

DISCLAIMER

1. THE HOSE REEL SYSTEM ILLUSTRATED IN THIS SET OF SAMPLE DRAWINGS IS BASED ON A TARGET COMPOSITE BUILDING OF SIX STOREYS OR BELOW OR LESS THAN 20m IN HEIGHT WITH ONE OF THE MAJOR FACADES ACCESSIBLE BY FIRE APPLIANCES VIA THE EMERGENCY VEHICULAR ACCESS IN CONNECTION WITH THE ANNOUNCEMENT OF FSD CIRCULAR LETTER NO. 5/2016.
2. THE SAMPLE DRAWINGS ARE AIMED AT PROVIDING GENERAL REFERENCE ON THE DRAWING FORMAT OF FSI/314C SUBMISSION UNDER THE FIRE SAFETY (BUILDINGS) ORDINANCE (CAP. 572), AND ARE NOT INTENDED FOR STIPULATING THE REQUIRED PROVISIONS/ DESIGN OF FIRE SAFETY IMPROVEMENT WORKS WHICH VARY WITH EACH INDIVIDUAL CASE.
3. GIVEN THE NATURE OF THE SAMPLE DRAWINGS MENTIONED-ABOVE, THERE IS NO GUARANTEE THAT THE APPROVAL OF FSI/314C SUBMISSION ADOPTING THE SAMPLE DRAWINGS WILL BE OBTAINED.

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F.S. NOTES:

- ALL FIRE SAFETY IMPROVEMENT WORKS SHALL BE PROVIDED IN ACCORDANCE WITH THE CODE OF PRACTICE FOR MINIMUM FIRE SERVICE INSTALLATIONS AND EQUIPMENT 1994 VERSION.
- A NEW HOSE REEL SYSTEM WITH 500L EFFECTIVE STORAGE CAPACITY FIBRE GLASS F.S. WATER TANK SHALL BE PROVIDED IN ACCORDANCE WITH PARAGRAPH 5.14 OF THE CODE OF PRACTICE FOR MINIMUM FIRE SERVICE INSTALLATIONS AND EQUIPMENT 1994 VERSION.
- THE FIXED FIRE PUMPS SHOULD DELIVER A FLOW OF NOT MORE THAN THE REQUIRED FLOW RATE AS INDICATED IN THE FIXED FIRE PUMP SCHEDULE.
- A MANUAL FIRE ALARM SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH PARAGRAPH 5.11 & 5.14(i)(b) OF THE CODE OF PRACTICE FOR MINIMUM FIRE SERVICE INSTALLATIONS AND EQUIPMENT 1994 VERSION.
- ALL FIRE SERVICE EQUIPMENT SHALL BE ENERGIZED BY PRIMARY AND SECONDARY POWER SUPPLY AND MANAGED BY AUTOMATIC CHANGOVER SWITCH WITH BOTH ELECTRICAL AND MECHANICAL INTERLOCK.
- ALL F.S. PIPEWORK SHOULD BE GALVANIZED STEEL PIPE CONFORMED TO BS 1387 MEDIUM GRADE.
- POWER SUPPLY CABLE FOR FIXED FIRE PUMPS, FIRE ALARM BELLS AND F.S. CONTROL PANEL SHALL BE OF FIRE RESISTING TYPE IN ACCORDANCE WITH THE LATEST FSD CIRCULAR LETTER FOR MINIMUM FIRE RESISTING CABLE REQUIREMENTS FOR FIRE SERVICE INSTALLATIONS.
- THE SIZE AND LOCATION OF WATER CHECK METER FOR F.S. WATER SUPPLY SHALL BE DETERMINED BY WSD.
- THE PLUMBING SYSTEM OF FIRE SERVICE INSTALLATIONS IS SUBJECT TO THE REQUIREMENTS OF WATER AUTHORITY.
- THE ELECTRICAL INSTALLATION WORKS SHALL COMPLY WITH THE ELECTRICITY ORDINANCE AND THE POWER COMPANY'S SUPPLY RULES.
- ALL ASSOCIATED BUILDING WORKS OF FIRE SAFETY IMPROVEMENT WORKS ARE SUBJECT TO THE CONTROL UNDER BUILDING ORDINANCE. APPROVAL AND CONSENT FROM BUILDING AUTHORITY FOR SUCH WORKS (IF ANY) SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF THE BUILDING WORKS, EXCEPT FOR THOSE BUILDING WORKS WHICH ARE UNDER THE CONTROL OF THE MINOR WORKS CONTROL SYSTEM.































Guidance Notes:

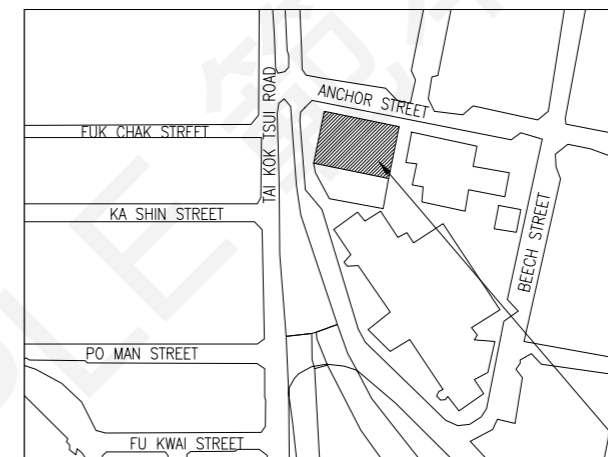
- Colour code shall be aligned with section 3.6.1(d) of FSD Circular Letter No. 4/96.

COLOUR CODE FOR PIPE SIZES

PIPE SIZE	COLOUR CODE	SAMPLE
ø25mm	GREEN	
ø32mm	RED	
ø40mm	PURPLE	
ø50mm	YELLOW	

LEGEND

SYMBOL	DESCRIPTION
	DRAIN VALVE C/W PLUG (N/C)
	GATE VALVE (N/O)
	GATE VALVE (N/C)
	NON-RETURN VALVE
	FLEXIBLE PIPE CONNECTOR
	AUTOMATIC AIR VENT
	CHECK METER POSITION
	HOSE REEL
	FIRE ALARM BELL
	MFA CALL POINT (BREAK GLASS TYPE)
	FIXED FIRE PUMP
	PRESSURE GAUGE
	PRESSURE SWITCH
	PRESSURE SWITCH ASSEMBLY
	F.S. / MFA CONTROL PANEL
	FIXED FIRE PUMP CONTROL PANEL
	PIPE RISER
	FUSED SPUR UNIT
	NEW PIPE / CABLE / EQUIPMENT
	EXISTING PIPE / CABLE / EQUIPMENT
	BALL FLOAT VALVE
	3mm ORIFICE PLATE
	AUTOMATIC CHANGOVER SWITCH C/W ELECTRICAL & MECHANICAL INTERLOCK
	kWh METER
	MCCB / MCB UNIT
	FUSED SWITCH
	ISOLATING SWITCH
	MOTOR STARTER
	FIXED FIRE PUMP MOTOR
	STRAINER



BLOCK PLAN (N.T.S.)

