

FIRE SERVICES NOTES:

1. HOSE REEL SYSTEM

- 1.1 HOSE REEL SHALL BE PROVIDED AT POSITIONS AS INDICATED ON PLANS.
- 1.2 WATER SUPPLY FOR THE MODIFIED HOSE REEL SYSTEM TO BE SINGLE END FEED FROM THE GOVERNMENT TOWN MAIN.
- 1.3 A MODIFIED HOSE REEL SYSTEM OF 2,000 LITRES WATER TANK & PUMPS SHALL BE LOCATED AT THE SPR & FS PUMP ROOM ON G/F AS INDICATED ON PLANS.
- 1.4 TWO HOSE REEL PUMPS (ONE DUTY & ONE STANDBY) SHALL TO BE PROVIDED AT SPR & FS PUMP ROOM ON G/F.
- 1.5 NO FIRE SERVICES INLET TO BE PROVIDED FOR THE MODIFIED HOSE REEL SYSTEM.
- 1.6 SUFFICIENT HOSE REELS SHALL BE PROVIDED TO THE PREMISES AND PROTECTED FOR WHOLE PREMISES. HOSE REELS SHALL BE PROVIDED TO ENSURE THAT EVERY PART OF THE PREMISES CAN BE REACHED BY A LENGTH OF NOT MORE THAN 30 M OF HOSE REEL TUBING. ONE ACTUATING POINT AND ONE AUDIO WARNING DEVICE TO BE LOCATED AT EACH HR POINT.

2. SPRINKLER SYSTEM

- 2.1 THE CLASSIFICATION OF THE AUTOMATIC SPRINKLER INSTALLATION TO BE ORDINARY HAZARD GROUP 3.
- 2.2 AUTOMATIC SPRINKLER SYSTEM SHALL SUPPLIED BY AN 135,000L SPRINKLER WATER TANK AND COVERED TO THE ENTIRE STRUCTURES IN ACCORDANCE WITH LPC RULES INCORPORATING BS EN12845 : 2015 AND FSD CIRCULAR LETTER 5/2020. THE SPRINKLER WATER TANK, SPRINKLER PUMP ROOM AND SPRINKLER CONTROL VALVE GROUP SHALL BE LOCATED AS INDICATED ON PLANS.
- 2.3 SPRINKLER INLET SHALL BE POSITIONED IN A PROMINENT POSITION ON EXTERIOR OF THE BUILDING AS SHOWN ON PLAN.
- 2.4 ALL INSTALLED SPRINKLER SHOULD BE CONVENTIONAL TYPE AND THE TEMPERATURE RATING OF SPRINKLER HEAD SHALL BE 68°C UNLESS OTHERWISE SPECIFIED.
- 2.5 ALL SPRINKLER PIPE SIZE SHOULD BE ø32MM UNLESS SPECIFY.
- 2.6 STORAGE BLOCK SHOULD BE SEPARATED BY AISLES NO LESS THAN 2.4M WIDE.
- 2.7 THE MAXIMUM STORAGE AREA SHALL BE 50m² FOR ANY SINGLE BLOCK.
- 2.8 TYPE OF STORAGE METHOD FOR THOSE WAREHOUSES ARE AS FOLLOWS:
- i) STORAGE CATEGORY : CATEGORY (III)
- ii) STORAGE HEIGHT : NOT EXCEEDING 2.1M
- iii) STORAGE : ST1

3. FIRE ALARM SYSTEM

- 3.1 FIRE ALARM SYSTEM SHALL BE PROVIDED THROUGHOUT THE ENTIRE COVERED AREA OF WAREHOUSES IN ACCORDANCE WITH BS 5839-1 : 2017 AND FSD CIRCULAR LETTER 6/2021. ONE ACTUATING POINT AND ONE AUDIO WARNING DEVICE SHOULD BE LOCATED AT EACH HOSE REEL POINT. THE ACTUATION POINT SHOULD INCLUDE FACILITIES FOR HOSE REEL PUMP START AND AUDIO / VISUAL WARNING DEVICE INITIATION.
- 3.2 AN ADDRESSABLE TYPE FIRE ALARM PANEL TO BE PROVIDED INSIDE THE FS PUMP ROOM ON G/F.

4. EMERGENCY LIGHTING

- 4.1 SUFFICIENT EMERGENCY LIGHTING SHALL BE PROVIDED THROUGHOUT THE COVERED AREA OF WAREHOUSES IN ACCORDANCE WITH BS 5266-1:2016, BS EN 1838:2013 AND FSD CIRCULAR LETTER 4/2021.
- 4.2 EMERGENCY LIGHTING SHALL BE PROVIDED THROUGHOUT THOSE PREMISES LEADING TO EXIT OF BUILDING.

5. EXIT SIGN

- 5.1 SUFFICIENT SELF-CONTAINED TYPE DIRECTIONAL AND EXIT SIGNS TO ENSURE THAT ALL EXIT ROUTES FROM ANYWHERE WITHIN THOSE STRUCTURES ARE CLEARLY INDICATED AS REQUIRED BY THE CONFIGURATION OF EXIT ROUTE SERVING THE BUILDING.
- 5.2 DIRECTIONAL AND EXIT SIGNS SHALL BE INSTALLED IN ACCORDANCE TO BS 5266-1 : 2016 AND FSD CIRCULAR LETTER NO. 5/2008

6. EMERGENCY GENERATOR

- 6.1 NO EMERGENCY GENERATOR TO BE PROVIDED FOR SERVING THE EMERGENCY POWER. A.C. SUPPLY SOURCE WITH SECONDARY SUPPLY SHALL FEED BEFORE MAIN SWITCH.
- 6.2 DUPLICATED POWER SUPPLIES FOR ALL FIRE SERVICES INSTALLATIONS COMPRISING A CABLE CONNECTED FROM ELECTRICITY MAINS DIRECTLY BEFORE THE MAIN SWITCH.

