

FIRE SERVICES NOTES:

1. HOSE REEL SYSTEM

- 1.1 HOSE REEL SHALL BE PROVIDED AT POSITIONS OF THE WAREHOUSE 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 TO BE PROVIDED FOR THE STRUCTURE B5 AS INDICATED ON PLAN.
- 1.4 TWO HOSE REEL PUMPS (ONE DUTY & ONE STANDBY) SHALL TO BE PROVIDED AT FS PUMP ROOM AT STRUCTURE B5.
- 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 UNDERGROUND 95,000L 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, SPRINKLER INLET AND SPRINKLER CONTROL VALVE GROUP SHALL BE AS INDICATED ON PLANS AT THE FS PUMP ROOM ON G/F.

2.3 ALL INSTALLED SPRINKLER SHOULD BE CONVENTIONAL TYPE AND THE TEMPERATURE RATING OF SPRINKLER HEAD SHALL BE 68°C UNLESS OTHERWISE SPECIFIED.

2.4 ALL SPRINKLER PIPE SIZE SHOULD BE Ø32MM UNLESS SPECIFY.

2.5 STORAGE BLOCK SHOULD BE SEPARATED BY AISLES NO LESS THAN 2.4M WIDE.

2.6 THE MAXIMUM STORAGE AREA SHALL BE 50m² FOR ANY SINGLE BLOCK.

2.7 TYPE OF STORAGE METHOD FOR THOSE WAREHOUSES ARE AS FOLLOWS:

i) STORAGE CATEGDRY : 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 AND BS EN 1838:2013 AND FSD CIRCULAR LETTER 5/2021.

4.2 EMERGENCY LIGHTING SHALL BE PROVIDED THROUGHOUT THOSE STRUCTURES B1, B2, B3, B4 & B5 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

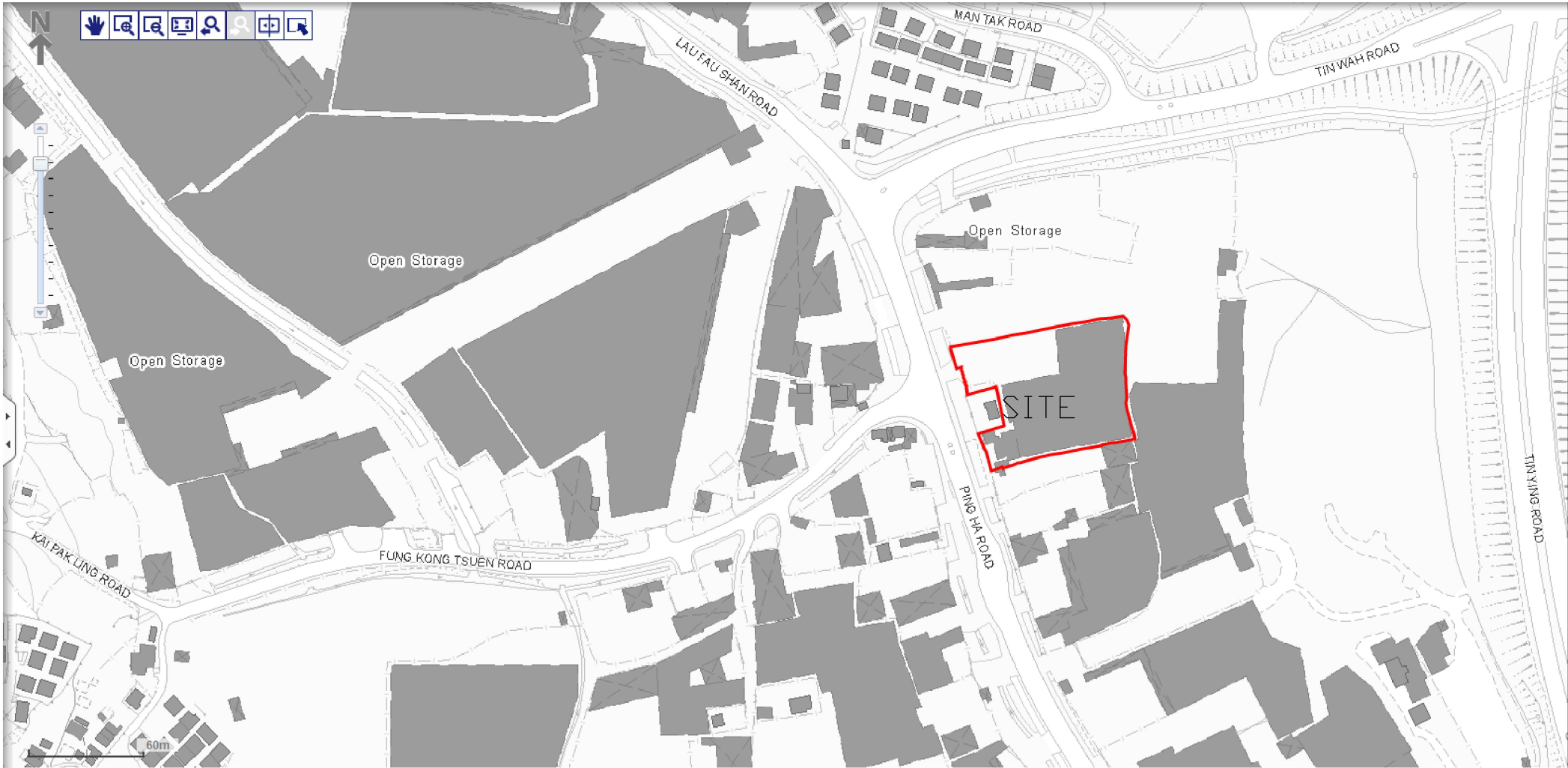
7.1 PORTABLE FIRE EXTINGUISHER WITH SPECIFIED TYPE AND CAPACITY TO BE PROVIDED AT LOCATIONS AS INDICATED ON PLANS.

