

The background features a complex, organic, grey mesh structure that resembles a digital or biological form. A solid blue horizontal band runs across the middle of the image, serving as a backdrop for the text.

Closing the Digital Loop

The Practical Application of BIM

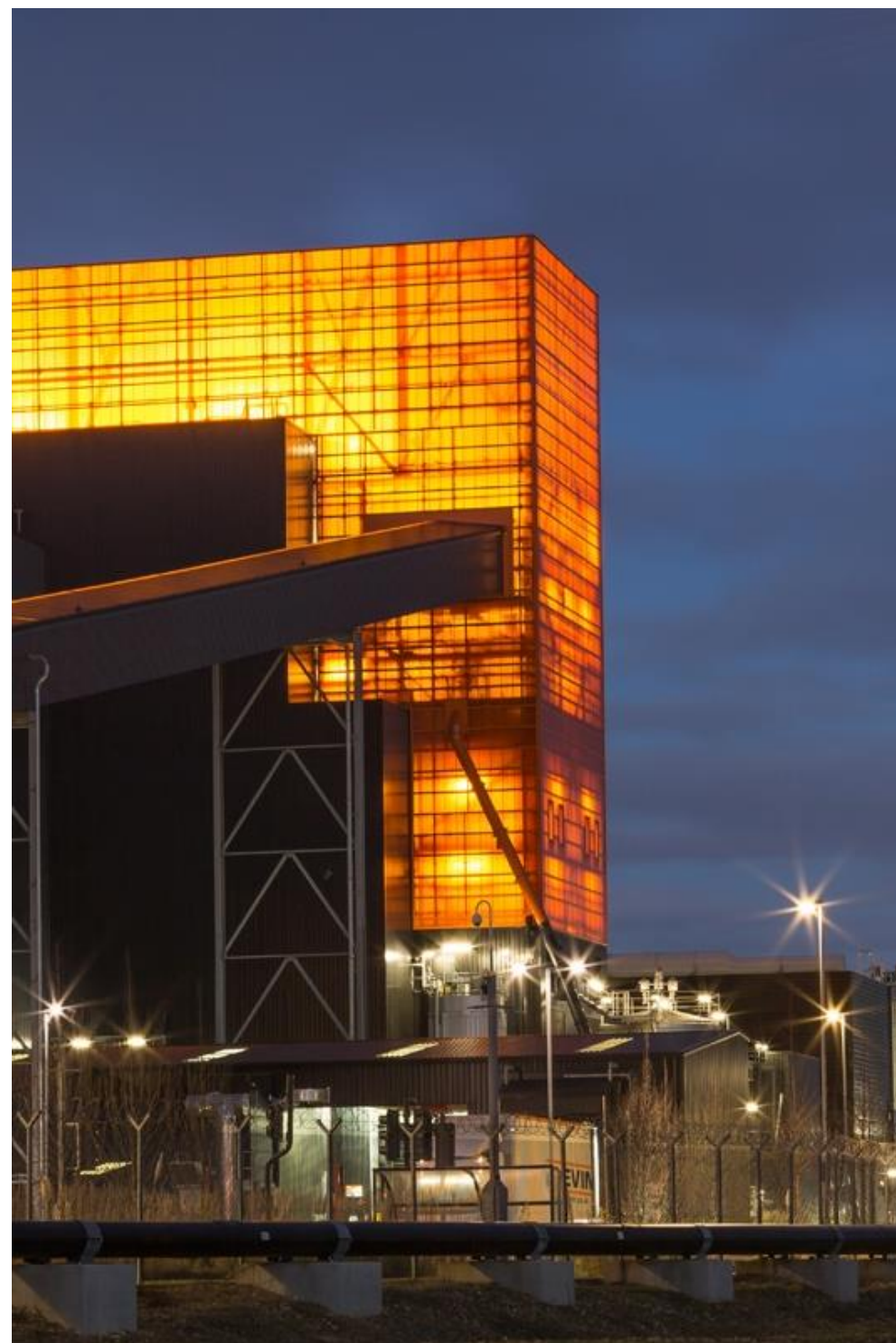
Elliott Crossley

Associate, BDP.

Join the conversation [#AULondon](#)

BDP.

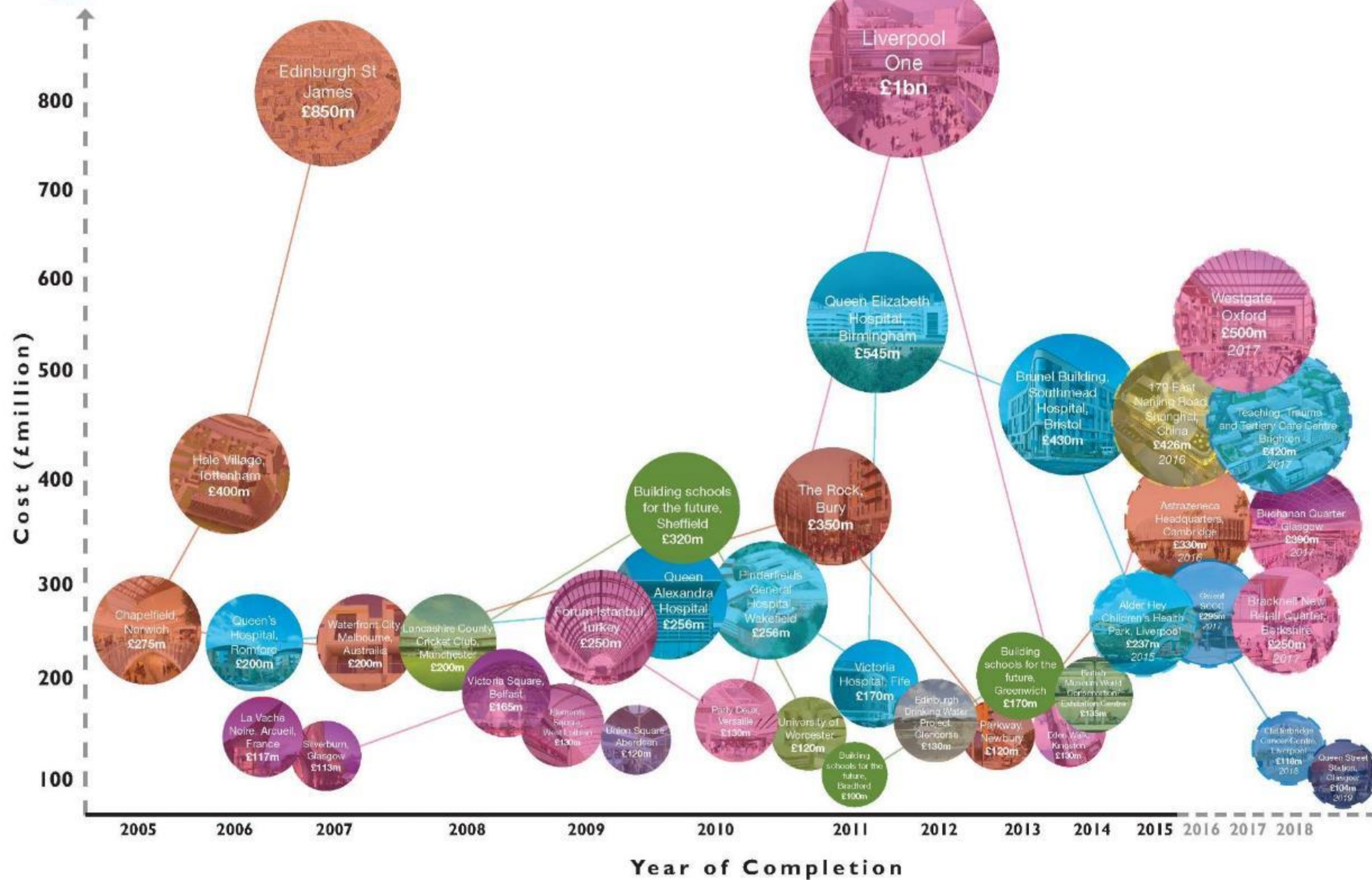








BDP. Commissions over £100 million from 2005





“Anyone who believes infinite growth is compatible with a finite world is either a madman or an economist.”

Lower Costs

33%

Reduction in the initial cost of construction and the whole life cost of built assets

Faster Delivery

50%

Reduction in overall time, from inception to overall completion, of newbuild and refurbished assets

Lower Emissions

50%

Reduction in greenhouse gas emissions in the built environment

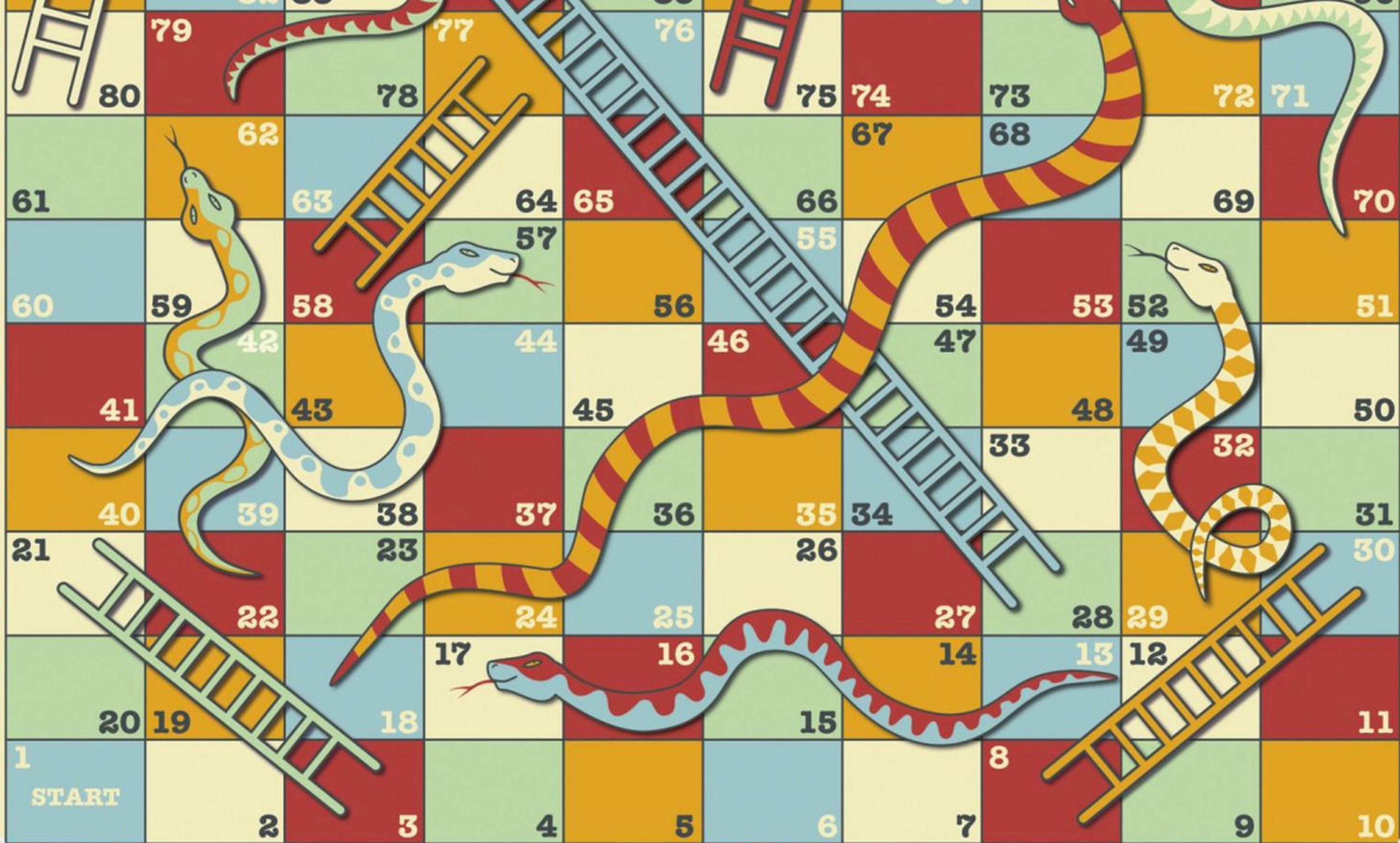
Improved Exports

50%

Reduction in the trade gap between total exports and total imports for construction products and materials

How can we design
complexity (*cost*) out
and quality in?





Practical Application of BIM











- Unplugged zone
- Connected Zone
- Office Base Zone
- Laboratories





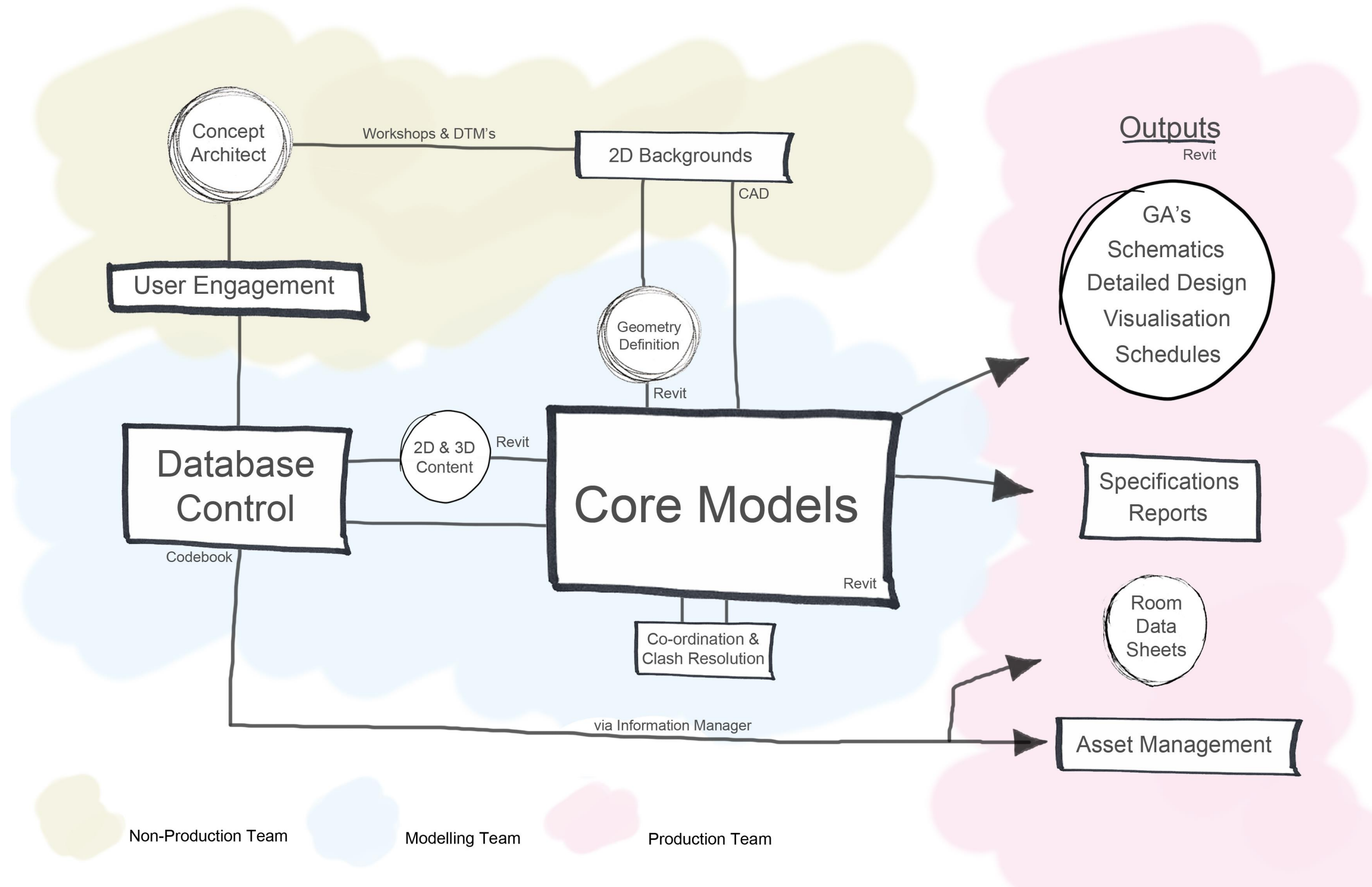
Stage 1: Preparation





“Our aim is to create an open, welcoming and vibrant centre that will inspire our teams and partners to push the boundaries of scientific innovation.”

Harness a Culture of Trust
within a Project Team to
Deliver a Single Vision



BDP.



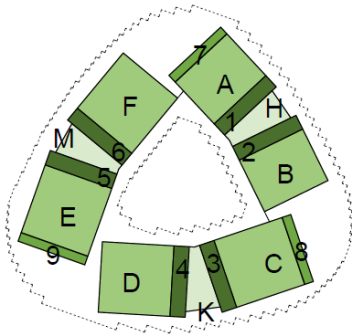
A 3D architectural rendering of a modern building. The building's facade is composed of numerous white, rectangular, rib-like elements that curve and overlap to form a shell-like, organic shape. The building is situated in an urban environment, with other buildings visible in the background. The foreground shows a paved area with some small, stylized figures of people. The overall style is clean and minimalist, with a focus on geometric forms and light colors.

Stage 2: Concept Design

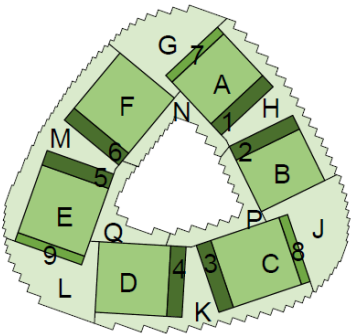
BIM Execution Plan

Volume 1 - Project
Implementation Plan (PIP)

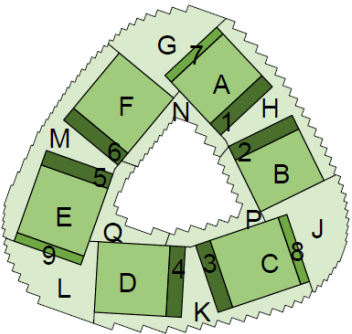
Project Title New Cambridge Site
Document Owner
Status S3 – Issued for internal review and comment



Zoning Strategy - L00
1 : 1250



Zoning Strategy - L10
1 : 1250

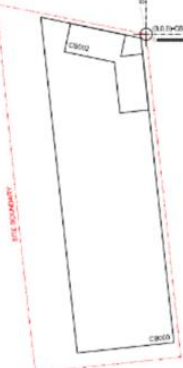


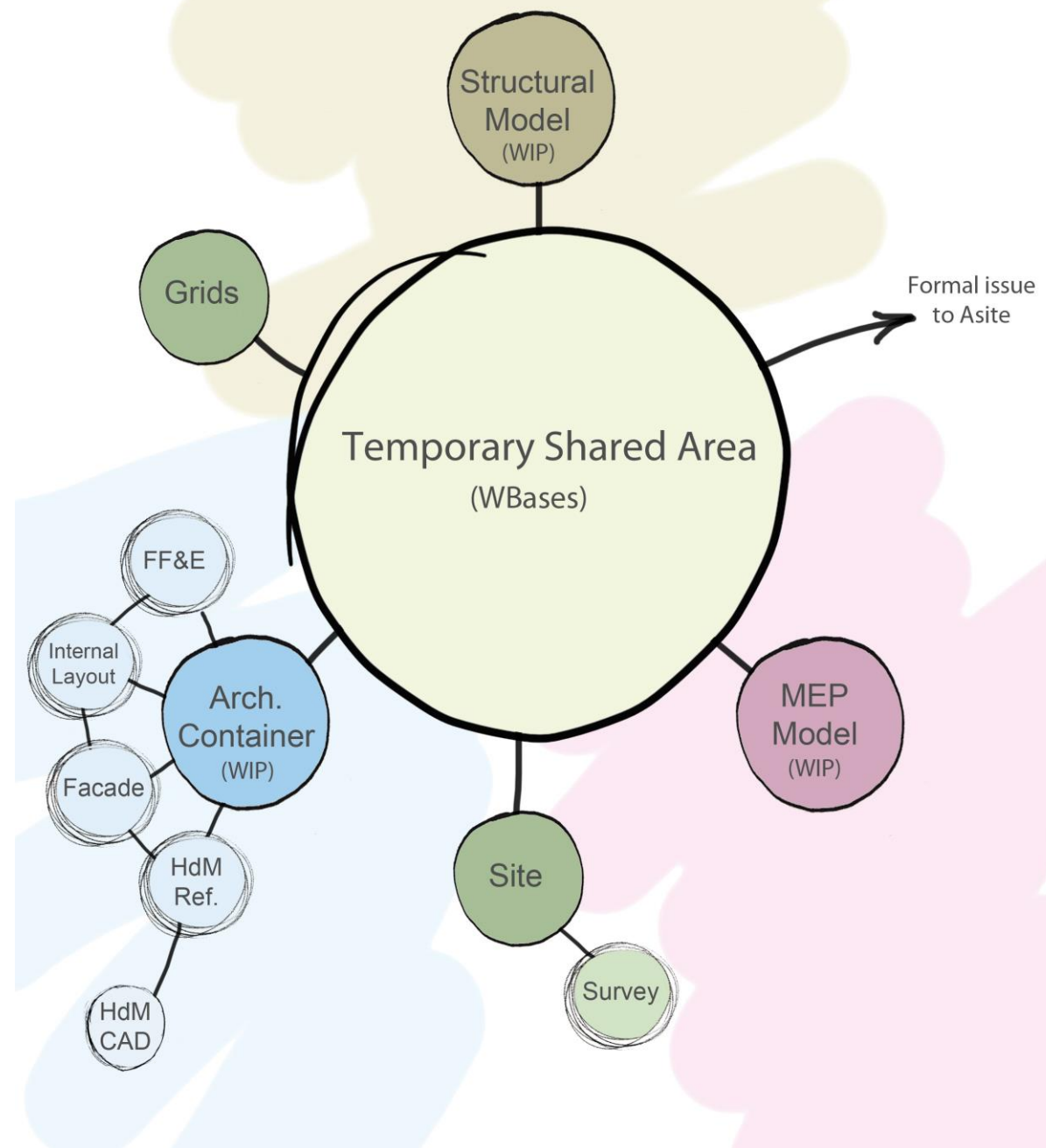
Zoning Strategy - L20
1 : 1250

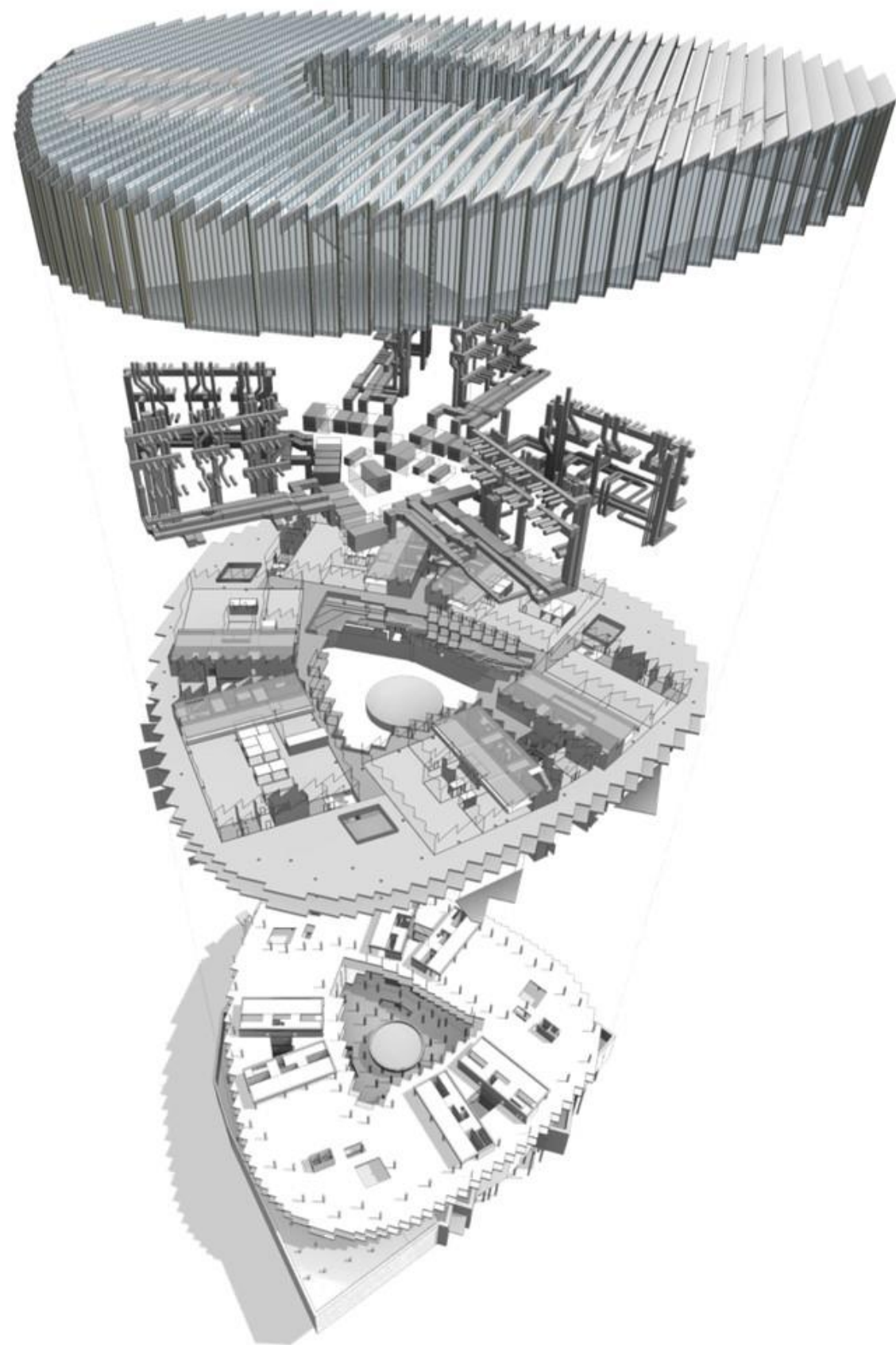
Project Information Model (PIM) origin and orientation

The origin and orientation of the project are based on the project location and its reference to other global or local grids, for example Ordnance Survey. Some projects have their own grid system. Crossrail, for instance, uses the London Grid specified for that project, as did the Olympics programme.
See the CPIC Production Information 2003 publication for specific requirements.

