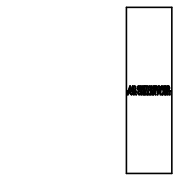
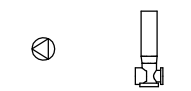
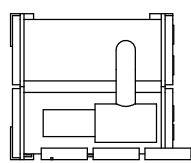
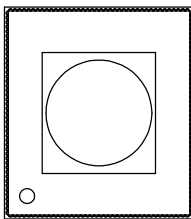
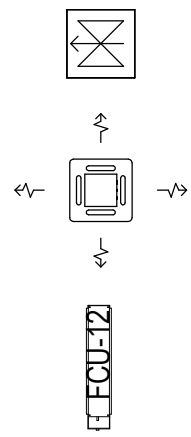


GENERAL NOTES

1. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE LATEST STATUTORY OBLIGATIONS, REGULATIONS, SPECIFICATION, CODES OF PRACTICE, ARCHITECTURAL, STRUCTURAL AND E&M DRAWINGS.
2. AIR DUCT CLEANING POINTS SHALL BE PROVIDED FOR ALL TYPES OF AIR DUCTS, INCLUDING SUPPLY, RETURN, EXHAUST AND TRANSFER DUCTS. AIR DUCT CLEANING POINTS SHALL BE AT APPROX. 4m APART, BUT WITH AT LEAST ONE POINT AT EACH MAIN OR BRANCH DUCT UNDER ALL CIRCUMSTANCES.
3. ALL FINAL FRESH AIR DUCT CONNECTED TO VRV/DX INDOOR UNITS SHALL NOT BE LESS THAN 150x150mm U.O.S.
4. ALL CONDENSATE DRAIN PIPE TO BE INSULATED PIPES OF THE APPROPRIATE SIZES. THE INSULATION SHALL BE IN FULL COMPLIANCE WITH THE CODE OF PRACTICE FOR ENERGY EFFICIENCY OF BUILDING SERVICES INSTALLATION 2018 EDITION AND SUBMIT TO THE SUPERVISING OFFICER FOR APPROVAL.
5. THE THERMOSTATS FOR VRV/DX INDOOR UNITS SHALL BE INSTALLED CLOSE TO THEIR CORRESPONDING AIR RETURN LOCATION. EXACT LOCATIONS SHALL BE PROPOSED BY THE AC SUB-CONTRACTOR AND APPROVED BY THE SUPERVISING OFFICER.
6. THE DESIGN, SIZING AND PERFORMANCE OF THE AIR DIFFUSERS/ LOUVRES SHALL BE CAPABLE OF HANDLING AT LEAST THE FLOW RATES AS INDICATED WITH THE BEST PERFORMANCE AND WITH NO PERCEPTIBLE NOISE OR VIBRATION. THIS SUB-CONTRACTOR SHALL NOTE THIS AND SIZE THE DIFFUSERS TO SATISFACTORILY HANDLE THE REQUIRED AIR FLOW RANGES.
7. THE EXTERNAL STATIC PRESSURE FOR EACH VRV INDOOR UNIT SHALL BE ADEQUATE TO CATER FOR THE LENGTH OF AIR DUCT AND SIZE/SHAPE OF DIFFUSERS/GRILLES, SO AS TO PROVIDE THE BEST PERFORMANCE WITH NO PERCEPTIBLE OR VIBRATION.
8. ALL AIR DUCTS TO BE COMPLETE WITH VCD AT EACH BRANCH OFF AND TURNING VANES AT EACH BEND.
9. ALL LABELS ON CONTROL INDICATION PANELS ETC. SHALL BE IN BOTH ENGLISH AND THE EQUIVALENT CHINESE.
10. ALL LINEAR AIR DIFFUSER/GRILLE C/W INSULATED AIR PLENUM SHALL BE PRICED IN NUMBER OF THE SIZE AS SHOWN AND THE DIFFUSER/GRILLE & INSULATED AIR PLENUM SHALL BE PROPRIETARY MAKE.
11. ALL DIFFUSER/GRILLES/REGISTERS SHALL BE CONSTRUCTED BY ALUMINUM, U.O.S. ALL DUMMY DIFFUSER/GRILLE SHALL BE C/W ALUMINUM COVERING PLATE WITH EPOXY COATED.
12. ALL FRESH AIR INTAKE LOUVRE PROVIDED BY BUILDER'S WORK SHALL BE WEATHERPROOF TYPE C/W ALUMINIUM WASHABLE FILTER REFERRING ARCHITECTURAL DRAWINGS. ALL EXTERNAL LOUVRE FOR EXHAUST/INTAKE AIR SHALL BE WEATHERPROOF TYPE AND SHALL BE INCLUDED IN BUILDING WORKS OF THE MAIN CONTRACT.
13. ALL INTAKE/ EXHAUST EXTERNAL LOUVRES SHALL BE C/W 10MM GALVANISED MESH BIRDWIRES BY THE AC SUB-CONTRACTOR.
14. ALL MOUNTING BRACKET / SUPPORTS SHALL BE HOT DIP GALVANISED TO BS EN ISO 1461.
15. THE MINIMUM SIZE OF THE CONTROL CABLE SHALL BE 1.5 sq mm AND LSOH TYPE.
16. U.O.S., ALL M.C.B./M.C.C.B. BOARDS/ISOLATOR FOR ACMV EQUIPMENT ARE LOCATED ADJACENT TO THE EQUIPMENT SHALL BE INCLUDED IN ELECTRICAL WORK BUT THE WIRING WORK FOR THE CONNECTION TO THE ACMV EQUIPMENT SHALL BE INCLUDED IN ACMV WORK.
17. ALL CABLES CONNECTED TO OUTDOOR EQUIPMENT TO BE 4C XLPE/SW/LSOH CABLES.

LEGEND



EXHAUST AIR FAN (EAF)

CEILING MOUNTED CASSETTE TYPE CHILLED WATER FAN COIL UNIT (FCU)

FAN COIL UNIT (FCU)

500RT COOLING TOWER

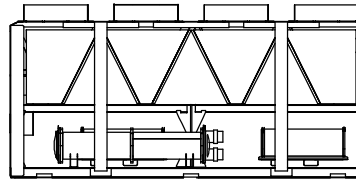
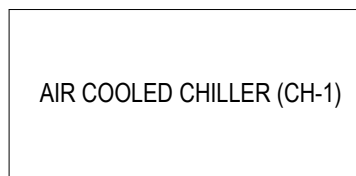
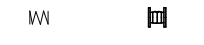
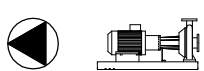
500RT COOLING TOWER

WATER PUMP

WATER METER

WALL MOUNT EXHAUST PROPELLER FAN

A/C SWITCHBOARD FOR CHILLER PLANT



CENTRIFUGAL PUMP SET

PIPE FLEX CONNECTOR

FLOW SWITCH

PRESSURE GAUGE

GATE VALVE

MOTORIZED BUTTERFLY VALVE

BALANCING VALVE

PRESSURE GAUGE WITH GATE VALVE

LINEAR AIR DIFFUSER

LINEAR 4 WAY DIFFUSER

AIR COOLED CHILLER

FOR REFERENCE ONLY

SYMBOLS LINE



EXHAUST AIR DUCT (EAD)

RETURN AIR DUCT (RAD)

SUPPLY AIR DUCT (SAD)

FRESH AIR DUCT (FAD)

PRIMARY AIR DUCT (PAD)

FAN COIL UNIT (FCU)

CONDENSATE DRAIN PIPE (CDP)

FEED EXPANSION PIPE (F&E)

CHILLER WATER SUPPLY (CHWS)

CHILLER WATER RETURN (CHWR)

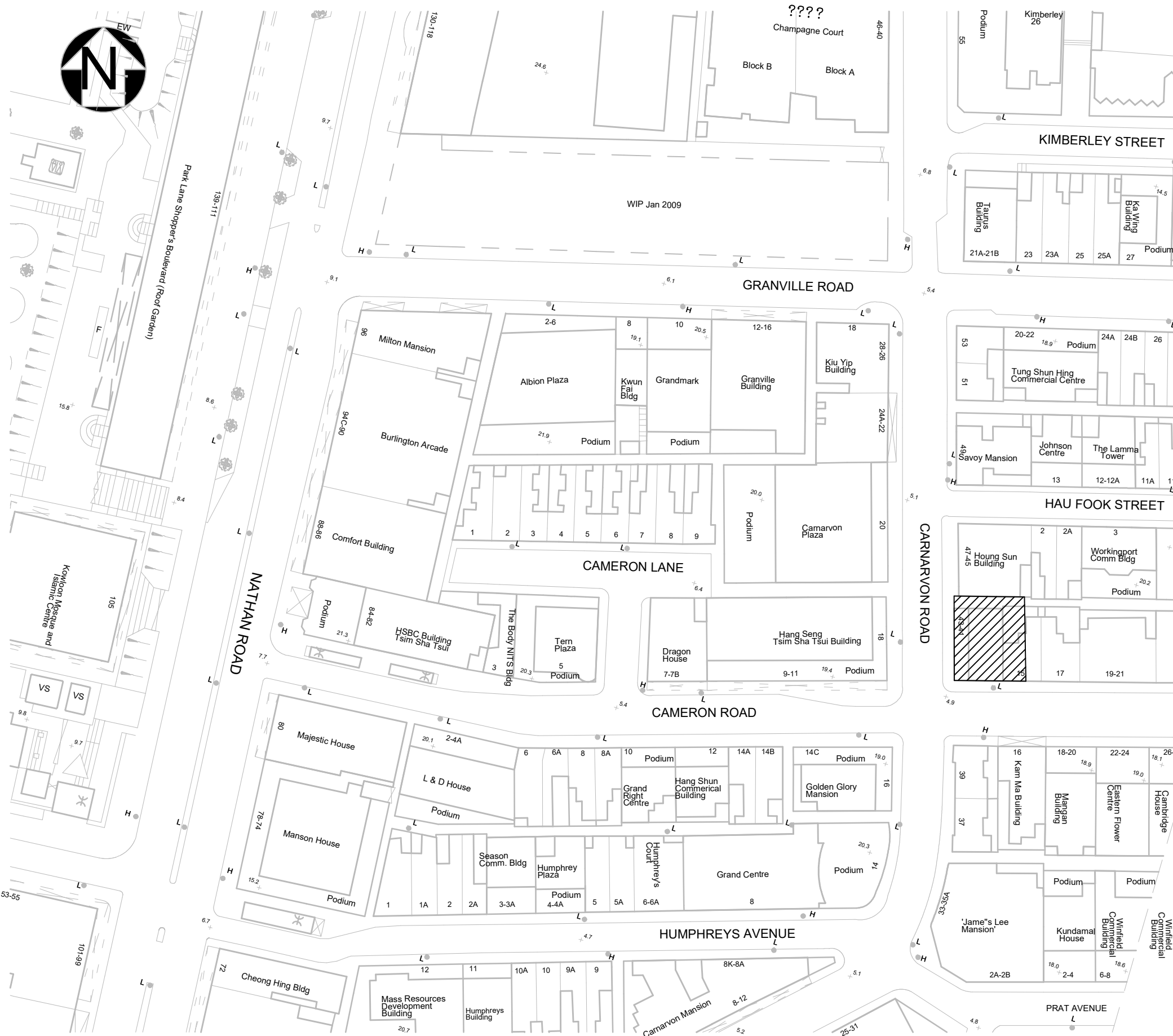
MAKE-UP WATER PIPE (MWP)

BLEED-OFF PIPE (BOP)

BALANCING PIPE (BLP)

CHILLED WATER RETURN (CWR)

CHILLED WATER SUPPLY (CWS)



DRAWING LIST		
DRAWING NUMBER	DRAWING TITLE	REVISION
AC001	GENERAL NOTES, LEGENDS, ABBREVIATION AND DRAWING LIST	0
AC100	HVAC SCHEMATIC	0
AC101	HVAC LAYOUT PLAN AT LEVEL GF, L01, L02, L03	0
AC102	HVAC LAYOUT PLAN AT L04-L15, RF, URF, TRF	0
AC400	HVAC PLAN DETAIL & SECTION	0
AC401	HVAC PLAN DETAIL & SECTION	0
AC600	INSTALLATION DETAILS (SHEET 1 OF 3)	0
AC601	INSTALLATION DETAILS (SHEET 2 OF 3)	0
AC602	INSTALLATION DETAILS (SHEET 3 OF 3)	0

B.D.REFERENCE

F.S.D.REFERENCE

W.W.O.REFERENCE

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CLIENT LOGO

CONSULTANT LOGO

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APPOINTING PARTY / CLIENT REVIEW & ACCEPT

T - ACCEPTED (TIME)

A - REVIEWED & ACCEPTED

B - REVIEWED & ACCEPTED WITH COMMENTS

C - DO NOT USE

DATE

ID

LEAD CONSULTANT / LEAD CONTRACTOR REVIEW & AUTHORISATION

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DATE

ID

0 1ST SUBMISSION 08-03-2021

REV DESCRIPTION DATE

NAME AND DESIGNATION DATE

APPROVED APPROVER dd/mm/yyyy

CHECKED CHECKER dd/mm/yyyy

DESIGNED DESIGNER dd/mm/yyyy

DRAWN BIM MODELLER dd/mm/yyyy

PROJECT

CIC SAMPLE PROJECT

DRAWING TITLE

GENERAL NOTES, LEGENDS, ABBREVIATION AND DRAWING LIST

PROJECT NUMBER PXXXXX

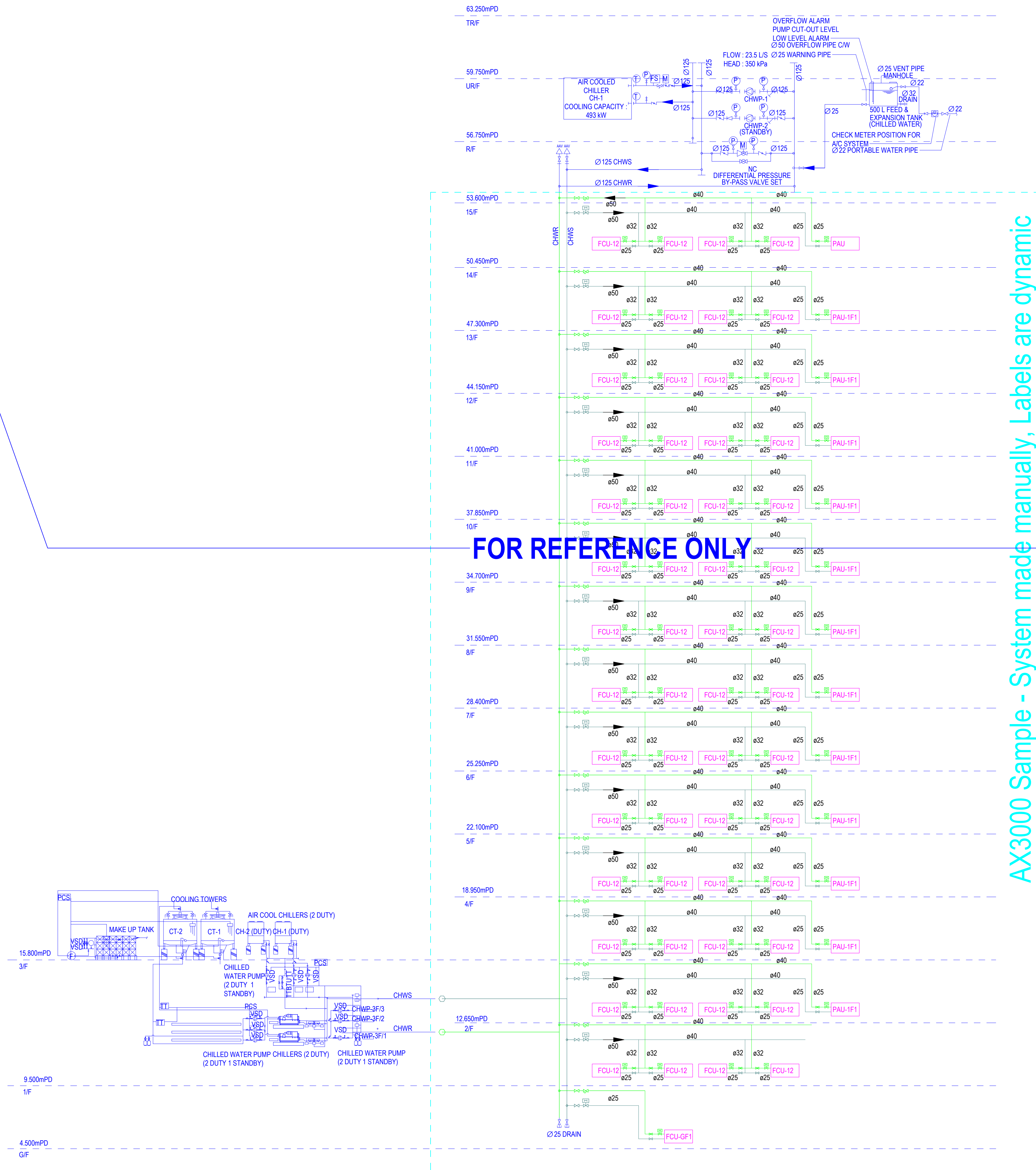
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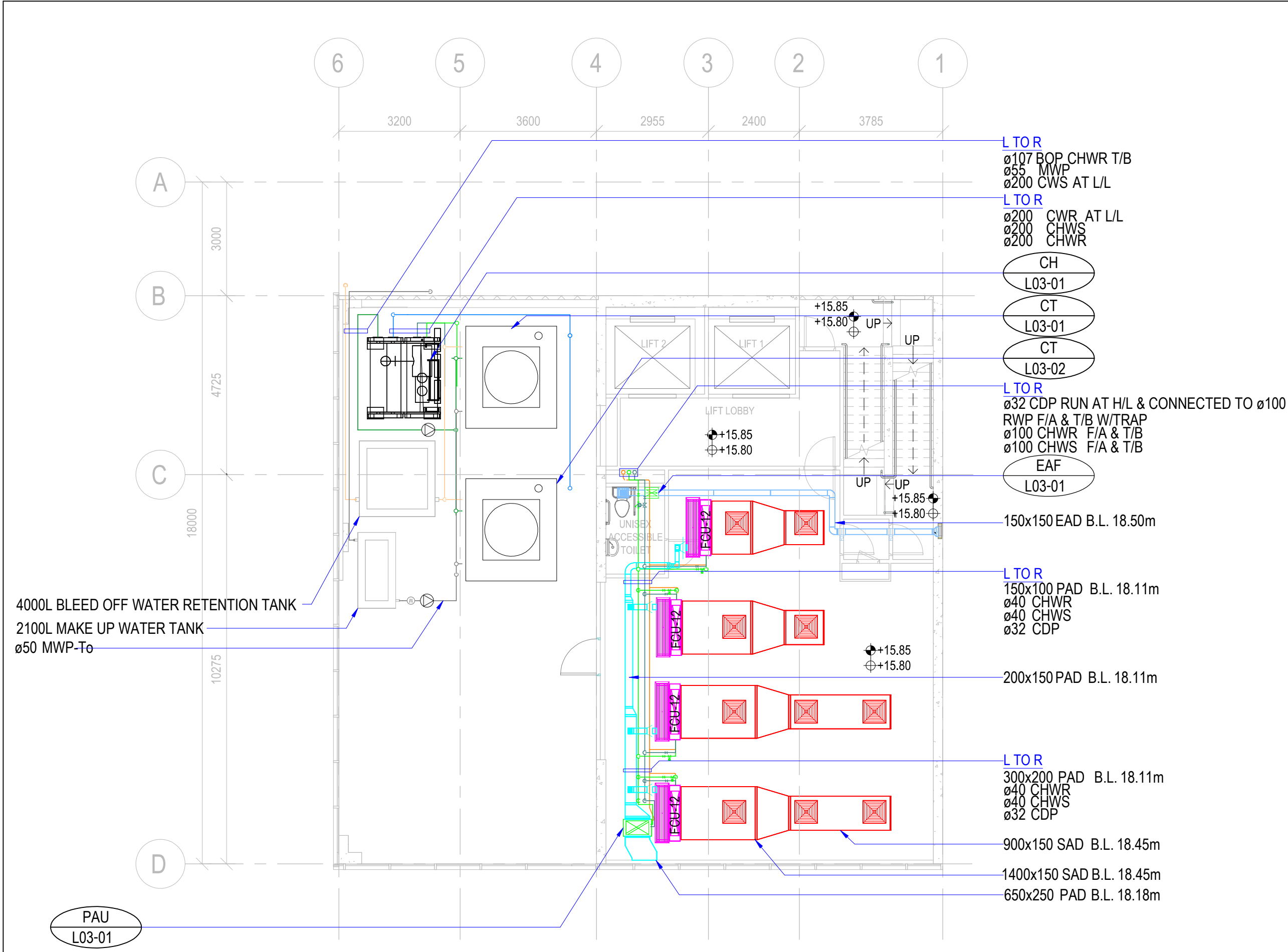
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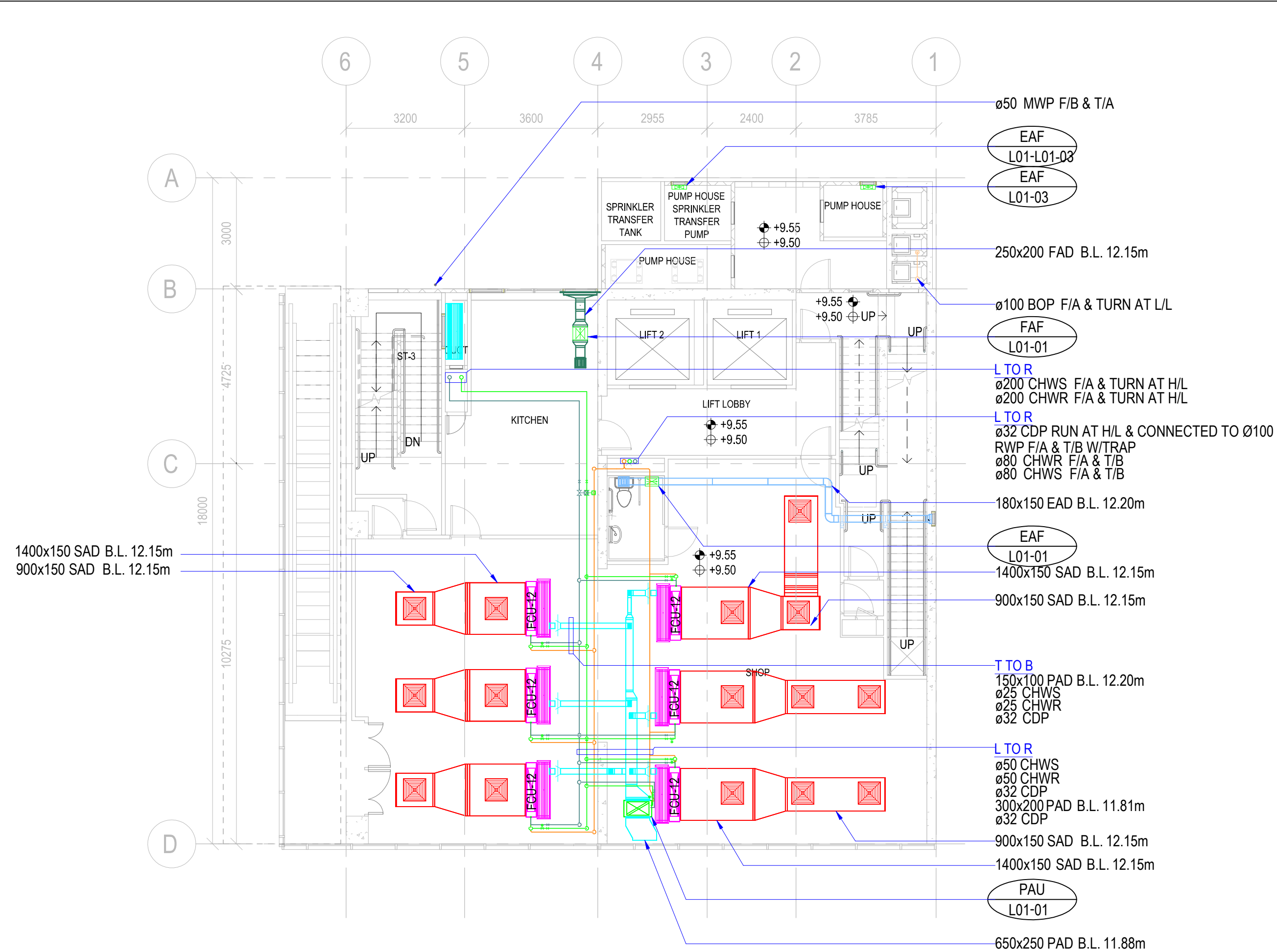




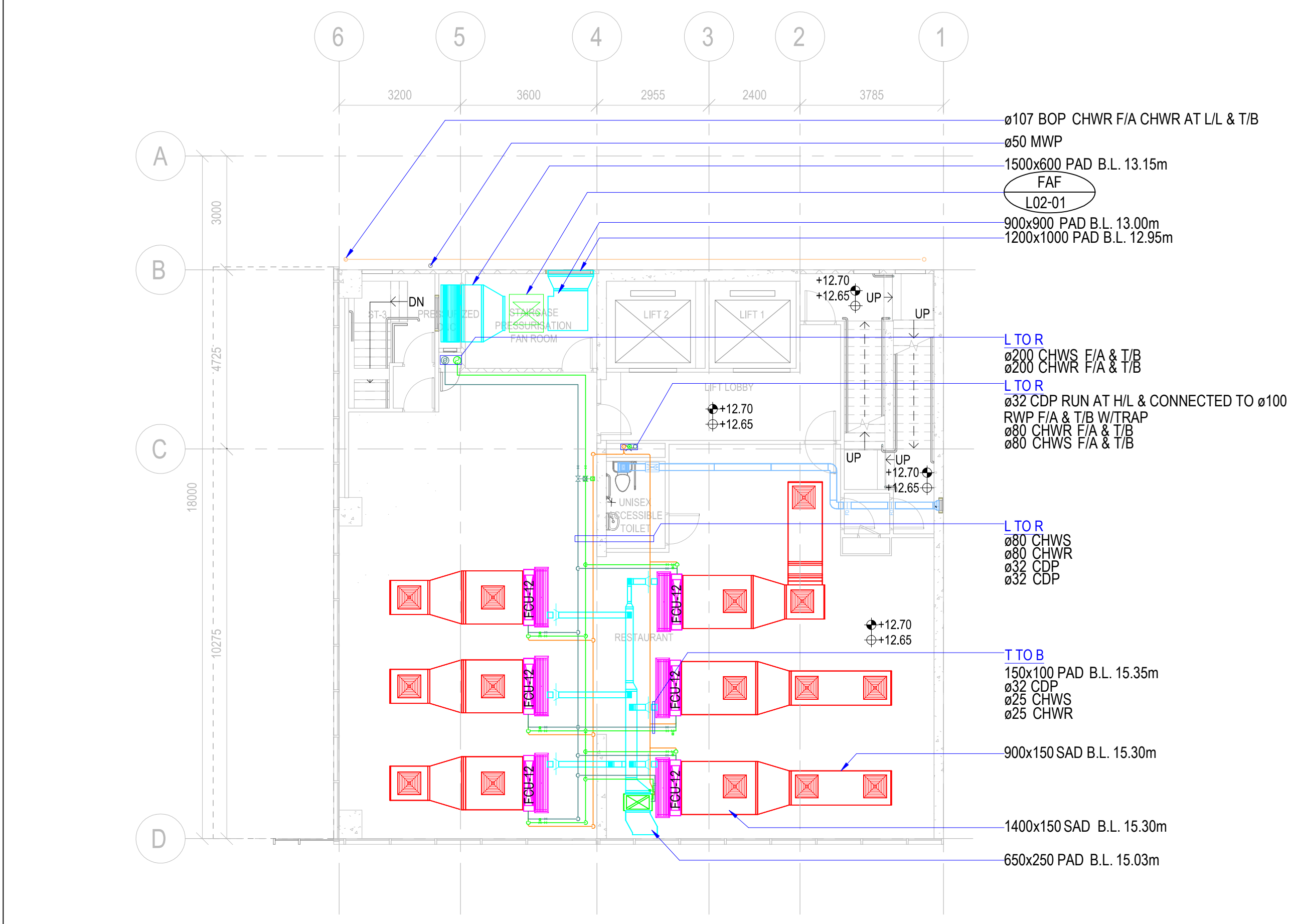
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CLIENT LOGO		
<div><div>CONSTRUCTION INDUSTRY COUNCIL 建造業議會</div></div>		
CONSULTANT LOGO		
<div><div>CONSTRUCTION INDUSTRY COUNCIL 建造業議會</div></div>		
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0	1ST SUBMISSION	08-03-2021
REV	DESCRIPTION	DATE
	NAME AND DESIGNATION	DATE
APPROVED	APPROVER	dd/mm/yyyy
CHECKED	CHECKER	dd/mm/yyyy
DESIGNED	DESIGNER	dd/mm/yyyy
DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
HVAC SCHEMATIC		
PROJECT NUMBER		
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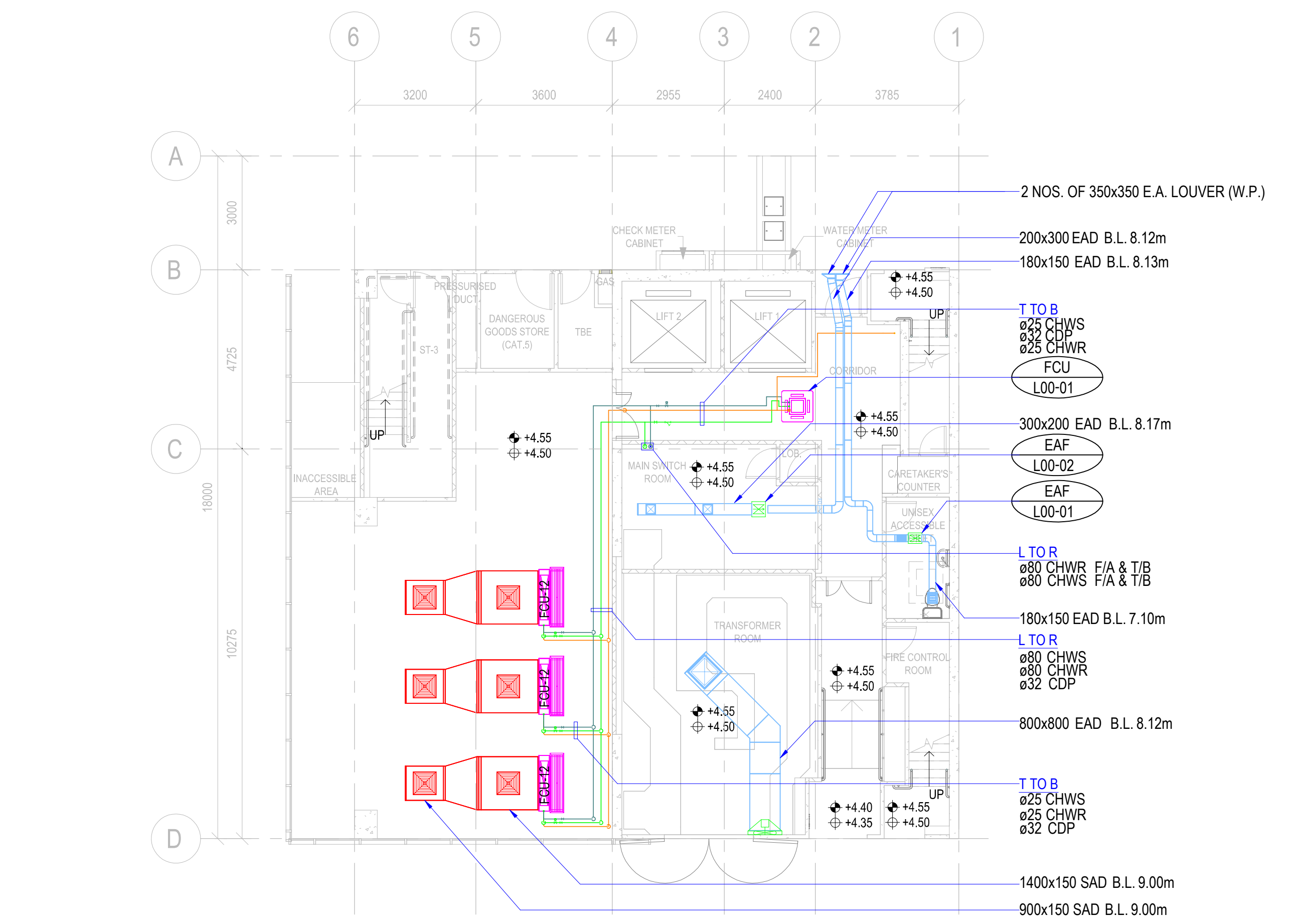
4 L3 PLAN
1:100



2 L1 PLAN
1:100

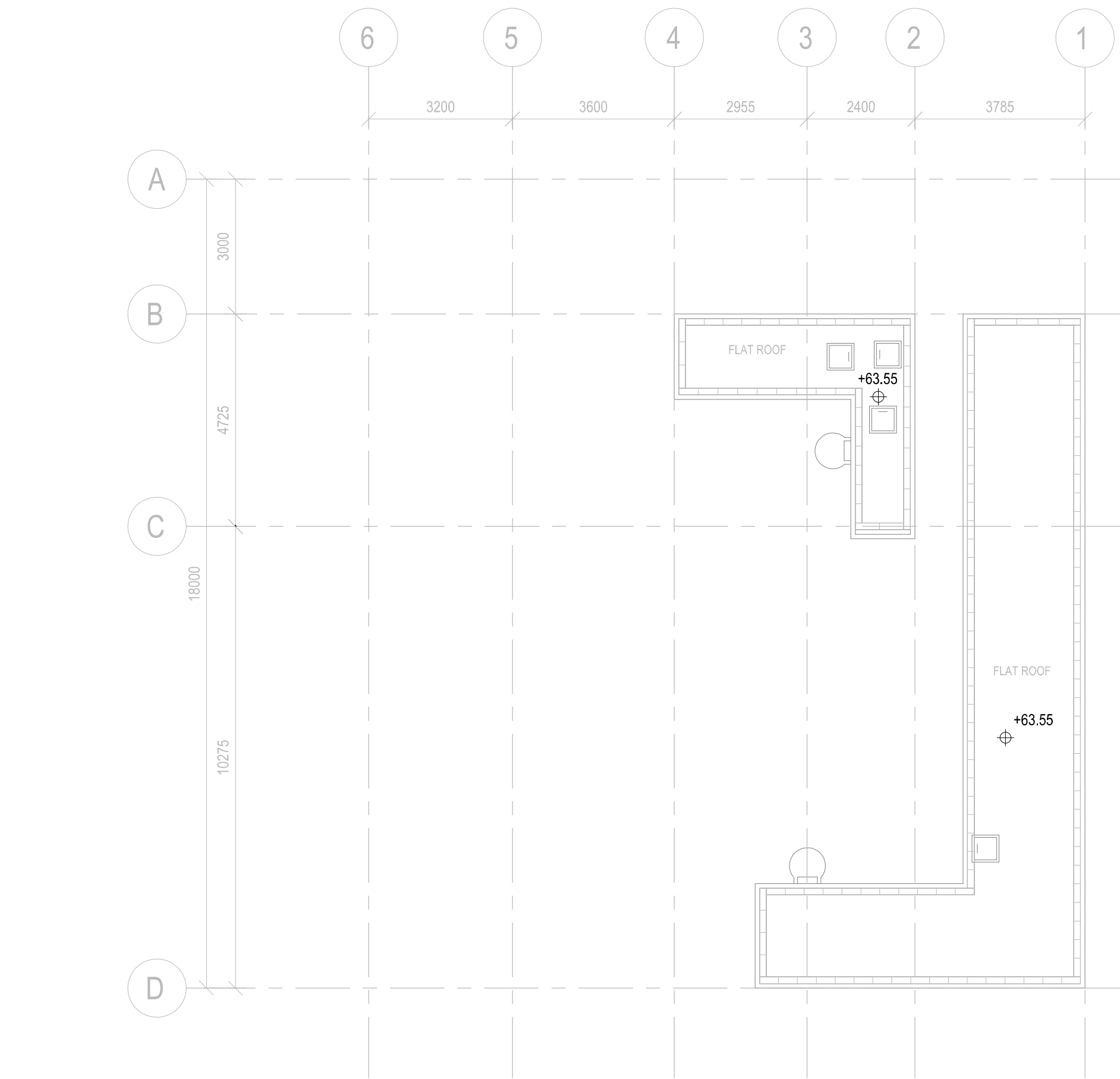


3 L2 PLAN
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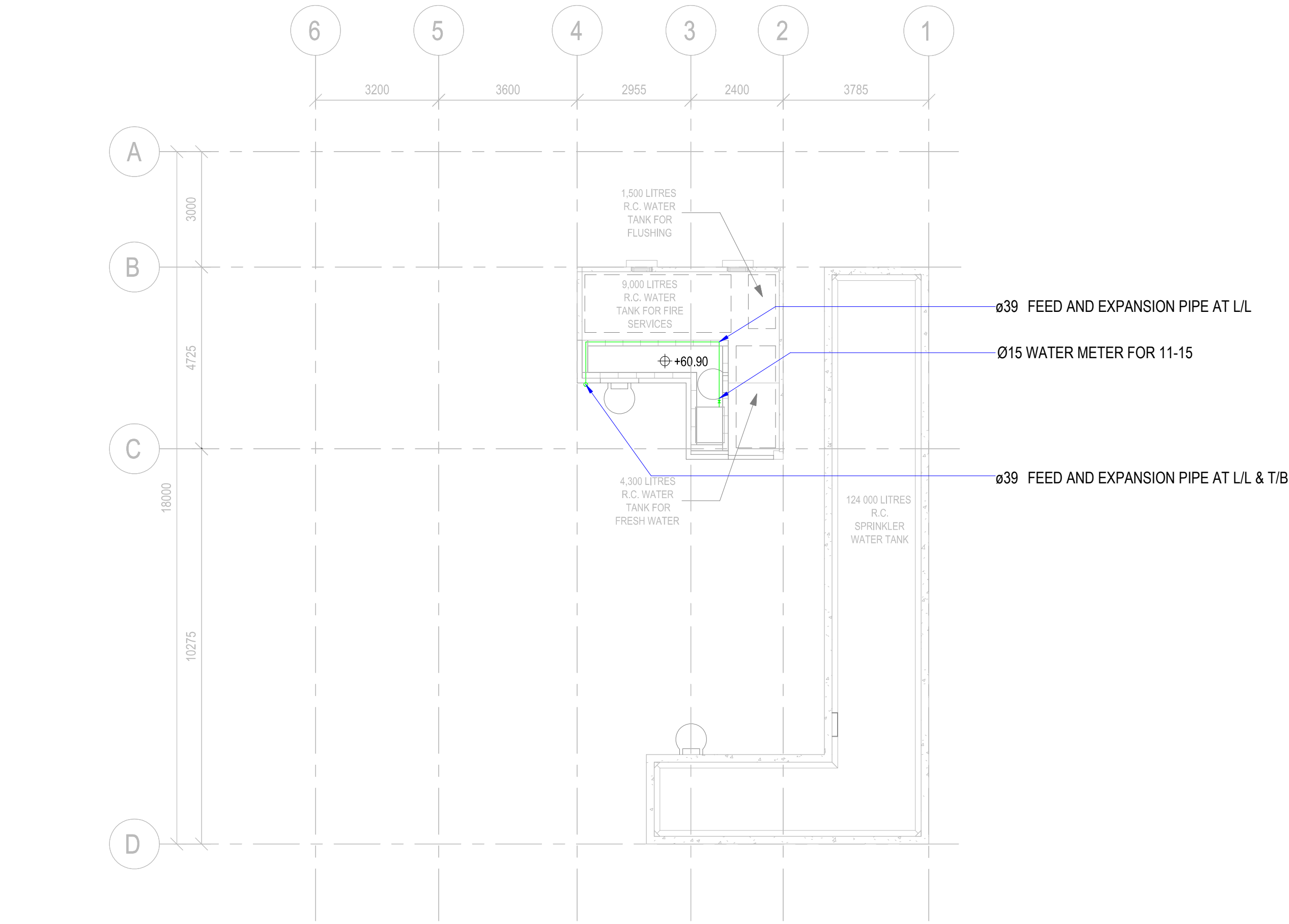


1 GF PLAN
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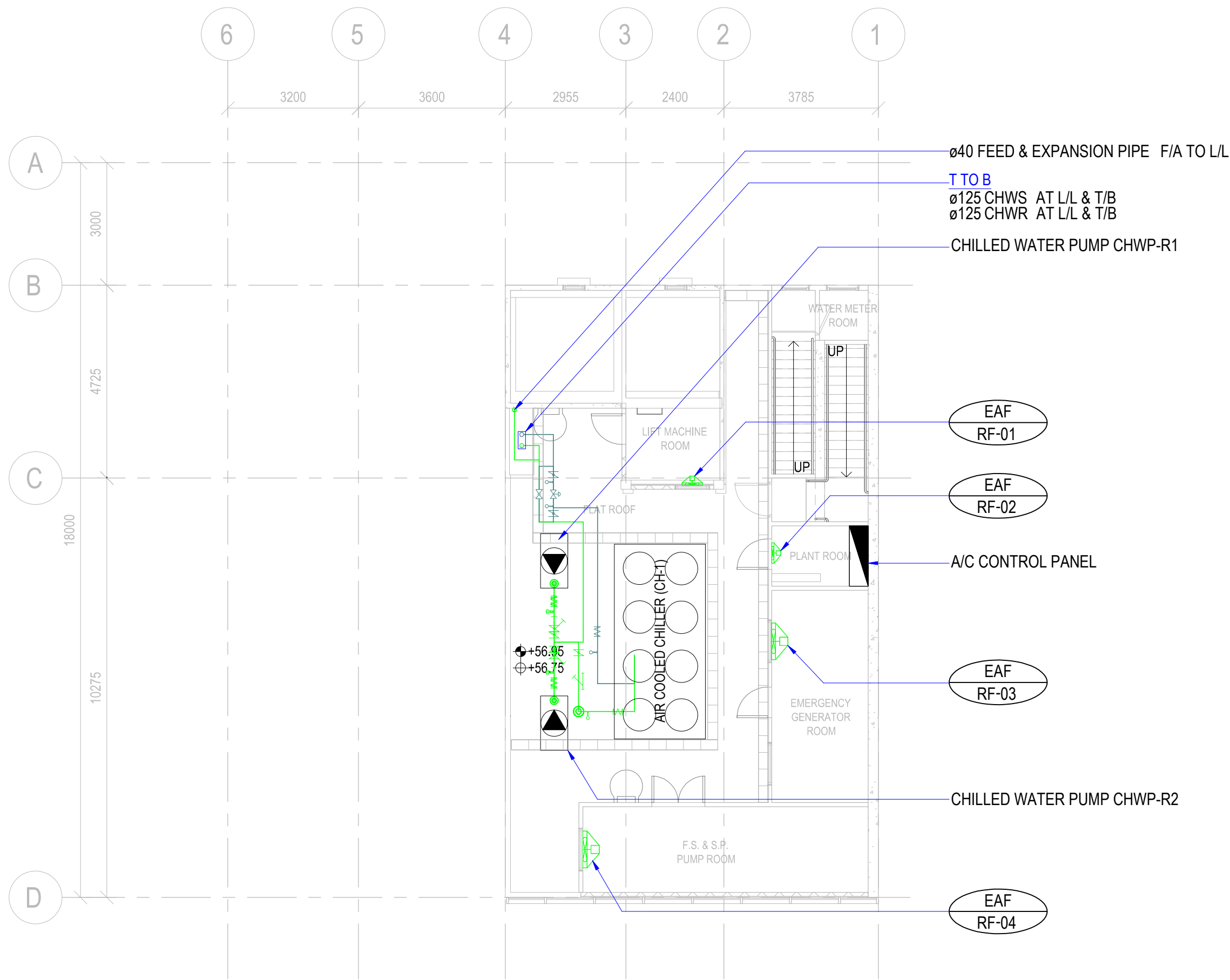
B.D. REFERENCE		
F.S.D. REFERENCE		
W.W.O. REFERENCE		
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REV		DESCRIPTION
NAME AND DESIGNATION		DATE
APPROVED	APPROVER	dd/mm/yyyy
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DESIGNED	DESIGNER	dd/mm/yyyy
DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
HVAC LAYOUT PLAN AT LEVEL GF, L01, L02, L03		
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PURPOSE OF ISSUE		PLANNING SUBMISSION
SCALE		1 : 100 A1
DRAWING NO.		PXXXXX / AC101
REV		0