7 PORTABLE HAND-OPERATED APPROVED APPLIANCE

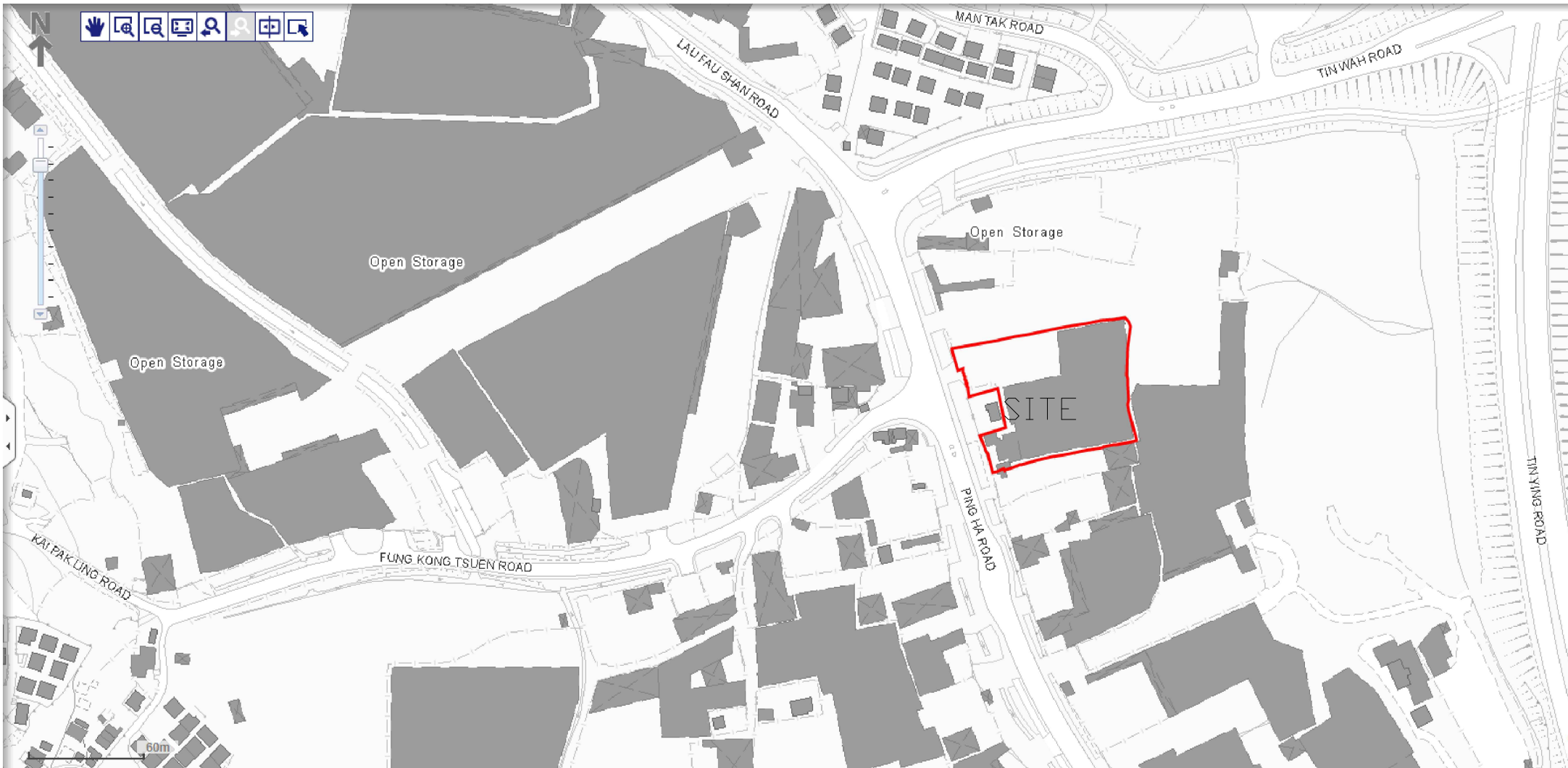
- 7.1 PORTABLE FIRE EXTINGUISHER WITH SPECIFIED TYPE AND CAPACITY TO BE PROVIDED TO EVERY LEVEL OF EVERY STRUCTURE WITHIN THE APPLICATION SITE AS INDICATED ON PLANS.

8 STATIC OR DYNAMIC SMOKE EXTRACTION SYSTEM

- 8.1 SMOKE EXTRACTION SYSTEM SHALL NOT BE PROVIDED AS THE AGGREGATE AREA OF OPENABLE WINDOWS OF THE COMPARTMENT SHALL PROVIDE MORE THAN 6.25% OF THE FLOOR AREA OF THAT COMPARTMENT.

9 VENTILATION/AIR CONDITIONING CONTROL SYSTEM

- 9.1 WHEN A VENTILATION/ AIR CONDITIONING CONTROL SYSTEM TO A BUILDING IS PROVIDED, IT SHALL STOP MECHANICALLY INDUCED AIR MOVEMENT WITHIN A DESIGNATED FIRE COMPARTMENT.



SITE LOCATION (NOT TO SCALE)

LEGEND (FOR SCHEMATIC DIAGRAM)

- HOSE REEL W/ LOCKABLE GLASS FRONTED NOZZLE BOX, STRIKER, C/W FIRE ALARM BELL & BREAK GLASS UNIT
- 150mm FIRE ALARM BELL
- BREAK GLASS UNIT
- GATE VALVE
- NON RETURN VALVE
- VORTEX INHIBITOR
- BALL FLOAT VALVE
- PRESSURE SWITCH
- PRESSURE GAUGE WITH COCK
- AUTOMATIC AIR VENT WITH COCK
- FS HOSE REEL PIPE
- FLEXIBLE CONNECTOR
- CHECK METER POSITION
- PLUG
- Y-STRAINER
- F.S. INLET
- HOSE REEL W/ LOCKABLE GLASS FRONTED NOZZLE BOX, STRIKER, C/W FIRE ALARM BELL & BREAK GLASS UNIT
- 150mm FIRE ALARM BELL
- BREAK GLASS UNIT
- PUMP
- EMERGENCY LIGHTING
- EXIT SIGN
- MANUAL TYPE FIRE ALARM PANEL
- PUMP PANEL WITH WATERPROOF ENCLOSURE
- SELF-CONTAINED EMERGENCY FLUORESCENT LIGHTING UNIT
- 5kg CO2 TYPE FIRE EXTINGUISHER
- 4kg DRY POWDER TYPE FIRE EXTINGUISHER

COLOUR CODE

PIPE SIZES	COLOUR
ø25mm	LIGHT GREEN
ø32mm	RED
ø40mm	PURPLE
ø50mm	YELLOW
ø65mm	BLUE
ø80mm	GREEN
ø100mm	LIGHT BROWN
ø150mm	DEEP BROWN

ABBREVIATION

SPR.	SPRINKLER
F.H.	FIRE HYDRANT
H.R.	HOSE REEL
F.E.	FIRE EXTINGUISHER
CO2	CARBON DIOXIDE
L.P.C.	LOSS PREVENTION COUNCIL
F.S.I.	FIRE SERVICES INSTALLATION
H/L	HIGH LEVEL
M/L	MID LEVEL
L/L	LOW LEVEL
F/A	FROM ABOVE
F/B	FROM BELOW
T/A	TO ABOVE
T/B	TO BELOW
U/G	UNDERGROUND
F.S.	FIRE SERVICES

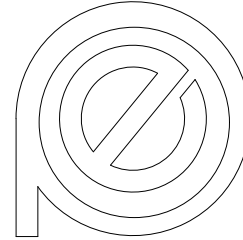
DRAWING LIST

DRAWING NO	DESCRIPTION
EP-10167-FS01	FS NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST
EP-10167-FS02	PROPOSED SPRINKLER SYSTEM LAYOUT PLAN
EP-10167-FS03	PROPOSED HOSE REEL SYSTEM LAYOUT PLAN
EP-10167-FS04	SITE BLOCK PLAN
EP-10167-FS05	OPENABLE WINDOW AREA CALCULATION FOR STRUCTURE
EP-10167-FS06	SCHEMATIC DIAGRAM FOR HOSE REEL SYSTEM
EP-10167-FS07	SCHEMATIC DIAGRAM FOR SPRINKLER SYSTEM

C	TBP RESUBMISSION	28-07-2025	HY
B	TBP RESUBMISSION	30-06-2025	HY
A	TBP SUBMISSION	21-02-2025	HY
REV	DESCRIPTION	DATE	BY

FSI CONTRACTOR

East Power Engineering Limited



Flat A, 7/F., Hop Shing Commercial Building
41 Chi Kiang Street, Tokwawan, Kowloon
Fax. : 2394-3772 Tel. : 2397-3238

