

# *Appendix 1*

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APPROVED GENERAL BUILDING PLANS



# GENERAL NOTES

1. STRUCTURAL PLANS, R.C.C. DETAILS AND CALCULATIONS ARE TO BE SUBMITTED SEPARATELY.
2. DRAINAGE PLANS ARE TO BE SUBMITTED SEPARATELY.
3. ALL DIMENSIONS ARE TO BE INDICATED IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
4. FLAT ROOFS/TERRACES ACCESSIBLE TO THE PUBLIC SHALL BE PROVIDED WITH PARAPET WALLS /RAILINGS NOT LESS THAN 1100mm IN HEIGHT FROM FINISHED LEVELS. THE LOWEST PORTION OF SUCH PARAPETS/RAILINGS SHALL BE OF SOLID CONSTRUCTION MIN. 150 mm HIGH.
5. ALL REQUIRED STAIRCASES SHALL HAVE A CLEAR HEIGHT OF NOT LESS THAN 2000mm, ± 2300mm MIN. TO UNDERSIDE OF BEAM, AND HANDRAIL SHOULD BE PROVIDED ON BOTH SIDE AT 1100mm HIGH.
6. TREADS OF STAIRCASES SHALL BE NOT LESS THAN 225mm AND RISE NOT MORE THAN 175 mm.
7. ALL BRICK WORK AND MASONRY TO BE BUILT IN 1:3 CEMENT MORTAR.
8. ALL R.C. WORK TO BE 1:2:4 MIX UNLESS OTHERWISE STATED.
9. ALL STRUCTURAL MEMBERS REFER TO STRUCTURAL DRAWINGS.
10. DESIGN MANUAL OF BARRIER FREE ACCESS SHALL NOT APPLY TO TEMPORARY BUILDINGS REFERRED TO IN PART VI OF THE BUILDING (PLANNING) REGULATIONS.
11. ALL LAVATORIES AREAS SHALL BE PROVIDED WITH CEMENT OR GLAZED TILE DADO OF NOT LESS THAN 1200mm HIGH AND SHALL BE PAVED WITH CEMENT OR MOSAIC TILE FLOORING.
12. EVERY PART OF AN EXIT ROUTE SHALL BE PROVIDED WITH ARTIFICIAL LIGHTING PROVIDING A HORIZONTAL ILLUMINANCE AT FLOOR LEVEL OF NOT LESS THAN 30 LUX AND BACK UP BY AN EMERGENCY LIGHTING SYSTEM PROVIDING A HORIZONTAL ILLUMINANCE AT FLOOR LEVEL NOT LESS THAN 3 LUX.
13. ALL LAVATORIES AREAS SHALL BE PROVIDED WITH CEMENT OR GLAZED TILE DADO OF NOT LESS THAN 1200mm HIGH AND SHALL BE PAVED WITH CEMENT OR MOSAIC TILE FLOORING.
14. FIRE PROTECTION AS SHOWN IN STRUCTURAL DRAWINGS FOR STRUCTURAL STEEL AS REQUIRED.
15. WATER AUTHORITY REQUIREMENTS TO BE COMPLIED WITH.
16. ALL UNAUTHORIZED BUILDING WORKS TO BE REMOVED AND/OR REINSTATED.
17. ALL DIMENSIONS SHOWN ON ALL DRAWINGS ARE MEASURED FROM STRUCTURAL SURFACE UNLESS OTHERWISE SPECIFIED.
18. ALL WORKS TO COMPLY WITH BUILDING (CONSTRUCTION) REGULATION IN ACCORDANCE WITH 1997 ED.
19. ALL WINDOWS AT GROUND FLOOR LEVEL WITHIN 2500mm HIGH SHALL BE FIXED OR OPEN INWARDS OR SLIDING.
20. NON-COMBUSTIBLE MATERIAL FOR WHOLE BUILDING AND MAINTENANCE SHED

## FIRE SERVICES NOTES

- a. A FIRE HYDRANT/HOSE REEL SYSTEM TO BE PROVIDED FOR THE ENTIRE BUILDING. THE SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE CODES OF PRACTICE FOR MINIMUM FIRE SERVICE INSTALLATIONS AND EQUIPMENT 2012.
- c. HYDRANT AND HOSE REELS TO BE PROVIDED TO ENSURE THAT EVERY PART OF THE BUILDING CAN BE REACHED BY A LENGTH OF NOT MORE THAN 30m OF FIRE SERVICES HOSE AND HOSE REEL TUBING.
- d. ONE 35000 LITRES F.S. WATER TANK TO BE PROVIDED AS INDICATED ON PLANS.
- e. TWO FIXED FIREFIGHTERS (DUTY/STANDBY) TO BE PROVIDED TO MAINTAIN A RUNNING PRESSURE OF 150-180 LPM WITH A MINIMUM FLOW OF NOT LESS THAN 1350 L/MIN FROM ANY THREE HYDRANT OUTLETS.
- f. AN INDEPENDENT F.S. INLET TO BE PROVIDED FOR EACH HYDRANT RISING MAIN. ALL F.S. INLETS TO BE INTERCONNECTED.
- g. AN AUTOMATIC SPRINKLER SYSTEM TO BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE LPC FOR AUTOMATIC SPRINKLER INSTALLATIONS INCORPORATING BS EN 12845 : 2003 AND FSD CIRCULAR LETTER NO. 3/2006 AND NO. 3/2012. THE CLASSIFICATION OF THE OCCUPANCIES TO BE ORDINARY HAZARD GROUP 3.
- h. SPRINKLERS TO BE PROVIDED THROUGHOUT THE ENTIRE BUILDING INCLUDING STAIRCASES, COMMON CORRIDORS AND TOILETS EXCEPT E/M PLANT ROOMS, TBE ROOM AND SERVICE DUCTS.
- i. ONE 90000 LITRES SPRINKLER WATER TANK TO BE PROVIDED AS INDICATED ON PLANS (SPRINKLER ANNUNCIATOR PANELS LOCATED AT G/F FIRE CONTROL CENTRE.
- j. THE MAXIMUM STORAGE HEIGHTS IN ALL STORAGE ROOMS SHALL NOT EXCEED TABLE 1 OF BS EN 12845 2003.
- k. A FIRE DETECTION AND ALARM SYSTEM TO BE PROVIDED IN ACCORDANCE WITH BS 5839-1 : 2002 + A2 : 2008 AND FSD CIRCULAR LETTER NO. 1/2009 & NO. 3/2010.
- l. HEAT DETECTORS TO BE PROVIDED FOR ALL E/M PLANT ROOMS, BATTERY CHARGING ROOM, TBE ROOM, AND IN AREAS NOT COVERED BY SPRINKLER INSTALLATION.
- m. BREAKGLASS UNITS AND FIRE ALARM BELLS TO BE LOCATED AT ALL HOSE REEL POINTS. IN ADDITION, BREAKGLASS UNITS TO BE PROVIDED TO ALL STOREY EXITS AND ADJACENT TO ALL STAIRCASE EXITS TO OPEN AIR ON G/F OR PLACE OF ULTIMATE SAFETY. THE MANUAL FIRE ALARM SYSTEM TO BE INCORPORATED IN THE F/H/R SYSTEM AND INSTALLED AS AN INTEGRAL PART OF THE FIRE DETECTION SYSTEM. ONE ACTUATING POINT AND ONE AUDIO WARNING DEVE TO BE LOCATED AT EACH HOSE REEL POINT.
- n. ONE MAIN FIRE ANNUNCIATOR PANEL TO BE PROVIDED AT G/F FIRE CONTROL CENTRE TO RECEIVE ALL FIRE ALARM SIGNALS OF THE ENTIRE BUILDING.
- o. ALL FIRE ALARM SIGNALS INCLUDING FIRE DETECTORS, FLOW SWITCHES AND BREAKGLASS UNITS TO BE LINKED TO THE AUTHORIZED SERVICE PROVIDER'S COMPUTERIZED FIRE ALARM TRANSMISSION SYSTEM BY A DIRECT TELEPHONE LINE.
- p. VISUAL ALARM SIGNAL FLASHING RED LIGHTS TO BE PROVIDED AND BE LOCATED AT A PROMINENT LOCATION.
- q. UPON ACTUATION OF ANY FIRE ALARM SIGNALS, ALL FIRE ALARM BELLS WILL BE SOUND.
- r. VISUAL ALARM SIGNAL FLASHING RED LIGHTS WILL NOT BE PROVIDED IN ACCORDANCE WITH FSD APPROVED LETTER LETTER REF.: (1) IN FSD/2006-414 DATED 28 MARCH 2013. THIS BUILDING IS USED FOR STAFF ONLY.
- s. PORTABLE FIRE EXTINGUISHERS/SAND BUCKETS TO BE PROVIDED AT ALL E/M PLANT ROOMS, BATTERY CHARGING ROOM, TBE ROOM AND BAY MAINTENANCE SHED AS INDICATED ON PLANS.
- t. A SYSTEM TO BE PROVIDED TO STOP MECHANICALLY INDUCED AIR MOVEMENT WITHIN A DESIGNATED FIRE COMPARTMENT WHEN A VENTILATION/AIR CONDITIONING CONTROL SYSTEM IS PROVIDED.
- u. AN INDEPENDENT EMERGENCY GENERATOR OF SUFFICIENT CAPACITY TO BE PROVIDED TO MEET THE ESSENTIAL SERVICES DURING SHORTAGE OF UTILITY MAINS.
- v. SUFFICIENT DIRECTIONAL/EXIT SIGNS TO BE PROVIDED TO ENSURE THAT ALL EXIT ROUTES FROM ANY FLOOR WITHIN THE BUILDING ARE CLEARLY INDICATED AS REQUIRED BY THE CONFIGURATION OF STAIRCASES SERVING THE BUILDING AND TO BE COMPLIED WITH CIRCULAR LETTER 5/2008.
- w. SUCUOME FLUID FILLED TYPE (DRY TYPE) TRANSFORMERS TO BE PROVIDED AT TRANSFORMER ROOMS AS INDICATED ON PLANS. MECHANICAL VENTILATION TO BE PROVIDED FOR THE TRANSFORMER ROOMS.
- x. ATTENUATORS FOR ACOUSTIC AND THERMAL INSULATION PURPOSES IN DUCTINGS AND CONCEALED LOCATIONS TYPE OF CLASS 1 OR 2 RATE OF SURFACE SPREAD OF FLAME AS PER BS 476-7 OR ITS INTERNATIONAL EQUIVALENT, OR BE BROUGHT UP TO THAT STANDARD BY USE OF AN APPROVED FIRE RETARDANT PRODUCT.
- y. ALL ATTENUATORS FOR ACOUSTIC, THERMAL INSULATION AND DECORATIVE PURPOSES WITHIN PROTECTED MEANS OF ESCAPE TO BE OF CLASS 1 OR 2 RATE OF SURFACE SPREAD OF FLAME AS PER BS 476-7 OR ITS INTERNATIONAL EQUIVALENT, OR BE BROUGHT UP TO THAT STANDARD BY USE OF AN APPROVED FIRE RETARDANT PRODUCT.
- z. ANY EXTENDED STORAGE OR USE OF DANGEROUS GOODS AS DEFINED IN CHAPTER 295 OF THE LAWS OF HONG KONG TO BE NOTIFIED TO THE DIRECTOR OF FIRE SERVICES. (SEPARATE APPLICATION GIVING FULL DETAILS TO BE SUBMITTED TO THE DANGEROUS GOODS DIVISION REGARDING D.G. STORAGE).
- aa. A GAS EXTRACTION SYSTEM TO BE PROVIDED FOR THE G/F BATTERY CHARGING ROOM WHERE FLAMMABLE VAPOURS MAY BE GENERATED.
- ab. A 6LBS FM-200 AUTOMATIC FIXED SPRAYER UNIT TO BE PROVIDED AT G/F BATTERY CHARGING ROOM (WITH VOLUME LESS THAN 42.5 m³) AS INDICATED ON PLANS.

