

# Building & Construction Authority Singapore

## Visit to AIAB

David Fung

*HKIA Registered Architect  
AIAB immediate past Chairman*

*Hong Kong Institute of BIM  
HKIBIM Board Member*

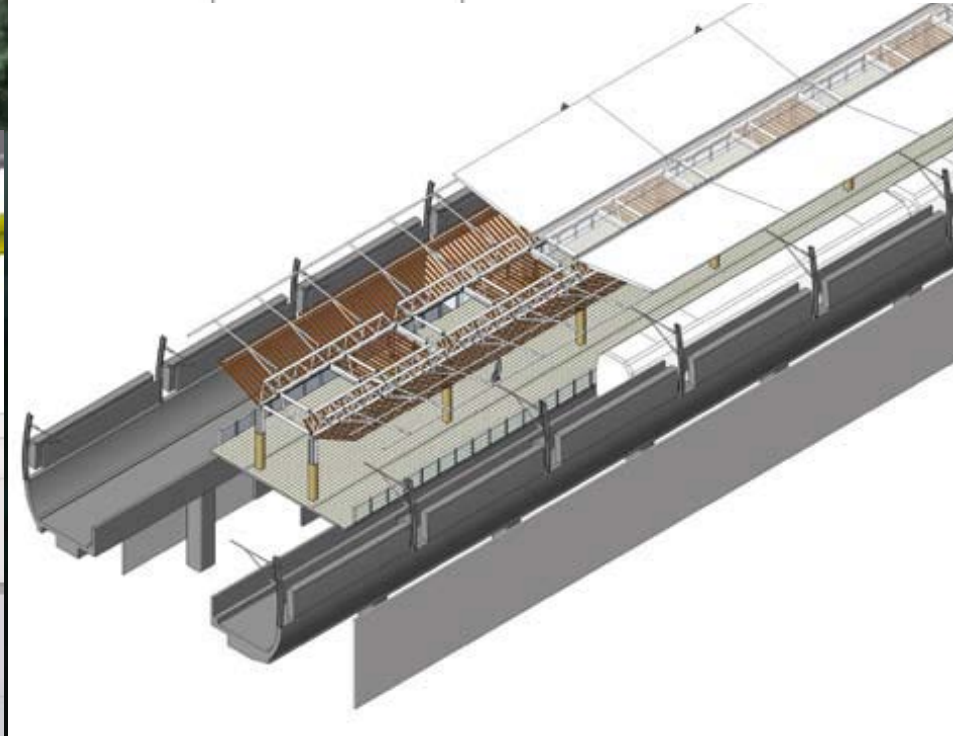
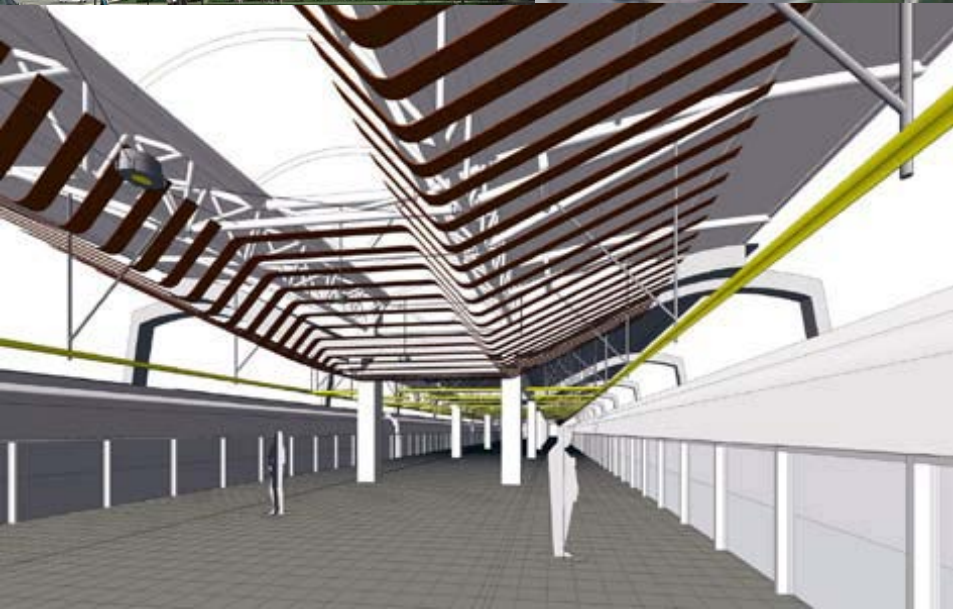
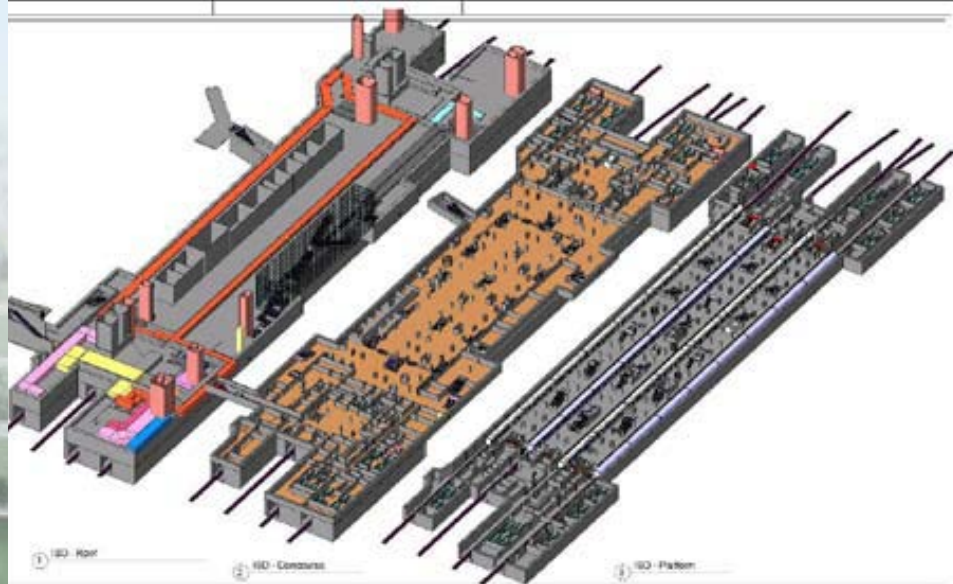
# BIM 的運用範圍

1. **Design visualization** 型像化設計
2. **Drawing Productions** 製作圖件
3. **Services Co-ordination and Clash detection with other disciplines** 各專業協調
4. **Quantity taking and preparation of Tender Document** 投標文件
5. **Automated Statutory Submission** 自動化審批
6. **Scientific analysis of different environmental aspects** 科學性分析
7. **Supply Chain Integration with the manufacturing and production** 生產制造
8. **Complex Geometry** 複雜幾何形狀
9. **Facility Management** 資產管理



# **PRELIMINARY DESIGN**

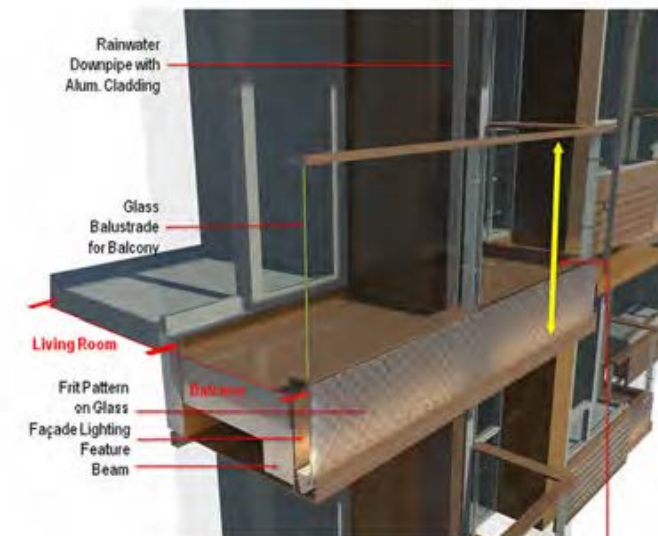




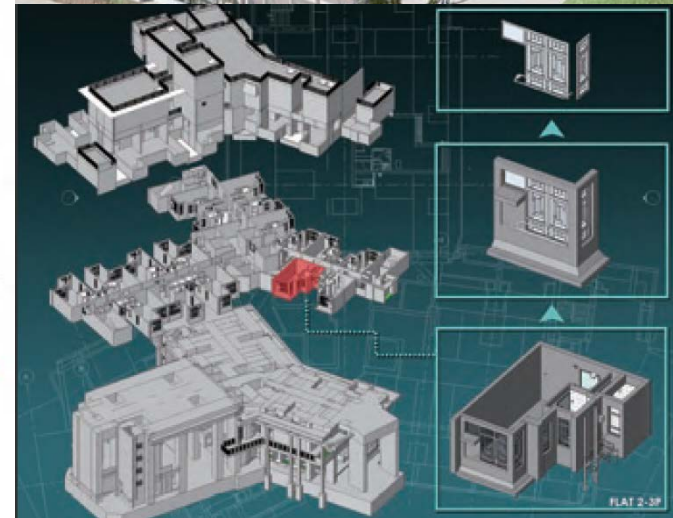




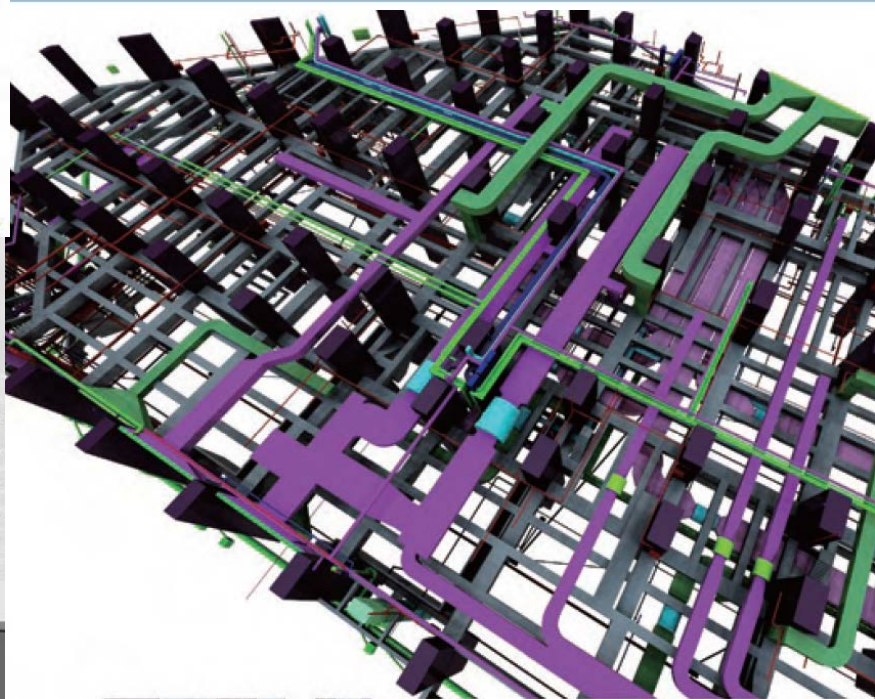
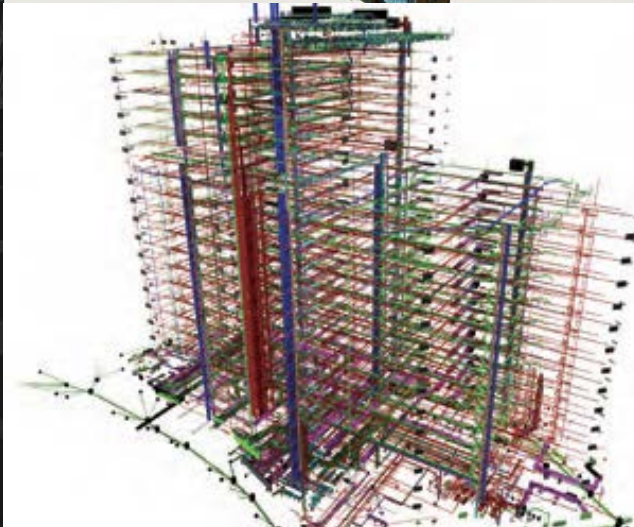
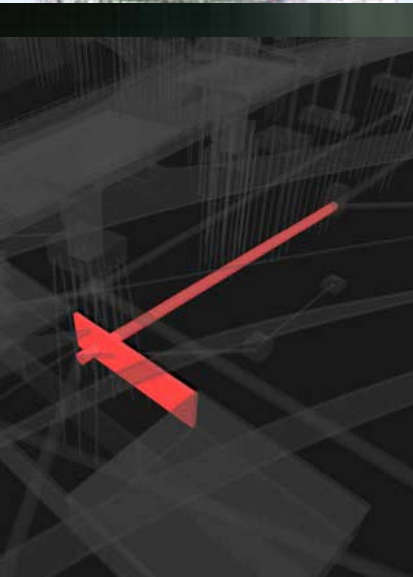
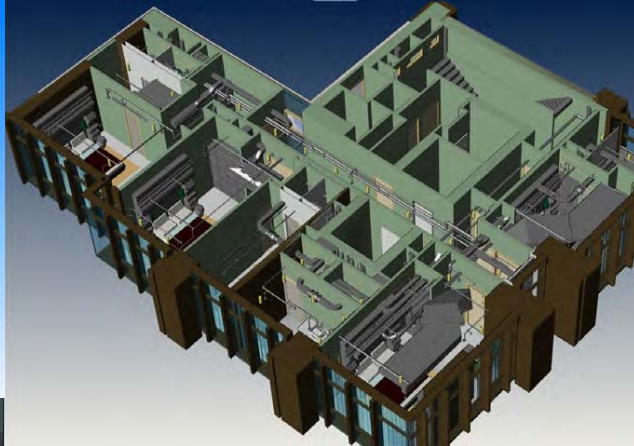
# **DETAILED DESIGN**



One piece glass balustrade with lighting to highlight the balcony



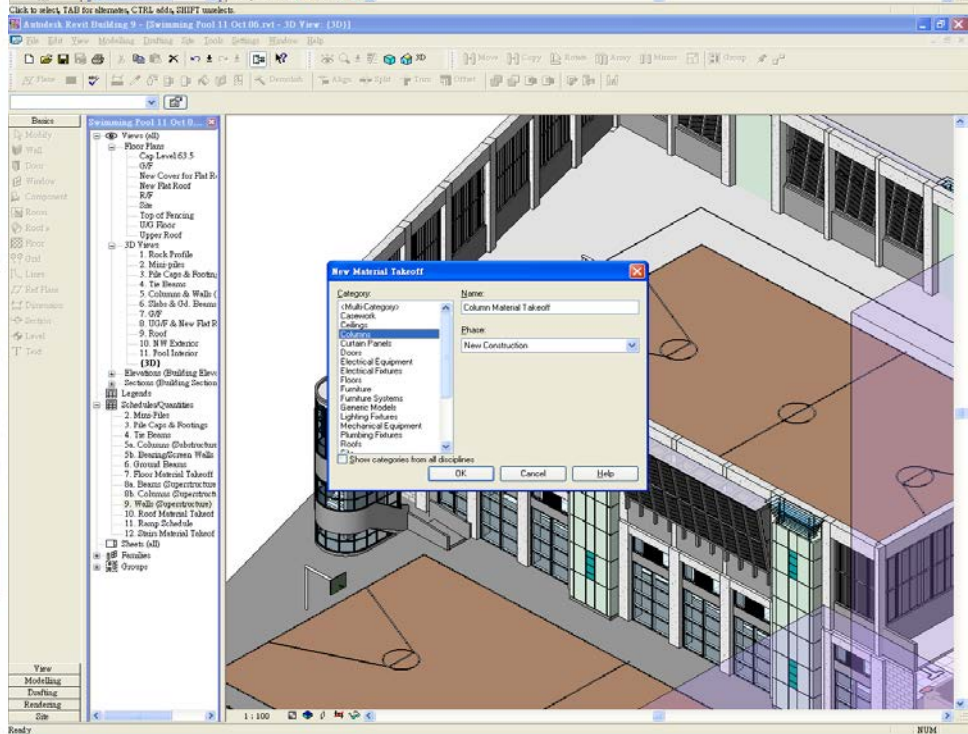
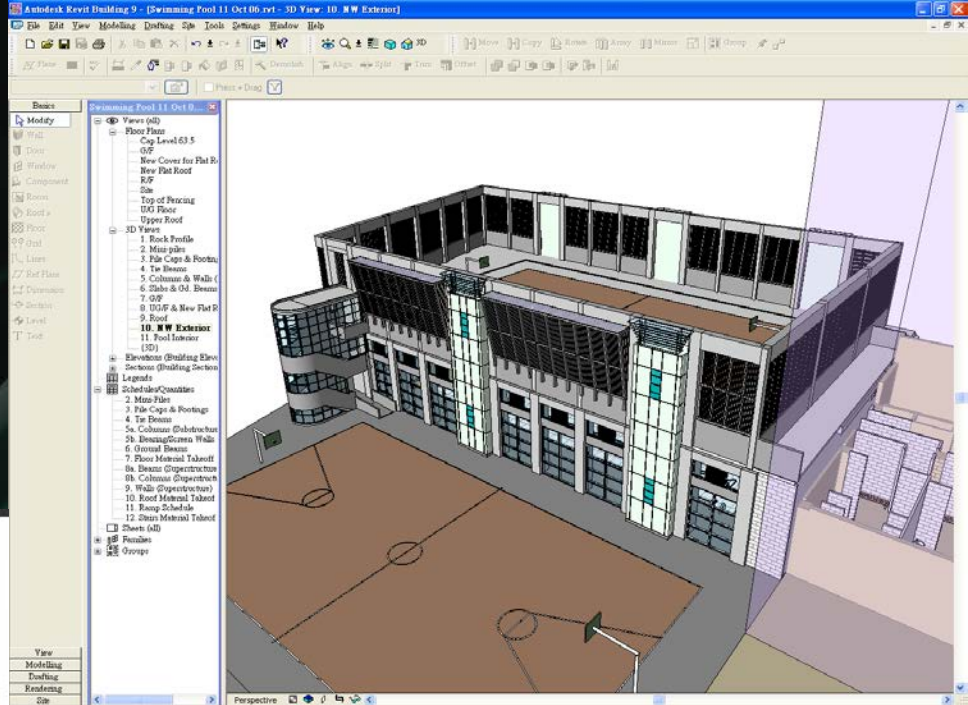
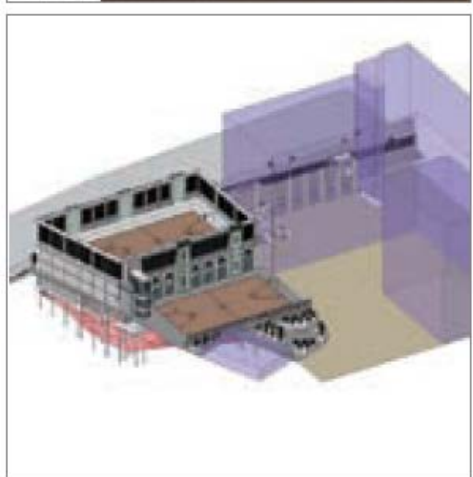






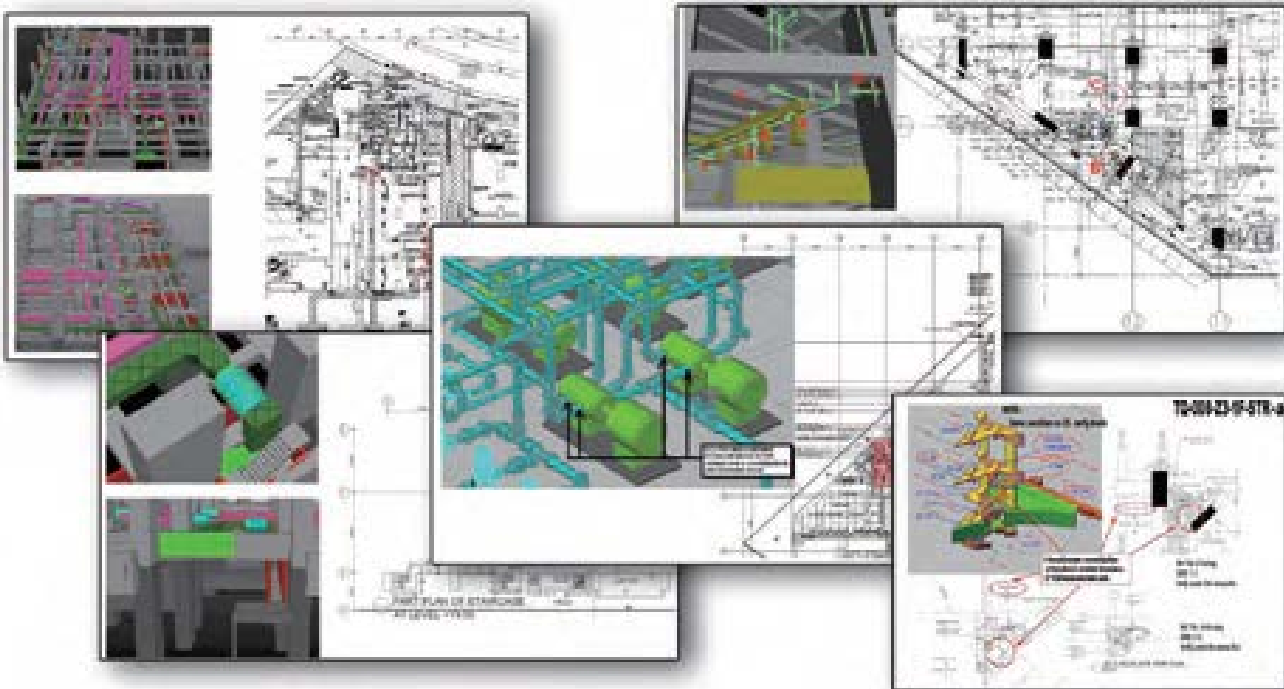


# QUANTITY TAKING



# **DRAWINGS PRODUCTIONS**

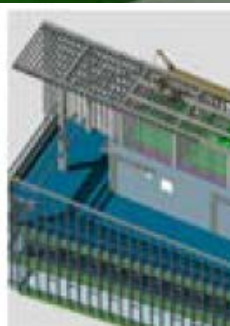
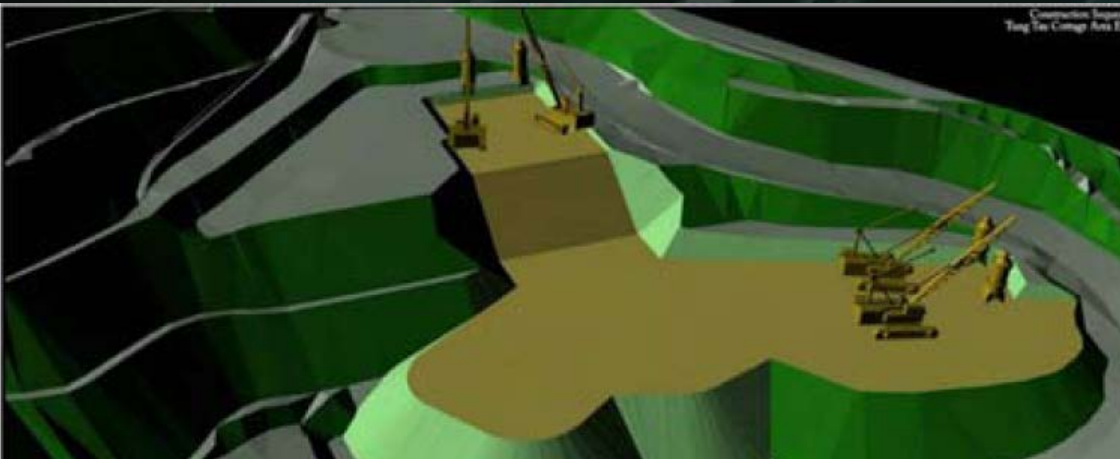
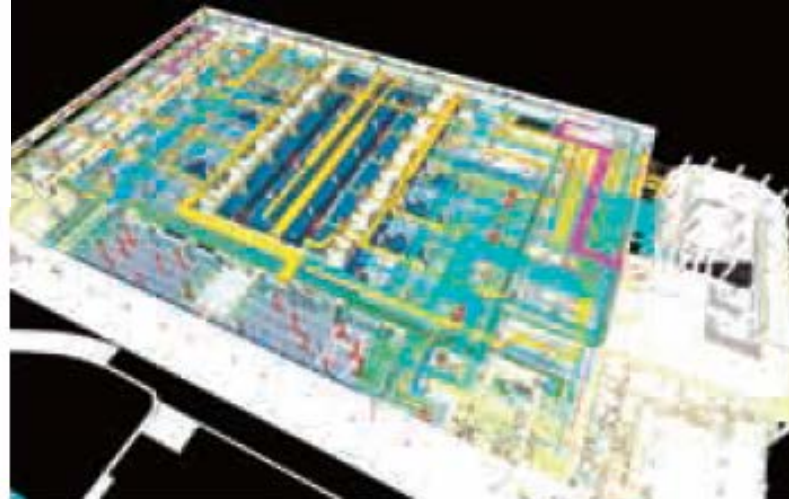
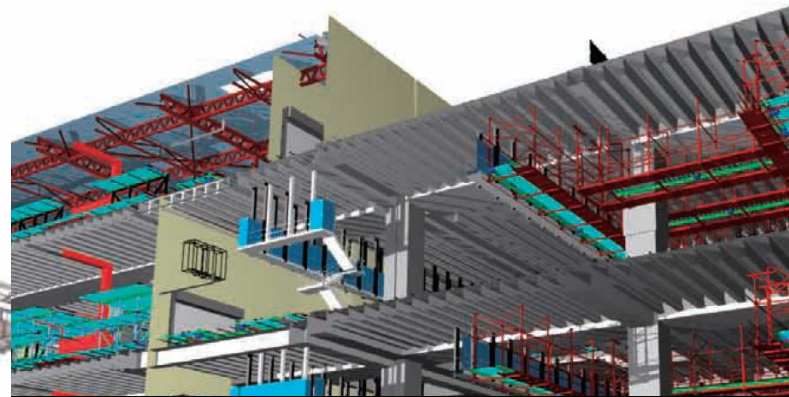
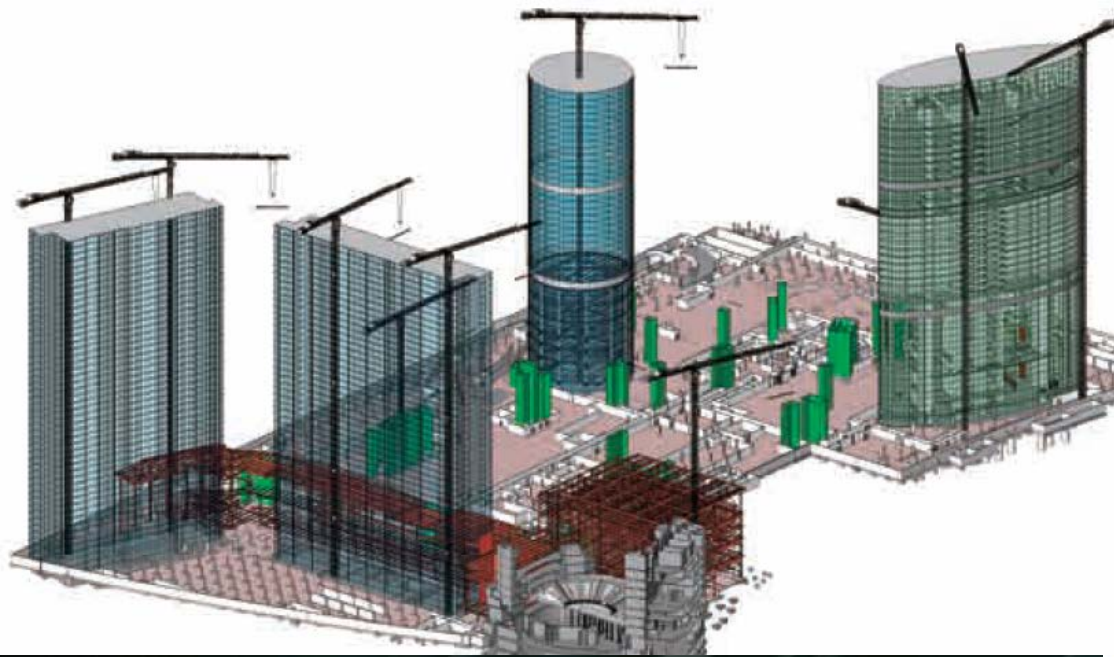




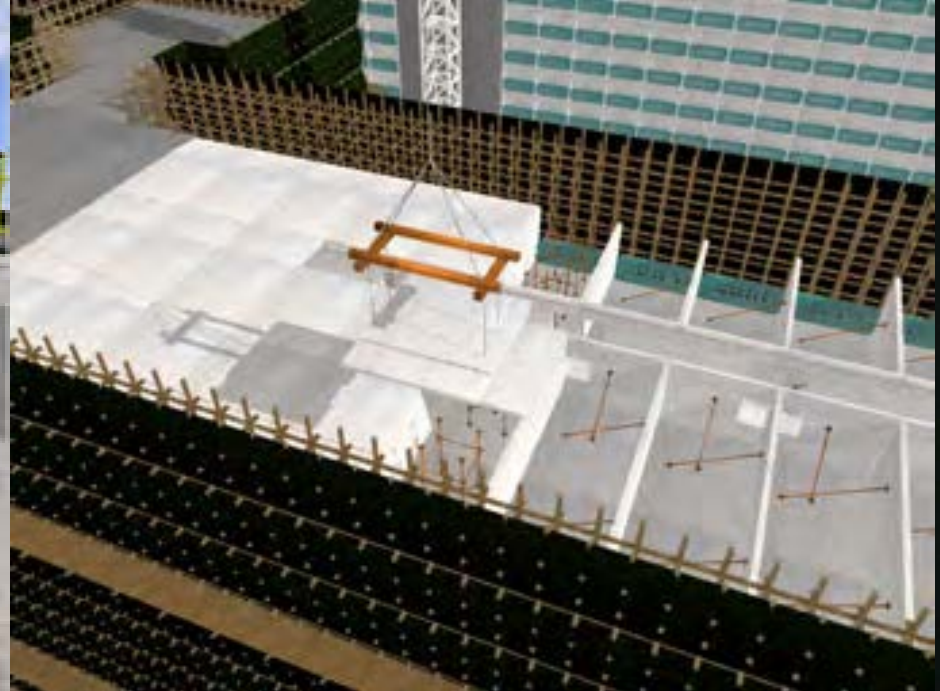
The background is a dark, moody composition. It features large, fluid, and somewhat crystalline shapes that appear to be in motion, possibly representing liquid or smoke. These shapes are set against a background with a subtle grid pattern, which is more visible in the upper left and lower right areas. The overall color palette is dark, with shades of black, deep blue, and grey, accented by the bright yellow text.

