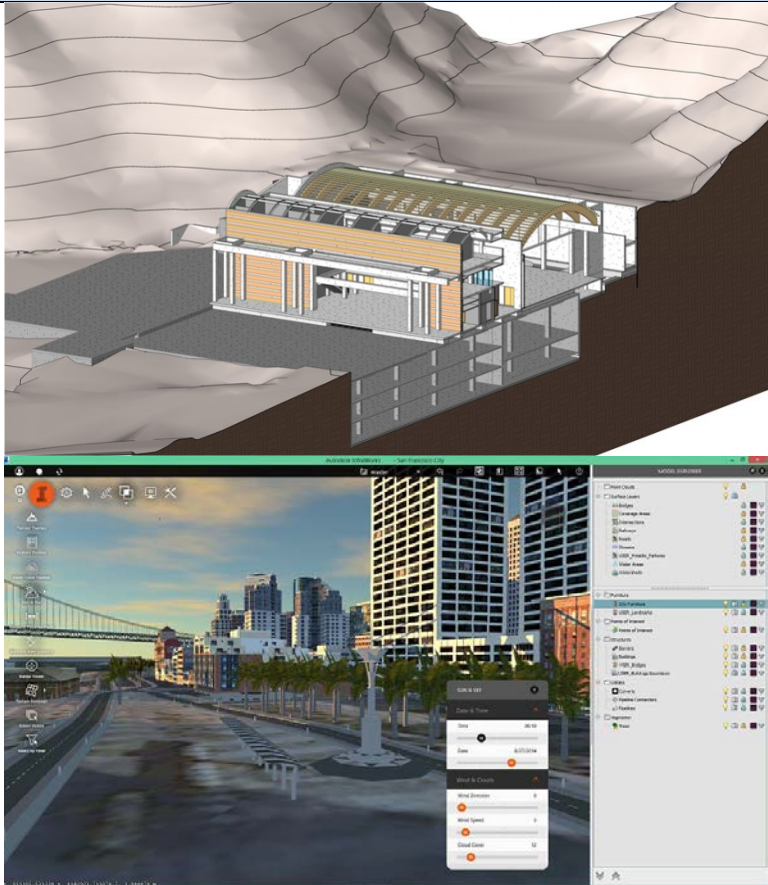
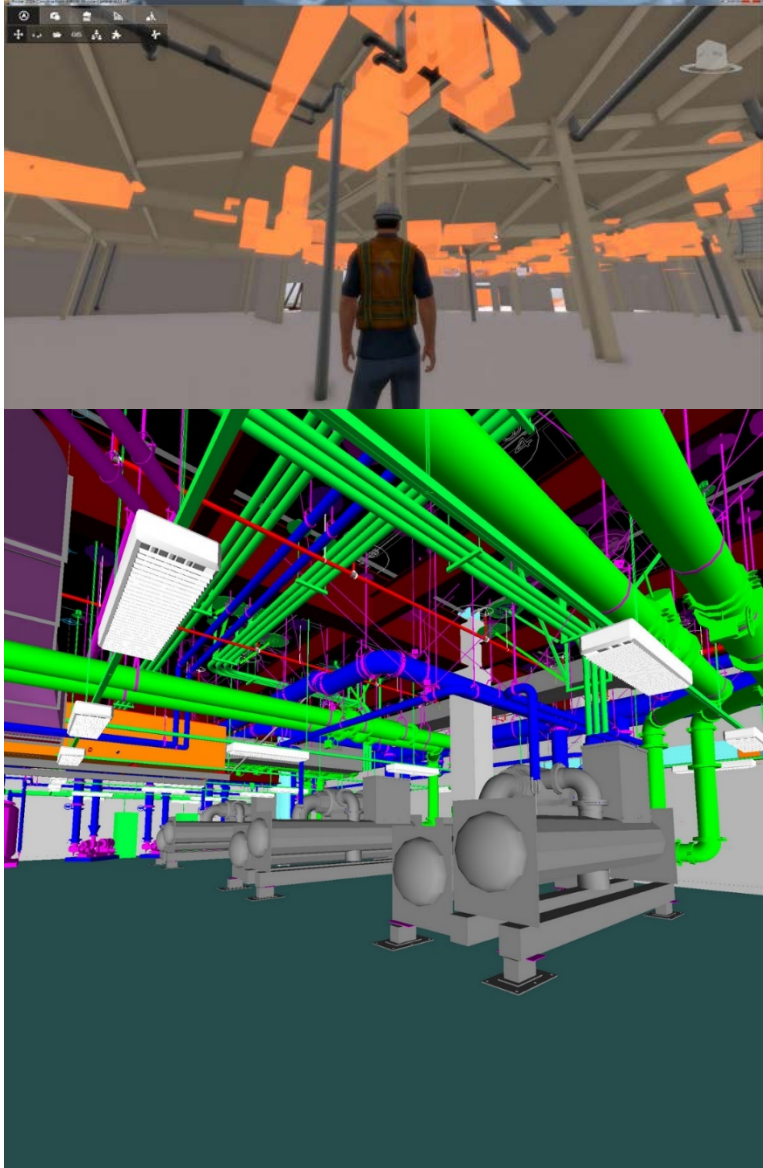



BIM SCOPE OF WORKS MATRIX

Stage	Submit format and content	Information required	Submission purpose	Example	Services
1	Early Planning stage				
1.1	Topography	Contour and coordinates for project area	For sunshade study, landscape study, excavation and back fill, even sub-structure analysis		

1.2	Utilities analysis	Existing drainage and sewage system, electricity, gas and telecom system	Preparation for design of underground services		
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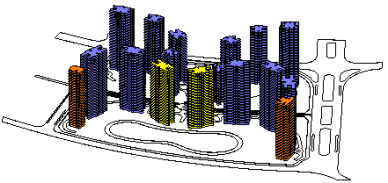
1.3	Traffic analysis	Road map	To locate the main and secondary entrance of the building	 <p>The image displays the Autodesk Infrastructure Modeler 2012 interface. The top-left window shows a 3D perspective view of a white bus with 'AMBULANCE' and 'RED CROSS' markings on its side, positioned on a road. The top-right window shows a 2D map view of the same area, with a scale bar indicating 0, 10, 20, and 30 meters. The main central window shows a 3D view of a city street with various colored overlays (green, yellow, red) representing different traffic analysis data. The bottom-left window shows the 'Themes' panel with a list of themes: 'empty', 'none', 'FSL', 'P&P', and 'Prop'. The bottom-right window shows a 3D view of a city street with various colored overlays (green, yellow, red) representing different traffic analysis data.</p>
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1.4

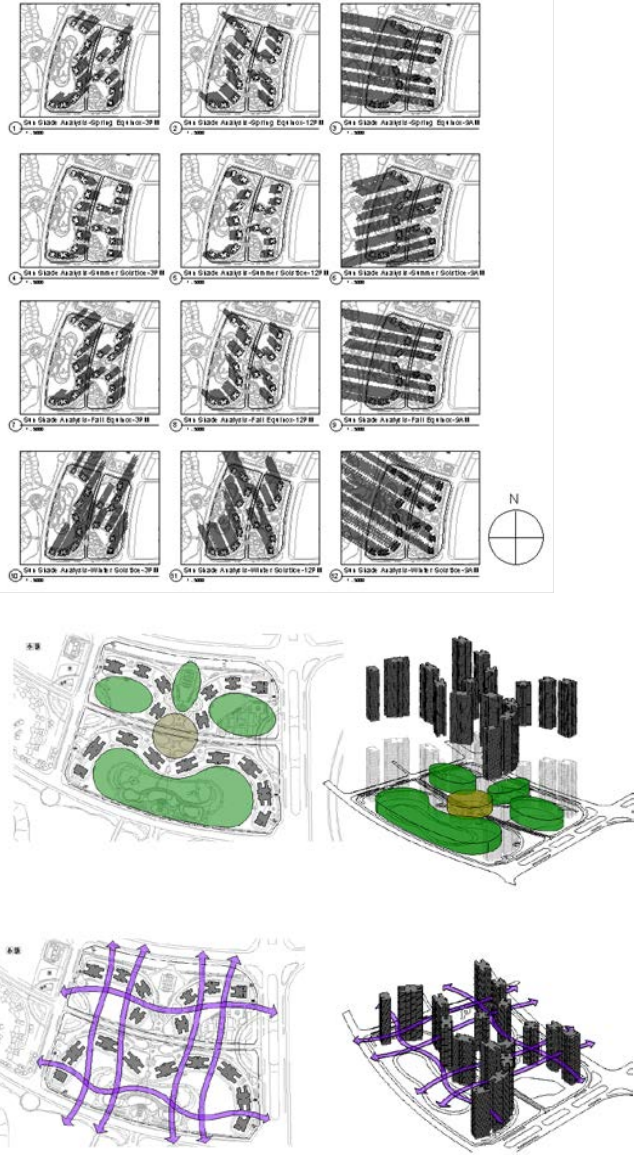
Build mass model to generate the preliminary area schedule

