

CONTRACT [REDACTED]

E&M SERVICES FOR [REDACTED]
[REDACTED] PROJECT

TENDER DRAWINGS

TENDER ISSUE

201_

CONFIDENTIAL

Drawing List									
Folder	Sheet Number	Sheet Name	Project Address	Sheet Issue Date	Revision No.	Drawn By	Designed By	Checked By	Approved By
ALL View									
ALL View	A201	LOWER GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A202	GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A204	2nd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A205	3rd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A206	4th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A207	5th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A208	6th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A209	7th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A210	8th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A211	9th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A212	10th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A213	11th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A214	12th - 14th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A215	15th - 17th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A216	18th - 22nd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A217	ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A218	MID ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A219	UPPER ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A203	1st FLOOR LAYOUT		13/11/15		Author	Designer	Checker	Approver
ALL View	A301	SECTION 8		13/11/15		Author	Designer	Checker	Approver
Cover Page									
Cover Page	C101	Cover Page		10/30/15		Author	Designer	Checker	Approver
DR									
DR	D201	LOWER GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
DR	D202	GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
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DR	D204	2nd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
DR	D205	3rd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
DR	D206	4th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
DR	D207	5th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
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DR	D211	9th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
DR	D212	10th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
DR	D213	11th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
DR	D214	12th - 14th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
DR	D215	15th - 17th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
DR	D216	18th - 22nd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
DR	D217	ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
DR	D218	MID ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
DR	D219	UPPER ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
DR	D001	LEGEND AND ABBREVIATION		11/04/15		Author	Designer	Checker	Approver
Drawing list									
Drawing list	L001	Drawing List		13/11/15		Author	Designer	Checker	Approver
ELE									
ELE	E201	LOWER GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ELE	E202	GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ELE	E203	1st FLOOR LAYOUT		13/11/15		Author	Designer	Checker	Approver
ELE	E204	2nd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
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ELE	E217	ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
ELE	E218	MID ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
ELE	E219	UPPER ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
ELE	E001	LEGEND AND ABBREVIATION		11/04/15		Author	Designer	Checker	Approver
F.S.									
F.S.	F201	LOWER GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F202	GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F203	1st FLOOR LAYOUT		13/11/15		Author	Designer	Checker	Approver
F.S.	F204	2nd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F205	3rd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F206	4th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F207	5th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F208	6th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F209	7th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver

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F.S.	F210	8th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F211	9th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F212	10th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F213	11th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F214	12th - 14th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F215	15th - 17th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F216	18th - 22nd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F217	ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F218	MID ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F219	UPPER ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F103	SCHEMATIC LINE DIAGRAM FOR AUTOMATIC FIRE ALARM SYSTEM		13/11/15		Author	Designer	Checker	Approver
MVC									
MVC	M201	LOWER GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
MVC	M202	GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
MVC	M203	1st FLOOR LAYOUT		13/11/15		Author	Designer	Checker	Approver
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MVC	M219	UPPER ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
MVC	M001	LEGEND AND ABBREVIATION		13/11/15		Author	Designer	Checker	Approver
MVC	M103	Duct Schedule		13/11/15		Author	Designer	Checker	Approver
PL									
PL	P201	LOWER GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
PL	P202	GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
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PL	P219	UPPER ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
PL	P001	LEGEND AND ABBREVIATION		11/04/15		Author	Designer	Checker	Approver
TKG									

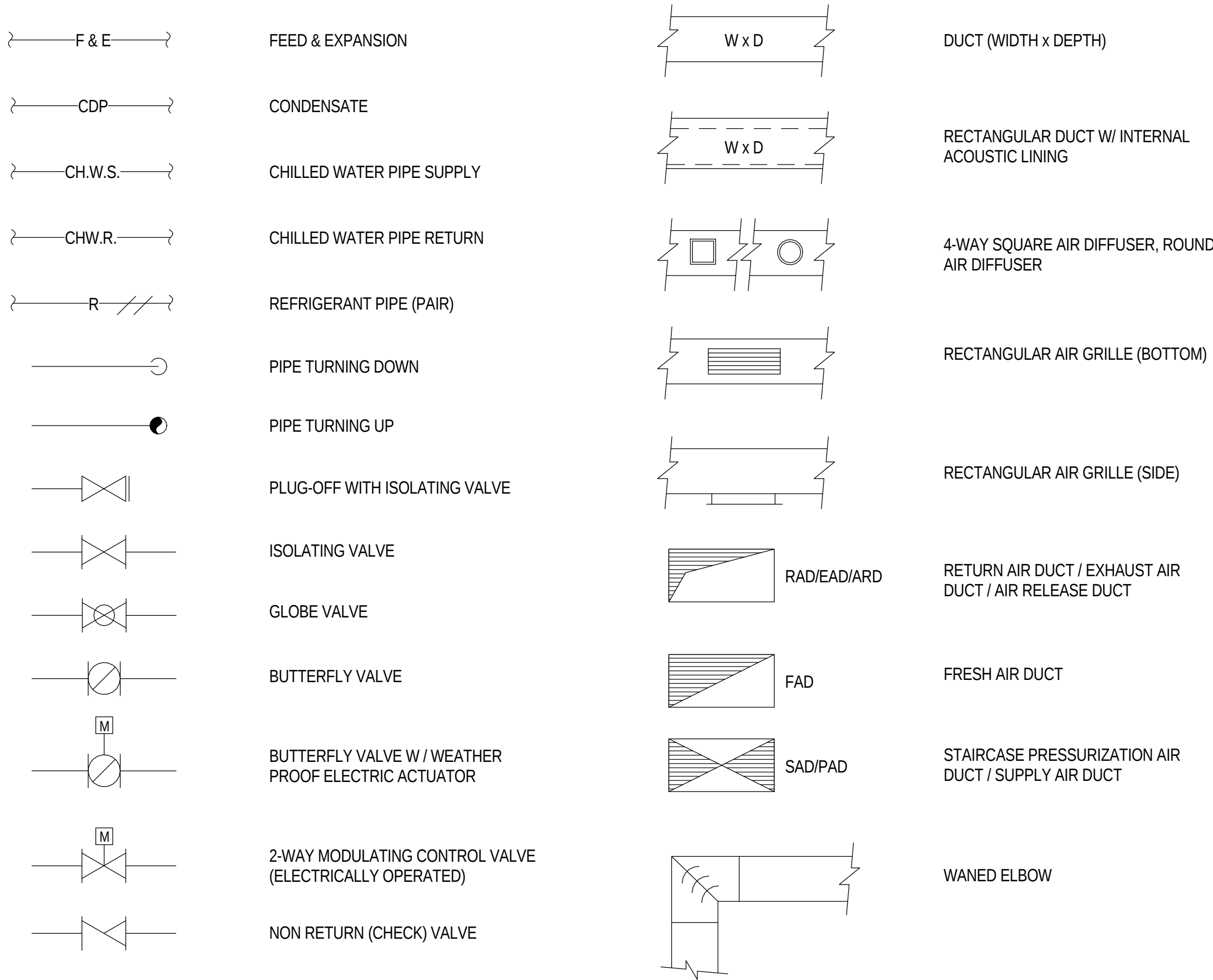
KEY PLAN					DRAWN	Author		Drawing List			
					DESIGNED	Designer					
					CHECKED	Checker					
					APPROVED	Approver					
					DATE	13/11/15					
					DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © DOWNWARD CONSTRUCTION INFORMATION DEVELOPMENT LIMITED (A.C.I.) 2014 COPYRIGHT IN RESPECT OF THIS DRAWING DOCUMENT IS OWNED BY THE A.C.I. NO REPRODUCTION OF THE DRAWING DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE A.C.I.		ORIGINATOR		SCALE	FIGURE NO.	REV.
							BIM REF.				
	NO.	DESCRIPTION	DATE	BY	P14035_MEP_ L001						