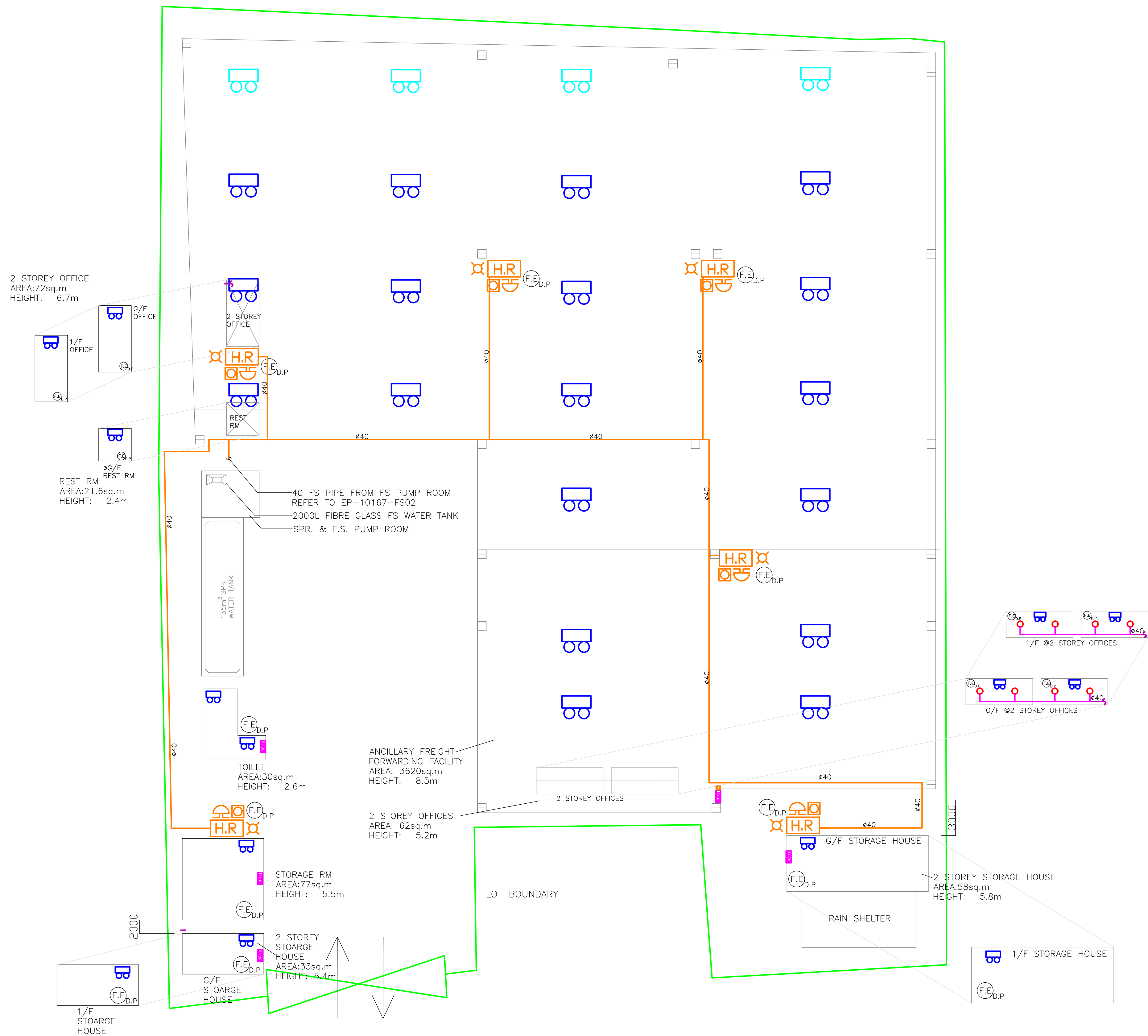
PROJECT

元朗慶村:DD129 LOT
3169(pt),3170(pt),3172RP(pt),3173S.ARP(pt),
3173S.B(pt),3173S.C(pt), 3174RP(pt),3175(pt),
3176,3177(pt),3178(pt), 3179(pt),3184(pt),
3185(pt), 3187RP(pt)及毗連政府土地。
擬為臨時建築機械配件倉庫及附屬工場，物流倉庫，辦公室，保安室及員工飯堂（為期三年）

DRAWING TITLE

FS NOTES, LEGEND, ABBREVIATIONS AND
DRAWING LIST

	INITIAL	DESIGNATION	DATE
DRAWN BY	KH	Eng.T	21-02-2025
DESIGNED BY	KH	Eng.T	21-02-2025
CHECKED BY	CM	PM	21-02-2025
APPROVED BY	-	-	-
PROJECT NO.	10167		
PAPER SIZE	A3	PLOT SCALE	1 : 1
DRAWING NO.			
EP-10167-FS01			
SCALE	N. T. S.	REVISION	C



C	TBP RESUBMISSION	28-07-2025	HY
B	TBP RESUBMISSION	30-06-2025	HY
A	TBP SUBMISSION	21-02-2025	HY
REV	DESCRIPTION	DATE	BY

FSI CONTRACTOR

East Power Engineering Limited

Flat A, 7/F., Hop Shing Commercial Building
41 Chi Kiang Street, Tokwawan, Kowloon
Fax : 2394-3772 Tel. : 2397-3238

PROJECT

元朗鄉村: DD129 LOT

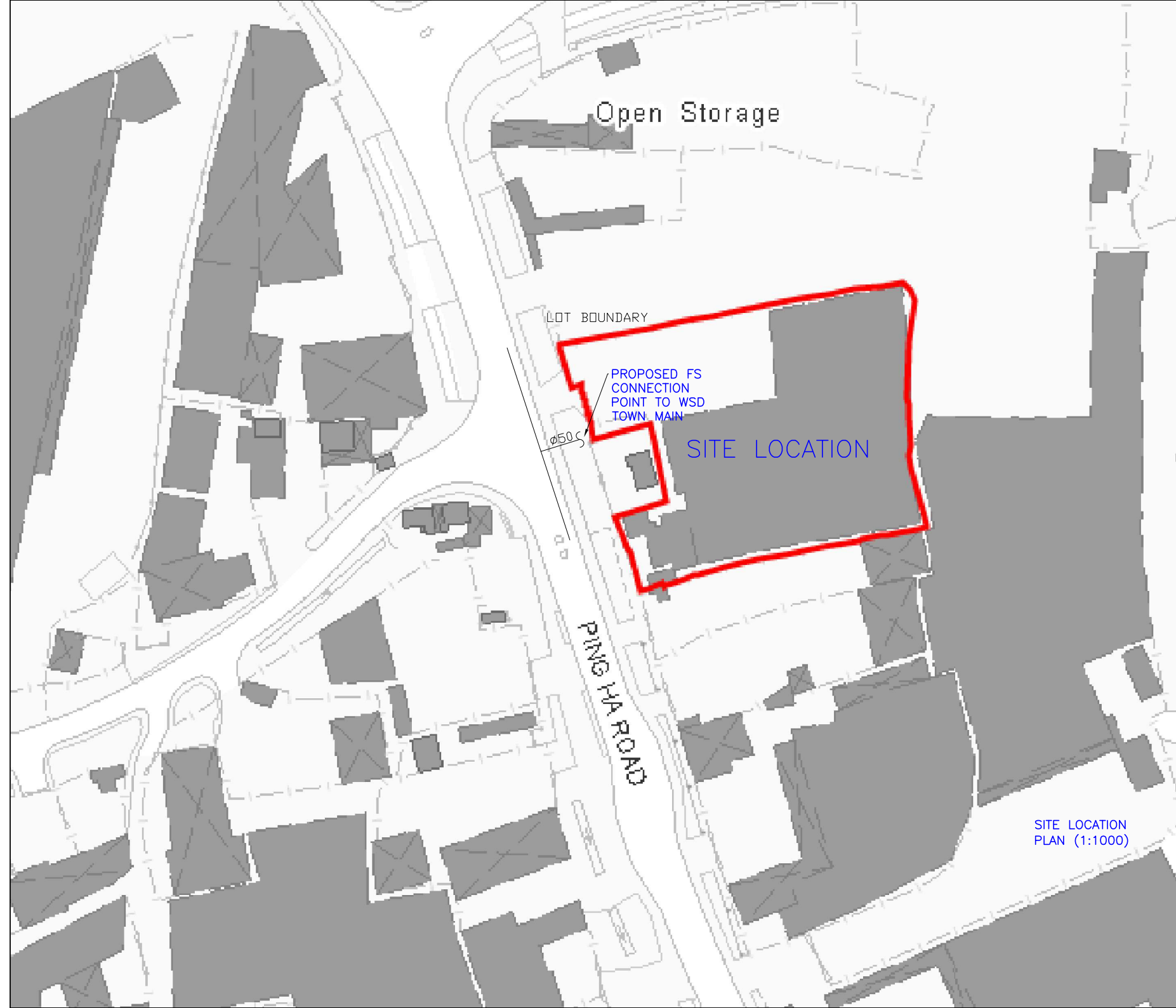
3169(pt),3170(pt),3172RP(pt),3173S.ARP(pt),
3173S.B(pt),3173S.C(pt), 3174RP(pt),3175(pt),
3176,3177(pt),3178(pt), 3179(pt),3184(pt),
3185(pt), 3187RP(pt)及毗連政府土地。