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
CO <sub>2</sub>	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

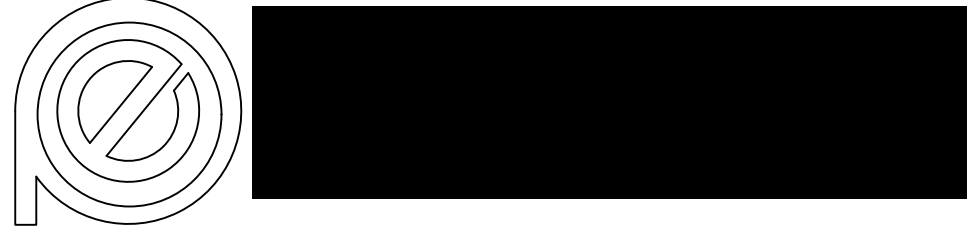
DRAWING LIST

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

A	TBP SUBMISSION	21-02-2025	HY
REV	DESCRIPTION	DATE	BY

FSI CONTRACTOR

East Power Engineering Limited



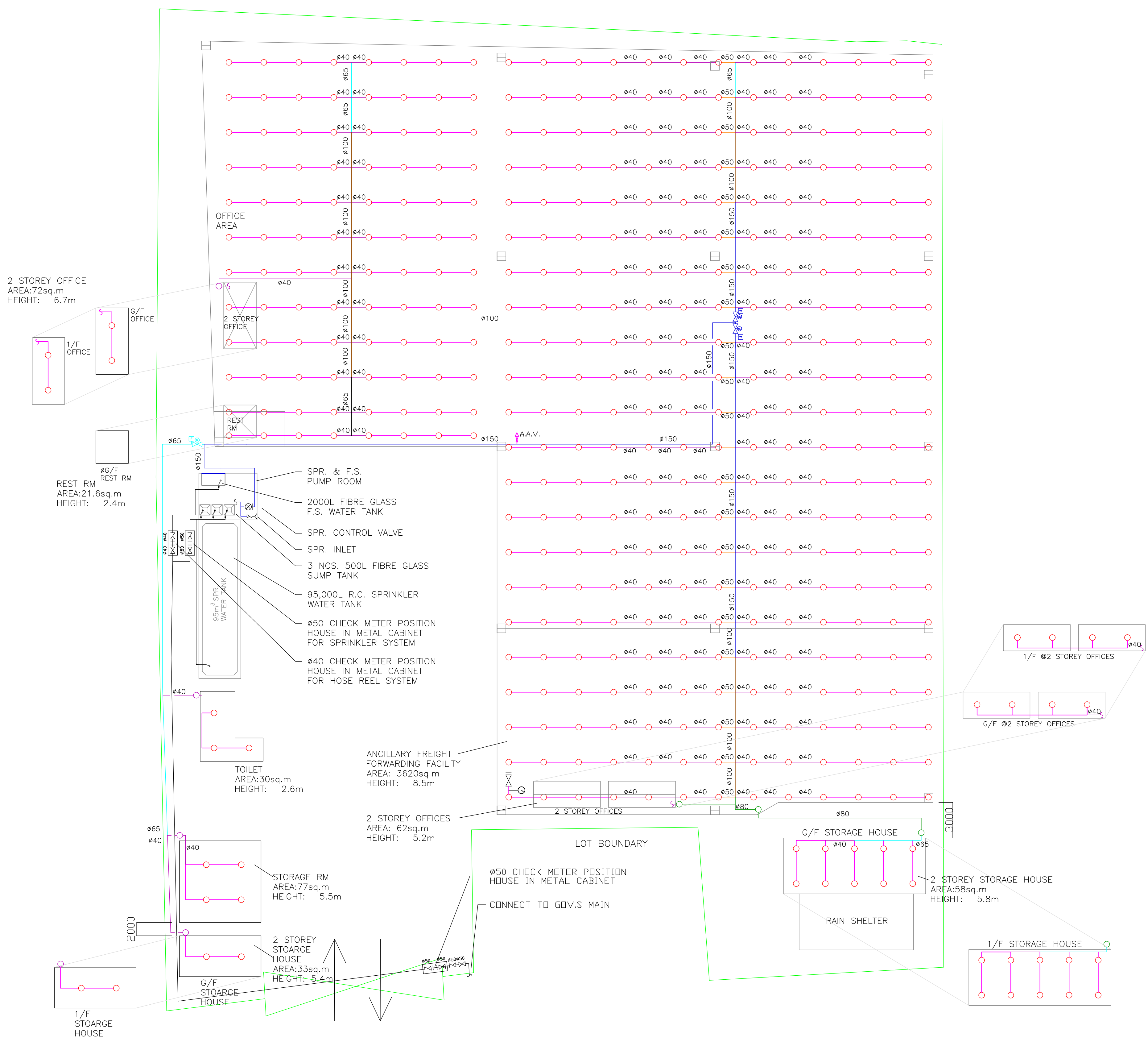
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元朗慶村: DD129 LOT  
3169(pt), 3170(pt), 3172RP(pt), 3173S.ARP(pt),  
3173S.B(pt), 3173S.C(pt), 3174RP(pt), 3175(pt),  
3176, 3177(pt), 3178(pt), 3179(pt), 3184(pt),  
3185(pt), 3187RP(pt)及毗連政府土地。  
擬為臨時建築機械零件倉庫及附屬工場, 物流倉庫, 辦公室, 保安室及員工飯堂(為期三年)

DRAWING TITLE

FS NOTES, LEGEND, ABBREVIATIONS AND DRAWING LIST


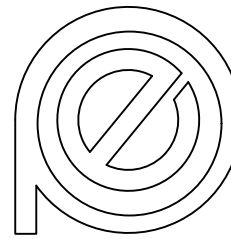
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DESIGNED BY	KH	Eng.T	21-02-2025
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DRAWING NO. EP-10167-FS01			
SCALE	N. T. S.	REVISION	D



