F.S. NOTES:

1. GENERAL

1.1 FIRE SERVICE INSTALLATIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE CODES OF PRACTICE FOR MINIMUM FIRE SERVICE INSTALLATIONS AND EQUIPMENT AND INSPECTION, TESTING AND MAINTENANCE OF INSTALLATIONS AND EQUIPMENT 2022 (COP 2022), FSD CIRCULAR LETTERS AND THE HONG KONG WATERWORKS STANDARD REQUIREMENTS.

1.2 ALL TUBES AND FITTINGS SHALL BE G.M.S. TO BS1387 MEDIUM GRADE WHERE PIPEWORK UP TO ø150mm.

1.3 ALL TUBES AND FITTINGS SHALL BE DUCTILE IRON TO BS EN545 K12 WHERE PIPEWORK ABOVE ø150mm.

1.4 ALL DRAIN PIPES SHALL BE DISCHARGED TO A CONSPICUOUS POSITION WITHOUT THE POSSIBILITY OF BEING SUBMERGED.

1.5 ALL PUDDLE FLANGES SHALL BE MADE OF DUCTILE IRON

1.6 THE AGGREGATE AREA OF OPENABLE WINDOWS NOT LESS THAN 6.25% OF THE FLOOR AREA OF THE STRUCTURE

1.7 SMOKE EXTRACTION SYSTEM NOT TO BE PROVIDED.

2. HOSE REEL SYSTEM

2.1 NEW FIRE HOSE REEL SHALL BE PROVIDED AS INDICATED ON PLAN TO ENSURE THAT EVERY PART OF THE BUILDING CAN BE REACHED BY A LENGTH OF NOT MORE THAN 30m HOSE REEL TUBING.

2.2 THE WATER SUPPLY FOR HOSE REEL SYSTEM WILL BE FED FROM A NEW 2m³ F.S. FIBREGLASS WATER TANK VIA TWO HOSE REEL PUMPS (DUTY/ STANDBY) LOCATED INSIDE FS PUMP ROOM AT EXTERNAL AREA.

2.3 HOSE REEL PUMPS SHALL BE STARTED BY ACTUATION OF ANY BREAKGLASS UNIT FITTED ASIDE EACH HOSE REEL SETS

2.4 ALL FIRE HOSE REEL OUTLETS SHOULD BE HOUSED IN GLASS FRONTED CABINET SECURED UNDER LOCK & KEY.

2.5 ALL FIRE HOSE REEL SHOULD BE PROVIDED WITH FSD APPROVED TYPE INSTRUCTION PLATE & WSD WARNING PLATE

2.6 SECONDARY ELECTRICITY SUPPLY DIRECTLY TEE OFF BEFORE CLP'S INCOMING MAIN SWITCH SHALL BE PROVIDED FOR THE FS PUMPS.

3. AUTOMATIC SPRINKLER SYSTEM

3.1 NEW AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH LPC RULES FOR AUTOMATIC SPRINKLER INSTALLATIONS INCORPORATING BS EN 12845: 2015 (INCLUDING TECHNICAL BULLETINS, NOTES, COMMENTARY AND RECOMMENDATIONS) AND FSD CIRCULAR LETTER NO. 5/2020. THE CLASSIFICATION OF THE OCCUPANCIES WILL BE ORDINARY HAZARD GROUP III.

3.2 ONE NEW 135m³ SPRINKLER WATER TANK WILL BE PROVIDED AS INDICATED ON PLAN. THE TOWN MAIN WATER SUPPLY WILL BE FED FROM SINGLE END.

3.3 TWO NEW SPRINKLER PUMPS (DUTY/STANDBY) AND ONE JOCKEY PUMP SHALL BE PROVIDED IN FS PUMP ROOM LOCATED AT EXTERNAL AREA.

3.4 NEW SPRINKLER CONTROL VALVE SET AND SPRINKLER INLET SHALL BE PROVIDED AS INDICATED ON PLAN.

3.5 ALL SUBSIDIARY STOP VALVES TO BE ELECTRIC MONITORING TYPE.

3.6 SECONDARY ELECTRICITY SUPPLY DIRECTLY TEE OFF BEFORE CLP'S INCOMING MAIN SWITCH SHALL BE PROVIDED FOR THE SPRINKLER PUMPS.