擬為臨時建築機械零件倉庫及附屬工場、物流倉庫、辦公室、保安室及員工飯堂(為期三年)

DRAWING TITLE

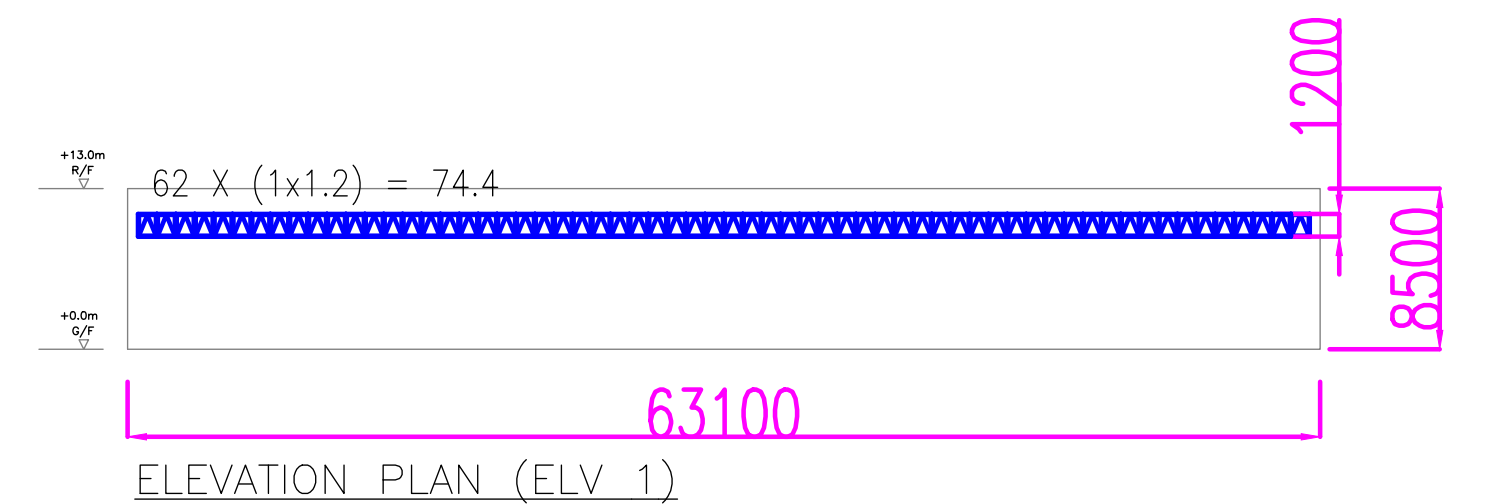
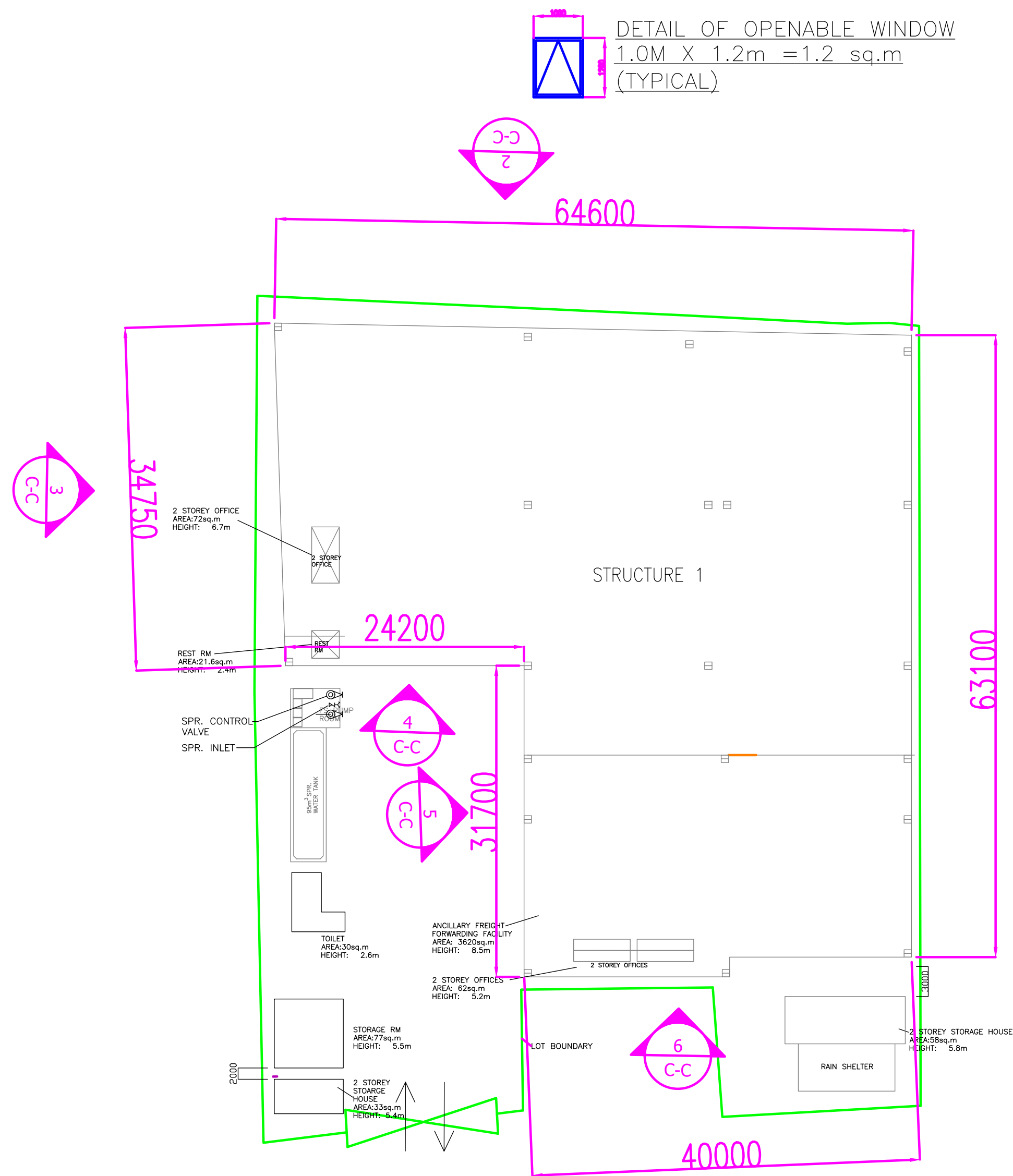
PROPOSED HOSE REEL SYSTEM LAYOUT PLAN