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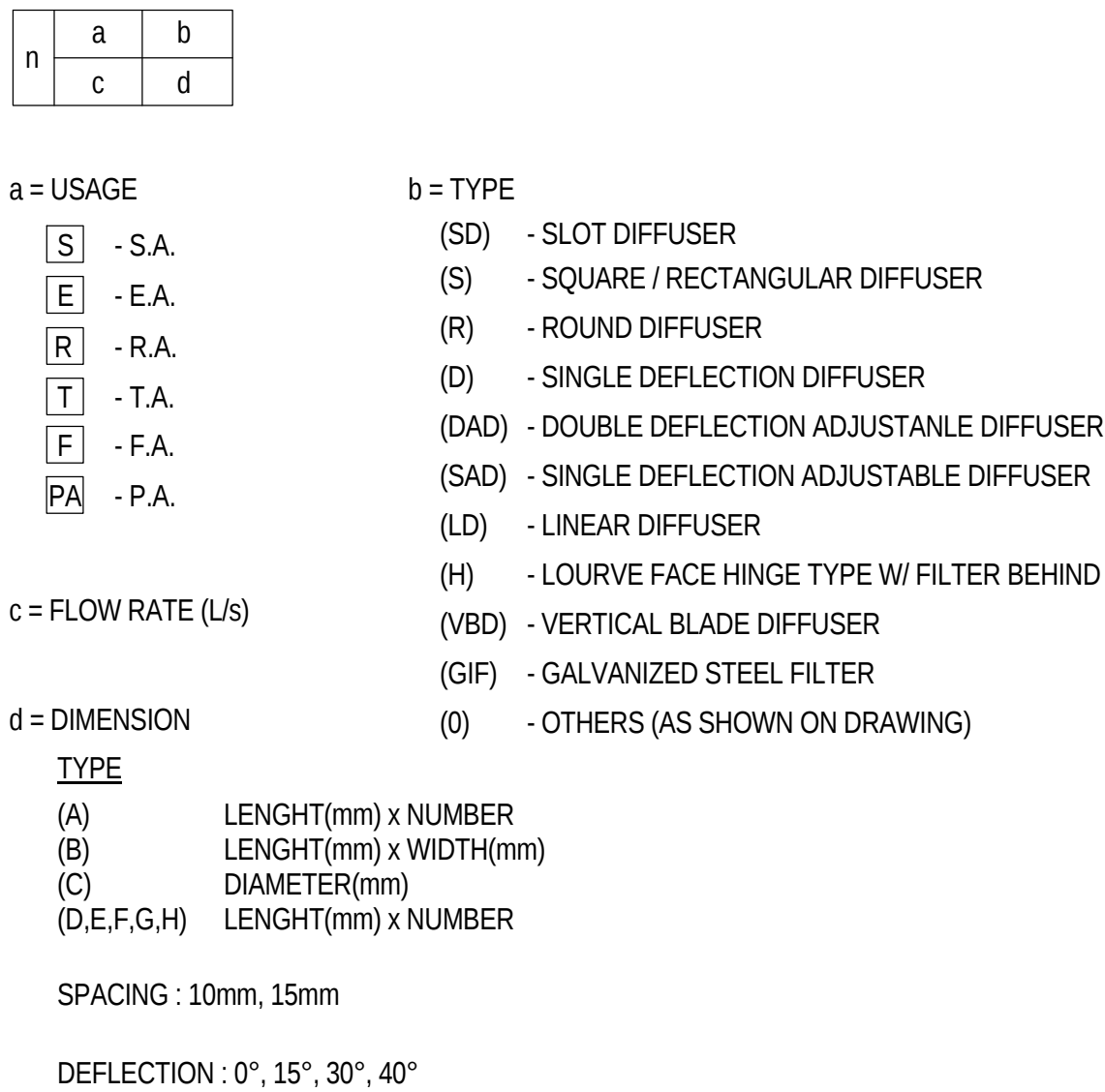
PRINTED BY:

PLOT DRW:
MODELNAME:
FILENAME:

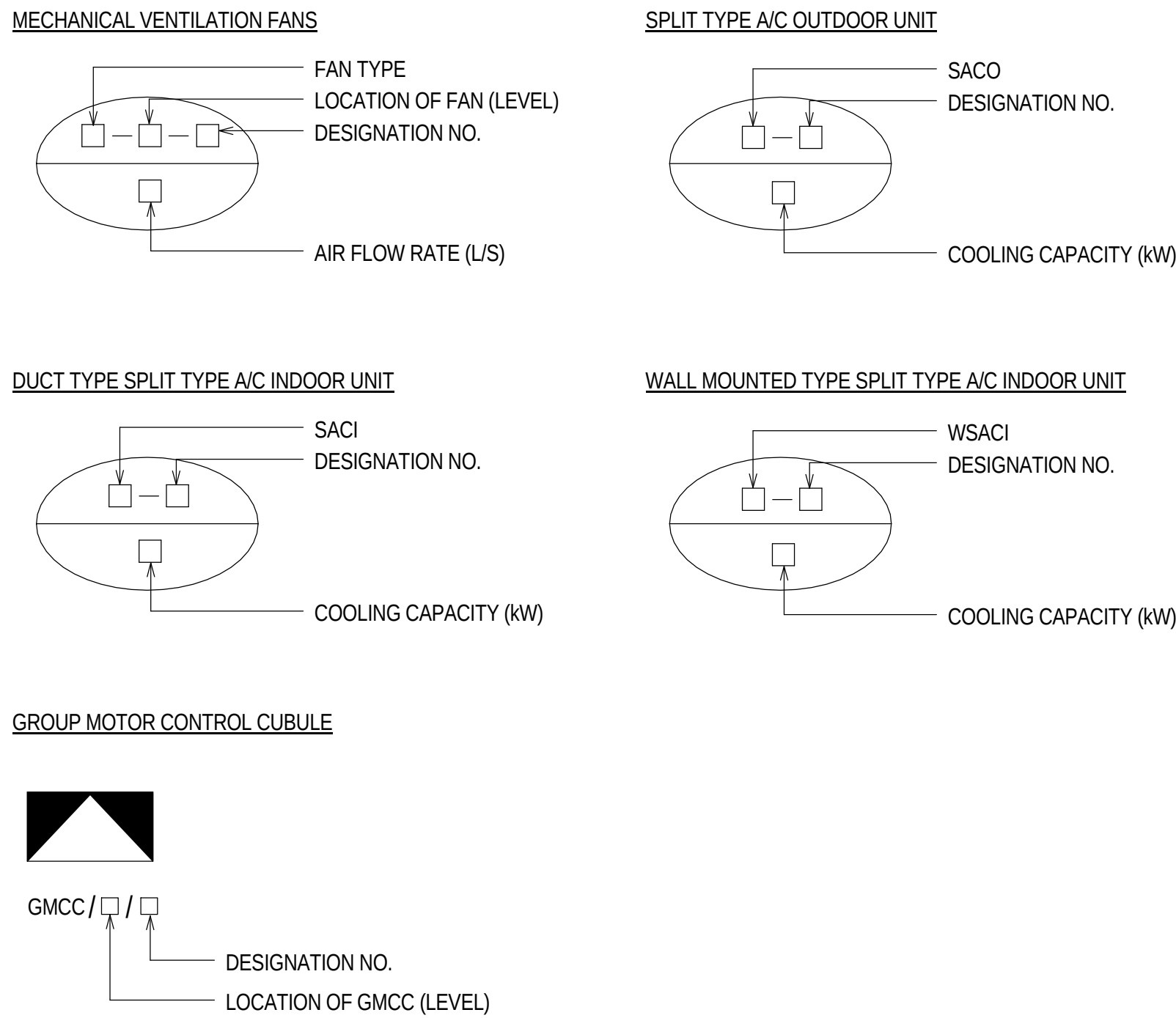
GENERAL LEGEND



AIR DIFFUSER DESIGNATION



EQUIPMENT DESIGNATION

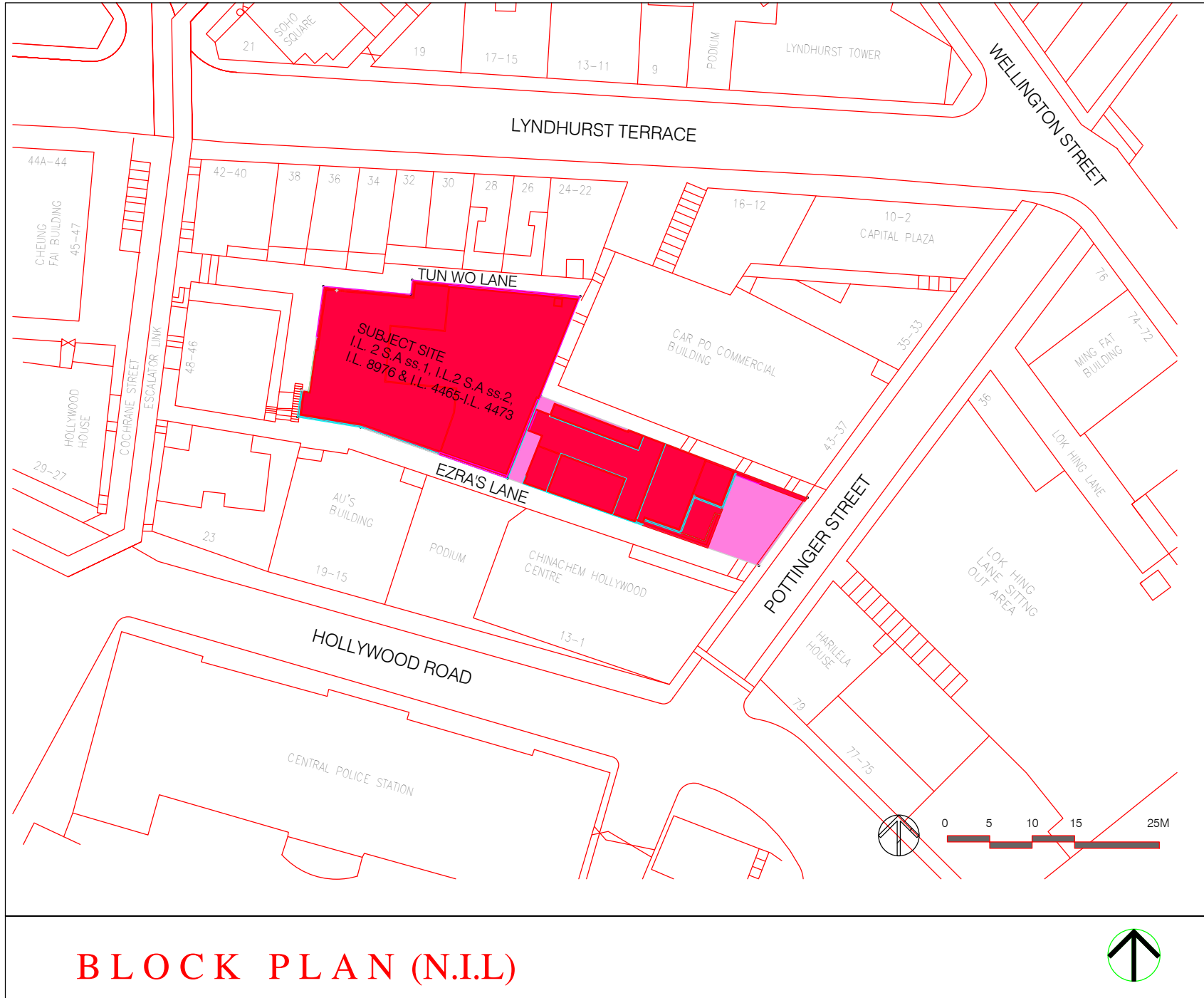


ABBREVIATION

MVAC	MECHANICAL VENTILATION & AIR CONDITIONING
N/C	NORMALLY CLOSED
N/O	NORMALLY OPENED
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW
L/L	LOW LEVEL
H/L	HIGH LEVEL
W/	WITH
W/O	WITHOUT
CW	COMPLETE WITH
F.L.	FLOOR LEVEL
DIA.	DIAMETER
N.T.S.	NOT TO SCALE
CH.W.S.	CHILLED WATER SUPPLY PIPE
CH.W.R.	CHILLED WATER RETURN PIPE
C.D.W.S.	CONDENSING WATER SUPPLY
C.D.P.	CONDENSATE DRAIN PIPE
FAD	FRESH AIR DUCT
SAD	SUPPLY AIR DUCT
EAD	EXHAUST AIR DUCT
RAD	RETURN AIR DUCT
PAD	PRIMARY AIR DUCT
MAD	MAKE-UP AIR DUCT
SED	SMOKE EXTRACTION DUCT
TAD	TRANSFER AIR DUCT
KED	KITCHEN EXHAUST AIR DUCT
KMD	KITCHEN MAKE-UP AIR DUCT
SPD	STAIRCASE PRESSURIZATION DUCT
ARD	AIR RELEASE DUCT
PRD	PRESSURE RELIEF DUCT
SP	STAIRCASE PRESSURIZATION
SPL	STAIRCASE PRESSURIZATION AIR INTAKE LOUVRE
SPF	STAIRCASE PRESSURIZATION FAN
LP	LOBBY PRESSURIZATION
LPD	LOBBY PRESSURIZATION DUCT
LPF	LOBBY PRESSURIZATION FAN
F.A.	FRESH AIR
S.A.	SUPPLY AIR
E.A.	EXHAUST AIR
R.A.	RETURN AIR
S.P.	STAIRCASE PRESSURIZATION
A.R.	AIR RELEASE
SAG	SUPPLY AIR GRILLE
TAG	TRANSFER AIR GRILLE
EAG	EXHAUST AIR GRILLE

