



Kitchen Design Pack

Need changes to your plan?

If you require any changes to your kitchen plan or, for any further assistance regarding this plan, please contact your local depot using the contact information below:

Howdens Joinery - Watford
Unit 3, New Builds Estate, Olds Approach, Tolpits Lane Watford WD18 9TD

Tel: 01923 772 967

Plan: 72395780001

Designer: CHANDAN

Range: Clerkenwell Gloss White

Please Note

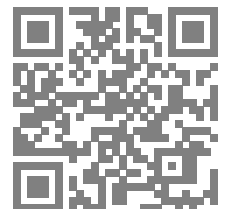
Drawings and images contained in this pack are computer representations indicating layout.

Please check that all room dimensions detailed are correct.

Consult the quotation for a list of items included.

Please also ensure a Gas Safe registered engineer is engaged with regards to any gas appliances.

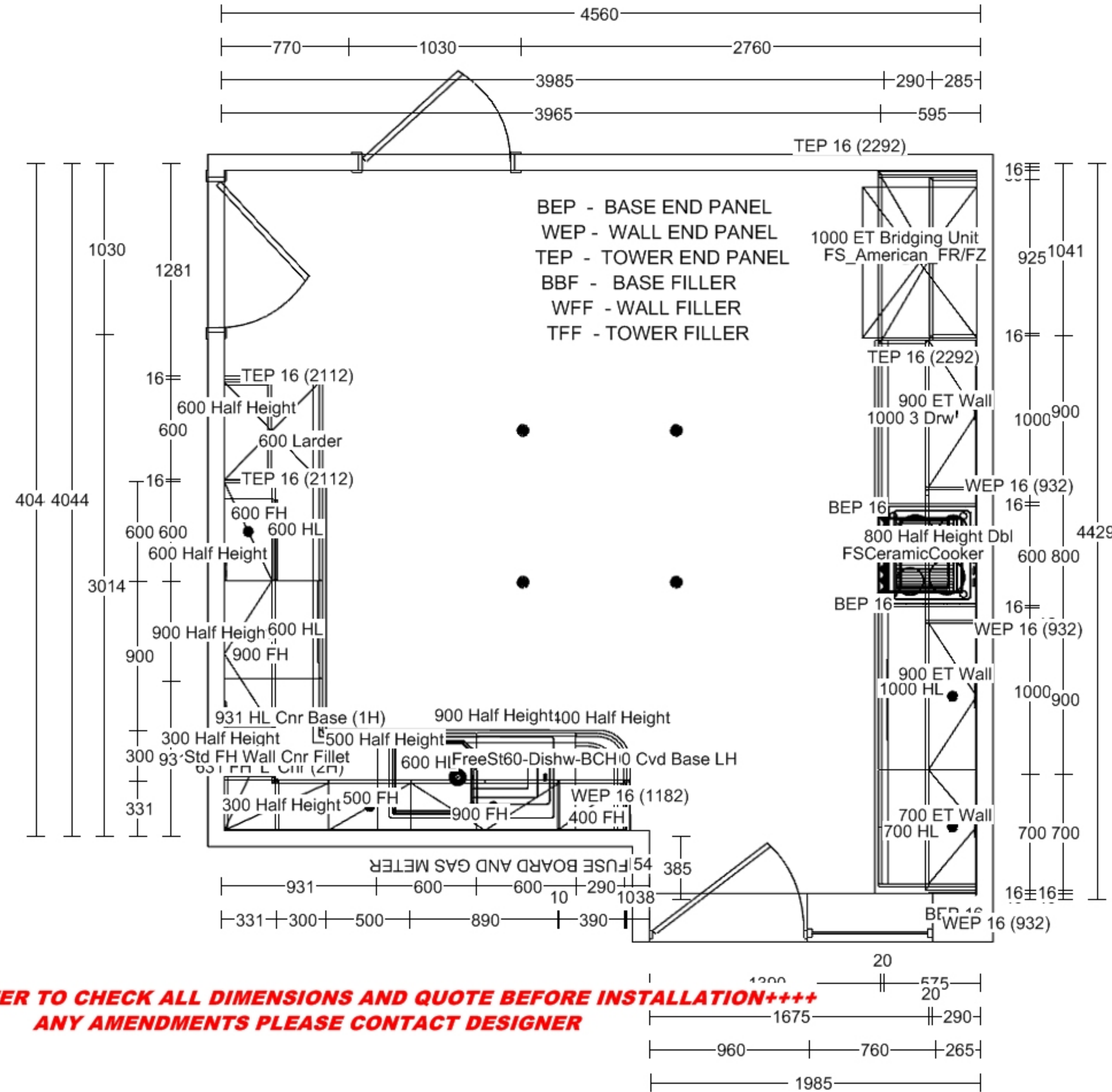
Scan QR to view
this plan online.











