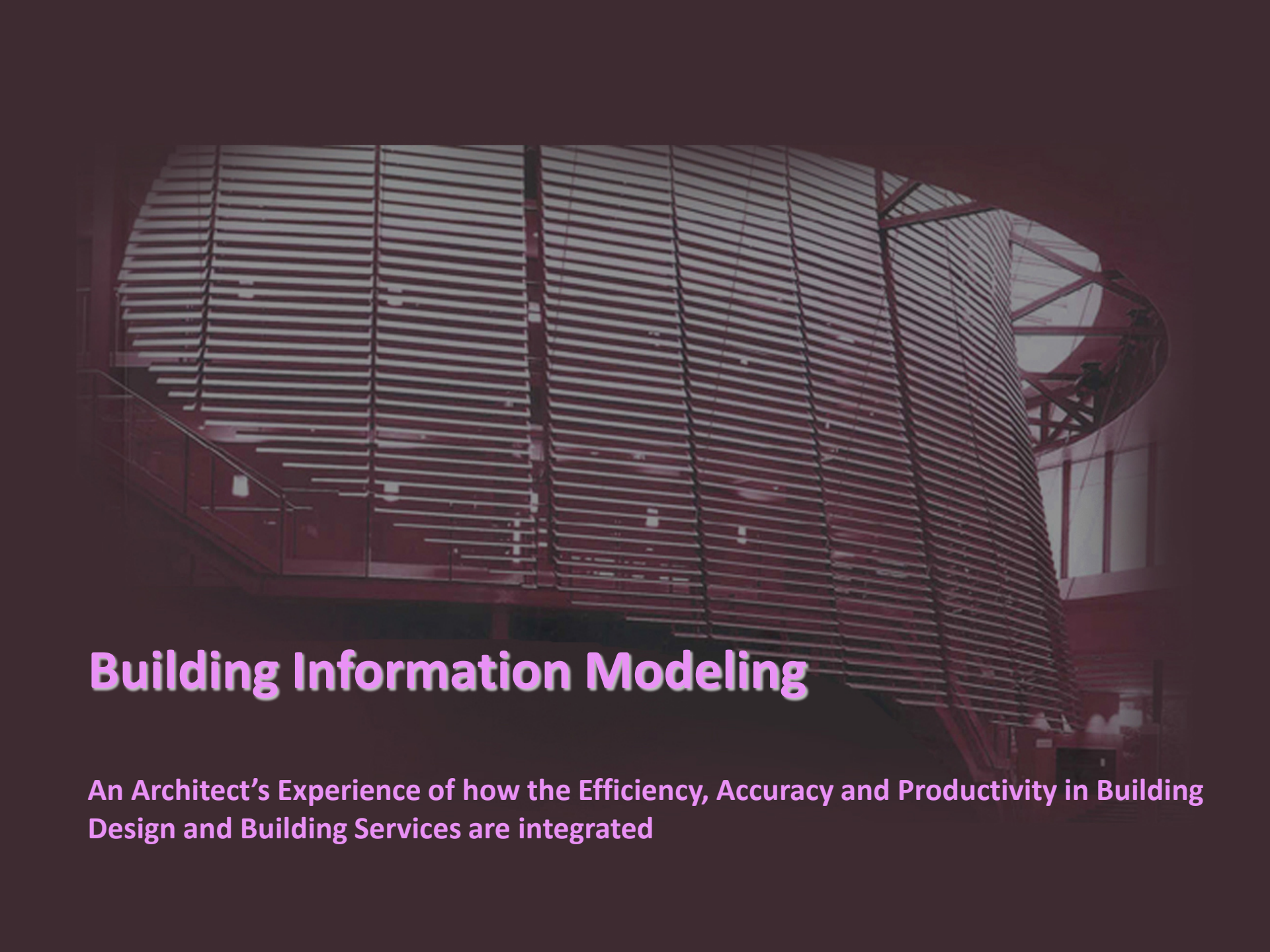
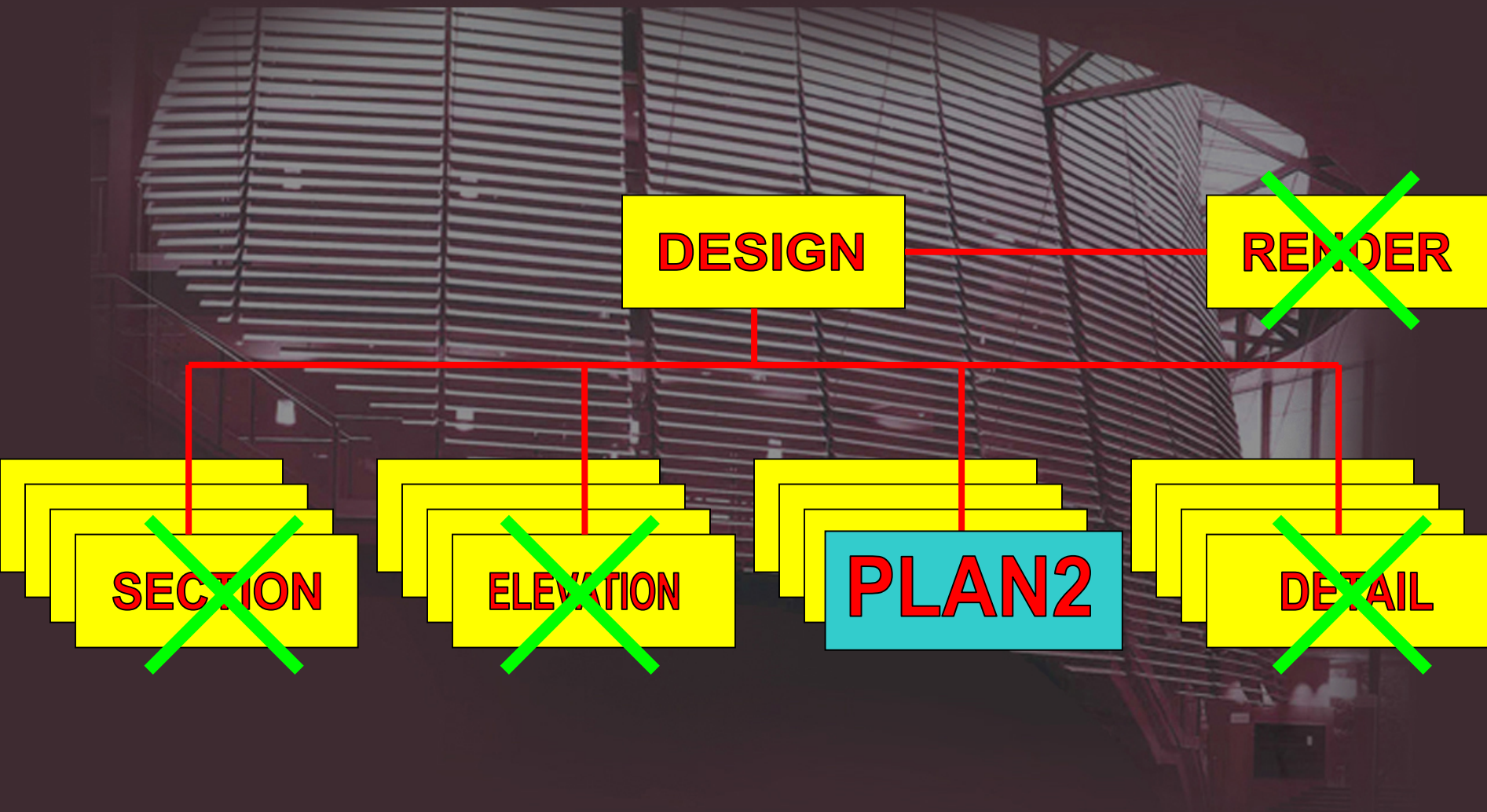


The background image shows a modern architectural structure. It features a large, curved facade made of horizontal metallic slats or louvers. To the right, there's a section with large glass windows. The overall color scheme is a monochromatic reddish-brown. The text is overlaid on the lower part of the image.

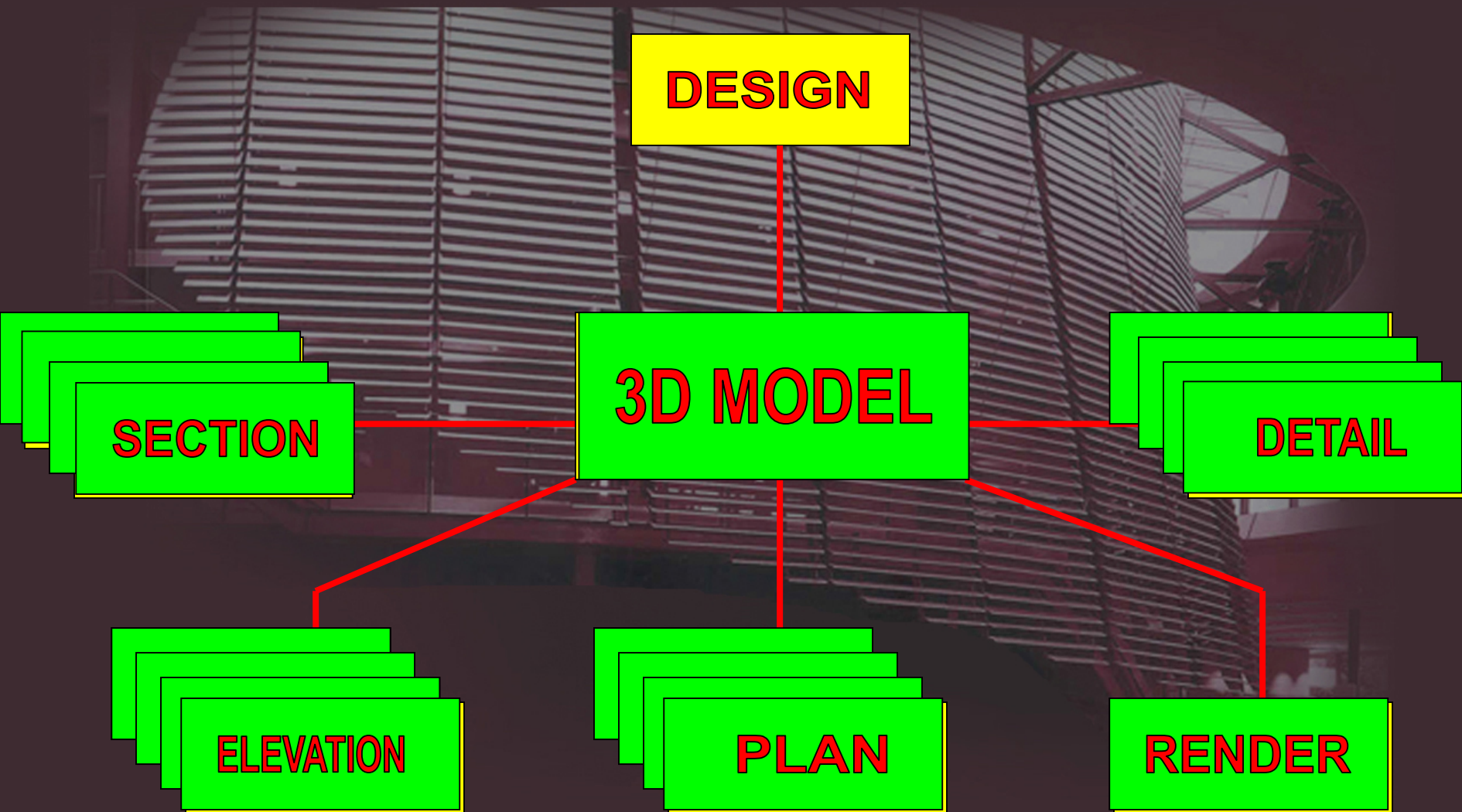
Building Information Modeling

An Architect's Experience of how the Efficiency, Accuracy and Productivity in Building Design and Building Services are integrated