# F.S. NOTES (FOR BATTERY CHARGING ROOM)

1. A 6LBS FM-200 AUTOMATIC FIXED SPRAYER UNIT TO BE PROVIDED AT G/F BATTERY CHARGING ROOM (WITH VOLUME LESS THAN 42.5 m³) AS INDICATED ON PLANS.
2. SUFFICIENT EXIT SIGN TO BE PROVIDED TO ENSURE THAT THE ROOM WITHIN THE BUILDING ARE CLEARLY INDICATED AS REQUIRED BY THE CONFIGURATION OF STAIRCASE SERVING THE BUILDING AND TO BE COMPLIED WITH CIRCULAR LETTER NO. 5/2008.
3. MANUAL FIRE ALARM SYSTEM TO BE PROVIDED IN ACCORDANCE WITH BS 5839-1 : 2002+A2:2008 AND FSD CIRCULAR LETTER NO. 1/2009 & NO. 3/2010.
4. HEAT DETECTOR TO BE PROVIDED.
5. A GAS EXTRACTION SYSTEM TO BE PROVIDED FOR THE G/F BATTERY CHARGING ROOM WHERE FLAMMABLE VAPOURS MAY BE GENERATED.
6. A SYSTEM TO BE PROVIDED TO STOP MECHANICALLY INDUCED AIR MOVEMENT WITHIN A VENTILATION / AIR CONDITIONING CONTROL SYSTEM IS PROVIDED.
7. 4.5kg CO₂ FIRE EXTINGUISHER TO BE PROVIDED AS INDICATED ON PLAN.

## SCHEDULE OF WINDOW PROVISION

BLDG	USE	U.F.A. (SQ. M.)	WINDOW PROVISION		WINDOW OPENABLE PROVISION	
			REQ.	PRO.	REQ.	PRO.
G/F	OFFICE	31.458	3.146	(1.000 x 0.900) + (2.650 x 0.95) + (0.900 x 0.950) = 3.418 m² > 3.146 m²	1.966	(1.000 x 0.900) + (2.650 x 0.95) + (0.900 x 0.950) = 3.418 m² > 1.966 m²
	TOILET	3.981	0.398	(0.85 x 1.000) x 80% = 0.68 m² > 0.398 m²	0.398	(0.85 x 1.000) x 80% = 0.68 m² > 0.398 m²
1ST FL.	CONFERENCE ROOM	21.091	2.109	(2.650 x 0.900) + (1.250 x 0.500) x 80% = 2.408 m² > 2.109 m²	1.318	(2.650 x 0.900) + (1.250 x 0.500) x 80% = 2.408 m² > 1.318 m²
	OFFICE 1	20.953	2.095	(2.650 x 0.900) + (1.950 x 0.500) x 80% = 2.688 m² > 2.095 m²	1.310	(2.650 x 0.900) x 80% = 1.908 m² > 1.310 m²
	OFFICE 2	20.925	2.093	(2.650 x 0.900) + (1.950 x 0.500) x 80% = 2.688 m² > 2.093 m²	1.308	(2.650 x 0.900) x 80% = 1.908 m² > 1.308 m²
	BUS STAFF REST ROOM	30.225	3.023	2 x [(0.700 x 0.900) x 3 + (1.400 x 0.500)] x 80% = 4.144 m² > 3.023 m²	1.889	2 x [(0.700 x 0.900) x 3 + (1.400 x 0.500)] x 80% = 4.144 m² > 1.889 m²
	MALE TOILET & SHOWER CHANGING ROOM	57.036	5.703	10 x (0.600 x 0.900) + 4 x (0.500 x 0.900) x 80% = 5.700 m² > 5.704 m²	5.704	10 x (0.600 x 0.900) + 4 x (0.500 x 0.900) x 80% = 5.700 m² > 5.704 m²
	FEMALE TOILET & SHOWER CHANGING ROOM	18.316	1.832	(2.650 x 0.900) + (1.950 x 0.500) x 80% = 2.688 m² > 1.832 m²	1.832	(2.650 x 0.900) + (1.950 x 0.500) x 80% = 2.688 m² > 1.832 m²
	PANTRY	9.966	0.997	2 x (0.900 x 0.645) + (0.500 x 0.590) x 80% = 1.165 m² > 0.997 m²	0.623	2 x (0.900 x 0.645) + (0.500 x 0.590) x 80% = 1.165 m² > 0.623 m²

### REMARK :

- SUPERFICIAL AREA OF GLASS TO BE 80% OF WINDOW OPENING.
- MECHANICAL VENTILATION AND ARTIFICIAL LIGHTING COMPLIED WITH BUILDING (PLANNING) REGULATION 34

## FIRE RESISTANCE REQUIREMENT FOR ELEMENTS OF CONSTRUCTION

BLDG	USE	CLASS	COMPARTMENT OF BLDG		F.R.R. REQ'D (MINS.)	MINIMUM DIMENSIONS FOR ELEMENTS OF CONSTRUCTION										
			AREA (m <sup>2</sup> )	VOL. (m <sup>3</sup> )		R.C.C. SLAB	R.C.C. COLUMN	R.C.C. WALL	DRY WALL	BRICK WALL	THICKNESS (mm)	COVER (mm)	THICKNESS (mm)	COVER (mm)	THICKNESS (mm)	THICKNESS (mm)
GRD. FL.	MAINTENANCE SHED	6a	689.328	6,775.530	120 MINS. F.R.R. TO STEEL FRAME ONLY OR AS SHOWN	140	35	35	-	-	-	-	-	-	150	150
	SERVICE TREATMENT PLANT	8	90.707	362.828		140	35	35	-	-	-	-	-	-	150	150
	STORAGE ROOM 1	6a	49.564	188.256		140	35	35	-	-	-	-	-	-	150	150
	STORAGE ROOM 2	6a	96.169	344.676		140	35	35	-	-	-	-	-	-	150	150
	BATTERY CHARGING & STORAGE ROOM	8	21.207	84.828		140	35	35	-	-	-	-	-	-	150	150
	STORAGE ROOM 4	6a	41.740	166.960		140	35	35	-	-	-	-	-	-	150	150
	WORKSHOP 1	6a	83.724	324.896		140	35	35	-	-	-	-	-	-	150	150
	WORKSHOP 2	6a	20.050	80.2		140	35	35	-	-	-	-	-	-	150	150
	COIN STORE	6a	5.238	21.312		140	35	35	-	-	-	-	-	-	150	150
	FIRE CONTROL CENTRE	8	4.606	18.424		140	35	35	-	-	-	-	-	-	150	150
	SPRINKLER & T.S. PUMP ROOM	8	32.13	128.52		140	35	35	-	-	-	-	-	-	150	150
	ELECT. METER ROOM	8	7.095	28.360		140	35	35	-	-	-	-	-	-	150	150
1ST. FL.	T.B.E. ROOM	8	11.207	44.828	120 MINS. F.R.R. TO STEEL FRAME ONLY OR AS SHOWN	140	35	35	-	-	-	-	-	-	150	150
	EMERGENCY GEN.	8	14.894	59.576		140	35	35	-	-	-	-	-	-	150	150
	OFFICE	4a	33.876	135.504		60	140	35	35	-	-	-	-	-	150	150
	STORAGE ROOM 1	6a	94.156	376.624		140	35	35	-	-	-	-	-	-	150	150
	STORAGE ROOM 2	6a	43.888	175.552		140	35	35	-	-	-	-	-	-	150	150
	WORKSHOP 1	6a	60.655	242.620		140	35	35	-	-	-	-	-	-	150	150
	WORKSHOP 2	6a	31.144	124.576		140	35	35	-	-	-	-	-	-	150	150
	POTABLE WATER TANK & PUMP ROOM	8	11.756	47.024		140	35	35	-	-	-	-	-	-	150	150
	CONFERENCE ROOM	4a	21.091	84.364		60	140	35	35	-	-	-	-	-	150	150
	OFFICE 1	4a	20.953	83.812		60	140	35	35	-	-	-	-	-	150	150
	OFFICE 2	4a	20.925	83.7		60	140	35	35	-	-	-	-	-	150	150
	ING. STAFF REST ROOM	4a	32.918	131.672		60	140	35	35	-	-	-	-	-	150	150
	PANTRY	4a	11.675	46.700		120	140	35	35	-	-	-	-	-	150	150