	Please consult the quotation for a list of items to be supplied. The drawing is a computer representation of layout	Cad Plan No : 72395780001	Customer : PAUL MCGUINESS
	and dimension, details should be checked by the installer/builder. Please also ensure a Gas Safe registered	Designed By : CHANDAN	Phone :
	engineer is engaged with regards to any gas appliances. Check with your installer/builder for more information.	Designed On : 8/7/19	Range Designed : Clerkenwell Gloss White

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Contractors to check all dimensions on site. Only figured dimensions are to be worked from. The Consulting Engineer is to be informed of any discrepancies before proceeding with the work.


- NOTES**
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH ALL DOCUMENTS LISTED THERE IN.
 2. SYSTEM BOILER TYPE: WORCESTER GREENSTAR : SYSTEM 24kW GAS FIRED CONDENSING BOILER.
 3. RADIATORS TO BE STEEL PANEL TYPE: CARADON STELRAD VITA PLAN K1 OR K2. CONTRACTOR SHOULD CHECK THAT THERE IS ADEQUATE INSTALLATION SPACE BEFORE ORDERING RADIATORS.
 4. THERMOSTATIC RADIATOR VALVES (TRVs) TO BE INSTALLED TO ALL RADIATORS, EXCEPT FOR ROOM WITH PROGRAMMABLE THERMOSTAT. TYPE: DRAYTON TRV4 CLASSIC.
 5. PROGRAMMABLE ROOM THERMOSTATS TO BE INSTALLED IN ROOM WHERE RADIATOR DOES NOT HAVE TRV's FITTED BUT JUST STANDARD MANUAL WHEEL HEAD VALVE FOR ON/OFF OPERATION TYPE: DANFOSS TPONE-M (MAINS POWER CONNECTION).
 6. AUTOMATIC BYPASS VALVE TO BE FITTED BETWEEN FLOW 7 RETURN IN BOILER COMPARTMENT TYPE: DRAYTON AUTOMATIC BYPASS VALVE 22mm.
 7. ADDITIONAL 12 LITRE EXPANSION VESSEL TO BE INSTALLED CLOSE TO BOILER ON HEATING RETURN PIPEWORK AND SET TO SAME PRESSURE AS SYSTEM BOILER EXPANSION VESSEL.
 8. TOWEL RAILS IN BATHROOM TO BE ELECTRICALLY HEATED. TYPE MHS RADIATOR LOUISA 900 / 600 WATT AS SCHEDULED.
 9. A HEATING SYSTEM PRESSURISATION UNIT TO BE INSTALLED AT HIGH LEVEL IN BOILER COMPARTMENT. TYPE: GRUNDFOS PHT N-SERIES N130.

REV.	DATE	DESCRIPTION
A	18-07-19	DRAIN-OFF ADDED IN FAMILY ROOM FOR HEATING PRESSURISATION UNIT MODEL REVISED.

PROJECT
HANOVER HOUSE
ST JOHNS WOOD
LONDON NW8

TITLE
FLAT 20, 3RD FLOOR
PROPOSED HEATING

CLIENT
CANADIAN HIGH COMMISSION



Hannaford Upright
BUILDING SERVICES CONSULTING ENGINEERS
STUART HOUSE
80 - 82 MAYBURY ROAD
WOKING SURREY GU21 5JH
TEL: 01483 730221 FAX: 01483 773970