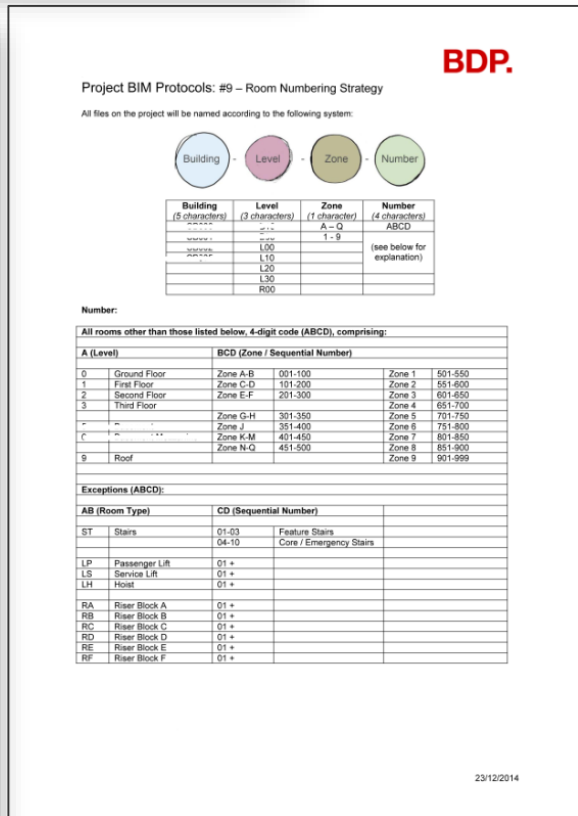
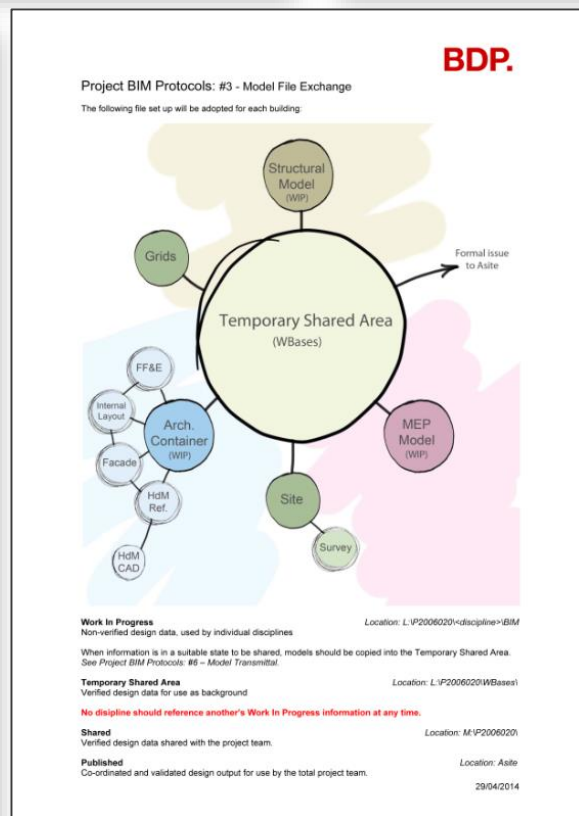
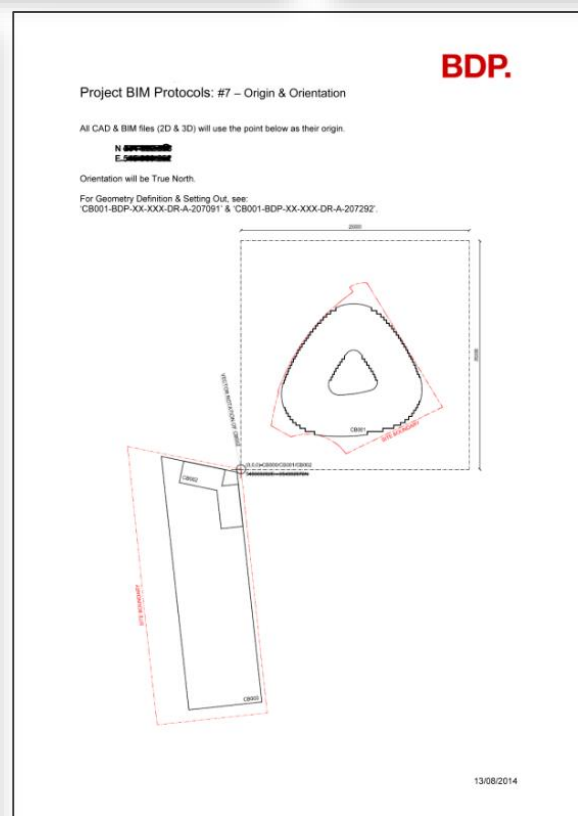
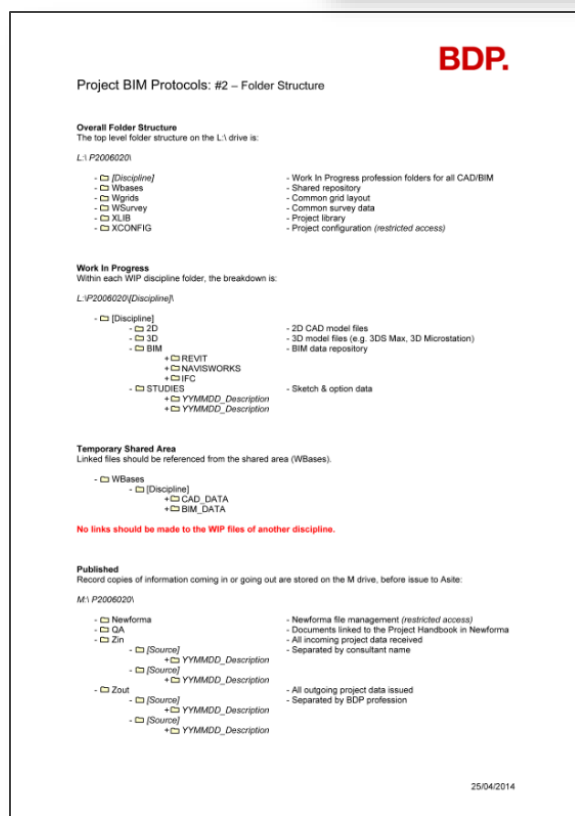
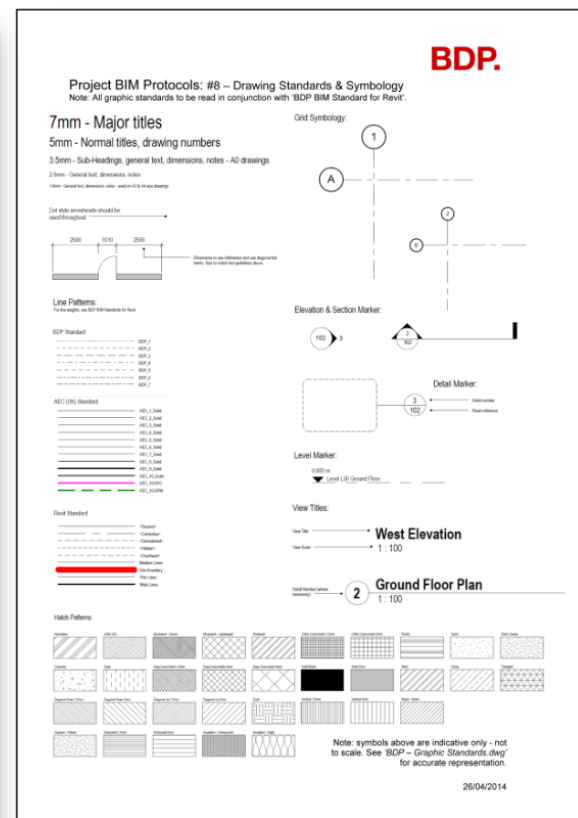
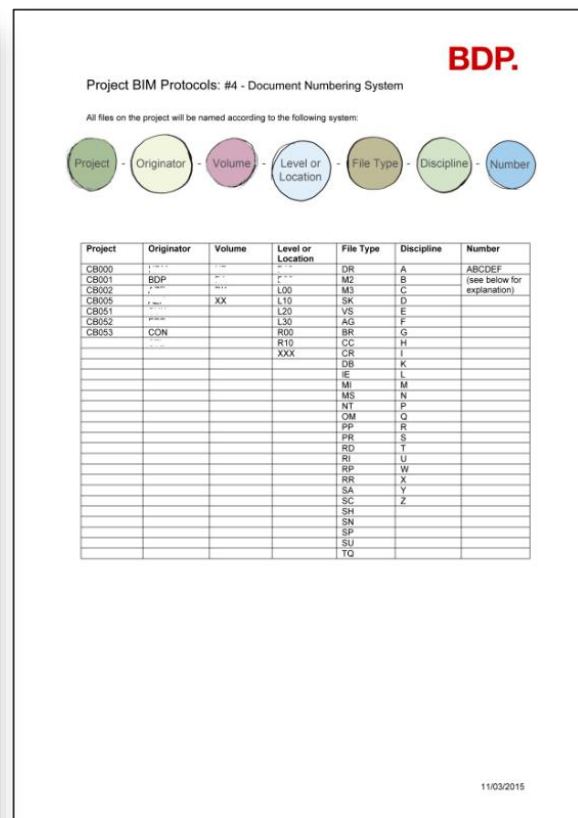
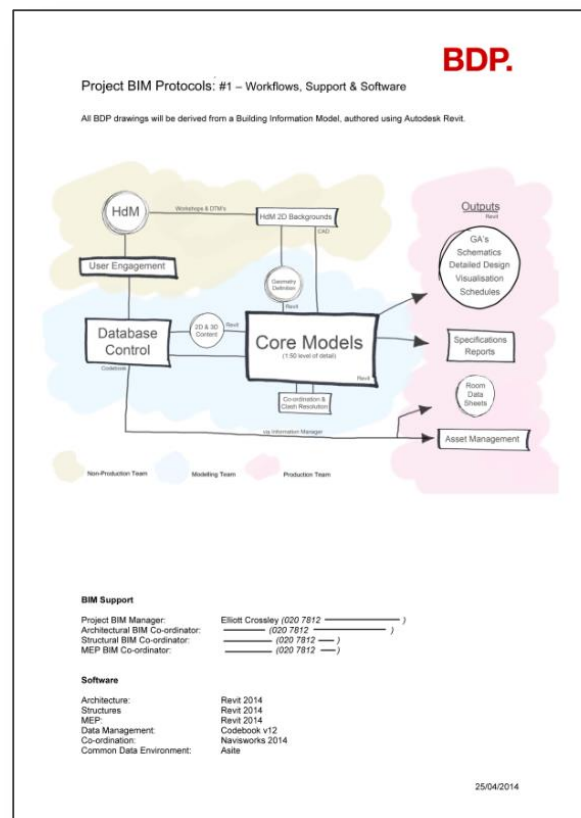
Site Origin:



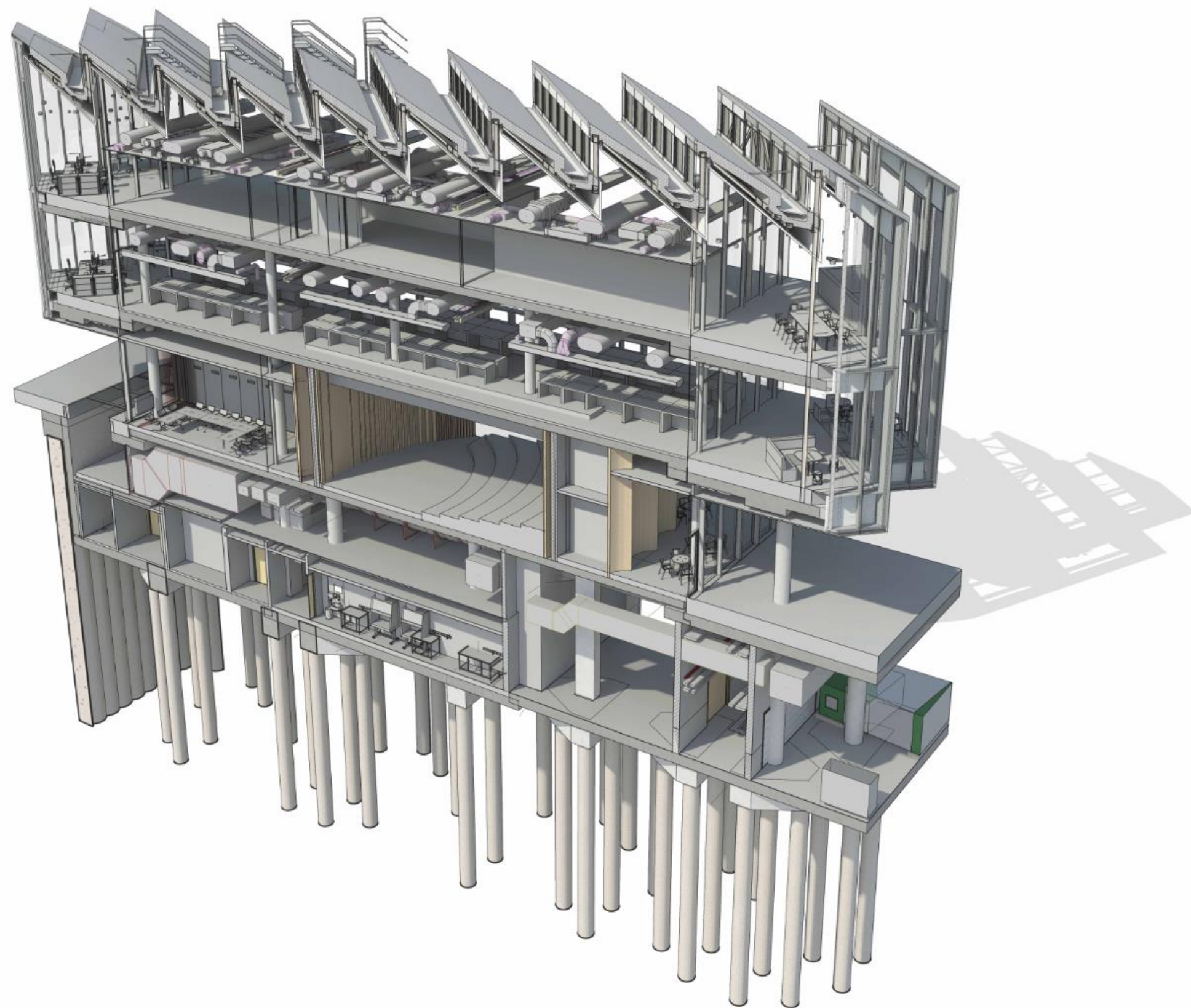




Plain Language Isn't
Just for Clients!

