



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: 72395780004

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.

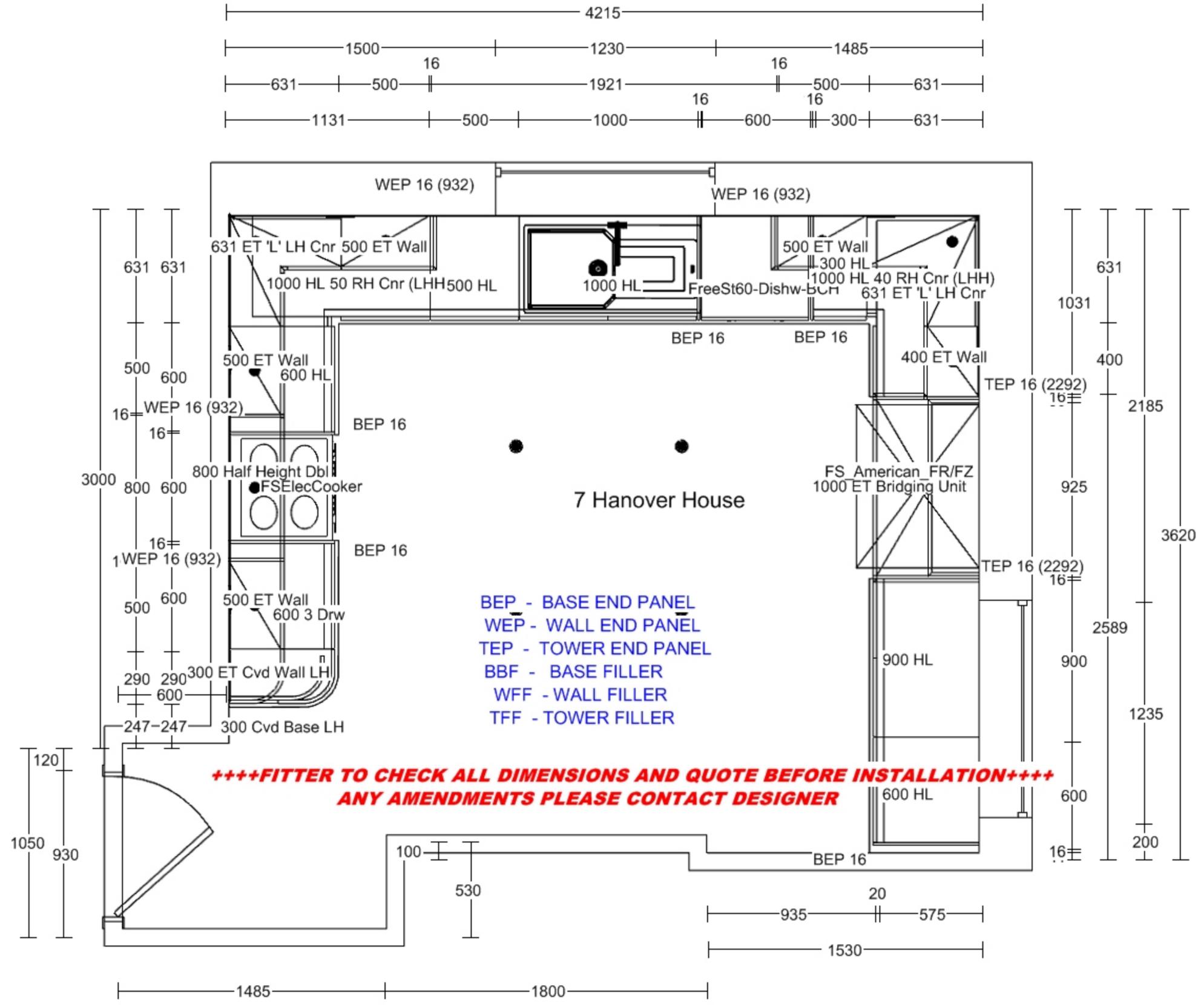
Scan QR to view
this plan online.











	Please consult the quotation for a list of items to be supplied. The drawing is a computer representation of layout	Cad Plan No : 72395780004	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.

