



5. THE CONTRACTOR WILL FULLY COMPLY WITH ALL RELEVANT BRITISH STANDARDS, REGULATIONS, STANDARD CODES OF PRACTICE, METHODS OF WORKING, AND GOOD PRACTICE.
6. THE CONTRACTOR SHALL ENSURE THAT ALL PIPEWORK IS INSTALLED AND DESIGNED TO BS6700, CIBSE GUIDES AND GOOD PRACTICE.
7. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FINAL CO-ORDINATION AND INSTALLATION OF ALL MECHANICAL SERVICES WITH ALL OTHER SERVICES AND THE BUILDING STRUCTURE.
8. REFER TO THE EXTERNAL SERVICES LAYOUT AND DWS SCHEMATIC FOR DETAILS OF INCOMING MAINS WATER SERVICES
9. ALL SERVICES WILL BE IDENTIFIED IN ACCORDANCE WITH BS 1710 & GOOD ENGINEERING PRACTICE. PIPEWORK TO BE RAL 6003.
10. ALL PIPEWORK TO BE COPPER IN ACCORDANCE WITH BS 2781 PART 1 TABLE X.
11. WHERE POSSIBLE USE CAPILLARY FITTINGS WITH END FEED FITTINGS TO BE WITH LEAD FREE SOLDER. COMPRESSION FITTINGS CAN BE USED BUT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
12. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE M&E SPECIFICATIONS AND EQUIPMENT SCHEDULES.
13. BALL-O-FIX ISOLATING VALVES TO BE INSTALLED ON ALL FINAL APPLIANCE BRANCH CONNECTIONS INCLUDING WC'S CISTERNS, WASH HAND BASINS, URINAL FLUSHING CISTERNS SHOWERS & CLEANERS SINKS. VALVE TO BE NO MORE THAN 300mm FROM FINAL CONNECTION TO OUTLET.
14. ISOLATION VALVES ARE TO BE INSTALLED AS LISTED BELOW. SEE DWS SCHEMATIC FOR DETAILS.
- ON SUPPLY PIPES TO TOILET AREAS & KITCHENS
  - RANGES OF WHBs, BOTH HOT & COLD SUPPLIES
  - RANGES OF W.C. CISTERNS
  - ADJACENT TO ALL MAJOR ITEMS OF PLANT/ EQUIPMENT
  - ALL BRANCH CONNECTIONS OFF MAIN DISTRIBUTION PIPEWORK
15. DRAIN OFF COCKS ARE TO BE PROVIDED AT LOW LEVEL TO FACILITATE DRAINING, AND AUTOMATIC AIR VENTS PROVIDED AT ALL HIGH POINTS ON ALL NECESSARY PIPEWORK.
16. ALL COLD WATER PIPEWORK SHALL BE THERMALLY INSULATED AND VAPOUR SEALED IN ACCORDANCE WITH THE SPECIFICATION.
17. GENERALLY, ALL PIPED SERVICES SHALL BE CONCEALED BEHIND ACCESSIBLE PANELS. ANY EXPOSED PIPE SERVICES ARE TO BE CHROME PLATED.
18. NO PIPEWORK JOINTS TO BE FORMED IN CONCEALED WALLS, FLOORS OR INACCESSIBLE CAVITIES.
19. ALL COMPONENTS OF THE DOMESTIC WATER SYSTEM TO BE WRAS APPROVED.
20. ALL PIPEWORK TO BE IDENTIFIED IN ACCORDANCE WITH BS 1710.
21. ALL PIPEWORK TO BE PRESSURE TESTED THROUGHOUT PRIOR TO APPLICATION OF INSULATION.
22. THE CONTRACTOR SHALL UNDERTAKE FLUSHING, CLEANING AND CHLORINATION OF DWS PIPEWORK IN ACCORDANCE WITH THE SPECIFICATION.
23. THE ELECTRIC WATER HEATERS SHALL BE UNVENTED AND PROVIDED WITH ALL APPROPRIATE UNVENTED ANCILLARIES AS STATED BY THE MANUFACTURER. SAFETY VALVES AND EXPANSION KIT TO BE PROVIDE AND SELECTED TO SUIT APPLICATION.
24. DEAD LEGS SHALL BE A MAXIMUM OF 1000mm ON BOTH HOT AND COLD WATER PIPEWORK. HOT WATER PIPEWORK SHALL BE TRACE HEATED THROUGHOUT TO MAINTAIN DESIGN TEMPERATURE.
25. THE WATER PRESURE AT EACH OUTLET SHOULD NOT BE GREATER THAN 1.5BAR AND NOT LESS THAN 0.5BAR. ANY PRESSURE RELIEF VALVES REQUIRED ARE INSTALLED PRIOR TO COMMISSIONING.
26. ALL DHW BLENDING VALVES ARE TO FULLY COMPLY WITH THE MECHANICAL SPECIFICATION AND BE COMPLETE WITH INTEGRAL ISOLATING VALVES, STRAINERS AND NON-RETURN VALVES. THE MECHANICAL CONTRACTOR SHALL INCLUDE FOR THE SETTING OF EACH BLENDING VALVE TO 43°C TO BE WITNESSED BY THE CLIENT'S REPRESENTATIVE.
27. BLENDING VALVES SHALL BE USED ON ALL WHBS AND KITCHENETTE SINKS.
28. WATER SERVICES TO ALL SANITARYWARE / APPLIANCES SHALL BE INSTALLED TO MANUFACTURER'S INSTRUCTIONS.
29. FINAL CONNECTION SIZES TO APPLIANCES:
- WHB = 15Ø
  - KITCHENETTE SINK = 15Ø
  - CLEANER'S SINK = 22Ø
  - WC = 15Ø
  - URINAL CISTERN = 15Ø

COPYRIGHT RAMBOLL UK LIMITED. ALL RIGHTS RESERVED. THIS DOCUMENT IS ISSUED FOR THE PARTY WHO COMMISSIONED IT AND FOR THE SPECIFIC PURPOSES CONNECTED WITH THE PROJECT ONLY. IT SHOULD NOT BE RELIED UPON BY ANY OTHER PARTY OR USED FOR ANY OTHER PURPOSE. RAMBOLL ACCEPTS NO RESPONSIBILITY OR LIABILITY WHICH MAY ARISE FROM RELIANCE OR USE OF THIS DOCUMENT OR THE DATA CONTAINED HEREIN BY ANY OTHER PARTY OR FOR ANY OTHER PURPOSE.

- Notes
- DO NOT SCALE FROM THIS DRAWING
  - ALL DIMENSIONS ARE MILLIMETRES U.N.O.
  - ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM U.N.O.
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

T01	TENDER	16/11/2018	DL	AC
Rev	Description	Date	By	App
			Chk	

## TENDER

## MUSEUM OF OXFORD HIDDEN HISTORIES

**RAMBOLL**

tel 0117 929 5200 bristol@ramboll.co.uk  
www.ramboll.co.uk

## MECHANICAL SERVICES GROUND FLOOR DOMESTIC SERVICES LAYOUT

Project No:	Scale (@ A1):	Date:	Drawn:
1620002535	1 : 100	09/05/18	DL
Drawing No:		Rev:	
OXF-RAM-MOO-00-ME-DR-53410			T01