**CONSTRUCTION**







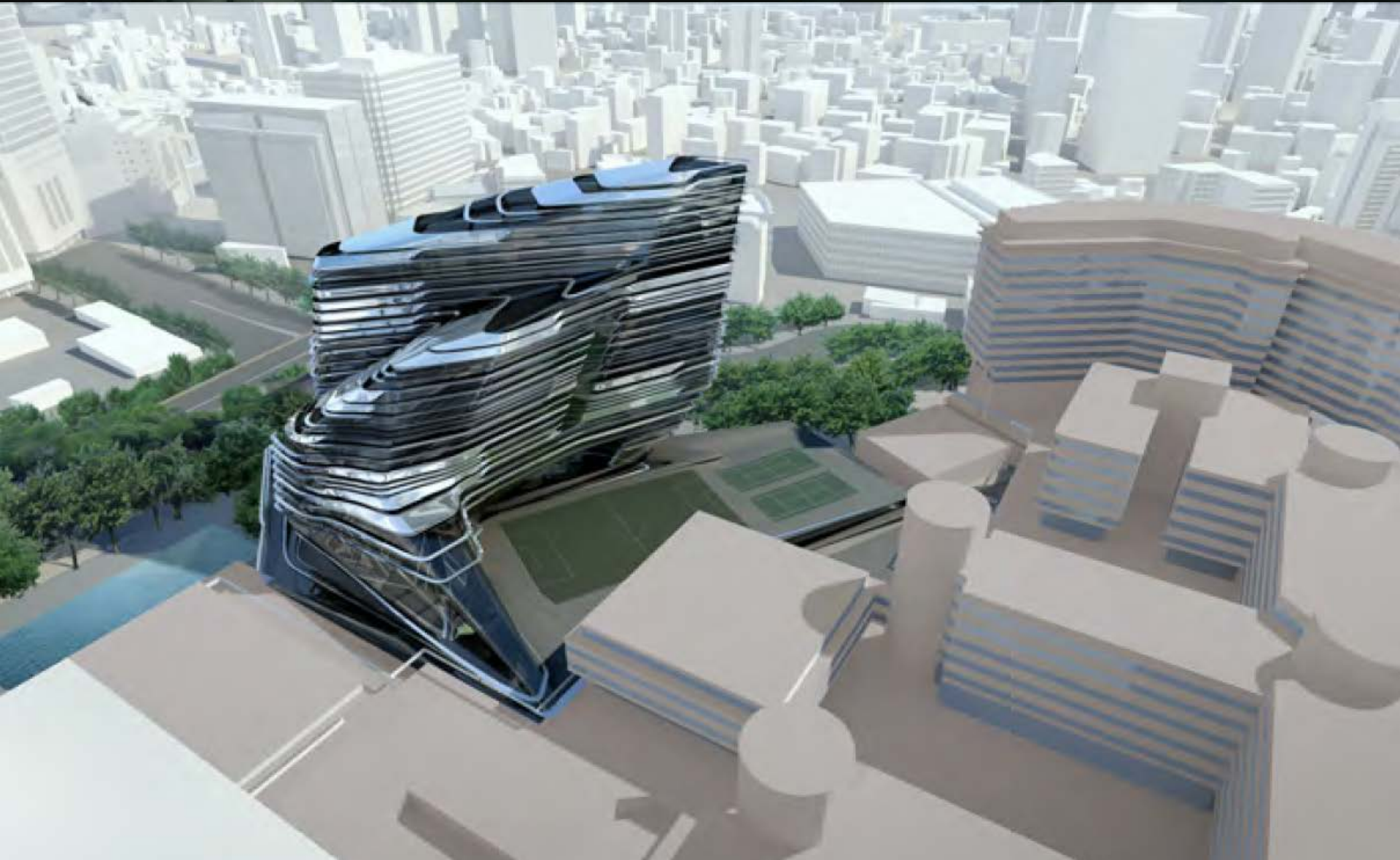


# HONG KONG POLYTECHNIC UNIVERSITY





# HONG KONG POLYTECHNIC UNIVERSITY

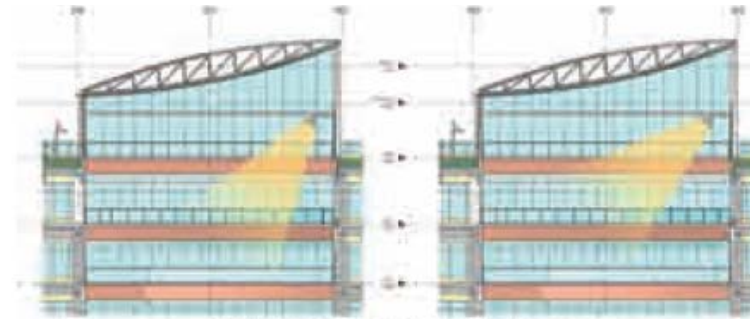
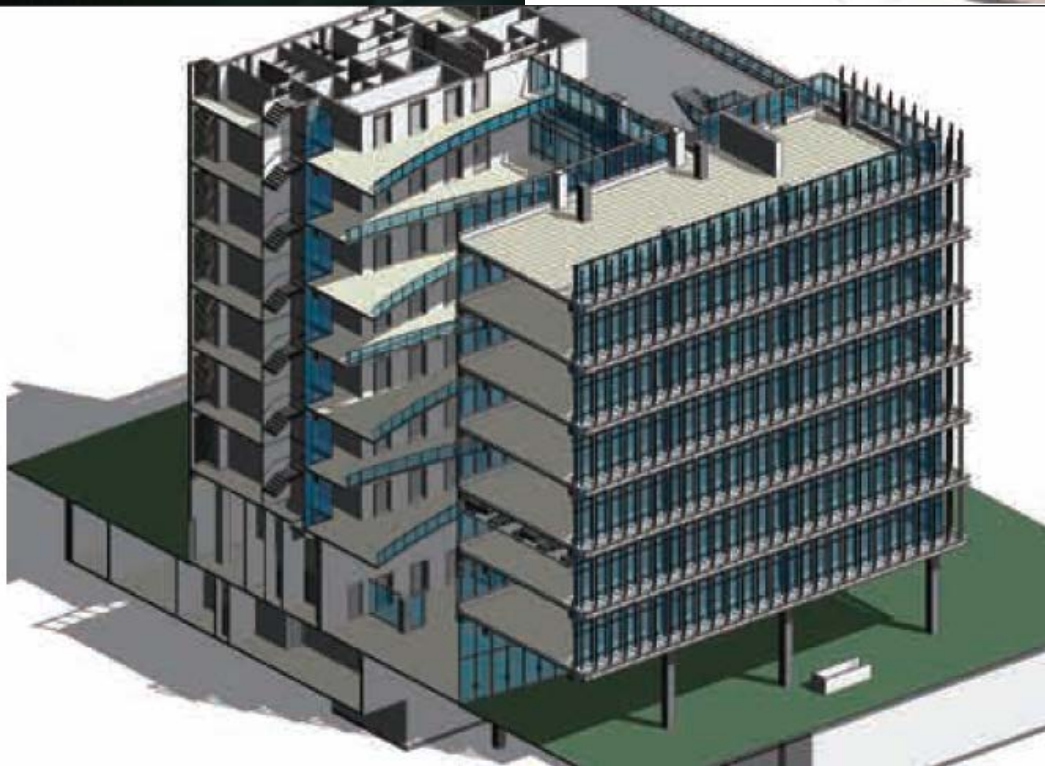
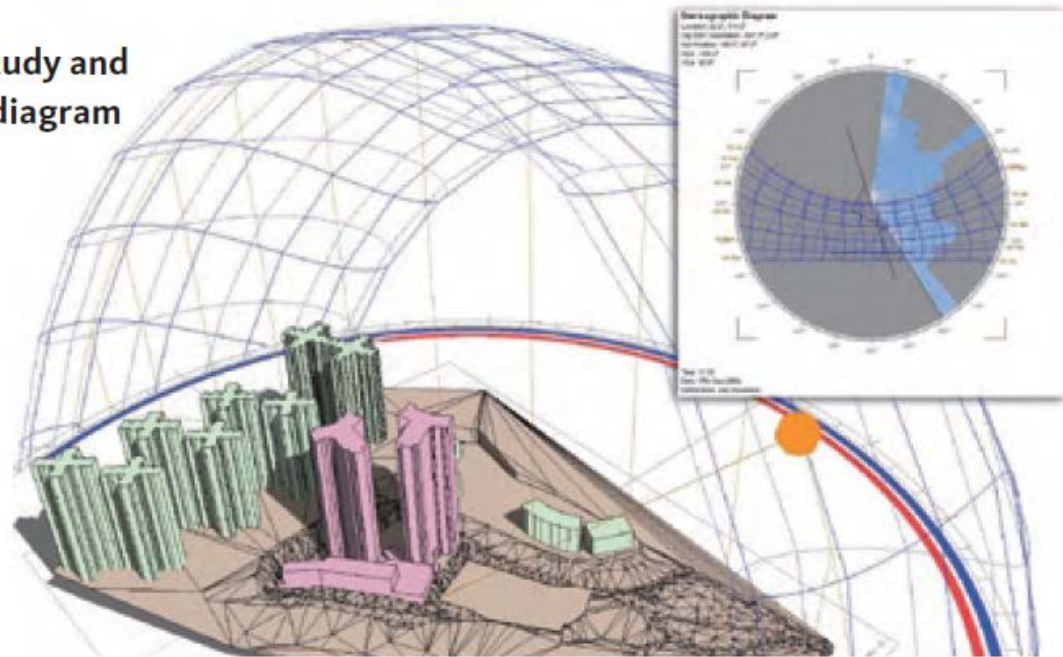






**SUSTAINABILITY**

## Shadow Study and Sun-path diagram



VARYING REFLECTOR ANGLE DURING THE DAY



WITHOUT REFLECTOR

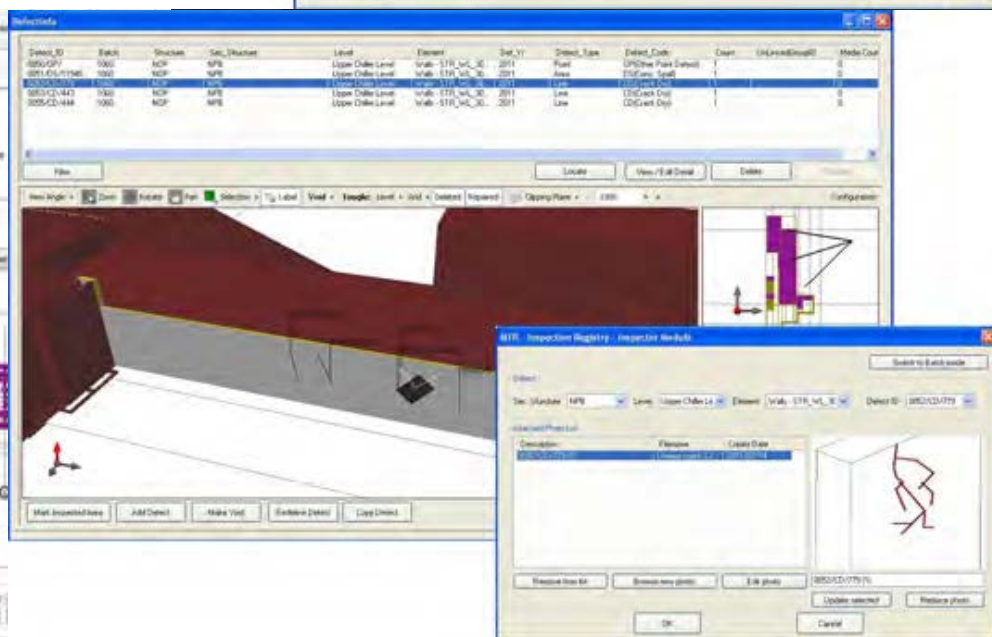
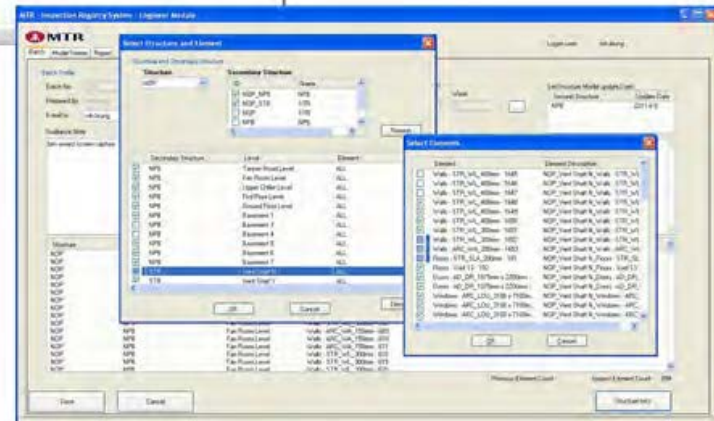
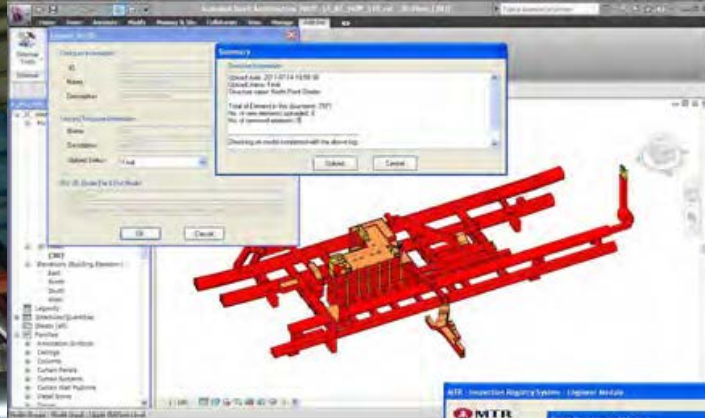


WITH REFLECTOR



# **FACILITY MANAGEMENT**

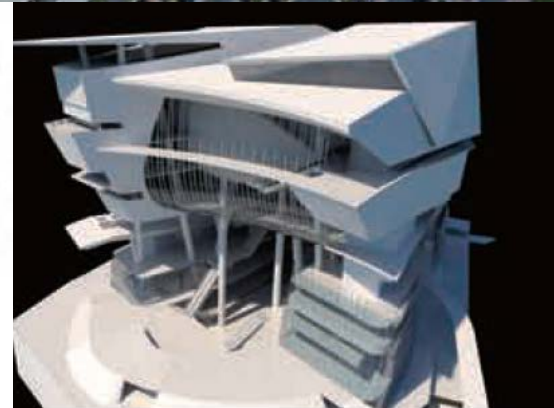
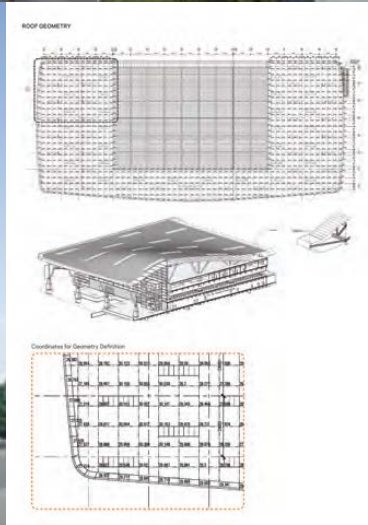




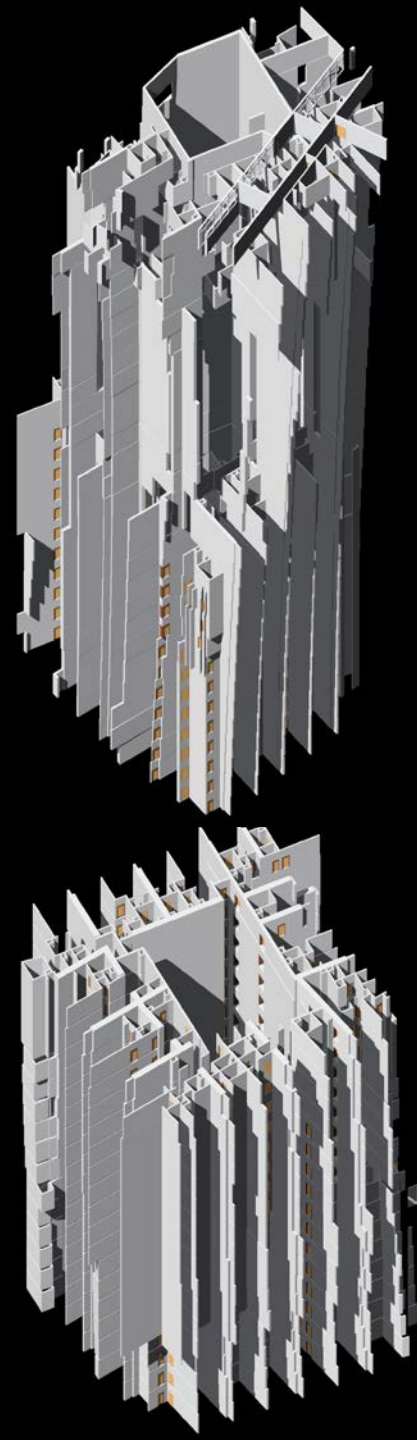
# COMPLEX GEOMETRY

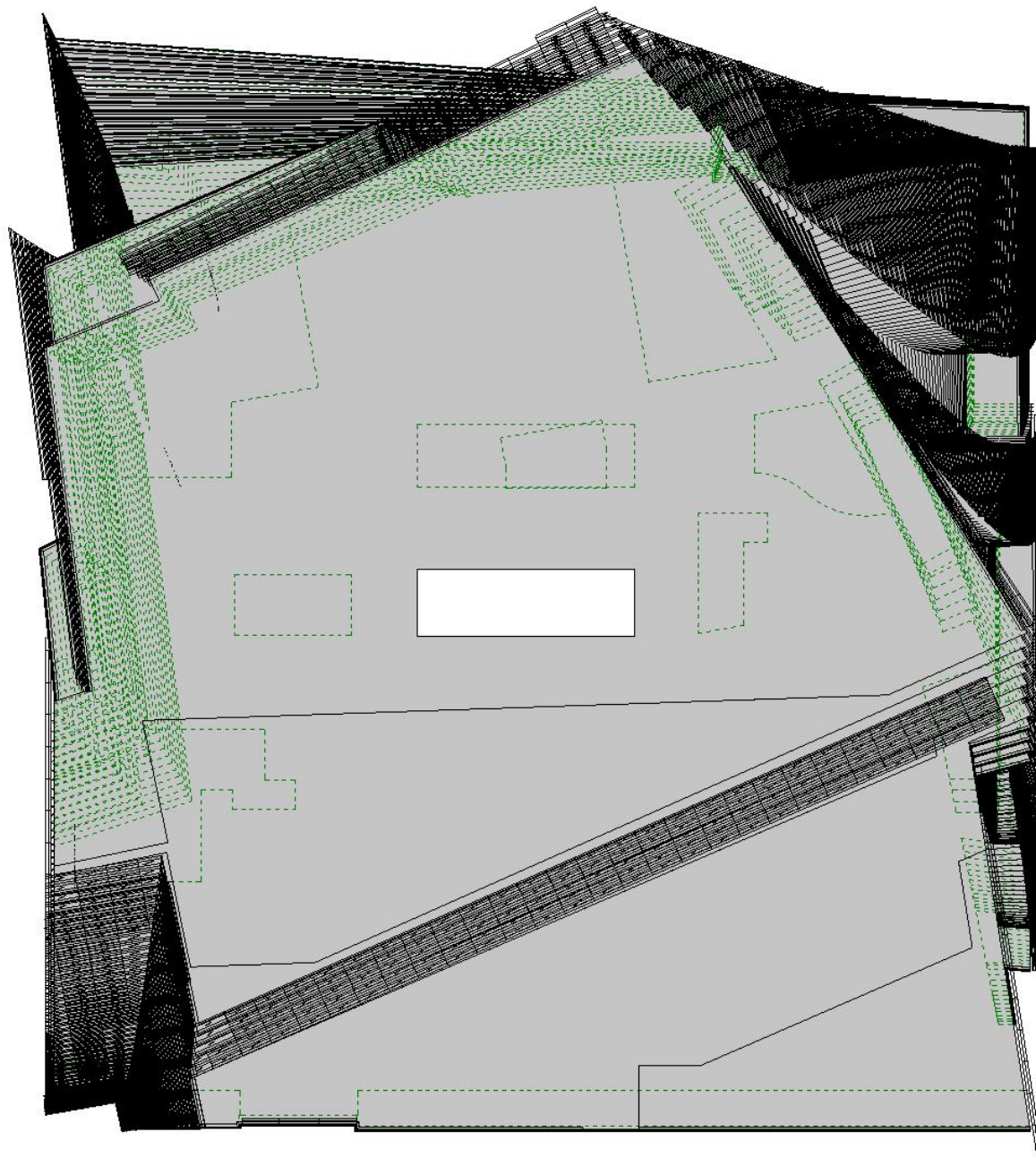
The background of the slide is a dark, abstract composition. It features several large, overlapping, liquid-like shapes in shades of dark teal and black, which appear to be flowing or swirling. A faint, light-colored grid pattern is visible in the background, particularly on the left side where it is more prominent. The overall lighting is low, creating a sense of depth and complexity.