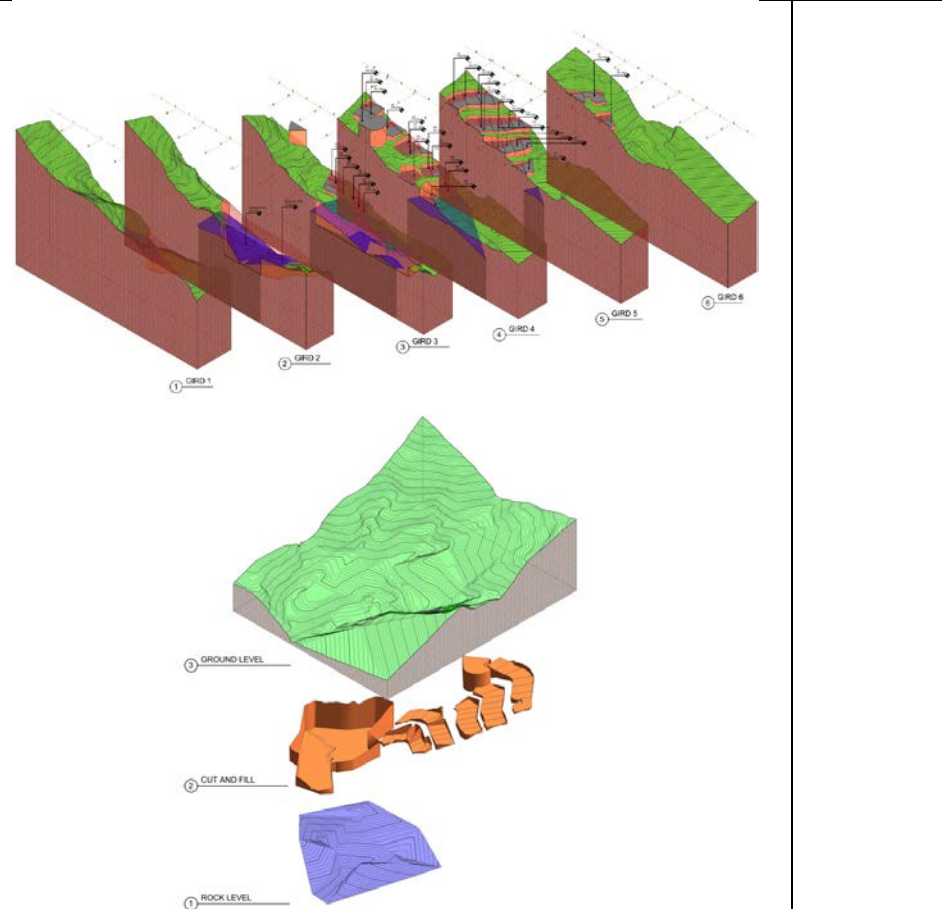
Master plan and floor plans

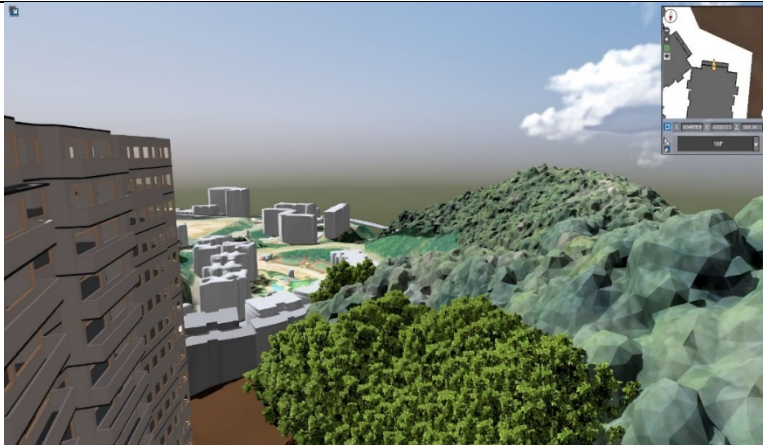

Preliminary area schedule could be use as early financial analysis

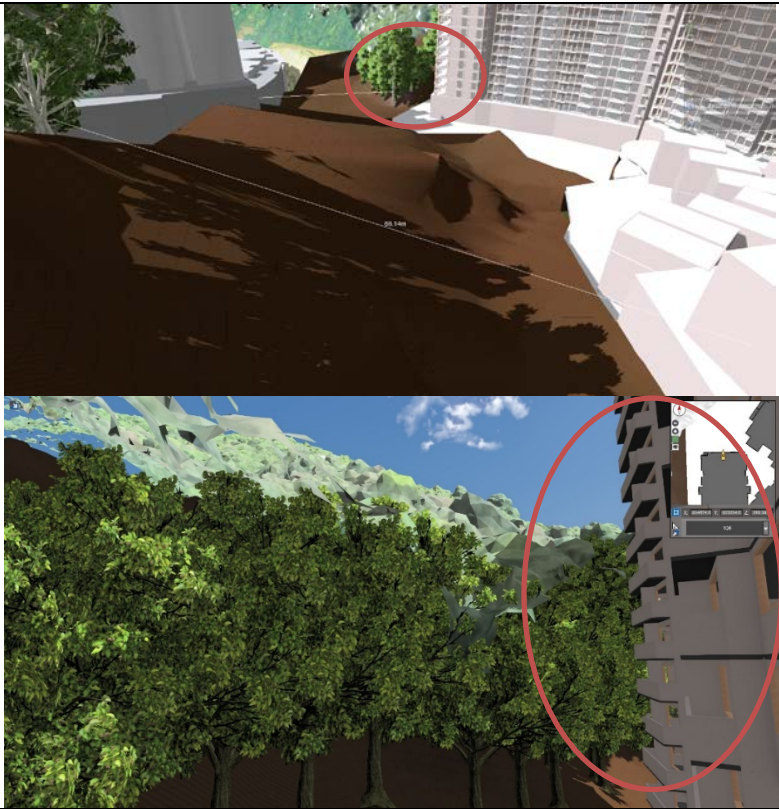


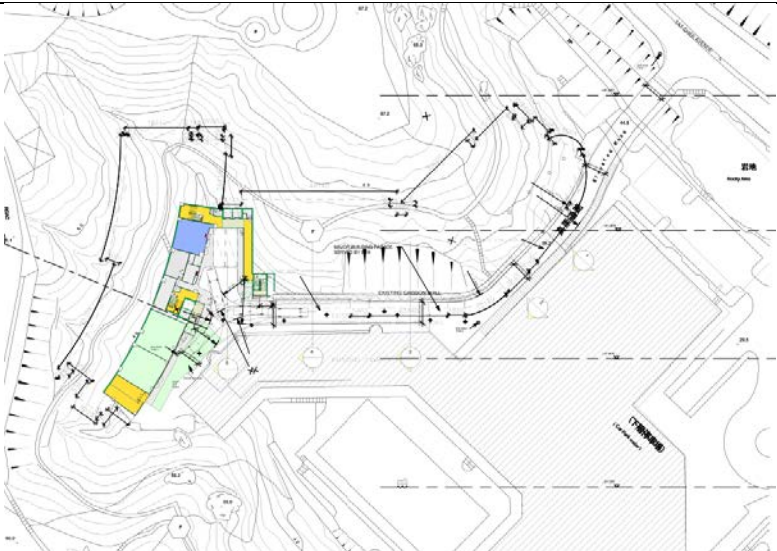
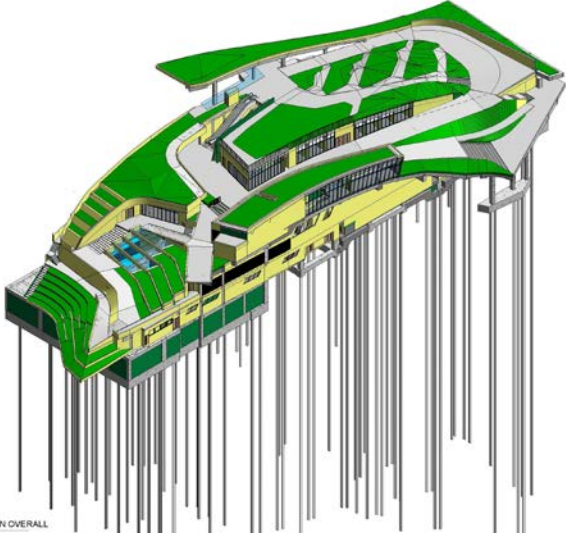
Grand Floor Area Schedule				Grand Floor Area Schedule				Grand Floor Area Schedule			
Block	Floor	Area	Unit	Block	Floor	Area	Unit	Block	Floor	Area	Unit
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101	101.2	101.2	101.2	102	102.2	102.2	102.2	103	103.2	103.2	103.2
101	101.3	101.3	101.3	102	102.3	102.3	102.3	103	103.3	103.3	103.3
101	101.4	101.4	101.4	102	102.4	102.4	102.4	103	103.4	103.4	103.4
101	101.5	101.5	101.5	102	102.5	102.5	102.5	103	103.5	103.5	103.5
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101	101.8	101.8	101.8	102	102.8	102.8	102.8	103	103.8	103.8	103.8
101	101.9	101.9	101.9	102	102.9	102.9	102.9	103	103.9	103.9	103.9
101	101.10	101.10	101.10	102	102.10	102.10	102.10	103	103.10	103.10	103.10
101	101.11	101.11	101.11	102	102.11	102.11	102.11	103	103.11	103.11	103.11
101	101.12	101.12	101.12	102	102.12	102.12	102.12	103	103.12	103.12	103.12
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101	101.23	101.23	101.23	102	102.23	102.23	102.23	103	103.23	103.23	103.23
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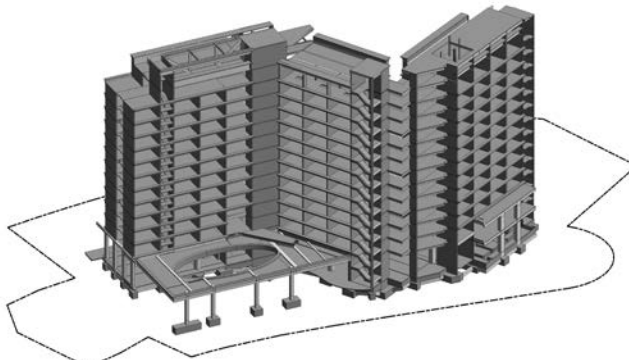

2	Design stage			
2.1	Sunshade, wind, energy consumption analysis for project	Site contour, existing landscape analysis, includes tree location, species and ages	For design reference, building location and building design checking	

2.2	Excavation analysis	Site topography, master plan and building plans, levels	Excavation analysis could be used as design checking, which could help to revise the design to make sure the excavation keeps at minimum level	 <p>The image displays a 3D visualization of excavation analysis across six grid sections (GRID 1 to GRID 6). The top row shows cross-sections of the terrain with green ground surface, brown excavation areas, and blue rock levels. Below this, a 3D perspective view shows the ground level (green), cut and fill (orange), and rock level (blue) surfaces. The labels 1, 2, 3, 4, 5, and 6 correspond to the grid sections.</p>
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2.3	Landscape model, includes trees within project boundary	Site topography, site landscape report and arborist report	Could be used for landscape design, to relocate the purposed tree on the landscape model, and for visual checking		
2.4	Tree crown, roots and growth analysis	Tree species, age; dimension of tree crown and roots	Tree crown analysis for landscape design visual analysis; Tree root analysis for utilities design		

2.5	Clash detection between building and tree crown	Masterplan, building design; tree species, age and dimension of crown and roots	The clash detection will be used for landscape design		
