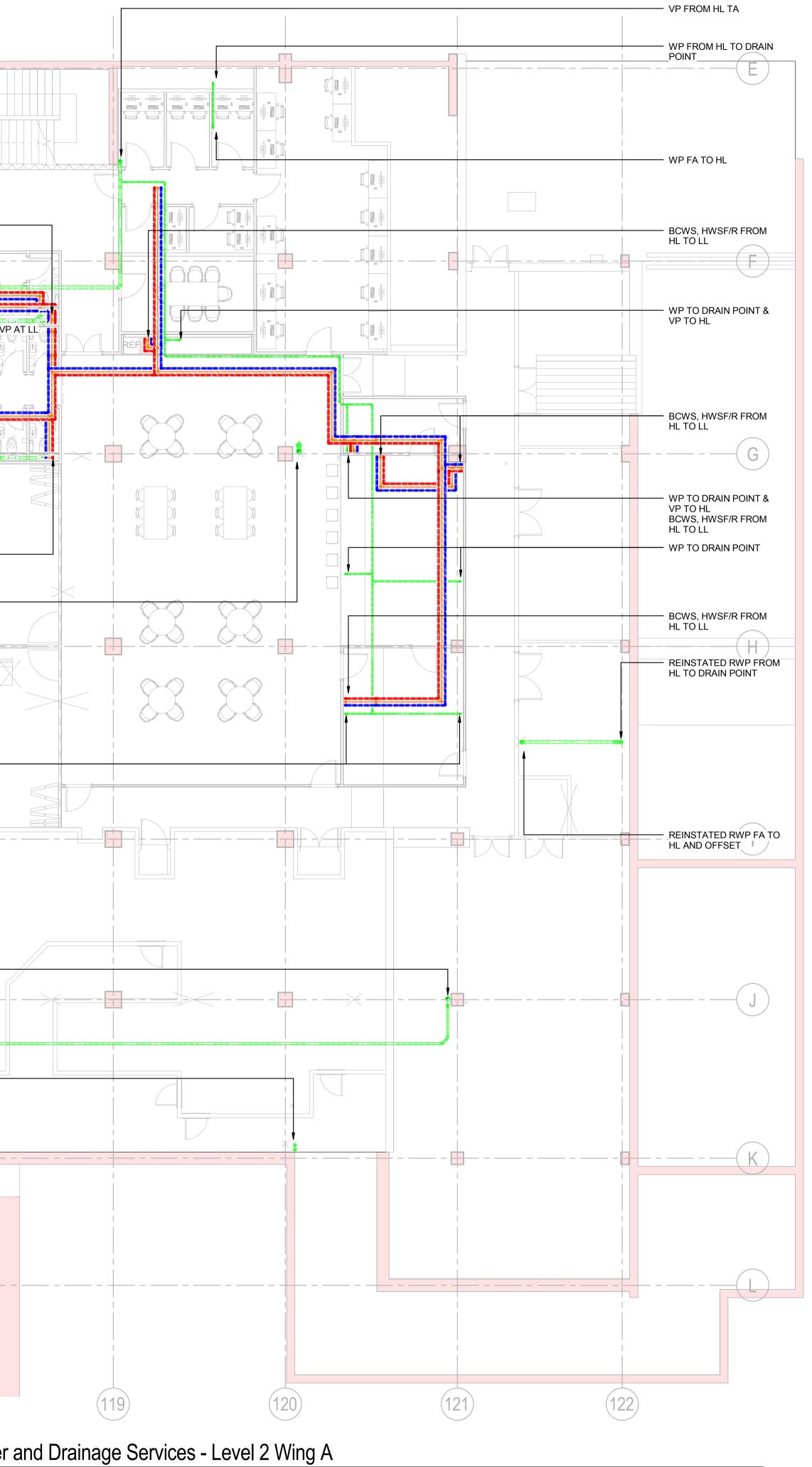