	INITIAL	DESIGNATION	DATE
DRAWN BY	KH	Eng.T	21-02-2025
DESIGNED BY	KH	Eng.T	21-02-2025
CHECKED BY	CM	PM	21-02-2025
APPROVED BY	-	-	-
PROJECT NO.	10167		
PAPER SIZE	A3	PLOT SCALE	1 : 1
DRAWING NO.			
EP-10167-FS03			
SCALE	1 : 300	REVISION	C

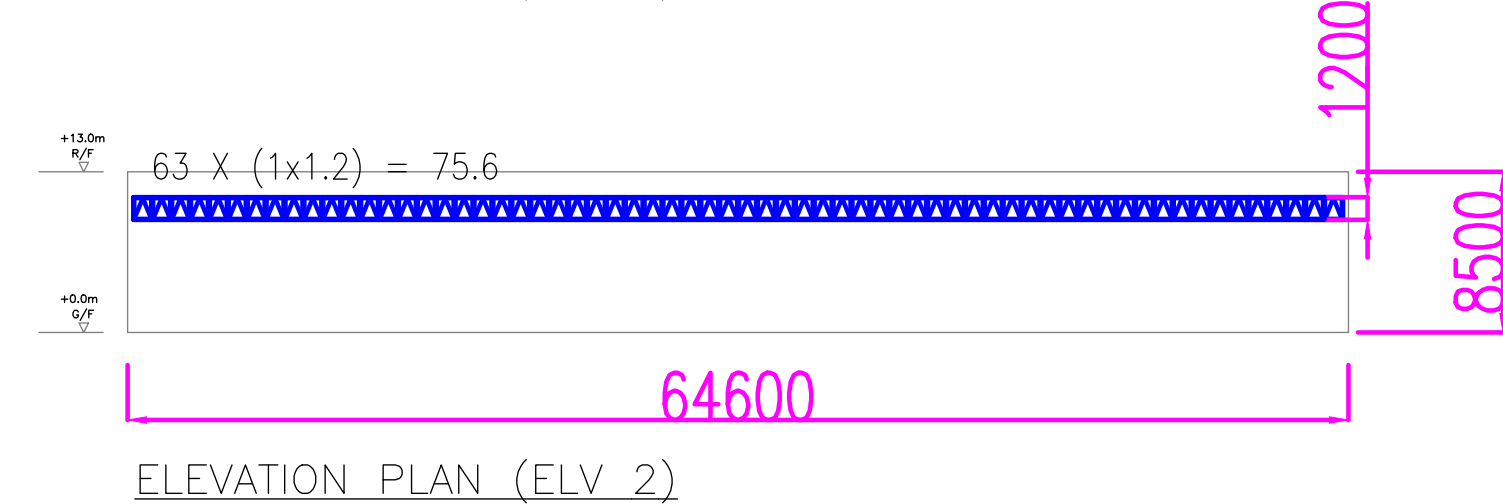


SITE LOCATION
PLAN (1:1000)

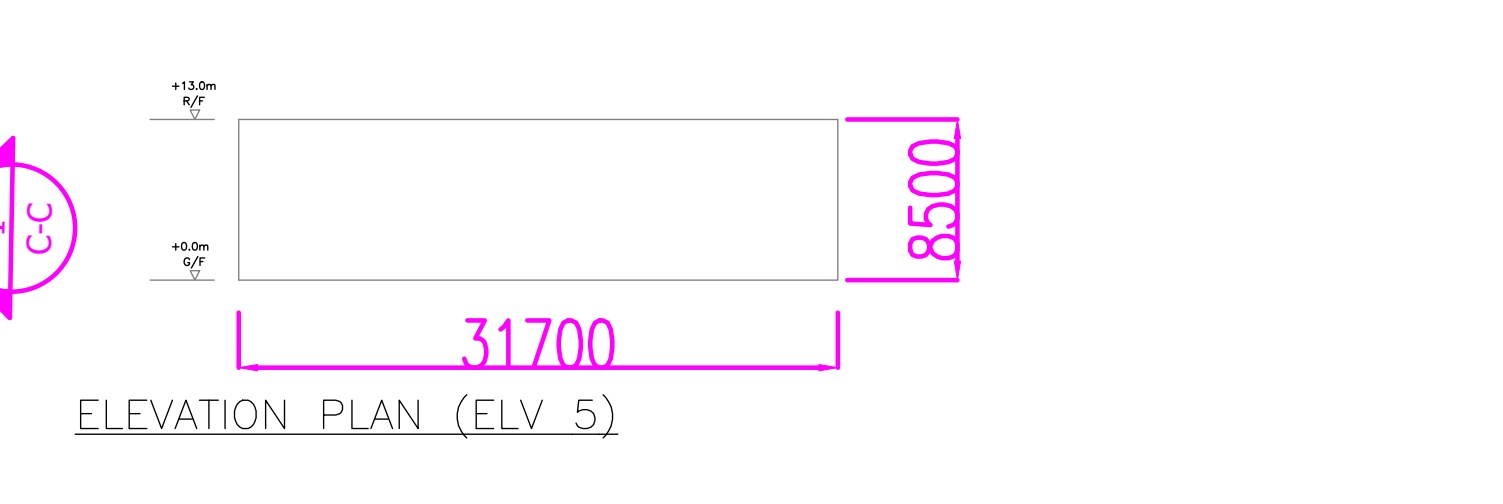
A	TBP SUBMISSION	21-02-2025	HY
REV	DESCRIPTION	DATE	BY
FSI CONTRACTOR			
East Power Engineering Limited			
 Flat A, 7/F., Hop Shing Commercial Building 41 Chi Kiang Street, Tokwawan, Kowloon Fax. : 2394-3772 Tel. : 2397-3238			
PROJECT			
元朗廠址: DD129 LOT 3169(pt),3170(pt),3172RP(pt),3173S.ARP(pt), 3173S.B(pt),3173S.C(pt), 3174RP(pt),3175(pt), 3176,3177(pt),3178(pt), 3179(pt),3184(pt), 3185(pt), 3187RP(pt)及電檢政府土庫。 擬於臨時建築圍封區內倉庫及附屬工場、物料倉庫、辦公室、保安室及員工飯堂(為期三年)			
DRAWING TITLE			
SITE BLOCK PLAN			
	INITIAL	DESIGNATION	DATE
DRAWN BY	KH	Eng.T	21-02-2025
DESIGNED BY	KH	Eng.T	21-02-2025
CHECKED BY	CM	PM	21-02-2025
APPROVED BY	-	-	-
PROJECT NO.	10167		
PAPER SIZE	A3	PLOT SCALE	1 : 1
DRAWING NO.			
EP-10167-FS04			
SCALE	1 : 1000	REVISION	D