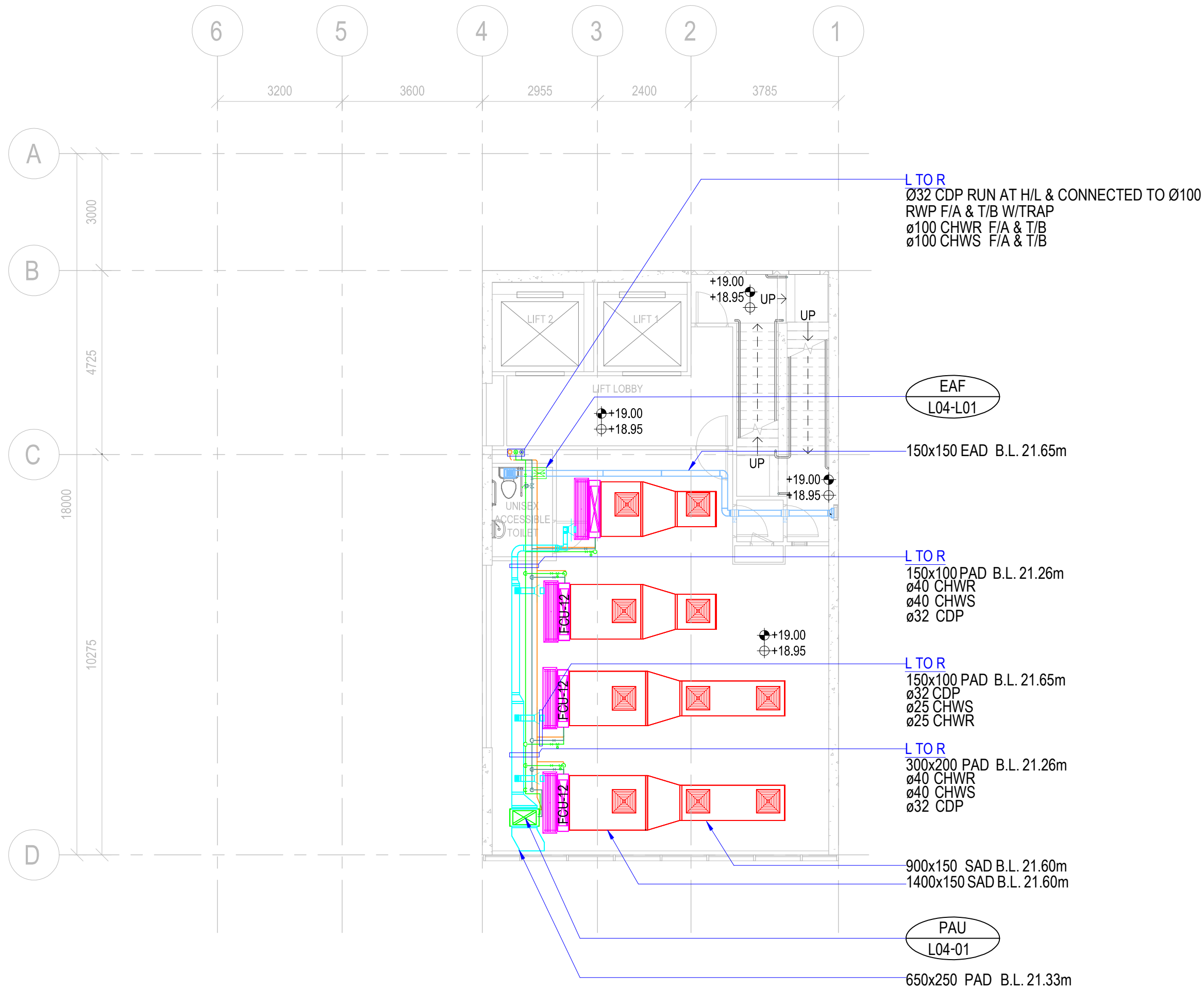
4 TRF PLAN
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3 URF PLAN
1:100



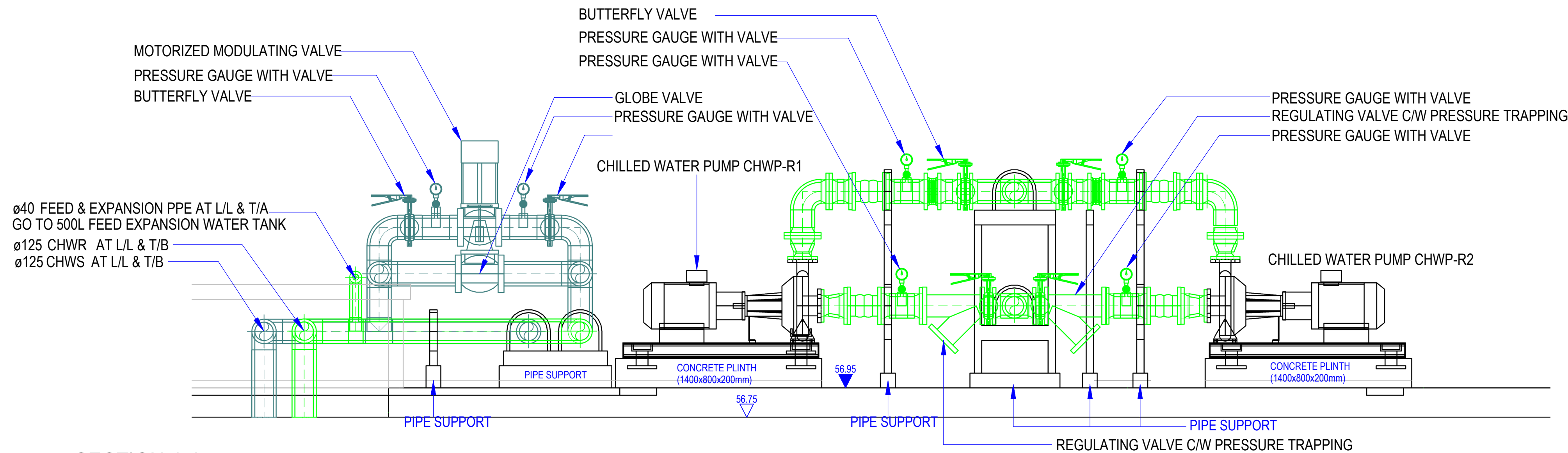
2 RF PLAN
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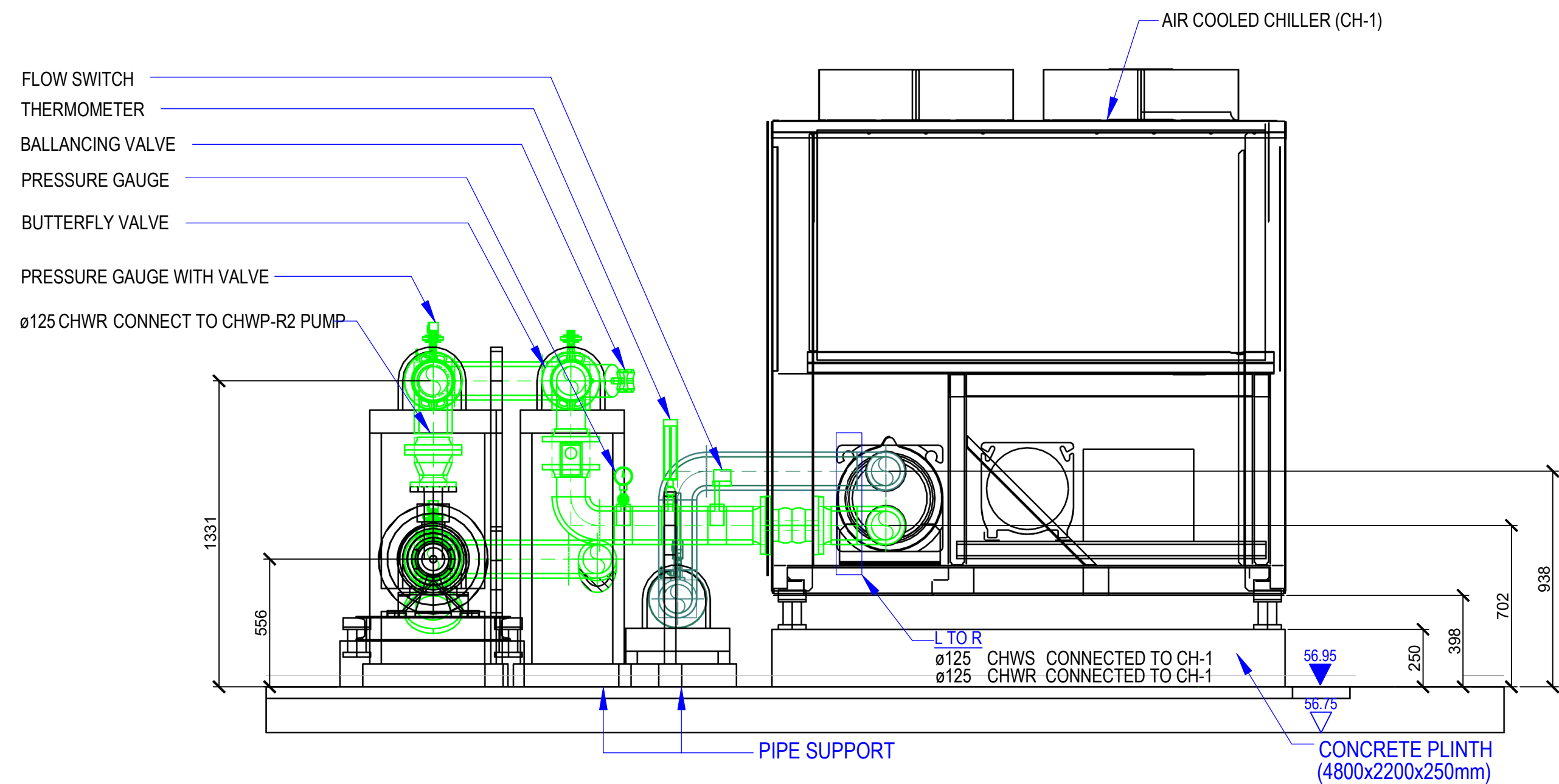
1 L04-L15 PLAN
1:100

B.D. REFERENCE		
F.S.D. REFERENCE		
W.W.O. REFERENCE		
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APPROVED APPROVER dd/mm/yyyy		
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DESIGNED DESIGNER dd/mm/yyyy		
DRAWN BIM MODELLER dd/mm/yyyy		
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
HVAC LAYOUT PLAN AT L04-L15, RF, URF, TRF		
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SCALE 1 : 100 A1		
DRAWING NO. REV		
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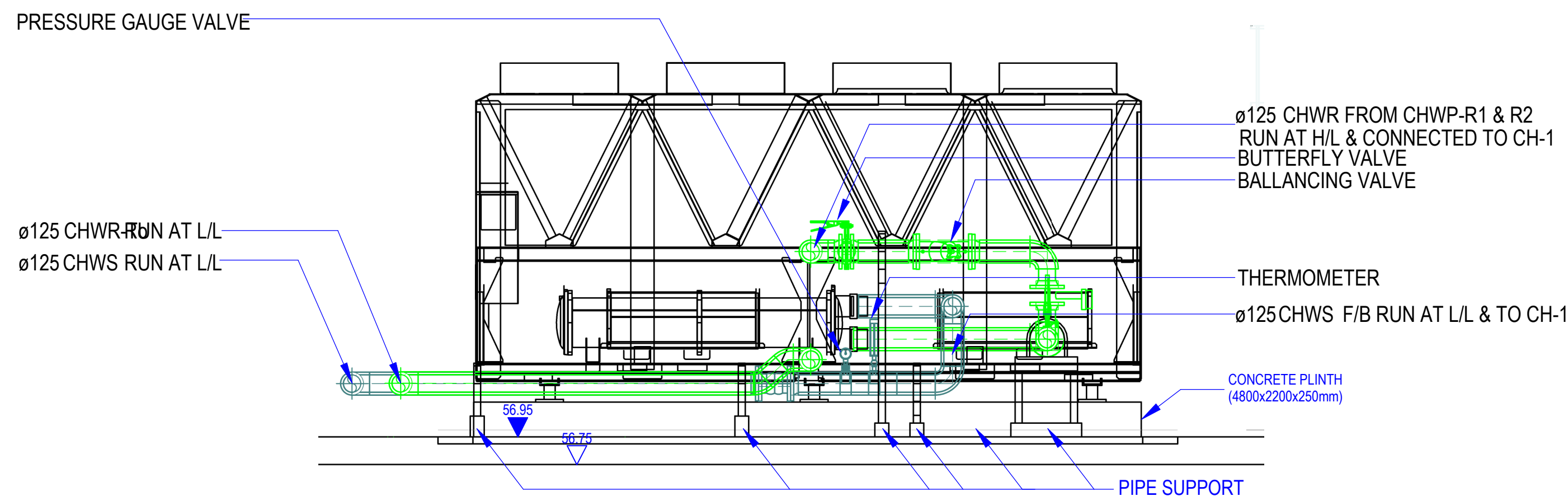




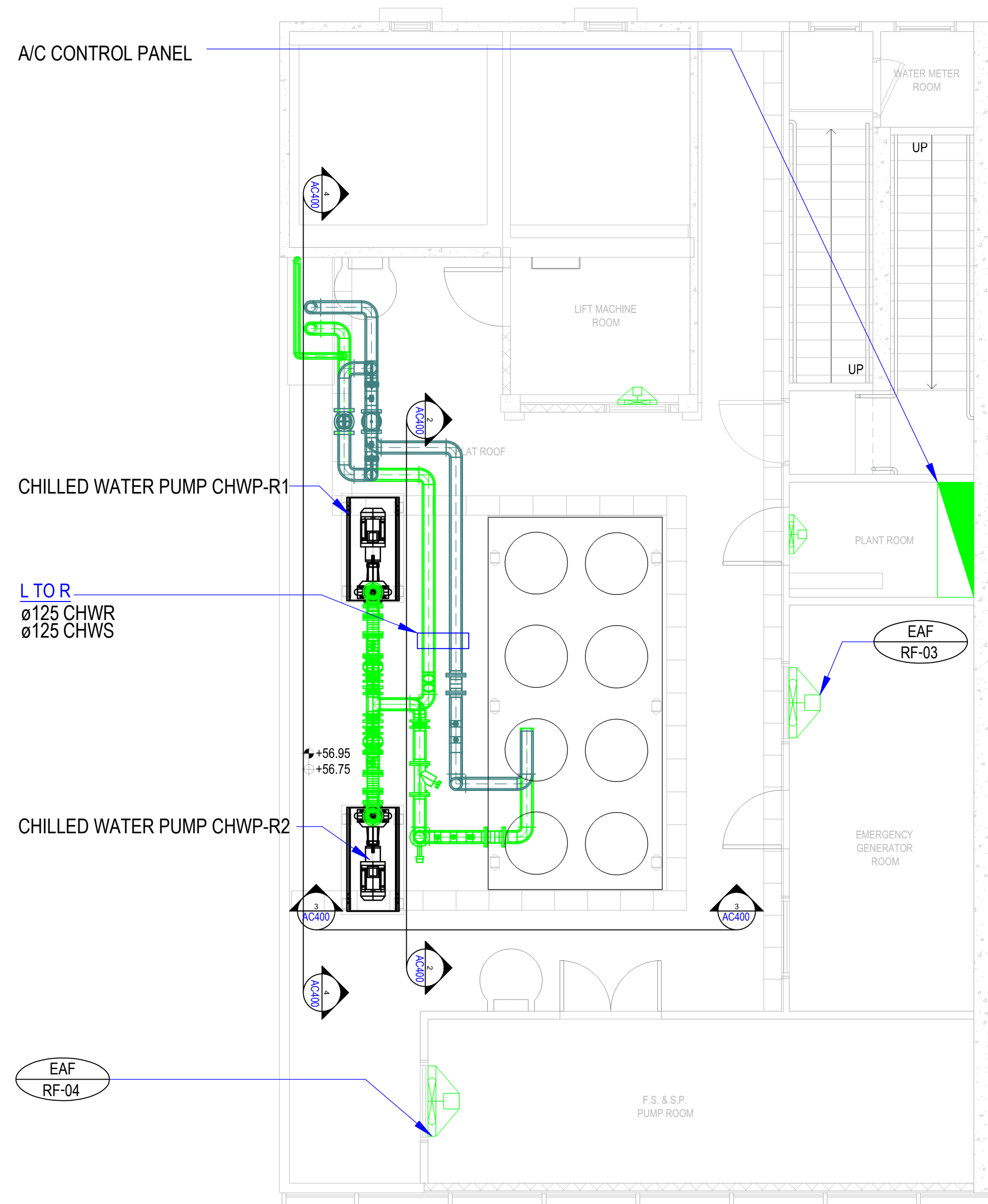
3 SECTION 4-4
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2 SECTION 3-3
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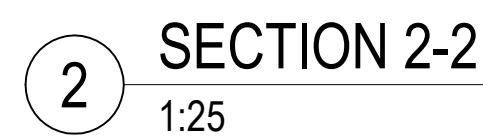
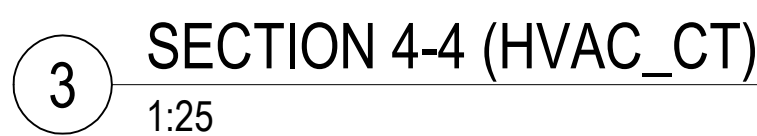





2 SECTION 2-2
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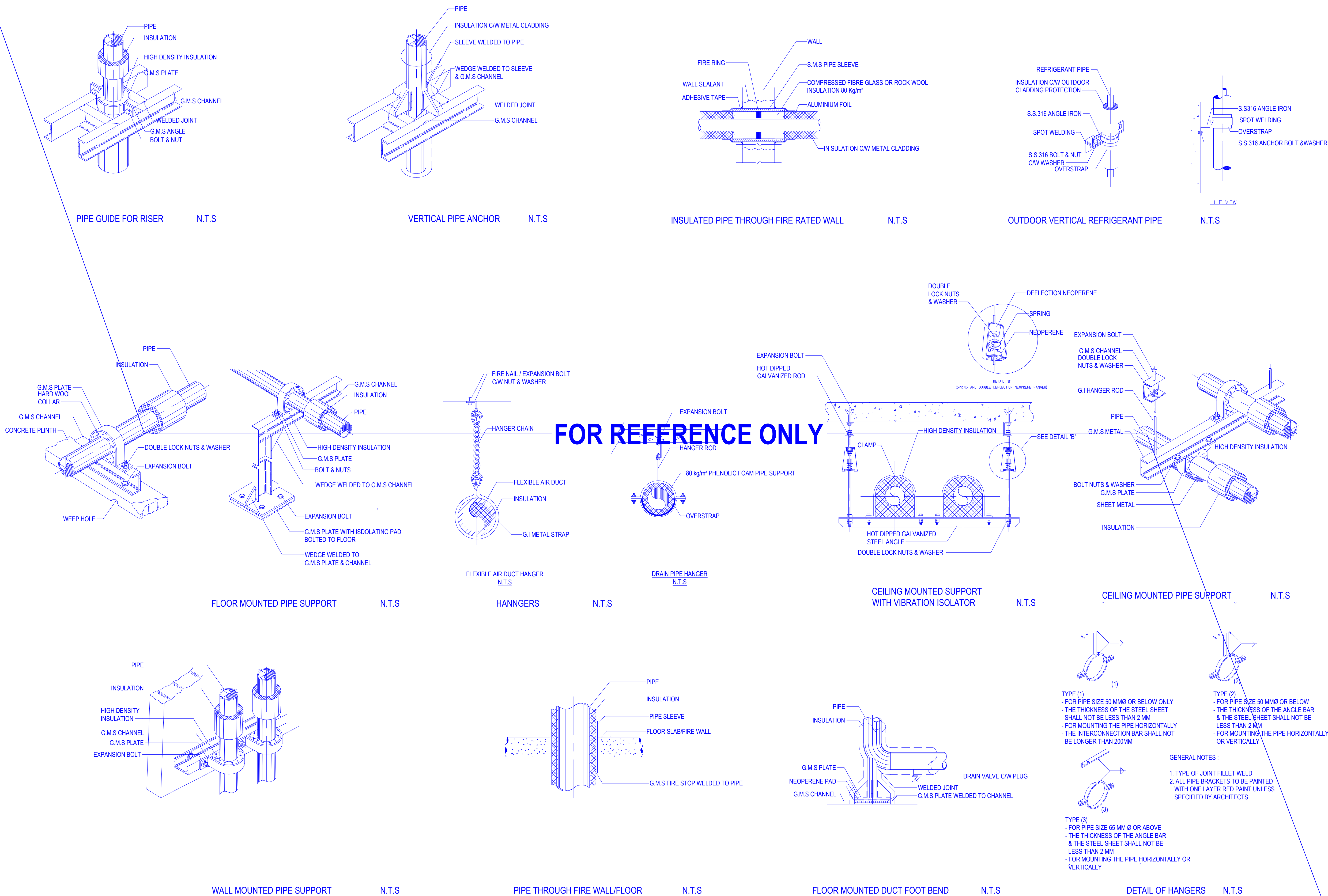


1 AIR CONDITIONING PLANT LAYOUT
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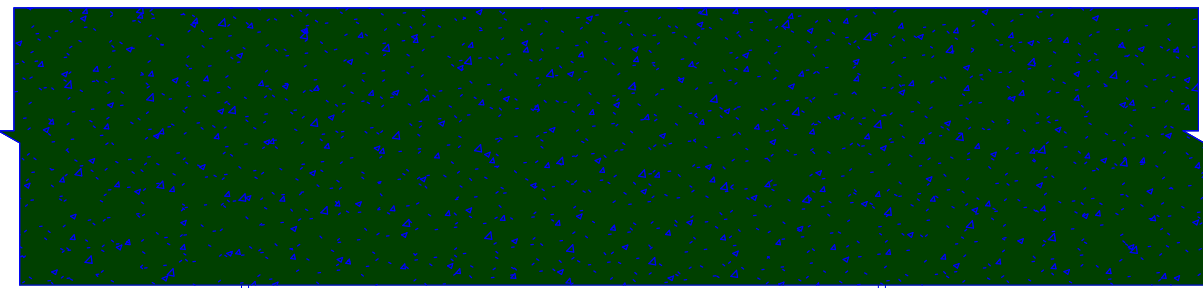
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DESIGNED	DESIGNER	dd/mm/yyyy
DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
HVAC PLAN DETAIL & SECTION		
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PURPOSE OF ISSUE		PLANNING SUBMISSION
SCALE		As indicated A1
DRAWING NO.		PXXXXX / AC400
REV		0



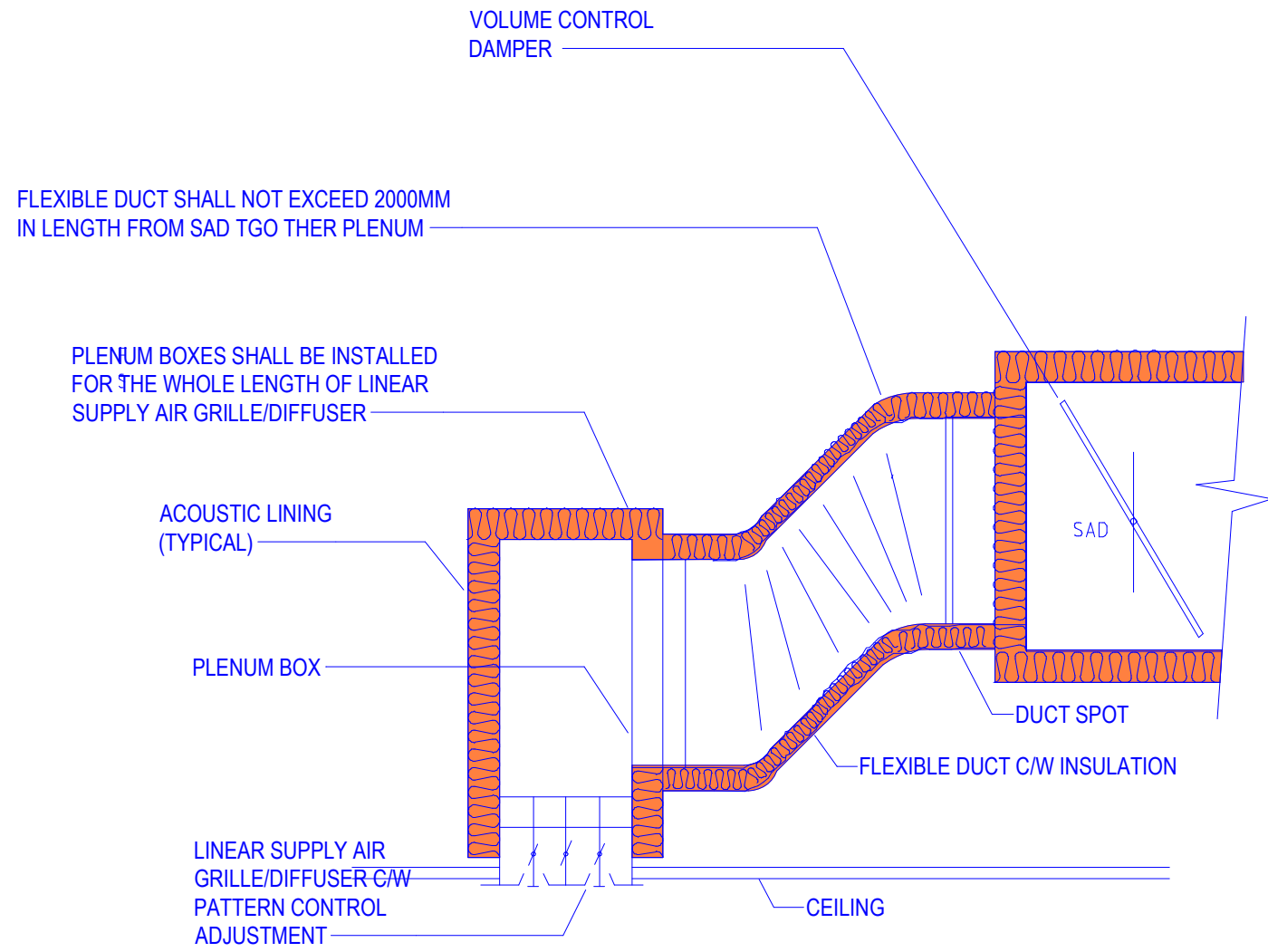
B.D. REFERENCE		
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CONSULTANT LOGO		
<div><div>CONSTRUCTION INDUSTRY COUNCIL 建造業議會</div></div>		
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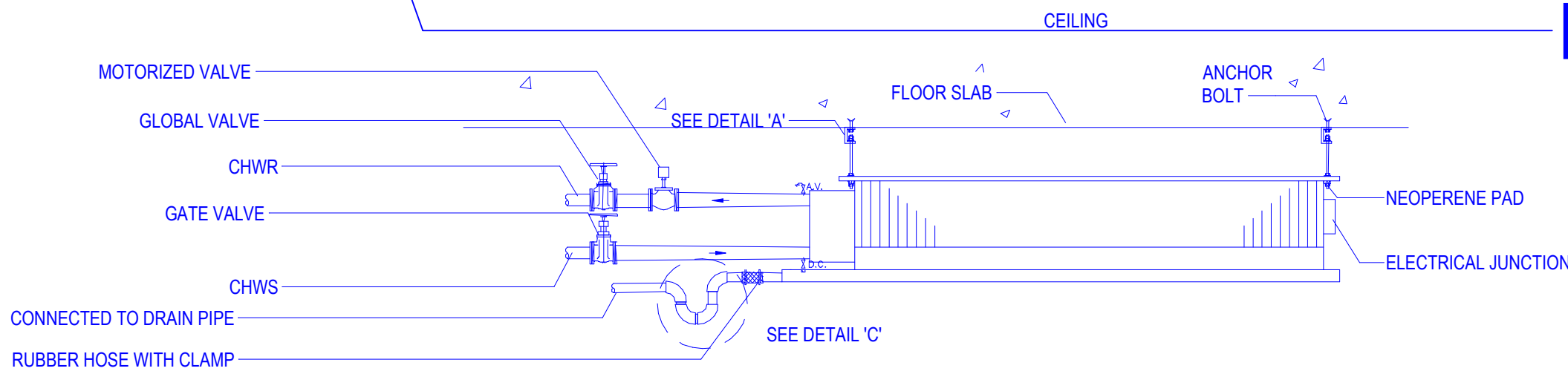
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CONSULTANT LOGO		
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APPOINTING PARTY / CLIENT REVIEW & ACCEPT		
T - ACCEPTED (TIME)		
A - REVIEWED & ACCEPTED		
B - REVIEWED & ACCEPTED WITH COMMENTS		
C - DO NOT USE		
DATE		
ID		
LEAD CONSULTANT / LEAD CONTRACTOR REVIEW & AUTHORISATION		
A - REVIEWED & AUTHORISED		
B - REVIEWED & AUTHORISED WITH COMMENTS		
C - DO NOT USE		
DATE		
ID		
0 1ST SUBMISSION		08-03-2021
REV	DESCRIPTION	DATE
	NAME AND DESIGNATION	DATE
APPROVED	APPROVER	dd/mm/yyyy
CHECKED	CHECKER	dd/mm/yyyy
DESIGNED	DESIGNER	dd/mm/yyyy
DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
INSTALLATION DETAILS (SHEET 1 OF 3)		
PROJECT NUMBER		
PURPOSE OF ISSUE		
SCALE		
DRAWING NO.		
REV		
PXXXXX / AC600		
0		



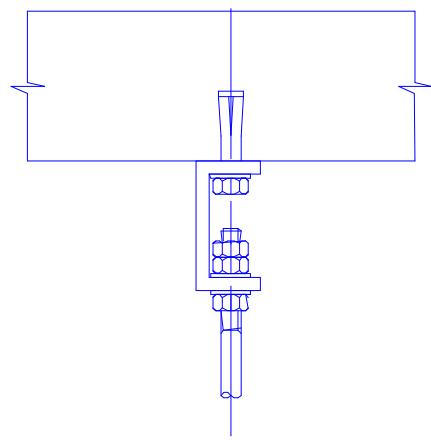
ACOUSTIC LAGGING FOR SILENCER/DUCTWORK N.T.S



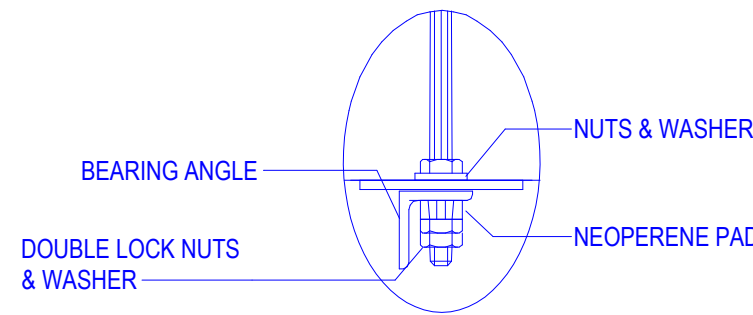
LINEAR SUPPLY AIR SLOT / DIFFUSER CONNECTION N.T.S



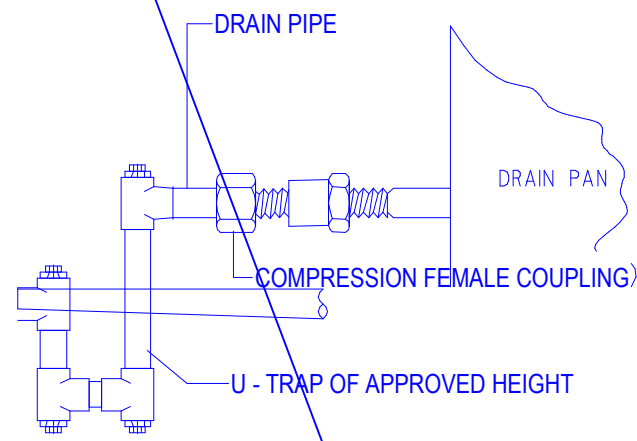
TYPICAL FACN COIL UNIT INSTALLATION N.T.S



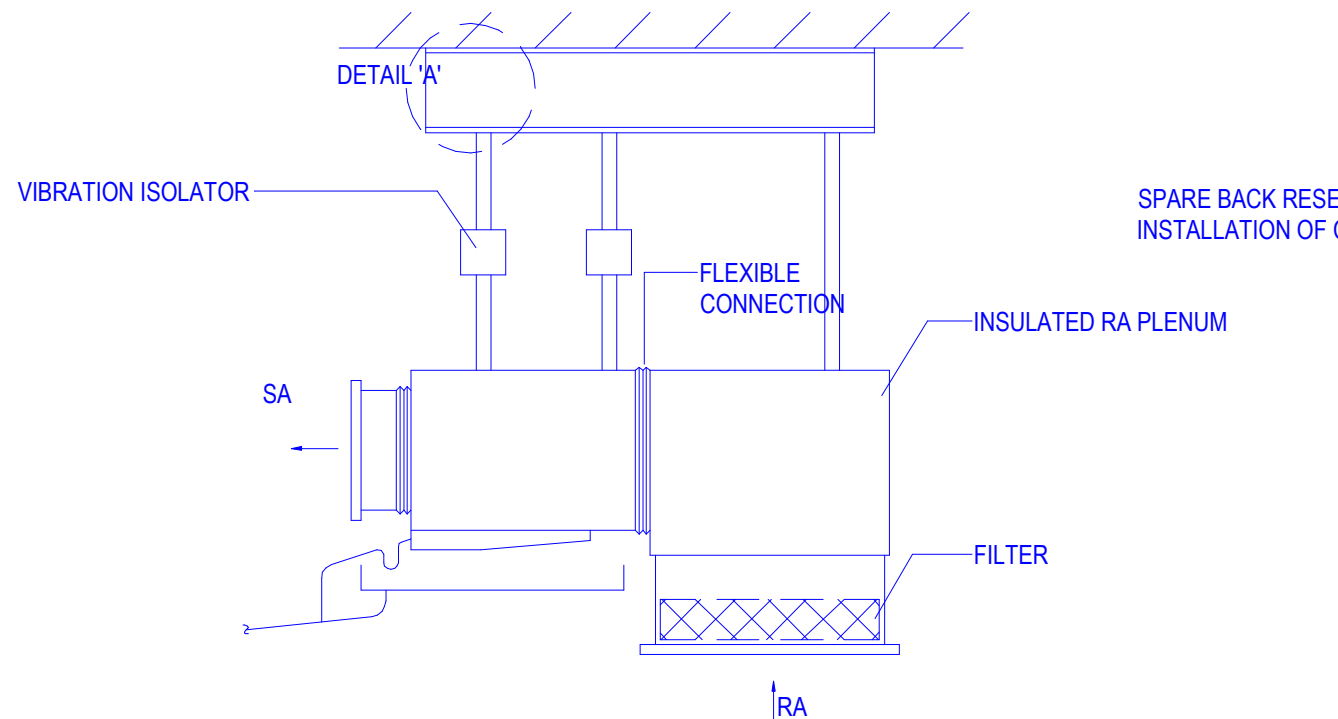
DETAIL 'A' N.T.S



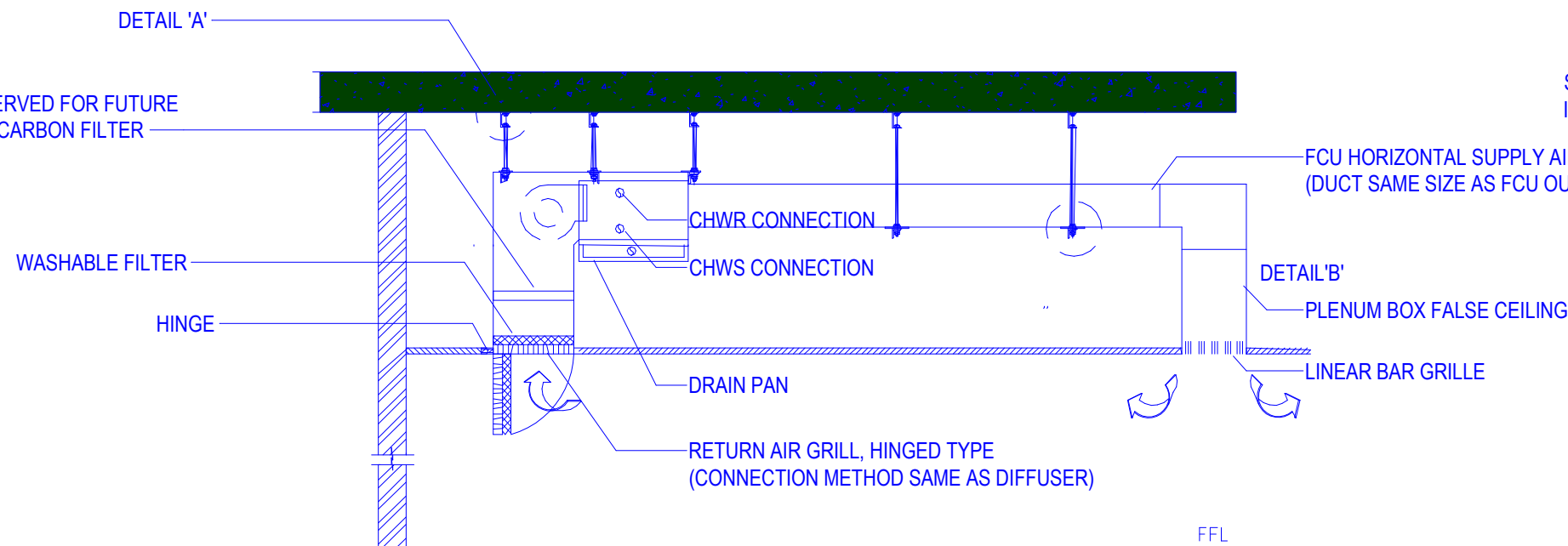
DETAIL 'B' N.T.S



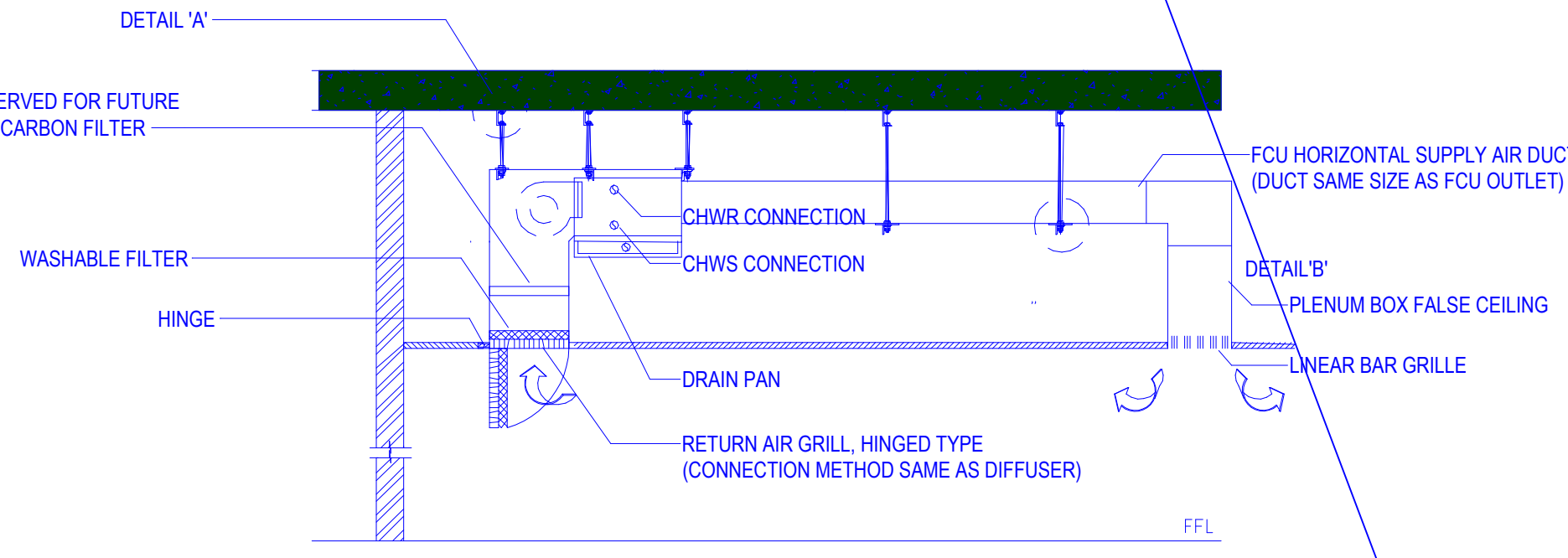
DETAIL 'C' N.T.S






DETAIL OF FAN COIL UNIT (PLANTROOM) N.T.S

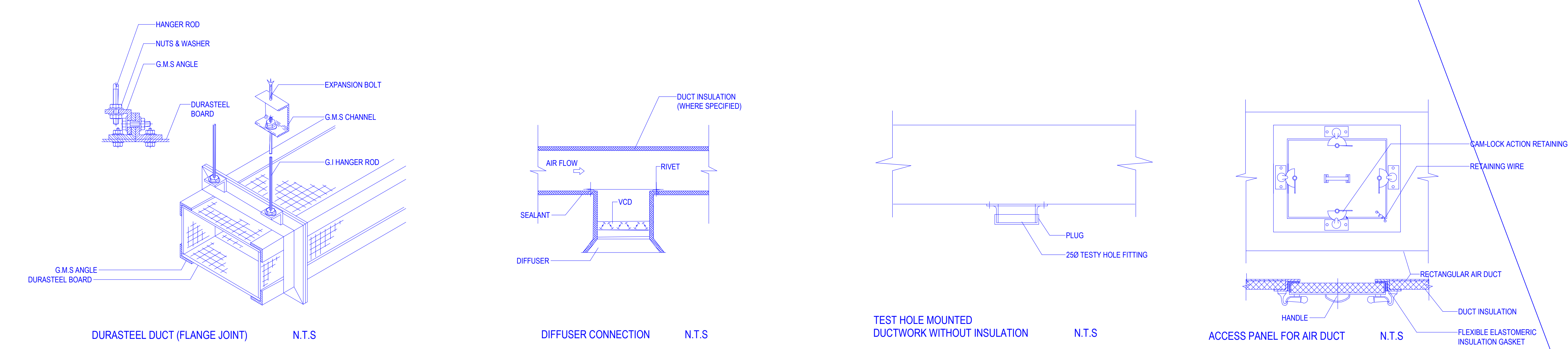
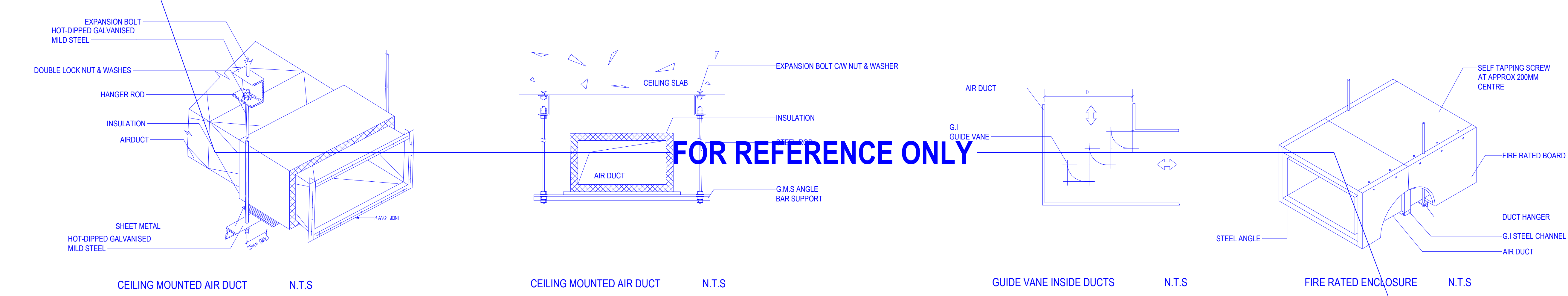
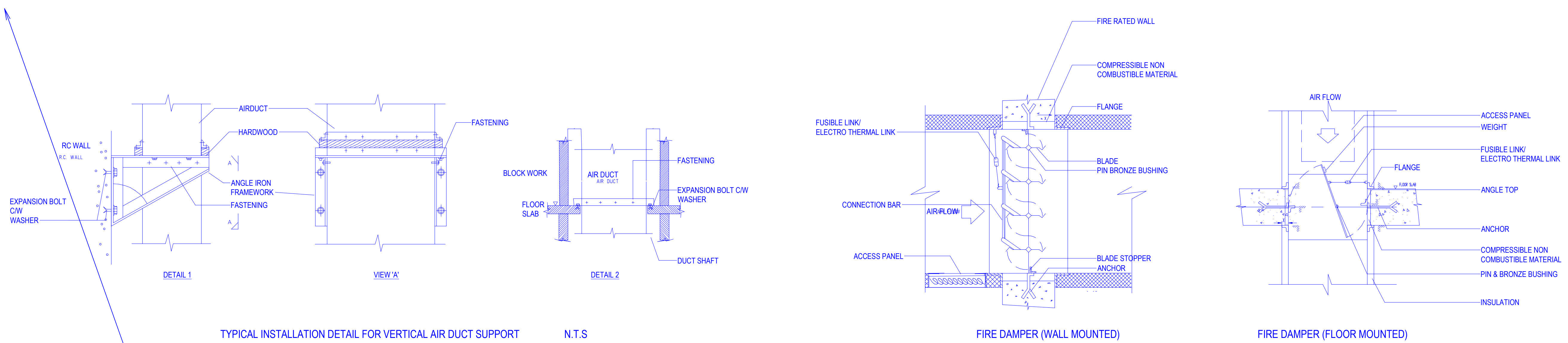





DETAIL OF FAN COIL UNIT INSIDE LIFT LOBBY & TOILET N.T.S



CEILING MOUNTED FAN COIL UNIT N.T.S

B.D. REFERENCE		
F.S.D. REFERENCE		
W.W.O. REFERENCE		
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CLIENT LOGO		
CONSULTANT LOGO		
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0	1ST SUBMISSION	08-03-2021
REV	DESCRIPTION	DATE
	NAME AND DESIGNATION	DATE
APPROVED	APPROVER	dd/mm/yyyy
CHECKED	CHECKER	dd/mm/yyyy
DESIGNED	DESIGNER	dd/mm/yyyy
DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
INSTALLATION DETAILS (SHEET 2 OF 3)		
		
PROJECT NUMBER	PXXXXX	
PURPOSE OF ISSUE	PLANNING SUBMISSION	
SCALE	1 : 80 A1	
DRAWING NO.	PXXXXX / AC601	REV
		0



B.D.REFERENCE		
F.S.D.REFERENCE		
W.W.O.REFERENCE		
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CLIENT LOGO	 CONSTRUCTION INDUSTRY COUNCIL 建造業議會	
CONSULTANT LOGO	 CONSTRUCTION INDUSTRY COUNCIL 建造業議會	
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0	1ST SUBMISSION	08-03-2021
REV	DESCRIPTION	DATE
	NAME AND DESIGNATION	DATE
APPROVED	APPROVER	dd/mm/yyyy
CHECKED	CHECKER	dd/mm/yyyy
DESIGNED	DESIGNER	dd/mm/yyyy
DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
INSTALLATION DETAILS (SHEET 3 OF 3)		
		
PROJECT NUMBER PXXXXX		
PURPOSE OF ISSUE PLANNING SUBMISSION		
SCALE 1 : 40 A1		
DRAWING NO. PXXXXX / AC602		
		REV 0

GENERAL NOTES

1. THE L.V. SCHEMATIC WIRING DIAGRAM AND THE ASSOCIATED POWER DISTRIBUTION ARRANGEMENT AS SHOWN ON THE DISTRIBUTION BOARD DETAILED DRAWINGS ARE FOR INDICATIVE PURPOSE ONLY. THE SUB-CONTRACTOR SHALL BASED ON THE MINIMUM REQUIREMENTS AS SHOWN ON THIS SET OF DRAWINGS TO DEVELOPE HIS DESIGN IN MORE DETAILS TO SUIT THE SITE CONDITION, AND TO SUBMIT HIS DESIGN DRAWINGS (AS SHOP DRAWINGS) FOR ENGINEER'S AND CLP'S APPROVAL PRIOR TO MATERIAL ORDERING AND INSTALLATION.
2. THE ELECTRICAL SYSTEM DESIGN AND INSTALLATION CARRIED OUT BY THE SUB-CONTRACTOR SHALL FULLY COMPLY WITH THE LATEST EDITION OF THE CODE OF PRACTICE FOR THE ELECTRICITY (WIRING) REGULATIONS ISSUED BY THE ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT (EMSD), THE SUPPLY RULES OF THE POWER SUPPLY COMPANY AND ALL RELEVANT STATUTORY REQUIREMENTS.
3. THE MEANS FOR PROTECTION AGAINST INDIRECT CONTACT IS BY EARTHED EQUIPOTENTIAL BONDING AND AUTOMATIC DISCONNECTION OF SUPPLY, IN ACCORDANCE WITH THE LATEST EDITION OF THE CODE OF PRACTICE FOR THE ELECTRICITY (WIRING) REGULATIONS ISSUED BY THE EMSD.
4. THE LOCATION AND QUANTITY OF EARTH PIT(S) AS SHOWN ON THE DRAWINGS IS FOR INDICATIVE ONLY. THE SUB-CONTRACTOR SHALL PROVIDE PROPER EARTHING SYSTEM AS REQUIRED, AND THE NUMBER OF EARTH ELECTRODE(S) AND THE RESULTANT EARTH FAULT LOOP IMPEDANCE SHALL BE SUCH THAT THE EARTH FAULT CURRENT IS CAPABLE TO ACTUATE THE PROTECTION DEVICES AND CLEAR THE FAULT WITHIN 5 SECONDS FOR ANY EARTH FAULT OCCURS AT THE MAINS AND DISTRIBUTION CIRCUITS. UNLESS OTHERWISE SPECIFIED, THE QUANTITY, SIZE AND TYPE OF ALL POWER DISTRIBUTION CABLES AS INDICATED ON THE DRAWINGS SHALL REFER TO THE FOLLOWING NOTATION:
5.