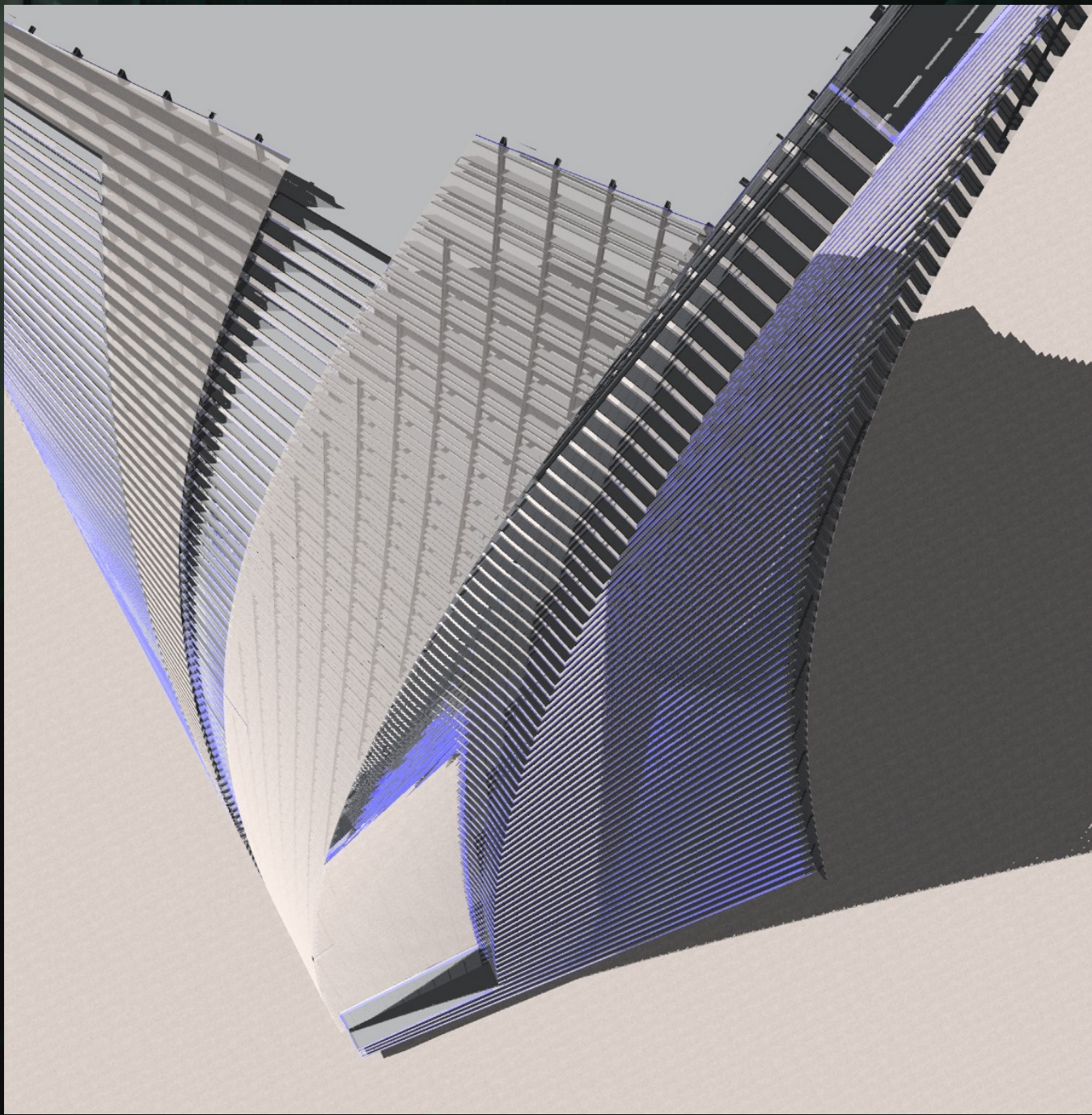


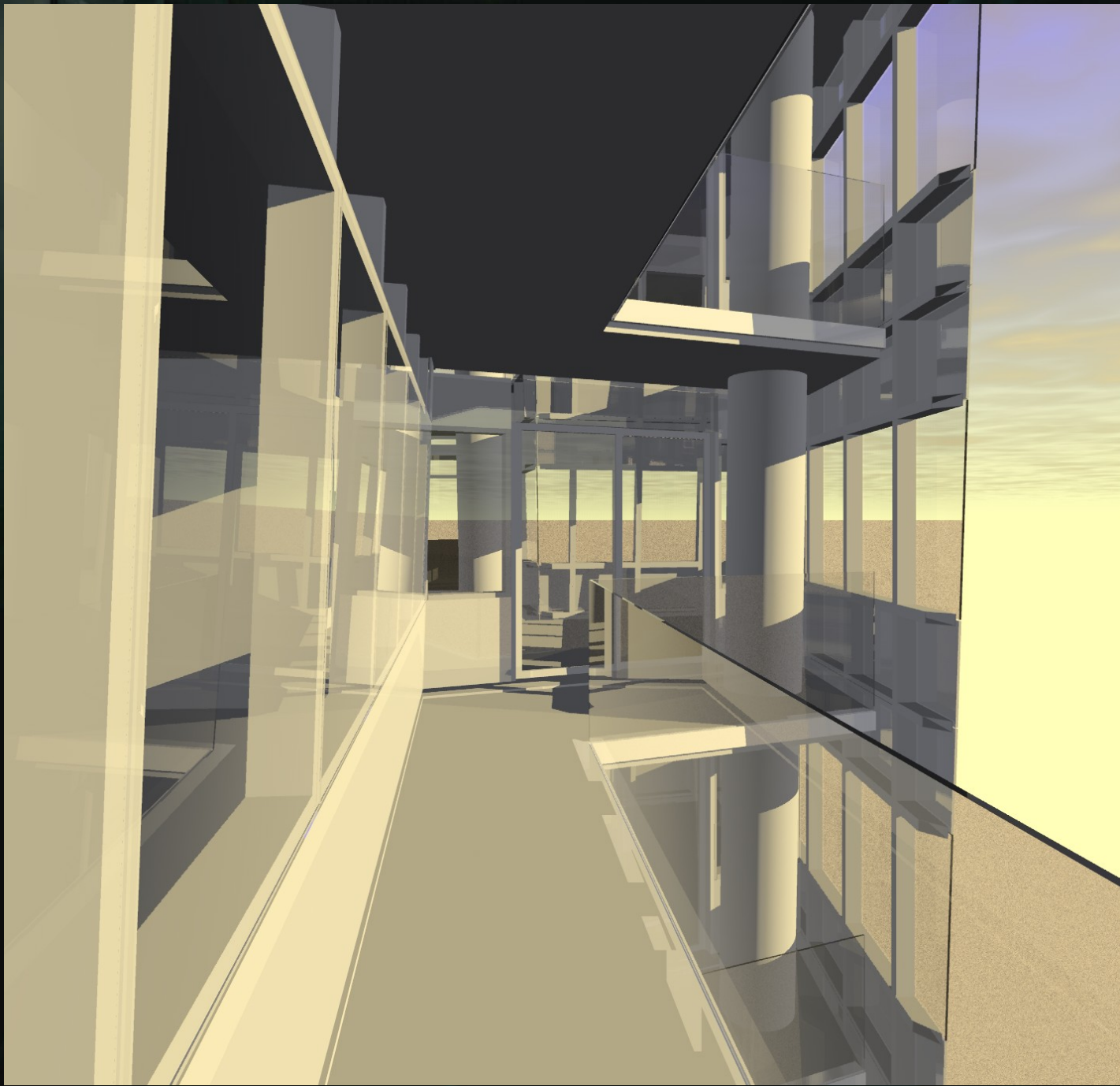




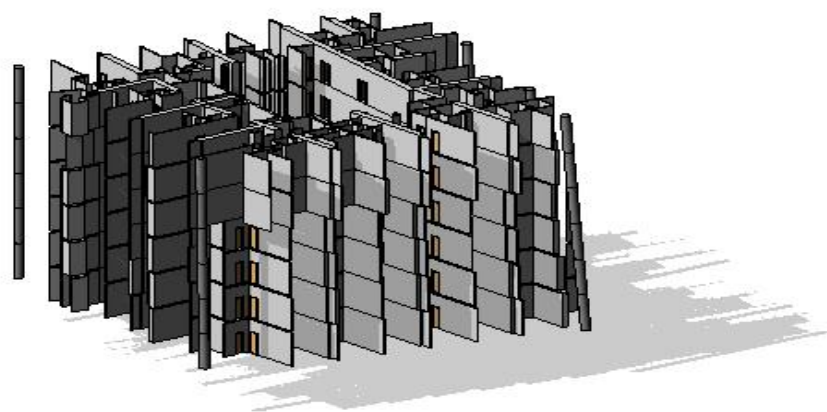


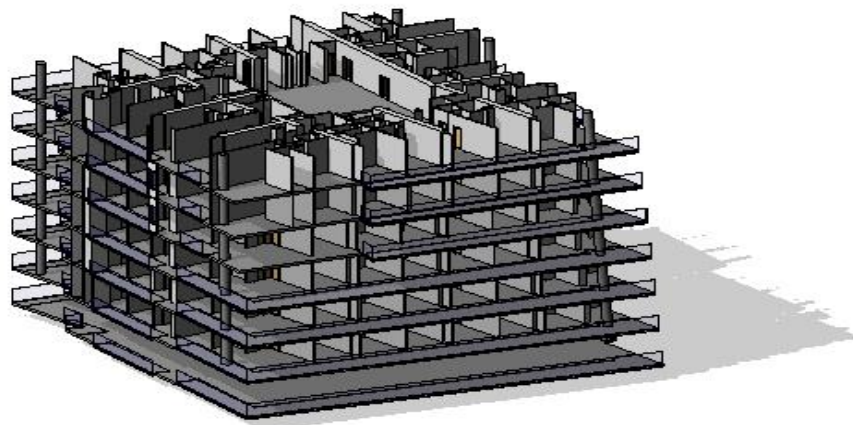
















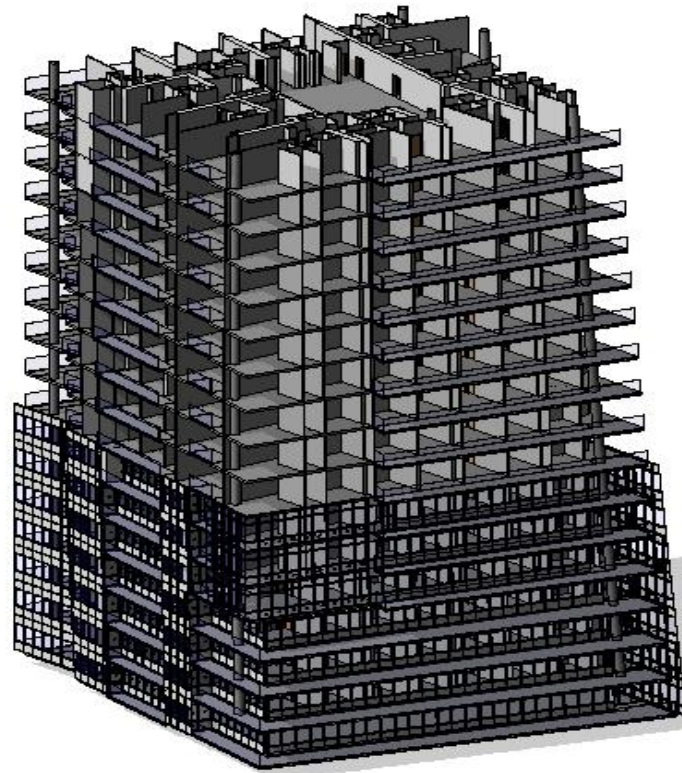














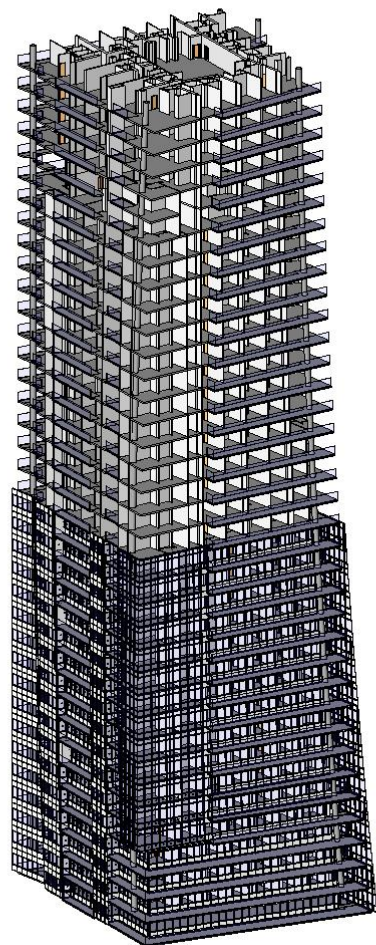




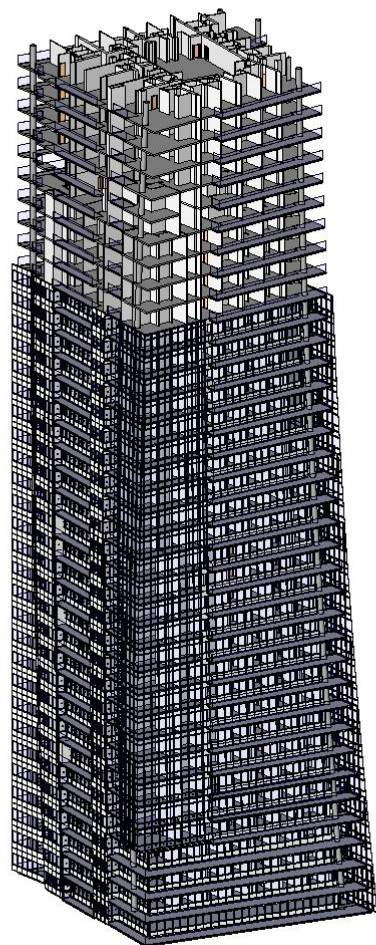


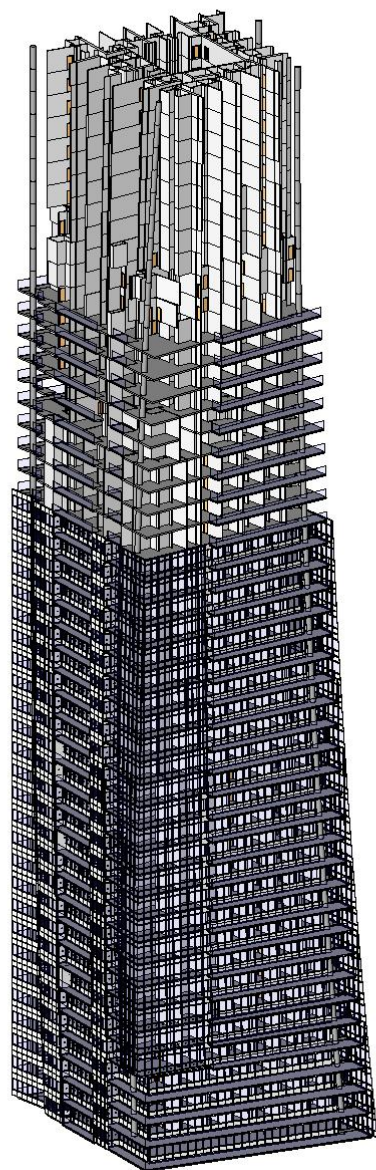




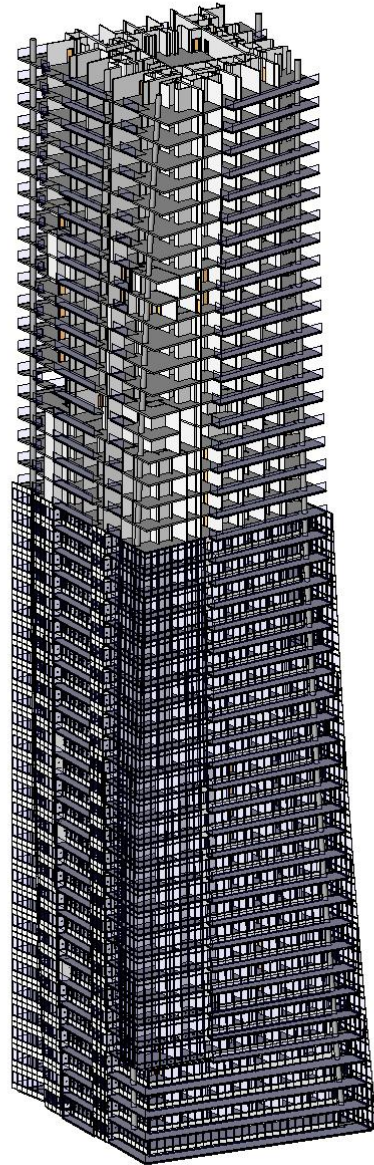


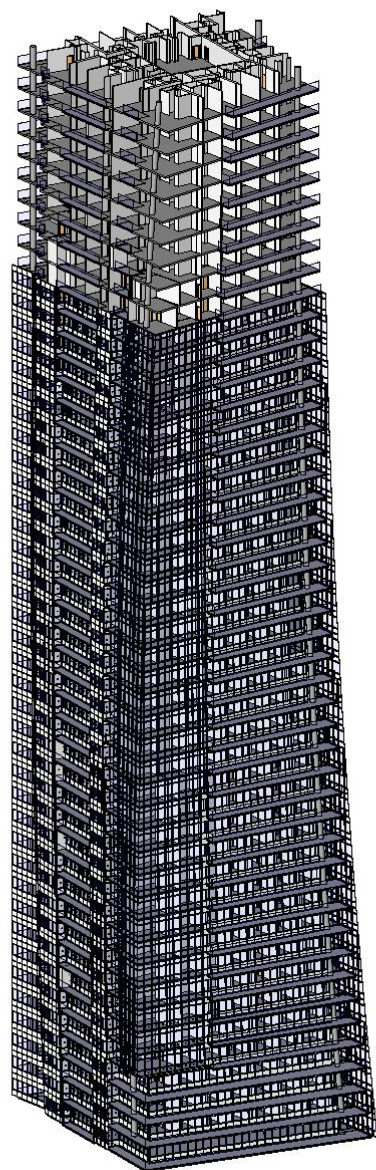




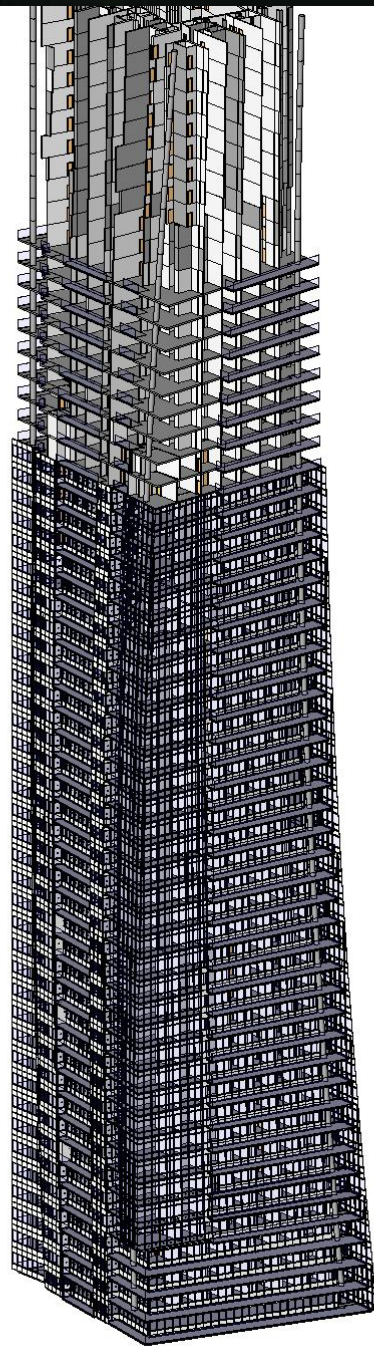


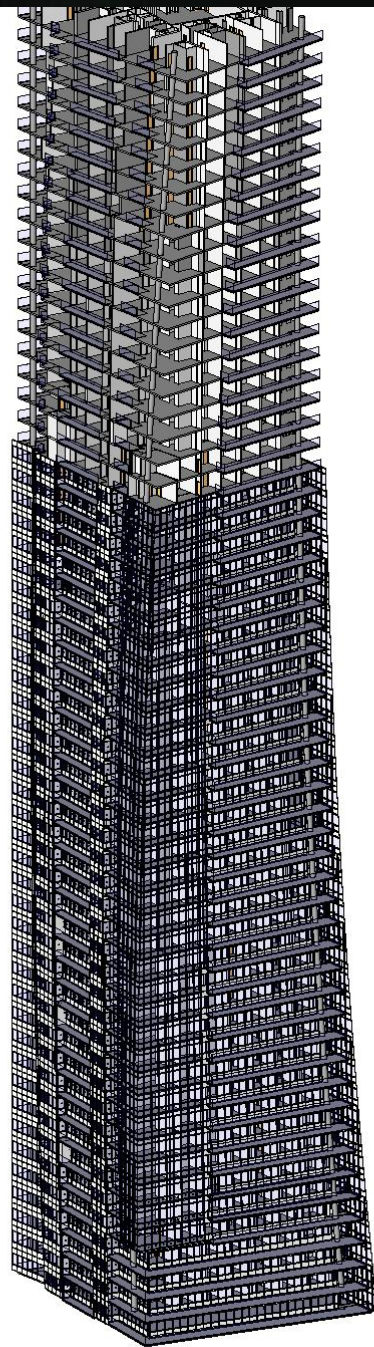




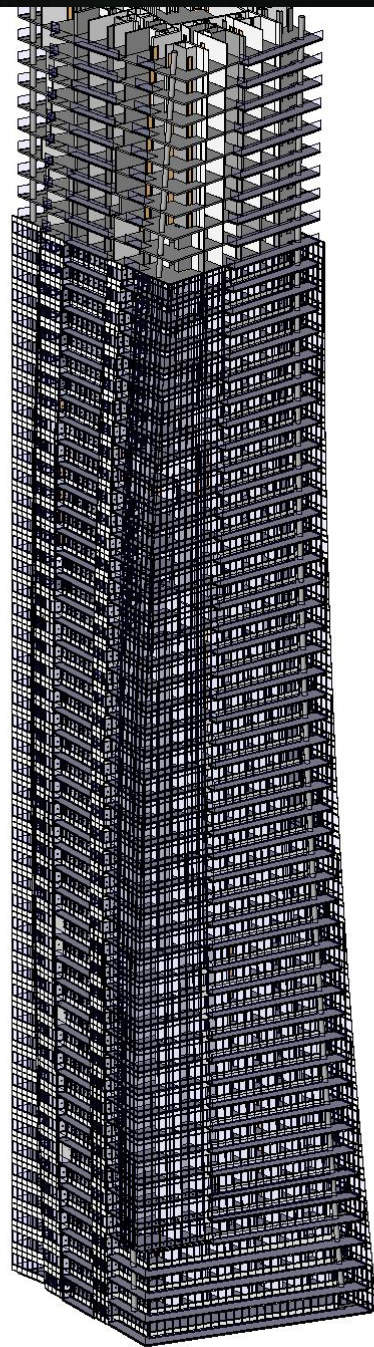






















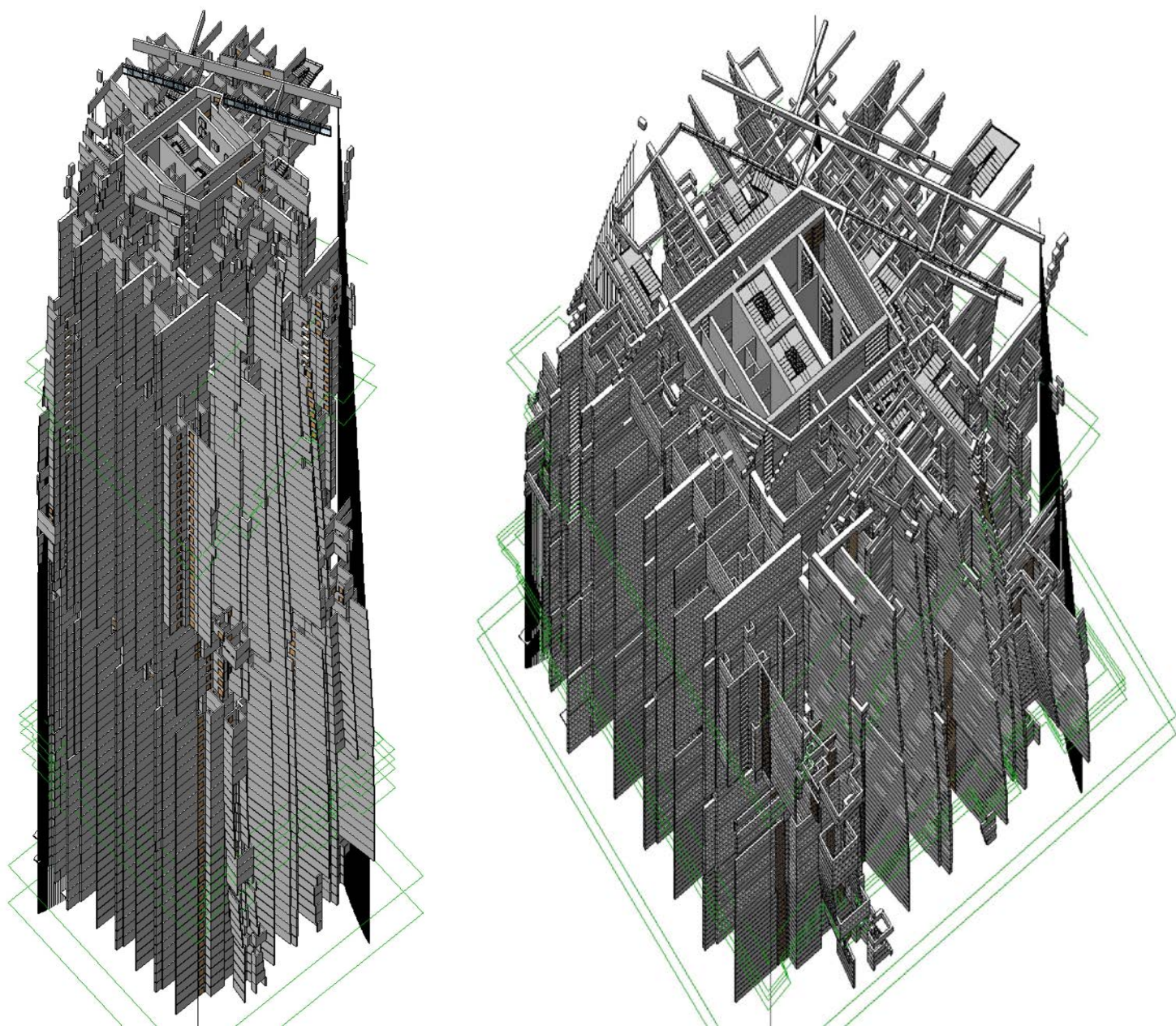






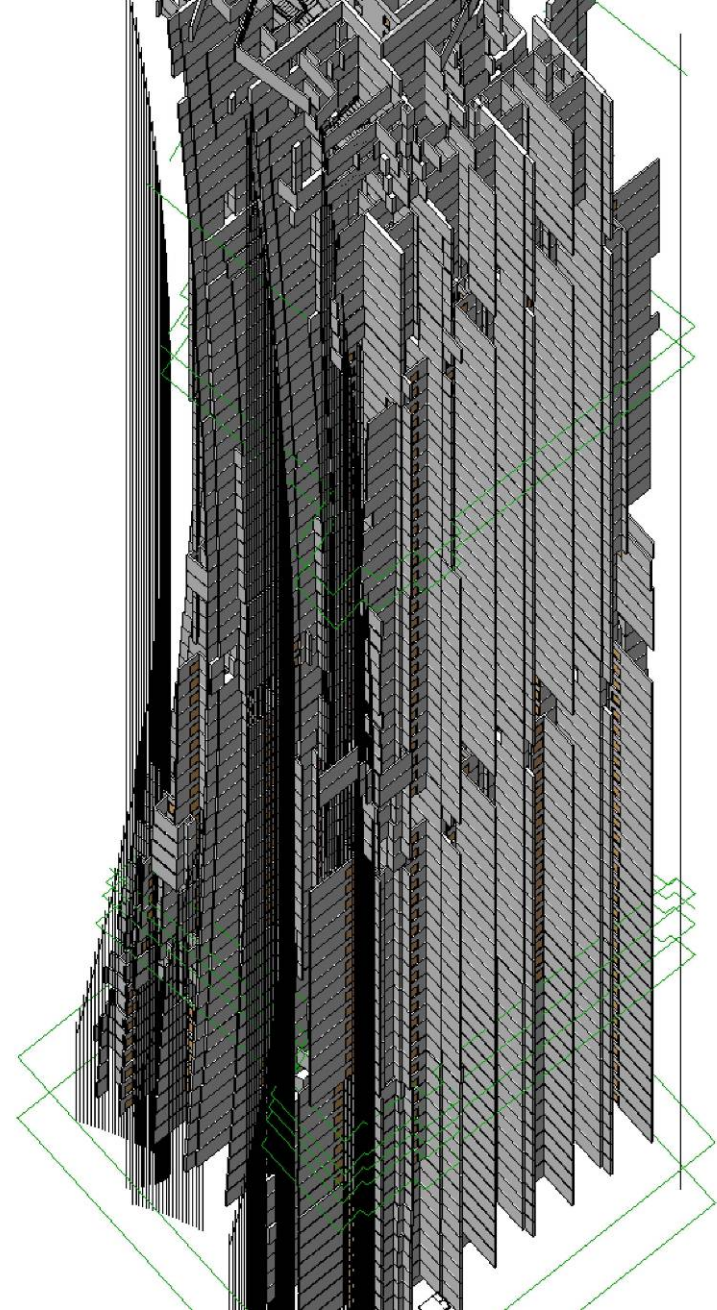
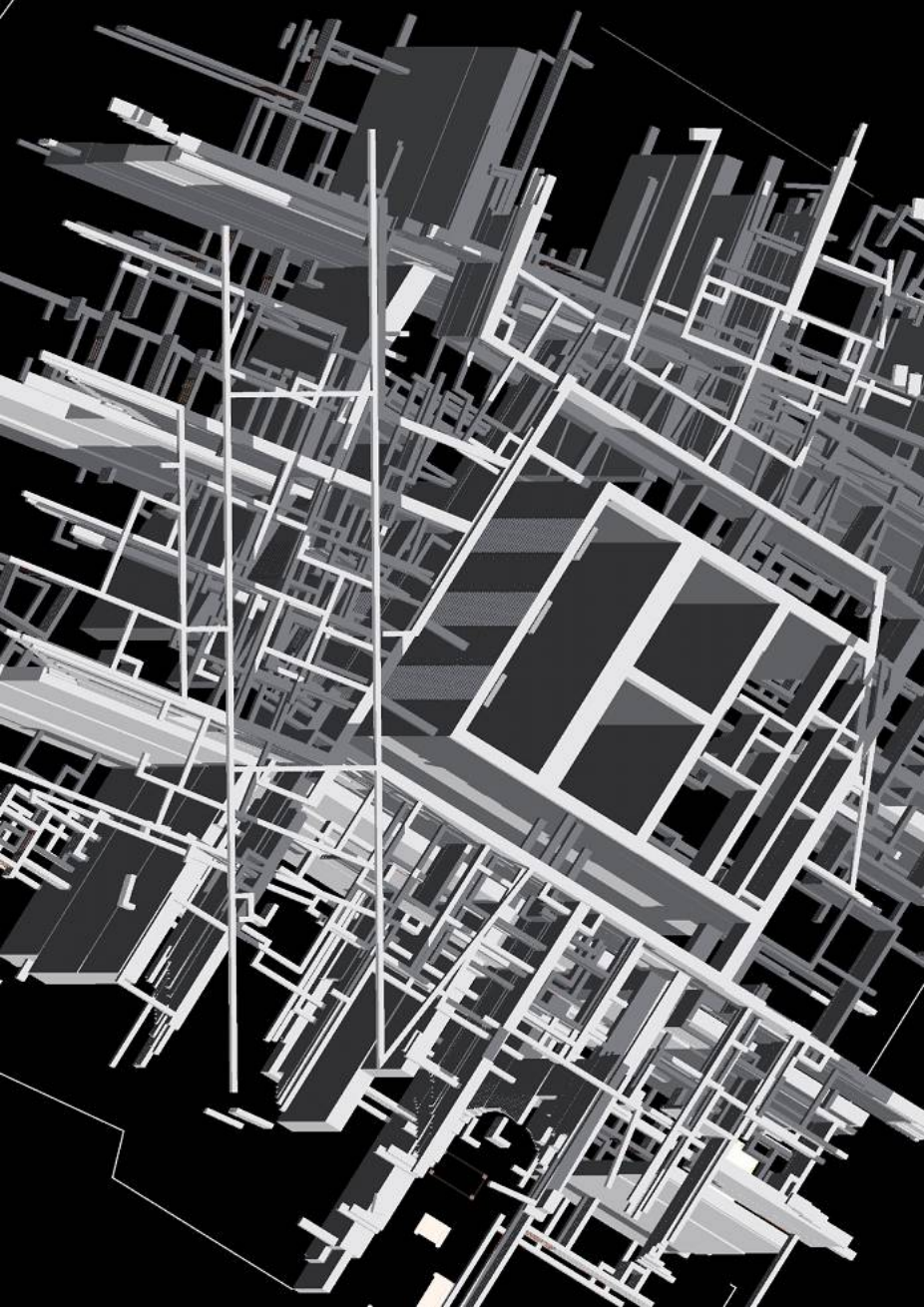