ALL WORKS
SUBJECT TO SURVEY

- ABBREVIATIONS**
- G.M = GAS METER
 - D.O = DRAIN-OFF
 - B = BOILER
 - MV = 2-PART MOTORISED VALVE
 - R.1 = RADIATOR
 - TR.1 = ELECTRICAL 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
 - AB = AUTOMATIC BYPASS VALVE
 - EV = EXPANSION VESSEL
 - T = PROGRAMMABLE ROOM THERMOSTAT
 - WHV = RADIATOR WHEEL HEAD VALVE
 - I.V = FULL BORE LEVER ISOLATING VALVE
 - KSH = KICK SPACE HEATER
 - PU = PRESSURISATION UNIT
 - LTHWF = LOW TEMPERATURE
 - LTHWR = HEATING FLOW & RETURN
 - I.V = LEVER ISOLATING VALVE



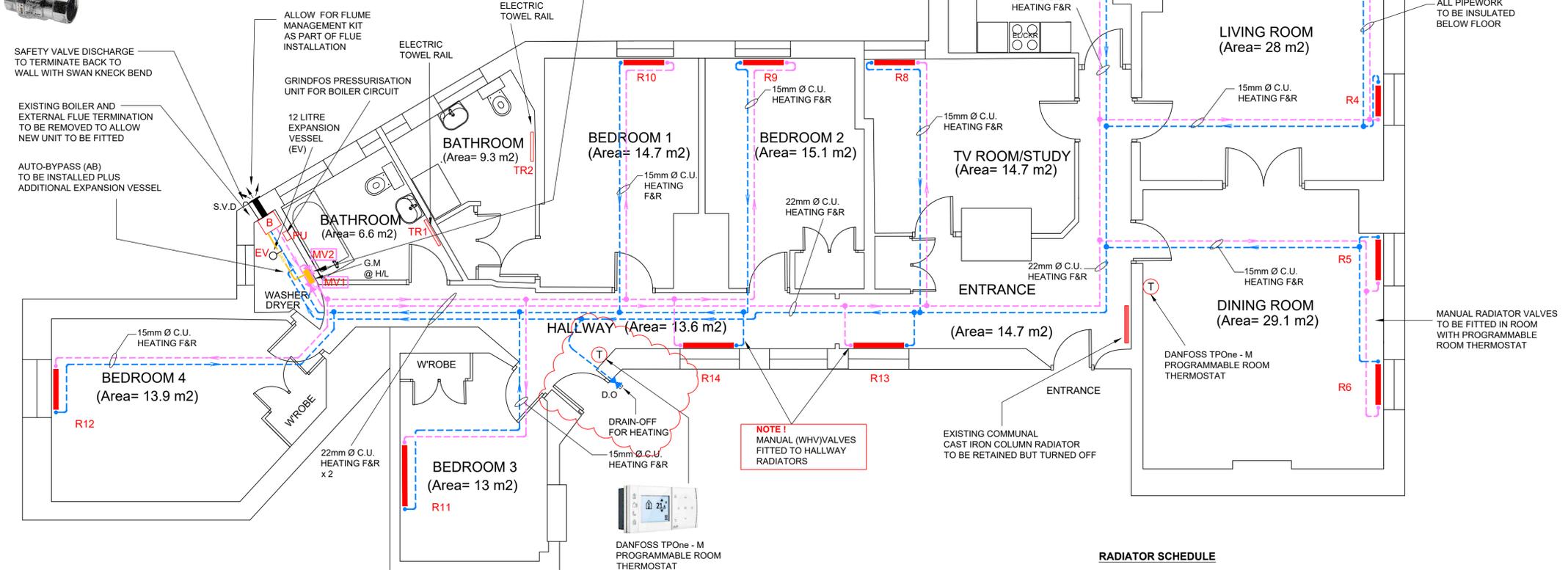
GAS BOILER



GAS METER



LEVER HANDLED
ISOLATING VALVE

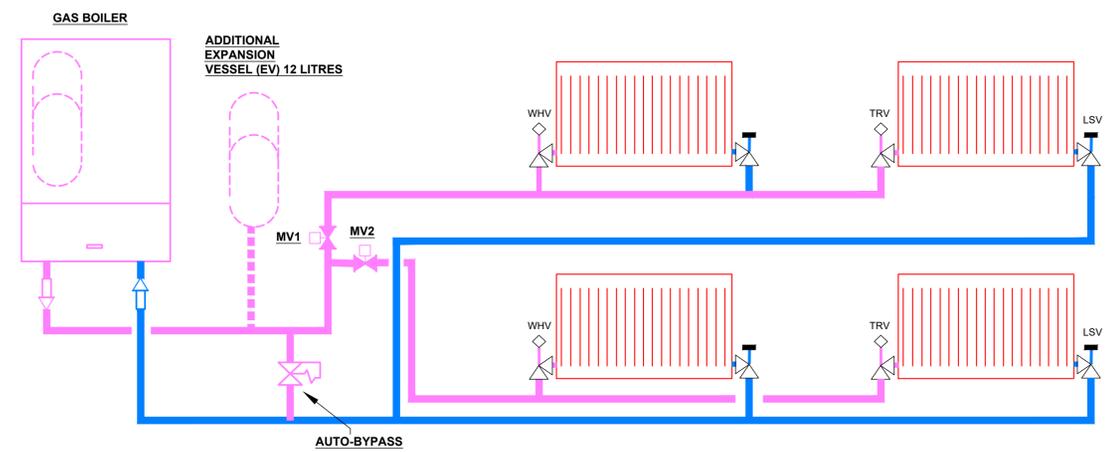


- NOTES**
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH ALL DOCUMENTS LISTED THERE IN.
 - SYSTEM BOILER TYPE: WORCESTER GREENSTAR : SYSTEM 24kW GAS FIRED CONDENSING BOILER.
 - RADIATORS TO BE STEEL PANEL TYPE: CARADON STELRAD VITA PLAN K1 OR K2. CONTRACTOR SHOULD CHECK THAT THERE IS ADEQUATE INSTALLATION SPACE BEFORE ORDERING RADIATORS.
 - THERMOSTATIC RADIATOR VALVES (TRVs) TO BE INSTALLED TO ALL RADIATORS, EXCEPT FOR ROOM WITH PROGRAMMABLE THERMOSTAT. TYPE: DRAYTON TRV4 CLASSIC.
 - 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).
 - AUTOMATIC BYPASS VALVE TO BE FITTED BETWEEN FLOW 7 RETURN IN BOILER COMPARTMENT TYPE: DRAYTON AUTOMATIC BYPASS VALVE 22mm.