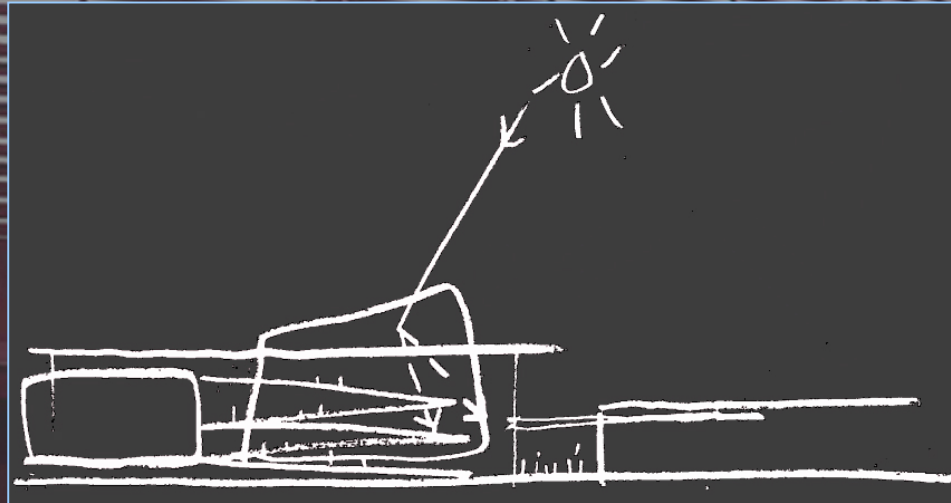
EXISTING DRAWING PRACTICE



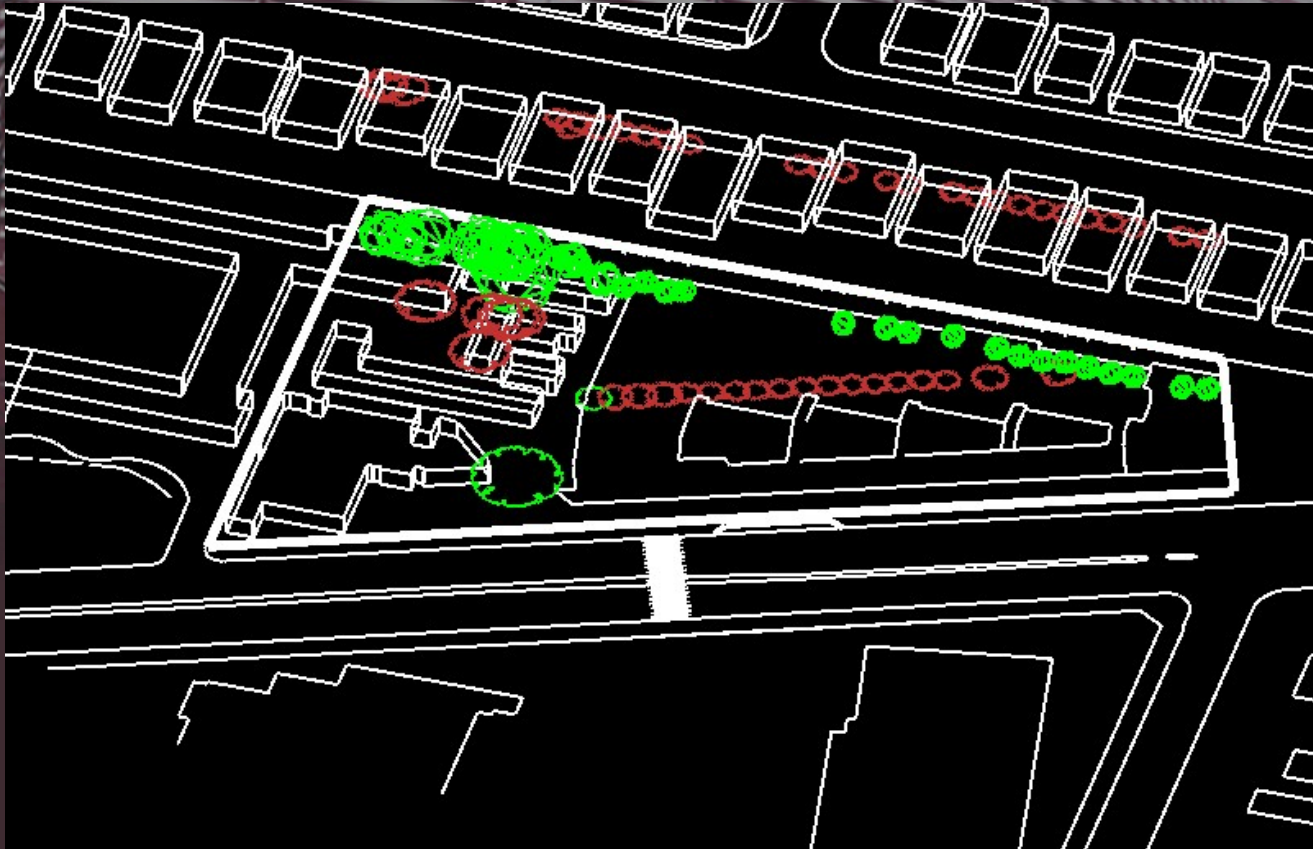
3D DRAWING CONCEPT



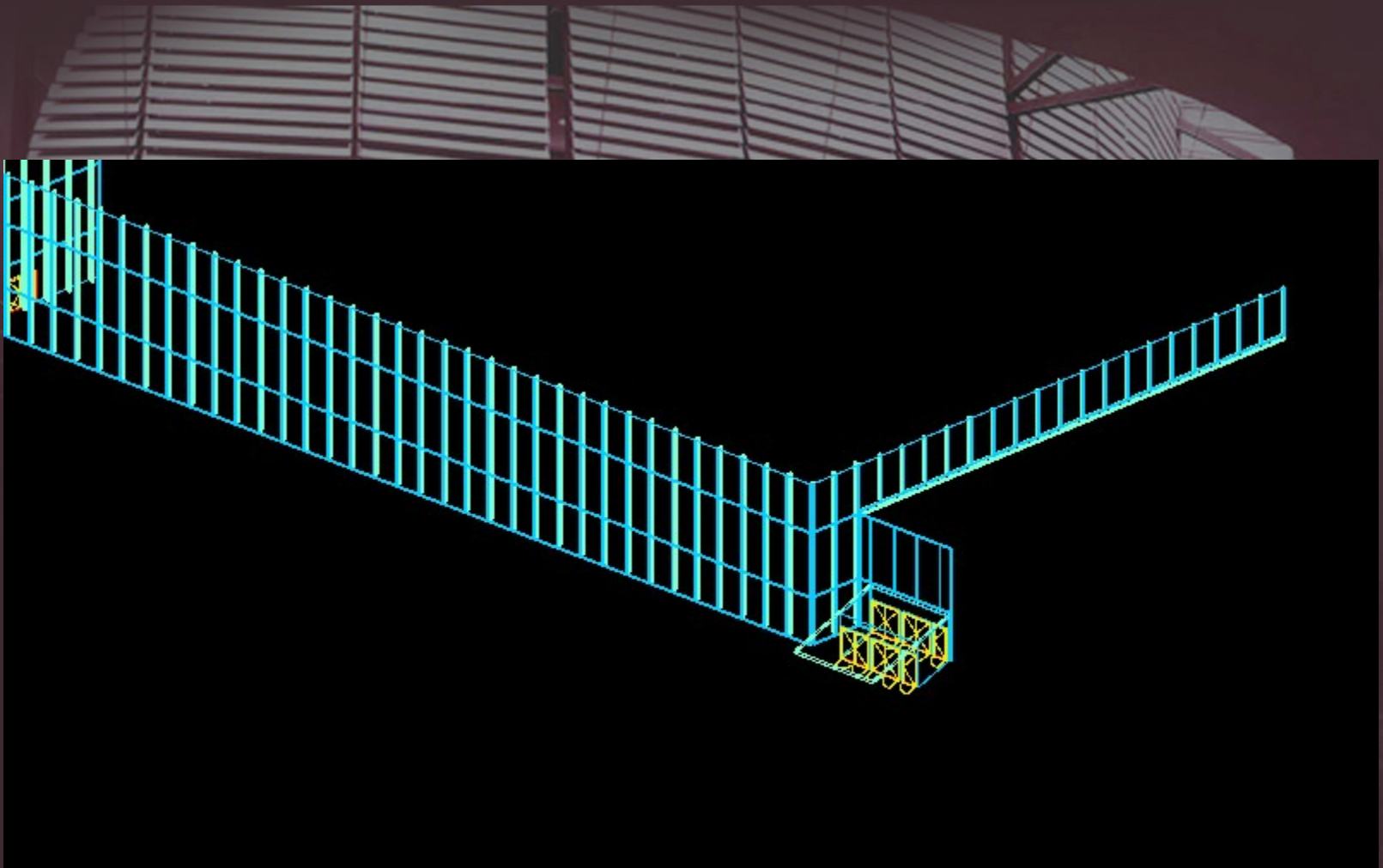
NATIONAL INSTITUTE OF DRAMATIC ARTS (NIDA) SYDNEY, AUSTRALIA



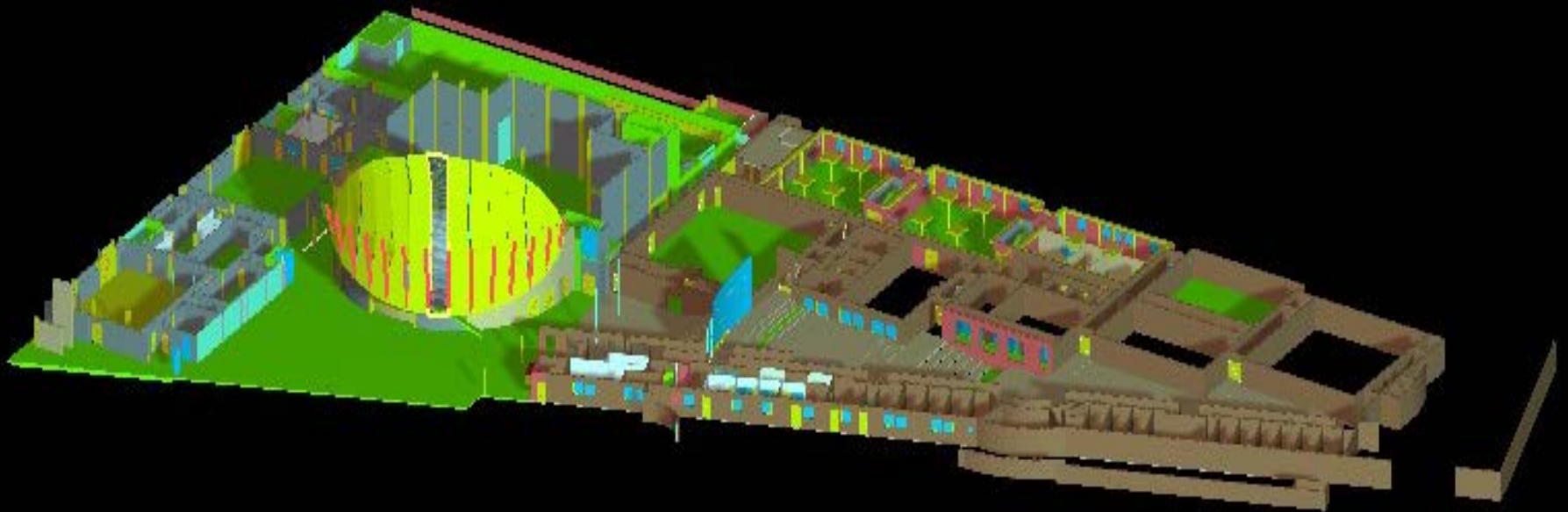
3D SITE



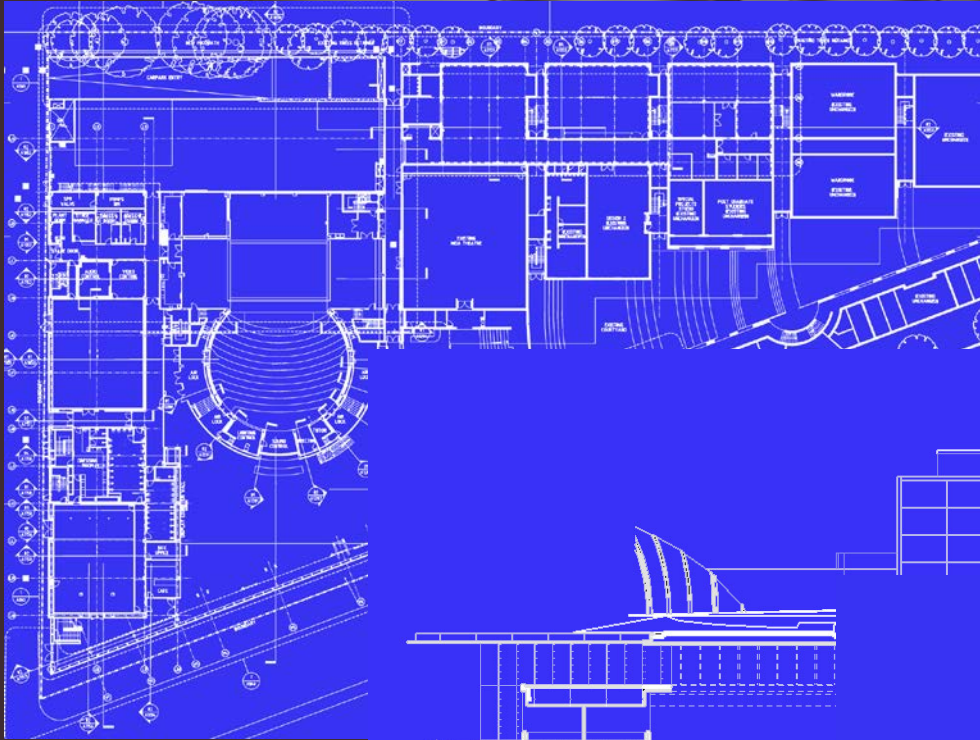
DESIGN IN 3D



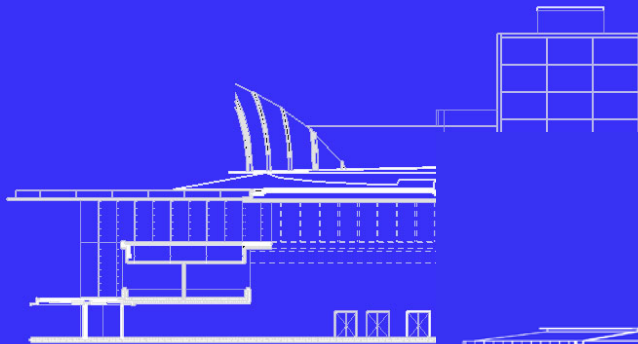
BUILDING 3D MODEL



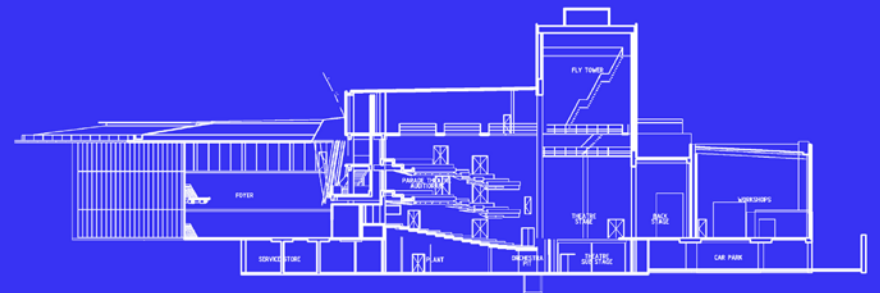
SELF-GENERATED ...



PLANS



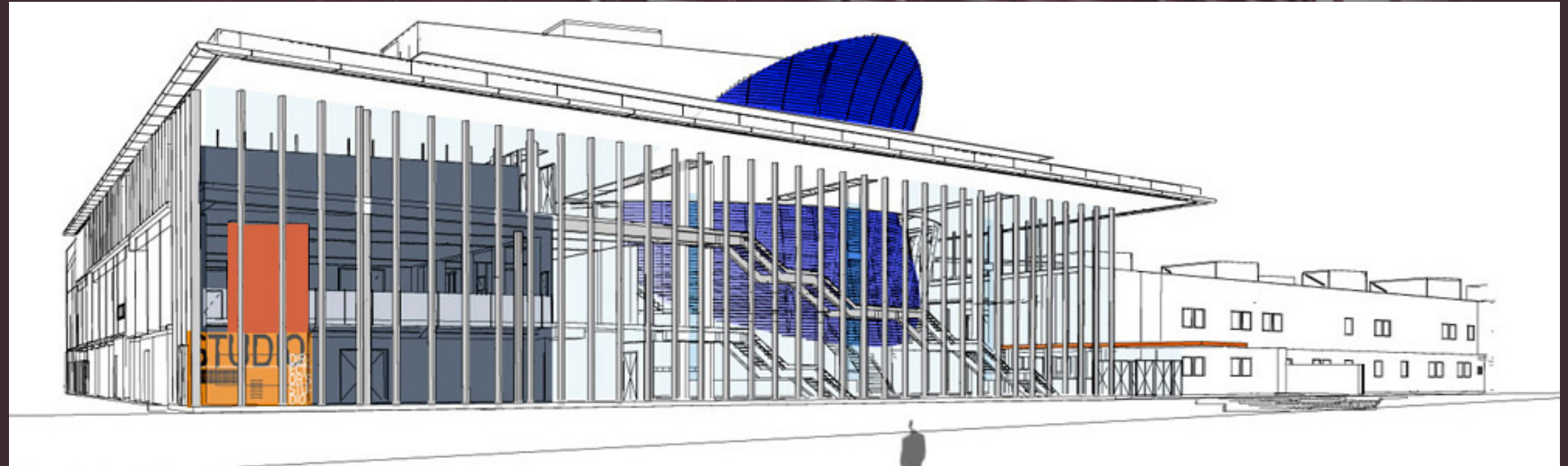
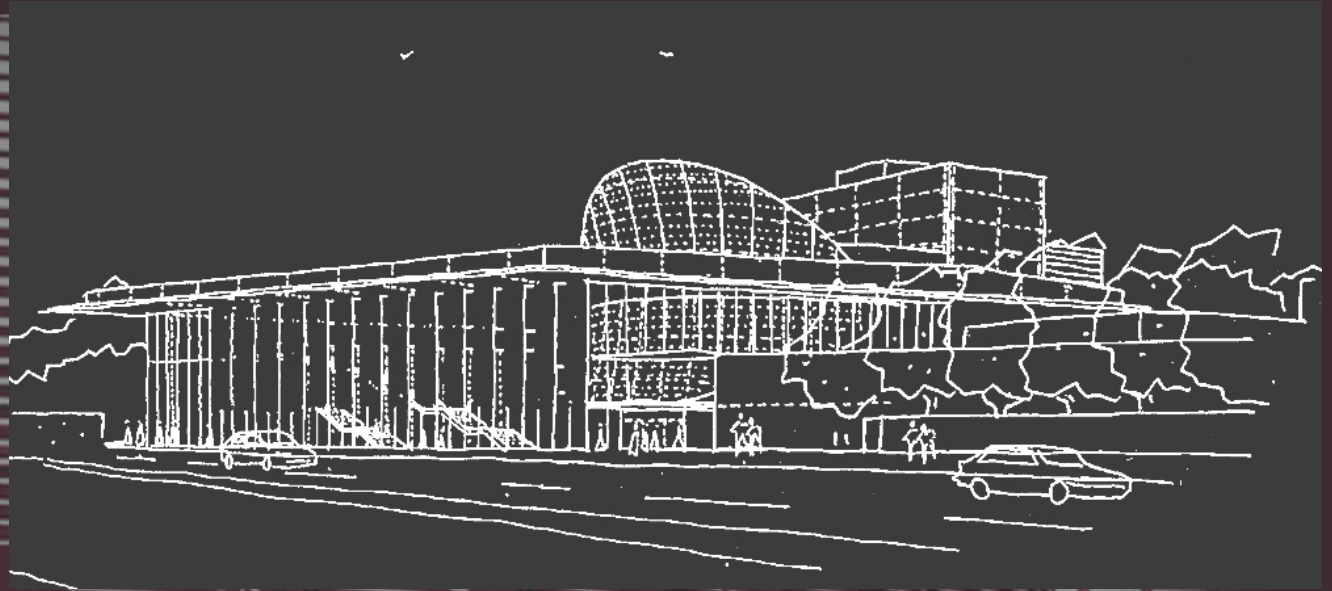
ELEVATIONS



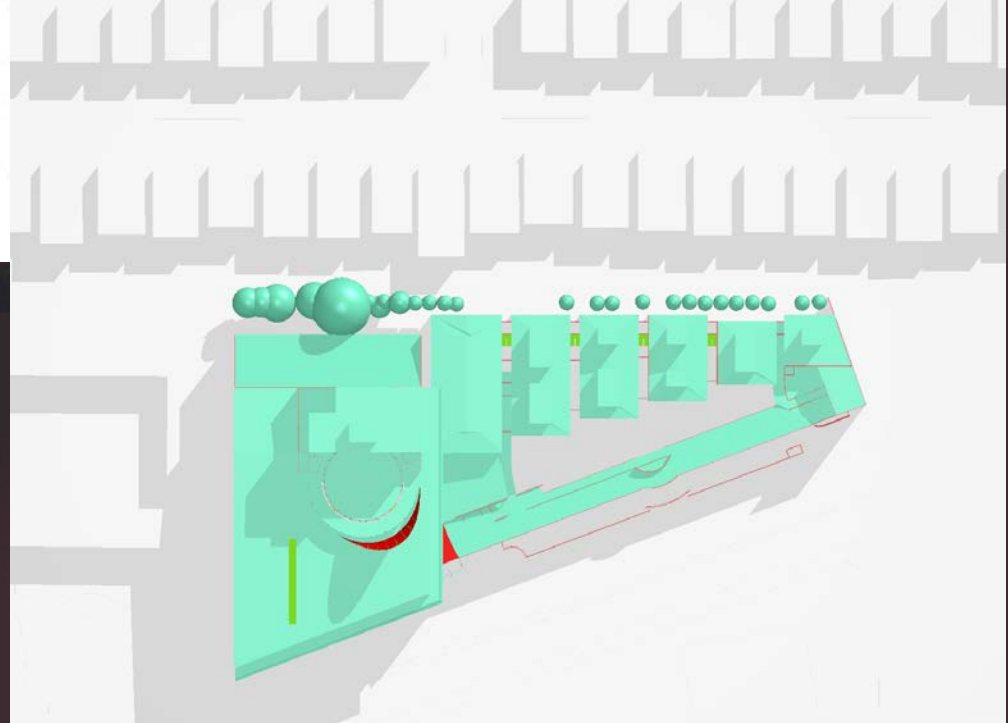
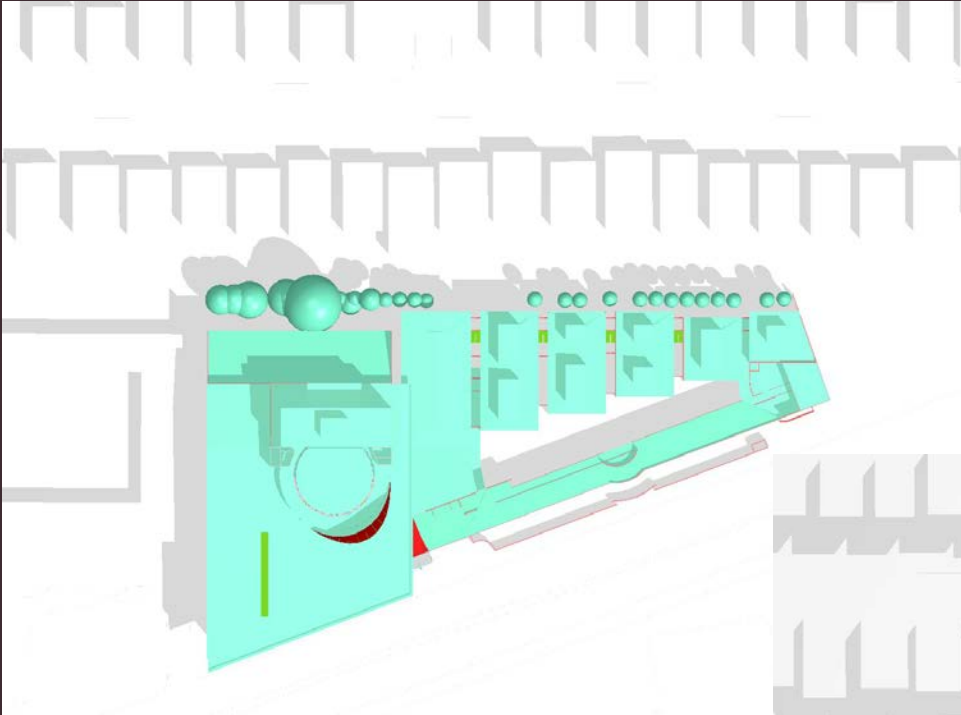
SECTIONS



