



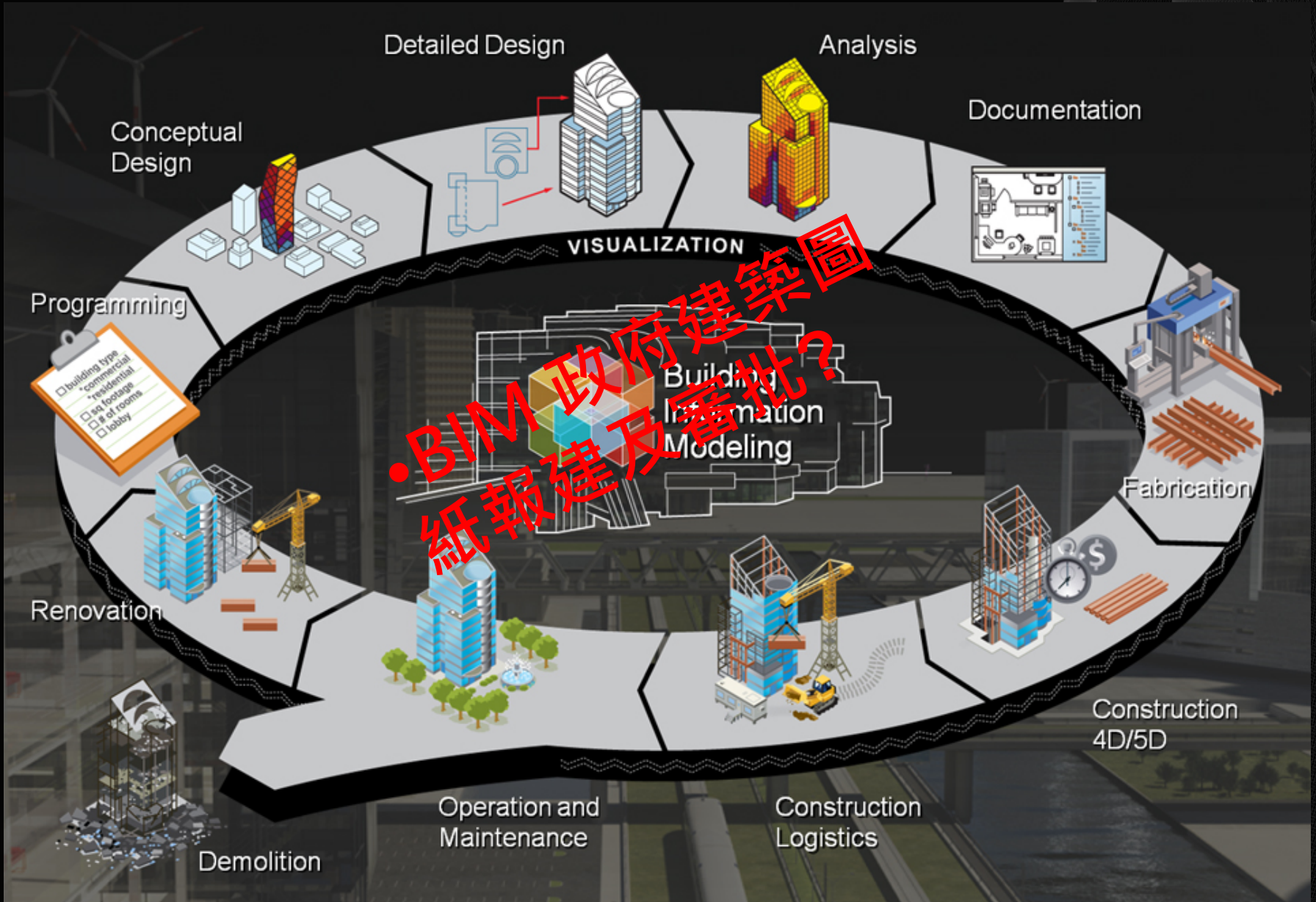
The Hong Kong Institute of
Building Information Modelling
香港建築信息模擬學會

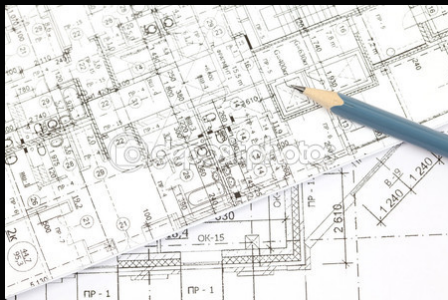
Statutory Submissions in BIM

冯树坚

注册建筑师
信息化建筑模型系统总建筑师
信息化建筑模拟学会会长
香港大学/香港珠海学院客席教授



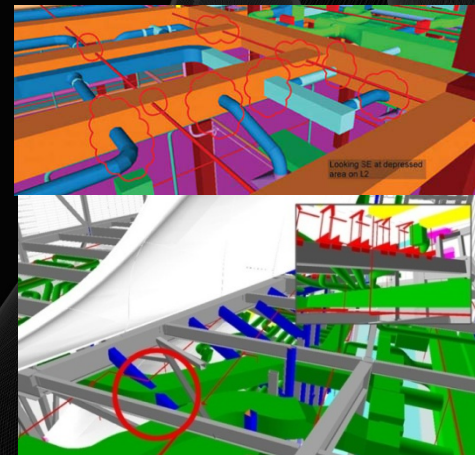




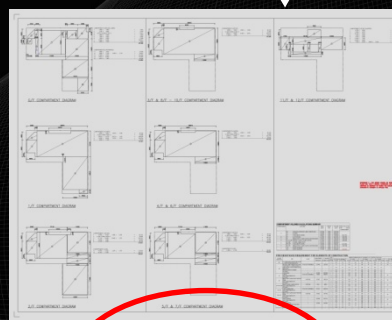
施工图

BIM設計

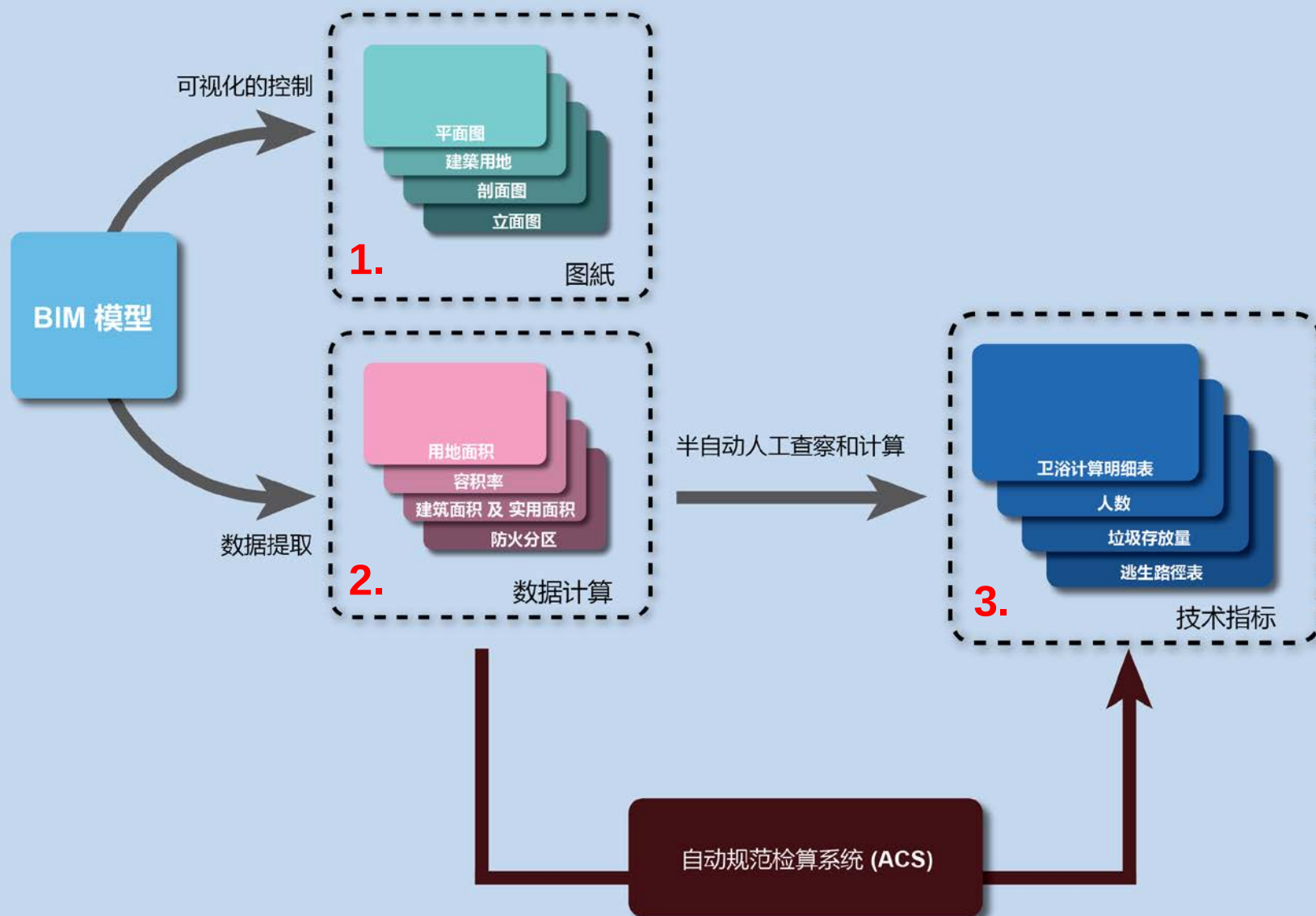
單一來源數字庫

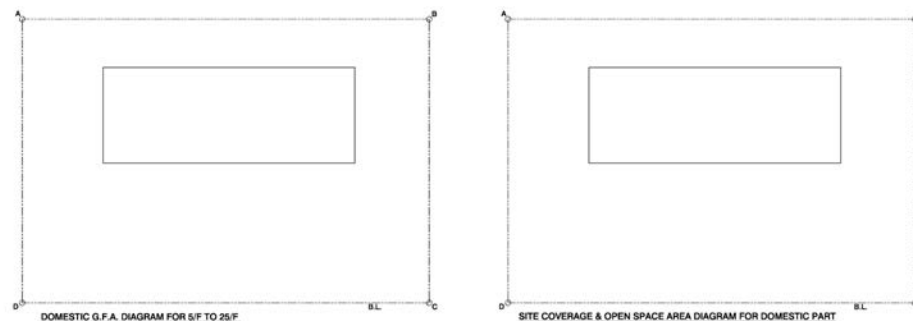
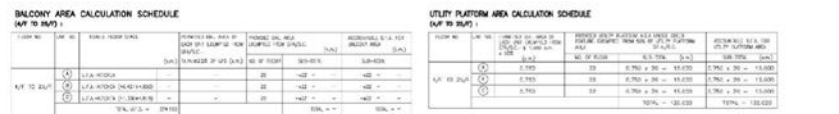