 - 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.
 - TOWEL RAILS IN BATHROOM TO BE ELECTRICALLY HEATED. TYPE MHS RADIATOR LOUISA 900 / 600 WATT AS SCHEDULED.
 - A HEATING SYSTEM PRESSURISATION UNIT TO BE INSTALLED AT HIGH LEVEL IN BOILER COMPARTMENT. TYPE: GRUNDFOS PHT N- SERIES N130.

NOTE!
MANUAL (WHV) VALVES
FITTED TO HALLWAY
RADIATORS

RADIATOR SCHEDULE

Rad. reference	No. OFF	Height (mm)	Length (mm)	Rad. mult	Output (W)	Radiator type
R1	1	450	600	1	730	CARADON STELRAD Vita Plan K2 Radiators
R2	1	450	600	1	730	CARADON STELRAD Vita Plan K2 Radiators
R3	1	450	600	1	730	CARADON STELRAD Vita Plan K2 Radiators
R4	1	450	600	1	730	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
KSH1	1	105	500	1	1500	KPH-1500 CLASSIC Kitchen Plinth Heater (Hydronic)
R8	1	600	800	1	696	CARADON STELRAD Vita Plan K1 Radiators
R9	1	600	800	1	696	CARADON STELRAD Vita Plan K1 Radiators
R10	1	600	800	1	696	CARADON STELRAD Vita Plan K1 Radiators
R11	1	600	1200	1	1044	CARADON STELRAD Vita Plan K1 Radiators
R12	1	600	800	1	1281	CARADON STELRAD Vita Plan K2 Radiators
R13	1	600	1000	1	870	CARADON STELRAD Vita Plan K1 Radiators
R14	1	600	1000	1	1601	CARADON STELRAD Vita Plan K2 Radiators
TR1	1	1160	580	1	900	MHS RADIATORS Louisa Towel Rail (ELECTRICAL)
TR2	1	1160	580	1	900	MHS RADIATORS Louisa Towel Rail (ELECTRICAL)