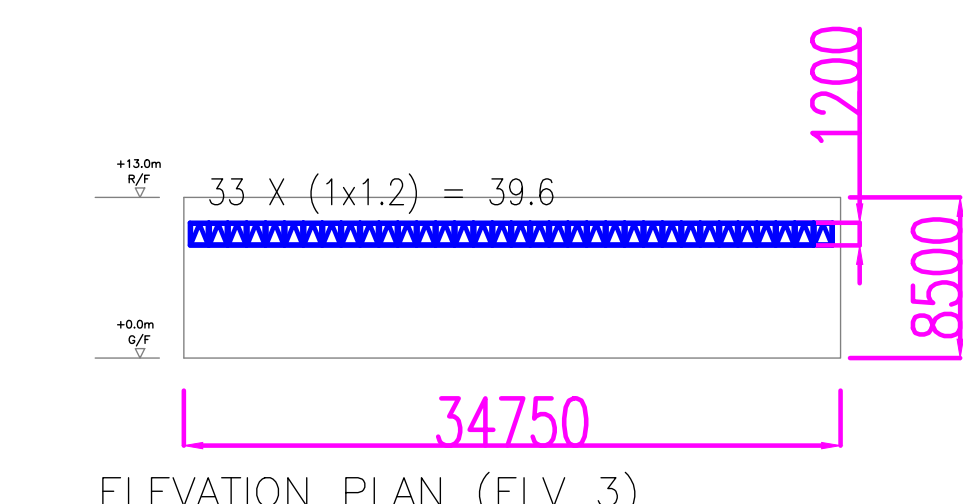
ELEVATION PLAN (ELV 1)



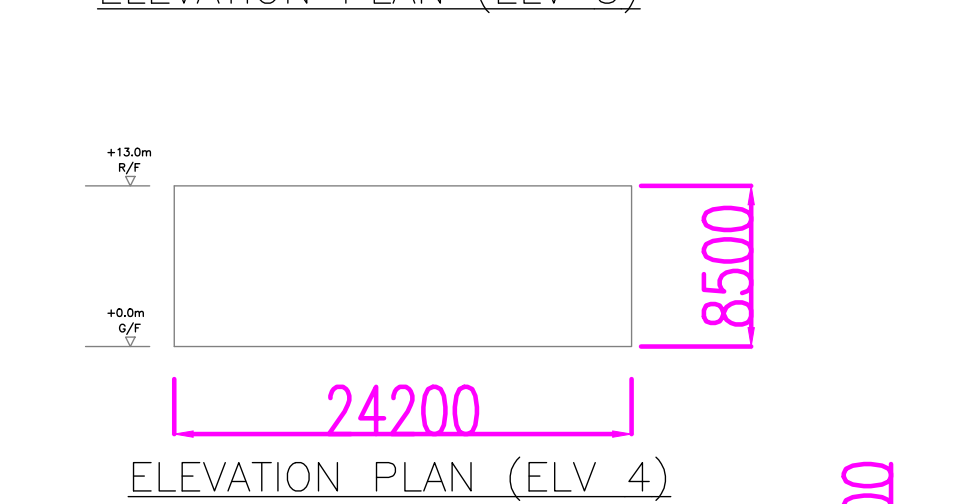
ELEVATION PLAN (ELV 2)



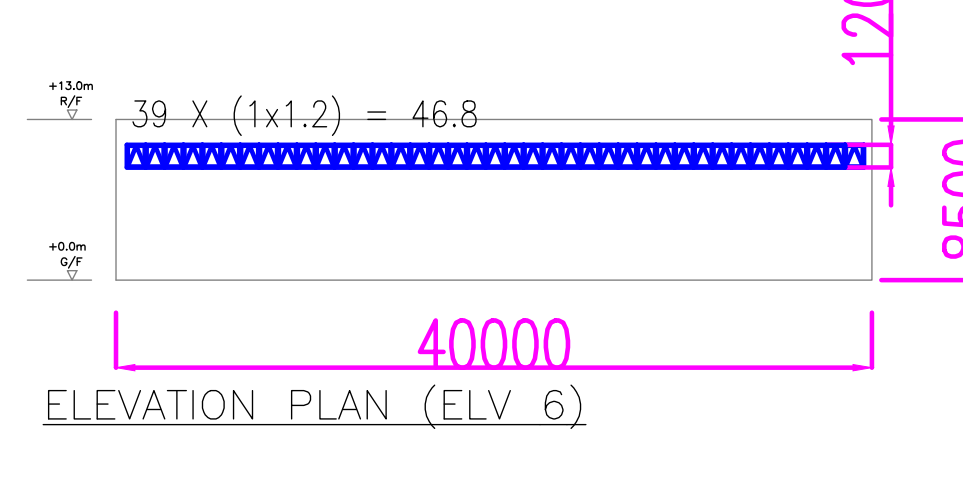
ELEVATION PLAN (ELV 5)



ELEVATION PLAN (ELV 3)



ELEVATION PLAN (ELV 4)



ELEVATION PLAN (ELV 6)

OPENABLE WINDOW AREA CALCULATION UNDER F.S.D. REQUIREMENT FOR COMPARTMENT EXCEEDING 7000m²				
LOCATION	USABLE FL. AREA (m²)	OPENABLE WINDOW AREA REQUIRED (m²)	OPENABLE WINDOW AREA PROVIDED	
STRUCTURE 1	3620	3620 X 6.25% = 226.25	REFER TO ELEVATION 1 = 74.4 REFER TO ELEVATION 2 = 75.6 REFER TO ELEVATION 3 = 39.6 REFER TO ELEVATION 4 = 0 REFER TO ELEVATION 5 = 0 REFER TO ELEVATION 6 = 46.8	TOTAL = 236.4 > 226.25

C	TBP RESUBMISSION	28-07-2025	HY
B	TBP RESUBMISSION	30-06-2025	HY
A	TBP SUBMISSION	21-02-2025	HY
REV	DESCRIPTION	DATE	BY

FSI CONTRACTOR

East Power Engineering Limited

Flat A, 7/F., Hop Shing Commercial Building
41 Chi Kiang Street, Tokwawan, Kowloon
Fax. : 2394-3772 Tel. : 2397-3238