碰撞檢查



報建/審批圖





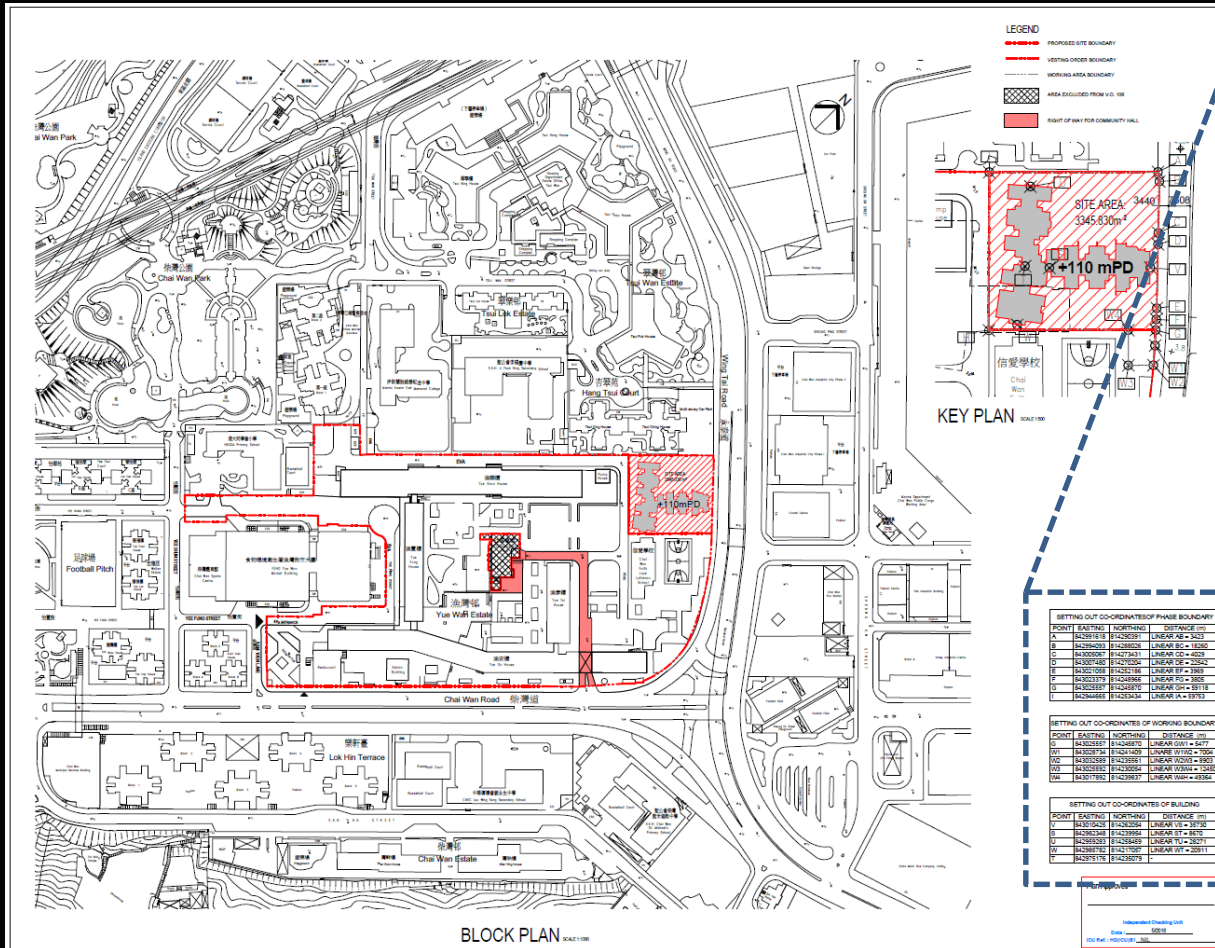
(L) REFUSE CHAMBER AREA CALCULATION:-

AREA DIAGRAM FOR REFUSE CHAMBER
AREA CALCULATION FOR REFUSE CHAMBER

3. 技術指標要求

| 香港房屋委员会及房屋署 (HKHA) – 公共房屋

规划总平面图及用地红线坐标 Master Layout Plan & Coordinates of Boundary

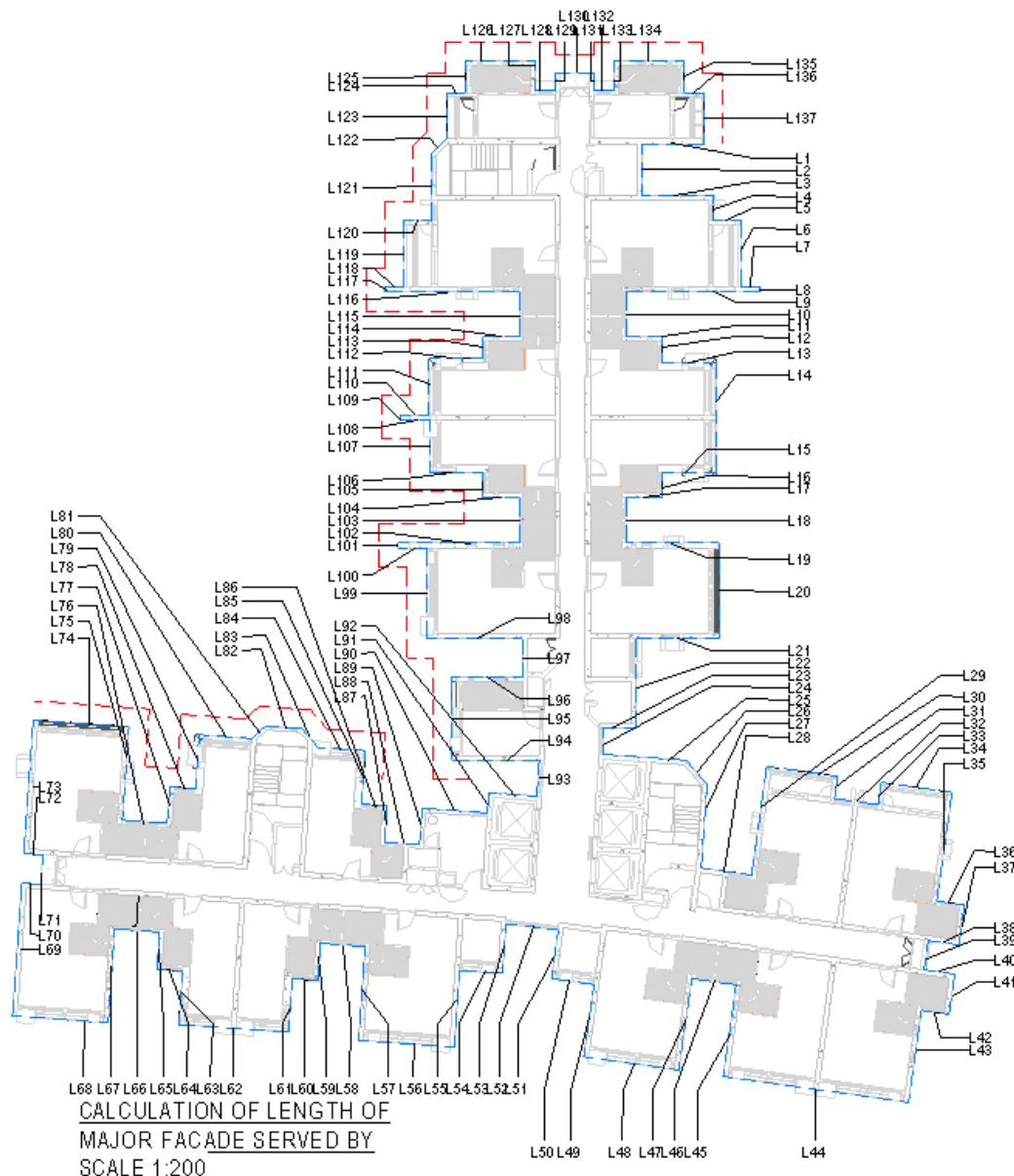


EVA Plan & Calculations 消防車道图及计算

LENGTH OF PERIMETER OF BUILDING AT TYPICAL FLOOR

MARK	DISTANCE	MARK	DISTANCE	MARK	DISTANCE
L1	3258	L47	4845	L93	1887
L2	2740	L48	5025	L94	4567
L3	3740	L49	3824	L95	4350
L4	1280	L50	2250	L96	3675
L5	1458	L51	2966	L97	2000
L6	3495	L52	2762	L98	5032
L7	581	L53	2610	L99	4775
L8	250	L54	2250	L100	1499
L9	7015	L55	4015	L101	250
L10	2350	L56	5025	L102	6374
L11	1902	L57	4525	L103	2350
L12	1350	L58	2350	L104	1898
L13	2830	L59	1950	L105	1350
L14	5750	L60	1350	L106	2307
L15	2830	L61	2810	L107	2750
L16	1350	L62	5750	L108	1524
L17	1902	L63	2810	L109	250
L18	2350	L64	1350	L110	1499
L19	4897	L65	1950	L111	2966
L20	5025	L66	2350	L112	2832
L21	4335	L67	4525	L113	1145
L22	4700	L68	5025	L114	1903
L23	1755	L69	6950	L115	2350
L24	1354	L70	590	L116	7019
L25	4355	L71	1650	L117	250
L26	1657	L72	590	L118	979
L27	4405	L73	7011	L119	3495
L28	2955	L74	5025	L120	1452
L29	5750	L75	4895	L121	3515
L30	3745	L76	2350	L122	1056
L31	1175	L77	1900	L123	2427
L32	2309	L78	1350	L124	972
L33	1175	L79	2830	L125	1675
L34	3745	L80	2750	L126	3700
L35	5750	L81	590	L127	1550
L36	1455	L82	1830	L128	1015
L37	2115	L83	1309	L129	910
L38	1630	L84	2485	L130	2050
L39	1950	L85	2805	L131	910
L40	1630	L86	1350	L132	1015
L41	2115	L87	1900	L133	1550
L42	1455	L88	1830	L134	3700
L43	4575	L89	1900	L135	1675
L44	5800	L90	3435	L136	1043
L45	4845	L91	1055	L137	2875
L46	2350	L92	2515		
SUB-TOTAL	139508	SUB-TOTAL	134812	SUB-TOTAL	104677

TOTAL LENGTH OF PERIMETER OF
BUILDING AT TYPICAL FLOOR
 $139508 + 134812 + 104677 = 378997$



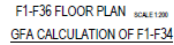
Site Elevation 立面图



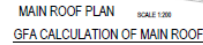
Typical Floor Plan 标准屋平面图



BIM - produced drawing – BIM 生产图纸

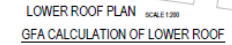


PORTION	USAGE	Area (m ²)
2	ACOUSTIC FIN	0.254
3	ACOUSTIC FIN	0.254
4	ACOUSTIC FIN	0.330
5	ACOUSTIC FIN	0.375
6	ACOUSTIC FIN	0.217
GFA OF ACOUSTIC FIN PER FLOOR=		1.44



NON-ACCOUNTABLE GFA OF MAIN ROOF FLOORS		
PORTION	USAGE	Area (sqf)
A	EMERGENCY GENERATOR ROOM	78.00
B	CABLE ROOM	5.75
C	VENT DUCT ROOM	10.20
D	PIPE DUCT 1 (PD 1)	3.15
E	PIPE DUCT 2 (PD 2)	8.10
F	HOSE REEL	1.00
M	VACANT BAY FOR BUFFER TANK (MAIN ROOF LEVEL)	25.00
N	STAIRCASE TO SERVICE ROOMS (MAIN ROOF LEVEL)	11.10
TOTAL =		143.30

CALCULATION DOMESTIC GFA OF BLOCK		
LOCATION	USAGE	AREA
GROUND FLOOR	DOMESTIC	126.3
F1 TO F4	DOMESTIC	33,421
F5 TO F8	DOMESTIC	188.6
ACQUETIC PAV FROM F1 TO 8	DOMESTIC	5.1
INCULDED PROJECTED PANEL	DOMESTIC	3.8
INCULDED PROJECTED PANEL	DOMESTIC	6.8
INCULDED PROJECTED PANEL	DOMESTIC	75.5
ROOF FLOOR	DOMESTIC	28.6
GRAND TOTAL DOMESTIC GFA OF BLOCK =		367.45



NON-ACCOUNTABLE GFA OF MAIN ROOF FLOORS		
PORTION	USAGE	Area (sqf)
A	EMERGENCY GENERATOR ROOM	78.00
B	CABLE ROOM	5.10
C	VENT DUCT ROOM	10.20
D	PIPE DUCT 1 (PD 1)	3.10
E	PIPE DUCT 2 (PD 2)	8.10
F	HOSE REEL	1.00
M	VACANT BAY FOR BUFFER TANK (MAIN ROOF LEVEL)	25.00
N	STAIRCASE TO SERVICE ROOMS (MAIN ROOF LEVEL)	11.10
TOTAL =		143.60

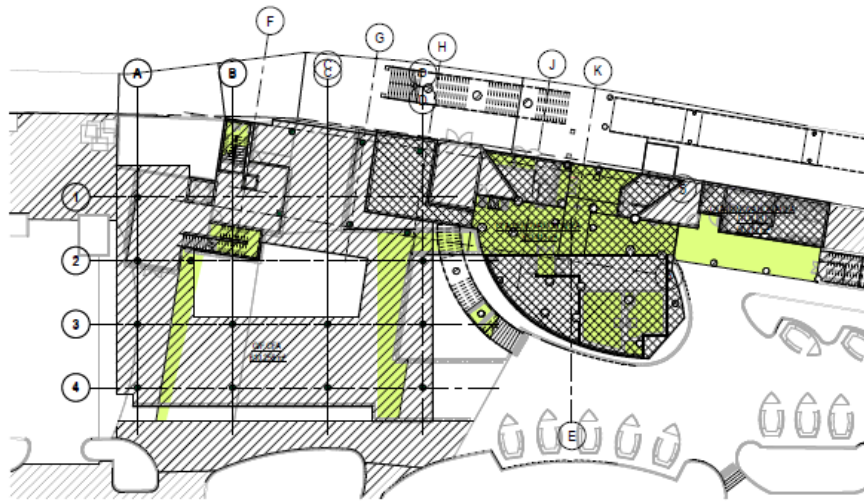
CALCULATION DOMESTIC GFA OF BLOCK		
LOCATION	USAGE	AREA
GROUND FLOOR	DOMESTIC	126.3
F1 TO F4	DOMESTIC	33,421
F5 TO F8	DOMESTIC	188.6
ACOUSTIC Rm FROM F1 TO 8	DOMESTIC	5.1
INCULCATED PROJECTED PANEL	DOMESTIC	3.8
INCULCATED PROJECTED PANEL	DOMESTIC	6.8
INCULCATED PROJECTED PANEL	DOMESTIC	75.5
ROOF FLOOR	DOMESTIC	28.6
GRAND TOTAL DOMESTIC GFA OF BLOCK =		367.45

13.02 < 24m (MAX ALLOWED)