GENERATED PERSPECTIVES



SHADOW ANALYSIS



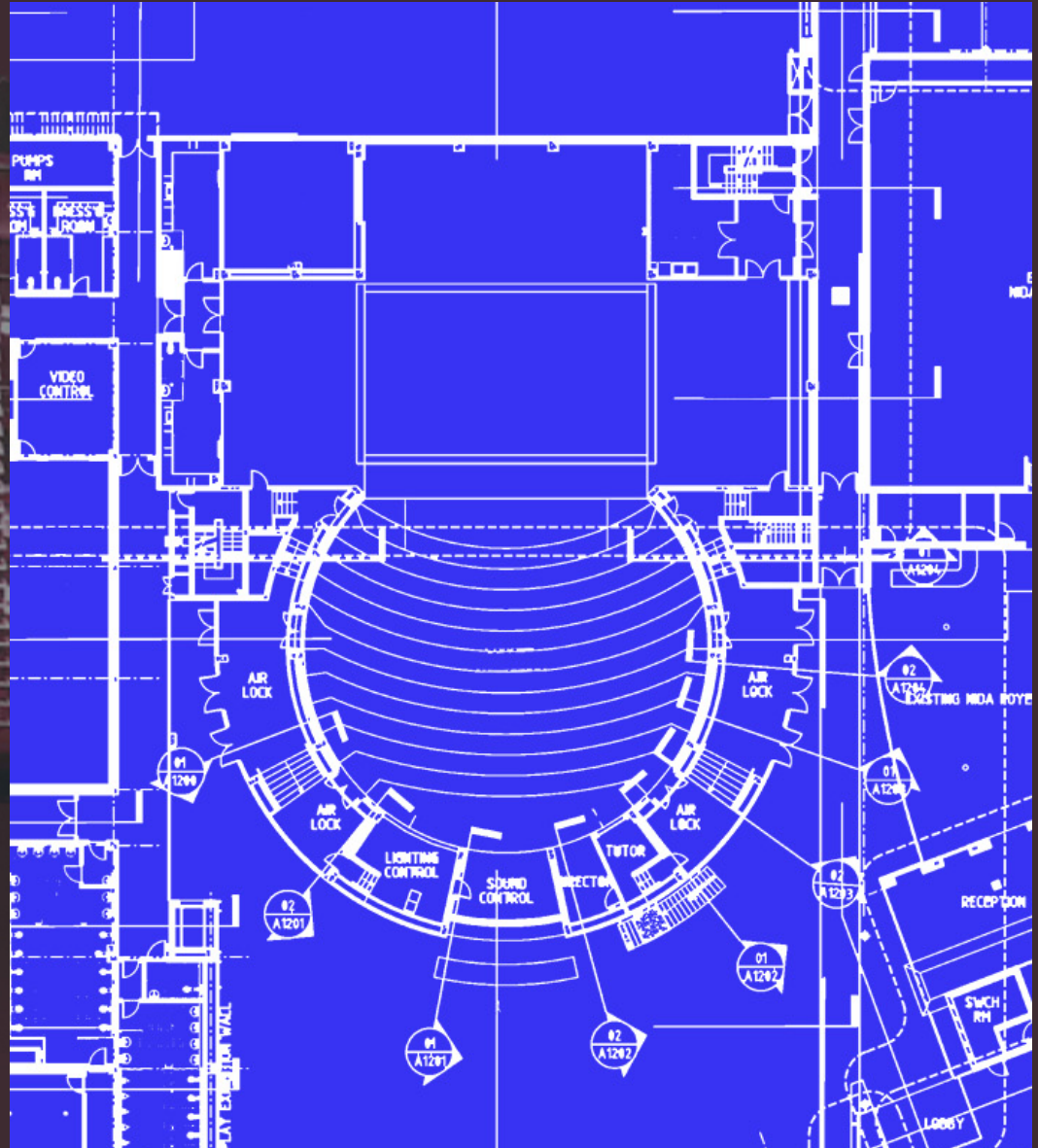
SAME MODEL RENDERING



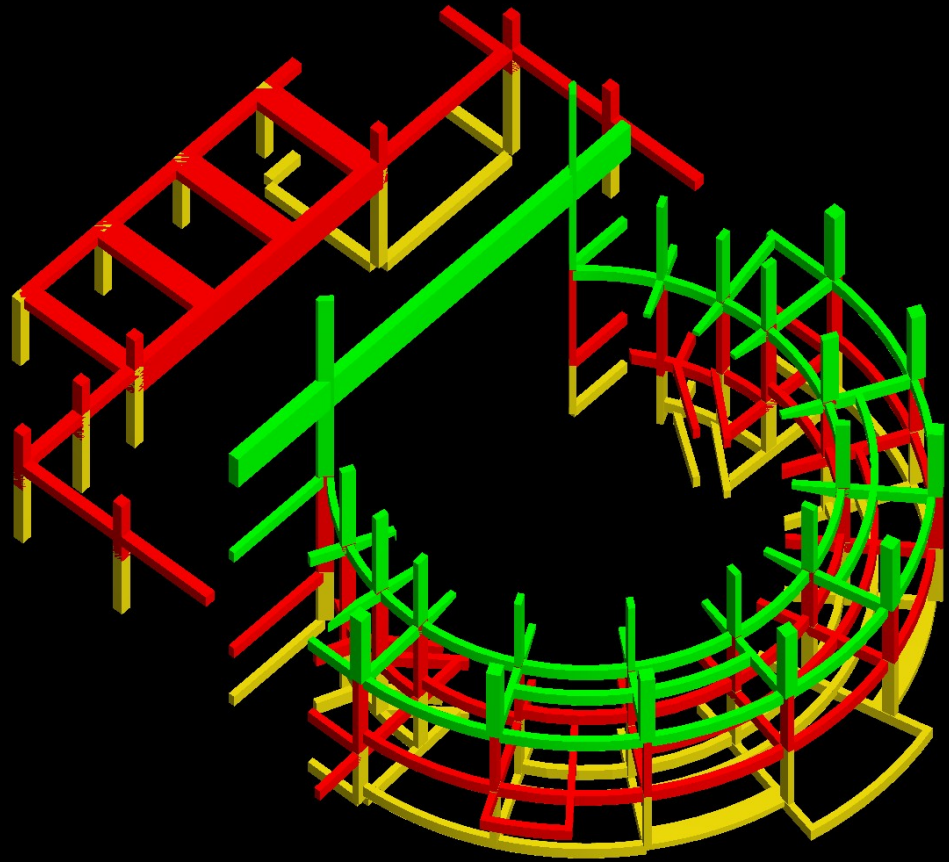
COMPLETED PROJECT



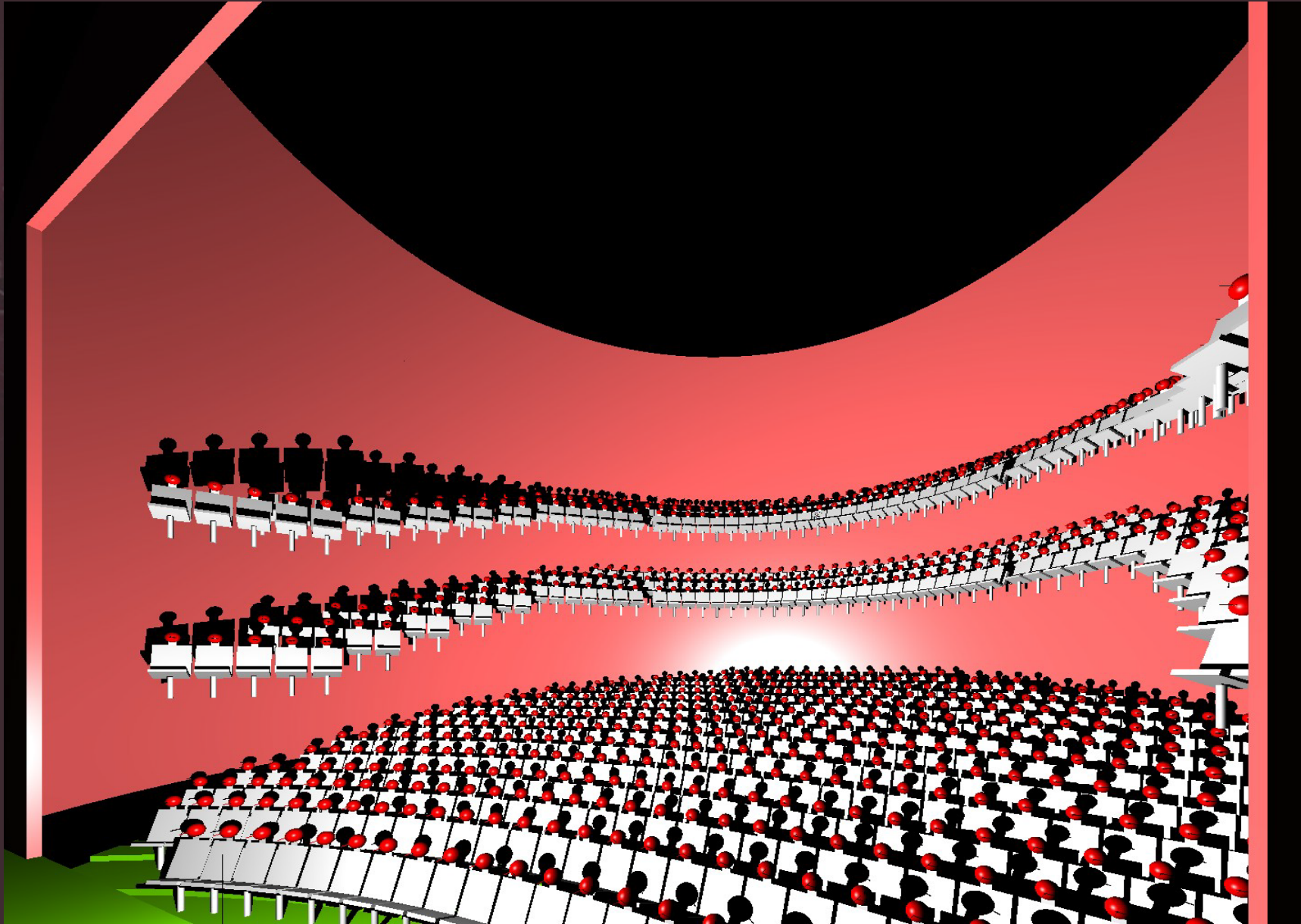
THEATRE DESIGN



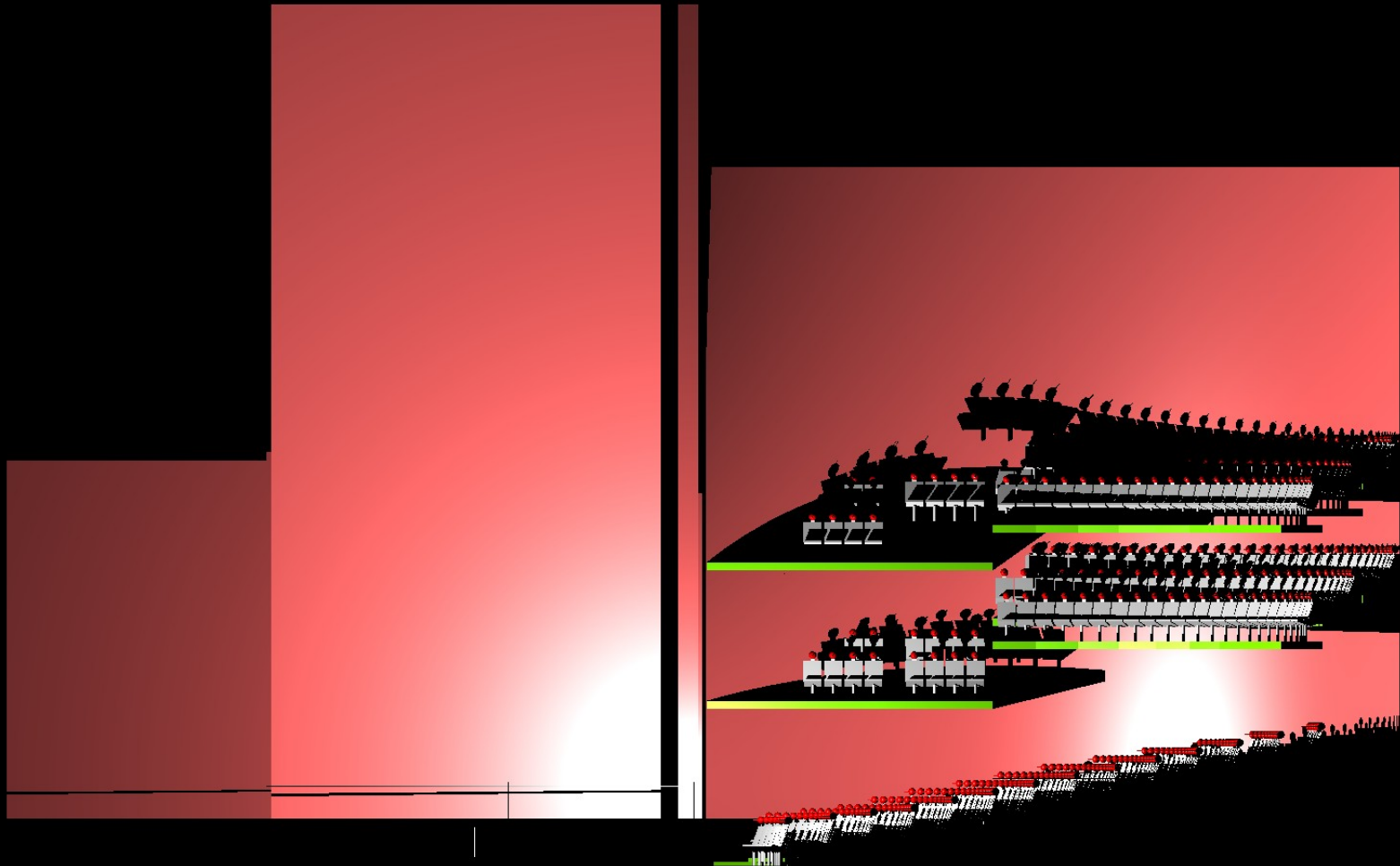
STRUCTURAL ANALYSIS



SIGHTLINE ANALYSIS



SIGHTLINE ANALYSIS



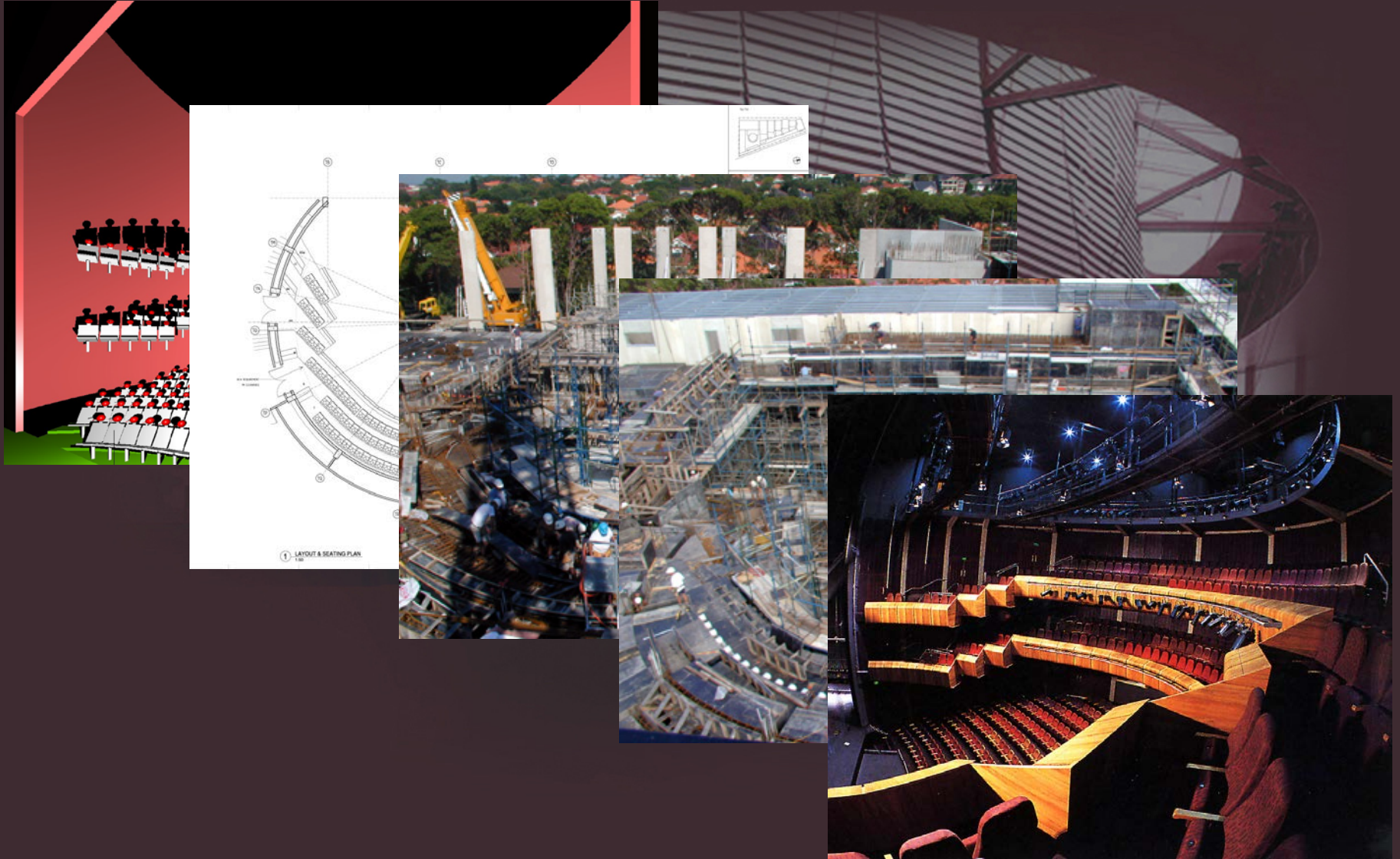
THEATRE



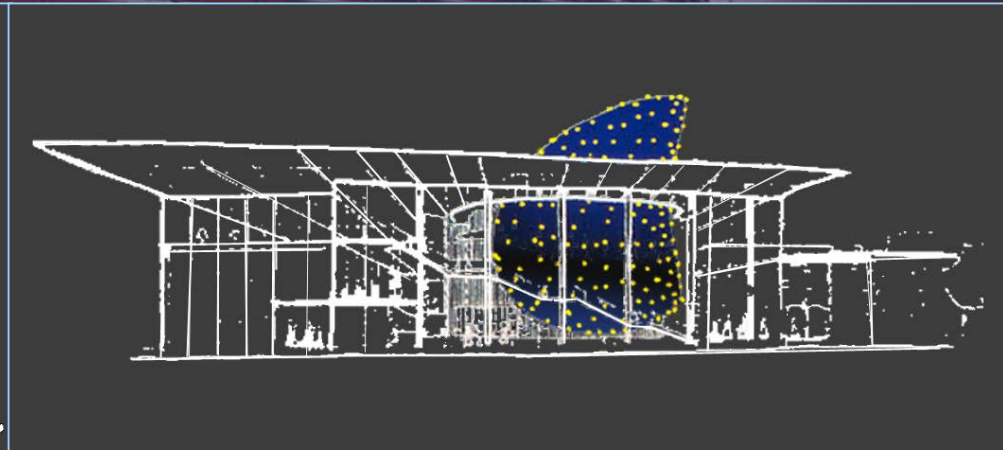
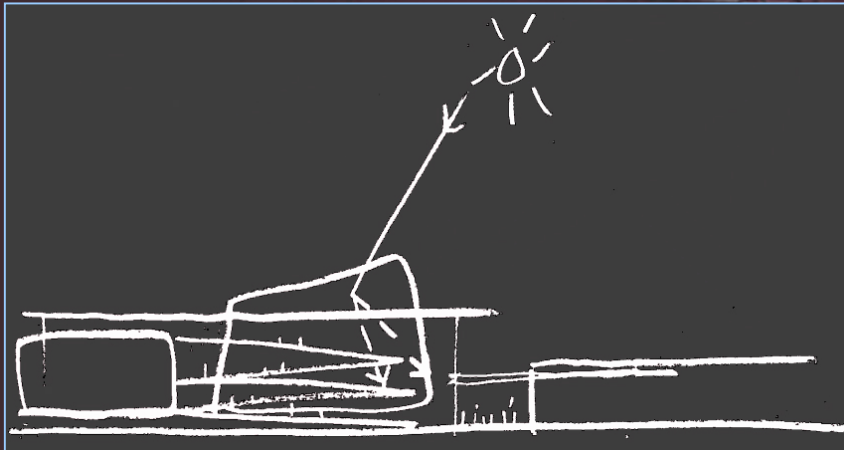
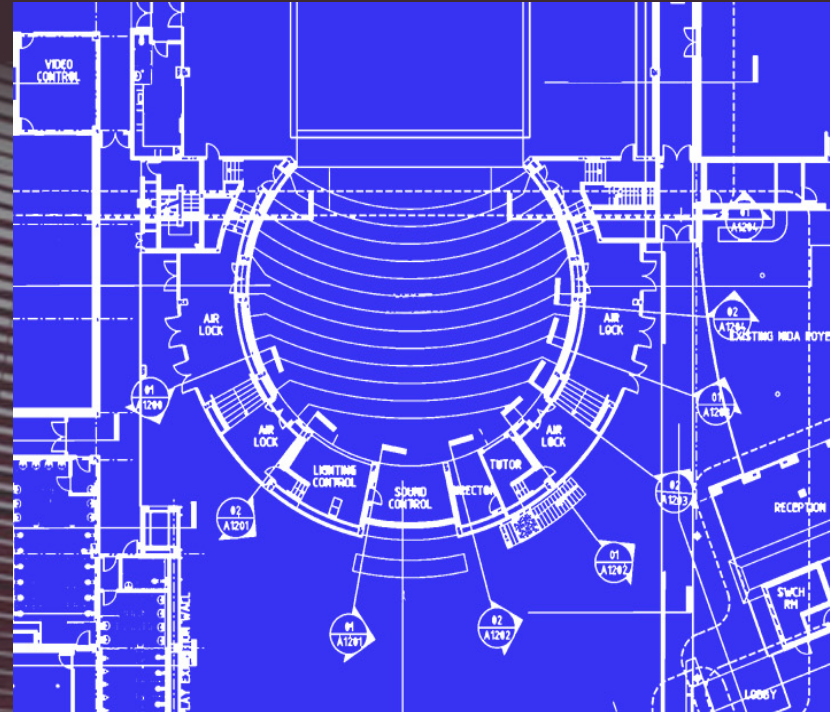
THEATRE



