

HEATING LEGEND

- LOW TEMPERATURE HOT WATER FLOW PIPEWORK
- LOW TEMPERATURE HOT WATER RETURN PIPEWORK
- EXISTING LOW TEMPERATURE HOT WATER PIPEWORK
- RADIATOR
- EXISTING RADIATOR

HVAC NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL RELEVANT ARCHITECT AND ENGINEER DRAWINGS.

2. ALL NEW PIPEWORK INSTALLATIONS SHALL BE PRESSURE TESTED, ONCE THIS HAS BEEN COMPLETED, THE ENTIRE PIPEWORK SYSTEM SHALL BE PRESSURE TESTED. ALL SHALL BE COMPLETED PRIOR TO OPERATION OF THE SYSTEM.

3. ALL PIPEWORK WHERE PASSING THROUGH FLOORS OR WALLS OR THROUGH A FIRE BARRIER SHALL BE SLEEVED AND FIRE STOPPED.

4. BRACKETS AND SUPPORTS ARE NOT SHOWN FOR CLARITY, ALL NECESSARY SUPPORTS AND BRACKETS FOR PIPEWORK, VALVES, FLANGES ETC, SHALL BE INCLUDED AS DESCRIBED WITHIN THE BUILDING SERVICES SPECIFICATION.

5. THERMAL INSULATION IS NOT SHOWN FOR CLARITY, ALL NECESSARY INSULATION SHALL BE INCLUDED AS DESCRIBED WITHIN THE BUILDING SERVICES SPECIFICATION.
6. THE BUILDING SERVICES SUB-CONTRACTOR SHALL INCLUDE FOR ALL NECESSARY BENDS AND OFFSETS TO PROVIDE A FULLY CO-ORDINATED INSTALLATION WITH MECHANICAL SERVICES, ELECTRICAL SERVICES AND STRUCTURE.

7. ALTHOUGH NOT SHOWN AT EACH HIGH POINT AIR VENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATION.

8. ALTHOUGH NOT SHOWN AT EACH LOW POINT DRAIN COCKS SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATION.

9. PIPEWORK DROPPING INSIDE PARTITIONS TO BE FULLY WELDED THROUGHOUT. TEES AND ELBOWS TO BE ON OUTSIDE OF PARTITIONS TO BE BOXED IN BY BUILDER.

10. THE BUILDING SERVICES CONTRACTOR SHALL MAKE ALL DUE ALLOWANCES FOR THE THERMAL EXPANSION/CONTRACTION OF ALL PIPEWORK THROUGH NATURAL FLEXIBILITY SOLUTIONS NOT BELLOWS.

CONTRACTOR TO INVESTIGATE BOXING OUT AND COORDINATE PROPOSED SERVICES WITH ARCHITECTURAL PLAN

EXISTING HOT WATER CALORIFIER TO BE DRAINED AND RECOMMISSIONED WITH NEW LTHW FLOW TEMPERATURE FOLLOWING LOSS OF TEMPERATURE OFF OF THE NEW PLATE HEAT EXCHANGER

2No. NEW HIGH EFFICIENCY 45kW BOILERS TO BE INSTALLED IN AN N+1 ARRANGEMENT

PLATE HEAT EXCHANGER TO BE INSTALLED TO PROTECT NEW BOILERS FROM AGING LTHW DISTRIBUTION AND ANY POTENTIAL WATER QUALITY ISSUES

800L EXPANSION VESSEL TO SERVE SECONDARY SIDE OF LTHW SYSTEM - CONTRACTOR TO INVESTIGATE AND CONFIRM WORKING PRESSURE PRESSURE VALUE

DUST EXTRACT VENTILATION DUCTWORK SIZE AND ROUTING TO BE CONFIRMED BY SPECIALIST

NEW RADIATORS TO SERVE WORKSHOP SPACES TO CONNECT ONTO EXISTING LTHW FLOW AND RETURN PIPEWORK ROUTED AROUND THE PERIMETER OF THE SPACE.