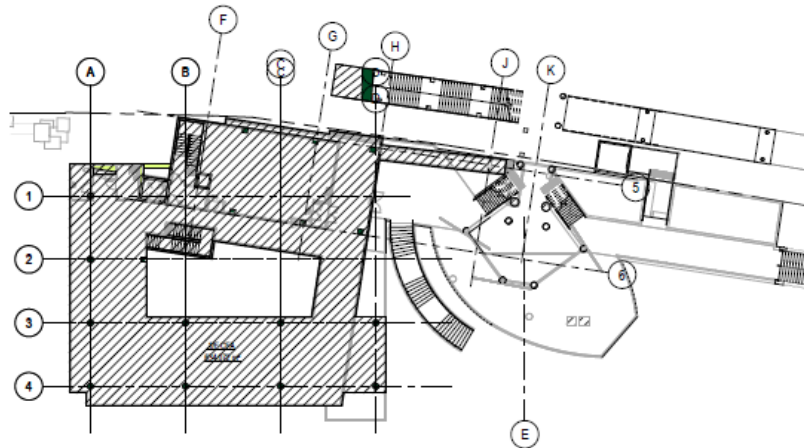


I 建築署 (ASD) – 政府建築





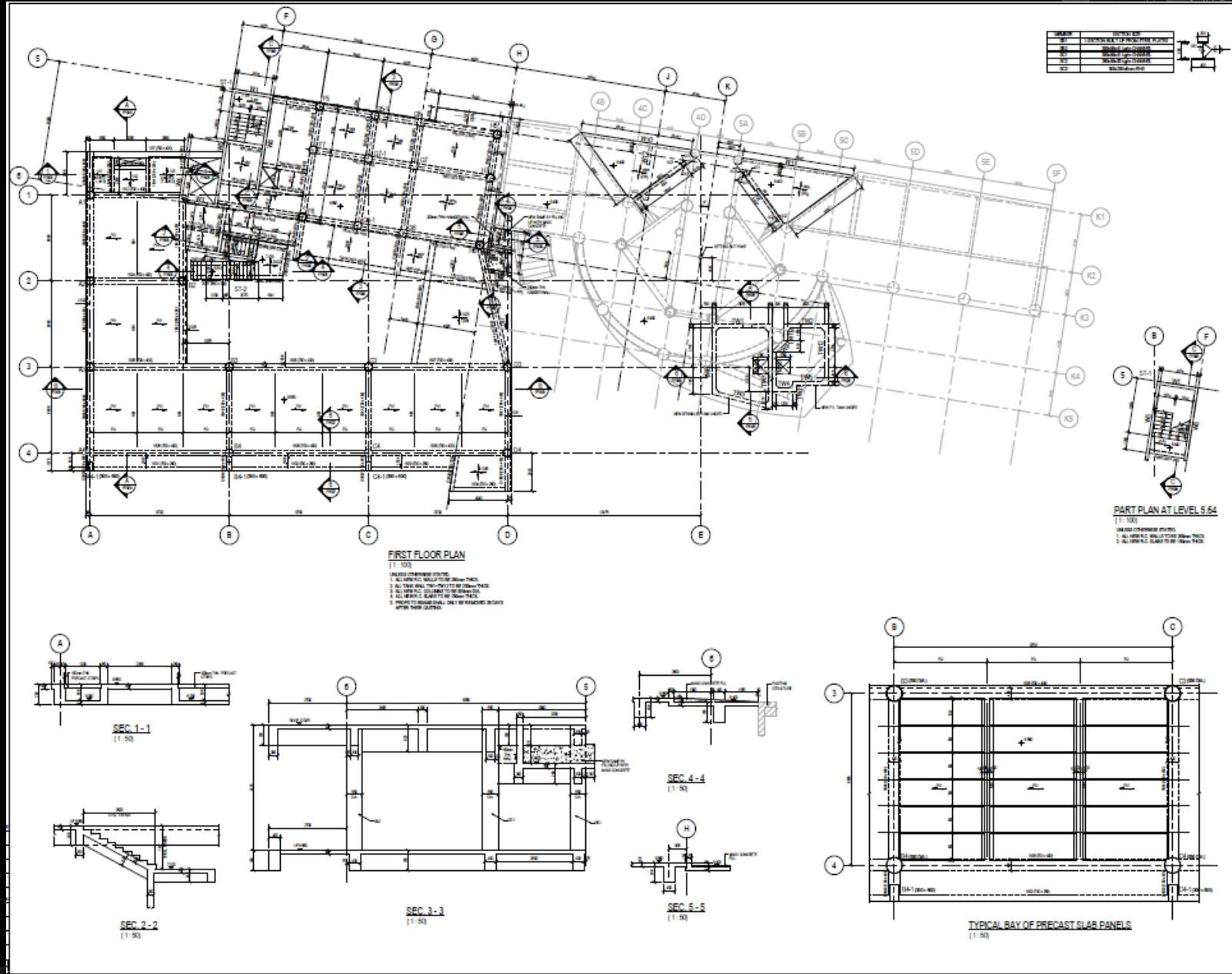
G/F - CFA DIAGRAM



1/F - CFA DIAGRAM

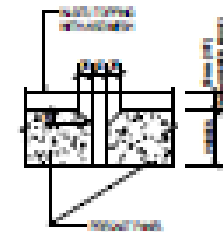
CFA SCHEDULE		
LEVEL	AREA NAME	AREA
G/F	G/F CFA	510.258 m ²
G/F	CFA RENOVATION AREA	332.413 m ²
G/F	CFA RENOVATION AREA (TOILET)	103.301 m ²
G/F	G/F CFA	992.942 m ²
1/F	1/F CFA	534.072 m ²
1/F	1	534.072 m ²
Grand total: 4		1027.014 m ²

NOTES			DATE			CFA CALCULATION	ARCHITECTURAL BRANCH
			DRAWN BY				
			CHECKED BY				
			APPROVED BY				
	PROJECT NO.		1 : 200		AB/8282/SCSK01		
	PROJECT NO.		PROJECT NO.				
	PROJECT NO.		PROJECT NO.				
	PROJECT NO.		PROJECT NO.				
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	PROJECT NO.		PROJECT NO.				
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PROJECT NO.		PROJECT NO.					

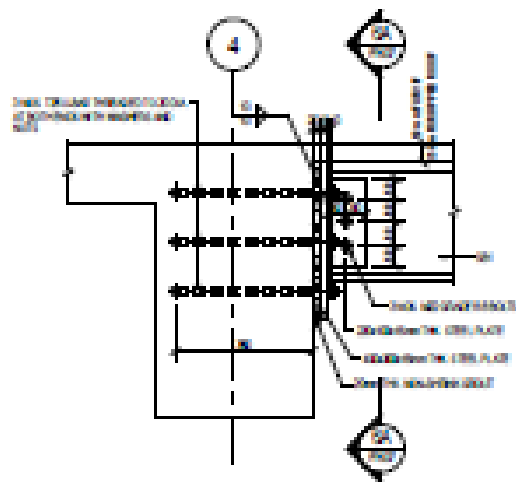




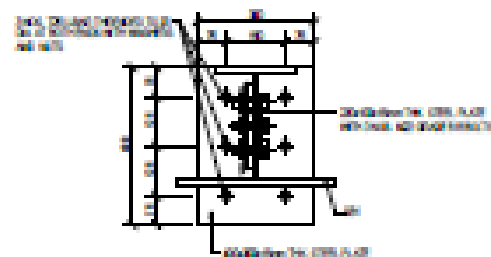
TYPICAL DETAIL OF PRECAST SLAB
(1:20)



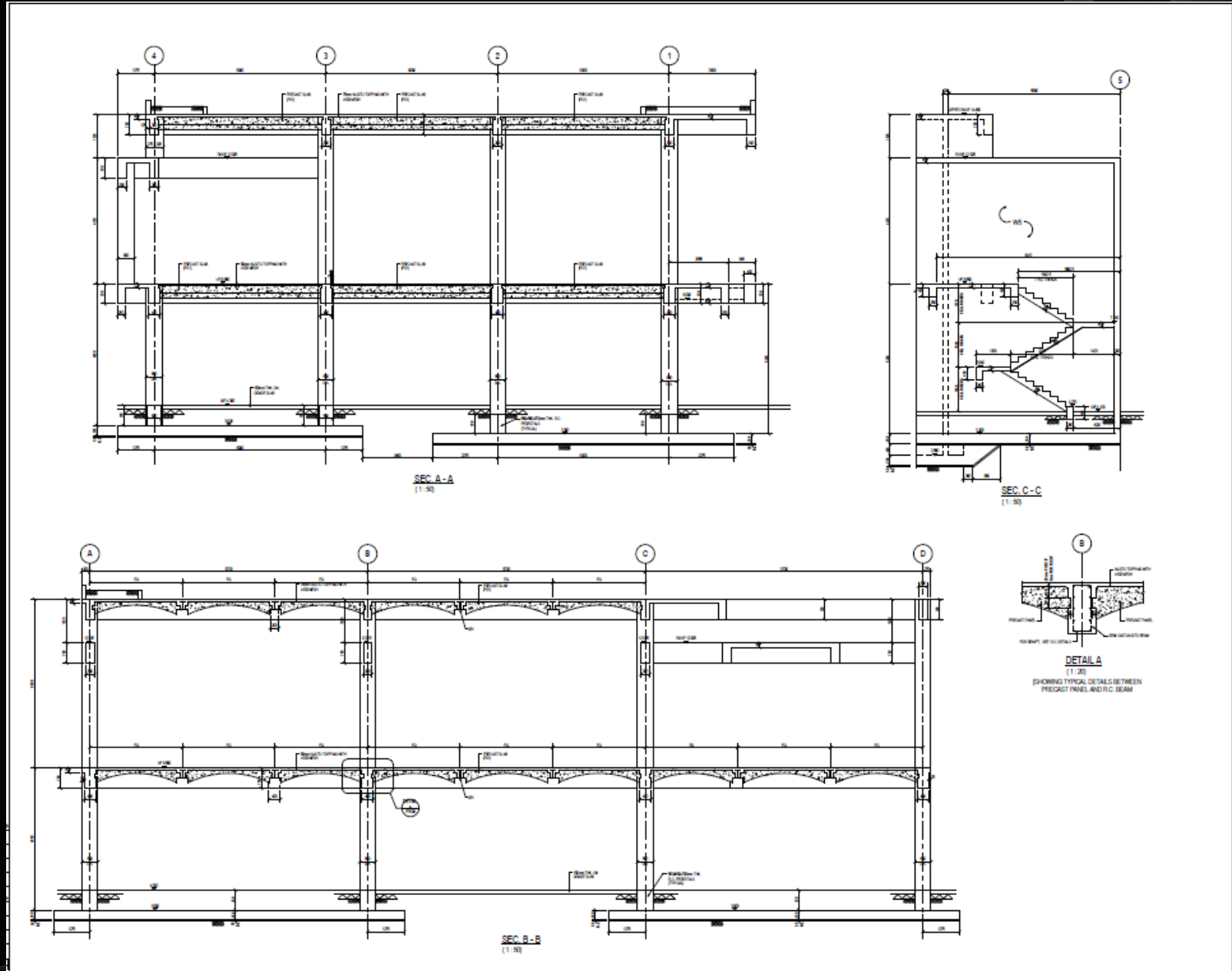
TYPICAL DETAIL OF CONSTRUCTION JOINT
BETWEEN PRECAST SLAB PANEL (1:10)

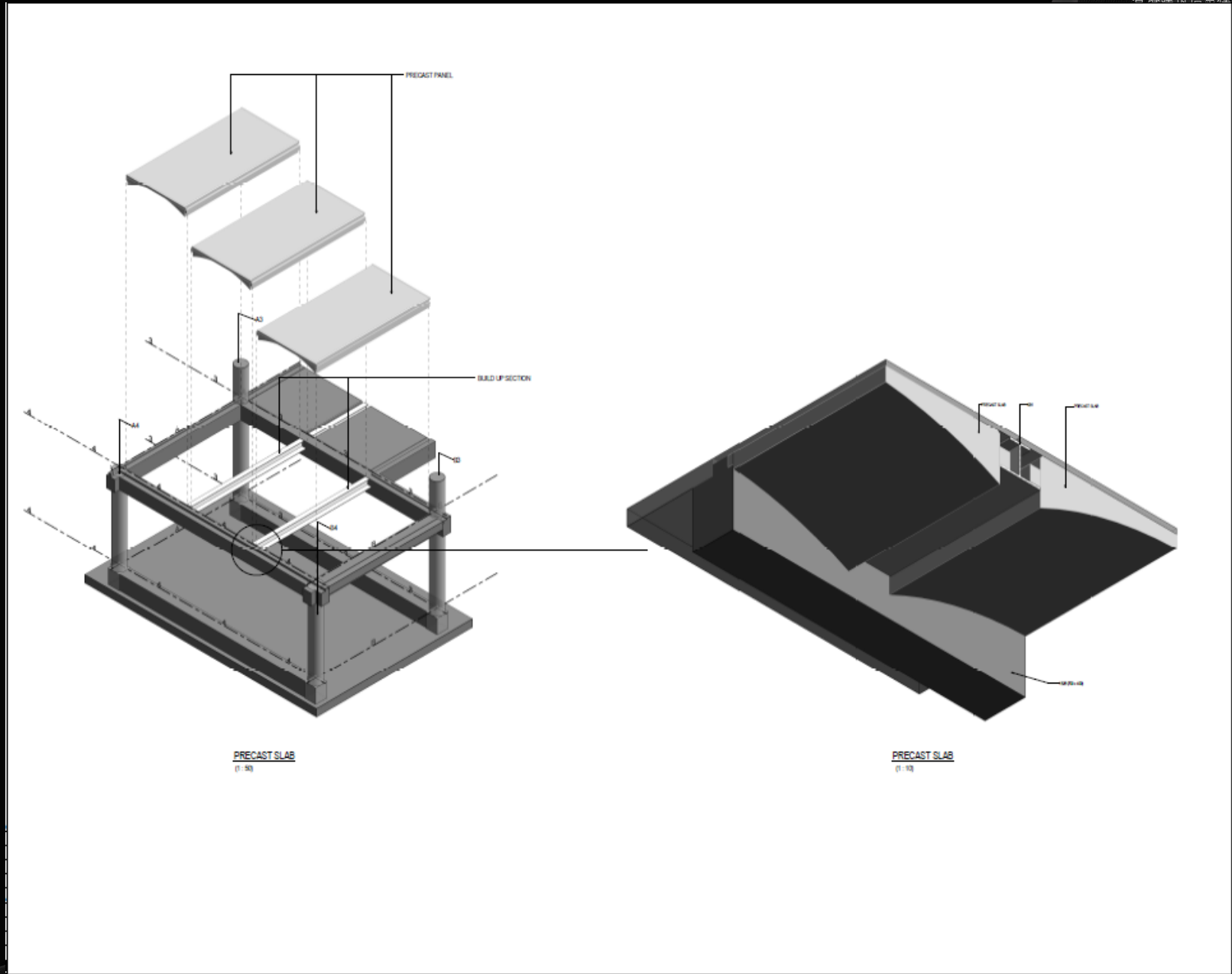


SEC. 6-6 (1:10)
(SHOWING TYPICAL CONNECTION
DETAILS BETWEEN SBM & R.C. BEAM)



SEC. 6A-6A
(1:10)





LEGEND

	LEVEL ON PLAN		WASH BASIN
	STRUCTURAL FLOOR LEVEL		URINAL
	FINISHED FLOOR LEVEL		SURFACE CHANNEL
	SMH		CLEANING EYE
	FMH		DRAIN OUTLET REFER TO ANTI-SYPHON & RESEALING TRAPS
	SMH		EXISTING STORM WATER MANHOLE
	FMH		EXISTING FOUL WATER MANHOLE
	T.G.		COVERED CHANNEL
	S.T.G.		VERTICAL GRATING
	F.D.		
	R.W.O.		
	WATER CLOSET		
	SINGLE SINK BOWL		

