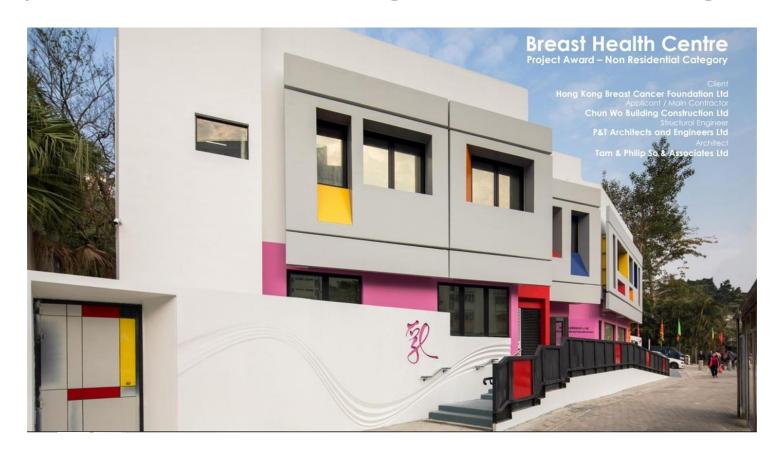
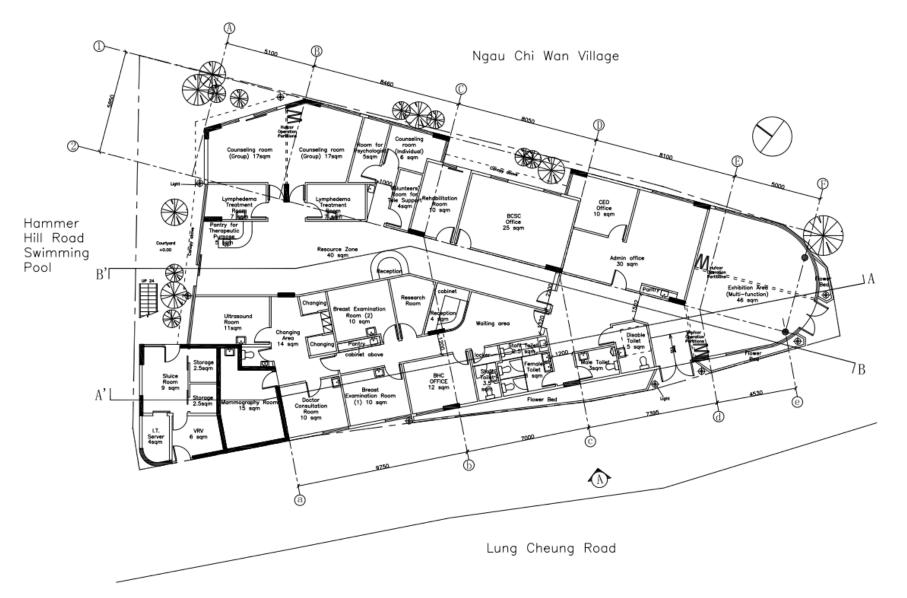
DfMA Experience Sharing – From Design to Install