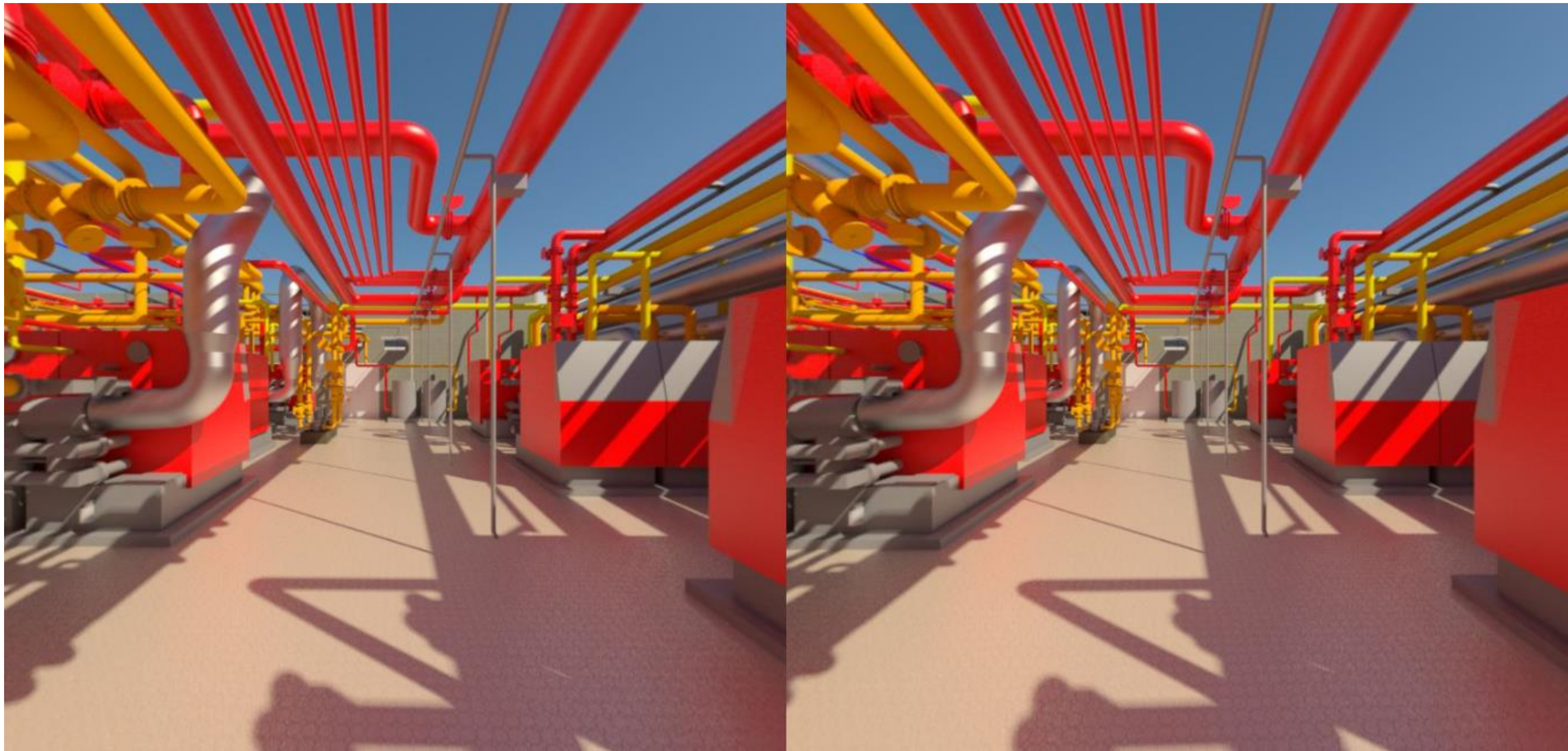


Stage 3: Developed Design





*experience a space
before it exists*





DOCUMENT REGISTER - BIM

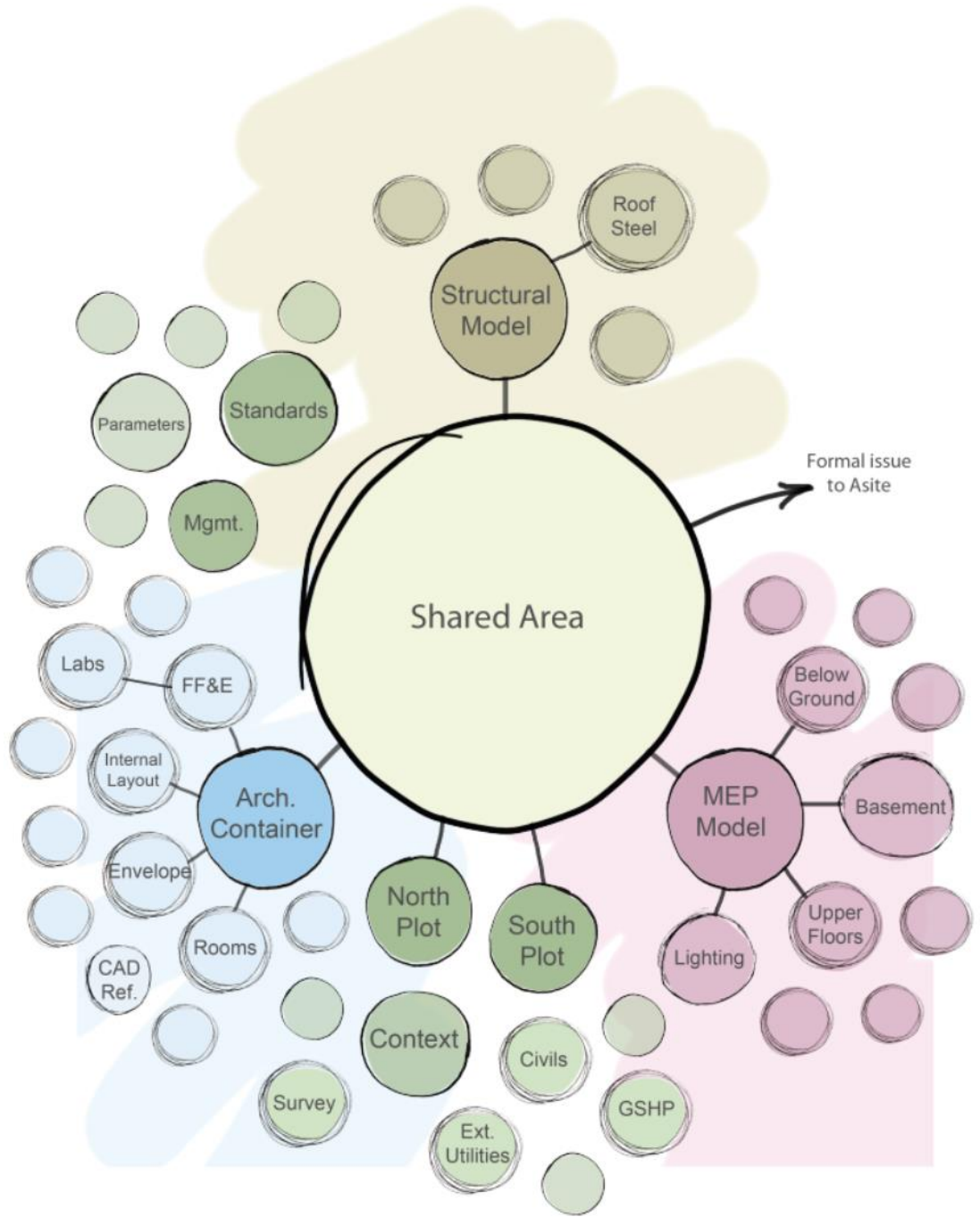
03.08.2015

Document Number	Title	Scale	Format	Responsibility					Notes	File Location	Expected Size
				Stage 2	Stage 3	Planning	Stage 4	Stage 5			
3D MODELS - Sitewide											
CB000-GRH-XX-XXX-M3-B-208001	Existing Survey	n/a	.nwc, .rvt	n/a	n/a	n/a	n/a	n/a		wSurvey	50 Mb
CB000-BDP-XX-XXX-M3-Z-208801	Masterplan Federated Model	n/a	.ifc, .nwd	BDP	BDP	BDP	BDP	BDP		Z/BIM	30 Mb
CB000-BDP-XX-XXX-M3-A-208901	CAD Reference	n/a	.nwc, .rvt	n/a	n/a	n/a	n/a	n/a		wBases	60 Mb
CB000-BDP-XX-XXX-M3-L-208002	North Plot Proposed Landscape	n/a	.nwc, .rvt	n/a	BDP - L	n/a	BDP - L	BDP - L		L/BIM	100 Mb
CB000-BDP-XX-XXX-M3-L-208003	South Plot Proposed Landscape	n/a	.nwc, .rvt	n/a	BDP - L	n/a	BDP - L	BDP - L		L/BIM	100 Mb
CB000-BDP-XX-XXX-M3-M-208701	External Utilities	n/a	.nwc, .rvt	n/a	n/a	n/a	BDP - M	BDP - M		M/BIM	100 Mb
CB000-BDP-XX-XXX-M3-C-208601	External Drainage	n/a	.nwc, .rvt	n/a	n/a	n/a	BDP - C	BDP - C		L/BIM	100 Mb
CB000-BDP-XX-XXX-M3-L-208004	Existing Context Model	n/a	.nwc, .rvt	n/a	BDP	n/a	BDP	BDP		L/BIM	100 Mb
3D MODELS - R&D Building											
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CB001-BDP-XX-XXX-M3-A-208101	Envelope	n/a	.nwc, .rvt	n/a	BDP - A	BDP - A	BDP - A	BDP - A		A/BIM	120 Mb
CB001-BDP-XX-XXX-M3-A-208201	Internal Layout	n/a	.nwc, .rvt	n/a	BDP - A	BDP - A	BDP - A	BDP - A		A/BIM	250 Mb
CB001-BDP-XX-XXX-M3-I-208301	Non-Laboratory FF&E	n/a	.nwc, .rvt	n/a	BDP - A	BDP - A	BDP - A	BDP - A		D/BIM	200 Mb
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CB001-BDP-XX-XXX-M3-Z-208501	Grids	n/a	.nwc, .rvt	BDP - A	BDP - A	BDP - A	BDP - A	BDP - A		A/BIM	10 Mb
CB001-BDP-XX-XXX-M3-S-208601	Structure	n/a	.nwc, .rvt	BDP-S	BDP-S	BDP-S	BDP-S	BDP-S		S/BIM	150 Mb
CB001-BDP-XX-XXX-M3-M-208701	MEP - Basement	n/a	.nwc, .rvt	BDP - M	BDP - M	BDP - M	BDP - M	BDP - M		M/BIM	200 Mb
CB001-BDP-XX-XXX-M3-Z-208801	R&D Building Federated Model	n/a	.ifc, .nwd	BDP	BDP	BDP	BDP	BDP		Z/BIM	400 Mb
3D MODELS - R&D Enabling Building											
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CB002-BDP-XX-XXX-M3-A-208201	Internal Layout	n/a	.nwc, .rvt	n/a	n/a	n/a	n/a	n/a		A/BIM	100 Mb
CB002-BDP-XX-XXX-M3-Z-208501	Grids	n/a	.nwc, .rvt	BDP - A	n/a	n/a	n/a	n/a		wGrids	10 Mb
CB002-BDP-XX-XXX-M3-S-208601	Structure	n/a	.nwc, .rvt	BDP - S	n/a	n/a	n/a	n/a		S/BIM	60 Mb
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3D MODELS - Energy Centre											
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3D MODELS - Service Corridor & Misc											
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DOCUMENT REGISTER - BIM

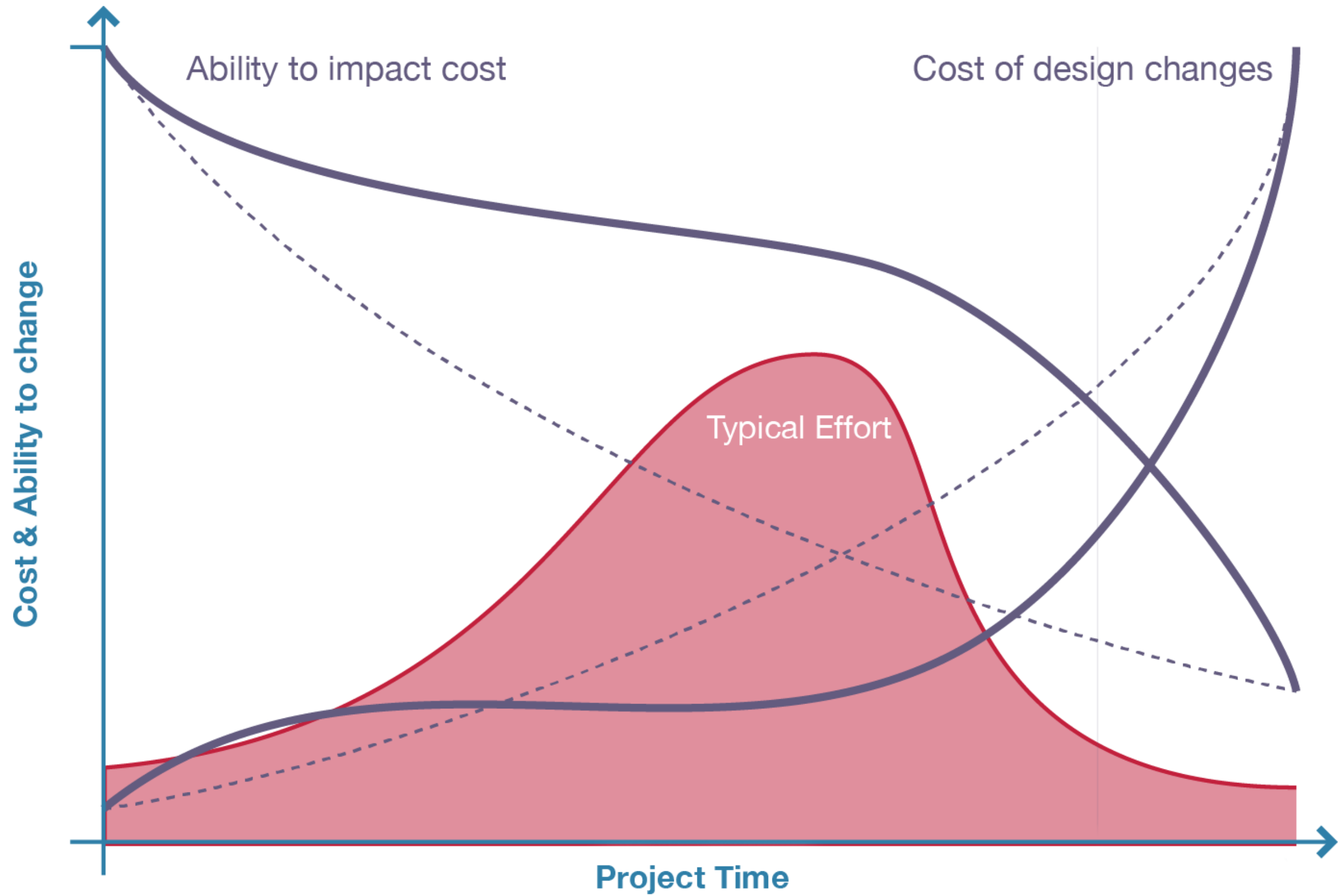
03.08.2015

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3D MODELS - Sitewide											
CB000-GRH-XX-XXX-M3-B-208001	Existing Survey	n/a	.nwc, .rvt	n/a	n/a	n/a	n/a	n/a		wSurvey	50 Mb
CB000-BDP-XX-XXX-M3-Z-208801	Masterplan Federated Model	n/a	.ifc, .nwd	BDP	BDP	BDP	BDP	BDP		Z/BIM	30 Mb
CB000-BDP-XX-XXX-M3-A-208901	CAD Reference	n/a	.nwc, .rvt	n/a	n/a	n/a	n/a	n/a		wBases	60 Mb
CB000-BDP-XX-XXX-M3-L-208002	North Plot Proposed Landscape	n/a	.nwc, .rvt	n/a	BDP - L	n/a	BDP - L	BDP - L		L/BIM	100 Mb
CB000-BDP-XX-XXX-M3-L-208003	South Plot Proposed Landscape	n/a	.nwc, .rvt	n/a	BDP - L	n/a	BDP - L	BDP - L		L/BIM	100 Mb
CB000-BDP-XX-XXX-M3-M-208701	External Utilities	n/a	.nwc, .rvt	n/a	n/a	n/a	BDP - M	BDP - M		M/BIM	100 Mb
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CB001-BDP-XX-XXX-M3-M-208702	MEP - L00 and Upper Floors	n/a	.nwc, .rvt	BDP - M	BDP - M	BDP - M	BDP - M	BDP - M		M/BIM	200 Mb
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CB002-BDP-XX-XXX-M3-M-208701	MEP	n/a	.nwc, .rvt	BDP - M	n/a	n/a	n/a	n/a		M/BIM	100 Mb
CB002-BDP-XX-XXX-M3-Z-208801	R&D Enabling Building Federated Model	n/a	.ifc, .nwd	BDP	n/a	n/a	n/a	n/a		Z/BIM	200 Mb
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CB005-BDP-XX-XXX-M3-M-208701	MEP	n/a	.nwc, .rvt	BDP - M	BDP - M	BDP - M	BDP - M	BDP - M		M/BIM	100 Mb
CB005-BDP-XX-XXX-M3-N-208704	Lighting	n/a	.nwc, .rvt	n/a	n/a	n/a	BDP - N	BDP - N		M/BIM	100 Mb
CB005-BDP-XX-XXX-M3-Z-208801	Energy Centre Federated Model	n/a	.ifc, .nwd	BDP	BDP	BDP	BDP	BDP		Z/BIM	200 Mb
3D MODELS - Service Corridor & Misc											
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CB051-BDP-XX-XXX-M3-S-208601	Services Corridor	n/a	.nwc, .rvt	n/a	n/a	n/a	BDP	BDP		S/BIM	30 Mb
CB051-BDP-XX-XXX-M3-M-208701	Services Corridor	n/a	.nwc, .rvt	n/a	BDP - M	n/a	BDP - M	BDP - M		M/BIM	50 Mb
CB051-BDP-XX-XXX-M3-N-208704	Lighting	n/a	.nwc, .rvt	n/a	n/a	n/a	BDP - N	BDP - N		M/BIM	100 Mb
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The Problem with...

Change Management



Stage 4: Technical Design



RTV Drawing Manager 2014

HomeProject SettingsMy Settings

NewEditDeleteInsertExportWork PackageImportSyncPrintIssueProject

Tag CloudsRemove LinkIssue HistoryTransmittal ReportSave SetDelete SetExport Set

Enter a sheet set name
Create Revit Print Sheet Set
Delete Revit Print Sheet Set

Revit SheetsExternal DocumentsRevit ViewsWork Packages

Project Sheets: Total = 412Filter Total = 64Selection Total = 0

Stage 2

Drag a column header here to group by that column

			Project	Originator	Volume	Level	File Type	Discipline	CI/SFB	Document ...	Scale	Number	Revision	Sheet Name
									20					
			CB005	BDP	XX	L00	DR	A	20	1	2	00	P11	Energy Centre GA Plan - Ground Floor
			CB005	BDP	XX	L00	DR	A	20	1	2	01	P02	Energy Centre - CDM Residual Risk - Ground Floor
			CB005	BDP	XX	L00	DR	A	20	1	3	00	P05	Energy Centre Ground Floor - GA Plan - Setting out
			CB005	BDP	XX	L00	DR	A	20	1	7	01	P03	Energy Centre GA Plan - Ground Floor - Toilet Core
			CB005	BDP	XX	L10	DR	A	20	1	2	10	P10	Energy Centre GA Plan - First Floor
			CB005	BDP	XX	L10	DR	A	20	1	2	11	P02	Energy Centre - CDM Residual Risk - First Floor
			CB005	BDP	XX	L10	DR	A	20	1	3	10	P05	Energy Centre First Floor- GA Plan - Setting out
			CB005	BDP	XX	L10	DR	A	20	1	7	02	P03	Energy Centre GA Plan - First Floor - Toilet Core
			CB005	BDP	XX	L10	DR	A	20	1	7	03	P01	Layouts Placeholder First Floor
			CB005	BDP	XX	L10	DR	A	20	1	7	04	P01	Layouts Placeholder First Floor
			CB005	BDP	XX	L20	DR	A	20	1	2	20	P10	Energy Centre GA Plan - Second Floor
			CB005	BDP	XX	L20	DR	A	20	1	2	21	P02	Energy Centre - CDM Residual Risk - Second Floor
			CB005	BDP	XX	L20	DR	A	20	1	3	20	P05	Energy Centre Second Floor - GA Plan - Setting out
			CB005	BDP	XX	L30	DR	A	20	1	2	30	P11	Energy Centre GA Plan - Third Floor
			CB005	BDP	XX	L30	DR	A	20	1	2	31	P02	Energy Centre - CDM Residual Risk - Third Floor
			CB005	BDP	XX	L30	DR	A	20	1	3	30	P03	Energy Centre Third Floor - GA Plan - Setting out
			CB005	BDP	XX	R00	DR	A	20	1	2	40	P11	Energy Centre GA Plan - Roof
			CB005	BDP	XX	R00	DR	A	20	1	2	41	P02	Energy Centre - CDM Residual Risk - Roof
			CB005	BDP	XX	R00	DR	A	20	1	3	40	P03	Energy Centre Roof - GA Plan - Setting out
			CB005	BDP	XX	XXX	DR	A	20	1	2	01	P01	Energy Centre - Building

Starts with([CI/SFB], '20')

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Project Configuration

Issue StampTask TemplatesProject StatusExternal Doc TypeIssuesTemplate

Numbering FormatUser Meta DataParametersTitleblocksRevisions

Sheet Number Format

Column NameProjectOriginatorVolumeLevelFile TypeDisciplineCI/SFBDocument TypeScalePrefix10NumberSuffix1Suffix2Suffix3

Enabled

Prefix / Suffix Parameters
Name: Project
Length: 5
Delimiter: -
Limit to Lookup Values
Optional
Excluded from Revit Sheet Number
Leading Zero
Enable
010010001

Lookup Values / Description

Lookup Value	Description
CB000	Masterplan
CB001	R&D Building
CB002	R&D Support Building
CB005	Energy Centre

ImportAddDelete

Date Format

Separator: /
Date Format: dd/MM/yyyy

Auto Increment New Sheet
XXXXX-XXX-XX-XXX-XX-X-XXXX01

OKCancel



1 project, 1 month:
572 Drawings issued,
25 hours saved.

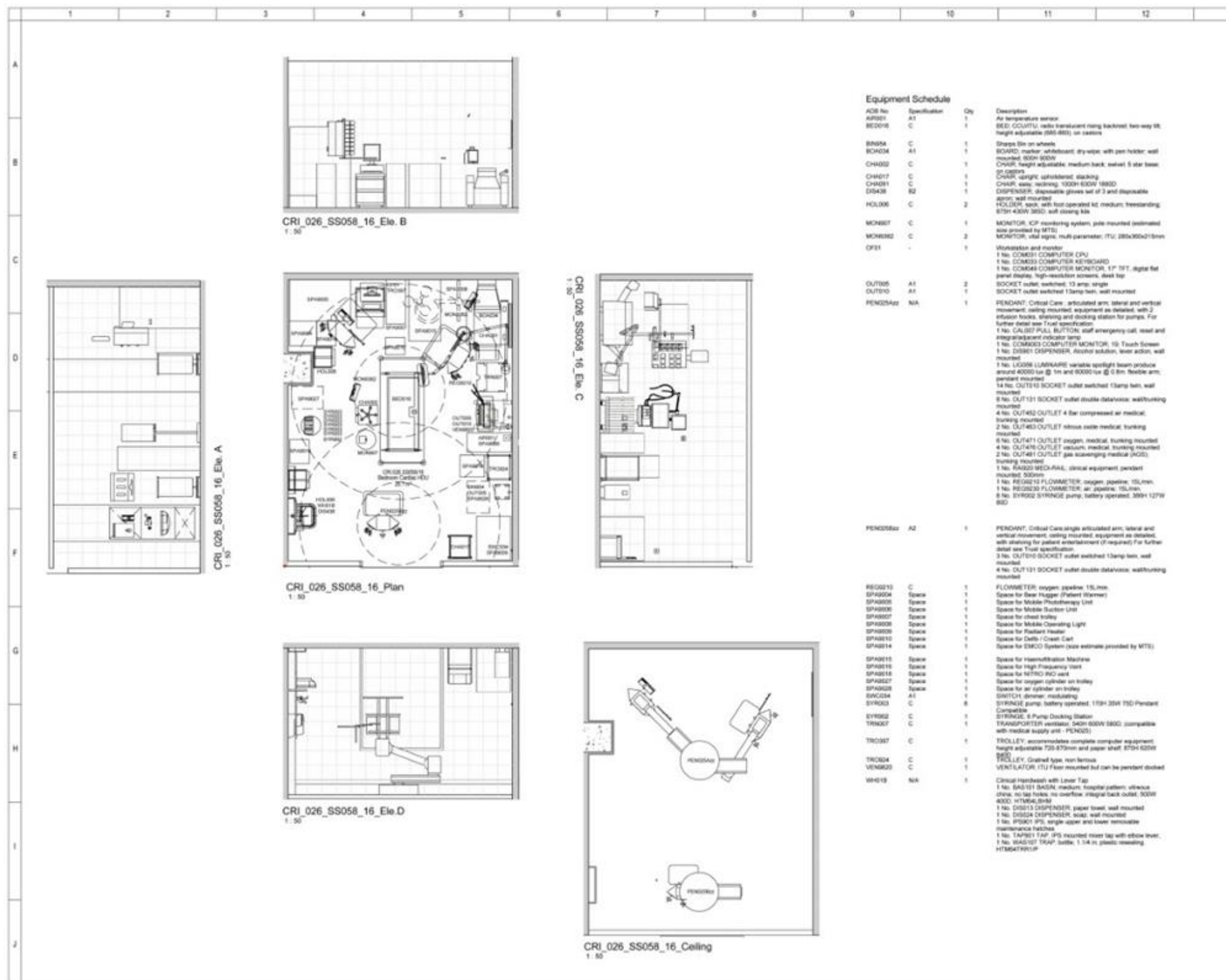
\$250 software.