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2.6	Design options	Masterplan, preliminary architectural and landscape design	Analyze design options to achieve quality design for architecture, master planning and landscape		
2.7	Architectural BIM model: room names, function, numbers and area	Masterplan and general arrangement plan, elevations and roof design	For drawing production, material schedule and area schedule	 <p>P_200_ISO PLAN OVERALL</p>	

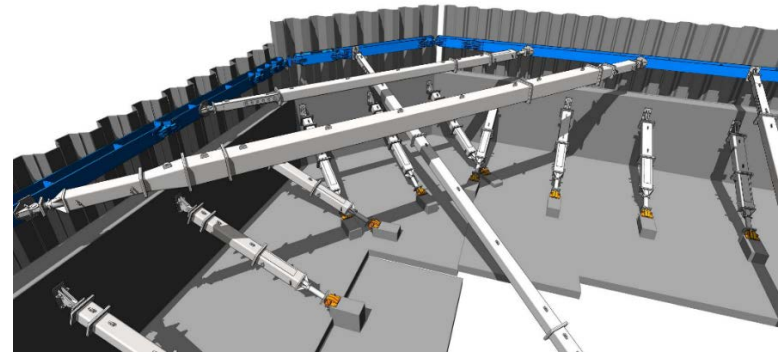
2.10	Schedule of quantities	Architectural design and materials	Schedule of windows, doors or louvres, help QS to start with preliminary quantity take-off	<table><tr><th colspan="4">WINDOW SCHEDULE</th></tr><tr><th>Type Mark</th><th>Total Width</th><th>Total Height</th><th>Total Area</th></tr><tr><td>A</td><td>2250</td><td>2250</td><td>5.063 m²</td></tr><tr><td></td><td></td><td></td><td>5.063 m²</td></tr><tr><td>B</td><td>1675</td><td>2250</td><td>3.769 m²</td></tr><tr><td>B</td><td>2100</td><td>2250</td><td>4.725 m²</td></tr><tr><td></td><td></td><td></td><td>8.494 m²</td></tr><tr><td>C</td><td>2025</td><td>2250</td><td>4.556 m²</td></tr><tr><td>C</td><td>2625</td><td>2250</td><td>5.906 m²</td></tr><tr><td></td><td></td><td></td><td>10.463 m²</td></tr><tr><td>D</td><td>2700</td><td>2250</td><td>6.075 m²</td></tr><tr><td>D</td><td>1850</td><td>2250</td><td>4.163 m²</td></tr><tr><td></td><td></td><td></td><td>10.238 m²</td></tr><tr><td>TOTAL</td><td></td><td></td><td>34.256 m²</td></tr></table>	WINDOW SCHEDULE				Type Mark	Total Width	Total Height	Total Area	A	2250	2250	5.063 m²				5.063 m²	B	1675	2250	3.769 m²	B	2100	2250	4.725 m²				8.494 m²	C	2025	2250	4.556 m²	C	2625	2250	5.906 m²				10.463 m²	D	2700	2250	6.075 m²	D	1850	2250	4.163 m²				10.238 m²	TOTAL			34.256 m²	
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2.11	Structural BIM model: piling, pile cap, substructure and superstructure	Structural design for piling, pile cap, ELS, demolition plan, substructure and superstructure	For structural drawing production, export model for structural calculation	 <p>Appendix U</p>  <p>Remark:</p> <ul style="list-style-type: none">- Beam is showed on Green.- Column is showed on Red.- Pile Cap is showed on Yellow.- Structural Wall is showed on Blue.- Bearing Wall is showed on Gray.- Footing are showed on White.- Drainage system is showed on Light Blue. <p>Please clarify the followings as marked on Blue Circle</p> <ol style="list-style-type: none">1. Thickness of the Footing is 1.5m.2. TB003a cannot from the beam detail as to the plan this beam size is 400(w) x 800(h)mm <p>Foundation plan 1 : 250</p>																																																									

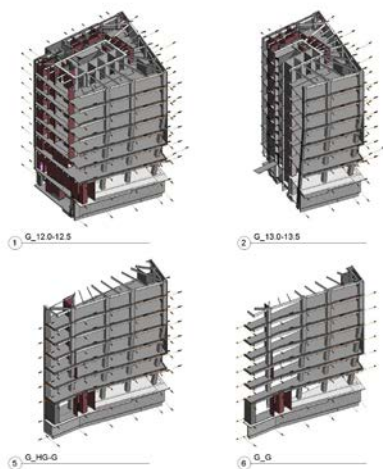
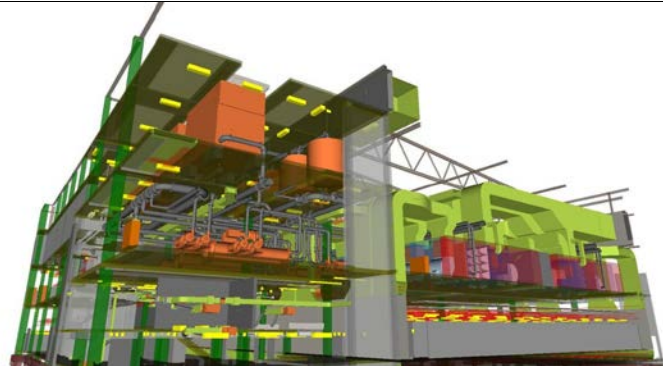
2.12