3.7 THE SPRINKLER SYSTEM DESIGN IS BASED ON THE FOLLOWINGS:
HAZARD CLASS : ORDINARY HAZARD GROUP III
TYPE OF STORAGE : POST-PALLET (ST2)
STORAGE CATEGORY : CATEGORY II
MAXIMUM STORAGE HEIGHT : 3.5m
SPRINKLER PROTECTION : CEILING PROTECTION ONLY

4. FIRE ALARM SYSTEM

4.1 NEW FIRE ALARM SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH BS 5839-1:2017 AND FSD CIRCULAR LETTERS NO. 6/2021.

4.2 NEW BREAKGLASS UNITS AND FIRE ALARM BELLS SHALL BE PROVIDED AT ALL NEW FIRE HOSE REEL POINTS. THE FIRE ALARM INTALLATION WILL BE INTEGRATED WITH THE HOSE REEL SYSTEM.

5. EMERGENCY LIGHTING

5.1 EMERGENCY LIGHTING SHALL BE PROVIDED IN ACCORDANCE WITH "BS 5266-1 :2016 AND BS EN 1838 :2013", AND FSD CIRCULAR LETTERS NO. 4/2021. COVERING ALL AREA. EMERGENCY LIGHTINGS SHALL BE BACKED UP BY BUILT-IN BATTERY AND CAPABLE OF MAINTAINING FUNCTION OF NOT LESS THAN 2 HOURS IN CASE OF POWER FAILURE