NO. 42 TAI KOK TSUI ROAD

ABBREVIATIONS

RFSIC	REGISTERED FIRE SERVICE INSTALLATIONS CONTRACTOR
FSI	FIRE SERVICE INSTALLATIONS
HR	HOSE REEL
MFA	MANUAL FIRE ALARM
AFFL	ABOVE FINISHED FLOOR LEVEL
H/L	HIGH LEVEL
M/L	MIDDLE LEVEL
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW
N/O	NORMALLY OPEN
N/C	NORMALLY CLOSED
GRP	GLASS REINFORCED POLYESTER
SP	SINGLE POLE
TPN	TRIPLE POLE & NEUTRAL
MCB	MINIATURE CIRCUIT BREAKER
MCCB	MOULDED CASE CIRCUIT BREAKER
C/W	COMPLETED WITH
S.W.	SWITCH
W.L.	WATER LEVEL
M.H.	MANHOLE
O.F.	OVERFLOW
EX.	EXISTING
B.L.	BOUNDARY LINE

SPACE RESERVED FOR
FSD APPROVAL CHOP
Min. (60mm x 45mm)

REV.	DESCRIPTION	DATE
0	1ST SUBMISSION	30.6.2021
A	2ND SUBMISSION	29.10.2021

FSI CONTRACTOR / CONSULTANT

ABC FIRE ENGINEERING
COMPANY LIMITED

ADDRESS: UNIT 01, 10/F.,
XXX YY COMMERCIAL BUILDING,
TAI KOK TSUI, KOWLOON
TEL.: XXXX XXXX

PROJECT TITLE:

FIRE SAFETY IMPROVEMENT
WORKS FOR
NO. 42 TAI KOK TSUI ROAD,
KOWLOON

DRAWING TITLE:
F.S. NOTES, LEGEND,
ABBREVIATIONS, COLOUR CODE
FOR PIPE SIZES &
BLOCK PLAN

DRAWING NO.:	SCALE:
FS-01	N.T.S.

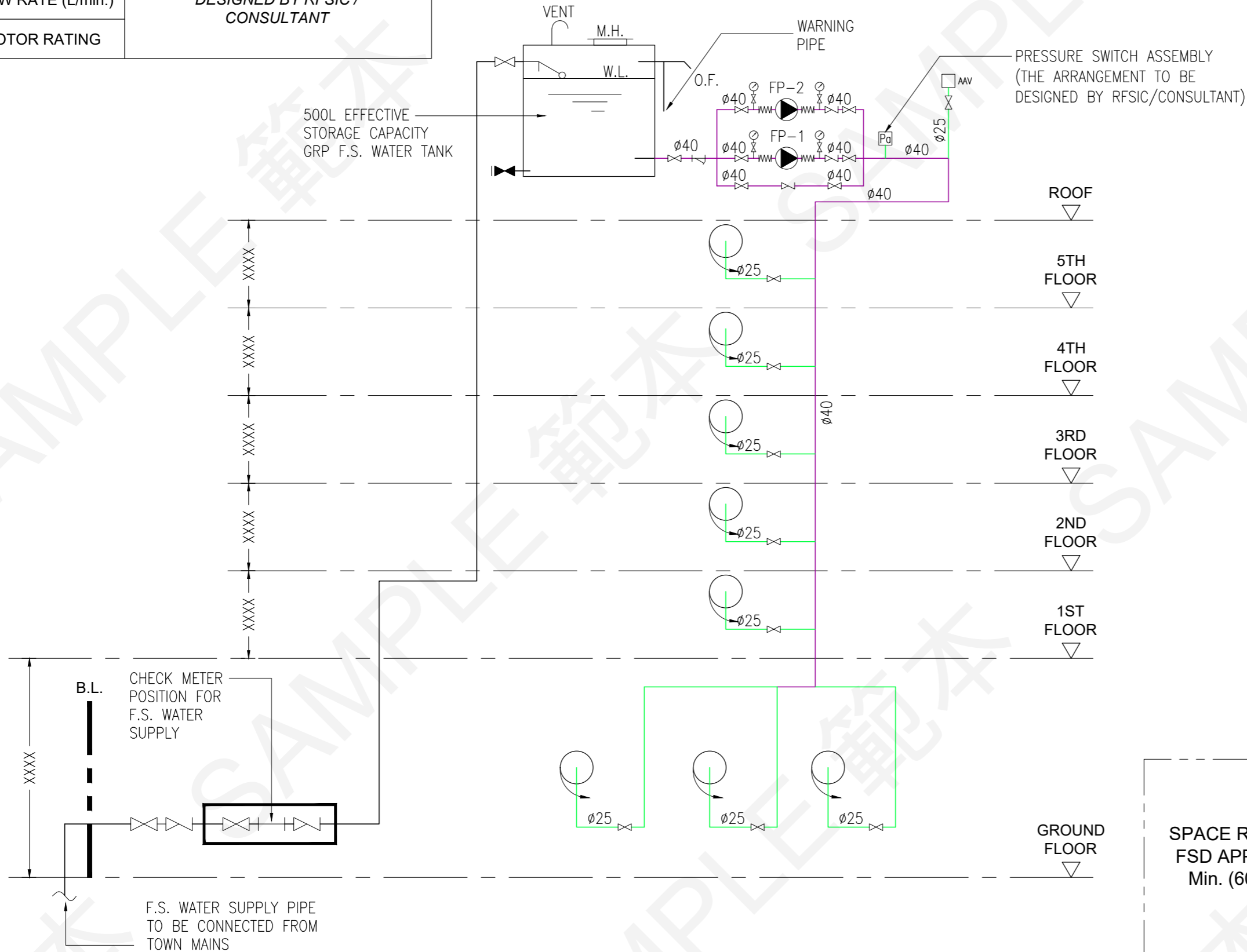
DATE:	REVISION:
29.10.2021	A

FIXED FIRE PUMP SCHEDULE

PUMP DESIGNATION	DUTY PUMP (FP-1)	STANDBY PUMP (FP-2)
PUMP HEAD (BAR)	<i>TECHNICAL DATA TO BE DESIGNED BY RFSIC / CONSULTANT</i>	
FLOW RATE (L/min.)		
MOTOR RATING		

Guidance Notes:

1. Size of F.S. water supply pipe connected from Town Mains and check meter position to be determined by WSD.
2. Size of F.S. water supply pipe, F.S. water tank components to be designed by RFSIC / Consultant.
3. Floor to floor height should be specified according to approved general building plan.
4. Technical data for fixed fire pumps to be designed by RFSIC / Consultant.