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PROJECT

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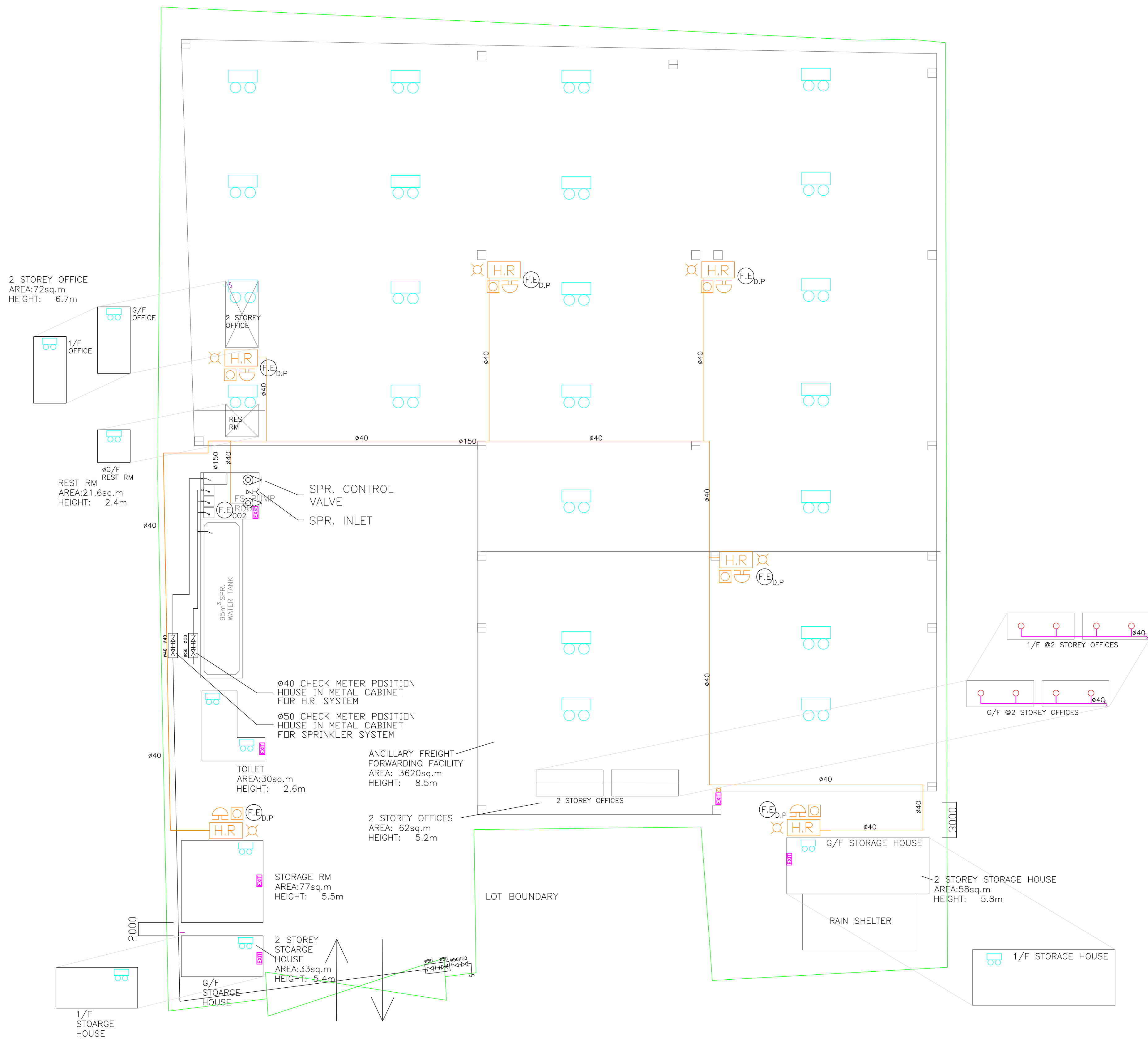
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DRAWING TITLE

PROPOSED SPRINKLER SYSTEM LAYOUT PLAN

	INITIAL	DESIGNATION	DATE
DRAWN BY	KH	Eng.T	21-02-2025
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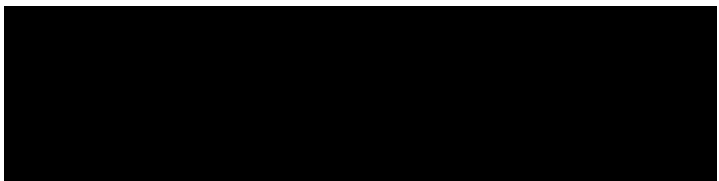
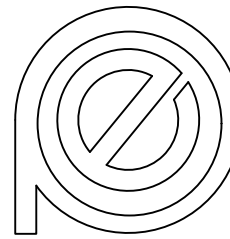




