

ctric	c Wate	r Hea	ters Sche	edule				Notes		
5)	Rating (kW)		Watar ba	Comments				This Drawing is an instrument of service and s the property of Align Property Partners Ltd cop may not be reproduced or copied in any form. used for the construction. enlargement or alter		
	3.	2		Water hea	ater to be	mounted in	n classroom store.	building authori Contra	g or area other than the said project with sation of the issuing office. ctors shall verify and be responsible for	
td or	equal an	nd appro	oved.					dimens discrep any wo	sions and conditions and shall report an pancies to the issuing office before proce ork. Drawings shall not be scaled.	
ente with	d accesso n manufao	ory kit. \ cturers \$	Nater heater SF4 Unvente	to be install d Kit.	ed with fu	sed spur t	imeclock set to operate			
E	Extract	Fan S	Schedule					NOTE	<u>.S</u> All pipework in ceiling voids, flo	
del		Dut (m³/	y s)			Comment	İs		enclosures to be fully insulated accordance with BS 5422. Insu	
)E1-	ES	0.055 55P	6 @ Pa		En	abled via l	PIR's		labels to BS1710.	
uette SEL\	e /	75			E	nabled via	PIR	2.	All fittings, plant and equipment installed, regulated and tested	
uette SEL\	e /	75			E	nabled via	PIR		instructions.	
ove oof (d. Extract Cowl Syst	t fans El tem, cor	F02 & EF03 t mprising of C	to be manufa owl Assemb	actured by	y Vent-Axia), Weather	a or equal and approved Apron WA160 and Adaptor	3.	All valves to be fully accessible provided with identification labe	
on se	ets and 1	no. mar	nufacturers 1	00mm termi	nal conne	ctor and g	rille sets.	4.	Drain valve and air vents to be all low and high points in the sy	
pe	Grille	e Sch	edule	Size			Comments	5	respectively.	
	rate		(m³/s)	(WXH) r	nm 50	To be sup	plied with manufacturers side	-	for this project.	
aac	rate		0.015	150x1	50	To be sup	plied with manufacturers side	6.	for the supply, installation, test commissioning of the proposed	
aac	rate		020	150×14	50	To be sup	plied with manufacturers side		water services as detailed opp Contractor shall allow for all ter	
-99-	or		0.020	150×16	50	To be sup	entry plenum box plied with manufacturers side	-	classroom furniture / sanitary v Contractor shall also allow for s	
ore	equal and	approv	ed.	150213	50		entry plenum box	-	and removal of redundant dom services.	
								7.	All exposed domestic services be in chrome plated copper tub	
_	Duty (m ³ /s)		Size	m		Co	omments	-	1057 (old table "x"). all fittings non-dezincifiable and comply v	
	0.055		200 x 20	0	C/w side	e plenum b	ox and bird mesh guard.		all capillary fittings to have lead rings as Yorkshire potable rang	
ol L	td or equ	al and a	pproved.					8.	All hot and cold water outlet co be fitted with a 'ball-o-fix' type s	
at	Recov	ery Al	HU Scheo	dule				9.	valves. The Contractor shall include w	
Гуре	e - R L Init			1	Duty (I/s) 0 @ 65P;		L x W x H) mm	_	tender the full chlorination of al domestic hot and cold water in	
nt-Ay	kia Ltd or	equal a	nd approved				405 X 240 X 100	10.	with BS6700 / BS8558 / BS EN All final connections to WHB/si	
twor	k back to	steel fra	ame / roof str	ructure detai	ils of all si	upports to	be detailed on ductwork		15mm and hard piped. No flexi connections to be used.	
Cow	/I System	, compr	ising of Cowl	Assembly V	VB160, W	/eather Ap	ron WA160 and Adaptor	11.	The Contractor shall include in for the supply, installation, test	
F	lybrid	Unit S	chedule						commissioning of the proposed services as detailed on this dra	
Flov n3/s	w Rate	L	ength (mm)		Width (n	nm)	Height (mm)		which shall be site checked be fabrication of the ventilation du	
0.17			1250		950		359	12.	All ductwork, fittings and support	
0.17			1250		950		359		Specification for Sheet Metal D	
or e ns, le unte	equal and ouvres ar d controll	approv nd eggc ler and 2	ed. rate grilles de XB-HCO2 CO	etailed on thi	is drawing erature s). ensor.		13.	Flexible ductwork - Low pressu ductwork shall only be used for of 300mm where connecting to	
	THW	Coil S						P2	boxes.	
ut (I	kW)				Comm	nents		14.	Manually operated volume con shall be supplied and installed locations indicated opposite an	
D 22	2°C ∆t			Associated	d with Hyt	orid Ventila	tion Unit	K	the opposed blade type for rec ductwork and butterfly type for	
