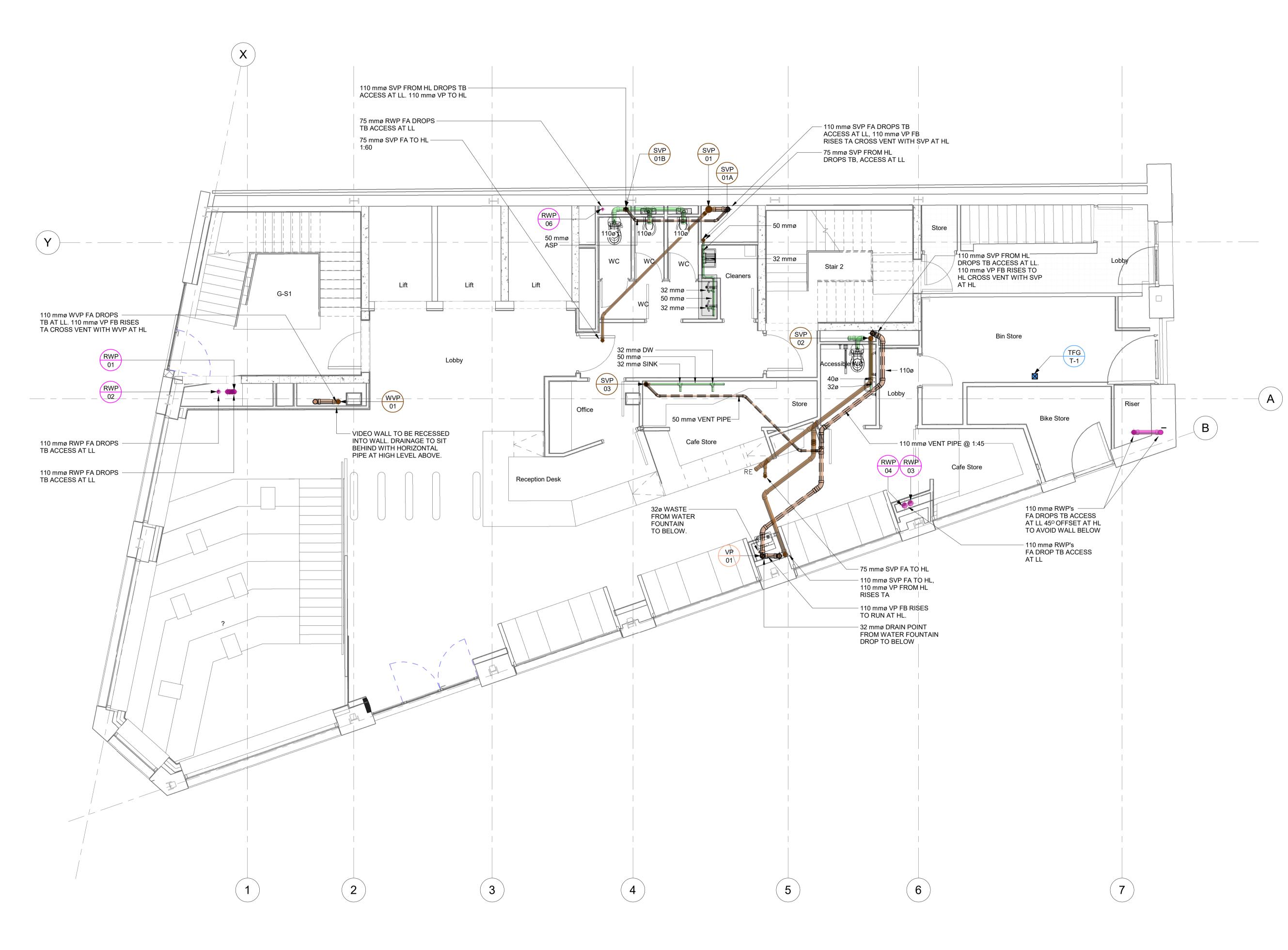
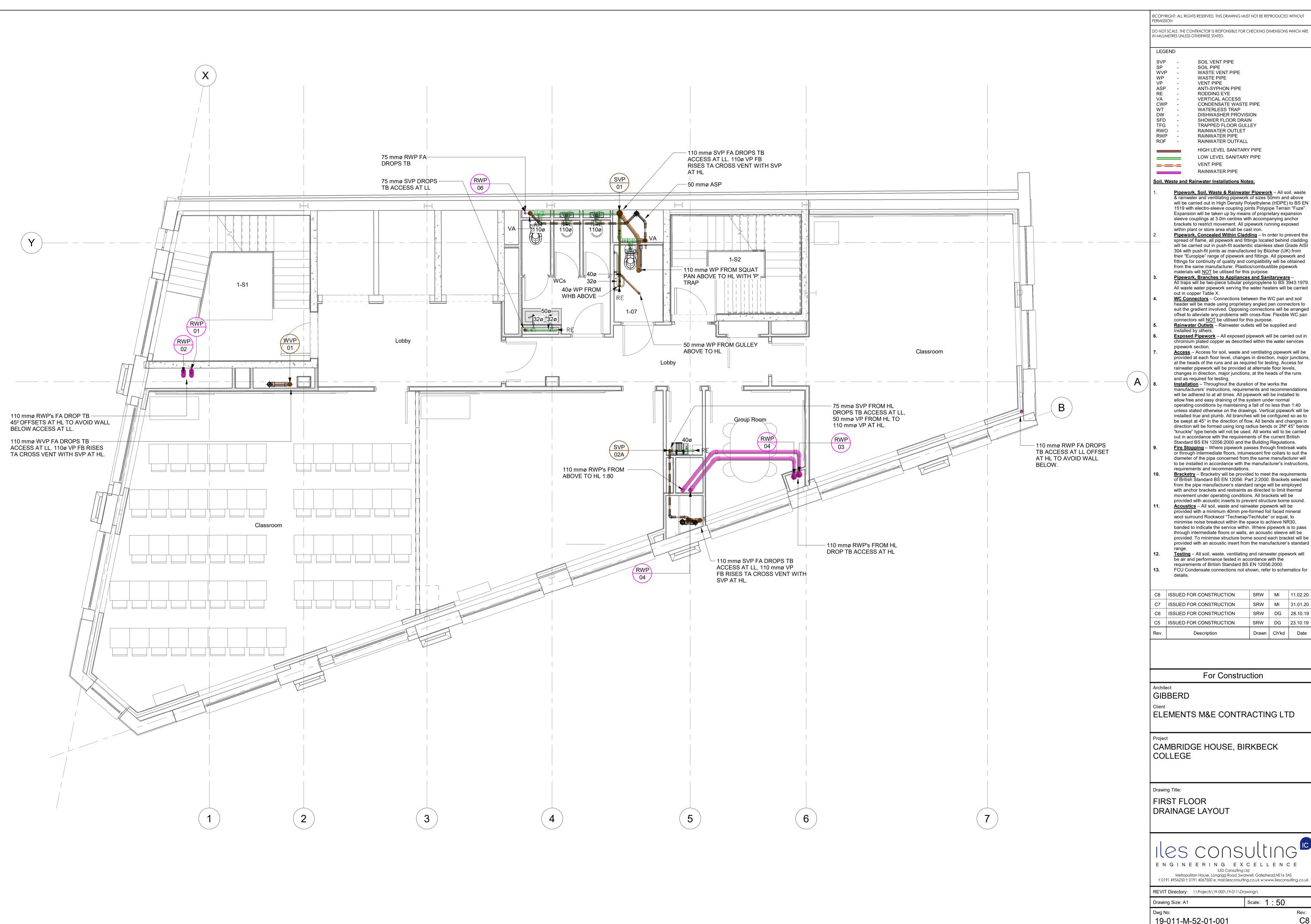