- 120 MINS. F.R.R. TO BE PROVIDED FOR ALL THE ELEMENTS OF CONSTRUCTION

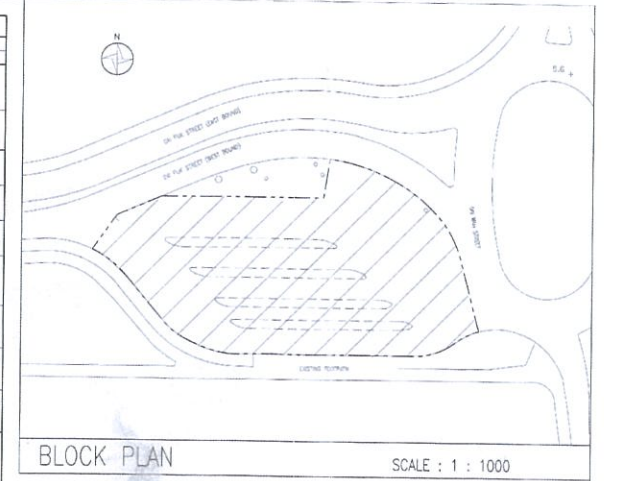
\* BRICK WALL 1/30M CYSLIN PLASTER ON EACH SIDE

## PROVISION OF EXIT DOOR AND EXIT ROUTE FROM ROOM OR STOREY

BLDG	USE	U.F.A. (m²)	FACTOR	CAPACITY OF ROOM /STOREY	MINIMUM NO. EXIT DOORS (FROM ROOM)	EXIT ROUTES (FROM STOREY)		MINIMUM TOTAL WIDTH OF (mm)				MINIMUM WIDTH OF EACH (mm)			
						REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
GRD FL.	MAINTENANCE SHED	685.284	30	23	1	2	-	1700	-	-	-	750	850	1050	-
	SERVICE TREATMENT PLANT	90.707	-	-	1	2	-	1800	-	-	-	750	1800	1050	-
	STORAGE ROOM 1	49.564	30	2	1	1	-	1800	-	-	-	750	1800	-	-
	STORAGE ROOM 2	82.752	30	3	1	2	-	1800	-	-	-	750	1800	-	-
	BATTERY CHARGING & STORAGE ROOM	19.175	-	-	1	1	-	800	-	-	-	750	800	-	-
	STORAGE ROOM 4	39.342	30	2	1	1	-	800	-	-	-	750	800	-	-
	WORKSHOP 1	80.236	4.5	18	1	1	-	1800	-	-	-	750	1800	1050	-
	WORKSHOP 2	17.837	4.5	4	1	1	-	800	-	-	-	750	800	1050	-
	CON. STORE	4.249	30	1	1	1	-	750	-	-	-	750	750	-	-
	OFFICE	31.458	9	4	1	1	-	850	-	-	-	750	850	1050	-
	SPRINKLER & F.S. ENGINE ROOM	32.130	-	-	1	1	-	800	-	-	-	750	800	-	-
	ELECT. METER ROOM	5.729	-	-	1	1	-	800	-	-	-	750	800	-	-
1ST FL.	T.B.E. ROOM	9.918	-	-	1	1	-	750	-	-	-	750	750	-	-
	EMERGENCY GEN.	13.430	-	-	1	1	-	750	-	-	-	750	750	-	-
	STORAGE RM. 1	89.013	30	3	2	2	1750	2200	2100	2430	850	850	1050	-	-
	STORAGE RM. 2	40.385	30	2	2	2	1750	2200	2100	2430	850	850	1050	-	-
	CONFERENCE ROOM	21.901	10	3	2	2	1750	2200	2100	2430	850	850	1050	-	-
	OFFICE 1	20.953	9	3	2	2	1750	2200	2100	2430	850	850	1050	-	-
	OFFICE 2	20.925	9	3	2	2	1750	2200	2100	2430	850	850	1050	-	-
	BUS STAFF REST ROOM	30.225	9	4	2	2	1750	2200	2100	2430	850	850	1050	-	-
	WORKSHOP 1	58.500	4.5	13	2	2	1750	2200	2100	2430	850	850	1050	-	-
	WORKSHOP 2	28.019	4.5	7	2	2	1750	2200	2100	2430	850	850	1050	-	-
	POTABLE WATER TANK & ENGINE ROOM	11.756	-	-	2	2	1750	2200	2100	2430	850	850	1050	-	-

### NOTE :

IN ACCORDANCE WITH EMPLOYERS STATEMENT OF OCCUPATION THE MAXIMUM NUMBER OF OCCUPANTS WITHIN THE BUILDING WILL NOT EXCEED 30 PERSONS.



## DOOR MARK :

- (S1) - METAL DOOR WITH UPPER VISION PANEL (\*NOTE)
- (S1a) - 120 MINS FRR METAL DOOR W/SMOKE SEAL
- (S2) - METAL DOOR (\*NOTE)
- (S2a) - METAL DOOR (\*NOTE)
- (S3) - 120 MINS FRR METAL DOOR WITH UPPER VISION PANEL W/SMOKE SEAL (\*NOTE)
- (AP) - 60 MINS FRR ACCESS PANEL

\*NOTE : ALL DOORS REQUIRED TO HAVE AN F.R.P. SHOULD BE SELF-CLOSING AND THESE DOORS INCLUDING FRAME SHOULD BE TESTED IN ACCORDANCE WITH BS 476 : PARTS 20 AND 24 : F.S. CODE 2011

## LEGEND :



PERIMETER OF MAINTENANCE SHED  
 $= f + e + d + c$   
 $= 15.495 \text{ m} + 45.2075 \text{ m} + 15.495 \text{ m} + 45.2075 \text{ m}$   
 $= 121.405 \text{ m}$

AGGREGATE OF THE EXTERNAL FACADE OF MAINTENANCE SHED ACCESSIBLE FOR EVA (A)  
= 37.046 m

PERCENTAGE OF EVA ACCESSIBLE FACADE / PERIMETER OF BUILDING  
 $= A / (f + e + d + c) \times 100\%$   
 $= 37.046 \text{ m} / 121.405 \text{ m} \times 100\%$   
 $= 30.510 \% > 25 \%$

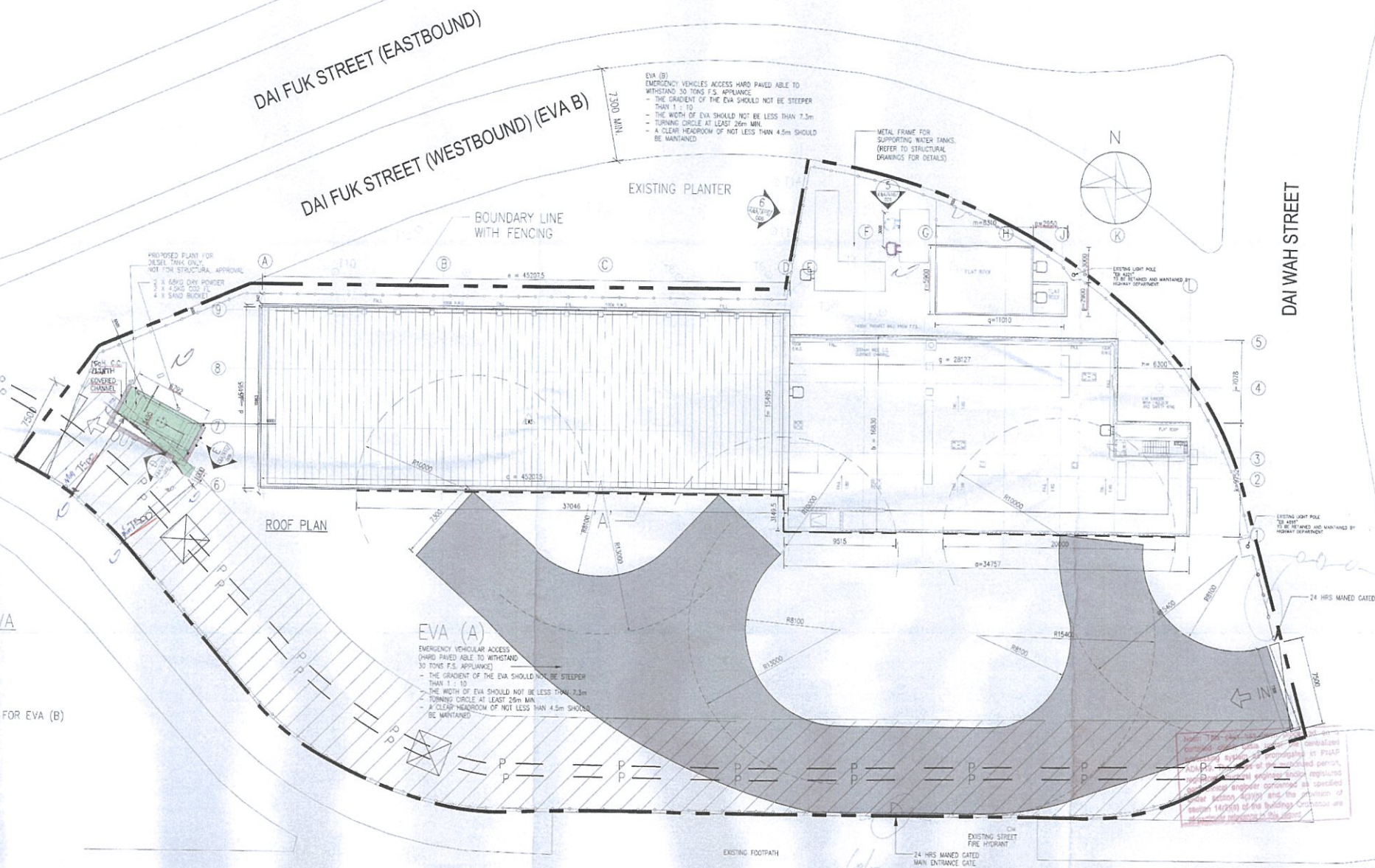
PERIMETER OF MAIN BUILDING  
 $= g + h + j + k + o + b$   
 $= 28.127 \text{ m} + 6.300 \text{ m} + 7.078 \text{ m} + 9.752 \text{ m} + 34.757 \text{ m} + 16.830 \text{ m}$   
 $= 102.844 \text{ m}$