TYPICAL HEATING DETAIL

PRELIMINARY

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

PROJECT
HANOVER HOUSE
ST JOHNS WOOD
LONDON NW8

TITLE
FLAT 7, 3RD FLOOR
PROPOSED HEATING

CLIENT
CANADIAN HIGH COMMISSION

Government of Canada

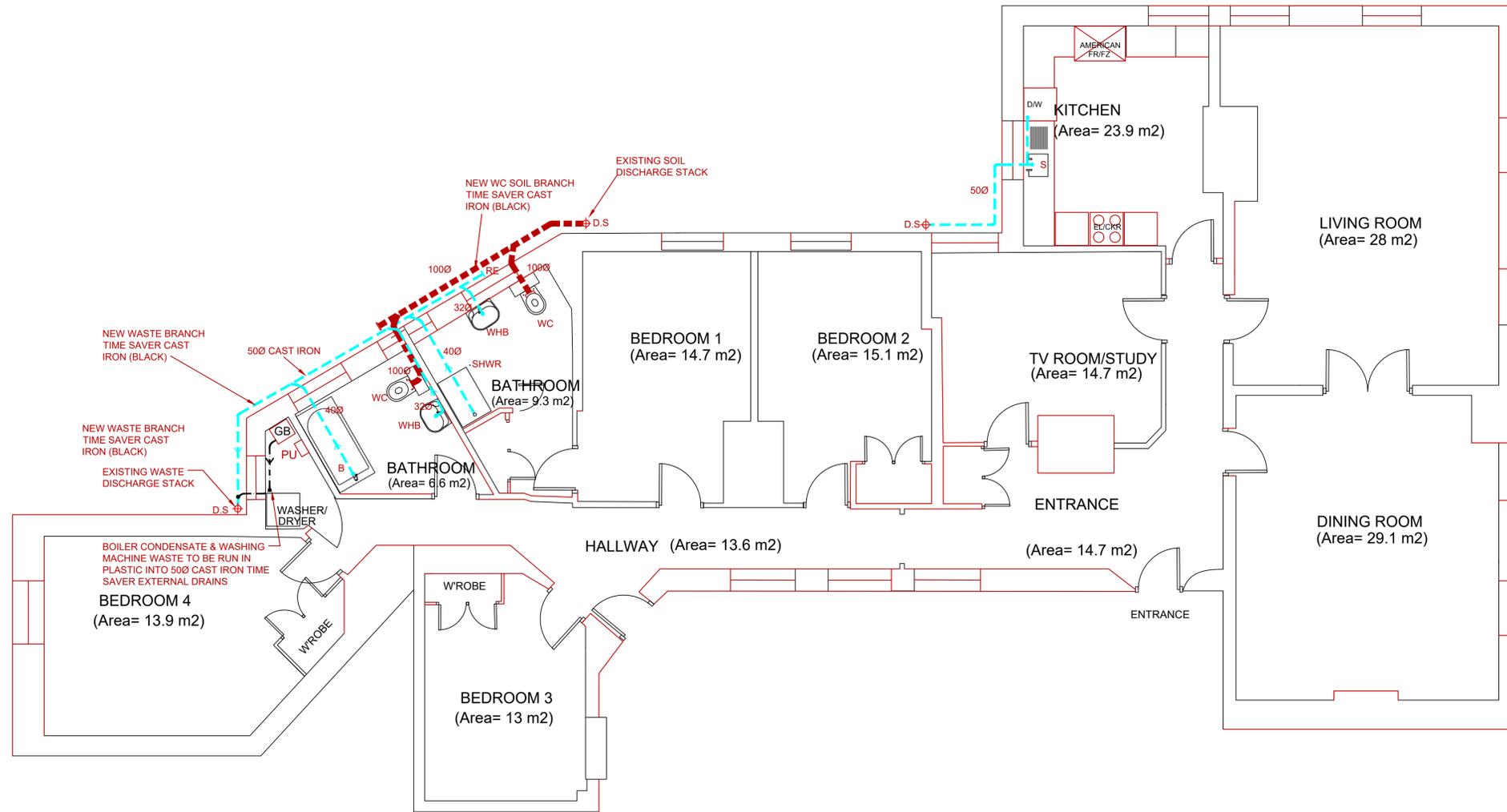
Hannaford Upright
BUILDING SERVICES CONSULTING ENGINEERS
STUART HOUSE
80 - 82 MAYBURY ROAD
WOKING SURREY GU21 5JH
TEL: 01483 730221 FAX: 01483 773970