SCALE	DRAWING No.	REV.
1:50 @A1		
DATE	10/06/19	
DRAWN	M7/HH	
CHECKED	RUG	
	3366-M-01-FL20	A

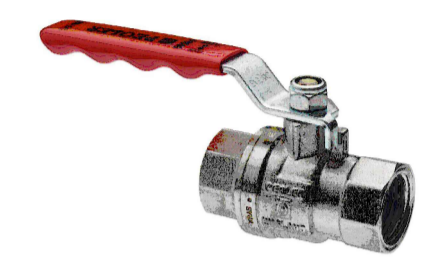
RADIATOR SCHEDULE

Rad. reference	No. off	Height (mm)	Length (mm)	Rad. mult	Output (W)	Radiator type
R1	1	450	800	1	999	CARADON STELRAD Vita Plan K2 Radiators
R2	1	450	800	1	999	CARADON STELRAD Vita Plan K2 Radiators
R3	1	450	800	1	999	CARADON STELRAD Vita Plan K2 Radiators
R4	1	450	800	1	999	CARADON STELRAD Vita Plan K2 Radiators
R5	1	450	800	1	999	CARADON STELRAD Vita Plan K2 Radiators
R6	1	450	800	1	999	CARADON STELRAD Vita Plan K2 Radiators
R7	1	450	600	1	750	CARADON STELRAD Vita Plan K2 Radiators
R8	1	450	600	1	750	CARADON STELRAD Vita Plan K2 Radiators
R9	1	450	600	1	750	CARADON STELRAD Vita Plan K2 Radiators
R10	1	450	800	1	999	CARADON STELRAD Vita Plan K2 Radiators
R11	1	600	1600	1	2563	CARADON STELRAD Vita Plan K2 Radiators
KSH1	1	105	500	1	1500	KPH 1500 Classic Kitchen Plinth Heater (Hydronic)
TR1	1	1160	580	1	900	MHS RADIATORS Louisa Towel Rail (ELECTRICAL)
TR2	1	1160	580	1	900	MHS RADIATORS Louisa Towel Rail (ELECTRICAL)
TR3	1	1160	580	1	900	MHS RADIATORS Louisa Towel Rail (ELECTRICAL)

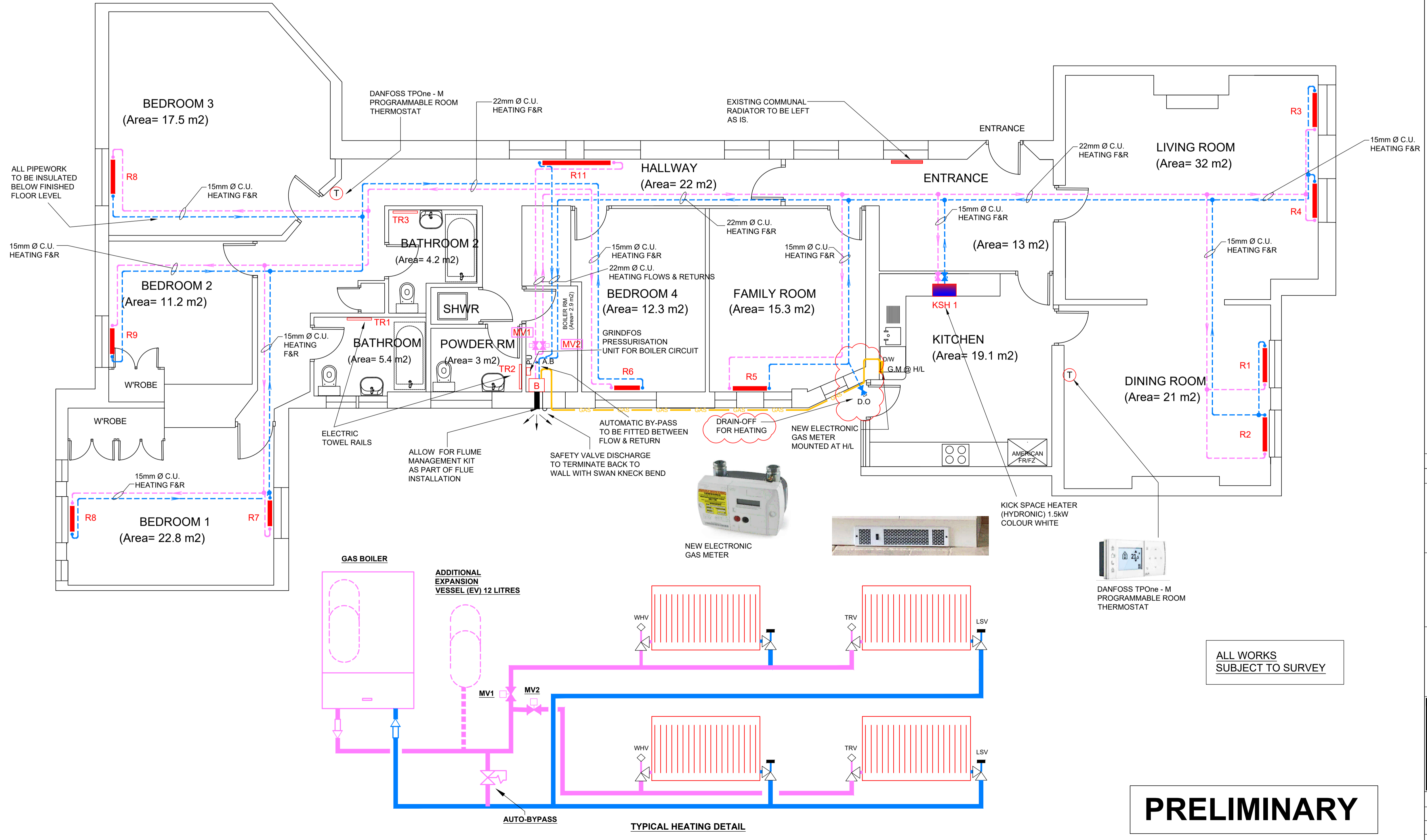
- ABBREVIATIONS**
- DO = DRAIN-OFF
 - B = BOILER
 - MV = 2-PART MOTORISED VALVE
 - R.1 = RADIATOR
 - TR.1 = ELECTRIC TOWEL RAIL
 - RS = ROOM THERMOSTAT
 - TRV = THERMOSTATIC RADIATOR VALVES
 - Ø = NOMINAL DIAMETER PIPE COPPER PIPE
 - CU = COPPER PIPE
 - B.O.E = BOTTOM OPPOSITE ENDS
 - MV = MOTORISED VALVE
 - T.B.O.E = TOP BOTTOM OPPOSITE ENDS
 - L.S.V = LOCKSHIELD VALVE
 - A.B = AUTOMATIC BYPASS VALVE
 - PU = PRESSURISATION UNIT
 - EV = EXPANSION VESSEL
 - Ⓟ = PROGRAMMABLE ROOM THERMOSTAT
 - WHV = RADIATOR WHEEL HEAD VALVE
 - I.V = FULL BORE LEVER ISOLATING VALVE
 - KSH = KICK SPACE HEATER
 - LTHWF = LOW TEMPERATURE HEATING FLOW & RETURN
 - I.V. X = LEVER ISOLATING VALVE