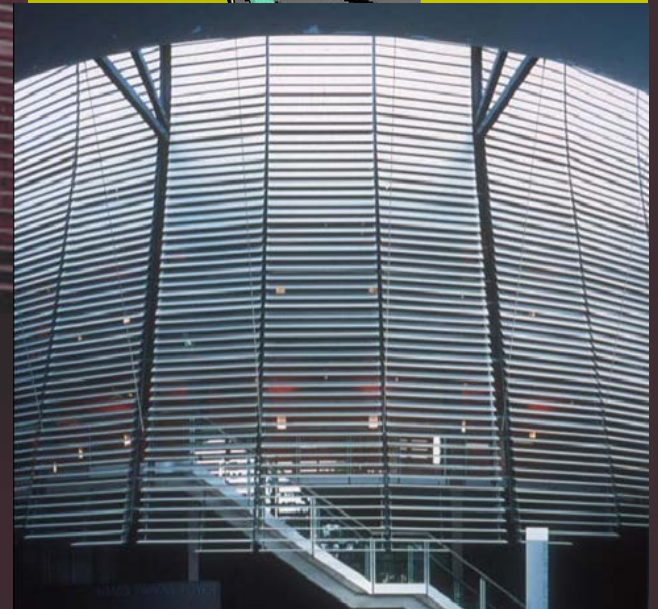
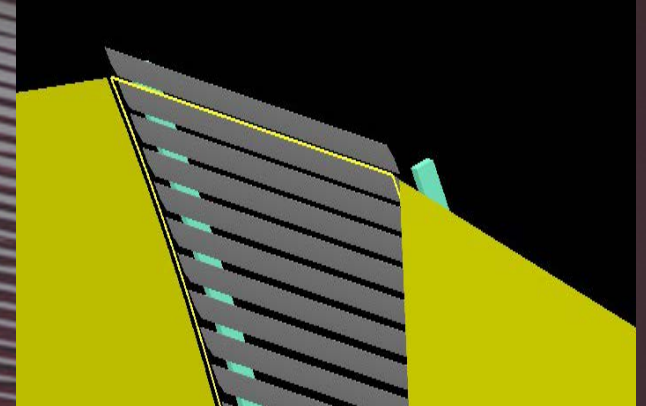
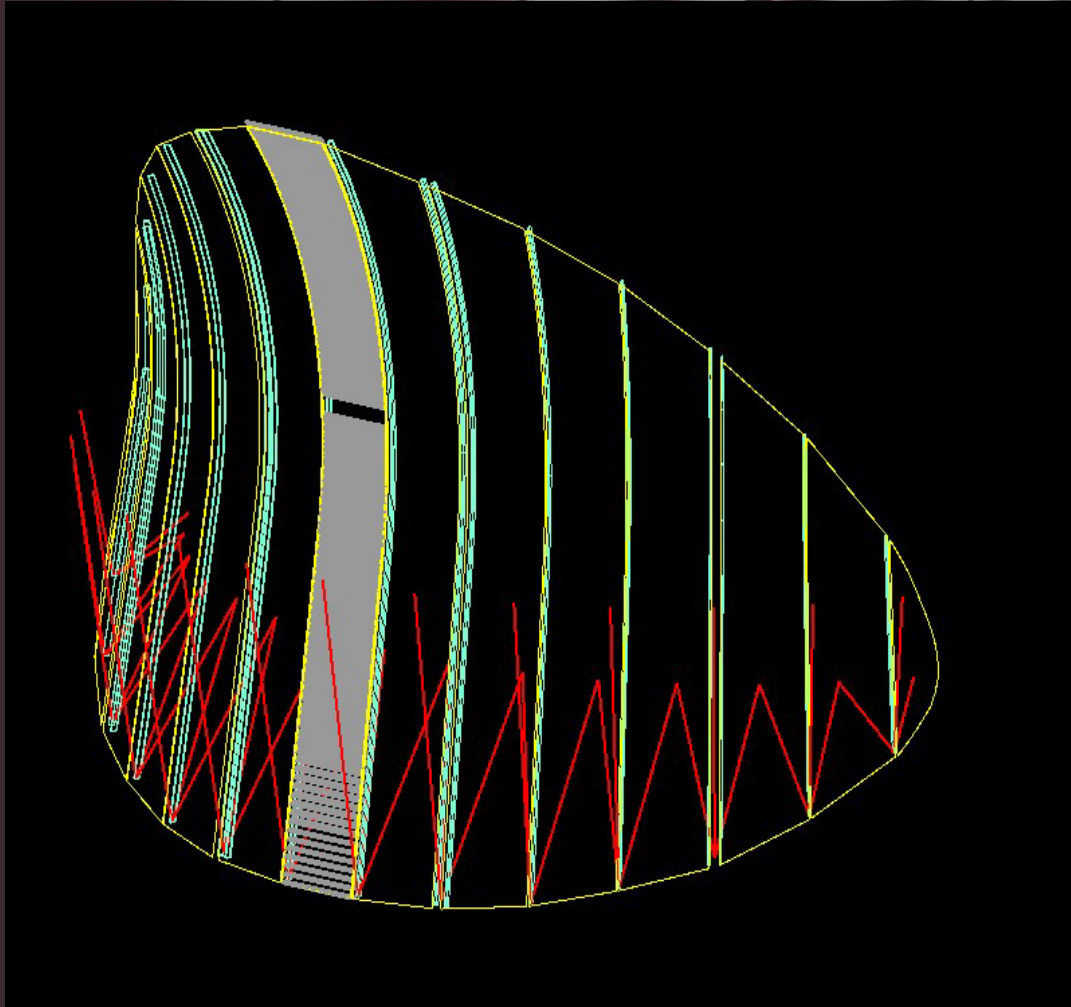
DESIGN – DOCUMENTATION – CONSTRUCTION

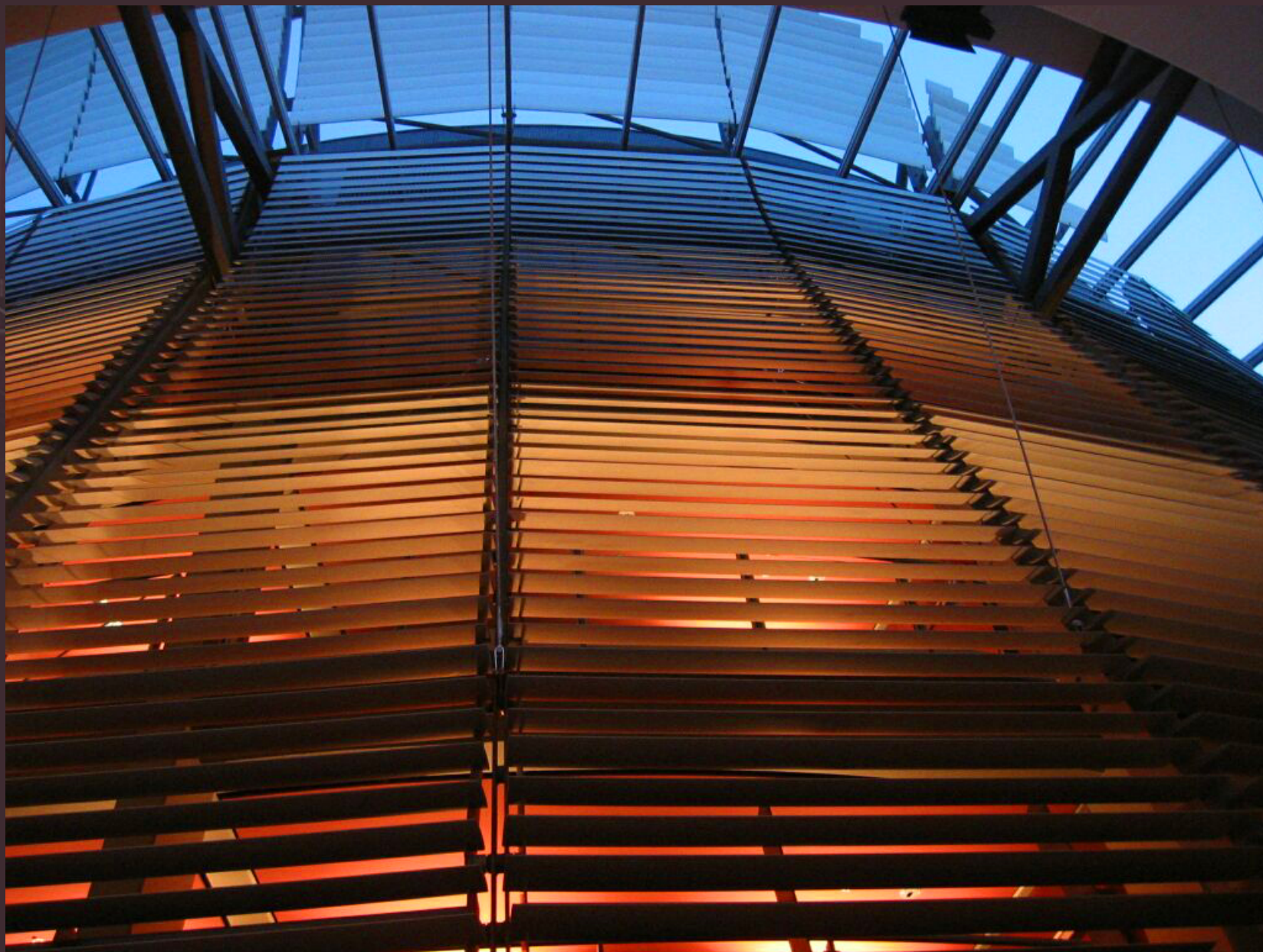


VEIL – SCIENTIFICALLY DERIVED CURVATURE



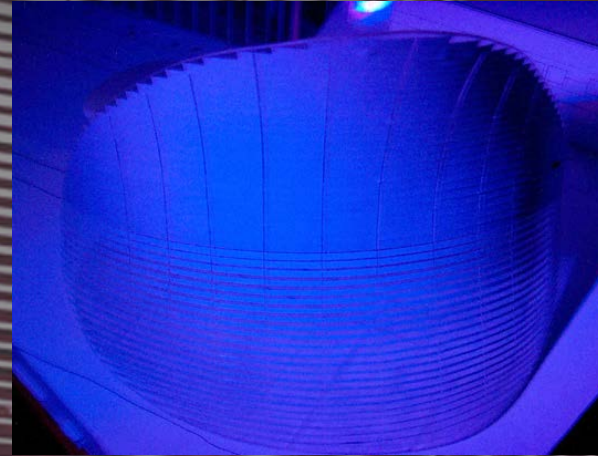
VEIL – COMPLICATED GEOMETRY







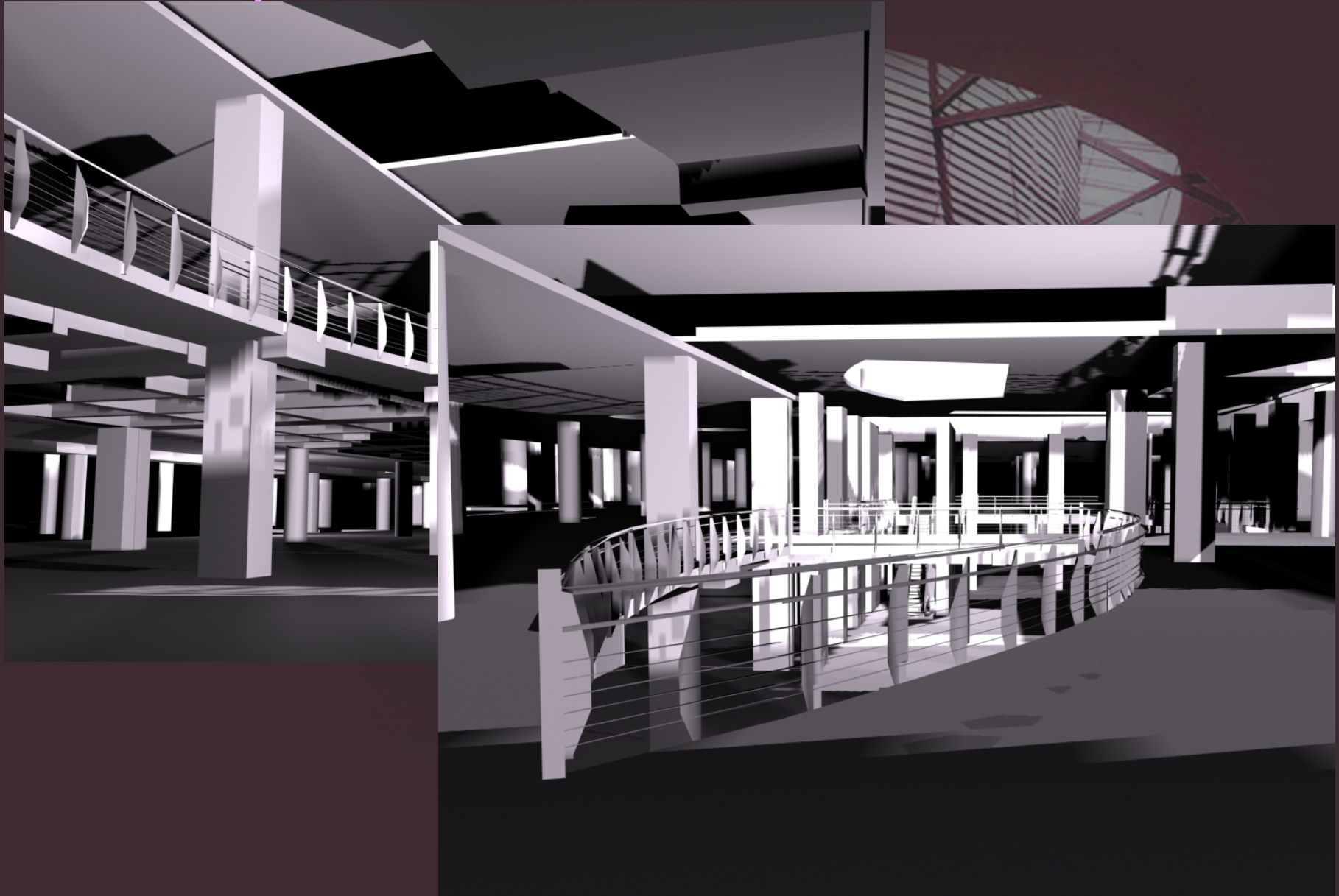
NIGHT SCENE







Other Projects



Other Projects

社會服務大樓舊翼

院友寢室, 洗手間及淋浴設施
護理站
護理室/休息室
殘疾人士洗手間和淋浴間
客廳
飯廳

康復治療室
運動室
感觀功能訓練室
康復治療室
運動室
茶水間
廚房
廚房儲物室

社會服務大樓新翼

社會服務部中央行政處及院舍辦事處
會客室
會議室
日間護理中心辦公室

隔離房間
男/女職員更衣室
職員休息室

院友寢室連浴室套廁
護理站
護理室/休息室
殘疾人士洗手間和淋浴間
客廳
飯廳
多用途/小組活動室

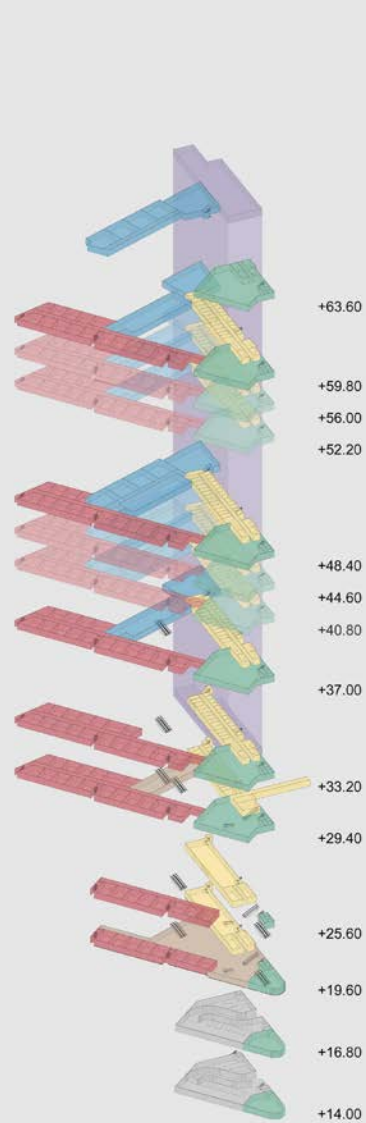
院友寢室連浴室套廁
護理站
護理室/休息室
殘疾人士洗手間和淋浴間
客廳
飯廳
多用途/小組活動室