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PROJECT

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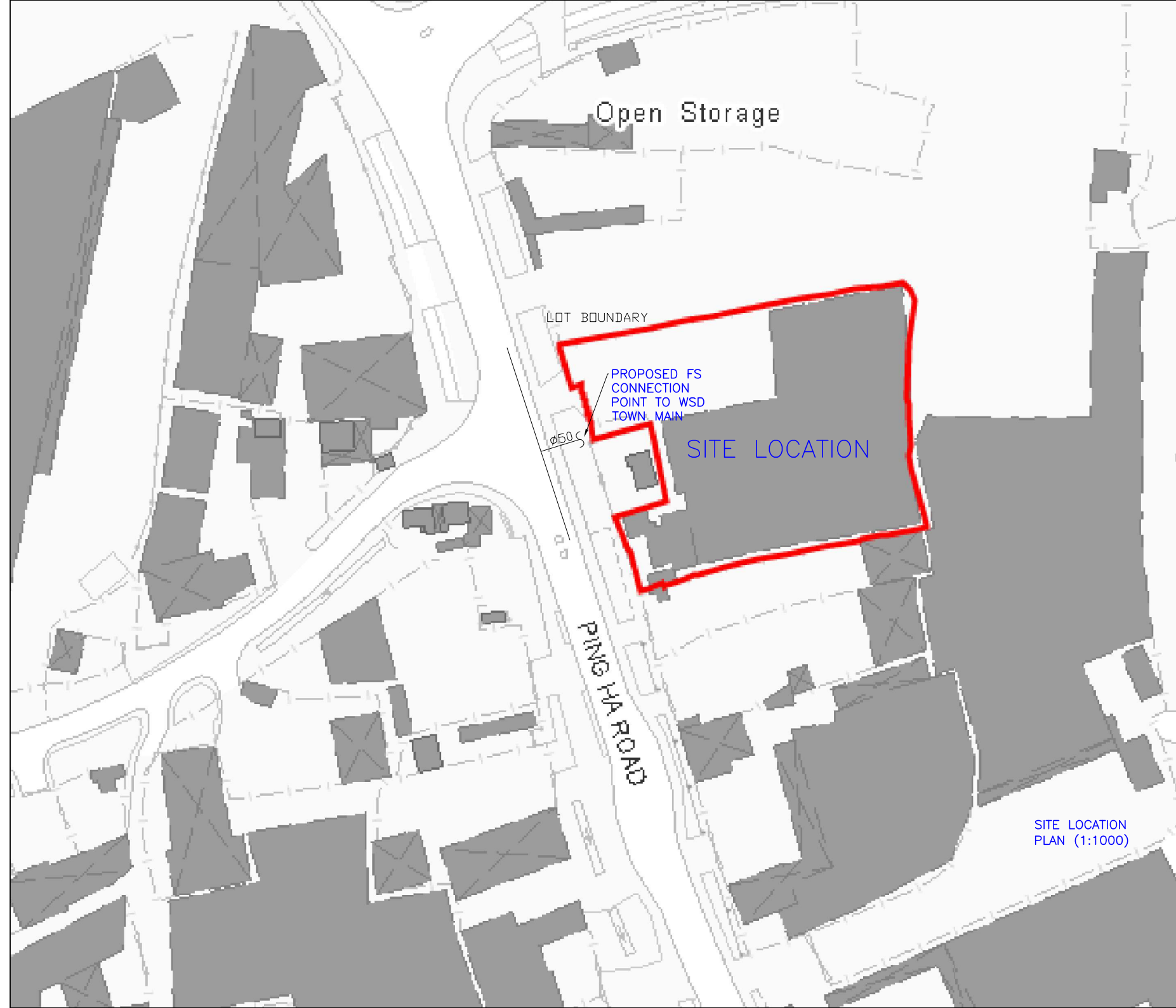
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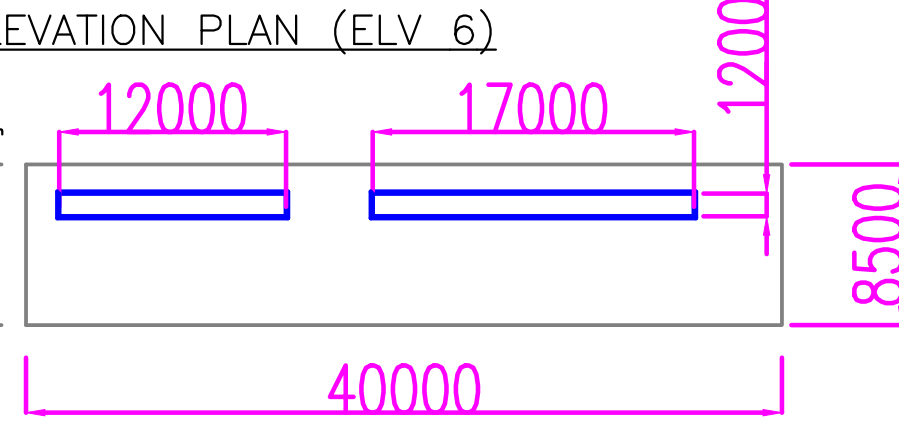
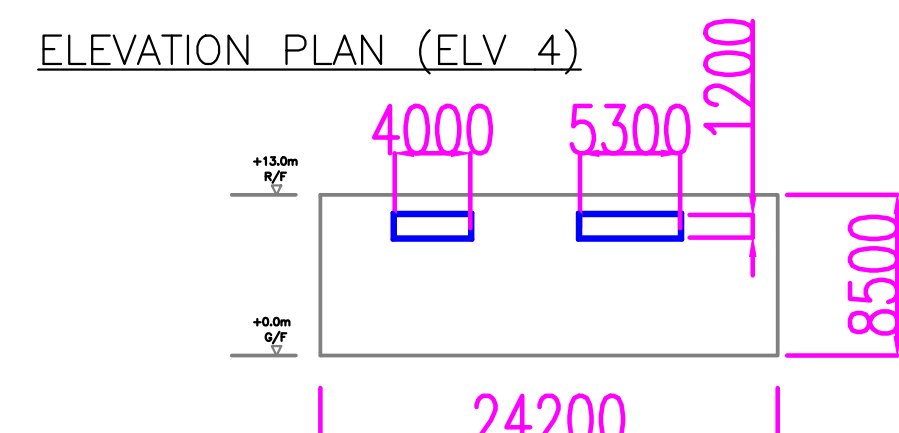
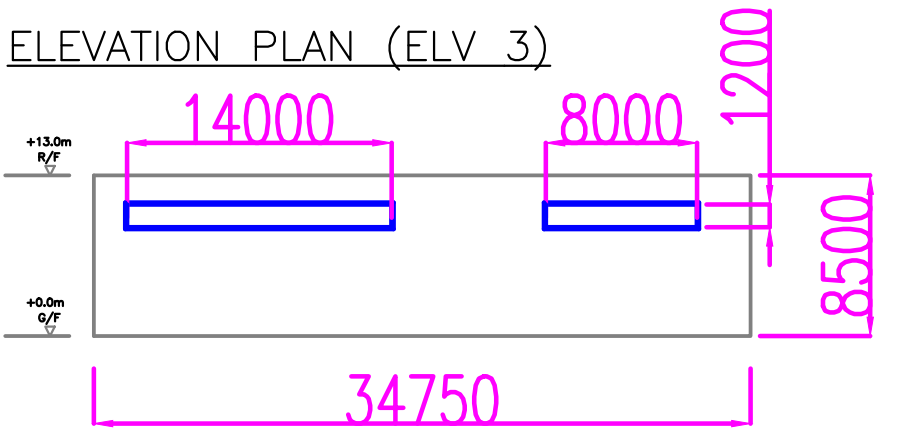
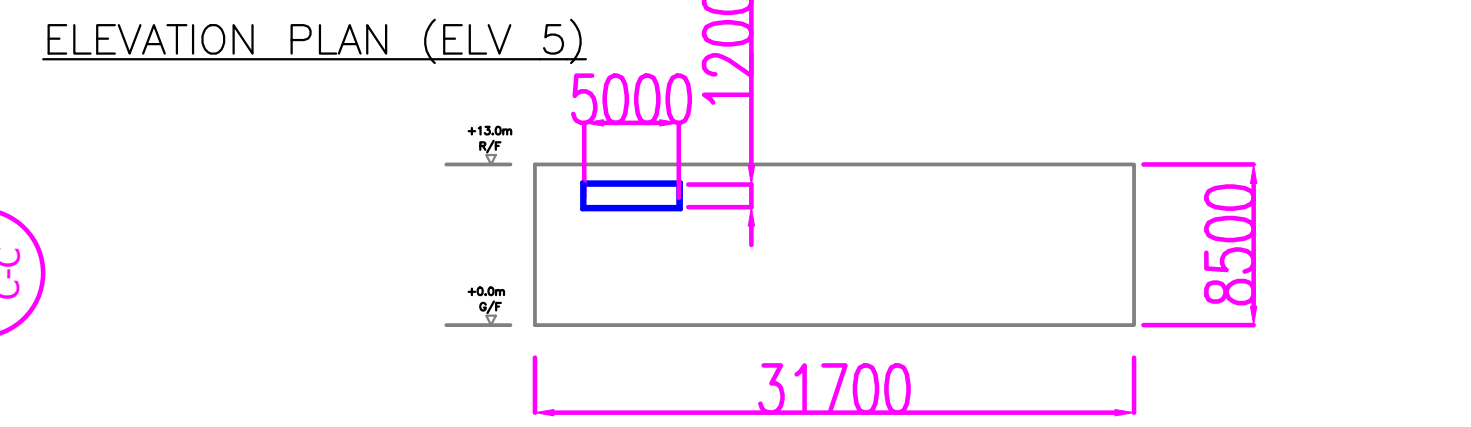