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DO NOT SCALE. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING DIMENSIONS WHICH ARE IN MILLIMETRES UNLESS OTHERWISE STATED.						
LEG						
SVP SP	- SOIL VENT PIPE - SOIL PIPE					
WVF WP	P - WASTE VENT PIPE - WASTE PIPE					
VP ASP	 VENT PIPE ANTI-SYPHON PIPE 					
RE VA	 RODDING EYE VERTICAL ACCESS 					
CWF WT		PIPE				
DW SFD	- DISHWASHER PROVIS					
TFG	- TRAPPED FLOOR GUL					
RWF	P - RAINWATER PIPE					
ROF	- RAINWATER OUTFALL					
	LOW LEVEL SANITARY					
	VENT PIPE					
Soil, V	Naste and Rainwater Installations Not	es:				
			r k – All so	oil waste		
	 Pipework, Soil, Waste & Rainwater Pipework – All soil, waste & rainwater and ventilating pipework of sizes 50mm and above will be carried out in High Density Polyethylene (HDPE) to BS EN 1519 with electro-sleeve coupling joints Polypipe Terrain "Fuze". Expansion will be taken up by means of proprietary expansion sleeve couplings at 3.0m centres with accompanying anchor 					
2.	brackets to restrict movement. All p within plant or store area shall be ca <u>Pipework, Concealed Within Clad</u> spread of flame, all pipework and fit	ist iron. ding – In d	order to p	revent the		
	will be carried out in push-fit austen 304 with push-fit joints as manufact their "Europipe" range of pipework a fittings for continuity of quality and c	ured by Blund fittings and fittings	ücher (UK . All pipev ty will be o	() from vork and obtained		
3.	from the same manufacturer. Plasti materials will <u>NOT</u> be utilised for thi <u>Pipework, Branches to Appliance</u> All traps will be two-piece tubular po	s purpose. <mark>s and Sar</mark>	itarywar	<u>e</u> –		
4.	All waste water pipework serving the out in copper Table X. <u>WC Connectors</u> – Connections bet	water heaven the N	aters will l NC pan a	be carried and soil		
F	header will be made using proprieta suit the gradient involved. Opposing offset to alleviate any problems with connectors will <u>NOT</u> be utilised for Painwater Outlate – Painwater out	connection cross-flow his purpos	ons will be v. Flexible e.	e arranged e WC pan		
5. 6	Rainwater Outlets – Rainwater out installed by others.					
6.	Exposed Pipework – All exposed p chromium plated copper as describe					
7.	pipework section. <u>Access</u> – Access for soil, waste any provided at each floor level, change at the heads of the runs and as requiration rainwater pipework will be provided	s in direct uired for te at alternat	ion, majoi sting. Acc e floor lev	r junctions, cess for ⁄els,		
8.	changes in direction, major junction and as required for testing. <u>Installation</u> – Throughout the durati manufacturers' instructions, require	s, at the he	eads of th works the	ie runs		
	will be adhered to at all times. All pi allow free and easy draining of the s operating conditions by maintaining unless stated otherwise on the draw	bework wil system und a fall of no	l be instal der norma o less tha	lled to al n 1:40		
	installed true and plumb. All branch be swept at 45° in the direction of flu direction will be formed using long r "knuckle" type bends will not be use	es will be o ow. All ber adius beno	configured ids and cl is or 2Nº	d so as to hanges in 45° bends		
	out in accordance with the requirem Standard BS EN 12056:2000 and th	ents of the	e current E	British		
9.	Fire Stopping – Where pipework pa or through intermediate floors, intun diameter of the pipe concerned from to be installed in accordance with th	asses throu nescent fire n the same	ugh firebr e collars t e manufac	eak walls to suit the cturer will		
10.	requirements and recommendations Bracketry – Bracketry will be provic of British Standard BS EN 12056: P	s. led to mee	t the requ	uirements		
	from the pipe manufacturer's standa with anchor brackets and restraints movement under operating conditio	ard range v as directed	vill be em d to limit t	ployed hermal		
11.	provided with acoustic inserts to pre <u>Acoustics</u> – All soil, waste and rain provided with a minimum 40mm pre wool surround Rockwool "Techwrap	water pipe -formed fo	work will il faced m	be nineral		
	wool surround Rockwool "Techwrap/Techtube" or equal, to minimise noise breakout within the space to achieve NR30, banded to indicate the service within. Where pipework is to pass through intermediate floors or walls, an acoustic sleeve will be provided. To minimise structure borne sound each bracket will be					
12.	provided with an acoustic insert fror range. Testing – All soil, waste, ventilating be air and performance tested in ac	and rainw	ater pipe			
13.	requirements of British Standard BS FCU Condensate connections not s details.			matics for		
C8	ISSUED FOR CONSTRUCTION	SRW	МІ	11.02.20		
C8 C7	ISSUED FOR CONSTRUCTION	SRW	MI	31.01.20		
C6	ISSUED FOR CONSTRUCTION	SRW	DG	19.12.19		
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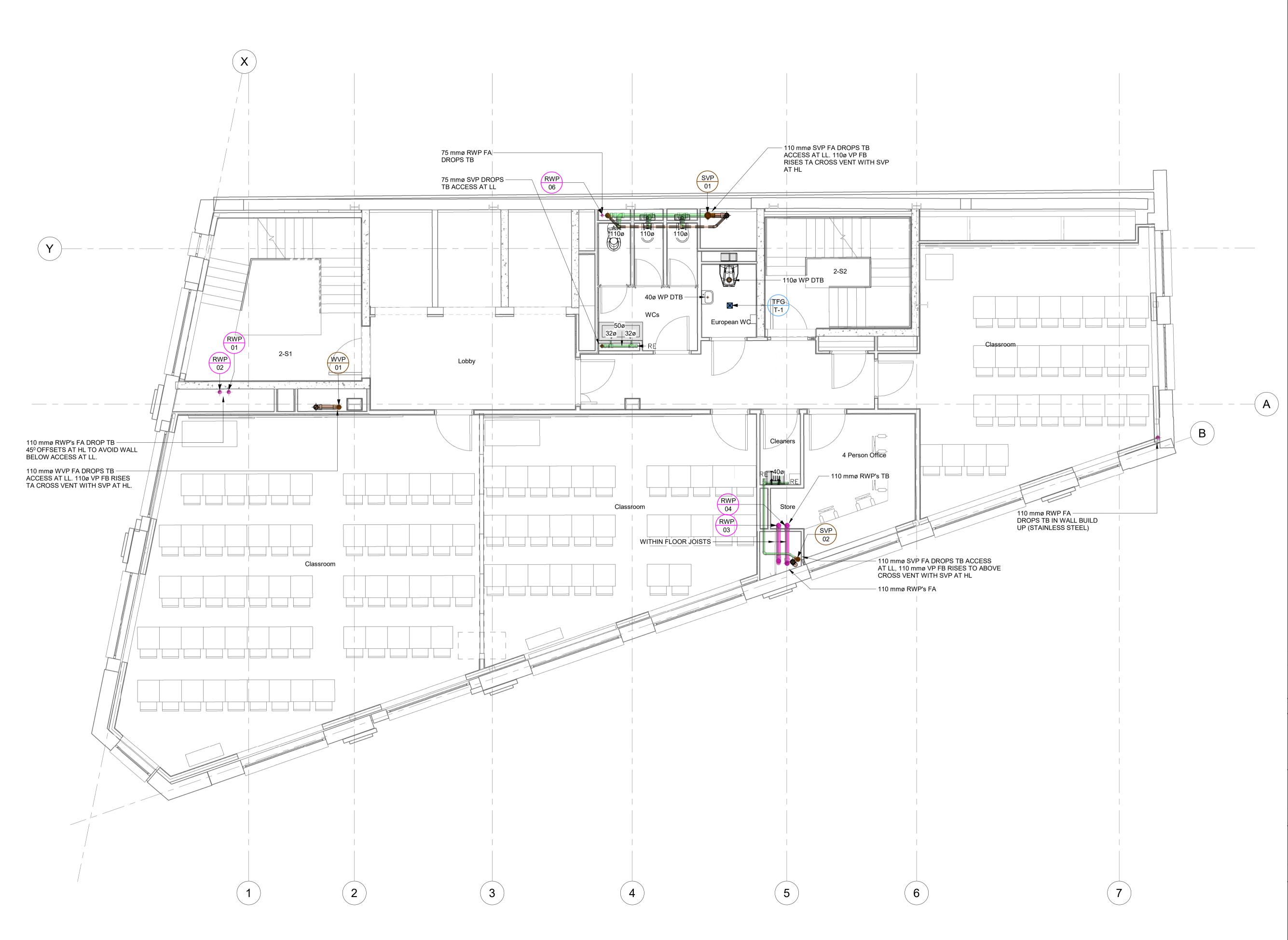
PERMISSION DO NOT SCALE. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING DIMENSIONS WHICH ARE IN MILLIMETRES UNLESS OTHERWISE STATED.							
LEG	END						
SVP SP	· -	SOIL VENT PIPE SOIL PIPE					
WVF		WASTE VENT PIPE					
WP VP ASP	-	WASTE PIPE VENT PIPE ANTI-SYPHON PIPE					
RE VA	-	RODDING EYE VERTICAL ACCESS					
	- P -	CONDENSATE WAS WATERLESS TRAP	E PIPE				
DW	-	DISHWASHER PROV					
SFD TFG	i -	- SHOWER FLOOR DRAIN - TRAPPED FLOOR GULLEY					
RW	P - RAINWATER PIPE						
ROF	-	RAINWATER OUTFA					
		LOW LEVEL SANITA					
_		VENT PIPE RAINWATER PIPE					
Soil.	Waste and R	ainwater Installations N	otes:				
1.				rk – All s	oil waste		
	Pipework, Soil, Waste & Rainwater Pipework – All soil, waste & rainwater and ventilating pipework of sizes 50mm and above will be carried out in High Density Polyethylene (HDPE) to BS EN 1519 with electro-sleeve coupling joints Polypipe Terrain "Fuze". Expansion will be taken up by means of proprietary expansion sleeve couplings at 3.0m centres with accompanying anchor						
2.	brackets to restrict movement. All pipework running exposed within plant or store area shall be cast iron. <u>Pipework, Concealed Within Cladding</u> – In order to prevent the spread of flame, all pipework and fittings located behind cladding will be carried out in pipework and fittings located behind cladding						
	will be carried out in push-fit austenitic stainless steel Grade AISI 304 with push-fit joints as manufactured by Blücher (UK) from their "Europipe" range of pipework and fittings. All pipework and fittings for continuity of quality and compatibility will be obtained from the same manufacturer. Plastics/combustible pipework						
3.	Pipewor All traps All waste	will <u>NOT</u> be utilised for the second	ces and Sal	nitarywar	3943:1979.		
4.	<u>WC Con</u> header v suit the g	pper Table X. <u>nectors</u> – Connections b <i>i</i> ll be made using proprie gradient involved. Opposi alleviate any problems w	tary angled ng connecti	pan conn ons will b	ectors to e arranged		
5. 6.	connecto <u>Rainwat</u> installed	ors will <u>NOT</u> be utilised fo <u>er Outlets</u> – Rainwater o by others. <u>I Pipework</u> – All expose	r this purpos utlets will be	se. e supplied	and		