AGGREGATE OF THE EXTERNAL FACADE OF MAIN BUILDING ACCESSIBLE FOR EVA (A)  
 = 3.1495 m + 9.515 m + 20.000 m  
 = 32.665 m

PERCENTAGE OF EVA ACCESSIBLE FACADE / PERIMETER OF BUILDING  
 $= A / (g + h + j + k + a + b) \times 100\%$   
 $= 32.665 \text{ m} / 102.844 \text{ m} \times 100\%$   
 $= 31.760 \% > 25 \%$

$$\begin{aligned} &= m + n + o + p + q + r \\ &= 8.310 \text{ m} + \underline{2.950 \text{ m}} + \underline{3.000 \text{ m}} + 2.900 \text{ m} + 11.010 \text{ m} + \underline{5.900 \text{ m}} \\ &= 34.070 \text{ m} \end{aligned}$$

AGGREGATE OF THE EXTERNAL FACADE OF TRANSFORMER ROOM AND SWITCH ROOM ACCESSIBLE FOR EVA (B)  
 $= 8.310 \text{ m} + \underline{2.950 \text{ m}} + \underline{3.000 \text{ m}} + 2.900 \text{ m}$   
 $= 17.160 \text{ m}$

$$= \frac{17,160 \text{ m}^2}{34,070 \text{ m}^2} \times 100\% = 50,39\% > 25\%$$


LEGEND

Plan Approved  
CHAN Che-bun, Anderson  
Senior Building Surveyor  
for BUILDING AUTHORITY  
12 MAY 2015

SIU Koon Hoi Carmine  
Authorised Person  
Registered Structural Engineer  
~~Registered Geotechnical Engineer~~

SITE LAYOUT PLAN  
MTR TAI PO MAINTENANCE CENTRE  
DAI FUK STREET, TAI PO

SCALE 1:200	DRAWING NO. K1155-12C/B/TAP/K&A/A10/002
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A	General Revision			May 2012		G	Revise location of the cotladder		MAR 2015	APR 2015	DRAWN	WW
B	General Revision			Nov 2012		H	General Revision		APR 2015		DESIGNED	DK
C	General Revision			Jan 2013	Feb 2013						CHECKED	BW
D	General Revision			Mar 2013	Apr 2013						APPROVED	DK
E	- revise annotation of the diesel fuel tank			July 2013	Aug 2013						DATE	30.07.13
F	Revise diesel fuel tank location			JUNE 2014	AUG 2014							
				DEC 2014	JAN 2015							
REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED	DO NOT SCALE DRAWINGS: ALL DIMENSIONS SHALL BE VERIFIED ON THE 1) WITH COMPASS/UNITS 2) WITH COMPASS/UNITS IN RESPECT OF THE DRAWING / DOCUMENT IS CORRECT BY THE NEW CONSTRUCTION LIMITS NONE-ONE NO RESOLUTION OF THE DRAWING / DOCUMENT OF THIS BY REVISIONS ARE FORMALLY WITHIN THE PREVIOUS CLOSURE OF THE NEW CONSTRUCTION LIMITS		

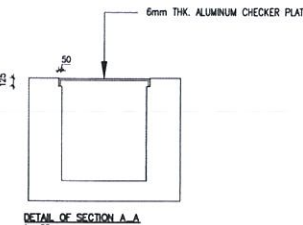


ORIGINATOR	
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**MEINHARDT**  
Meinhardt (Hong Kong) Ltd. Consulting Engineer  
邁進(香港)工程顧問有限公司

**KWONG & ASSOCIATES LIMITED**  
ARCHITECTURE URBAN DESIGN INTERIOR  
鄺穎文建築師事務所有限公司





**Note.** This plan has been processed on a fast-tracked basis under the centralized processing system as promulgated in PNAP ADM-19. The duties of the authorized person, registered structural engineer and/or registered geotechnical engineer concerned as specified under section 413(b) and the provision of section 14(2)(c) of the Buildings Ordinance are of particular relevance in this regard.

TBE ROOM DIAGRAMS &amp; CALCULATIONS

T.B.E. ROOM PROVIDED  
5.800 x 1.710 = 9.918 m<sup>2</sup>

T.B.E. ROOM CALCULATIONS

INDUSTRIAL BUILDING

993.343 m<sup>2</sup> (G/F) + 308.501 m<sup>2</sup> (1/F) = 1,311.844 m<sup>2</sup>

USABLE FLOOR SPACE £ (x 1,000 m<sup>2</sup>) £ < 2

T.B.E. ROOM THAT MAY BE EXEMPTED  
MIN. = 0 m<sup>2</sup>, MAX = 10 m<sup>2</sup>

TOTAL AREA OF T.B.E. ROOM PROVIDED  
0 m<sup>2</sup> < 9.918 m<sup>2</sup> < 10 m<sup>2</sup>

Plan Approved

CHAN Che-bun, Anderson  
Senior Building Surveyor  
for BUILDING AUTHORITY

- 5 JUN 2015



Permit No. & Issue Date	Description	Validity
AT/310/2015 (P12) DATE 5 June 2015	BUILDING STANDARDS OF SANITARY FITTINGS, PLUMBING, DRAINAGE WORKS & LATRINES REGULATION 29(1) TO PERMIT PROMOTION OF CLEARING AREA TO BE OTHER THAN CLEAVING EYES.	✓
	BUILDING STANDARDS OF SANITARY FITTINGS, PLUMBING, DRAINAGE WORKS & LATRINES REGULATION 44(4) TO PERMIT THE PROTECTION OF CAST IRON PIPES TO BE OTHER ASPHALTIC COATING.	✓
	BUILDING STANDARDS OF SANITARY FITTINGS, PLUMBING, DRAINAGE WORKS & LATRINES REGULATION 50(2) TO PERMIT THE JOINTING OF CAST IRON PIPES TO BE OTHER THAN LEAD CAULKING.	✓











Permit No. & Issue Date	Description	Validity
NT45/2013(M00) DATE 6 FEBRUARY 2013	(1) BUILDING (CONSTRUCTION) REGULATION 35 TO PERMIT THE LEVEL DIFFERENCE BETWEEN THE INTERNAL FLOOR ON G/F AND EXTERNAL GROUND TO BE LESS THAN 150MM.	
	1) PROVISION OF ADDITIONAL CHANNELS EACH WITH AT LEAST 2 NO. OF DRAINAGE OUTLETS AT THE INTERFACE OF INTERNAL FLOOR AREA AND EXTERNAL OF FLAT ROOF.	✓
	2) PROVISION OF A FALL, NOT LESS THAN 1:80, ON THE EXTERNAL GROUND SLOPING AWAY THE ADJOINING INTERNAL FLOOR AREA.	✓

Statement II:  
The works shown on these plan are Type II works.