GENERAL NOTES

- | | | | |
|-----|---|-----|---|
| 1. | ALL FIRE DAMPERS SHOWN ARE FOR REFERENCE ONLY. EXACT LOCATION SHALL REFER TO THE LATEST HKFSD REQUIREMENT. | 14. | ALL FIRE DAMPERS SHOWN ARE FOR REFERENCE ONLY. EXACT LOCATION SHALL REFER TO THE LATEST HKFSD REQUIREMENT. |
| 2. | THE MATERIAL AND CONSTRUCTION DETAILS OF FIRE DAMPERS / FIRE RATED ENCLOSURE SHALL BE COMPLIED TO THE LATEST HKFSD REGULATION AND SUBJECT TO ARCHITECT / CONSULTING ENGINEER'S APPROVAL. | 15. | THE MATERIAL AND CONSTRUCTION DETAILS OF FIRE DAMPERS / FIRE RATED ENCLOSURE SHALL BE COMPLIED TO THE LATEST HKFSD REGULATION AND SUBJECT TO ARCHITECT / CONSULTING ENGINEER'S APPROVAL. |
| 3. | VENTILATION / AIR CONDITIONING (V/AC) CONTROL SYSTEM, METHOD "C", SHALL BE PROVIDED AS PER THE LATEST HKFSD STANDARD. | 16. | VENTILATION / AIR CONDITIONING (V/AC) CONTROL SYSTEM, METHOD "C", SHALL BE PROVIDED AS PER THE LATEST HKFSD STANDARD. |
| 4. | ACCESS PANELS SHALL BE PROVIDED FOR ALL FIRE DAMPERS WITH DIMENSIONS OF 450mmX450mm IN GENERAL AND OF APPROPRIATE SIZE FOR DUCTS SMALLER THAN 450mm IN WIDTH. | 17. | ACCESS PANELS SHALL BE PROVIDED FOR ALL FIRE DAMPERS WITH DIMENSIONS OF 450mmX450mm IN GENERAL AND OF APPROPRIATE SIZE FOR DUCTS SMALLER THAN 450mm IN WIDTH. |
| 5. | ALL FRESH AIR INTAKES AND EXHAUST AIR OUTLETS TO EXTERNAL LOUVRES NOT LESS THAN 45% FREE AREA SHALL BE PROVIDED BY OTHER AND WHICH MVAC SUB-CONTRACTOR SHALL PROVIDE WITH HOT DIPPED GALVANIZED STEEL INSECTS SCREEN (APPROX 10mm). | 18. | ALL FRESH AIR INTAKES AND EXHAUST AIR OUTLETS TO EXTERNAL LOUVRES NOT LESS THAN 45% FREE AREA SHALL BE PROVIDED BY OTHER AND WHICH MVAC SUB-CONTRACTOR SHALL PROVIDE WITH HOT DIPPED GALVANIZED STEEL INSECTS SCREEN (APPROX 10mm). |
| 6. | ALL WEATHERPROOF LOUVRES AS SHOWN SHALL BE PROVIDED BY MAIN CONTRACTOR. PART OF LOUVRE NOT USED FOR MVAC SHALL BE BLANKED OFF WITH G.I. STEEL BY MVAC SUB-CONTRACTOR. ADVANCE INFORMATION OF SIZES SHALL BE SUBMITTED BY MVAC SUB-CONTRACTOR WHICH SHALL BE APPROVED BY ARCHITECT/CONSULTING ENGINEERS. | 19. | ALL WEATHERPROOF LOUVRES AS SHOWN SHALL BE PROVIDED BY MAIN CONTRACTOR. PART OF LOUVRE NOT USED FOR MVAC SHALL BE BLANKED OFF WITH G.I. STEEL BY MVAC SUB-CONTRACTOR. ADVANCE INFORMATION OF SIZES SHALL BE SUBMITTED BY MVAC SUB-CONTRACTOR WHICH SHALL BE APPROVED BY ARCHITECT/CONSULTING ENGINEERS. |
| 7. | 100mm HIGH UPSTAND CURB SHALL BE CONSTRUCTED BY MAIN CONTRACTOR AROUND ALL SLAB OPENINGS FOR PIPES AND/OR DUCTS. | 20. | 100mm HIGH UPSTAND CURB SHALL BE CONSTRUCTED BY MAIN CONTRACTOR AROUND ALL SLAB OPENINGS FOR PIPES AND/OR DUCTS. |
| 8. | CONDENSATE DRAINS SHALL BE LED TO NEAREST STORM WATER SYSTEM, EXACT LOCATIONS SHALL BE CHECKED ON SITE. | 21. | CONDENSATE DRAINS SHALL BE LED TO NEAREST STORM WATER SYSTEM, EXACT LOCATIONS SHALL BE CHECKED ON SITE. |
| 9. | CONDENSATE DRAINS IN PLANT ROOM SHALL BE LED TO NEAREST STORM WATER SYSTEM, EXACT LOCATIONS SHALL BE CHECKED ON SITE. | 22. | CONDENSATE DRAINS IN PLANT ROOM SHALL BE LED TO NEAREST STORM WATER SYSTEM, EXACT LOCATIONS SHALL BE CHECKED ON SITE. |
| 10. | ALL CONDENSATE DRAINS DIRECTLY CONNECTED TO THE STORMWATER DRAIN PIPE SHALL HAVE ANTI-SYPHONAGE TRAPS COMPLETE WITH INSULATION BY MVAC SUB-CONTRACTOR. CONDENSATE DRAIN PIPE ROUTING AND FINAL CONNECTION SHALL BE DETERMINED ON SITE. | 23. | ALL CONDENSATE DRAINS DIRECTLY CONNECTED TO THE STORMWATER DRAIN PIPE SHALL HAVE ANTI-SYPHONAGE TRAPS COMPLETE WITH INSULATION BY MVAC SUB-CONTRACTOR. CONDENSATE DRAIN PIPE ROUTING AND FINAL CONNECTION SHALL BE DETERMINED ON SITE. |
| 11. | CONCRETE PLINTH (BY MAIN CONTRACTOR) SHALL BE PROVIDED FOR ALL FLOOR MOUNTED EQUIPMENTS. | 24. | CONCRETE PLINTH (BY MAIN CONTRACTOR) SHALL BE PROVIDED FOR ALL FLOOR MOUNTED EQUIPMENTS. |
| 12. | ALL FLOOR MOUNTED FANS SHALL BE ISOLATED WITH MINIMUM OF 25mm DEFLECTION SPRINGS WITH A 6mm MINIMUM THICKNESS NEOPRENE PAD OR WASHER, OR AS REQUIRED IN SPECIFICATION. | 25. | ALL FLOOR MOUNTED FANS SHALL BE ISOLATED WITH MINIMUM OF 25mm DEFLECTION SPRINGS WITH A 6mm MINIMUM THICKNESS NEOPRENE PAD OR WASHER, OR AS REQUIRED IN SPECIFICATION. |
| 13. | ALL PROPELLER FANS SHALL HAVE BELLMOUNT ENTRY. | 26. | ALL PROPELLER FANS SHALL HAVE BELLMOUNT ENTRY. |



KEY PLAN

DRAWN	Author
DESIGNED	Designer
CHECKED	Checker
APPROVED	Approver
DATE	13/11/15

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ORIGINATOR	
BIM REF.	

TITLE	MVC_ LEGEND AND ABBREVIATION	
SCALE	FIGURE NO.	P14035_MEP_MVC_M001
REV.		