GAS BOILER



LEVER HANDLED ISOLATING VALVE



ALL WORKS SUBJECT TO SURVEY

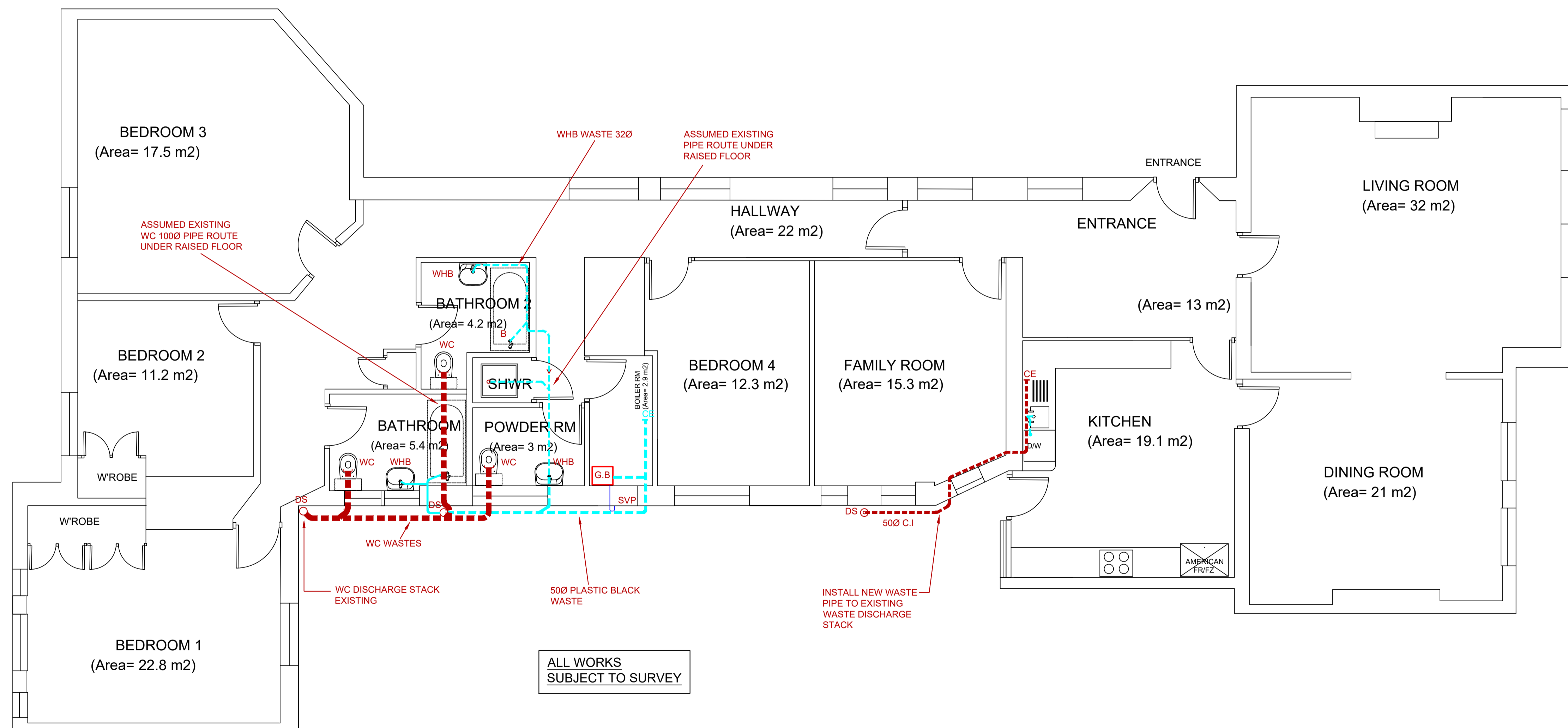
PRELIMINARY

TYPICAL HEATING DETAIL

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NOTES

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2. NEW GAS-FIRED BOILER CONDENSATE DISCHARGE TO CONNECT TO INTERNAL WASTE PIPE TO CONNECT TO NEW PLASTIC WASTE BRANCH TO DISCHARGE STACK.
3. CONTRACTOR TO ALLOW FOR NEW INTERNAL & EXTERNAL WASTE PIPES BACK TO EXISTING DISCHARGE STACK POSITIONS.



PRELIMINARY

REV.	DATE	DESCRIPTION
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PROJECT
HANOVER HOUSE
ST JOHNS WOOD
LONDON NW8

TITLE
FLAT 20, 3RD FLOOR
PROPOSED ABOVE GROUND
DRAINAGE

CLIENT
CANADIAN HIGH COMMISSION



Hannaford Upright
BUILDING SERVICES CONSULTING ENGINEERS
STUART HOUSE
80 - 82 MAYBURY ROAD
WOKING SURREY GU21 5JH
TEL: 01483 730221 FAX: 01483 773970

SCALE	DRAWING No.	REV.
1:50 @A1		
DATE		
10/06/19		
DRAWN		
MT/HH		
CHECKED		
RUG		

3366-PH-01

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NOTES
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- LEGEND OF SYMBOLS**
- NEW MK DOUBLE 13AMP SWITCHED SOCKET + USB CHARGER OUTLET TO BE INSTALLED AT 450mm AFFL
 - NEW DOUBLE 13AMP SWITCHED SOCKET
 - FUSED CONNECTION UNIT
 - DIGITAL / TERRESTRIAL & SATELLITE CABLE OUTLET UNIT AT 450mm AFFL
 - KICK SPACE HEATER
 - 20AMP ISOLATING SWITCH AT HIGH LEVEL
 - FUSED CONNECTION UNIT AT 450mm AFFL FOR ELECTRIC TOWEL RAIL
 - ISOLATOR TO SERVE SOCKET OUTLET BELOW
 - ELECTRIC METER (EXISTING)
 - NEW CONSUMER UNIT
 - ELECTRIC TOWEL RAIL
 - SHAVER SOCKET
 - BG DOUBLE SWITCHED SOCKET + WIFI CHARGER
 - ELECTRIC EXTRACT FAN
 - MAINS 24 VOLT LINKED SMOKE DETECTOR/SOUNDER UNITS WITH BATTERY/BACK UP AS LITHIUM RECHARGEABLE CELLS Ref: E12110E (CEF)
 - WHITE 85db(A) OPTICAL HEAT/SMOKE DETECTOR WITH MULTI LINK CAPABILITY AS AICO
 - E1100 MRF (CEF) SMOKE/HEAT DETECTOR WIRELESS INTERCONNECTION UNIT E1100 MRF AS AICO