X: DENOTES THE QUANTITY OF CABLES

Y: DENOTES THE TYPE OF CABLES (SEE BELOW):

A = 4/C XLPE/SWA/PVC COPPER CABLE
B = 3/C XLPE/SWA/PVC COPPER CABLE
C = 2/C XLPE/SWA/PVC COPPER CABLE
D = 1/C XLPE/PVC COPPER CABLE
E = 1/C PVC COPPER CABLE
F = 4/C FR/LSOH/SW/LSOH FIRE RESISTANT COPPER CABLE
G = 3/C FR/LSOH/SW/LSOH FIRE RESISTANT COPPER CABLE
H = 2/C FR/LSOH/SW/LSOH FIRE RESISTANT COPPER CABLE
J = 1/C FR/LSOH/LSOH FIRE RESISTANT COPPER CABLE
K = 1/C FR/LSOH FIRE RESISTANT COPPER CABLE
L = 1/C XLPE/PVC COPPER CABLE C/W PRE-FABRICATED BRANCHED CABLE JOINTS

LEGENDS

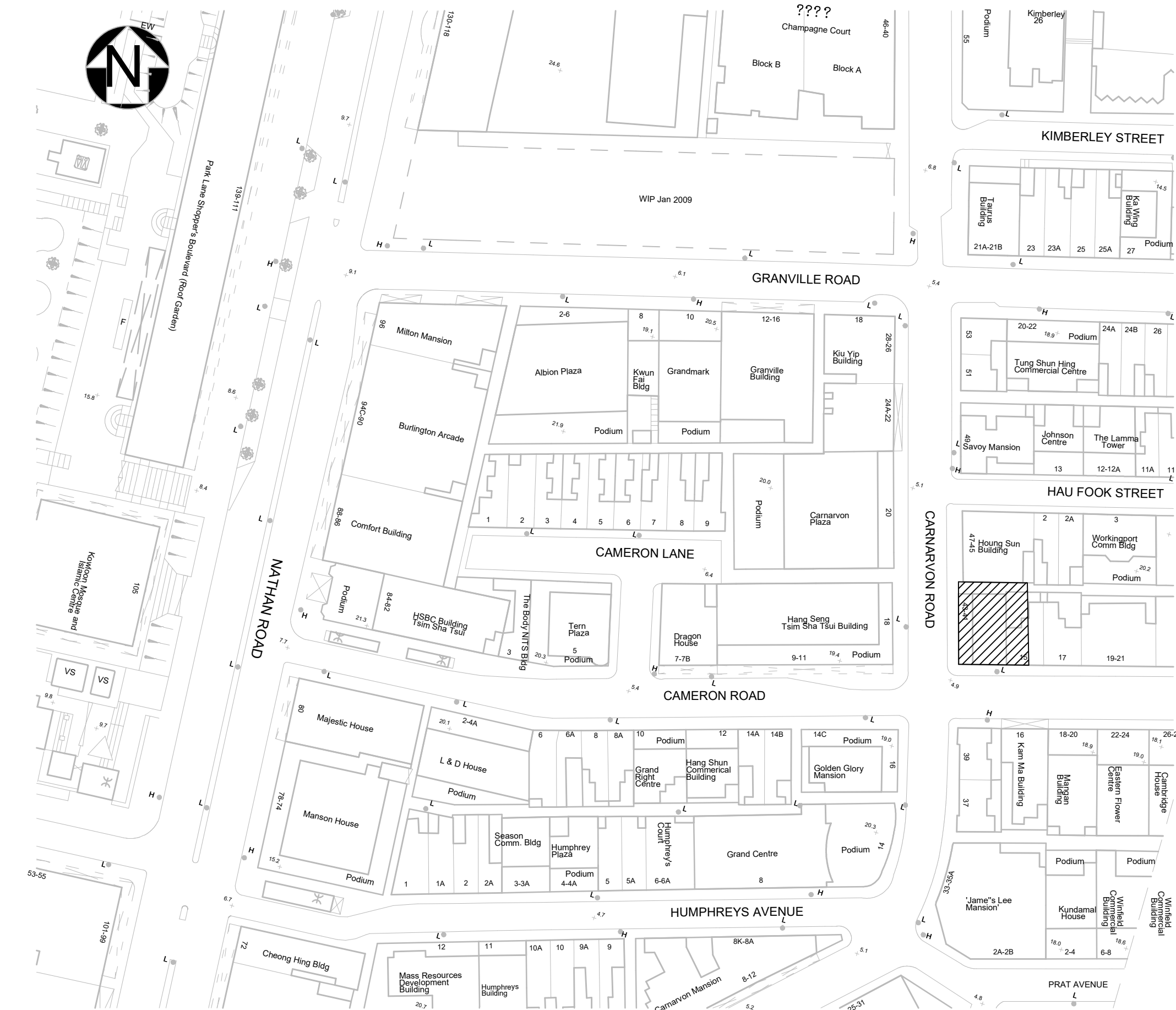
SYMBOL	FRONT	DESCRIPTION
		DRAW-OUT TYPE AIR CIRCUIT BREAKER (ACB) WITHOUT BUILT-IN OVERLOAD AND SHORT-CIRCUIT PROTECTION BUT C/W SHUNT-TRIP FACILITY, WHERE THE SYMBOL: - 'X' DENOTES THE NOMINAL CURRENT (In) SET BY PROTECTION RELAYS - 'Y' DENOTES THE FRAME SIZE OF THE AIR CIRCUIT BREAKER
		AIR CIRCUIT BREAKER (ACB) C/W ADJUSTABLE SHORT-CIRCUIT & OVER-CURRENT PROTECTION SETTINGS AND SHUNT-TRIP FACILITY, WHERE THE SYMBOL: - 'X' DENOTES THE SETTING NOMINAL CURRENT (In) RATING - 'Y' DENOTES THE FRAME SIZE OF THE AIR CIRCUIT BREAKER
		DRAW-OUT TYPE MOULDED CASE CIRCUIT BREAKER (MCCB) C/W ADJUSTABLE SHORT-CIRCUIT & OVER-CURRENT PROTECTION RATINGS AND SHUNT-TRIP FACILITY, WHERE THE SYMBOL: - 'X' DENOTES THE SETTING NOMINAL CURRENT (In) RATING - 'Y' DENOTES THE FRAME SIZE OF THE MOULDED CASE CIRCUIT BREAKER
	IS	13A SWITCHED SOCKET OUTLET
	IS	13A SWITCHED FUSED SPUR UNIT
	IS	10A 1-WAY LIGHTING SWITCH
	IS	10A 2-WAY LIGHTING SWITCH
	IS	ISOLATING SWITCH
		CONTROL PANEL
		MCB D.B.

FOR REFERENCE ONLY

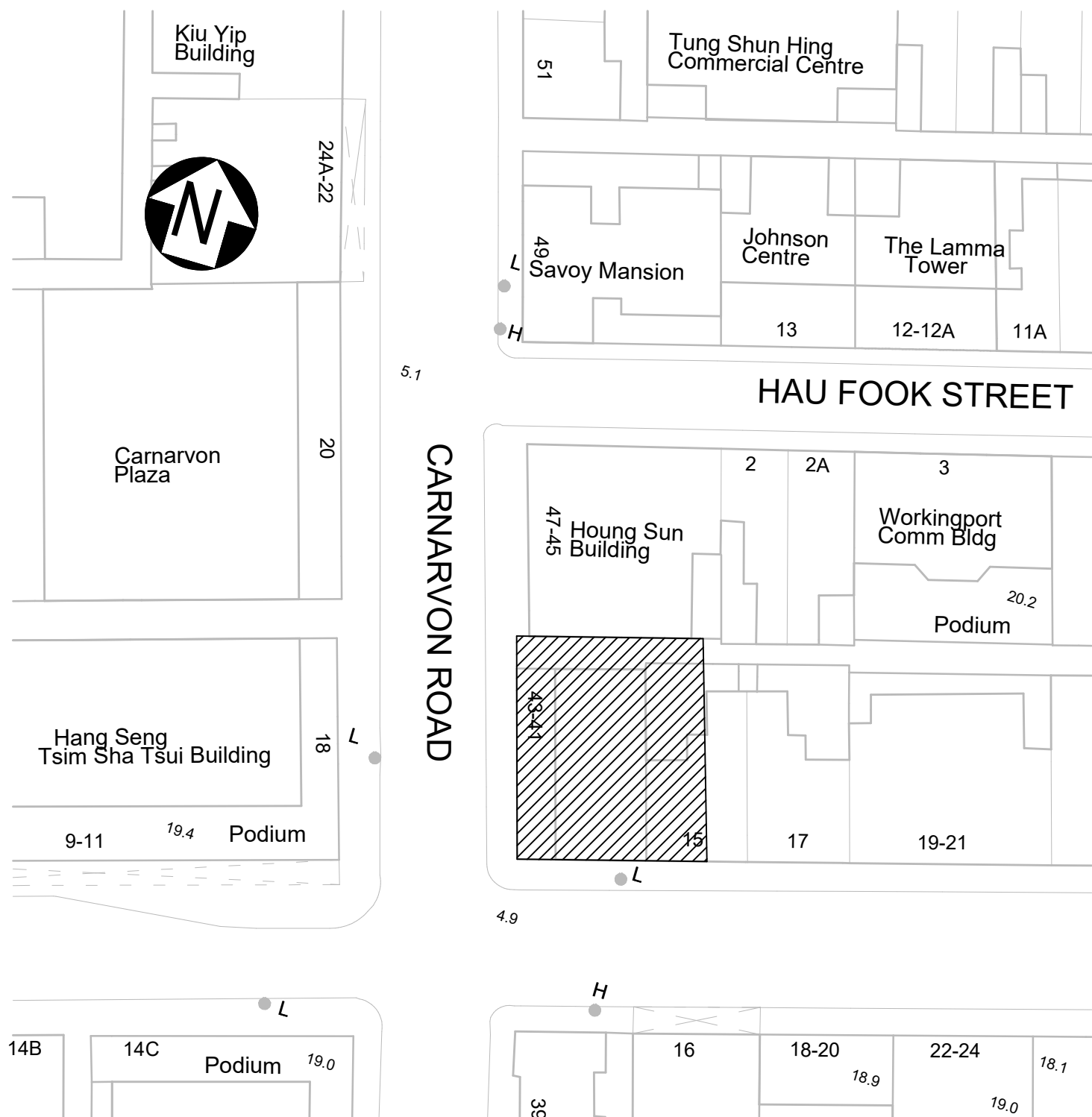
CABLE SIZE SCHEDULE-A				
PROTECTIVE NOMINAL CURRENT RATING (In)	MINIMUM CABLE SIZE FOR FINAL CIRCUIT ENCLOSED IN CONDUIT / TRUNKING			
	SINGLE-PHASE CIRCUIT		THREE-PHASE CIRCUIT	
	LIVE & NEUTRAL CONDUCTORS	CIRCUIT PROTECTIVE CONDUCTORS (C.P.C.)	LIVE & NEUTRAL CONDUCTORS	CIRCUIT PROTECTIVE CONDUCTORS (C.P.C.)
6A	2x1.5mm ²	1x1.5mm ²	4x2.5mm ²	1x2.5mm ²
10A	2x2.5mm ²	1x2.5mm ²	4x2.5mm ²	1x2.5mm ²
16A	2x2.5mm ²	1x2.5mm ²	4x4.0mm ²	1x4.0mm ²
20A	2x4.0mm ²	1x4.0mm ²	4x4.0mm ²	1x4.0mm ²
32A	2x6.0mm ²	1x6.0mm ²	4x10.0mm ²	1x10.0mm ²
32A (RADIAL)	2x6.0mm ²	1x6.0mm ²	4x10.0mm ²	1x10.0mm ²
32A (RING)	4x2.5mm ²	2x2.5mm ²	-	-
40A	2x10.0mm ²	1x10.0mm ²	4x10.0mm ²	1x10.0mm ²
50A	2x16.0mm ²	1x16.0mm ²	4x16.0mm ²	1x16.0mm ²
63A	2x25.0mm ²	1x16.0mm ²	4x25.0mm ²	1x16.0mm ²
80A	2x35.0mm ²	1x16.0mm ²	4x35.0mm ²	1x16.0mm ²
100A	-	-	4x50.0mm ²	1x25.0mm ²
125A	-	-	4x70.0mm ²	1x35.0mm ²
160A	-	-	4x120mm ²	1x70.0mm ²
200A	-	-	4x150mm ²	1x95.0mm ²

DRAWING LIST

DRAWING NUMBER	DRAWING TITLE	REVISION
EL001	GENERAL NOTES, LEGENDS, ABBREVIATION AND DRAWING LIST	0
EL100	SCHEMATIC	0
EL101	ELECTRICAL LAYOUT PLAN AT LEVEL GF, L01, L02, L03	0
EL102	ELECTRICAL LAYOUT PLAN AT LEVEL L04-L15, RF, URF, TRF	0
EL103	LIGHTING LAYOUT PLAN AT LEVEL GF, L01, L02, L03	0
EL104	LIGHTING LAYOUT PLAN AT LEVEL L04-L15, RF, URF, TRF	0
EL400	TRANSFORMER ROOM LAYOUT AT LEVEL GF	0
EL401	L.V. SWITCH ROOM LAYOUT AT LEVEL GF	0
EL402	EMERGENCY GENERATOR ROOM LAYOUT AND SECTIONAL DETAILS	0
EL403	TBE ROOM LAYOUT AT LEVEL GF	0



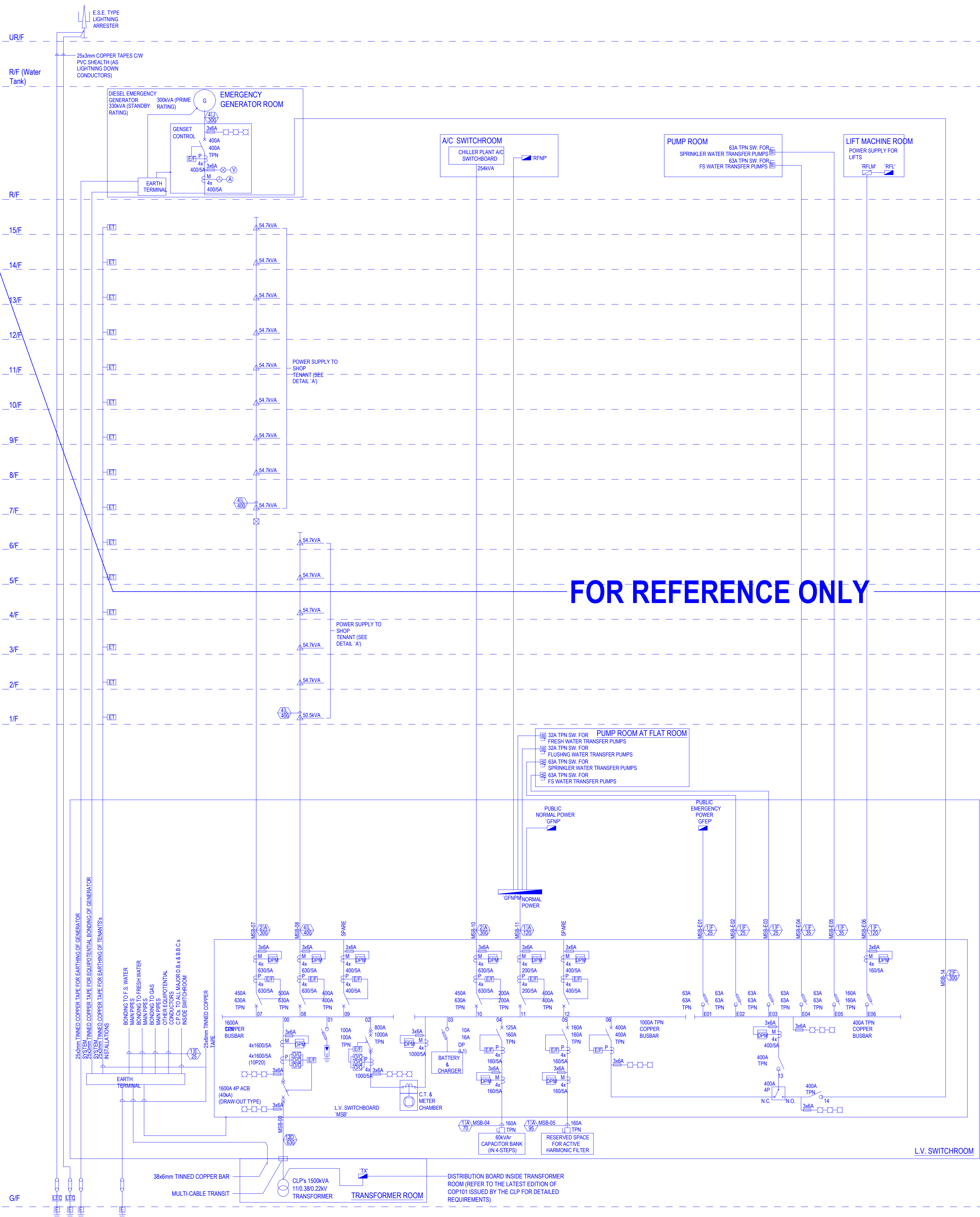
2 LOCATION PLAN
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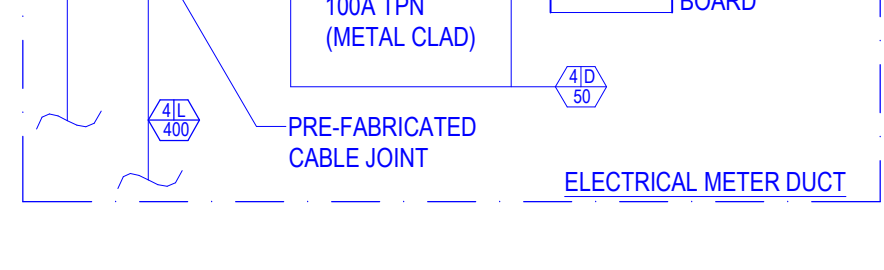
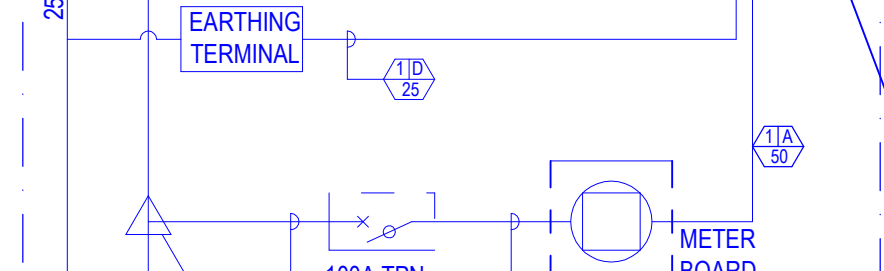
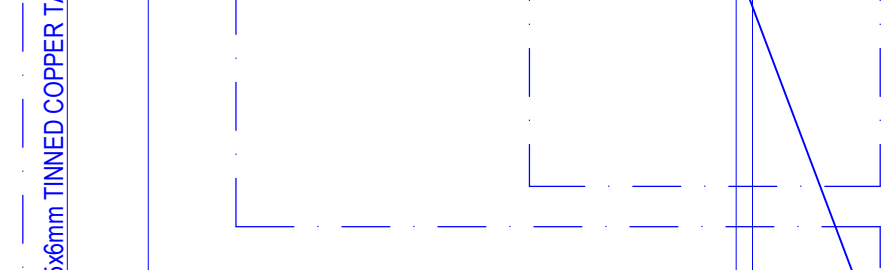
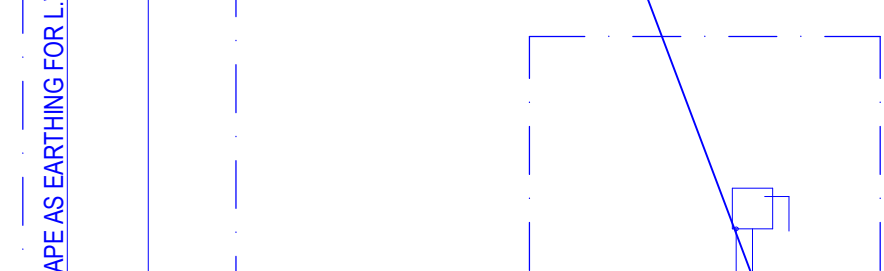
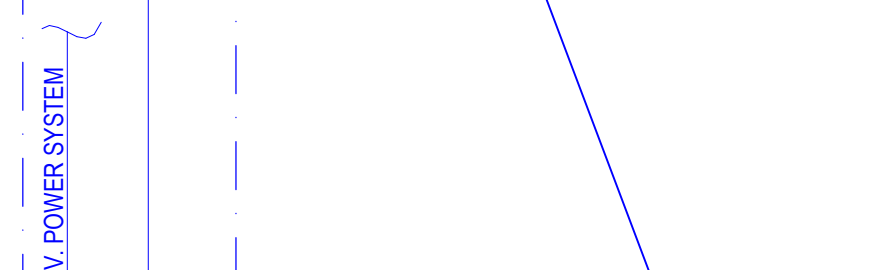
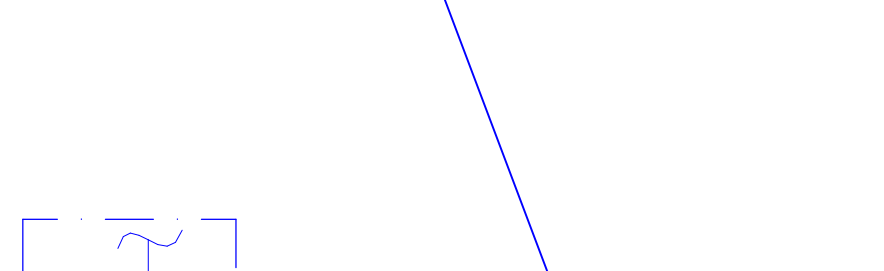
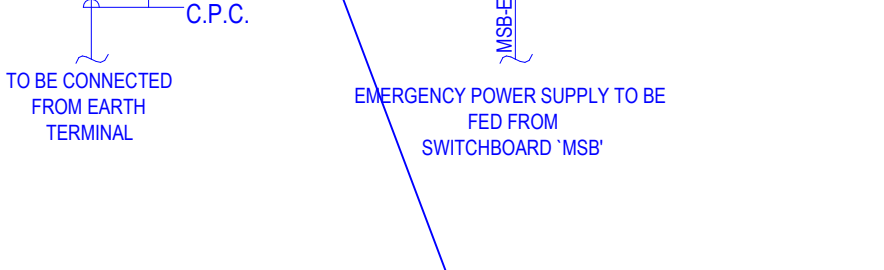
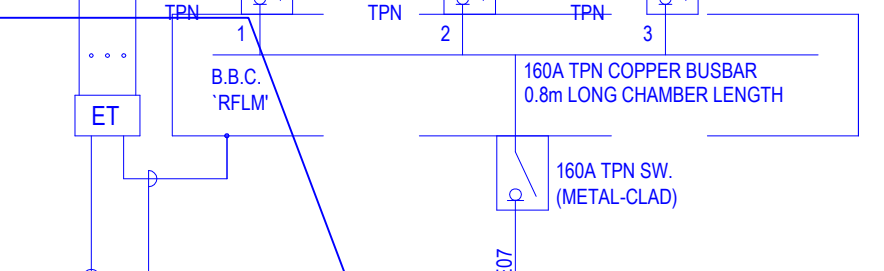
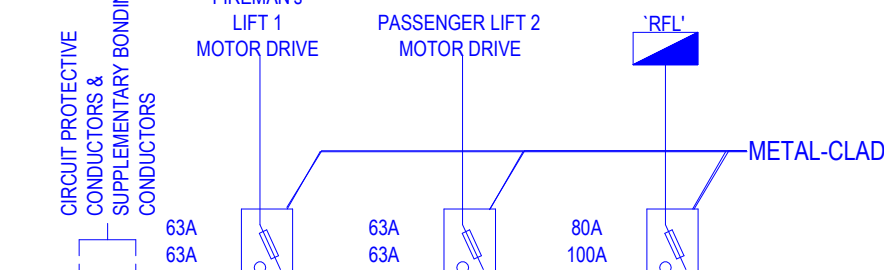
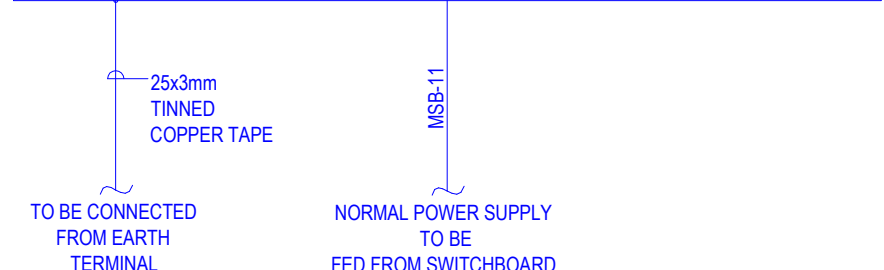
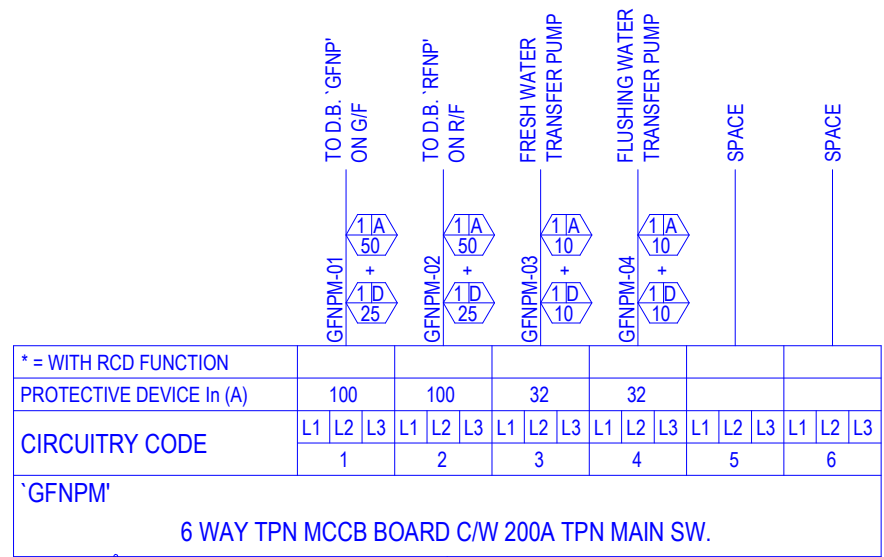
1 SITE PLAN
1:500

B.D. REFERENCE		
F.S.D. REFERENCE		
W.W.O. REFERENCE		
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0 1ST SUBMISSION 08-03-2021		
REV DESCRIPTION DATE		
NAME AND DESIGNATION DATE		
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CHECKED	CHECKER	dd/mm/yyyy
DESIGNED	DESIGNER	dd/mm/yyyy
DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
GENERAL, NOTES, LEGENDS, ABBREVIATIONS & DRAWING LIST		
PROJECT NUMBER PXXXXX		
PURPOSE OF ISSUE PLANNING SUBMISSION		
SCALE As indicated A1		
DRAWING NO. PXXXXX / EL001		
REV 0		





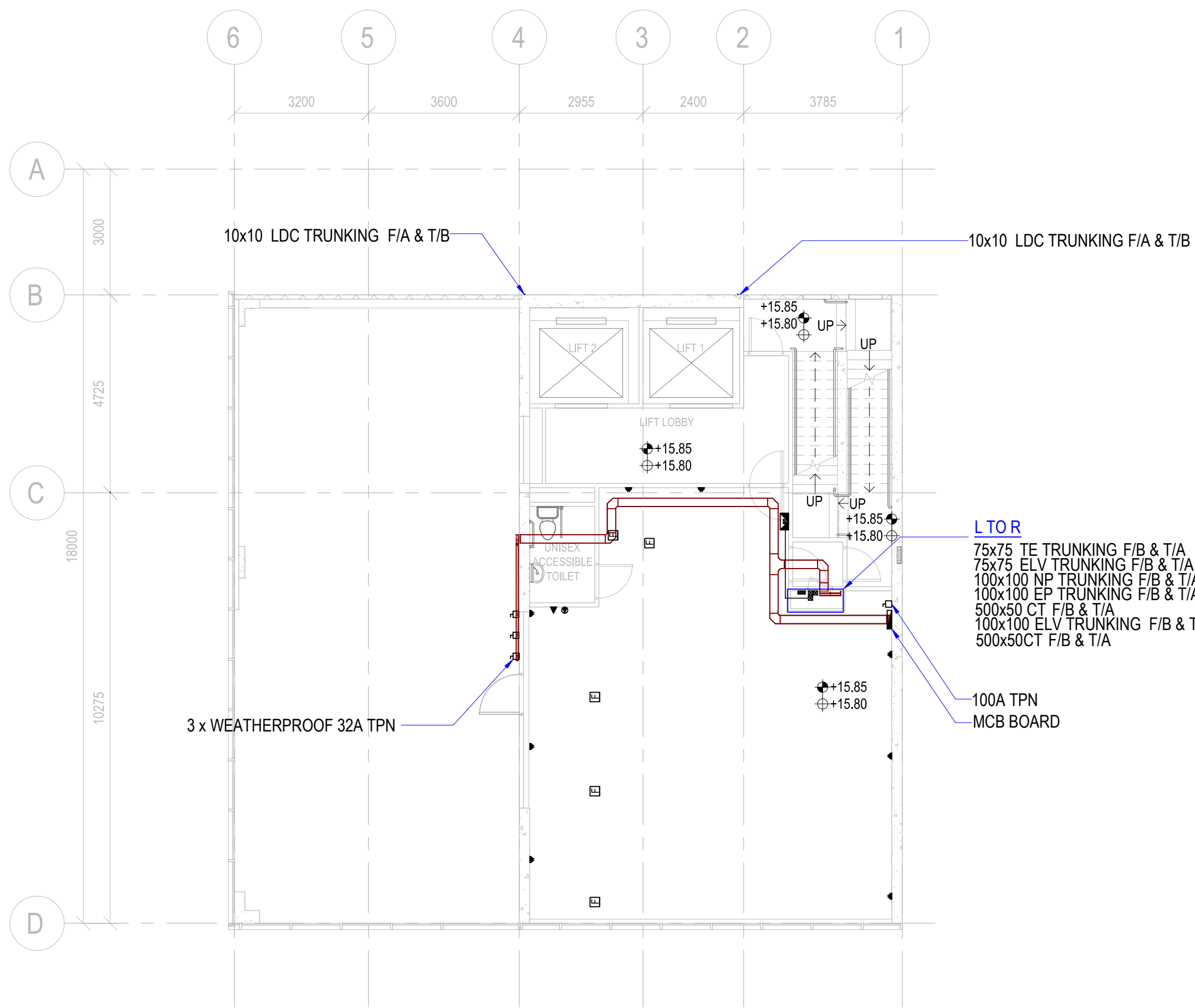
1 SCHEMATIC LV DIAGRAM
1:100



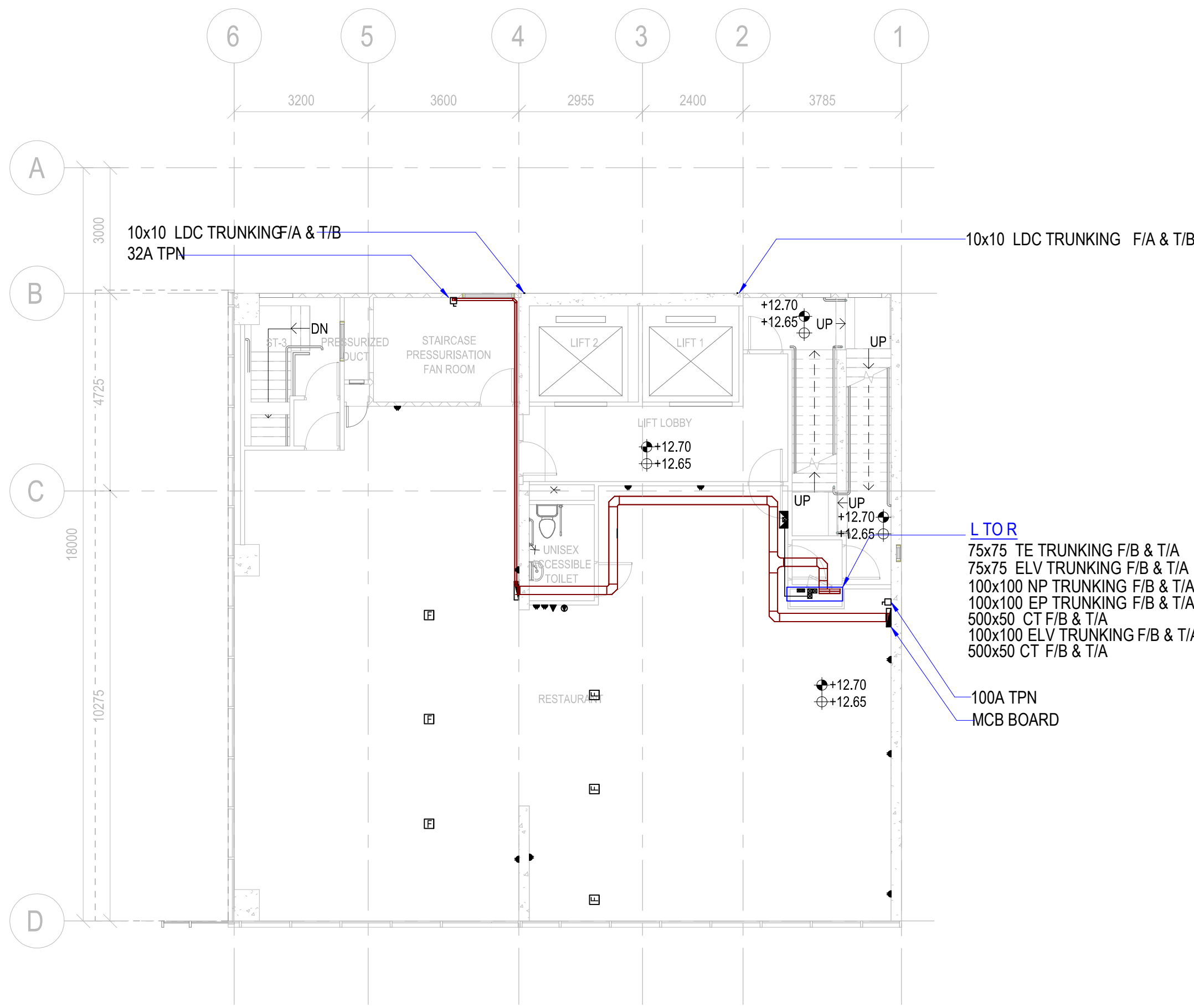
2 SCHEMATIC LV DIAGRAM
1:100

B.D. REFERENCE		
F.S.D. REFERENCE		
W.W.O. REFERENCE		
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REV DESCRIPTION DATE		
NAME AND DESIGNATION DATE		
APPROVED APPROVER dd/mm/yyyy		
CHECKED CHECKER dd/mm/yyyy		
DESIGNED DESIGNER dd/mm/yyyy		
DRAWN BIM MODELLER dd/mm/yyyy		
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
SCHEMATIC		
PROJECT NUMBER PXXXXX		
PURPOSE OF ISSUE PLANNING SUBMISSION		
SCALE 1:100 A1		
DRAWING NO. PXXXXX / EL100		
REV 0		

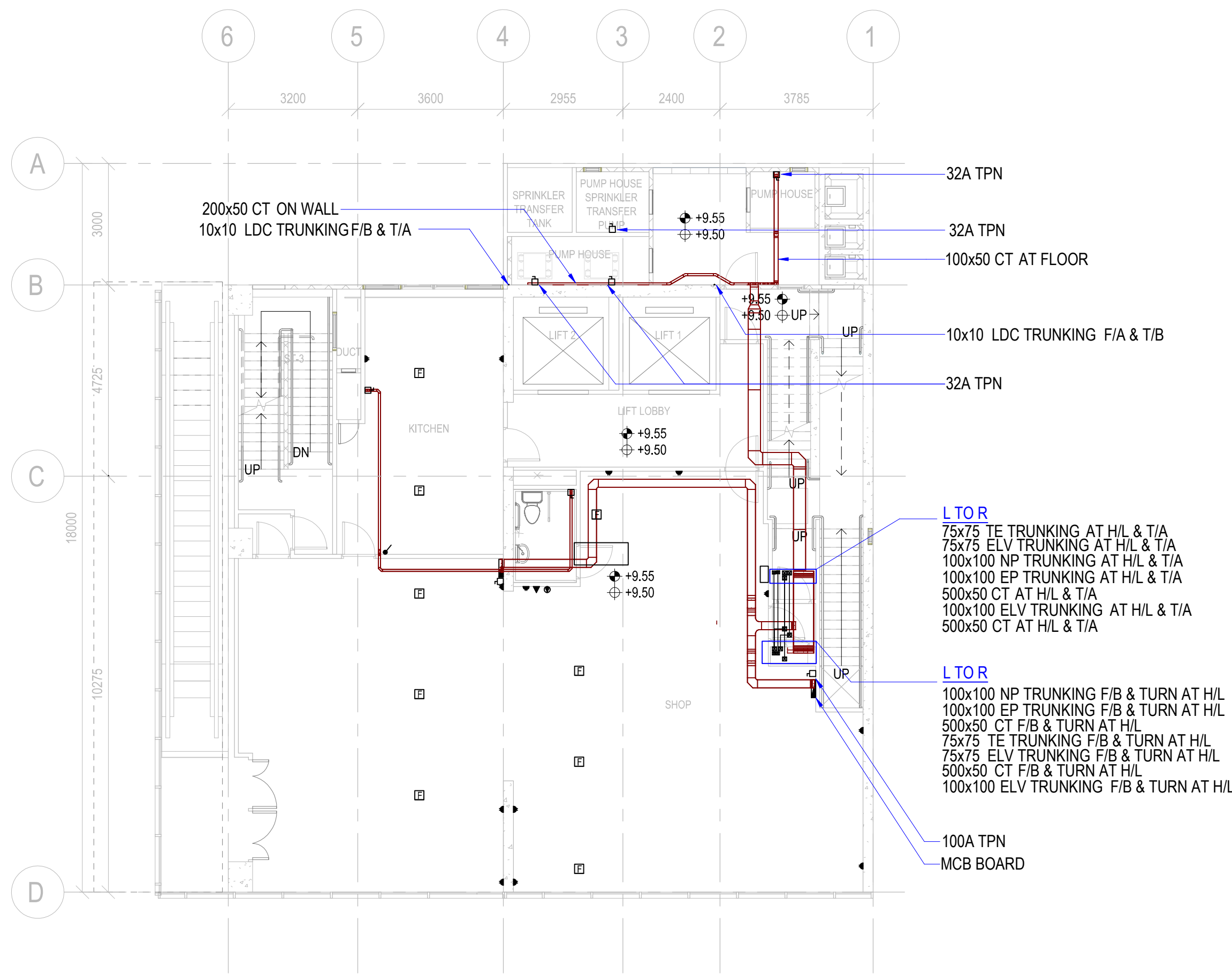
4 L03 PLAN
1:100



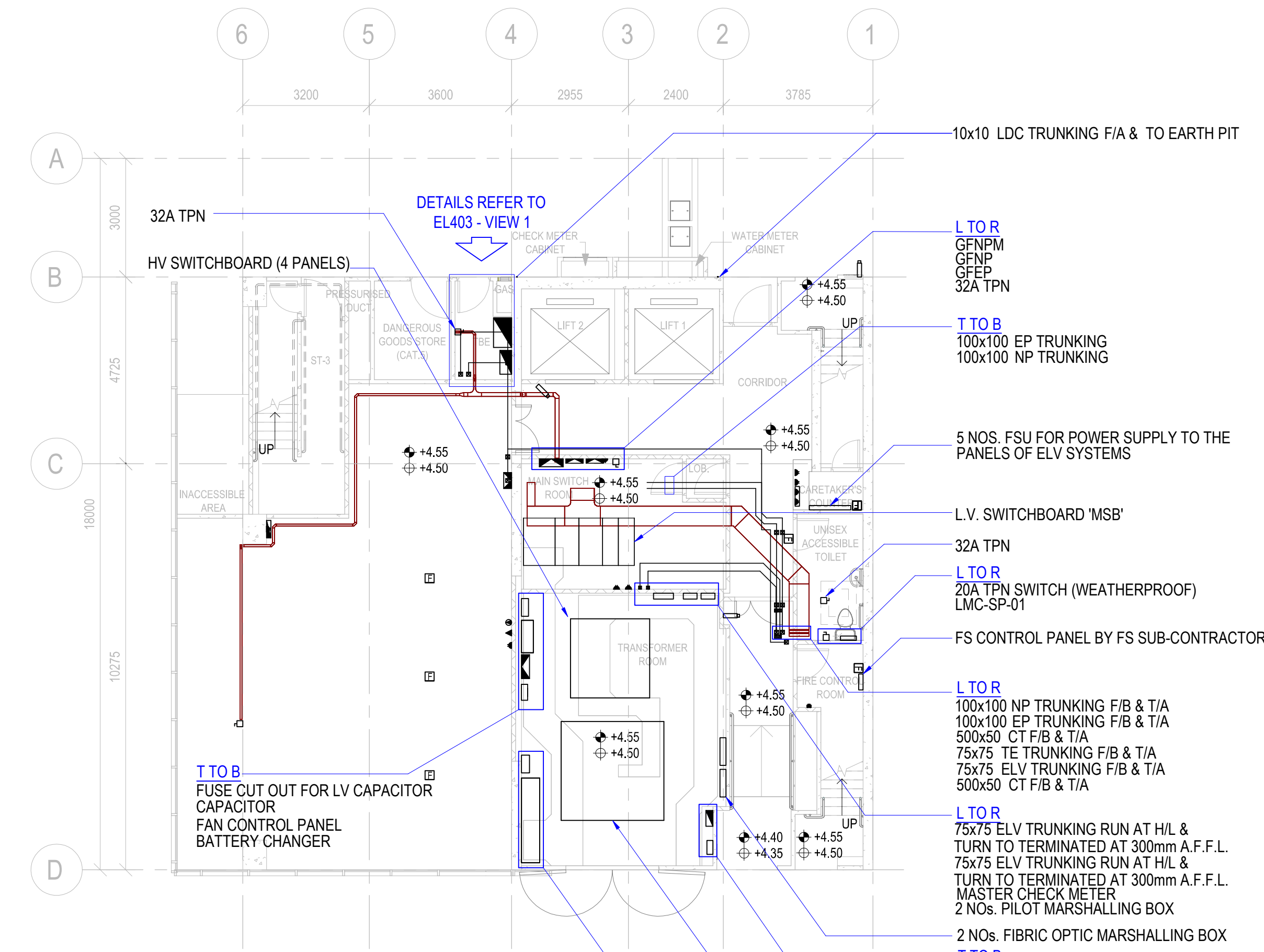
3 L02 PLAN
1:100



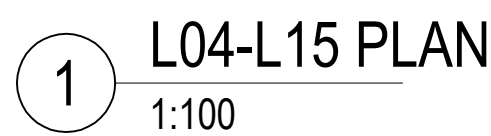
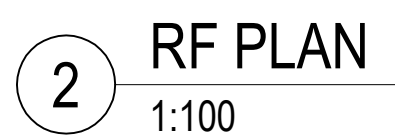
2 L01 PLAN
1:100