Hoarding design


Hoarding location and height

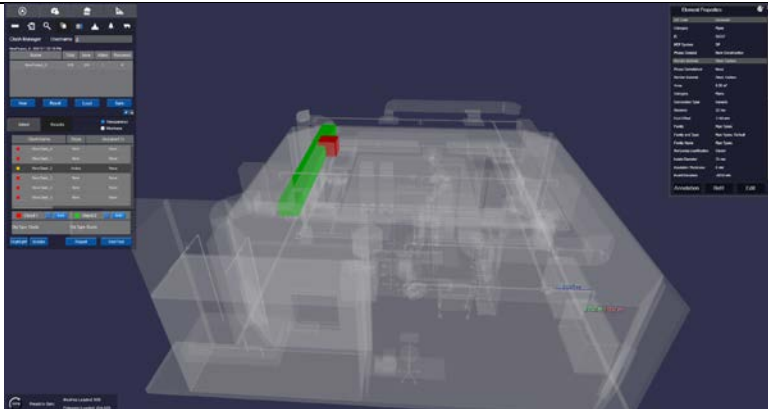
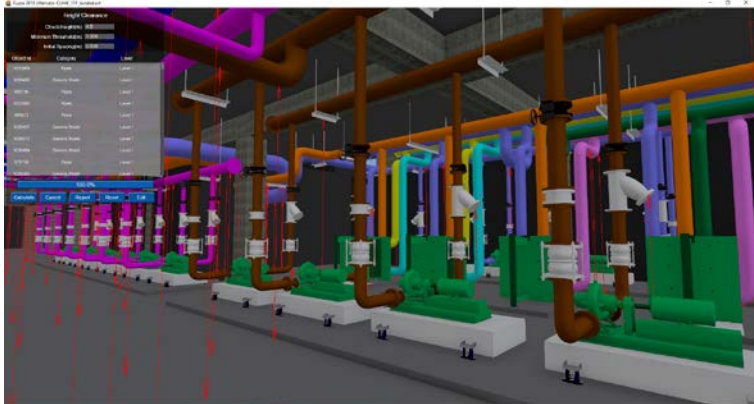
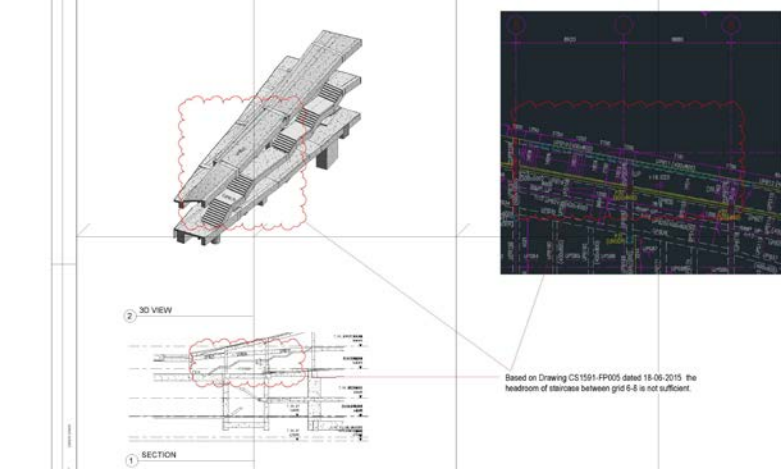
Commercial ads on hoarding




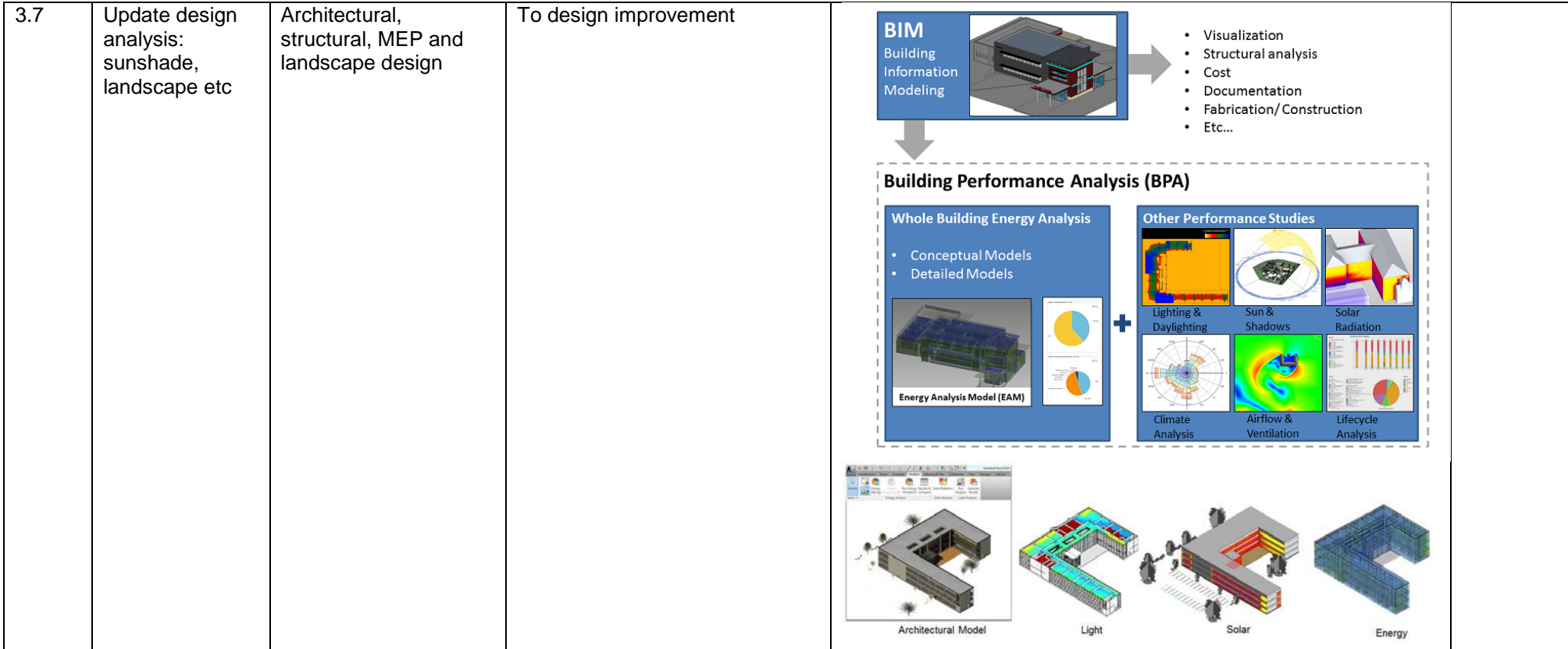
2.13	Export structural model	Structural design for piling, pile cap, substructure and superstructure	For structural calculation	<div></div> <table><tr><th colspan="10">Table 1: Structural Analysis Results</th></tr><tr><th>Level</th><th>U (mm)</th><th>V (mm)</th><th>W (mm)</th><th>U (mm)</th><th>V (mm)</th><th>W (mm)</th><th>U (mm)</th><th>V (mm)</th><th>W (mm)</th></tr><tr><td>Level 12.0</td><td>1.2</td><td>0.8</td><td>0.5</td><td>1.5</td><td>1.0</td><td>0.6</td><td>1.8</td><td>1.2</td><td>0.7</td></tr><tr><td>Level 13.0</td><td>1.5</td><td>1.0</td><td>0.6</td><td>1.8</td><td>1.2</td><td>0.7</td><td>2.1</td><td>1.4</td><td>0.8</td></tr><tr><td>Level PG</td><td>2.0</td><td>1.5</td><td>0.8</td><td>2.5</td><td>1.8</td><td>1.0</td><td>3.0</td><td>2.2</td><td>1.2</td></tr><tr><td>Level G</td><td>2.5</td><td>2.0</td><td>1.0</td><td>3.0</td><td>2.2</td><td>1.2</td><td>3.5</td><td>2.5</td><td>1.4</td></tr></table>	Table 1: Structural Analysis Results										Level	U (mm)	V (mm)	W (mm)	U (mm)	V (mm)	W (mm)	U (mm)	V (mm)	W (mm)	Level 12.0	1.2	0.8	0.5	1.5	1.0	0.6	1.8	1.2	0.7	Level 13.0	1.5	1.0	0.6	1.8	1.2	0.7	2.1	1.4	0.8	Level PG	2.0	1.5	0.8	2.5	1.8	1.0	3.0	2.2	1.2	Level G	2.5	2.0	1.0	3.0	2.2	1.2	3.5	2.5	1.4	
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2.14	MEP BIM model: MVAC, P&D, FS and electrical design	MEP design for MVAC, P&D, FS and Electrical, dimension and level of ducting and pipework	All MEP elements were model to make sure the design feasibility																																																														