REV	DATE	DESCRIPTION

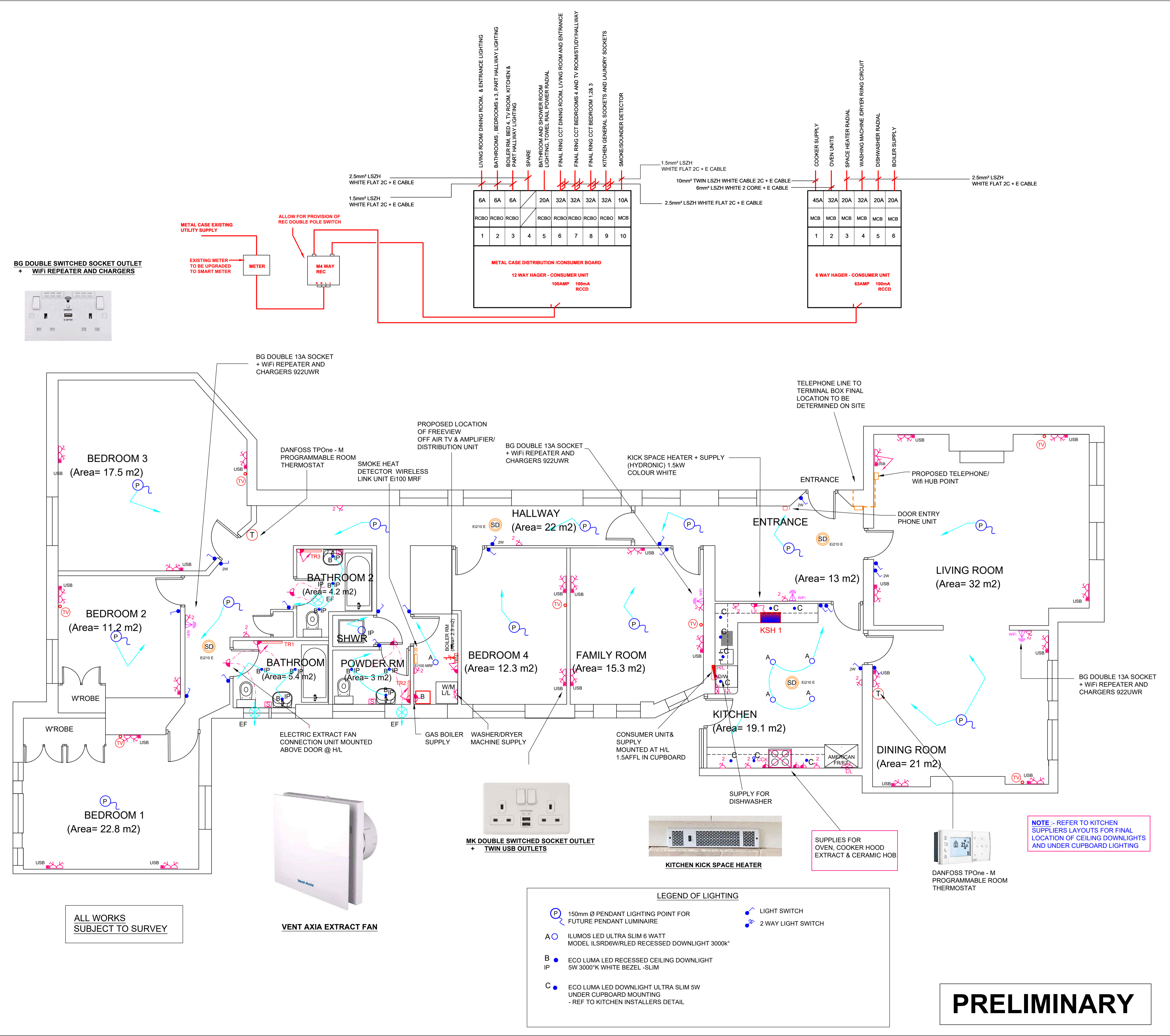
PROJECT
**HANOVER HOUSE
ST JOHNS WOOD
LONDON NW8**

TITLE
**FLAT 20
PROPOSED ELECTRICAL
LIGHTING AND POWER**

CLIENT
CANADIAN HIGH COMMISSION

Hannaford Upright
BUILDING SERVICES CONSULTING ENGINEERS
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WOKING SURREY GU21 5JH
TEL: 01483 730221 FAX: 01483 773970

SCALE	NTS @A1	DRAWING No.	REV.
DATE	03/07/19		
DRAWN	M7/HH	3366-E-01-FL20	
CHECKED	RUG		



PRELIMINARY

ALL WORKS
SUBJECT TO SURVEY

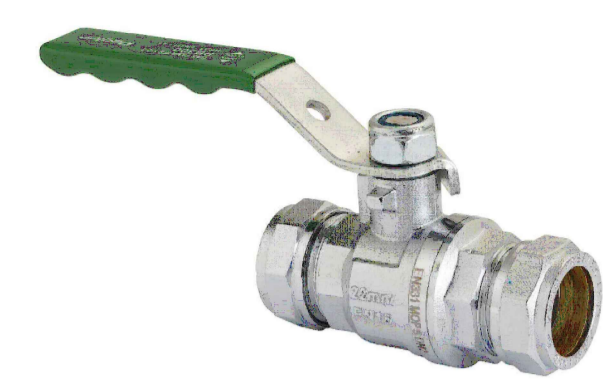
NOTE :- REFER TO KITCHEN SUPPLIERS LAYOUTS FOR FINAL LOCATION OF CEILING DOWNLIGHTS AND UNDER CUPBOARD LIGHTING