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FSD APPROVAL CHOP
Min. (60mm x 45mm)

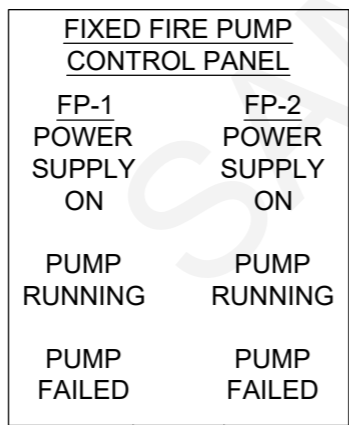
REV.	DESCRIPTION	DATE
0	1ST SUBMISSION	30.6.2021
A	2ND SUBMISSION	29.10.2021

FSI CONTRACTOR / CONSULTANT
ABC FIRE ENGINEERING COMPANY LIMITED
ADDRESS: UNIT 01, 10/F., XXX YY COMMERCIAL BUILDING, TAI KOK TSUI, KOWLOON
TEL.: XXXX XXXX

PROJECT TITLE:
FIRE SAFETY IMPROVEMENT WORKS FOR NO. 42 TAI KOK TSUI ROAD, KOWLOON

DRAWING TITLE:
SCHEMATIC PIPING DIAGRAM FOR HOSE REEL SYSTEM

DRAWING NO.: FS-02	SCALE: N.T.S.
DATE: 29.10.2021	REVISION: A

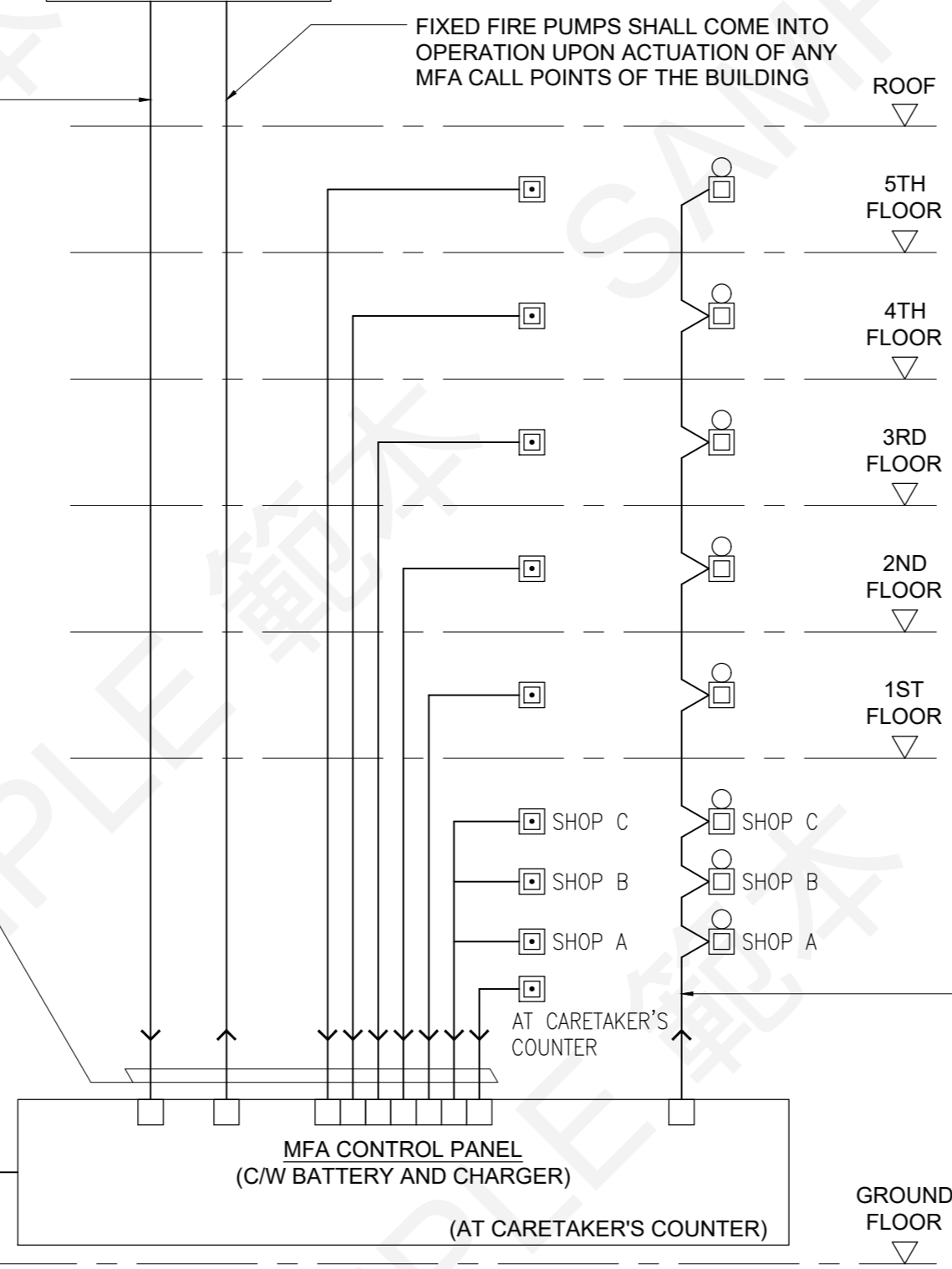


Guidance Notes:

- All power cables / control cables should be specified with a) number of cable; b) cable size; c) number of core; d) types of insulation & e) standard (if applicable)
- The minimum fire resisting cable requirements for fire service installations (FSI) shall refer to the latest FSD Circular Letter.

STATUS OF DUTY AND STANDBY FIXED FIRE PUMPS COMPRISING "POWER SUPPLY ON", "PUMP RUNNING" AND "PUMP FAILED" SHOULD BE REPEATED TO MFA CONTROL PANEL

FIXED FIRE PUMPS SHALL COME INTO OPERATION UPON ACTUATION OF ANY MFA CALL POINTS OF THE BUILDING



SPACE RESERVED FOR FSD APPROVAL CHOP
Min. (60mm x 45mm)

(NOTE 1)

FIRE RESISTING CABLE (NOTE 1 & NOTE 2)

FROM AC 220V SUPPLY WITH SECONDARY POWER SUPPLY SOURCE

MFA CONTROL PANEL (C/W BATTERY AND CHARGER)

(AT CARETAKER'S COUNTER)

FIRE RESISTING CABLE (NOTE 1 & NOTE 2)

REV.	DESCRIPTION	DATE
0	1ST SUBMISSION	30.6.2021
A	2ND SUBMISSION	29.10.2021

FSI CONTRACTOR / CONSULTANT
ABC FIRE ENGINEERING COMPANY LIMITED
ADDRESS: UNIT 01, 10/F., XXX YY COMMERCIAL BUILDING, TAI KOK TSUI, KOWLOON
TEL.: XXXX XXXX

PROJECT TITLE:
FIRE SAFETY IMPROVEMENT WORKS FOR NO. 42 TAI KOK TSUI ROAD, KOWLOON

DRAWING TITLE:
SCHEMATIC CONTROL WIRING DIAGRAM FOR MFA SYSTEM

DRAWING NO.: FS-03
SCALE: N.T.S.