符号与说明

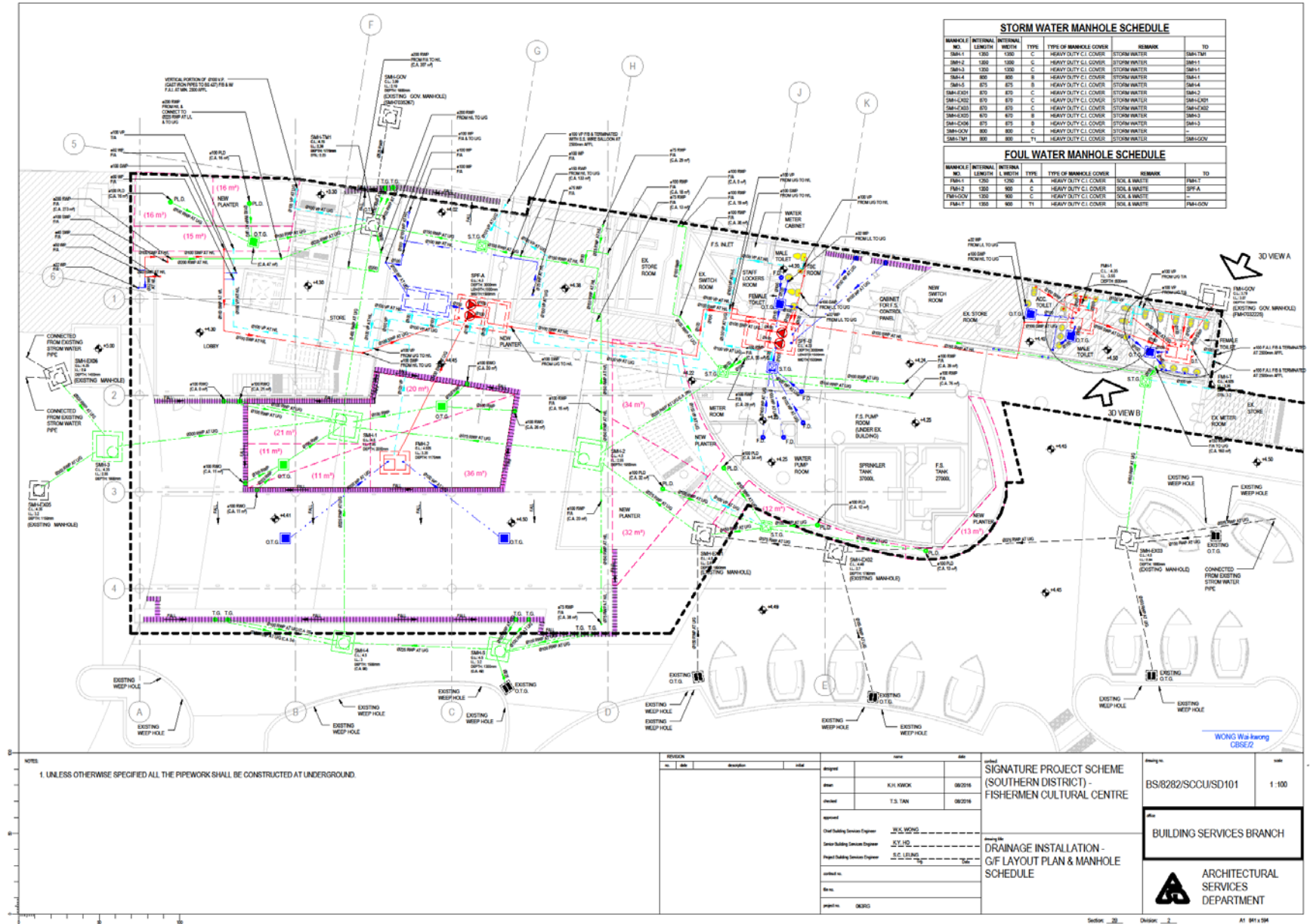
STORM WATER MANHOLE SCHEDULE

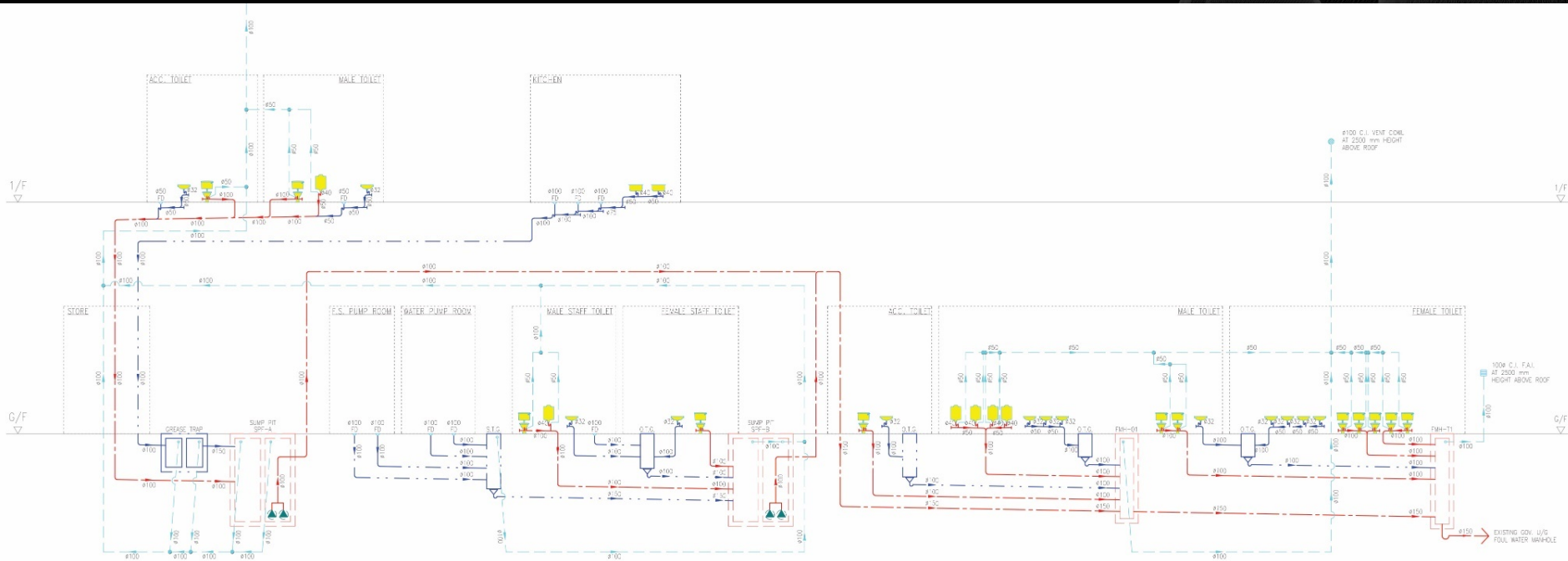
MANHOLE NO.	COVER LEVEL	INVERT LEVEL	DEPTH	INTERNAL LENGTH	INTERNAL WIDTH	TYPE	TYPE OF MANHOLE COVER	REMARK
SMH-1	4.50	2.45	2050	1350	1350	C	Heavy duty C.I. cover	Storm water
SMH-2	4.50	2.55	1950	1350	1350	C	Heavy duty C.I. cover	Storm water
SMH-3	4.35	2.55	1800	1350	1350	C	Heavy duty C.I. cover	Storm water
SMH-4	4.50	3.00	1500	800	800	B	Heavy duty C.I. cover	Storm water
SMH-5	4.50	3.20	1300	875	875	B	Heavy duty C.I. cover	Storm water
SMH-6	4.35	3.20	1150	670	670	B	Heavy duty C.I. cover	Storm water
SMH-7	4.35	2.90	1450	875	875	B	Heavy duty C.I. cover	Storm water
SMH-EX01	4.50	2.61	1890	870	870	C	Heavy duty C.I. cover	Storm water
SMH-EX02	4.48	2.70	1780	870	870	C	Heavy duty C.I. cover	Storm water
SMH-EX03	4.50	2.84	1660	870	870	C	Heavy duty C.I. cover	Storm water
SMH-EX04	4.50	2.94	1560	870	870	C	Heavy duty C.I. cover	Storm water
SMH-TM1	4.15	2.38	1770	800	800	C	Heavy duty C.I. cover	Storm water

FOUL WATER MANHOLE SCHEDULE

MANHOLE NO.	COVER LEVEL	INVERT LEVEL	DEPTH	INTERNAL LENGTH	INTERNAL WIDTH	TYPE	TYPE OF MANHOLE COVER	REMARK
FMH-T	4.525	3.35	1175	1350	900	C	Heavy duty C.I. cover	Soil & waste
FMH-1	4.35	3.55	800	1250	1250	A	Heavy duty C.I. cover	Soil & waste