接待處
大禮堂
公用男/女洗手間
洗衣房
電壓房
儲物室
清潔設備室
排污設備室
消防水缸
停車場

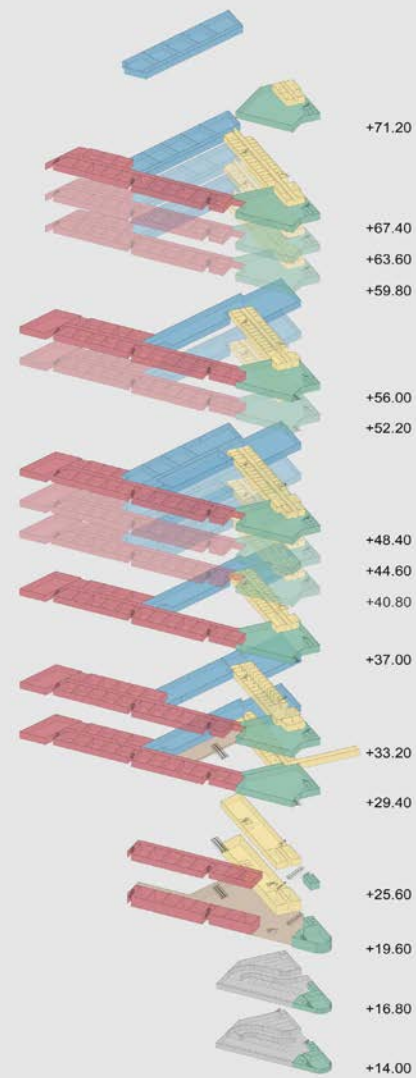
Other Projects



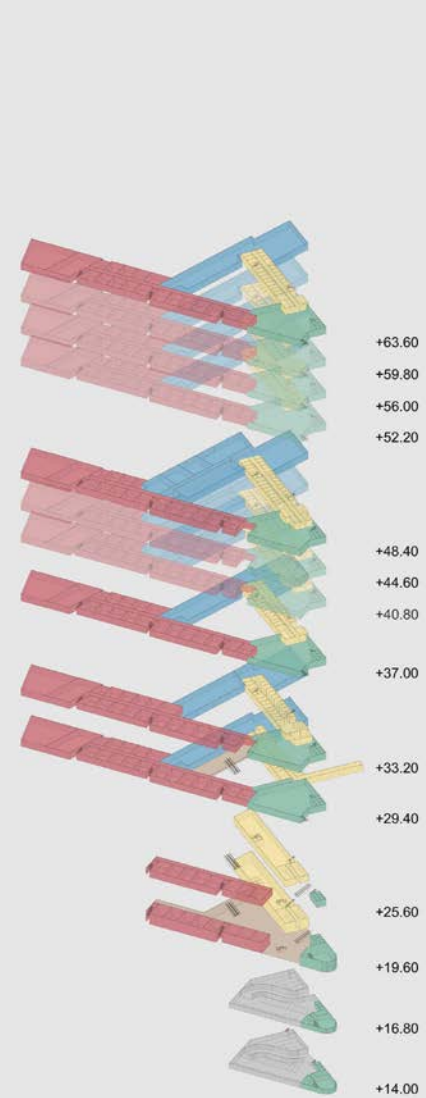
OPTION 1: ANNEX



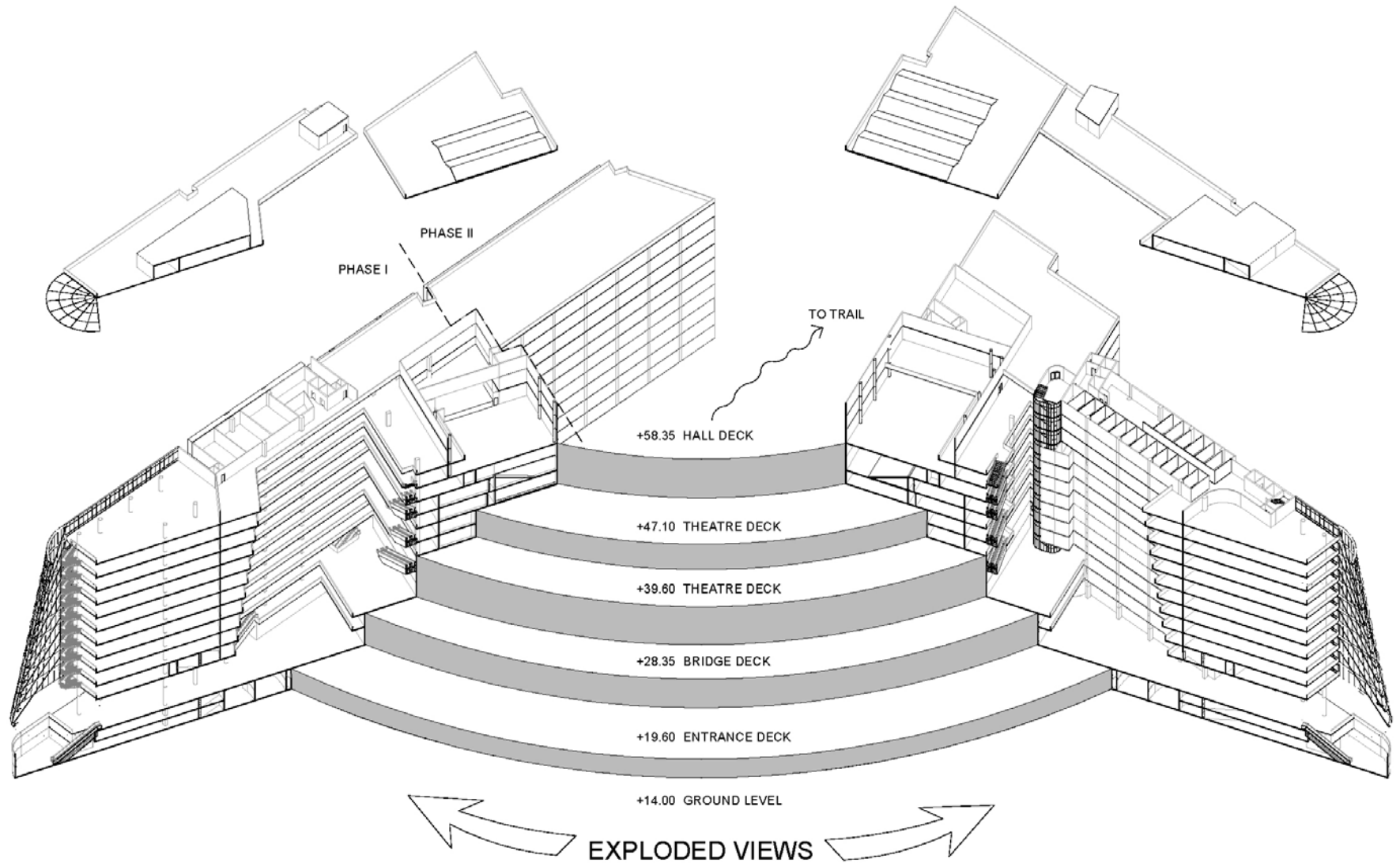
OPTION 2: HEIGHT RELAXA*



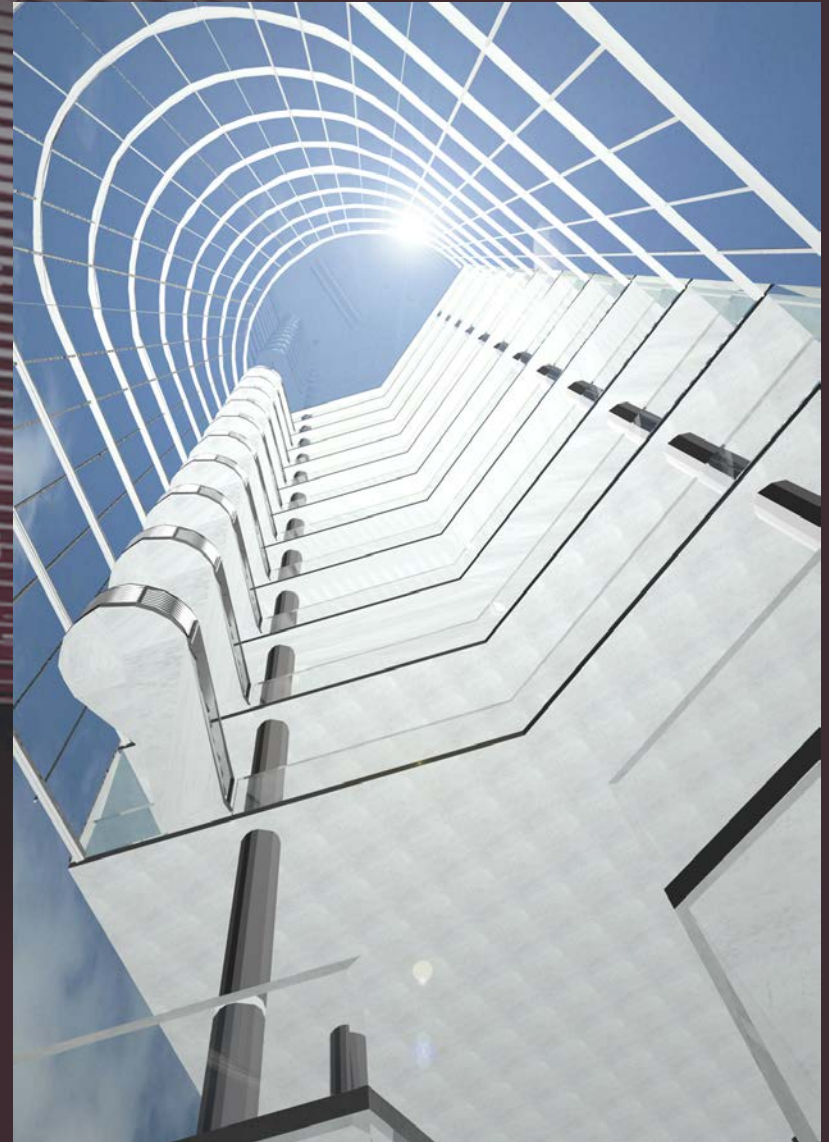
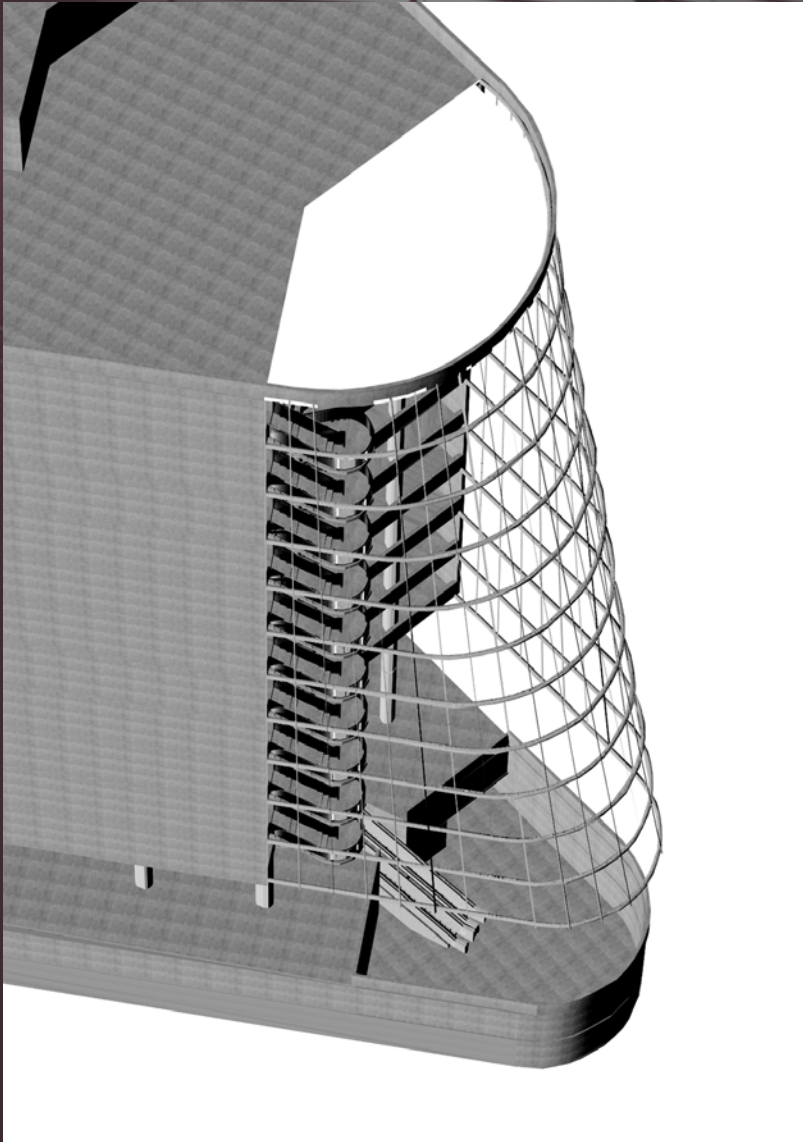
OPTION 3: FULL FRONTAGE



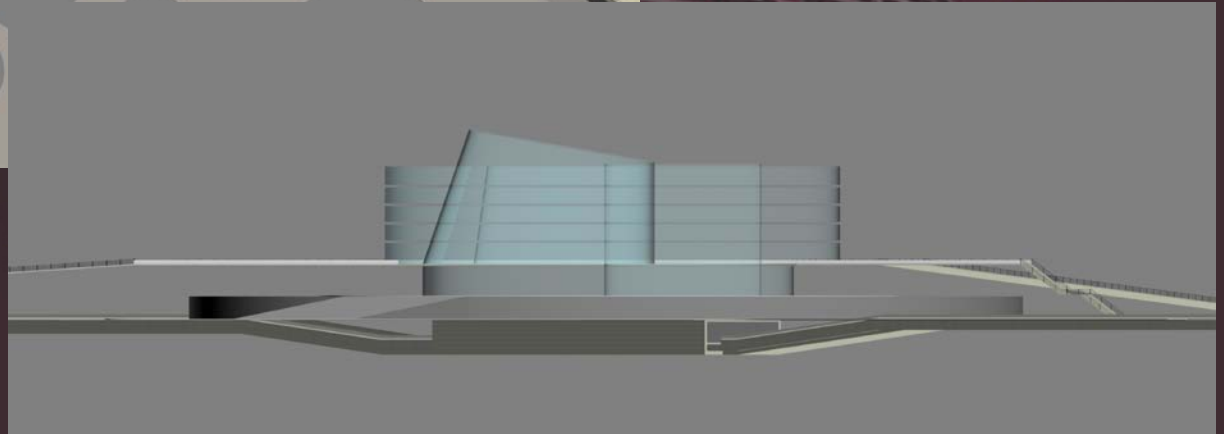
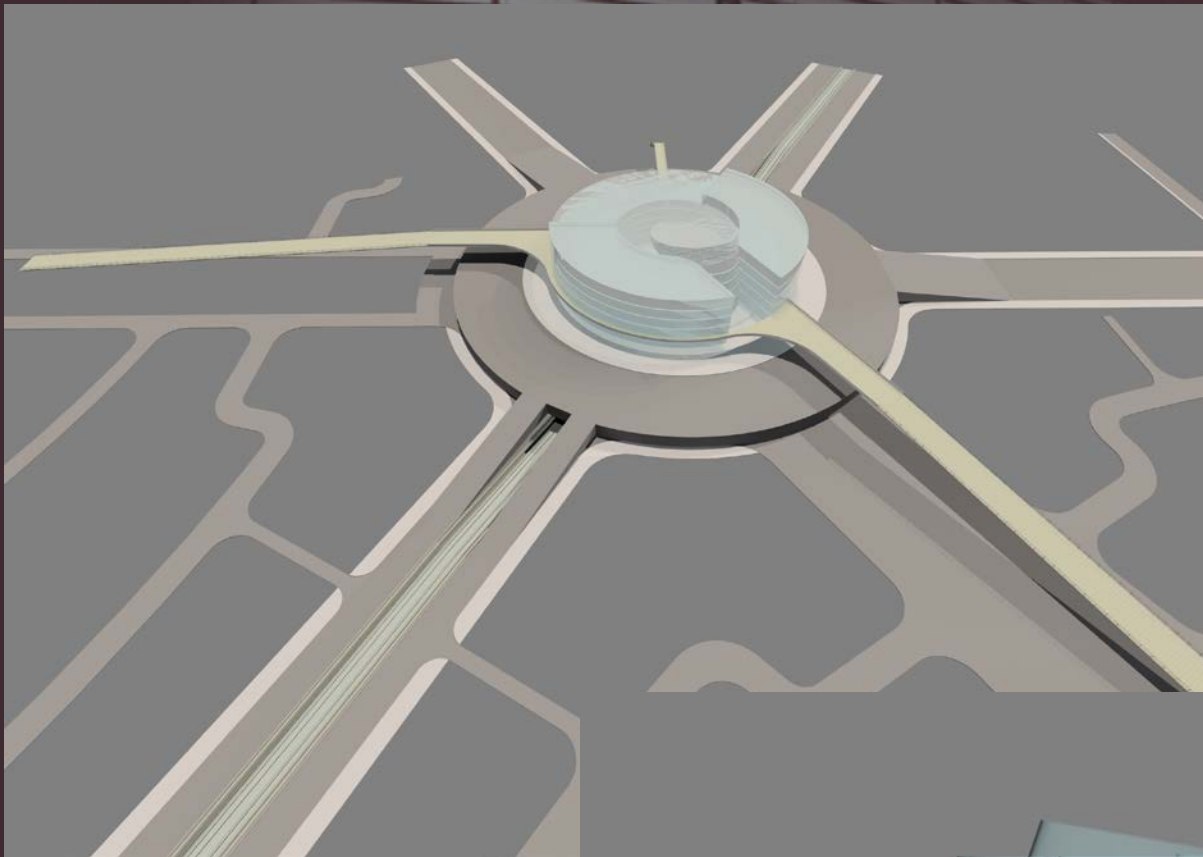
Other Projects