TITLE  
REV

04/06/2023  
DATE

STAGE 4 TENDER ISSUE  
DESCRIPTION

TW  
BY

JP  
LC

CPW

www.cpw.com

Address  
Third Floor, Bolsover House  
5-6 Clipstone Street, London  
W1W 6BB

Phone  
+ 44 (0) 203 870 4790

Email  
london@cpw.com

RIBA STAGE

STAGE 4

STATUS

TENDER

CLIENT  
NHS TRUST

PROJECT  
CTC WORKSHOP RELOCATION

DRAWING TITLE  
PROPOSED HVAC LAYOUT

SCALE (A1)  
1:50

DATE  
JUNE 2023

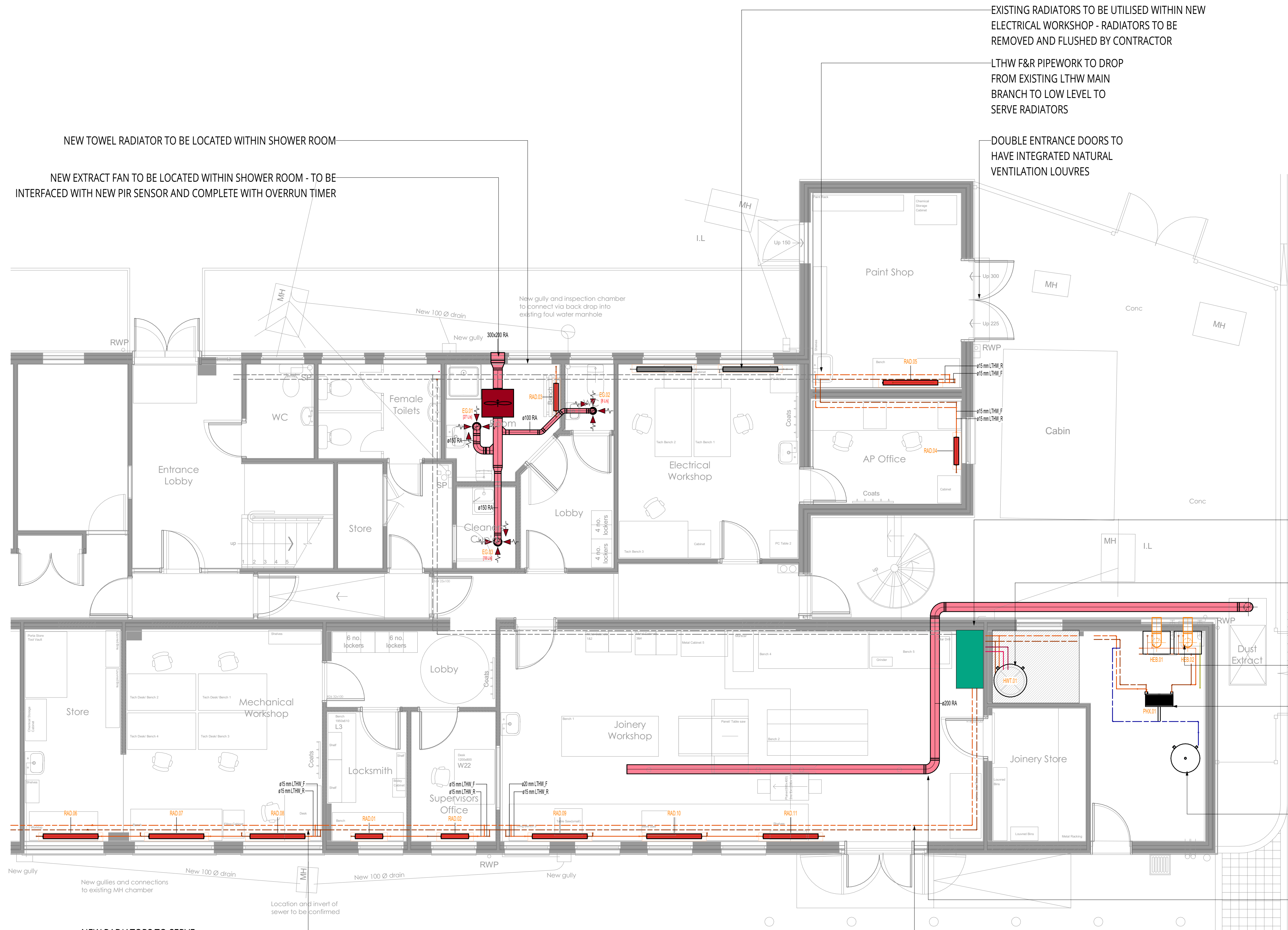
BY  
TW

VE  
JP

| Proj ID | Originator | Volume | Level | Type | Role | Number | Suitability | Revision |
|---------|------------|--------|-------|------|------|--------|-------------|----------|
| 230114  | CPW        | ZZ     | 00    | DR   | M    | 12101  | S4          | T01      |

230114-CPW-ZZ-00-DR-M-12101 S4 T01  
CPW Project No. 230114

LINKED FILES  
d230518 Proposed Layout



NEW TOWEL RADIATOR TO BE LOCATED WITHIN SHOWER ROOM -

NEW EXTRACT FAN TO BE LOCATED WITHIN SHOWER ROOM - TO BE INTERFACED WITH NEW PIR SENSOR AND COMPLETE WITH OVERRUN TIMER

EXISTING RADIATORS TO BE UTILISED WITHIN NEW ELECTRICAL WORKSHOP - RADIATORS TO BE REMOVED AND FLUSHED BY CONTRACTOR

LTHW F&R PIPEWORK TO DROP FROM EXISTING LTHW MAIN BRANCH TO LOW LEVEL TO SERVE RADIATORS

DOUBLE ENTRANCE DOORS TO HAVE INTEGRATED NATURAL VENTILATION LOUVRES

NEW RADIATORS TO SERVE WORKSHOP SPACES TO CONNECT ONTO EXISTING LTHW FLOW AND RETURN PIPEWORK ROUTED AROUND THE PERIMETER OF THE SPACE.

| High Efficiency Boiler Schedule |             |        |
|---------------------------------|-------------|--------|
| Mark                            | Model       | Output |