	chromiu pipework	n plated copper as descr section.	bed within t	he water	services		
7.	provided at the he rainwate	 Access for soil, waste a at each floor level, chan ads of the runs and as re r pipework will be provide in direction, major junction 	ges in direct quired for te d at alternat	tion, majo esting. Ac te floor lev	r junctions, cess for vels,		
8.	and as re Installat manufac will be a	equired for testing. <u>ion</u> – Throughout the dur turers' instructions, requi thered to at all times. All	ation of the rements and pipework wi	works the I recomm II be insta	endations lled to		
	operating unless s installed	e and easy draining of the g conditions by maintaining tated otherwise on the dra true and plumb. All brand	ng a fall of n awings. Vert ches will be	o less tha ical pipev configure	an 1:40 vork will be d so as to		
	direction "knuckle out in ac	at 45° in the direction of will be formed using long type bends will not be u cordance with the required	radius ben sed. All worl ments of th	ds or 2Nº <s t<br="" to="" will="">e current</s>	45° bends be carried British		
9.	Standard BS EN 12056:2000 and the Building Regulations. Fire Stopping – Where pipework passes through firebreak walls or through intermediate floors, intumescent fire collars to suit the diameter of the pipe concerned from the same manufacturer will						
10.	to be installed in accordance with the manufacturer's instructions, requirements and recommendations. Bracketry – Bracketry will be provided to meet the requirements of British Standard BS EN 12056: Part 2:2000. Brackets selected from the pipe manufacturer's standard range will be employed with anchor brackets and restraints as directed to limit thermal						
11.	movement under operating conditions. All brackets will be provided with acoustic inserts to prevent structure borne sound.						
	minimise noise breakout within the space to achieve NR30, banded to indicate the service within. Where pipework is to pass through intermediate floors or walls, an acoustic sleeve will be provided. To minimise structure borne sound each bracket will be provided with an acoustic insert from the manufacturer's standard						
12.		– All soil, waste, ventilati			work will		
	requirem	d performance tested in ents of British Standard	3S EN 1205	6:2000.			
13.	FCU Cor details.	ndensate connections no	shown, refe	er to sche	matics for		
C7	ISSUED FO	R CONSTRUCTION	SRW	МІ	11.02.20		
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C5			SRW	DG	19.12.19		
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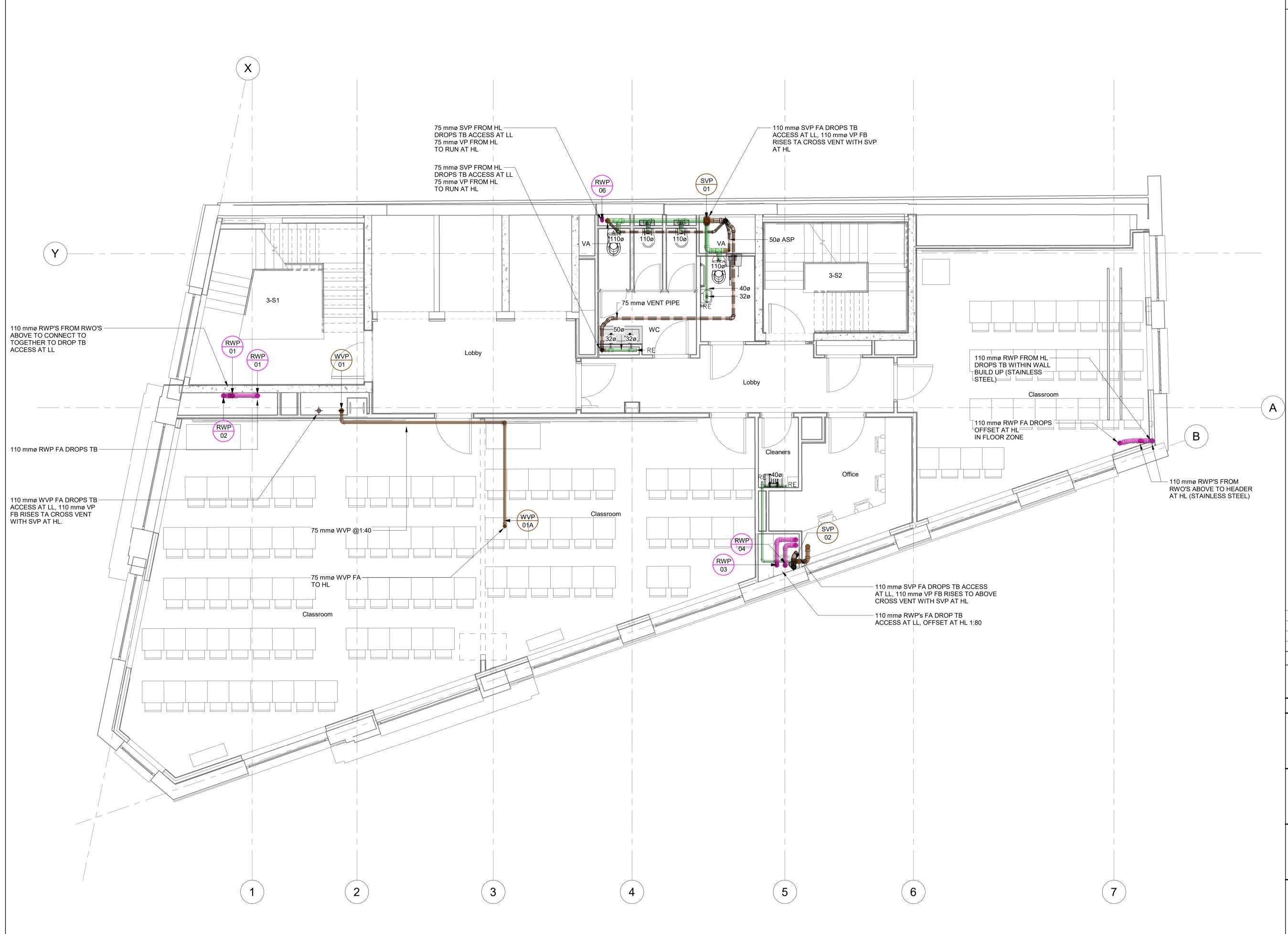
CONDENSATE WASTE PIPE DISHWASHER PROVISION TRAPPED FLOOR GULLEY HIGH LEVEL SANITARY PIPE LOW LEVEL SANITARY PIPE **<u>Pipework, Soil, Waste & Rainwater Pipework</u>** – All soil, waste & rainwater and ventilating pipework of sizes 50mm and above will be carried out in High Density Polyethylene (HDPE) to BS EN 1519 with electro-sleeve coupling joints Polypipe Terrain "Fuze". Expansion will be taken up by means of proprietary expansion sleeve couplings at 3.0m centres with accompanying anchor brackets to restrict movement. All pipework running exposed within plant or store area shall be cast iron. Pipework, Concealed Within Cladding - In order to prevent the spread of flame, all pipework and fittings located behind cladding will be carried out in push-fit austenitic stainless steel Grade AISI 304 with push-fit joints as manufactured by Blücher (UK) from their "Europipe" range of pipework and fittings. All pipework and fittings for continuity of quality and compatibility will be obtained from the same manufacturer. Plastics/combustible pipework materials will <u>NOT</u> be utilised for this purpose. Pipework, Branches to Appliances and Sanitaryware – All traps will be two-piece tubular polypropylene to BS 3943:1979. All waste water pipework serving the water heaters will be carried WC Connectors – Connections between the WC pan and soil header will be made using proprietary angled pan connectors to suit the gradient involved. Opposing connections will be arranged offset to alleviate any problems with cross-flow. Flexible WC pan connectors will <u>NOT</u> be utilised for this purpose. Rainwater Outlets – Rainwater outlets will be supplied and Exposed Pipework – All exposed pipework will be carried out in chromium plated copper as described within the water services Access – Access for soil, waste and ventilating pipework will be provided at each floor level, changes in direction, major junctions, at the heads of the runs and as required for testing. Access for rainwater pipework will be provided at alternate floor levels, changes in direction, major junctions, at the heads of the runs Installation – Throughout the duration of the works the manufacturers' instructions, requirements and recommendations will be adhered to at all times. All pipework will be installed to allow free and easy draining of the system under normal operating conditions by maintaining a fall of no less than 1:40 unless stated otherwise on the drawings. Vertical pipework will be installed true and plumb. All branches will be configured so as to be swept at 45° in the direction of flow. All bends and changes in direction will be formed using long radius bends or 2N° 45° bends "knuckle" type bends will not be used. All works will to be carried out in accordance with the requirements of the current British Standard BS EN 12056:2000 and the Building Regulations. Fire Stopping – Where pipework passes through firebreak walls or through intermediate floors, intumescent fire collars to suit the diameter of the pipe concerned from the same manufacturer will to be installed in accordance with the manufacturer's instructions, **Bracketry** – Bracketry will be provided to meet the requirements of British Standard BS EN 12056: Part 2:2000. Brackets selected from the pipe manufacturer's standard range will be employed with anchor brackets and restraints as directed to limit thermal movement under operating conditions. All brackets will be provided with acoustic inserts to prevent structure borne sound. Acoustics – All soil, waste and rainwater pipework will be provided with a minimum 40mm pre-formed foil faced mineral wool surround Rockwool "Techwrap/Techtube" or equal, to minimise noise breakout within the space to achieve NR30, banded to indicate the service within. Where pipework is to pass through intermediate floors or walls, an acoustic sleeve will be provided. To minimise structure borne sound each bracket will be provided with an acoustic insert from the manufacturer's standard **<u>Testing</u>** – All soil, waste, ventilating and rainwater pipework will be air and performance tested in accordance with the requirements of British Standard BS EN 12056:2000. FCU Condensate connections not shown, refer to schematics for SRW MI 11.02.20 SRW MI 31.01.20 SRW DG 28.10.19 SRW DG 23.10.19 Drawn Ch'kd Date For Construction ELEMENTS M&E CONTRACTING LTD CAMBRIDGE HOUSE, BIRKBECK