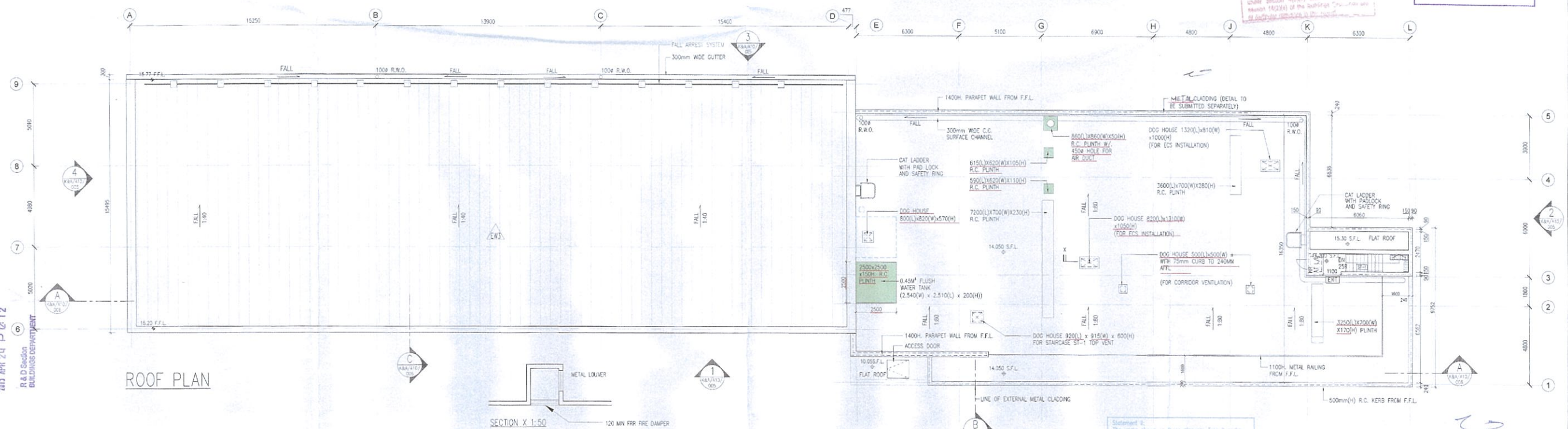
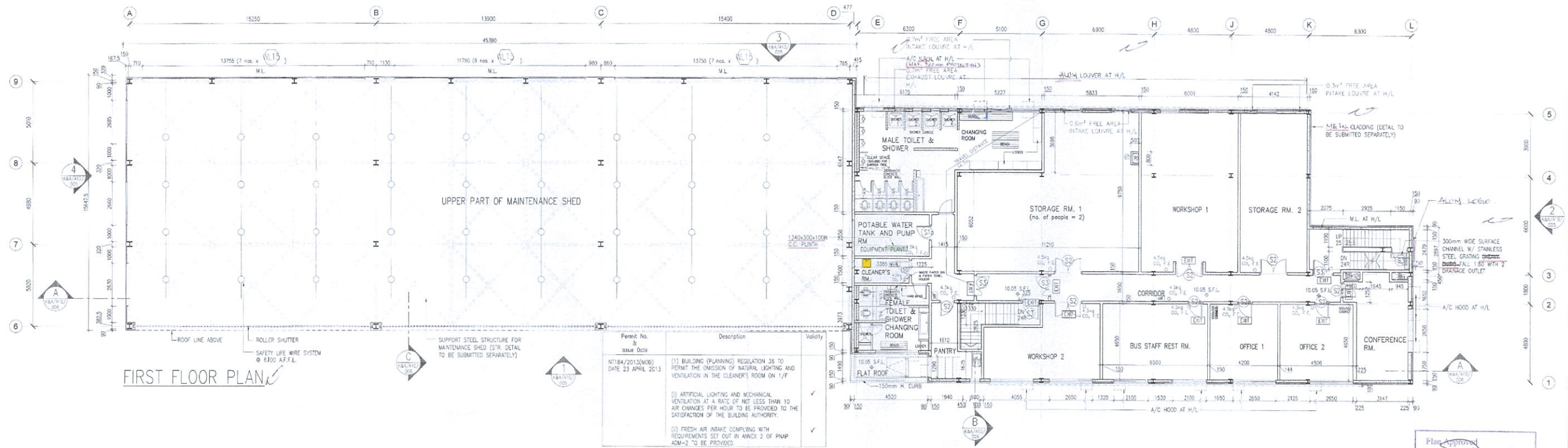
Building Plan (Temporary)

in respect of which the Buildings Authority's consent is applied for.

Sir Koo Hsi Carmine  
AP (E) 98/92  
RSC 98/92

												AMENDMENT PLAN														
—				May 2012		G	revise TEE door's ,revise STP exit door location				DEC 2014	JUN 2015	DRAWN	WW	<div><div></div><div></div></div>											





Plan Approved  
 CHAN Che-bun, Anderson  
 Senior Building Surveyor  
 for BUILDING AUTHORITY  
 12 MAY 2015

Notes: This plan has been processed on a controlled check basis under the automatic processing system as promulgated in Circular ADM-18. The duties of the building surveyor, ADM-18, The duties of the building surveyor, registered structural engineer and/or registered architectural engineer as required under section 4(1)(a) and the provisions of section 18(2)(a) of the Building Ordinance are not applicable to this plan.

RECEIVED BY 2015 APR 24 P 12:12 R&D Section BUILDING DEPARTMENT		DRAWN WW		MTR		PROJECT FIRST FLOOR PLAN & ROOF PLAN MTR TAI PO MAINTENANCE CENTRE DAI FUK STREET, TAI PO	
A	General Revision	May 2012		DEC 2014	JAN 2015	DESIGNED	CK
B	General Revision	Nov 2012	G	MAR 2015	APR 2015	CHECKED	BW
C	General Revision	Jan 2013	Feb 2013	APR 2015		APPROVED	DK
D	General Revision	Mar 2013	Apr 2013				
E	change external block wall to RC wall at office block	July 2013	Aug 2013				
F	change 53 door at ST-2 on 1/F from double door to single door and extend block wall to fit single door	Jan 2014	Feb 2014				
REV	DATE	BY	DATE	APPROVED	DATE	BY	DATE

ORIGINATOR  
 MEINHARDT  
 Meinhart (Hong Kong) Ltd. Consulting Engineers  
 邁進(香港)工程顧問有限公司

DATE: 30.07.13

30 METRE SCALE DRAWINGS ALL DIMENSIONS SHALL BE GIVEN ON SITE. DIMENSIONS OF CONSTRUCTION SHALL BE GIVEN IN METRE. DIMENSIONS OF CONSTRUCTION SHALL BE GIVEN IN METRE. DIMENSIONS OF CONSTRUCTION SHALL BE GIVEN IN METRE.

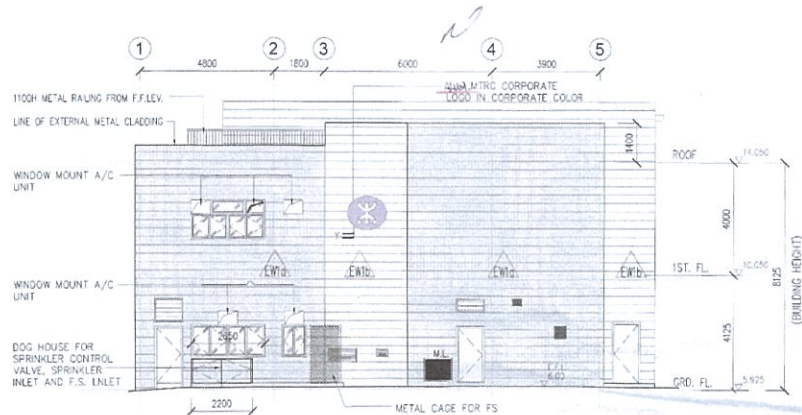
REGISTERED STRUCTURAL ENGINEER  
 SIU Koon Hoi Carmine  
 Authorized Person  
 Registered Structural Engineer  
 Registered Geotechnical Engineer

SCALE: 1:125  
 DRAWING NO: K1155-12C/B/TAP/K&A/A10/004  
 REV: J





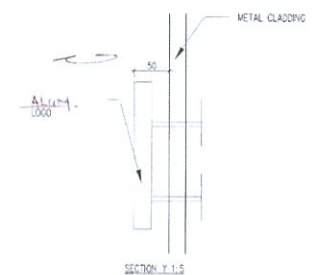
ELEVATION 1



ELEVATION 2

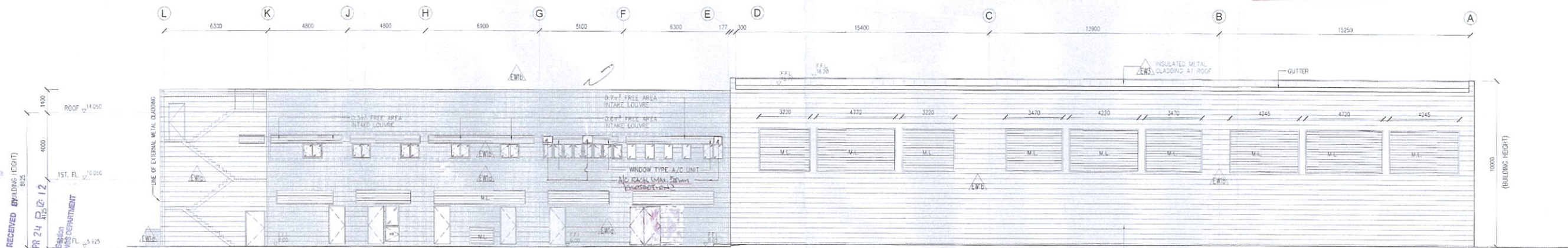


ELEVATION 4



Plan Approved  
CHAN Che-bun, Anderson  
Senior Building Surveyor  
for BUILDING AUTHORITY  
12 MAY 2015

Note: This plan has been prepared on a computerized system as promulgated in MAP ADM-19. The duties of the authorized person, registered structural engineer and registered professional engineer are specified under section 4(3)(2) and the provision of section 14(2)(b) of the Building Ordinance, and of particular relevance to this plan.