nd ap	oproved.								ductwork. All dampers shall be with an approved locking devic positions of open - half - shut c	
F	Roof C	owl S	chedule		\frown			-	quadrant.	
	Duty (I	m3/s)	Size (LxW	/xH) mm		(Comments		Damper size shall not be less t size where thermal, insulation dampers shall have extended s	
	0.1	17	900 x 62	0 x 340	The roc	of opening	size between upstand to be	-	mounting lugs in the quadrant a metal stools to make the control	
	0.1	17	900 x 62	0 x 340	The roc	of opening	size between upstand to be	15.	the insulation. Service identification shall be r	
and and a	approved ed to be a	l. agreed	with Architec	t prior to ord	erina.				which shall comprise colour co identification generally to DW1	
e the	cowls pr	ovide a	weatherproc	f enclosure.				P2	of services.	
IVI€	Line Siz	ig Sta	Valve Size	Flow Rate	Cirra I	(1-D-)		16.	PROGRAMME SEQUENCE A	
	(mm))	(mm)	(kg/s)	Signal	(кРа)		$\left\{ \right.$	The works shall be carried out period indicated in the main co	
32	40		40	0.17	1.	9	3.462	$\left\{ \right\}$	allowance for any premium or o hours necessary to complete th	
5	20		20	0.12	0.	8	1.892	17.	TESTING AND COMMISSION	
5	25		25	0.25	1.	1	2.493	K	All new mechanical services sh tested and commissioned inclu	
Crai	ne Fluid S uitable for	Systems r standa	or equal and	d approved ans.	and shall	be based o	on the single unit D931 and		 Heating System Boiler and Hot Water Plant 	
				20) INS	TRUCTIO	N IN THE USE OF	1	The commissioning shall gene	
					INS	TALLATIO	NS		accordance with the relevant C commissioning codes, the cont include for all test instruments	
ſy					On o mec give	completion hanical se to the em	rvices the Contractor shall ployees designated		and supervision / labour require	
					repr staf	esentative f, detailed i	s in charge together with key instructions and training in the	18.	BUILDERS WORK	
					ope insta Lan	ration and allation in a ding M&E	control of the entire services accordance with the Soft checksheet to be issued by		all builders work associated wir mechanical services installation	
					Alig	n Property	Partners.		The Contractor shall allow for r	
tore			i		The reco train	Contracto ords and ha oers and th	r shall complete training ave them signed by the re personnel receiving the		frames after the installation of mechanical services.	
					trair	ning.		19.	SUMMARY OF TENDER	
		Ω/C	130	2	I. <u>DRA</u> The	tender dra	awings are representative of		The Contractor will be required complete and return with the te	
		60	54		the the	work to be drawings a	done. it should be noted that are essentially diagrammatic		services included in the schem	
)		Cla	assro	om	loca build	tion of the ding struct	services relating to the ure or other building services.			
					The	refore the	Contractor shall make			
ł	p				insta BSF	allation dra RIA guide 'l	wings as defined within BG6/2014' - A Design			
	0/03 6.28 Stor	39A 3 re		0/038A 6.28 Store	Frar	RATING	Building Services.	P2	Contract Issue - ASHP omission, JB gas boiler addition	
)			1 [<u>OPE</u> MAN <u>DR</u> A	NUALS AN WINGS	ID AS INSTALLED	P1 Ver. [Fender Issue JB Details Author & Date	
		$\cap / $	720		The	Contracto	r shall be responsible for ating and maintenance		alianproper	
		60/1	500		prov man insta	iuals and a allation. Th	as installed drawings for the e documentation shall be	Mour	It View, Standard Way, Northallerton, No DL6 2YD Tel: 01609 797373	
			2001		prov com	vided at lea	ast 14 days before practical	Client BARN Project	ISLEY MBC	
			a331(The shal	operating I be provid	and maintenance manuals led in accordance with CIBSE	Birkw	ood Primary School	
					/ BS	RIA guida	nce.	Mech Propo	anical Building Services - Zone osed Layout	
	<u></u>	0		. <u></u>				Purpose Contr	act Issue	
								1:50 Original	JB CR Size Date Date	
								A0 Drawing BC22	03/23 03/23 Number 202 10-APP-XX-XX-DR-M-601	

wing is an instrument of service and shall remain erty of Align Property Partners Ltd copyright ©. It be reproduced or copied in any form. It shall not be the construction, enlargement or alteration of a or area other than the said project without the ation of the issuing office. ors shall verify and be responsible for all ons and conditions and shall report any ncies to the issuing office before proceeding with