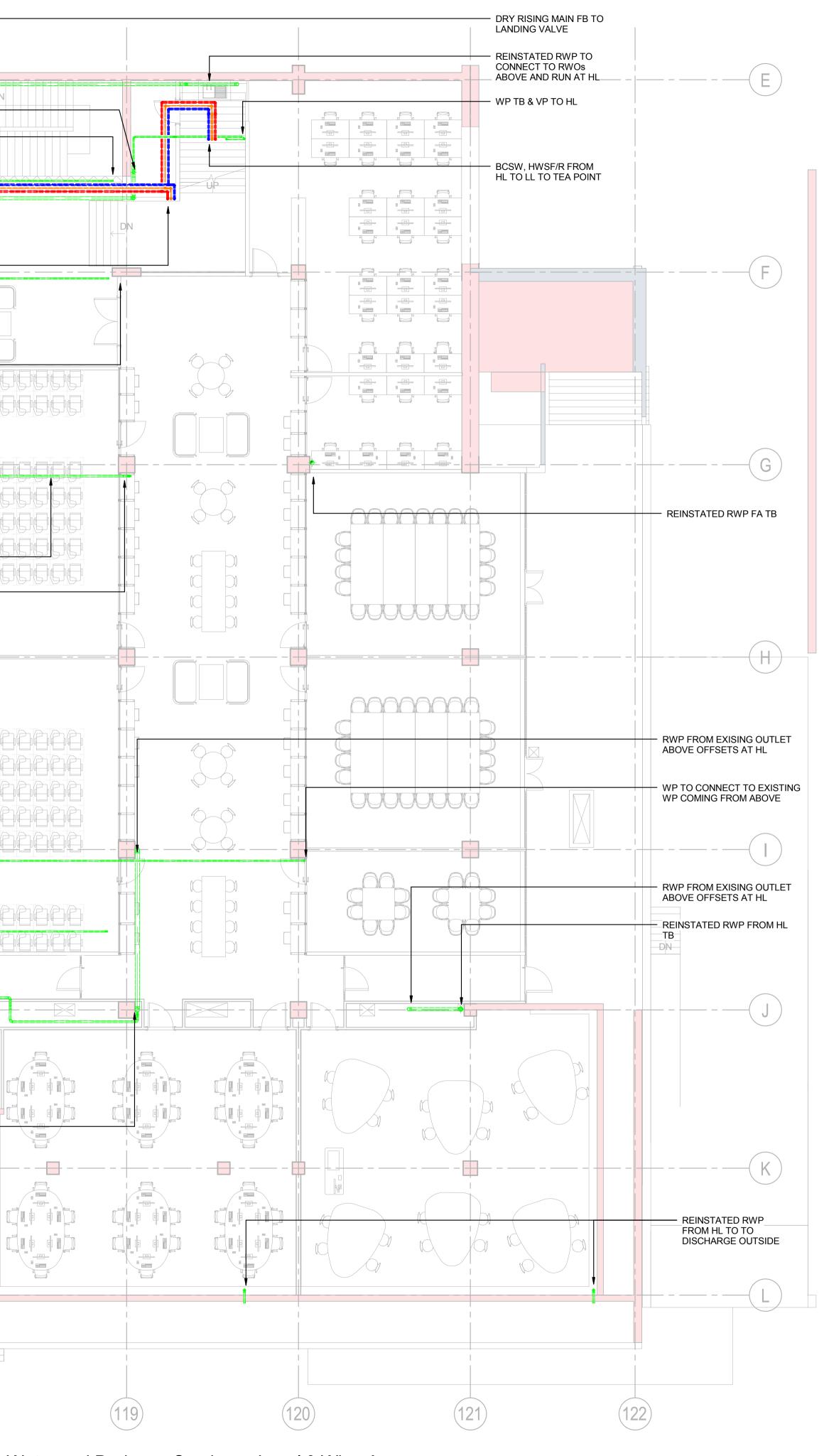