| HEB.01                          | TopGas (50) | 45kW   |
| HEB.02                          | TopGas (50) | 45kW   |

1. BOILERS TO BE MANUFACTURED BY HOVAL

| Extract Fan Schedule |             |       |
|----------------------|-------------|-------|
| Mark                 | Model       | Duty  |
| EF.01                | DAVE DE2-ES | 52L/s |

1. EXTRACT FAN TO BE MANUFACTURED BY NUAIRE

| Radiator Schedule |                    |        |                |                |
|-------------------|--------------------|--------|----------------|----------------|
| Mark              | Model              | Output | CPW_DIM_Length | CPW_DIM_Height |
| RAD.01            | CLASSIC COMPACT K2 | 0.75kW | 600            | 600            |
| RAD.02            | CLASSIC COMPACT K2 | 0.75kW | 600            | 600            |
| RAD.03            | CLASSIC COMPACT K2 | 0.8kW  | 600            | 1200           |
| RAD.04            | CLASSIC COMPACT K2 | 1.8kW  | 600            | 600            |
| RAD.05            | CLASSIC COMPACT K2 | 3.2kW  | 1200           | 600            |
| RAD.06            | CLASSIC COMPACT K2 | 0.9kW  | 1200           | 600            |
| RAD.07            | CLASSIC COMPACT K2 | 0.9kW  | 1200           | 600            |
| RAD.08            | CLASSIC COMPACT K2 | 0.9kW  | 1200           | 600            |
| RAD.09            | CLASSIC COMPACT K2 | 1.25kW | 1200           | 600            |
| RAD.10            | CLASSIC COMPACT K2 | 1.25kW | 1200           | 600            |
| RAD.11            | CLASSIC COMPACT K2 | 1.25kW | 1200           | 600            |

1. RADIATORS TO BE MANUFACTURED BY STELRAD