SCALE	NTS @A1	DRAWING No.	REV.
DATE	10/06/19	3366-M-01-FL7	A
DRAWN	MT/VH		
CHECKED	RAG		

ABBREVIATIONS
 WC = WATER CLOSET
 S = SINK
 WHB = WASH HAND BASIN
 B = BATH
 G.B = GAS BOILER
 C.E = CLEANING EYE
 C.I. = CAST IRON PIPE
 D.S = DISCHARGE STACK
 S.V.P = SAFETY VALVE PIPE

LEGEND OF SYMBOLS

— WASTE PIPE
 — 100mm Ø TIME SAVER CAST IRON DISCHARGE STACK



ALL WORKS
 SUBJECT TO SURVEY

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- 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. 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.

REV.	DATE	DESCRIPTION

PROJECT
 HANOVER HOUSE
 ST JOHNS WOOD
 LONDON NW8

TITLE
 FLAT 7 3RD FLOOR
 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

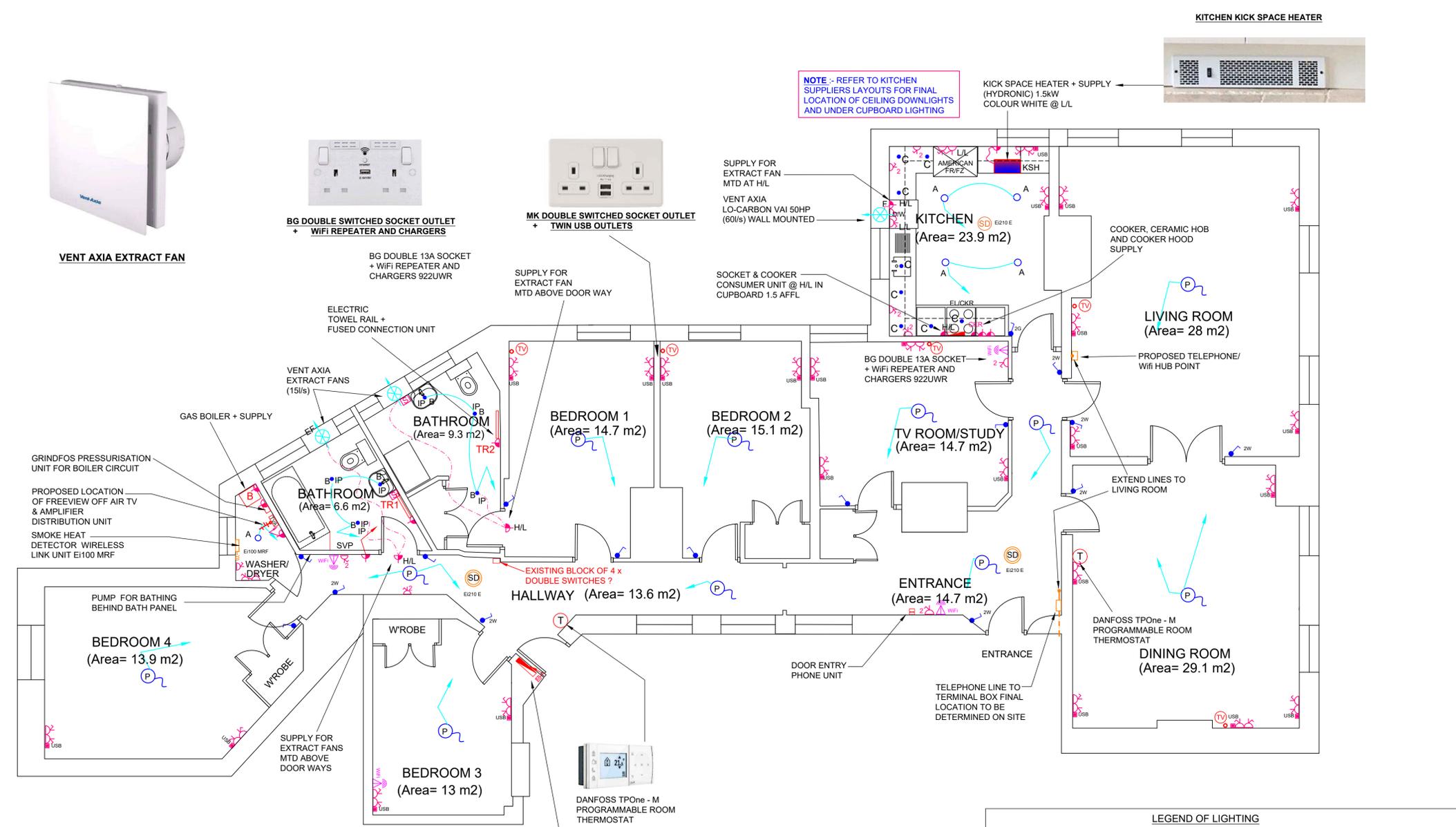
PRELIMINARY

SCALE	DRAWING No.	REV.
1:50 @A1		
DATE	10/06/19	
DRAWN	MT/VH	
CHECKED	RAG	
	3366-PH-01-FL7	

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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
 - KSH
 - KICK SPACE HEATER
 - H/L 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