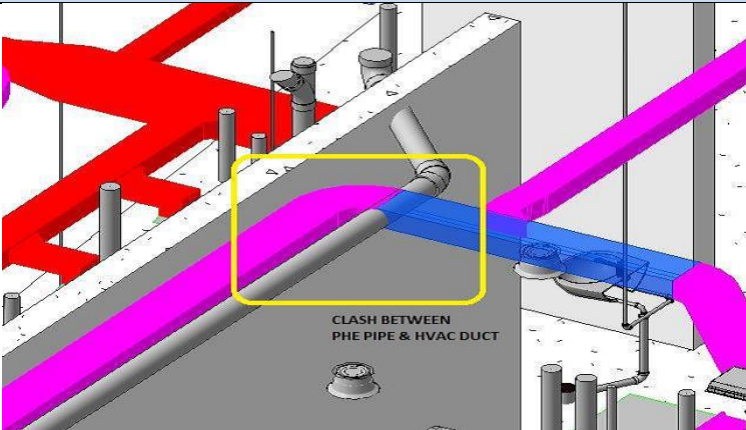
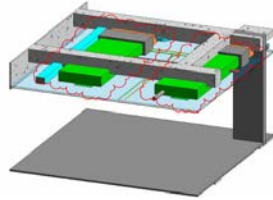

					
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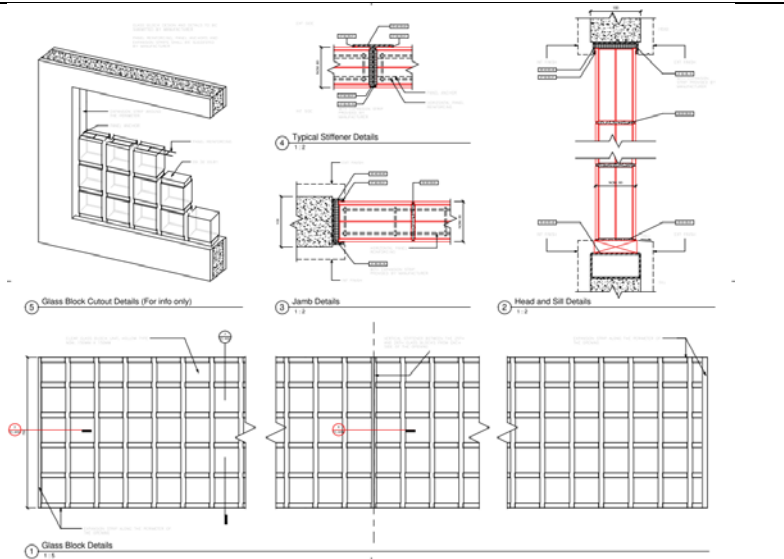
3	Detail design			
3.1	Drawing production for architecture, structure and MEP	Architectural, structural and MEP design	For government submission (GBP)	

3.2	Clash detection	Architectural, structural and MEP design	Design coordination		
3.3	Spatial validation checks for headroom and working space	Architectural, structural and MEP design (all levels shall be clearly mentioned)	For building and services design, building operations and maintenance activities checking		
3.4	Drawing revision	Architectural, structural and MEP design revisions	Make sure all 2D and 3D information update and consistent	 <p>Based on Drawing CS1591-FP005 dated 18-09-2015, the headroom of staircase between grid 6-6 is not sufficient.</p>	

3.6	Animation	Architectural, structural, MEP and landscape design	To visualize the design in virtual reality for design checking	
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4Tender / Construction												
4.1	Clash detection revision	Architectural, structural and MEP design revisions	Constantly clash checking to avoid design fault to minimize unnecessary construction cost	<div><p>CLASH BETWEEN PHE PIPE & HVAC DUCT</p><p>ME DUCTS CLASH QUERY</p><table><tr><td>Anticipated date of response</td><td>21 Jul 2015</td></tr><tr><td>Anticipated completion</td><td>2017/06/01/2017</td></tr><tr><td>Status</td><td></td></tr><tr><td>Remarks</td><td>Please refer to the table and the RFI for details.</td></tr></table><p>Proposed Solution/ Alternative Proposal</p><p>RESPONSE TO RFI</p><p>Date: _____</p><p>Response: _____</p><p>HVAC LAYOUT PLAN- MEZZANINE FLOOR (2 OF 2) Dated on JUL 2015 GRID 14/C</p></div>	Anticipated date of response	21 Jul 2015	Anticipated completion	2017/06/01/2017	Status		Remarks	Please refer to the table and the RFI for details.
Anticipated date of response	21 Jul 2015											
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Remarks	Please refer to the table and the RFI for details.											

4.2	Drawing production	Architectural, structural and MEP design revisions	Construction drawings		
4.3	Schedule revision	Architectural, structural and MEP design revisions, material revisions	For quantity take off	<div><div><div><div>11320 Owner NTP for Temp Facilities/Installation</div><div>11380 Owner NTP for Package #2 Work</div><div>11400 Site Survey - Locate Existing Utility</div><div>11210 Owner NTP for Package #2 Work</div><div>11230 Submit Safety Documentation for Package #1</div><div>11340 Owner Review/Approval of Safety Docs for Pkg #1</div><div>11350 Owner NTP for Package #1 Work</div><div>11360 Owner NTP for Package #1 Work</div><div>11370 Owner NTP for Package #1 Work</div><div>11380 Owner NTP for Package #1 Work</div><div>11390 Owner NTP for Package #1 Work</div><div>11400 Owner NTP for Package #1 Work</div><div>11410 Owner NTP for Package #1 Work</div><div>11420 Owner NTP for Package #1 Work</div><div>11430 Owner NTP for Package #1 Work</div><div>11440 Owner NTP for Package #1 Work</div><div>11450 Owner NTP for Package #1 Work</div><div>11460 Owner NTP for Package #1 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4.4

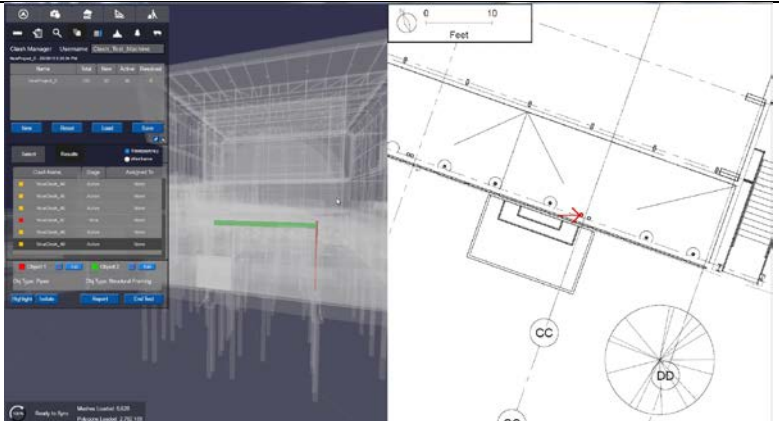
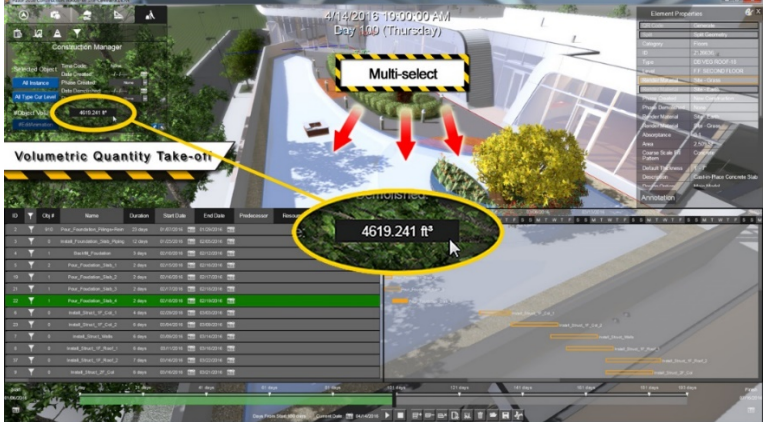
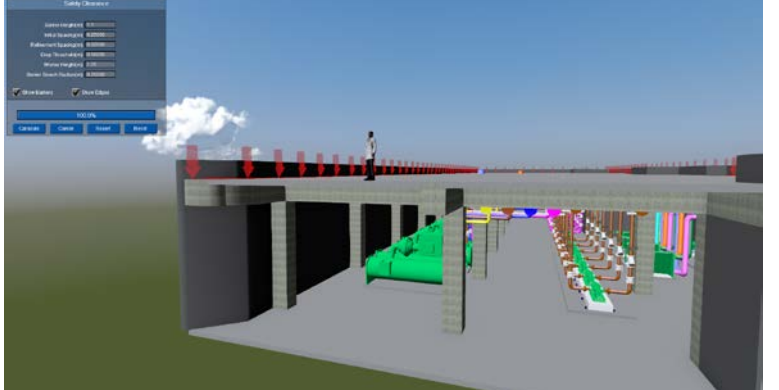
4D animation for construction sequence