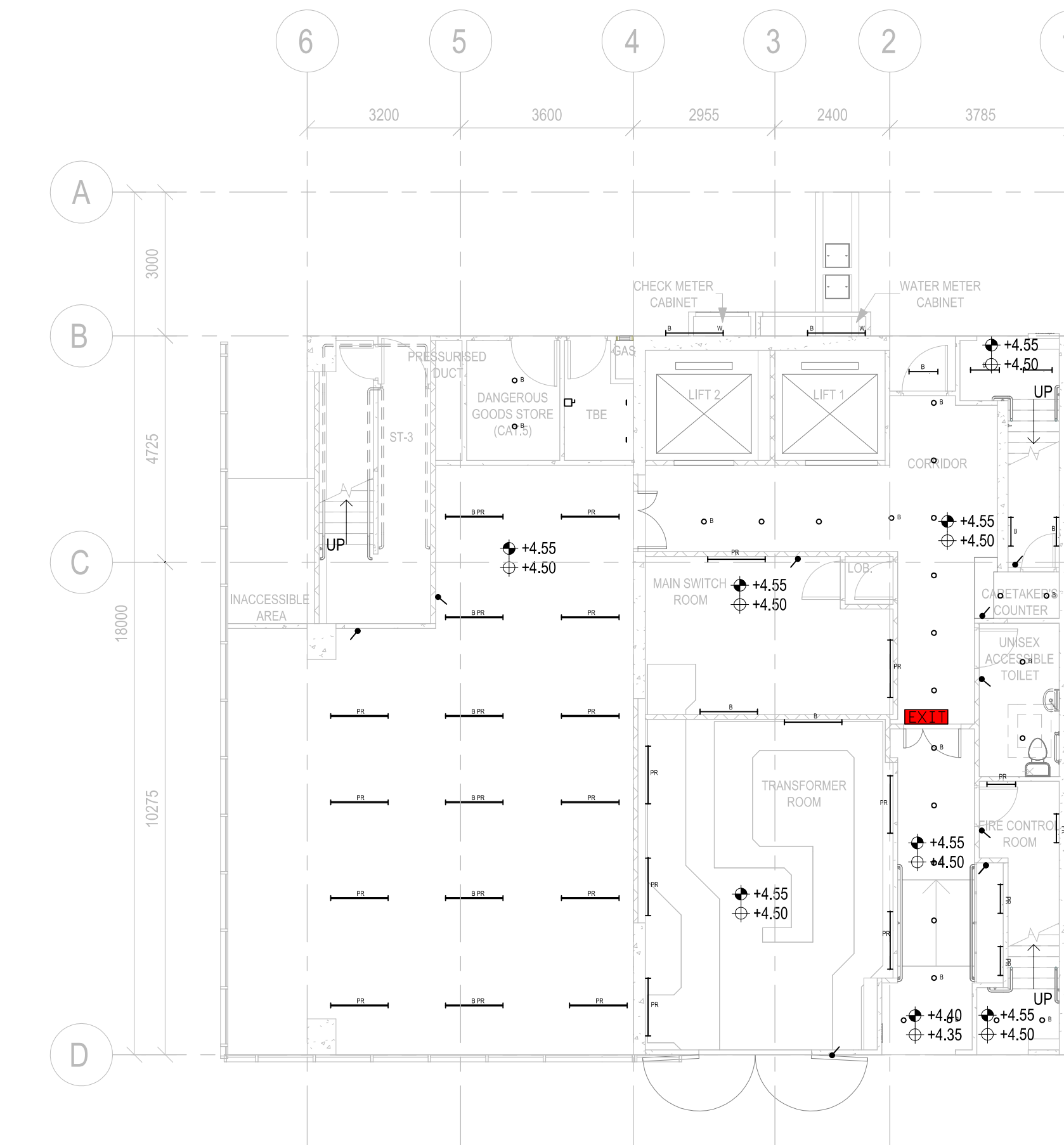
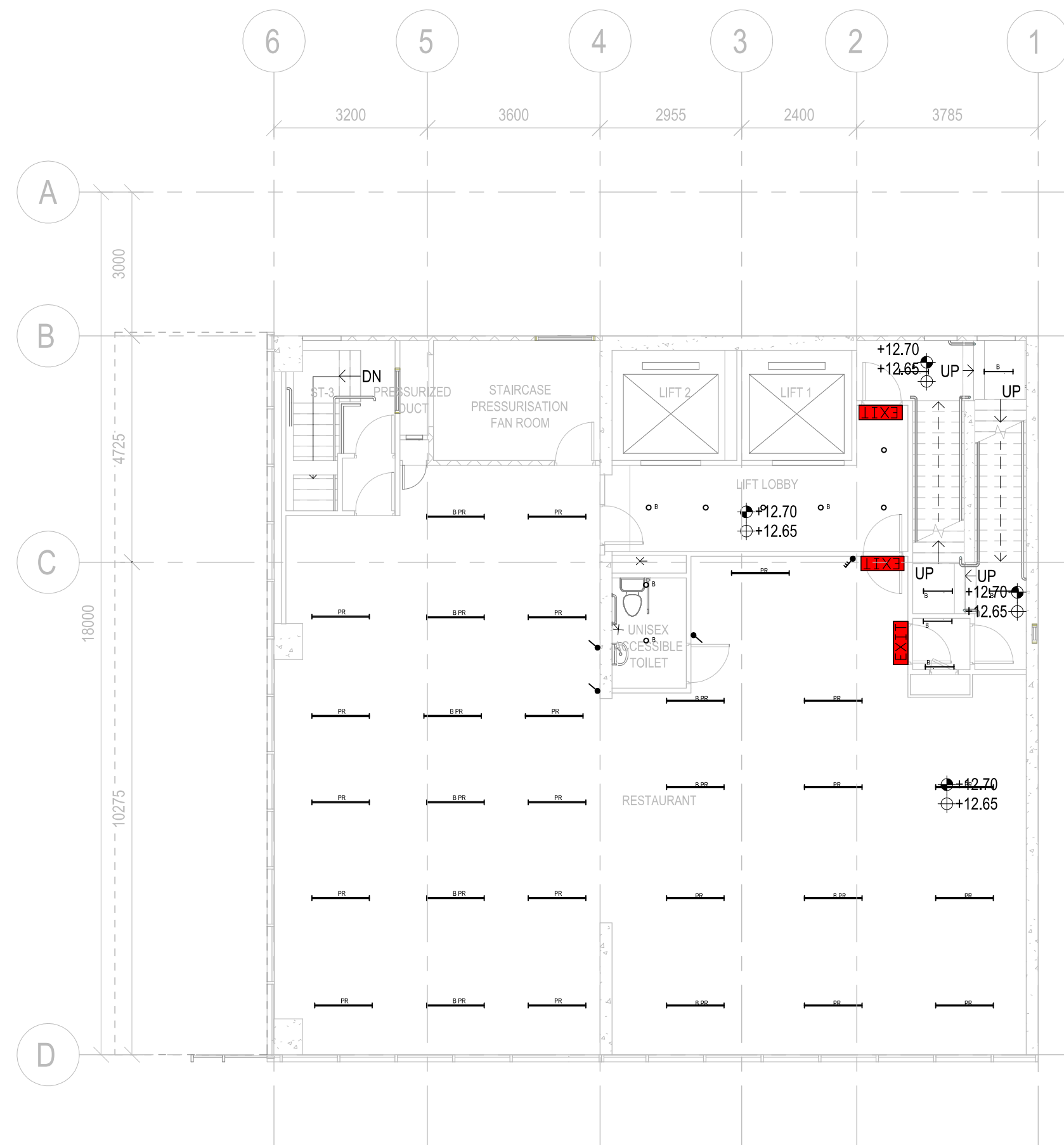
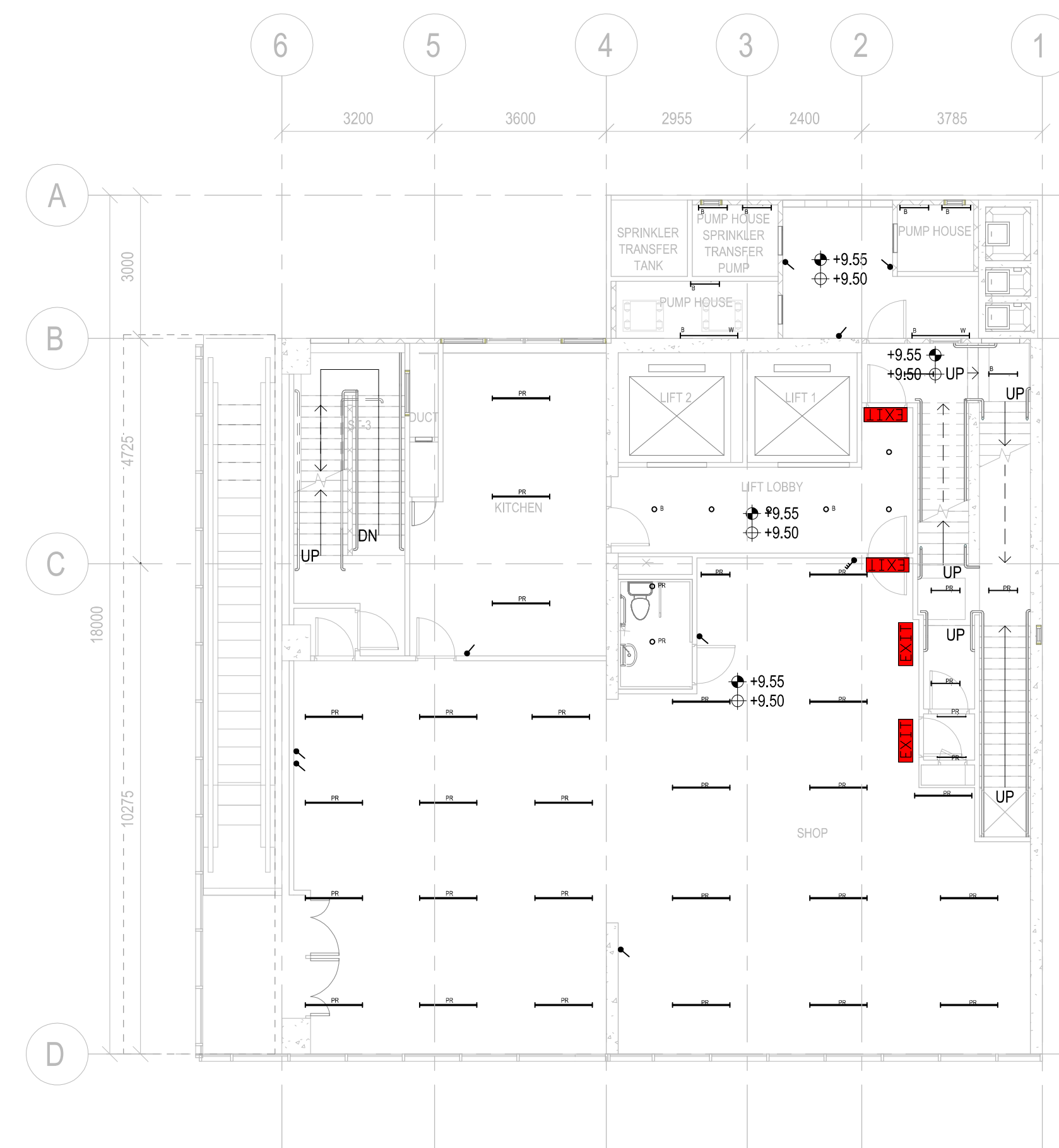
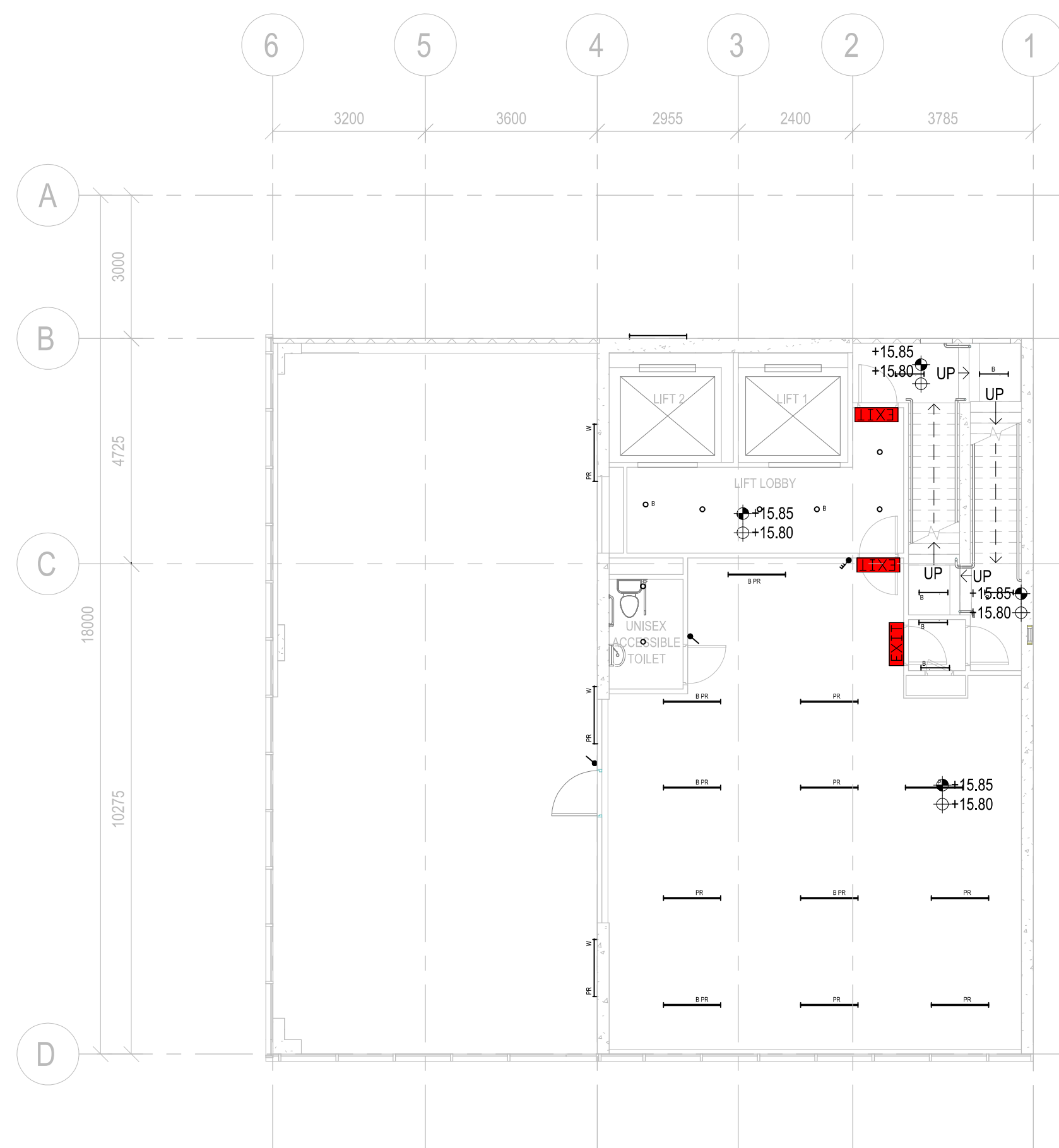
1 GF PLAN
1:100






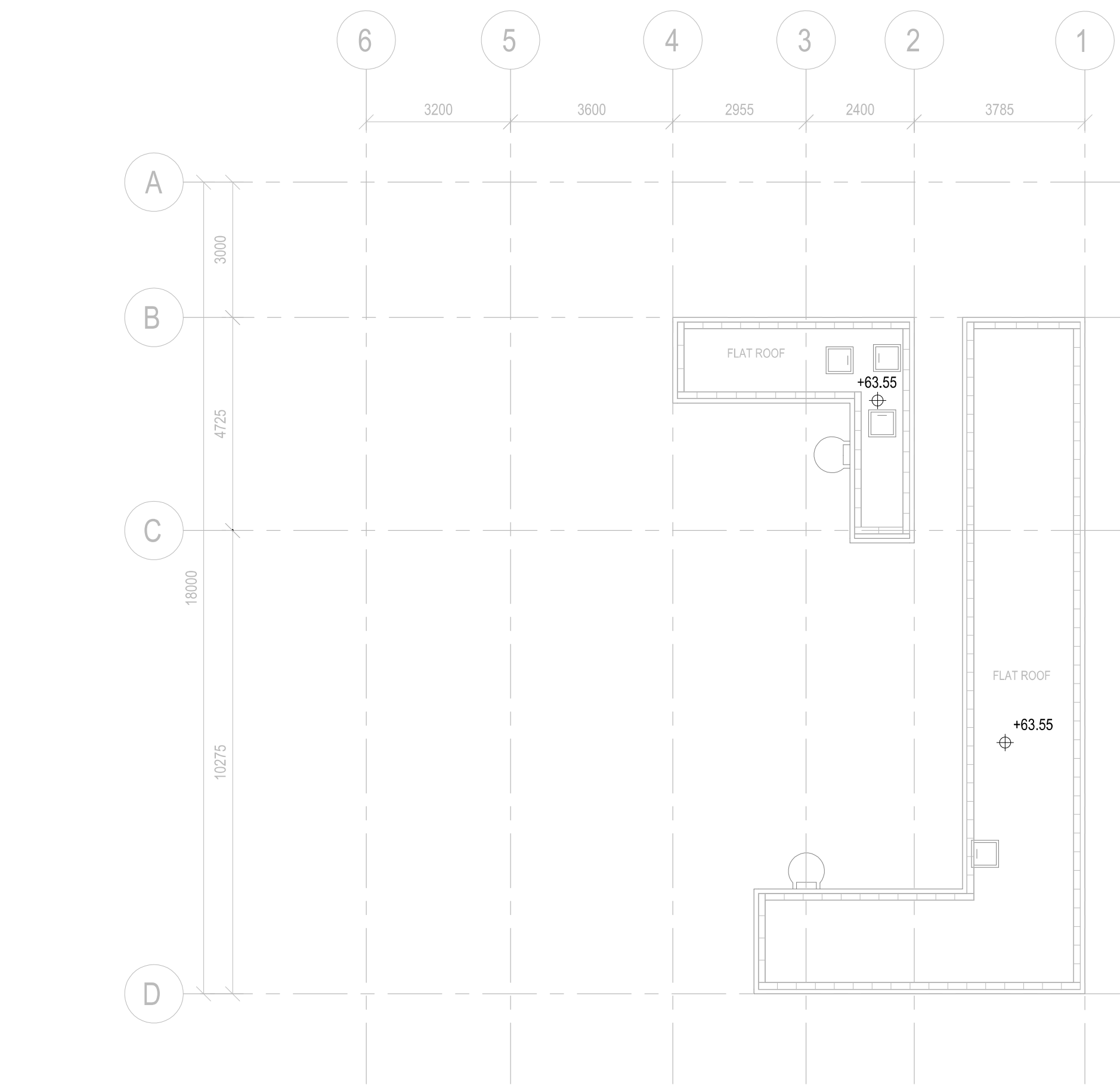
B.D. REFERENCE		
F.S.D. REFERENCE		
W.W.O. REFERENCE		
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CONSULTANT LOGO		
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CIC SAMPLE PROJECT		
DRAWING TITLE		
ELECTRICAL LAYOUT PLAN AT LEVEL GF, L01, L02, L03		
PROJECT NUMBER		
PXXXXX		
PURPOSE OF ISSUE		
PLANNING SUBMISSION		
SCALE		
1:100 A1		
DRAWING NO.		
PXXXXX / EL101		
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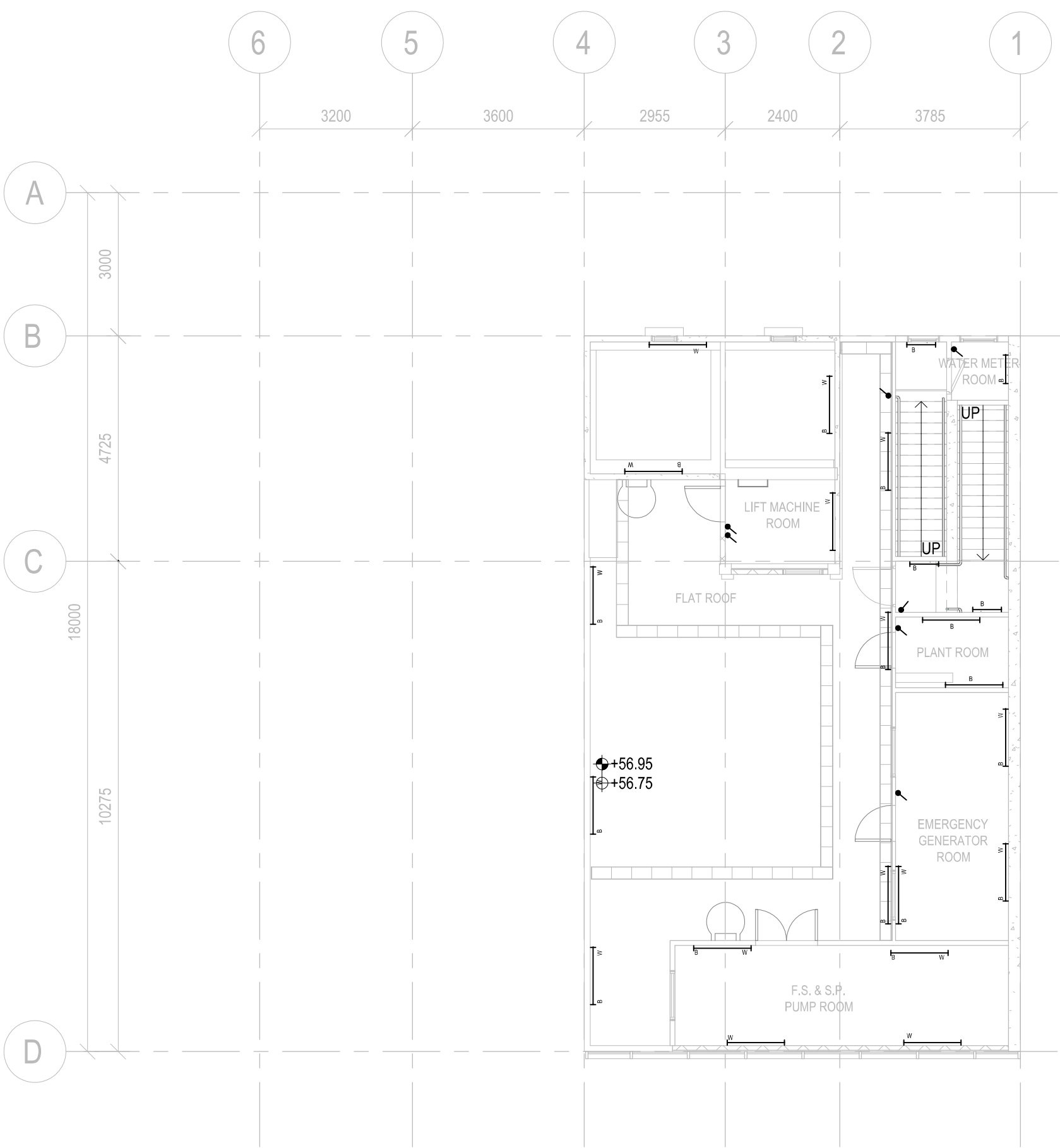
B.D REFERENCE		
F.S.D REFERENCE		
W.W.G REFERENCE		
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PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
ELECTRICAL LAYOUT PLAN AT LEVEL L04-L15, RF, URF, TRF		
PROJECT NUMBER		
PXXXXX		
PURPOSE OF ISSUE		
PLANNING SUBMISSION		
SCALE		
1 : 100 A1		
DRAWING NO.		
PXXXXX / EL102		
REV		
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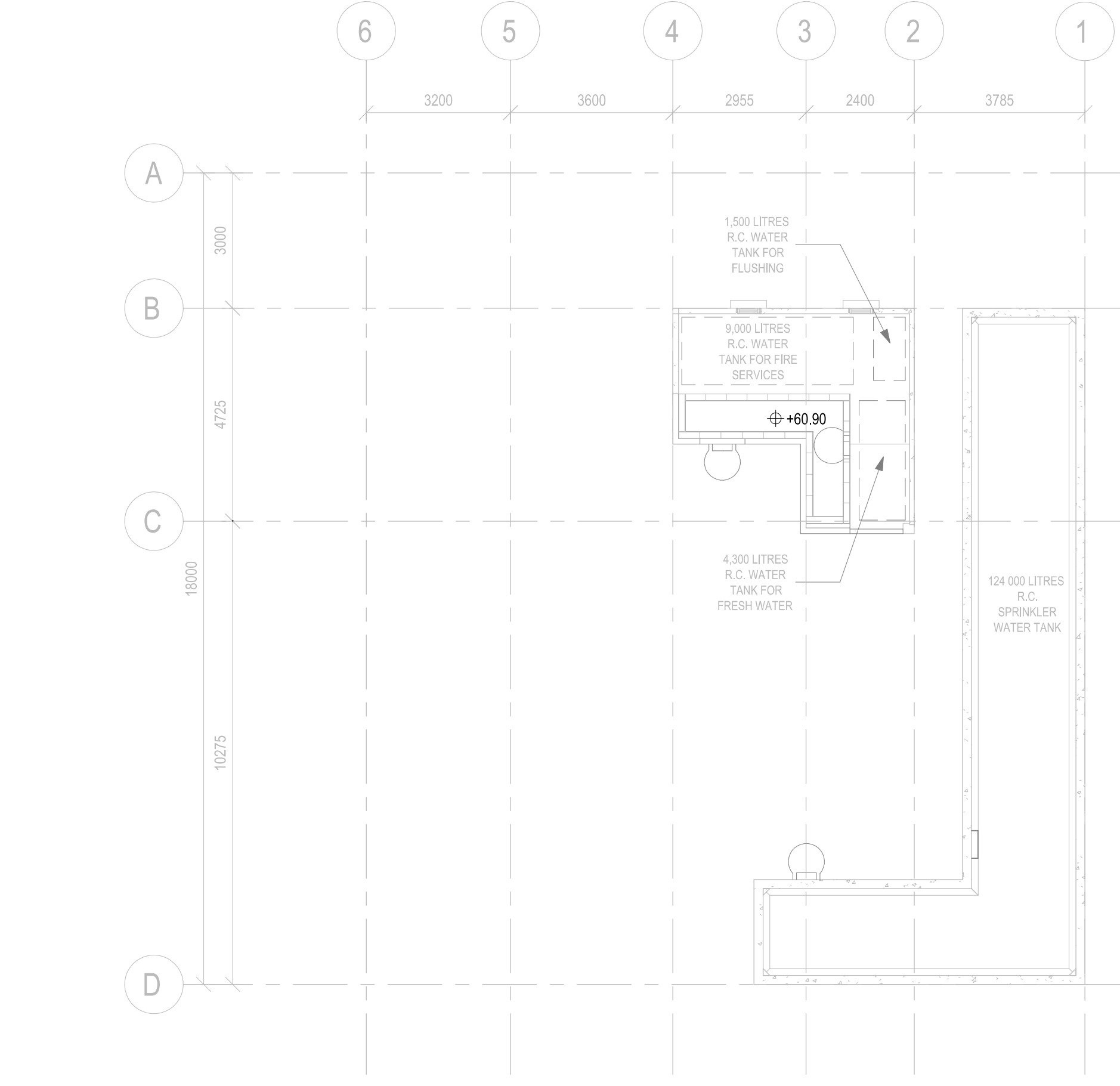
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CIC SAMPLE PROJECT		
DRAWING TITLE		
LIGHTNING LAYOUT PLAN AT LEVEL GF, L01, L02, L03		
		
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PURPOSE OF ISSUE	PLANNING SUBMISSION	
SCALE	1 : 100 A1	
DRAWING NO.	PXXXXX / EL103	REV
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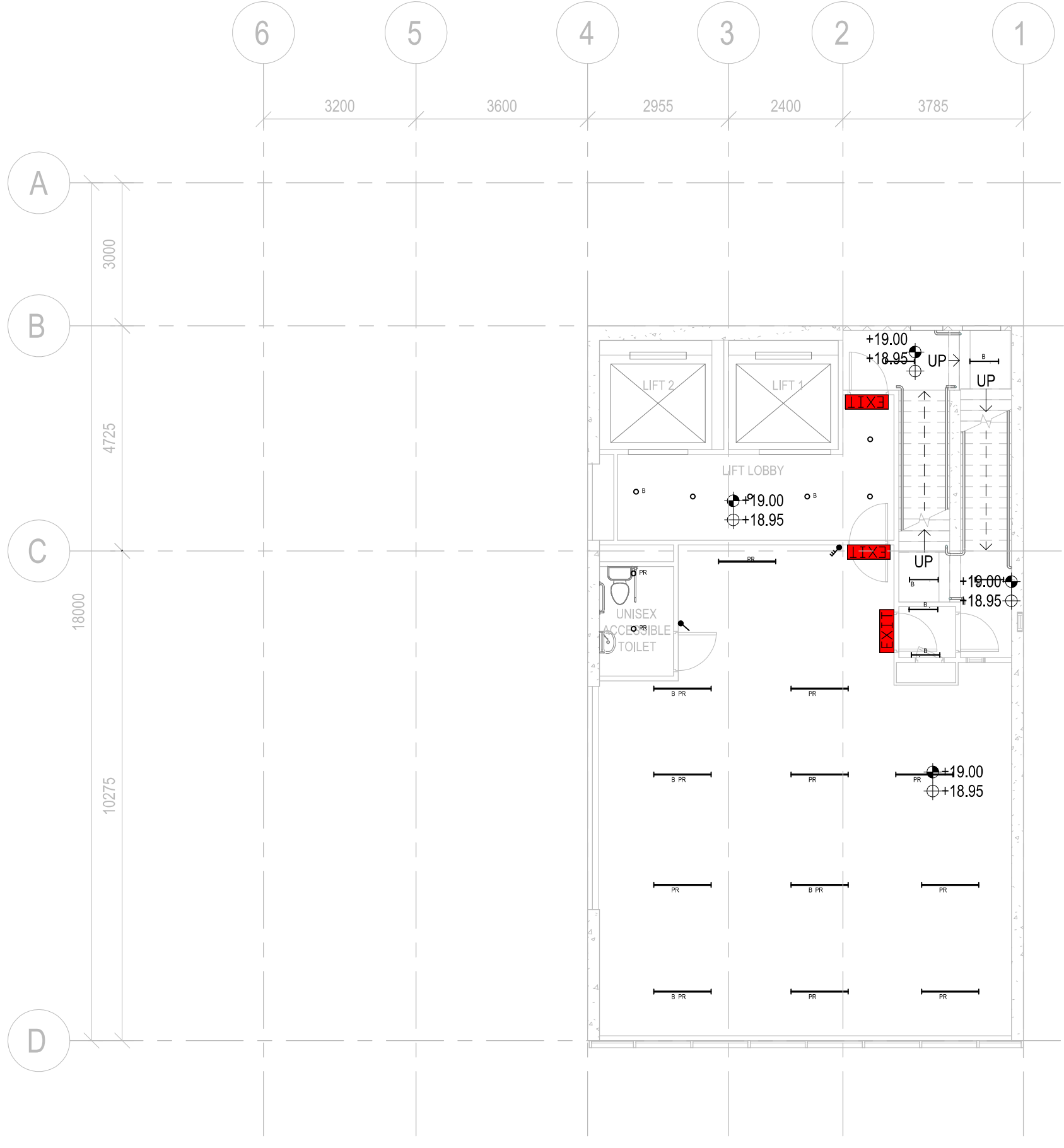
4 TRF PLAN
1:100



2 RF PLAN
1:100



3 URF PLAN
1:100



1 L04-L15 PLAN
1:100

B.D.REFERENCE

F.S.D.REFERENCE

W.W.O.REFERENCE

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01ST SUBMISSION

08-03-2021

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DRAWING TITLE

LIGHTNING LAYOUT PLAN AT LEVEL L04-L15, RF, URF, TRF

PROJECT NUMBER

PXXXXX

PURPOSE OF ISSUE

PLANNING SUBMISSION

SCALE

1 : 100 A1

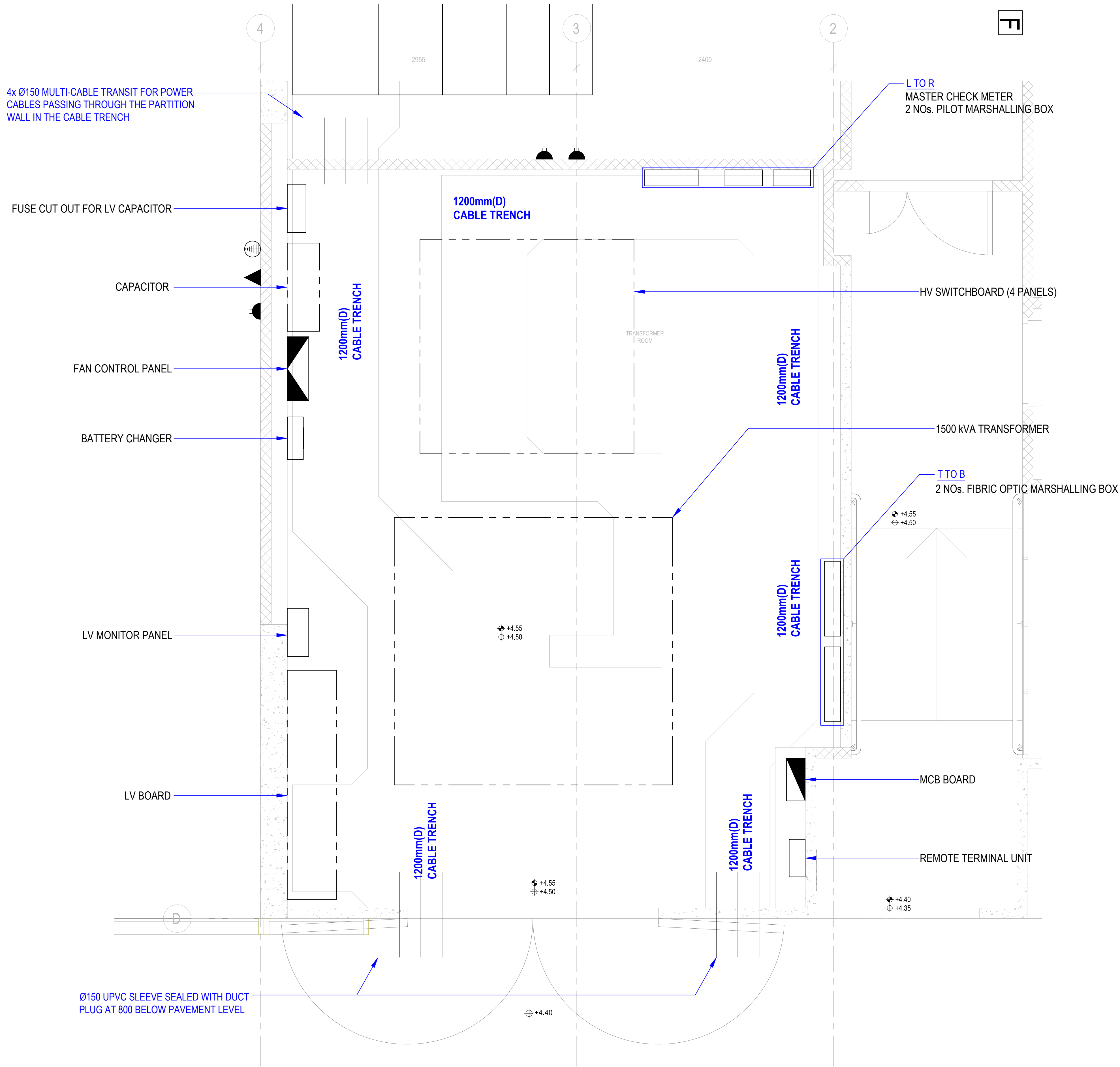
DRAWING NO.

REV

PXXXXX / EL104

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PLOT DRW: PRINTED BY:
MODELNAME: FILENAME:



1 TRANSFORMER ROOM LAYOUT
1:20

B.D.REFERENCE

F.S.D.REFERENCE

W.W.O.REFERENCE

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1ST SUBMISSION

08-03-2021

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PROJECT

CIC SAMPLE PROJECT

DRAWING TITLE

TRANSFORMER ROOM LAYOUT AT LEVEL GF

PROJECT NUMBER

PXXXXX

PURPOSE OF ISSUE

PLANNING SUBMISSION

SCALE

1 : 20 A1

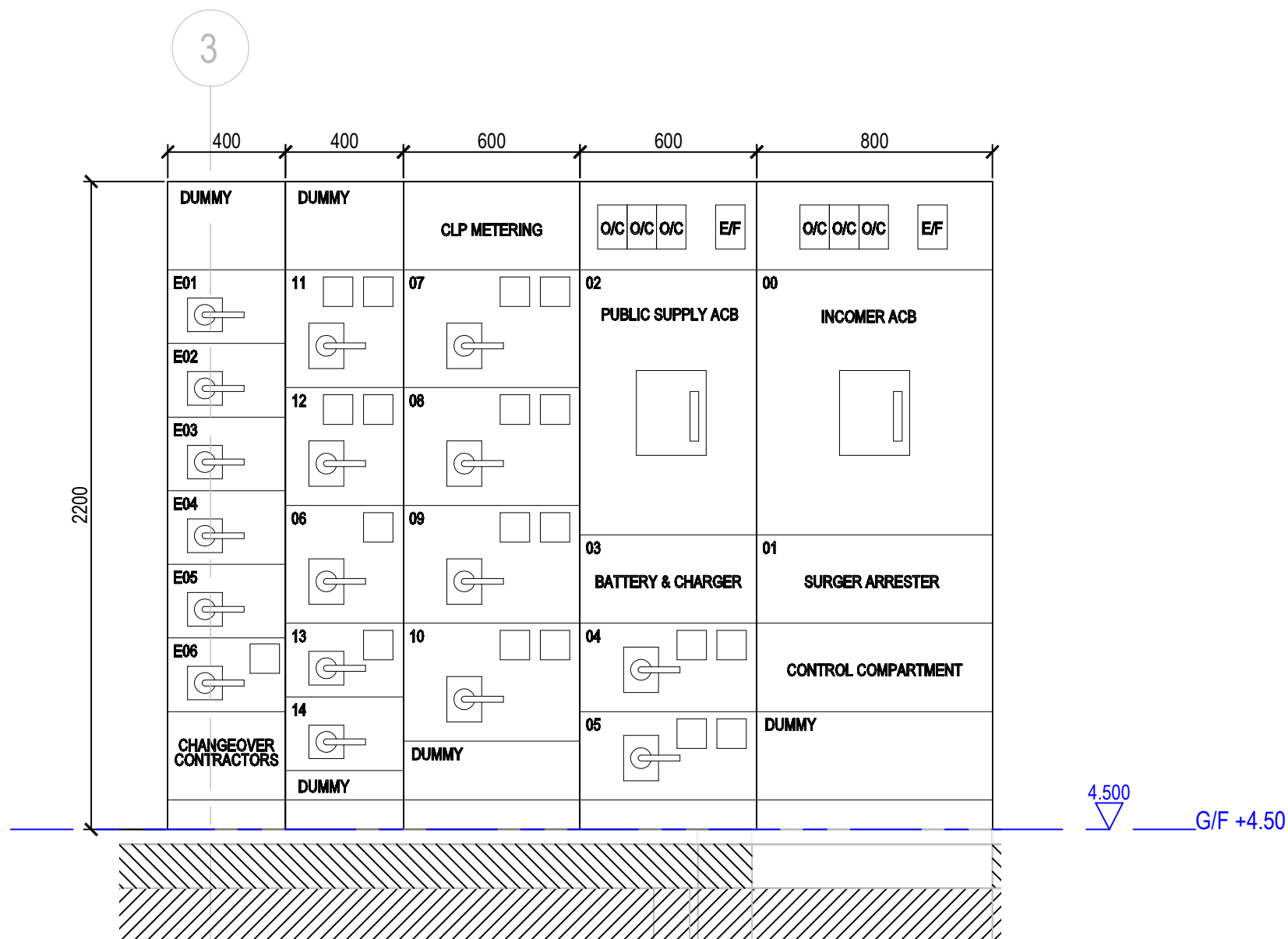
DRAWING NO.