Original Design

G/F PLAN 1:150 Area : 497m2

2



Site Condition

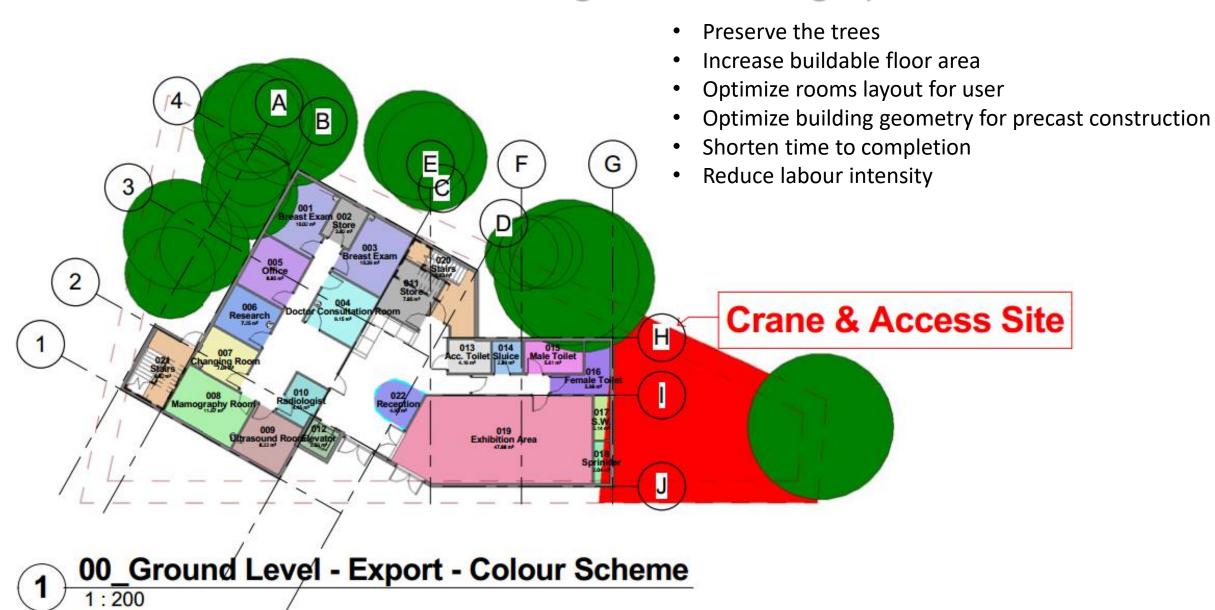


Site Condition

Specific Problems --- DfMA Opportunity --- General Constraints

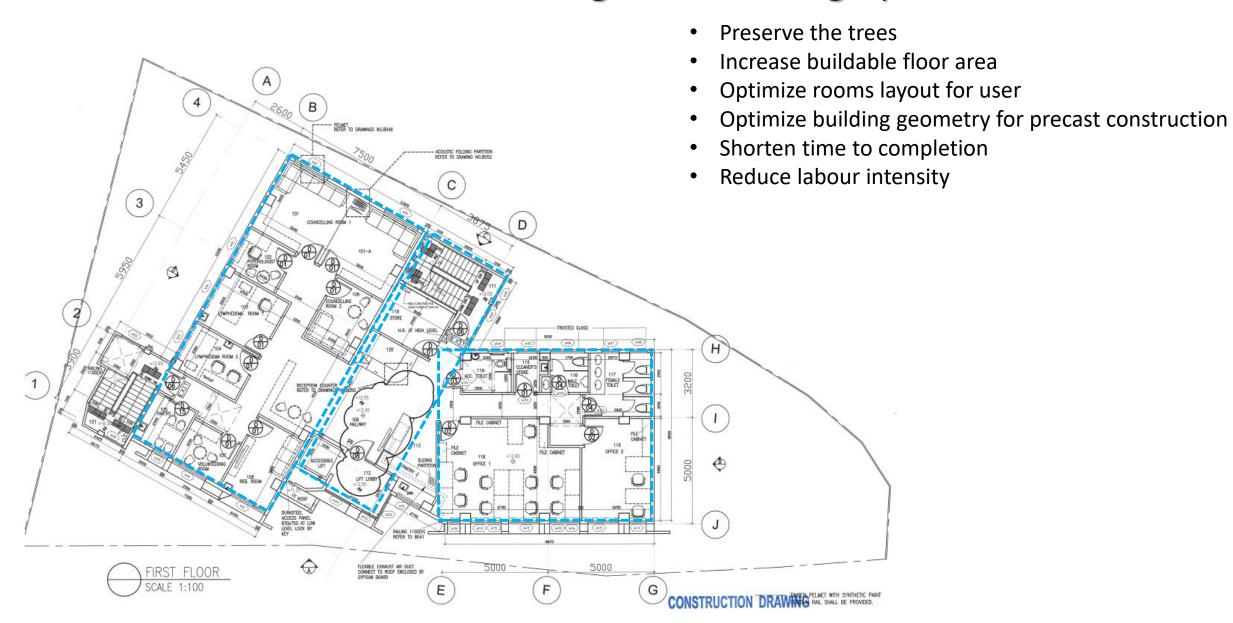


Redesign the Building by DfMA



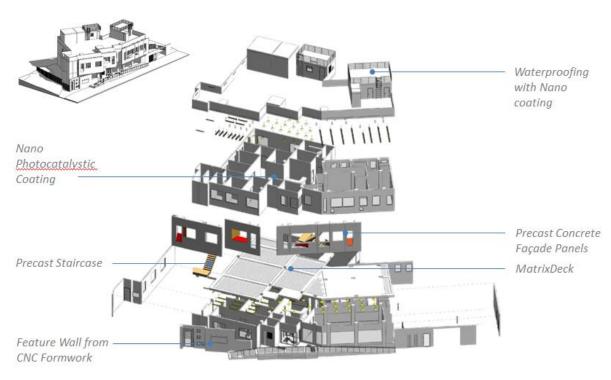


Redesign the Building by DfMA





Design for Manufacturing by Flat-Packing











Design for Manufacturing by Flat-Packing



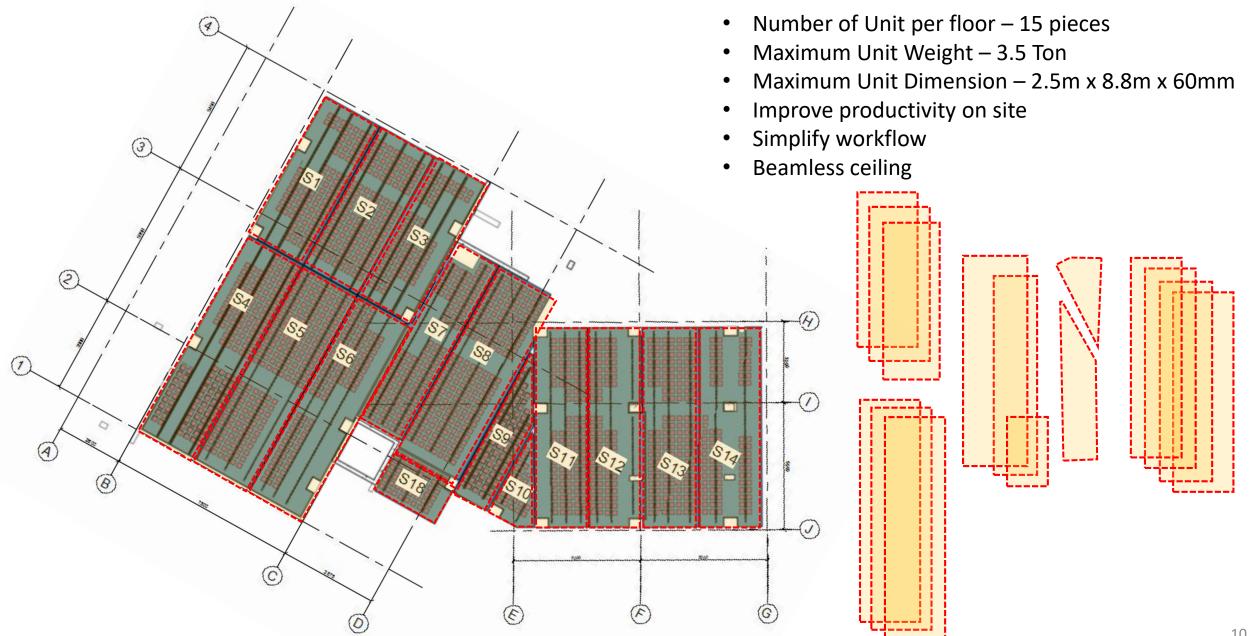