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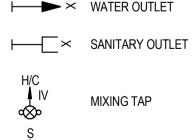
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TYPES OF WORK DETAILED ON THIS DRAWING <u>CONSTRUCTION.</u> 1. WORKING AT HEIGHT 2. LIFTING HEAVY EQUIPMENT		
3. WORKING ADJACENT TO POTENTIALLY LIVE SERVICE 4. HANDLING CHEMICAL PRODUCTS 5. WORKING IN CONFINED SPACES 6. PRESENCE OF ASBESTOS	S	
MAINTENANCE/CLEANING/OPERATION. 1. HANDLING CHEMICAL PRODUCTS 2. WORKING AT HEIGHT 3. WORKING ADJACENT TO POTENTIALLY LIVE SERVICE	s	
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1. PRESENCE OF LIVE SERVICES 2. PRESENCE OF ASBESTOS 3. WORKING AT HEIGHT 4. LIFTING HEAVY EQUIPMENT		
5. PRESENCE OF FLOOR OPENINGS 6. ALWAYS SAFELY ISOLATE BEFORE COMMENCING AN Notes	YWORKS	
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1. THIS DRAWING IS TO BE REA OTHER DISCIPLINES, DRAWIN SPECIFICATIONS, LEGENDS A	IGS, SCHEDULES AND	
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<ol> <li>UNLESS OTHERWISE STATED MILLIMETRES.</li> <li>DO NOT SCALE FROM THIS D</li> </ol>		
6. DIMENSIONS TO BE CHECKED PUT IN HAND OR PREFABRIC	O ON SITE BEFORE ANY WORK	
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ORDINATION OF THE SERVIC OTHER SERVICES DRAWINGS		
<ol> <li>FINAL ACCESS AND SETTING AGREED BETWEEN THE ARCI 10. THE PROJECT NOTES ARE TO</li> </ol>	HITECT AND THE CONTRACTO	R.
WITH ALL RELEVANT TECHNI 11. WHERE PUBLIC HEALTH SER	CAL SPECIFICATIONS. VICES PASS THROUGH FIRE	
COMPARTMENTATION CEILIN STRUCTURAL WALLS THE CC SLEEVE/SEAL THE OPENING		
SEALANT APPROVED BY THE 12. THE CONTRACTOR SHALL RE DRAWINGS FOR DETAILS OF	FER TO THE ARCHITECT'S	
13. STEEL/STAINLESS STEEL AND DENOTED BY THEIR INTERNA	D IRON PIPEWORK ARE L BORE SIZE.	
<ol> <li>COPPER AND PLASTIC PIPEW EXTERNAL DIAMETER.</li> <li>DRAWING HAS BEEN PRODUCT</li> </ol>		
RECORD INFORMATION AND CONTRACTOR IS RESPONSIB PRIOR TO WORKS.	VISUAL SITE SURVEYS. LE FOR VALIDATING ACCURAC	CY
16. CONTRACTOR TO PROVIDE S SERVICES ISOLATIONS PRIOR	R TO WORK COMMENCING.	
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Architect Hawkins\Brown Project UCL Institute of	Education	
Drg Title Public Health Ser	vices	
Services Water an Level 3 Wing A	nd Drainage Services	
Job No. 035833	Scale@A1 <b>1:100</b>	
Drawing No.	.XX-8000	Revision <b>P01</b>
20BW-BHE-WA-03-DR-P-		