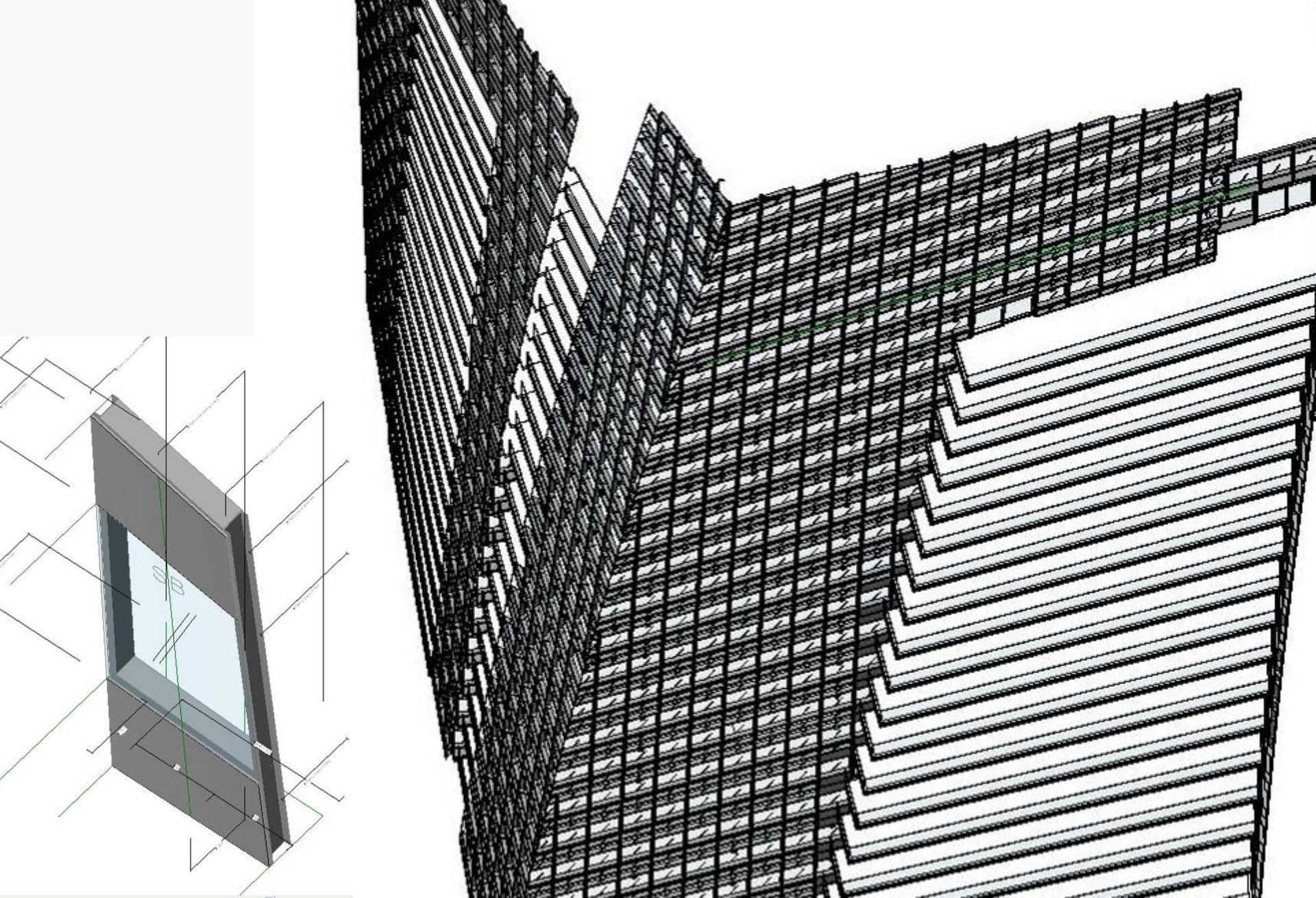
**VERTICAL CO-ORDINATION**





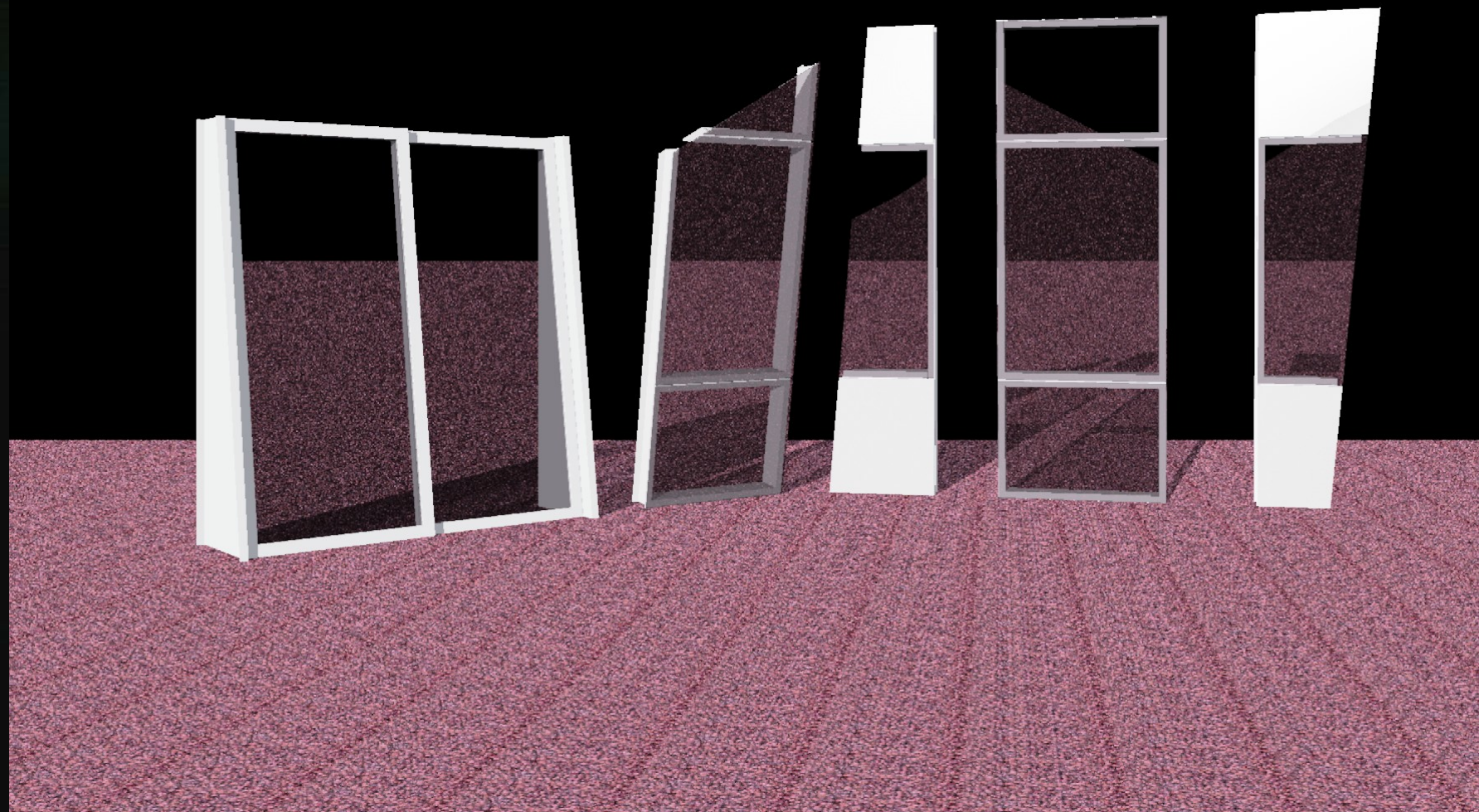
**INTERNAL vs EXTERNAL**





**COMPLICATED CURTAIN WALL**



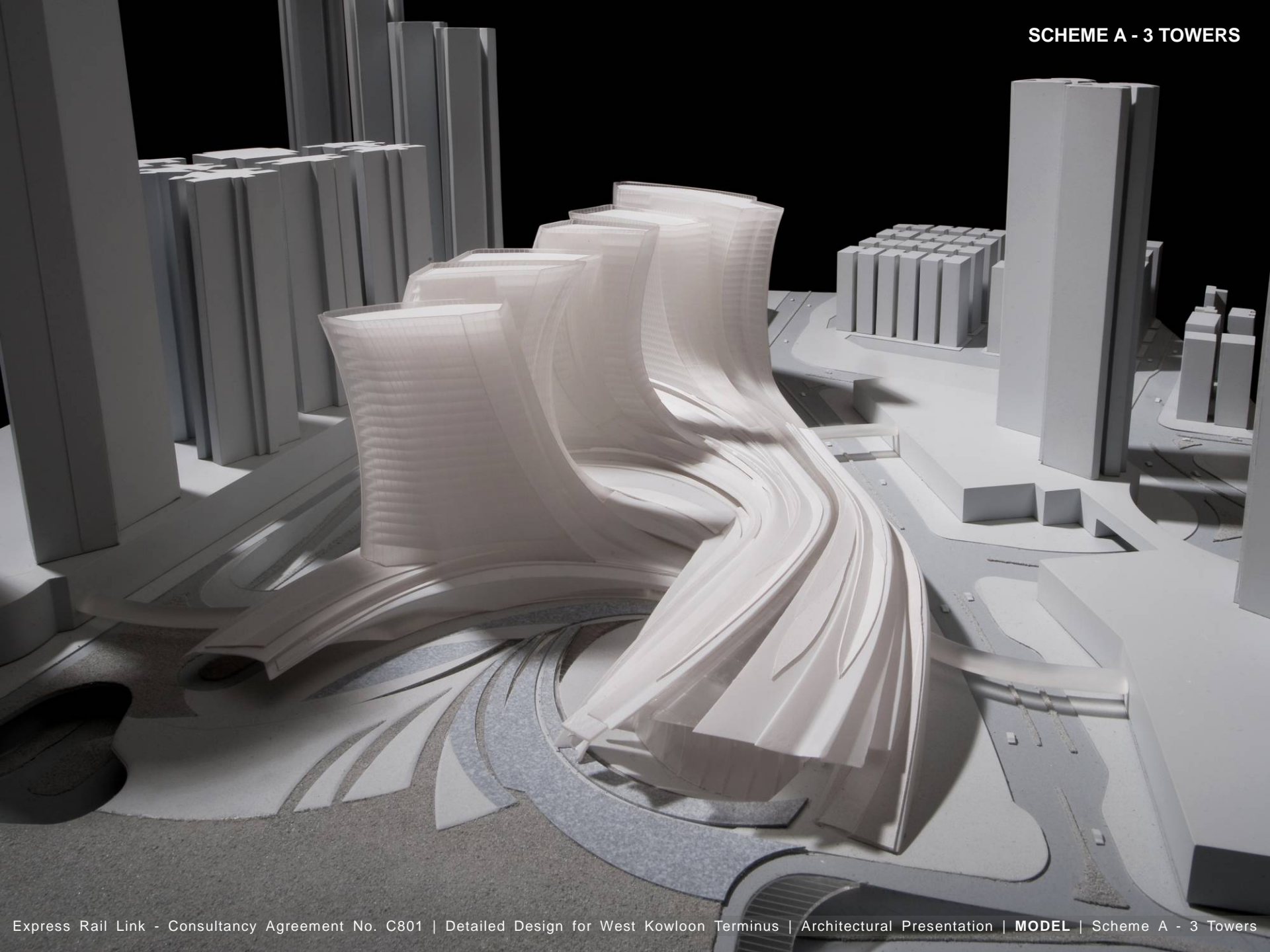






Ref Plane	Level 20	Sliding Door	L71B05D12	Level 71	2550.00		0.00
Dimension	Level 30	Sliding Door	L71B05D15	Level 71	2550.00		0.00
Section	Level 40	Sliding Door	L72B01D02	Level 72	2400.00		0.00
Level	Level 50	Sliding Door	L72B02D02	Level 72	2500.00		0.00
Framing Elevati	Level 60	Sliding Door	L72B04D01	Level 72	1800.00		0.00
Text	Level 65	Sliding Door	L72B05D03	Level 72	2550.00		0.00
	Level 70	Sliding Door	L72B05D05	Level 72	2550.00		0.00
	Level 75	Sliding Door	L72B05D08	Level 72	2550.00		0.00
	3D Views	Sliding Door	L72B05D10	Level 72	2550.00		0.00
	3D View 1	Sliding Door	L72B05D12	Level 72	2550.00		0.00
	3D View 2	Sliding Door	L72B05D15	Level 72	2550.00		0.00
	3D View 3	Sliding Door	L73B01D02	Level 73	2400.00		0.00
	3D View 4	Sliding Door	L73B02D02	Level 73	2500.00		0.00
	3D View 5	Sliding Door	L73B04D01	Level 73	1700.00		0.00
	3D View 6	Sliding Door	L73B05D03	Level 73	2550.00		0.00
	Copy of 3D V	Sliding Door	L73B05D05	Level 73	2550.00		0.00
	View 1 - Ana	Sliding Door	L73B05D08	Level 73	2550.00		0.00
	{3D}	Sliding Door	L73B05D10	Level 73	2550.00		0.00
	Elevations (Build	Sliding Door	L73B05D12	Level 73	2550.00		0.00
	East	Sliding Door	L73B05D15	Level 73	2550.00		0.00
	North	Sliding Door	L74B01D02	Level 74	2400.00		0.00
	South	Sliding Door	L74B02D02	Level 74	2500.00		0.00
	West	Sliding Door	L74B04D01	Level 74	1600.00		0.00
	Sections (Building	Sliding Door	L74B05D03	Level 74	2550.00		0.00
	Section 1	Sliding Door	L74B05D05	Level 74	2550.00		0.00
	Section 2	Sliding Door	L74B05D08	Level 74	2550.00		0.00
	Section 3	Sliding Door	L74B05D10	Level 74	2550.00		0.00
	Legends	Sliding Door	L74B05D12	Level 74	2550.00		0.00
	Schedules/Quan	Sliding Door	L74B05D15	Level 74	2550.00		0.00
	Multi-Category S	Sliding Door	L75B01D02	Level 75	2400.00		0.00
	Multi-Category S	Sliding Door	L75B02D02	Level 75	2500.00		0.00
	Sheets (all)	Sliding Door	L76B01D02	Level 76	2400.00		0.00
	Families	Sliding Door	L76B02D02	Level 76	2500.00		0.00
	Annotation Symb	Sliding Door	L77B01D02	Level 77	2400.00		0.00
	Ceilings	Sliding Door	L77B02D01	Level 77	2426.17		0.00
	Curtain Panels	Sliding Door	L78B01D02	Level 78	2400.00		0.00
	Curtain Systems	Sliding Door	L78B02D01	Level 78	2203.01		0.00
	Curtain Wall Mul	Sliding Door	L79B01D02	Level 79	2400.00		0.00
	Detail Items	Sliding Door	L79B02D01	Level 79	1974.15		0.00
	Doors	Sliding Door: 649					
	Floors	Sliding Door to Replace CW Pan	L10F01N10	Level 10	1255.77		-123.24
	Furniture	Sliding Door to Replace CW Panel: 1					
		Grand total: 9740					







HOLISTIC



**SCHEME A**



DESIGN A "BELOW GROUND STATION"  
TO NOT FEEL "BELOW GROUND"

• IMMEDIATE SENSE OF ARRIVING INTO HONG KONG





# INTEGRATED



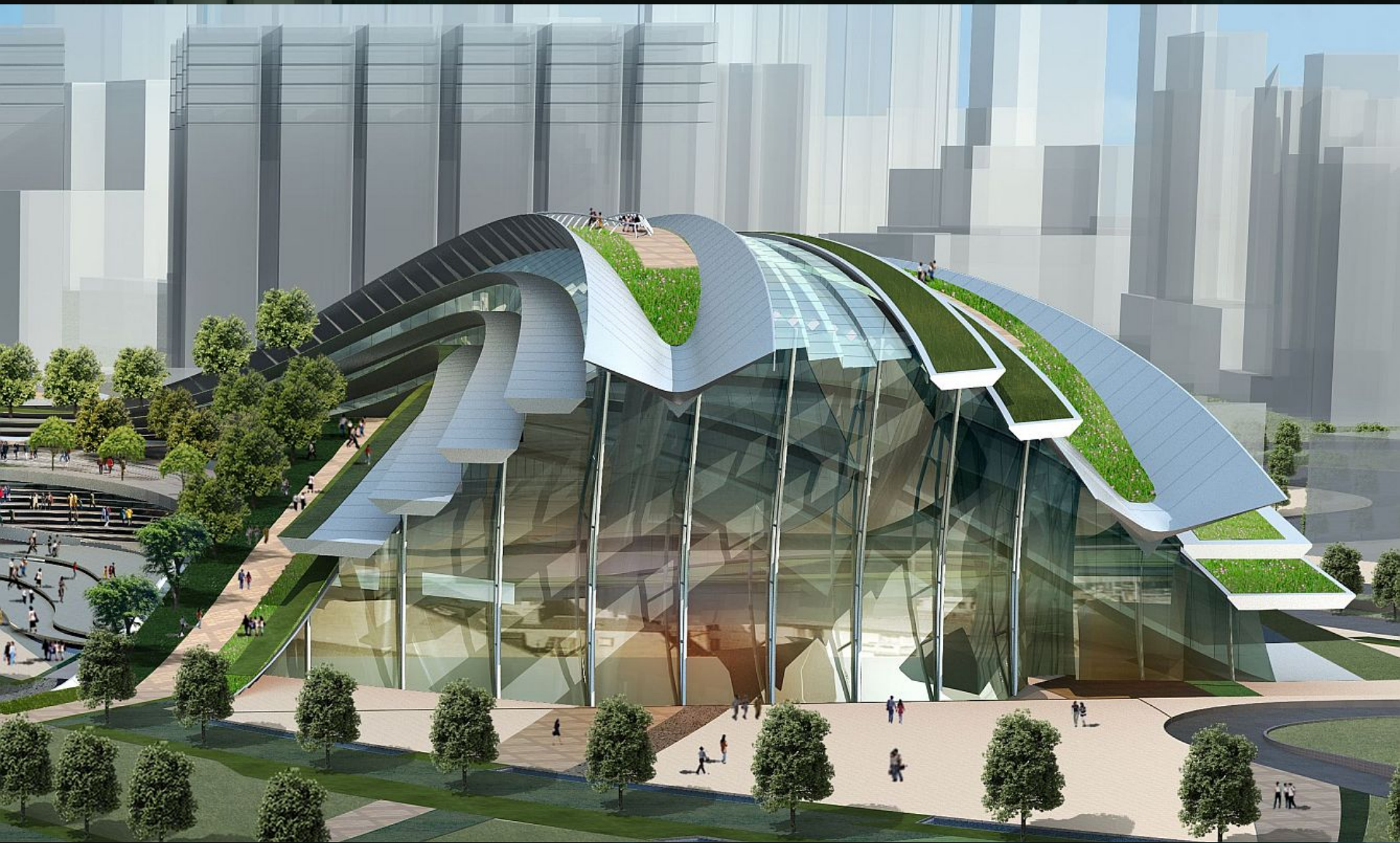


## VIEW TOWARDS CITY

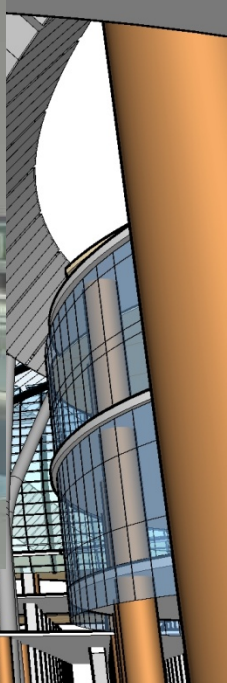
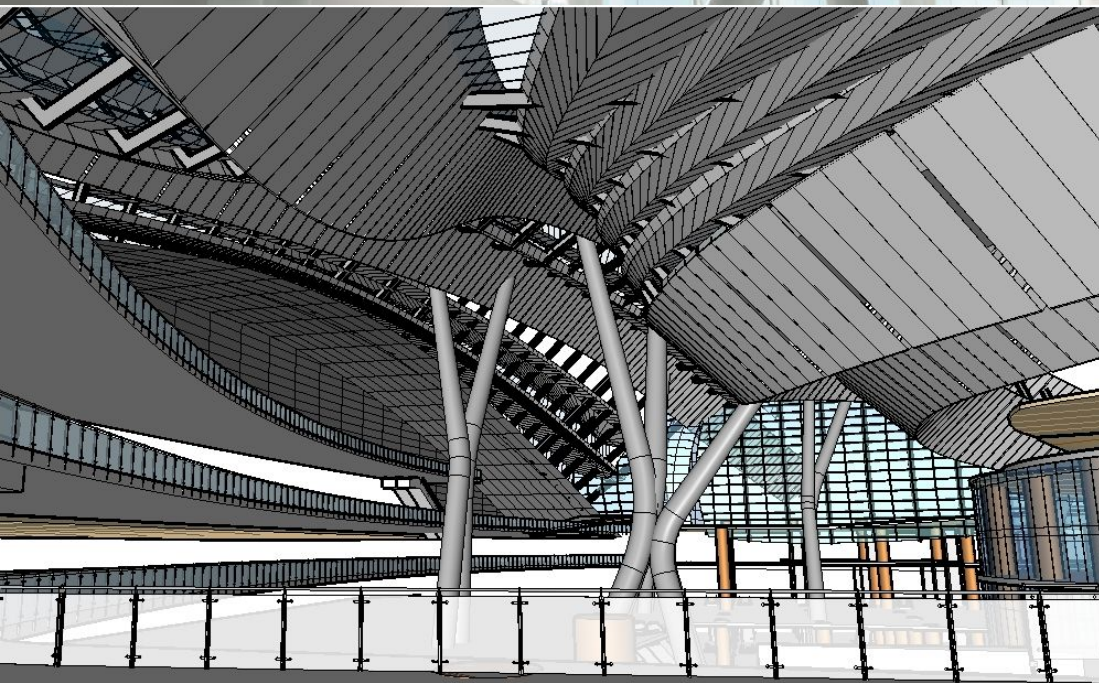
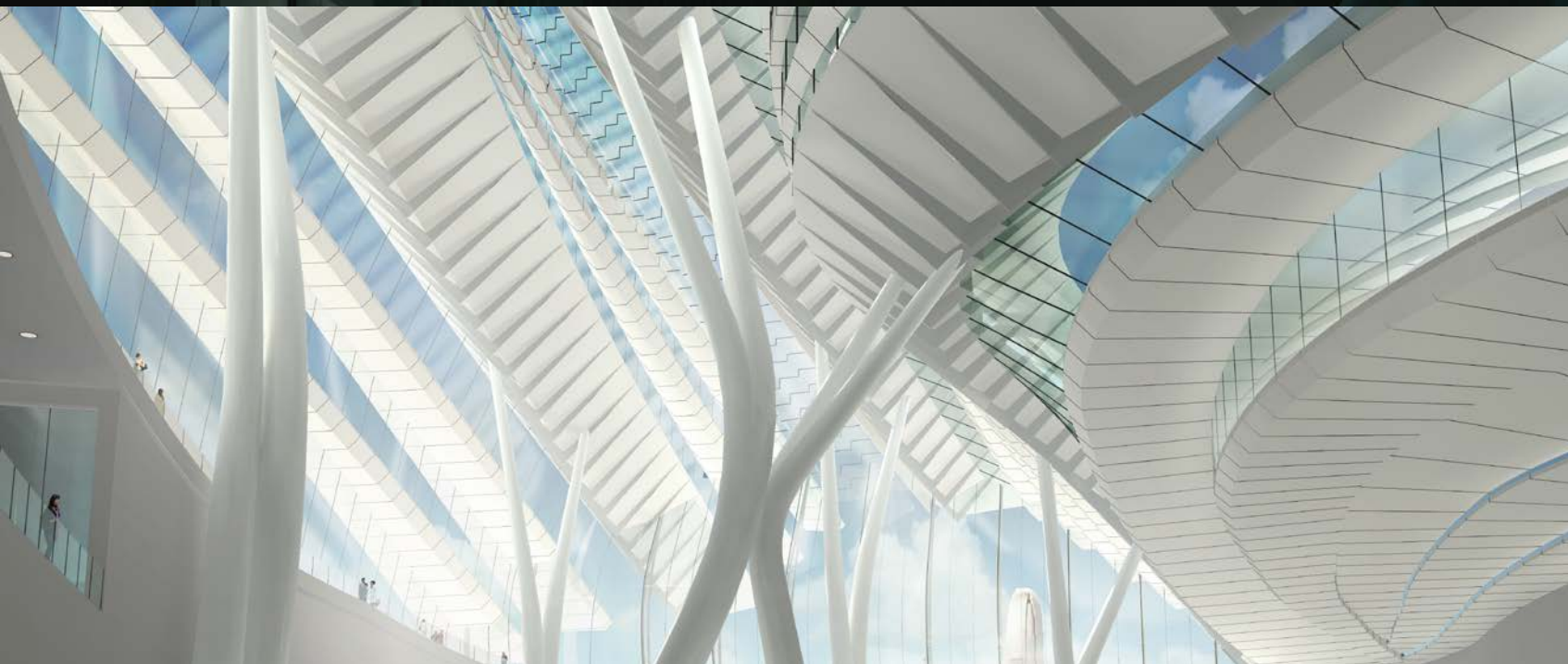
- Sustainable
- Public Interaction















**DESIGN**

RHINO



**PANELIZATION**

GRASSHOPPER



EXPORT

**DATABASE**

EXCEL



IMPORT

**RATIONALIZATION**

REVIT API



**BIM RECREATION**

REVIT



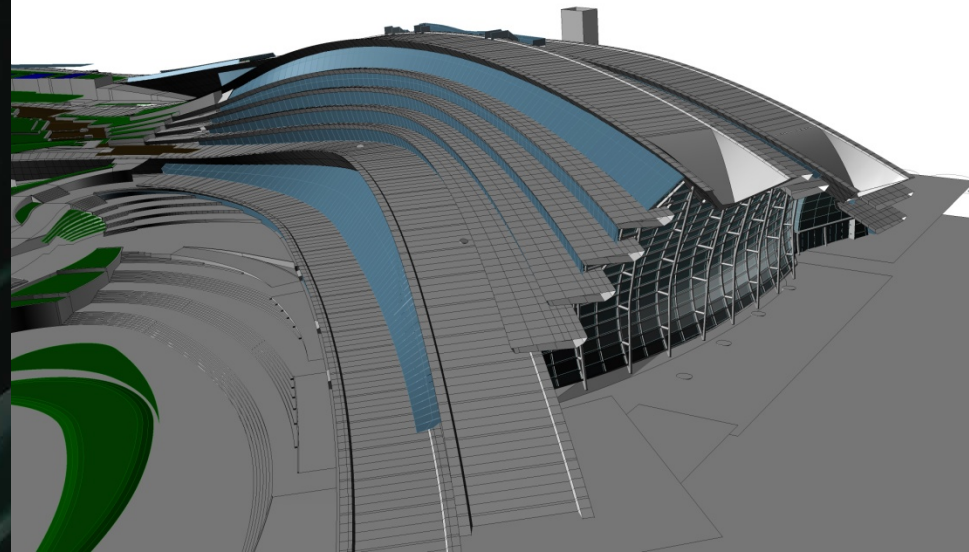
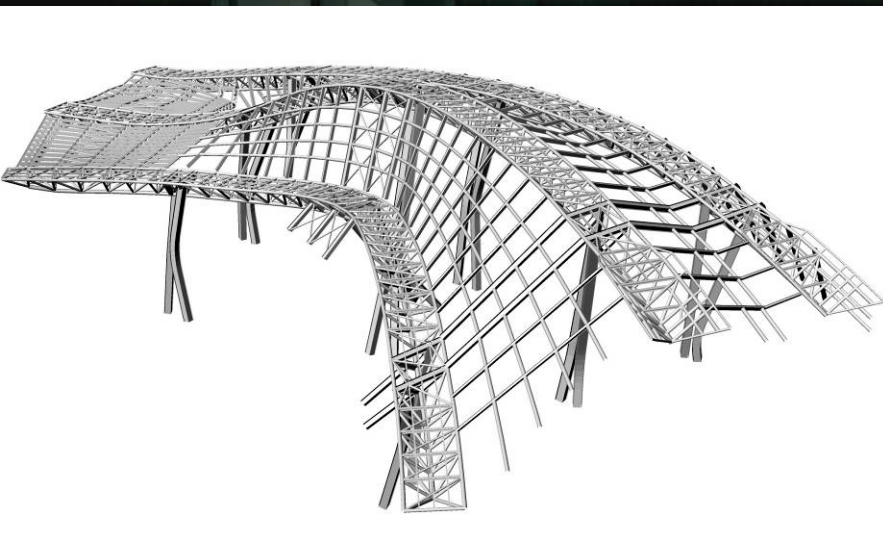
**DOCUMENTATION**

REVIT



TENDER

**MANUF/CONSTRUCTION**

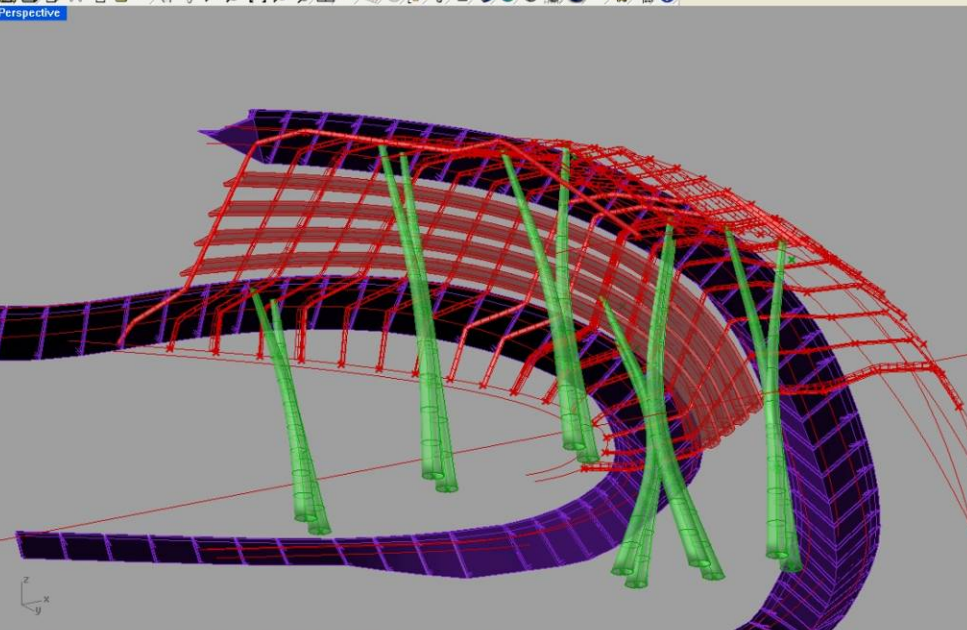


COLUMN HEAD STUDY - Rhinoceros [Commercial] - [Perspective]

File View Curve Surface Solid Mesh Dimension Transform Tools Analyze Render Help  
 Hide  
 Invert  
 Instances, 111 hatches, 452 points, 1924 curves, 117 polysurfaces, 126 surfaces, 36 text added to selection.  
 Hide



Perspective



☒ Near ☒ Point ☒ Mid ☐ Cen ☐ Int ☐ Perp ☐ Tan ☐ Quad ☐ Knot ☐ Project ☐ STrack ☐ Disable

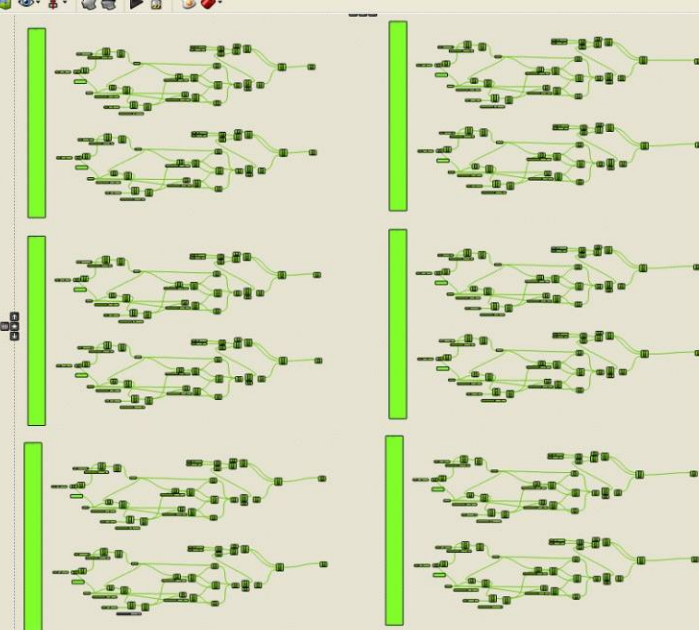
356.991 y 191.236 z 0.000 0.000 Layer 12 Snap Ortho Planar Osnap Record History

Grasshopper - column head with secondary structure until eastern arch

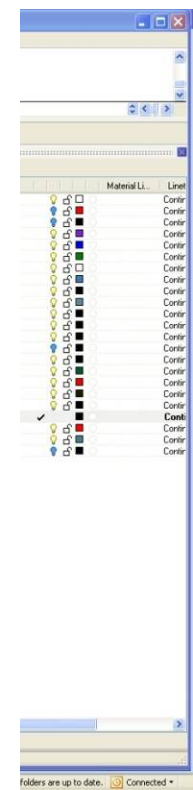
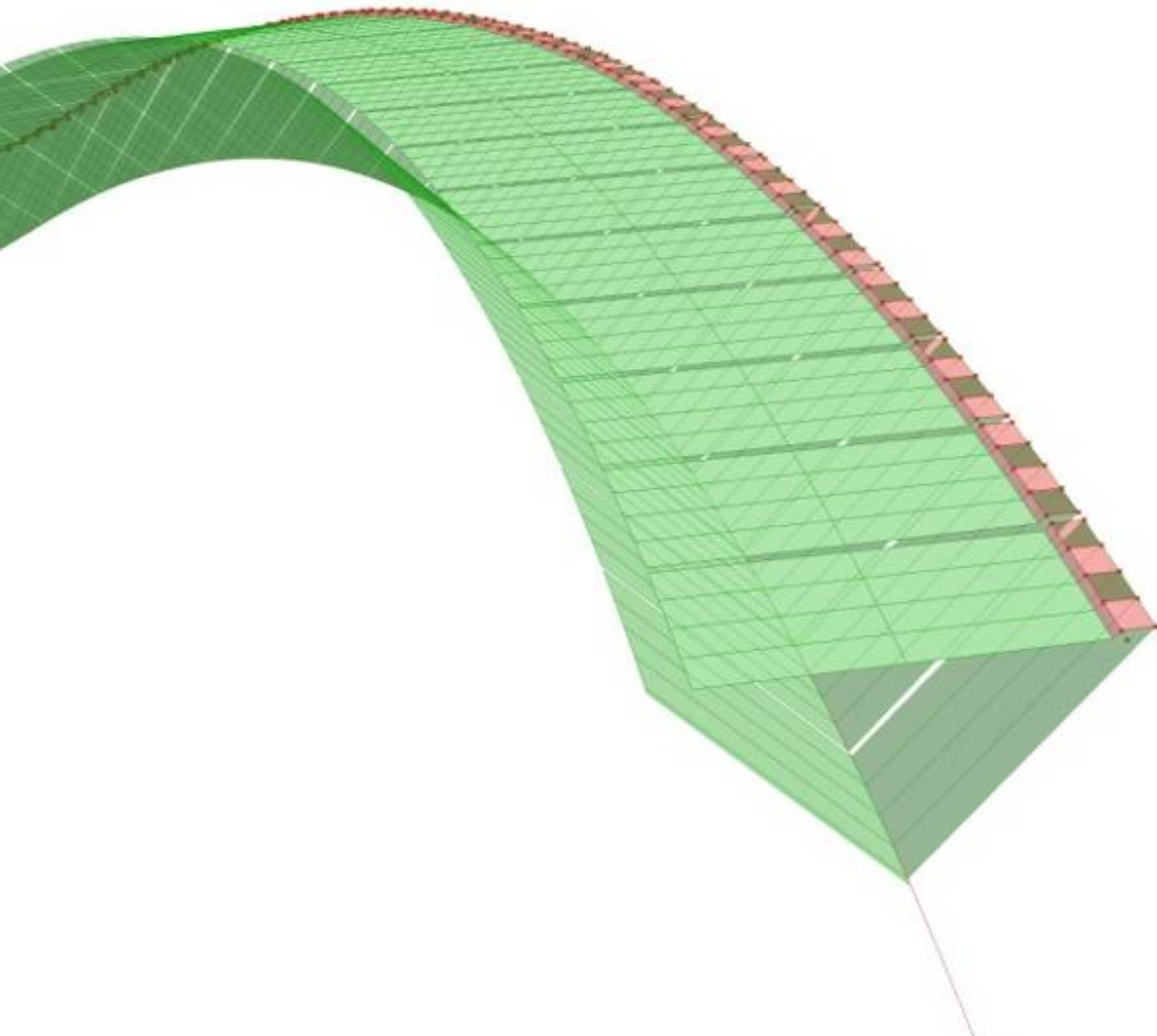
File Edit View Arrange Solution Window Help

