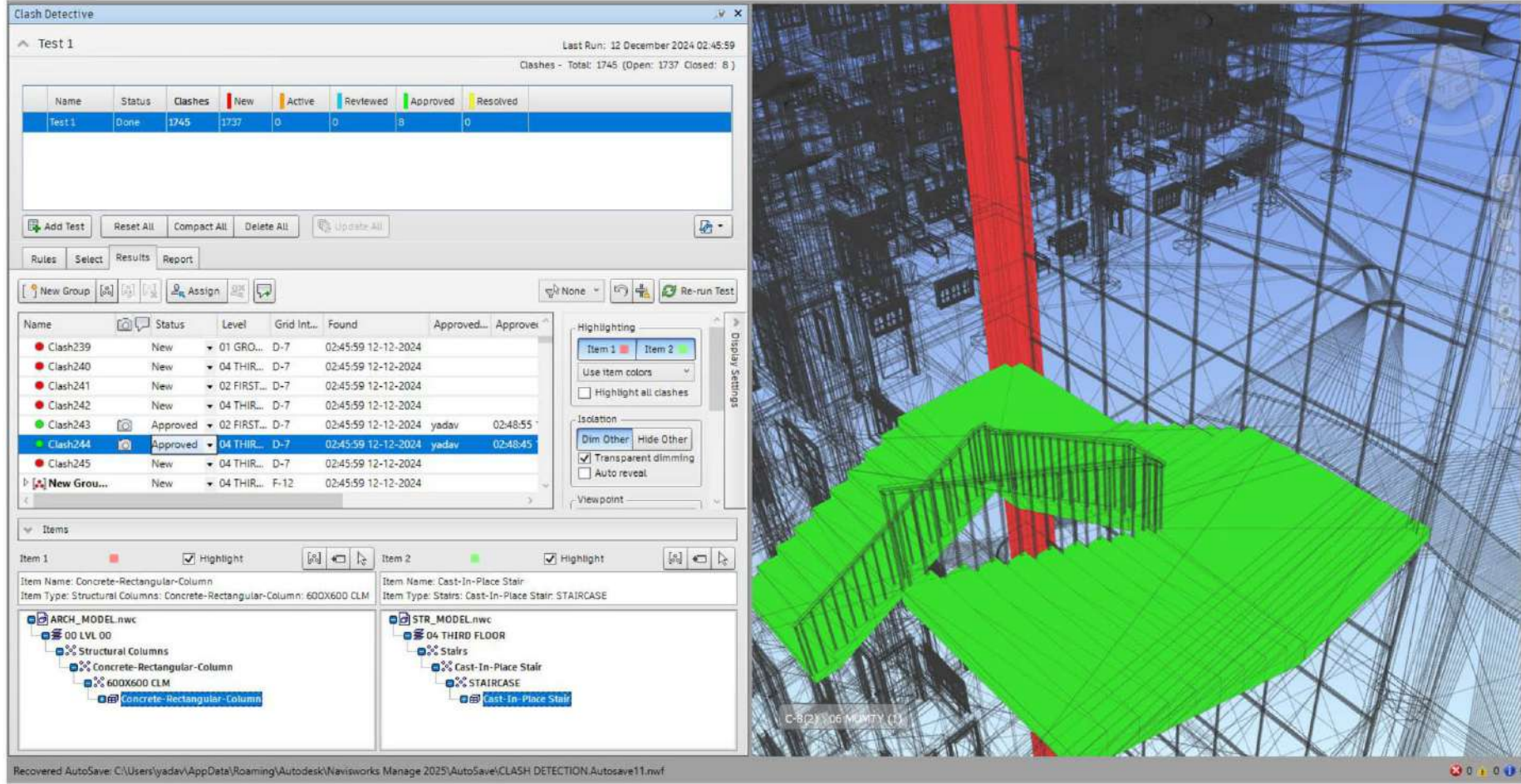BEFORE

ARC VS STR
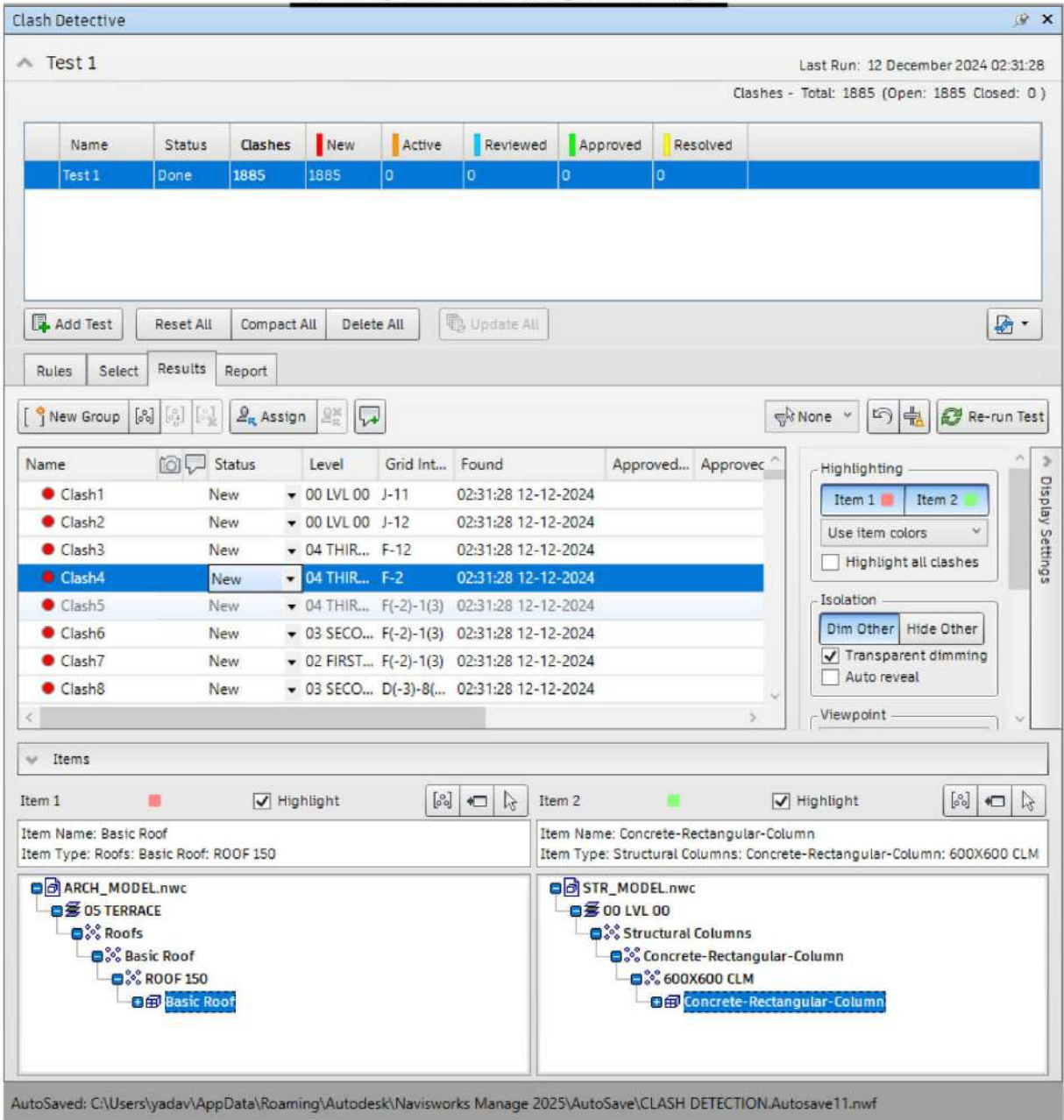AFTER

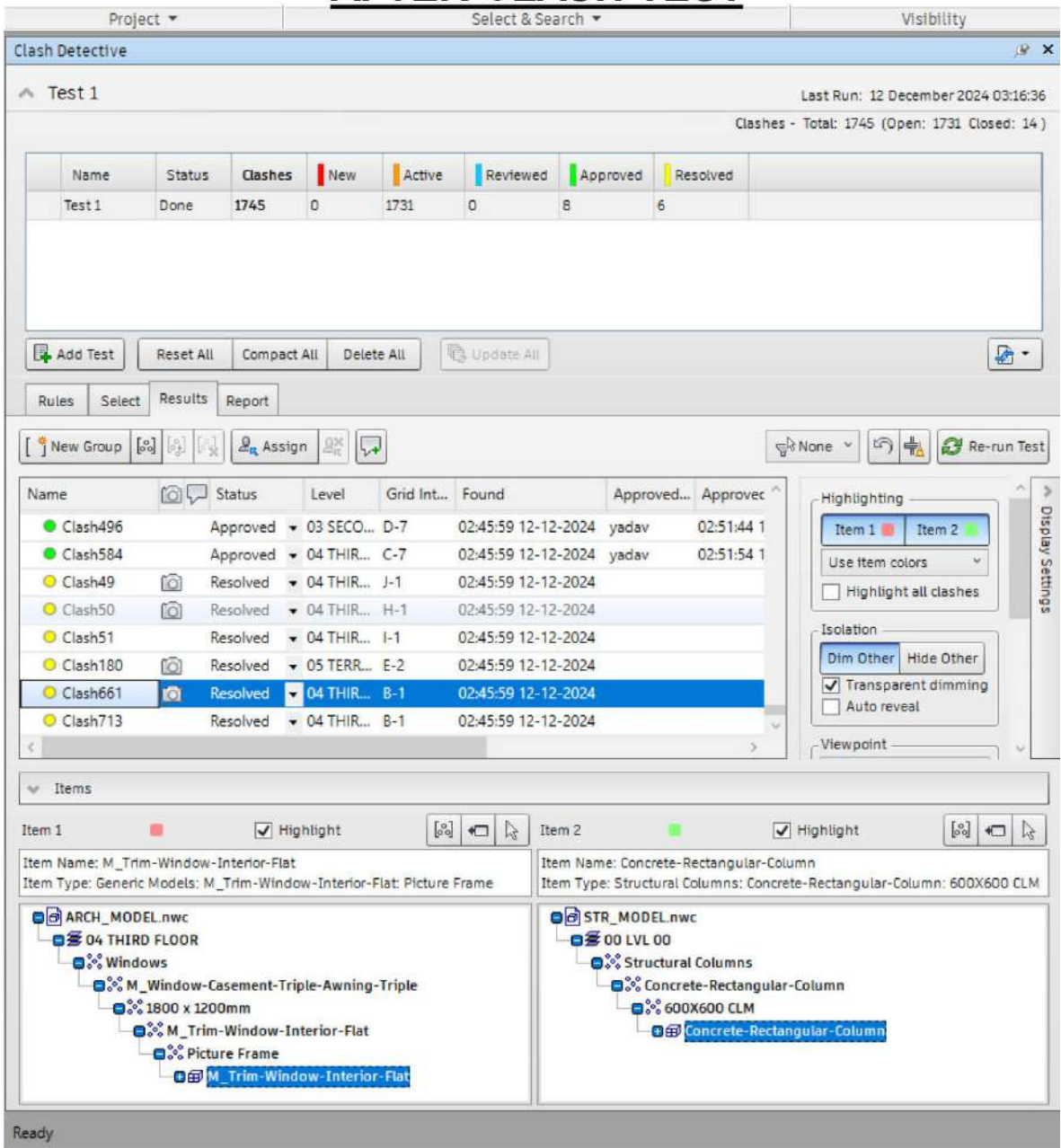# ARC VS STR
AFTER

ARC VS STR
INITIAL CLASH TEST

ARC VS STR
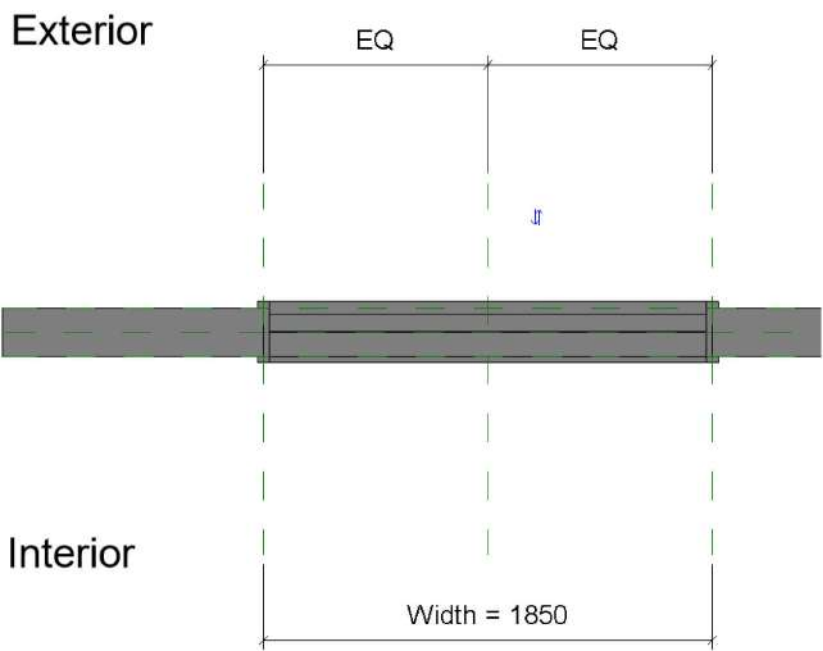APPROVED CLASHES

BEFORE CLASH TEST

AFTER CLASH TEST

04

Custom parametric Families

Louvers with adjustable Angle parameters

Table Family

Exterior

EQ   EQ

Width = 1850

Interior

Exterior

100

Ref. Level
0

3D VIEW SHOWING ADJUSTABLE SIZES AND ANGLE PARAMETERS OF LOUVER PANELS

Family Types

Type name:

Search parameters

Parameter	Value	Formula	Lock
Construction			⌃
Wall Closure	By host	=	
Construction Type		=	
Dimensions			⌃
Angle	45.00°	=	☐
Height	1500.0	=	☑
Panel Width	1800.0	= Width - 50 mm	☑
Width	1850.0	=	☑
Rough Width		=	☑
Rough Height		=	☑
Analytical Properties			⌃
Analytic Construction		=	
Define Thermal Properties by		=	
Visual Light Transmittance		=	
Solar Heat Gain Coefficient		=	
Thermal Resistance (R)		=	
Heat Transfer Coefficient (U)		=	
IFC Parameters			⌃
Export Type to IFC As		=	
Operation		=	
Type IFC Predefined Type		=	
Other			⌃
Default Sill Height	800.0	=	☑
No. Of Louver Panels	15	= (Height - 50 mm) / 100 mm	☑
Identity Data			⌄

How do I manage family types?   OK   Cancel   Apply

Length = 1800

EQ   EQ

50   50

Width = 900

EQ

EQ

50

50

REFERENCE LVL

Family Types

Type name:

Search parameters
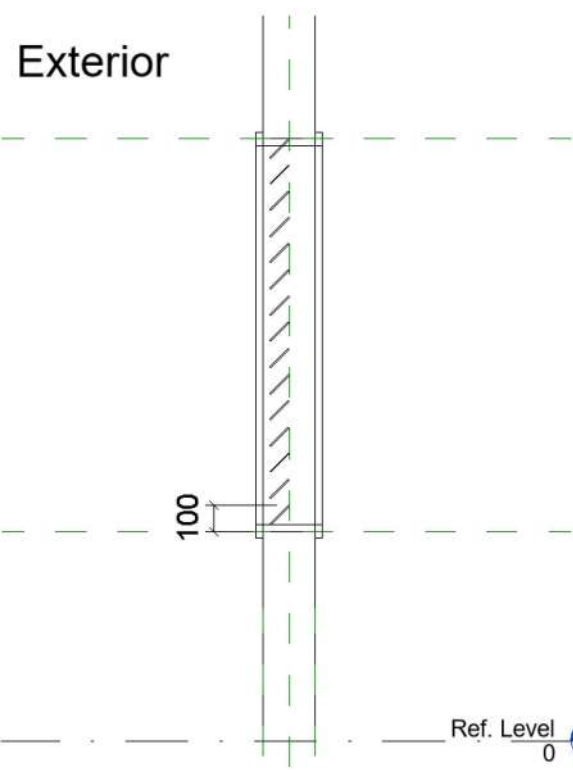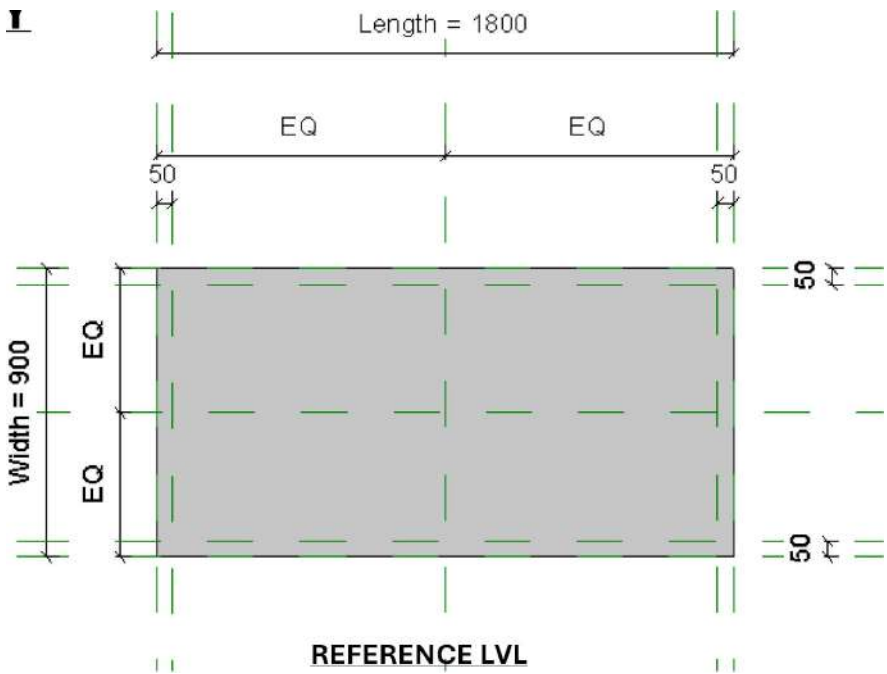
Parameter	Value	Formula	Lock
Constraints			⌃
Default Elevation	0.0	=	☐
Materials and Finishes			⌃
Tabletop Finish (default)	BEECHWOOD	=	
Dimensions			⌃
Height	900.0	=	☐
Length	1800.0	=	☐
Width	900.0	=	☐
IFC Parameters			⌃
Type IFC Predefined Type		=	
Export Type to IFC As		=	
Identity Data			⌄

How do I manage family types?   OK   Cancel   Apply   Manage Lookup Tables

Parameter Properties

Parameter Type
◉ Family parameter
  (Cannot appear in schedules or tags)
○ Shared parameter
  (Can be shared by multiple projects and families, exported to ODBC, and appear in schedules and tags)

Select...   Export...

Parameter Data
Name:
Length   ◉ Type
Discipline:
Common   ○ Instance
Data Type: ☐ Reporting Parameter
Length   (Can be used to extract value from a geometric condition and report it in a formula or as a schedulable parameter)
Group parameter under:
Dimensions
Tooltip description:
<No tooltip description. Edit this parameter to write a custom tooltip. Custom
Edit Tooltip...

How do I create family parameters?   OK   Cancel

Parameter Properties

Parameter Type
◉ Family parameter
  (Cannot appear in schedules or tags)
○ Shared parameter
  (Can be shared by multiple projects and families, exported to ODBC, and appear in schedules and tags)

Select...   Export...