	PIPE VALVES		PIPE INSTRUM
N N	ISOLATING VALVE (OPEN)	P	PRESSURE GAUGE
GV	ISOLATNIG VALVE (CLOSE)	Φ	TEMPERATURE GAUGE
⊠ WV	GATE VALVE	Ŷ	CONTENTS GAUGE
NRV	WHEEL VALVE	هې س	DIFFERENTIAL GAUGE
DCV	NON RETURN (CHECK) VALVE	H <sub>S</sub>	HUMIDITY SWITCH
PRV	DOUBLE NON RETURN (CHECK) VALVE		PRESSURE SWITCH
Δ	PRESSURE REDUCING VALVE		TEMPERATURE SWITCH
Я	TERMOSTATIC BALANCING VALVE	F <sub>S</sub>	FLOW SWITCH
RV RV	REGULATING VALVE	Ţ	TEMPERATURE SENSOR
RV RV	DOUBLE REGULATING VALVE	P	PRESSURE SENSOR
تکم cs	COMMISSIONING SET	F	FLOW SENSOR
CS SV	SAFETY VALVE	Ψ	HUMIDITY SENSOR
SV ₽	ANGLE SAFETY VALVE	ρ	THERMOMETER
NC ▶₩	LOCABLE VALVE (NORMALLY CLOSED)	Ŷ	PRESSURE TAPPING
NO ▶₩	LOCABLE VALVE (NORMALLY OPEN)	G	GAS METER
BV Ded	BALL VALVE	HM	HEAT METER
<b>DPCV</b>	DIFFERENTIAL PRESSURE CONTROL VALVE		WATER METER
DC FX	DRAIN COCK	- DPS -	DIFFERENTIAL PRESSURE SE
STR V	STAINER C/U	MODBUS	INTERFACE WITH EMON (ENERGY MONITORING SYST
	THERMOSTATIC RADIATOR ANGLE VALVE	PIR	MOVEMENT DETECTION
	THERMOSTATIC RADIATOR STRAIGHT VALVE		PIPE ACCESSO
	AUTOMATIC AIR VENT		FLOW ARROW
<u></u> Х' аv	AIR VENT	<b>_</b>	GRADIENT ARROW (FALL)
R	2 PORT MOTORISED VALVE	0	PIPE TO OR FROM ABOVE
B S V	2 PORT SOLENOID VALVE	с	PIPE TO OR FROM BELOW
₩ <sup>MVR</sup>	3 PORT MOTORISED VALVE (REGULATING)	•	PIPE CONNECTION BELOW
R MVD	3 PORT MOTORISED VALVE (DIVERTING)	G—	PIPE TURNS DOWN
r <del>on</del> PICV		<b>—</b>	PIPE TURNS UP/PIPE CONNE
	PRESSURE INDEPENDENT CONTROL VALVE	X	ANCHOR POINT
₹X₩	4 PORT MOTORISED VALVE	Г	BLANK END
		2	PIPE BREAK - SINGLE LINE
₹ IV X	FILL POINT	ù	PIPE BREAK - DOUBLE LINE
GLV	GLOBE VALVE	×	TUNDISH - PLAN
LV M	DRY RISER LANDING VALVE	4	TRAPPED TUNDISH - PLAN
	DRY RISER BREECHING INLET	Ý	TUNDISH - ELEVATION
		Ύι	TRAPPED TUNDISH - ELEVAT
	DOMESTIC WATER	ŀ	BIB TAP
	OUTLETS	Ÿ	HOSE UNION BIB TAP
⊢►×	WATER OUTLET	ſ	
⊢⊢Ľ×	SANITARY OUTLET		OPEN VENT