PXXXXX / EL400

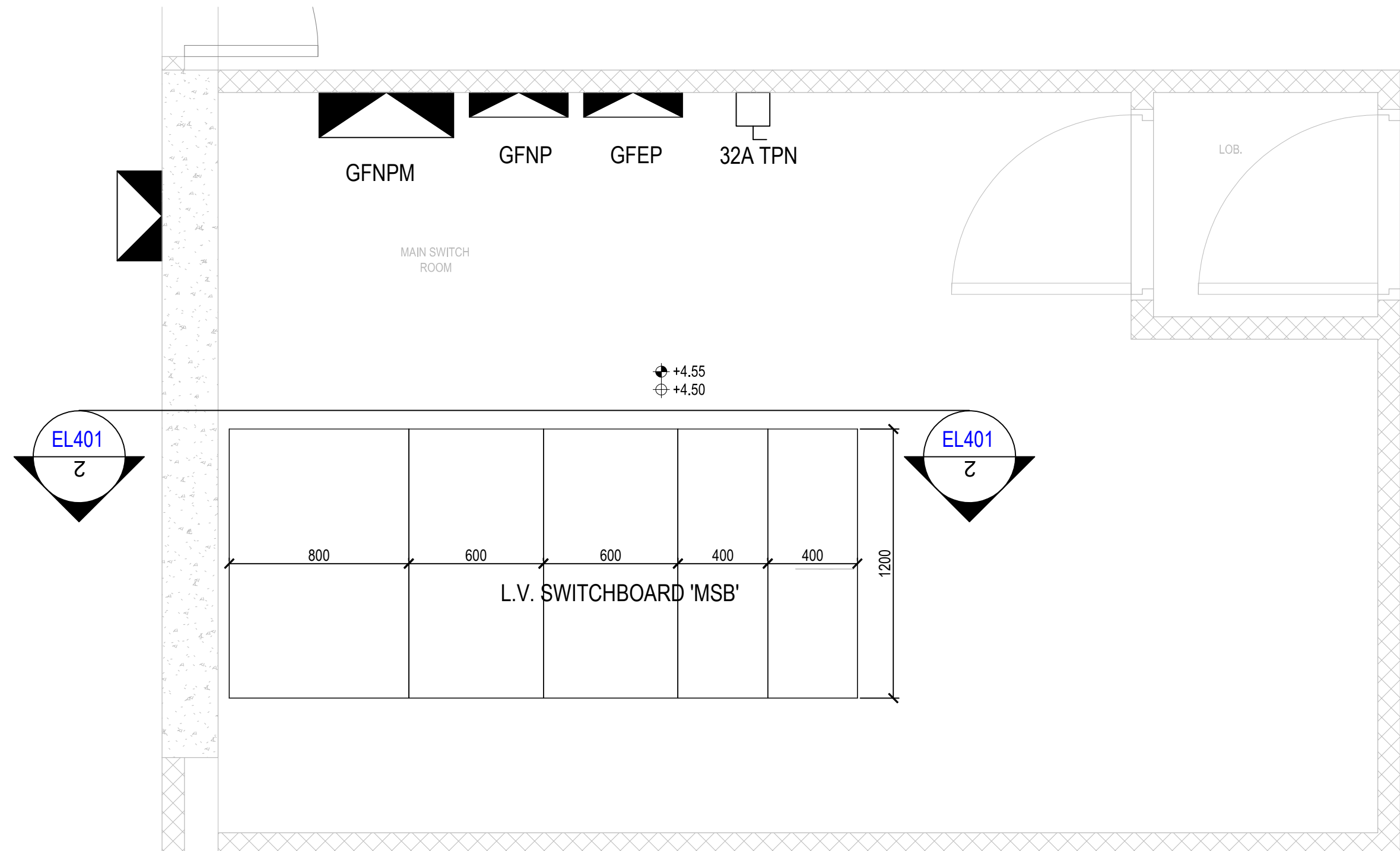
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PLOT DRW:
MODELNAME:
FILENAME:
PRINTED BY:



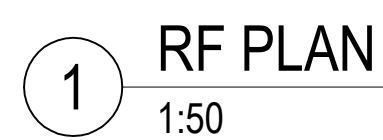
2 SECTION 2-2 _ L.V. SWITCH BOARD
1:20






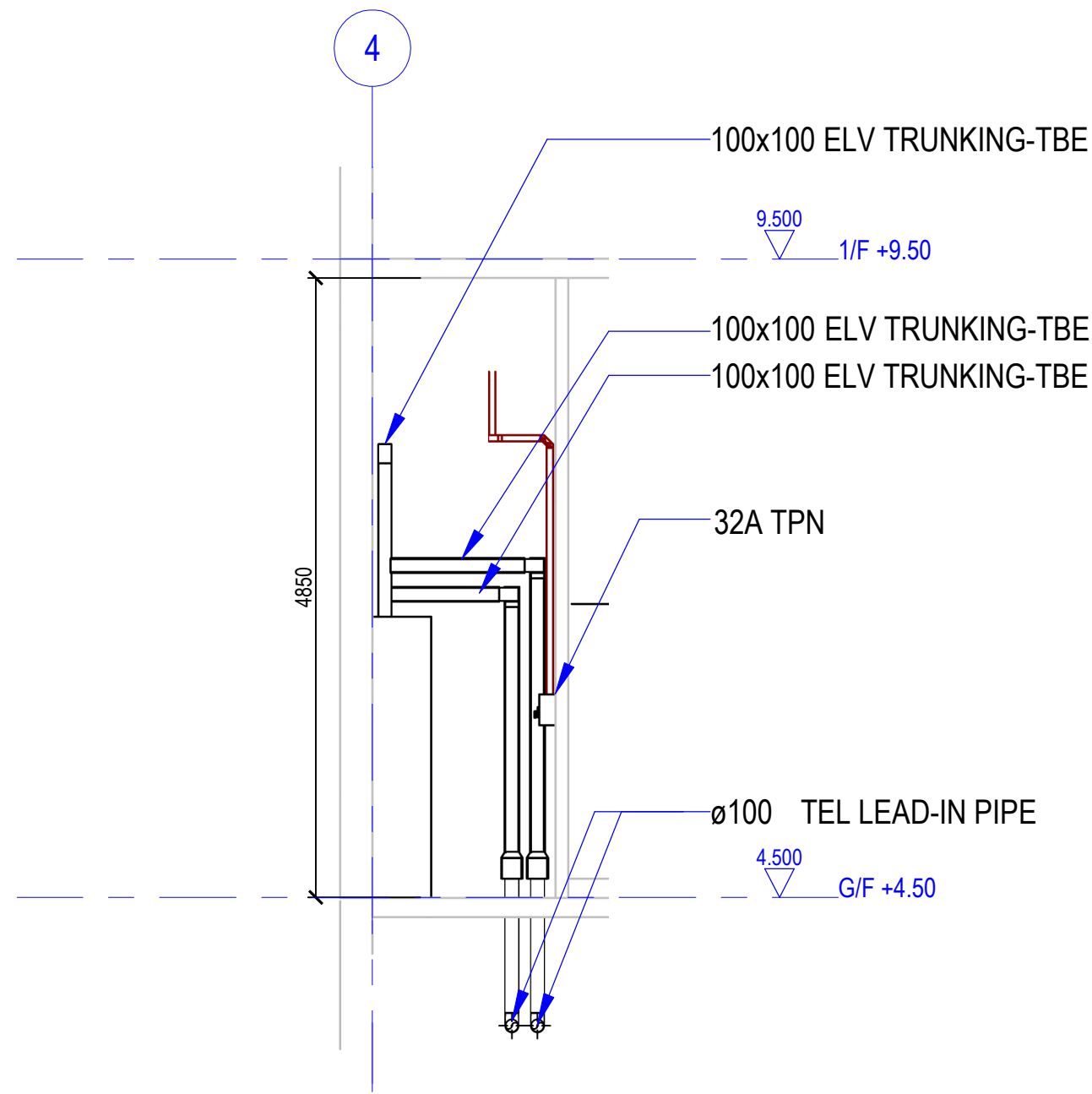
1 MAIN SWITCH ROOM PART PLAN
1:20

B.D. REFERENCE		
F.S.D. REFERENCE		
W.W.O. REFERENCE		
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DRAWN BIM MODELLER dd/mm/yyyy		
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CIC SAMPLE PROJECT		
DRAWING TITLE		
L.V. SWITCH ROOM LAYOUT AT LEVEL GF		
PROJECT NUMBER PXXXXX		
PURPOSE OF ISSUE PLANNING SUBMISSION		
SCALE 1 : 20 A1		
DRAWING NO. PXXXXX / EL401		
REV 0		

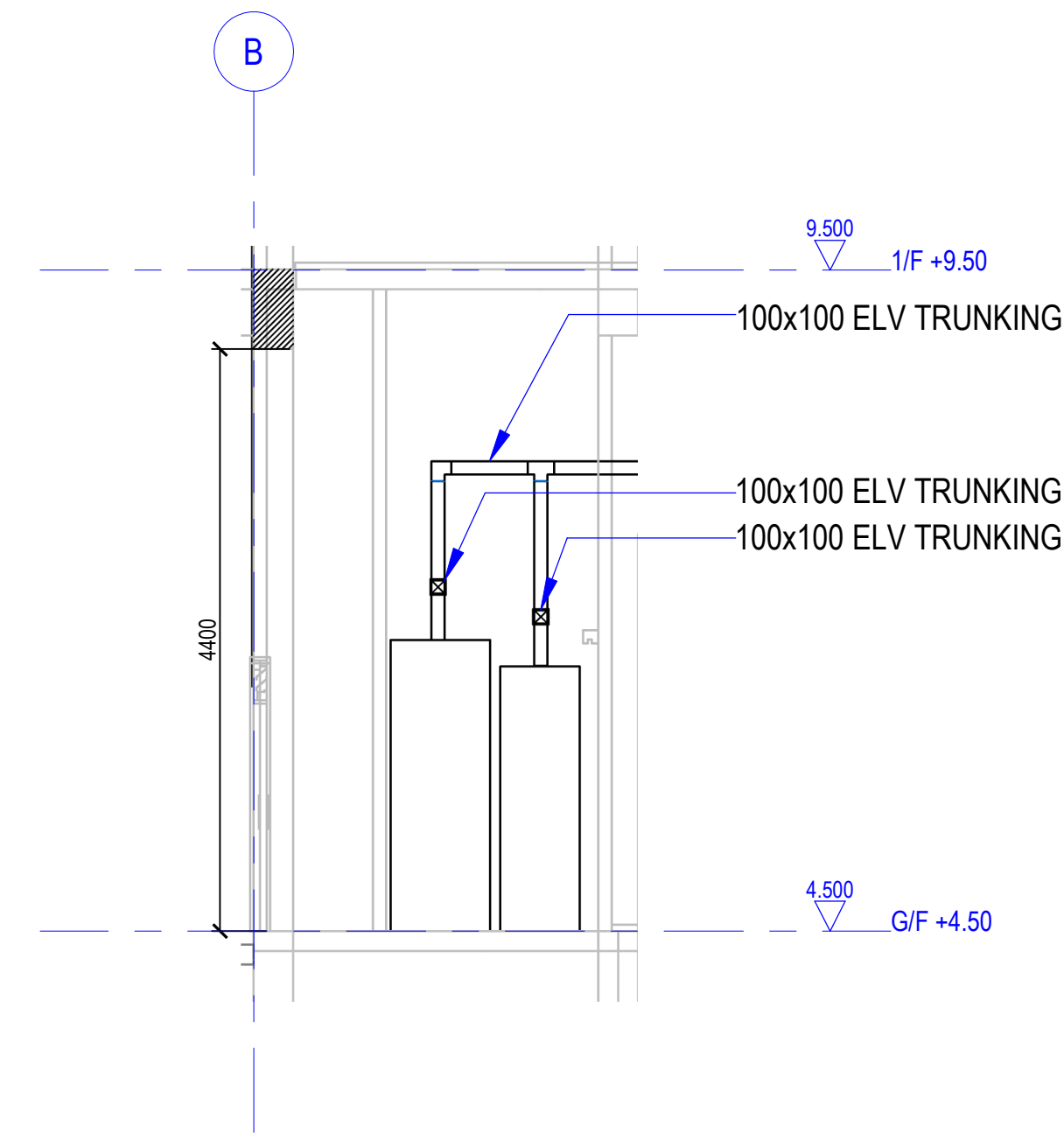




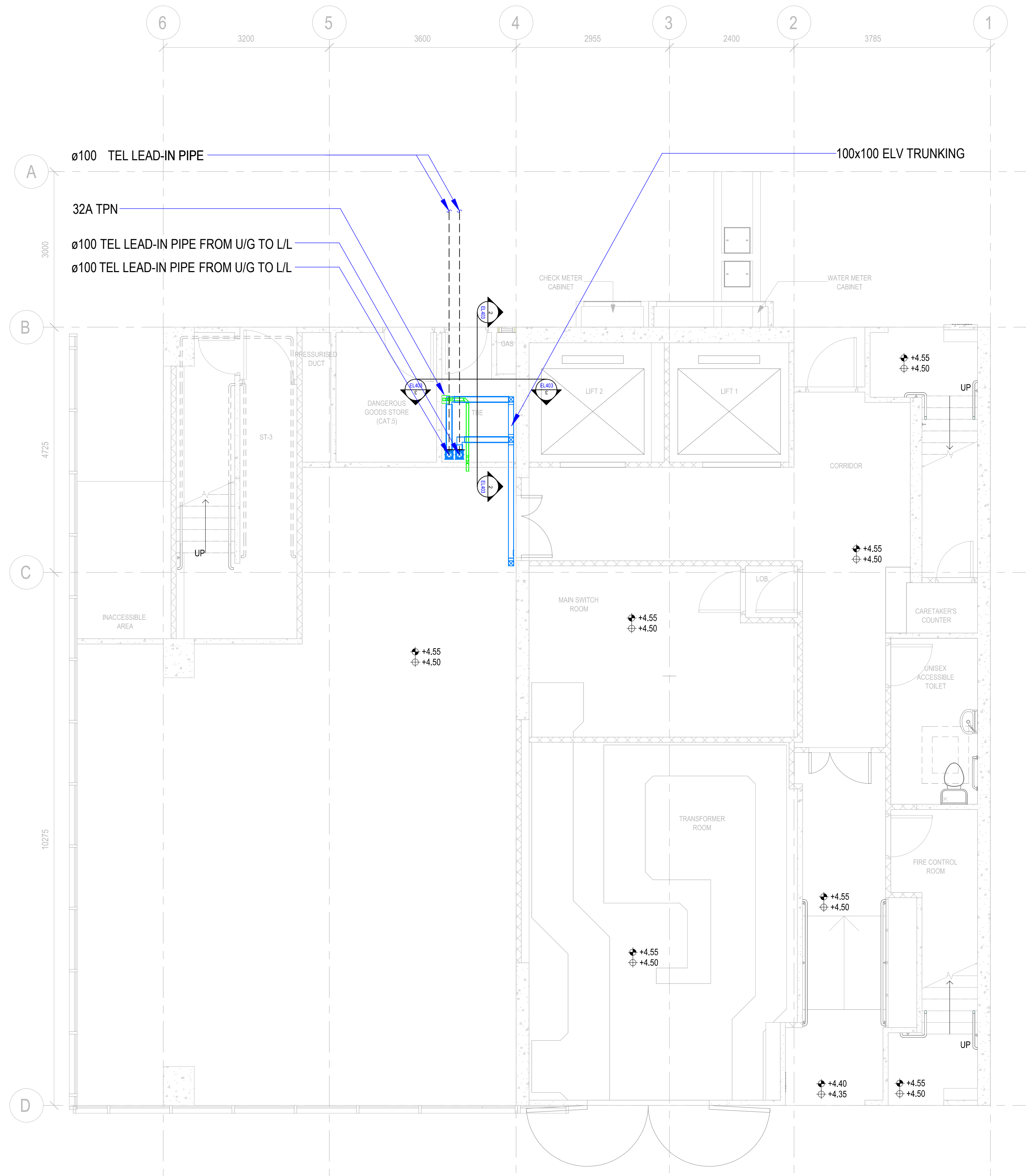
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PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
EMERGENCY GENERATOR ROOM LAYOUT AND SECTIONAL DETAILS		
		
PROJECT NUMBER PXXXXX		
PURPOSE OF ISSUE PLANNING SUBMISSION		
SCALE As indicated A1		
DRAWING NO.		
PXXXXX / EL402		REV 0






3 SECTION 3
1:50



2 SECTION 2
1:50



1 GROUND FLOOR PLAN
1:50

B.D.REFERENCE				
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W.W.O.REFERENCE				
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PROJECT				
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TBE ROOM LAYOUT AT LEVEL GF				
PROJECT NUMBER	PXXXXX			
PURPOSE OF ISSUE	PLANNING SUBMISSION			
SCALE	1 : 50 A1			
DRAWING NO.	PXXXXX / EL403			
REV	0			

1. ALL DIMENSION OF OPENINGS THROUGH STRUCTURE FOR HALL BUTTONS, HALL INDICATOR ETC... SHALL BE PROVIDED BY LIFT CONTR
2. IT IS THE RESPONSIBILITY OF THE LIFT CONTR TO TAKE MEASURES TO ENSURE THAT THE POWER FACTOR OF THE INSTALLATION SHALL NOT BE LESS THAN 0.85 LAGGING AT ALL CONDITIONS OF OPERATION
3. IN THE EVENT OF NORMAL TNB POWER SUPPLY FAILURE, SUPPLY WILL BE AVAILABLE FROM STANDBY GENERATOR SET AND LIFT CONTROL SEQUENCE SHALL BE AS SCHEDULED UNDER :-

- i) ON THE AVAILABILITY OF EMERGENCY GENSET SUPPLY REGARDLESS OF LOCATION OF THE LIFT, IT SHALL BE BROUGHT DOWN FIRST TO THE LOWEST DISCHARGE FLOOR AND SHALL BE AVAILABLE FOR USE BY THE FIREMAN SEQUENTIALLY FOR 50% OF LIFTS IN EACH CORE IN SIMULTANEOUSLY
- ii) IN THE EVENT OF FIRE & TNB FAILURE, ALL THE LIFTS SHALL BE BROUGHT DOWN TO THE LOWEST DISCHARGE FLOOR AND ONLY FIRE LIFT IS ALLOWED FOR OPERATION

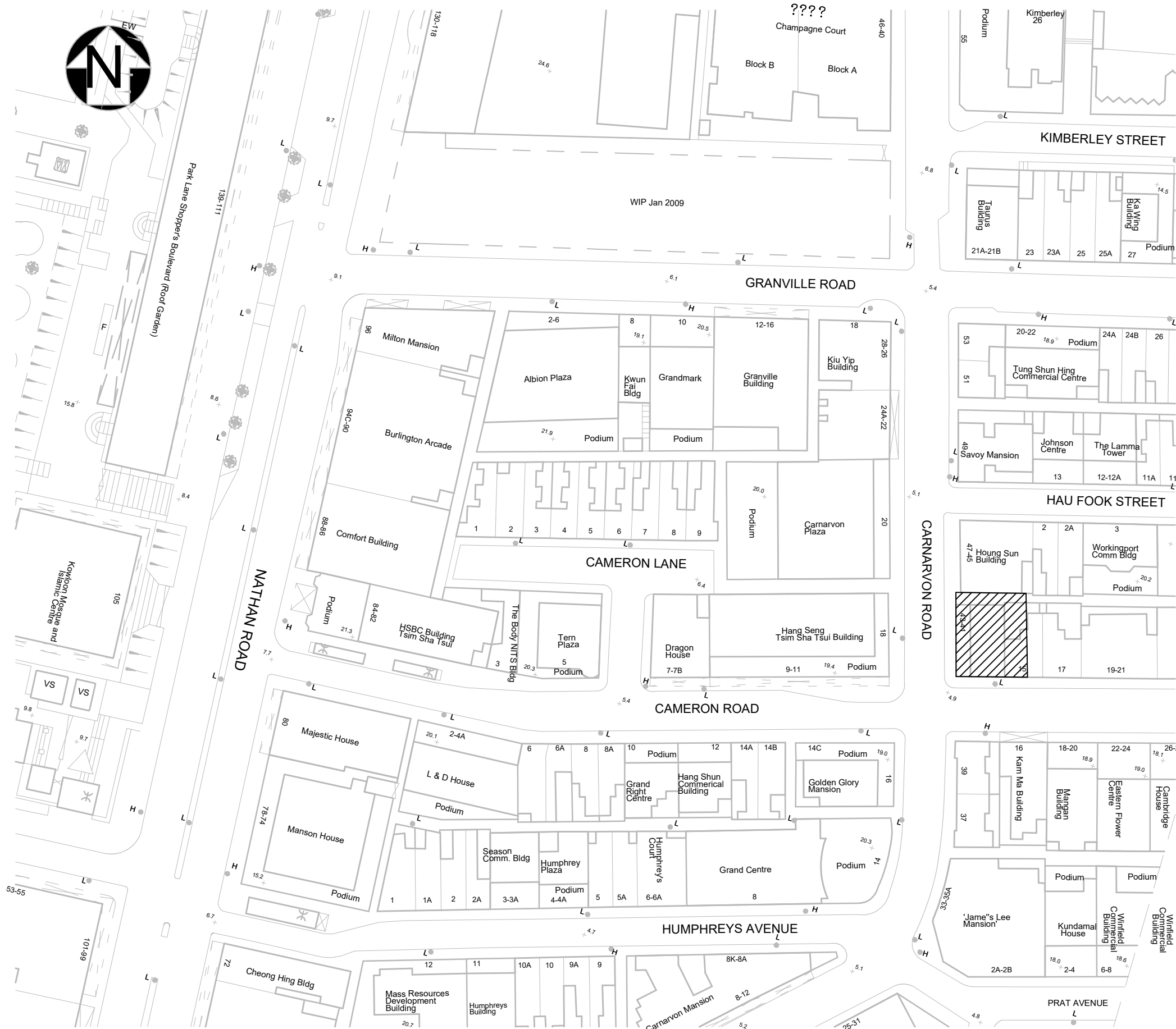
4. LIFT PIT TO BE WATER PROOFED AS REQUIRED BY LIFT REGULATIONS
5. A MILD STEEL CAT LADDER SHALL BE PROVIDED IN EACH OF THE
LIFT PIT FOR MAINTENANCE PURPOSES FOR THE LIFT MOTOR.
6. THE ENTRANCE DOOR OF LIFT MOTOR ROOM SHALL BE
EXHIBITED A NOTICE AS FOLLOWS :-

" DANGEROUS
MACHINERY ROOM
ONLY AUTHORIZED PERSONNEL ALLOWED "

7. 2x36W FLUORESCENT SURFACE MOUNTED C/W WEATHERPROOF POLYCARBONATE COVER (LTG) AND 13A SPN 240V FLUSH METALCALD S/S (S/P) WITH CABLING IN CONDUIT/TRUNKING FROM LIFT MOTOR ROOM DB (BY LIFT CONTRACTOR)
8. ALL LIFT SHALL BE AC VARIABLE VOLTAGE VARIABLE FREQUENCY (ACVVF) GEARED TYPE
9. ALL LIFT DOOR OPENING AND CLOSING SPEED SHALL NOT BE LESS THAN 2.2m/s AND SHALL COMPLY TO SAFETY REQUIREMENTS

A blue line graph on a white background. The graph consists of two segments: a horizontal segment at the top left and a downward-sloping segment extending from the end of the horizontal segment towards the bottom right. The line is solid blue.



DRAWING LIST		
DRAWING NUMBER	DRAWING TITLE	REVISION
EMS001	GENERAL NOTES, LEGENDS, ABBREVIATION AND DRAWING LIST	0
EMS101	L&S LAYOUT PLAN AT LEVEL GF, L01, L02, L03	0
EMS102	L&S LAYOUT PLAN AT L04-L15, RF, URF, TRF	0
EMS400	LIFT SHAFT PLAN DETAIL & SECTION	0

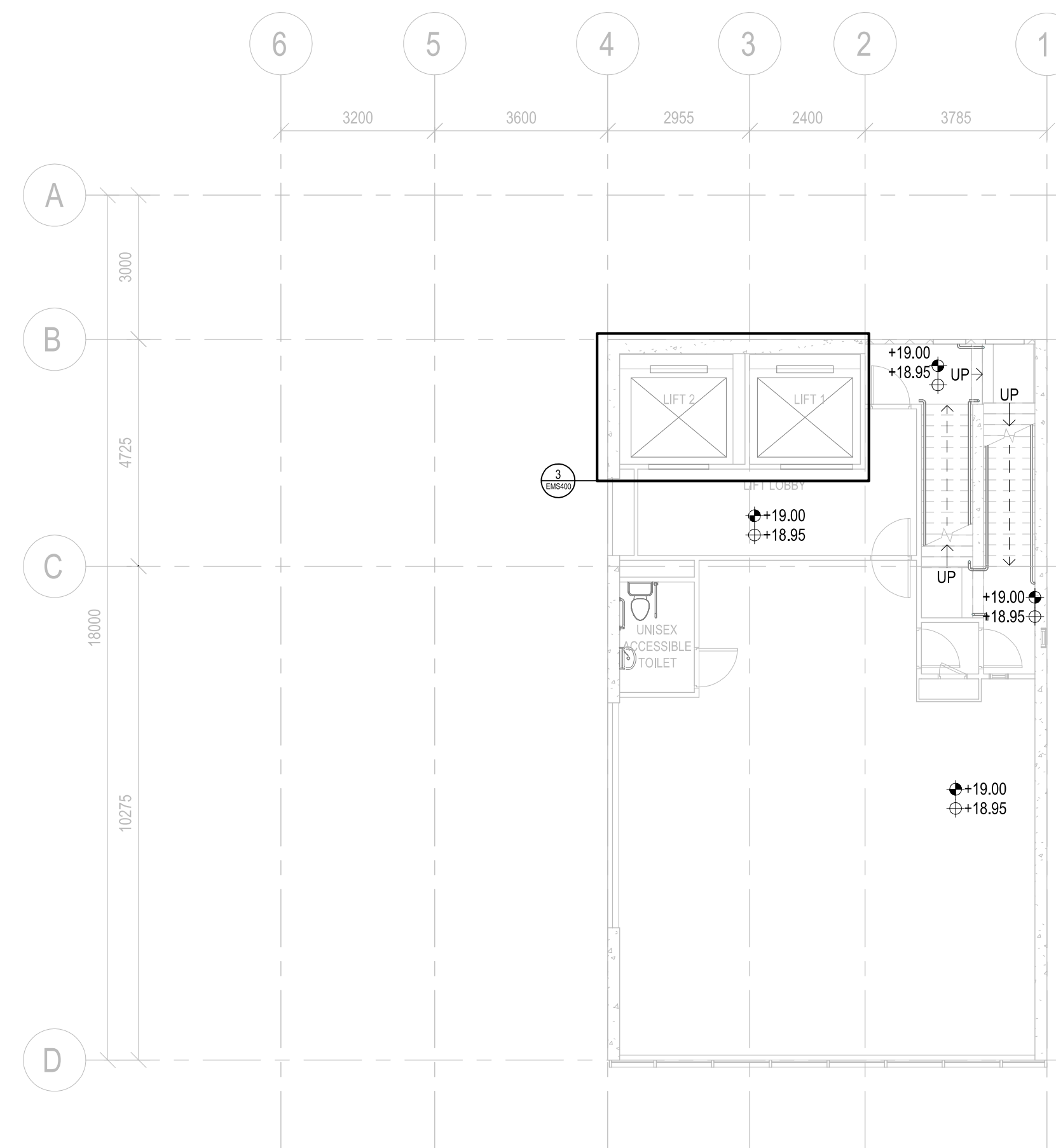





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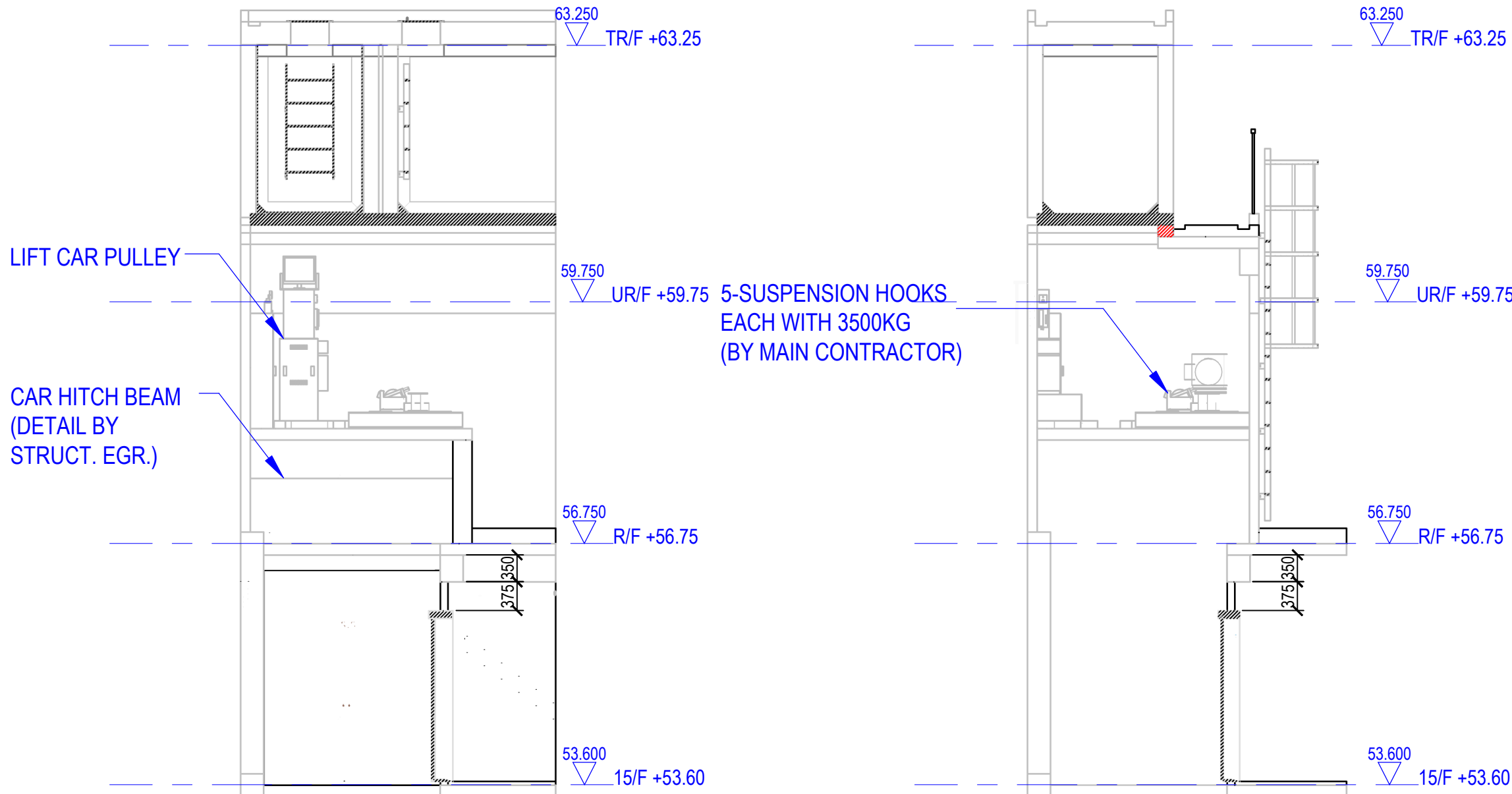


1:500

B REFERENCE		
F.S.D. REFERENCE		
W.W.O. REFERENCE		
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CIC SAMPLE PROJECT		
DRAWING TITLE		
GENERAL NOTES, LEGENDS, ABBREVIATION AND DRAWING LIST		
<div> <div>DRAWING TITLE</div> <div> <div>PROJECT NUMBER</div> <div>PXXXXX</div> </div> <div> <div>PURPOSE OF ISSUE</div> <div>PLANNING SUBMISSION</div> </div> <div> <div>SCALE</div> <div>As indicated A1</div> </div> </div>		
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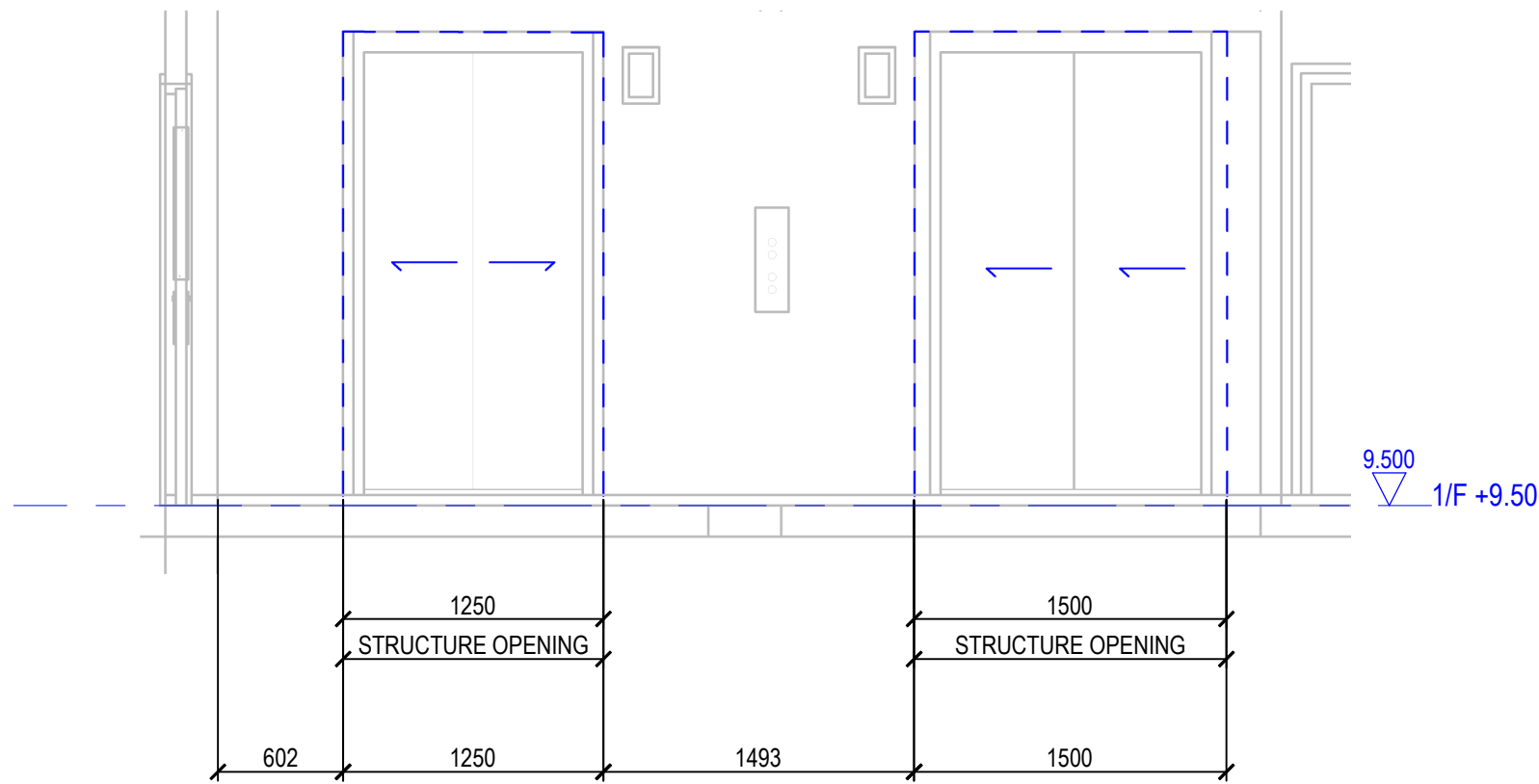


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CONSULTANT LOGO	 <p>CONSTRUCTION INDUSTRY COUNCIL 建造業議會</p>	
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE.		
APPOINTING PARTY / CLIENT REVIEW & ACCEPT		
	T - ACCEPTED (TIME)	
	A - REVIEWED & ACCEPTED	
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	C - DO NOT USE	
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0	1ST SUBMISSION	08-03-2021
REV	DESCRIPTION	DATE
	NAME AND DESIGNATION	DATE
APPROVED	APPROVER	dd/mm/yyyy
CHECKED	CHECKER	dd/mm/yyyy
DESIGNED	DESIGNER	dd/mm/yyyy
DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
L&S LAYOUT PLAN AT L04-L15, RF, URF, TRF		
		
PROJECT NUMBER		
PXXXXX		
PURPOSE OF ISSUE		
PLANNING SUBMISSION		
SCALE		
1 : 100 A1		
DRAWING NO.		REV
PXXXXX / EMS102		0

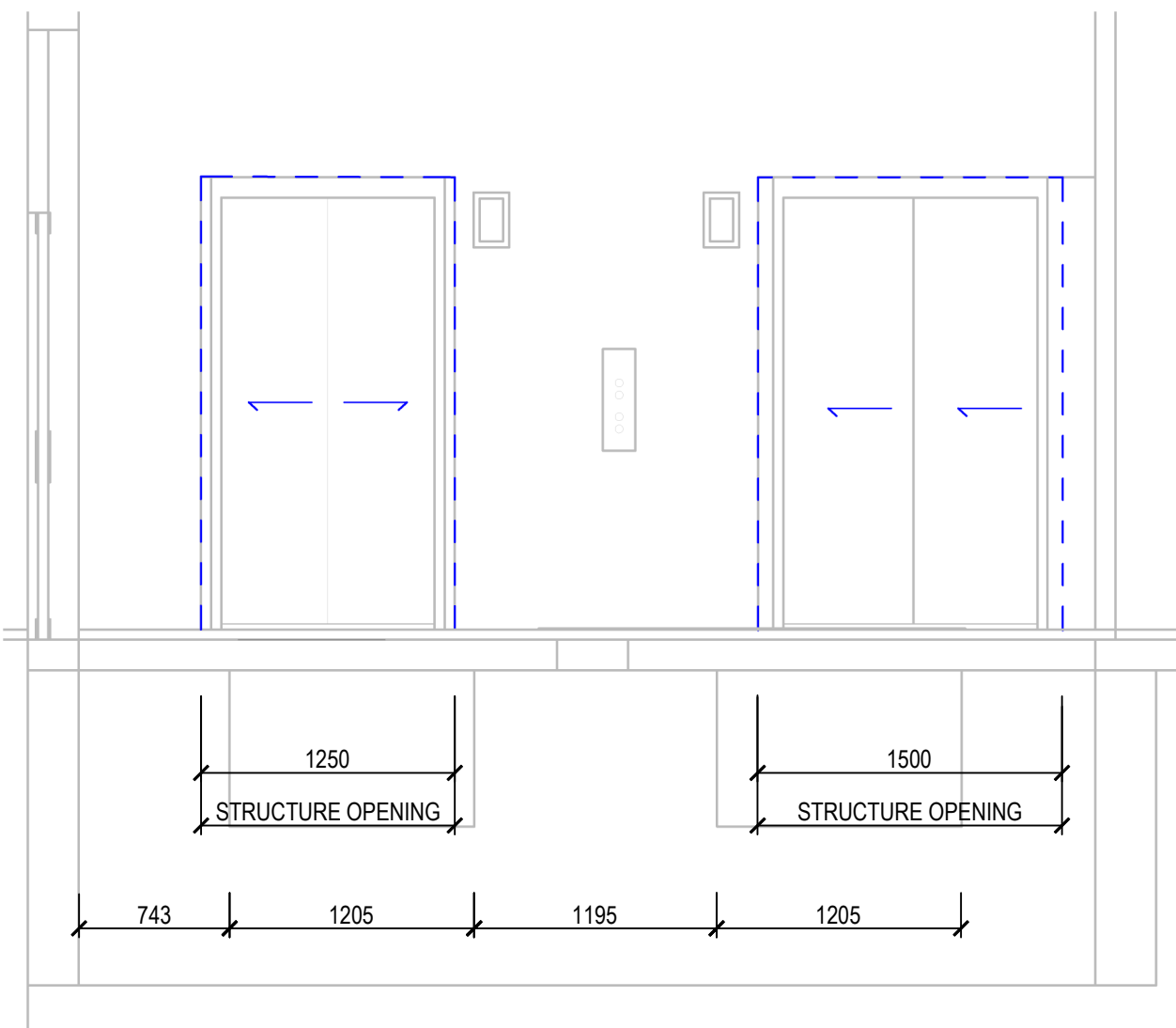


9 SECTION LMR (LIFT_NO.1)
1:65

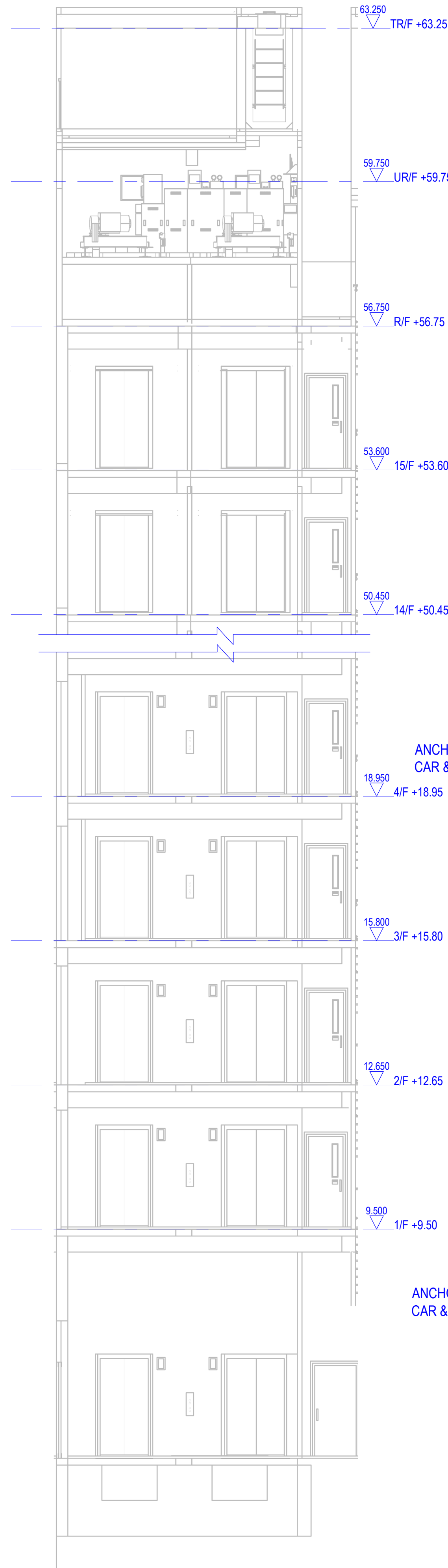
8 SECTION LMR (LIFT_NO.2)
1:65



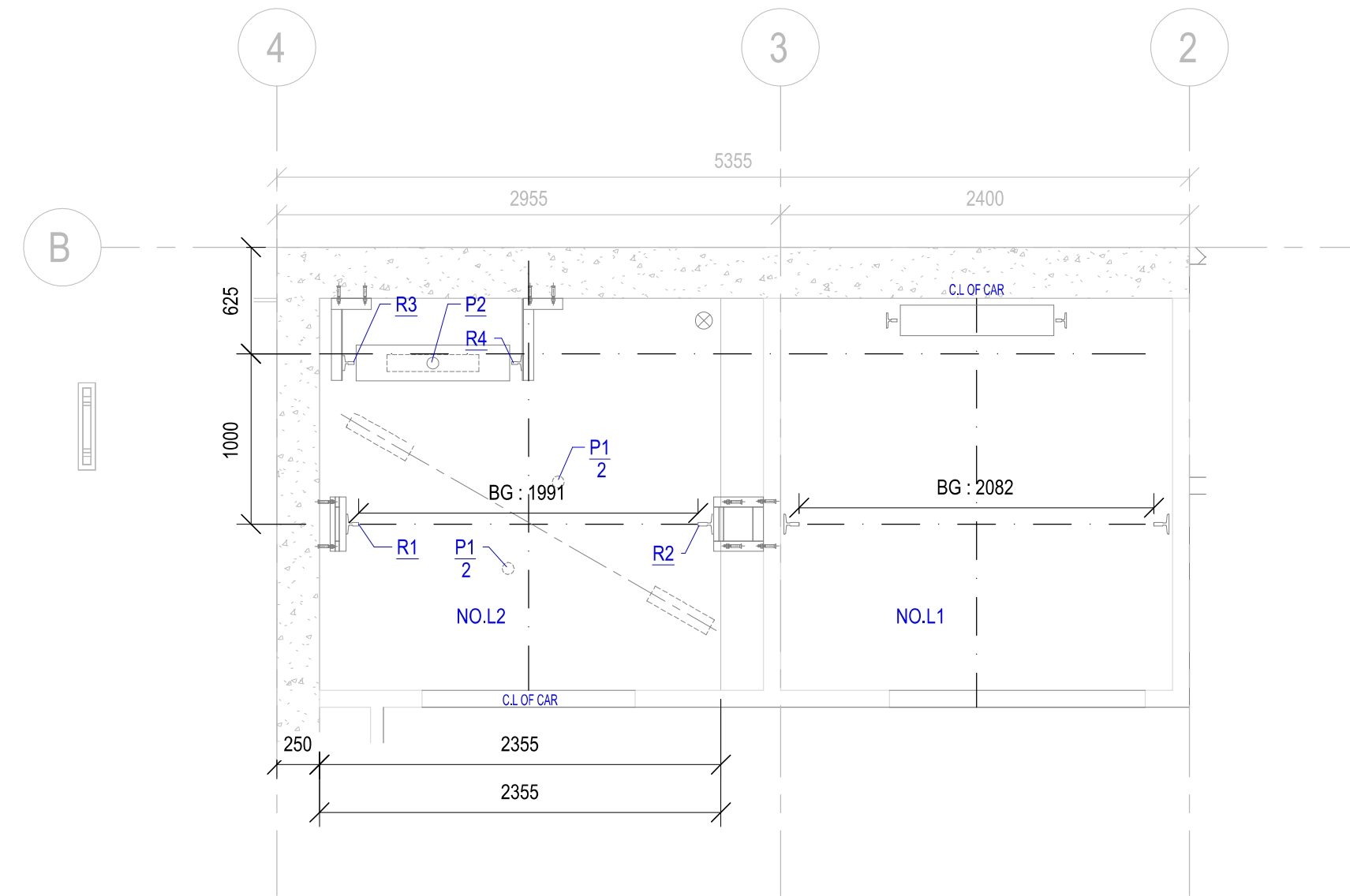
7 SECTION A - A (1F-15F)
1:35



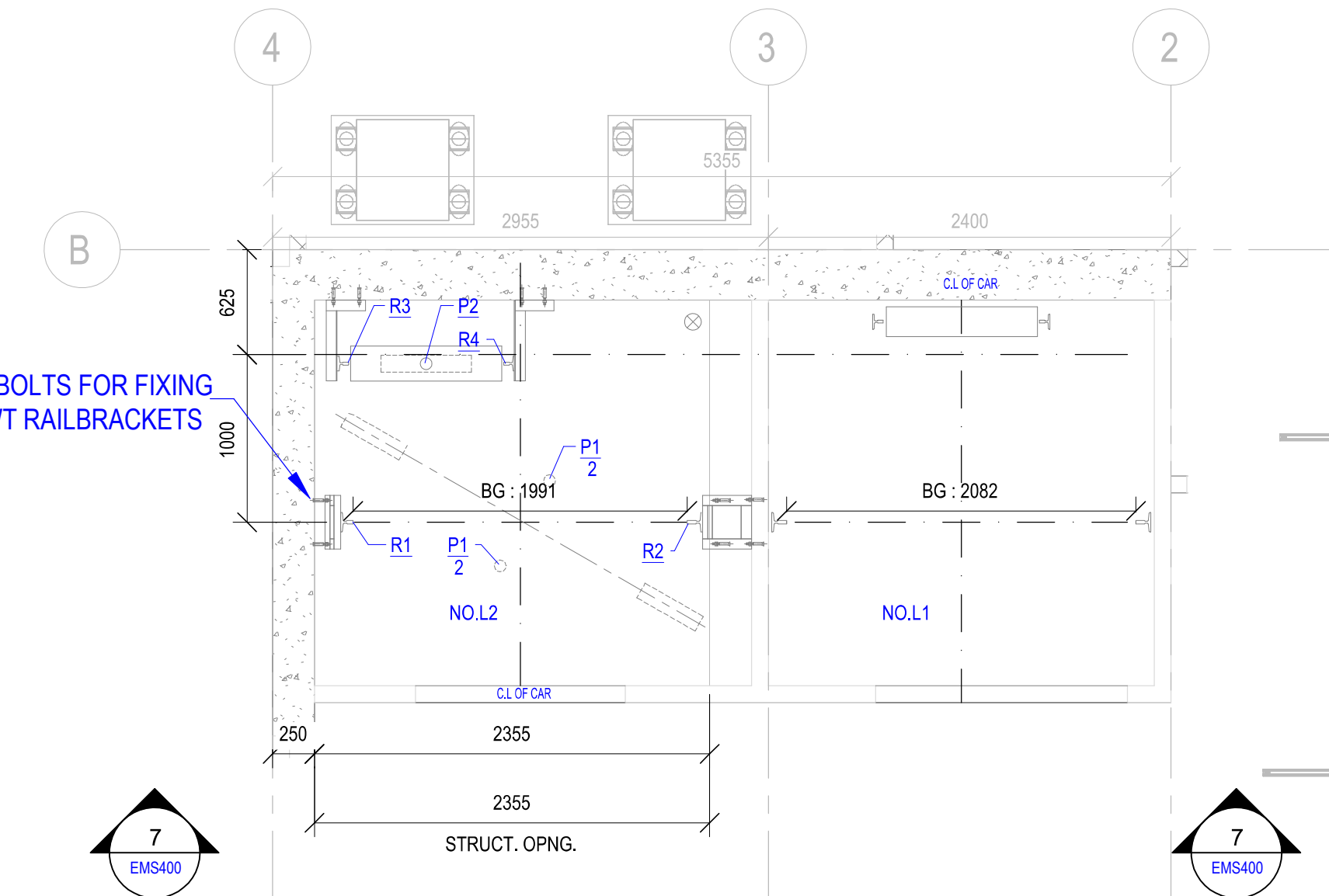
6 SECTION A - A (GF)
1:35



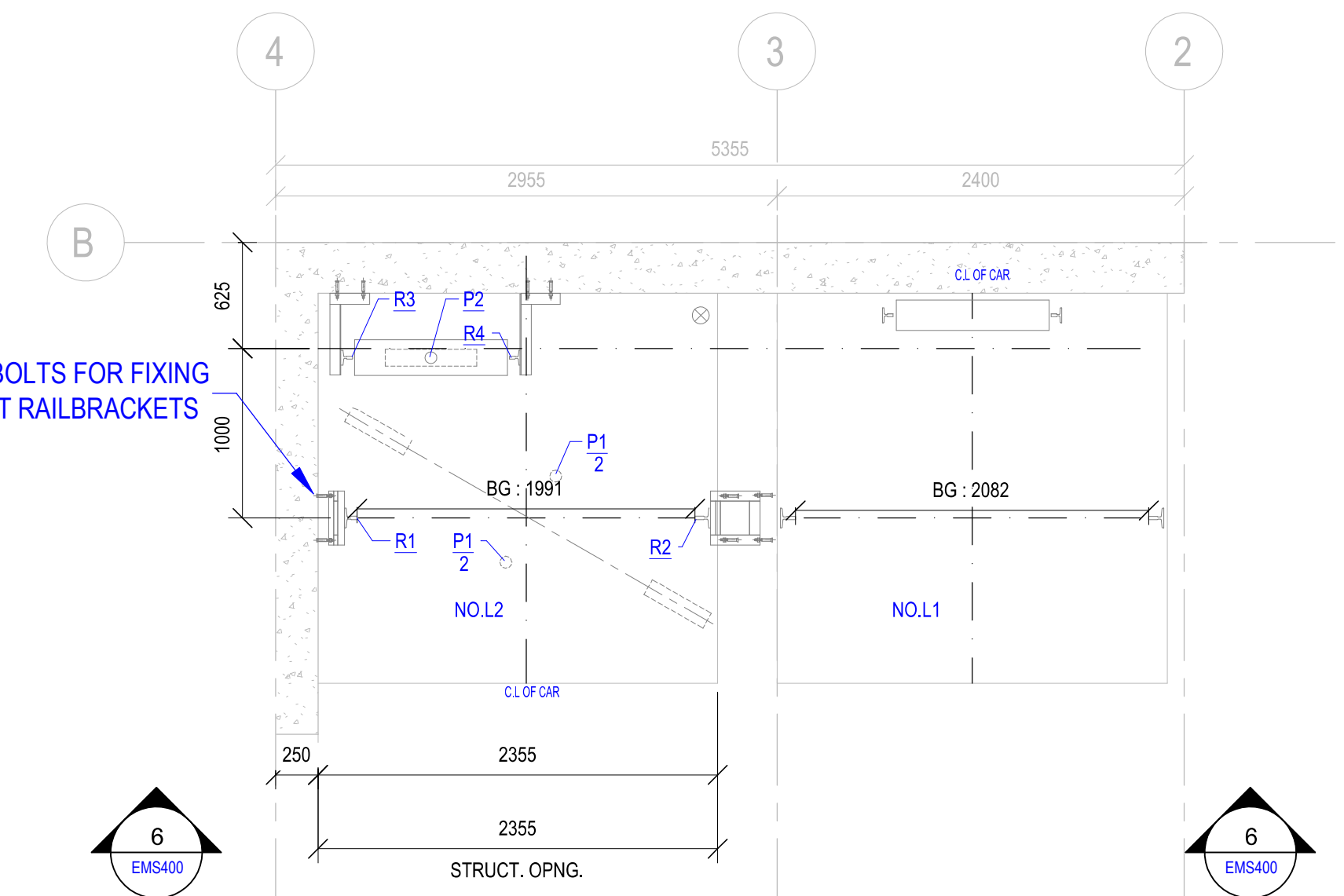
4 SECTION (OVERALL)
1:65



3 LIFT SHAFT PLAN (4F - 15F)
1:35



2 LIFT SHAFT PLAN (1F - 3F)
1:35



1 LIFT SHAFT PLAN (GF ONLY)
1:35

B.D. REFERENCE		
F.S.D. REFERENCE		
W.W.O. REFERENCE		
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REV DESCRIPTION DATE		
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APPROVED APPROVER dd/mm/yyyy		
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DESIGNED DESIGNER dd/mm/yyyy		
DRAWN BIM MODELLER dd/mm/yyyy		
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
LIFT SHAFT PLAN DETAIL & SECTION		
PROJECT NUMBER PXXXXX		
PURPOSE OF ISSUE PLANNING SUBMISSION		
SCALE As indicated A1		
DRAWING NO. PXXXXX / EMS400		
REV 0		

