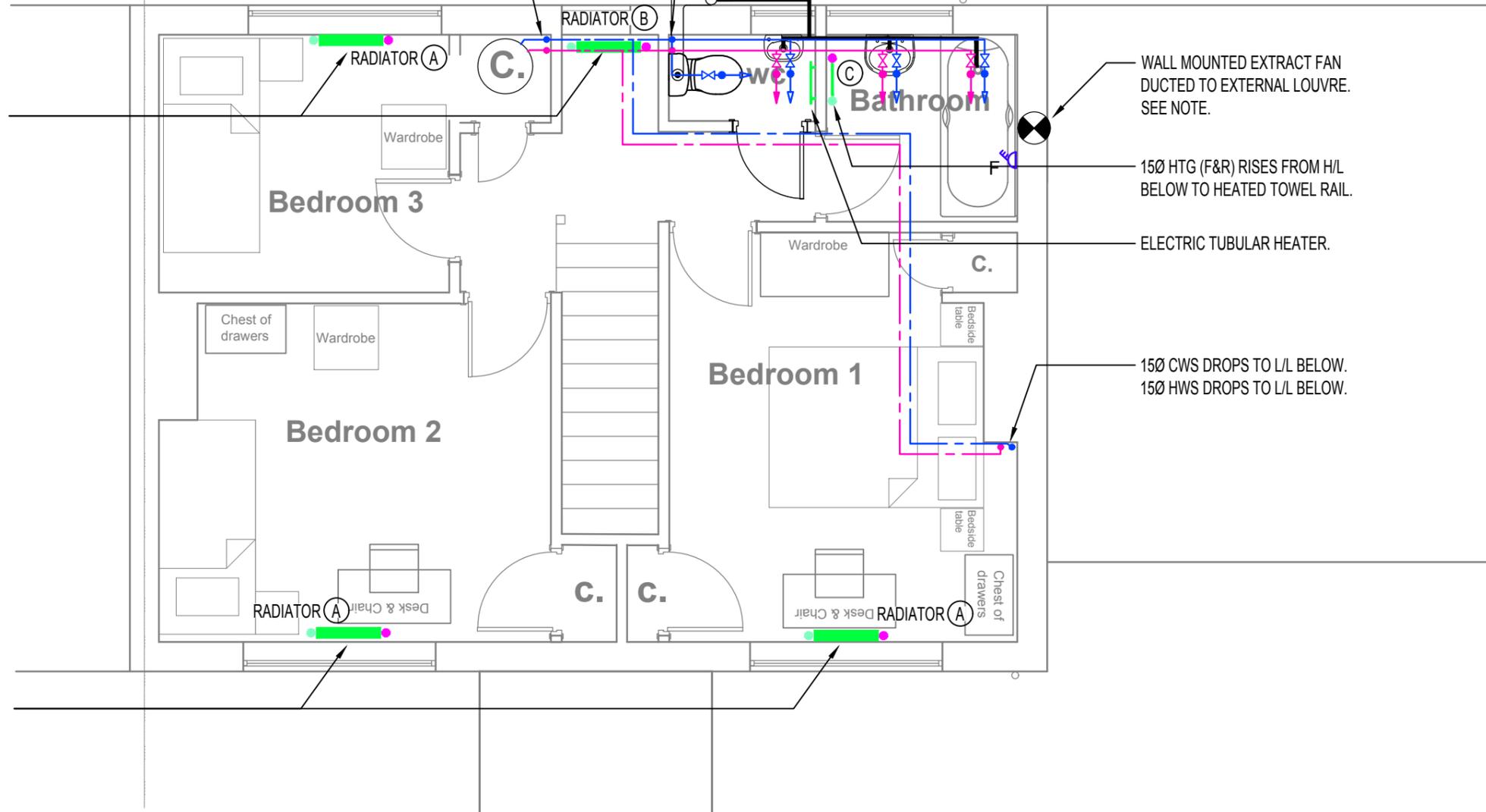


220 CWS RISES FROM L/L BELOW.
 220 CWS CONTINUES TO RISE TO LOFT SPACE ABOVE.
 220 CWS BRANCHES OFF TO SERVE ELECTRIC WATER HEATER.
 150 HWS DROPS TO L/L BELOW.
 220 HWS RISES TO LOFT SPACE ABOVE.

220 CWS & HWS DROP TO RUN AT L/L.

150 HTG (F&R) RISES FROM H/L BELOW TO SERVE RADIATORS.

150 HTG (F&R) RISES FROM H/L BELOW TO SERVE RADIATORS.



WALL MOUNTED EXTRACT FAN DUCTED TO EXTERNAL LOUVRE. SEE NOTE.