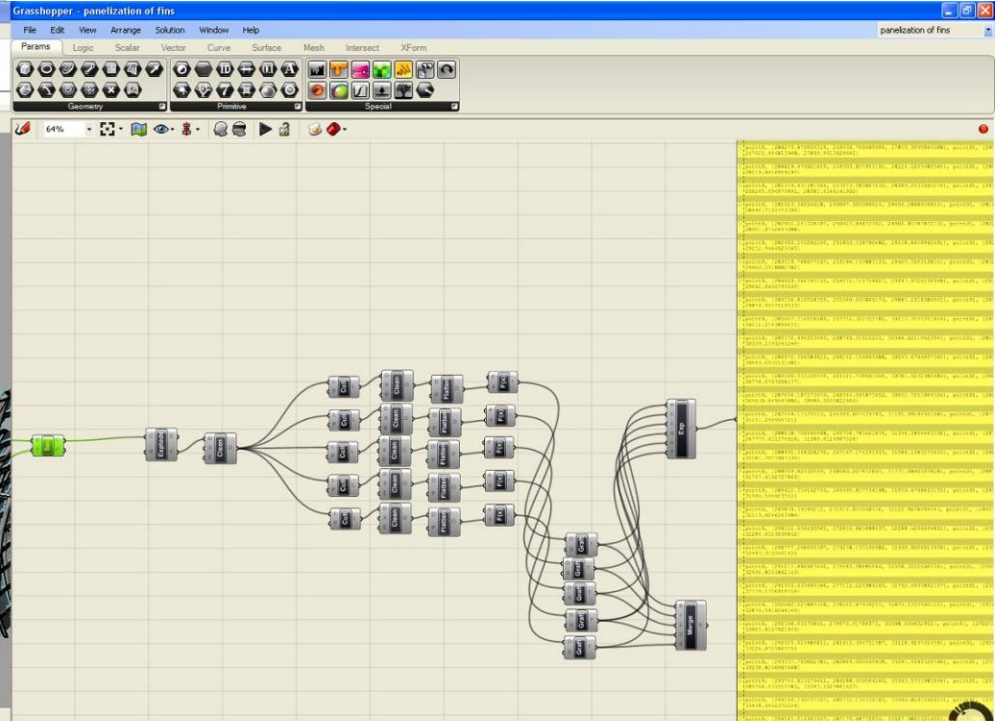
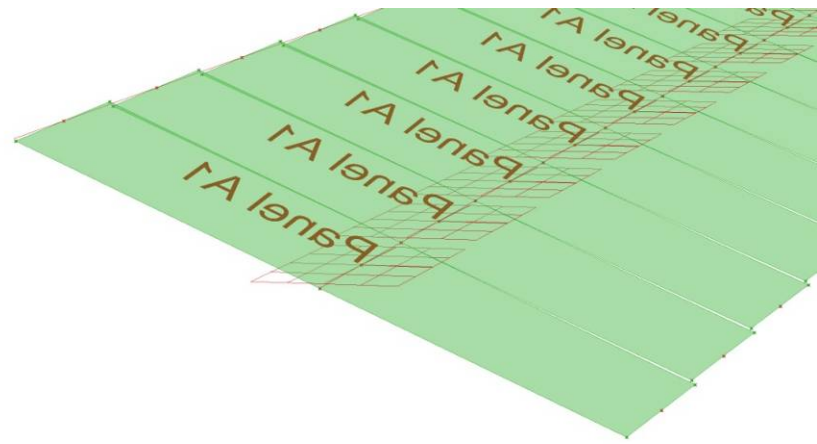
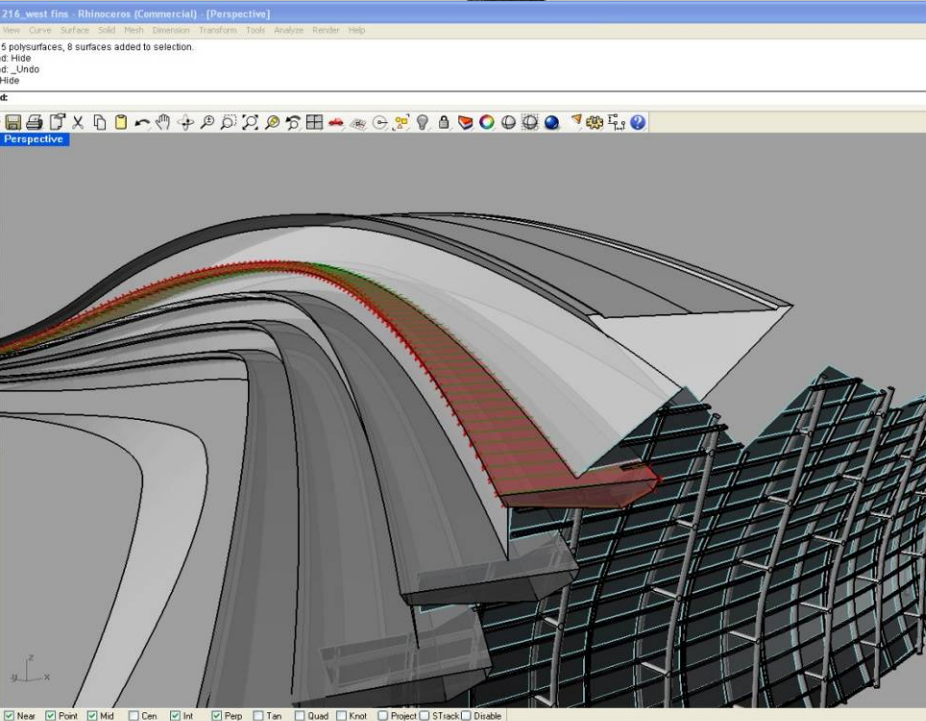
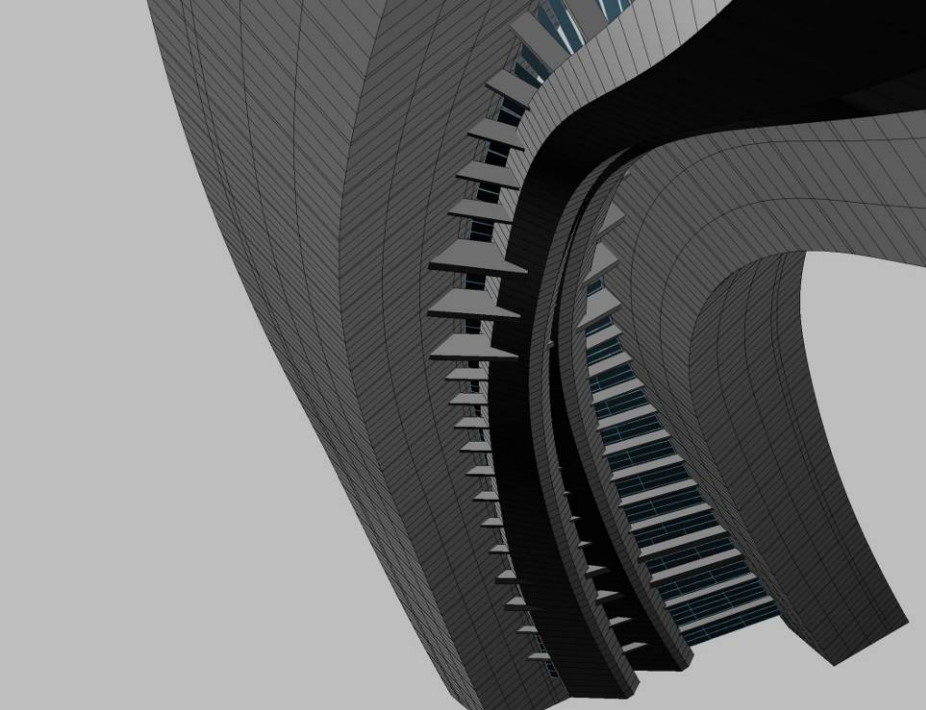


13%

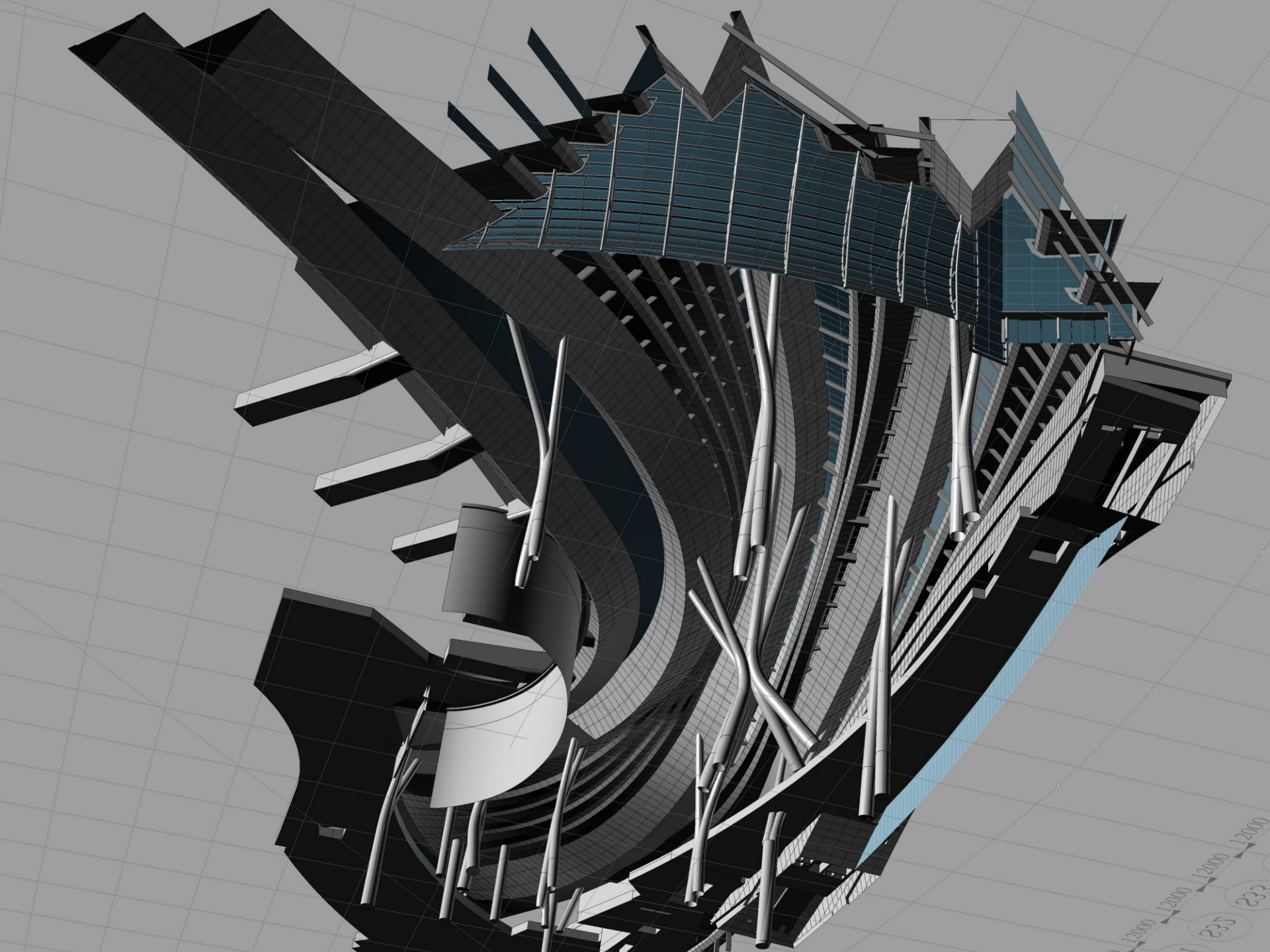




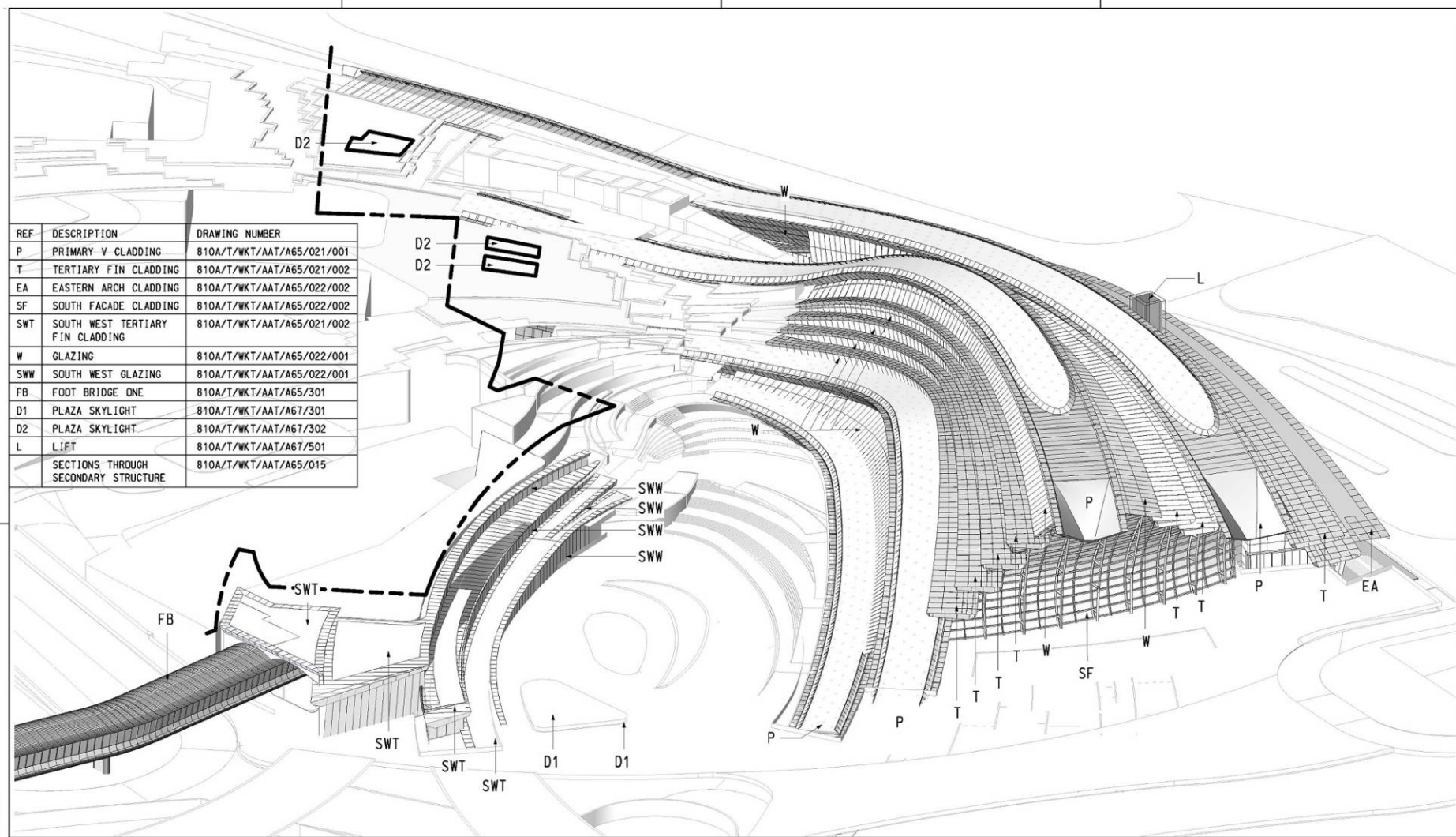








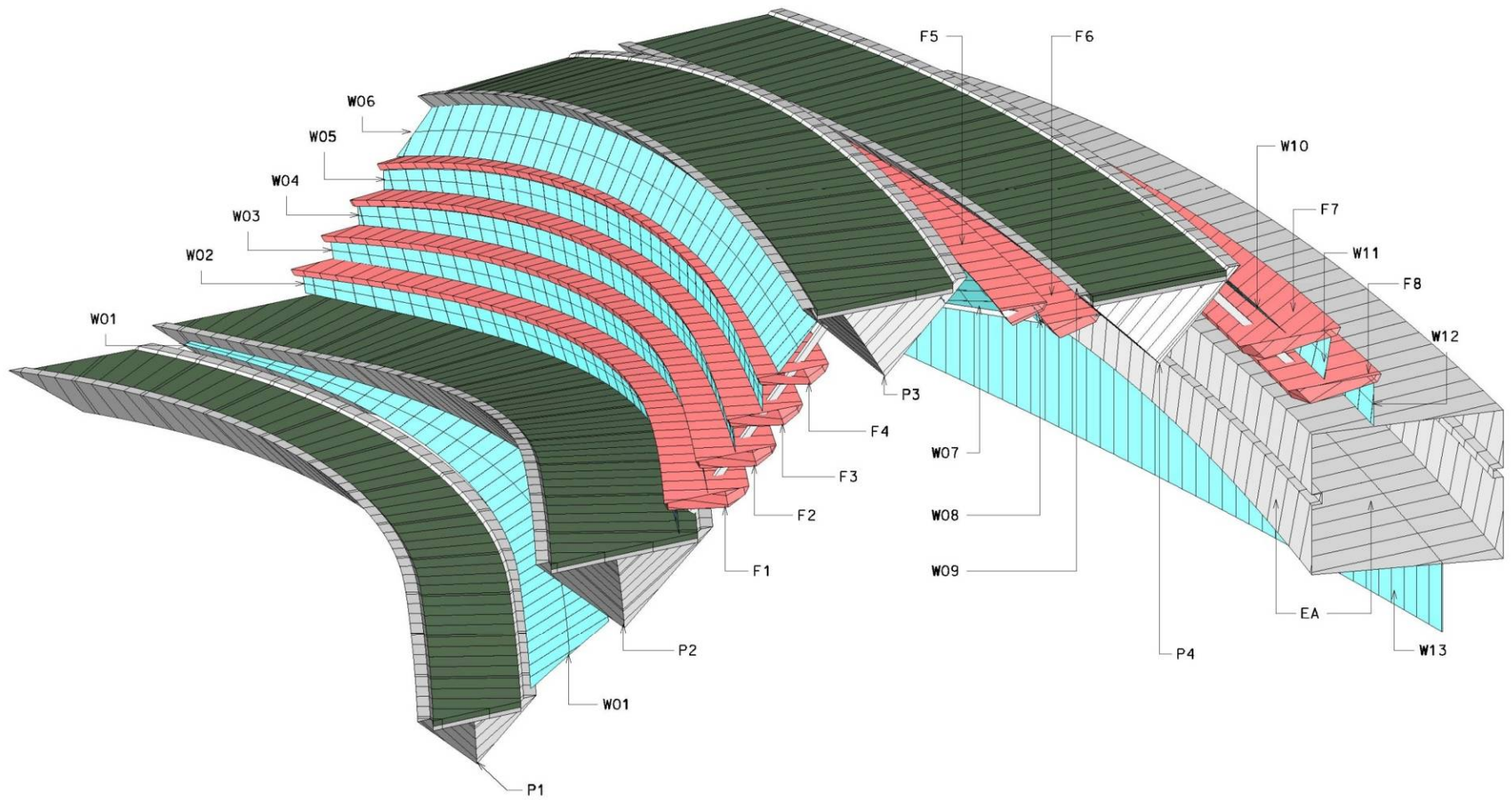
06/22/2010 14:47:03 PM  
PLOT DATE  
06/22/2010 14:47:03 PM  
PLOT DATE

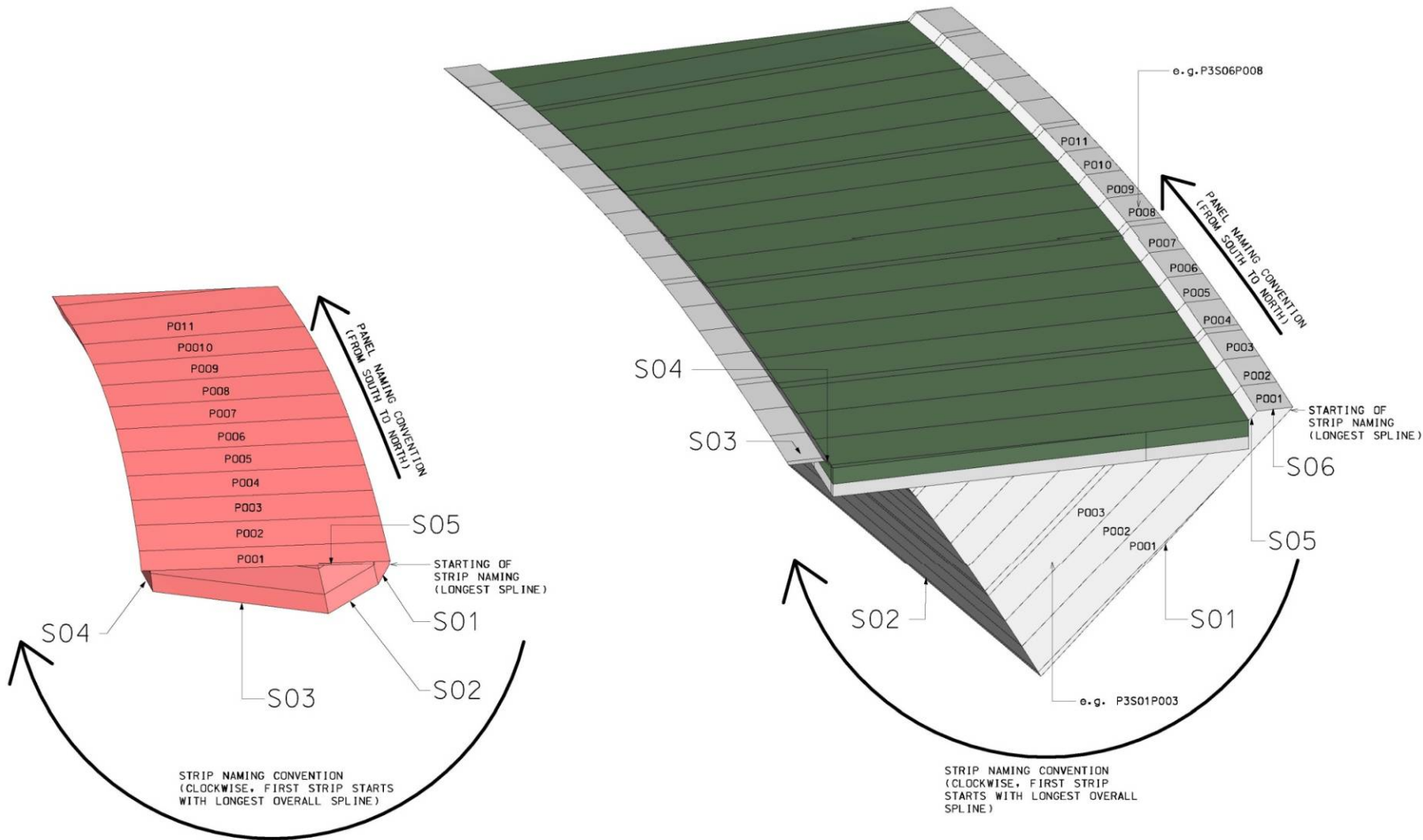


REF	DESCRIPTION	DRAWING NUMBER
P	PRIMARY V CLADDING	810A/T/WKT/AAT/A65/021/001
T	TERTIARY FIN CLADDING	810A/T/WKT/AAT/A65/021/002
EA	EASTERN ARCH CLADDING	810A/T/WKT/AAT/A65/022/002
SF	SOUTH FACADE CLADDING	810A/T/WKT/AAT/A65/022/002
SWT	SOUTH WEST TERTIARY FIN CLADDING	810A/T/WKT/AAT/A65/021/002
W	GLAZING	810A/T/WKT/AAT/A65/022/001
SWW	SOUTH WEST GLAZING	810A/T/WKT/AAT/A65/022/001
FB	FOOT BRIDGE ONE	810A/T/WKT/AAT/A65/301
D1	PLAZA SKYLIGHT	810A/T/WKT/AAT/A67/301
D2	PLAZA SKYLIGHT	810A/T/WKT/AAT/A67/302
L	LIFT	810A/T/WKT/AAT/A67/501
	SECTIONS THROUGH SECONDARY STRUCTURE	810A/T/WKT/AAT/A65/015