	FIXED FIRE PUMP & FS UPFEED PUMP & SPRINKLER UPFEED PUMP & SPRINKLER PUMP & SPRINKLER JOCKEY PUMP
	GATE VALVE
	CHECK VALVE
	FIRE HYDRANT
	PRESSURE REDUCING FIRE HYDRANT
	MANUAL FIRE ALARM CALL POINT (BREAK GLASS TYPE)
	FIRE ALARM BELL
	WEATHERPROOF MASTER FIRE ALARM BELL
	FS INLET & SPRINKLER INLET
	AUTOMATIC AIR VENT
	BALL FLOAT VALVE
	SPRINKLER HEAD
	SPRINKLER HEAD UNDER FLOOR/ CEILING SLAB
	SPRINKLER HEAD UNDER FALSE CEILING LEVEL
	SPRINKLER HEAD AT FALSE CEILING LEVEL AND INSIDE FALSE CEILING (DOUBLE LAYER)
	SPRINKLER HEAD (FAST RESPONSE TYPE)
	HEAT DETECTOR
	MONITOR MODULE
	RELAY MODULE
	VORTEX
	ORIFICE PLATE
	VISUAL FIRE ALARM
	LEVEL SWITCH
	FIRE HYDRANT / PRESSURE REDUCING FIRE HYDRANT
	FS CONTROL PANEL
	HOSE REEL
	FIXED FIRE TRANSFER PUMP CONTROL PANEL
	SPRINKLER TRANSFER PUMP CONTROL PANEL
	FIXED FIRE PUMP CONTROL PANEL
	SPRINKLER PUMP CONTROL PANEL
	PRESSURE SWITCH FOR CHANGE OVER
	LOW PRESSURE (FALLEN BY 0.5 BAR) ALARM
	FLOW SWITCH
	FLUSHING VALVE WITH BRASS CAP
	MANUAL OVERRIDE BUTTON

	FIXED FIRE PUMP & FS UPFEED PUMP & SPRINKLER UPFEED PUMP & SPRINKLER PUMP & SPRINKLER JOCKEY PUMP
	GATE VALVE
	CHECK VALVE
	FIRE HYDRANT
	PRESSURE REDUCING FIRE HYDRANT
	MANUAL FIRE ALARM CALL POINT (BREAK GLASS TYPE)
	FIRE ALARM BELL
	WEATHERPROOF MASTER FIRE ALARM BELL
	FS INLET & SPRINKLER INLET
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	FLOW SWITCH
	FLUSHING VALVE WITH BRASS CAP
	MANUAL OVERRIDE BUTTON

AAV	AUTOMATIC AIR VENT	HR	HOSE REEL
C/W	COMPLETE WITH	FH	FIRE HYDRANT
F/A	FROM ABOVE	B.L.	BOUNDARY LINE
F/B	FROM BELOW	SPR	SPRINKLER
T/B	TO BELOW	FFP	FIXED FIRE PUMP
T TO B	TOP TO BOTTOM	STP	SPRINKLER TRANSFER PUMP
FS	FIRE SERVICES	FSP	SPRINKLER PUMP
H/L	HIGH LEVEL	FTP	FS TRANSFER PUMP
L/L	LOW LEVEL	FSCC	FIRE SERVICE COMMUNICATION CENTRE
L TO R	LEFT TO RIGHT	GRP	GLASS REINFORCED PLASTIC
W/	WITH		
U/G	UNDERGROUND		
&	AND		

THE FIRE SERVICE INSTALLATIONS ARE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE CURRENT EDITION OF THE CODES OF PRACTICE FOR MINIMUM FIRE SERVICE INSTALLATIONS AND EQUIPMENT AND INSPECTION, TESTING AND MAINTENANCE OF INSTALLATIONS AND EQUIPMENT AND THE CURRENT ISSUE OF THE FSD CIRCULAR LETTERS. THE PARTICULARS OF THE FIRE SERVICE INSTALLATIONS TO BE PROVIDED FOR THE BUILDING ARE AS FOLLOWS:-

- FOR REFERENCE ONLY**

- 4) EXIT SIGN
a. SUFFICIENT EXIT OF SELF-CONTAINED BATTERY TYPE TO BE PROVIDED AT LOCATIONS AS INDICATED ON THE DRAWINGS

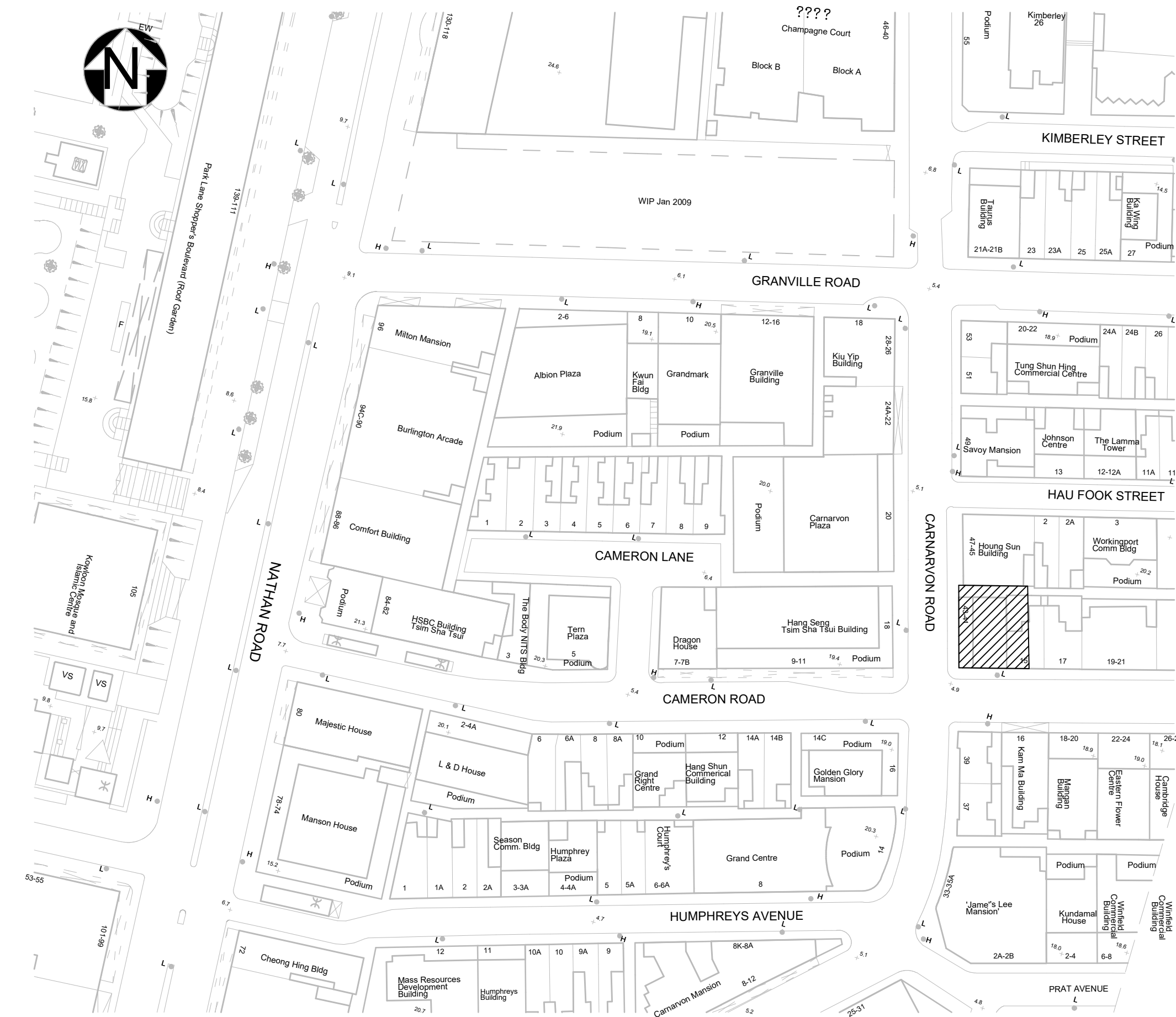
- 6) **FIRE DETECTION SYSTEM**
- a. AUTOMATIC FIRE ALARM AND DETECTION SYSTEM IN ACCORDANCE WITH "RULES OF THE LOSS PREVENTION COUNCIL FOR AUTOMATIC FIRE DETECTION AND ALARM SYSTEMS FOR THE PROTECTION OF PROPERTY" (LPC RULES) AND BS 5839-1:2002-42:2008 WITH MODIFICATIONS AS REQUIRED IN FSD CIRCULAR LETTER NO. 1/2002 & 2/2012 TO BE PROVIDED FOR AREAS NOT PROTECTED BY AUTOMATIC SPRINKLER SYSTEM. HEAT DETECTION SYSTEM TO BE PROVIDED FOR CONSUMER ELECTRICAL EQUIPMENT/MECHANICAL PLANT/TB ROOM. AUTOMATIC FIRE ALARM PANEL TO BE PROVIDED AT GIF FIRE CONTROL CENTRE AS INDICATED ON THE DRAWINGS. ALARM SIGNAL TO BE TRANSMITTED TO F.S. COMMUNICATION CENTRE VIA DIRECT TELEPHONE LINK.

- 8) PORTABLE HAND OPERATED APPROVED APPLIANCES
a) TO BE PROVIDED AT LOCATIONS AS INDICATED ON THE DRAWINGS

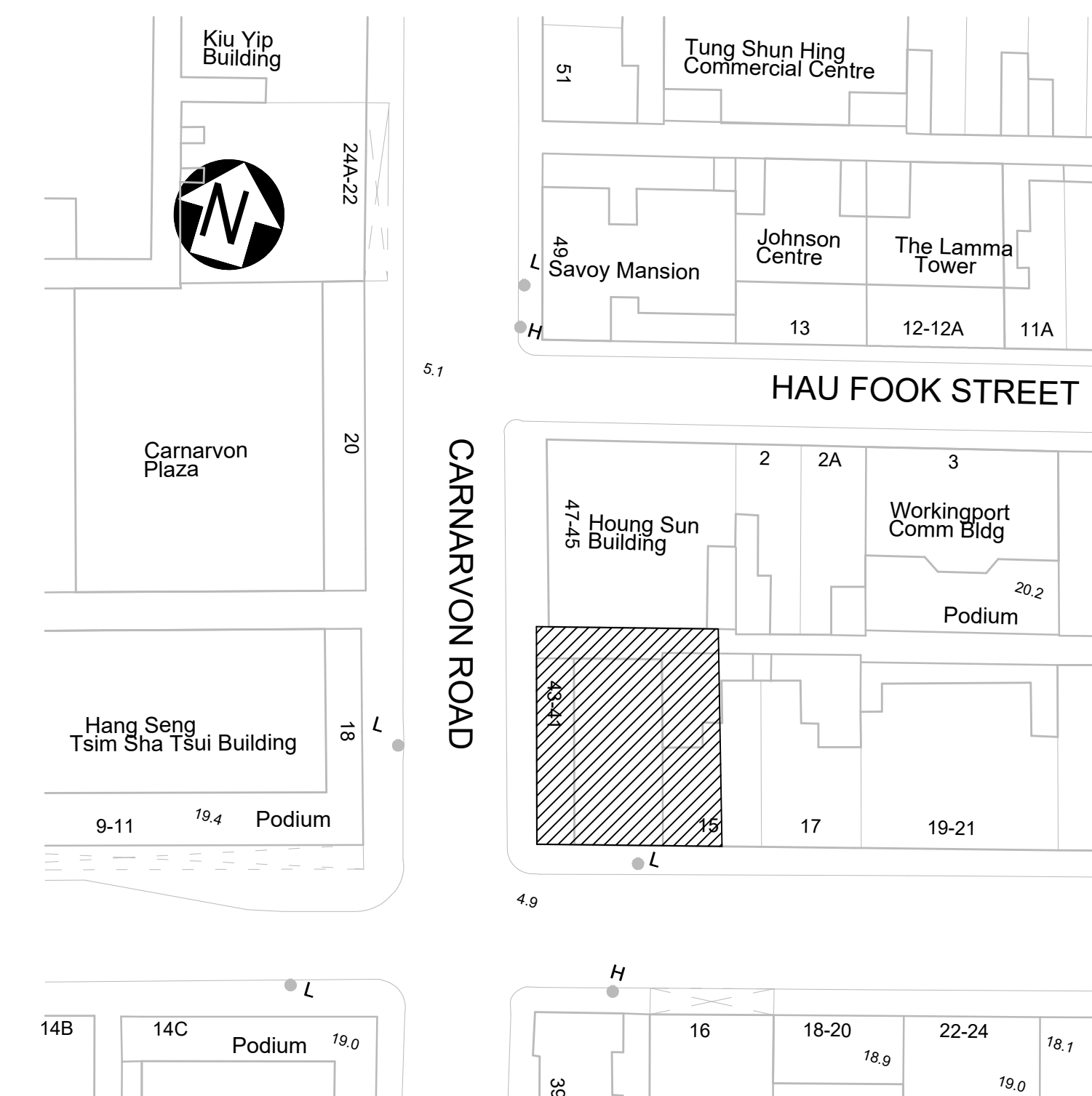
ZONE	NO. OF TOTAL SPR. HEAD
G/F +4.50	30
1/F +9.50	50
2/F +12.65	1
2/F +12.65	44
2/F +12.65	6
3/F +15.80	30
4/F +18.95	30
5/F +22.10	30
6/F +25.25	30
7/F +28.40	30
8/F +31.55	30
9/F +34.70	30
10/F +37.85	30
11/F +41.00	30
12/F +44.15	30
12/F +44.15	6
13/F +47.30	30
14/F +50.45	30
15/F +53.60	16
Total	513

NOMINAL PIPE SIZE	PIPE SPECIFICATION
<u>Ø150 & BELOW (ABOVE GROUND)</u>	GALVANIZED MILD STEEL PIPE OF AT LEAST MEDIUM GRADE TO BS EN 10255:2004 OR ISO 65:1981 FOR SCREWING TO BS EN 10226-1:2004 OF ISO 7-1:1994 PIPE THREADS. FITTINGS SHALL BE TO BS EN 10241:2000 OR BS EN 10242:1994




DRAWING NUMBER	DRAWING TITLE	REVISION
FS001	LEGENDS, ABBREVIATION AND GENERAL NOTES	0
FS100	SCHEMATIC	0
FS101	F.S. LAYOUT PLAN AT LEVEL GF, L01, L02, L03	0
FS102	F.S. LAYOUT PLAN AT LEVEL L04-L15, RF, URF, TRF	0
FS400	F.S. ROOF SPRINKLER PUMP ROOM AT LEVEL RF	0
FS401	F.S. DANGEROUS GOOD STORE LAYOUT AT LEVEL GF	0
FS500	F.S. STATIC SMOKE EXTRACTION PLAN	0
FS501	F.S. STATIC SMOKE EXTRACTION SECTION	0

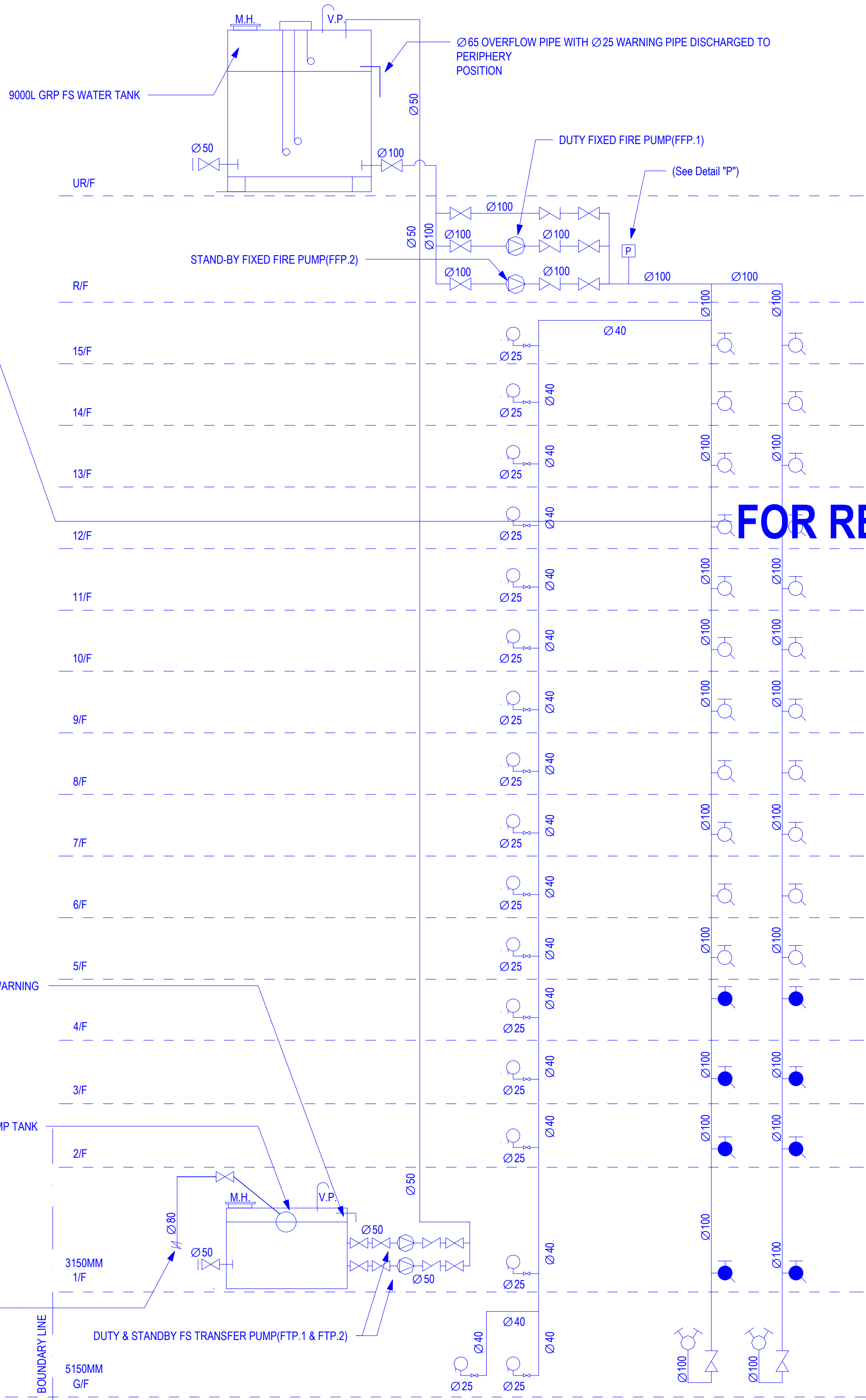


2 1:1000



1:500

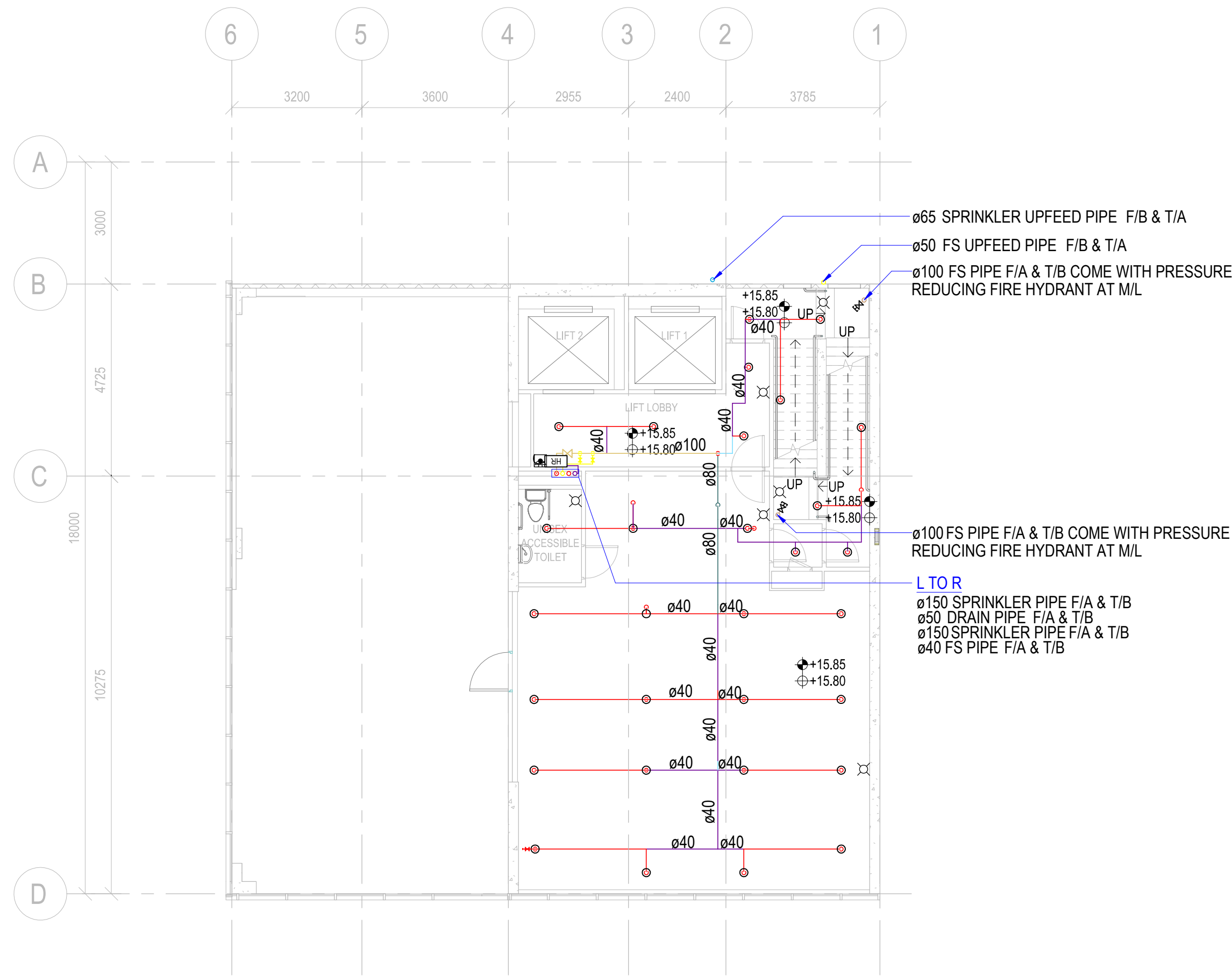
D.O.REFERENCE		
F.S.D.REFERENCE		
W.W.O.REFERENCE		
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0	1ST SUBMISSION	08-03-2021
REV	DESCRIPTION	DATE
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APPROVED	APPROVER	dd/mm/yyyy
CHECKED	CHECKER	dd/mm/yyyy
DESIGNED	DESIGNER	dd/mm/yyyy
DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
LEGENDS, ABBREVIATIONS & GENERAL NOTES		
PROJECT NUMBER		
PURPOSE OF ISSUE		
PLANNING SUBMISSION		
SCALE		
As indicated A1		
DRAWING NO.		REV
PXXXXX / FS001		0



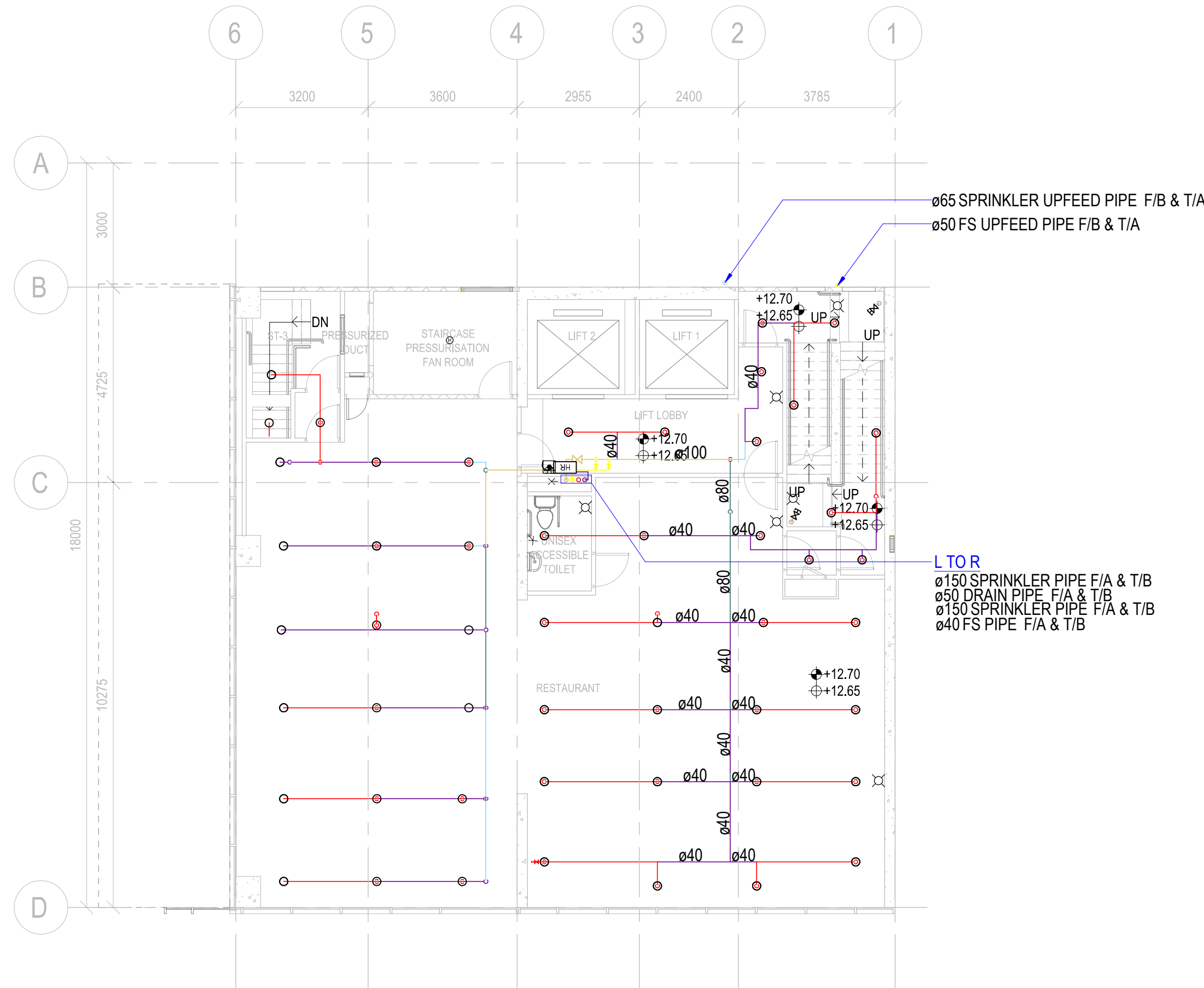
2 SCHEMATIC PIPING DIAGRAM OF FH/HR SYSTEM
1:100

1 SCHEMATIC PIPING DIAGRAM OF SPRINKLER SYSTEM
1:100

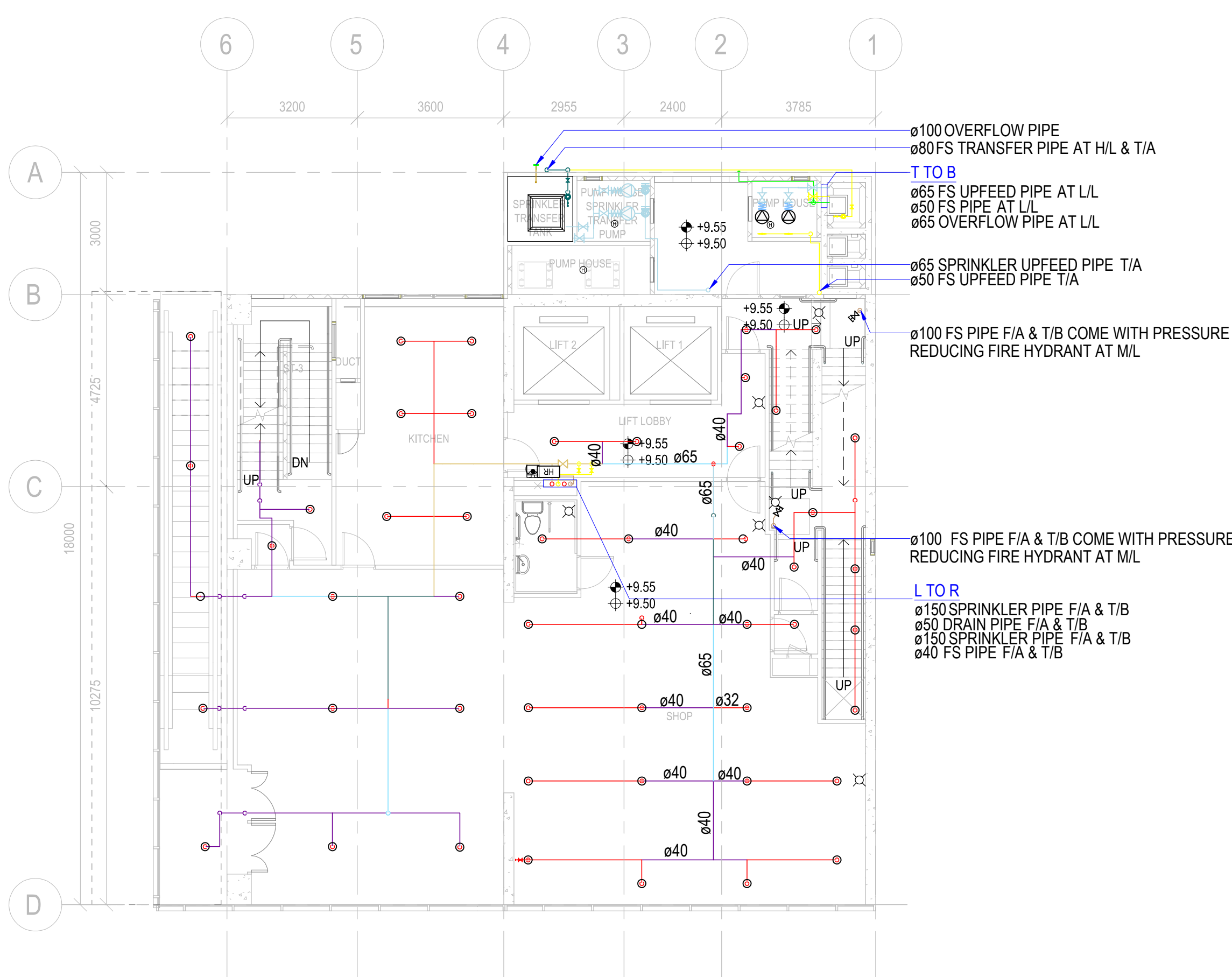
B.D. REFERENCE		
F.S.D. REFERENCE		
W.W.O. REFERENCE		
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DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
SCHEMATIC		
PROJECT NUMBER PXXXXX		
PURPOSE OF ISSUE PLANNING SUBMISSION		
SCALE 1:100 A1		
DRAWING NO. PXXXXX / FS100		
REV 0		



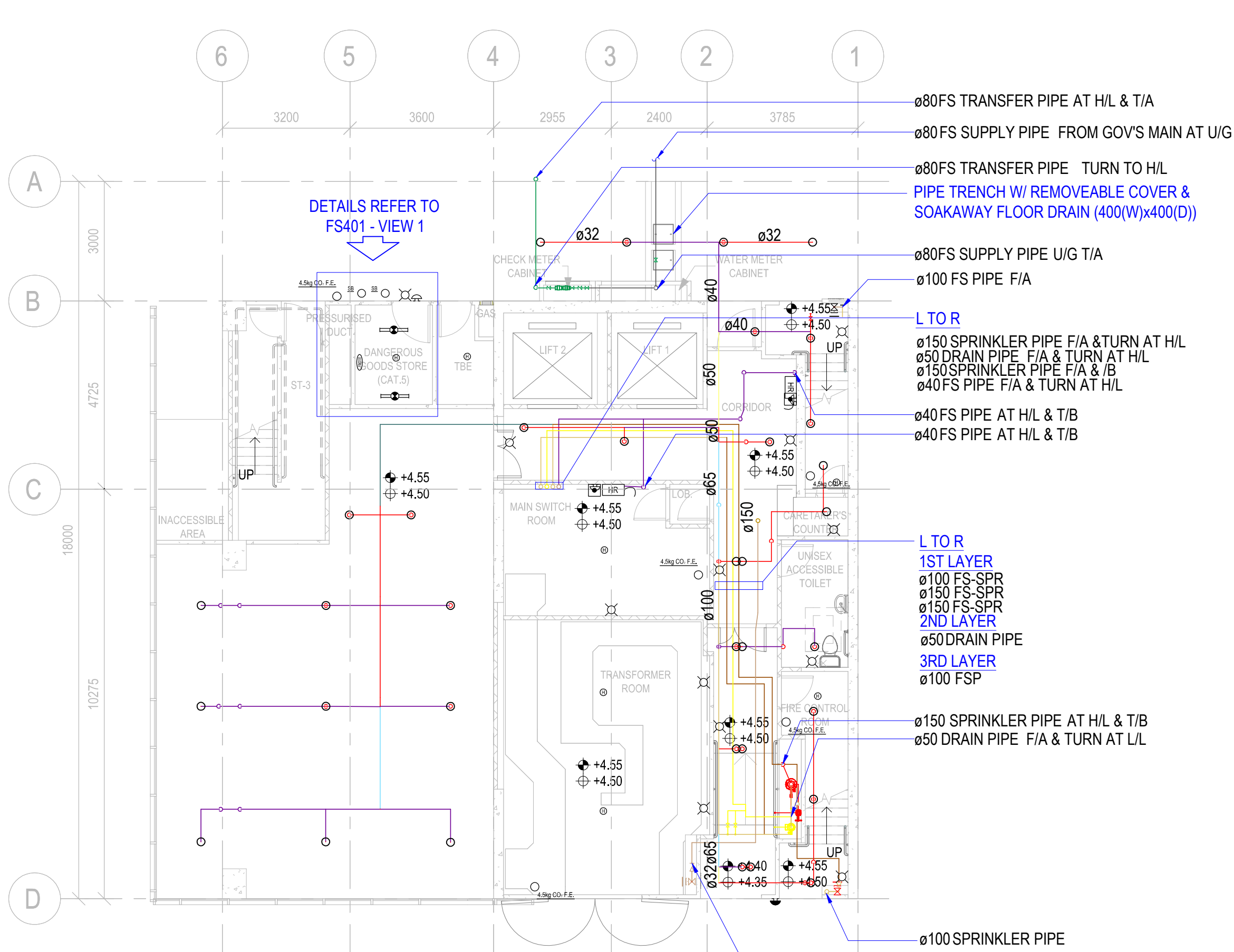
4 L03 PLAN
1:100



3 L02 PLAN
1:100



2 L01 PLAN
1:100



1 GF PLAN
1:100

B.D.REFERENCE

F.S.D.REFERENCE

W.W.O.REFERENCE

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0 1ST SUBMISSION08-03-2021

REV

DESCRIPTION

DATE

APPROVED

APPROVER

dd/mm/yyyy

CHECKED

CHECKER

dd/mm/yyyy

DESIGNED

DESIGNER

dd/mm/yyyy

DRAWN

BIM MODELLER

dd/mm/yyyy

PROJECT

CIC SAMPLE PROJECT

DRAWING TITLE

F.S.LAYOUT PLAN AT LEVEL GF, L01, L02, L03

PROJECT NUMBER

PXXXXX

PURPOSE OF ISSUE

PLANNING SUBMISSION

SCALE

1:100 A1

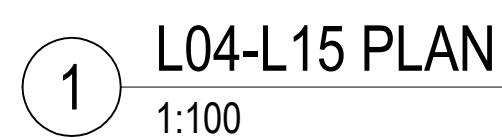
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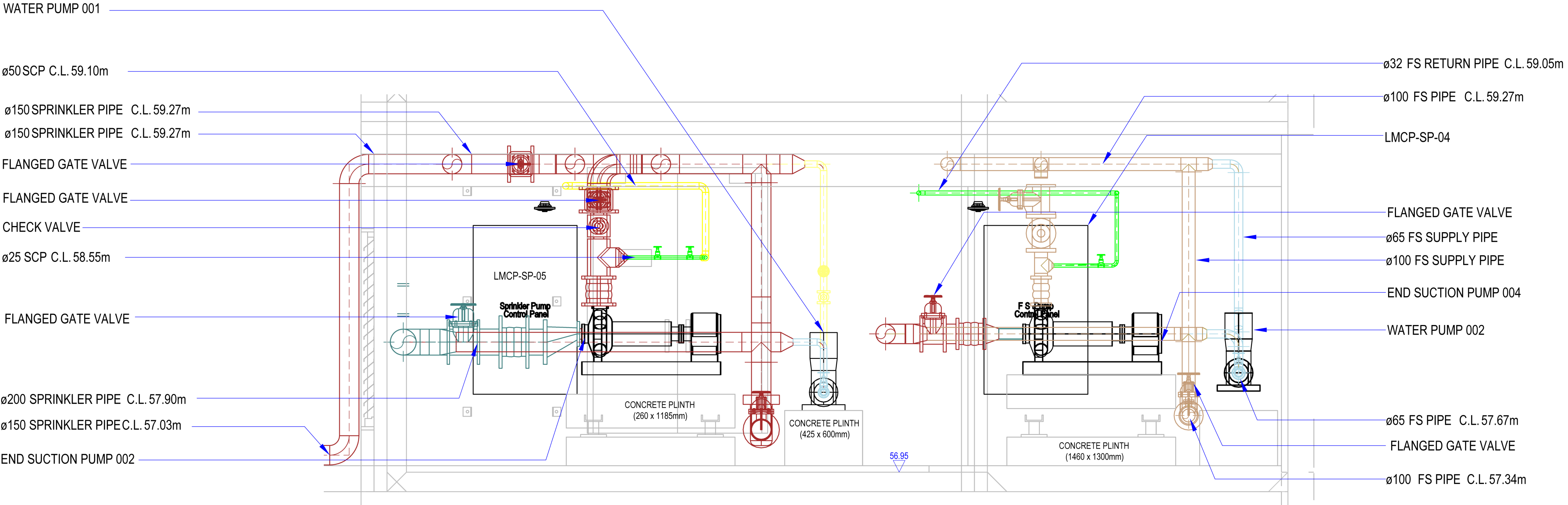
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REV

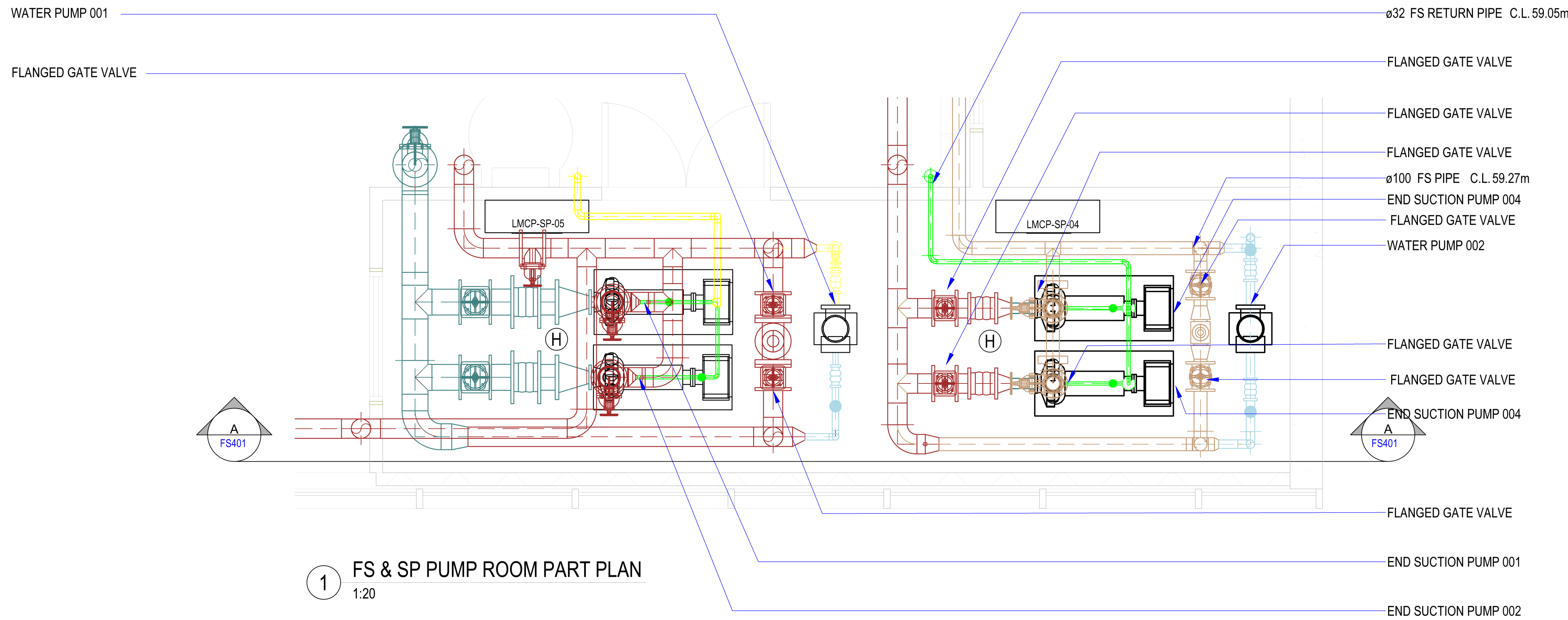
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PLOT DRW:
MODELNAME:
FILENAME:
PRINTED BY:





A Section A-A (SPRINKLER PUMP ROOM)
1:20



1 FS & SP PUMP ROOM PART PLAN
1:20

B.D.REFERENCE

F.S.D.REFERENCE

W.W.O.REFERENCE

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1ST SUBMISSION

08-03-2021

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APPROVED

APPROVER

dd/mm/yyyy

CHECKED

CHECKER

dd/mm/yyyy

DESIGNED

DESIGNER

dd/mm/yyyy

DRAWN

BIM MODELLER

dd/mm/yyyy

PROJECT

CIC SAMPLE PROJECT

DRAWING TITLE

F.S. ROOF SPRINKLER PUMP ROOM AT LEVEL RF

PROJECT NUMBER

PXXXXX

PURPOSE OF ISSUE

PLANNING SUBMISSION

SCALE

1 : 20 A1

DRAWING NO.