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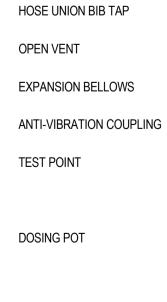
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MIXING TAP

#### **NOTATION**

0 I/s0 Pa/m0 m/s0 mm0 m.cu/s0 Pa/m0 m/s0 mm0 m/s0 mm



FLEX VVN

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EXPANSION VESSEL

PIPE INSTRUMENTS		PIPE AC
PRESSURE GAUGE		FLOW ARROW
TEMPERATURE GAUGE		GRADIENT ARF
CONTENTS GAUGE	•	PIPE TO OR FR
DIFFERENTIAL GAUGE	С	PIPE TO OR FR
HUMIDITY SWITCH	0	PIPE CONNECT
PRESSURE SWITCH	<b>G</b>	PIPE TURNS DO
TEMPERATURE SWITCH	•	PIPE TURNS UF
FLOW SWITCH	$\times$	ANCHOR POIN
TEMPERATURE SENSOR	E	BLANK END
PRESSURE SENSOR		PIPE BREAK - S
FLOW SENSOR	8	PIPE BREAK - [
HUMIDITY SENSOR	$\times$	TUNDISH - PLA
THERMOMETER	-	TRAPPED TUNI
PRESSURE TAPPING	Y	TUNDISH - ELE
GAS METER	У	TRAPPED TUNI
HEAT METER	ł	BIB TAP
WATER METER	Y	HOSE UNION B
DIFFERENTIAL PRESSURE SENSOR	ſ	OPEN VENT
INTERFACE WITH EMON (ENERGY MONITORING SYSTEM)	FLEX IVN	EXPANSION BE
MOVEMENT DETECTION	M	ANTI-VIBRATIO
PIPE ACCESSORIES	O <sup>TP</sup>	TEST POINT
FLOW ARROW	Ž	
GRADIENT ARROW (FALL)		DOSING POT
PIPE TO OR FROM ABOVE	Q+∞ X	
PIPE TO OR FROM BELOW		

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 $\bigtriangledown$ 

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DF

Б

DW

EXPANSION VESSEL

WC

SINK

HAND BASIN

DISHWASHER

SANITARY APPLIANCES

WATER DISPENSER (BOILING AND CHILLED)