Parameter Data
Name:
Tabletop Finish   ◉ Type
Discipline:
Common   ○ Instance
Data Type: ☐ Reporting Parameter
Material   (Can be used to extract value from a geometric condition and report it in a formula or as a schedulable parameter)
Group parameter under:
Materials and Finishes
Tooltip description:
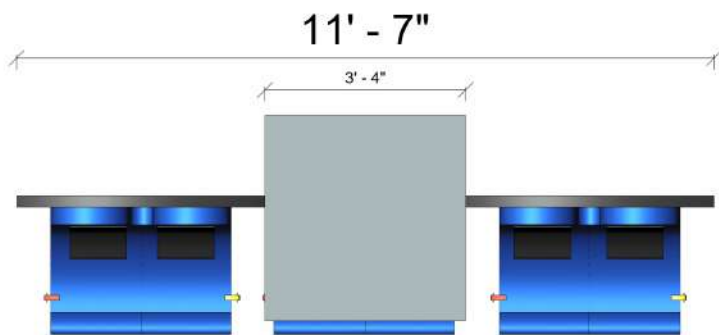<No tooltip description. Edit this parameter to write a custom tooltip. Custom
Edit Tooltip...

How do I create family parameters?   OK   Cancel

75

Height = 900

Ref. Level
0
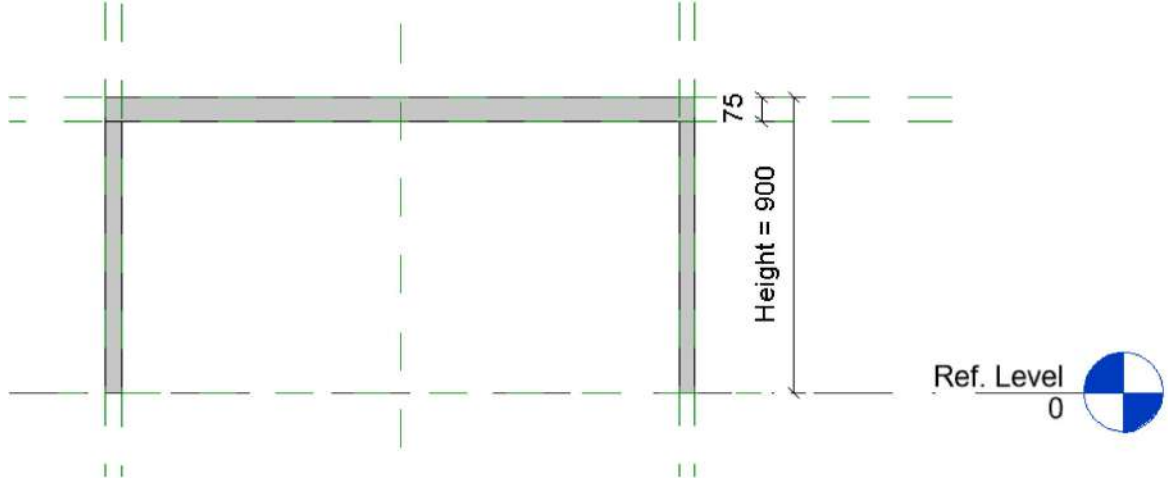
Roller Coaster Family For Amusement Park

72' - 0"

36' - 0"   36' - 0"

18' - 8"

18' - 8"

37' - 4"

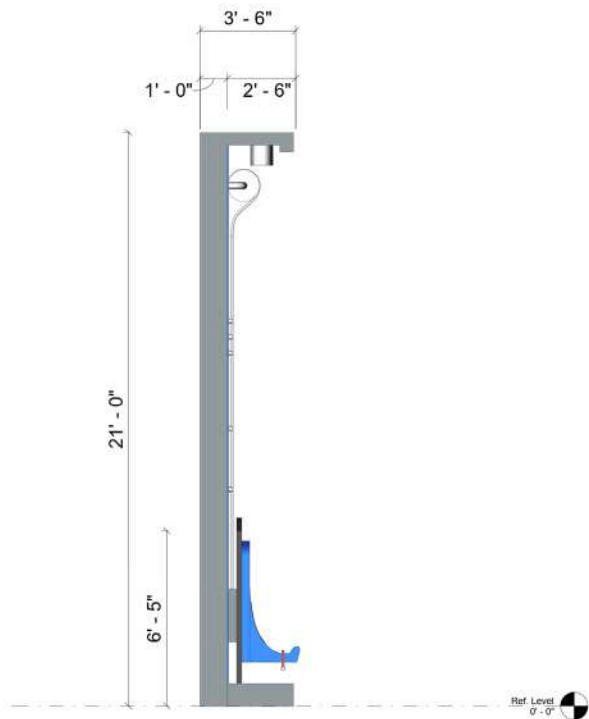Plan View

3D View

72' - 0"