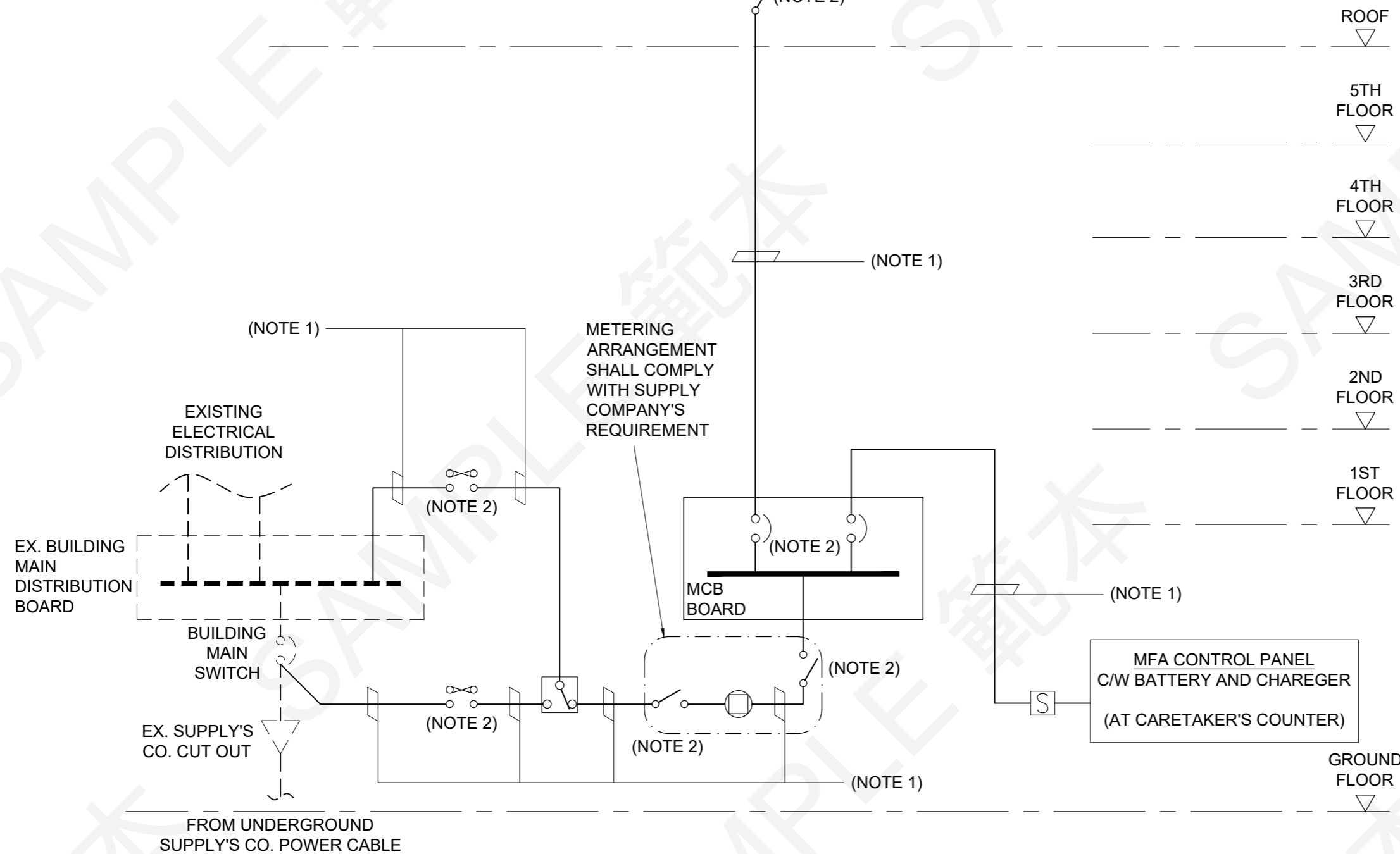
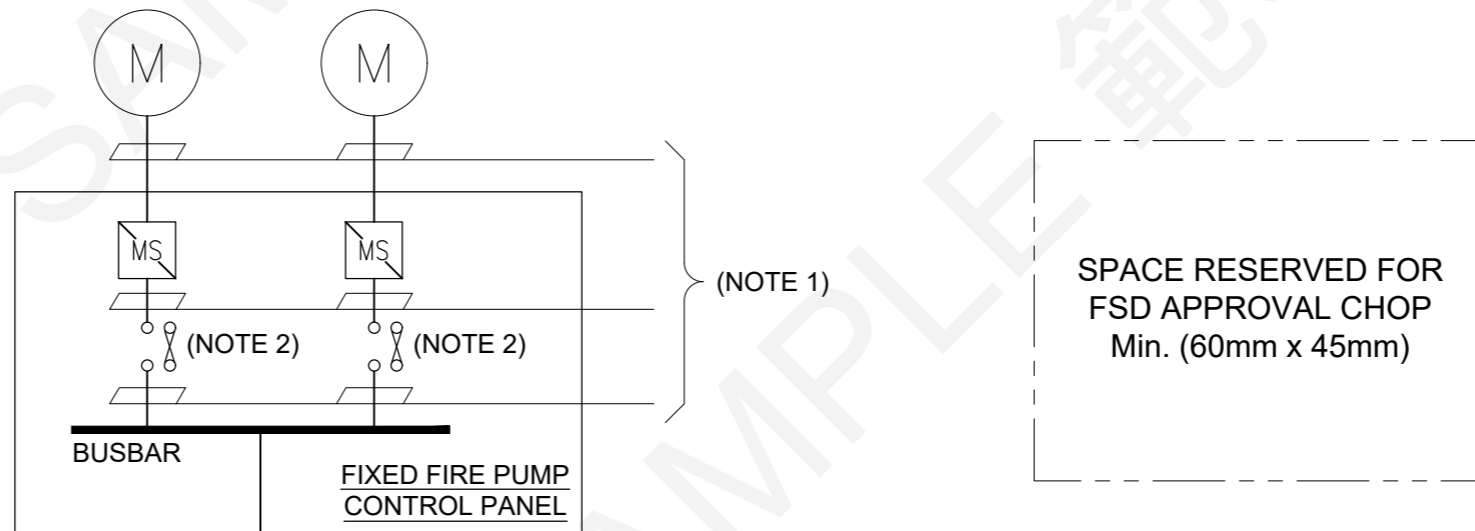
DATE: 29.10.2021
REVISION: A