150 HTG (F&R) RISES FROM H/L BELOW TO HEATED TOWEL RAIL.

ELECTRIC TUBULAR HEATER.

150 CWS DROPS TO L/L BELOW.
 150 HWS DROPS TO L/L BELOW.

- Notes:**
- 1. THESE ARE TECHNICAL DESIGN DRAWINGS ONLY - SUITABLE FOR THE ENGINEERING SERVICES TO BE INSTALLED IN THE GENERAL ROUTES INDICATED, AND ALLOW COORDINATION / INSTALLATION DRAWINGS TO BE PRODUCED WITH MAJOR RE-ROUTING OF THOSE SERVICES.
 - 2. THESE ARE NOT INSTALLATION DRAWINGS, WHICH SHOULD BE PRODUCED BY MAIN CONTRACTOR/ SUB-CONTRACTORS SHOWING FURTHER DETAILS TO FOR THE ENGINEERING SERVICES TO BE INSTALLED (E.G. FULLY DIMENSIONED, ALLOWING FOR BRACKETS / SUPPORTS AND BASED ON THE ACTUAL PLANT / EQUIPMENT BEING INSTALLED).
 - 3. 1. WHERE PIPES RUN HORIZONTALLY WITH ONE PIPE ABOVE THE OTHER, THE HOT WATER PIPE SHALL ALWAYS BE ON TOP, THE COLD WATER MAINS SHALL ALWAYS BE BELOW THE OTHER PIPES.
 - 4. ALL PIPEWORK PENETRATIONS THROUGH WALLS TO BE SLEEVED WITH A LARGER SIZE PIPE.
 - 5. WASHING MACHINE AND DISHWASHER VALVES (BLUE & RED HANDLES) AND HOSE CONNECTIONS TO BE PROVIDED.
 - 6. ALL HEATING & HOT AND COLD WATER PIPES WITHIN THE CEILING VOIDS AND CUPBOARDS AND WHERE RUNNING BEHIND KITCHEN UNITS TO BE THERMALLY INSULATED.
 - 7. ALL PIPEWORK LOW POINTS ON THE HEATING SYSTEM TO BE PROVIDED WITH DRAIN VALVES.
 - 8. ALL PIPEWORK HIGH POINTS ON THE HEATING SYSTEM TO BE PROVIDED WITH AIR VENTS.
 - 9. TMV2 CERTIFIED THERMOSTATIC BLENDER VALVE TO BE FITTED TO BATH.
 - 10. EXTRACT FANS: (UTILITY & BATHROOM)
 NUARIE - NA150T
 DUTY - 26/s @ 50pa
 SIZE - 200x200x119
 FAN SPEED - 2800RPM
 SUPPLY - 1 PHASE
 - 11. LAYOUT, LOCATIONS, ROUTE AND SELECTIONS HAVE BEEN PRODUCED AS PROPOSED. THE CONTRACTOR IS RESPONSIBLE FOR FINAL SELECTIONS AND ROUTES.

PIPEWORK LEGEND

- COLD WATER TAP CONNECTION
- HOT WATER TAP CONNECTION
- SERVICE VALVE
- HOSE CONNECTION FOR KITCHEN APPLIANCE
- DOUBLE CHECK VALVE
- DRAIN TAP
- BELOW GROUND HTG/DHW/CWS
- LOW LEVEL HTG/DHW/CWS PIPES
- HIGH LEVEL HTG/DHW/CWS PIPES
- ABOVE CEILING HTG/DHW/CWS PIPES
- LPG PIPE

RAD REF:	RAD TYPE:	LENGTH (mm)	HEIGHT (mm)	OUTPUT (watts)
(A)	COMPACT K1	600	600	588
(B)	COMPACT K1	500	450	378
(C)	CLASSIC TOWEL	500	1211	539

NOTE: ALL RADIATORS TO BE TBOE TOP & BOTTOM OPPOSITE END CONNECTION TYPE RADIATORS - BUT INSTALLED AS BBOE WITH TRV'S AT L/L.

REV	ISSUED	DATE	CHECKED	DATE	APPROVED	DATE
P0		17/11/17	TK	17/11/17		

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CLIENT
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PROJECT
 Refurbishment of Warren Cottage Lynford, Thetford, IP15 5ET

TITLE
 Mechanical Services

Proposed First Floor Services

SCALES	DISCIPLINE	PROJECT NUMBER
1:50	MECH ENG	18-3-6022
DRAWING NUMBER	REV CODE	
HBS-DR-M(50)-002	P0	
STATUS CODE	PURPOSE OF ISSUE	DRAWN BY
S2	INFORMATION	KG