10' - 9"
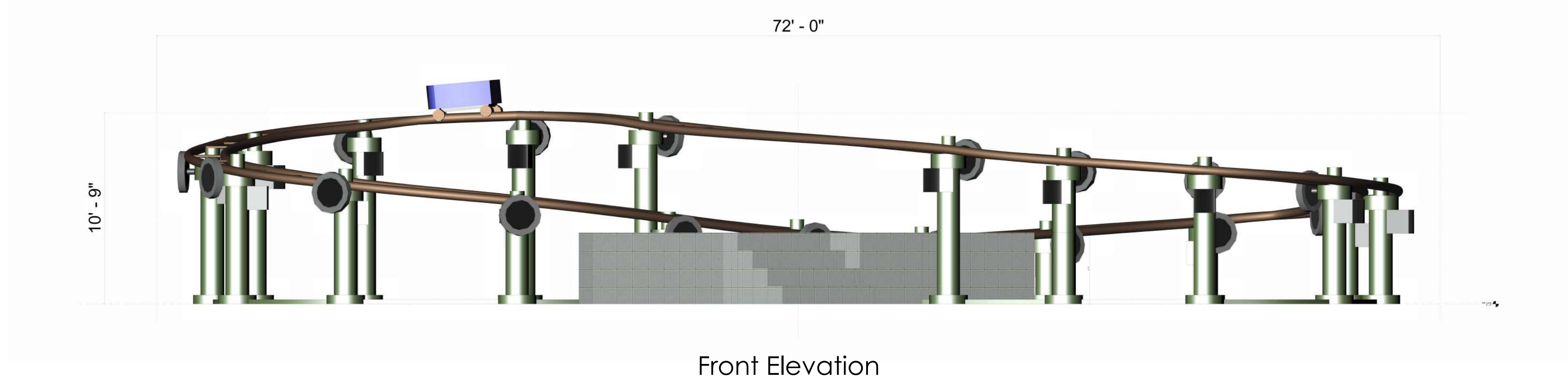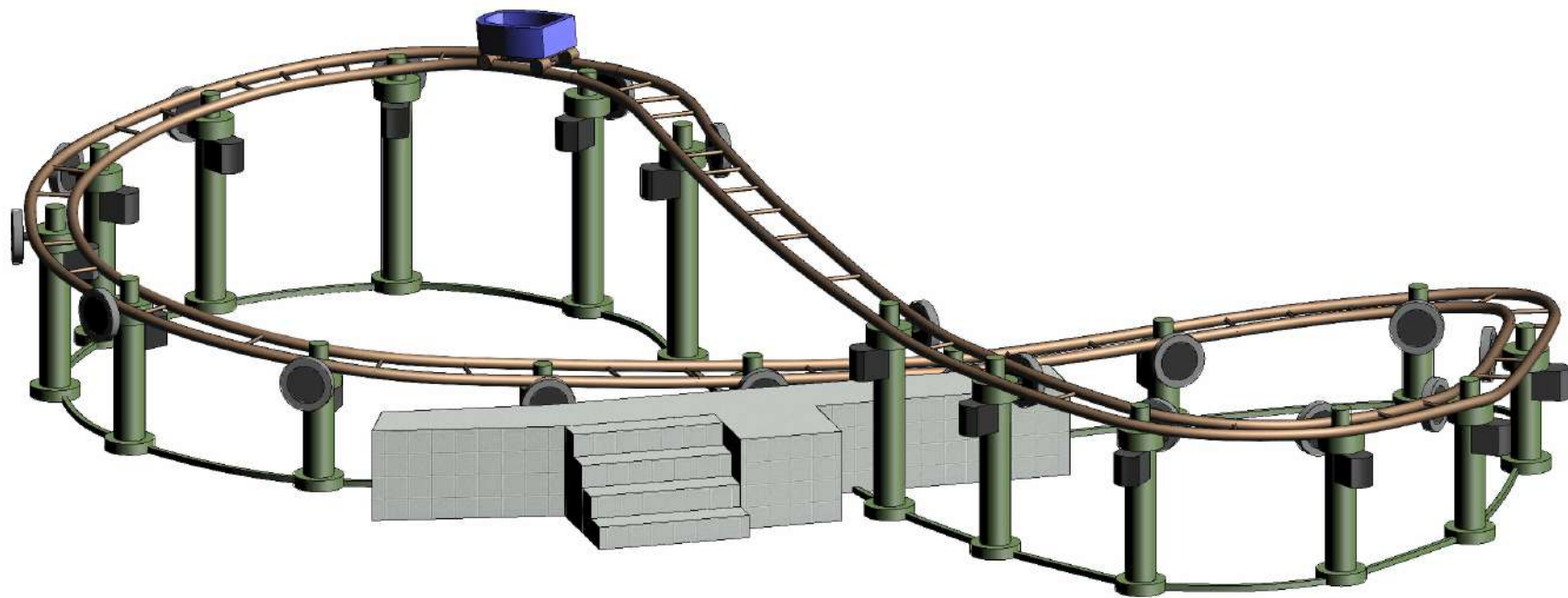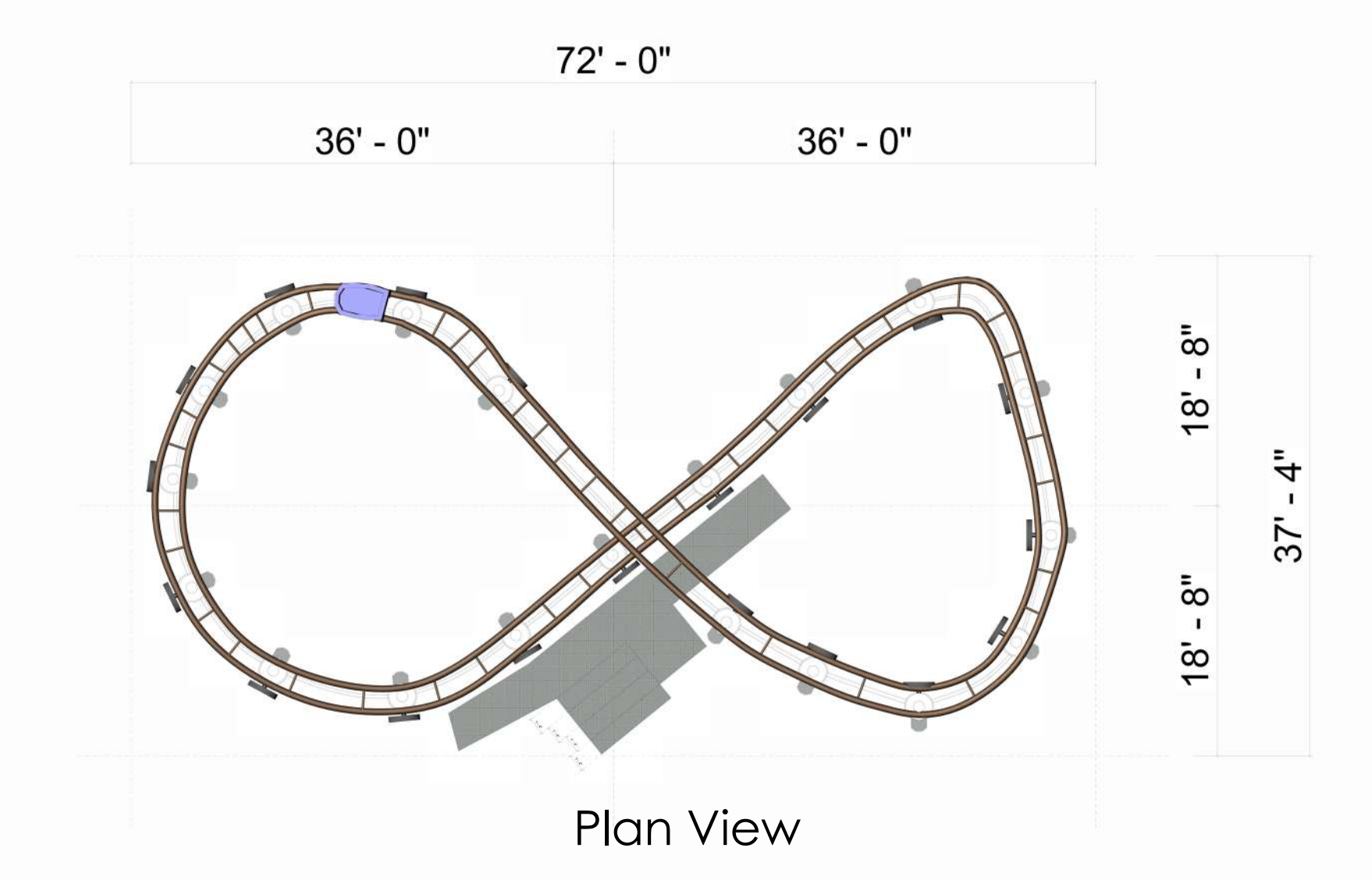
Front Elevation
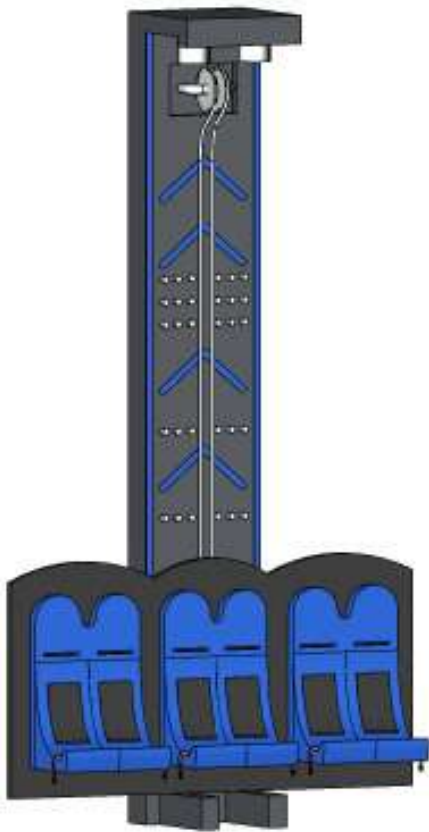
Drop Tower Custom Family For Gaming Arcade