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NOTES

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- BATHROOM EXTRACTOR FANS: TYPE VENT AXIA SILENT FAN VASF100T. UNITS TO BE INSTALLED THROUGH THE WALL & INCLUDE BACK DRAUGHT SHUTTER AND INTEGRAL TIMER.
- KITCHEN EXTRACTOR FAN: TYPE VENT AXIA LO-CARBON VA 150.
- TOWEL RAILS TO BE ELECTRIC POWERED ONLY. TYPE: MHS RADIATORS LOUISA TOWEL RAIL WITH 900 / 600 WATT ELEMENT AS SCHEDULED.
- SINGLE CHECK VALVES TO BE FITTED TO ALL APPLIANCES AND HOT & COLD WATER SERVICES. TYPE: ARROW VALVES LIMITED.
- CONTRACTOR TO STRIP OUT ALL DOMESTIC PIPEWORK SERVICES BACK TO INTERNAL RISERS AND INSTALL NEW MAIN ISOLATION FULL BORE LEVER VALVES & SINGLE CHECK VALVES.
- NEW PIPEWORK SERVICES TO BE COPPER TUBE WHERE CONCEALED & CHROME PLATED COPPER TUBE WHERE PIPE IS ON SHOW IN KITCHENS & BATHROOMS. EGLER YORKSHIRE.
- ALL CONCEALED PIPEWORK TO BE INSULATED. HOT & COLD WATER PIPEWORK TO HAVE MINIMUM GAP OF 50mm (2") TO AVOID HEAT TRANSFER.