Architectural, structural and MEP design revisions; construction programme and method statement

Construction sequence checking, clash between trades could be detected before commencement.



4.5	Shop drawing	Shop drawing and method statement	Shop drawing produced from BIM model to ensure the drawing and model are consistent	<p>The drawings illustrate the design of an acoustic wooden wall panel and a counter at the main entrance. The top section includes two 3D views of the wall panel (1 and 2) and three elevations (1, 2, 3). The bottom section includes a 3D cutaway of the counter (1), two sections (2, 3), and two elevations (1, 2) at the main entrance.</p> <p>Top Section: Acoustic Wooden Wall Panel</p> <ul style="list-style-type: none"> 1. ACUSTIC WOODEN WALL PANEL 3D VIEW 2 2. ACUSTIC WOODEN WALL PANEL 3D VIEW 1 3. ACUSTIC WOODEN WALL PANEL LEFT ELEVATION 4. ACUSTIC WOODEN WALL PANEL RIGHT ELEVATION 5. ACUSTIC WOODEN WALL PANEL FRONT ELEVATION <p>Bottom Section: Counter at Main Entrance</p> <ul style="list-style-type: none"> 1. COUNTER 3D AT MAIN ENTRANCE (FOR REF. ONLY) 2. COUNTER SECTION AT MAIN ENTRANCE 3. COUNTER SECTION AT MAIN ENTRANCE 4. COUNTER ELEVATION AT MAIN ENTRANCE (G/F) 5. COUNTER PLAN AT MAIN ENTRANCE (G/F)
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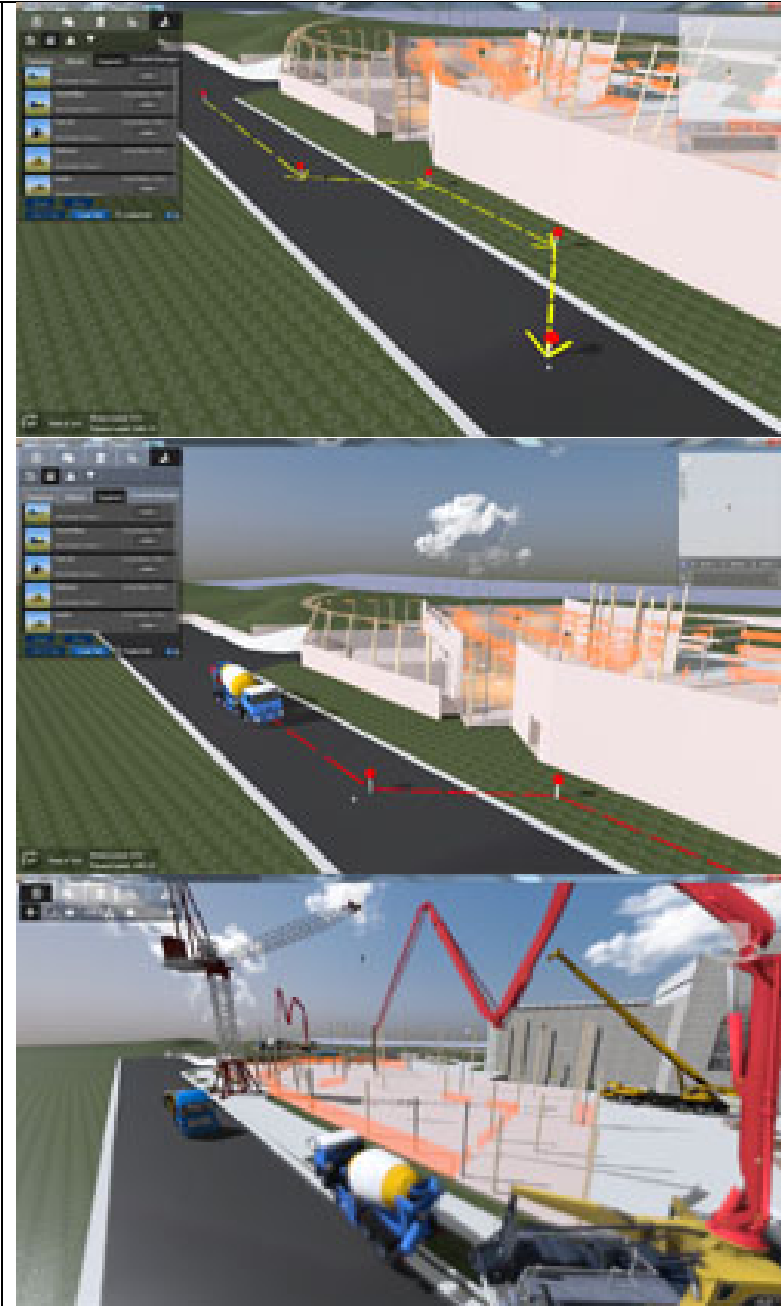
4.6	CSD	Architectural, structural, MEP drawings from contractor	test the feasibility of MEP ductwork / pipework, clash detection between MEP and Architecture / Structure		
4.7	Procurement, cash flow and payment	Contractor's design for architecture, structure and MEP, material and equipment to be used	Procurement, lead time and payment will affect the construction programme		
4.8	Construction safety check	Construction equipment	4D Construction simulation to highlight the construction sequence, while at the same time to visualize the temporary works during construction to ensure the site safety, delivery route, protective measures etc.		


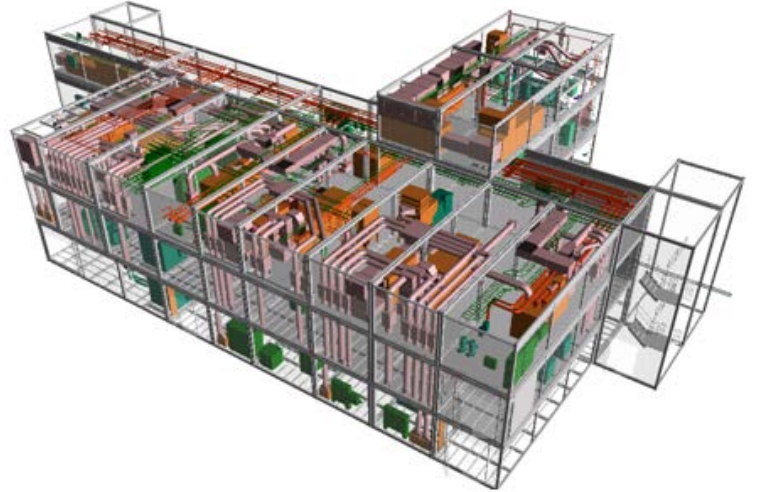
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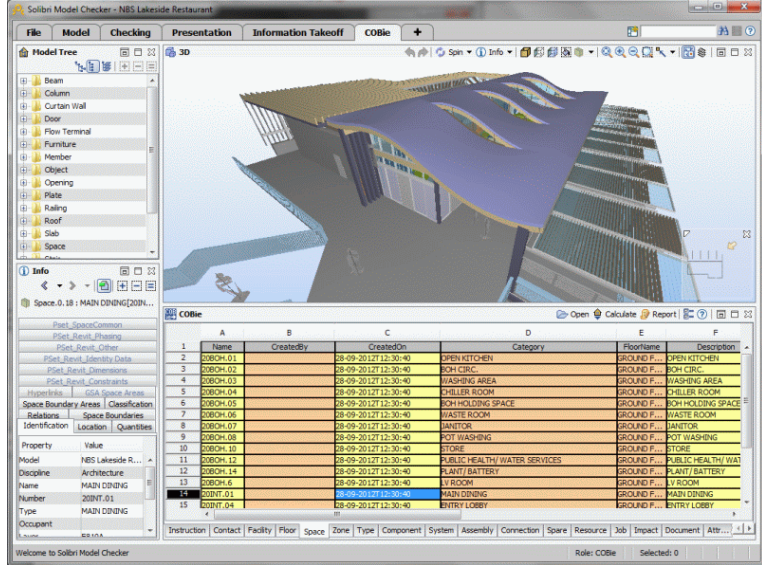
Site
management