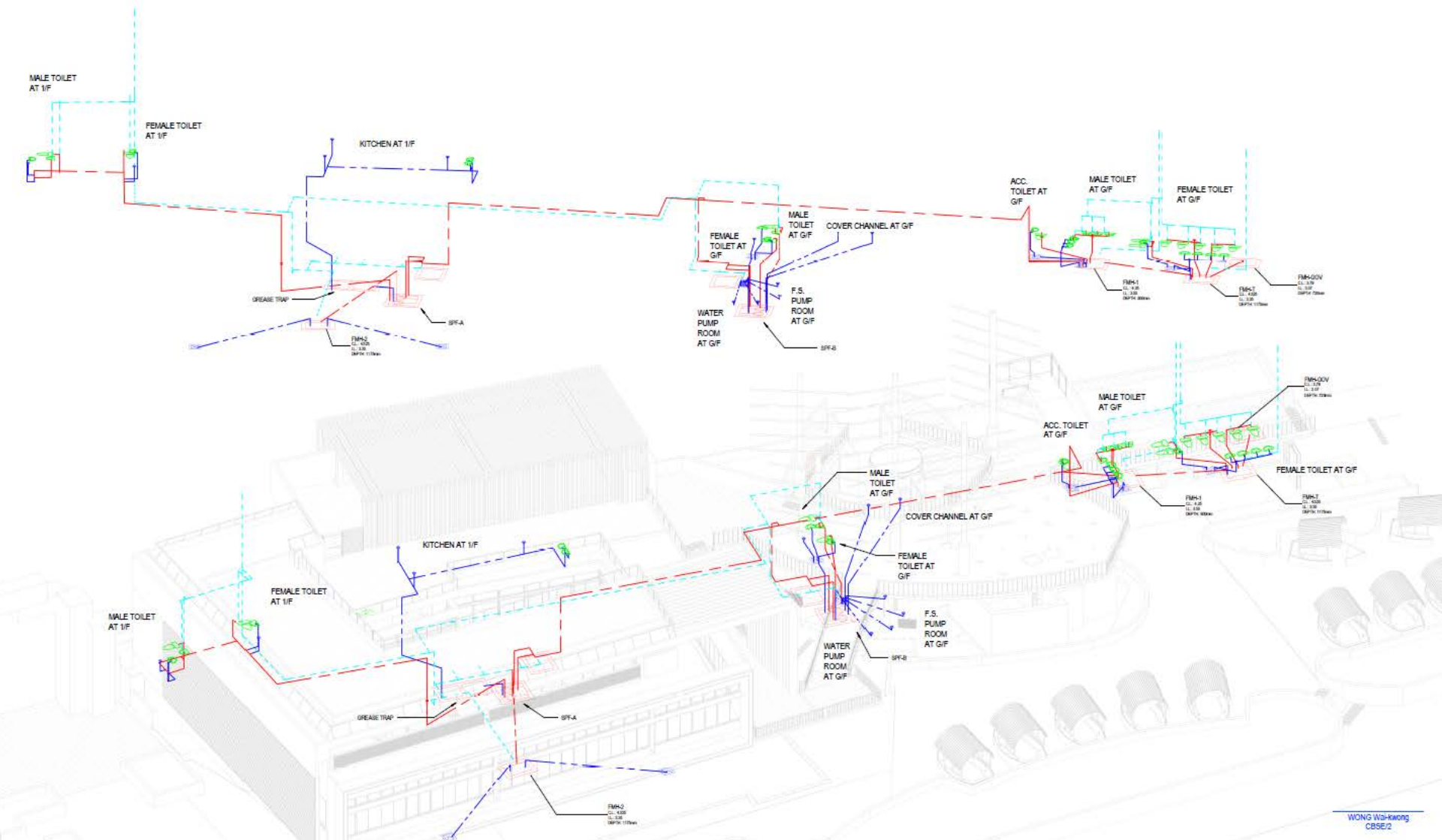
Automatic Scheduling 集水井自動計算

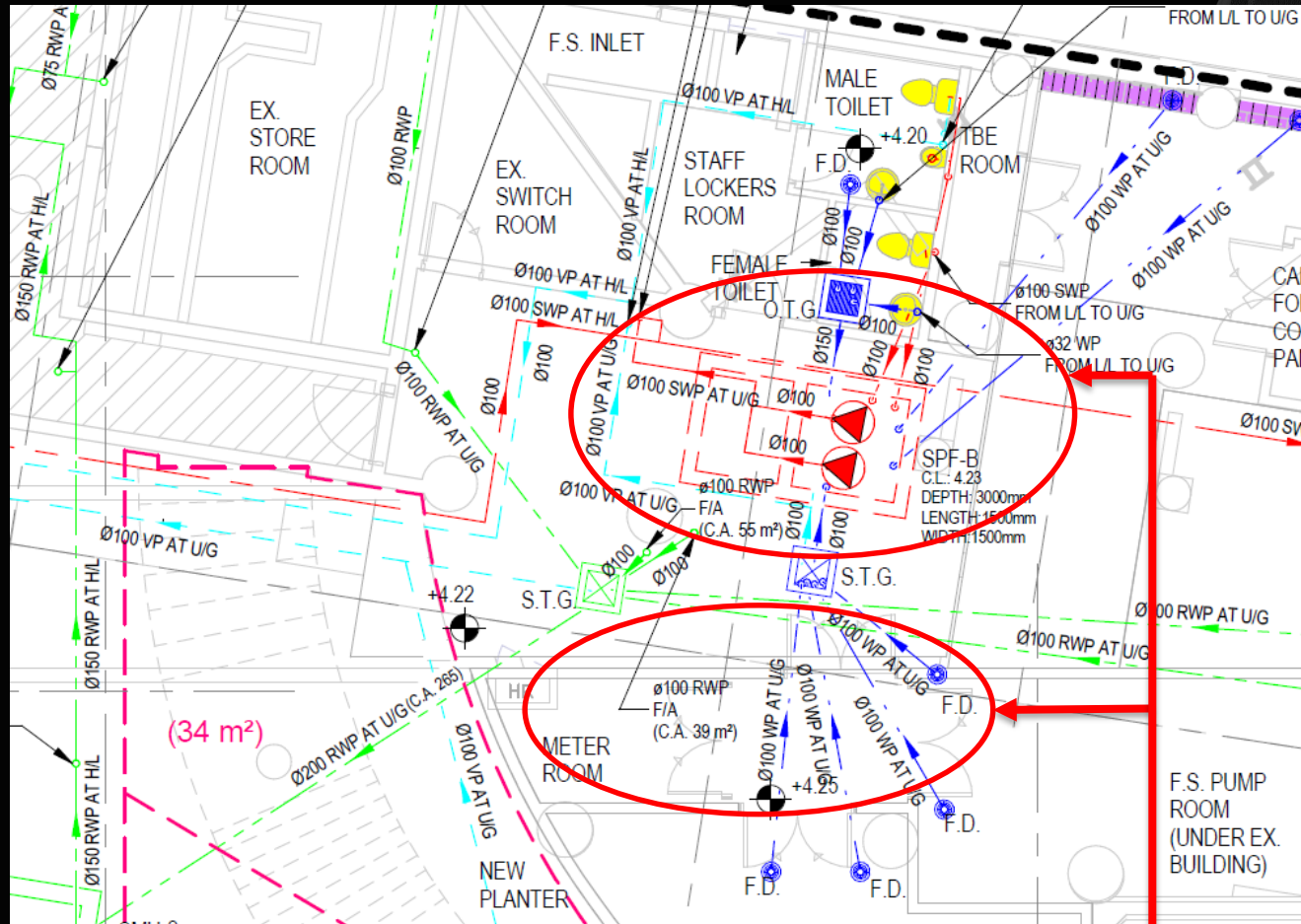




SCHEMATIC DIAGRAM OF FOUL WATER DRAINAGE SYSTEM

Schematic Diagram 系統示意图

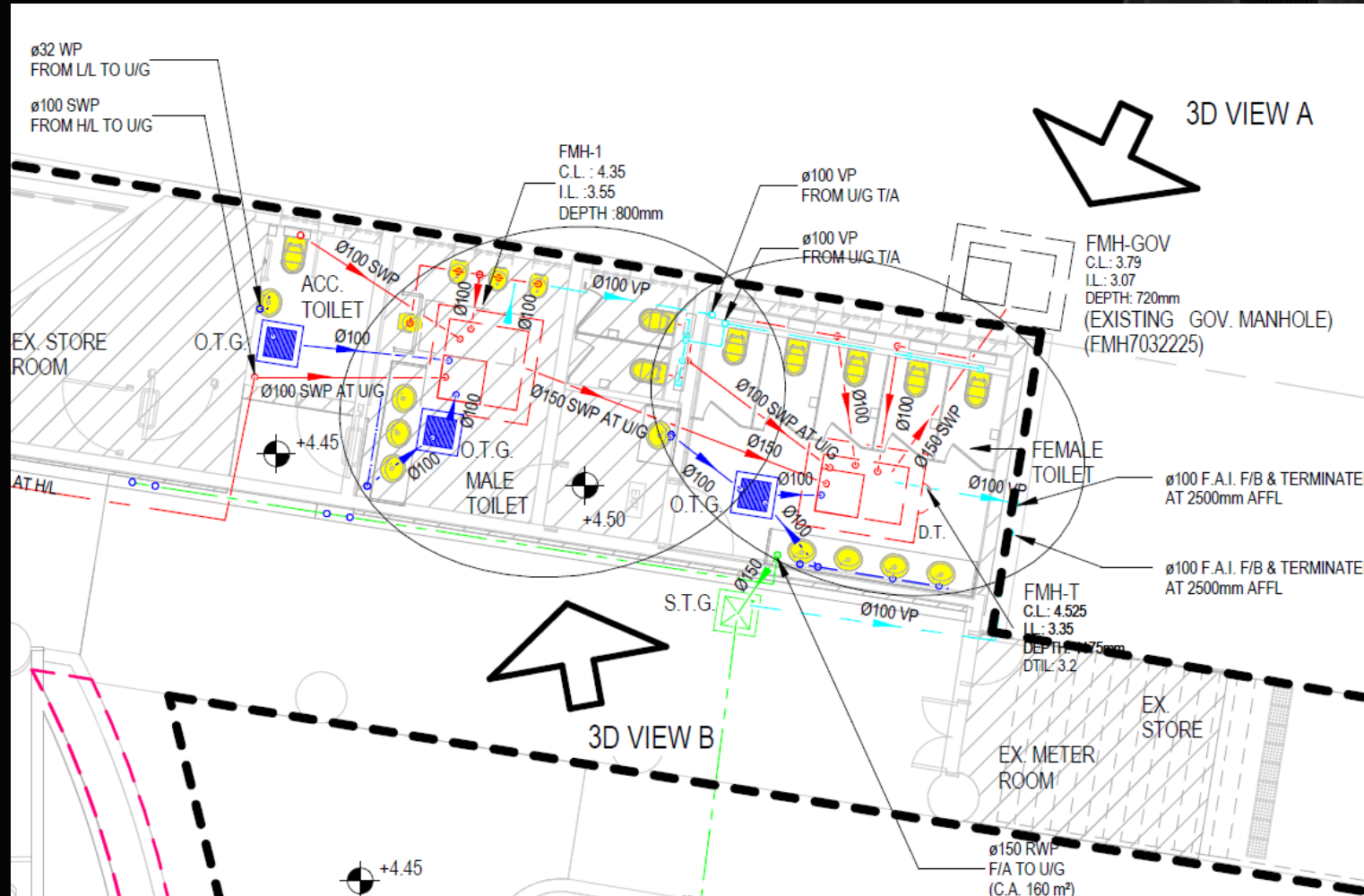




BI

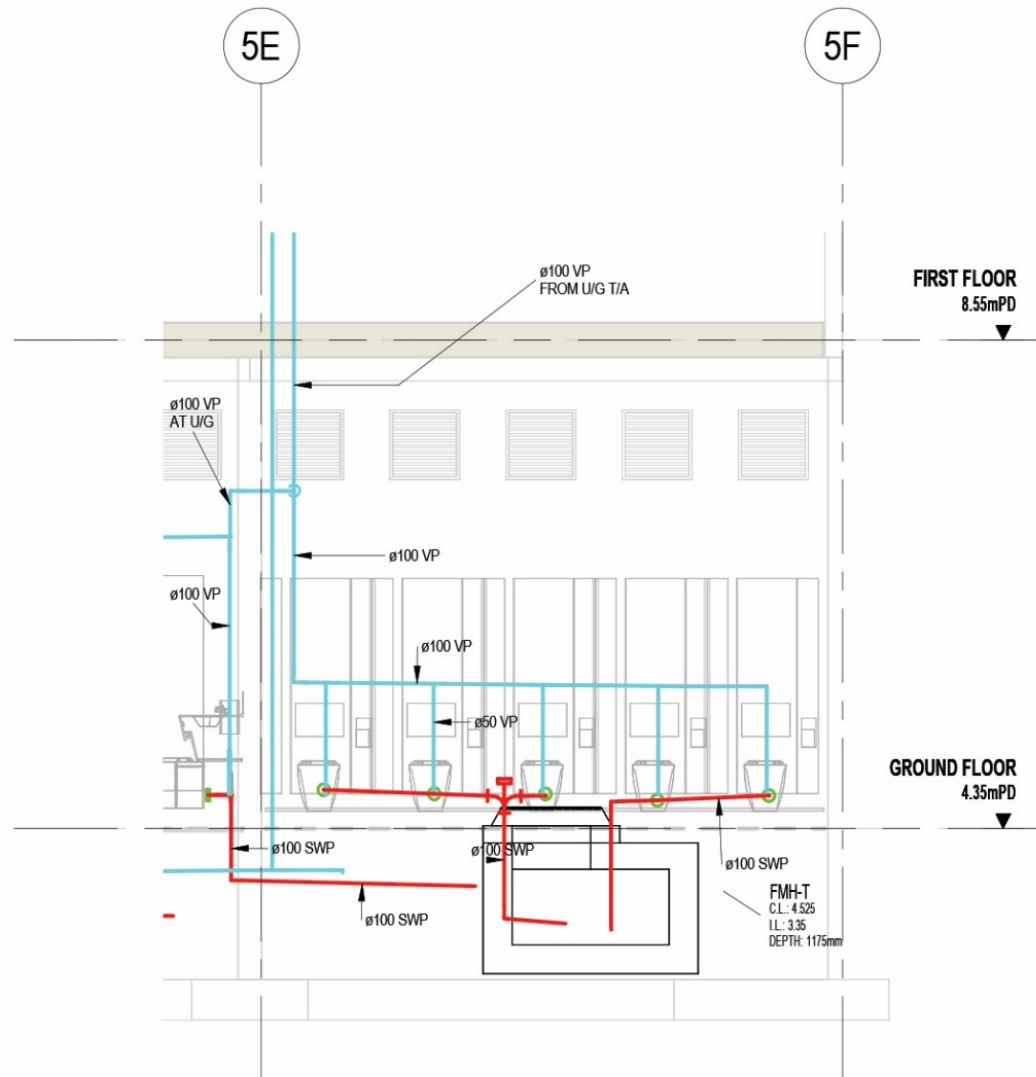
Drawing showing underground drainage symbols (Showing 2D symbols for 3D objects)

图纸展示了地下给排水符号
(在三維物件上展示二維符号)



Drawing showing difficultly, vertical stack pipes in toilet can hardly be illustrated.