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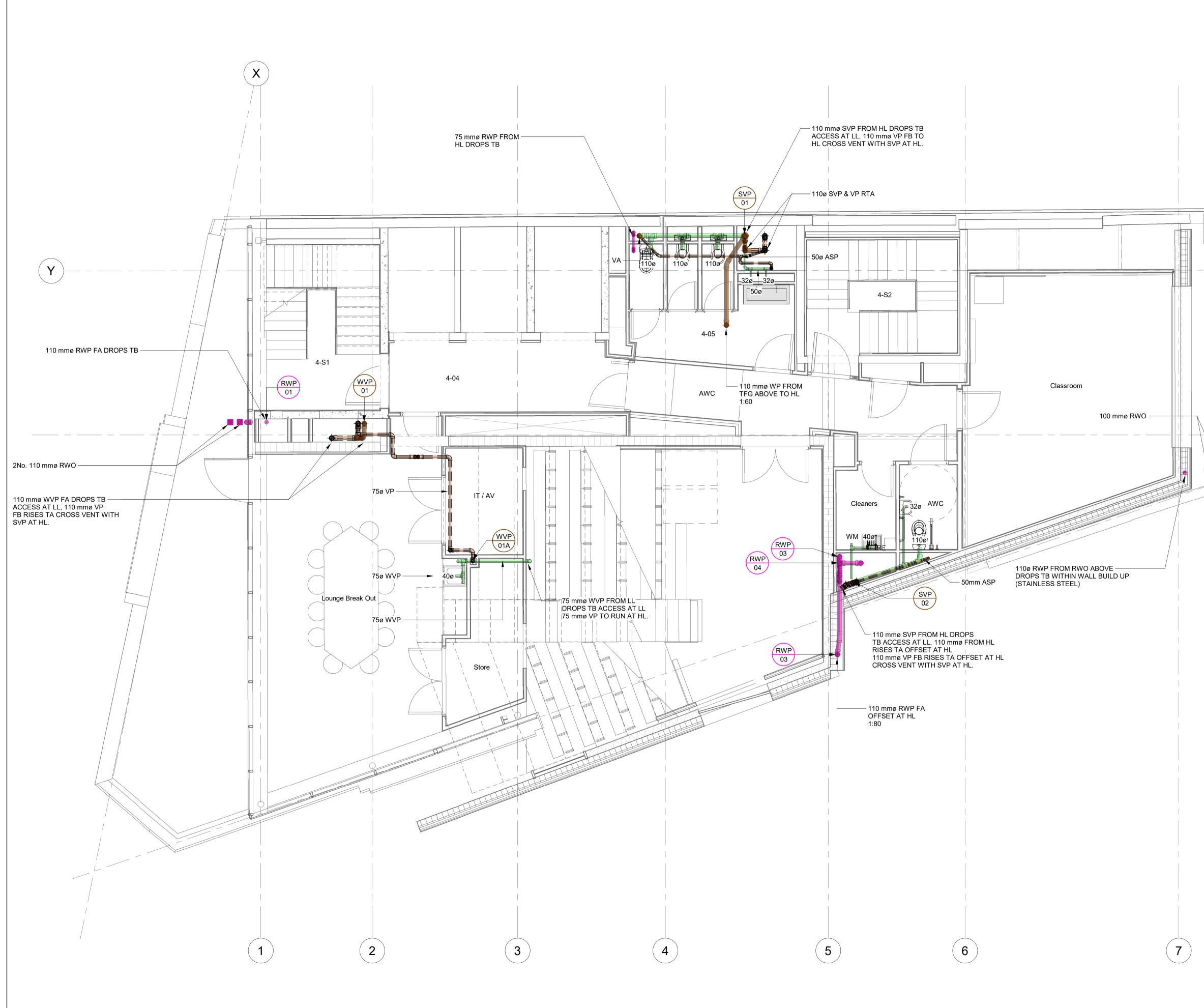