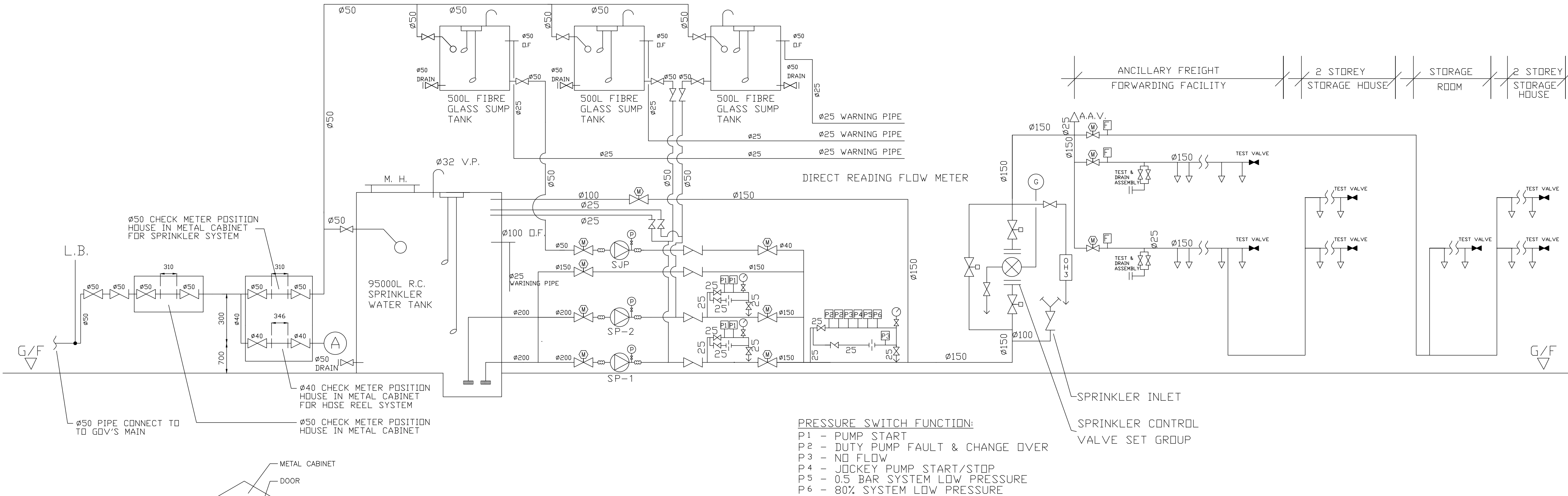
PROJECT

元朗鄉村: DD129 LOT
3169(pt),3170(pt),3172RP(pt),3173S.ARP(pt),
3173S.B(pt),3173S.C(pt), 3174RP(pt),3175(pt),
3176,3177(pt),3178(pt), 3179(pt),3184(pt),
3185(pt), 3187RP(pt)及毗連政府土地。
擬於臨時建築機械零件倉庫及附屬工場、物流倉庫、辦公室、保安室及員工飯堂(為期三年)

DRAWING TITLE			
OPENABLE WINDOW AREA CALCULATION FOR STRUCTURE			
	INITIAL	DESIGNATION	DATE
DRAWN BY	KH	Eng.T	21-02-2025
DESIGNED BY	KH	Eng.T	21-02-2025
CHECKED BY	CM	PM	21-02-2025
APPROVED BY	-	-	-
PROJECT NO.	10167		
PAPER SIZE	A3	PLOT SCALE	1 : 1
DRAWING NO. EP-10167-FS05			
SCALE	1 : 300	REVISION	C

PUMP SCHEDULE

DESCRIPTION	PRESSURE (BAR)	FLOW (L/MIN.)	PUMP SPEED (RPM)	PUMP RATING (KW)	POWER SUPPLY (volts/phases/Hz)
SPRINKLER JOCKEY PUMP (SJP-1)	4.5	60	2900 MAXIMUM	2.2 KW	380/3/50
TWO SPRINKLER PUMPS (SP-1 AS DUTY & SP-2 AS STAND-BY PUMP)	1.4 / 2.9 / 3.2	2250 / 1350 / 1100	2900 MAXIMUM	18.5 KW	380/3/50



SCHEMATIC DIAGRAM FOR SPRINKLER SYSTEM

C	TBP RESUBMISSION	28-07-2025	HY
B	TBP RESUBMISSION	30-06-2025	HY
A	TBP SUBMISSION	21-02-2025	HY
REV	DESCRIPTION	DATE	BY

FSI CONTRACTOR

East Power Engineering Limited

Flat A, 7/F., Hop Shing Commercial Building
41 Chi Kiang Street, Tokwawan, Kowloon
Fax : 2394-3772 Tel. : 2397-3238

PROJECT

元朗資料: DD129 LOT
3169(pt),3170(pt),3172RP(pt),3173S.ARP(pt),
3173S.B(pt),3173S.C(pt), 3174RP(pt),3175(pt),
3176,3177(pt),3178(pt), 3179(pt),3184(pt),
3185(pt), 3187RP(pt)及毗連政府土地。
擬於臨時建築機械零件倉庫及附屬工場、物流倉庫、辦公室、保安室及員工飯堂(為期三年)

DRAWING TITLE

SCHEMATIC DIAGRAM FOR SPRINKLER SYSTEM

	INITIAL	DESIGNATION	DATE
DRAWN BY	KH	Eng.T	21-02-2025
DESIGNED BY	KH	Eng.T	21-02-2025
CHECKED BY	CM	PM	21-02-2025
APPROVED BY	-	-	-
PROJECT NO.	10167		
PAPER SIZE	A3	PLOT SCALE	1 : 1
DRAWING NO. EP-10167-FS06			
SCALE	N. T. S.	REVISION	C

PUMP SCHEDULE

DESCRIPTION	PRESSURE (BAR)	FLOW (L/MIN.)	PUMP SPEED (RPM)	PUMP RATING (KW)	POWER SUPPLY (volts/phases/Hz)
TWO FIRE SERVICES PUMPS (FP-1 AS DUTY & FP-2 AS STANDBY PUMP)	6	3.3	2900 MAXIMUM	2.2KW	380/3/50

使用消防喉轆
TO OPERATE FIRE HOSE REEL

P₂

1.打爛火警鐘掣玻璃
BREAK THE GLASS OF THE FIRE ALARM CALL POINT
2.先開啟來水掣，再拉出膠喉
OPEN CONTROL VALVE BEFORE RUNNING THE HOSE
3.將喉咀掣開啟，然後射向火之底部
TURN ON WATER AT NOZZLE AND DIRECT JET AT THE BASE OF FIRE

(不適用於電火)
(NOT SUITABLE FOR ELECTRICAL FIRES)

(消防用水，嚴禁作其他用途)
(USE OF WATER FROM FIRE SERVICES
FOR PURPOSES OTHER THAN FIRE
FIGHTING IS STRICTLY PROHIBITED)