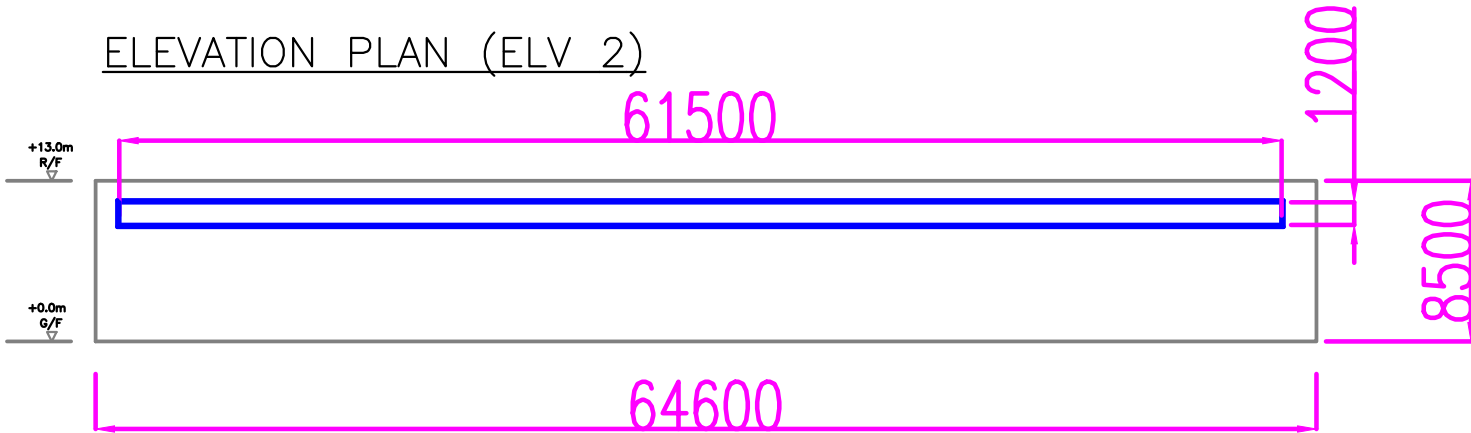
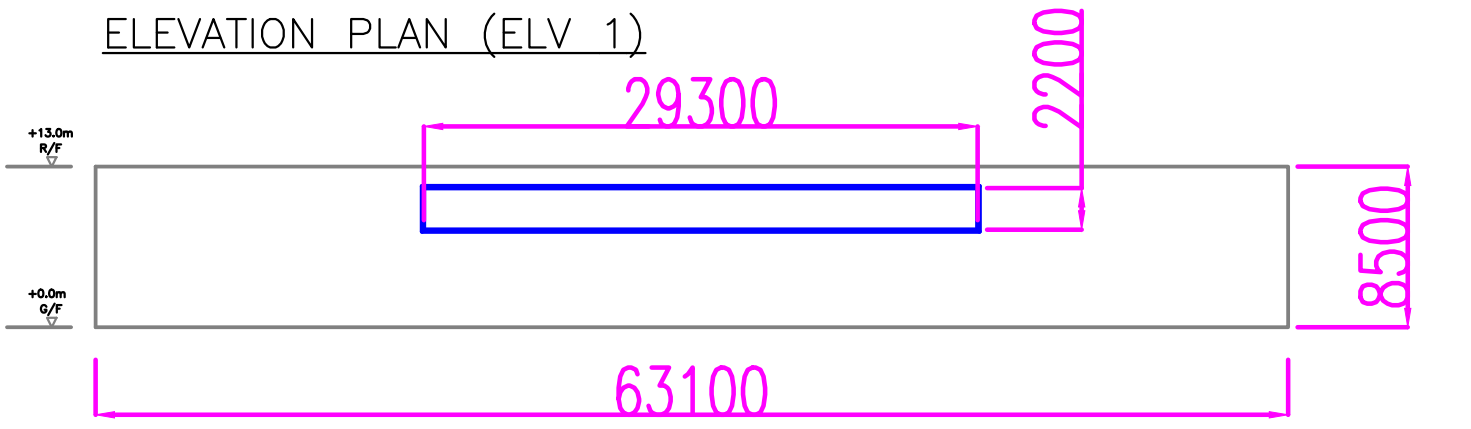
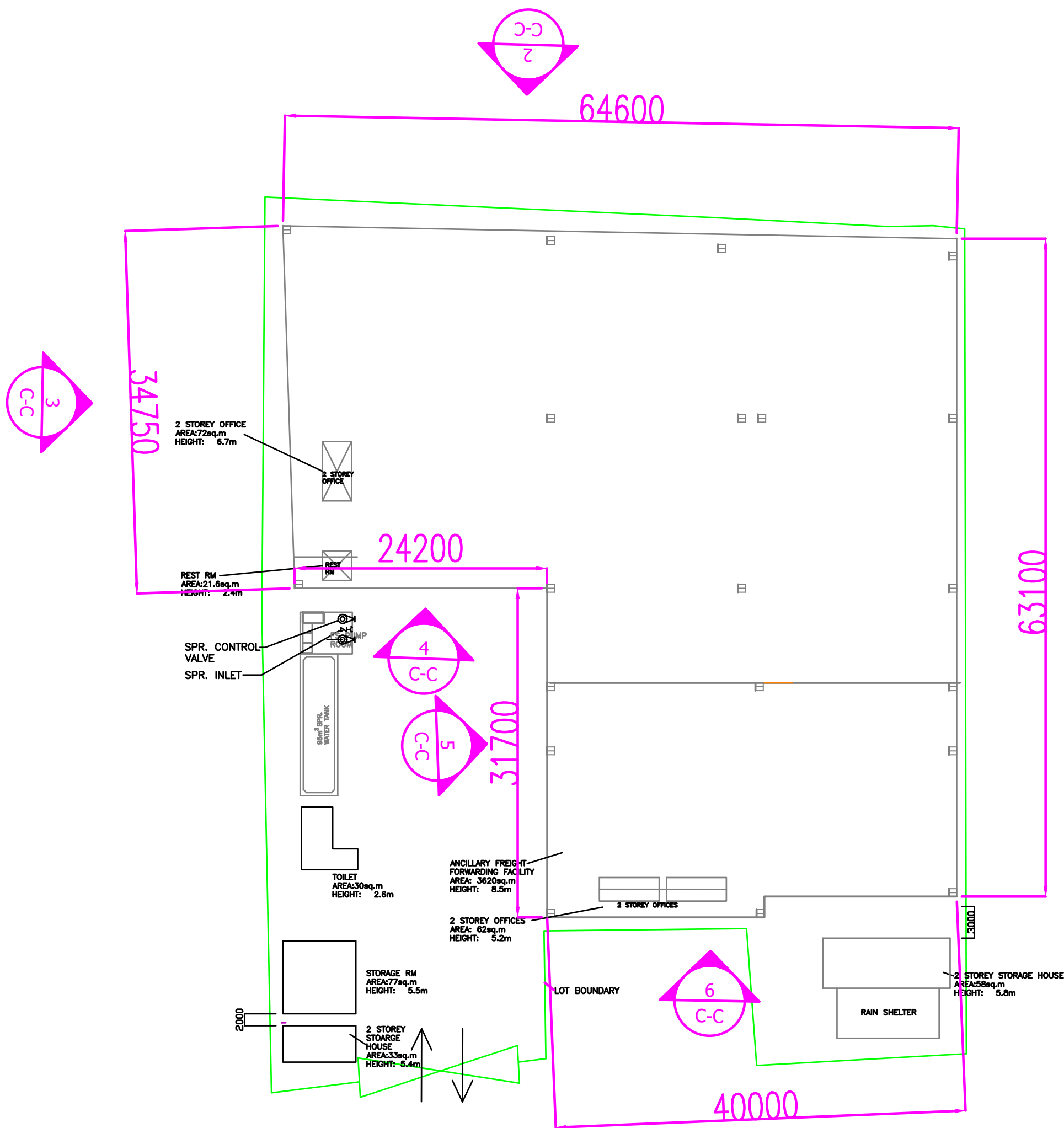
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FSI CONTRACTOR			
East Power Engineering Limited			
			
PROJECT			
元朗廠址：DD129 LOT			
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DRAWING TITLE			
SITE BLOCK PLAN			
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EP-10167-FS04			
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OPENABLE 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	$3620 \times 6.25\% = 226.25$	REFER TO ELEVATION 1 = $29.3 \times 2.4 = 70.32$ REFER TO ELEVATION 2 = $61.5 \times 1.2 = 73.8$ REFER TO ELEVATION 3 = $14.0 \times 1.2 = 16.8$ = $8.0 \times 1.2 = 9.6$ REFER TO ELEVATION 4 = $4.0 \times 1.2 = 4.8$ = $5.3 \times 1.2 = 6.36$ REFER TO ELEVATION 5 = $5.0 \times 1.2 = 6.0$ REFER TO ELEVATION 6 = $12.0 \times 1.2 = 14.4$ = $17.0 \times 1.2 = 20.4$	TOTAL = $234.48 > 226.25$


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PROJECT

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DRAWING TITLE

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