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LEG	GEND					
SVF		SOIL VENT PIPE				
SP WV	- P -	SOIL PIPE WASTE VENT PIPE				
WP VP	-	WASTE PIPE VENT PIPE				
ASF RE	-	ANTI-SYPHON PIPE RODDING EYE				
VA CW		VERTICAL ACCESS	E PIPE			
WT DW SFD	-	WATERLESS TRAP DISHWASHER PROV				
TFO	÷ -	SHOWER FLOOR DR TRAPPED FLOOR GU RAINWATER OUTLE	JLLEY			
RW RW ROI	Р -	RAINWATER OUTLE RAINWATER PIPE RAINWATER OUTFAI				
	-	HIGH LEVEL SANITA				
		LOW LEVEL SANITA	RY PIPE			
VENT PIPE RAINWATER PIPE						
<u>Soil,</u>	Waste and Ra	ainwater Installations N	otes:			
1.	Pipewor	k, Soil, Waste & Rainwa	ter Pipewo	ork – All s	oil, waste	
	& rainwater and ventilating pipework of sizes 50mm and above will be carried out in High Density Polyethylene (HDPE) to BS EN 1519 with electro-sleeve coupling joints Polypipe Terrain "Fuze". Expansion will be taken up by means of proprietary expansion					
	brackets	ouplings at 3.0m centres to restrict movement. All nt or store area shall be	pipework ru			
2.		k, Concealed Within Cla flame, all pipework and				
	304 with	rried out in push-fit auste push-fit joints as manufa	ctured by B	lücher (U	K) from	
	fittings fo	opipe" range of pipework r continuity of quality and	l compatibil	ity will be	obtained	
	materials	same manufacturer. Plas will <u>NOT</u> be utilised for t	his purpose)		
3.	All traps	k, Branches to Appliand will be two-piece tubular	oolypropyle	ne to BS	<u>39</u> 43:1979.	
	out in cop	water pipework serving to per Table X.				
4.	header w	nectors – Connections b ill be made using proprie radient involved. Opposi	tary angled	pan conr	nectors to	
	offset to a	radient involved. Opposi alleviate any problems w rs will NOT be utilised fo	th cross-flo	w. Flexibl		
5.	Rainwate	rs will <u>NOT</u> be utilised fo er Outlets – Rainwater o by others.			d and	
6.	Exposed	by others. I <mark>Pipework</mark> – All exposed n plated copper as descri				
7.	pipework					
	provided	at each floor level, chang ads of the runs and as re	ges in direc	tion, majo	or junctions,	
	rainwater	pipework will be provide in direction, major junction	d at alterna	te floor le	vels,	
8.	and as re	quired for testing. <u>on</u> – Throughout the dur				
	manufact will be ad	urers' instructions, requi hered to at all times. All	ements and pipework wi	d recomm II be insta	endations	
		and easy draining of the conditions by maintainin				
	installed	ated otherwise on the dra true and plumb. All branc	hes will be	configure	ed so as to	
	direction	at 45° in the direction of will be formed using long	radius ben	ds or 2N ^o	945° bends	
	out in acc	type bends will not be us cordance with the require	ments of th	e current	British	
9.	Fire Stop	BS EN 12056:2000 and pping – Where pipework	passes thro	ough fireb	reak walls	
	diameter	h intermediate floors, intu of the pipe concerned fro	om the sam	e manufa	cturer will	
10	requirem	alled in accordance with ents and recommendatio	ns.			
10.	of British	<u>v</u> – Bracketry will be prov Standard BS EN 12056:	Part 2:2000). Bracke	ts selected	
	with anch	pipe manufacturer's stan or brackets and restraint	s as directe	ed to limit	thermal	
11.	provided	nt under operating condit with acoustic inserts to p s – All soil, waste and ra	revent strue	cture borr	ne sound.	
	provided	with a minimum 40mm p ound Rockwool "Techwra	re-formed f	oil faced i	mineral	
	minimise	noise breakout within the indicate the service wit	space to a	achieve N	R30,	
	through ii	ntermediate floors or wall To minimise structure b	s, an acous	stic sleeve	e will be	
	provided range.	with an acoustic insert fr	om the mar	nufacturer	's standard	
12.	be air and	- All soil, waste, ventilatin d performance tested in a	accordance	with the	work will	
13.	FCU Con	ents of British Standard E densate connections not			ematics for	
	details.					
C8	ISSUED FO	R CONSTRUCTION	SRW	МІ	11.02.20	
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C6	ISSUED FO	R CONSTRUCTION	SRW	DG	28.10.19	
C5	ISSUED FO	R CONSTRUCTION	SRW	DG	23.10.19	
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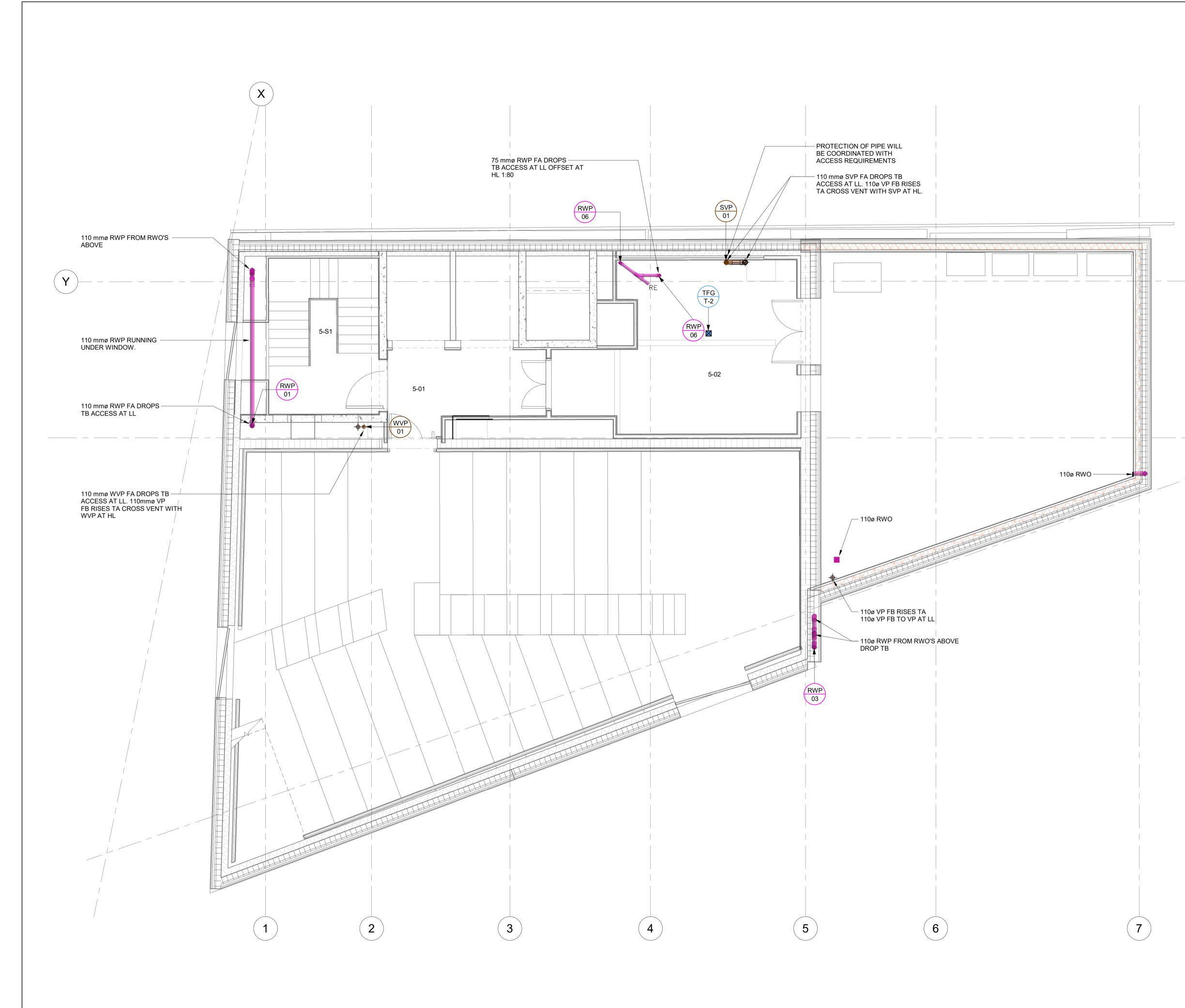
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LEGEND SVP - SOIL VENT PIPE SP - SOIL PIPE WVP - WASTE VENT PIPE WP - WASTE PIPE VP - VENT PIPE		
SP-SOIL PIPEWVP-WASTE VENT PIPEWP-WASTE PIPEVP-VENT PIPE		
WP - WASTE PIPE VP - VENT PIPE		
ASP - ANTI-SYPHON PIPE RE - RODDING EYE		
VA - VERTICAL ACCESS CWP - CONDENSATE WASTE PIPE WT - WATERLESS TRAP		
WT - WATERLESS TRAP DW - DISHWASHER PROVISION SFD - SHOWER FLOOR DRAIN		
TFG - TRAPPED FLOOR GULLEY RWO - RAINWATER OUTLET		
RWP - RAINWATER PIPE ROF - RAINWATER OUTFALL		
LOW LEVEL SANITARY PIPE		
RAINWATER PIPE		
Soil, Waste and Rainwater Installations Notes: 1. Pipework, Soil, Waste & Rainwater Pipework – All soil, was	te	
 & rainwater and ventilating pipework of sizes 50mm and above will be carried out in High Density Polyethylene (HDPE) to BS 	е	
1519 with electro-sleeve coupling joints Polypipe Terrain "Fuze Expansion will be taken up by means of proprietary expansion	e".	
sleeve couplings at 3.0m centres with accompanying anchor brackets to restrict movement. All pipework running exposed		
 within plant or store area shall be cast iron. Pipework, Concealed Within Cladding – In order to prevent spread of flame, all pipework and fittings located behind cladd 	the	
will be carried out in push-fit austenitic stainless steel Grade A 304 with push-fit joints as manufactured by Blücher (UK) from	ISI	
their "Europipe" range of pipework and fittings. All pipework an fittings for continuity of quality and compatibility will be obtained	nd	
from the same manufacturer. Plastics/combustible pipework materials will <u>NOT</u> be utilised for this purpose.		
 Pipework, Branches to Appliances and Sanitaryware – All traps will be two-piece tubular polypropylene to BS 3943:19 All waste water pipework serving the water heaters will be carr 		
 All waste water pipework serving the water heaters will be carr out in copper Table X. <u>WC Connectors</u> – Connections between the WC pan and soil 		
header will be made using proprietary angled pan connectors suit the gradient involved. Opposing connections will be arrang	to ged	