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



VENT AXIA EXTRACT FAN

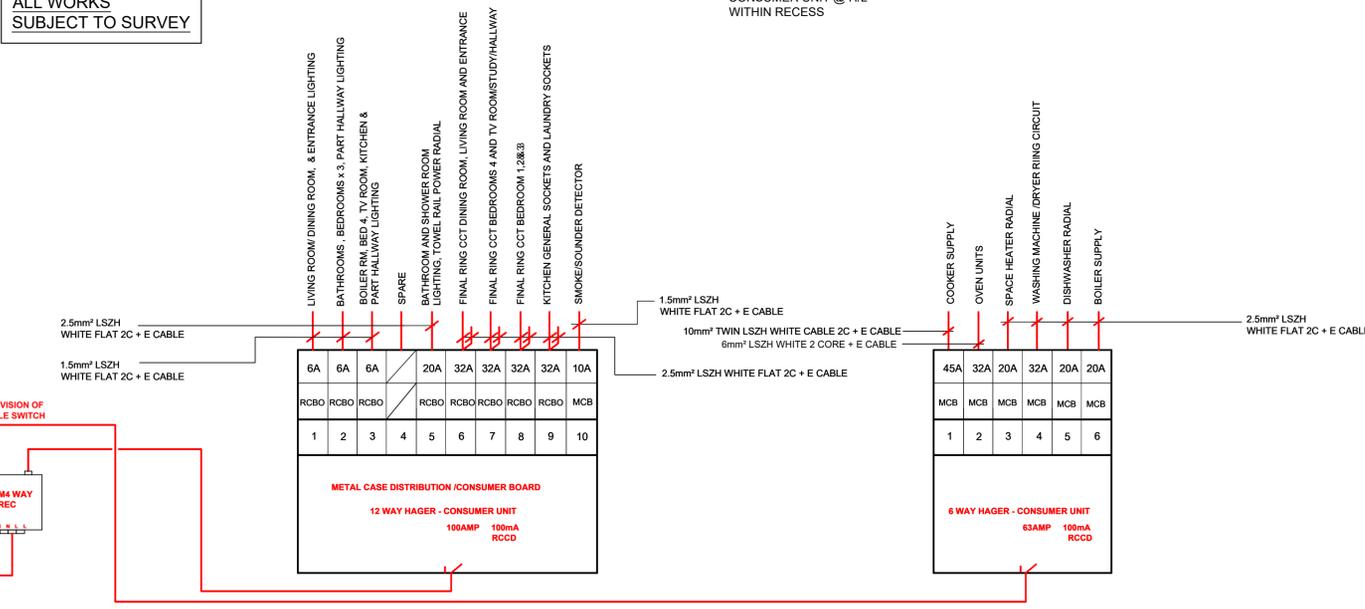
BG DOUBLE SWITCHED SOCKET OUTLET + WIFI REPEATER AND CHARGERS 922UWR

MK DOUBLE SWITCHED SOCKET OUTLET + TWIN USB OUTLETS

KICK SPACE HEATER + SUPPLY (HYDRONIC) 1.5kW COLOUR WHITE @ L/L

ALL WORKS SUBJECT TO SURVEY

- LEGEND OF LIGHTING**
- 150mm Ø PENDANT LIGHTING POINT FOR FUTURE PENDANT LUMINAIRE
 - LIGHT SWITCH
 - 2 WAY LIGHT SWITCH
 - ILUMOS LED ULTRA SLIM 6 WATT MODEL ILSRD6W/RLD RECESSED DOWNLIGHT 3000K
 - ECO LUMA LED RECESSED CEILING DOWNLIGHT 5W 3000°K WHITE BEZEL -SLIM
 - ECO LUMA LED DOWNLIGHT ULTRA SLIM 5W UNDER CUPBOARD MOUNTING - REF TO KITCHEN INSTALLERS DETAIL