REV

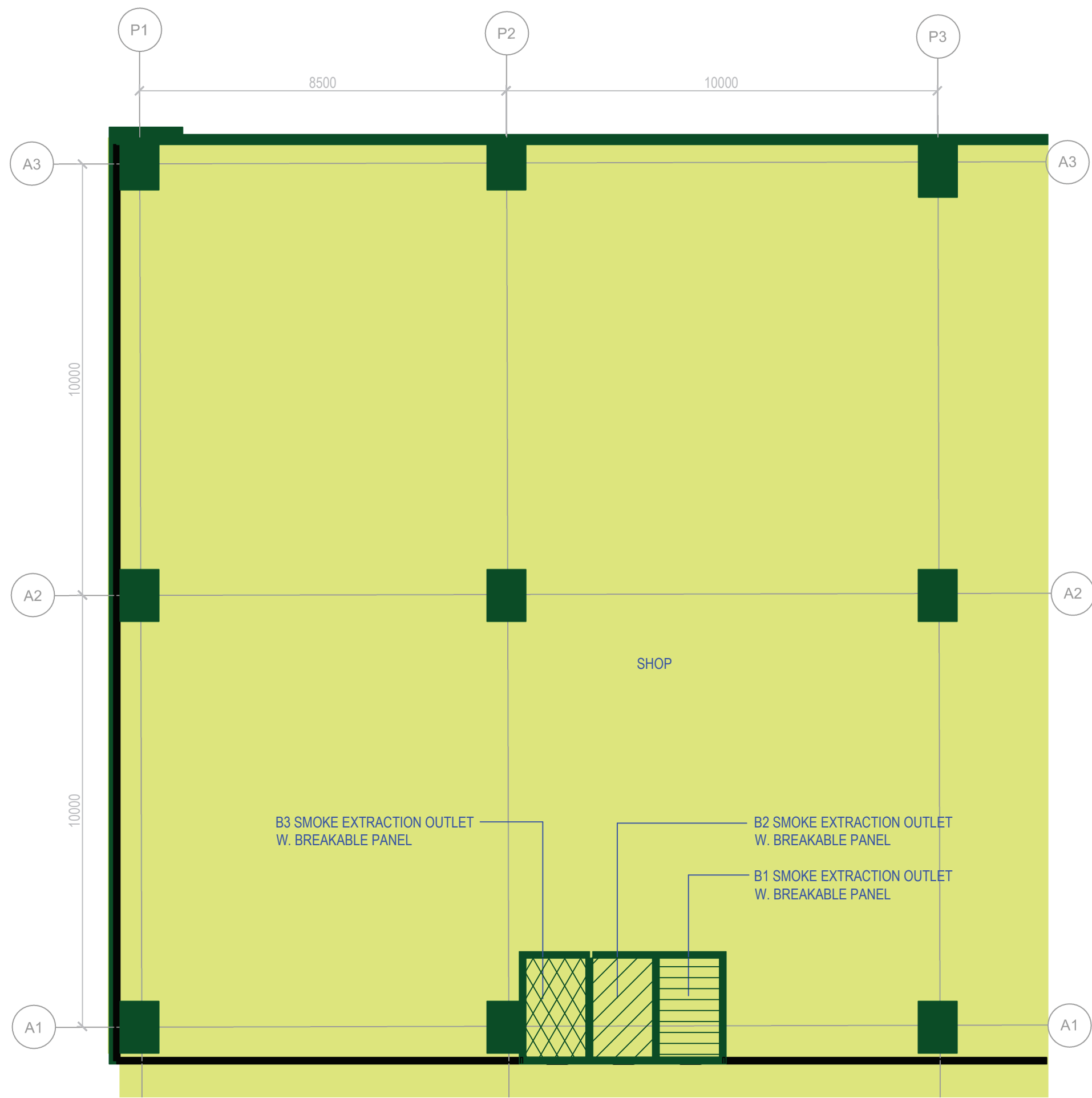
PXXXXX / FS400

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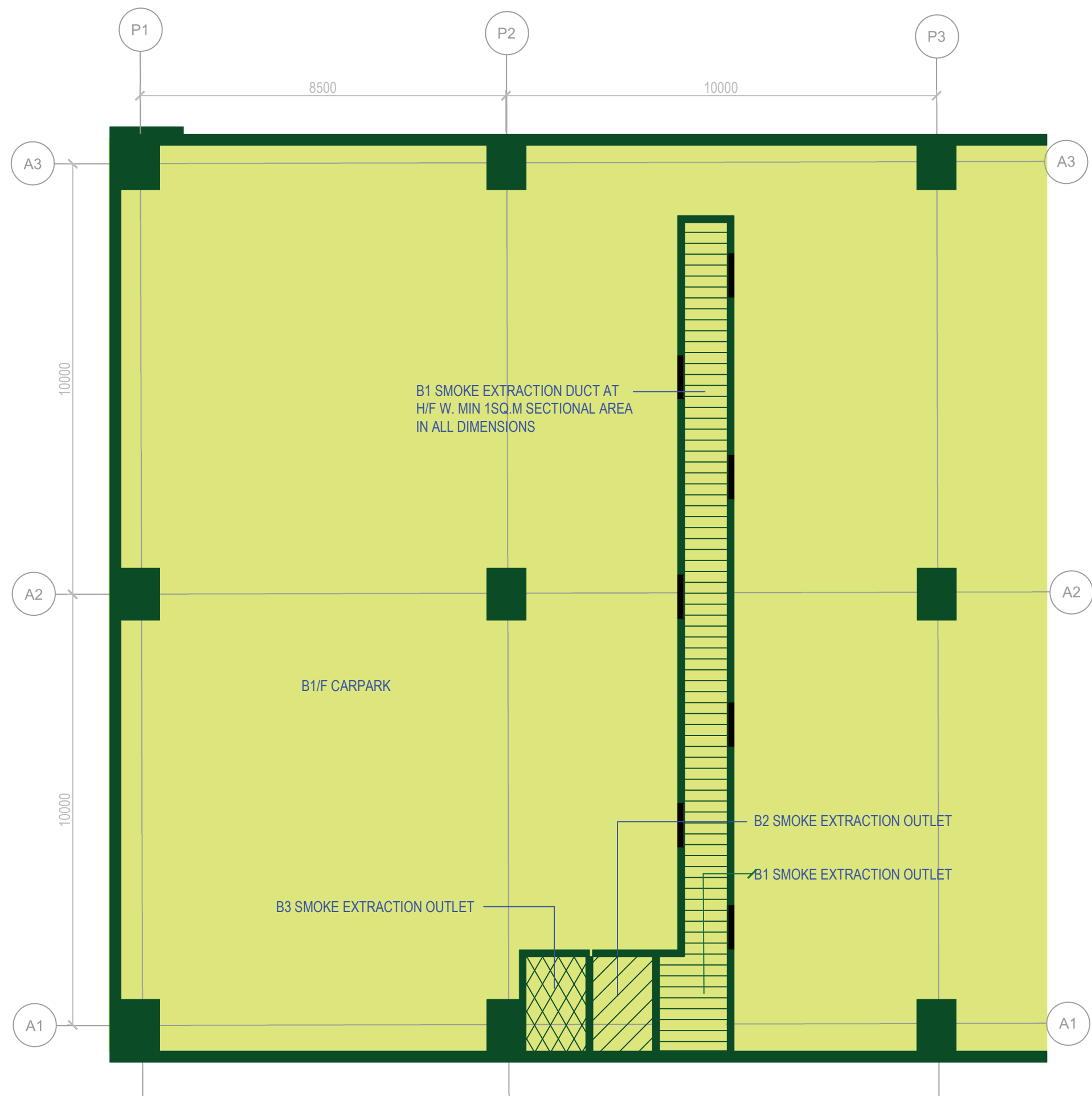
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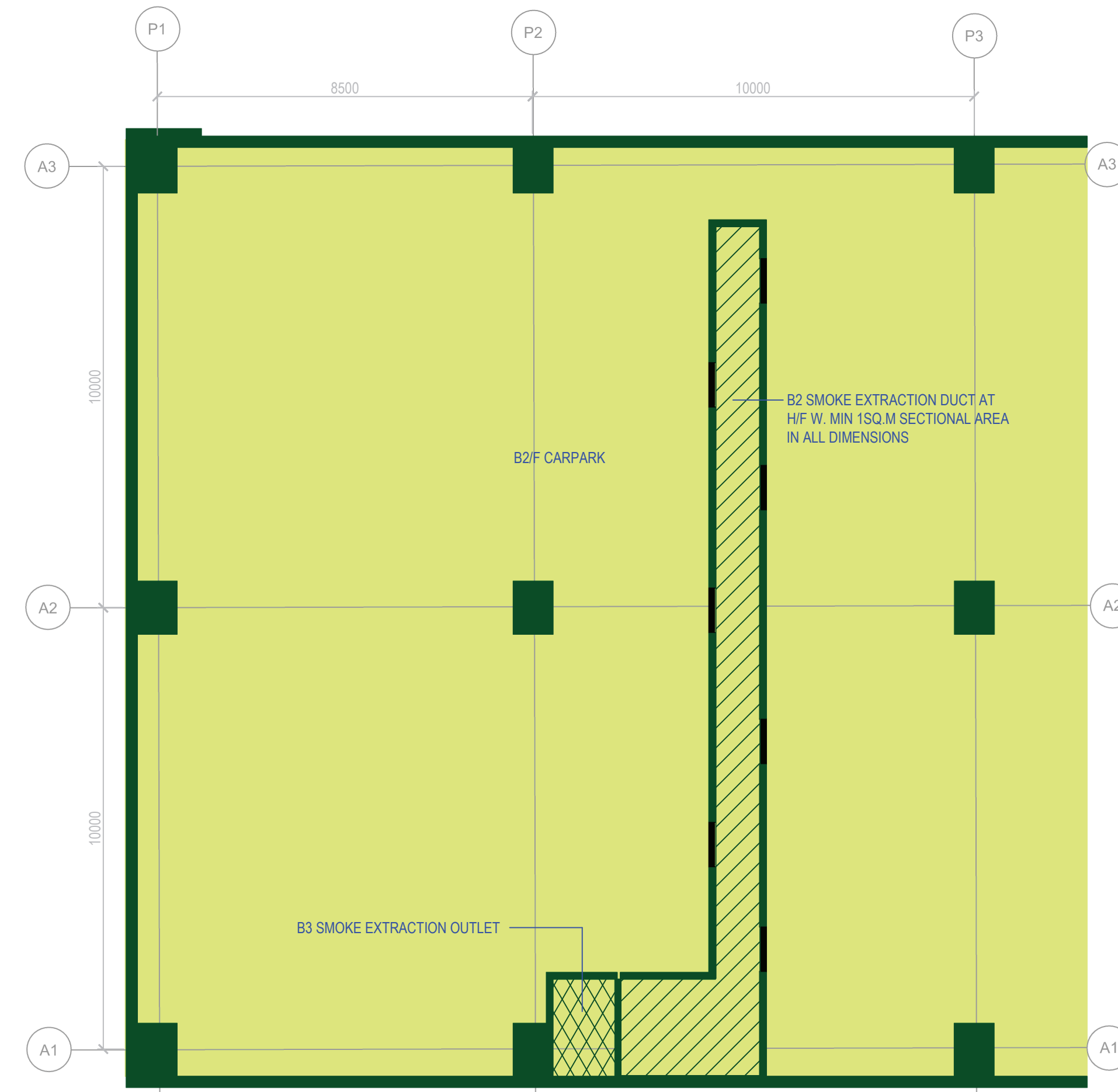
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CONSULTANT LOGO		
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DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
F.S. DANGEROUS GOOD STORE LAYOUT AT LEVEL GF		
		
PROJECT NUMBER		
PXXXXX		
PURPOSE OF ISSUE		
PLANNING SUBMISSION		
SCALE		
As indicated A1		
DRAWING NO.		
PXXXXX / FS401		
REV		
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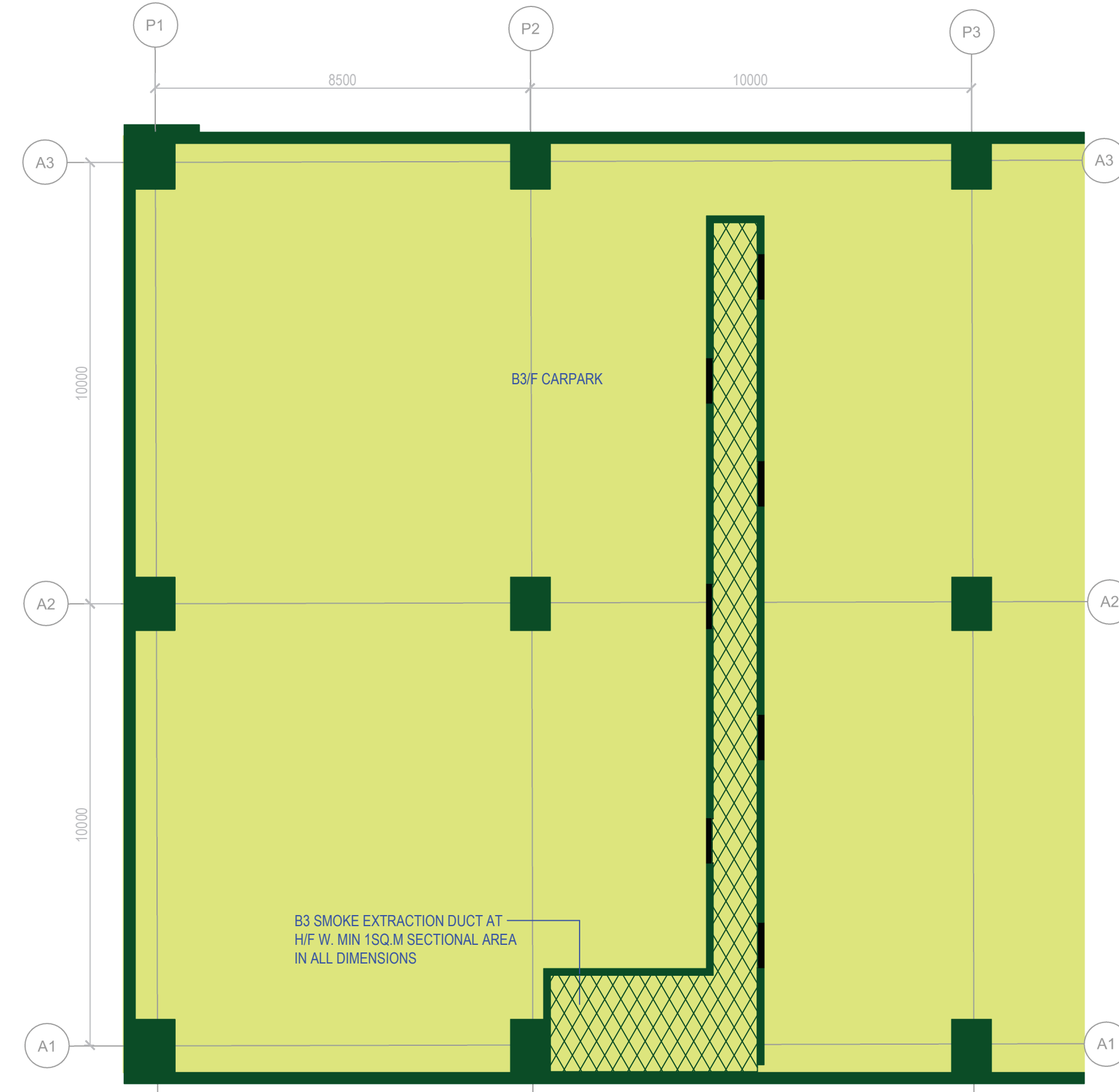
1 G/F PART PLAN SHOWING SMOKE EXTRACTION
1:100



2 B1 PART PLAN SHOWING SMOKE EXTRACTION
1:100



3 B2 PART PLAN SHOWING SMOKE EXTRACTION
1:100



4 B3 PART PLAN SHOWING SMOKE EXTRACTION
1:100

B.D.REFERENCE

F.S.D.REFERENCE

W.W.O.REFERENCE

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1ST SUBMISSION

08-03-2021

REV

DESCRIPTION

DATE

APPROVED

APPROVER

dd/mm/yyyy

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DESIGNED

DESIGNER

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DRAWN

BIM MODELLER

dd/mm/yyyy

PROJECT

CIC SAMPLE PROJECT

DRAWING TITLE

F.S. STATIC SMOKE EXTRACTION PLAN

PROJECT NUMBER

PXXXXX

PURPOSE OF ISSUE

PLANNING SUBMISSION

SCALE


As indicated A1

DRAWING NO.

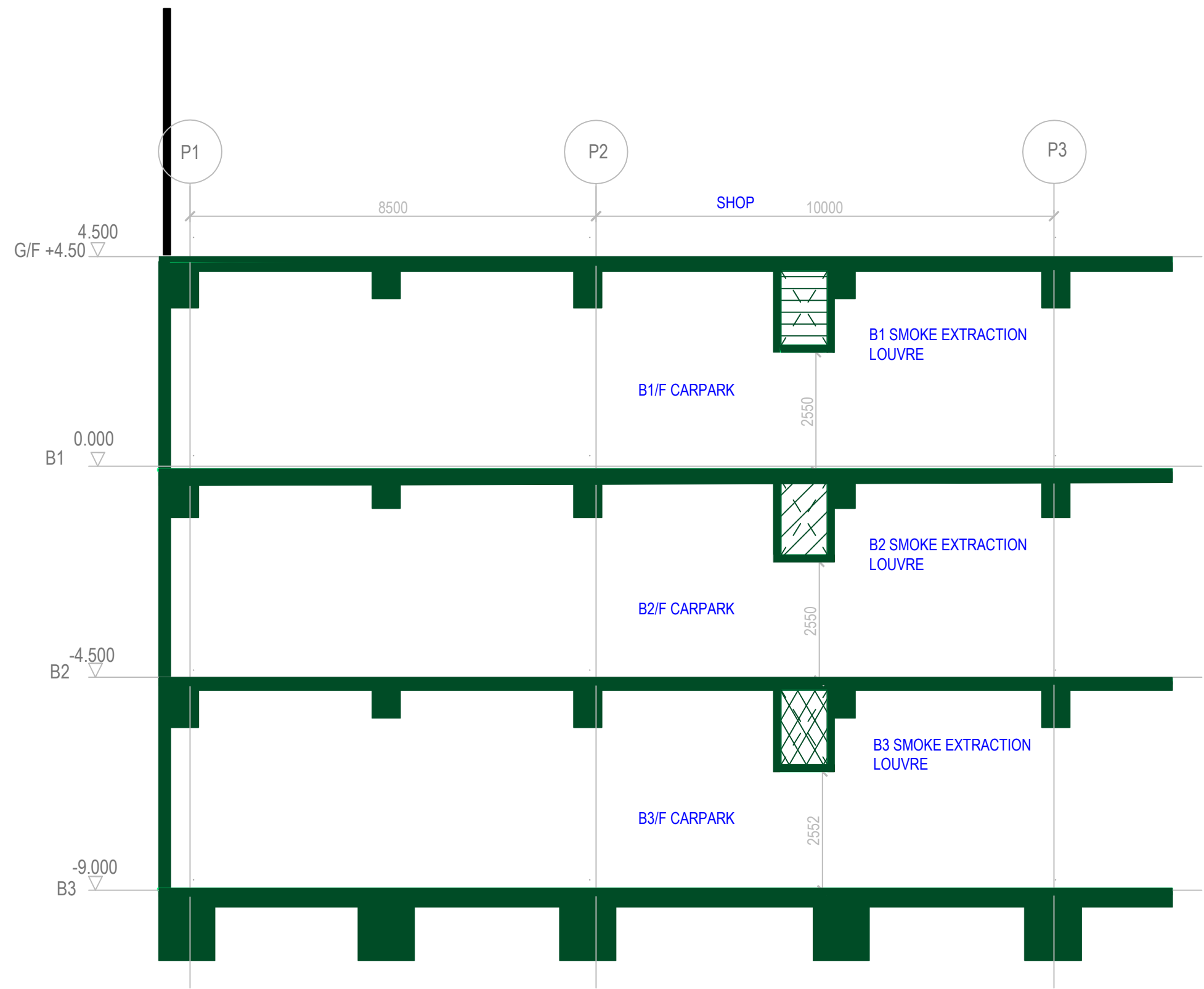
PXXXXX/ FS500

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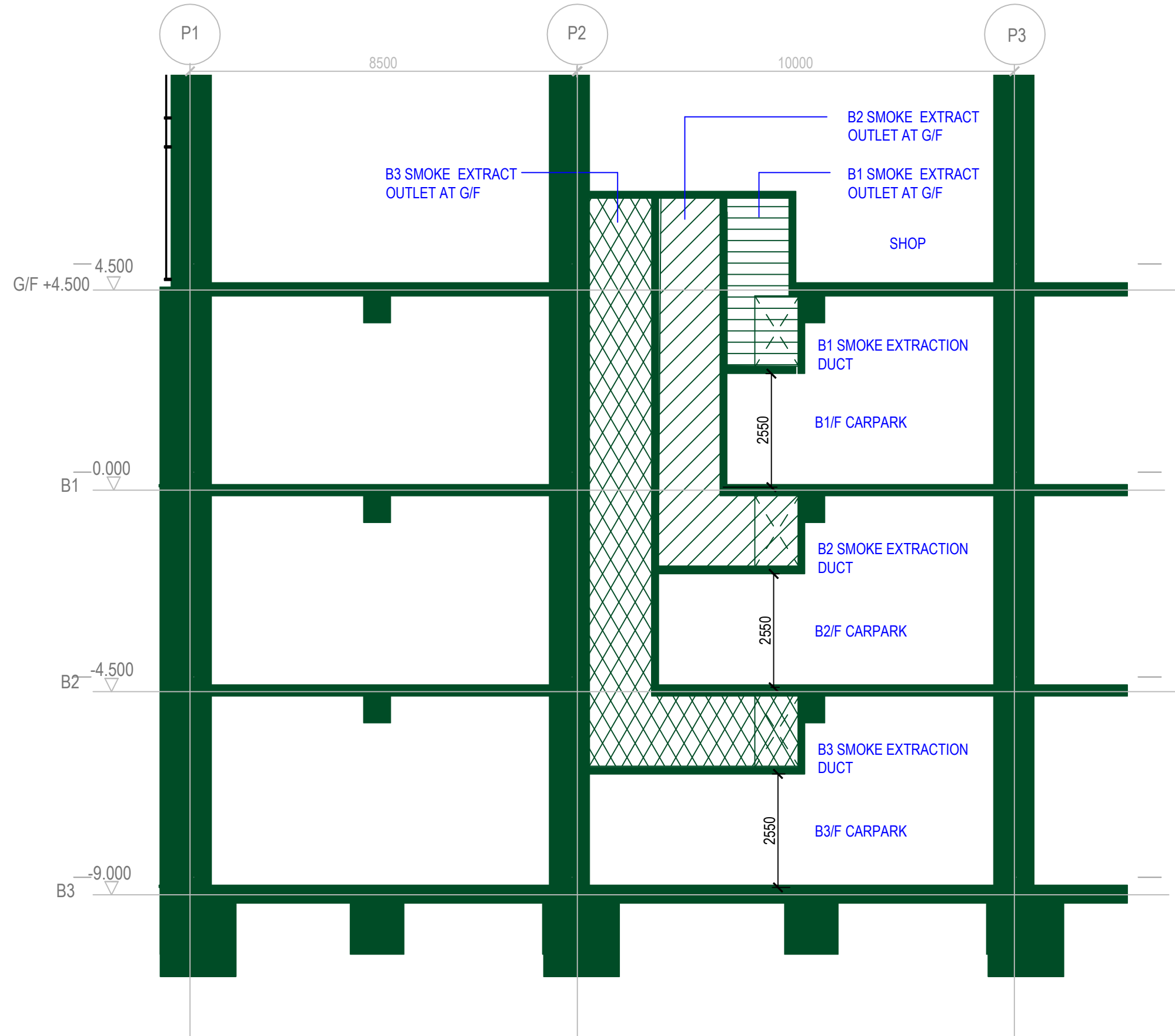
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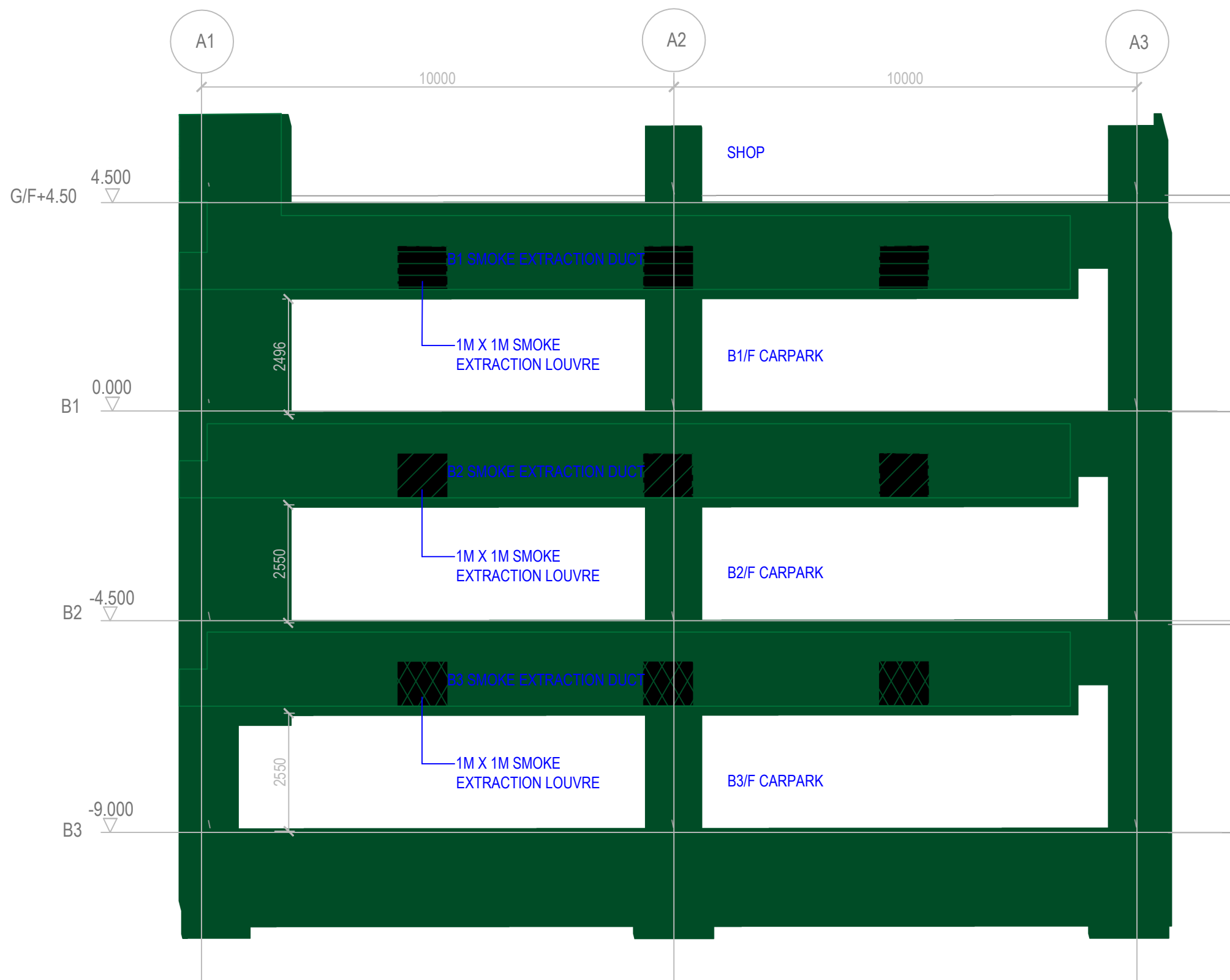
PLOT DRY:
MODELNAME:
FILENAME:
PRINTED BY:





2 SECTION THROUGH SMOKE EXTRACTION DUCT
1:100



1 SECTION THROUGH SMOKE EXTRACTION DUCT
1:100



3 SECTION THROUGH SMOKE EXTRACTION DUCT
1:100

B.D. REFERENCE		
F.S.D. REFERENCE		
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0 1ST SUBMISSION 08-03-2021		
REV	DESCRIPTION	DATE
	NAME AND DESIGNATION	DATE
APPROVED	APPROVER	dd/mm/yyyy
CHECKED	CHECKER	dd/mm/yyyy
DESIGNED	DESIGNER	dd/mm/yyyy
DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
F.S. STATIC SMOKE EXTRACTION SECTION		
PROJECT NUMBER PXXXXX		
PURPOSE OF ISSUE PLANNING SUBMISSION		
SCALE As indicated A1		
DRAWING NO. PXXXXX/ FS501		
REV 0		

GENERAL NOTES

1. ALL PLUMBING WORKS SHALL FULLY COMPLY WITH THE LATEST GENERAL SPECIFICATION FOR PLUMBING & DRAINAGE INSTALLATION OF ARCHITECTURAL SERVICES DEPARTMENT
2. MATERIAL OF WATER SUPPLY PIPE & FITTINGS :
- a. FRESH WATER PIPE

UNDER GROUND	ABOVE GROUND
- FOR Ø80mm AND ABOVE, DUCTILE IRON PIPE TO BS EN 545 CLASS K12.	- FOR ABOVE Ø54, (FOR POTABLE WATER) DUCTILE IRON PIPE TO BS 3605 PART 2 IN 316 GRADE.
- FOR BELOW Ø80mm, STAINLESS STEEL PIPE TO BS EN 10312 (EQUIVALENT BS 4127) SERIES 3 IN GRADE 316 WITH CONCRETE SURROUND.	- FOR Ø54 AND BELOW, (FOR POTABLE WATER) STAINLESS STEEL PIPE TO BS 4127 IN 316 GRADE.
	- FOR Ø80mm AND ABOVE, (FOR CLEANSING & IRRIGATION) DUCTILE IRON PIPE TO BS EN 545 CLASS K12.
	- FOR BELOW Ø80mm, (FOR CLEANSING & IRRIGATION) COPPER PIPE TO BS EN 1057, R250 WITH CAPILLARY JOINTS.

ALL CONNECTION JOINTS TO BE PAINTED TO MATCH THE INSULATION COLOR.

b. FLUSHING WATER PIPE

UNDER GROUND	ABOVE GROUND
- FOR Ø80mm AND ABOVE, DUCTILE IRON PIPE TO BS EN 545 CLASS K12.	- FOR Ø80 AND ABOVE, DUCTILE IRON PIPE TO BS EN 545 CLASS K12.
- FOR BELOW Ø80mm, UNPLASTICISED POLYVINYL CHLORIDE (UPVC) PIPE TO ISO 4422 - PART 1 & PART 2 (EQUIVALENT BS 3505), CLASS D OR ABOVE WITH FITTING TO ISO 4422 - PART 3 (EQUIVALENT BS 4346) WITH 150mm MINIMUM THICKNESS OF CONCRETE SURROUND.	- FOR BELOW Ø80, UNPLASTICISED POLYVINYL CHLORIDE (UPVC) PIPE TO ISO 4422 - PART 1 & PART 2 (EQUIVALENT BS 3505), CLASS D OR ABOVE WITH FITTING TO ISO 4422 - PART 3 (EQUIVALENT BS 4346).

c. FIRE SERVICE WATER PIPE

UNDER GROUND	ABOVE GROUND
DUCTILE IRON PIPE TO BS EN 545 CLASS K12.	HOT DIP ZINC COATED GALVANIZED STEEL PIPE TO BS EN 10255.

3. WATER POINT(S) FOR PLANTER TO BE PROVIDED WITH LOCKING DEVICE AND INSTALLED AT 1000mm HIGH ABOVE GROUND LEVEL.
4. ACTUAL INLET LEVEL FOR WATER STORAGE TANKS TO BE DECIDED ON SITE.
5. ALL WATER METERS TO BE SITED ABOVE GROUND LEVEL HORIZONTALLY AND SUPPLY PIPES BEFORE THE METERS AT GROUND LEVEL TO BE LAID IN EXPOSED MANNER.
6. ALL WATER METERS TO BE LOCATED IN BETWEEN 300mm TO 1500mm ABOVE GROUND LEVEL.
7. THE LOCATION OF BRANCH VALVES AND THE CONTROL VALVES SERVING THE GROUP OF SUPPLY POINTS TO BE REFERRED TO SCHEMATIC DIAGRAM OF WATER SUPPLY.
8. NO WATER PIPE SHALL BE EMBEDDED IN LOAD BEARING STRUCTURAL ELEMENTS SUCH AS COLUMNS, BEAMS AND SLABS IN LONGITUDINAL DIRECTION.
9. THE WATER PIPES THROUGH STRUCTURAL ELEMENTS TO BE PROTECTED BY SLEEVING WITH PROPRIETARY FIRE STOP OF 2 HOURS FIRE RESISTANCE PERIOD (F.R.P.).
10. ALL PIPES BRANCH OFF FROM PIPE DUCT MUST BE PROVIDED WITH FIRE RESISTANCE COLLAR.
11. ALL EXPOSED PIPES TO BE PAINTED WITH THE COLOUR MATCHED TO WALLS OR CEILINGS.
12. MATCHING COVER FOR VALVE PITS TO BE 450x450mm CLEAR OPENING HEAVY DUTY GALVANISED MILD STEEL DOUBLE SEAL RECESSED COVER & FRAME FOR 600mm TH. BLOCK PAVOR INFILL TO SUIT GALVANISED TO 11.5 TONNES SLOW MOVING WHEEL LOADS (SMWL), BS 729 AND WITH STAINLESS STEEL LABEL SHOWING AT THE CORNER (TO BE ADVISED BY SUPERVISOR OFFICER).
13. INDIVIDUAL STOP VALVES SHALL BE PROVIDED AT ALL DRAW-OFF POINTS OR AT A SERIES OF DRAW-OFF POINTS IF SITUATED CLOSE TOGETHER.
14. VALVE: PIPES GREATER THAN (OR EQUAL) Ø50mm GATE VALVE TO BE USED, LESS THAN Ø50mm STOP COCK TO BE USED, UNLESS OTHERWISE SPECIFIED.
15. DRAIN-OFF PIPES AT ALL WATER STORAGE TANKS SHOULD BE PROPERLY PLUGGED OFF.
16. EXCEPT PLANT ROOM AREAS, ALL PLUMBING PIPES UNLESS INSTALLED WITHIN FALSE CEILING, LEDGE WALL OR PIPE DUCTS, TO BE EMBEDDED IN NON-STRUCTURAL WALLS OR FLOOR SCREED WHENEVER PRACTICABLE.
17. FIBREGLASS WATER TANK TO BE MADE OF NON-TOXIC MATERIAL AND APPROVED BY WSD.
18. ALL OVERFLOW PIPES AND Ø25 WARNING PIPE TO WATER TANKS TO BE uPVC PIPE AND TO BE PROVIDED WITH A SELF-CLOSING NON-RETURN FLAP AT THE END OF THE PIPES. ALL WARNING PIPE SHALL BE EXTENDED TO OUTSIDE THE PUMP ROOM FOR SUMP CISTERN AND DISCHARGE OVERFLOW WATER TO A CONSPICUOUS POSITION IN A COMMUNAL AREA EASILY VISIBLE AND ACCESSIBLE BY THE OCCUPANTS.
19. WHERE NECESSARY A WARNING PIPE MAY BE INSTALLED IN ADDITION TO AN OVERFLOW PIPE TO CONSPICUOUS POSITION. WARNING PIPE MUST COMPLY WITH ALL OTHER REQUIREMENTS OF AN OVERFLOW PIPE.
20. OPENINGS LEFT IN FIRE RATED WALLS/FLOOR SLABS AFTER CONSTRUCTION OF PIPES AND PIPE SLEEVE PENETRATING THROUGH SUCH WALLS & FLOORS TO BE BACK FILLED WITH APPROVED FIRE RESISTANT MATERIAL TO MAINTAIN THE REQUIRED FRP OF THAT WALL OR FLOOR SLAB.
21. THE ACTUAL TEE CONNECTION TO WSD MAINS IS CARRIED OUT BY WATER SUPPLIES DEPARTMENT (WSD).
22. PIPE EXPANSION JOINTS WHETHER OR NOT SHOWN ON THE DRAWINGS SHALL BE PROVIDED FOR ANY PIPES ACROSS BUILDING EXPANSION JOINT. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF BUILDING EXPANSION JOINT ON SITE.
23. EXPANSION JOINTS FOR CABLE CONTAINMENT WHETHER OR NOT SHOWN ON THE DRAWINGS SHALL BE PROVIDED FOR ANY CABLE CONTAINMENT ACROSS BUILDING EXPANSION JOINT. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF BUILDING EXPANSION JOINT ON SITE.

ABBREVIATION

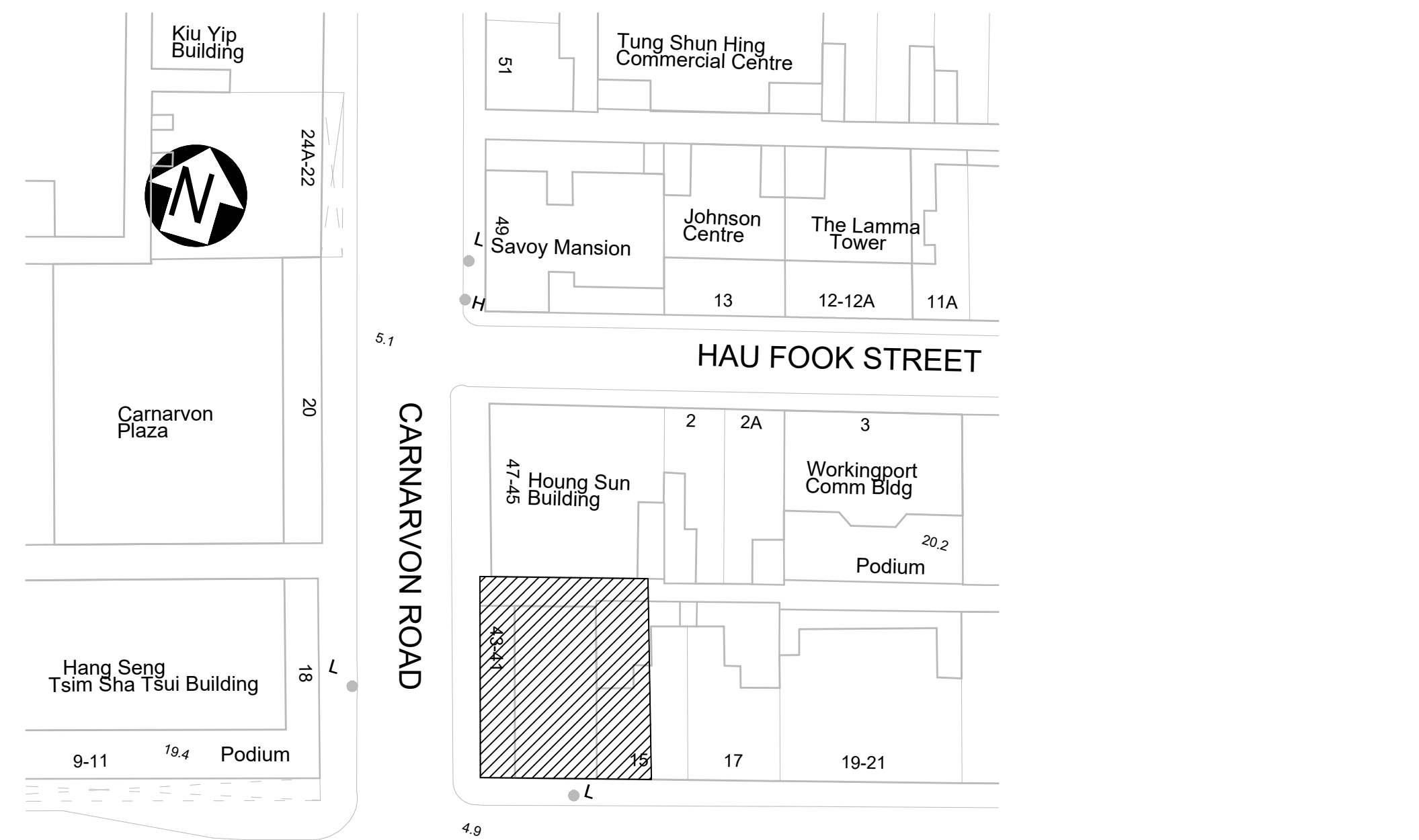
O.F.	OVERFLOW PIPE	F/A	FROM ABOVE
V.P.	VENT PIPE	F/B	FROM BELOW
D.O.	DRAIN OUT	T/A	TO ABOVE
G.V.	GATE VALVE	T/B	TO BELOW
N.R.V.	NON-RETURN VALVE	H/L	HIGH LEVEL
LJSC	LOOSE JUMPER TYPE STOPCOCK	L/L	LOW LEVEL
P.R.V.	PRESSURE REDUCING VALVE	U/S	UNDER SLAB
AAV	AUTOMATIC AIR VENTILATION	S.C.	STOP COCK

DRAWING LIST		
DRAWING NUMBER	DRAWING TITLE	REVISION
PL001	LEGENDS, ABBREVIATION AND GENERAL NOTES	0
PL100	SCHEMATIC	0
PL101	PLUMBING LAYOUT PLAN AT LEVEL GF, L01, L02, L03	0
PL102	PLUMBING LAYOUT PLAN AT LEVEL L04-L15, RF, URF, TRF	0
PL400	ARRANGMENT OF WATER METER CABINET AT LEVEL GF & RF	0
PL401	PLUMBING PUMP SERVICES AT L01	0
PL402	PLUMBING SECTION	0

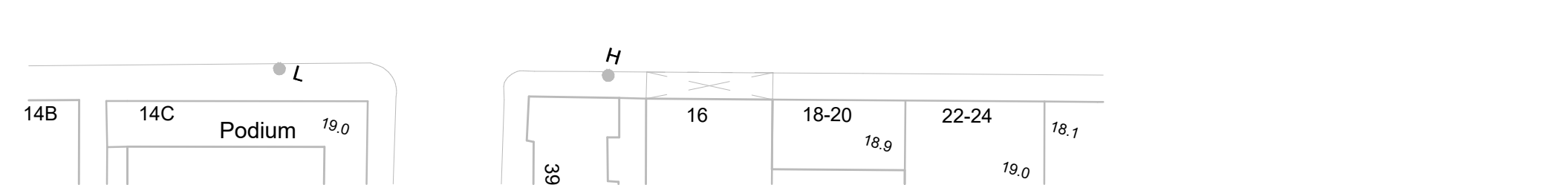
LEGEND

	POTABLE WATER SUPPLY PIPE (P.W.P.)		INSTANTANEOUS TYPE ELECTRIC UNDERSINK WATER HEATER (8kW)
	FLUSHING WATER SUPPLY PIPE (F.W.P.)		STOP COCK
	CLEANSING WATER SUPPLY PIPE (CL.W.P.)		GATE VALVE
	IRRIGATION WATER SUPPLY PIPE (I.R.W.P.)		NON-RETURN VALVE / CHECK VALVE
	POLYETHYLENE DRIPLINE (IRRIGATION SYSTEM)		FLEXIBLE CONNECTOR
	FIRE SERVICES WATER SUPPLY PIPE (FS.W.P.)		PRESSURE GAUGE WITH COCK
	WATER CLOSET WITH FLUSHING CISTERN		Y-TYPE STRAINER
	URINAL		CHECK METER POSITION
	SINK		WATER METER (WSD)
	CLEANERS SINK/ MOK		PUMP SET
	WATER DISPENSER		2-WAY MOTORIZED ON-OFF VALVE, ELECTRICALLY OPERATED C/W DDC CONTROL
	WATER TAP		FLOW METER
	LOCKABLE WATER TAP FOR CLEANSING		LOOSE JUMPER TYPE STOPCOCK
	LOCKABLE WATER POINT FOR PLANTER WITH ANTI-VACUUM VALVE AT HIGHEST POINT AND TO BE SITED WITH ITS OUTLET AT LEAST 1m ABOVE GROUND/SOIL LEVEL. LOCKABLE HOSE REEL BOX TO BE PROVIDED ASIDE.		AUTOMATIC AIR RELIEF VALVE C/W Ø20 ISOLATION GATE VALVE
	BALL VALVE		DOUBLE CHECK VALVE
	AUTOMATIC FLOATING SWITCH		RAIN SENSOR
	LEVEL SWITCH		