We are able to realise Greater
Benefit when intelligent Project
Information is used beyond
Construction



CodeBook





Equipment Schedule

ADB No.	Specification	Qty	Description
AP001	A1	1	Air temperature sensor
BD016	C	1	BED: GOMTU: radio translucent rising bedstead, two-way tilt, height adjustable (880-883), on casters
BN054	C	1	Shoeps life on wheels
BN034	A1	1	BOARD: marker, whiteboard, dry-erase, with pen holder, wall mounted, 600H 900W
CH002	C	1	CHAIR, height adjustable, medium back, metal, 5 star base, 31 casters
CH017	C	1	CHAIR, swivel, upholstered, stacking
CH031	C	1	CHAIR, swivel, reclining, 1000H 600W 1800D
DS038	B2	1	DISPENSER, disposable gloves set of 3 and disposable apron, wall mounted
HOL006	C	2	HOLDER, rack, with foot operated lid, medium, freestanding, 870H 430W 360D, self closing lid
MON007	C	1	MONITOR, ICF monitoring system, pole mounted (estimated size provided by MTE)
MON002	C	2	MONITOR, vital signs, multi-parameter, 17U, 280x360x115mm
CP01	-	1	Workstation and monitor 1 No. COM031 COMPUTER CPU 1 No. COM033 COMPUTER KEYBOARD 1 No. COM048 COMPUTER MONITOR, 17" TFT, digital flat panel display, high-resolution screens, desk top
OUT005	A1	2	SOCKET outlet, switched, 15amp, single
OUT010	A1	1	SOCKET outlet, switched, 15amp, twin, wall mounted
PEND054a	NA	1	PENDANT: Critical Care: articulated arm, lateral and vertical movement, ceiling mounted, equipment as detailed, with 2 infusion hooks, shading and docking station for pumps. For further detail see Trust specification 1 No. CAL027 PULL BUTTON, staff emergency call, red and integrated indicator lamp 1 No. COM003 COMPUTER MONITOR, 15" Touch Screen 1 No. DS063 DISPENSER, Alcohol solution, lower action, wall mounted 1 No. LAC006 LAMINATE variable spotlight beam produce around 4000 lux @ 1m and 6000 lux @ 0.8m, flexible arm, pendant mounted 14 No. OUT010 SOCKET outlet, switched, 15amp, twin, wall mounted 8 No. OUT011 SOCKET outlet, double data/voice, wall/routing mounted 4 No. OUT042 OUTLET 4 bar compressed air medical, trunking mounted 2 No. OUT043 OUTLET nitrous oxide medical, trunking mounted 6 No. OUT041 OUTLET oxygen, medical, trunking mounted 4 No. OUT046 OUTLET vacuum, medical, trunking mounted 2 No. OUT048 OUTLET gas scavenging medical (JGS), trunking mounted 1 No. RA002 MED-RACK, clinical equipment pendant mounted, 550mm 1 No. RE0010 FLOWMETER, oxygen, pipeline, 15L/min 1 No. RE0020 FLOWMETER, air, pipeline, 15L/min 8 No. SYR002 SYRINGE pump, battery operated, 300H 127W 86D
PEND054b	A2	1	PENDANT: Critical Care: single articulated arm, lateral and vertical movement, ceiling mounted, equipment as detailed, with shading for patient entertainment (if required) For further detail see Trust specification 3 No. OUT006 SOCKET outlet, switched, 15amp, twin, wall mounted 4 No. OUT011 SOCKET outlet, double data/voice, wall/routing mounted
RE0010	C	1	FLOWMETER, oxygen, pipeline, 15L/min
SP0004	Space	1	Space for Bear Hugger (Patient Warmer)
SP0005	Space	1	Space for Mobile Phototherapy Unit
SP0006	Space	1	Space for Mobile Suction Unit
SP0007	Space	1	Space for chest trolley
SP0008	Space	1	Space for Mobile Operating Light
SP0009	Space	1	Space for Patient Heater
SP0010	Space	1	Space for Duffin / Crank Cart
SP0014	Space	1	Space for EMCO System (size estimate provided by MTE)
SP0015	Space	1	Space for Haemofiltration Machine
SP0016	Space	1	Space for High Frequency Vent
SP0018	Space	1	Space for NITRO POC unit
SP0027	Space	1	Space for oxygen cylinder on trolley
SP0028	Space	1	Space for air cylinder on trolley
SW0024	A1	1	SWITCH, dimmer, modulating
SYR003	C	8	SYRINGE pump, battery operated, 119H 35W 75D Pendant Compatible
SYR002	C	1	SYRINGE, 6 Pump Docking Station
TR0007	C	1	TRANSPORTER ventilator, 540H 600W 980D, compatible with medical supply unit - PEND001
TR0007	C	1	TROLLEY, accommodates complete computer equipment, height adjustable 720-870mm and paper shelf, 870H 620W
TR0004	C	1	TROLLEY, Gurney type, non ferrous
VEN003	C	1	VENTILATOR, ITU Floor mounted but can be pendant docked
WH019	NA	1	Clinical Handwash with Lever Tap 1 No. BAS101 BASIN, medium, hospital pattern, vitreous chrome, no tap holes, no overflow, integral back outlet, 300H 400D, HTM04/04M 1 No. DS013 DISPENSER, paper towel, wall mounted 1 No. DS024 DISPENSER, soap, wall mounted 1 No. PS001 IPS, single upper and lower, removable maintenance hatches 1 No. TAP001 TAP, IPS, mounted, mixer tap with elbow lever. 1 No. WAS001 TRAP, bottle, 1.54 in, plastic, mounting HTM04/04M

BUILDING DESIGN PARTNERSHIP SHALL HAVE NO RESPONSIBILITY FOR ANY USE MADE OF THIS DOCUMENT OTHER THAN FOR THAT WHICH IT WAS PREPARED AND ISSUED.

ALL DIMENSIONS SHOULD BE CHECKED ON SITE.

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SIGN OFF

Department: Function: Sign Off:		
DATE: 01/01/2014	BY: [Signature]	DATE: 01/01/2014
DATE: 01/01/2014	BY: [Signature]	DATE: 01/01/2014

SIGN OFF CRITERIA

1. To ensure
2. To ensure

Note:
Pendant movement range subject to manufacturer's details

031: For Trust Year Sign Off

YLP	ARC	14/03/13
-----	-----	----------

Key Plan

Alder Hey Children's NHS Foundation Trust

acorn

BDP.

1 North Bank
Duffield
G1 5LY
T +44 (0)1474 272 1941
F +44 (0)1474 281903
www.bdp.com

Project Title
Alder Hey Children's Health Park Project

Project Number
P2002104

Project Title
Critical Care
Bedroom Cardiac ICU

Scale
8 A2

Scale
1:50

Scale
28/02/13

Revision
01 BDP_22_31_DR_A_170_CRI_001

CRI_026_SS058_16_Ele.B
1:50

CRI_026_SS058_16_Ele.A
1:50

CRI_026_SS058_16_Plan
1:50

CRI_026_SS058_16_Ele.D
1:50

CRI_026_SS058_16_Ele.C
1:50

CRI_026_SS058_16_Ceiling
1:50

BDP.

10489 Room Data - Environmental

Level:		
Department:		
Room:		
Room Number:		
Temperature	Summer degC	27°C not to be against CIBSE
	Winter degC	21
	Relative Humidity%	Humidity not co
	Supply ac/hr	10 litres per sec
	Extract ac/hr	10 litres per sec
Ventilation	Relative Pressure	Balanced
	Final Filtration	0.1.0
Mechanical Notes		
Safety	Hot Surface Temperature deg C	43
	Hot Water Temperature deg C	-
Safety Notes		
Lighting	Lighting Level Normal lux	300 lux at desk
	Lighting Level Night lux	30 / 200 lux - se
	Lighting Level Local lux	0 -
	Standby Lighting Grade	A - Lighting of f provided by no
	Colour Rendering	General lighting
Sound	Lighting Notes	Separate select facility. Unified glare ra Emergency ligh
	Intrusive Noise NR LAeq: 1hour	40 dB LAeq, 1h
	Mechanical Services Noise NR L90	NR 35
	Rain Noise NR Leq: 1hour	>20 dB above lower
	Impact Sound Insulation from above L'nT,w dB	65 dB L'nT,w
Sound Insulation Criteria	Privacy	Moderate
	Noise Generation	Typical
	Noise Sensitivity	Medium
Fire	Fire Detection	- Smoke

BDP.

10489 Room Data - Finishes

Level:		
Department:		
Room:		
Room Number:		
Finishes	Floor Finish	Surface F smooth
	Floor Finish Spec.	Refer to d
	Skirting	Coved to
	Skirting Spec.	Refer to d
	Wall Finish	Surface F normal h - 2.4
	Wall Finish Spec.	Refer to d
	Ceiling Finish	Surface F Resistan (HTM 60)
	Ceiling Finish Spec.	Suspend imperfor
	Window surrounds and sill	n/a
	Glazed screen	n/a

BDP.

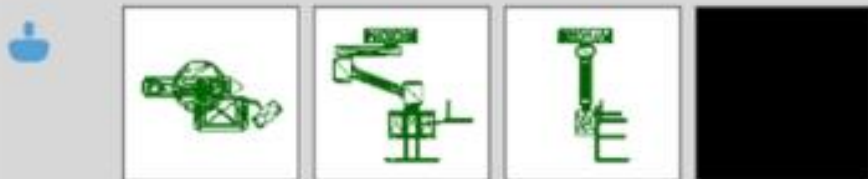
10489 Room Data - Activities DS_T0211b

Level:		
Department:		
Room:		
Room Number:		
Design Criteria	Area Designed (sq m)	8.6 m²
Occupancy	Personnel	1 - 4 x Staff (2x Staff(AI-cf)) (Upto 8 Seated(CCA))
Activities	1. Managerial tasks associated with departmental organisation. 2. Observation of patient monitoring systems/indicator panels. 3. Writing notes and/or reports. 4. Holding working supply of stationery. 5. Using computer workstation(s). 6. Using printer. 7. Dealing with enquiries. 8. Using telephone(s). 9. Accessing and viewing digital images. 10. Holding current patient records (in a notes trolley)/accessing electronic records. 11. Staff supervise and observe patients. 12. Staff notices; information and/or messages displayed. 13. Monitoring of visitor arrival and waiting (CCA)	
Design Notes	Changes to OS	Refer to 'Schedule of UG Deviations from Output Spec' document for details
Adjacencies	Should allow good observation of the areas in which it is being used (i.e. waiting areas; clinical rooms) as appropriate	
Windows	Windows Type	(HTM 55) N/A or clear; solar control
	Spec. - External	& 31003 with document reference D2.6f Finishes statement & D2.7f Glazing strategy
	Internal Glazing	(HTM 57) N/A
	Spec. - Internal	refer to document reference D2.7f Glazing strategy
Doorsets	Door Width/Type	(HTM 58) N/A
	Specification	Refer to document reference D2.8f Kit of parts/Assemblies
Fire	Fire Enclosure	the actual room fire rating may result in a different fire rating depending on the adjacent room(s); refer to the fire strategy drawings ref:





FFE Library Viewer



Summary Detail Services Data Purchase Fa... 4 ▶

Static	
database id	80102
cad name	none
available cad graphics	none available

Identity	
group	1 - Contractor supply, has fix/service requirement
classification	70 - Fittings:
union code	PEN025Bzz

Description

PENDANT; Critical Care;single articulated arm; lateral and vertical movement; ceiling mounted; equipment as detailed, with shelving for patient entertainment (if required) For further detail see Trust specification.

Sizes in mm	
height	2000
length	2107.1
depth	1049.8
fix Height	0



ASE

‘Architecturally Significant Equipment’

1. Architectural Significance > 750mm
2. Servicing Requirement > Typical Provision
3. Structural Significance > Designed Loads

14'529 Specialist Equipment Items

42% 'ASE', 58% 'Non-ASE'

INITIAL TASK
STANDARD WORKFLOW

ONE-OFF TASK

CLIENT USER GROUPS

1

2

3

4

5

etc.

INFORMATION EXCHANGE

MASTER EQUIPMENT LIST (ASE)

XLS SPREADSHEET

Room Name	Room Code	Room Type	Room Area	Room Volume	Room Height	Room Shape	Room Color	Room Material	Room Finish	Room Equipment	Room Notes
Room 101	101	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 102	102	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 103	103	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 104	104	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 105	105	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 106	106	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 107	107	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 108	108	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 109	109	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 110	110	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk

DRAWINGS / SCHEDULES

XLS SPREADSHEET



REVIT EQUIPMENT MODEL

3D MODEL



REPORTS / ROOM DATA SHEETS

XLS SPREADSHEET

Room Name	Room Code	Room Type	Room Area	Room Volume	Room Height	Room Shape	Room Color	Room Material	Room Finish	Room Equipment	Room Notes
Room 101	101	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 102	102	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 103	103	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 104	104	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 105	105	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 106	106	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 107	107	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 108	108	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 109	109	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 110	110	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk

NON-ARCHITECTURALLY SIGNIFICANT EQUIPMENT

XLS SPREADSHEET

Room Name	Room Code	Room Type	Room Area	Room Volume	Room Height	Room Shape	Room Color	Room Material	Room Finish	Room Equipment	Room Notes
Room 101	101	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 102	102	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 103	103	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 104	104	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 105	105	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 106	106	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 107	107	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 108	108	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 109	109	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk
Room 110	110	Office	1000	1000	1000	Rectangular	White	Concrete	Paint	Office Chair	Office Desk

BDP.

DATABASE MANAGEMENT

CODEBOOK DATABASE

EQUIPMENT LIBRARY

3

CONTAINS:

- EQUIPMENT CODE
- "TYPE" DATA
- PRODUCT PHOTO
- 3D "BLOCK"
- MANUFACTURER
- MODEL
- SERVICES REQs
- PROCUREMENT DATA

LIFE Specification Sheets - Summary		
Category: NFP-2: Lobby and Lounge		
Room Name: Colony Bench - Medium - (Premium)	Equip Code: CH114	
Fields: Polyurethane Pad, Manufacturer: UltraVulc, Range: Promiss		
Dimensions: 2220mm x 820mm x 300mm High	Total Quantity: 3	
Room Name: Colony Bench - Large - (Premium)	Equip Code: CH115	
Fields: Polyurethane Pad, Manufacturer: UltraVulc, Range: Promiss		
Dimensions: 3300mm x 910mm x 300mm High	Total Quantity: 3	
Room Name: Children's Play - Field Stool - (Contract)	Equip Code: CH103	
Fields: Polyurethane Pad, Manufacturer: UltraVulc, Range: Promiss		
Dimensions: 430 Diameter 450H	Total Quantity: 143	
Room Name: Children's Discrete - Junior Chair	Equip Code: CH105	
Fields: Plastic - Sky Blue		
Dimensions: 380 seat height	Total Quantity: 29	
Room Name: Psychiatric Sofa / Daybed - (Contract)	Equip Code: CH110	
Fields: Polyurethane Grade Leather, Manufacturer: Spinnepiece, Range: Proven, Colour: Ash/87, Seat Colour: Chromat/89		
Dimensions: 1760L x 820W x 820H, 640mm seat height	Total Quantity: 1	
Room Name: Coffee Table Square	Equip Code: TAO18	
Fields: Glass Top (Premium), Central glass table top with KAL5001 underside fin, chrome plated steel structure		
Dimensions: 1300L x 1300D x 380H	Total Quantity: 6	

ROOM DATA

CONTAINS:

- ROOM INFORMATION
- ENVIRONMENTAL DATA
- FINISHES
- EQUIPMENT
- "INSTANCE" DATA
- UNIQUE ID
- CURRENT AZ LOCATION
- PROPOSED NCS LOCATION
- INSTALLATION DATA



SQL SERVER



Name	CreatedBy	CreatedOn	Category	Description	AssetType	Manufacturer	ModelNumber	WarrantyGuarantorParts	WarrantyDurationParts	WarrantyGuarantorLabor	WarrantyDurationLabor	WarrantyDurationUnit	ExtSystem
ALA026	test@bdp.com	2015-11-18T15-14-00-05-00	Services: Mechanical / Electrical	FIRE ALARM break glass; push button release	fixed	-							CodeBook
DSK129	test@bdp.com	2015-11-18T15-14-00-05-00	Architecturally Significant Equipment	NOT EWT ; -; DESK	fixed	-							CodeBook
U_SED011	test@bdp.com	2015-11-18T15-14-00-05-00	Services: Mechanical / Electrical	Service dado for 1800mm bench incl. Power and data; bench mounted.	fixed	-							CodeBook
DET004	test@bdp.com	2015-11-18T15-14-00-05-00	Services: Mechanical / Electrical	DETECTOR smoke; 430 to 470Hz	fixed	-							CodeBook
MSC160	test@bdp.com	2015-11-18T15-14-00-05-00	Architecturally Significant Equipment	SAFETY CABINET; CLASS II RECIRC; SAFETY CABINET	fixed	-							CodeBook
BEN008	test@bdp.com	2015-11-18T15-14-00-05-00	Fittings: General Laboratory	Laboratory bench; 750mm (depth) x 450mm (wide) x 910mm (height)	fixed	-							CodeBook
VEN008	test@bdp.com	2015-11-18T15-14-00-05-00	Architecturally Significant Equipment	IVC Rack and 70 Cages; STANDARD; VENTILATED ENCLOSURE	fixed	-							CodeBook
BIN108	test@bdp.com	2015-11-18T15-14-00-05-00	Architecturally Significant Equipment	Diet bin; BIN; STORAGE	fixed	-							CodeBook
SET001	test@bdp.com	2015-11-18T15-14-00-05-00	Fittings: General Laboratory	Service trunking 1000mm; wall mounted	fixed	-							CodeBook
GRI900	test@bdp.com	2015-11-18T15-14-00-05-00	Services: Mechanical / Electrical	GRILL; Extract grill	fixed	-							CodeBook
U_SEP020	test@bdp.com	2015-11-18T15-14-00-05-00	Services: Mechanical / Electrical	Service Pod + Receiver plate for IVCs Greenline incl. power; data; CO2 exchange and AGS; hi	fixed	-							CodeBook
U_SER004	test@bdp.com	2015-11-18T15-14-00-05-00	Services: Mechanical / Electrical	Power + Data Services on trunking	fixed	-							CodeBook
U_SER003	test@bdp.com	2015-11-18T15-14-00-05-00	Services: Mechanical / Electrical	CO2 + BODs Service on trunking	fixed	-							CodeBook
U_SEP010	test@bdp.com	2015-11-18T15-14-00-05-00	Services: Mechanical / Electrical	Service pod for Microbiological Safety Cabinets incl. power; data; Vacuum; Compressed a	fixed	-							CodeBook
U_HYG002	test@bdp.com	2015-11-18T15-14-00-05-00	Fittings: General Laboratory	Hygiene WTB; IPS wall mounted; left hand	fixed	-							CodeBook
U_SET020	test@bdp.com	2015-11-18T15-14-00-05-00	Services: Mechanical / Electrical	Vertical Service Trunking for RSF Holding and Power Service	fixed	-							CodeBook
U_HYG001	test@bdp.com	2015-11-18T15-14-00-05-00	Fittings: General Laboratory	Hygiene WTB; IPS wall mounted; right hand	fixed	-							CodeBook
BEN001	test@bdp.com	2015-11-18T15-14-00-05-00	Fittings: General Laboratory	Laboratory bench; 900mm (depth) x 1800mm (wide) x 910mm (height)	fixed	-							CodeBook
BEN002	test@bdp.com	2015-11-18T15-14-00-05-00	Fittings: General Laboratory	Laboratory bench; 900mm (depth) x 1500mm (wide) x 910mm (height)	fixed	-							CodeBook
VEN006	test@bdp.com	2015-11-18T15-14-00-05-00	Fittings: General Equipment	IVC Double Deck Rack and 16 Cages; STANDARD; VENTILATED ENCLOSURE	fixed	-							CodeBook
SUR003	test@bdp.com	2015-11-18T15-14-00-05-00	Architecturally Significant Equipment	Anaesthesia And Scavenging; ANAESTHESIA; Surgical Device	fixed	-							CodeBook
U_SED020	test@bdp.com	2015-11-18T15-14-00-05-00	Services: Mechanical / Electrical	Service dado for 1500mm bench incl. power and data; bench mounted.	fixed	-							CodeBook
U_SED010	test@bdp.com	2015-11-18T15-14-00-05-00	Services: Mechanical / Electrical	Service dado for 1800mm bench incl. power; data; Vacuum; Compressed air; CO2 and Nitro	fixed	-							CodeBook
MSC157	test@bdp.com	2015-11-18T15-14-00-05-00	Architecturally Significant Equipment	Portable VHP Unit; CONTAINMENT; SAFETY CABINET	fixed	-							CodeBook
MSC161	test@bdp.com	2015-11-18T15-14-00-05-00	Architecturally Significant Equipment	VHP Aeration Unit; CONTAINMENT; SAFETY CABINET	fixed	-							CodeBook
CYL004	test@bdp.com	2015-11-18T15-14-00-05-00	Architecturally Significant Equipment	Helium Cylinders - mobile; GAS CYLINDER; ANCILLARY	fixed	-							CodeBook
SNK003	test@bdp.com	2015-11-18T15-14-00-05-00	Fittings: General Laboratory	Laboratory sink; left hand drainer; 750mm (depth) x 1500mm (wide); bench mounted with	fixed	-							CodeBook
BEN005	test@bdp.com	2015-11-18T15-14-00-05-00	Fittings: General Laboratory	Laboratory bench; 750mm (depth) x 1500mm (wide) x 910mm (height)	fixed	-							CodeBook
STO010	test@bdp.com	2015-11-18T15-14-00-05-00	Fittings: General Laboratory	Unberbench storage unit; 500mm wide x 600mm deep	fixed	-							CodeBook
BEN003	test@bdp.com	2015-11-18T15-14-00-05-00	Fittings: General Laboratory	Laboratory bench; 900mm (depth) x 1200mm (wide) x 910mm (height)	fixed	-							CodeBook
FCA012	test@bdp.com	2015-11-18T15-14-00-05-00	Architecturally Significant Equipment	FUME CUPBOARD; STANDARD; Fume Cupboard	fixed	-							CodeBook
LSF001	test@bdp.com	2015-11-18T15-14-00-05-00	Architecturally Significant Equipment	REFRIGERATION; FREEZER / -20; Lead Shielded Freezer -20	fixed	-							CodeBook
DDT003	test@bdp.com	2015-11-18T15-14-00-05-00	Architecturally Significant Equipment	VENTILATED ENCLOSURE; STANDARD; Downflow table	fixed	-							CodeBook
DDT005	test@bdp.com	2015-11-18T15-14-00-05-00	Architecturally Significant Equipment	VENTILATED ENCLOSURE; STANDARD; Downflow table	fixed	-							CodeBook
VET002	test@bdp.com	2015-11-18T15-14-00-05-00	Services: Mechanical / Electrical	Ventilation Duct	fixed	-							CodeBook
FR7024	test@bdp.com	2015-11-18T15-14-00-05-00	Architecturally Significant Equipment	REFRIGERATION; RESPOKE Freezer - 80	fixed	-							CodeBook