PIPE TURNS UP/PIPE CONNECTION	

TRAPPED TUNDISH - ELEVATION

FLOW ARROW
GRADIENT ARROW (FALL)
PIPE TO OR FROM ABOVE
PIPE TO OR FROM BELOW
PIPE CONNECTION BELOW
PIPE TURNS DOWN
PIPE TURNS UP/PIPE CONNECTION
ANCHOR POINT
BLANK END
PIPE BREAK - SINGLE LINE
PIPE BREAK - DOUBLE LINE
TUNDISH - PLAN
TRAPPED TUNDISH - PLAN
TUNDISH - ELEVATION
TRAPPED TUNDISH - ELEVATION
BIB TAP
HOSE UNION BIB TAP
OPEN VENT
EXPANSION BELLOWS
ANTI-VIBRATION COUPLING
TEST POINT

#### PIPEWORK TEES 45° BRANCH

45 BRANCH
45° CROSS
BOSS CONNECTION
CROSS TEE
DOUBLE LONG RADIUS BRANCH

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### PIPEWORK CLEANOUT

ACCESS POINT FITTING
RODDING EYE IN RISER
RODDING EYE TO FALL
UPRIGHT RODDING EYE

## **CONNECTIONS**

	FLANGED UNION
222	FLEX CONNECTION
ĸ	WELD NECK FLANGE
	THREADED FLANGE
ιļι	SCREWED UNION

## PIPE CONNECTION

$\frown$	OVERSHOOT

CONNECTION •

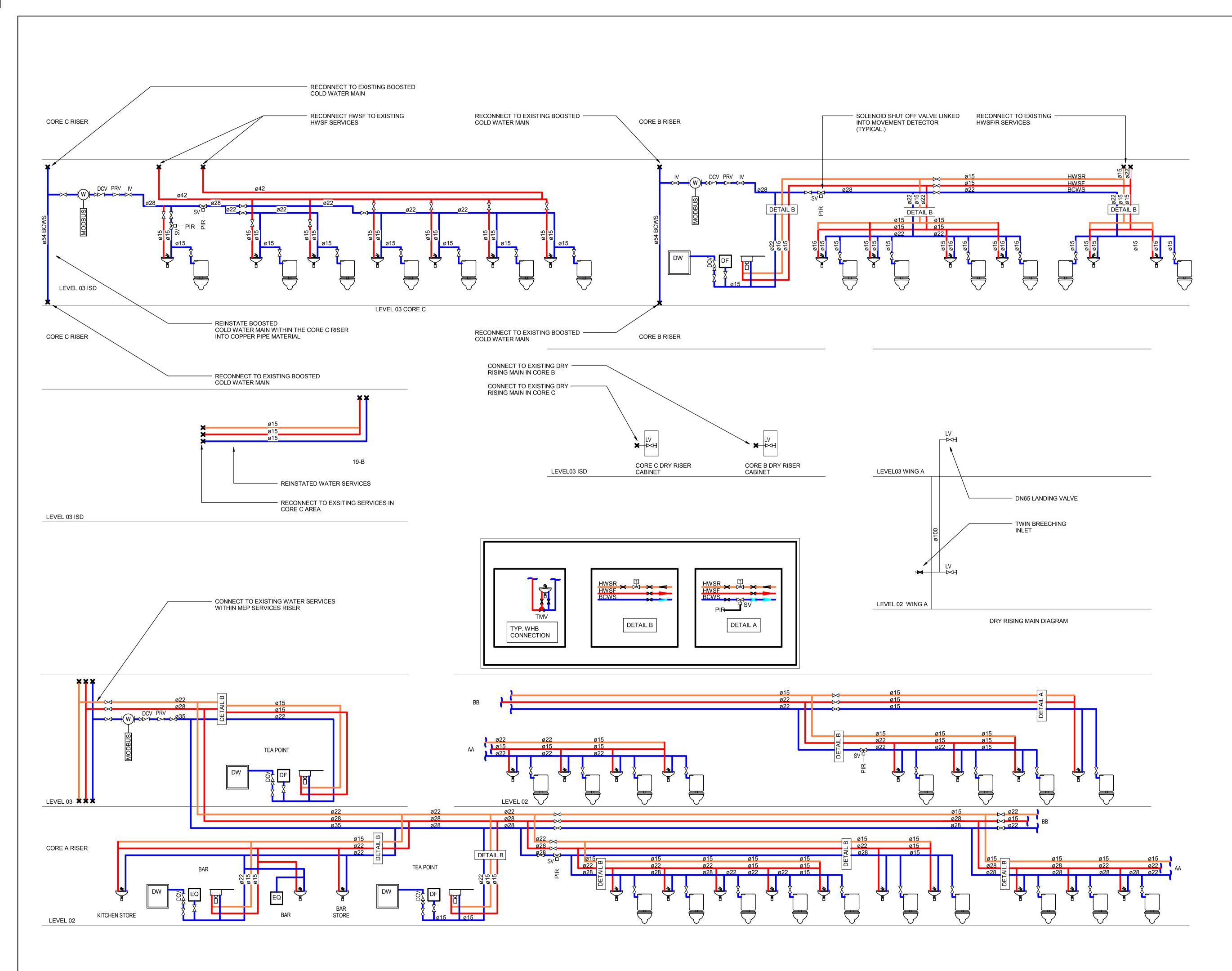
#### PIPEWORK REDUCERS

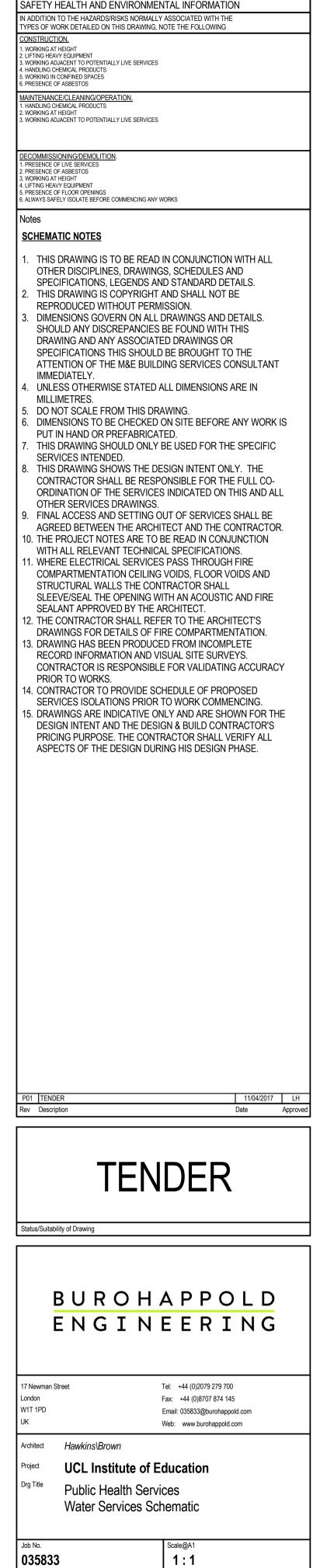
CONCENTRIC REDUCER  $\bowtie$ ECCENTRIC REDUCER Ы