Guidance Notes:

1. All power supply cables should be of fire resisting type. It should be specified with a) number of cable; b) cable size; c) number of core; d) types of insulation & e) standard of fire resisting cable (if applicable)

2. All electrical gears should be specified with a) current rating; b) single pole / triple pole / triple pole & neutral

DUTY FIXED FIRE PUMP "FP-1" (XX kW) STANDBY FIXED FIRE PUMP "FP-2" (XX kW)



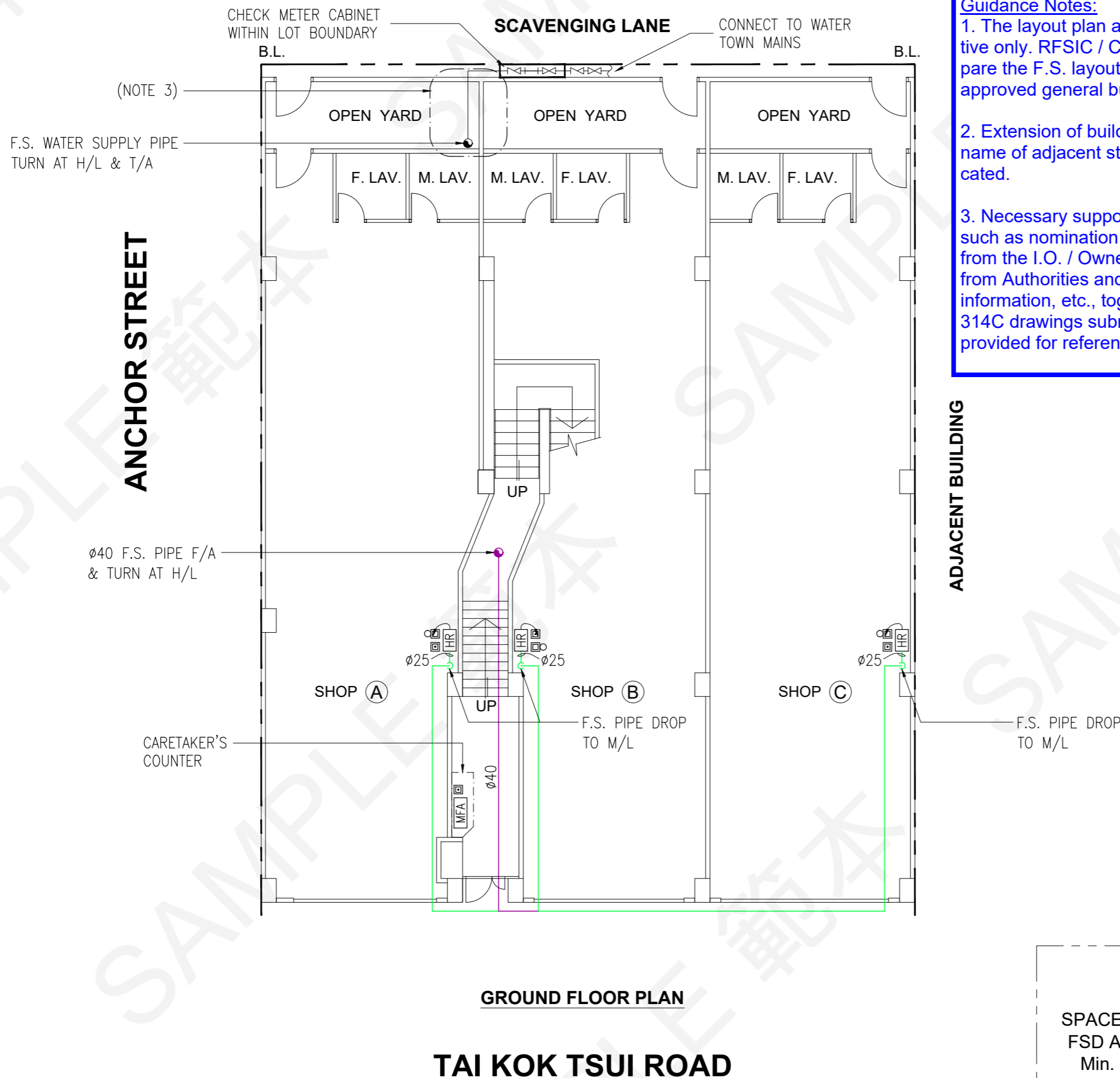
REV.	DESCRIPTION	DATE
0	1ST SUBMISSION	30.6.2021
A	2ND SUBMISSION	29.10.2021

FSI CONTRACTOR / CONSULTANT
 ABC FIRE ENGINEERING COMPANY LIMITED
 ADDRESS: UNIT 01, 10/F., XXX YY COMMERCIAL BUILDING, TAI KOK TSUI, KOWLOON
 TEL.: XXXX XXXX

PROJECT TITLE:
 FIRE SAFETY IMPROVEMENT WORKS FOR NO. 42 TAI KOK TSUI ROAD, KOWLOON

DRAWING TITLE:
 SCHEMATIC POWER SUPPLY WIRING DIAGRAM

DRAWING NO.: FS-04	SCALE: N.T.S.
DATE: 29.10.2021	REVISION: A



Guidance Notes:

1. The layout plan as shown are indicative only. RFSIC / Consultant should prepare the F.S. layout plan based on the approved general building plans.
2. Extension of building boundary and name of adjacent street should be indicated.
3. Necessary supporting documents, such as nomination / consent letter(s) from the I.O. / Owner(s), approved letters from Authorities and any supplementary information, etc., together with the FS/314C drawings submission should be provided for reference.