ELEVATION 3

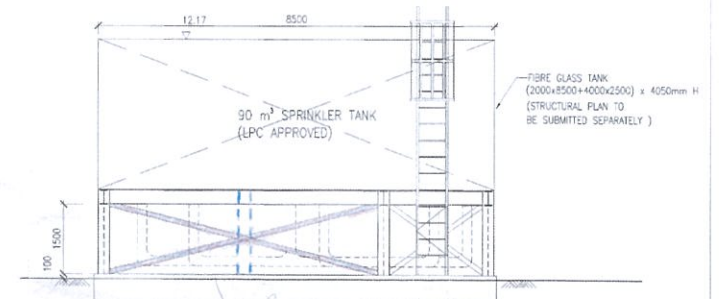
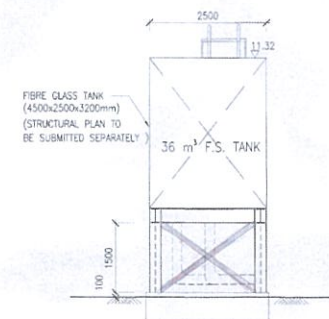
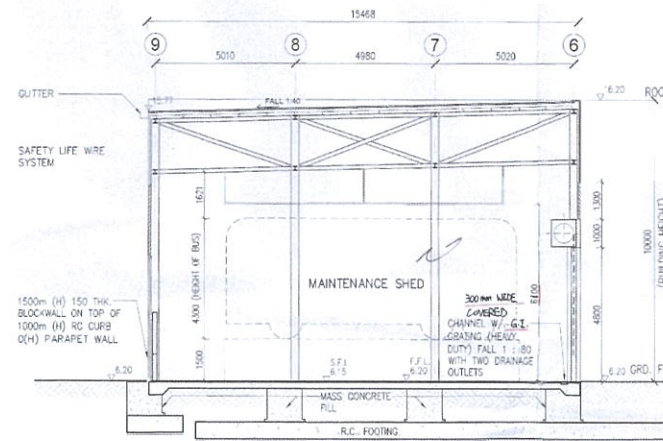
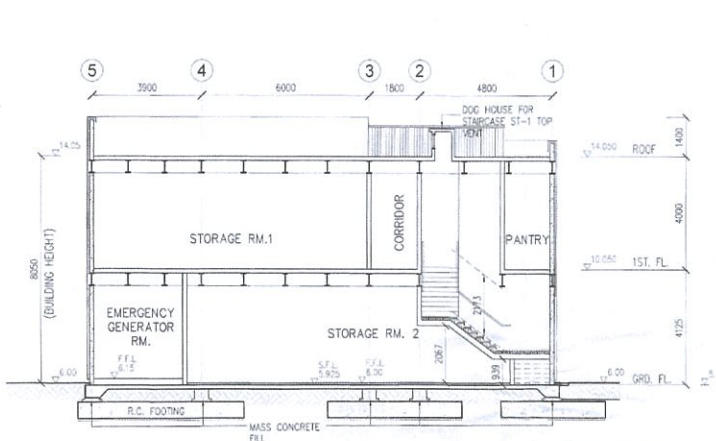
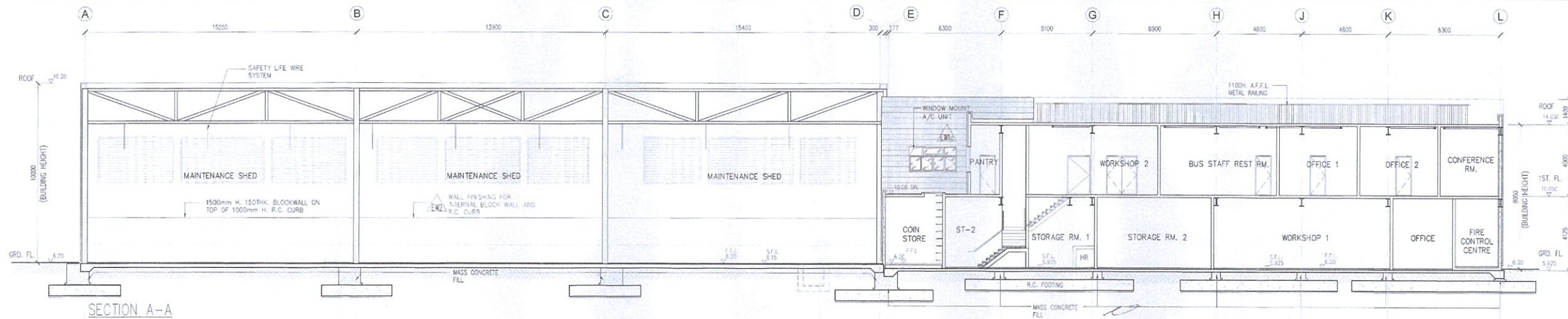
Statement is made that the works shown on these plans are Type A works.  
Building Plan (Temporary)  
In respect of which the Building Authority's consent is applied for.

SIU Koon Hoi Carmine  
Authorized Person  
Registered Structural Engineer  
Registered Professional Engineer

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
A	General Revision		May 2012						
B	General Revision		Nov 2012						
C	General Revision		Jan 2013						
D	General Revision		Mar 2013						
E	Step added outside Maintenance shed		July 2013						
F	Revise louvers size and location		Oct 2013						
			Nov 2013						
			Jun 2014						
			Jul 2014						

<p>DRAWN: WW</p> <p>DESIGNED: DK</p> <p>CHECKED: BW</p> <p>APPROVED: DK</p> <p>DATE: 30.07.13</p> <p>DO NOT SCALE DRAWING. ALL DIMENSIONS SHALL BE GIVEN ON SITE. IF ANY DISCREPANCY BETWEEN THE DRAWING AND THE SITE, THE DRAWING SHALL PREVAIL. NO REVISION OF THE DRAWING / DOCUMENT OF ANY PART BY MAINTENANCE WORKS IS PERMITTED WITHOUT THE WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.</p>	<p>MTR</p> <p>MEINHARDT</p> <p>KWONG &amp; ASSOCIATES LIMITED</p>	<p>PROJECT</p> <p>ELEVATIONS</p> <p>MTR TAI PO MAINTENANCE CENTRE</p> <p>DAI FUK STREET, TAI PO</p> <p>SCALE: 1:125</p> <p>DRAWING NO.: K1155-12C/B/TAP/K&amp;A/A10/005</p> <p>REV: J</p>
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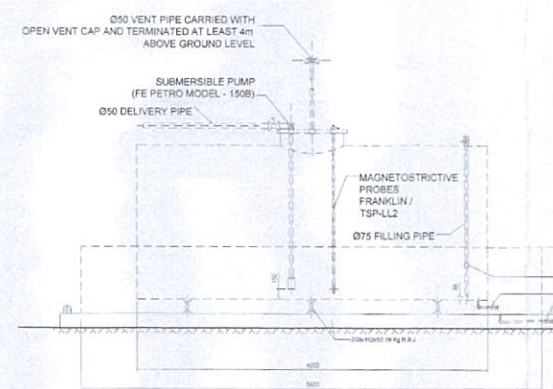
SECTION B-B

SECTION C-C

ELEVATION 5  
1:75

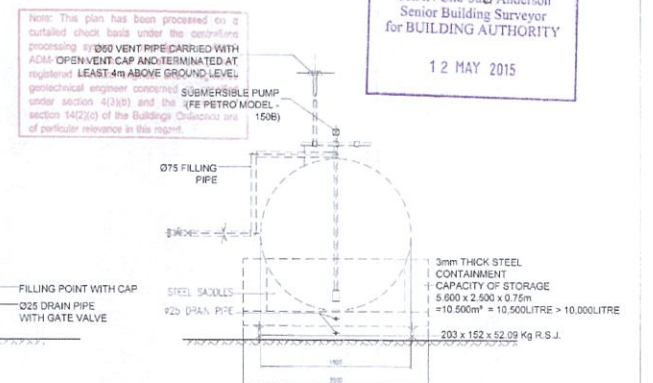
ELEVATION 6  
1:75

AREAS OF G.F.A. CONCESSION				AREAS OF G.F.A. CONCESSION			
STOREY	USE	GFA CONCESSION AREA (sq m)		STOREY	USE	GFA CONCESSION AREA (sq m)	
DISREGARDED GFA UNDER B(P/R 23) (3/16)				AMENITY FEATURES			
1.	Carpark and loading / unloading area excluding public transport terminus	NA		14.	Counter, office, store, guard room and laboratory for waterman and management staff, Owner's Corporation Office	NA	
2.	PLANT ROOMS AND SIMILAR SERVICES			15.	Residential Recreational facilities including void, plant room, swimming pool filtration plant room, covered walkway etc serving solely the recreational facilities	NA	
2.1	G/F SEWAGE TREATMENT PLANT	94.228		16.	Covered landscaped and play area	NA	
2.1	G/F EMERGENCY GEN. RM. & ELECT. METER ROOM	21.502		17.	Horizontal screen/covered walkway	NA	
2.1	G/F T.B.E. ROOM	9.918		18.	Larger lift shaft	NA	
2.2	G/F SPR. & F.S. PUMP ROOM	32.908		19.	Chimney shaft	NA	
2.2	G/F HOSE REEL	0.520		20.	Other non-mandatory or non-essential plant room, such as boiler room, SMATV room	NA	
2.2	G/F H.R. & FIRE HYDRANT	0.761		21.	PUMP ROOM	0.473	
2.2	1/F POTABLE WATER TANK & PUMP ROOM	12.158		21	PUMP ROOM	0.459	
2.3	Non-mandatory non-essential plant room such as A/C plant room, AHU room, etc.	NA		22	Pipe duct, air duct for non-mandatory or non-essential plant room	NA	
DISREGARDED GFA UNDER B(P/R 23A2)				23.	Plant room, pipe duct, air duct for environmentally friendly system and feature	NA	
3.	Area for picking up and setting down of persons departing from or arriving at the hotel by vehicle	NA		24.	High headroom and void in front of cinema, shopping arcade etc in non-domestic development	NA	
4.	Supporting facilities for a hotel	NA		25.	Void over main common entrance (Prestige entrance) in non-domestic development	NA	
GREEN FEATURES UNDER JPN1 and 2				26.	Other projections such as air conditioning box and platform with a projection of more than 750mm from the external wall	NA	
5.	Balcony for residential buildings	NA					
6.	Water common corridor & lift lobby	NA					
7.	Communal sky garden	NA					
8.	Communal podium garden for non-residential buildings	NA					
9.	Acoustic fin	NA					
10.	Wing wall, wind catcher & funnel	NA					
11.	Non-structural prefabricated external wall	NA					
12.	Utility platform	NA					
13.	Noise barrier	NA					