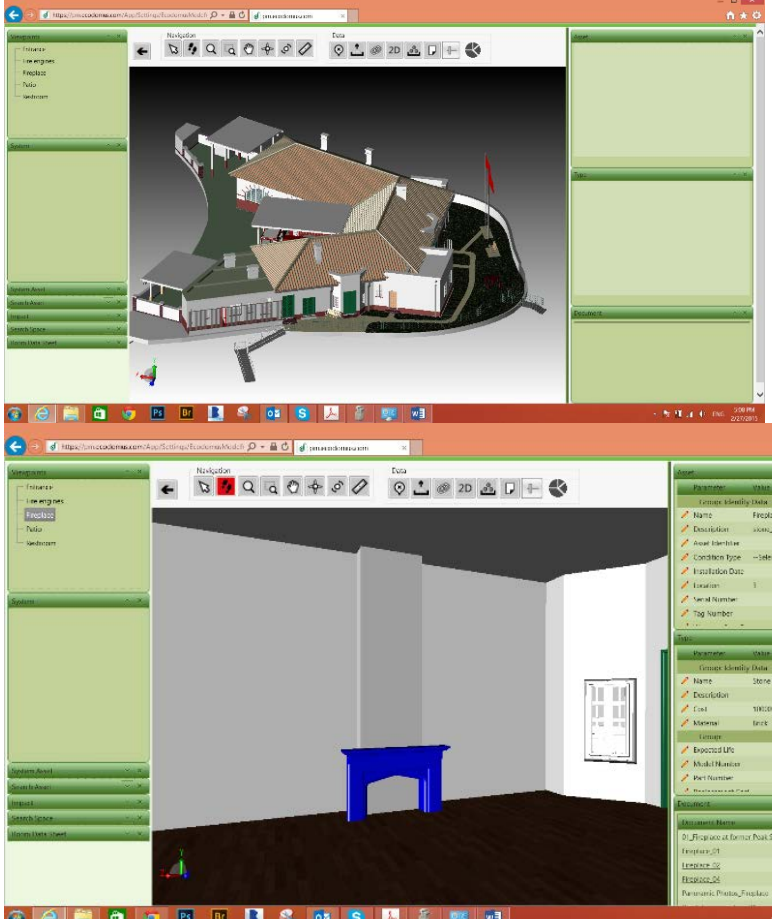
Procurement
schedule, lead time
and site logistic
planning, installation
detail

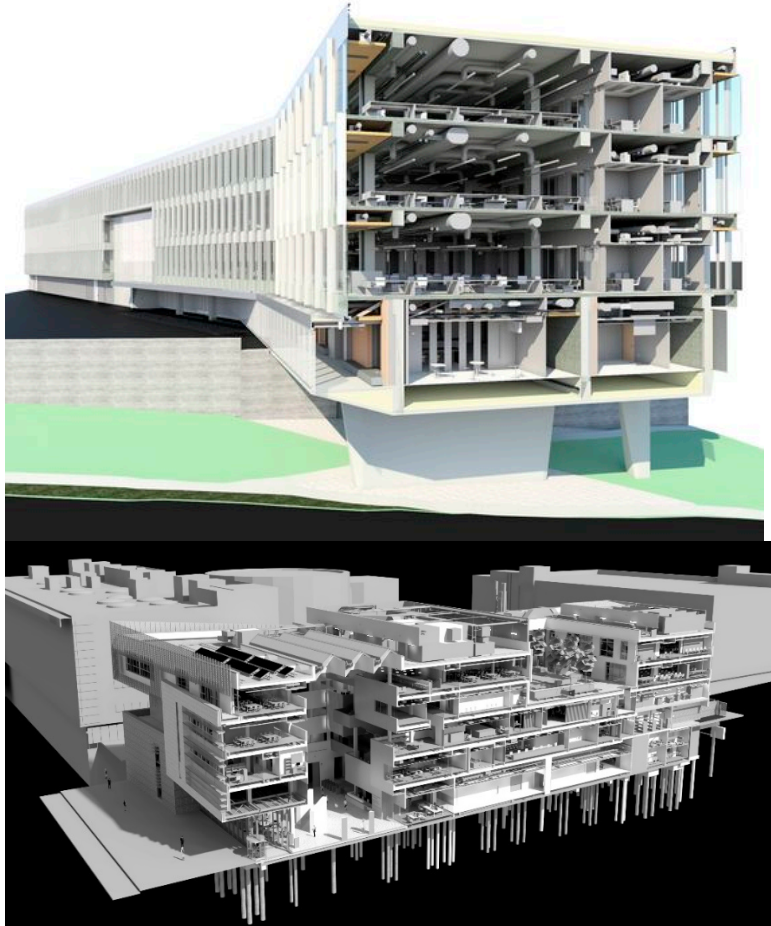
To utilize the 4D Construction
Simulation techniques facilitate
the site planning - material
storage, delivery path, hoist
management and installation
logistics.




5 Construction completed				
5.1	As-built model	Contractor's architecture, structure, MEP and landscape design, and MEP equipment	Related information to be stored in the model, extra information to future facility management purpose will be added	 