Duct Schedule												
Family	Type	System Type	System Name	Length	Size	Top Elevation	Bottom Elevation	Flow	Friction	Velocity	Velocity Pressure	Count
Rectangular Duct	M-EAD	Undefined		1383	25x25	3583	2200	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 14	10	150x150	2875	2865	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	2
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 3	11	150x150	1892	1742	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 37	11	150x150	2505	2494	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 41	11	150x150	2505	2494	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 9	19	150x150	3266	3116	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 40	19	150x150	3266	3116	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 32	21	150x150	2515	2494	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 12	36	150x150	2530	2494	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	3
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 37	36	150x150	2530	2494	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	4
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 41	36	150x150	2530	2494	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	3
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 25	46	150x150	2540	2494	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 32	46	150x150	2540	2494	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	5
Rectangular Duct	M-TAD	Transfer Air	Mechanical Transfer Air 4	50	150x150	3116	2966	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 40	61	150x150	2555	2494	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	5
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 11	61	150x150	2555	2494	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 4	64	150x150	3261	3111	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 3	67	150x150	1712	1644	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 40	67	150x150	2735	2585	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Transfer Air	Mechanical Transfer Air 4	71	150x150	2936	2865	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 14	72	150x150	2938	2865	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 14	80	150x150	2945	2865	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	2
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 1	101	150x150	2733	2632	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	4
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 38	101	150x150	2733	2632	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	4
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 19	101	150x150	2595	2494	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 56	101	150x150	2595	2494	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 58	101	150x150	2595	2494	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 73	101	150x150	2595	2494	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-FAD	Exhaust Air	Mechanical Exhaust Air 11	123	150x150	3963	3813	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-EAD	Supply Air	Mechanical Supply Air 53	161	150x150	2750	2589	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 8	193	150x150	2738	2544	46.0 L/s	0.44 Pa/m	2.0 m/s	2.5 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 8	201	150x150	2745	2544	55.0 L/s	0.61 Pa/m	2.4 m/s	3.6 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 4	201	150x150	2801	2600	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 9	208	150x150	3266	3105	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 40	208	150x150	3266	3105	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 40	240	150x150	2735	2585	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 11	249	150x150	3963	3813	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 1	287	150x150	2913	2763	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 38	287	150x150	2913	2763	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Exhaust Air	Mechanical Exhaust Air 1	288	150x150	2733	2444	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Exhaust Air	Mechanical Exhaust Air 38	288	150x150	2733	2444	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 12	289	150x150	2755	2605	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 32	289	150x150	2765	2615	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 37	289	150x150	2755	2605	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 41	289	150x150	2755	2605	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 4	290	150x150	3261	3111	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-TAD	Exhaust Air	Mechanical Exhaust Air 1	327	150x150	2913	2763	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Exhaust Air	Mechanical Exhaust Air 38	327	150x150	2913	2763	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 40	348	150x150	2735	2585	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 9	389	150x150	3255	3105	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 40	389	150x150	3255	3105	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 12	440	150x150	2755	2605	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 32	440	150x150	2765	2615	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 37	440	150x150	2755	2605	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 41	440	150x150	2755	2605	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 40	449	150x150	2735	2585	508.0 L/s	30.89 Pa/m	22.6 m/s	306.5 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 40	450	150x150	2735	2585	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 1	451	150x150	2913	2763	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 38	451	150x150	2913	2763	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 1	453	150x150	2913	2763	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 38	453	150x150	2913	2763	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 1	465	150x150	2913	2763	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 38	465	150x150	2913	2763	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 40	469	150x150	2735	2585	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 40	554	150x150	2735	2585	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Exhaust Air	Mechanical Exhaust Air 1	558	150x150	2913	2763	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Exhaust Air	Mechanical Exhaust Air 38	558	150x150	2913	2763	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 3	574	150x150	1892	1742	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 19	603	150x150	2775	2625	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 56	603	150x150	2775	2625	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 58	603	150x150	2775	2625	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 73	603	150x150	2775	2625	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 9	630	150x150	3075	2444	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 40	630	150x150	3075	2444	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 12	639	150x150	2755	2605	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1

Duct Schedule												
Family	Type	System Type	System Name	Length	Size	Top Elevation	Bottom Elevation	Flow	Friction	Velocity	Velocity Pressure	Count
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 25	639	150x150	2765	2615	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 32	639	150x150	2765	2615	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	3
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 37	639	150x150	2755	2605	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	2
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 41	639	150x150	2755	2605	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 11	659	150x150	2735	2585	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 14	660	150x150	3125	2975	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 12	709	150x150	2755	2605	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 32	709	150x150	2765	2615	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 37	709	150x150	2755	2605	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 41	709	150x150	2755	2605	127.0 L/s	2.62 Pa/m	5.6 m/s	19.2 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 11	729	150x150	3963	3813	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 8	801	150x150	2918	2768	46.0 L/s	0.44 Pa/m	2.0 m/s	2.5 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 11	1049	150x150	3963	3813	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 8	1083	150x150	2925	2775	55.0 L/s	0.61 Pa/m	2.4 m/s	3.6 Pa	1
Rectangular Duct	M-FAD	Exhaust Air	Mechanical Exhaust Air 11	1193	150x150	3738	2544	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-EAD	Supply Air	Mechanical Supply Air 53	1195	150x150	2750	2600	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 8	1203	150x150	2918	2768	46.0 L/s	0.44 Pa/m	2.0 m/s	2.5 Pa	1
Rectangular Duct	M-TAD	Return Air	Mechanical Return Air 4	1357	150x150	2981	2831	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 3	3941	150x150	1892	1742	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-EAD	Exhaust Air	Mechanical Exhaust Air 11	5335	150x150	3963	3813	0.0 L/s	0.00 Pa/m	0.0 m/s	0.0 Pa	1
Rectangular Duct	M-TAD	Transfer Air	Mechanical Transfer Air 3	146	150x200	3011	2865	127.0 L/s	1.34 Pa/m	4.2 m/s	10.8 Pa	1
Rectangular Duct	M-EAD	Transfer Air	Mechanical Transfer Air 3	146	150x250	3011	2865	127.0 L/s	0.81 Pa/m	3.4 m/s		

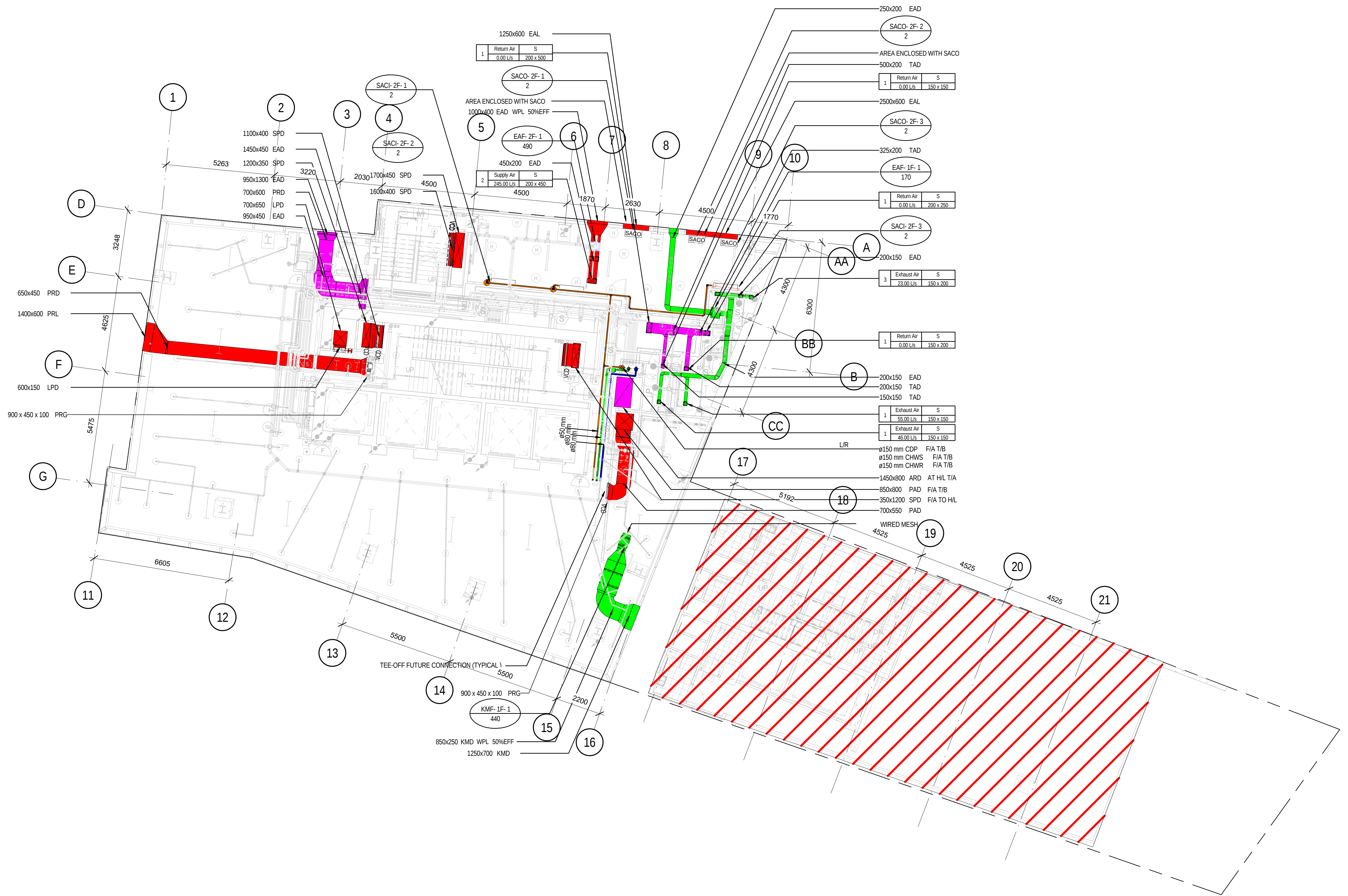
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1st Floor PLAN

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DESCRIPTION

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TITLE	MVC_1st FLOOR LAYOUT
SCALE	FIGURE NO.
P14035_MEP_MVC_M203	REV.