REV.	DESCRIPTION	DATE
0	1ST SUBMISSION	30.6.2021
A	2ND SUBMISSION	29.10.2021

FSI CONTRACTOR / CONSULTANT

ABC FIRE ENGINEERING COMPANY LIMITED

ADDRESS: UNIT 01, 10/F., XXX YY COMMERCIAL BUILDING, TAI KOK TSUI, KOWLOON
TEL.: XXXX XXXX

PROJECT TITLE:

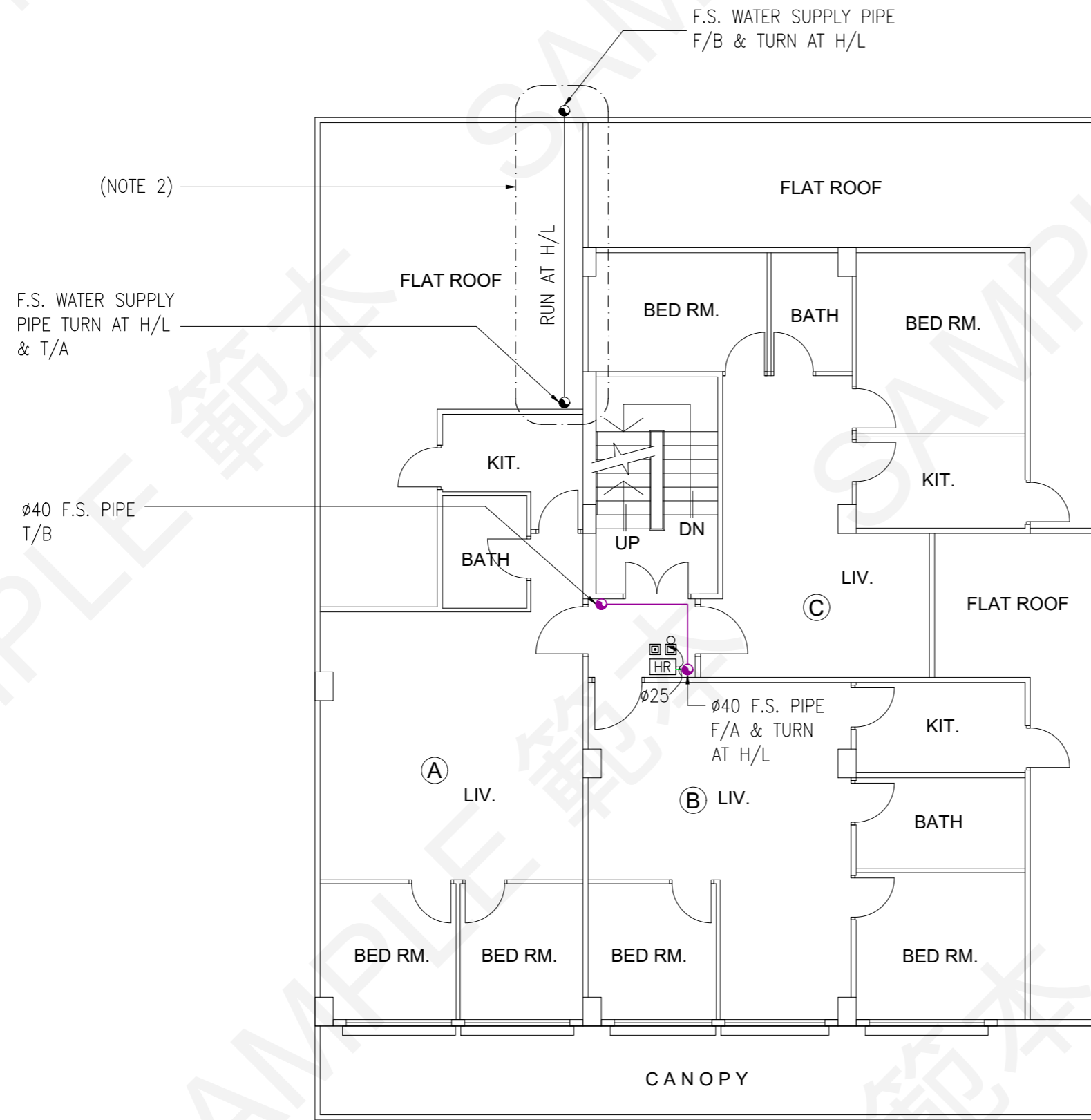
FIRE SAFETY IMPROVEMENT WORKS FOR NO. 42 TAI KOK TSUI ROAD, KOWLOON

DRAWING TITLE:

F.S. LAYOUT PLAN OF GROUND FLOOR

SPACE RESERVED FOR FSD APPROVAL CHOP
Min. (60mm x 45mm)

DRAWING NO.: FS-05	SCALE: 1:100
DATE: 29.10.2021	REVISION: A



1ST FLOOR PLAN

Guidance Notes:
 1. The layout plan as shown are indicative only. RFSIC / Consultant should prepare the F.S. layout plan based on the approved general building plans.
 2. Necessary supporting documents, such as nomination / consent letter(s) from the I.O. / Owner(s), approved letters from Authorities and any supplementary information, etc., together with the FSI/314C drawings submission should be provided for reference.

SPACE RESERVED FOR
 FSD APPROVAL CHOP
 Min. (60mm x 45mm)

REV.	DESCRIPTION	DATE
0	1ST SUBMISSION	30.6.2021
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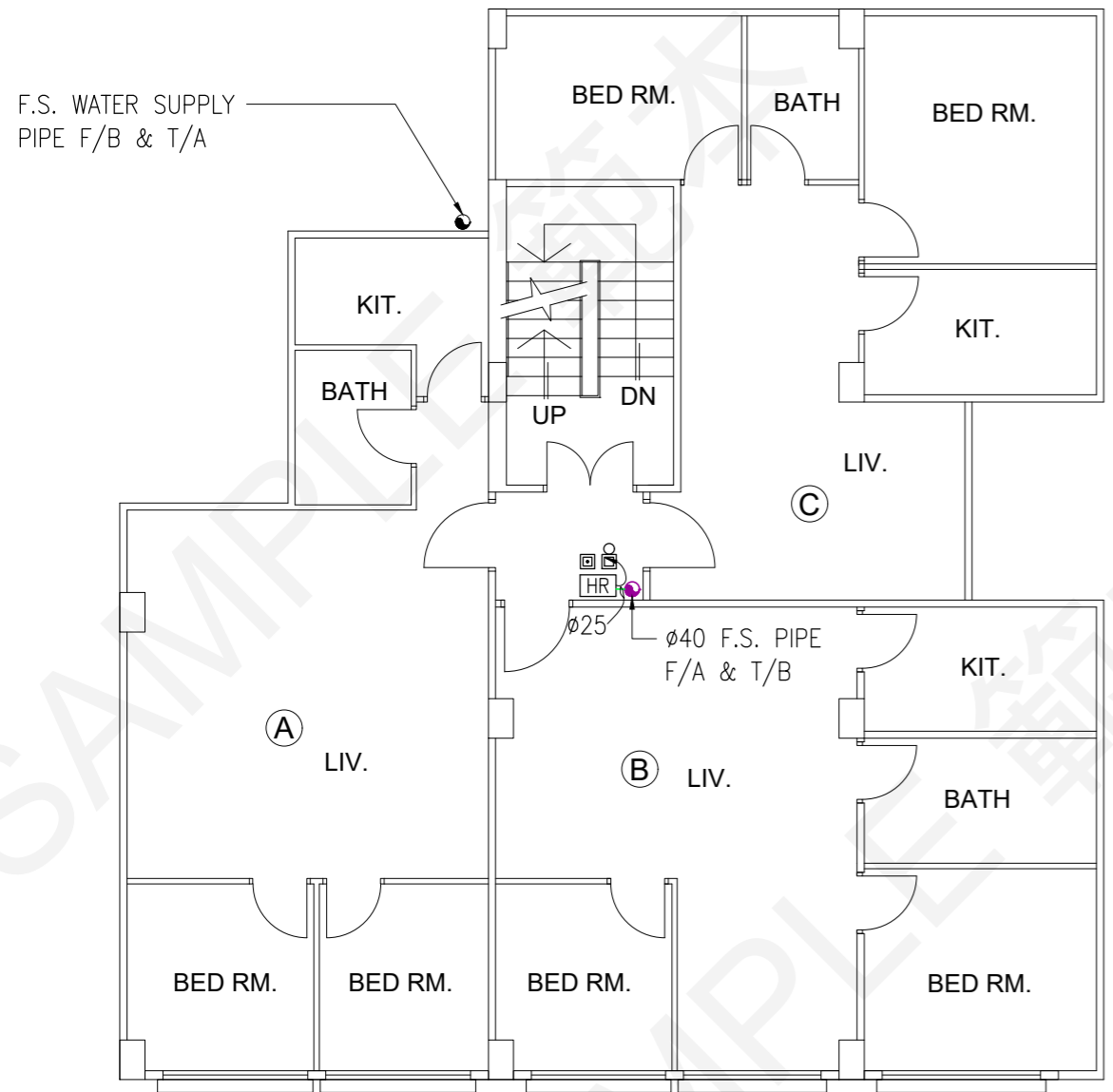
FSI CONTRACTOR / CONSULTANT
 ABC FIRE ENGINEERING COMPANY LIMITED
 ADDRESS: UNIT 01, 10/F.,
 XXX YY COMMERCIAL BUILDING,
 TAI KOK TSUI, KOWLOON
 TEL.: XXXX XXXX