Instruction

Contact

Facility

Floor

Space

Zone

Type

Component

System

Assembly

Connection

Spare

Resource

Job

Impact

Document

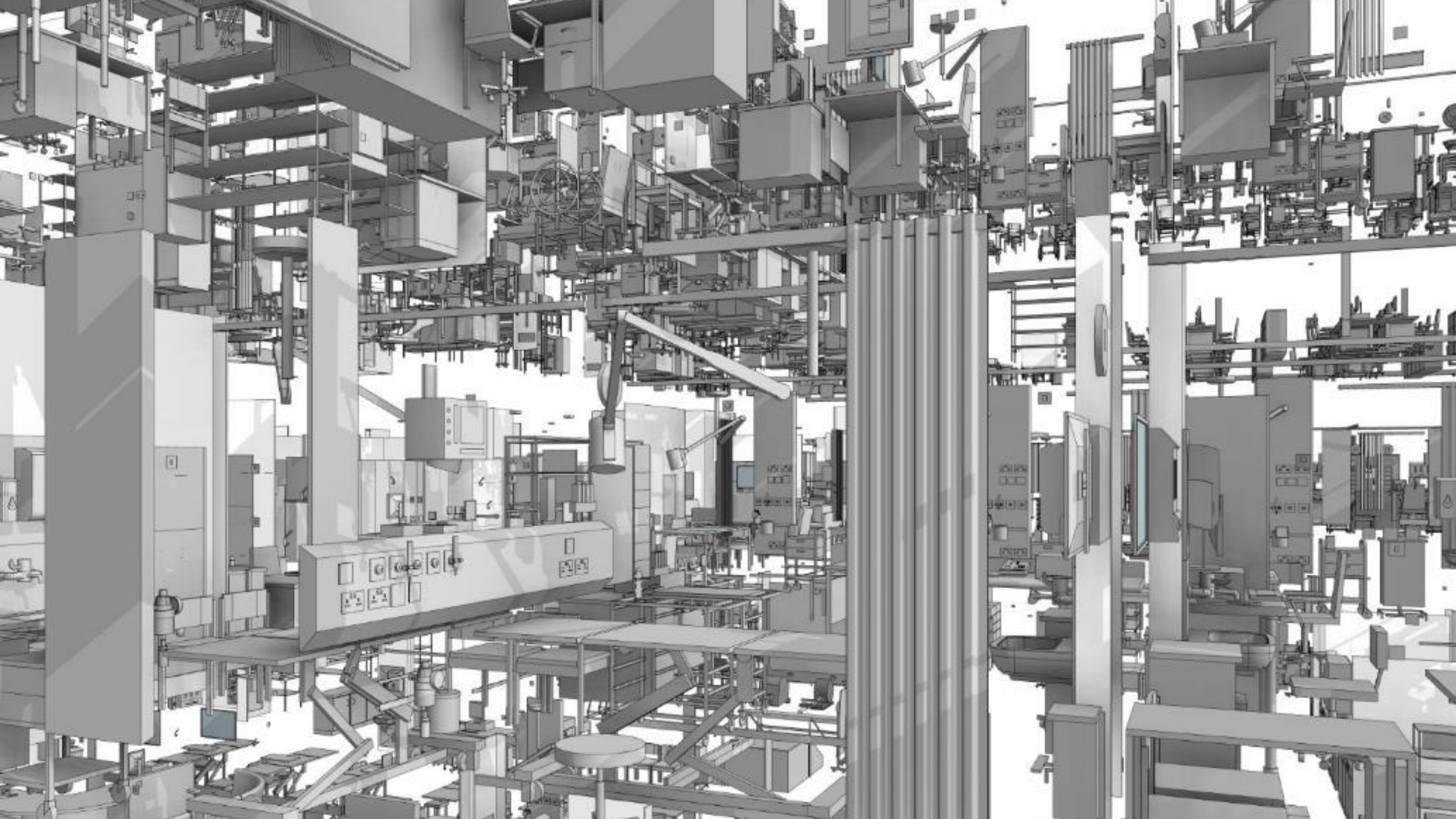
Attribute

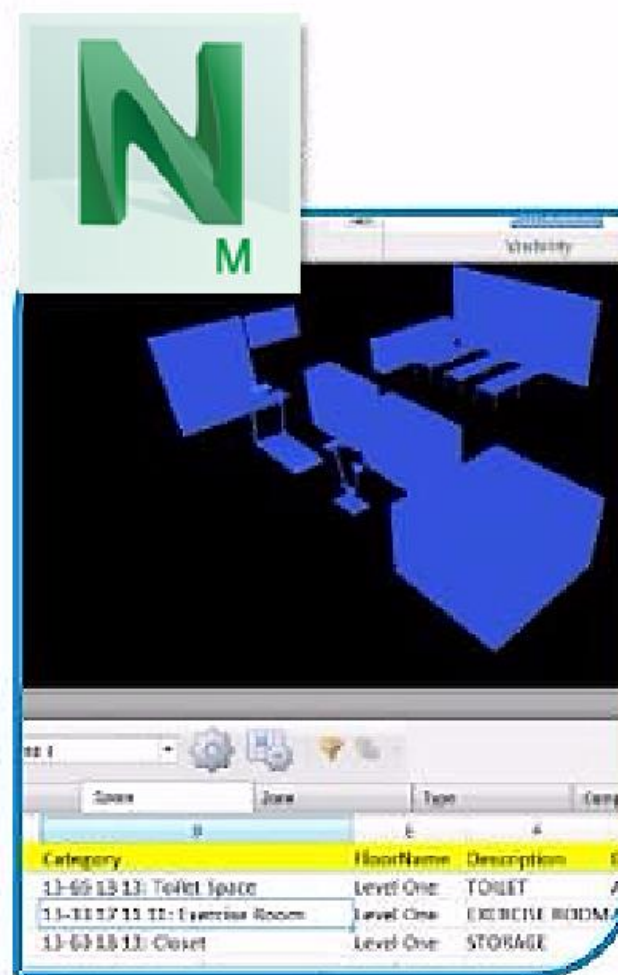
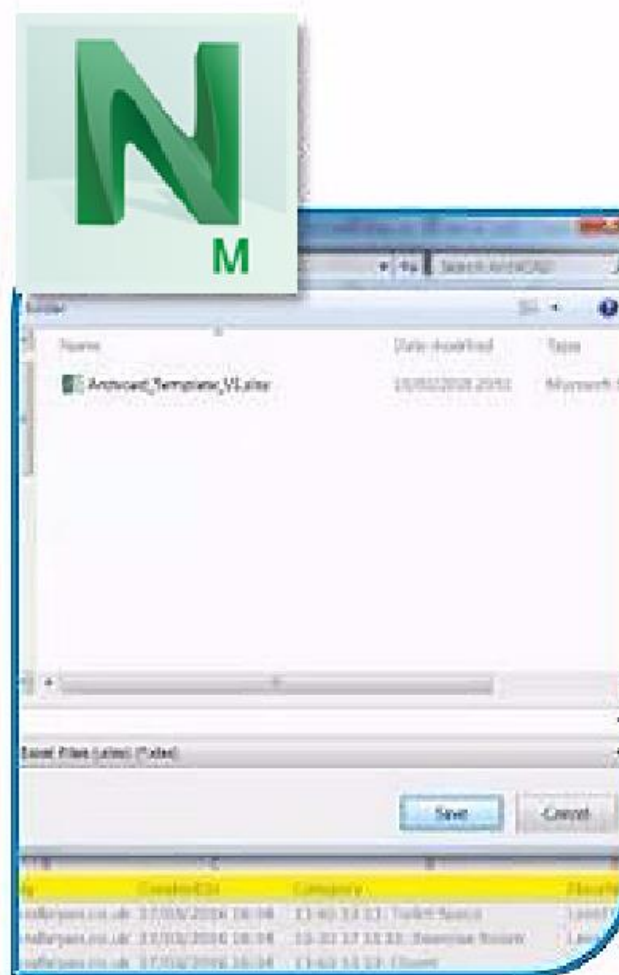
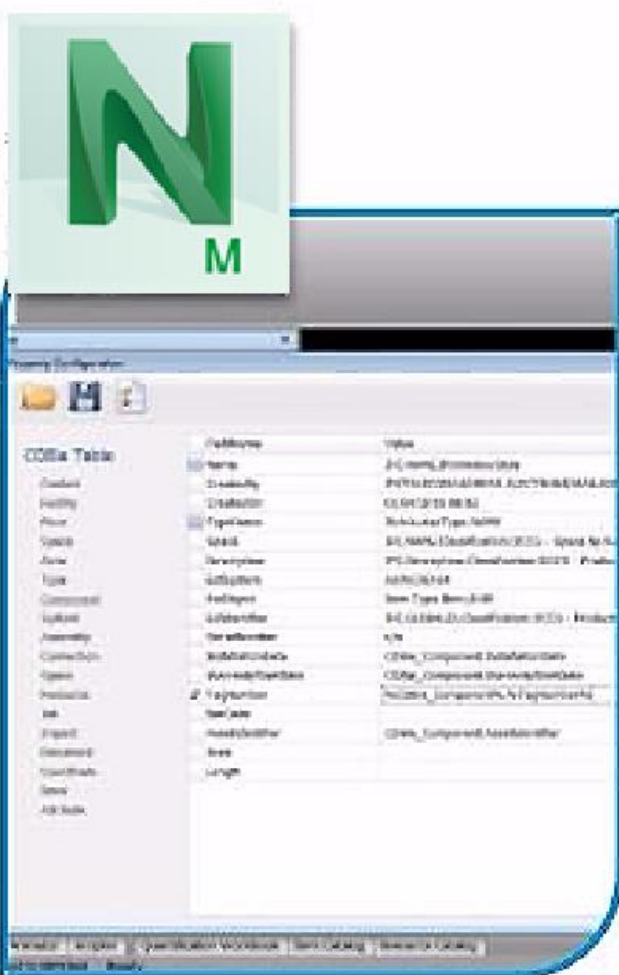
Coordinate

Issue

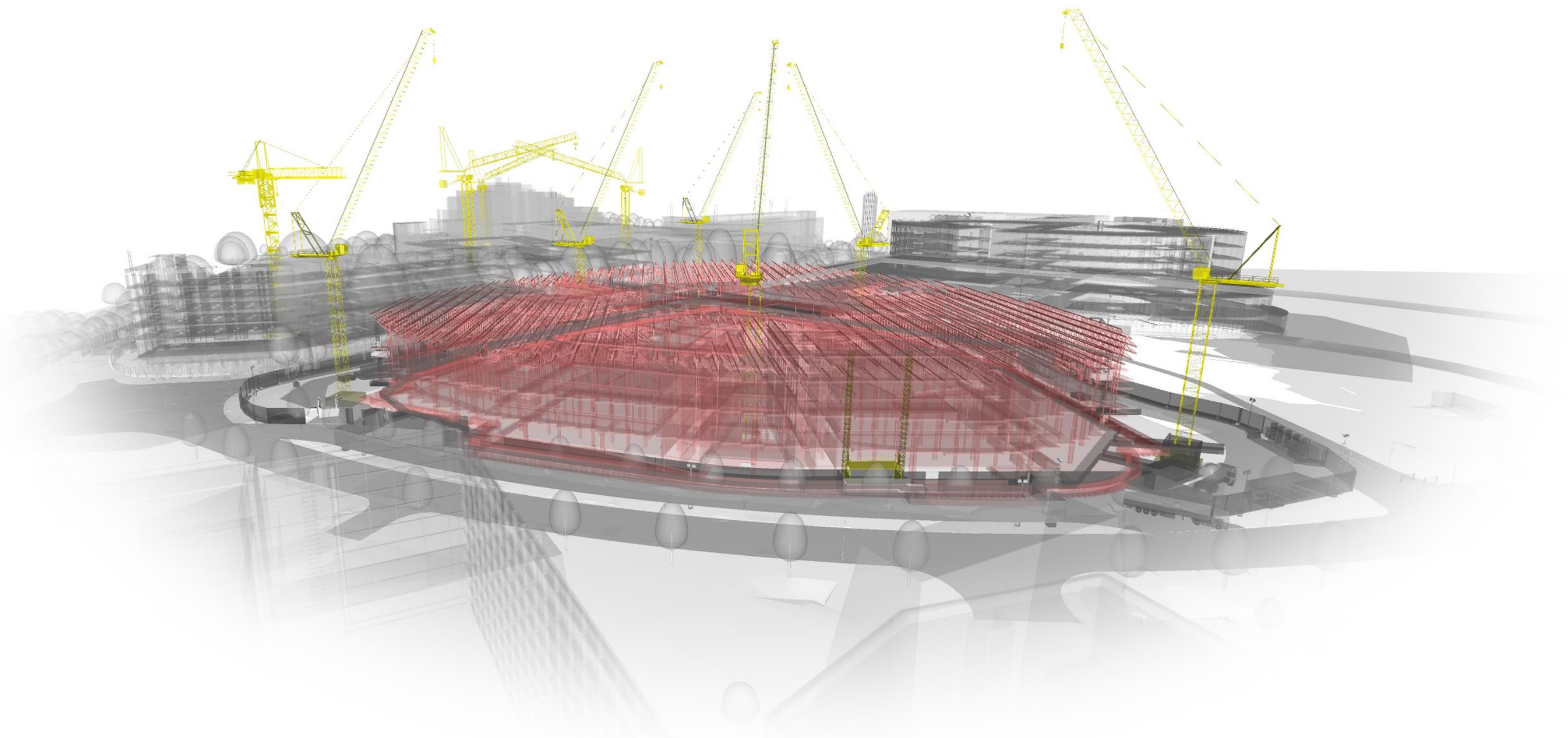
PickLists

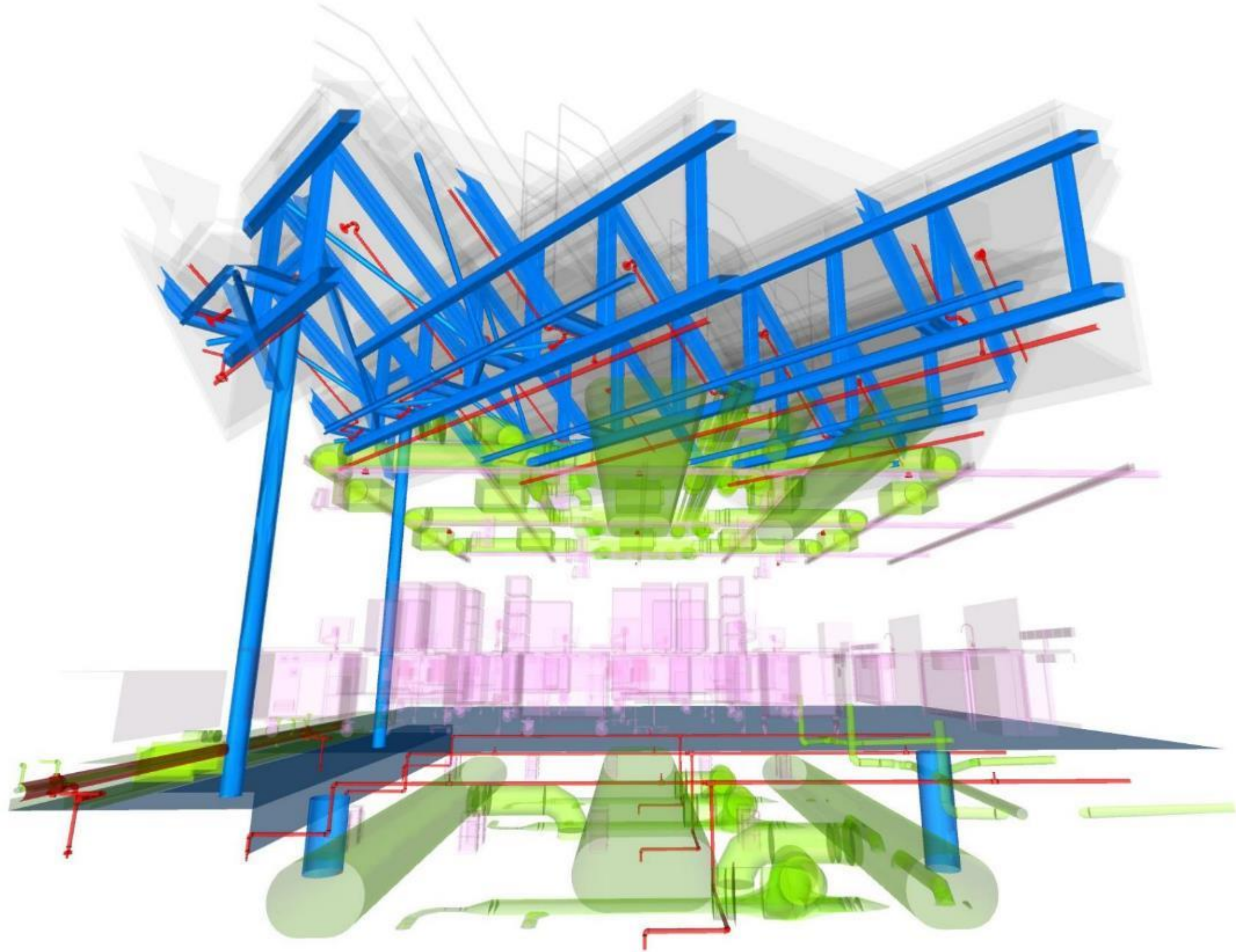
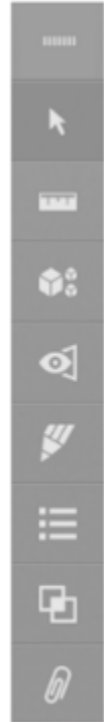
75,169 Components Placed
All FF&E & MEP Terminals





Stage 5: Construction







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☁️

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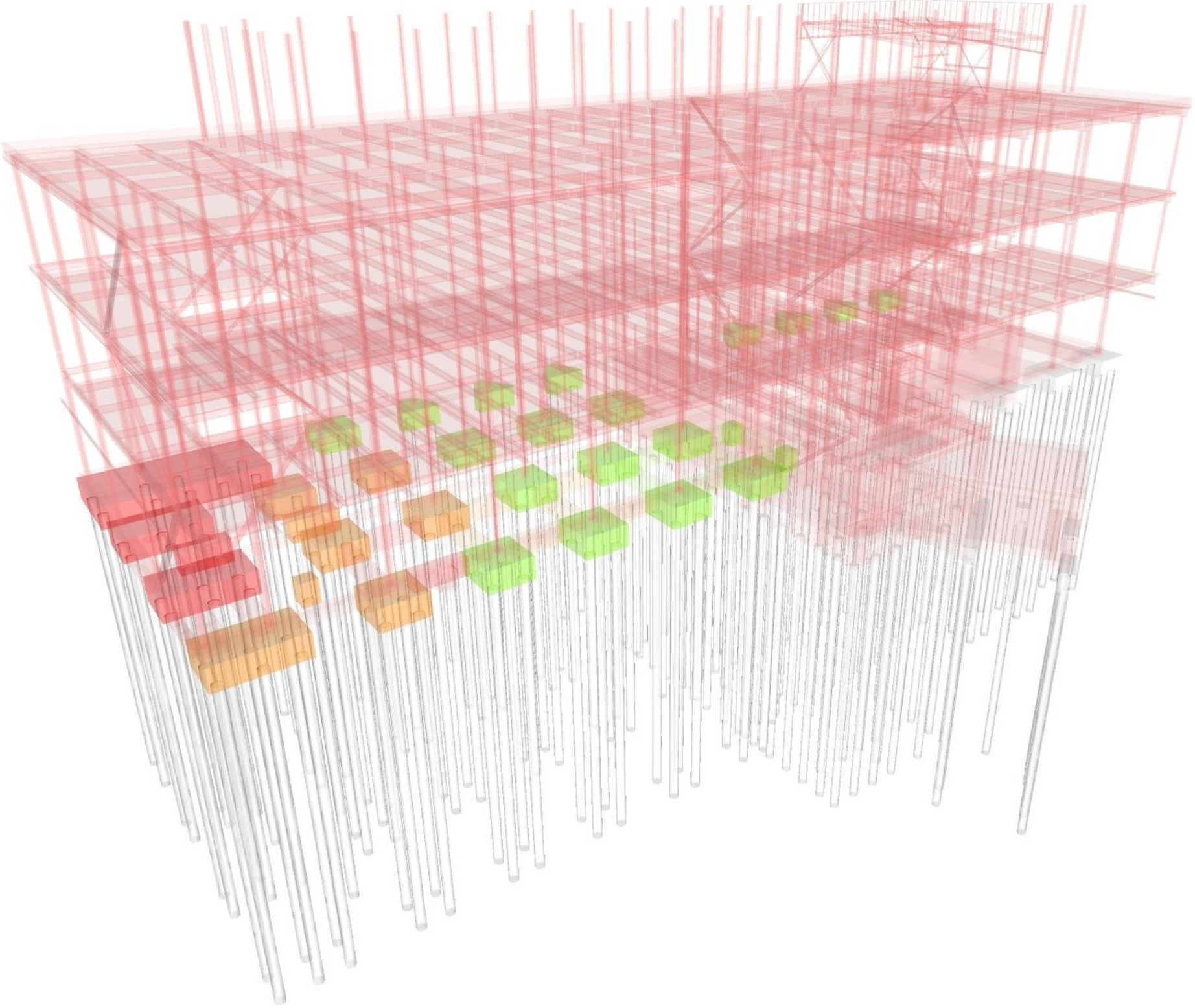
Properties

Object

Equipment

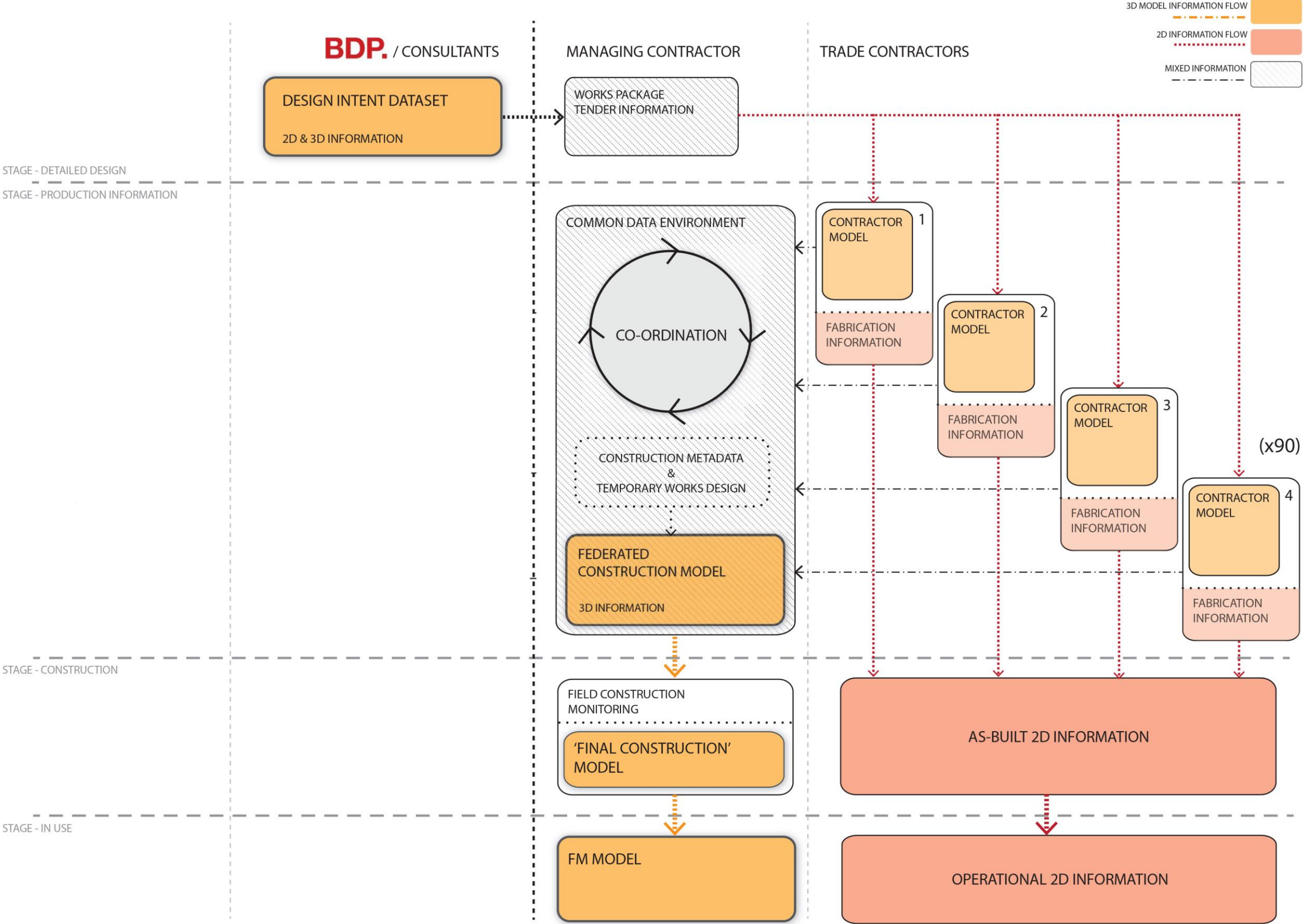
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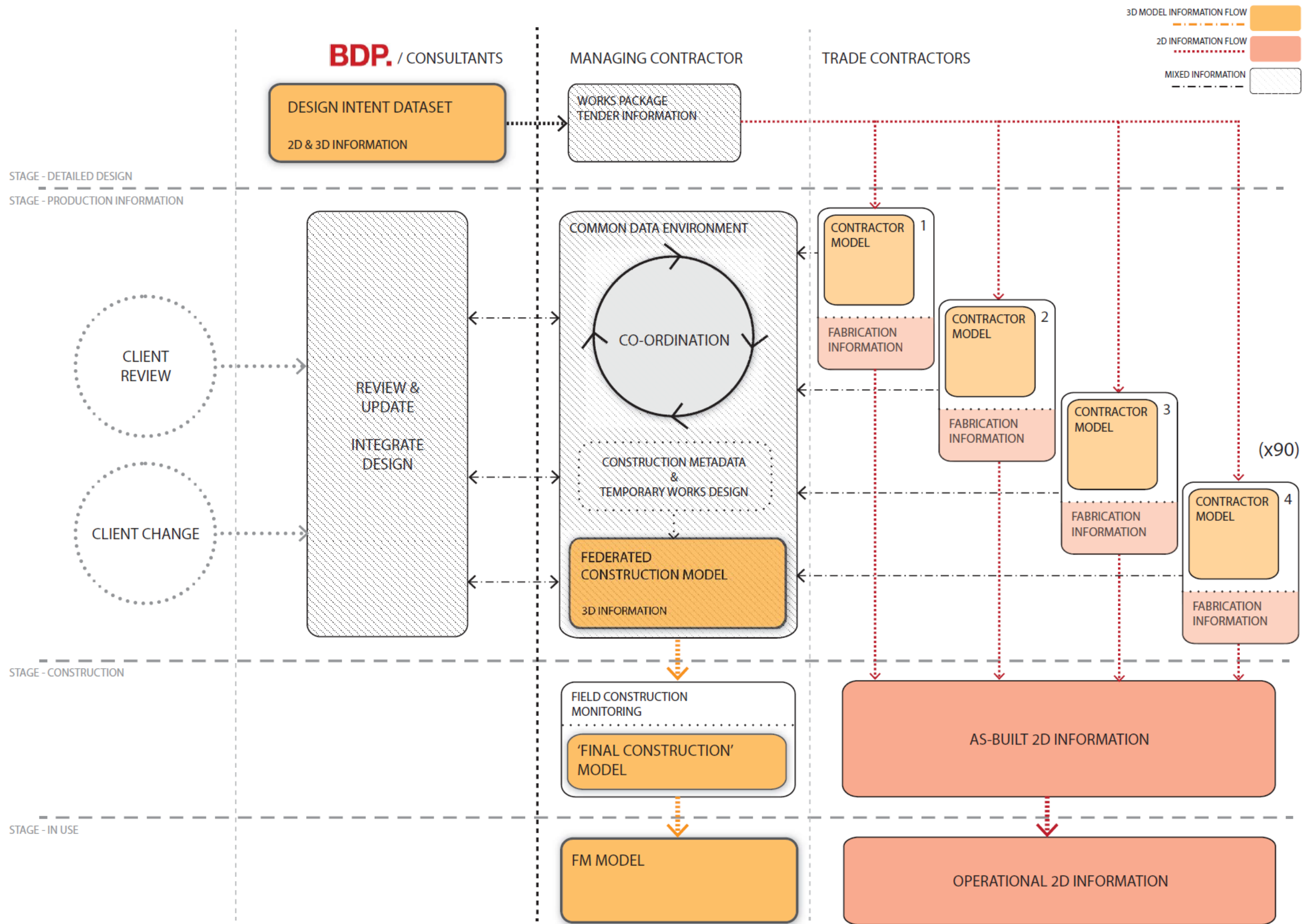
Excavation Date	2015-10-15
Name	3476769
Type Mark	PC4
Poured Date	2015-10-27
Caged Date	2015-10-22
Location	CB005 - Energy Centre>FND - Foundations