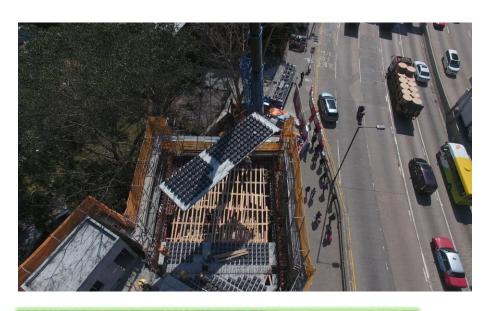




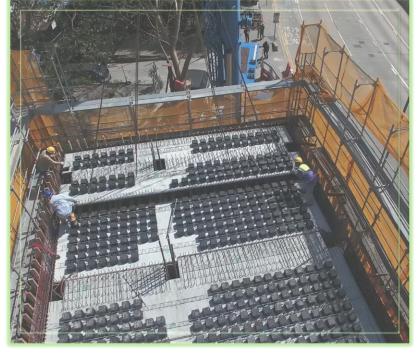
Design for Assembly of MatrixDeck System



Design for Assembly of MatrixDeck System



- Number of Unit per floor 15 pieces
- Maximum Unit Weight 3.5 Ton
- Maximum Unit Dimension 2.5m x 8.8m x 60mm
- Improve productivity on site
- Simplify workflow
- Beamless ceiling







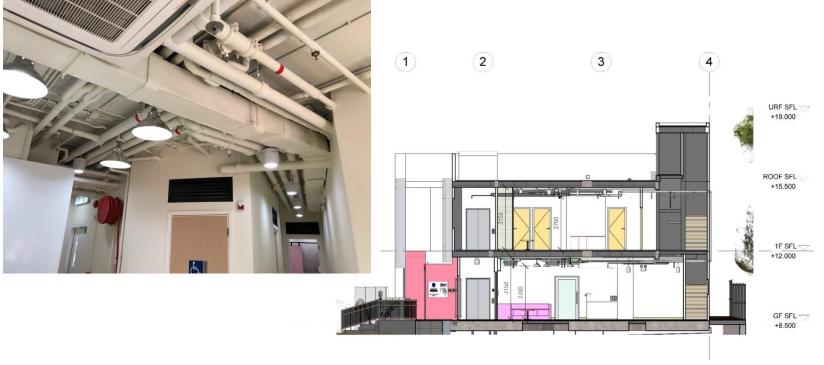
Design for Assembly of MatrixDeck System