01 3D SOUTH





Nomenclature - Fin Cladding

② e.g. F1

NAMING CONVENTION:  
ELEMENT / STRIP(S) / PANEL(P)  
E.G. F1 / SXX / PXXX  
F1S03P078

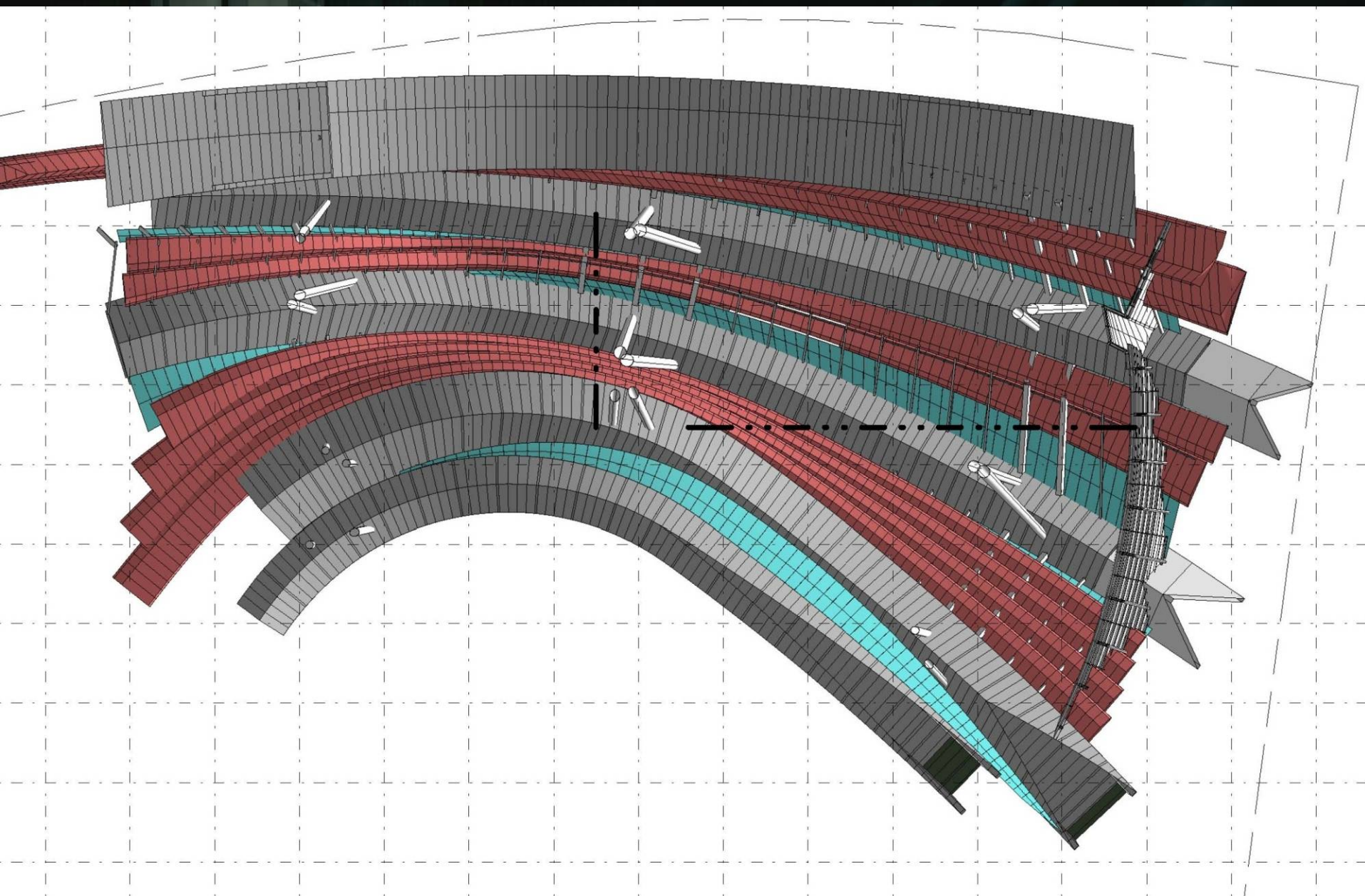
Nomenclature - V Cladding

① e.g. P3

NAMING CONVENTION:  
ELEMENT / STRIP(S) / PANEL(P)  
E.G. P3 / SXX / PXXX  
P3S17P123









1		P01x###	lengt	P01y###	lengt	P01z###	lengt	P02x###	lengt	P02y###	lengt	P02z###	lengt	P03x###	lengt	P03y###	lengt	P03z###	lengt	P04x###	lengt	P04y###	lengt	P04z###	lengt	Panel Type	##not
2	P3S06P001	149572.632		43124.1138		30997.4089		150034.096		44497.0923		31201.1007		151479.165		44220.6936		29756.4955		151017.994		42846.0425		29553.4116		P3S06P001	
3	P3S06P002	150034.096		44497.0923		31201.1007		150490.205		45872.5015		31400.2904		151935		45597.7674		29955.086		151479.165		44220.6936		29756.4955		P3S06P002	
4	P3S06P003	150490.205		45872.5015		31400.2904		150940.93		47250.3052		31594.9821		152385.473		46977.2334		30149.1841		151935		45597.7674		29955.086		P3S06P003	
5	P3S06P004	150940.93		47250.3052		31594.9821		151386.267		48630.4698		31785.1616		152830.57		48359.0618		30338.7828		152385.473		46977.2334		30149.1841		P3S06P004	
6	P3S06P005	151386.267		48630.4698		31785.1616		151474.689		48906.7825		31822.6539		152918.944		48635.7079		30376.1616		152830.57		48359.0618		30338.7828		P3S06P005	
7	P3S06P006	151474.689		48906.7825		31822.6539		151913.575		50289.7323		32007.3872		153357.585		50020.3276		30560.3477		152918.944		48635.7079		30376.1616		P3S06P006	
8	P3S06P007	151913.575		50289.7323		32007.3872		152347.08		51674.9657		32187.576		153790.836		51407.2369		30740.0246		153357.585		50020.3276		30560.3477		P3S06P007	
9	P3S06P008	152347.08		51674.9657		32187.576		152775.147		53062.4739		32363.2813		154218.667		52796.4316		30915.2314		153790.836		51407.2369		30740.0246		P3S06P008	
10	P3S06P009	152775.147		53062.4739		32363.2813		153197.744		54452.3272		32534.6167		154641.09		54188.0429		31086.0665		154218.667		52796.4316		30915.2314		P3S06P009	
11	P3S06P010	153197.744		54452.3272		32534.6167		153281.603		54730.5766		32568.3694		154724.924		54466.654		31119.7184		154641.09		54188.0429		31086.0665		P3S06P010	
12	P3S06P011	153281.603		54730.5766		32568.3694		153697.624		56123.188		32734.5715		155140.841		55861.1282		31285.4274		154724.924		54466.654		31119.7184		P3S06P011	
13	P3S06P012	153697.624		56123.188		32734.5715		154108.128		57517.7498		32896.4211		155551.199		57257.4509		31446.8027		155140.841		55861.1282		31285.4274		P3S06P012	
14	P3S06P013	154108.128		57517.7498		32896.4211		154513.02		58914.0007		33053.6684		155955.863		58655.1793		31603.5689		155551.199		57257.4509		31446.8027		P3S06P013	
15	P3S06P014	154513.02		58914.0007		33053.6684		154912.275		60311.9726		33206.0604		156354.833		60054.3601		31755.4605		155955.863		58655.1793		31603.5689		P3S06P014	
16	P3S06P015	154912.275		60311.9726		33206.0604		154991.455		60591.8003		33235.9403		156433.956		60334.4167		31785.2395		156354.833		60054.3601		31755.4605		P3S06P015	
17	P3S06P016	154991.455		60591.8003		33235.9403		155384.039		61992.164		33382.3144		156826.258		61735.9125		31931.1206		156433.956		60334.4167		31785.2395		P3S06P016	
18	P3S06P017	155384.039		61992.164		33382.3144		155771.104		63394.5402		33523.6095		157213.036		63139.4019		32071.9532		156826.258		61735.9125		31931.1206		P3S06P017	
19	P3S06P018	155771.104		63394.5402		33523.6095		156152.641		64799.0536		33659.8994		157594.329		64545.1147		32207.8035		157213.036		63139.4019		32071.9532		P3S06P018	
20	P3S06P019	156152.641		64799.0536		33659.8994		156528.665		66205.8406		33791.3989		157970.193		65953.318		32338.8909		157594.329		64545.1147		32207.8035		P3S06P019	
21	P3S06P020	156528.665		66205.8406		33791.3989		156603.207		66487.4657		33817.1437		158044.711		66235.2527		32364.5566		157970.193		65953.318		32338.8909		P3S06P020	
22	P3S06P021	156603.207		66487.4657		33817.1437		156972.591		67896.8372		33943.1573		158414.002		67646.2548		32490.1972		158044.711		66235.2527		32364.5566		P3S06P021	
23	P3S06P022	156972.591		67896.8372		33943.1573		157336.329		69307.9002		34064.607		158777.619		69058.83		32611.2857		158414.002		67646.2548		32490.1972		P3S06P022	
24	P3S06P023	157336.329		69307.9002		34064.607		157694.338		70720.5482		34181.3772		159135.5		70472.822		32727.6793		158777.619		69058.83		32611.2857		P3S06P023	
25	P3S06P024	157694.338		70720.5482		34181.3772		158046.558		72134.4265		34293.1711		159487.514		71887.6646		32839.0806		159135.5		70472.822		32727.6793		P3S06P024	
26	P3S06P025	158046.558		72134.4265		34293.1711		158116.297		72417.2914		34314.8748		159557.191		72170.6364		32860.703		159487.514		71887.6646		32839.0806		P3S06P025	
27	P3S06P026	158116.297		72417.2914		34314.8748		158461.474		73832.0687		34419.7934		159901.955		73585.5129		32965.2043		159557.191		72170.6364		32860.703		P3S06P026	
28	P3S06P027	158461.474		73832.0687		34419.7934		158800.798		75247.6674		34518.1928		160240.723		75000.5299		33063.172		159901.955		73585.5129		32965.2043		P3S06P027	
29	P3S06P028	158800.798		75247.6674		34518.1928		159134.34		76664.522		34609.6099		160573.676		76416.4942		33154.1589		160240.723		75000.5299		33063.172		P3S06P028	
30	P3S06P029	159134.34		76664.522		34609.6099		159462.105		78082.6818		34693.7628		160900.837		77833.534		33237.8995		160573.676		76416.4942		33154.1589		P3S06P029	
31	P3S06P030	159462.105		78082.6818		34693.7628		159526.964		78366.4655		34709.6976		160965.574		78117.0662		33253.7554		160900.837		77833.534		33237.8995		P3S06P030	
32	P3S06P031	159526.964		78366.4655		34709.6976		159847.917		79786.6698		34784.8936		161285.941		79536.0393		33328.5833		160965.574		78117.0662		33253.7554		P3S06P031	
33	P3S06P032	159847.917		79786.6698		34784.8936		160163.369		81209.1412		34852.7734		161600.864		80957.3769		33396.1369		161285.941		79536.0393		33328.5833		P3S06P032	
34	P3S06P033	160163.369		81209.1412		34852.7734		160473.329		82633.6703		34913.5237		161910.348		82380.8678		33456.5958		161600.864		80957.3769		33396.1369		P3S06P033	
35	P3S06P034	160473.329		82633.6703		34913.5237		160777.356		84058.5399		34967.1102		162213.944		83804.7494		33509.9212		161910.348		82380.8678		33456.5958		P3S06P034	
36	P3S06P035	160777.356		84058.5399		34967.1102		160837.419		84343.4967		34976.9482		162273.925		84089.5132		33519.7114		162213.944		83804.7494		33509.9212		P3S06P035	
37	P3S06P036	160837.419		84343.4967		34976.9482		161133.92		85768.179		35021.638		162570.037		85513.2534		33564.1916		162273.925		84089.5132		33519.7114		P3S06P036	
38	P3S06P037	161133.92		85768.179		35021.638		161424.472		87194.961		35058.7408		162860.157		86938.7178		33601.1181		162570.037		85513.2534		33564.1916		P3S06P037	
39	P3S06P038	161424.472		87194.961		35058.7408		161710.115		88626.5835		35088.1259		163145.242		88368.1089		33630.3397		162860.157		86938.7178		33601.1181		P3S06P038	
40	P3S06P039	161710.115		88626.5835		35088.1259		161991.372		90062.1491		35109.5513		163425.853		89800.6144		33651.6209		163145.242		88368.1089		33630.3397		P3S06P039	
41	P3S06P040	161991.372		90062.1491		35109.5513		162046.965		90348.8387		35112.8371		163481.328		90086.742		33654.8892		163425.853		89800.6144		33651.6209		P3S06P040	
42	P3S06P041	162046.965		90348.8387		35112.8371		162320.456		91777.2531		35124.1735		163754.377		91513.2313		33666.1912		163481.328		90086.742		33654.8892		P3S06P041	
43	P3S06P042	162320.456		91777.2531		35124.1735		162582.475		93187.6147		35126.9896		164016.659		92925.0915		33668.9867		163754.377		91513.2313		33666.1912		P3S06P042	



```

    {
        case 'x':
            p[index].x = System.Convert.ToDouble(para.AsValueString());
            break;
        case 'y':
            p[index].y = System.Convert.ToDouble(para.AsValueString());
            break;
        case 'z':
            p[index].z = System.Convert.ToDouble(para.AsValueString());
            break;
        default:
            MessageBox.Show("Wrong format of parameter name");
            break;
    }
}

}

CladdingPanel c1 = new CladdingPanel(p, PanelCounter); // new panel created from list of points.
double Area_m2 = c1.PanelArea / 1000000; // division by 1000000 to get area in m2 from mm2

//current family type parameter is updated with value of Area_m2 ;
document.BeginTransaction();
if( symbol.ParametersMap["Area"].Set(Area_m2) == false )
{
    MessageBox.Show("Wrong parameter type");
}
document.EndTransaction();

ArrayOfPanels.Add(c1); // new panel inserted into the array of panels

output += c1.UniqueNumber + " " + Area_m2 + " " + c1.T_edge[0] + " " + c1.T_edge[1] + " " + c1.T_edge[2] + " " + c1.T_edge[3]

// creating panel objects in space
document.BeginTransaction();
FamilyInstance instance = document.Create.NewFamilyInstance(location, symbol, StructuralType.NonStructural);
document.EndTransaction();
}

//MessageBox.Show(output);

```

```

public bool CompareEdgesWith(EdgeGroup otherPanel, double tolerance)
{
    if
    (
        Math.Abs(nextPanel.G_edge[0] - G_edge[0]) <= tolerance
        &&
        Math.Abs(nextPanel.G_edge[1] - G_edge[1]) <= tolerance
        &&
        Math.Abs(nextPanel.G_edge[2] - G_edge[2]) <= tolerance
        &&
        Math.Abs(nextPanel.G_edge[3] - G_edge[3]) <= tolerance
        &&
        Math.Abs(nextPanel.G_diagonal_1 - G_diagonal_1) <= tolerance * Math.Sqrt(2)
    )
    { return true; }
    else
    { return false; }

}

}

#endregion

public class Group
{
    public int GroupNumber;
    public double[] Edge; //array of lengths of groups's edges.
    public double Diagonal; //length of group's diagonal.
    public double Area; //area of a grouped panel;
}

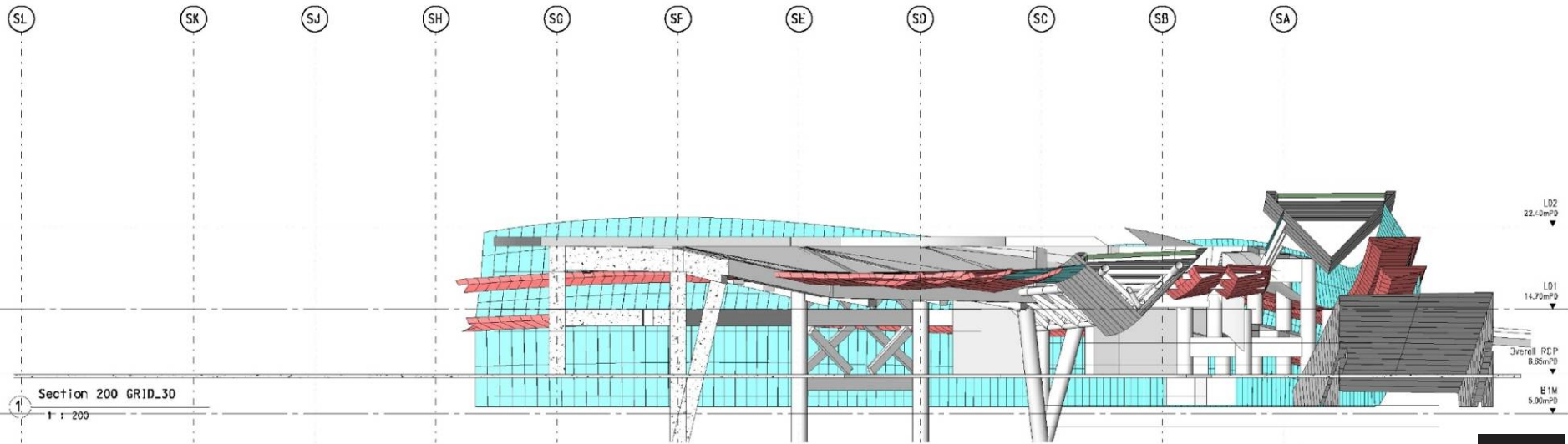
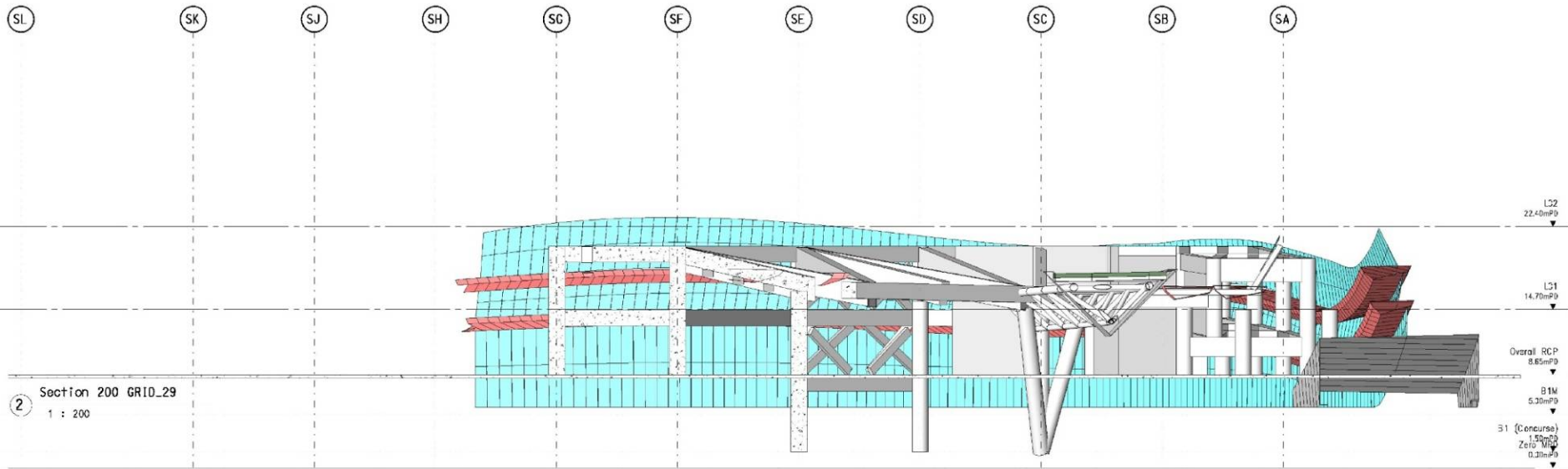
double toFeet(double value) //conversion of linear sizes for family instances
{
    return value * FACTOR_MMtoFT;
}

double toSqFeet(double value) //conversion of areal sizes for family instances
{

```

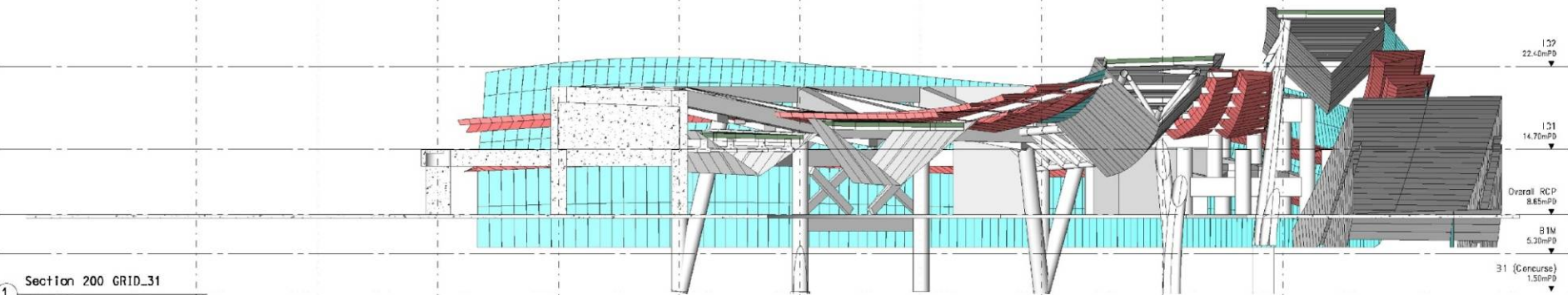


# CONTEXT

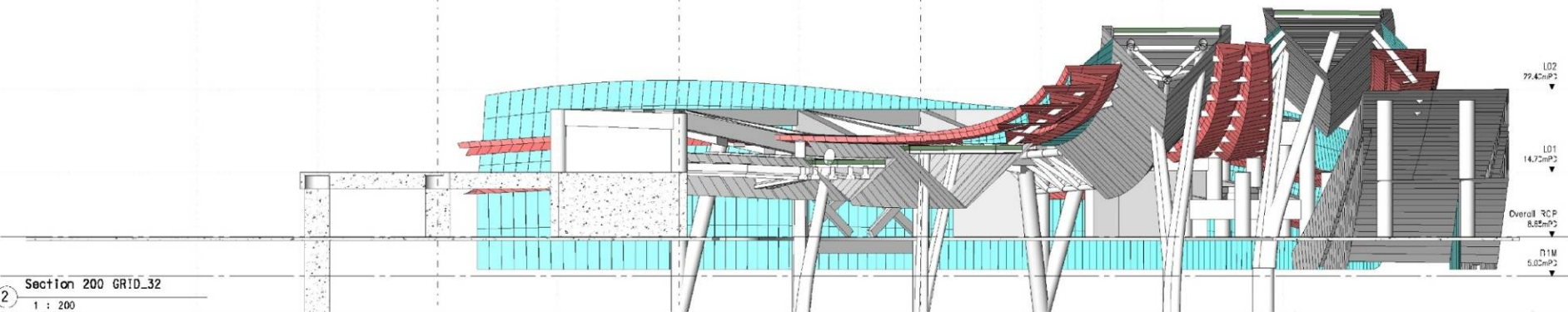


# TERMINUS STATION

SK SJ SH SG SF SE SD SC SB SA

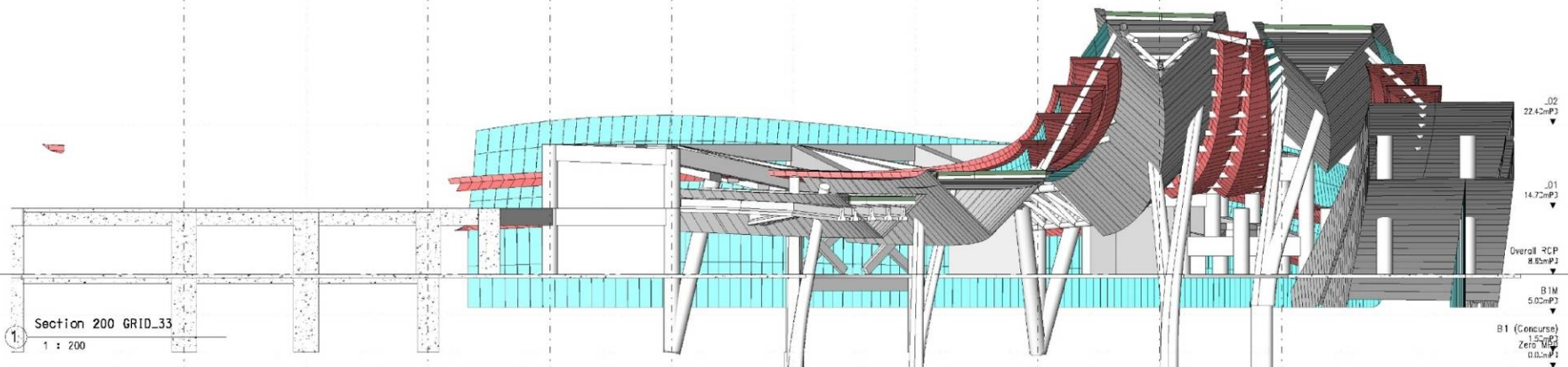


SK SJ SH SG SF SE SD SC SB SA

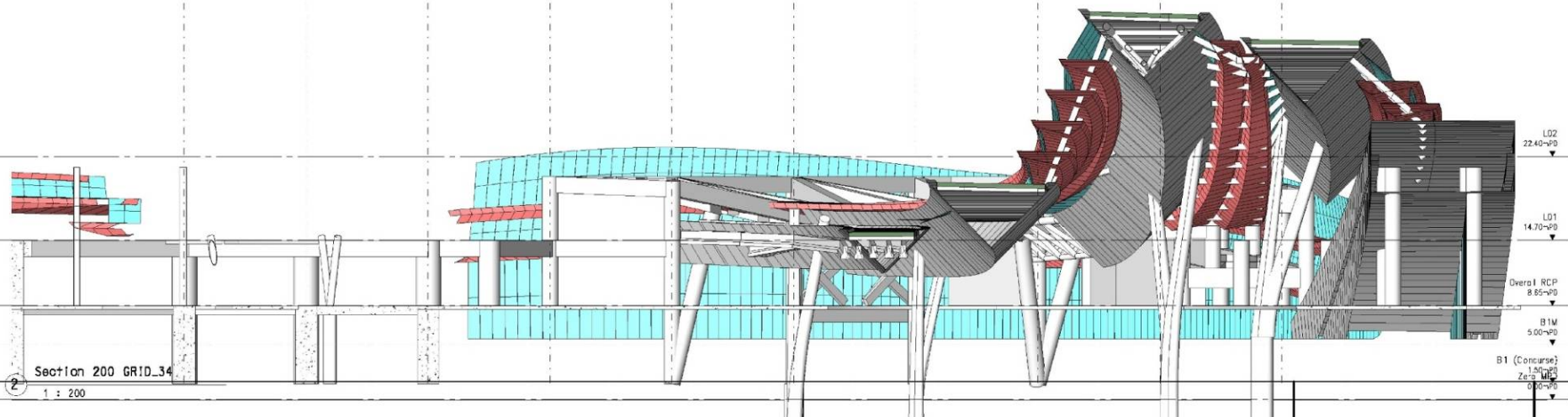


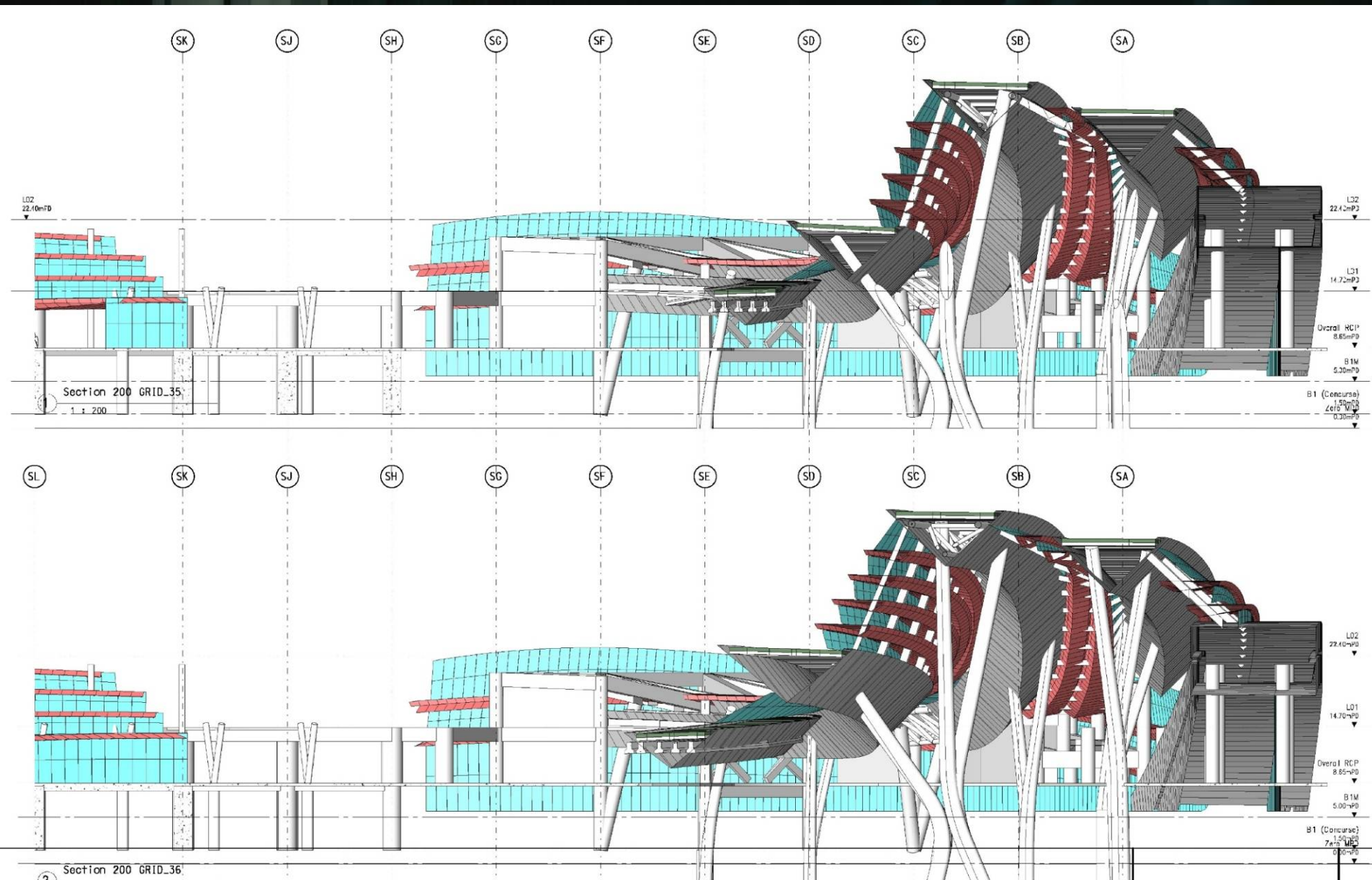


SK SJ SH SG SF SE SD SC SB SA

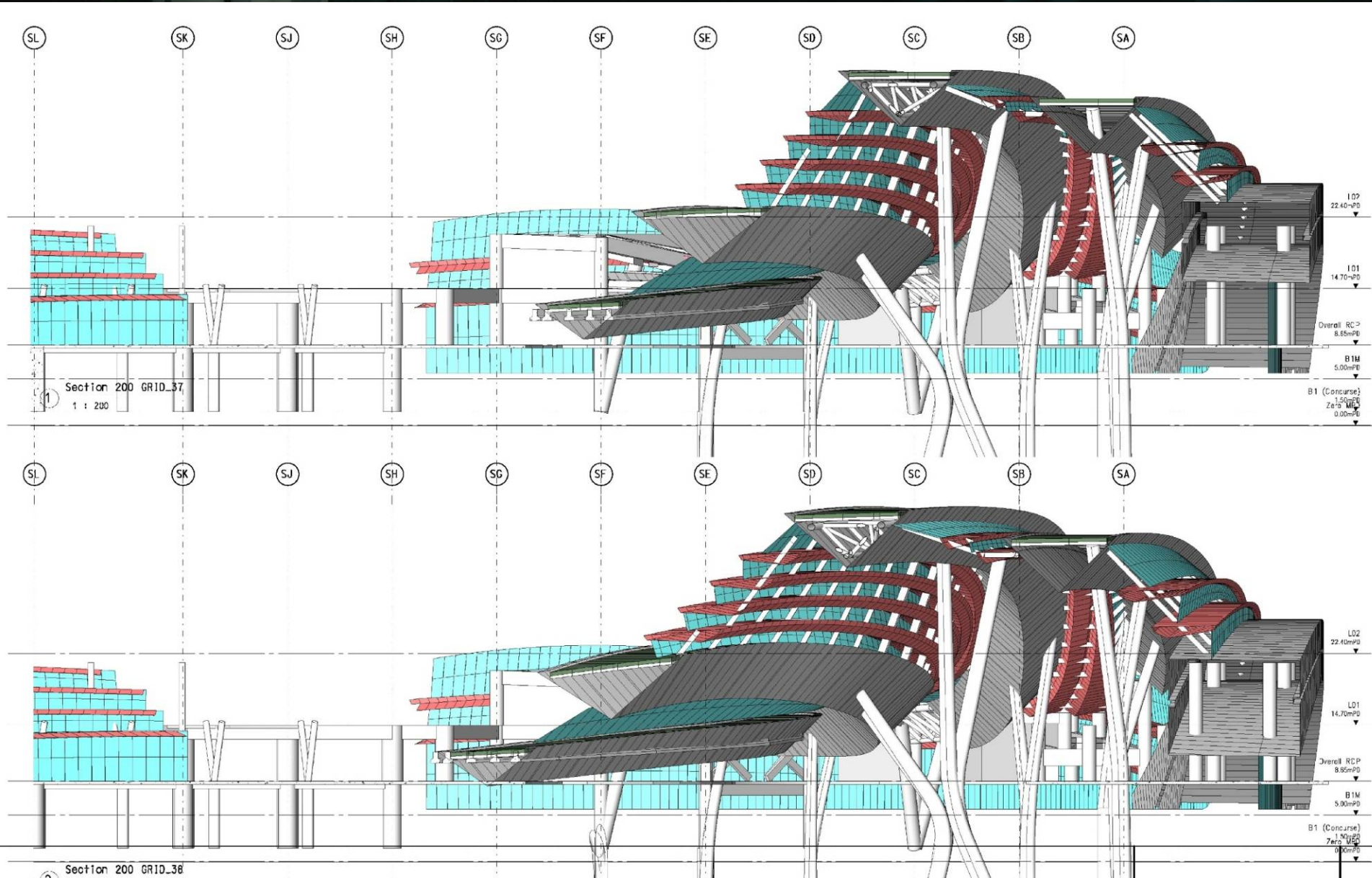


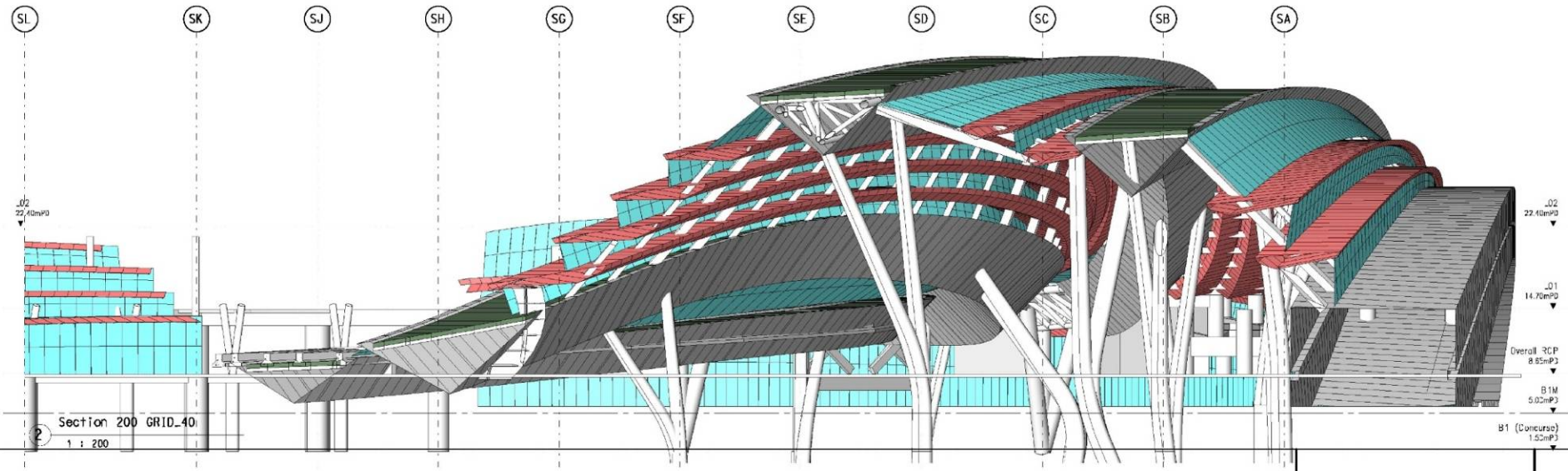
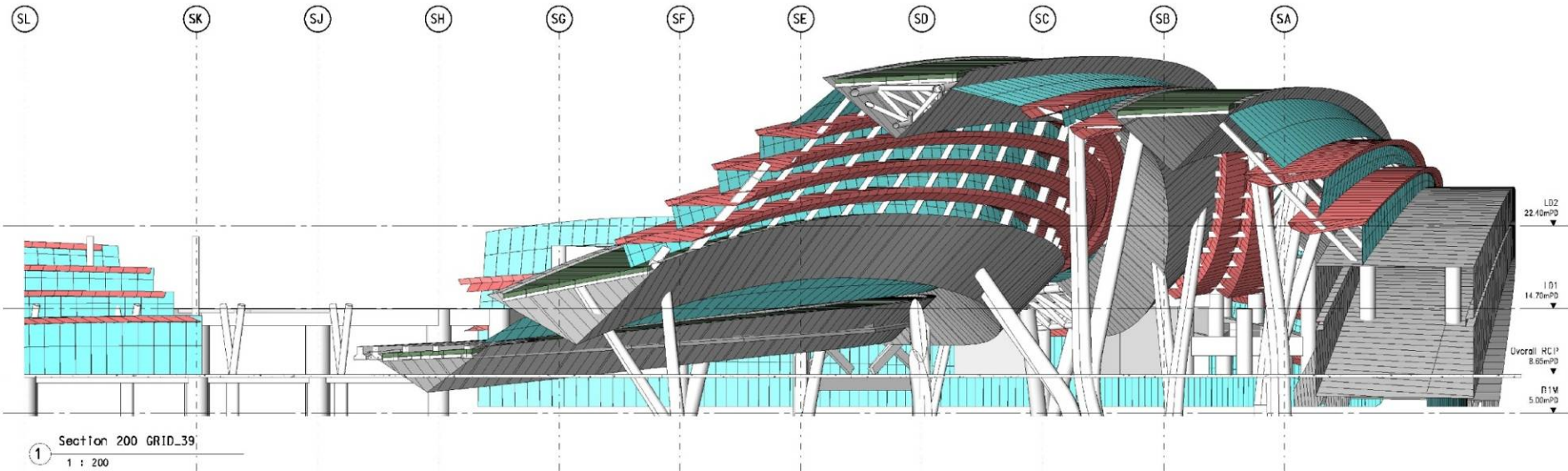
SK SJ SH SG SF SE SD SC SB SA