FROM TOP TP BELOW
ø50 F.S. SUPPLY PIPE AT H/L T/A FOR THE FH/HR SYSTEM OF HIGH BLOCK
ø80 F.S. SUPPLY PIPE AT H/L T/A FOR THE SPR. SYSTEM OF HIGH BLOCK
ø80 F.S. SUPPLY PIPE AT H/L T/A FOR THE SPR. SYSTEM OF LOW BLOCK
ø80 F.S. SUPPLY PIPE AT H/L T/A FOR THE FH/HR SYSTEM OF LOW BLOCK
ø50 F.S. SUPPLY PIPE AT H/L T/A FOR THE FH/HR SYSTEM OF HIGH BLOCK

FROM TOP TO BELOW
ø150 SPR. INLET PIPE F/B T/A
ø150 SPR. PUMP DISCHARGE PIPE (LOW) F/A T/B
ø150 SPR. PUMP DISCHARGE PIPE (MID) F/A T/B
ø150 SPR. PUMP DISCHARGE PIPE (HIGH) F/A T/B
ø100 F.H. PIPE F/A TO M/L CONNECTED TO ø150 F.S. INLET PIPE AT H/L
ø100 F.H. PIPE AT H/L T/B & T/A CONNECTED TO ø150 F.S. INLET PIPE AT H/L
ø40 H.R. PIPE F/A TO M/L
ø100 F.H. PIPE F/A TO M/L CONNECTED TO ø150 F.S. INLET PIPE AT H/L

FROM TOP TO BELOW
ø50 F.S. SUPPLY PIPE F/B & TURN AT H/L FOR THE FH SYSTEM OF HIGH BLOCK
ø80 F.S. SUPPLY PIPE F/B & TURN AT H/L FOR THE SPR. SYSTEM OF LOW BLOCK
ø80 F.S. SUPPLY PIPE F/B & TURN AT H/L FOR THE SPR. SYSTEM OF HIGH BLOCK
ø50 F.S. SUPPLY PIPE F/B & TURN AT H/L FOR THE FH SYSTEM OF HIGH BLOCK
ø150 F.S. INLET PIPE F/B & TURN AT H/L
ø150 SPR. PIPE (MID) F/B T/A
ø150 SPR. PIPE (HIGH) F/B T/A
ø40 H.R. PIPE F/A TO M/L
FROM TOP TO BELOW
ø50 SPR. DRAIN PIPE F/A T/B
ø150 SPR. PIPE (LOW) F/B T/A

1st Floor PLAN

1 : 100

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FS_1st FLOOR LAYOUT

SCALE

FIGURE NO.

P14035_MEP_FS_F203

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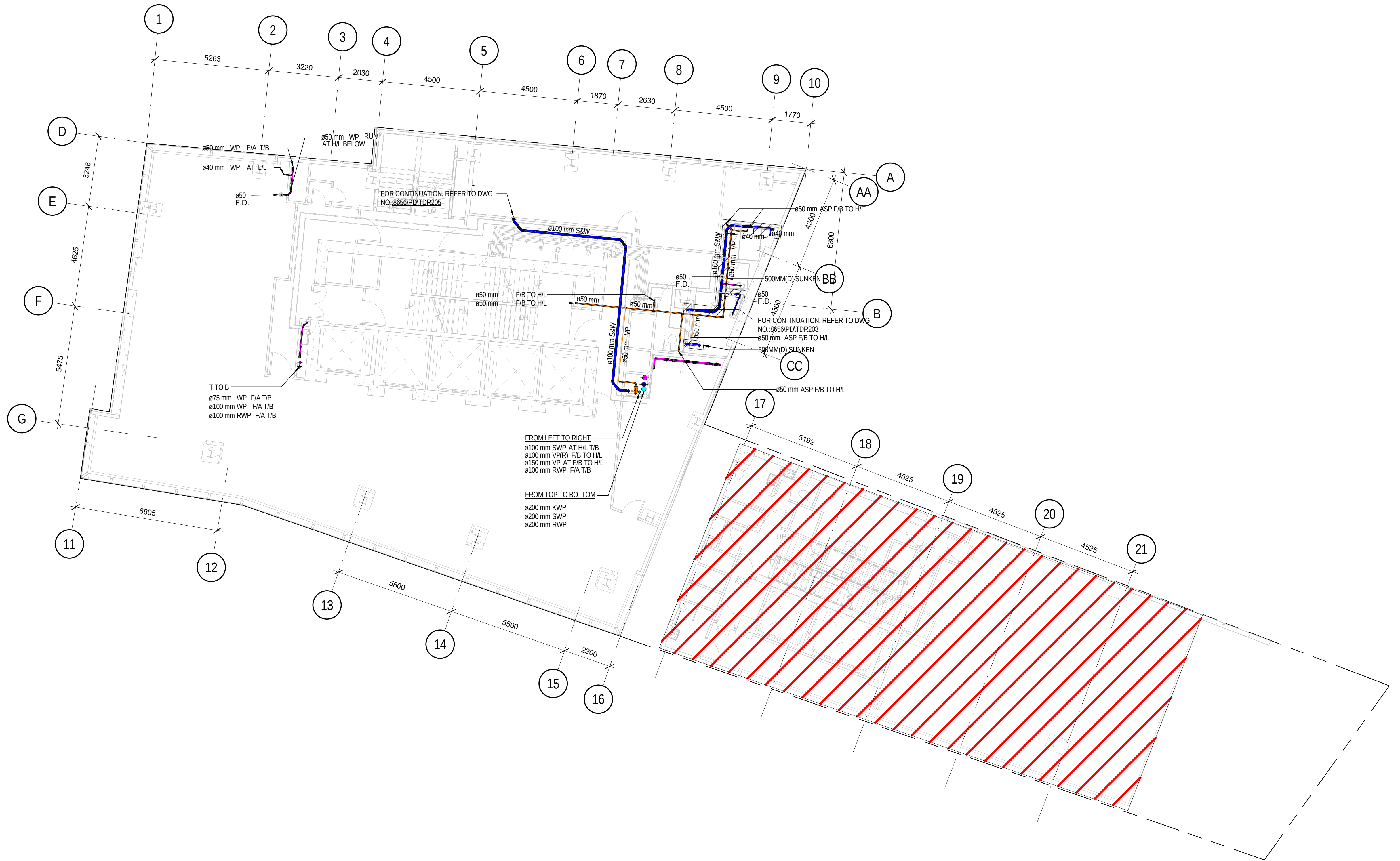
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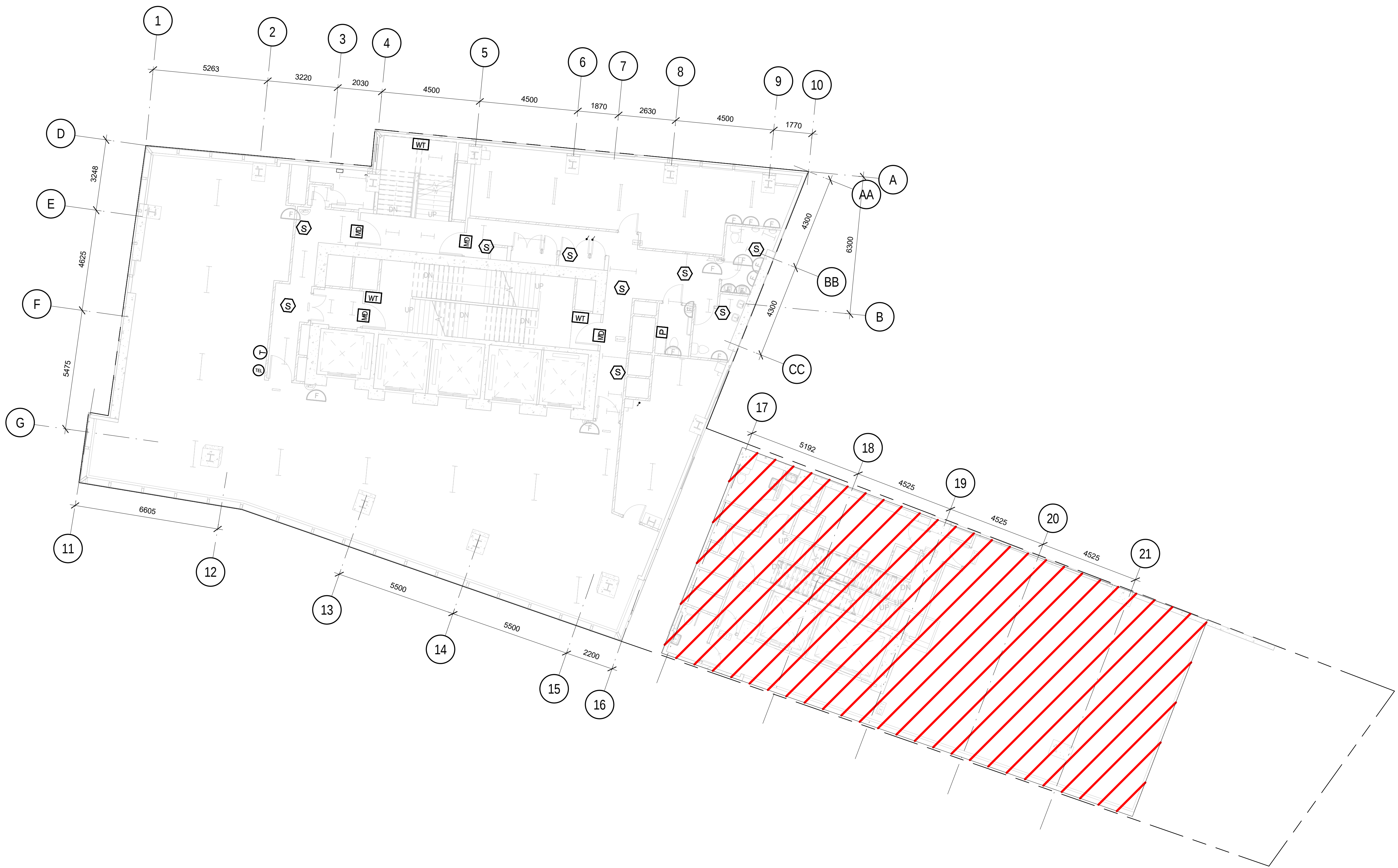
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1st FLOOR LAYOUT