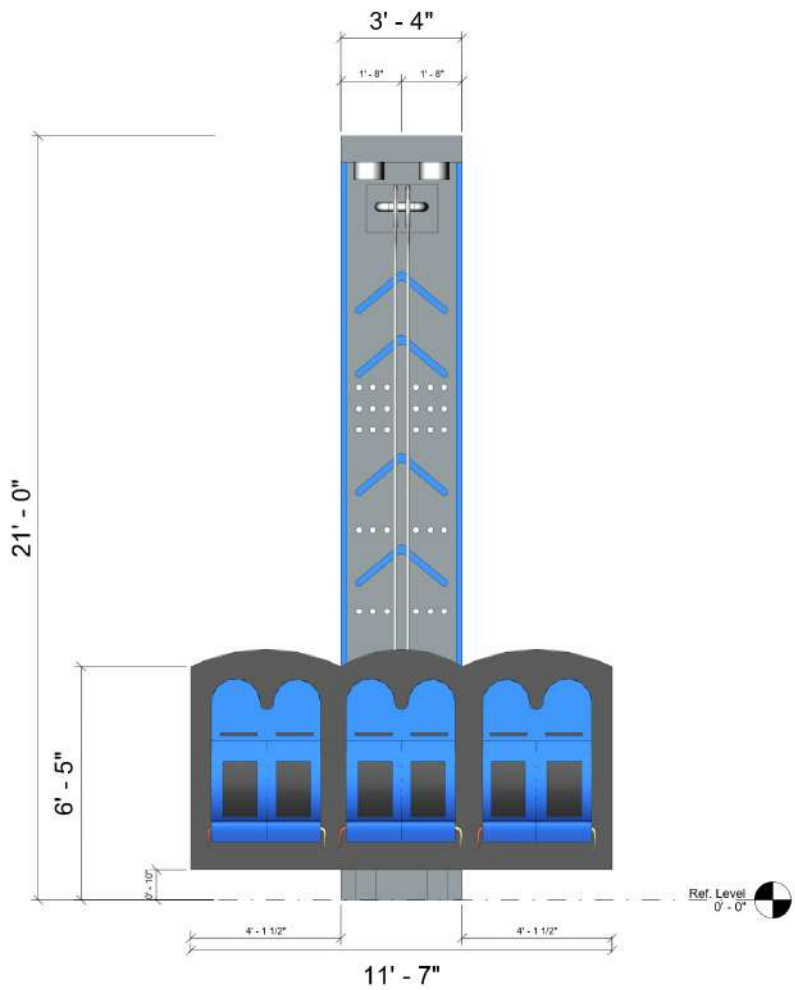Plan View

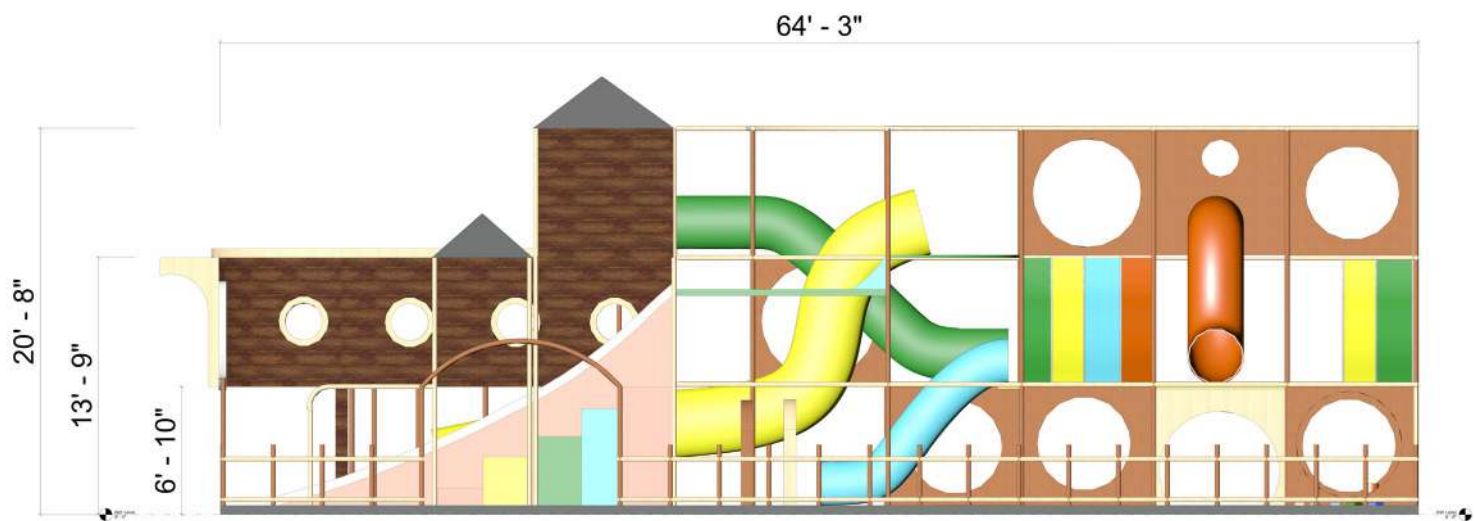Left Elevation

3D View

Front Elevation

Bounce Beach Custom Family For Amusement

Bounce Beach 1

Bounce Beach 2

Front Elevation

Thank you!