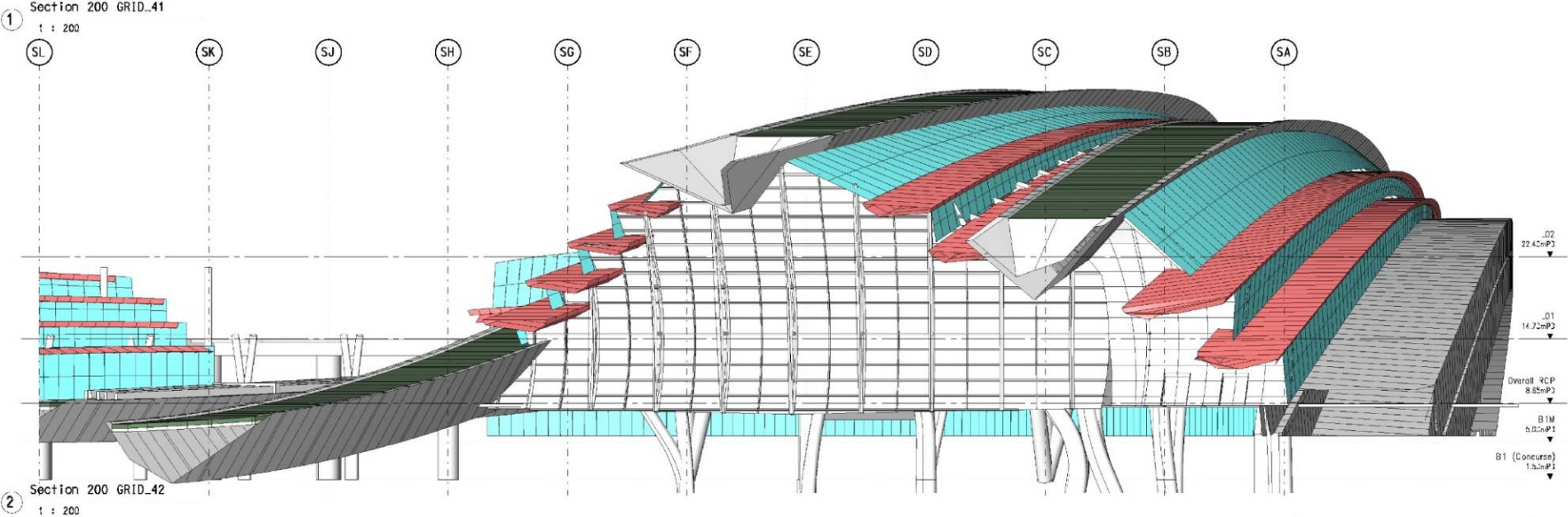
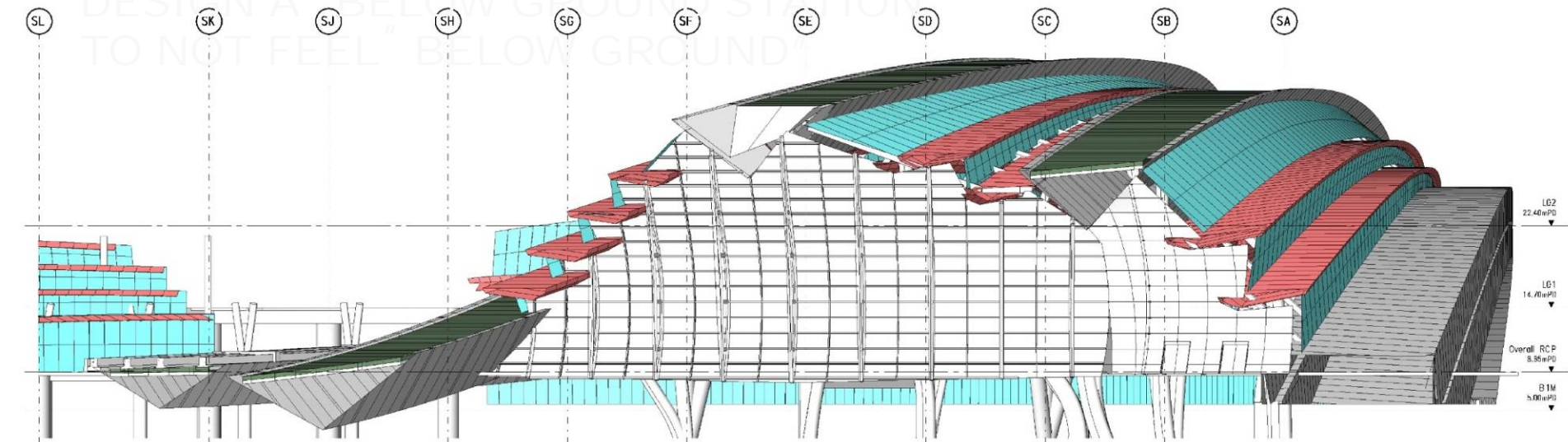




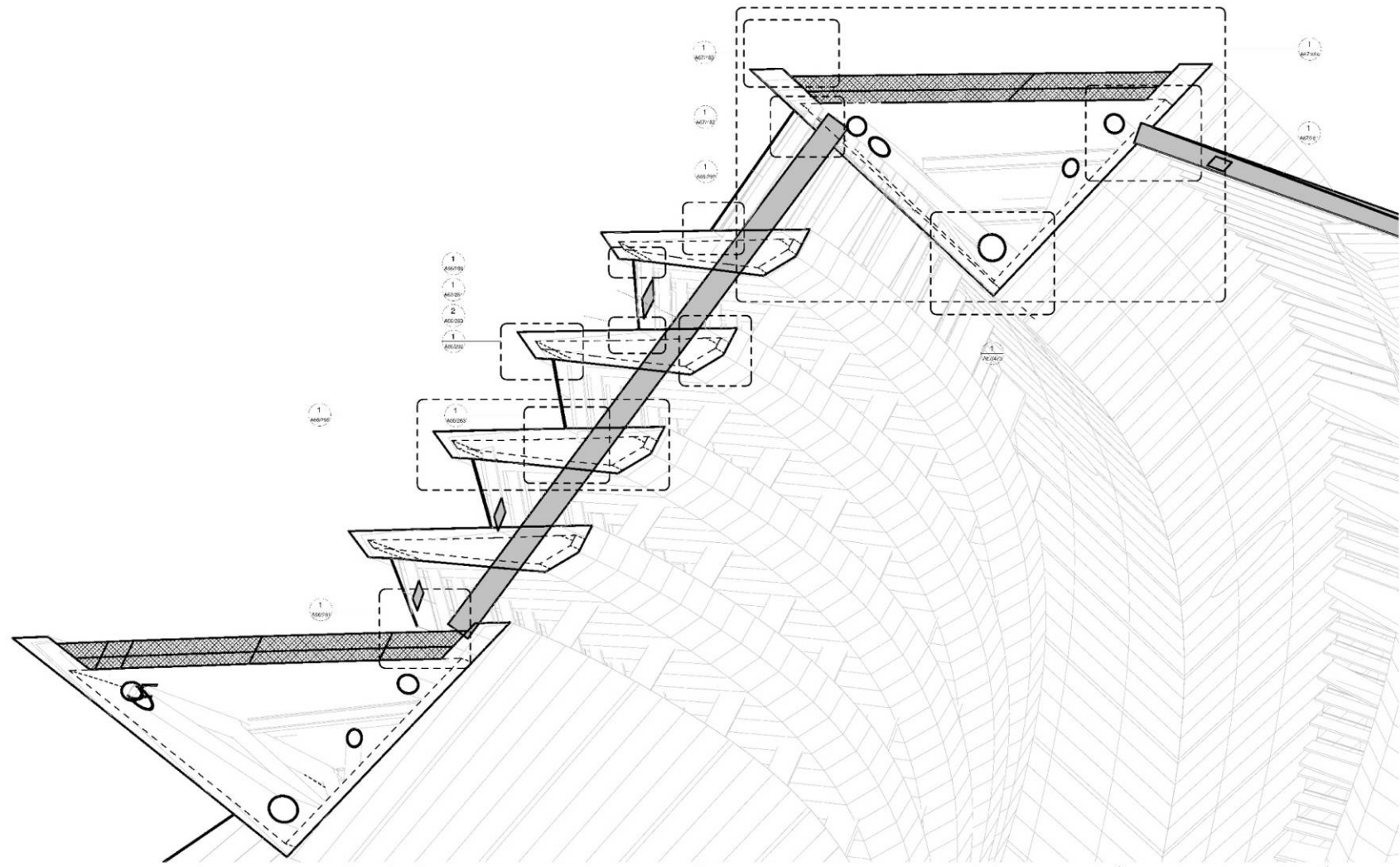




# DESIGN A "BELOW GROUND STATION" TO NOT FEEL "BELOW GROUND"



Project: Kowloon Terminus  
Date: 03/03/2010 12:21:08 PM  
Drawing: 810A/T/WKT/AAT/A12/A67/421



REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED

DRAWN	
DESIGNED	
CHECKED	F. MCNEIL
APPROVED	K. CHONG
DATE	June 2010

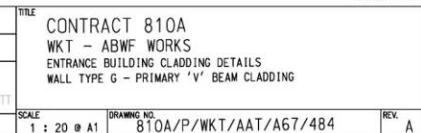
**EXPRESS RAIL LINK**

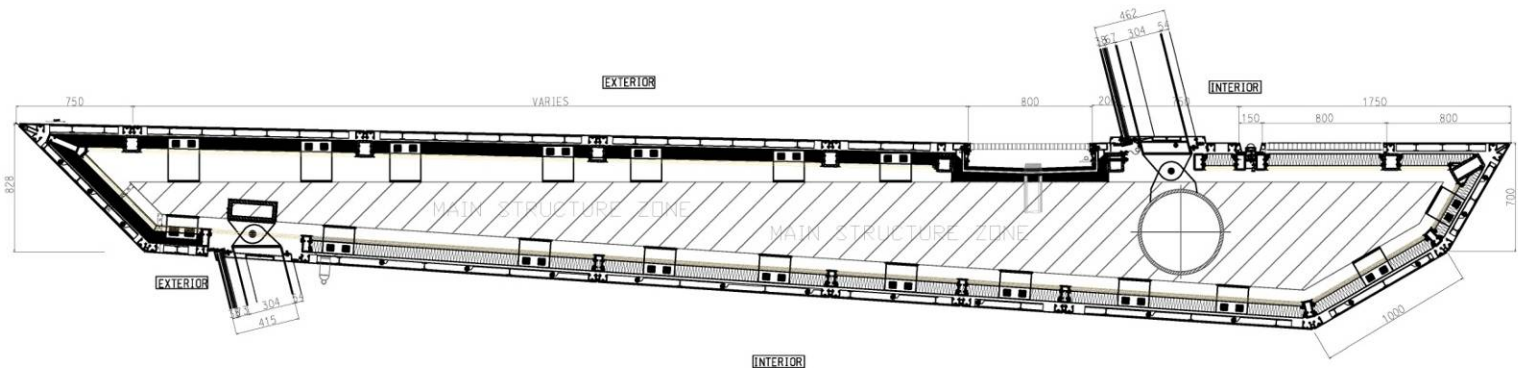


MAUNSELL • AEDAS • MTR • MVA • BURNS & MCDONNELL • EDWARDS • MOTT

TITLE		CONTRACT 810A	
		WKT - ABWF WORKS	
		Entrance Building, Wall Type G, V Beam P3 Typical Section	
SCALE	As indicated @	DRAWING NO.	810A/T/WKT/AAT/A12/A67/421
		REV	







01 CLERESTORY

ADVANCE CHECK PRINT

DRAWN	
DESIGNED	
CHECKED	
APPROVED	
DATE	



EXPRESS RAIL LINK

MAUNSELL | AECOM | Aedas

ORIGINATOR

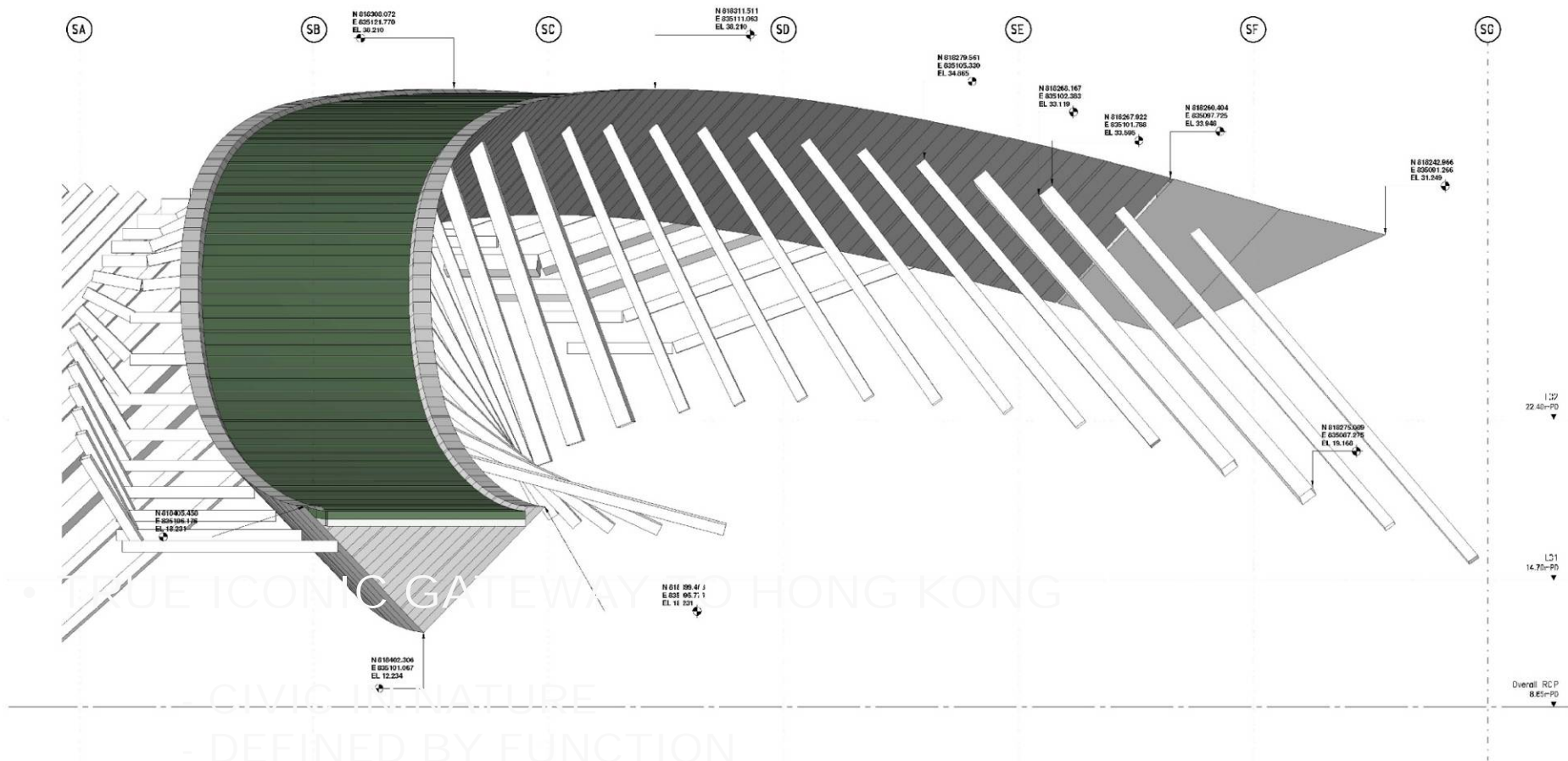
MAUNSELL • AEDAS • MEINHARDT • MVA • BURO HAPPOLD • EDWARDS

CADD REF.

TITLE	CONTRA
WKT	-
ENTRANCE BL	
WALL TYPE	
SCALE	1:15 @ A1

- LANDSCAPE GRASS
- LANDSCAPE GRAVEL
- SKYLIGHT
- WATER FEATURE
- METAL CLADDING
- COMMERCIAL OFFICE



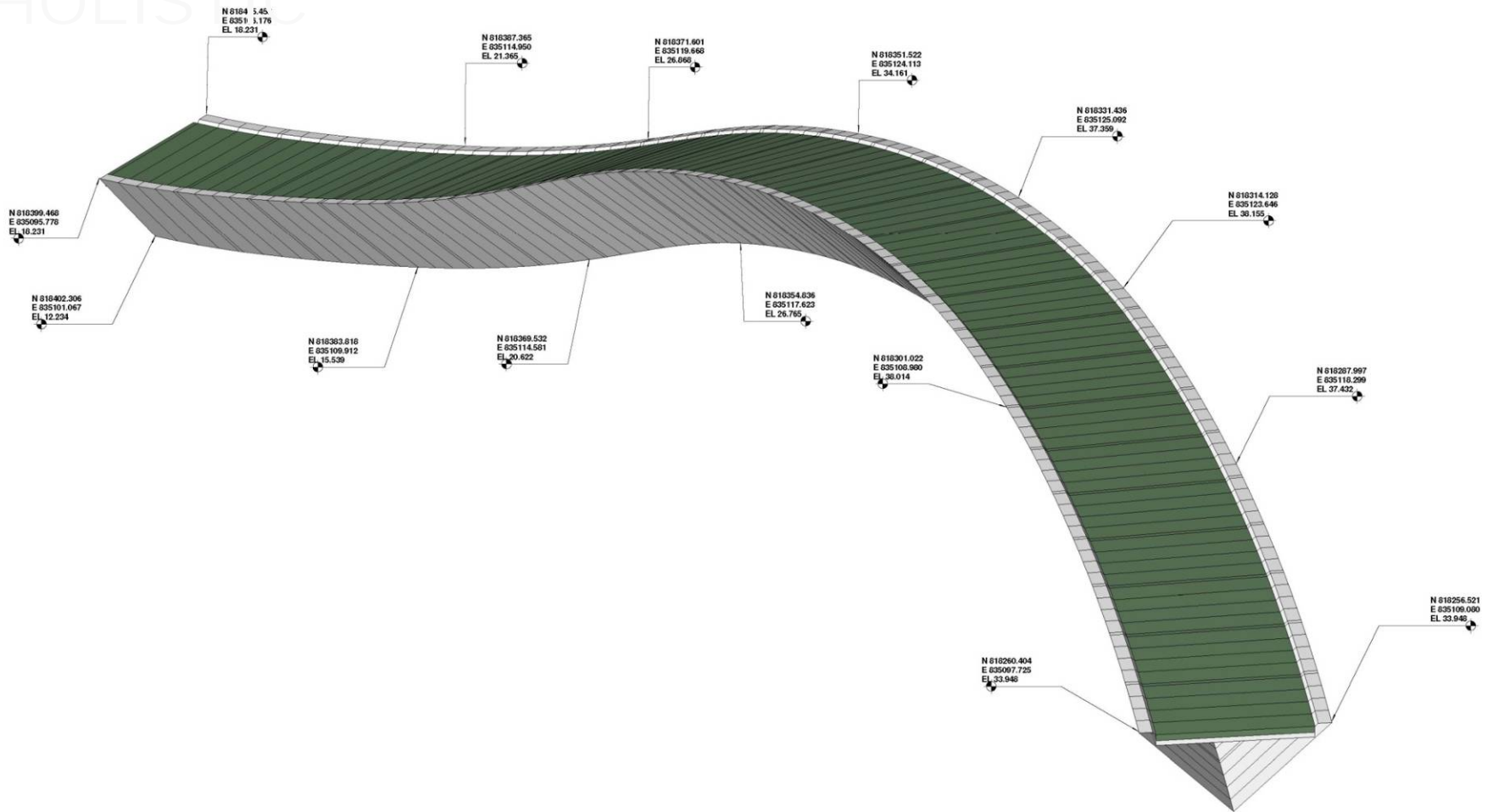


Component Elevation P3 North

1 : 100

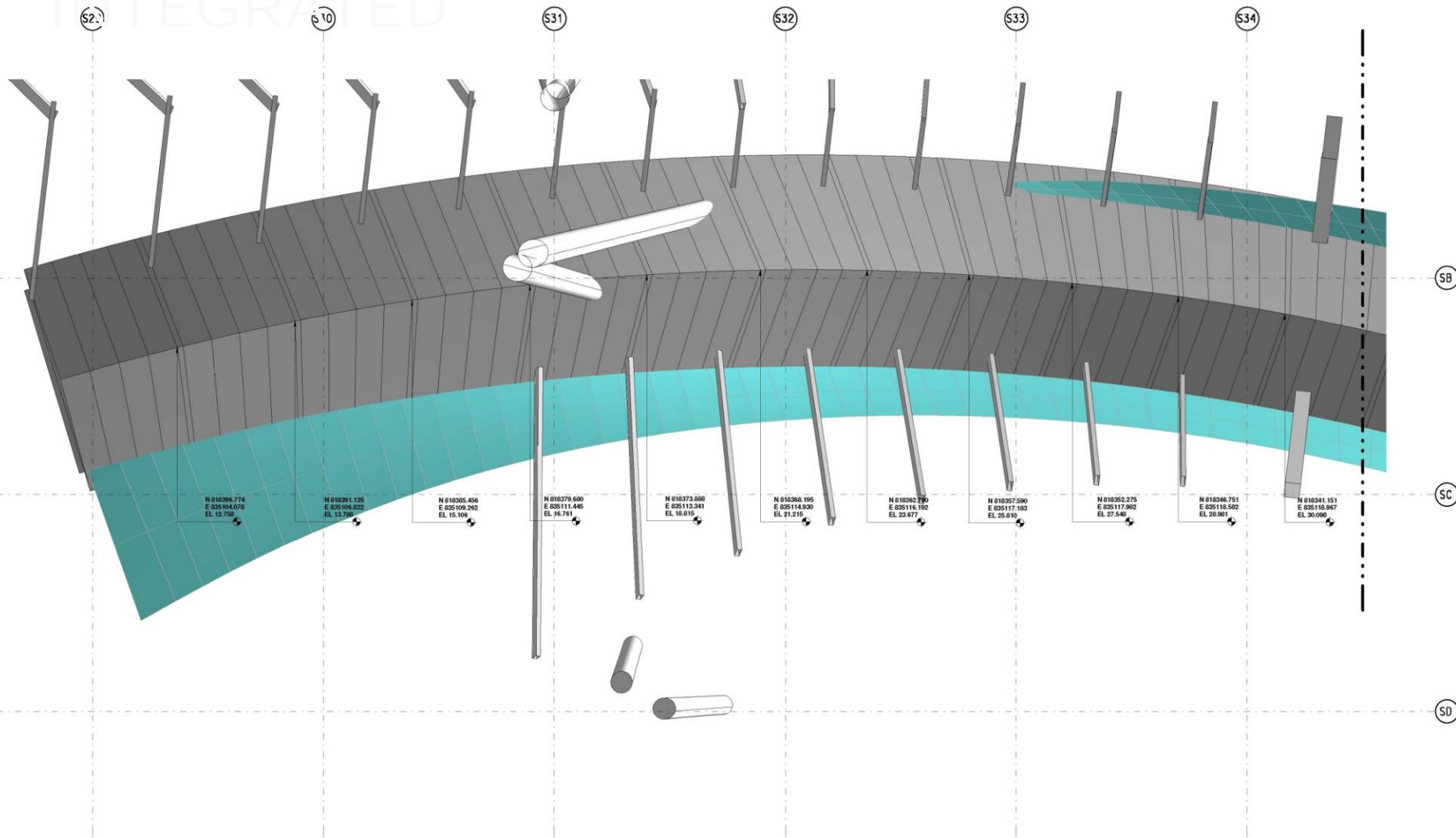
- EXCEEDING EXPECTATIONS

HOLISTIC





# INTEGRATED



LEFT\_Component RCP P3

1 : 100

# ARRIVING or DEPARTING...

## Panel P3S03P082

Group ..... AL 36  
Edge 1 ..... 1391 mm  
Edge 2 ..... 839 mm  
Edge 3 ..... 1398 mm  
Edge 4 ..... 839 mm  
Diagonal ..... 1628 mm  
Area ..... 1.197 m<sup>2</sup>

## Panel P3S03P081

Group ..... AL 33  
Edge 1 ..... 1358 mm  
Edge 2 ..... 839 mm  
Edge 3 ..... 1366 mm  
Edge 4 ..... 839 mm  
Diagonal ..... 1600 mm  
Area ..... 1.169 m<sup>2</sup>

## Panel P3S03P080

Group ..... AL 34  
Edge 1 ..... 267 mm  
Edge 2 ..... 824 mm  
Edge 3 ..... 269 mm  
Edge 4 ..... 824 mm  
Diagonal ..... 867 mm  
Area ..... 0.234 m<sup>2</sup>

## Panel P3S03P079

Group ..... AL 33  
Edge 1 ..... 1358 mm  
Edge 2 ..... 839 mm  
Edge 3 ..... 1366 mm  
Edge 4 ..... 839 mm  
Diagonal ..... 1600 mm  
Area ..... 1.169 m<sup>2</sup>

## Panel P3S03P078

Group ..... AL 33  
Edge 1 ..... 1358 mm  
Edge 2 ..... 839 mm  
Edge 3 ..... 1366 mm  
Edge 4 ..... 839 mm  
Diagonal ..... 1600 mm  
Area ..... 1.169 m<sup>2</sup>

## Panel P3S03P077

Group ..... AL 33  
Edge 1 ..... 1358 mm  
Edge 2 ..... 839 mm  
Edge 3 ..... 1366 mm  
Edge 4 ..... 839 mm  
Diagonal ..... 1600 mm  
Area ..... 1.169 m<sup>2</sup>

## Panel P3S04P082

Group ..... AL 43  
Edge 1 ..... 1378 mm  
Edge 2 ..... 276 mm  
Edge 3 ..... 1378 mm  
Edge 4 ..... 276 mm  
Diagonal ..... 1405 mm  
Area ..... 0.400 m<sup>2</sup>

## Panel P3S04P081

Group ..... AL 40  
Edge 1 ..... 1347 mm  
Edge 2 ..... 276 mm  
Edge 3 ..... 1354 mm  
Edge 4 ..... 276 mm  
Diagonal ..... 1379 mm  
Area ..... 0.392 m<sup>2</sup>

## Panel P3S04P080

Group ..... AL 41  
Edge 1 ..... 265 mm  
Edge 2 ..... 271 mm  
Edge 3 ..... 266 mm  
Edge 4 ..... 271 mm  
Diagonal ..... 381 mm  
Area ..... 0.078 m<sup>2</sup>

## Panel P3S04P079

Group ..... AL 40  
Edge 1 ..... 1347 mm  
Edge 2 ..... 276 mm  
Edge 3 ..... 1354 mm  
Edge 4 ..... 276 mm  
Diagonal ..... 1379 mm  
Area ..... 0.392 m<sup>2</sup>

## Panel P3S04P078

Group ..... AL 40  
Edge 1 ..... 1347 mm  
Edge 2 ..... 276 mm  
Edge 3 ..... 1354 mm  
Edge 4 ..... 276 mm  
Diagonal ..... 1379 mm  
Area ..... 0.392 m<sup>2</sup>

## Panel P3S04P077

Group ..... AL 40  
Edge 1 ..... 1347 mm  
Edge 2 ..... 276 mm  
Edge 3 ..... 1354 mm  
Edge 4 ..... 276 mm  
Diagonal ..... 1379 mm  
Area ..... 0.392 m<sup>2</sup>

## Panel P3S02P082

Group ..... AL 30  
Edge 1 ..... 1412 mm  
Edge 2 ..... 8443 mm  
Edge 3 ..... 1400 mm  
Edge 4 ..... 8443 mm  
Diagonal ..... 8559 mm  
Area ..... 11.992 m<sup>2</sup>