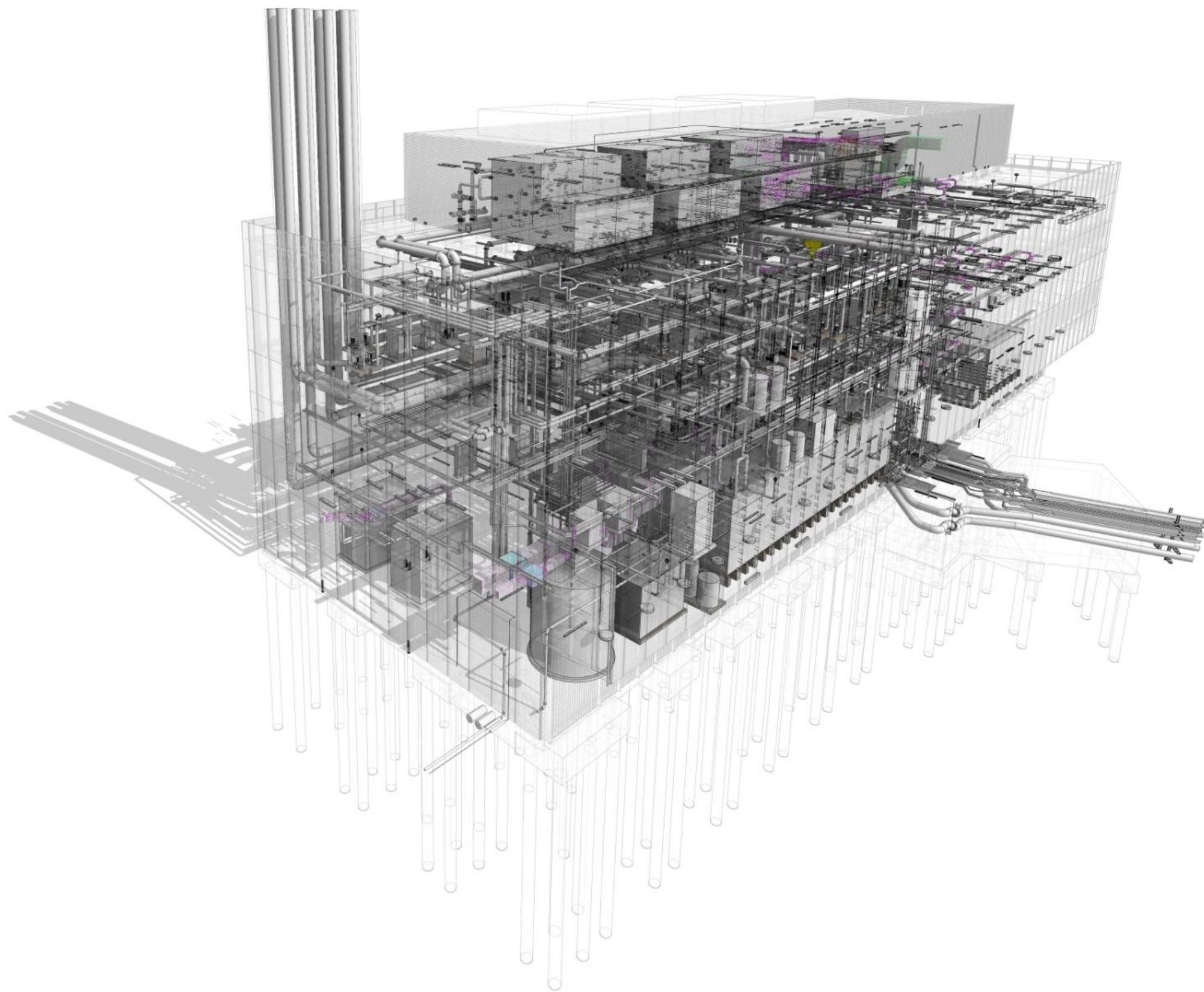


The Problem with...