图纸以图解说明展示了厕所中複雜，垂直的栈管

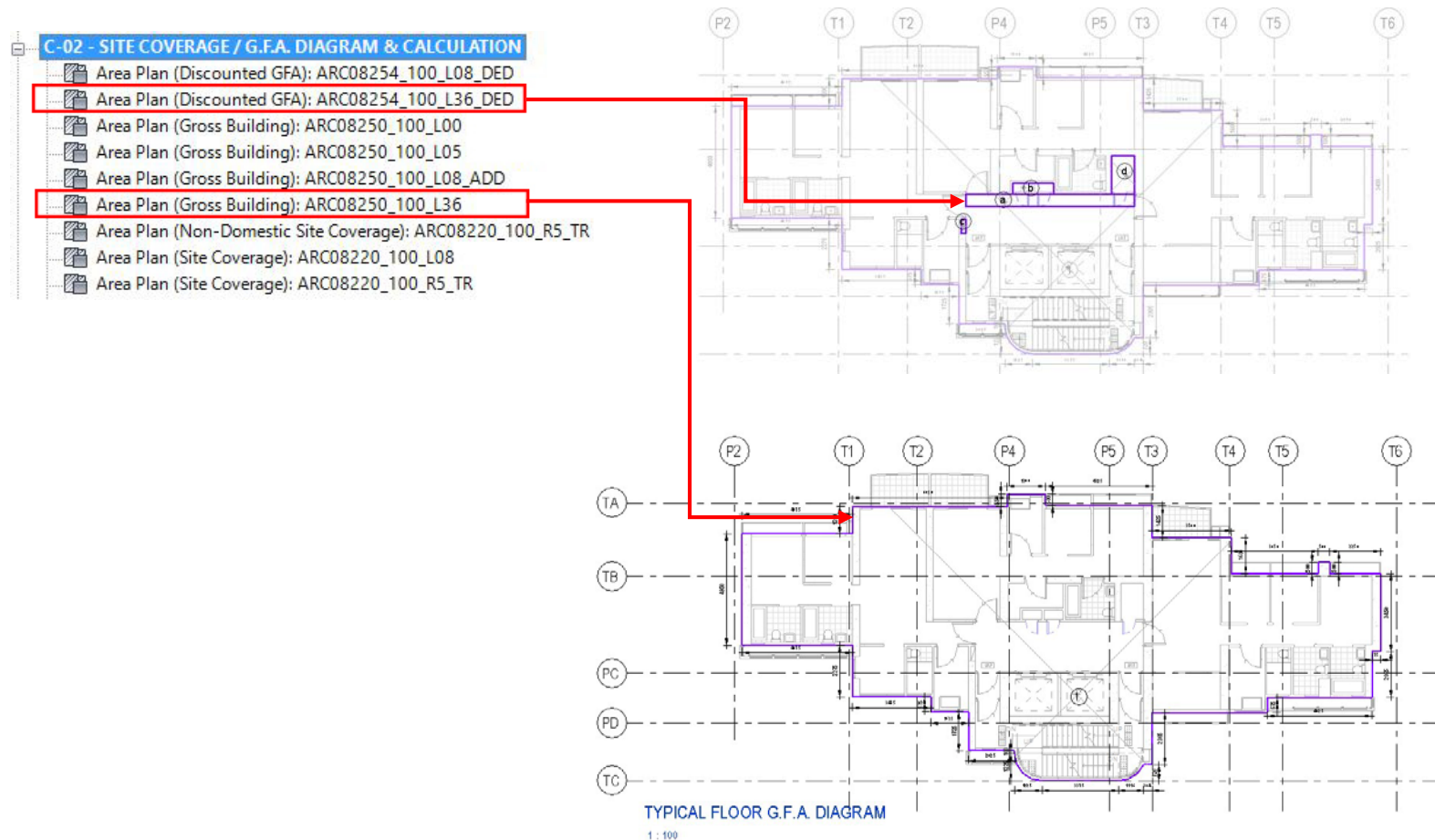


厕所面积的立面图

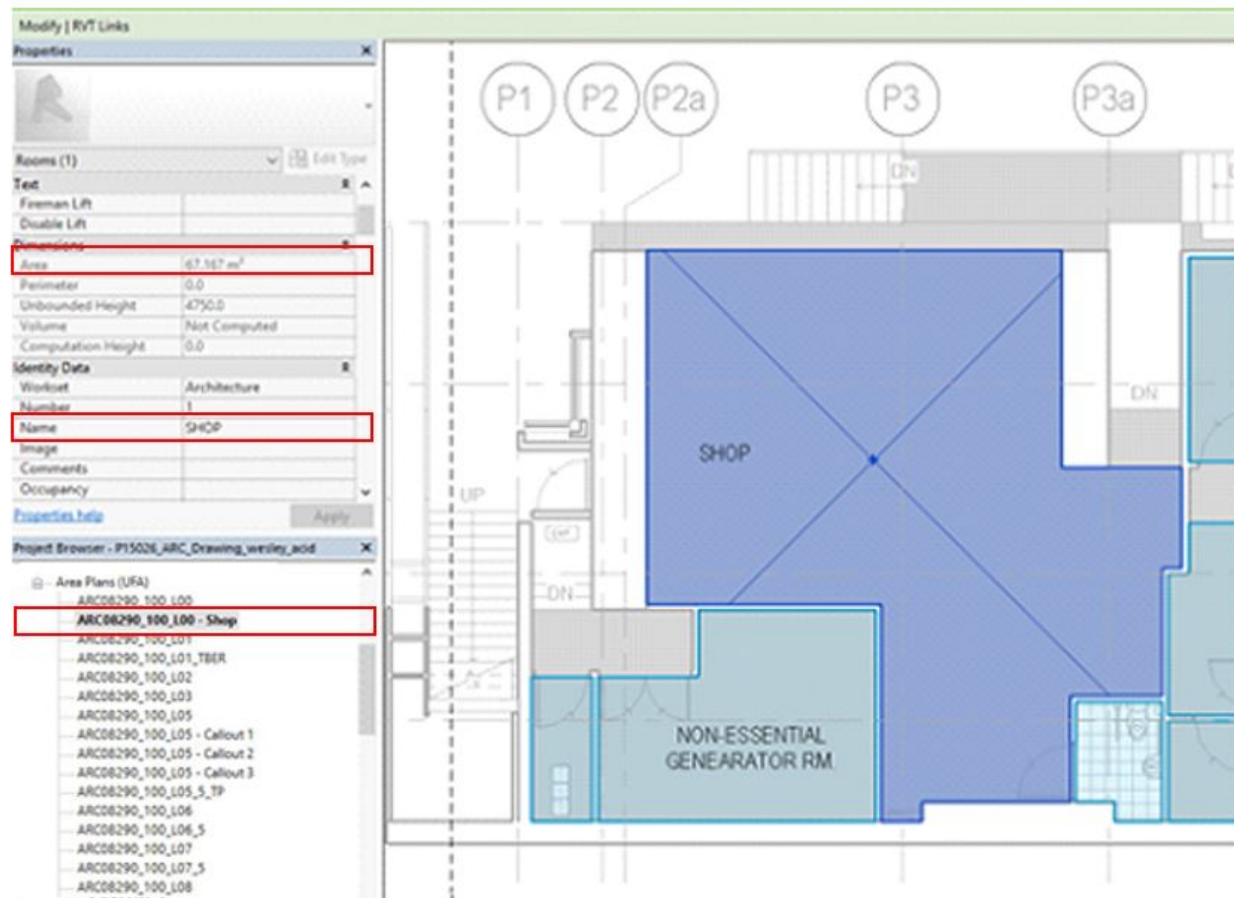


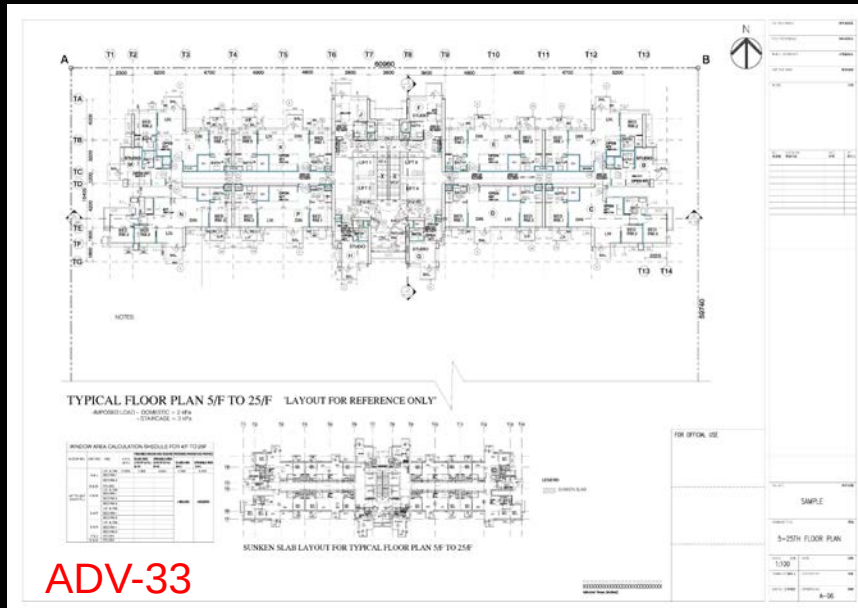
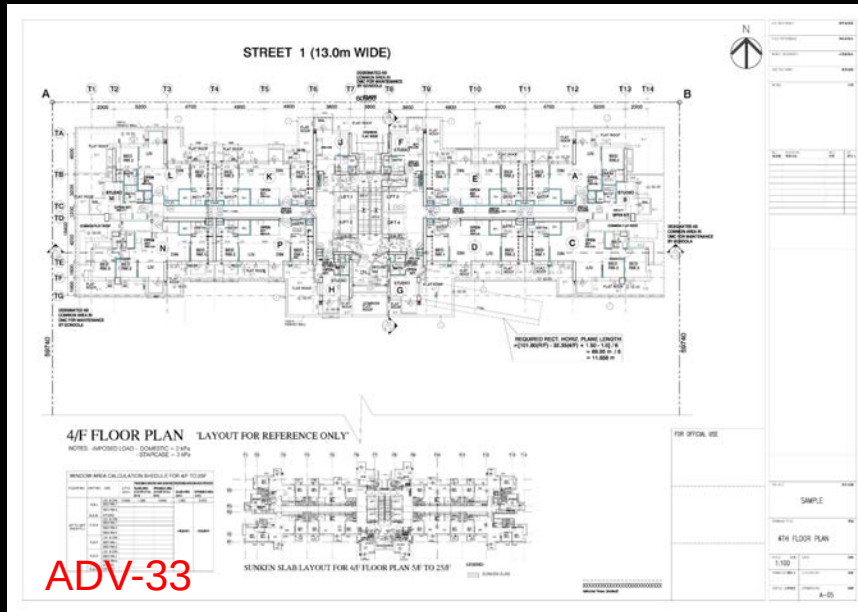
厕所范围的三維等距 - 令建筑的结构元素透明。清晰地展示给排水元素。

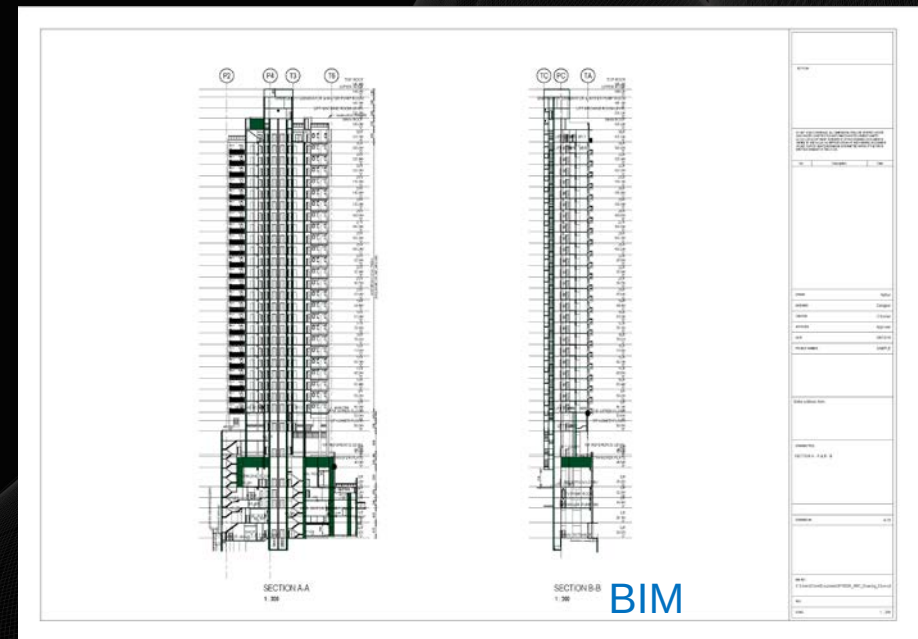
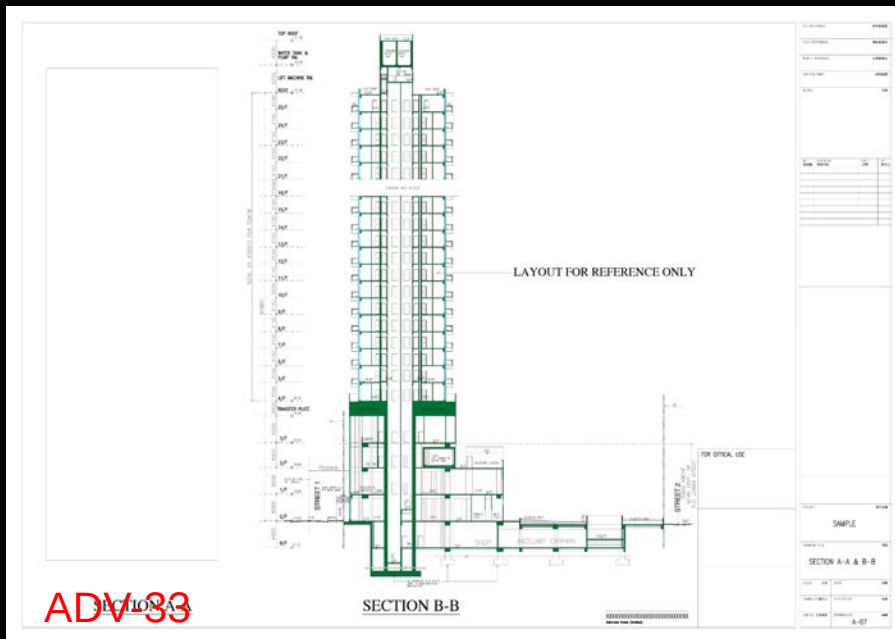
■ 屋宇署 (BD) – 私人建築 / 發展

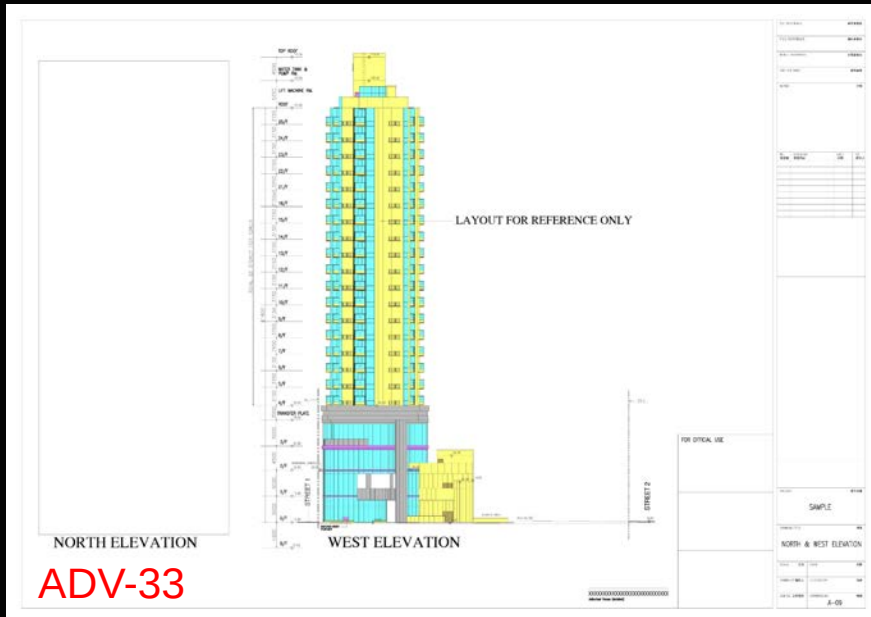


Room Tool Usable Floor Area (U.F.A.)









SITE COVERAGE & PLOT RATIO CALCULATION**(A) GENERAL:-**

SITE AREA (ACCOUNTABLE FOR P.R. & S.C.)	=
CLASS OF SITE	=
HEIGHT OF BUILDING	=
PERMITTED DOMESTIC SITE COVERAGE (OVER 61 m)	=
PROPOSED DOMESTIC SITE COVERAGE (OVER 61 m)	=
PERMITTED NON-DOMESTIC SITE COVERAGE (UNDER 15m)	=
PERMITTED NON-DOMESTIC SITE COVERAGE (OVER 61m)	=
PROPOSED NON-DOMESTIC SITE COVERAGE (OVER 61m)	=
PERMITTED NON-DOMESTIC PLOT RATIO (30%)	=
PERMITTED DOMESTIC PLOT RATIO (BPR)	=
PROPOSED PLOT RATIO (Q2P)	=
PROPOSED NO. OF UNITS	=
PROPOSED DOMESTIC G.F.A.	=
PROPOSED NON-DOMESTIC G.F.A.	=

(B) DOMESTIC G.F.A. CALCULATION:-

5/F To 25/F	=
4/F	=
3/F	=
1/F	=
GF	=
TOTAL	=

(C) ACTUAL TOTAL G.F.A. CALCULATION FOR DOMESTIC:-

--	--

(D) REMAINING NON-DOMESTIC G.F.A.:-

--	--

(E) NON-DOMESTIC G.F.A. CALCULATION:-

2/F	=
1/F	=
GF	=
BF	=
TOTAL	=

(F) ACTUAL PLOT RATIO FOR NON-DOMESTIC:-

--	--

(G) ACTUAL TOTAL PLOT RATIO:-

--	--

(H) DOMESTIC SITE COVERAGE CALCULATION (LARGEST FL):-

--	--

(J) NON-DOMESTIC SITE COVERAGE CALCULATION:-

--	--

(K) RECREATIONAL FACILITIES AREA CALCULATION:-

--	--

(L) REFUSE CHAMBER AREA CALCULATION:-

--	--

(M) OPEN SPACE PROVISION:-

--	--

BALCONY AREA CALCULATION

--	--

UTILITY PLATFORM AREA CALCULATION

--	--

LIFT SHAFT AREA DIAGRAM

--	--

EXEMPTED AREA CALCULATION FOR LIFT SHAFT

--	--

AREA DIAGRAM FOR REFUSE CHAMBER AREA CALCULATION FOR REFUSE CHAMBER

--	--

SITE COVERAGE & PLOT RATIO CALCULATION**(A) GENERAL:-**

SITE AREA (SCM)	738.46
BUILDING HEIGHT (M)	145
PERMITTED DOMESTIC SITE COVERAGE	60
PERMITTED DOMESTIC SITE COVERAGE	30.33
PERMITTED NON-DOMESTIC SITE COVERAGE	15
PERMITTED DOMESTIC P.R.	0.182