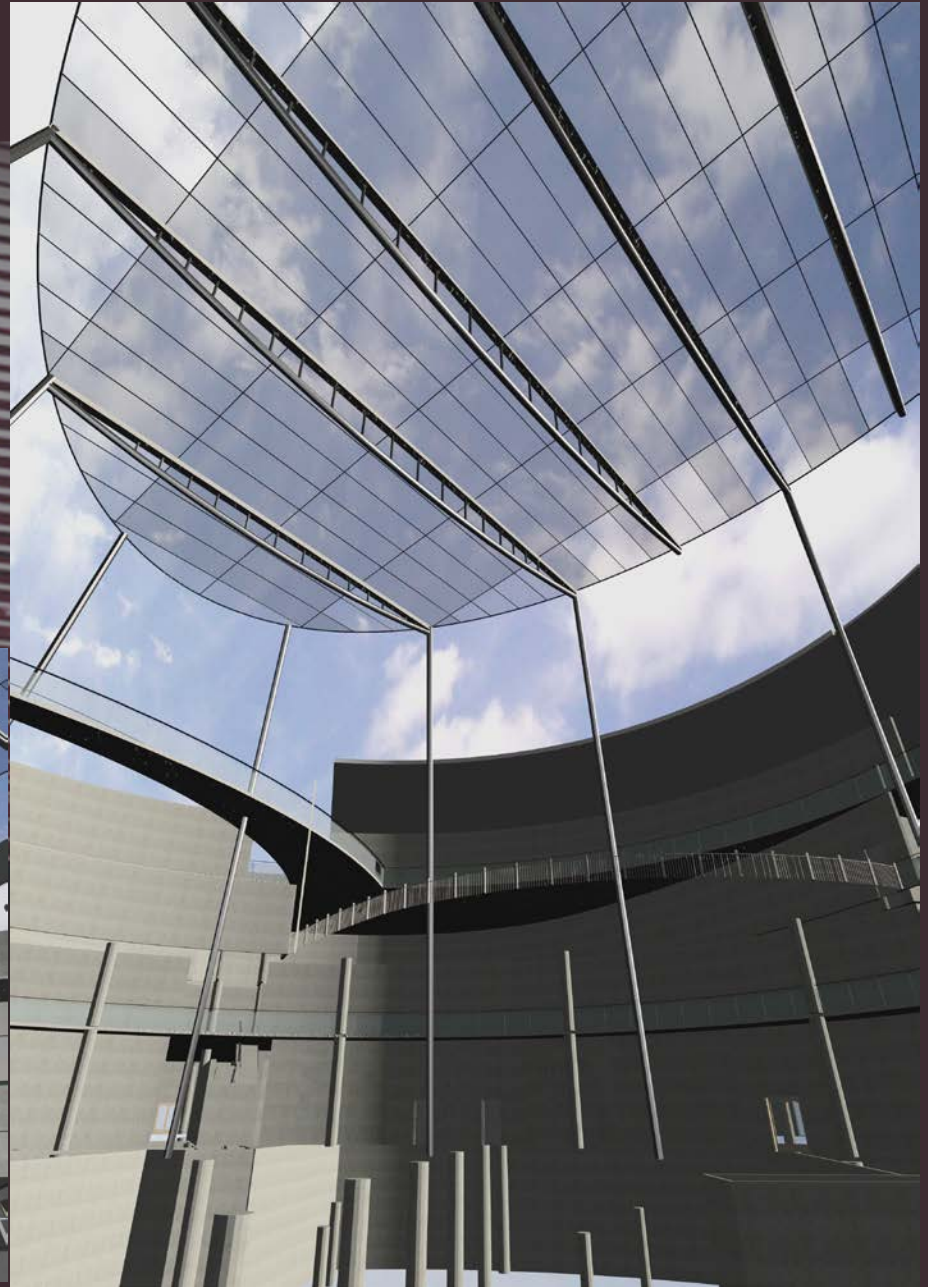
Other Projects



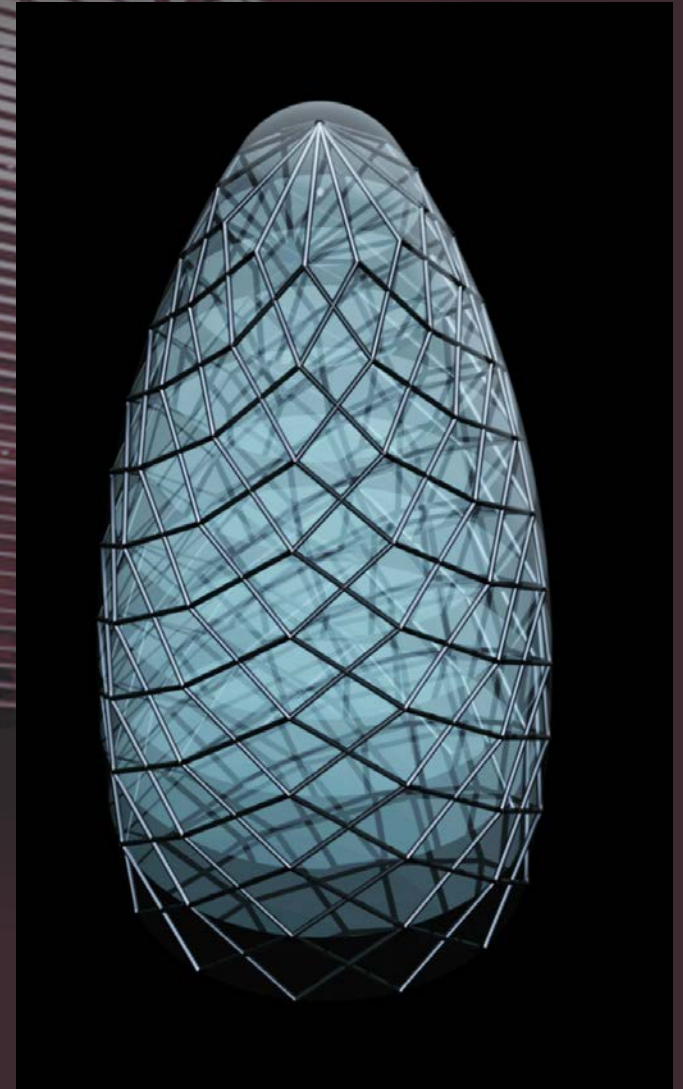
Other Projects



Other Projects

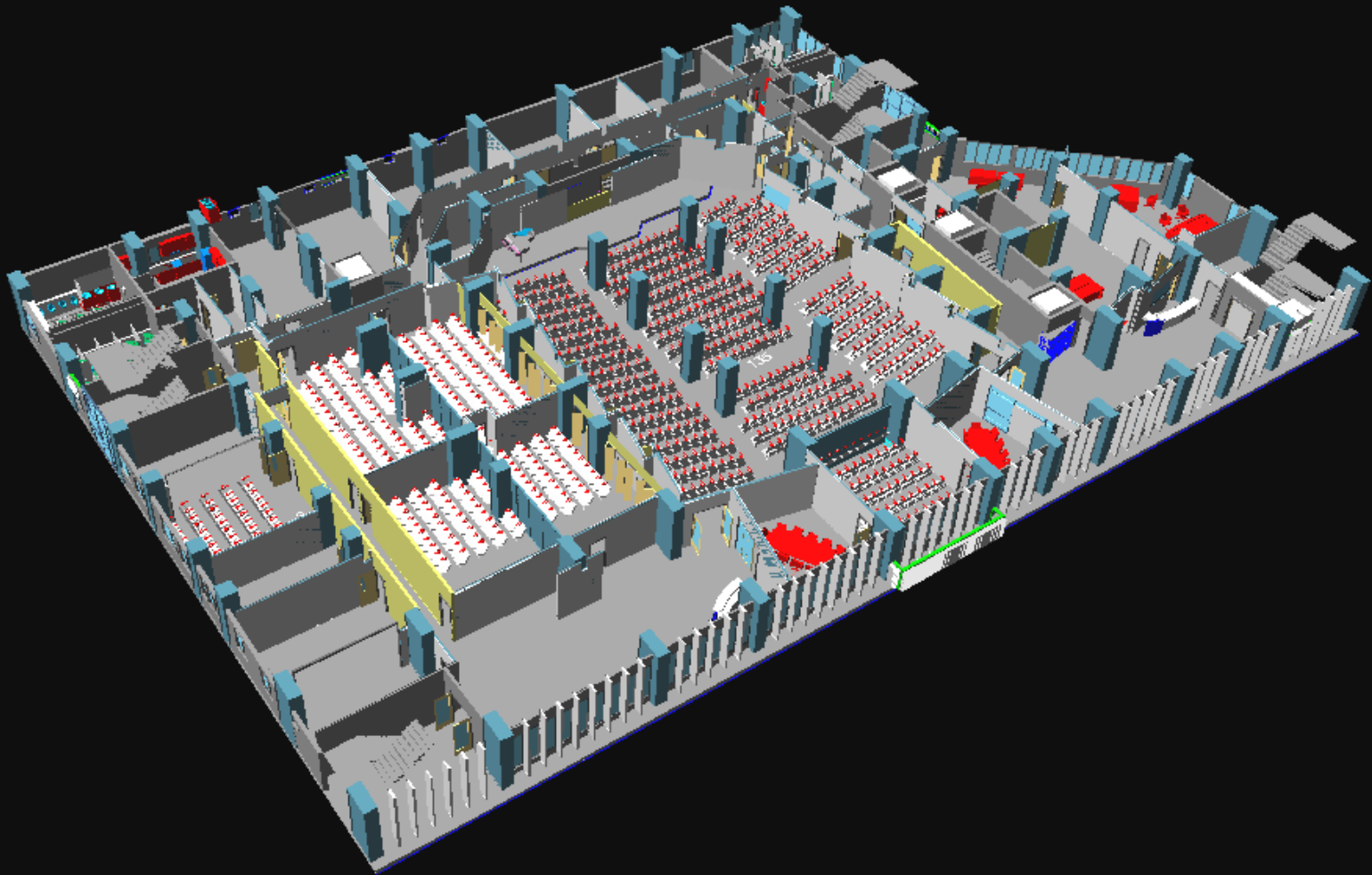


Other Projects

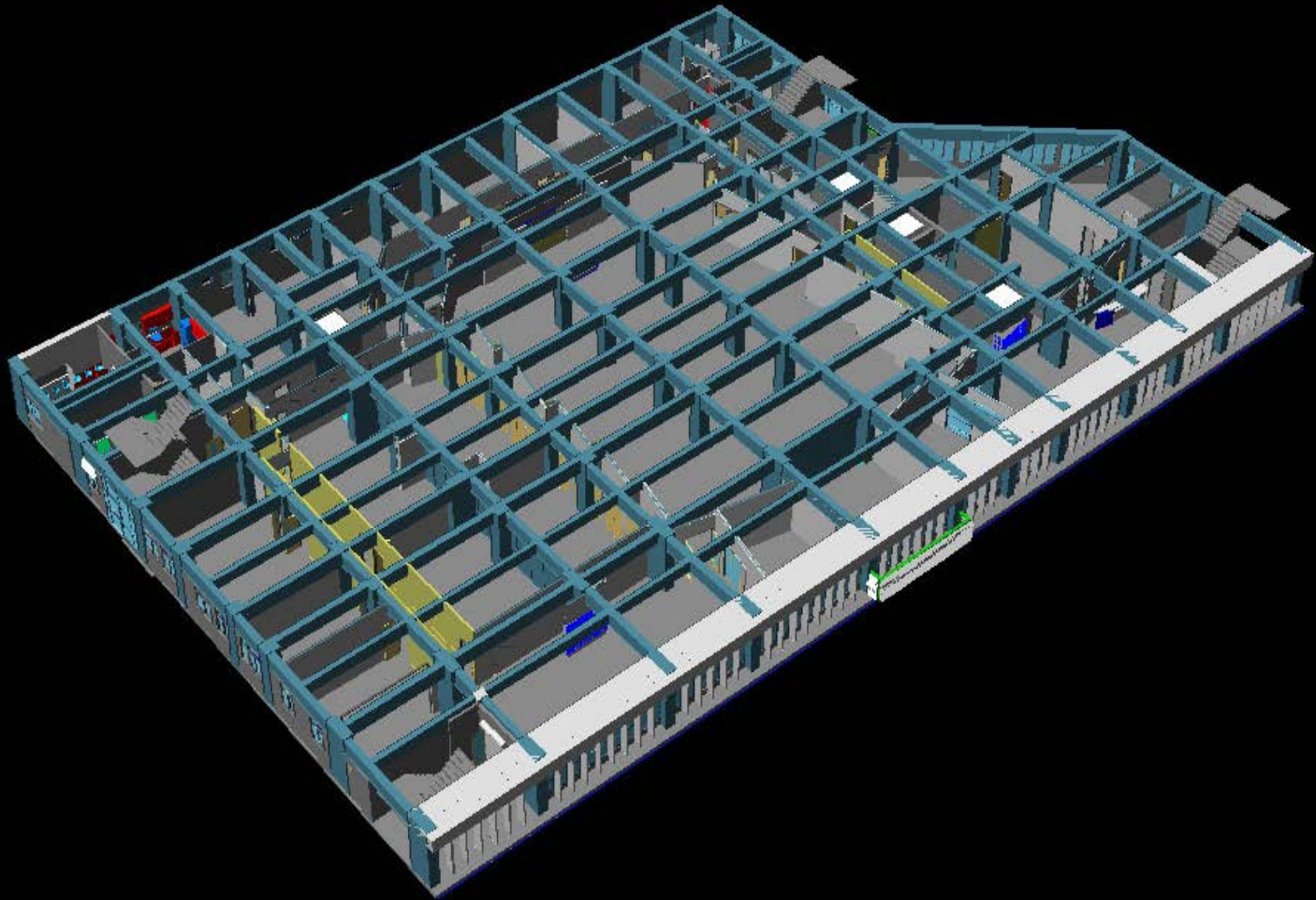


EVANGELICAL FREE CHURCH OF CHINA

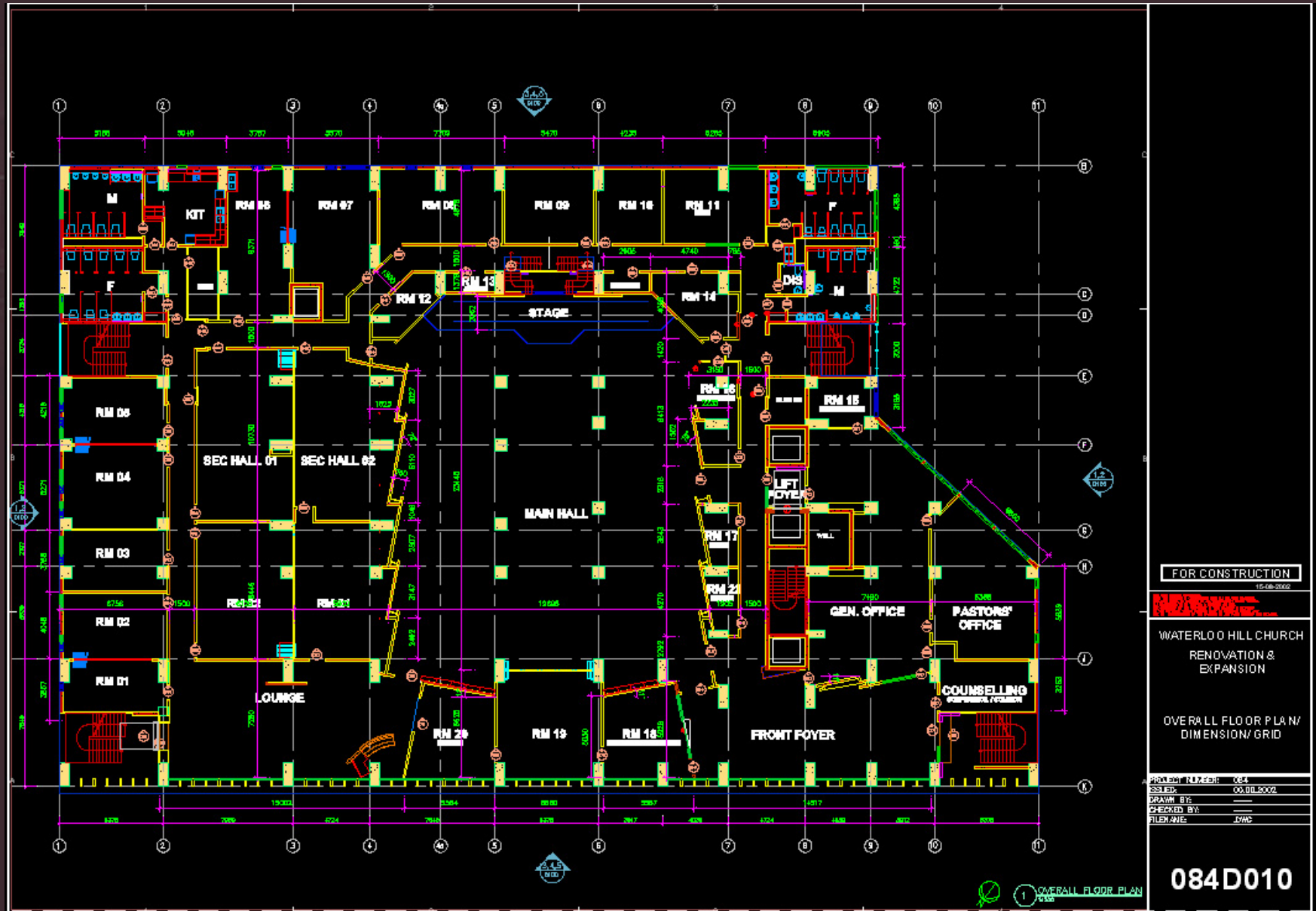
WATERLOO HILL CHURCH



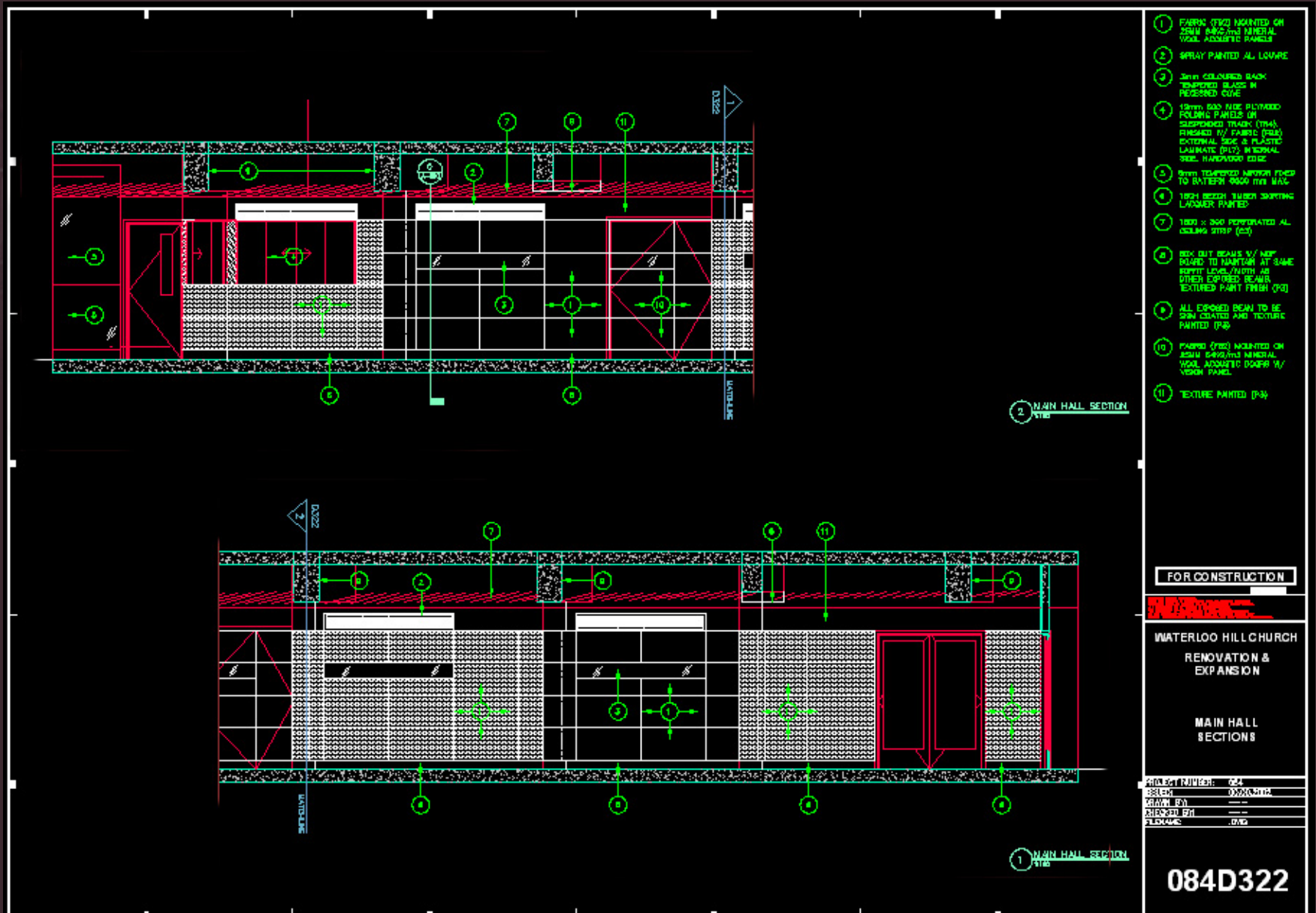
STRUCTURAL CONSTRAINTS



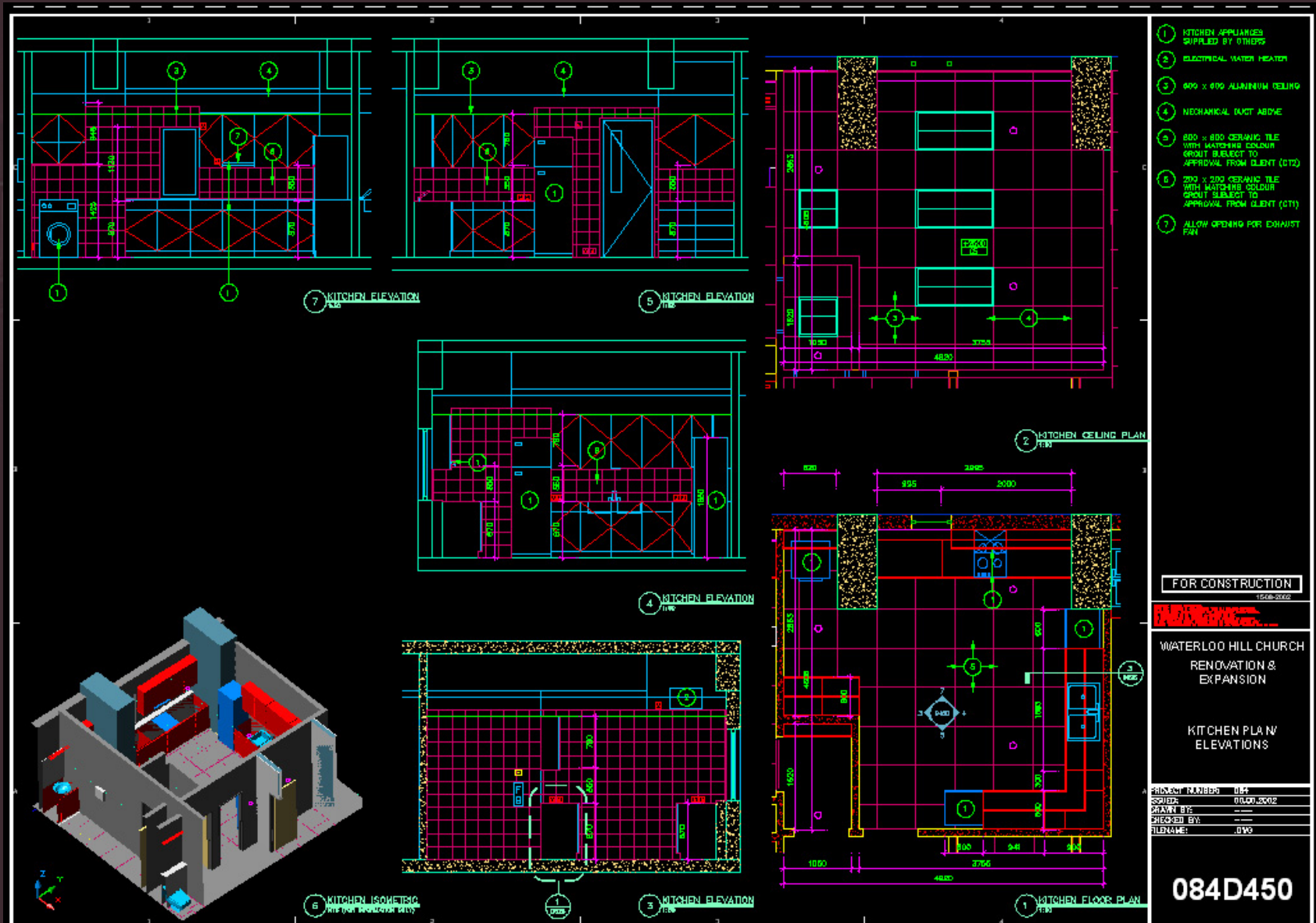
SELF GENERATED DOCUMENTATION – SIMPLE, VISUAL



SELF GENERATED DOCUMENTATION – SIMPLE, VISUAL