PROJECT TITLE:
 FIRE SAFETY IMPROVEMENT WORKS FOR
 NO. 42 TAI KOK TSUI ROAD,
 KOWLOON

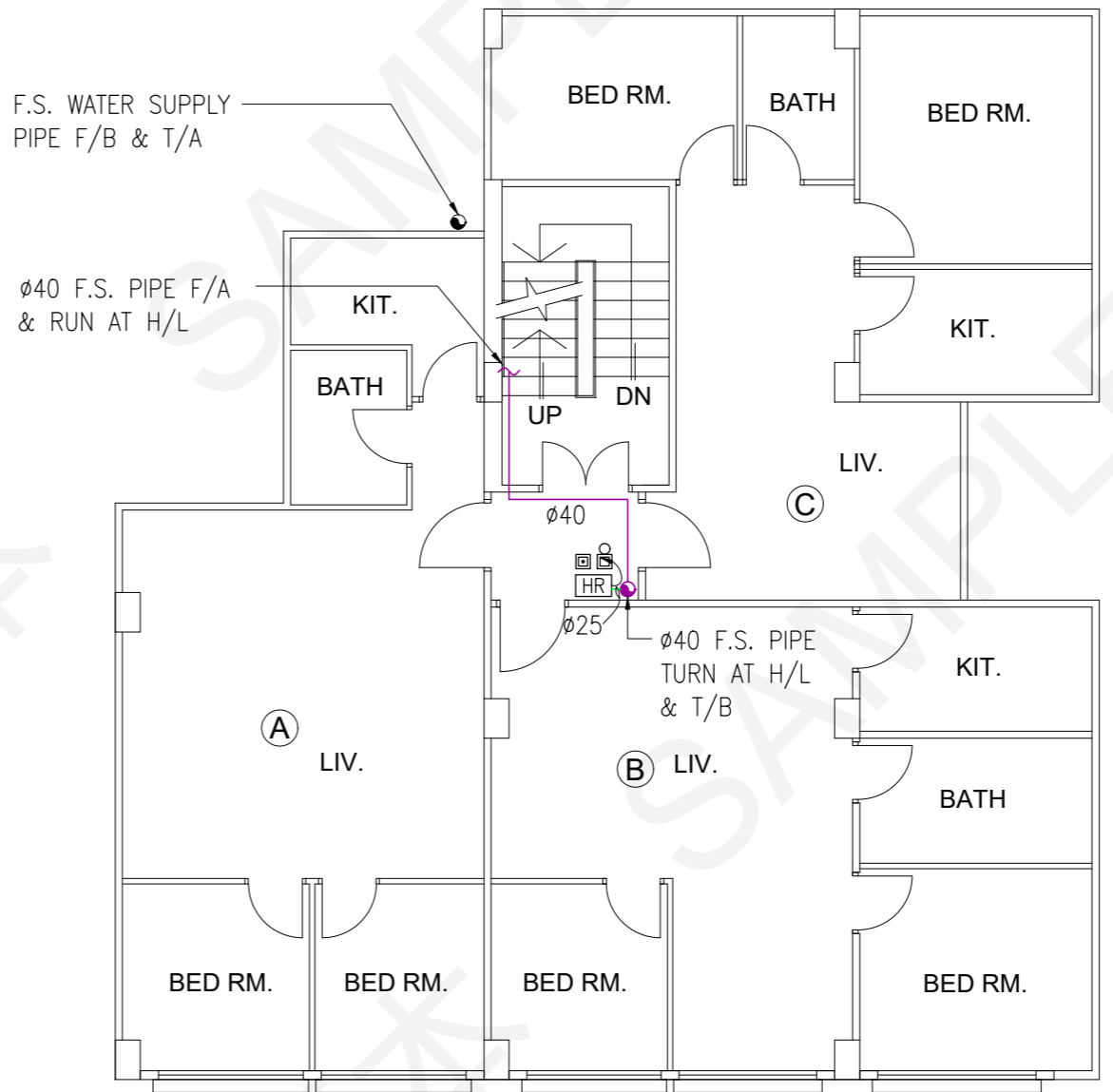
DRAWING TITLE:
 F.S. LAYOUT PLAN OF
 1ST FLOOR

DRAWING NO.: FS-06	SCALE: 1:100
DATE: 29.10.2021	REVISION: A

Guidance Notes:
 1. The layout plan as shown are indicative only. RFSIC / Consultant should prepare the F.S. layout plan based on the approved general building plans.