## Panel P3S02P081

Group ..... AL 29  
Edge 1 ..... 1400 mm  
Edge 2 ..... 8443 mm  
Edge 3 ..... 1367 mm  
Edge 4 ..... 8443 mm  
Diagonal ..... 8551 mm  
Area ..... 11.801 m<sup>2</sup>

## Panel P3S02P080

Group ..... AL 23  
Edge 1 ..... 272 mm  
Edge 2 ..... 8298 mm  
Edge 3 ..... 272 mm  
Edge 4 ..... 8298 mm  
Diagonal ..... 8296 mm  
Area ..... 2.361 m<sup>2</sup>

## Panel P3S02P079

Group ..... AL 29  
Edge 1 ..... 1400 mm  
Edge 2 ..... 8443 mm  
Edge 3 ..... 1367 mm  
Edge 4 ..... 8443 mm  
Diagonal ..... 8551 mm  
Area ..... 11.801 m<sup>2</sup>

## Panel P3S02P078

Group ..... AL 29  
Edge 1 ..... 1400 mm  
Edge 2 ..... 8443 mm  
Edge 3 ..... 1367 mm  
Edge 4 ..... 8443 mm  
Diagonal ..... 8551 mm  
Area ..... 11.801 m<sup>2</sup>

## Panel P3S02P077

Group ..... AL 29  
Edge 1 ..... 1400 mm  
Edge 2 ..... 8443 mm  
Edge 3 ..... 1367 mm  
Edge 4 ..... 8443 mm  
Diagonal ..... 8551 mm  
Area ..... 11.801 m<sup>2</sup>



P3

Schedule of panels																								
Panel	Point 1				Point 2				Point 3				Point 4				Center of weight				Edges			
	P01 x	P01 y	P01 z		P02 x	P02 y	P02 z		P03 x	P03 y	P03 z		P04 x	P04 y	P04 z		C x	C y	C z		Edge 1	Edge 2	Edge 3	Edge 4
P3S01P001	8351061129	8184055541	18298	835101017	818402394	12231	835106871	818404239	18290	835101802	818401012	12299	835103955	818403297	15262	1493	8448	1583	8448	8585	13.111 m²	AL 1		
P3S01P002	835106871	818404239	18290	835101802	818401012	12299	835107598	818402931	18391	835102588	818399625	12410	835104710	818401952	15347	1493	8448	1583	8448	8585	13.111 m²	AL 1		
P3S01P003	835107598	818402931	18391	835102588	818399625	12410	835108310	818401617	18528	835103312	818398241	12560	835105447	818400664	15472	1493	8448	1583	8448	8585	13.111 m²	AL 1		
AL 1.3																					35.335 m²			
P3S01P004	835108310	818401617	18528	835103312	818398241	12560	835109007	818400300	18696	835104033	818396862	12745	835106166	818399255	15633	1493	8448	1559	8448	8583	13.010 m²	AL 2		
AL 2.1																					13.010 m²			
P3S01P005	835109007	818400300	18696	835104033	818396862	12745	835109144	818400036	18736	835104175	818396588	12786	835106560	818398446	15741	294	8313	305	8313	8318	2.594 m²	AL 3		
P3S01P010	835111765	818394722	19674	835106783	818391211	13770	835111890	818394454	19728	835109506	818390943	13826	835109336	818392833	16760	294	8313	305	8313	8318	2.594 m²	AL 3		
P3S01P015	835114256	818398075	20334	835109228	818385543	15084	835114368	818388805	21001	835109337	818395271	15154	835111797	818387174	18043	294	8313	305	8313	8318	2.594 m²	AL 3		
P3S01P020	835116476	818383392	22499	835111414	818379769	16734	835116575	818383121	22582	835111511	818379492	16822	835113994	818381444	19659	294	8313	305	8313	8318	2.594 m²	AL 3		
P3S01P025	835118417	818377721	24432	835113315	818373975	16781	835118503	818377451	24534	835113398	818373701	16888	835115908	818375712	21659	294	8313	305	8313	8318	2.594 m²	AL 3		
P3S01P030	835120084	818372092	26716	835114909	818368280	21178	835120157	818371825	26832	835114977	818368015	21297	835117532	818370053	24068	294	8313	305	8313	8318	2.594 m²	AL 3		
AL 3.6																					15.564 m²			
P3S01P036	835109144	818400036	18736	835104175	818396588	12786	835109622	818398714	18942	835104883	818395227	13005	835107001	818397641	16867	1493	8448	1534	8448	8581	12.901 m²	AL 4		
P3S01P018	835115454	818386100	21710	835110405	818382531	15899	835115973	818384746	22094	835110918	818381150	16305	835113167	818383632	19002	1493	8448	1534	8448	8581	12.901 m²	AL 4		
P3S01P019	835115973	818384746	22094	835110918	818381150	16305	835116476	818383392	22499	835114144	818379769	16734	835113993	818386264	19408	1493	8448	1534	8448	8581	12.901 m²	AL 4		
P3S01P021	835116575	818383121	22582	835111511	818379492	16822	835117059	818381769	23013	835111987	818378111	17278	835114283	818380623	19924	1493	8448	1534	8448	8581	12.901 m²	AL 4		
P3S01P022	835117059	818381769	23013	835111987	818378111	17278	835117528	818380417	23465	835112447	818376730	17767	835114755	818379257	20378	1493	8448	1534	8448	8581	12.901 m²	AL 4		
P3S01P023	835117528	818380417	23465	835112447	818376730	17767	835117980	818379088	23938	835112890	818375351	18258	835115211	818377891	20855	1493	8448	1534	8448	8581	12.901 m²	AL 4		
P3S01P024	835117980	818379088	23938	835112890	818375351	18258	835118417	818377721	24432	835113315	818373075	16781	835115550	818376629	21353	1493	8448	1534	8448	8581	12.901 m²	AL 4		
P3S01P026	835118503	818373701	16888	835118921	818376718	20502	835118921	818376718	20502	835113802	818372392	19436	835116156	818374988	21978	1493	8448	1534	8448	8581	12.901 m²	AL 4		
AL 4.8																					103.208 m²			
P3S01P007	835109822	818386714	18942	835104883	818395227	13005	835110485	818397388	19170	835105522	818393885	13245	835107673	818396303	16000	1493	8445	1507	8445	8578	12.786 m²	AL 5		
P3S01P008	835110485	818397388	19170	835105522	818393885	13245	835111332	818396057	19414	835109161	818392551	13500	835108325	818394070	16332	1493	8445	1507	8445	8578	12.786 m²	AL 5		
P3S01P009	835111332	818396057	19414	835109161	818392551	13500	835111765	818394722	19674	835106783	818391211	13770	835109960	818393635	16590	1493	8445	1507	8445	8578	12.786 m²	AL 5		
P3S01P011	835111890	818394454	19728	835109506	818385093	13826	835112504	818393115	20006	835107510	818386599	14116	835108702	818382028	16919	1493	8445	1507	8445	8578	12.786 m²	AL 5		
P3S01P012	835112504	818393115	20006	835107510	818386599	14116	835113103	818391771	20300	835108097	818388252	14422	835110304	818390654	17211	1493	8445	1507	8445	8578	12.786 m²	AL 5		
P3S01P013	835113103	818391771	20300	835108097	818388252	14422	835113688	818390425	20609	835108670	818386600	14745	835110890	818398357	17519	1493	8445	1507	8445	8578	12.786 m²	AL 5		
P3S01P014	835113688	818390425	20609	835108670	818386600	14745	835114256	818389075	20934	835109228	818385543	15084	835111450	818387968	17943	1493	8445	1507	8445	8578	12.786 m²	AL 5		
P3S01P016	835114368	818388805	21001	835109337	818385271	15154	835114919	818387453	21346	835109878	818383806	15516	835112126	818386359	18254	1493	8445	1507	8445	8578	12.786 m²	AL 5		
P3S01P017	835114919	818387453	21346	835109878	818383806	15516	835115454	818386100	21710	835110405	818382531	15899	835112654	818384998	18918	1493	8445	1507	8445	8578	12.786 m²	AL 5		
P3S01P027	835118921	818376718	20502	835113802	818372392	19436	835119324	818373428	26145	835114189	818370671	20002	835116559	818373544	22520	1493	8445	1507	8445	8578	12.786 m²	AL 5		
P3S01P028	835119324	818373428	26145	835114189	818370671	20002	835119711	818373428	26145	835114589	818368618	20585	835116948	818372196	23081	1493	8445	1507	8445	8578	12.786 m²	AL 5		
P3S01P029	835119711	818373428	26145	835114589	818368618	20585	835120084	818372092	26716	835114909	818368280	21178	835117316	818370855	23656	1493	8445	1507	8445	8578	12.786 m²	AL 5		
AL 5.12																					153.439 m²			
P3S01P031	835120157	818371825	26832	835114977	818368015	21297	835120513	818370490	27416	835115304	818366697	21896	835117738	818369257	24360	1493	8445	1477	8445	8574	12.661 m²	AL 6		
AL 6.1																					12.661 m²			

Panel P3S02P002

Group ..... AL 14  
Edge 1 ..... 1583 mm  
Edge 2 ..... 8445 mm  
Edge 3 ..... 1367 mm  
Edge 4 ..... 8445 mm  
Diagonal .... 8568 mm  
Area ..... 12.573 m²

N 818401012  
E 835101802  
EL 12299

N 818404239  
E 835106871  
EL 18290

Panel P3S01P002  
Group ..... AL 1  
Edge 1 ..... 1493 mm  
Edge 2 ..... 8446 mm  
Edge 3 ..... 1583 mm  
Edge 4 ..... 8446 mm  
Diagonal .... 8585 mm  
Area ..... 13.111 m²

Panel P3S01P009

Group ..... AL 5  
Edge 1 ..... 1493 mm  
Edge 2 ..... 8445 mm  
Edge 3 ..... 1507 mm  
Edge 4 ..... 8445 mm  
Diagonal .... 8578 mm  
Area ..... 12.786 m²

Remark: An above table is a portion extracted for presentation purpose from the full schedule of panels included in the BIM model.

P3

N 818398670  
E 835109844  
EL 18950

N 818405541  
E 835106129  
EL 18228

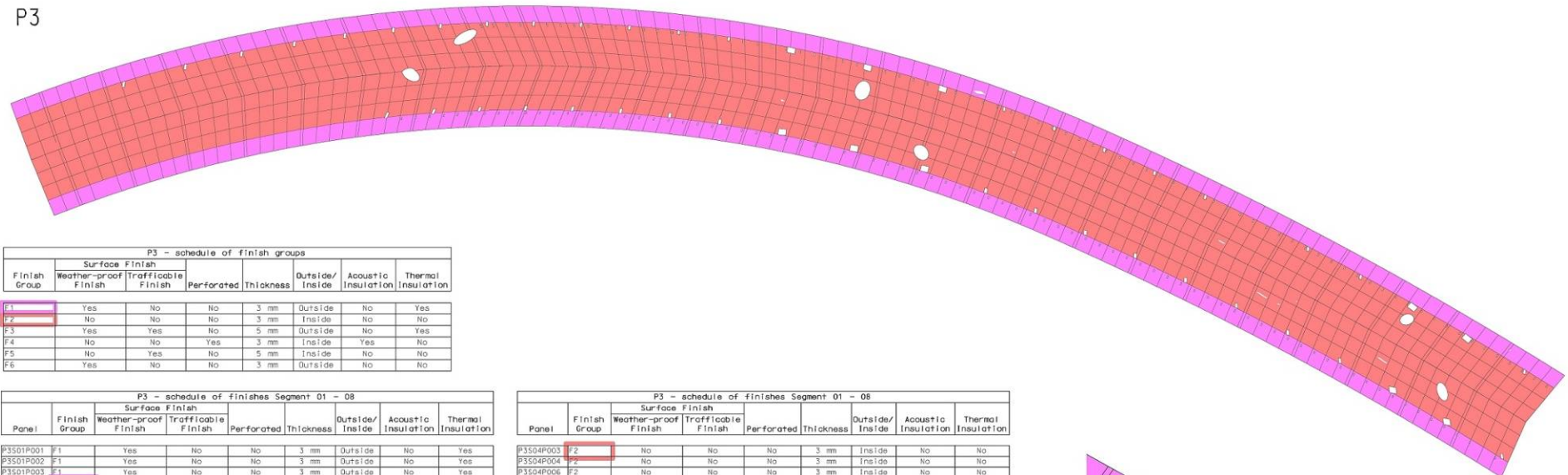
N 818402394  
E 835101017  
EL 12231

N 818398353  
E 835096414  
EL 18290

Schedule of panel groups								
Group Name	Number of panels	Edge 1	Edge 2	Edge 3	Edge 4	Diagonal	Panel area	Group Area
AL 1	3	1493	8446	1593	8446	8595	13.111 m <sup>2</sup>	39.333 m <sup>2</sup>
AL 2	1	1493	8446	1599	8446	8583	13.010 m <sup>2</sup>	13.010 m <sup>2</sup>
AL 3	6	284	8313	305	8313	8318	2.594 m <sup>2</sup>	15.564 m <sup>2</sup>
AL 4	9	1493	8448	1534	8446	8581	12.901 m <sup>2</sup>	103.208 m <sup>2</sup>
AL 5	12	1493	8445	1507	8445	8578	12.786 m <sup>2</sup>	153.433 m <sup>2</sup>
AL 6	1	1493	8445	1477	8445	8574	12.661 m <sup>2</sup>	12.661 m <sup>2</sup>
AL 7	32	1493	8444	1452	8444	8572	12.554 m <sup>2</sup>	401.734 m <sup>2</sup>
AL 8	5	1493	8444	1424	8444	8569	12.436 m <sup>2</sup>	62.180 m <sup>2</sup>
AL 9	13	1493	8444	1398	8444	8567	12.325 m <sup>2</sup>	160.227 m <sup>2</sup>
AL 10	13	284	8303	272	8302	8307	2.453 m <sup>2</sup>	80.933 m <sup>2</sup>
AL 11	25	1493	8443	1399	8443	8564	12.199 m <sup>2</sup>	304.979 m <sup>2</sup>
AL 12	3	1493	8443	1354	8443	8562	12.139 m <sup>2</sup>	60.676 m <sup>2</sup>
AL 13	3	1493	8443	1338	8443	8560	12.069 m <sup>2</sup>	36.208 m <sup>2</sup>
AL 14	3	1583	8445	1367	8445	8568	12.673 m <sup>2</sup>	37.718 m <sup>2</sup>
AL 15	1	1559	8445	1368	8445	8560	12.479 m <sup>2</sup>	12.479 m <sup>2</sup>
AL 16	6	1533	8445	1369	8445	8556	12.372 m <sup>2</sup>	98.979 m <sup>2</sup>
AL 17	3	1513	8445	1374	8445	8547	12.311 m <sup>2</sup>	36.932 m <sup>2</sup>
AL 18	1	1497	8446	1385	8445	8536	12.290 m <sup>2</sup>	12.290 m <sup>2</sup>
AL 19	1	1477	8445	1387	8445	8534	12.209 m <sup>2</sup>	12.209 m <sup>2</sup>
AL 20	1	1452	8445	1387	8445	8531	12.102 m <sup>2</sup>	12.102 m <sup>2</sup>
AL 21	1	1424	8445	1387	8445	8529	11.984 m <sup>2</sup>	11.984 m <sup>2</sup>
AL 22	1	1388	8444	1386	8444	8527	11.871 m <sup>2</sup>	11.871 m <sup>2</sup>
AL 23	11	272	8298	272	8298	8296	2.361 m <sup>2</sup>	25.974 m <sup>2</sup>
AL 24	6	1569	8444	1385	8444	8524	11.742 m <sup>2</sup>	70.452 m <sup>2</sup>
AL 25	7	1254	8444	1384	8444	8524	11.674 m <sup>2</sup>	81.716 m <sup>2</sup>
AL 26	3	1338	8443	1381	8443	8524	11.595 m <sup>2</sup>	34.788 m <sup>2</sup>
AL 27	6	1362	8442	1389	8442	8539	11.648 m <sup>2</sup>	93.185 m <sup>2</sup>
AL 28	3	1380	8442	1367	8442	8543	11.714 m <sup>2</sup>	35.143 m <sup>2</sup>
AL 29	10	1400	8443	1367	8443	8551	11.801 m <sup>2</sup>	118.005 m <sup>2</sup>
AL 30	1	1412	8443	1400	8443	8559	11.992 m <sup>2</sup>	11.992 m <sup>2</sup>
AL 31	10	1427	8444	1431	8444	8564	12.187 m <sup>2</sup>	121.867 m <sup>2</sup>
AL 32	24	1440	8444	1453	8444	8568	12.334 m <sup>2</sup>	296.014 m <sup>2</sup>
AL 33	62	1358	839	1366	839	1607	1.169 m <sup>2</sup>	66.791 m <sup>2</sup>
AL 34	16	267	824	269	824	867	0.294 m <sup>2</sup>	3.748 m <sup>2</sup>
AL 35	13	1372	839	1379	839	1611	1.181 m <sup>2</sup>	15.348 m <sup>2</sup>
AL 36	1	1391	839	1398	839	1628	1.197 m <sup>2</sup>	1.197 m <sup>2</sup>
AL 37	31	1422	839	1426	839	1653	1.222 m <sup>2</sup>	37.880 m <sup>2</sup>
AL 38	3	1444	839	1447	839	1671	1.240 m <sup>2</sup>	3.720 m <sup>2</sup>
AL 39	34	284	825	285	825	873	0.248 m <sup>2</sup>	8.448 m <sup>2</sup>
AL 40	54	1347	276	1354	276	1379	0.392 m <sup>2</sup>	21.163 m <sup>2</sup>
AL 41	24	265	271	266	271	361	0.078 m <sup>2</sup>	1.883 m <sup>2</sup>
AL 42	11	1361	276	1366	276	1396	0.396 m <sup>2</sup>	4.353 m <sup>2</sup>
AL 43	1	1378	276	1378	276	1405	0.400 m <sup>2</sup>	0.400 m <sup>2</sup>
AL 44	32	1406	276	1408	276	1432	0.408 m <sup>2</sup>	13.052 m <sup>2</sup>
AL 45	2	1426	276	1425	276	1452	0.414 m <sup>2</sup>	0.827 m <sup>2</sup>
AL 46	26	261	271	261	271	390	0.083 m <sup>2</sup>	2.154 m <sup>2</sup>
AL 47	100	1456	276	1453	276	1481	0.422 m <sup>2</sup>	42.209 m <sup>2</sup>
AL 48	100	1474	839	1483	839	1700	1.269 m <sup>2</sup>	126.892 m <sup>2</sup>
Grand total:	750							2923.908 m <sup>2</sup>



P3

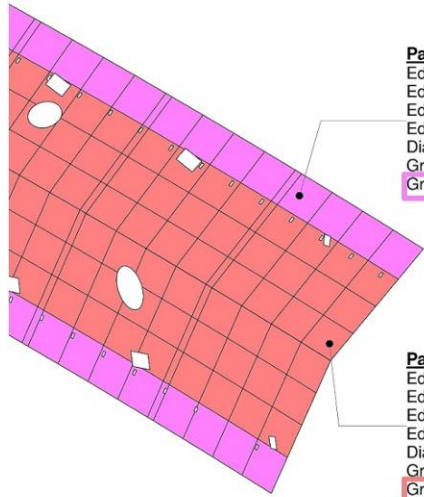


P3 - schedule of finish groups							
Finish Group	Surface Finish		Perforated	Thickness	Outside/ Inside	Acoustic Insulation	Thermal Insulation
	Weather-proof Finish	Trafficable Finish					
F1	Yes	No	No	3 mm	Outside	No	Yes
F2	No	No	No	3 mm	Inside	No	No
F3	Yes	No	No	5 mm	Outside	No	Yes
F4	No	No	Yes	3 mm	Inside	Yes	No
F5	No	Yes	No	5 mm	Inside	No	No
F6	Yes	No	No	3 mm	Outside	No	No

P3 - schedule of finishes Segment 01 - 08								
Panel	Finish Group	Surface Finish		Perforated	Thickness	Outside/ Inside	Acoustic Insulation	Thermal Insulation
		Weather-proof Finish	Trafficable Finish					
P3501P001	F1	Yes	No	No	3 mm	Outside	No	Yes
P3501P002	F1	Yes	No	No	3 mm	Outside	No	Yes
P3501P003	F1	Yes	No	No	3 mm	Outside	No	Yes
P3501P004	F1	Yes	No	No	3 mm	Outside	No	Yes
P3501P005	F1	Yes	No	No	3 mm	Outside	No	Yes
P3501P006	F1	Yes	No	No	3 mm	Outside	No	Yes
P3501P007	F1	Yes	No	No	3 mm	Outside	No	Yes
P3501P008	F1	Yes	No	No	3 mm	Outside	No	Yes
P3501P009	F1	Yes	No	No	3 mm	Outside	No	Yes
P3508P001	F1	Yes	No	No	3 mm	Outside	No	Yes
P3508P002	F1	Yes	No	No	3 mm	Outside	No	Yes
P3508P003	F1	Yes	No	No	3 mm	Outside	No	Yes
P3508P004	F1	Yes	No	No	3 mm	Outside	No	Yes
P3508P005	F1	Yes	No	No	3 mm	Outside	No	Yes
P3508P006	F1	Yes	No	No	3 mm	Outside	No	Yes
P3508P007	F1	Yes	No	No	3 mm	Outside	No	Yes
P3508P008	F1	Yes	No	No	3 mm	Outside	No	Yes
F 1: 17								
P3502P001	F2	No	No	No	3 mm	Inside	No	No
P3502P002	F2	No	No	No	3 mm	Inside	No	No
P3502P003	F2	No	No	No	3 mm	Inside	No	No
P3502P004	F2	No	No	No	3 mm	Inside	No	No
P3502P005	F2	No	No	No	3 mm	Inside	No	No
P3502P006	F2	No	No	No	3 mm	Inside	No	No
P3502P007	F2	No	No	No	3 mm	Inside	No	No
P3502P008	F2	No	No	No	3 mm	Inside	No	No
P3502P009	F2	No	No	No	3 mm	Inside	No	No
P3503P001	F2	No	No	No	3 mm	Inside	No	No
P3503P002	F2	No	No	No	3 mm	Inside	No	No
P3503P003	F2	No	No	No	3 mm	Inside	No	No
P3503P004	F2	No	No	No	3 mm	Inside	No	No
P3503P005	F2	No	No	No	3 mm	Inside	No	No
P3503P006	F2	No	No	No	3 mm	Inside	No	No
P3503P007	F2	No	No	No	3 mm	Inside	No	No
P3503P008	F2	No	No	No	3 mm	Inside	No	No
P3503P009	F2	No	No	No	3 mm	Inside	No	No
P3504P001	F2	No	No	No	3 mm	Inside	No	No
P3504P002	F2	No	No	No	3 mm	Inside	No	No

P3 - schedule of finishes Segment 01 - 08								
Panel	Finish Group	Surface Finish		Perforated	Thickness	Outside/ Inside	Acoustic Insulation	Thermal Insulation
		Weather-proof Finish	Trafficable Finish					
P3504P003	F2	No	No	No	3 mm	Inside	No	No
P3504P004	F2	No	No	No	3 mm	Inside	No	No
P3504P006	F2	No	No	No	3 mm	Inside	No	No
P3504P007	F2	No	No	No	3 mm	Inside	No	No
P3504P008	F2	No	No	No	3 mm	Inside	No	No
P3504P009	F2	No	No	No	3 mm	Inside	No	No
F 2: 25								
P3505P005	F2	No	No	No	3 mm	Inside	No	No
P3504P005	F2	No	No	No	3 mm	Inside	No	No
P3505P001	F2	No	No	No	3 mm	Inside	No	No
P3505P002	F2	No	No	No	3 mm	Inside	No	No
P3505P003	F2	No	No	No	3 mm	Inside	No	No
P3505P004	F2	No	No	No	3 mm	Inside	No	No
P3505P005	F2	No	No	No	3 mm	Inside	No	No
P3505P006	F2	No	No	No	3 mm	Inside	No	No
P3505P007	F2	No	No	No	3 mm	Inside	No	No
P3505P008	F2	No	No	No	3 mm	Inside	No	No
P3505P009	F2	No	No	No	3 mm	Inside	No	No
P3506P001	F2	No	No	No	3 mm	Inside	No	No
P3506P002	F2	No	No	No	3 mm	Inside	No	No
P3506P003	F2	No	No	No	3 mm	Inside	No	No
P3506P004	F2	No	No	No	3 mm	Inside	No	No
P3506P005	F2	No	No	No	3 mm	Inside	No	No
P3506P006	F2	No	No	No	3 mm	Inside	No	No
P3506P007	F2	No	No	No	3 mm	Inside	No	No
P3506P008	F2	No	No	No	3 mm	Inside	No	No
P3506P009	F2	No	No	No	3 mm	Inside	No	No
P3507P001	F2	No	No	No	3 mm	Inside	No	No
P3507P002	F2	No	No	No	3 mm	Inside	No	No
P3507P003	F2	No	No	No	3 mm	Inside	No	No
P3507P004	F2	No	No	No	3 mm	Inside	No	No
P3507P005	F2	No	No	No	3 mm	Inside	No	No
P3507P006	F2	No	No	No	3 mm	Inside	No	No
P3507P007	F2	No	No	No	3 mm	Inside	No	No
P3507P008	F2	No	No	No	3 mm	Inside	No	No
P3507P009	F2	No	No	No	3 mm	Inside	No	No
F 6: 29								

Remark: An above is a portion extracted for presentation purpose the full schedule of panels included in the BIM model.



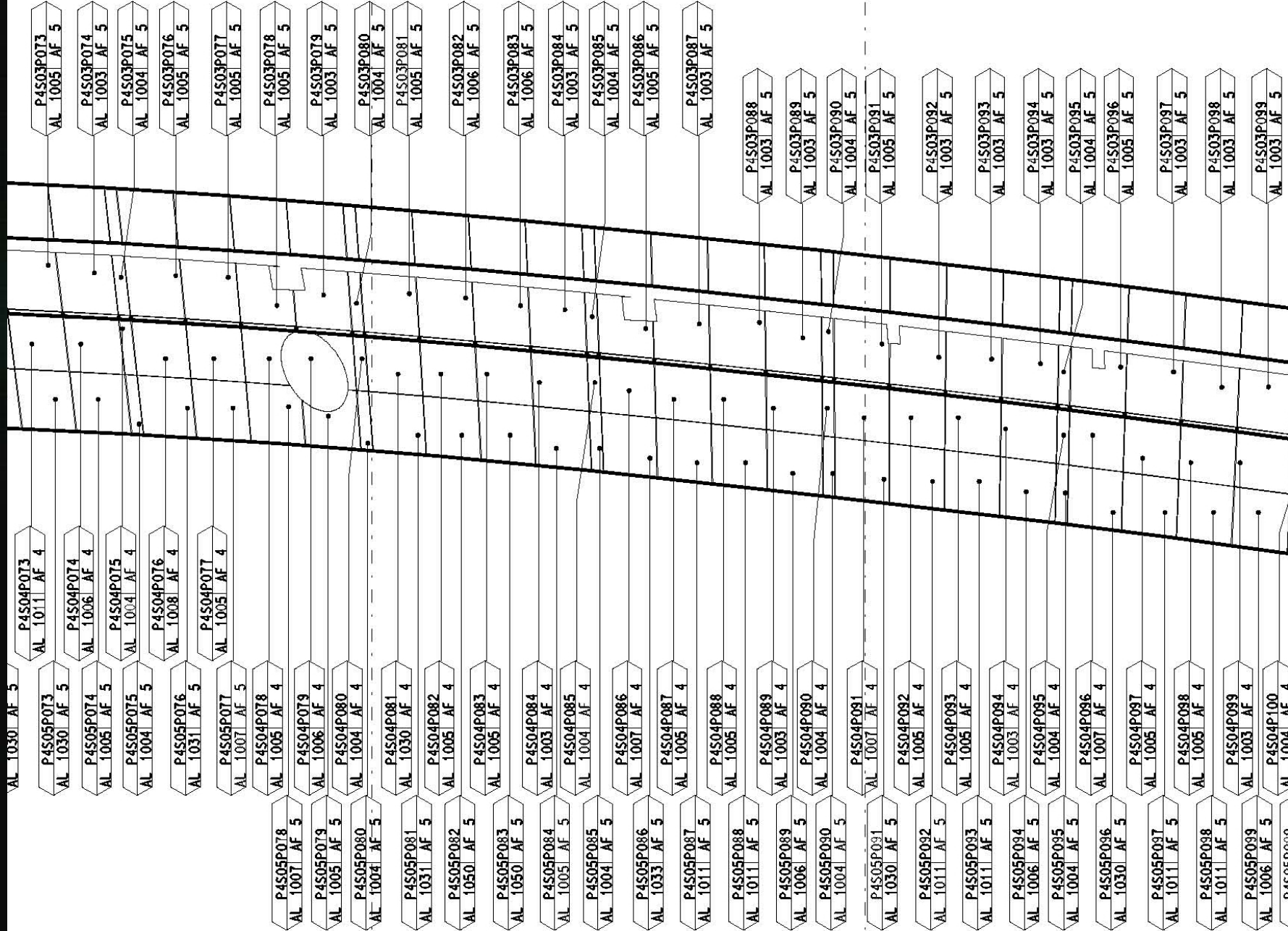
Panel P3S01P004  
Edge 1 ..... 1488 mm  
Edge 2 ..... 2279 mm  
Edge 3 ..... 1476 mm  
Edge 4 ..... 2279 mm  
Diagonal ..... 2720 mm  
Group(Size) .... A 1  
Group(Finish)... F 1

Panel P3S04P001  
Edge 1 ..... 1460 mm  
Edge 2 ..... 2042 mm  
Edge 3 ..... 1445 mm  
Edge 4 ..... 2042 mm  
Diagonal ..... 2508 mm  
Group(Size) .... A 13  
Group(Finish)... F 2









## INSTITUTIONS



The University of Hong Kong  
Knowledge Exchange



HKUSPACE *Community*  
*College* 香港大學附屬學院



香港中文大學  
The Chinese University of Hong Kong



CUSCS  
香港中文大學專業進修學院  
School of Continuing and Professional Studies  
The Chinese University of Hong Kong



珠海學院  
CHU HAI COLLEGE  
OF HIGHER EDUCATION



THE HONG KONG  
POLYTECHNIC UNIVERSITY  
香港理工大學

School of Professional Education  
and Executive Development  
專業進修學院

SPEED 





**THANK YOU**