# <u>HVAC PARTS</u>

CAP END

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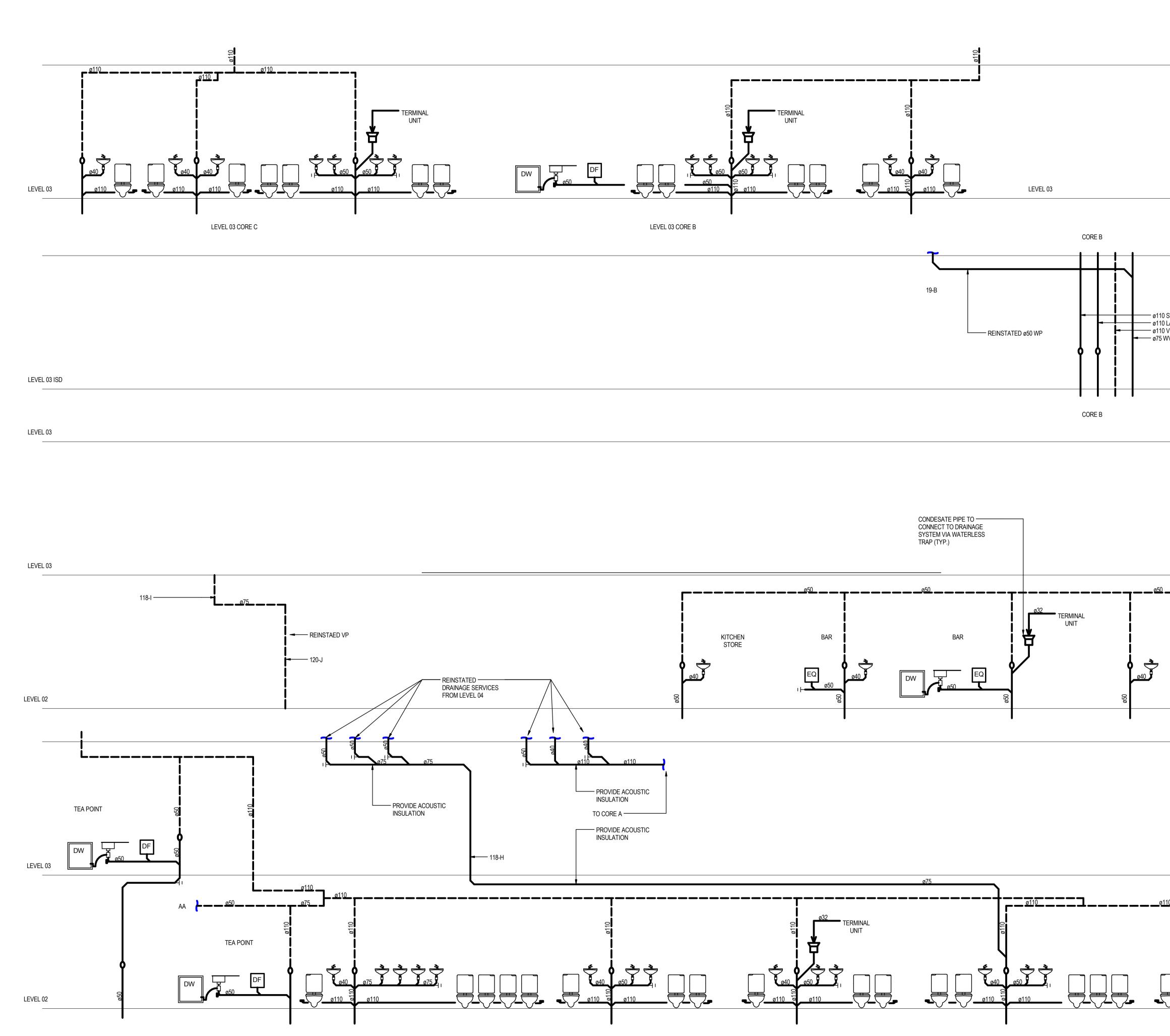
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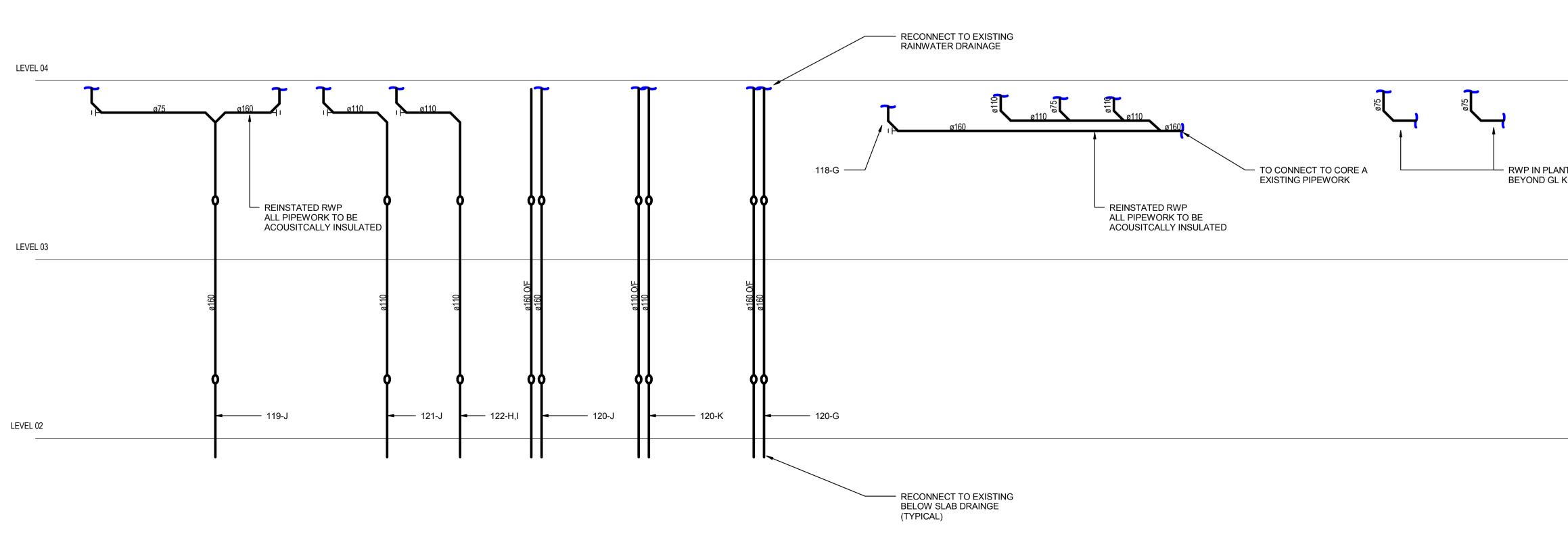
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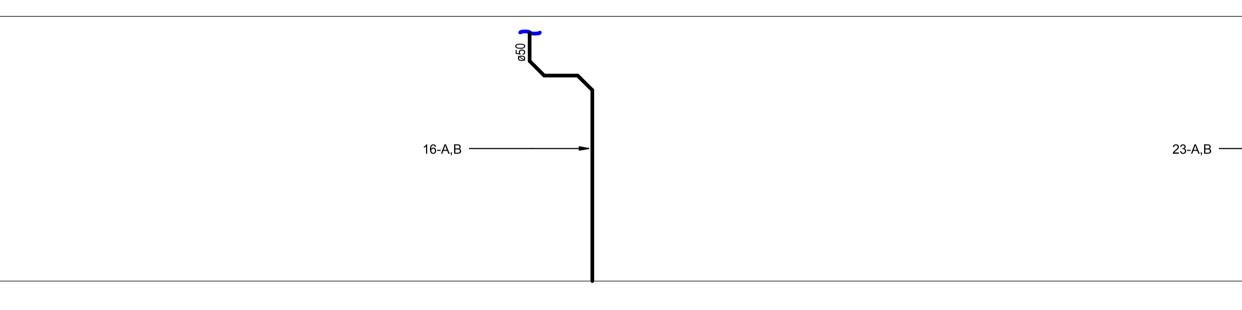
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	6. ALWAYS SAFELY ISOLATE BEFORE COMMENCING ANY WORKS Notes
	<ol> <li>THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DISCIPLINES, DRAWINGS, SCHEDULES AND SPECIFICATIONS, LEGENDS AND STANDARD DETAILS.</li> </ol>
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	UK Web: www.burohappold.com
	Architect Hawkins\Brown
	Project UCL Institute of Education
	Drainage Services Schematic
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	Rev       Description       Date       Approved         TENDER         TENDER         Status/Suitability of Drawing         BUROHAPPOLD ENGINEERING         17 Newman Street         Tel: +44 (0)2079 279 700         London         Fax: +44 (0)2079 279 700         London         Veb: www.burohappold.com         Web: www.burohappold.com         Web: www.burohappold.com         Architect         Hawkins\Brown         Project       UCL Institute of Education         Dra Tite
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	Rev       Description       Date       Approved         TENDER         Status/Suitability of Drawing         BUROHAPPOLD ENGINEERING         17 Newman Street         Tel: +44 (0)2079 279 700         London         Fax: +44 (0)2079 279 700         London         Fax: +44 (0)8707 874 145         WIT 1PD         London         Veb: www.burohappold.com         VCL Institute of Education         Project       UCL Institute of Education         Drg Title         Public Health Services
	Rev       Description       Date       Approved         TEINDER         Status/Suitability of Drawing         BUROHAPPOLD ENGINEERING         BUROHAPPOLD ENGINEERING         IT? Newman Street         Tel: +44 (0)2079 279 700         London         Fax: +44 (0)2079 279 700         London       Fax: +44 (0)2079 770 874 145         W1T 1PD       Email: 035833@burohappold.com         UK       Web: www.burohappold.com         VK       Web: www.burohappold.com         Org Title       Public Health Services         Rainwater Drainage Services Schematic         Job No.       Scale@A1         035833       1: 1         Drawing No.       Revision
	Rev       Description       Date       Approved         TENDER         Status/Suitability of Drawing         BUROHAPPOLD ENGINEERING         Italus/Suitability of Drawing         Italus/Suitability of D