2ND FLOOR TO 4TH FLOOR PLAN
 (TOTAL: 3 NOS. OF FLOOR)



5TH FLOOR PLAN

SPACE RESERVED FOR
 FSD APPROVAL CHOP
 Min. (60mm x 45mm)

REV.	DESCRIPTION	DATE
0	1ST SUBMISSION	30.6.2021
A	2ND SUBMISSION	29.10.2021

FSI CONTRACTOR / CONSULTANT
 ABC FIRE ENGINEERING
 COMPANY LIMITED
 ADDRESS: UNIT 01, 10/F.,
 XXX YY COMMERCIAL BUILDING,
 TAI KOK TSUI, KOWLOON
 TEL.: XXXX XXXX

PROJECT TITLE:
 FIRE SAFETY IMPROVEMENT
 WORKS FOR
 NO. 42 TAI KOK TSUI ROAD,
 KOWLOON

DRAWING TITLE:
 F.S. LAYOUT PLAN OF
 2ND FLOOR TO 4TH FLOOR
 AND 5TH FLOOR

DRAWING NO.: FS-07
 SCALE: 1:100

DATE: 29.10.2021
 REVISION: A

500L EFFECTIVE STORAGE
CAPACITY GRP F.S.
WATER TANK

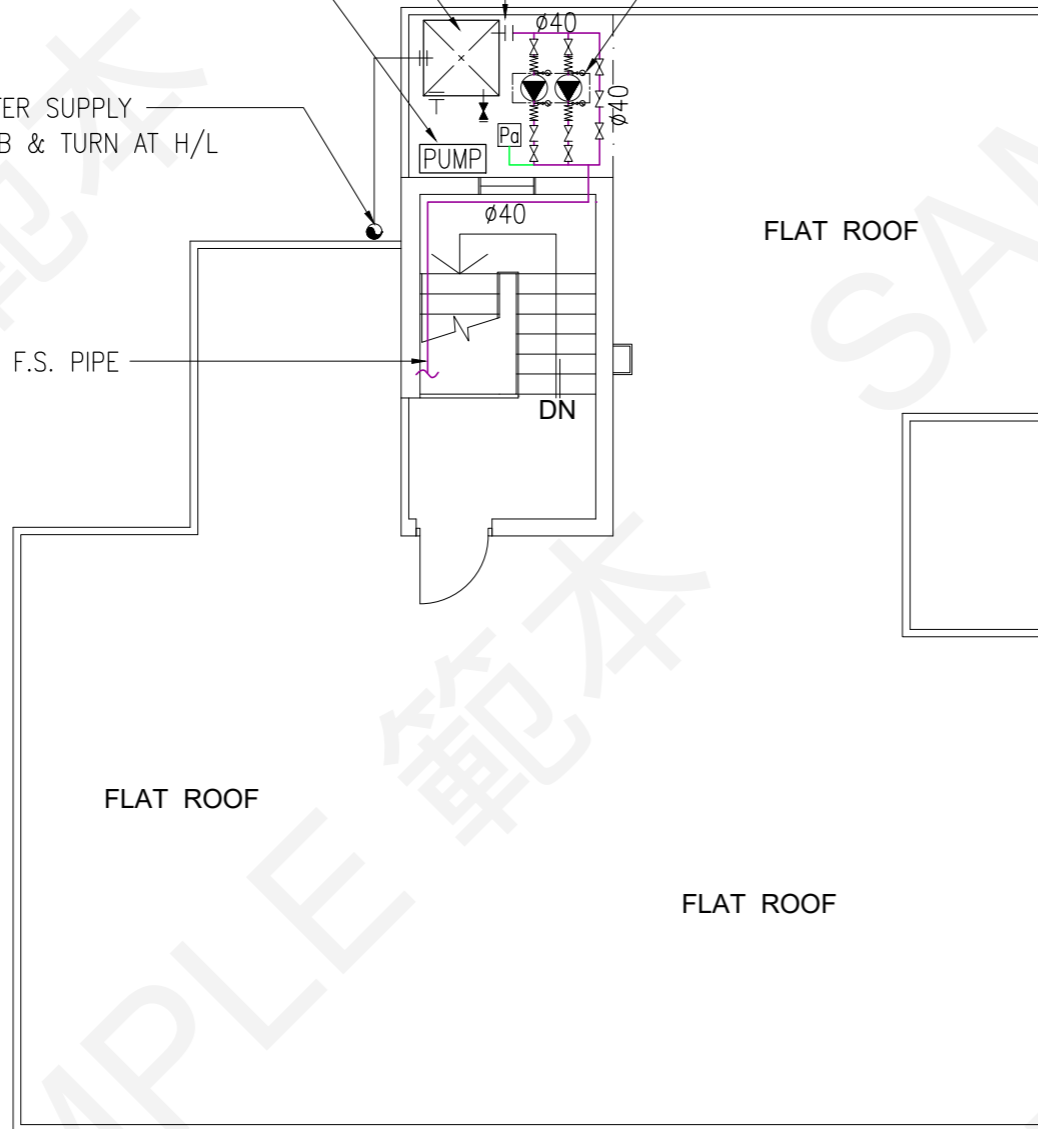
FIXED FIRE PUMP CONTROL
PANEL HOUSED IN
WEATHERPROOF ENCLOSURE

F.S. WATER SUPPLY
PIPE F/B & TURN AT H/L

ø40 F.S. PIPE
T/B

(NOTE 2 &
NOTE 3)

FIXED FIRE PUMP
FP-1 (DUTY)
FP-2 (STANDBY)
SHOULD BE HOUSED IN
SUITABLE ENCLOSURE



ROOF PLAN

Guidance Notes:

1. The layout plan as shown are indicative only. RFSIC / Consultant should prepare the F.S. layout plan based on the approved general building plans.

2. The ownership of the area occupied by the new F.S. water tank and fixed fire pumps should be clarified.

3. Necessary supporting documents, such as nomination / consent letter(s) from the I.O. / Owner(s), approved letters from Authorities and any supplementary information, etc., together with the FSI/314C drawings submission should be provided for reference.

SPACE RESERVED FOR
FSD APPROVAL CHOP
Min. (60mm x 45mm)

REV.	DESCRIPTION	DATE
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FSI CONTRACTOR / -CONSULTANT

ABC FIRE ENGINEERING
COMPANY LIMITED

ADDRESS: UNIT 01, 10/F.,
XXX YYY COMMERCIAL BUILDING,
TAI KOK TSUI, KOWLOON
TEL.: XXXX XXXX

PROJECT TITLE:

FIRE SAFETY IMPROVEMENT
WORKS FOR
NO. 42 TAI KOK TSUI ROAD,
KOWLOON

DRAWING TITLE:

F.S. LAYOUT PLAN OF ROOF

DRAWING NO.:	SCALE:
FS-08	1:100

DATE:	REVISION:
29.10.2021	A