ELEVATION OF 10,000L A/G TANK (DIESEL)

SECTION E (PLANT FOR DIESEL TANK ONLY, NOT FOR STRUCTURAL APPROVAL)  
1:50



END VIEW

SECTION D (PLANT FOR DIESEL TANK, NOT FOR STRUCTURAL APPROVAL)  
1:50

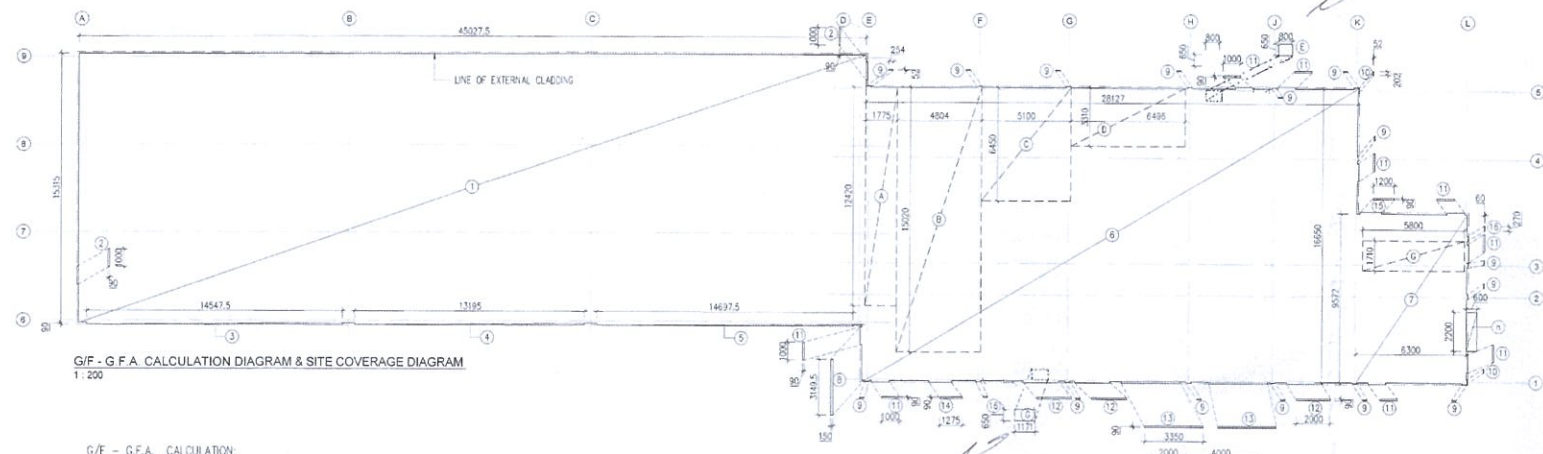
Plan Approved  
CHAN Cheuk Anderson  
Senior Building Surveyor  
for BUILDING AUTHORITY  
12 MAY 2015

SIU Koon Hoi Carmine  
Authorized Person  
Registered Structural Engineer  
Registered Geotechnical Engineer

RECEIVED BY 2015 APR 24 12:12 R & D Section BUILDINGS DEPARTMENT	May 2012	Nov 2012	Dec 2014	Jan 2015	Mar 2015	APR 2015	APR 2015	DATE	30.07.13	DO NOT SCALE DIMENSIONS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED. 2015. ALL RIGHTS RESERVED. IN RESPECT OF "MTR" BRANDS / LOGO / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY ANY OTHER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.	MTR	MEINHARDT Meinhart (Hong Kong) Ltd. Consulting Engineers 邁進(香港)工程顧問有限公司	KWONG & ASSOCIATES LIMITED ARCHITECTURE URBAN DESIGN INTERIORS 鄭國文建築師事務所有限公司	PROJECT SECTIONS & ELEVATIONS MTR TAI PO MAINTENANCE CENTRE DAI FUK STREET, TAI PO	SCALE 1:125	DRAWING NO. K1155-12C/B/TAP/K&A/A10/006	REV. J
A	General Revision																
B	General Revision																
C	General Revision																
D	General Revision																
E	change external wall from block wall to RC wall																
F	note revised from PSD comment																
REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED								



# G.F.A. & SITE COVERAGE CALCULATION



## G/F - G.F.A. CALCULATION:

A. MAINTENANCE SHED	1 x ① 45.0275 x 15.315	= 689.596
	2 x ② 2.090 x 1.000	= 0.180
	1 x ③ 14.5475 x 0.090	= 1.309
	1 x ④ 13.195 x 0.090	= 1.188
	1 x ⑤ 14.6975 x 0.090	= 1.323
SUB-TOTAL		= 693.596

B. MAIN OFFICE	1 x ⑥ 28.127 x 16.650	= 468.315
	1 x ⑦ 6.300 x 9.572	= 60.304
	1 x ⑧ 0.150 x 3.1495	= 0.472
	15 x ⑨ 0.254 x 0.052	= 0.198
	2 x ⑩ 0.052 x 0.202	= 0.021
	9 x ⑪ 1.000 x 0.090	= 0.810
	3 x ⑫ 2.000 x 0.090	= 0.540
	2 x ⑬ 3.350 x 0.090	= 0.603
	1 x ⑭ 1.275 x 0.090	= 0.115
	1 x ⑮ 1.200 x 0.090	= 0.108
	2 x ⑯ 0.270 x 0.060	= 0.032
SUB-TOTAL		= 531.518

## DEDUCT

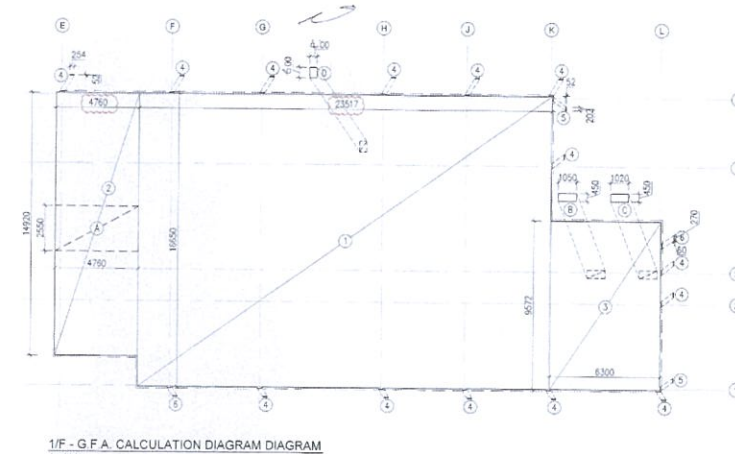
C. SEWAGE TREATMENT PLANT	1 x ① 1.775 x 12.420	= 22.046
	1 x ② 4.804 x 15.020	= 72.156
	2 x ③ 0.254 x 0.052	= 0.026
D. SPR. & F.S. PUMP ROOM	1 x ④ 5.100 x 6.450	= 32.895
	1 x ⑤ 0.254 x 0.052	= 0.013
E. DIAGNOSTIC GEN. RM. & PLANT METER ROOM	1 x ⑥ 6.495 x 3.310	= 21.502
F. HOSE REEL	1 x ⑦ 0.800 x 0.650	= 0.520
G. T.B.E. ROOM	1 x ⑧ 5.800 x 1.710	= 9.918
H. H.R. & FIRE HYDRANT	1 x ⑨ 1.171 x 0.650	= 0.761
SUB-TOTAL		= 159.837

GROUND FLOOR TOTAL G.F.A. = 693.596 + 531.518 - 159.837 = 1,065.277 m<sup>2</sup>

## TRANSFORMER RM. SWITCH RM. & METAL FRAME FOR SUPPORTING WATER TANK SITE COVERAGE CALCULATION 1:200

J. METAL FRAME FOR SUPPORTING WATER TANK	1 x ① 2.000 x 6.000	= 12.000
	1 x ② 6.000 x 2.500	= 15.000
	1 x ③ 2.500 x 4.500	= 11.250
K. TRANSFORMER RM.	1 x ④ 8.310 x 5.900	= 48.997
L. SWITCH RM.	1 x ⑤ 2.700 x 2.950	= 8.555
M. SPRINKLER VALVE	1 x ⑥ 0.600 x 2.200	= 1.320
SUB-TOTAL		= 97.154

TOTAL SITE COVERAGE = (① to ③) + (④ to ⑥) + ⑦ + ⑧ + ⑨ + ⑩ + ⑪ + ⑫ = 693.596 + 531.518 - 97.154 = 1,322.268 m<sup>2</sup>



## 1/F - G.F.A. CALCULATION:

A. MAIN OFFICE BUILDING	1 x ① 23.517 x 16.650	= 391.558
	1 x ② 4.760 x 14.920	= 71.019
	1 x ③ 6.300 x 9.572	= 60.304
	14 x ④ 0.254 x 0.052	= 0.185
	2 x ⑤ 0.052 x 0.202	= 0.021
	2 x ⑥ 0.060 x 0.270	= 0.032
DEDUCT		
	1 x ⑦ 4.760 x 2.550	= 12.138
	1 x ⑧ 1.050 x 0.450	= 0.473
	1 x ⑨ 1.020 x 0.450	= 0.459
	1 x ⑩ 0.400 x 0.600	= 0.240
TOTAL		= 509.809

FIRST FLOOR TOTAL G.F.A. = 509.809 m<sup>2</sup>

TOTAL NON-DOMESTIC G.F.A. = 1,065.277 + 509.809 = 1,575.086 m<sup>2</sup>

## CLASS OF SITE

SITE PARAMETERS & BUILDING HEIGHT  
(EXTRACTED FROM SHORT TERM TENANCY AGREEMENT NO. 1615 BY DIRECT COURT)