offset to alleviate any problems with cross-flow. Flexible WC p connectors will <u>NOT</u> be utilised for this purpose.	an	
 <u>Rainwater Outlets</u> – Rainwater outlets will be supplied and installed by others. Exposed Pipework – All exposed pipework will be carried out 	in	
chromium plated copper as described within the water services pipework section.		
 <u>Access</u> – Access for soil, waste and ventilating pipework will b provided at each floor level, changes in direction, major junction 	ons,	
at the heads of the runs and as required for testing. Access fo rainwater pipework will be provided at alternate floor levels, changes in direction, major junctions, at the heads of the runs		
 and as required for testing. Installation – Throughout the duration of the works the 		
manufacturers' instructions, requirements and recommendation will be adhered to at all times. All pipework will be installed to	ons	
allow free and easy draining of the system under normal operating conditions by maintaining a fall of no less than 1:40		
unless stated otherwise on the drawings. Vertical pipework will installed true and plumb. All branches will be configured so as be swept at 45° in the direction of flow. All bends and changes	to	
direction will be formed using long radius bends or 2N° 45° be "knuckle" type bends will not be used. All works will to be carrie	nds	
out in accordance with the requirements of the current British Standard BS EN 12056:2000 and the Building Regulations.		
 Fire Stopping – Where pipework passes through firebreak was or through intermediate floors, intumescent fire collars to suit t diameter of the pipe concerned from the same manufacturer was 	the	
to be installed in accordance with the manufacturer's instruction requirements and recommendations.		
 Bracketry – Bracketry will be provided to meet the requirement of British Standard BS EN 12056: Part 2:2000. Brackets select 		
from the pipe manufacturer's standard range will be employed with anchor brackets and restraints as directed to limit thermal		
movement under operating conditions. All brackets will be		
provided with acoustic inserts to prevent structure borne sound	d.	
11. <u>Acoustics</u> – All soil, waste and rainwater pipework will be provided with a minimum 40mm pre-formed foil faced mineral		
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LEG	SEND				
SVF SP	- SOIL PIPE				
WV WP VP					
ASF RE	P - ANTI-SYPHON PIPE - RODDING EYE				
VA CW WT	- WATERLESS TRAP				
DW SFD TFG	- DISHWASHER PROVISION - SHOWER FLOOR DRAIN				
RW	O - RAINWATER OUTLET				
ROF					
	LOW LEVEL SANITARY PIPE				
	RAINWATER PIPE				
<u>Soil,</u> 1.	Waste and Rainwater Installations Notes: Pipework, Soil, Waste & Rainwater Pipework – All soil, waste				
2. 3. 4. 5. 6. 7. 8. 9. 10.	 spread of flame, all pipework and fittings located behind cladding will be carried out in push-fit austenitic stainless steel Grade AISI 304 with push-fit joints as manufactured by Blücher (UK) from their "Europipe" range of pipework and fittings. All pipework and fittings for continuity of quality and compatibility will be obtained from the same manufacturer. Plastics/combustible pipework materials will NOT be utilised for this purpose. Pipework, Branches to Appliances and Sanitaryware – All traps will be two-piece tubular polypropylene to BS 3943:1979. All waste water pipework serving the water heaters will be carried out in copper Table X. WC Connectors – Connections between the WC pan and soil header will be made using proprietary angled pan connectors to suit the gradient involved. Opposing connections will be arranged offset to alleviate any problems with cross-flow. Flexible WC pan connectors will NOT be utilised for this purpose. Rainwater Outlets – Rainwater outlets will be supplied and installed by others. Exposed Pipework – All exposed pipework will be carried out in chromium plated copper as described within the water services pipework section. Access – Access for soil, waste and ventilating pipework will be provided at each floor level, changes in direction, major junctions, at the heads of the runs and as required for testing. Access for rainwater pipework will be provided at alternate floor levels, changes in direction, major junctions, will be adhered to at all times. All pipework will be installed to allow free and easy draining of the system under normal operating conditions by maintaining a fall of no less than 1:40 unless stated otherwise on the drawings. Vertical pipework will be installed true and plumb. All branches will be configured so as to be swept at 45° in the direction of flow. All bends and changes in direction will be formed using long radius bends or 2N⁴ 45° bends "knuckle" type bends will note used.				
11.	movement under operating conditions. All brackets will be provided with acoustic inserts to prevent structure borne sound. <u>Acoustics</u> – All soil, waste and rainwater pipework will be provided with a minimum 40mm pre-formed foil faced mineral wool surround Rockwool "Techwrap/Techtube" or equal, to minimise noise breakout within the space to achieve NR30, banded to indicate the service within. Where pipework is to pass through intermediate floors or walls, an acoustic sleeve will be provided with an acoustic insert from the manufacturer's standard range. <u>Testing</u> – All soil, waste, ventilating and rainwater pipework will be air and performance tested in accordance with the				
13.	be air and performance tested in accordance with the requirements of British Standard BS EN 12056:2000. FCU Condensate connections not shown, refer to schematics for details.				
C7 C6	ISSUED FOR CONSTRUCTIONSRWMI11.02.20ISSUED FOR CONSTRUCTIONSRWMI31.01.20				
C6 C5	ISSUED FOR CONSTRUCTIONSRWMil31.01.20ISSUED FOR CONSTRUCTIONSRWDG17.10.19				
C4	ISSUED FOR CONSTRUCTION SRW DG 16.10.19				
Rev.	Description Drawn Ch'kd Date				
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WT DW SFD TFG RWO RWP ROF RAINWATER OUTFALL -HIGH LEVEL SANITARY PIPE LOW LEVEL SANITARY PIPE VENT PIPE RAINWATER PIPE 3. out in copper Table X. 5. installed by others pipework section. Α B 10. 11. 12. details. Description