SELF GENERATED DOCUMENTATION – SIMPLE, VISUAL



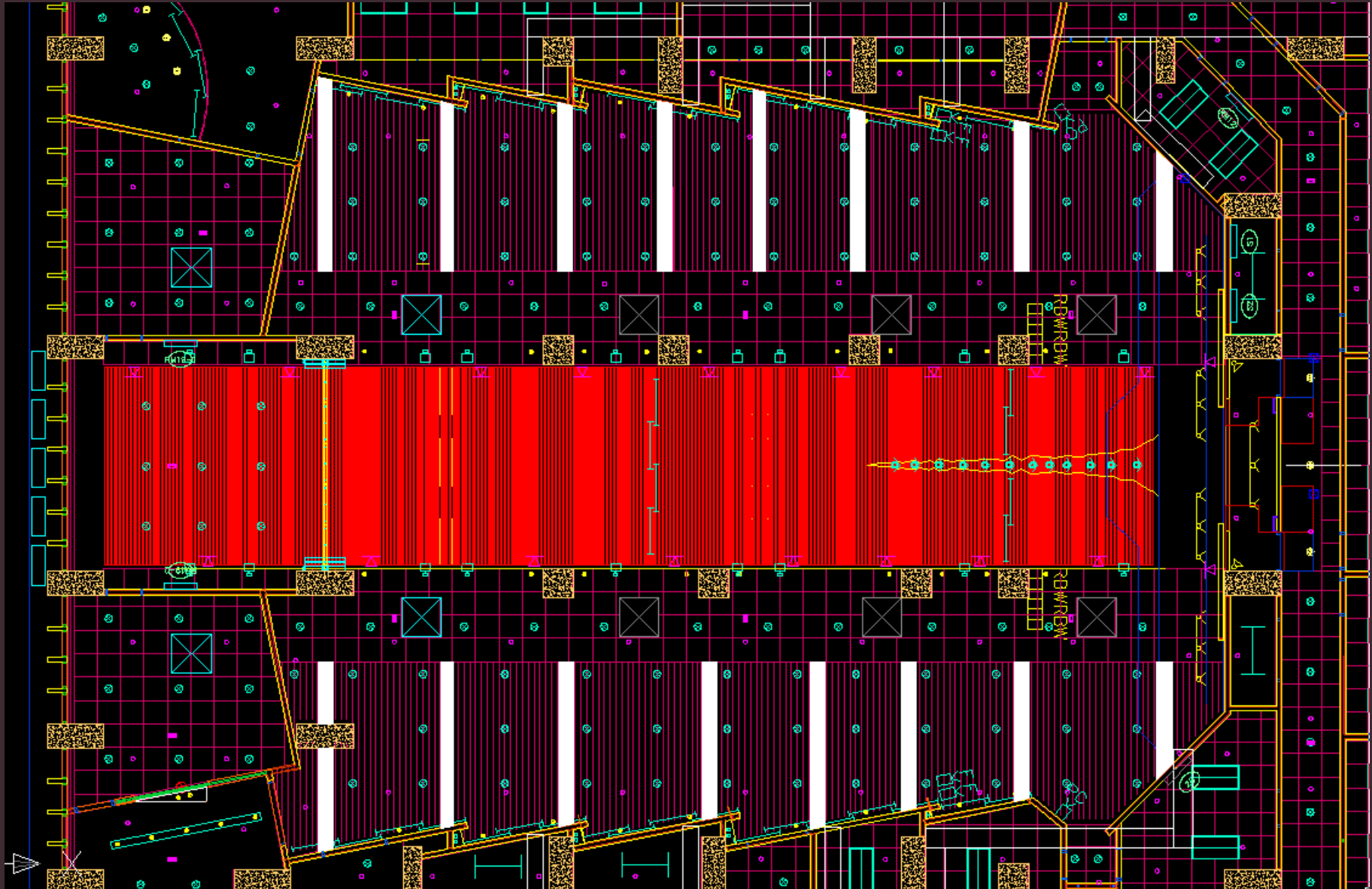




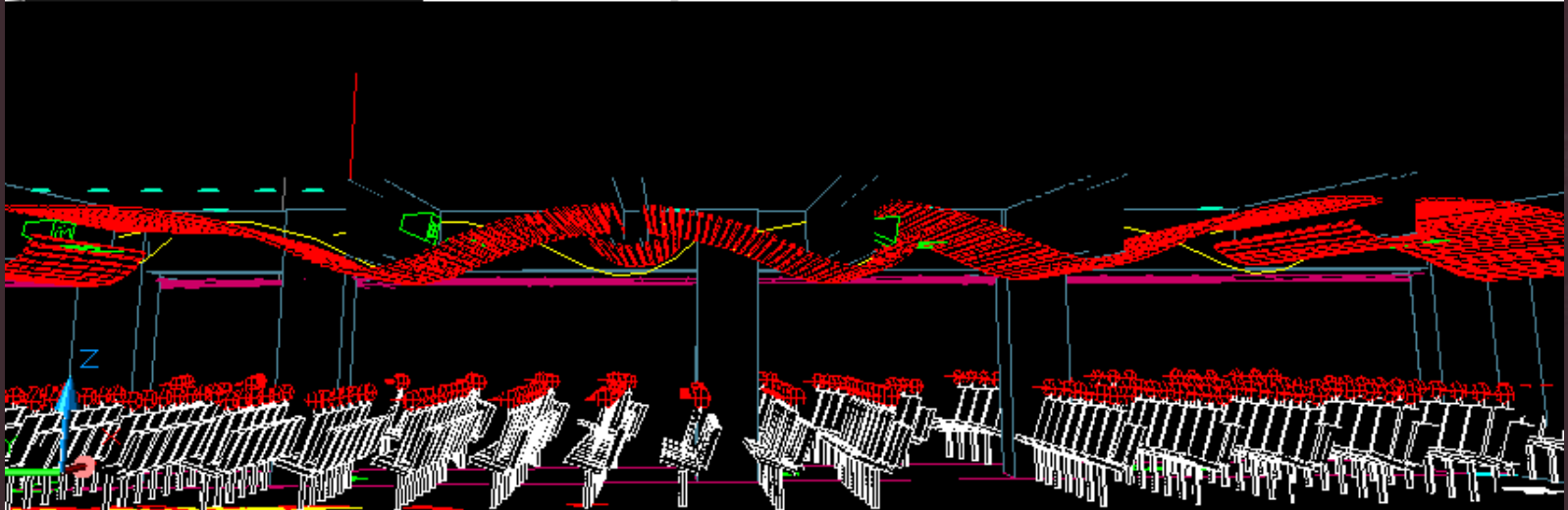
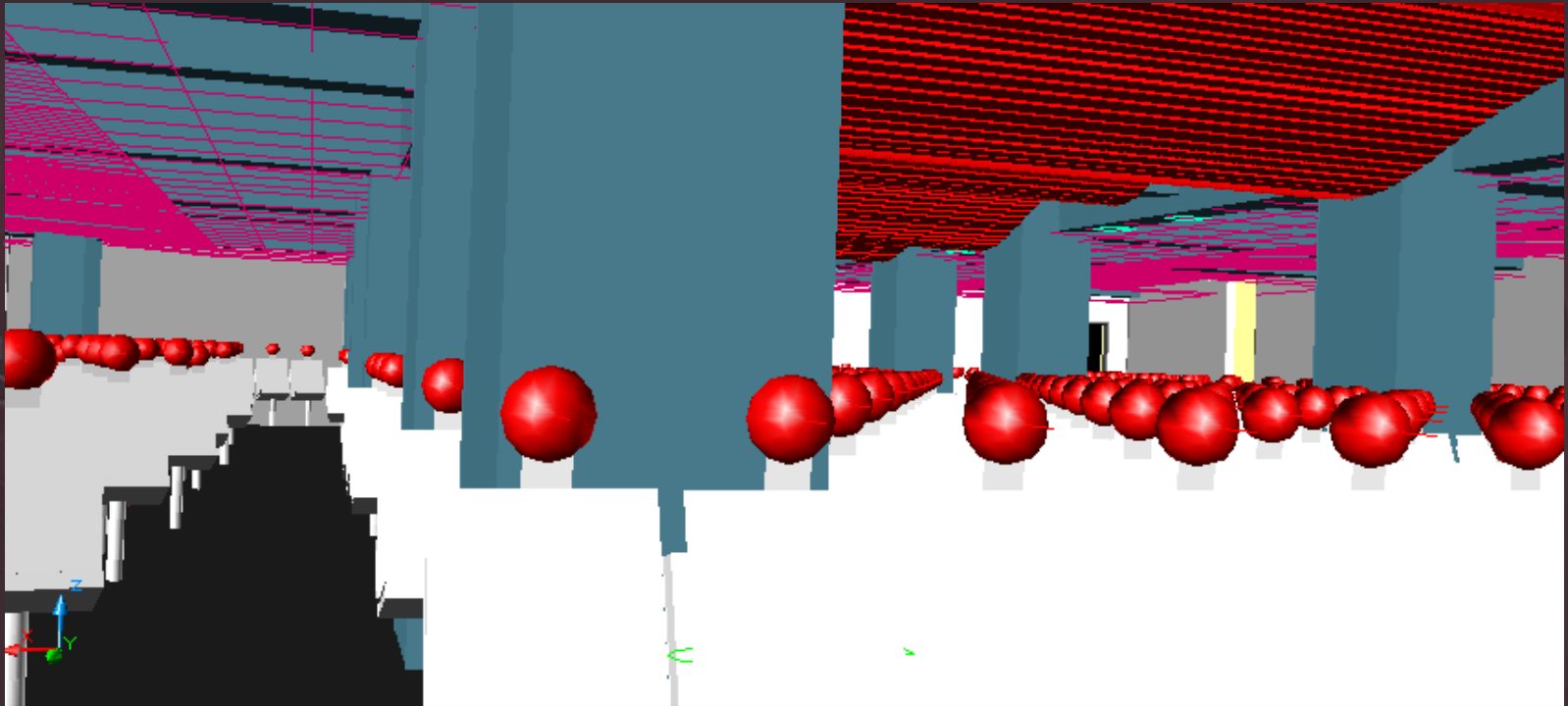




MAIN HALL DESIGN



MAIN HALL DESIGN





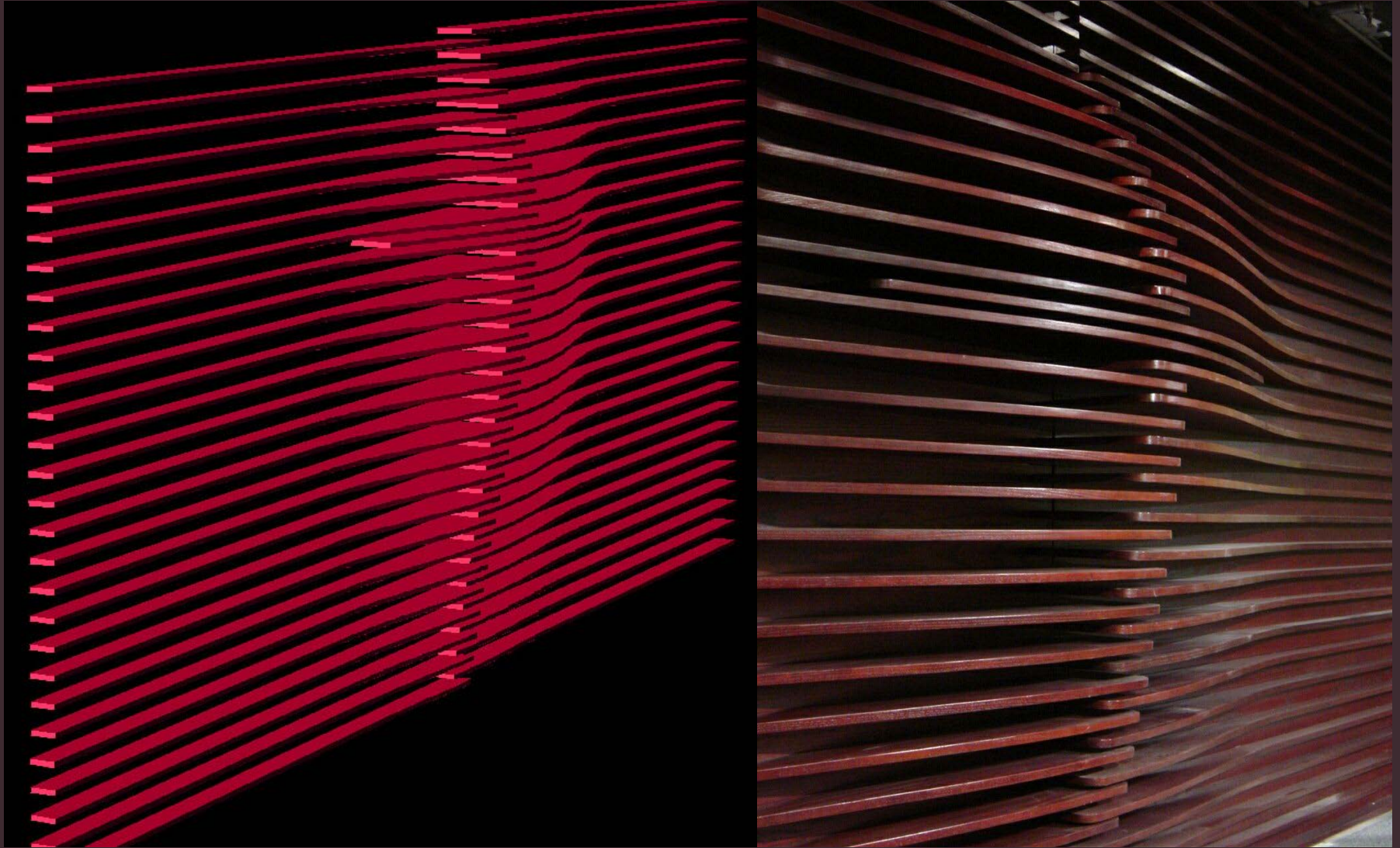




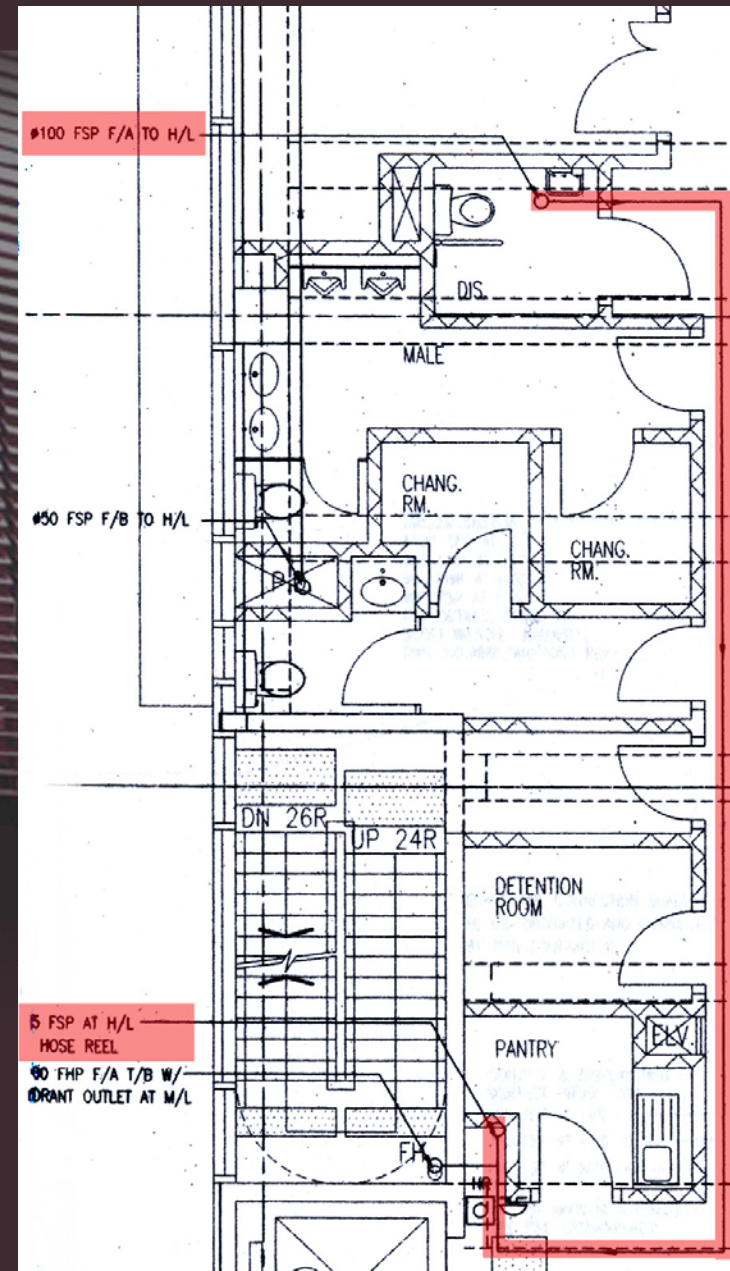
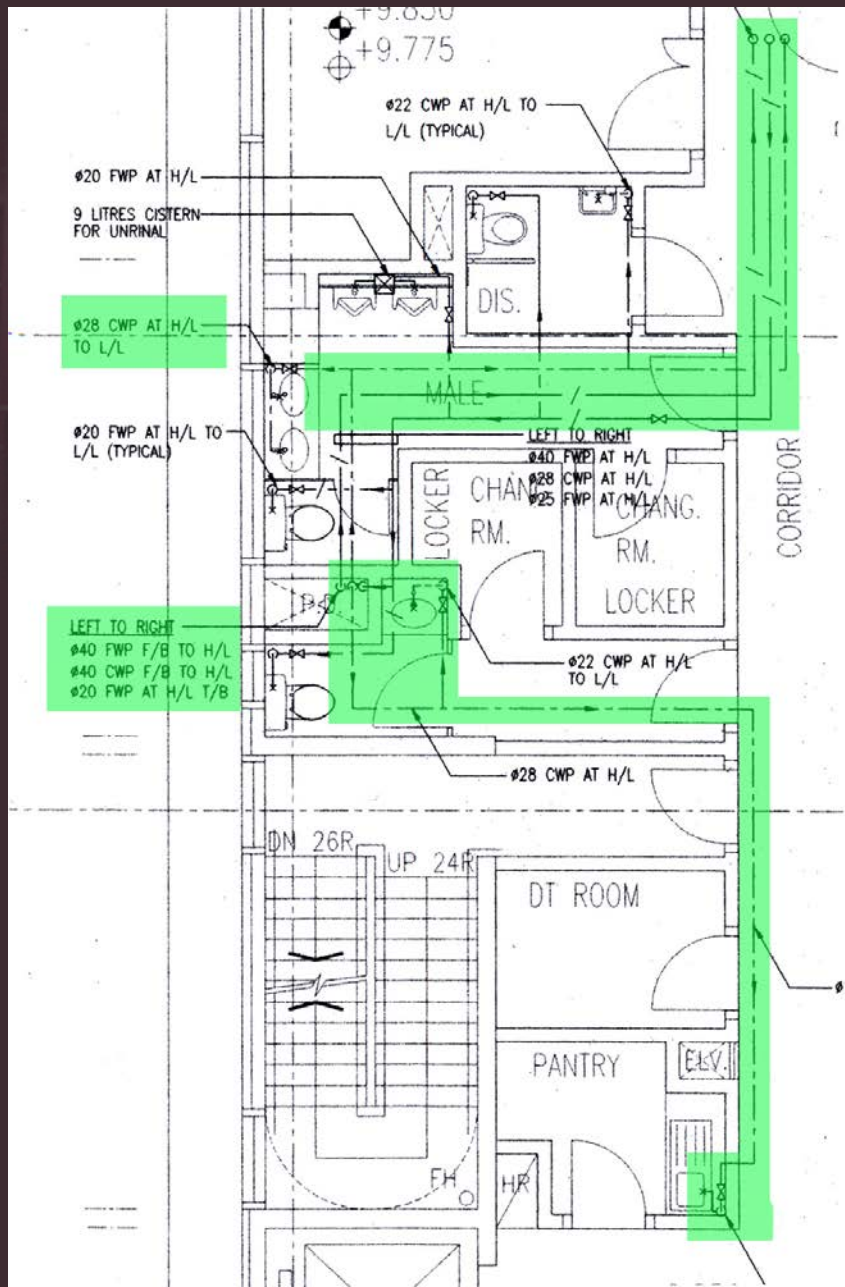
WYSIWYG – What You See Is What You Get



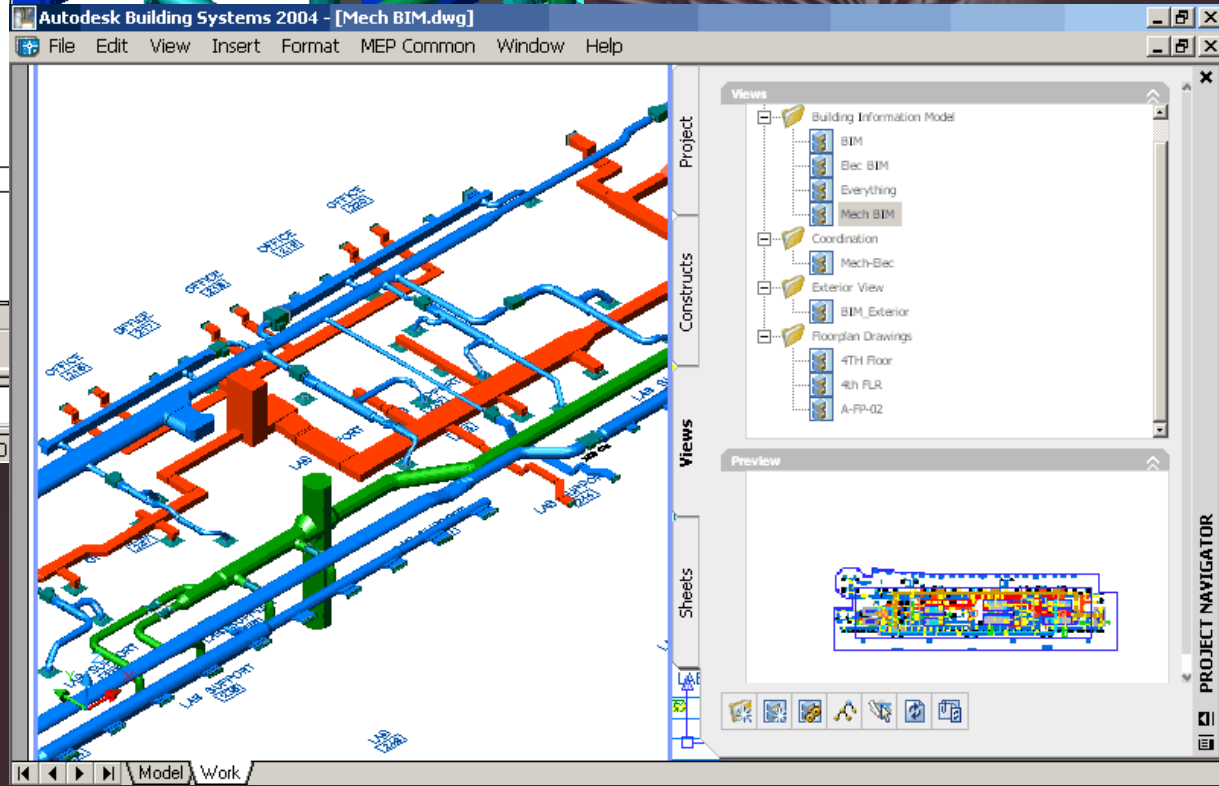
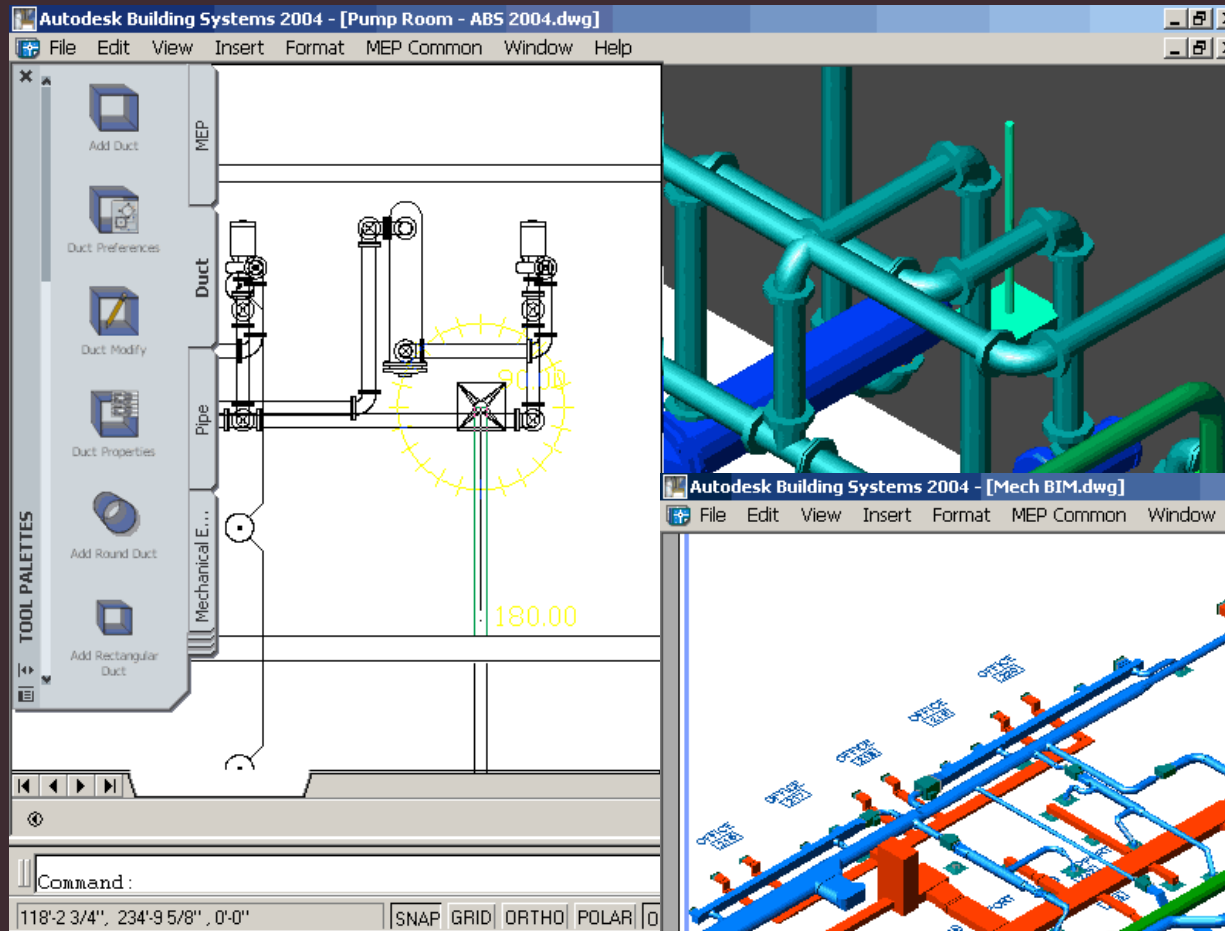
WYSIWYG – What You See Is What You Get