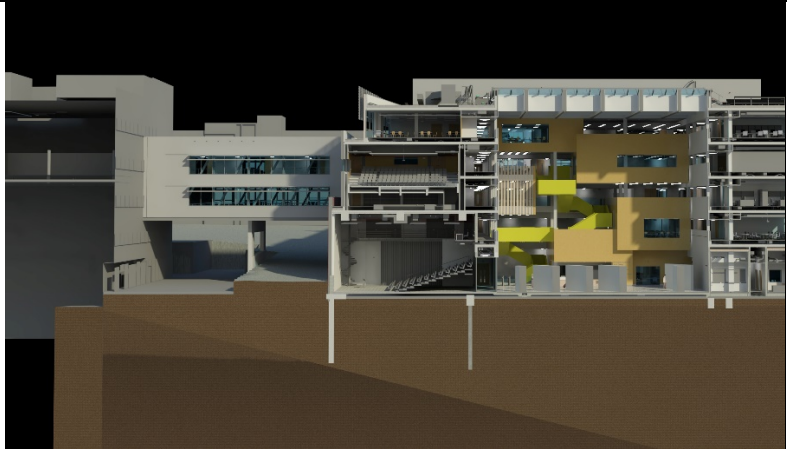
5.2	COBIE	Material, O&M manual, warranty and maintenance information	The information will be export and re-store into model in EcoDomus for facility management purpose	 <p>The screenshot displays the Solibri Model Checker software interface. The top menu bar includes File, Model, Checking, Presentation, Information Takeoff, and COBie. The left sidebar shows a Model Tree with categories like Beam, Column, Curtain Wall, etc. The main window features a 3D perspective view of a building model. Below the 3D view, the COBie table is visible, containing columns for Name, CreatedBy, CreatedOn, Category, FloorName, and Description. The table lists various building components and their associated data.</p> <table><thead><tr><th></th><th>A</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th></tr><tr><th></th><th>Name</th><th>Createdby</th><th>CreatedOn</th><th>Category</th><th>FloorName</th><th>Description</th></tr></thead><tbody><tr><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td>DOCKH.01</td><td></td><td>28-09-2012T12:30:40</td><td>OPEN KITCHEN</td><td>GROUND F...</td><td>OPEN KITCHEN</td></tr><tr><td>3</td><td>DOCKH.02</td><td></td><td>28-09-2012T12:30:40</td><td>KCH CIRC</td><td>GROUND F...</td><td>KCH CIRC</td></tr><tr><td>4</td><td>DOCKH.03</td><td></td><td>28-09-2012T12:30:40</td><td>WASHING AREA</td><td>GROUND F...</td><td>WASHING AREA</td></tr><tr><td>5</td><td>DOCKH.04</td><td></td><td>28-09-2012T12:30:40</td><td>CHILLER ROOM</td><td>GROUND F...</td><td>CHILLER ROOM</td></tr><tr><td>6</td><td>DOCKH.05</td><td></td><td>28-09-2012T12:30:40</td><td>KCH HOLDING SPACE</td><td>GROUND F...</td><td>KCH HOLDING SPACE</td></tr><tr><td>7</td><td>DOCKH.06</td><td></td><td>28-09-2012T12:30:40</td><td>WASTE ROOM</td><td>GROUND F...</td><td>WASTE ROOM</td></tr><tr><td>8</td><td>DOCKH.07</td><td></td><td>28-09-2012T12:30:40</td><td>JANITOR</td><td>GROUND F...</td><td>JANITOR</td></tr><tr><td>9</td><td>DOCKH.08</td><td></td><td>28-09-2012T12:30:40</td><td>POT WASHING</td><td>GROUND F...</td><td>POT WASHING</td></tr><tr><td>10</td><td>DOCKH.10</td><td></td><td>28-09-2012T12:30:40</td><td>STORE</td><td>GROUND F...</td><td>STORE</td></tr><tr><td>11</td><td>DOCKH.12</td><td></td><td>28-09-2012T12:30:40</td><td>PUBLIC HEALTHY WATER SERVICES</td><td>GROUND F...</td><td>PUBLIC HEALTHY WAT</td></tr><tr><td>12</td><td>DOCKH.14</td><td></td><td>28-09-2012T12:30:40</td><td>PLANT/BATTERY</td><td>GROUND F...</td><td>PLANT/BATTERY</td></tr><tr><td>13</td><td>DOCKH.6</td><td></td><td>28-09-2012T12:30:40</td><td>U ROOM</td><td>GROUND F...</td><td>U ROOM</td></tr><tr><td>14</td><td>DOCKH.01</td><td></td><td>28-09-2012T12:30:40</td><td>MAIN DINING</td><td>GROUND F...</td><td>MAIN DINING</td></tr><tr><td>15</td><td>DOCKH.04</td><td></td><td>28-09-2012T12:30:40</td><td>ENTRY LOBBY</td><td>GROUND F...</td><td>ENTRY LOBBY</td></tr></tbody></table>		A	B	C	D	E	F		Name	Createdby	CreatedOn	Category	FloorName	Description	1							2	DOCKH.01		28-09-2012T12:30:40	OPEN KITCHEN	GROUND F...	OPEN KITCHEN	3	DOCKH.02		28-09-2012T12:30:40	KCH CIRC	GROUND F...	KCH CIRC	4	DOCKH.03		28-09-2012T12:30:40	WASHING AREA	GROUND F...	WASHING AREA	5	DOCKH.04		28-09-2012T12:30:40	CHILLER ROOM	GROUND F...	CHILLER ROOM	6	DOCKH.05		28-09-2012T12:30:40	KCH HOLDING SPACE	GROUND F...	KCH HOLDING SPACE	7	DOCKH.06		28-09-2012T12:30:40	WASTE ROOM	GROUND F...	WASTE ROOM	8	DOCKH.07		28-09-2012T12:30:40	JANITOR	GROUND F...	JANITOR	9	DOCKH.08		28-09-2012T12:30:40	POT WASHING	GROUND F...	POT WASHING	10	DOCKH.10		28-09-2012T12:30:40	STORE	GROUND F...	STORE	11	DOCKH.12		28-09-2012T12:30:40	PUBLIC HEALTHY WATER SERVICES	GROUND F...	PUBLIC HEALTHY WAT	12	DOCKH.14		28-09-2012T12:30:40	PLANT/BATTERY	GROUND F...	PLANT/BATTERY	13	DOCKH.6		28-09-2012T12:30:40	U ROOM	GROUND F...	U ROOM	14	DOCKH.01		28-09-2012T12:30:40	MAIN DINING	GROUND F...	MAIN DINING	15	DOCKH.04		28-09-2012T12:30:40	ENTRY LOBBY	GROUND F...	ENTRY LOBBY
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3	DOCKH.02		28-09-2012T12:30:40	KCH CIRC	GROUND F...	KCH CIRC																																																																																																																					
4	DOCKH.03		28-09-2012T12:30:40	WASHING AREA	GROUND F...	WASHING AREA																																																																																																																					
5	DOCKH.04		28-09-2012T12:30:40	CHILLER ROOM	GROUND F...	CHILLER ROOM																																																																																																																					
6	DOCKH.05		28-09-2012T12:30:40	KCH HOLDING SPACE	GROUND F...	KCH HOLDING SPACE																																																																																																																					
7	DOCKH.06		28-09-2012T12:30:40	WASTE ROOM	GROUND F...	WASTE ROOM																																																																																																																					
8	DOCKH.07		28-09-2012T12:30:40	JANITOR	GROUND F...	JANITOR																																																																																																																					
9	DOCKH.08		28-09-2012T12:30:40	POT WASHING	GROUND F...	POT WASHING																																																																																																																					
10	DOCKH.10		28-09-2012T12:30:40	STORE	GROUND F...	STORE																																																																																																																					
11	DOCKH.12		28-09-2012T12:30:40	PUBLIC HEALTHY WATER SERVICES	GROUND F...	PUBLIC HEALTHY WAT																																																																																																																					
12	DOCKH.14		28-09-2012T12:30:40	PLANT/BATTERY	GROUND F...	PLANT/BATTERY																																																																																																																					
13	DOCKH.6		28-09-2012T12:30:40	U ROOM	GROUND F...	U ROOM																																																																																																																					
14	DOCKH.01		28-09-2012T12:30:40	MAIN DINING	GROUND F...	MAIN DINING																																																																																																																					
15	DOCKH.04		28-09-2012T12:30:40	ENTRY LOBBY	GROUND F...	ENTRY LOBBY																																																																																																																					

6	Facility management				
6.1	Model and COBie information re-combine in EcoDomus for facility management	Model: contractor's design for architecture, structure, MEP and related equipment, landscape design Information: information that facility management required, e.g. material, O&M manual and warranty	Extra time and human resource required for facility management because of the insufficient information, massive information could be centralize and accessible when BIM technology introduced into facility management		

7	Marketing purpose			
7.1	Perspective	Architectural, structural, MEP and landscape design, material, color selection and tree information	Generated directly from BIM model, which is tally with the construction model, minimize the possibility of argument since the inconsistency of market drawing and actual built area	

7.2	3D printing	Architectural, structural, MEP and landscape design, material, color selection and tree information	Generated directly from BIM model, which is tally with the construction model, minimize the possibility of argument since the inconsistency of market drawing and actual built area	
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7.3	Animation for interior and exterior	Architectural, structural, MEP and landscape design, material, color selection and tree information	Generated directly from BIM model, which is tally with the construction model, minimize the possibility of argument since the inconsistency of market drawing and actual built area	 
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7.4	Color plan or isometric perspective	General arrangement plan, interior design including furniture, material and color selection	Generated directly from BIM model, which is tally with the construction model, minimize the possibility of argument since the inconsistency of market drawing and actual built area	
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7.5	Sales brochure	Leasable area and material selection	Generated directly from BIM model, which is tally with the construction model, minimize the possibility of argument since the inconsistency of market drawing and actual built area
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7.6

Area schedule
and unit price

Architectural design
and unit price

Generated directly from BIM
model, which is tally with the
construction model, minimize
the possibility of argument since
the inconsistency of market
drawing and actual built area



Building 9 - [cost.rvt - Schedule: Cost Estimate]

Modeling Drafting Site Tools Settings Window Help

cost.rvt - Project browser

- Views (all)
 - Floor Plans
 - Ceiling Plans
 - 3D Views
 - Elevations (Building Elevation)
 - Drafting Views (Detail)
 - Area Plans (Cost Estimating)
 - 1st Floor
- Legends
- Schedules/Quantities
 - Sheets
 - Views
 - Cost Estimate**

Name	Area	Work	Cost	Estimated
Hardscape				
Area 1	429 SF	Addition	100	42675
Indoor Conditioned				
Area 2	429 SF	Addition	150	64312.5
Indoor Unconditioned				
Area 3	429 SF	Demolition	50	21437.5
Infrastructure				
Area 4	429 SF	Remodel	150	64312.5
				192937.5

7.7	Facility	Architectural, structural, MEP and landscape design	Generated directly from BIM model, which is tally with the construction model, minimize the possibility of argument since the inconsistency of market drawing and actual built area	 
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