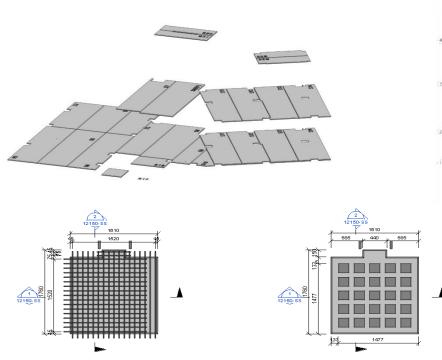
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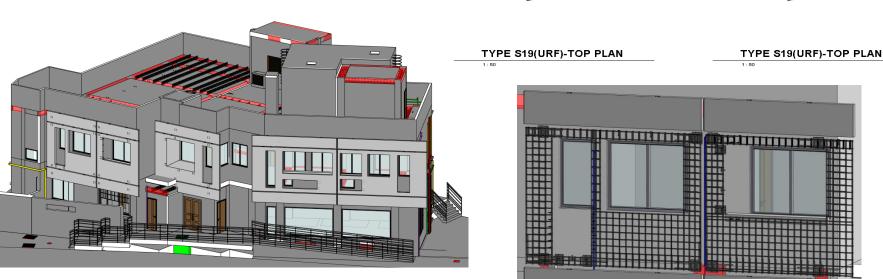




DfMA Construction driven by BIM







Α	В	С	D		
Category	Volumn	Concrete Weight(KG)	Floor		
S1	0.87 m³	2134.9	1/F		
S2	0.92 m³	2262.1	1/F		
S3	0.92 m ³ 0.83 m ³	2043.3	1/F		
S4	1.28 m ³	3141.8	1/F		
S5	1.29 m³	3171.8	1/F		
S6	1.22 m³	2980.4	1/F		
S7	0.96 m ³	2359.8	1/F		
S7	0.93 m³	2280.8	R/F		
S8	1.32 m³	3222.4	1/F		
S8	1.32 m³	3241.0	R/F		
S9	0.49 m³	1191.0	1/F		
S10	0.22 m³	547.4	1/F		
S11	0.97 m³	2380.5	1/F		
S11	0.99 m³	2380.5 2415.2	R/F		
S12	1.00 m ³ 1.01 m ³	2449.9	1/F		
S12	1.01 m³	2484.6	R/F		
S13	1.03 m ³	2534.1	1/F		
S13	1.05 m³	2534.1 2583.1	R/F		
S14	1.14 m³	2791.9	1/F		
S14	1.16 m³	2833.8	R/F		
S17	0.16 m³	397.4	1/F		
S18	0.31 m³	759.5	1/F		
S20	0.29 m³	711.4	UR/F		
S21	0.29 m³	711.4	UR/F		
S22	0.32 m³	790.7	UR/F		
S23	0.33 m³	802.7	UR/F		



DfMA Construction driven by BIM





Structural Excellence Award 2019



COMMENDATION MERIT

Design and Construction of Breast Cancer Foundation Kowloon Centre at Lung Cheung Road, Ngau Chi Wan, Kowloon

Winner: Chun Wo Building Construction Limited Hong Kong Project - Non-Residential







Client:

Hong Kong Breast Cancer Foundation Ltd

Structural Engineer:

P&T Architects and Engineers Ltd

Architect:

Tam & Philip So & Associates Ltd

Main Contractor:

Chun Wo Building Construction Limited

Others:

MDM Group Inc Ltd - Specialist Sub-Contractor





ADVANCED CONSTRUCTION TECHNOLOGIES (ACT)

PRE-APPROVED LIST ITEM CODE OF MATRIXDECK SYSTEM: PA18-037



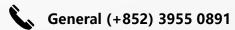


Code	Technology	Benefits	Make and Model	Product Descriptions	Reference Photo
PA18- 037	Construction Material 建築物料	Enhance productivity and built quality 提高生產力及 提升建造質素	MDM Group Inc. Ltd. MatrixDeck Panel Configuration Models A200 to A850	MatrixDeck System is a green technology. It is essentially a structural floor system that provides a 150kg per square meter of carbon emission saving when compared to conventional building system. It is a high performance reinforced concrete floor slab that allows greater column spacing and minimizes the material usage of concrete and steel reinforcement when compared to conventional structural floor system. 此產品是一項綠色科技。以此產品作為樓宇地台,將能減少碳排放達 150kg/平方米。 同時,此產品相較傳統鋼筋混凝土結構系統能提高強度,從而優化設計如增加柱子間距。	











The End – Thank You