1 : 100



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1 1st FLOOR LAYOUT
1 : 100

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ELE_1st FLOOR LAYOUT

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FIGURE NO.

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1st FLOOR LAYOUT

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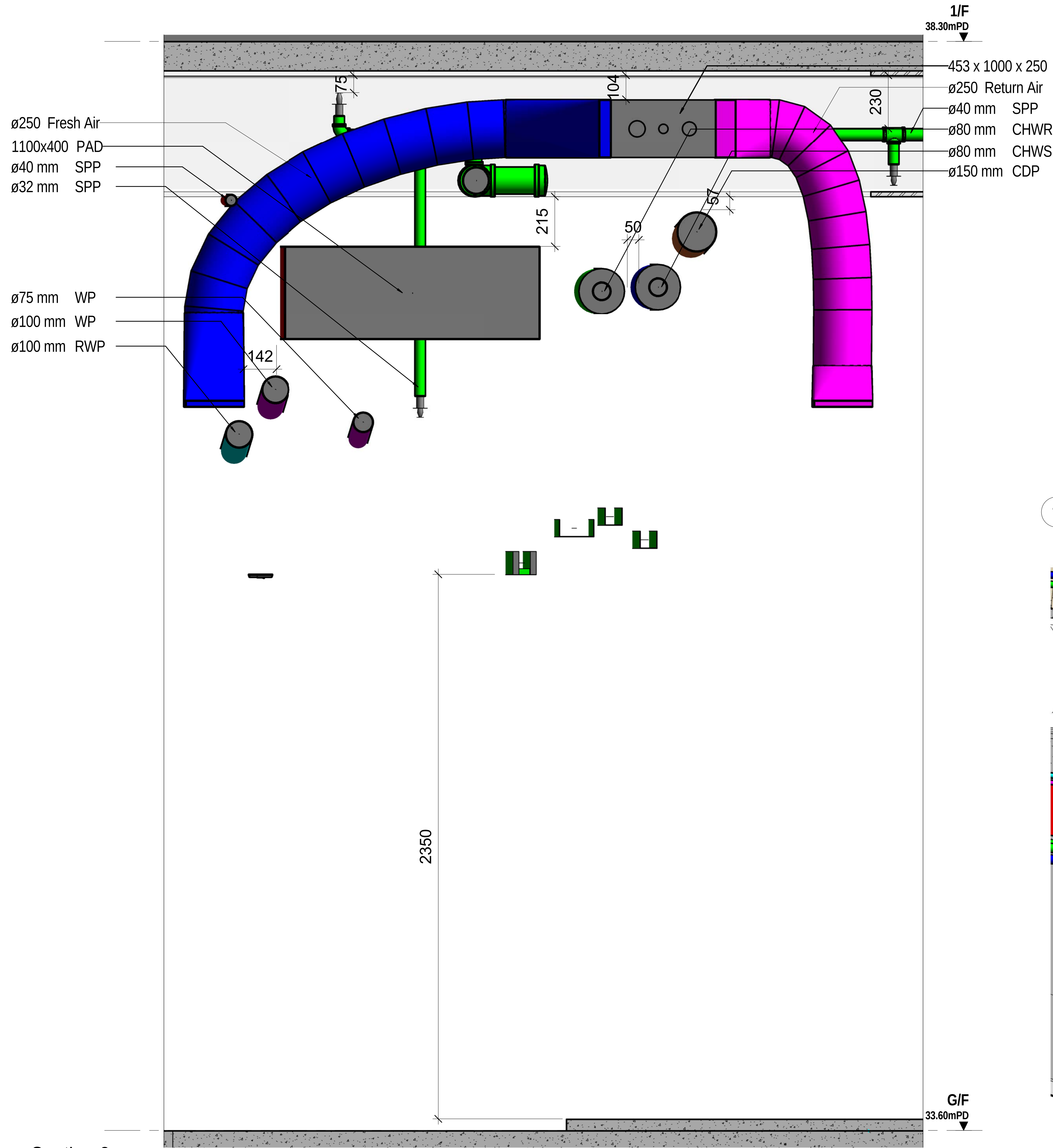
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SCALE