1 LOCATION PLAN
1:1000



2 SITE PLAN
1:500

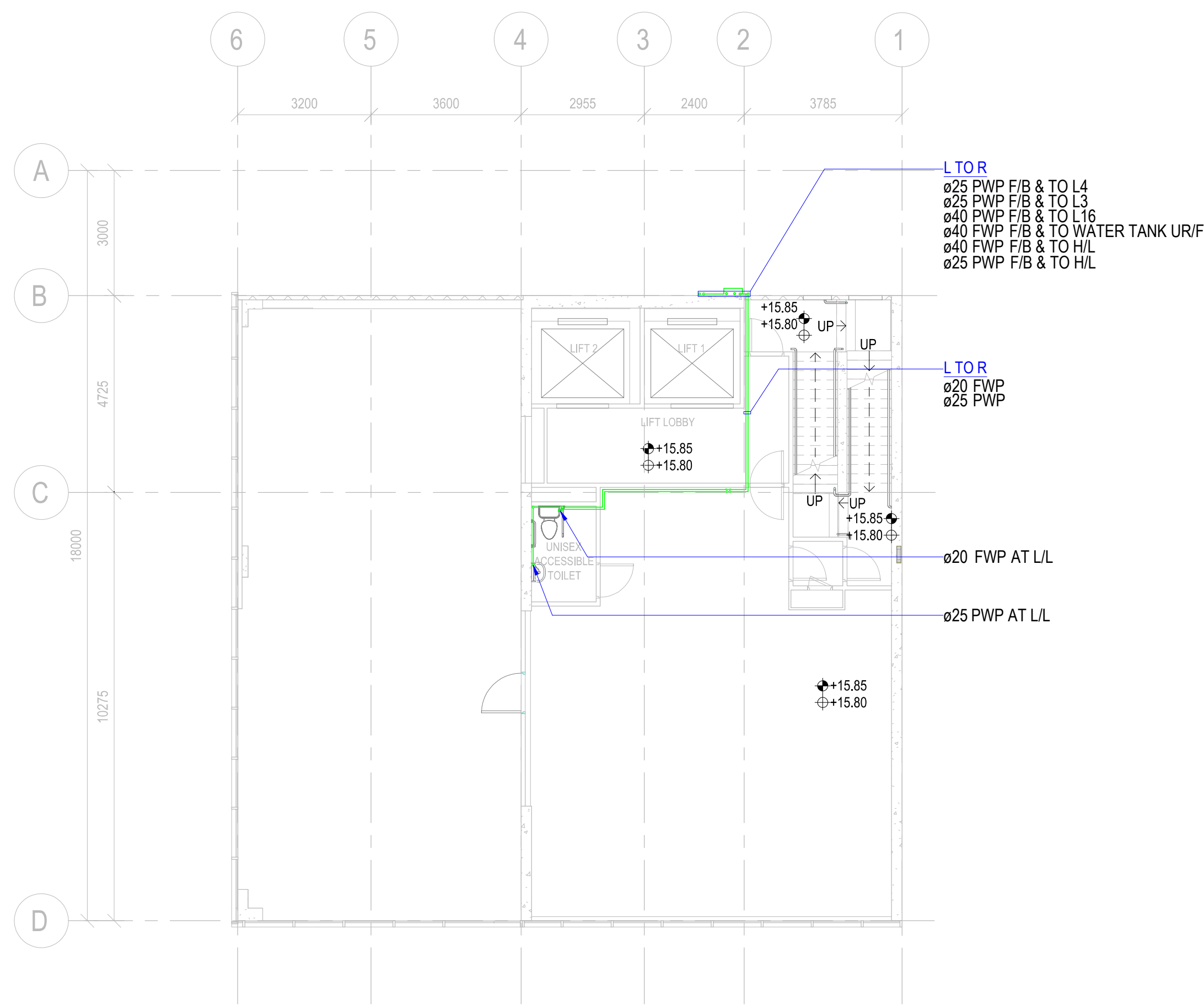


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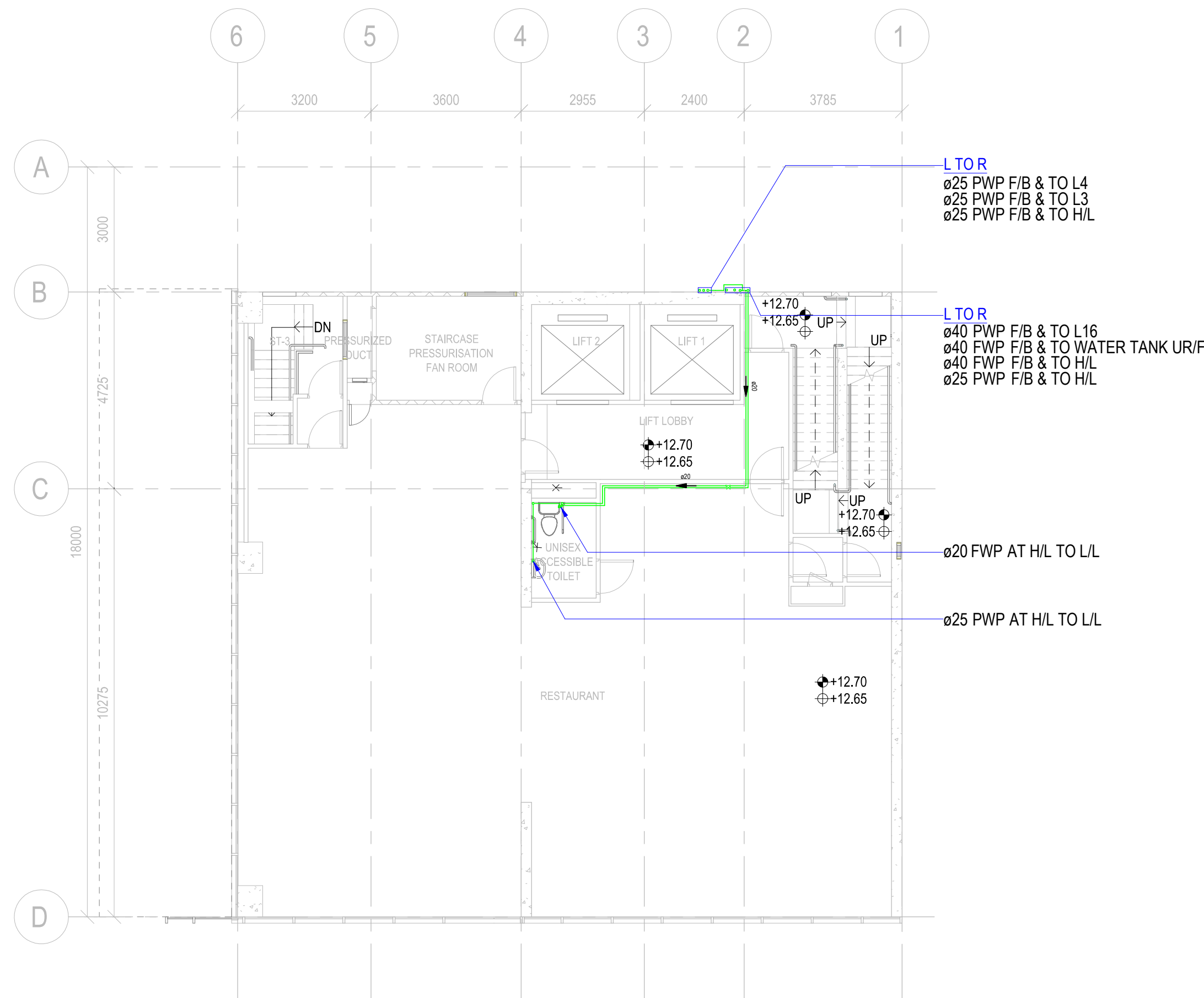


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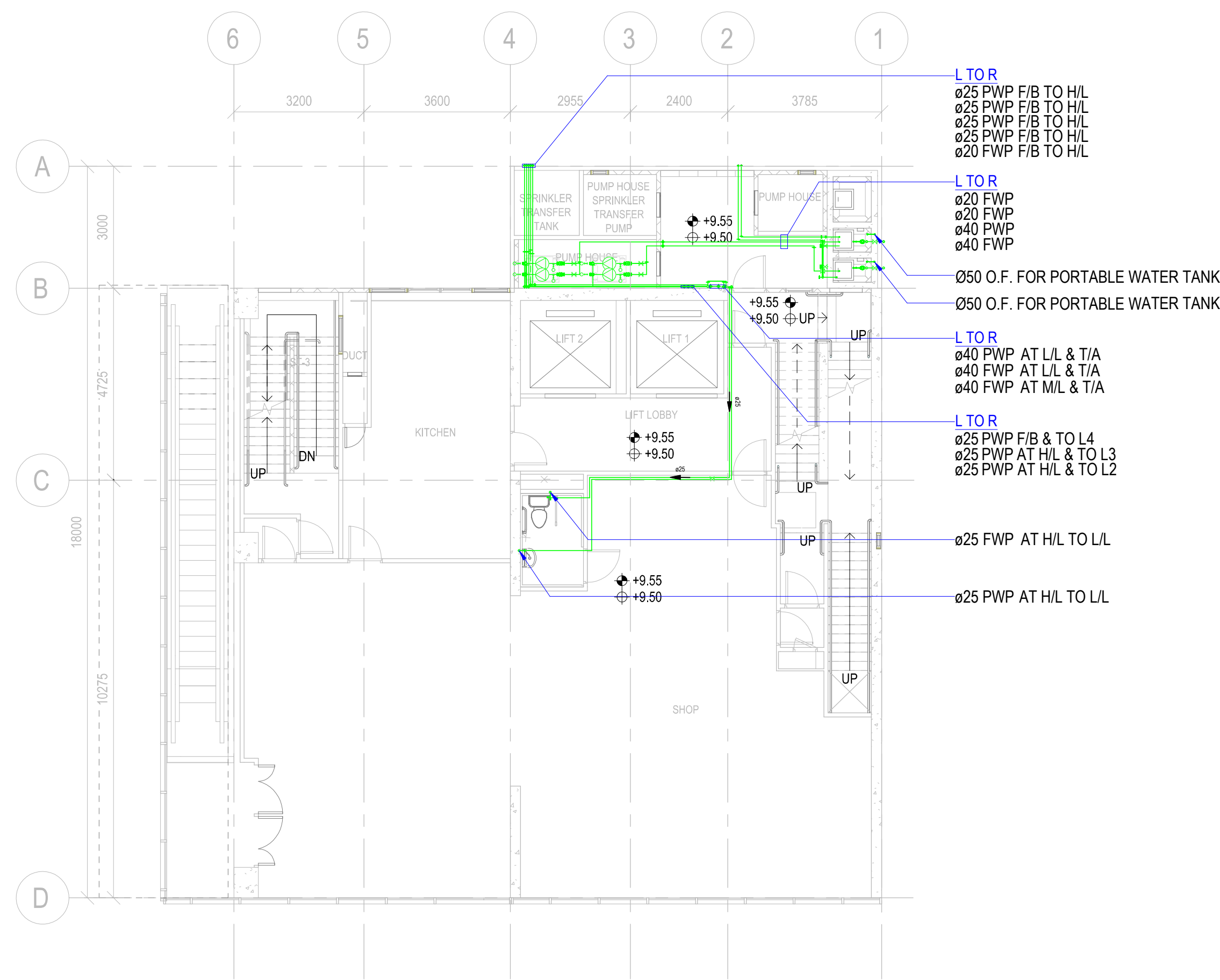




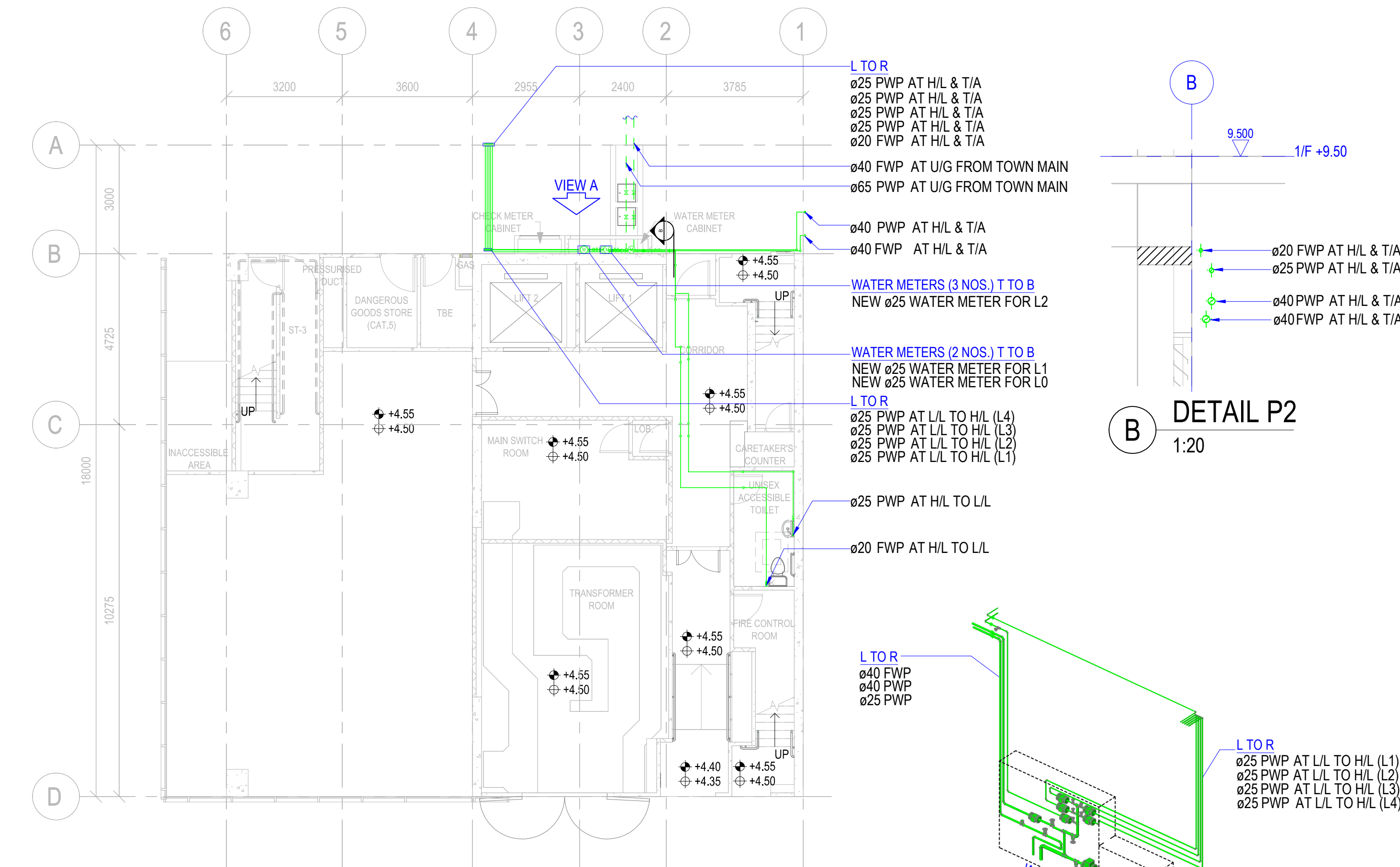
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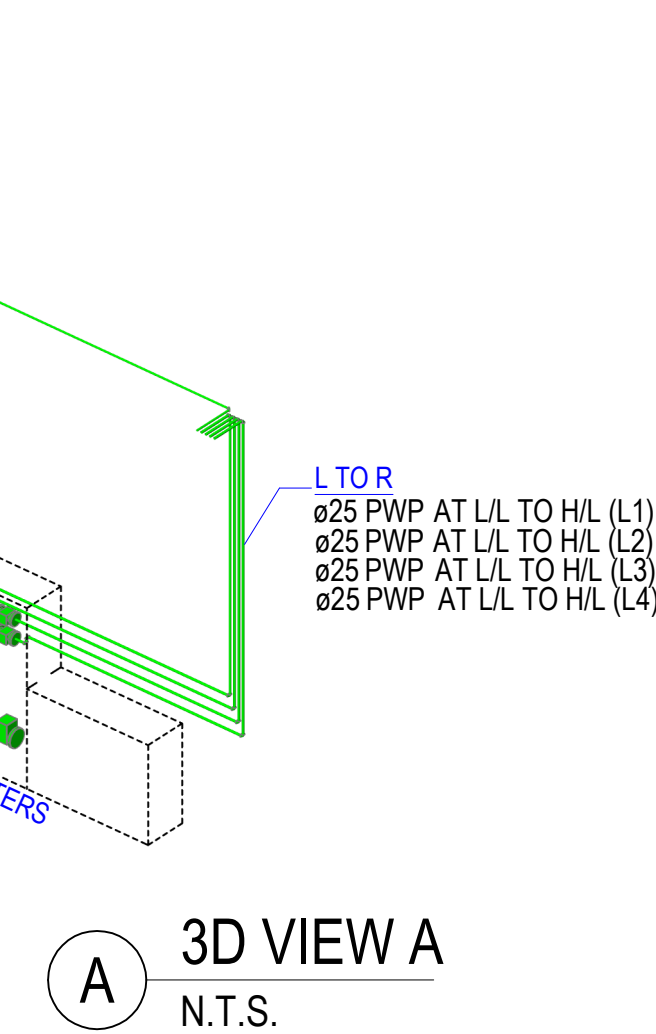
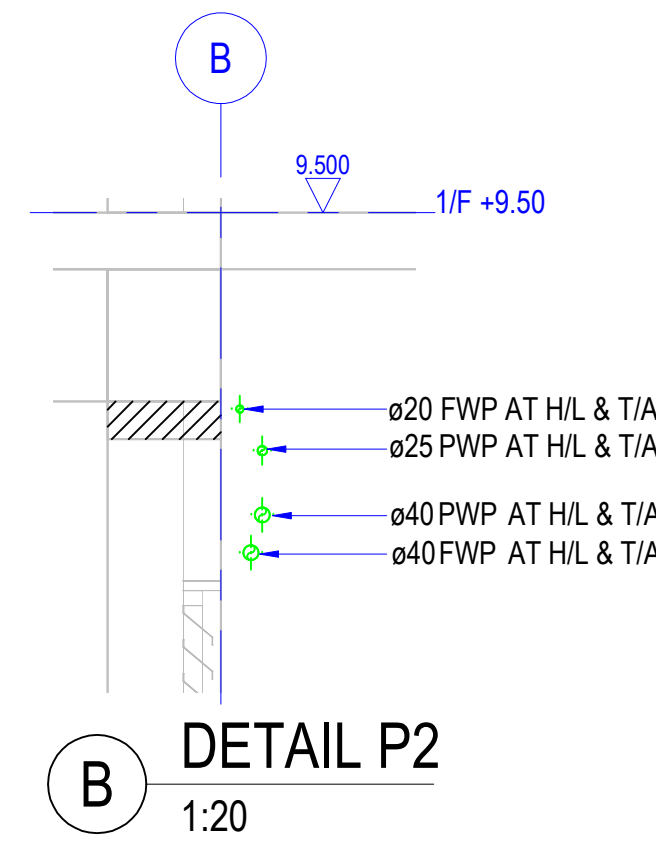
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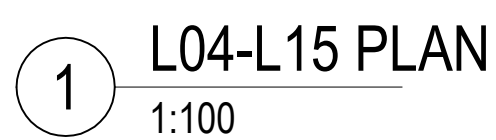
2 L01 PLAN
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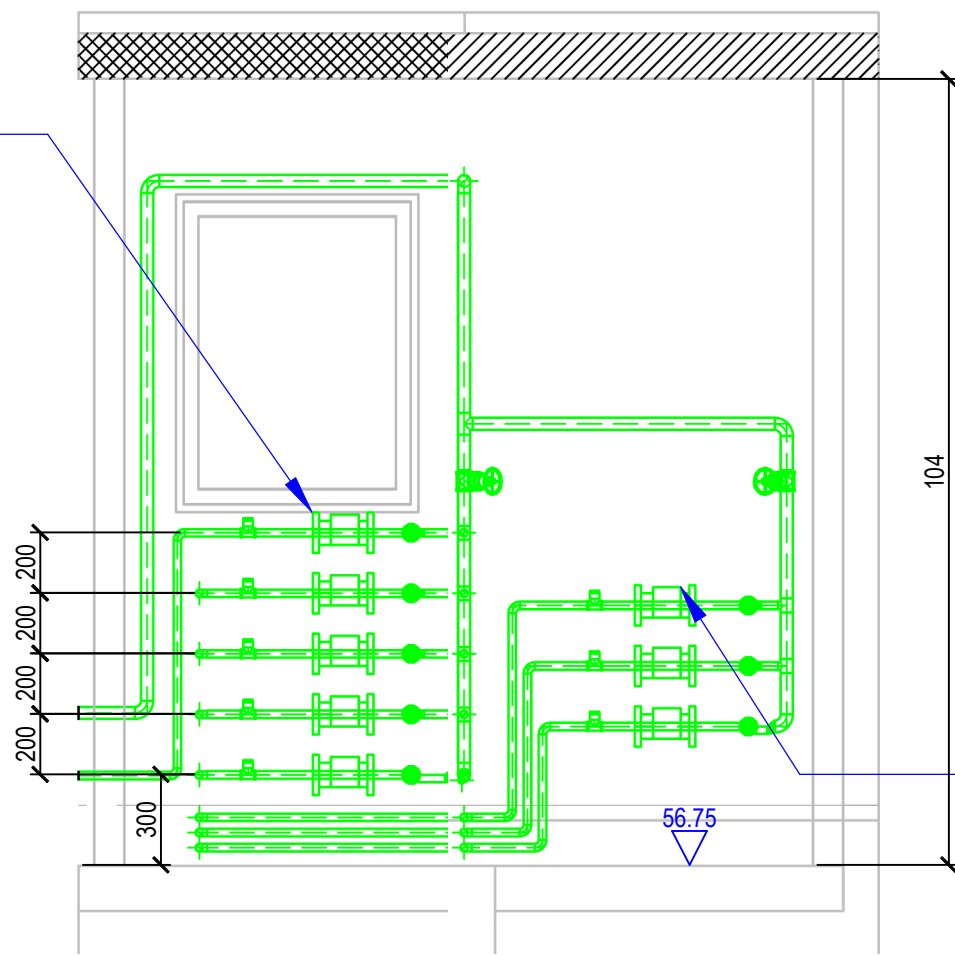
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1:100



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CONSULTANT LOGO		
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WATER METERS (5 NOS.) T TO B
NEW ø25 WATER METER FOR A/C SYSTEM
NEW ø25 WATER METER FOR L5
NEW ø25 WATER METER FOR L6
NEW ø25 WATER METER FOR L7
NEW ø25 WATER METER FOR L8

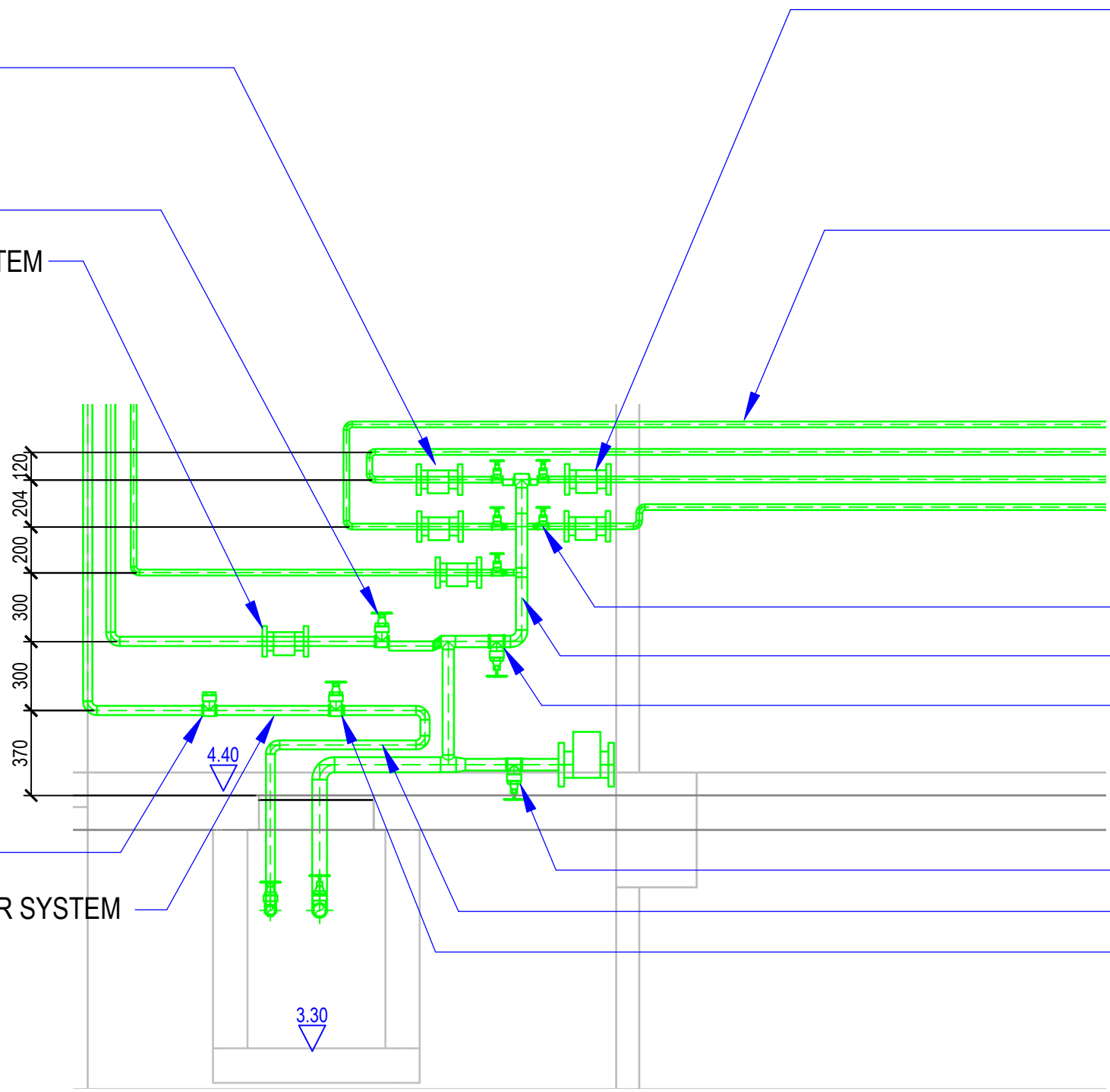


WATER METERS (3 NOS.) T TO B
NEW ø25 WATER METER FOR L9
NEW ø25 WATER METER FOR L10
NEW ø25 WATER METER FOR L11-L15

2 ELEVATION DETAIL OF WATER METER ROOM 2
1:25

WATER METERS (3 NOS.) T TO B
NEW ø25 WATER METER FOR L2
NEW ø25 WATER METER FOR L3
NEW ø25 WATER METER FOR L4

NEW ø40 LOOSE JUMPER TYPE STOPCLOCK
ø40 CHECK METER POSITION FOR POTABLE WATER SYSTEM



WATER METERS (2 NOS.) T TO B
NEW ø25 WATER METER FOR L1
NEW ø25 WATER METER FOR L0

T TO B
NEW ø25 PWP AT L/L TO H/L (3/F)
NEW ø25 PWP AT L/L TO H/L (2/F)
NEW ø25 PWP AT L/L TO H/L (1/F)
NEW ø25 PWP AT L/L TO H/L (G/F)

NEW ø25 LOOSE JUMPER TYPE STOPCLOCK
NEW ø50 PWP AT L/L
NEW ø50 LOOSE JUMPER TYPE STOPCLOCK

NEW ø40 CHECK VALVE
NEW ø40 CHECK METER POSITION FOR FLUSHING WATER SYSTEM

CONNECTED TO AC MWP
NEW ø40 FWP AT L/L
NEW Ø40 GATE VALVE

1 ELEVATION DETAIL OG L00 LOCKABLE WATER METER CABINET
1:25

B.D. REFERENCE

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W.W.O. REFERENCE

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REV

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DATE

NAME AND DESIGNATION

DATE

APPROVED

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CHECKED

CHECKER

dd/mm/yyyy

DESIGNED

DESIGNER

dd/mm/yyyy

DRAWN

BIM MODELLER

dd/mm/yyyy

PROJECT

CIC SAMPLE PROJECT

DRAWING TITLE

ARRANGMENT OF WATER METER CABINET AT LEVEL GF & RF

PROJECT NUMBER

PXXXXX

PURPOSE OF ISSUE

PLANNING SUBMISSION

SCALE


1 : 25 A1

DRAWING NO.

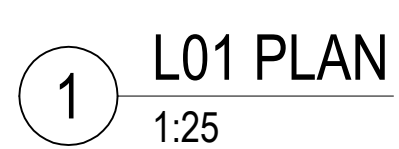
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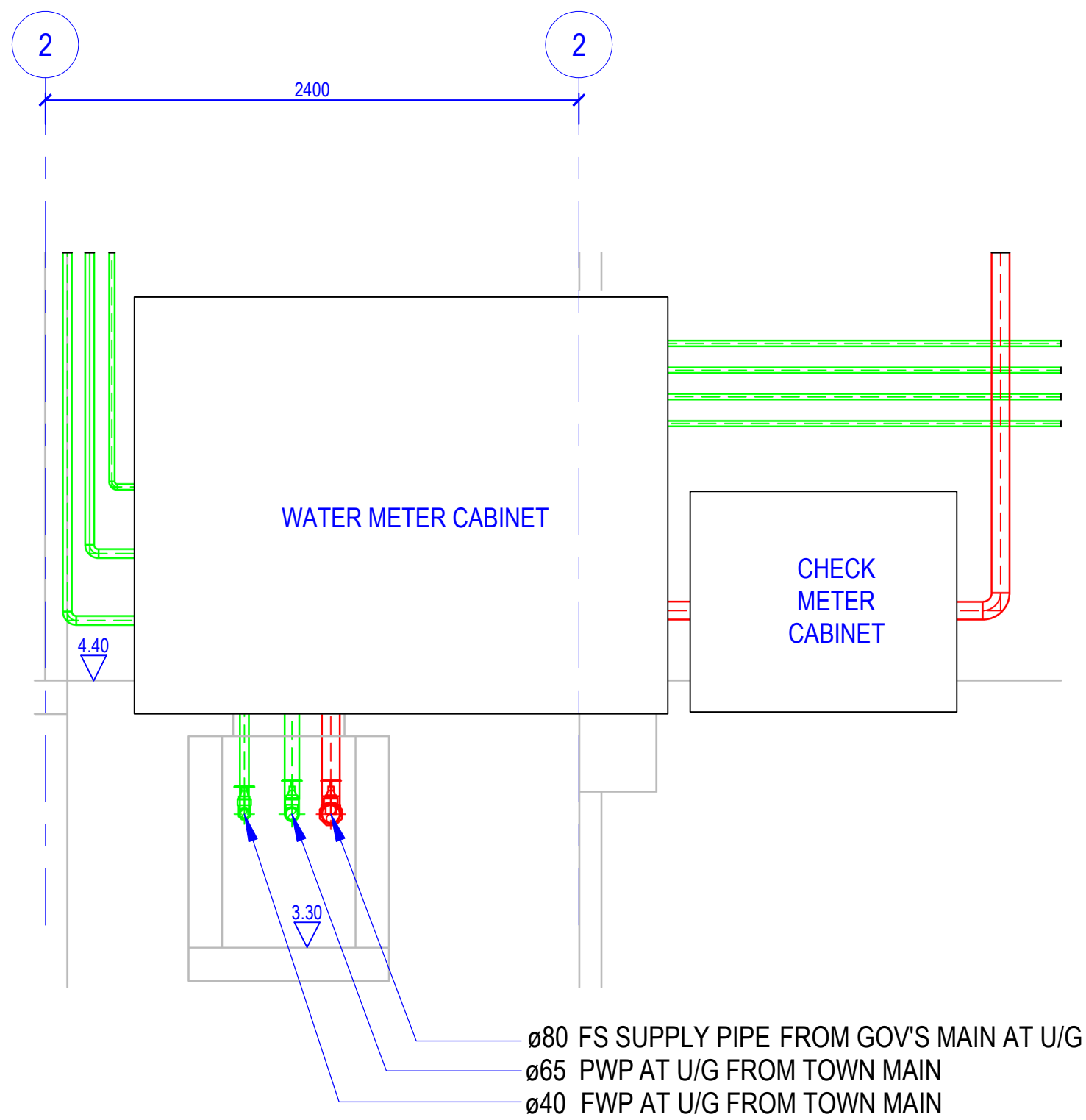
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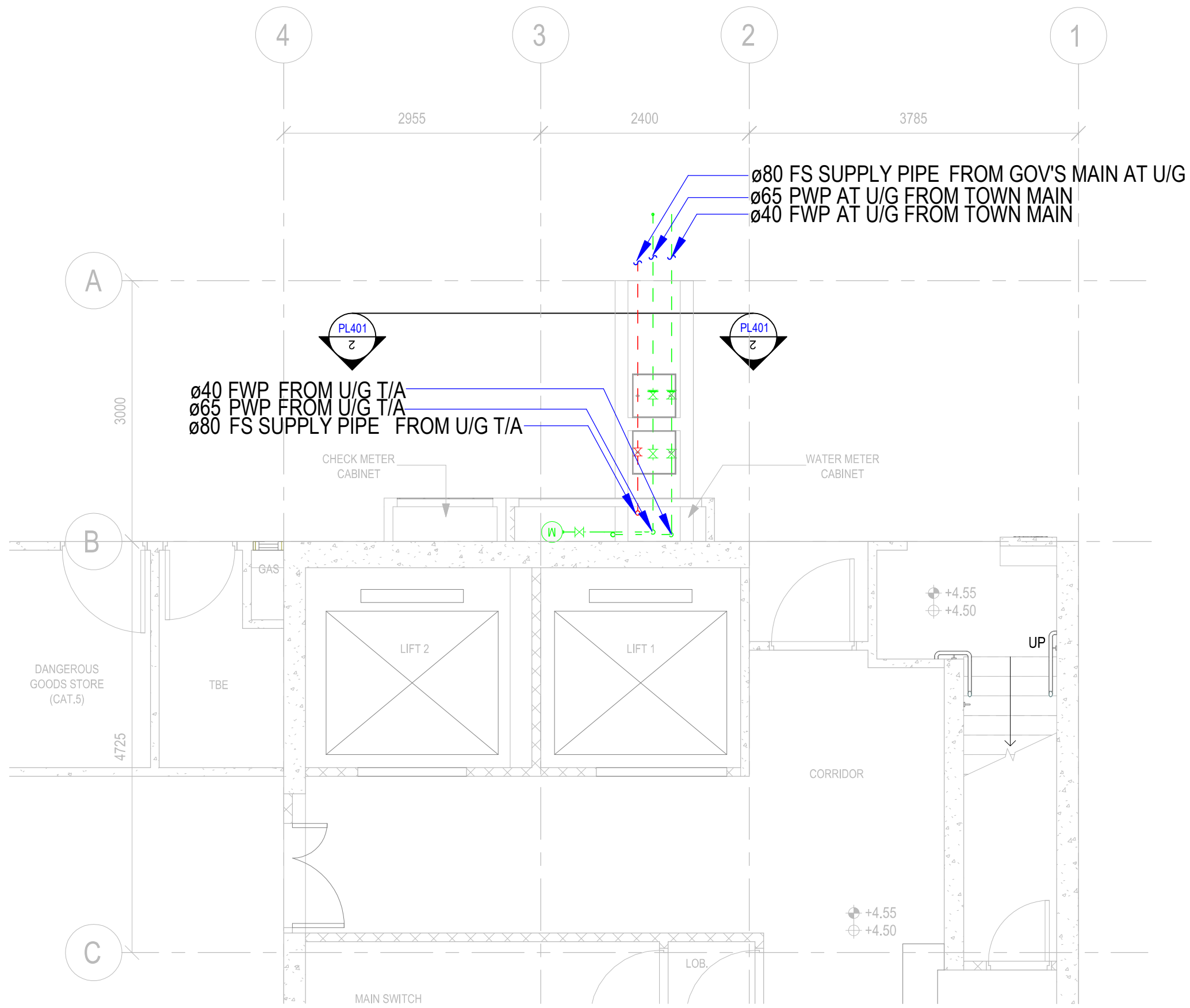
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CLIENT LOGO	 <div>CONSTRUCTION INDUSTRY COUNCIL 建造業議會</div>	
CONSULTANT LOGO	 <div>CONSTRUCTION INDUSTRY COUNCIL 建造業議會</div>	
DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE.		
APPOINTING PARTY / CLIENT REVIEW & ACCEPT		
	T - ACCEPTED (TIME)	
	A - REVIEWED & ACCEPTED	
	B - REVIEWED & ACCEPTED WITH COMMENTS	
	C - DO NOT USE	
DATE		
ID		
LEAD CONSULTANT / LEAD CONTRACTOR REVIEW & AUTHORISATION		
	A - REVIEWED & AUTHORISED	
	B - REVIEWED & AUTHORISED WITH COMMENTS	
	C - DO NOT USE	
DATE		
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0	1ST SUBMISSION	08-03-2021
REV	DESCRIPTION	DATE
	NAME AND DESIGNATION	DATE
APPROVED	APPROVER	dd/mm/yyyy
CHECKED	CHECKER	dd/mm/yyyy
DESIGNED	DESIGNER	dd/mm/yyyy
DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
PLUMBING PUMP SERVICES AT L01		
		
PROJECT NUMBER PXXXXX		
PURPOSE OF ISSUE: PLANNING SUBMISSION		
SCALE As indicated A1		
DRAWING NO.		
PXXXXX / PL401		REV
		0

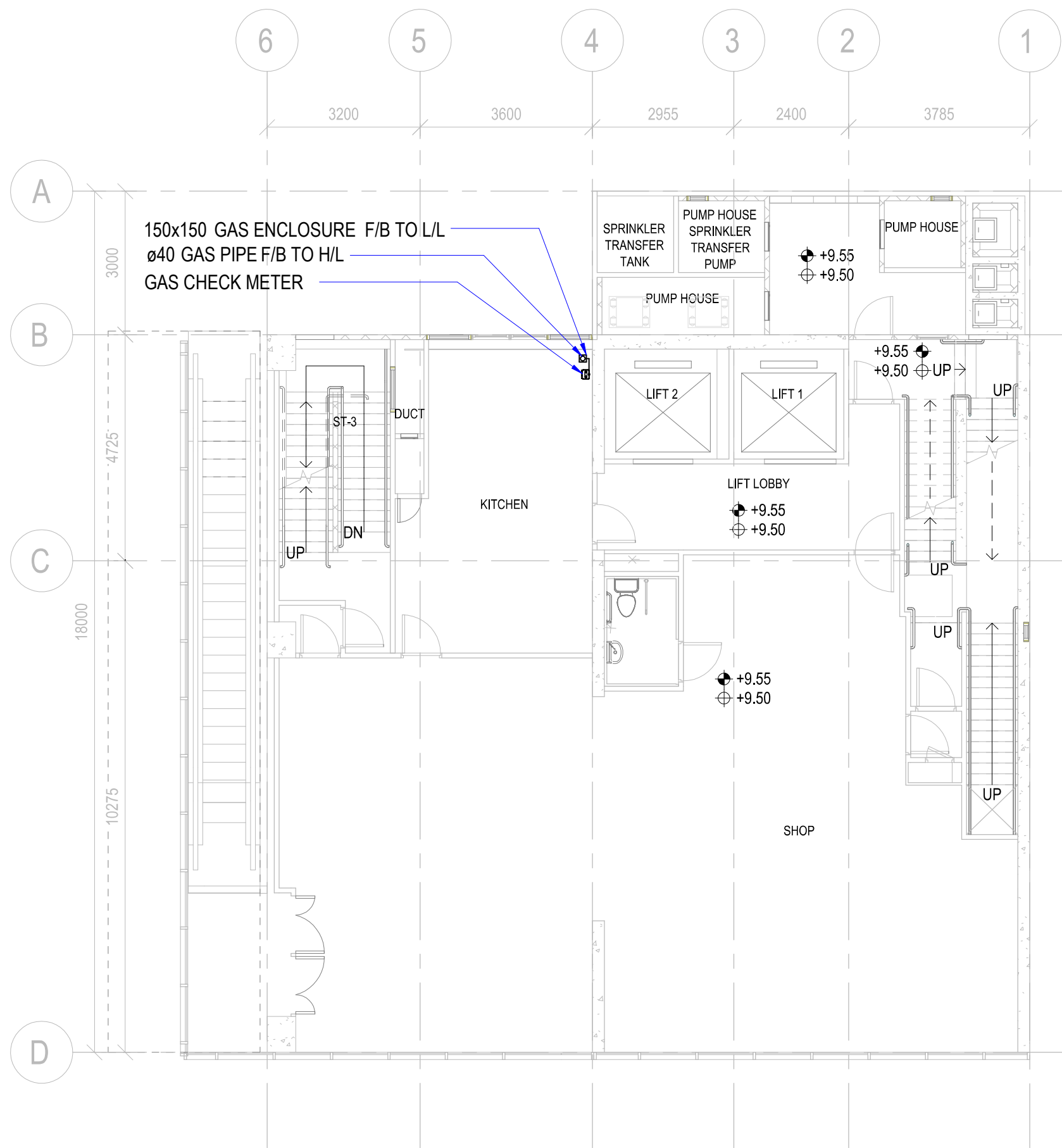


2 SECTION 2-2_ WATER METER CABINET
1:25

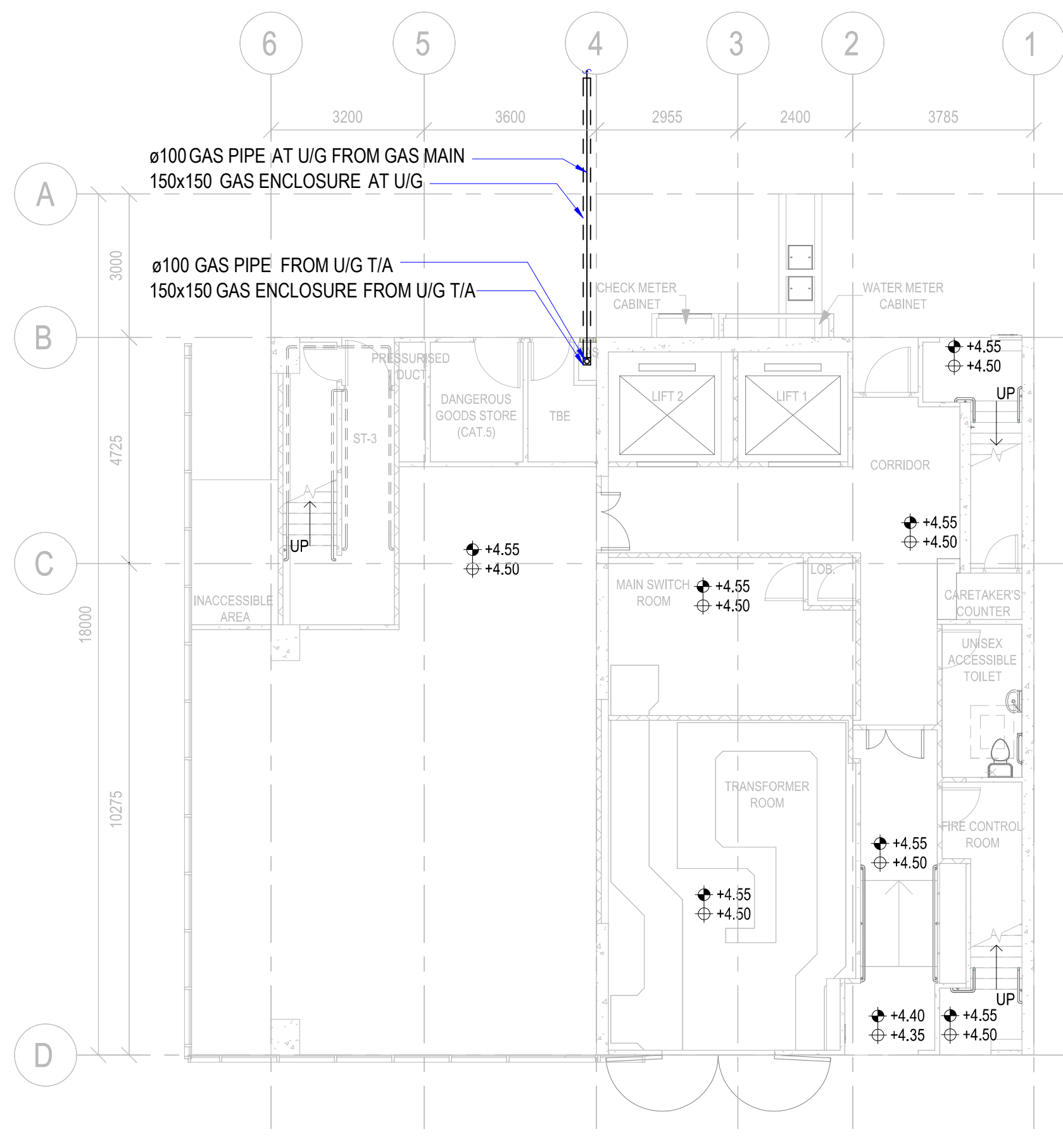


1 GF PLAN
1:50

F.S.D. REFERENCE		
F.S.D. REFERENCE		
W.W.O. REFERENCE		
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0	1ST SUBMISSION	08-03-2021
REV	DESCRIPTION	DATE
	NAME AND DESIGNATION	DATE
APPROVED	APPROVER	dd/mm/yyyy
CHECKED	CHECKER	dd/mm/yyyy
DESIGNED	DESIGNER	dd/mm/yyyy
DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
UNDERGROUND WATER SUPPLY LAYOUT AT LEVEL GF		
		
PROJECT NUMBER	PXXXXX	
PURPOSE OF ISSUE	PLANNING SUBMISSION	
SCALE	As indicated A1	
DRAWING NO.	PXXXXX / PL410	REV
		0



2 L01 PLAN
1:100



1 GF PLAN
1:100

B.D. REFERENCE		
F.S.D. REFERENCE		
W.W.O. REFERENCE		
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CLIENT LOGO		
CONSULTANT LOGO		
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ID		
0 1ST SUBMISSION		
08-03-2021		
REV	DESCRIPTION	DATE
	NAME AND DESIGNATION	DATE
APPROVED	APPROVER	dd/mm/yyyy
CHECKED	CHECKER	dd/mm/yyyy
DESIGNED	DESIGNER	dd/mm/yyyy
DRAWN	BIM MODELLER	dd/mm/yyyy
PROJECT		
CIC SAMPLE PROJECT		
DRAWING TITLE		
TOWN GAS LAYOUT		
PROJECT NUMBER		
P20065		
PURPOSE OF ISSUE		
PLANNING SUBMISSION		
SCALE		
1:100 A1		
DRAWING NO.		
P20065 / TG201		
REV		
0		