(D) REMAINING NON-DOMESTIC G.F.A.:-**(F) ACTUAL PLOT RATIO FOR NON-DOMESTIC:-**

ACTUAL NON-DOMESTIC G.F.A. (SQ.M)	138.813
ACTUAL NON-DOMESTIC P.R.	138.813/1000.46
	0.182

(G) ACTUAL TOTAL PLOT RATIO:-

REMAINING DOMESTIC P.R.	(15.6-18.24%)
ACTUAL DOMESTIC G.F.A. (SQ.M)	738.46
ACTUAL DOMESTIC P.R.	738.46/1000.46
	0.738

(H) DOMESTIC SITE COVERAGE CALCULATION:-

ACTUAL DOMESTIC SITE COVERAGE OVER 15M (SQ.M)	234.197/30.33
ACTUAL DOMESTIC SITE COVERAGE (%)	31.98-33.33

(J) NON-DOMESTIC SITE COVERAGE CALCULATION:-

ACTUAL NON-DOMESTIC SITE COVERAGE OVER 15M (SQ.M)	308.823
ACTUAL NON-DOMESTIC SITE COVERAGE (%)	308.823/1000.46
	30.88%

(C) ACTUAL TOTAL G.F.A. CALCULATION FOR DOMESTIC:-

DOMESTIC ACCOMMODATION	5401.988
OVERALL DOMESTIC G.F.A. (SQ.M)	5401.988
OVERALL NON-DOMESTIC G.F.A. (SQ.M)	138.813
OVERALL TOTAL G.F.A. (SQ.M)	5540.801

DOMESTIC LIFT SHAFT AREA (SQ.M)	710.426
MINIMUM EXEMPTED G.F.A. (SQ.M)	196.308

ACTUAL EXEMPTED G.F.A. (SQ.M)	214.429
ACTUAL DOMESTIC G.F.A. (SQ.M)	5401.988
	5516.417

(B) DOMESTIC G.F.A. CALCULATION

ID	NAME	AREA (SQ.M)	STOREY	TOTAL AREA (SQ.M)
1	FLOOR AREA	238.893	24	5432.352
2	WALLS & PARTIAL	76.051	1	76.051
3	FLOOR AREA	209.933	1	209.933
				5718.336

UNDER OUTLINE ZONING PLAN

ZONE	470N
PROPOSED USE	RESIDENTIAL & SHOP ON G/F (ALWAYS PERMITTED)
PERMISSIBLE BUILDING HEIGHT	<150M
PROPOSED BUILDING HEIGHT	<150.2M (P) <150M (D)

(K) RECREATIONAL FACILITIES AREA CALCULATION

ID	NAME	AREA (SQ.M)
1	RECREATIONAL FACILITIES FLOOR AREA	276.88

(N) BALCONY AREA CALCULATION

4.802 x 10.111 = 48.571 sq.m (2.21 m)		
48.571 IS THE GREATER		
GREEN BALCONY AREA CALCULATION (UNIT A)		
Number	Name	Area
AB	BAL	1.996 sq.m
		<0.008 sq.m
3.082 x 10.111 = 31.171 sq.m (2.21 m)		
31.171 IS THE GREATER		
GREEN BALCONY AREA CALCULATION (UNIT B)		
Number	Name	Area
BB	BAL	1.997 sq.m
		<0.008 sq.m

4.802 x 10.111 = 48.571 sq.m (2.21 m)
 WHICHEVER IS THE GREATER

GREEN BALCONY AREA CALCULATION (UNIT C)		
Number	Name	Area
CB	BAL	1.998 sq.m
		<0.008 sq.m

SCHEDULE OF UFA & UFS UNIT A (FOR 36F) EXEMPTED AREA (BALCONY)		
Number	Name	Area
AB	BAL	2.464 m ²

SCHEDULE OF UFA & UFS UNIT B (FOR 34F) EXEMPTED AREA (BALCONY)		
Number	Name	Area
BB	BAL	2.497 m ²

(O) UTILITY PLATFORM AREA CALCULATION

TOTAL UTILITY PLATFORM & GREEN BALCONY AREA (UNIT A)		
Number	Name	Area
AB	BAL.	1.996 m

AJ	UTIL	1.496 m
TOTAL		3.496 m
TOTAL UTILITY PLATFORM & GREEN BALCONY AREA (UNIT B)		
Number	Name	Area

NO.	NAME	AREA
CB	BAL.	1.997 m
CL	LIFT	1.500 m
TOTAL		3.497 m

TOTAL UTILITY PLATFORM & GREEN BALCONY		
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AREA (UNIT G)		
Number	Name	Area
OU	UTIL	1.500 m
OB	BAL	1.996 m
TOTAL		3.496

SCHEDULE OF LIFT & LIFT SHAFT (FOR 30%) EXEMPTED AREA (UTILITY PLATFORM)		
Number	Name	Area
BB	LIFT	1.997 sq.m

SCHEDULE OF UFA & UFS UNIT B (FOR 26F) EXEMPTED AREA (UTILITY PLATFORM)		
Number	Name	Area
BU	UTIL	1.560 m

EXEMPTED U.P. AREA CALCULATION UNDER JPN2 (UNIT A)		
Number	Name	Area
AJ	UTIL	1.499

EXEMPTED U.P. AREA CALCULATION UNDER JPNG (UNIT B)		
Number	Name	Area

DL	LIFT	1.500 m
----	------	---------

EXEMPTED U.P. AREA CALCULATION UNDER JPN2 (UNIT C)		
---	--	--

Number	Name	Area
OU	UTIL	1.500 m

(Q) EXEMPTED AREA CALCU

LIFT SHAFT SCHEDULE		
AREA (SQ M)	STOREYS	TOTAL AREA (SQ M)
4.048	02	8.096

4.045	25	106.21
4.045	25	106.21
		212.42

(R) AREA DIAGRAM FOR REF
AREA CALCULATION FOR REF

REFUSE STORAGE & MATERIAL R	
Number	N

R	REFUSE STORAGE MAT
---	--------------------

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT K)		
Number	Name	Area
KL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT L)		
Number	Name	Area
LL	LIFT	1.496 sq.m

REFUSE AREA DIAGRA
1 : 100

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT N)		
Number	Name	Area
NL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT O)		
Number	Name	Area
OL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT P)		
Number	Name	Area
PL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT Q)		
Number	Name	Area
QL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT R)		
Number	Name	Area
RL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT S)		
Number	Name	Area
SL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT T)		
Number	Name	Area
TL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT U)		
Number	Name	Area
UL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT V)		
Number	Name	Area
VL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT W)		
Number	Name	Area
WL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT X)		
Number	Name	Area
XL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT Y)		
Number	Name	Area
YL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT Z)		
Number	Name	Area
ZL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AA)		
Number	Name	Area
AL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AB)		
Number	Name	Area
BL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AC)		
Number	Name	Area
CL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AD)		
Number	Name	Area
DL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AE)		
Number	Name	Area
EL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AF)		
Number	Name	Area
FL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AG)		
Number	Name	Area
GL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AH)		
Number	Name	Area
HL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AI)		
Number	Name	Area
IL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AJ)		
Number	Name	Area
JO	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AK)		
Number	Name	Area
KL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AL)		
Number	Name	Area
LL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AM)		
Number	Name	Area
ML	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AN)		
Number	Name	Area
NL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AO)		
Number	Name	Area
OL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AP)		
Number	Name	Area
PL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AQ)		
Number	Name	Area
QL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AR)		
Number	Name	Area
RL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AS)		
Number	Name	Area
SL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AT)		
Number	Name	Area
TL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AU)		
Number	Name	Area
UL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AV)		
Number	Name	Area
VL	LIFT	1.496 sq.m

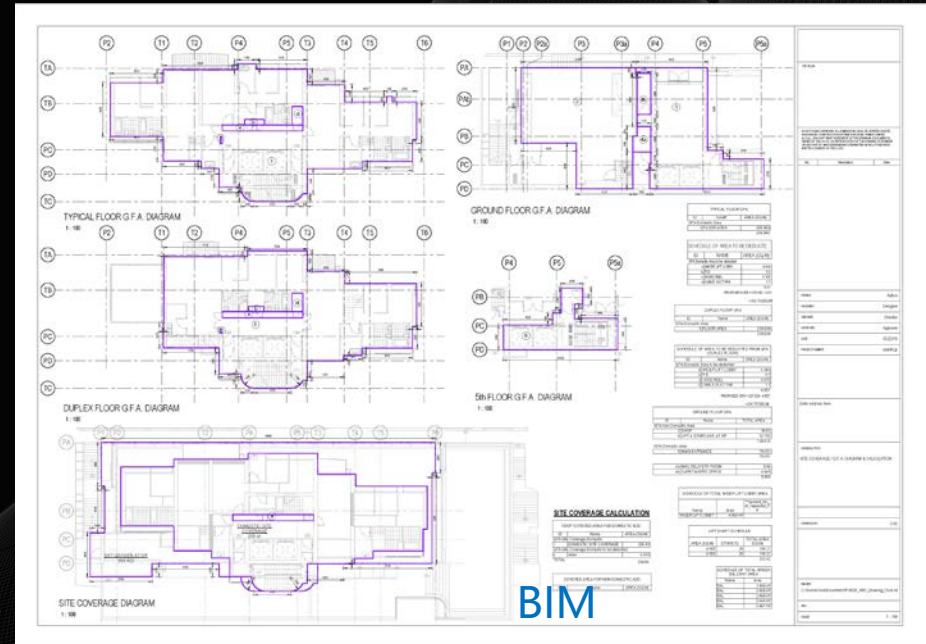
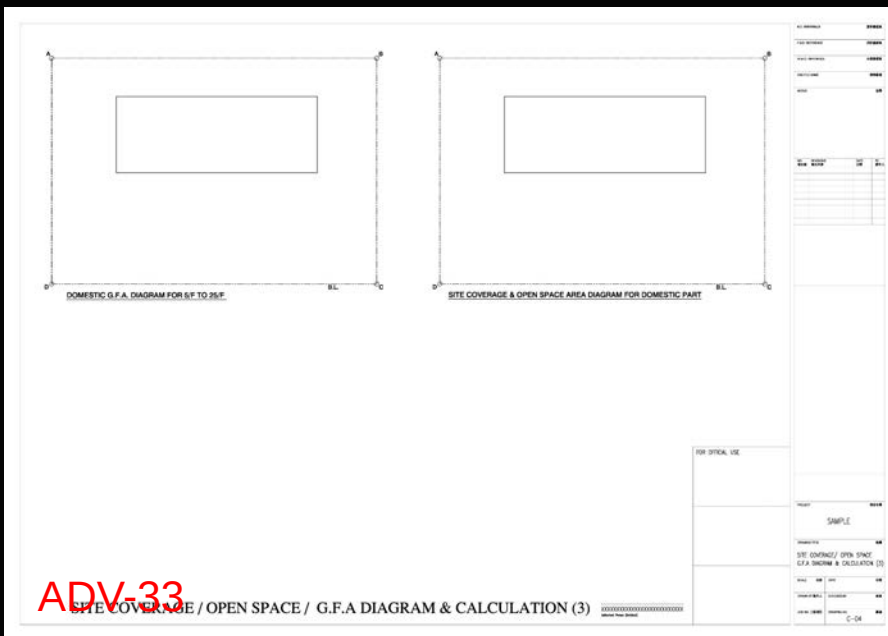
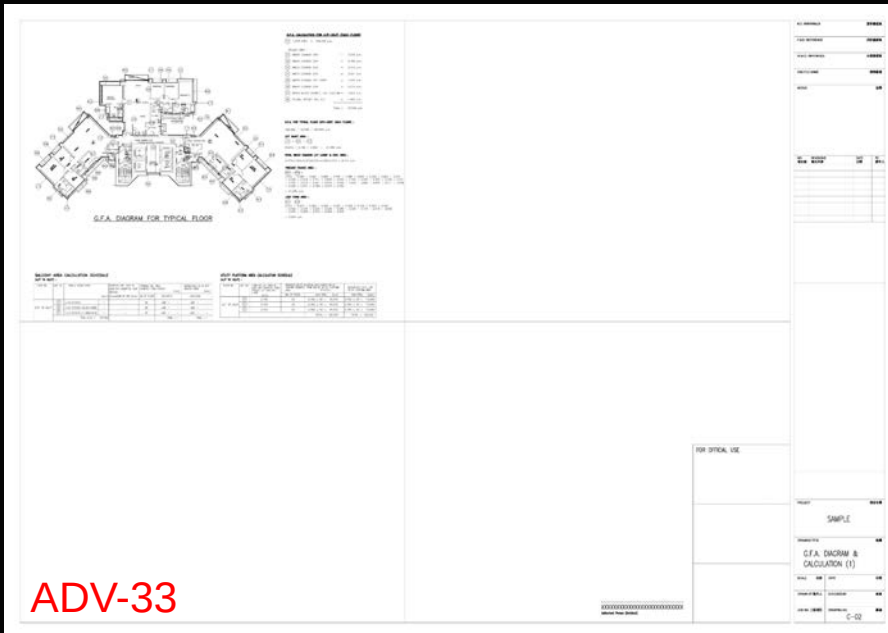
EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AW)		
Number	Name	Area
WL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AX)		
Number	Name	Area
XL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AY)		
Number	Name	Area
YL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT AZ)		
Number	Name	Area
ZL	LIFT	1.496 sq.m

EXEMPTED U.P. AREA CALCULATION UNDER (UNIT BA)
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COMPARTMENT DIAGRAM



ADV-33



屋宇署 (BD)
| ADV 34 BIM 輔助審批文件

BIM 模型輔助審批文件

視頻輔助審批文件

Appendix A
(PNAP ADV-34)