REV.	DATE	DESCRIPTION

PROJECT
HANOVER HOUSE
ST JOHNS WOOD
LONDON NW8

TITLE
FLAT 7
PROPOSED ELECTRICAL
LIGHTING AND POWER

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

PRELIMINARY

SCALE	NTS @A1	DRAWING No.	REV.
DATE	3/07/19	3366-E-01-FL7	
DRAWN	RG/VH		
CHECKED	RAG		

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NOTES

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

REV.	DATE	DESCRIPTION

PROJECT
HANOVER HOUSE
ST JOHNS WOOD
LONDON NW8

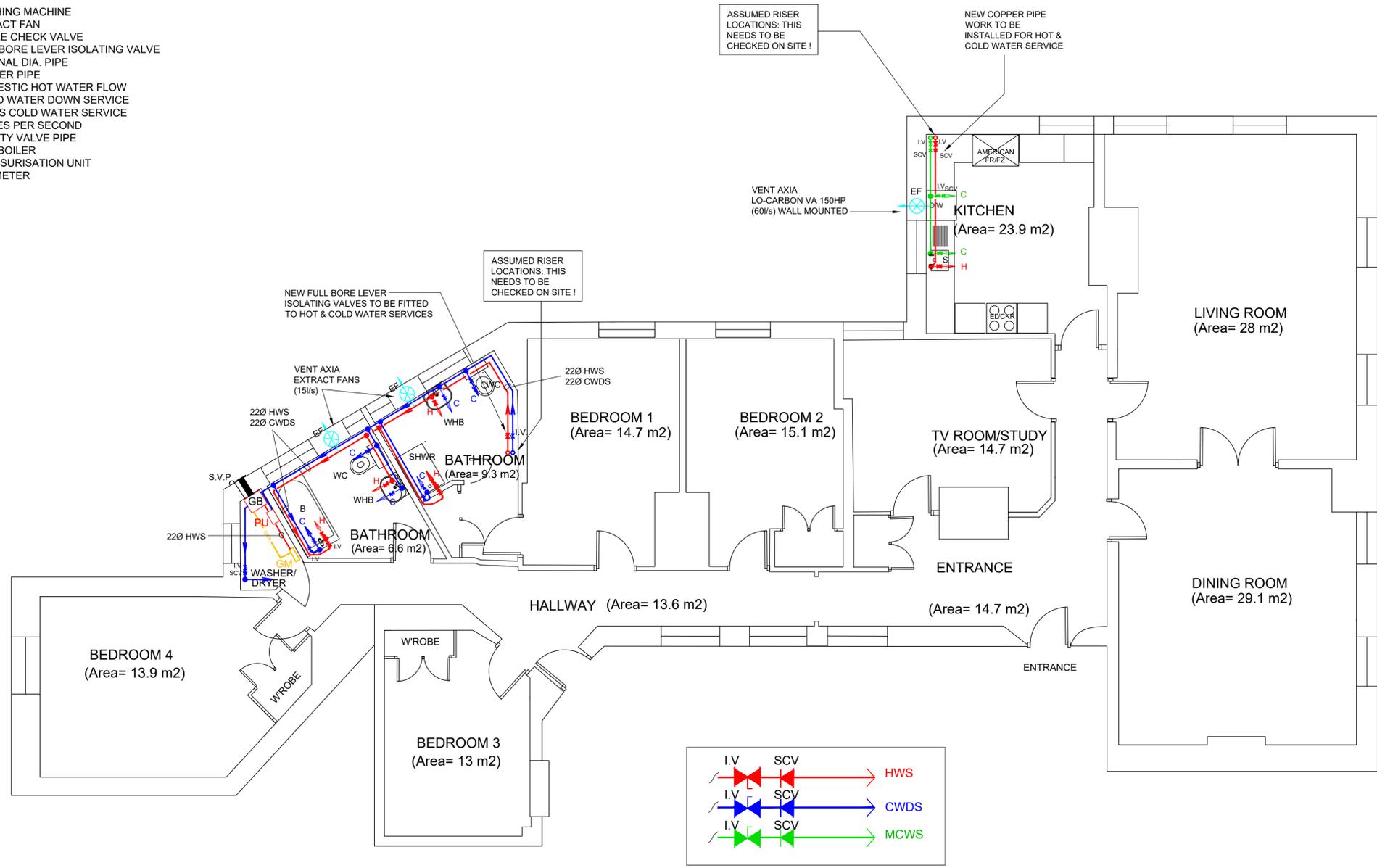
TITLE
FLAT 7 3RD FLOOR
DOMESTIC WATER SERVICES
AND VENTILATION

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

SCALE	DRAWING No.	REV.
1:50 @A1		
DATE	10/06/19	
DRAWN	MT/VH	3366-M02-FL7
CHECKED	RAG	

- 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 FLOW