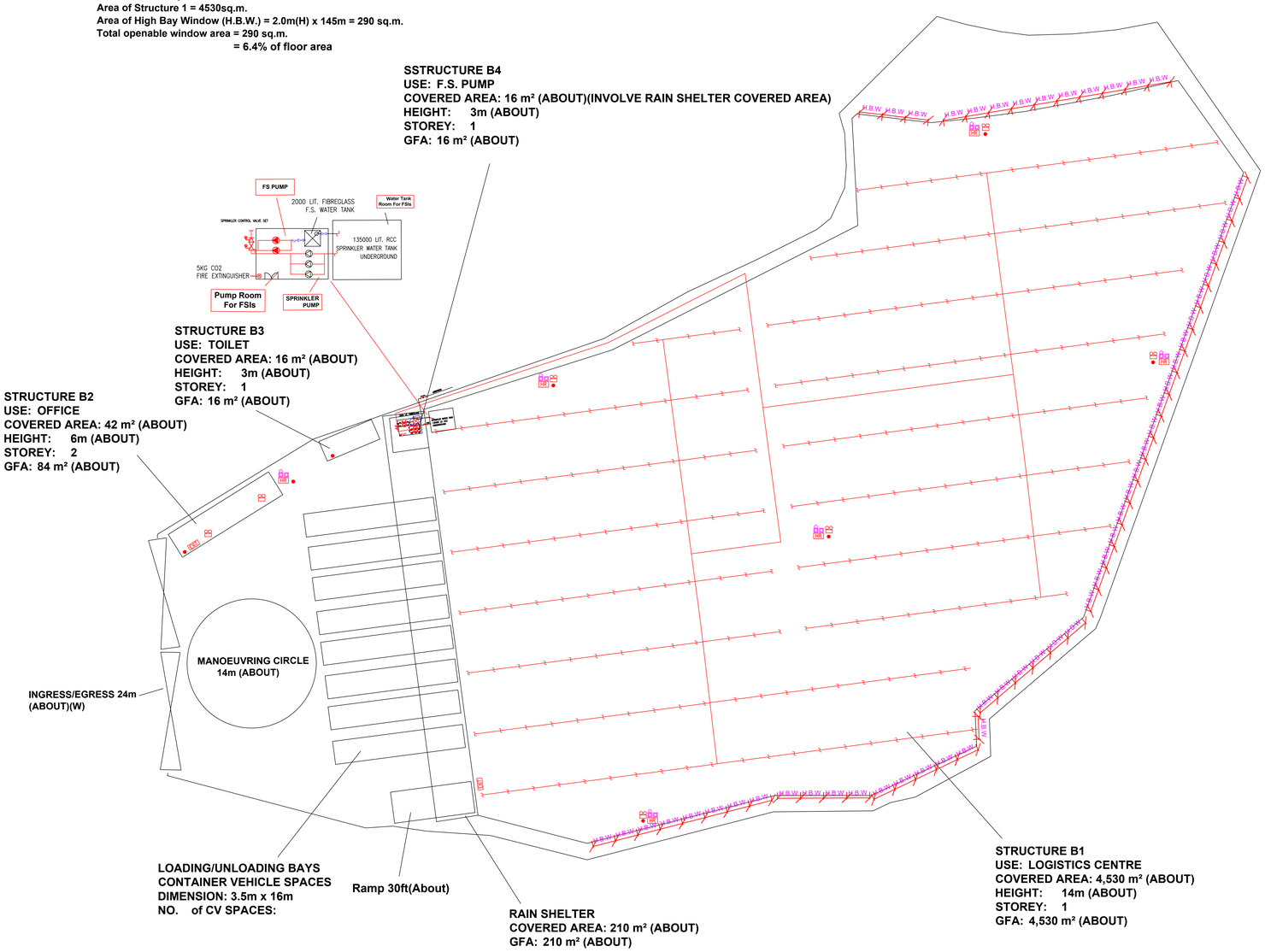
6. EXIT SIGN

6.1 ALL EXIT SIGNS/DIRECTIONAL EXIT SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH "BS 5266-1 :2016 AND FSD CIRCULAR LETTER NO. 5/2008, FOR THE BUILDING. EXIT SIGNS/DIRECTIONAL EXIT SIGNS SHALL BE BACKED UP BY BUILT-IN BATTERY AND CAPABLE OF MAINTAINING FUNCTION OF NOT LESS THAN 2 HOURS IN CASE OF POWER FAILURE.

7. PORTABLE APPLIANCES

7.1 PORTABLE HAND OPERATED APPLIANCES SHALL BE PROVIDED AS INDICATED ON PLAN.

Structure 1 Openable Windows Calculation
Area of Structure 1 = 4530sq.m.
Area of High Bay Window (H.B.W.) = 2.0m(H) x 145m = 290 sq.m.
Total openable window area = 290 sq.m.
= 6.4% of floor area



LEGEND

HR HOSE REEL	EMERGENCY LIGHT	FE 5KG CO2 FIRE EXTINGUISHER	SPRINKLER CONTROL VALVE SET
BREAK GLASS UNIT	EXIT EXIT SIGN	SB SAND BUCKET	GATE VALVE
FIRE ALARM BELL	NON-RETURN VALVE	SUBSIDIARY VALVE / FLOW SWITCH	GATE TYPE (With MONITORING)

PUMP SET	PRESSURE GAUGE		
Y-TYPE STRAINER	SPRINKLER HEAD (ON PLAN)		
SPRINKLER INLET	5KG DRY POWDER FIRE EXTINGUISHER		

PROJECT : Proposed Temporary Logistics Centre for a Period of 3 Years at Lots 456R.P., 459, 460, 461, 462 and 2229R. P. in D.D. 83, Kwan Tei, Fanling, N.T.	DRAWING TITLE : **F.S. Notes, Legend, Fire Service Installation Layout Plan**	REV	DESCRIPTION	DATE	ARCHITECT :	CONSULTANT :	FIRE SERVICE CONTRACTOR : **Century Fire Service Engineering Co., Ltd.**	DRAWN BY: C.K.NG (15 Oct 2024) / CHECKED BY / APPROVED BY
								DRAWING NO : **FS-01** REV. **0**
								SCALE : 1 :250 (A0)
								SOURCE : B.O.O. Ref. BD F.S.D. Ref. FP