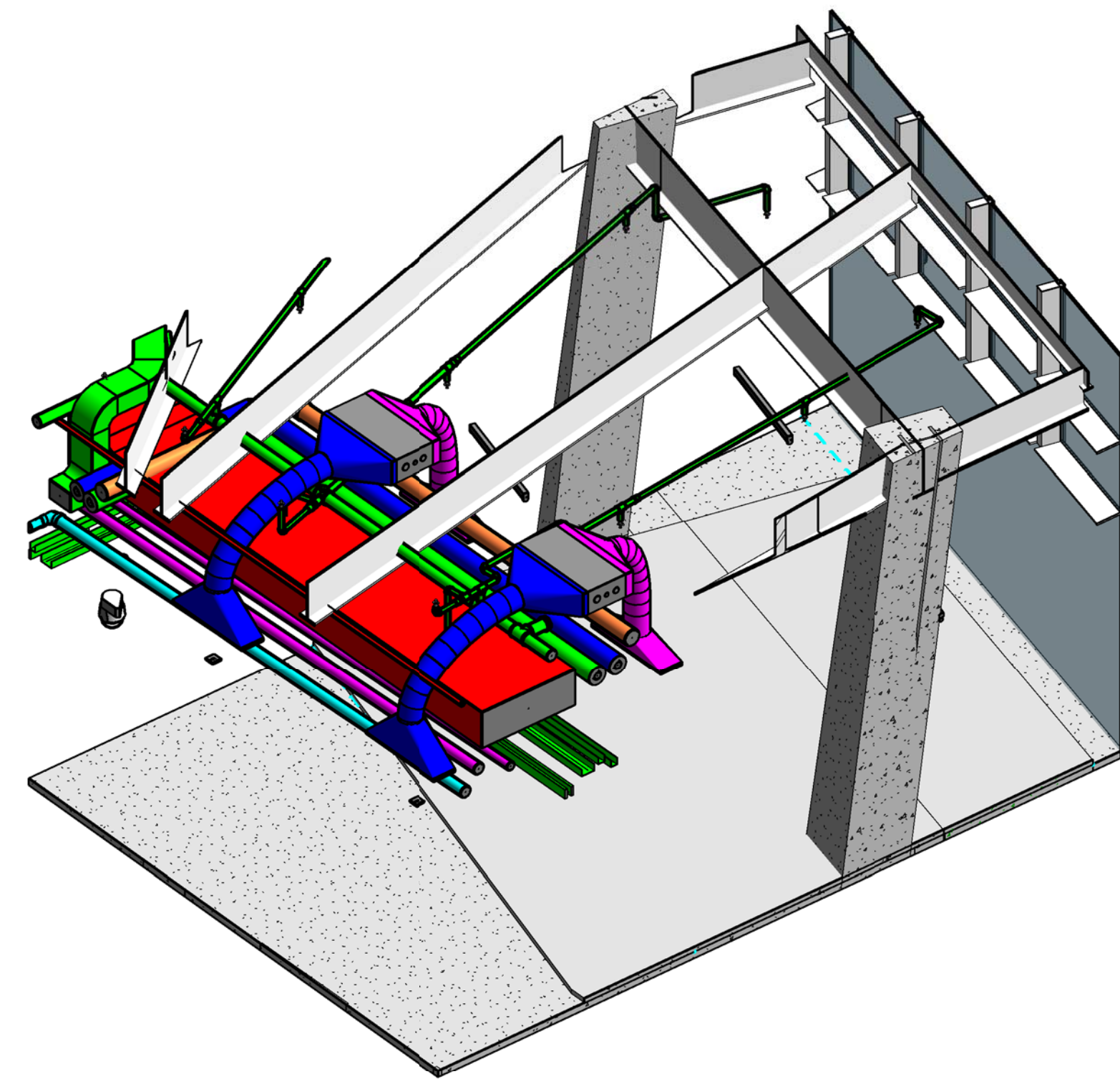
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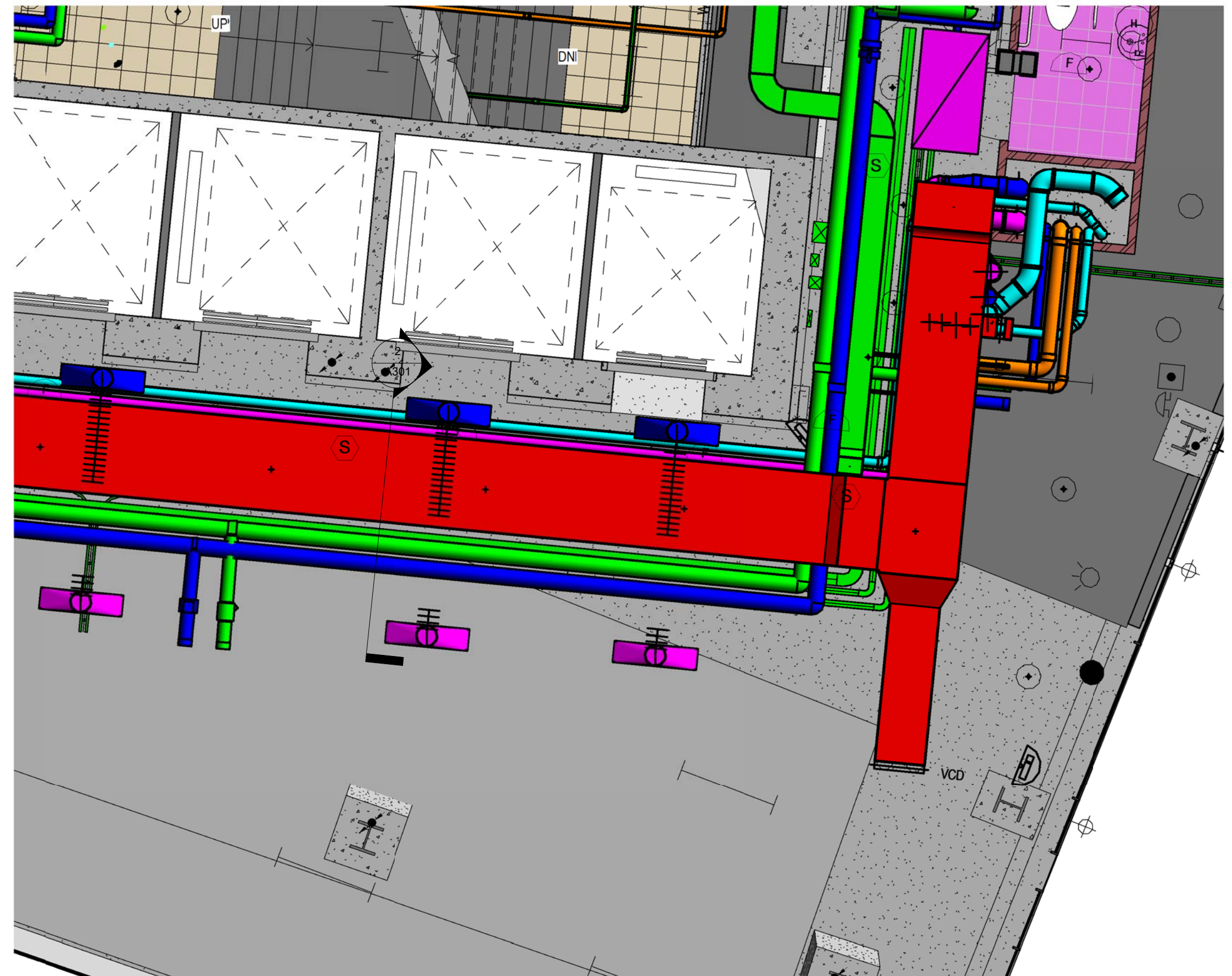
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2 Section 8
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1 3D SECTION BOX



3 SECTION LOCATION PLAN
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SCALE	FIGURE NO.	P14035_MEP_A301	REV.