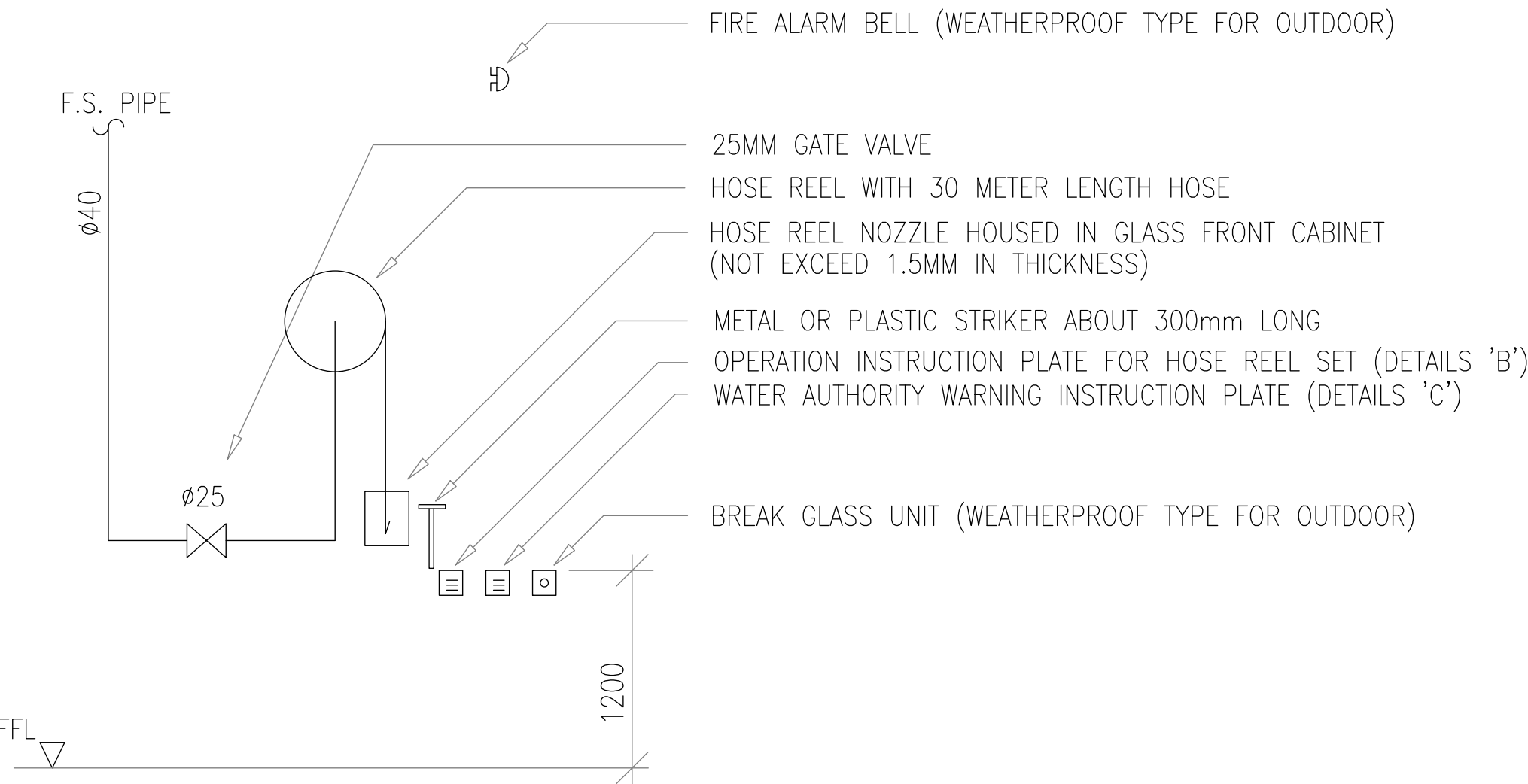
消防用水
嚴禁作其他用途

USE OF WATER FROM FIRE SERVICES
FOR PURPOSES OTHER THAN FIRE
FIGHTING IS STRICTLY PROHIBITED

水務監督事務署 Office Of the Water Authority

DETAIL 'C' (N.T.S.)

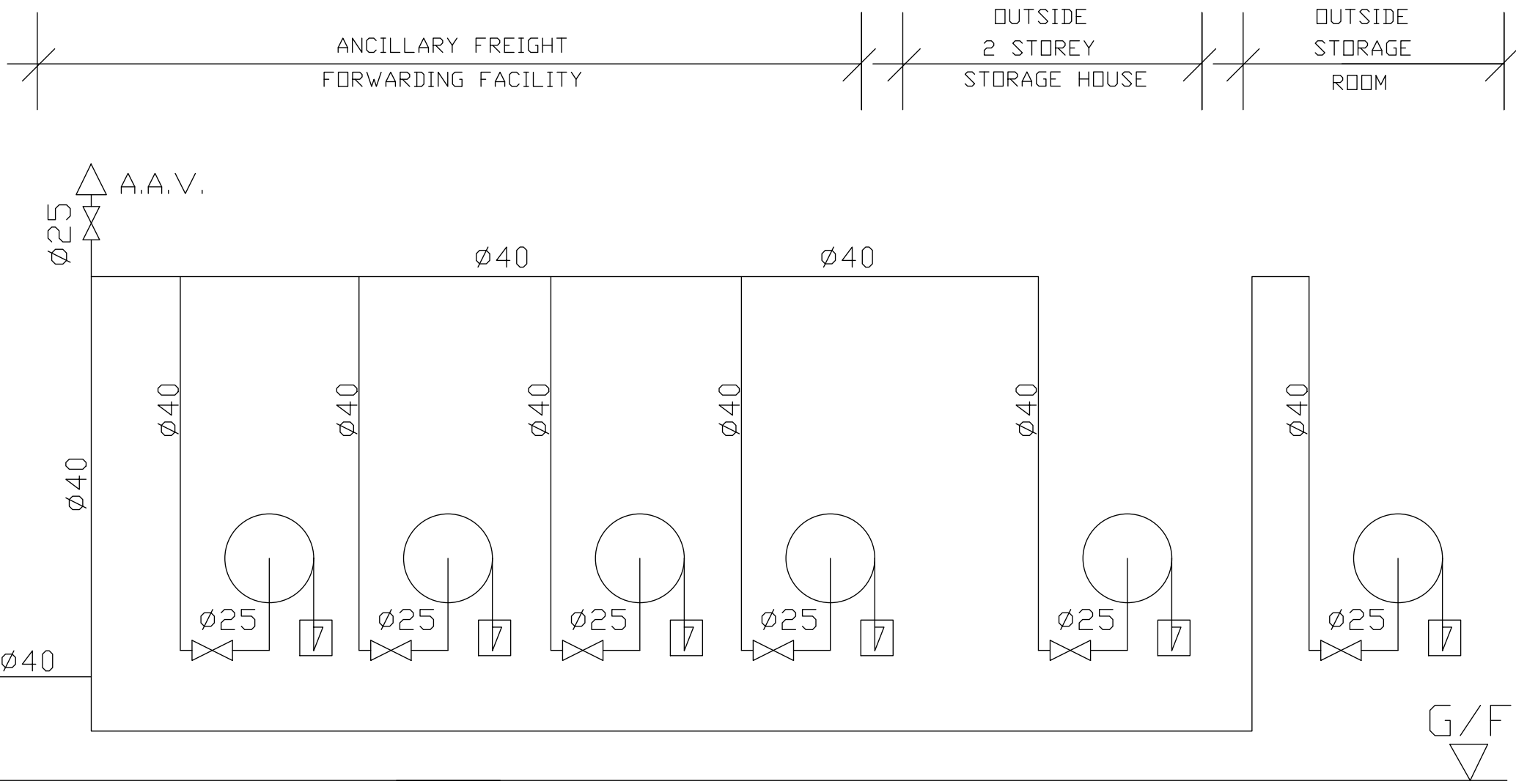
DETAIL 'B' (N.T.S.)



TYPICAL ARRANGEMENT OF HOSE REEL

PRESSURE SWITCH FUNCTION:

- P₁ - PUMP START
- P₂ - DUTY PUMP FAULT & CHANGE OVER
- P₃ - NO FLOW
- P₄ - JOCKEY PUMP START/STOP
- P₅ - 0.5 BAR SYSTEM LOW PRESSURE
- P₆ - 80% SYSTEM LOW PRESSURE



SCHEMATIC DIAGRAM FOR HOSE REEL SYSTEM

C	TBP RESUBMISSION	28-07-2025	HY
B	TBP RESUBMISSION	30-06-2025	HY
A	TBP SUBMISSION	21-02-2025	HY
REV	DESCRIPTION	DATE	BY

FSI CONTRACTOR

East Power Engineering Limited

Flat A, 7/F., Hop Shing Commercial Building
41 Chi Kiang Street, Tokwawan, Kowloon
Fax. : 2394-3772 Tel. : 2397-3238

PROJECT

元朗樓宇: DD129 LOT
3169(pt),3170(pt),3172RP(pt),3173S.ARP(pt),
3173S.B(pt),3173S.C(pt), 3174RP(pt),3175(pt),
3176,3177(pt),3178(pt), 3179(pt),3184(pt),
3185(pt), 3187RP(pt)及毗連政府土地。
擬為臨時建築物料倉庫及附屬工場，物流倉庫，辦公室，保安室及員工飯堂(為期三年)

DRAWING TITLE

SCHEMATIC DIAGRAM FOR HOSE REEL SYSTEM

	INITIAL	DESIGNATION	DATE
DRAWN BY	KH	Eng.T	21-02-2025
DESIGNED BY	KH	Eng.T	21-02-2025
CHECKED BY	CM	PM	21-02-2025
APPROVED BY	-	-	-
PROJECT NO.	10167		
PAPER SIZE	A3	PLOT SCALE	1 : 1
DRAWING NO. EP-10167-FS07			
SCALE	N. T. S.	REVISION	C