Soil, Waste and Rainwater Installations Notes: Pipework, Soil, Waste & Rainwater Pipework - All soil, waste & rainwater and ventilating pipework of sizes 50mm and above will be carried out in High Density Polyethylene (HDPE) to BS EN 1519 with electro-sleeve coupling joints Polypipe Terrain "Fuze". Expansion will be taken up by means of proprietary expansion sleeve couplings at 3.0m centres with accompanying anchor brackets to restrict movement. All pipework running exposed within plant or store area shall be cast iron. Pipework, Concealed Within Cladding - In order to prevent the spread of flame, all pipework and fittings located behind cladding will be carried out in push-fit austenitic stainless steel Grade AISI 304 with push-fit joints as manufactured by Blücher (UK) from their "Europipe" range of pipework and fittings. All pipework and fittings for continuity of quality and compatibility will be obtained from the same manufacturer. Plastics/combustible pipework materials will <u>NOT</u> be utilised for this purpose. Pipework, Branches to Appliances and Sanitaryware – All traps will be two-piece tubular polypropylene to BS 3943:1979. All waste water pipework serving the water heaters will be carried WC Connectors – Connections between the WC pan and soil header will be made using proprietary angled pan connectors to suit the gradient involved. Opposing connections will be arranged offset to alleviate any problems with cross-flow. Flexible WC pan connectors will <u>NOT</u> be utilised for this purpose. Rainwater Outlets – Rainwater outlets will be supplied and **Exposed Pipework** – All exposed pipework will be carried out in chromium plated copper as described within the water services Access – Access for soil, waste and ventilating pipework will be provided at each floor level, changes in direction, major junctions, at the heads of the runs and as required for testing. Access for rainwater pipework will be provided at alternate floor levels, changes in direction, major junctions, at the heads of the runs and as required for testing. Installation – Throughout the duration of the works the manufacturers' instructions, requirements and recommendations will be adhered to at all times. All pipework will be installed to allow free and easy draining of the system under normal operating conditions by maintaining a fall of no less than 1:40 unless stated otherwise on the drawings. Vertical pipework will be installed true and plumb. All branches will be configured so as to be swept at 45° in the direction of flow. All bends and changes in direction will be formed using long radius bends or 2N° 45° bends "knuckle" type bends will not be used. All works will to be carried out in accordance with the requirements of the current British Standard BS EN 12056:2000 and the Building Regulations. Fire Stopping – Where pipework passes through firebreak walls or through intermediate floors, intumescent fire collars to suit the diameter of the pipe concerned from the same manufacturer will to be installed in accordance with the manufacturer's instructions. requirements and recommendations. **<u>Bracketry</u>** – Bracketry will be provided to meet the requirements of British Standard BS EN 12056: Part 2:2000. Brackets selected from the pipe manufacturer's standard range will be employed with anchor brackets and restraints as directed to limit thermal movement under operating conditions. All brackets will be provided with acoustic inserts to prevent structure borne sound. Acoustics – All soil, waste and rainwater pipework will be provided with a minimum 40mm pre-formed foil faced mineral wool surround Rockwool "Techwrap/Techtube" or equal, to minimise noise breakout within the space to achieve NR30, banded to indicate the service within. Where pipework is to pass through intermediate floors or walls, an acoustic sleeve will be provided. To minimise structure borne sound each bracket will be provided with an acoustic insert from the manufacturer's standard Testing – All soil, waste, ventilating and rainwater pipework will be air and performance tested in accordance with the requirements of British Standard BS EN 12056:2000. 13. FCU Condensate connections not shown, refer to schematics for SRW MI 11.02.20 C6 ISSUED FOR CONSTRUCTION C5 ISSUED FOR CONSTRUCTION SRW MI 31.01.20 SRW DG 17.10.19 C4 ISSUED FOR CONSTRUCTION C3 ISSUED FOR CONSTRUCTION SRW DG 16.10.19 Drawn Ch'kd Date For Construction Architect GIBBERD ELEMENTS M&E CONTRACTING LTD CAMBRIDGE HOUSE, BIRKBECK COLLEGE Drawing Title: FIFTH FLOOR DRAINAGE LAYOUT iles consi ENGINEERING EXCELLENCE ILES Consulting Ltd Metropolitan House, Longrigg Road, Swalwell, Gateshead, NE16 3AS t: 0191 4956250 f: 0191 4067500 e: mail:ilesconsulting.co.uk w:www.ilesconsulting.co.uk REVIT Directory: I:\Projects\19-000\19-011\Drawings\ Scale: 1:50 Drawing Size: A1 Dwg No: Rev: 19-011-M-52-05-001 C6