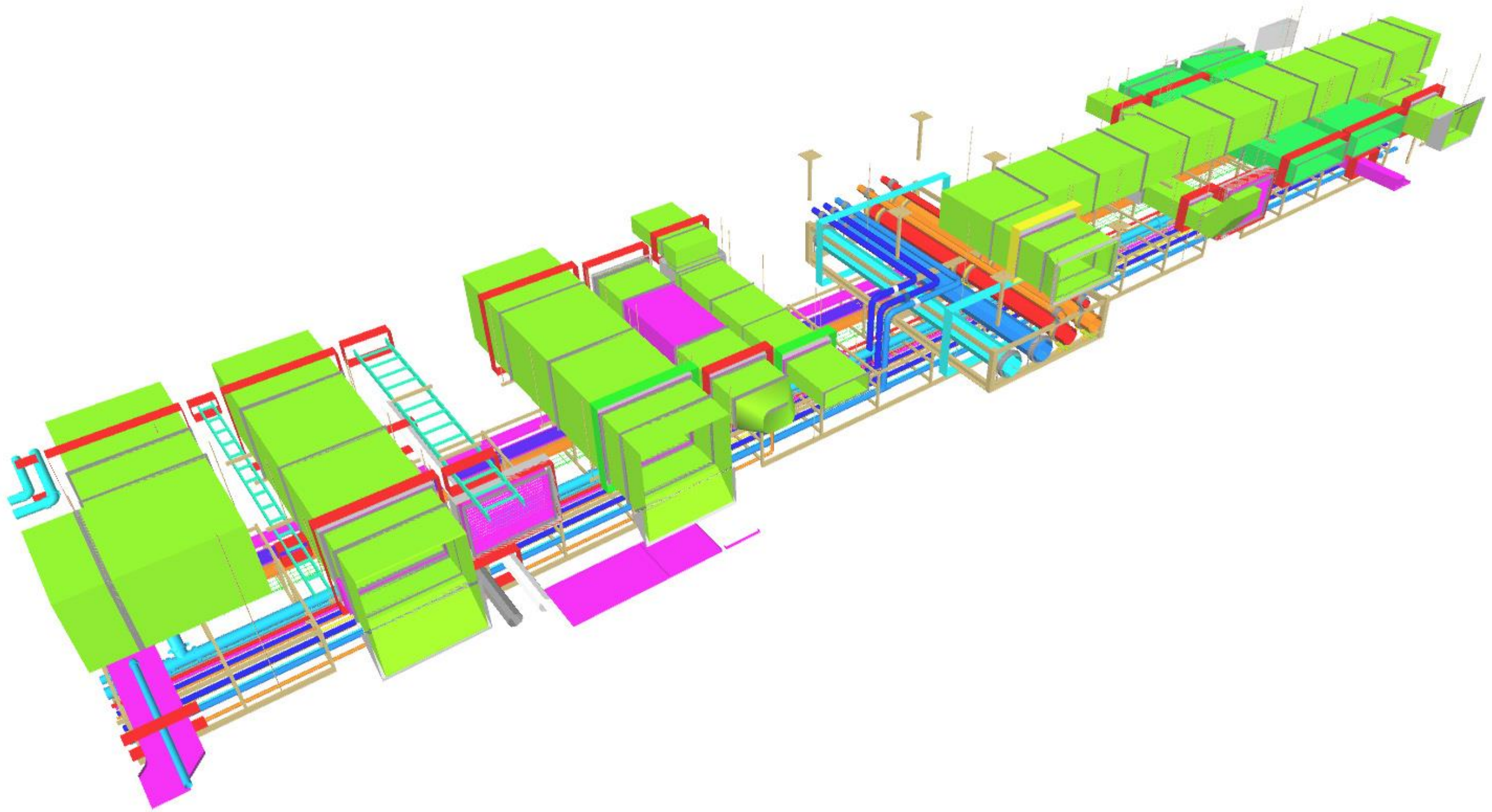
Procurement







Achieving a Fully Co-ordinated Design

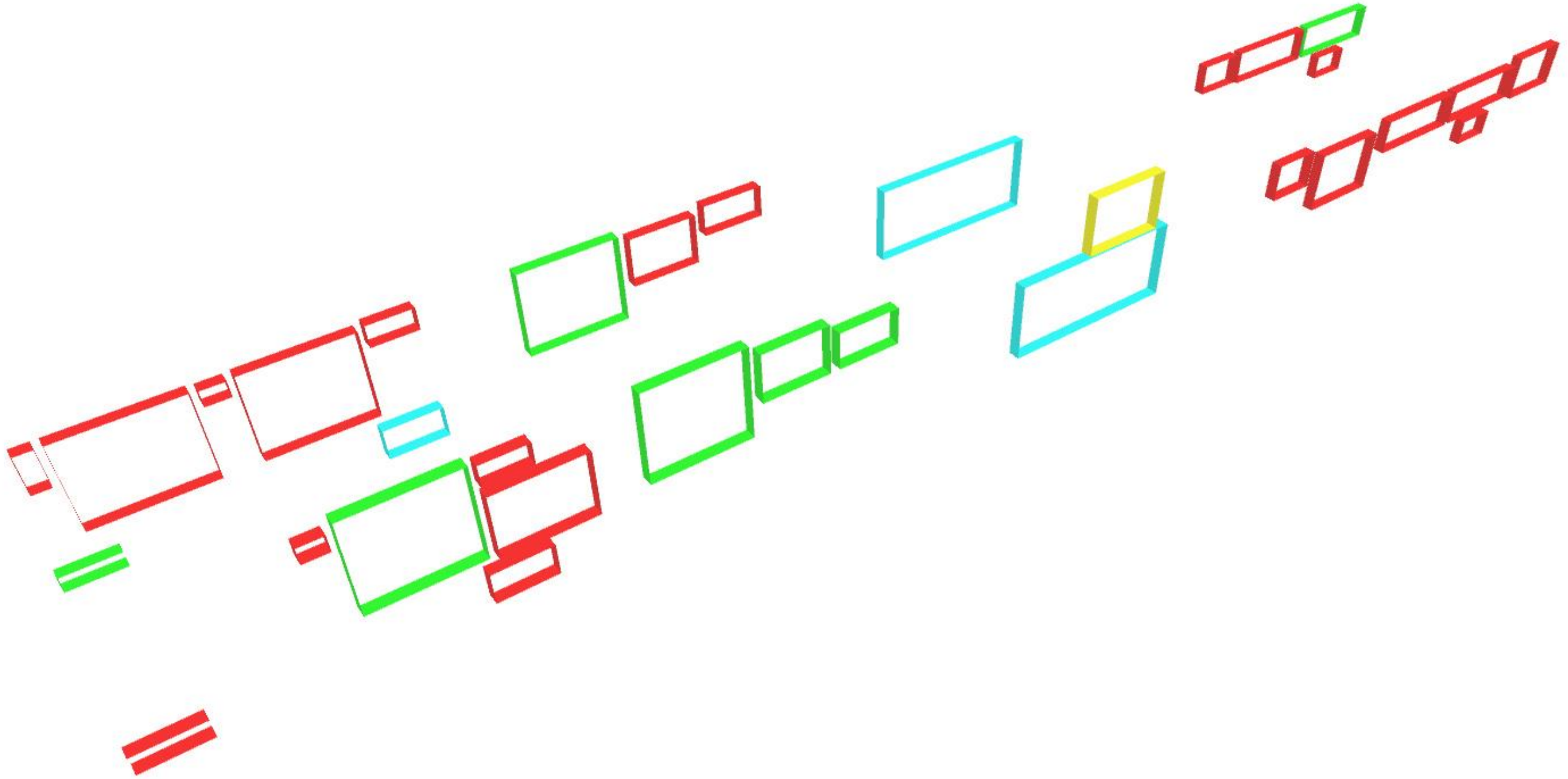


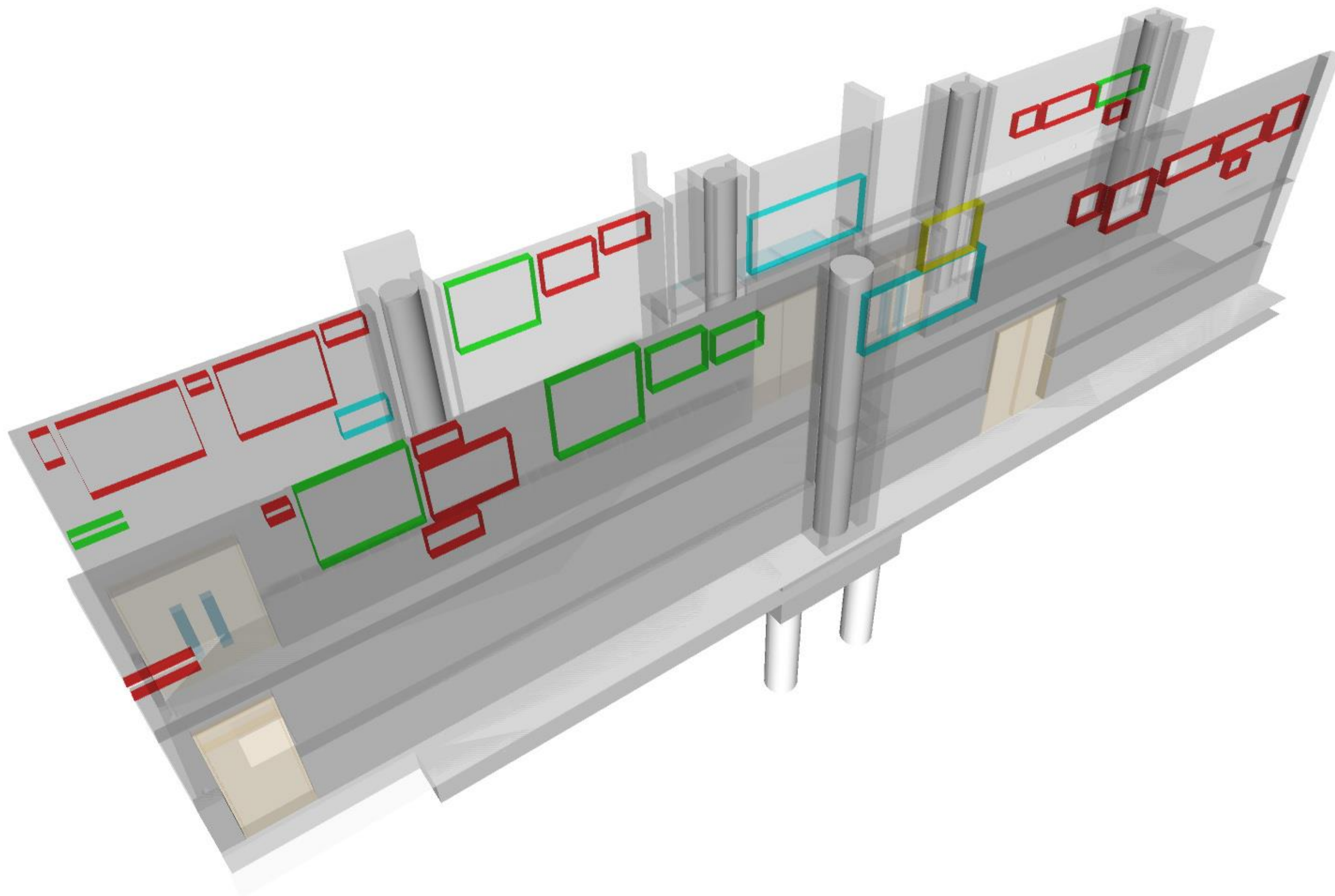
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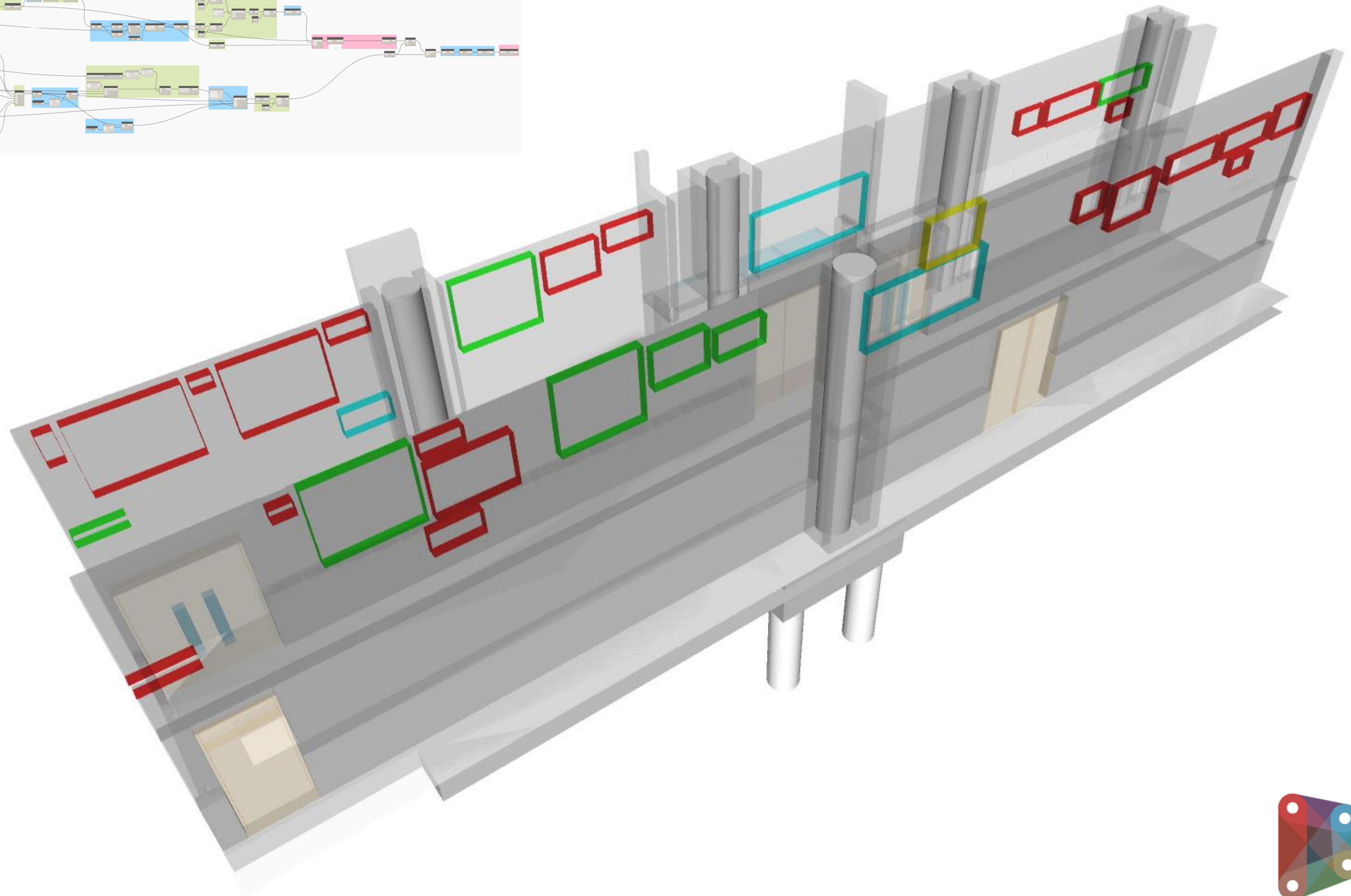
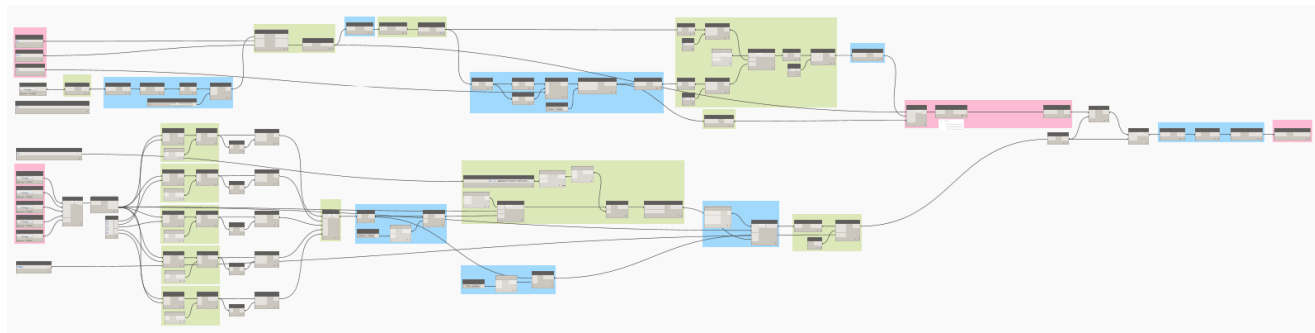
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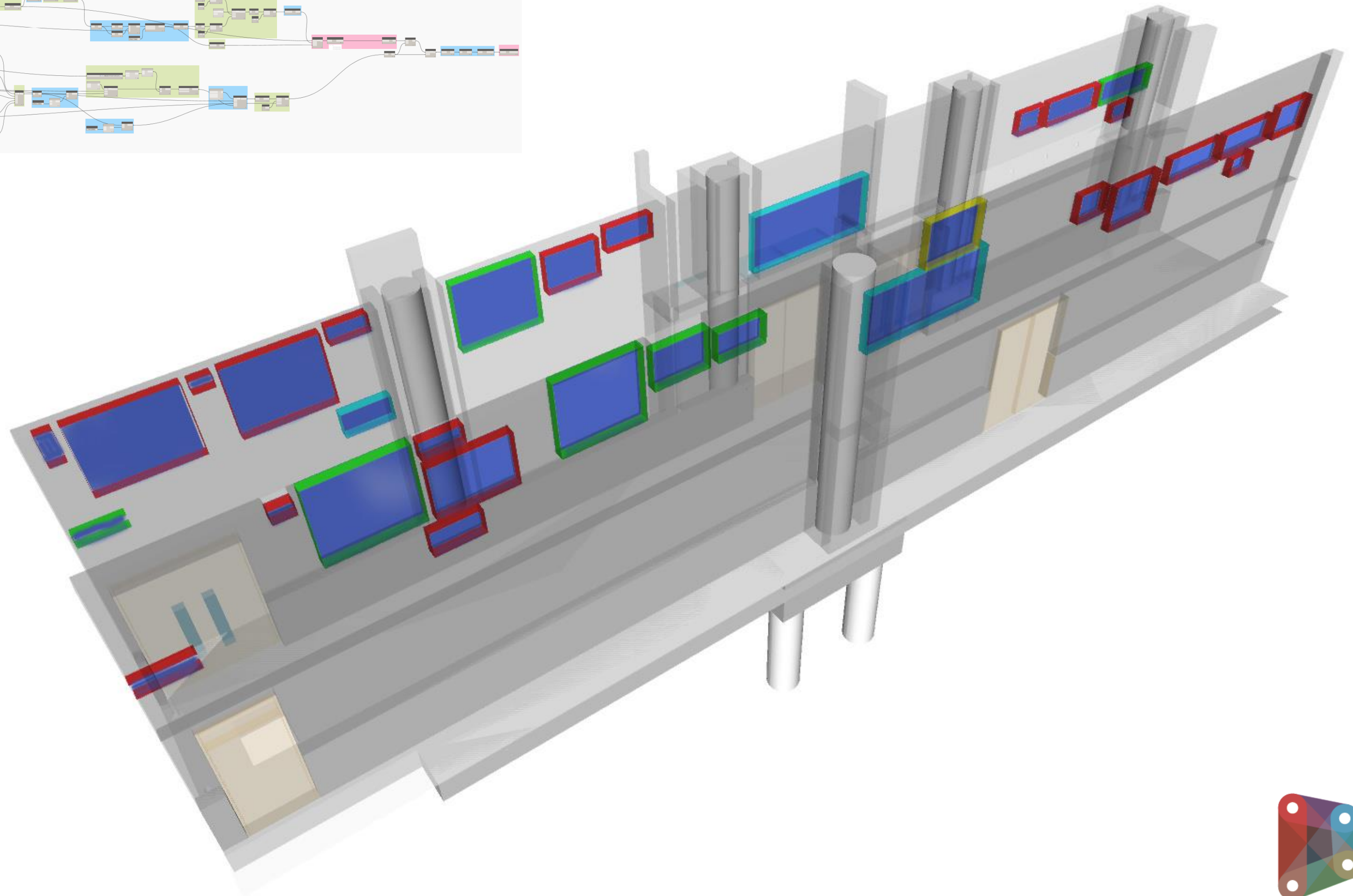
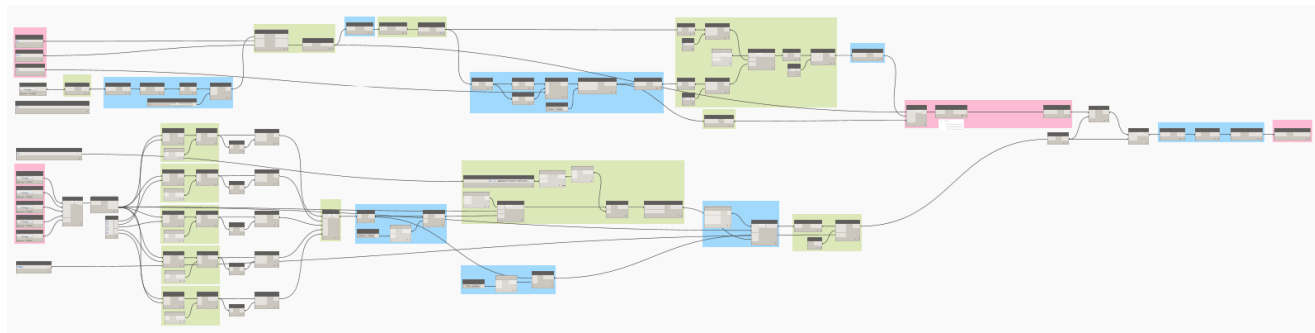
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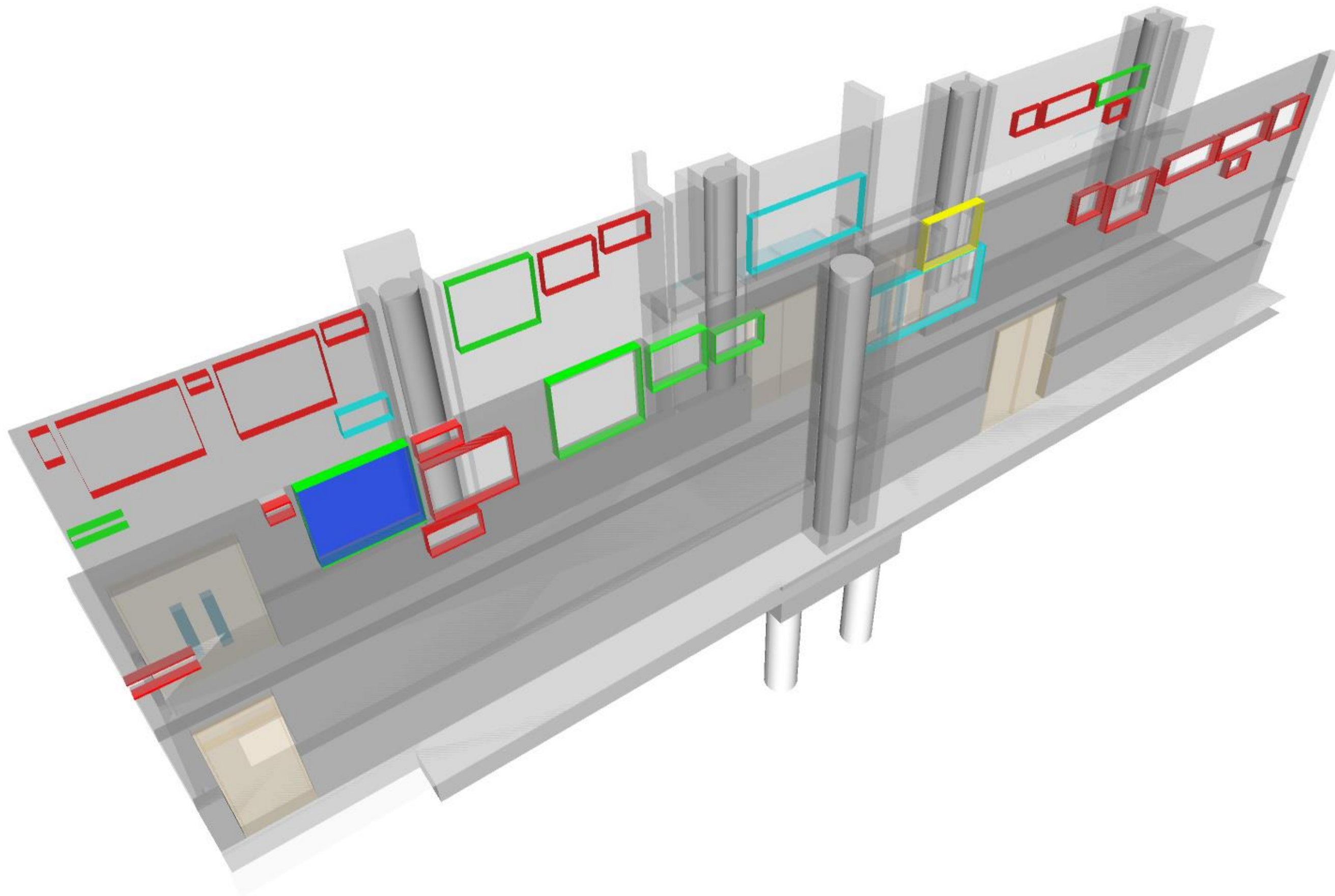
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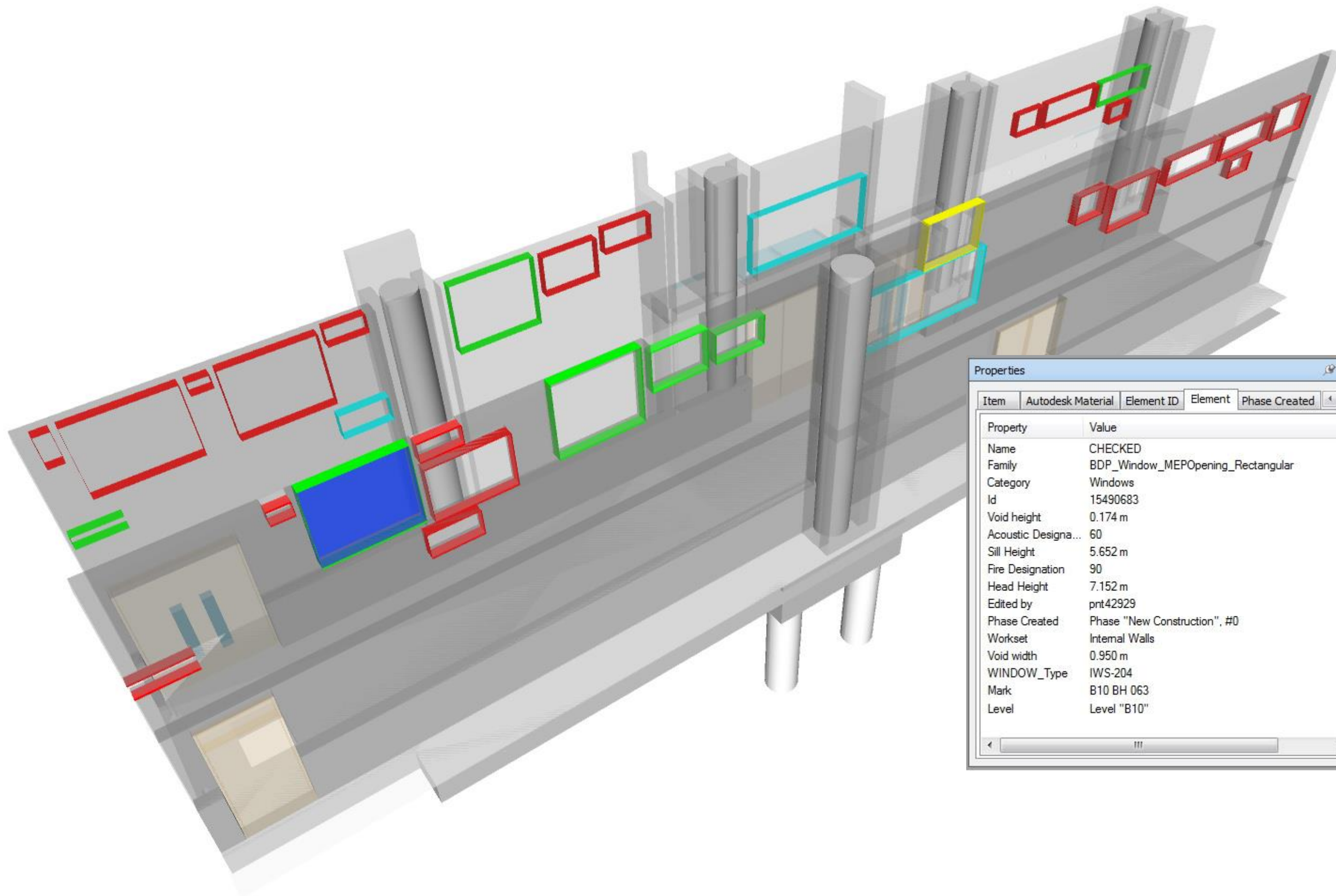