- FULL BORE LEVER ISOLATING VALVES TO BE FITTED TO ALL APPLIANCES i.e WC CISTERNS; WHB; SINKS; SHOWERS & KITCHEN / UTILITY APPLIANCES. TYPE: PEGLER YORKSHIRE.
- NEW BATHROOM EXTRACTOR FANS TO BE FITTED TO ALL BATHROOMS AS INDICATED. TYPE: VENT AXIA SILEN FAN.
- NEW GAS -FIRED BOILER CONDENSATE DISCHARGE TO CONNECT TO INTERNAL WASTE PIPE TO CONNECT TO NEW PLASTIC WASTE BRANCH TO DISCHARGE STACK.
- CONTRACTOR TO ALLOW FOR NEW INTERNAL & EXTERNAL WASTE PIPES BACK TO EXISTING DISCHARGE STACK POSITIONS.

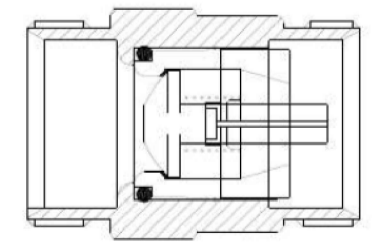
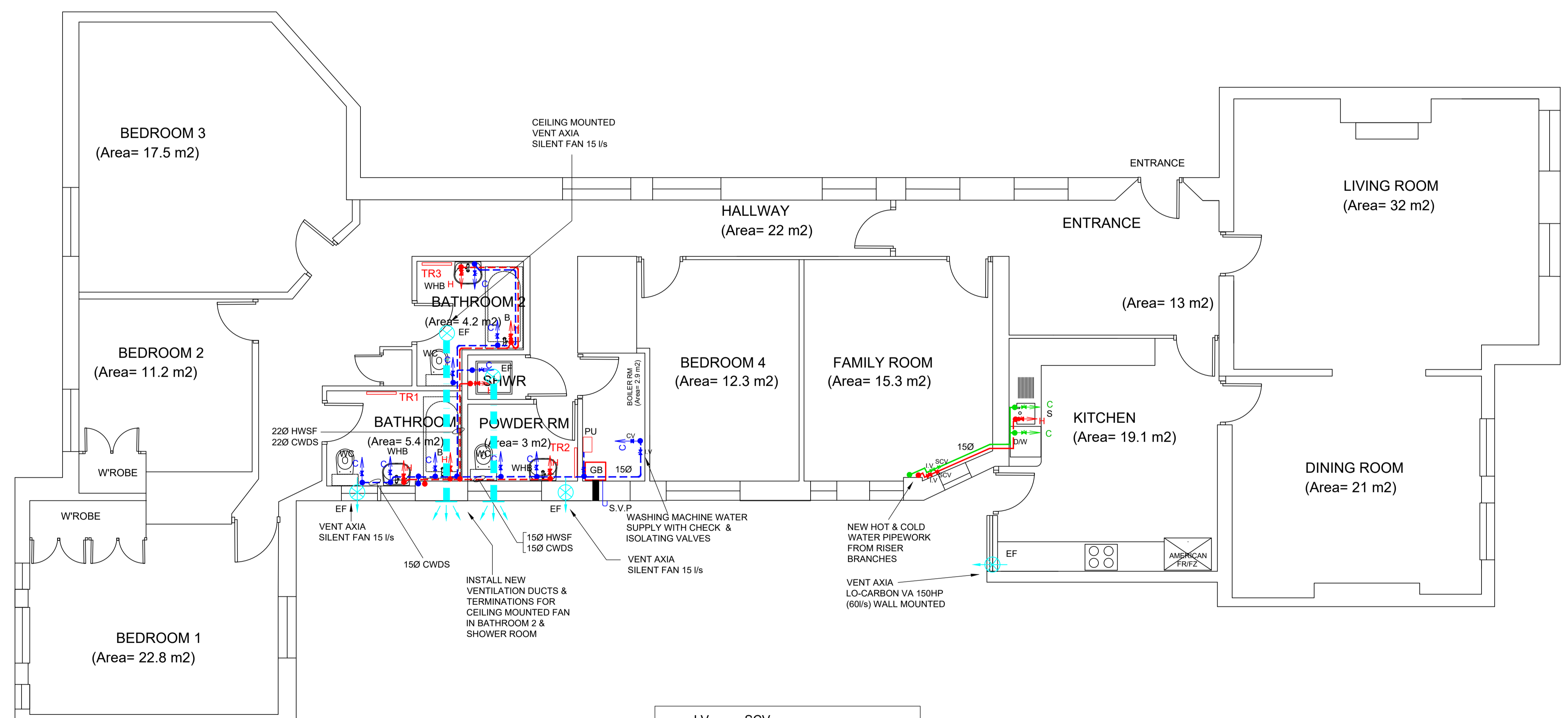
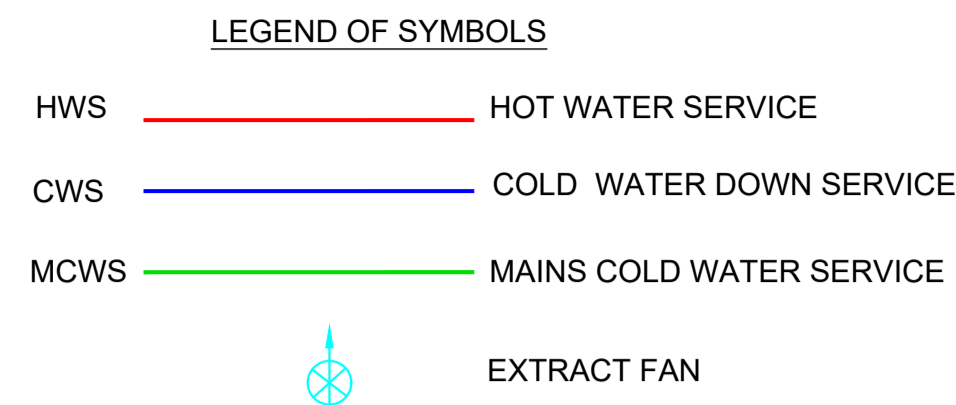
- ABBREVIATIONS**
- WC = WATER CLOSET
 - S = SINK
 - WHB = WASH HAND BASIN
 - B = BATH
 - W/M = WASHING MACHINE
 - E F = EXTRACT FAN
 - C.V = SINGLE CHECK VALVE
 - I.V = FULL BORE LEVER ISOLATING VALVE
 - 150 = NOMINAL DIA. PIPE
 - C.U = COPPER PIPE
 - HWS = DOMESTIC HOT WATER SERVICE
 - CWDS = COLD WATER DOWN SERVICE
 - MCWS = MAINS COLD WATER SERVICE
 - l/s = LITRES PER SECOND
 - S.V.P = SAFETY VALVE PIPE
 - PU = PRESSURISATION UNIT
 - GB = GAS BOILER