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DO NOT SCALE. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING DIMENSIONS WHICH ARE

SOIL VENT PIPE SOIL PIPE WASTE VENT PIPE

WASTE PIPE VENT PIPE ANTI-SYPHON PIPE

RODDING EYE

VERTICAL ACCESS CONDENSATE WASTE PIPE

WATERLESS TRAP

DISHWASHER PROVISION

TRAPPED FLOOR GULLEY

SHOWER FLOOR DRAIN

RAINWATER OUTLET RAINWATER PIPE

PERMISSION

LEGEND

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WP VP ASP RE

VA CWP

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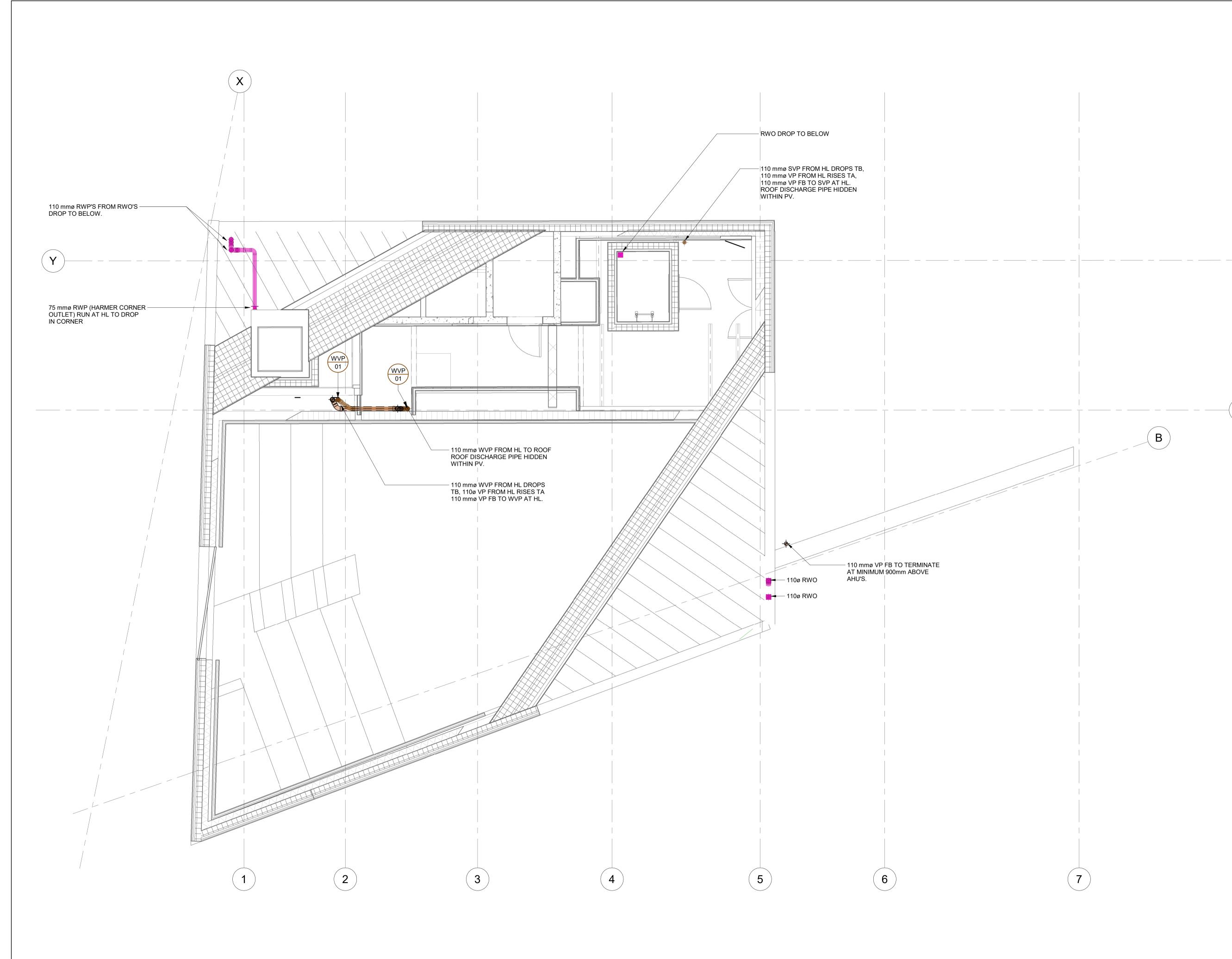
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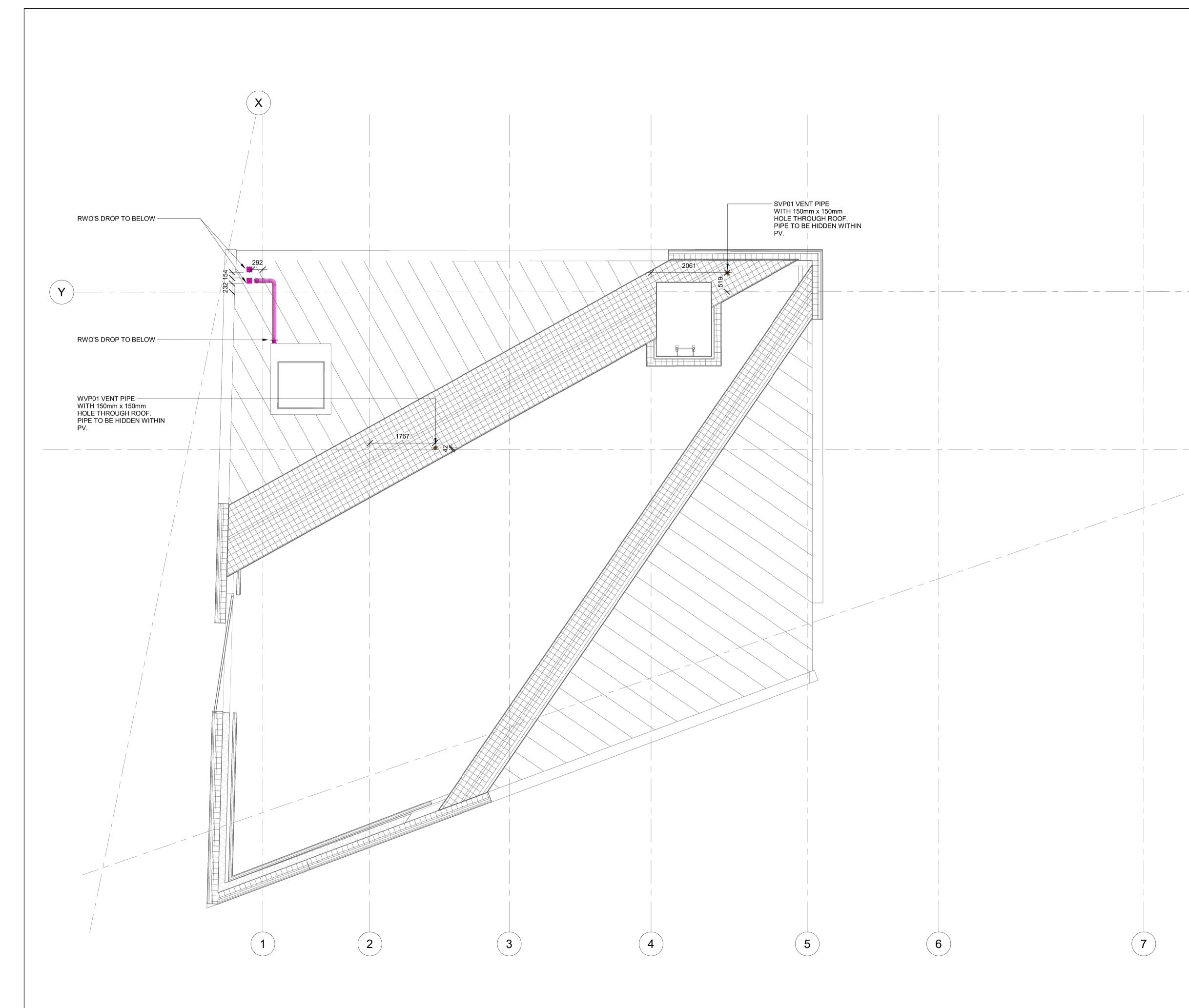
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	VP ASP	-	VENT PIPE ANTI-SYPHON PIPE					
	RE VA	-	RODDING EYE VERTICAL ACCESS					
	CWP WT	-	CONDENSATE WASTE P WATERLESS TRAP	IPE				
	DW	-	DISHWASHER PROVISIO	N				
	SFD TFG	-	SHOWER FLOOR DRAIN TRAPPED FLOOR GULLE	ΞY				
	RWO RWP		RAINWATER OUTLET RAINWATER PIPE					
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			HIGH LEVEL SANITARY I					
			LOW LEVEL SANITARY F	PIPE				
			RAINWATER PIPE					
	Soil, W	aste and Rai	nwater Installations Notes	<u>s:</u>				
	1.		Soil, Waste & Rainwater			waste		
	1.	& rainwate	r and ventilating pipework c	of sizes 50	mm and	above		
			ied out in High Density Poly electro-sleeve coupling join					
			will be taken up by means plings at 3.0m centres with					
		brackets to	restrict movement. All pipe t or store area shall be cast	ework runr				
	2.	Pipework,	Concealed Within Claddi	<u>ng</u> – In ore				
		will be carr	lame, all pipework and fittin ied out in push-fit austenitio	stainless	steel Gra	ade AISI		
			ush-fit joints as manufacture pipe" range of pipework and					
		fittings for	continuity of quality and cor	npatibility	will be ob	otained		
	 from the same manufacturer. Plastics/combustible pipework materials will <u>NOT</u> be utilised for this purpose. Pipework, Branches to Appliances and Sanitaryware – 							
	 Pipework, Branches to Appliances and Sanitaryware – All traps will be two-piece tubular polypropylene to BS 3943:1979. All waste water pipework serving the water heaters will be carried 							
				vater heat	ers will be	e carried		
	 out in copper Table X. <u>WC Connectors</u> – Connections between the WC pan and soil header will be made using proprietary angled pan connectors to 							
	header will be made using proprietary angled pan connectors to suit the gradient involved. Opposing connections will be arranged offset to alleviate any problems with cross-flow. Flexible WC pan							
	offset to alleviate any problems with cross-flow. Flexible WC pan connectors will <u>NOT</u> be utilised for this purpose.							
	5.	installed by	/ others.					
	6.		<u>Pipework</u> – All exposed pip plated copper as described					
	7.	pipework s Access –	ection. Access for soil, waste and v	/entilating	pipework	will be		
		provided a	t each floor level, changes is of the runs and as requir	in directio	n, major j	unctions,		
		rainwater p	ipework will be provided at	alternate	floor leve	ls,		
		and as req	direction, major junctions, uired for testing.			runs		
\wedge	8.		<u>n</u> – Throughout the duratior rers' instructions, requireme			ndations		
A			ered to at all times. All pipe and easy draining of the sys			ed to		
\smile		operating o	conditions by maintaining a	fall of no l	ess than			
		installed tr	ed otherwise on the drawin ue and plumb. All branches	will be co	nfigured	so as to		
			t 45° in the direction of flow ill be formed using long rad					
			ype bends will not be used. Irdance with the requiremer					
	9.	Standard E	S EN 12056:2000 and the ing – Where pipework pas	Building F	Regulation	ns.		
	5.	or through	intermediate floors, intume	scent fire	collars to	suit the		
		to be insta	f the pipe concerned from t led in accordance with the					
	10.		nts and recommendations. – Bracketry will be provided	d to meet	the requir	rements		
		of British S	tandard BŠ EN 12056: Par pe manufacturer's standarc	t 2:2000. I	Brackets	selected		
		with ancho	r brackets and restraints as under operating conditions	directed	o limit th	ermal		
		provided w	ith acoustic inserts to preve	ent structu	re borne	sound.		
	11.	provided w	 All soil, waste and rainwa ith a minimum 40mm pre-former 	ormed foil	faced mi	neral		
			und Rockwool "Techwrap/Te oise breakout within the sp					
			indicate the service within. ermediate floors or walls, a					
		provided. 7	o minimise structure borne of an acoustic insert from t	sound ea	ch brack	et will be		
	12.	range.						
	12.	be air and	All soil, waste, ventilating a performance tested in acco	rdance wi	th the			
	13.		nts of British Standard BS E ensate connections not sho			atics for		
		details.						
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	C3	ISSUED FC	R CONSTRUCTION	SRW	DG	14.08.19		
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B	 PEMSIGNI DO NOT SCALE THE CONTRACTOR IS REPORTIBLE FOR CHECKING DIMENSIONS WHICH ARE WHITHERESURESS OTHERWISE STATED. LEGEND SVP - SOLL YENT PIPE WVP - WASTE PIPE WVP - WASTE PIPE WVP - WASTE PIPE RE - RODDING EYE VYP - CONDENATE WASTE PIPE WYP - CONDENATE WASTE PIPE WYT - WATERLESS TRAP DDW - DISHWASTER POLOGO DRAIN FFG - TRAPPED FLOOR GULLEY RWP - RAINWATER PIPE WOT - RAINWATER PIPE CON LEVEL SANITARY PIPE LOW LEVEL SANITARY PIPE LOW LEVEL SANITARY PIPE LOW LEVEL SANITARY PIPE VENT PIPE RAINWATER PIPE Soli. Waste and Rainwater Installations Notes: PIREWORK, Soli. Waste & Rainwater Pipework - All soli, waste & Rainwater and malling pippow Golgethyme (HDPE) to BS EN MISSING and Some area shall be cast incom. PIREWORK, Concealed Within Cladding - In order to prevent the spread of flame, all solim caste solim compatibility with accompanying anchor brackets or rearts chall be cast incom. PIREWORK, Concealed Within Cladding - In order to prevent the spread of flame, all pipework and fittings located belind cladding will be carried ot in pub-Mit austeritic stainless steel Grade AlSI 304 with pub-Mit or quality and compatibility will be chained from the sum manufacturer. Plastoschorus bible pipework and fittings located belind cladding will be carried ot in pub-Mit austeritic stainless steel Grade AlSI 303. With pub-Mit or quality and compatibility will be chained from the same manufacturer. Plastoschorus bible pipework and fittings located bible carried out in compatibility will be chained from the same manufacturer by Blocker (UK) from their "Europipe" range of pipework and fitt					
	C3 ISSUED FOR CONSTRUCTION SRW MI 11.02.20 C2 ISSUED FOR CONSTRUCTION SRW DB 31.01.20 C1 ISSUED FOR CONSTRUCTION SRW DG 16.10.19 Rev. Description Drawn Ch'kd Date					
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