 - CWDS = COLD WATER DOWN SERVICE
 - MCWS = MAINS COLD WATER SERVICE
 - l/s = LITRES PER SECOND
 - S.V.P = SAFETY VALVE PIPE
 - GB = GAS BOILER
 - PU = PRESSURISATION UNIT
 - GM = GAS METER



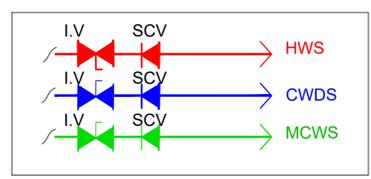
ASSUMED RISER LOCATIONS: THIS NEEDS TO BE CHECKED ON SITE!

NEW COPPER PIPE WORK TO BE INSTALLED FOR HOT & COLD WATER SERVICE

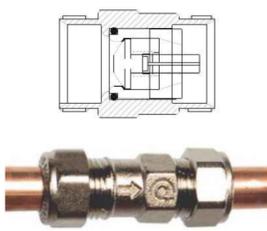
VENT AXIA LO-CARBON VA 150HP (60l/s) WALL MOUNTED

ASSUMED RISER LOCATIONS: THIS NEEDS TO BE CHECKED ON SITE!

NEW FULL BORE LEVER ISOLATING VALVES TO BE FITTED TO HOT & COLD WATER SERVICES



ALL WORKS SUBJECT TO SURVEY



CHECK VALVE DETAIL



FULL BORE LEVER ISOLATING VALVE



VENT AXIA EXTRACT FAN

PRELIMINARY