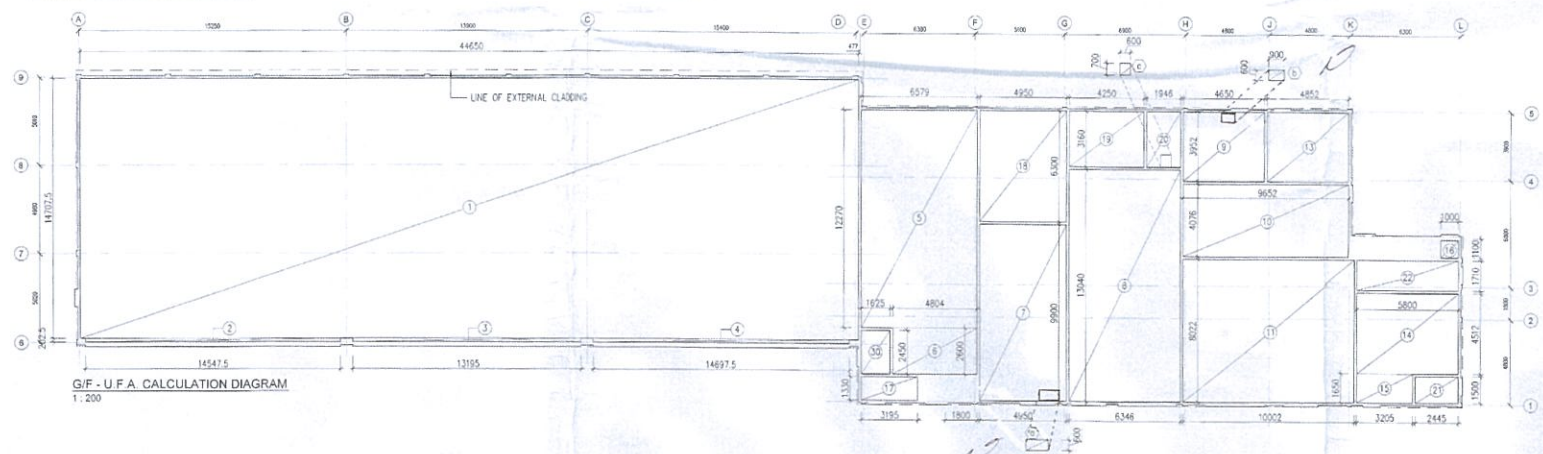
LOT AREA = 4,180 m<sup>2</sup>  
HEIGHT OF BUILDING = 10 m

## PLOT RATIO & SITE COVERED CALCULATION UNDER BUILDING (PLANNING) REGULATIONS

A. SITE COVERAGE:  
PERMITTED NON-DOMESTIC SITE COVERAGE UNDER STTA = 100%  
PROPOSED NON-DOMESTIC SITE COVERAGE (1,322.268 m<sup>2</sup> / 4,180 m<sup>2</sup>) x 100% = 31.633% < 100% (O.K.)

B. PLOT RATIO:  
PERMITTED PLOT RATIO (NON-DOMESTIC) = 5  
PROPOSED PLOT RATIO (NON-DOMESTIC) (1,575.086 m<sup>2</sup> / 4,180 m<sup>2</sup>) = 0.377 < 5 (O.K.)

# U.F.A. CALCULATION

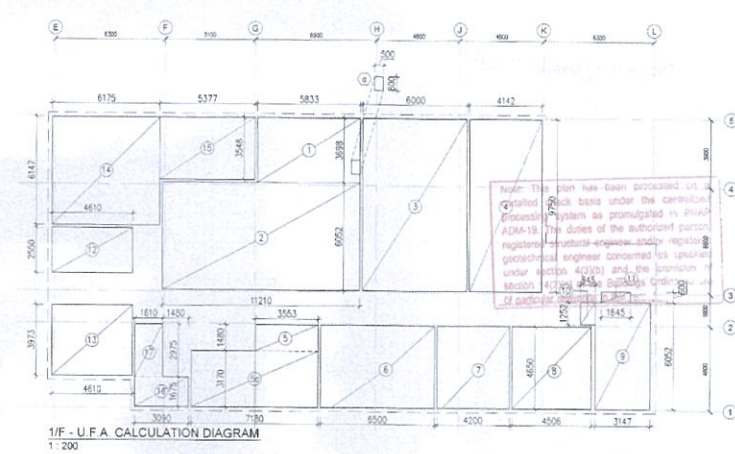


## G/F - U.F.A. CALCULATION:

A. MAINTENANCE SHED	1 x ① 44.650 x 14.7075	= 656.690
	1 x ② 14.5475 x 0.2025	= 2.946
	1 x ③ 13.195 x 0.2025	= 2.672
	1 x ④ 14.6975 x 0.2025	= 2.976
C. STORAGE ROOM 1	1 x ⑤ 4.950 x 9.900	= 49.005
DEDUCT		
	1 x ⑥ 1.271 x 0.600	= 0.763
D. STORAGE ROOM 2	1 x ⑦ 6.346 x 13.640	= 86.752
E. WORKSHOP 2	1 x ⑧ 4.650 x 3.952	= 18.377
DEDUCT		
	1 x ⑨ 0.900 x 0.600	= 0.540
F. STORAGE ROOM 4	1 x ⑩ 9.652 x 4.076	= 39.342
G. WORKSHOP 1	1 x ⑪ 10.002 x 8.022	= 80.226
H. BATTERY CHARGING ROOM	1 x ⑫ 4.852 x 3.852	= 18.715
I. OFFICE	1 x ⑬ 5.800 x 4.512	= 26.170
J. STORE	1 x ⑭ 3.205 x 1.650	= 5.288
K. COIN STORE	1 x ⑮ 1.195 x 1.320	= 1.588
O. FIRE CONTROL CENTRE	1 x ⑯ 2.445 x 1.500	= 3.668
TOTAL		= 983.343

## G/F - U.F.A. CALCULATION:

B. SEWAGE TREATMENT PLANT	1 x ① 6.579 x 12.270	= 80.724
	1 x ② 4.804 x 2.820	= 12.490
L. SPR. & F.S. PUMP RM.	1 x ③ 4.950 x 6.350	= 31.185
M. EMERGENCY GEN. RM.	1 x ④ 4.250 x 3.160	= 13.430
N. ELEC. METER RM.	1 x ⑤ 1.946 x 3.160	= 6.149
DEDUCT		
	1 x ⑥ 0.600 x 0.700	= 0.420
P. T.B.E.	1 x ⑦ 5.800 x 1.710	= 9.918
Q. TRANSFORMER ROOM	1 x ⑧ 0.300 x 4.800	= 1.440
	1 x ⑨ 7.310 x 5.550	= 40.571
	1 x ⑩ 0.300 x 4.800	= 1.440
R. SWITCH ROOM	1 x ⑪ 0.300 x 2.300	= 0.690
	1 x ⑫ 2.350 x 2.500	= 5.875
	1 x ⑬ 0.100 x 2.300	= 0.230
S. TOILET	1 x ⑭ 1.625 x 2.450	= 3.981



## 1/F - U.F.A. CALCULATION:

A. STORAGE ROOM 1	1 x ① 5.833 x 3.698	= 21.570
	1 x ② 11.210 x 0.052	= 0.584
DEDUCT		
	1 x ③ 0.500 x 0.800	= 0.400
B. WORKSHOP 1	1 x ④ 6.000 x 9.750	= 58.500
C. STORAGE ROOM 2	1 x ⑤ 4.142 x 9.750	= 40.385
D. WORKSHOP 2	1 x ⑥ 3.553 x 1.480	= 5.258
	1 x ⑦ 7.180 x 3.170	= 22.761
E. BUS STAFF REST ROOM	1 x ⑧ 6.500 x 4.650	= 30.225
F. OFFICE 1	1 x ⑨ 4.200 x 4.650	= 19.53
G. OFFICE 2	1 x ⑩ 4.506 x 4.650	= 20.953
H. CONFERENCE ROOM	1 x ⑪ 3.147 x 6.052	= 19.046
	1 x ⑫ 0.845 x 1.252	= 1.058
	1 x ⑬ 1.645 x 0.600	= 0.987
TOTAL		= 308.516

1/F - UFS 308.516 + 9.966 (Pantry) = 318.482 m<sup>2</sup>

Plan Approved  
CHAN Cheun, Anderson  
Senior Building Surveyor  
for BUILDING AUTHORITY  
12 MAY 2015

Statement is  
The works shown on these plans are Type B works  
Building Plan (Temporary)  
in respect of which the Building Authority's consent  
is applied for

SIU Koon Hoi Camrine  
Authorized Person  
Registered Structural Engineer  
Registered Geotechnical Engineer

RECEIVED BY  
2015 APR 24 P 13  
R&D Section  
BUILDINGS DEPARTMENT

REV	DESCRIPTION	BY	DATE	APPROVED	REV	DESCRIPTION	BY	DATE	APPROVED
A	add modification permit note, revise office calculation		July 2013						
B	revise ufs of office 1 and conference room at first floor, revise size of fire inlet cabinet		Dec 2014						
C	GENERAL REVISION		Mar 2015						
			APR 2015						

DRAWN	WW	DATE	30.07.13
DESIGNED	DK		
CHECKED	BW		
APPROVED	DK		
DATE	30.07.13		

PROJECT  
G.F.A., U.F.A. & SITE COVERAGE CALCULATION DIAGRAMS  
MTR TAI PO MAINTENANCE CENTRE  
DAI FUK STREET, TAI PO

SCALE  
1:200

DRAWING NO.  
K1155-12C/B/TAP/K&A/A10/007

REV.  
C

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