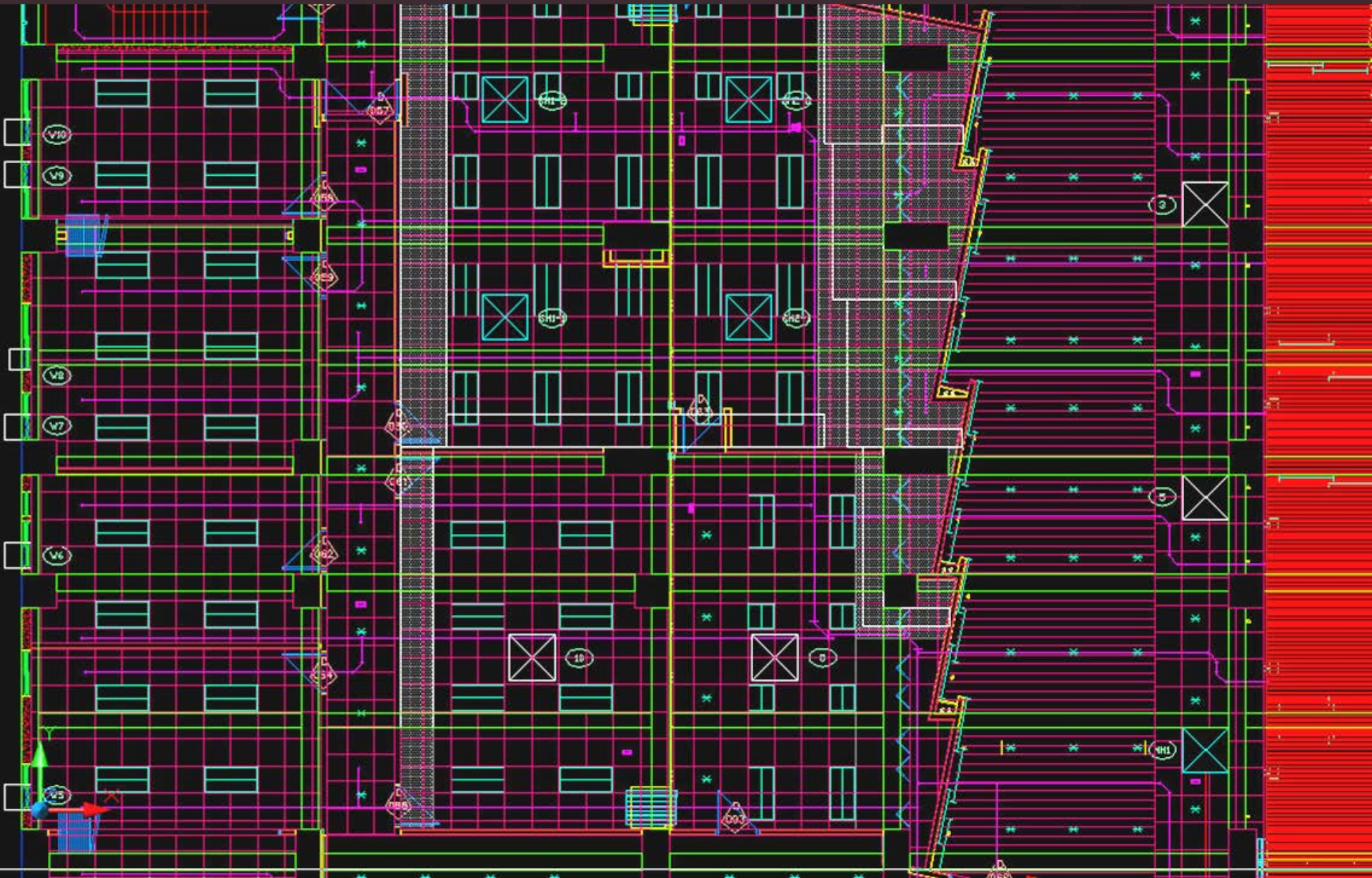
CO-ORDINATION OF SERVICES



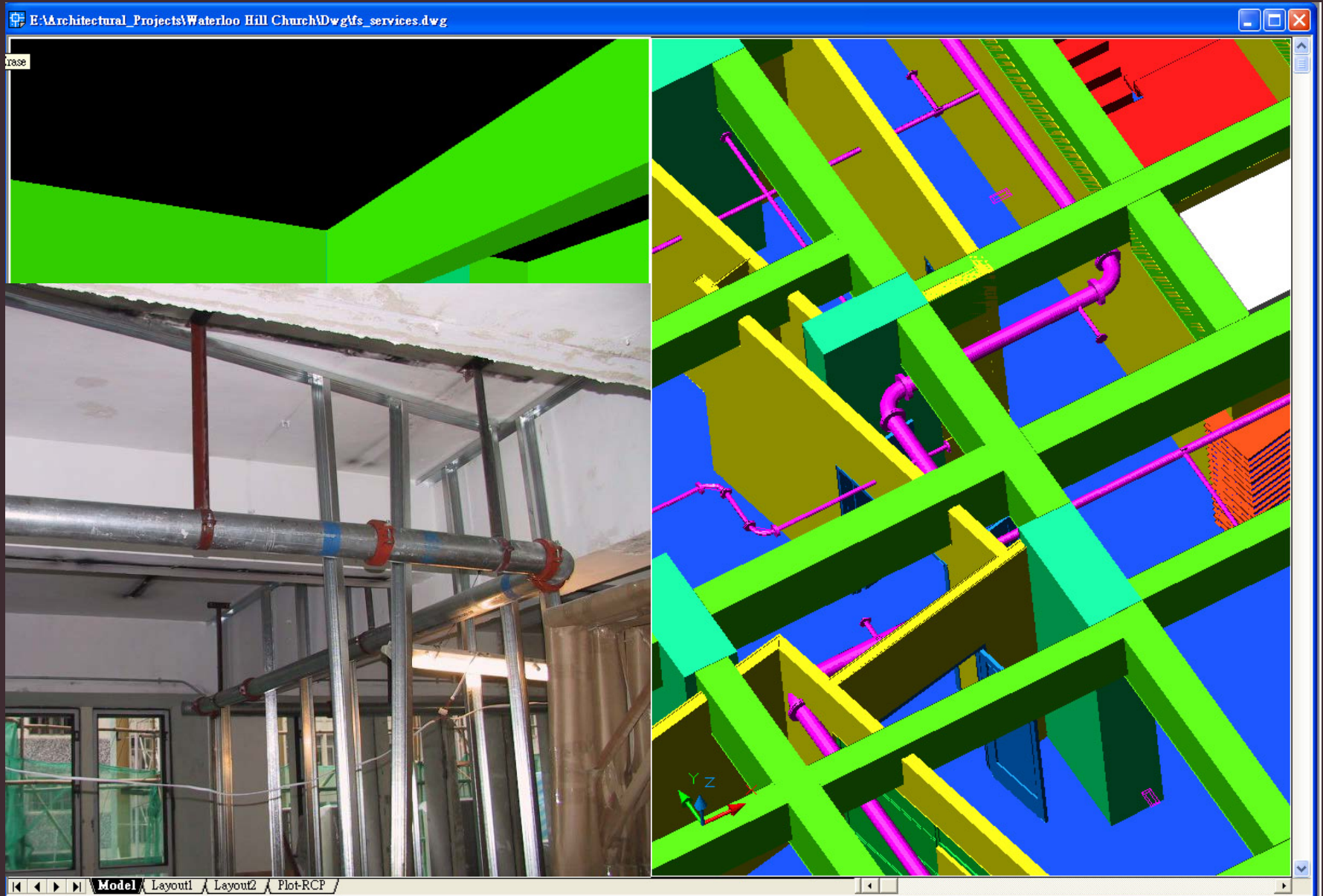
3D SERVICES CO-ORDINATION



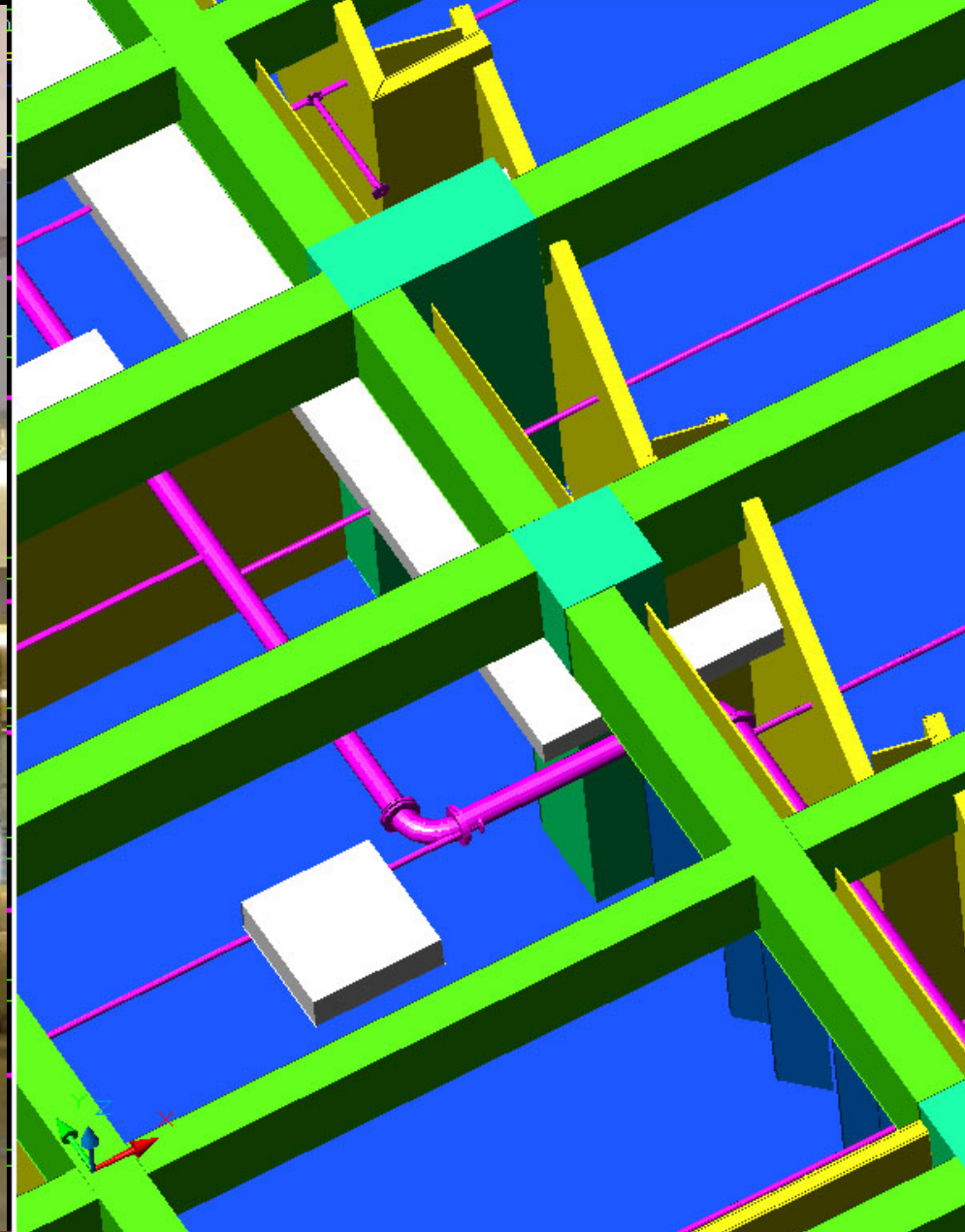
CO-ORDINATION OF SERVICES



CO-ORDINATION OF SERVICES



CO-ORDINATION OF SERVICES





SCHEDULES

Autodesk Architectural Desktop 3.3 - [E:\Architectural_Projects\Waterloo Hill Church\dwg\plan_1.00.dwg]

Edit View Insert Format Tools Draw Dimension Modify Image Concept Design Documentation Desktop Window Help

ByLayer ByLayer 0.05 mm

RM 23 STORE1

D 016

D 015

D 014

MARK	SIZE			MATL	FINISHES			LOUVER		MATL	EL	HEAD
	WD	HGT	THK		PULL	PUSH	GLAZING	WD	HGT			
?	1600	2260	25.4	---	?	?	?	0	0	GMS	F	?
001	PR 750	2200	6	GL	---	---	---	0	0	---	K	---
002	750	2100	40	HC	PL	PL	VP	0	0	TM	A	H1
003	750	2100	40	HC	PL	PL	VP	0	0	TM	A	H1
011	750	2100	40	HC	PL	PL	VP	0	0	TM	A	H1
012	750	2100	40	HC	PL	PL	---	0	0	TM	B	H1
013	900	2450	8	GL	---	---	---	0	0	SS	I	H8
014	PR 800	2100	40	GL	---	---	---	0	0	TM	D	H8
015	PR 800	2100	40	GL	---	---	---	0	0	TM	D	H8
016	750	2100	40	HC	PL	PL	---	0	0	TM	B	H1
017	750	2100	40	HC	PL	PL	---	0	0	TM	B	H1
018	600(1000)	2150	40	HC	PL	FB	VP	0	0	TM	L	H9
019	850	2450	40	HC	PL	PL	---	0	0	SS	B	H3
020	1600	2250	25.4	---	---	---	---	0	0	GMS	F	---
022	850(930)	2100	40	HC								
023	850	2100	40	SC								
024	PR 900	2100	40	SC								
025	850	2100	40	HC								
026	340(1240)	2100	40	HC								
027	750	2100	40	HC								
028	750	2100	40	HC								
029	750	2100	40	HC								
030	750	2100	40	HC								
031	750	2100	40	HC								
032	850	2100	40	HC								
033	850	2100	40	HC								
034	PR 750	2100	40	HC								
035	850	2100	40	HC								
036	850	2100	40	HC								
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039	850	2100	40	HC								

Model Space Mass-Group Work-3D Work-FLR Work-SEC Work-RCP Plot-FLR Plot-SEC Plot-RCP Template-C

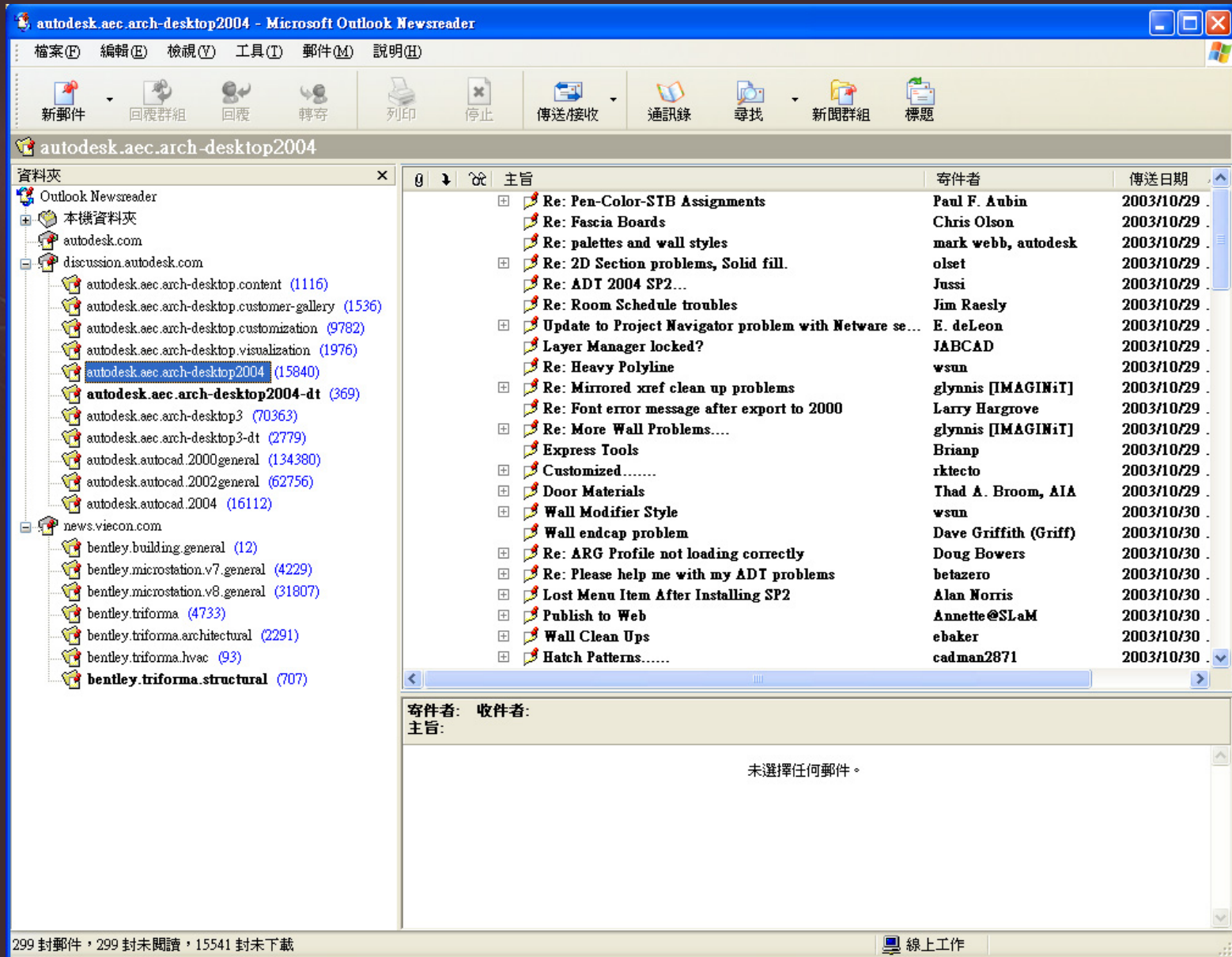
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SNAP GRID ORTHO POLAR OSNAP OTRACK LWT MODEL



WE ARE NOT ALONE!!!



3D MODELLING IN BUILDING DESIGN IS.....

- Multiple Efficiency (Double productivity – easy!)
- WYSIWYG
- More Time in Design, Not Drafting
- Coherence in Information
- Collaboration among Disciplines
- Resolves Problem in Early Phase

.... the way to go!!!