Examples of application of BIM to supplement Plan Submissions

建築設計

排水設計

結構設計

樁基礎設計

土方設計

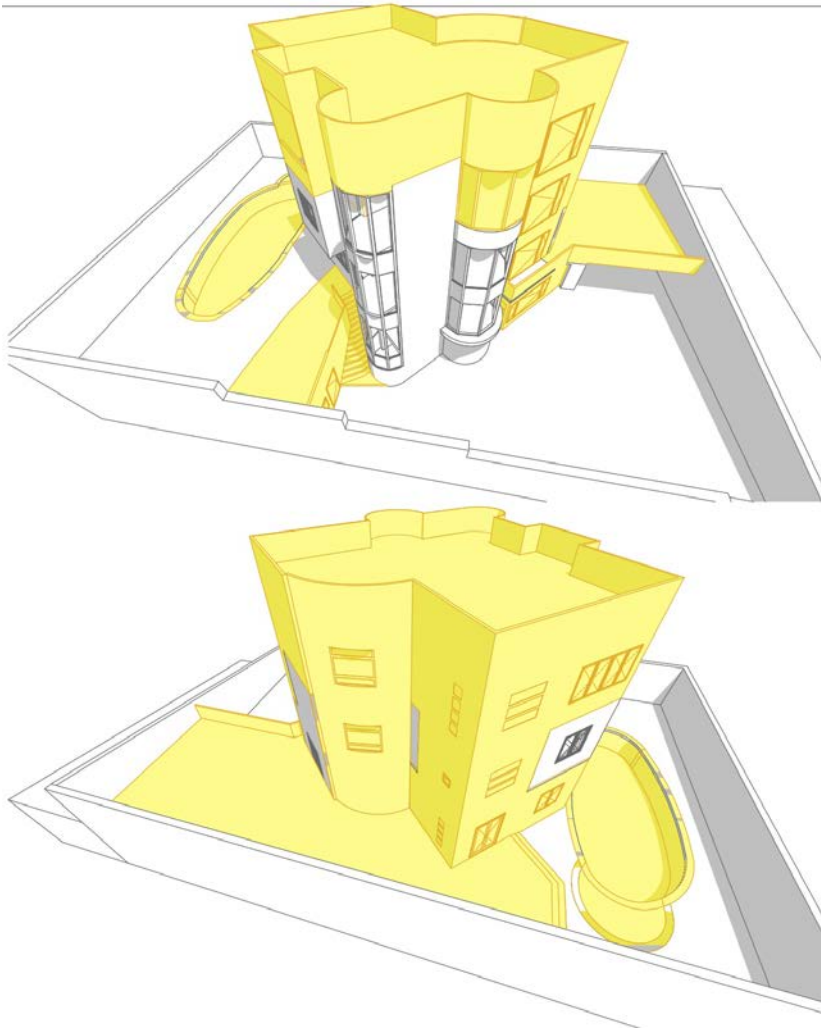
基地平整

清拆

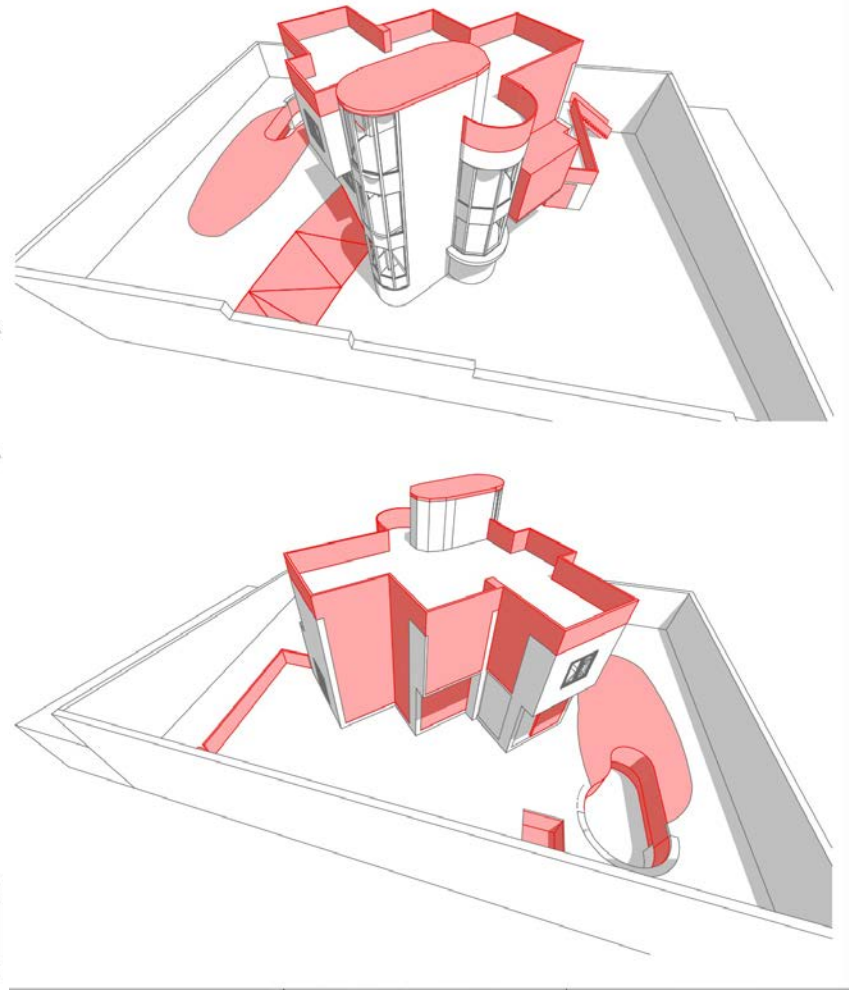
Types of Plan Submission	Examples of Building Information to be illustrated by BIM	
	Building Information Model	Real-time Simulation
General Building Plans	- innovative building design, irregular/twisted building form; - projecting features on external wall; - relationship between site profiles/street levels and proposed building; - arrangement of means of escape and compartmentation; - spatial arrangement of building; - relationship between existing building and proposed alteration and addition (A&A) works.	- sequence and phasing of various stages^{Notes} of new building development; - sequence and phasing of A&A works.
Drainage Plans	- complex drainage systems and/or connections - relationship between proposed underground drainage works and foundation works/site formation works etc.	- sequence and phasing of various stages^{Notes} of new building development; - sequence and phasing of A&A works.
Superstructure Plans	- complex steel structures and/or connections; - arrangement of transfer structures and illustration of load path; - basement structures supporting adjoining ground and/or existing geotechnical features; - assembly sequence, structural arrangement and/or connection of façade/glass wall/curtain wall/cladding works, etc.; - relationship between existing structures and proposed A&A works; - working space, temporary supports and strengthening in A&A works.	- sequence and phasing of various stages^{Notes} of new building development; - sequence and phasing of A&A works.
Foundation Plans	relationship between proposed foundations, sub-structures, E&LS works and geological ground profiles, adjoining existing foundations, geotechnical features, sensitive structures, etc.	- sequence and phasing of various stages^{Notes} of new building development; - top-down construction.
Excavation and Lateral Support (E&LS) Plans		
Site Formation Plans	relationship between site profiles, geological ground profiles and proposed works.	sequence and phasing of various stages^{Notes} of new building development.
Demolition Plans	final stage of partial demolished structures.	sequence and phasing of works, method statements and temporary precautionary measures.

Notes : Relevant stages of new building development may include demolition, foundation, E&LS, site formation, sub-structure and superstructure construction, as the case may be.

非法僭建部分

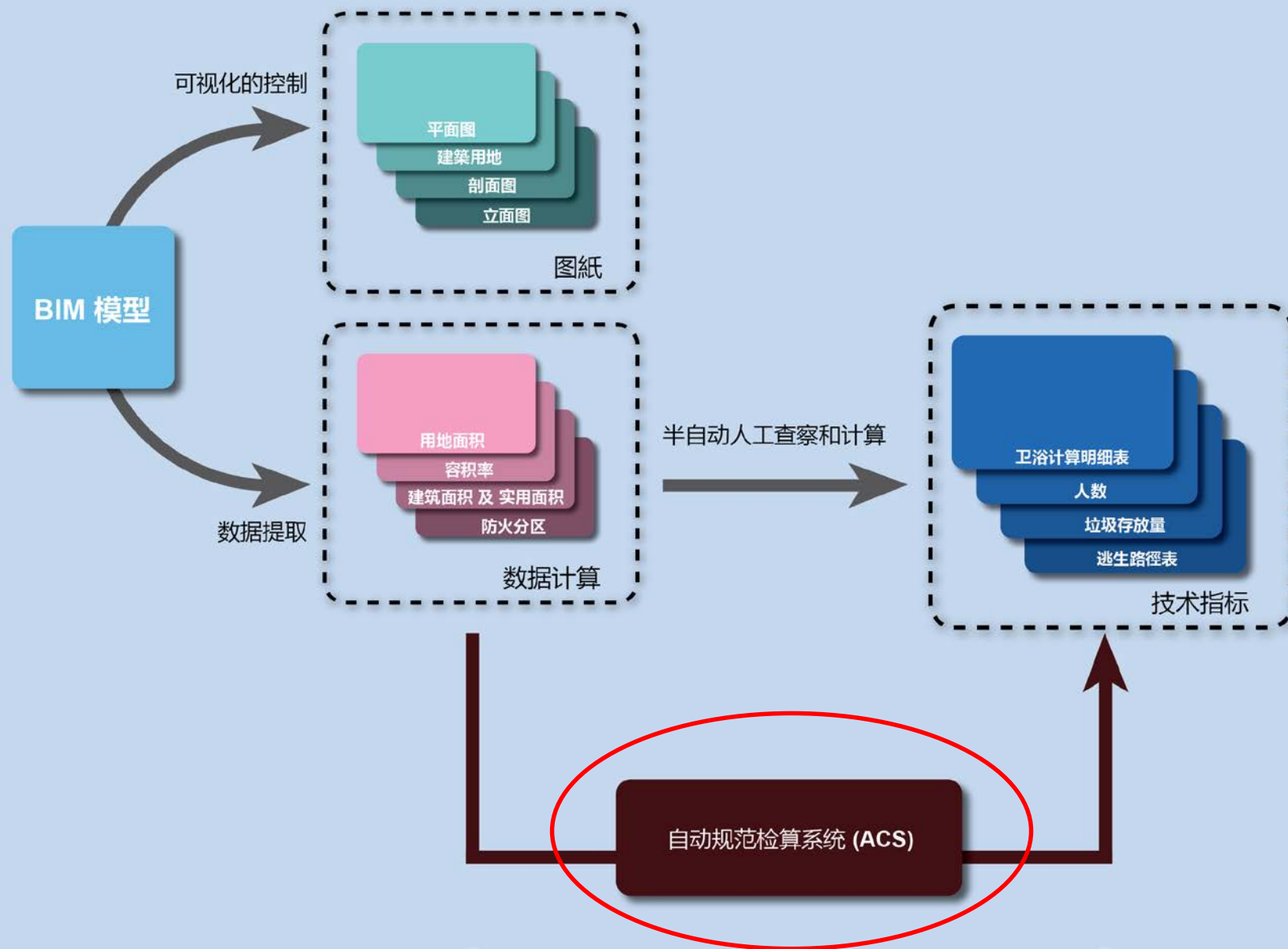


還完部分



Phasing diagrams – re-instatement works for unauthorized building structures according to removal order from BD

| ACS



IBIM



Autodesk Revit 2017 - 查看器模式 - ACSC Sample Project Calculation Completed - 图纸: A101 - 项目总结

建筑 结构 系统 插入 注释 分析 体量与场地 协作 视图 管理 附加模块 修改

修改 外部 工具 Glue Clash Pinpoint Properties Convert RFA to Formit 360 About Formit 360 Formit 360 Converter

属性: 图纸 Sheet

图纸: 项目总结 编辑类型

图形 可见性/图形... 编辑... 比例 1:500

标识数据 相关性 不相关

参照图例 参照图例 发布的当前... 当前修订发... 当前修订发... 当前修订日期 当前修订说明 当前修订 审核者 Approver 设计者 Designer 审图员 Checker 绘图员 Author 属性帮助 应用

项目浏览器 - ACSC Sample Project ...

- 面积平面 (用地面积)
- 面积平面 (绿化面积)
- 面积平面 (覆盖面积)
- 面积平面 (防火分区)
- 图例
- 明细表/数据
 - Door Sched
 - Room Sched
 - Window Schedule
 - 使用面积列表
 - 建筑面积分层总结
 - 建筑面积列表
 - 洁具列表
 - 疏散要求列表
 - 绿化面积列表
 - 防火分区列表
- 图纸 (all)
 - A101 - 项目总结
 - A103 - 使用面积示意图
 - A104 - 建筑面积示意图
 - A105 - 防火分区示意图
- 族
- 组

用地面积 46651.54平方米

总地上建筑面积 53864.75平方米

其中 商业 34975.05平方米 X (35075.05)

机电 6387.83平方米

办公室 11721.87平方米

容积率 1.14

覆盖面积 16655.56平方米

覆盖率 35.7%

绿化面积 3513.17平方米

绿化率 7.53%

建筑面积分层总结

用途	建筑面积分层总结	审查
1层		
办公室	2688.130	
商业	12506.500	X (12606.5)
机电	1442.740	
2层		
办公室	3827.810	
商业	9052.960	
机电	1292.770	
3层		
商业	13415.590	
4层		
办公室	5195.930	
机电	3982.350	

建筑面积列表

ID	用途	建筑面积	数量	相乘面积	审查
1层					
1	商业	4041.5	1	4041.5	X (4141.5)
2	机电	77.48	1	77.48	
3	机电	78.61	1	78.61	
4	商业	338.2	1	338.2	
5	办公室	1435.35	1	1435.35	
6	商业	4203.17	1	4203.17	
7	商业	650.81	1	650.81	
8	办公室	1262.78	1	1262.78	
9	商业	47.58	1	47.58	
10	商业	352.05	1	352.05	
11	商业	61.16	1	61.16	
12	商业	20.09	1	20.09	
13	机电	956.62	1	956.62	
14	商业	1050.54	1	1050.54	
15	商业	64.08	1	64.08	
16	商业	1677.32	1	1677.32	
2层					
21	办公室	2184.46	1	2184.46	
22	商业	8571.07	1	8571.07	
23	机电	1292.77	1	1292.77	
24	商业	481.89	1	481.89	

类似的技术也可应用到自动审批

单击可进行选择, 按 Tab 键并单击可选择其他项目; 按 Ctrl 键并单击可将新项目添加到选择集; 按 Shift 键并单击可取消选择。

主模型



BIM图纸在报建及审批

- 高效
- 准确
- 可靠
- BIM体现于规范检算的应用

■ 谢谢!