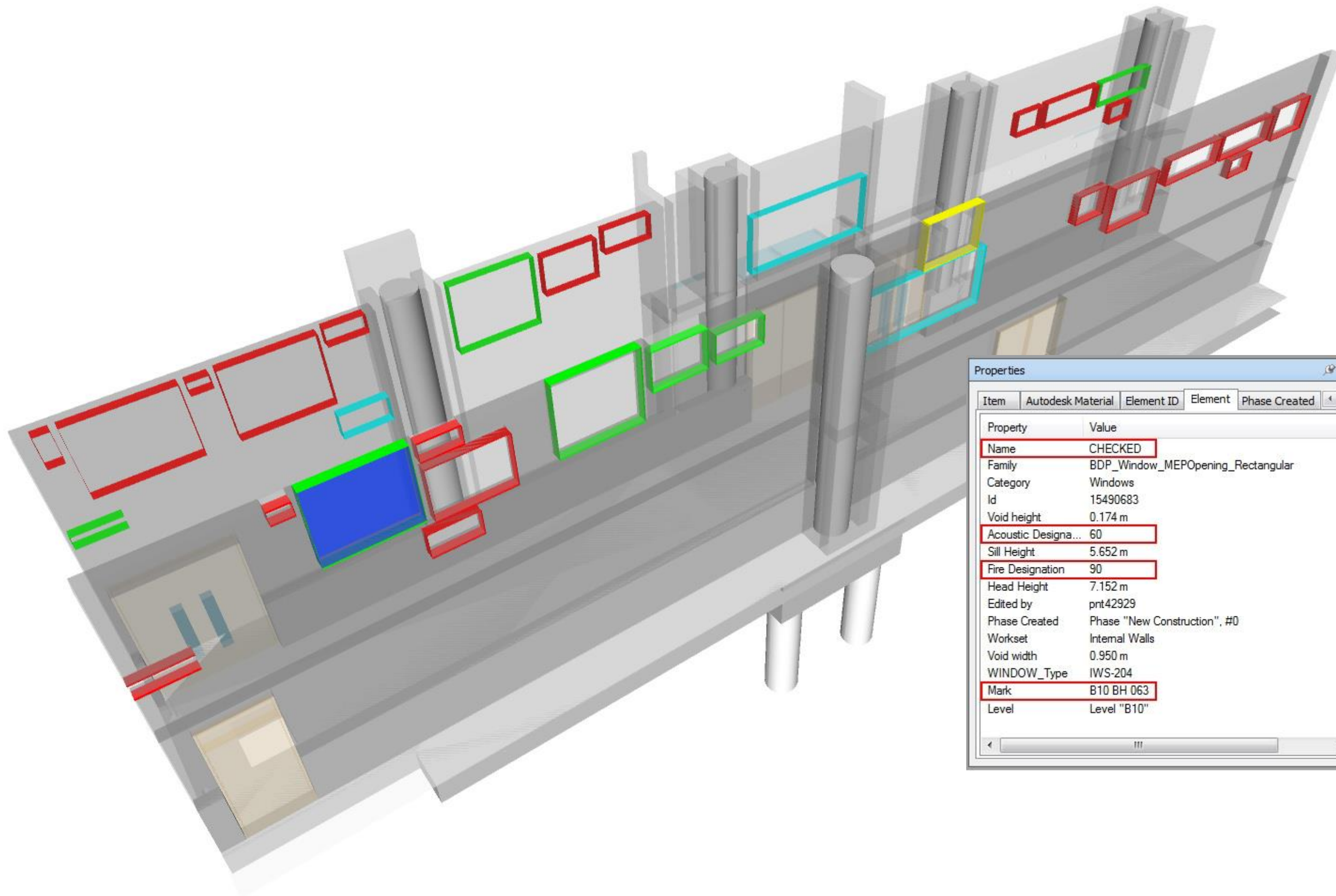


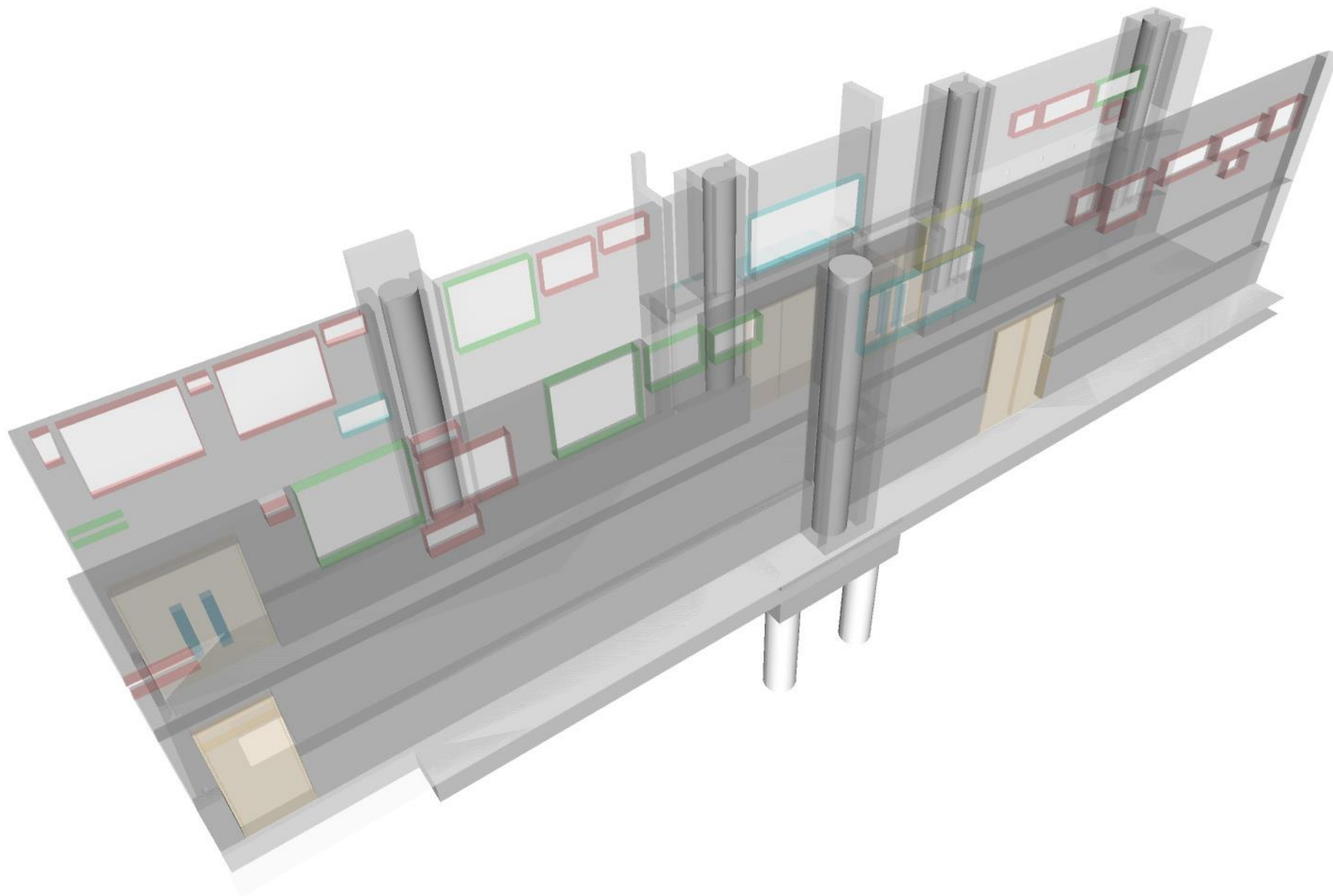


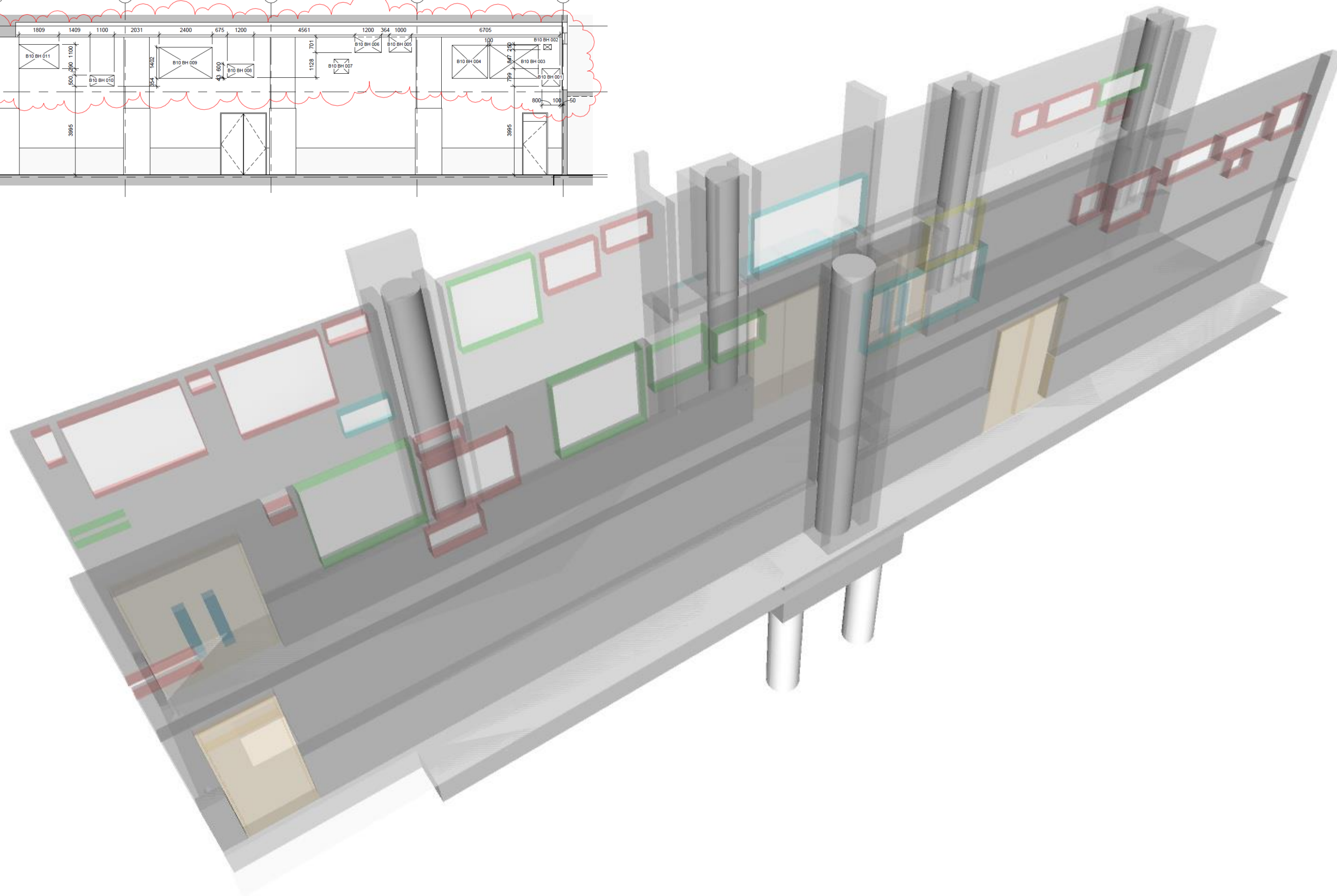
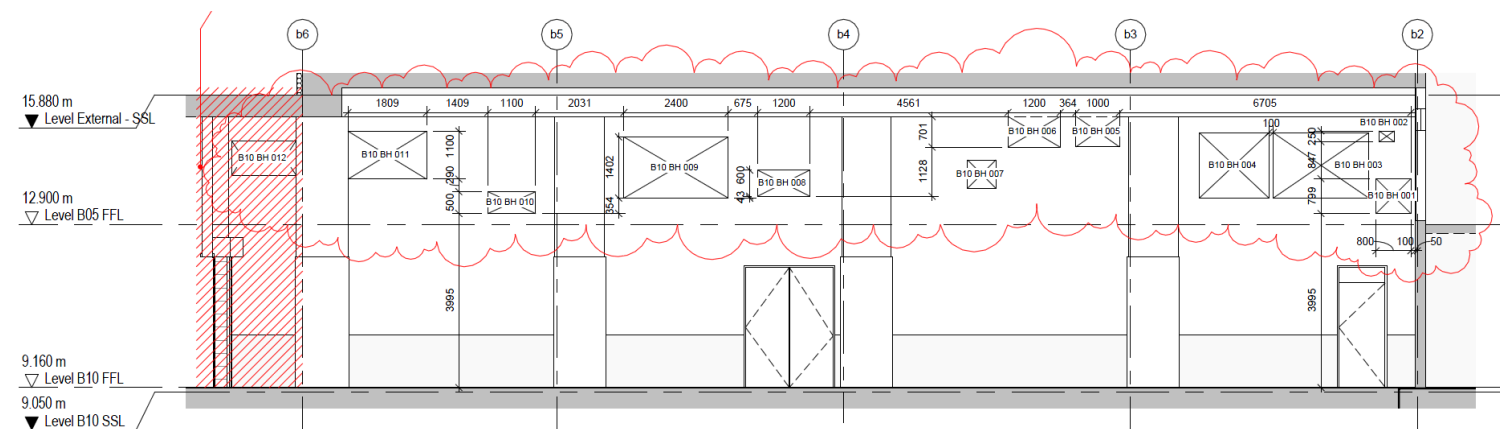


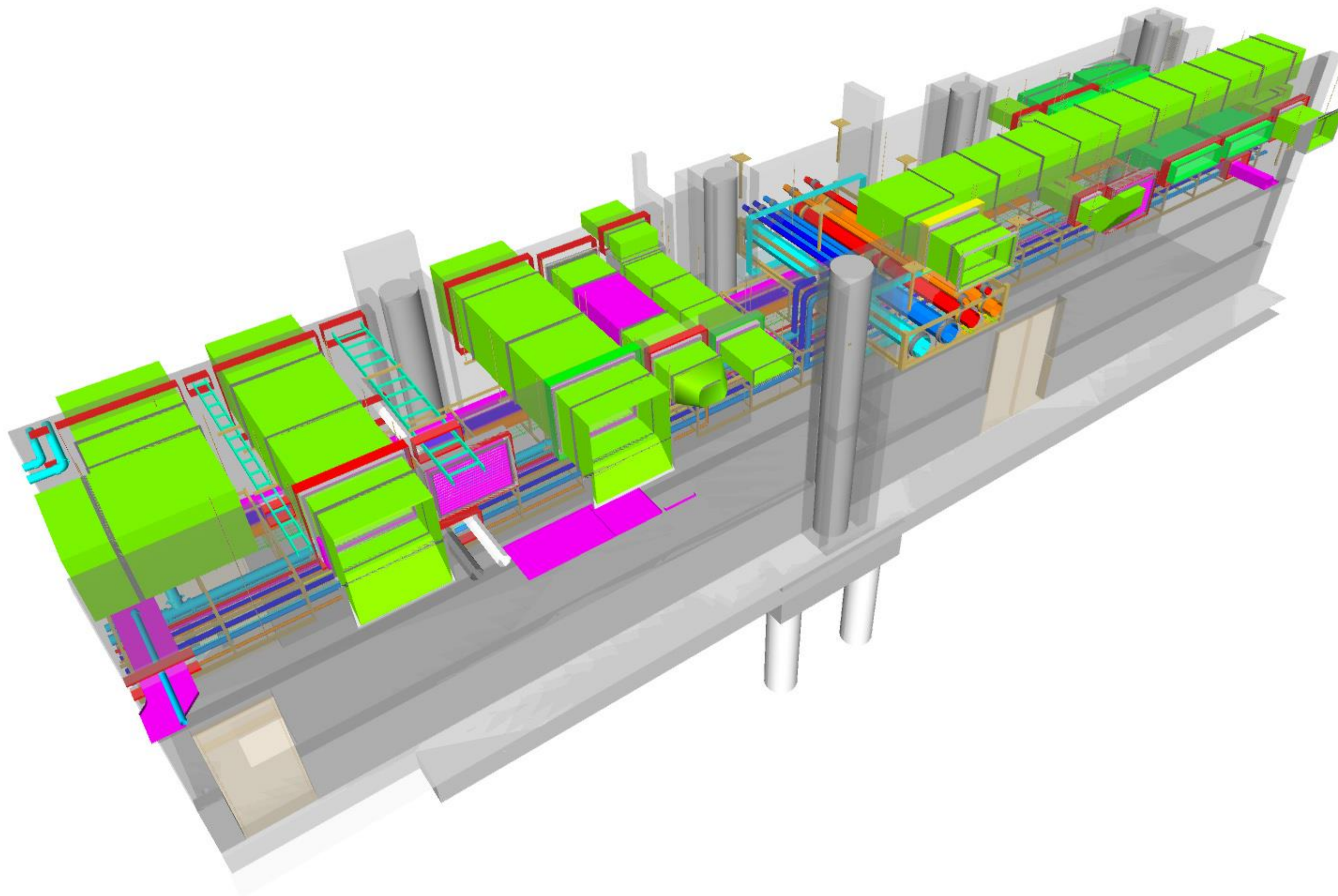




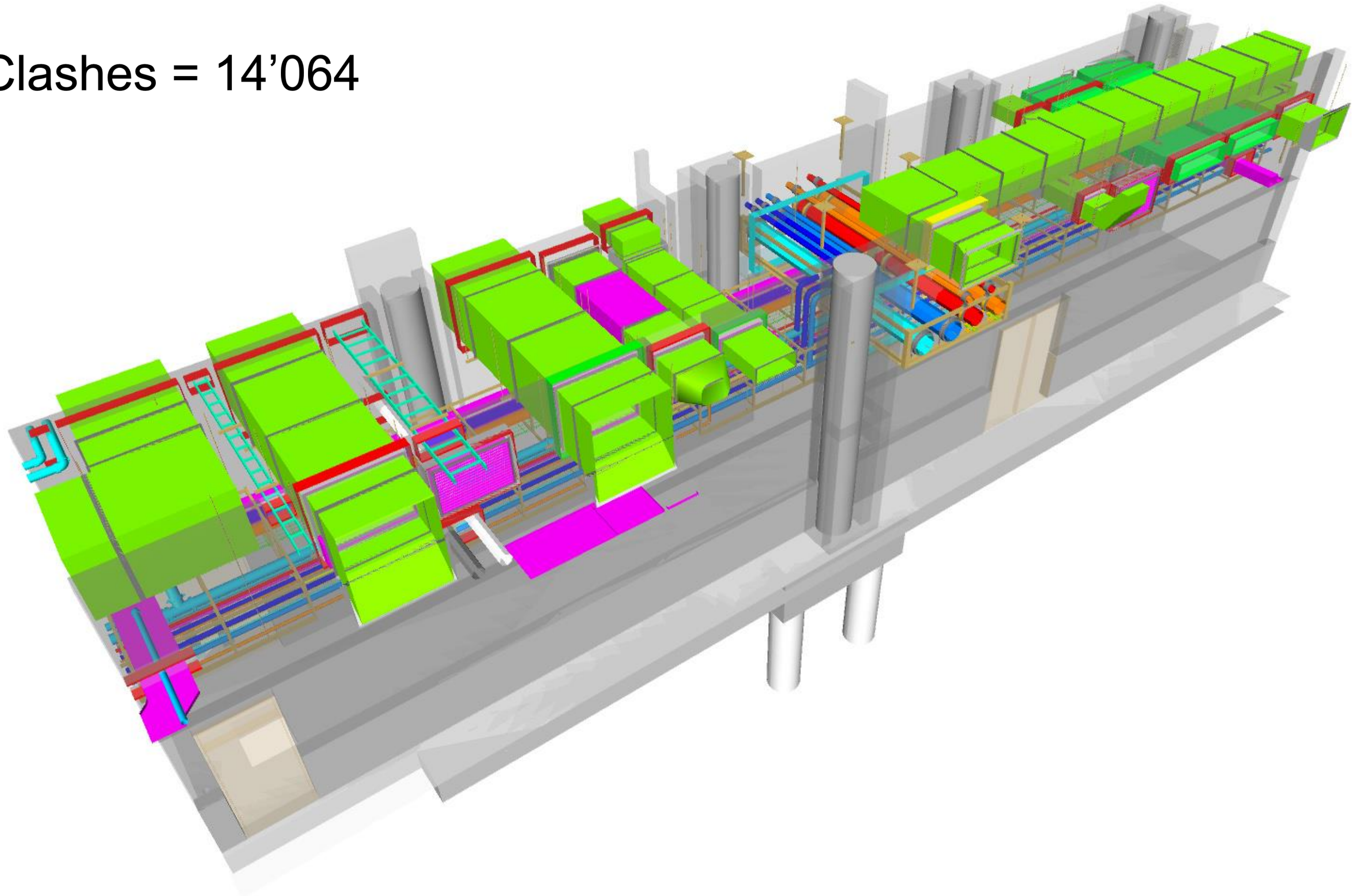




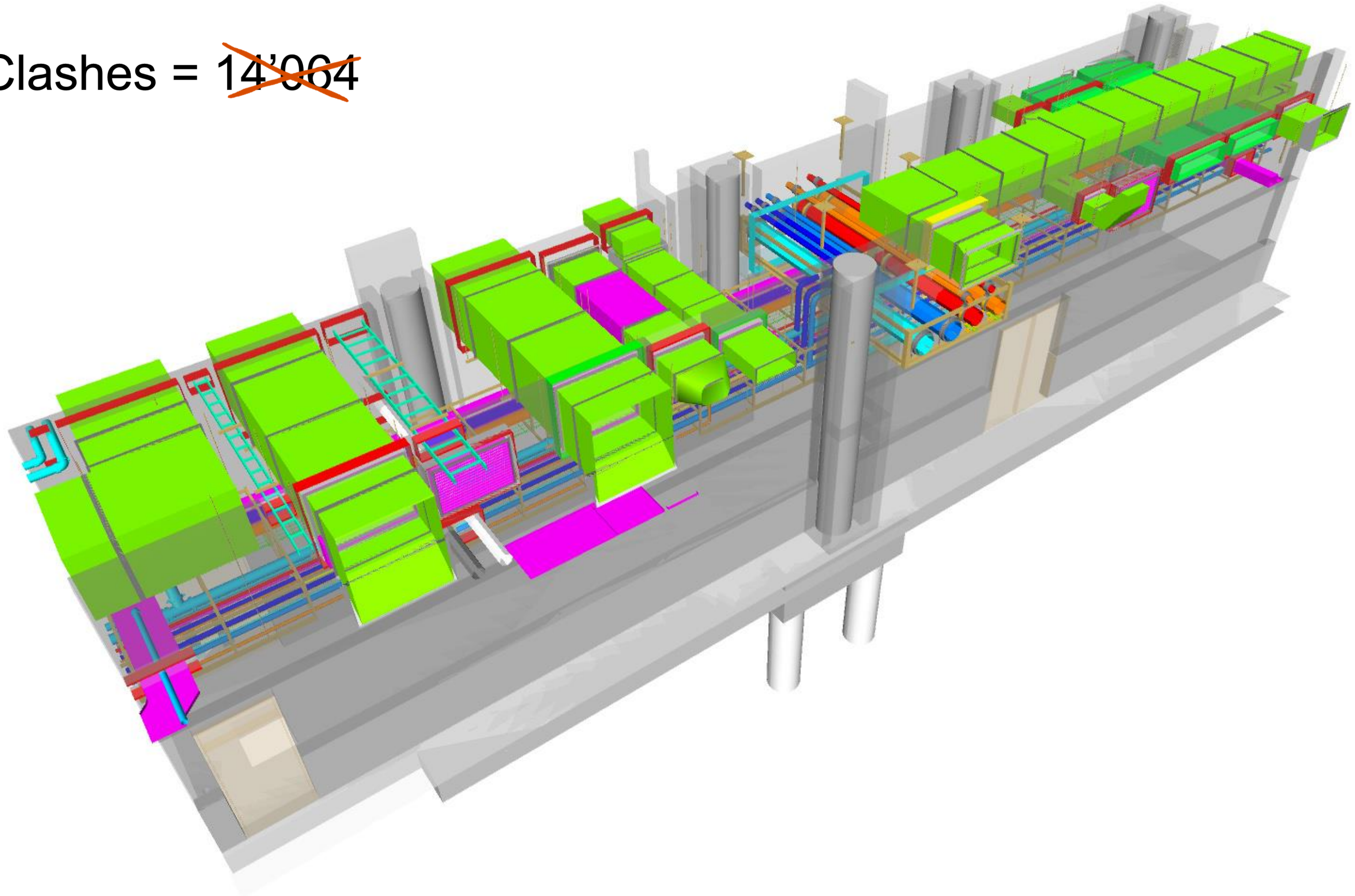




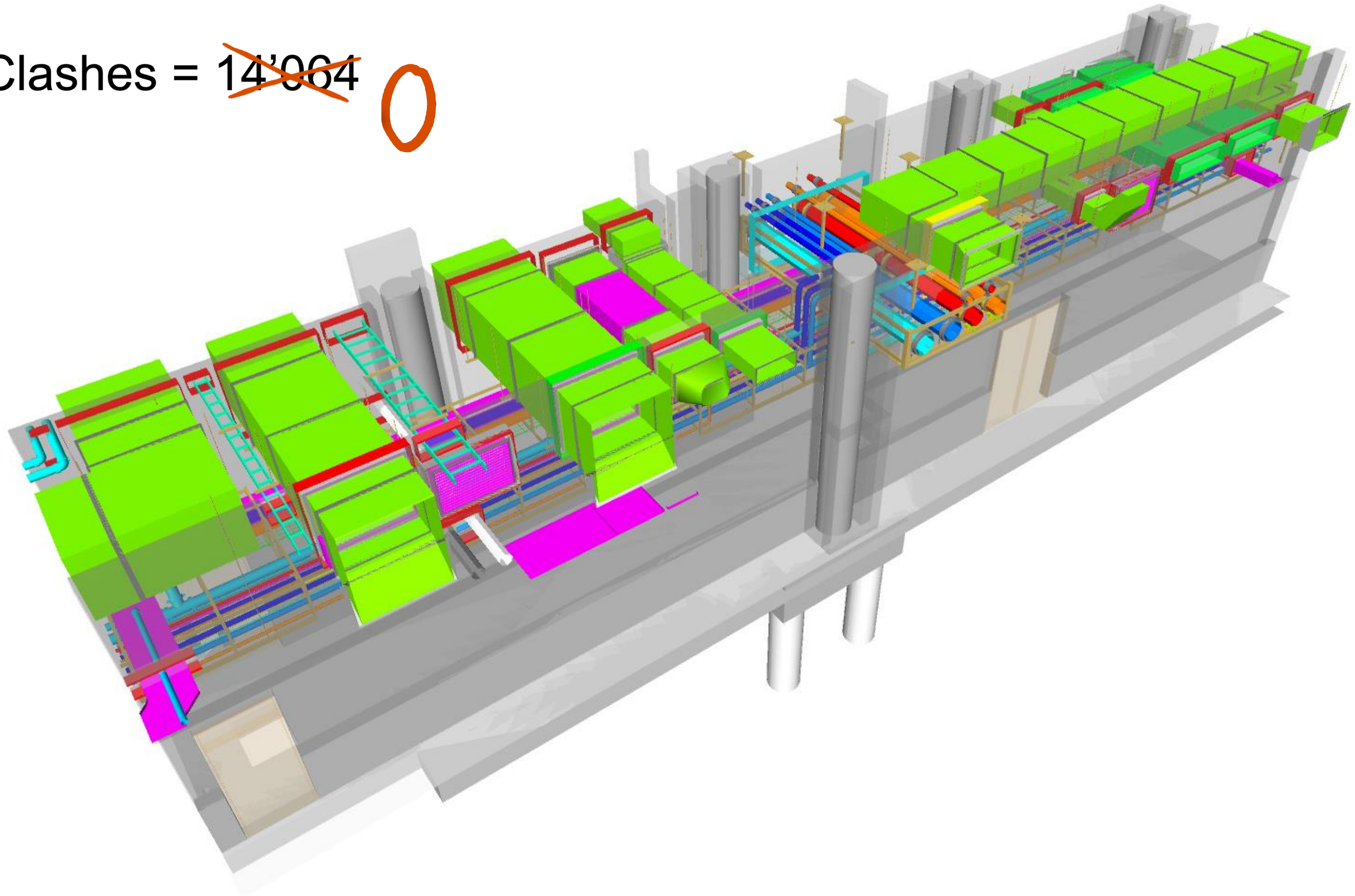
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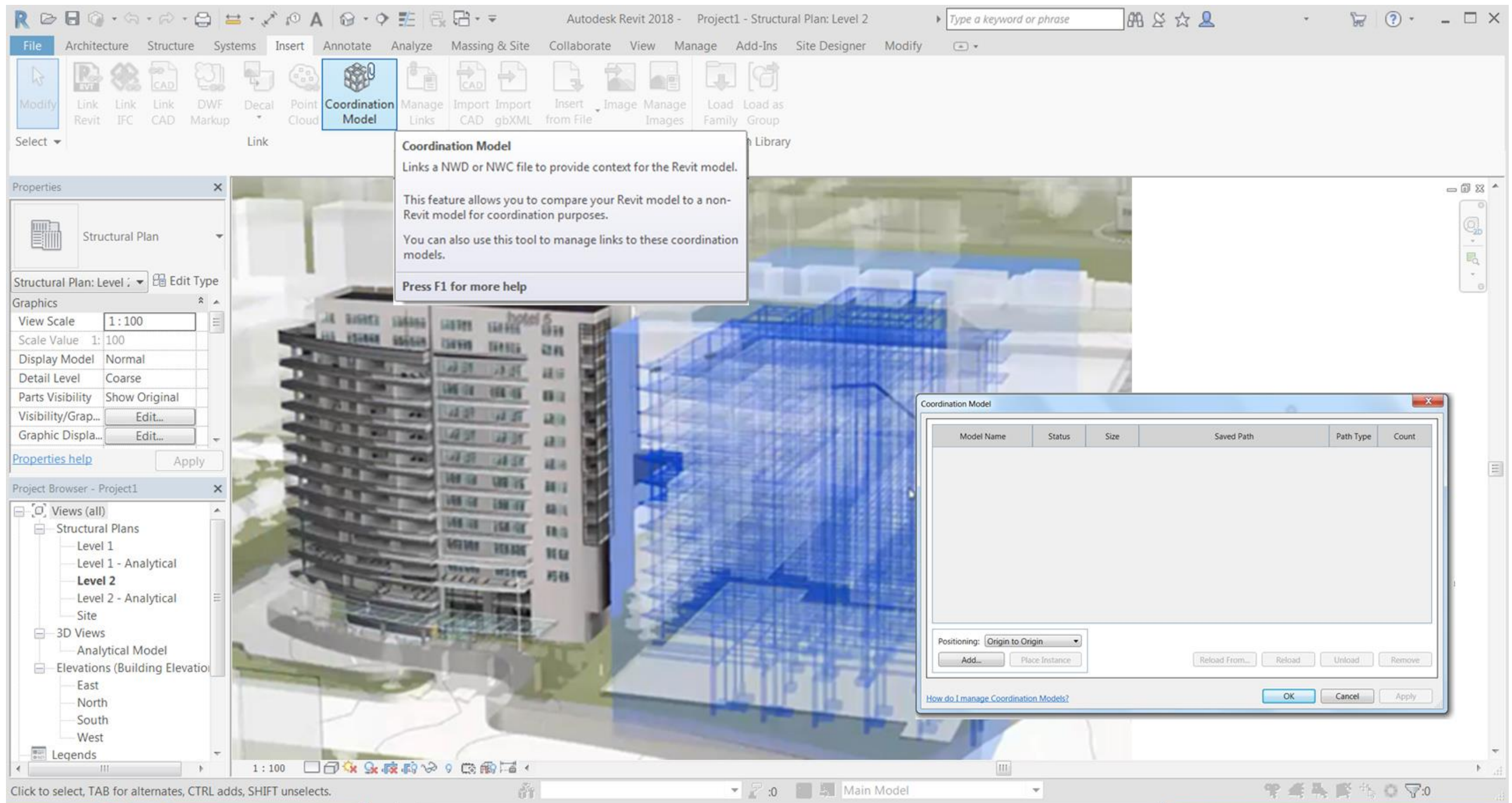


No. Clashes = ~~14'064~~



No. Clashes = ~~14'064~~ 0





Digital Processes
facilitate Off-site
Manufacture

Speed of Install
Reduced Assembly Cost
Higher Quality
Less Waste
Shorter Assembly Time
Improved Accuracy
Better Reliability
Fewer Defects
Improved Health & Safety
Reduce Onsite Commissioning
Less Risk

Standard Parts doesn't mean
Standard Design



“Change has never happened
this fast before, and it will
never be this slow again”