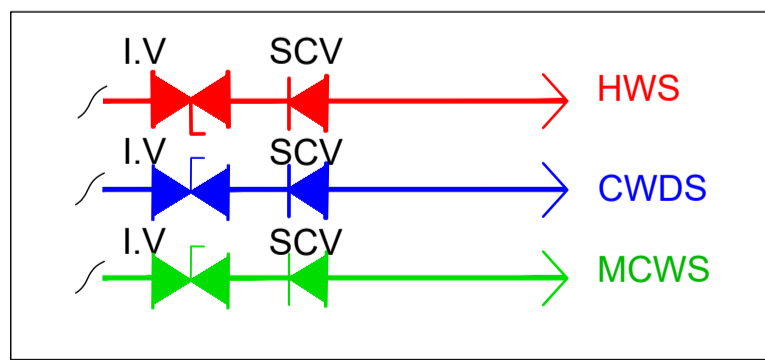
FULL BORE LEVER ISOLATING VALVE



VENT AXIA EXTRACT FAN



CHECK VALVE DETAIL



ALL WORKS
SUBJECT TO SURVEY

PRELIMINARY

REV.	DATE	DESCRIPTION

PROJECT
HANOVER HOUSE
ST JOHNS WOOD
LONDON NW8

TITLE
FLAT 20, 3RD FLOOR
PROPOSED DOMESTIC WATER
SERVICES AND VENTILATION

CLIENT
CANADIAN HIGH COMMISSION

Hannaford Upright
BUILDING SERVICES CONSULTING ENGINEERS
STUART HOUSE
80 - 82 MAYBURY ROAD
WOKING SURREY GU21 5JH
TEL: 01483 730221 FAX: 01483 773970

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DATE		
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MT/HH	3366-M-02-FL20	
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