All pipework in ceiling voids, floor ducts and enclosures to be fully insulated in accordance with BS 5422. Insulated pipework shall be fitted with identification abels to BS1710.

All fittings, plant and equipment to be nstalled, regulated and tested in accordance with the manufacturers printed nstructions.

All valves to be fully accessible and provided with identification labels.

Drain valve and air vents to be provided at all low and high points in the system espectively.

Press-fit pipework must not be considered or this project.

The Contractor shall include in his tender or the supply, installation, testing and commissioning of the proposed hot and cold water services as detailed opposite. The Contractor shall allow for all terminations to he water outlets on the proposed classroom furniture / sanitary ware. The Contractor shall also allow for stripping out and removal of redundant domestic services.

All exposed domestic services pipework to be in chrome plated copper tube to BS EN 1057 (old table "x"). all fittings to be non-dezincifiable and comply with BS864. Il capillary fittings to have lead free solder ings as Yorkshire potable range.

All hot and cold water outlet connections to e fitted with a 'ball-o-fix' type servicing alves.

The Contractor shall include within his ender the full chlorination of all new domestic hot and cold water in accordance with BS6700 / BS8558 / BS EN 806.

All final connections to WHB/sinks shall be 5mm and hard piped. No flexible connections to be used.

he Contractor shall include in his tender or the supply, installation, testing and ommissioning of the proposed ventilation services as detailed on this drawing. The drawing shows the tender stage proposals which shall be site checked before abrication of the ventilation ductwork.

All ductwork, fittings and supports shall be to the requirements of DW144 - HVAC Specification for Sheet Metal Ductwork.

Flexible ductwork - Low pressure flexible ductwork shall only be used for a maximum f 300mm where connecting to plenum oxes.

Manually operated volume control dampers shall be supplied and installed in the ocations indicated opposite and shall be of he opposed blade type for rectangular ductwork and butterfly type for circular ductwork. All dampers shall be complete with an approved locking device adjustment positions of open - half - shut on the quadrant.

Damper size shall not be less than the duct size where thermal, insulation occurs the dampers shall have extended shafts and nounting lugs in the quadrant and sheet netal stools to make the control flush with he insulation.

Service identification shall be provided which shall comprise colour coding and dentification generally to DW144 at sufficient locations to ensure no confusion f services.

PROGRAMME SEQUENCE AND TIMING The works shall be carried out within the period indicated in the main contract programme of works and make due allowance for any premium or overtime

nours necessary to complete the works. **TESTING AND COMMISSIONING**

All new mechanical services shall be fully ested and commissioned including

The commissioning shall generally be in accordance with the relevant CIBSE commissioning codes, the contractor shall nclude for all test instruments, equipment and supervision / labour required.

BUILDERS WORK

The Contractor shall make full provision off Il builders work associated with the mechanical services installation.

The Contractor shall allow for making good edecorating of walls / ceilings / doors and rames after the installation of the nechanical services.

The Contractor will be required to fully complete and return with the tender the Summary of tender" for the mechanical services included in the scheme.

P2	Contract Issue - ASHP omission, gas boiler addition	JB	CR	RT
P1	Tender Issue	JB	CR	RT
/er.	Details	Author & Date	Checke d &	Approv' d &
	diap	ROPF		Date

CHIGO PROPERT PARTNERS View, Standard Way, Northallerton, North Yorkshire, DL6 2YD Tel: 01609 797373

LEY MBC

Birkwood Frimary School								
Extension								
Drawing Title								
Mechanical Building Services - Zone 1 Proposed Layout								
Purpose								
Contract Issue								
Scale	Drawn	Checked	Approve	d				
1:50	JB	CR	RT					
Original Size	Date	Date	Date					
A0	03/23	03/23	03/23					
Drawing Number				Version				

P2