

MECHANICAL SERVICES

Scale 1:25

ALL WINDOWS TO HAVE IN-BUILT TRICKLE VENTILATORS OF MAXIMUM AREA - ACCESSIBLE FOR OPERATION BY ROOM OCCUPANTS

LOW SURFACE TEMPERATURE (LST) HEATING RADIATOR LOCATED BELOW WINDOW. CILL HEIGHT 600 mm. FLOW & RETURN PIPEWORK 22Ø LOCATED WITHIN FULL LENGTH LOW LEVEL REMOVABLE BUILDERSWORK SKIRTING COVER TO ARCHITECT DESIGN AND DETAIL. RADIATOR TO HAVE THERMOSTATIC CONTROL VALVE WITH REMOTE SENSOR AND HEAD AND SET POINT ADJUSTMENT. SEE M01-M04 FOR HEATING MAINS LOCATION

BEDROOM COOLING ONLY DX TYPE LOW HEIGHT CHASSIS UNIT IN ACCESSIBLE CEILING VOID WITH SUPPLY & RETURN AIR DUCTWORK & GRILLES, WITH LOCAL ROOM TIME & TEMPERATURE CONTROL. LOW NOISE AND VIBRATION ISOLATED

ELECTRICAL TOWEL RAIL FOR HEATING IN SHOWER ROOMS

BATHROOM DOORS TO HAVE LOW LEVEL NON-VISION AIR TRANSFER GRILLS (450x150)mm

EXTRACT SYSTEM COMPRISING 100Ø DUCTWORK WITH FLEXIBLE CONNECTION TO TERMINAL VALVE. WITH IRIS DAMPER FOR COMMISSIONING. FLEXIBLE DUCT BENDS NOT ACCEPTABLE

EXTRACT RISER DUCT 150Ø RISES FROM FIRST TO THIRD FLOOR ROOF VOID FOR CONNECTION TO TWIN EXTRACT FAN, WITH FIRE DAMPERS IN SLAB AT ALL LEVELS

WATER SERVICES MAINS IN CEILING VOID: MCWS, HWSF, HWSR, BCWS

ISOLATION VALVES & DRAIN COCKS SHALL ALLOW EACH EN-SUITE TO BE INDEPENDENTLY SERVICES

POTABLE MCWS 15 TO ALL WHB COLD TAPS FOR DRINKING USE. WHB HOT WATER TEMPERATURE TO BE CONTROLLED VIA LOCKABLE THERMOSTATIC BLENDING VALVES IN RISER DUCT. VALVES TO PROVIDE MAX WATER TEMP OF 43 deg C ALL BASIN TAPS TO BE LEVER ACTION TYPE

WC OVERFLOWS TO DISCHARGE INTO BOWL VIA SYPHON PIPE

SHOWER THERMOSTATIC BLENDING VALVES SHALL BE LOCKABLE TO PROVIDE A MAX WATER TEMP OF 43 deg C

SERVICES ACCESS

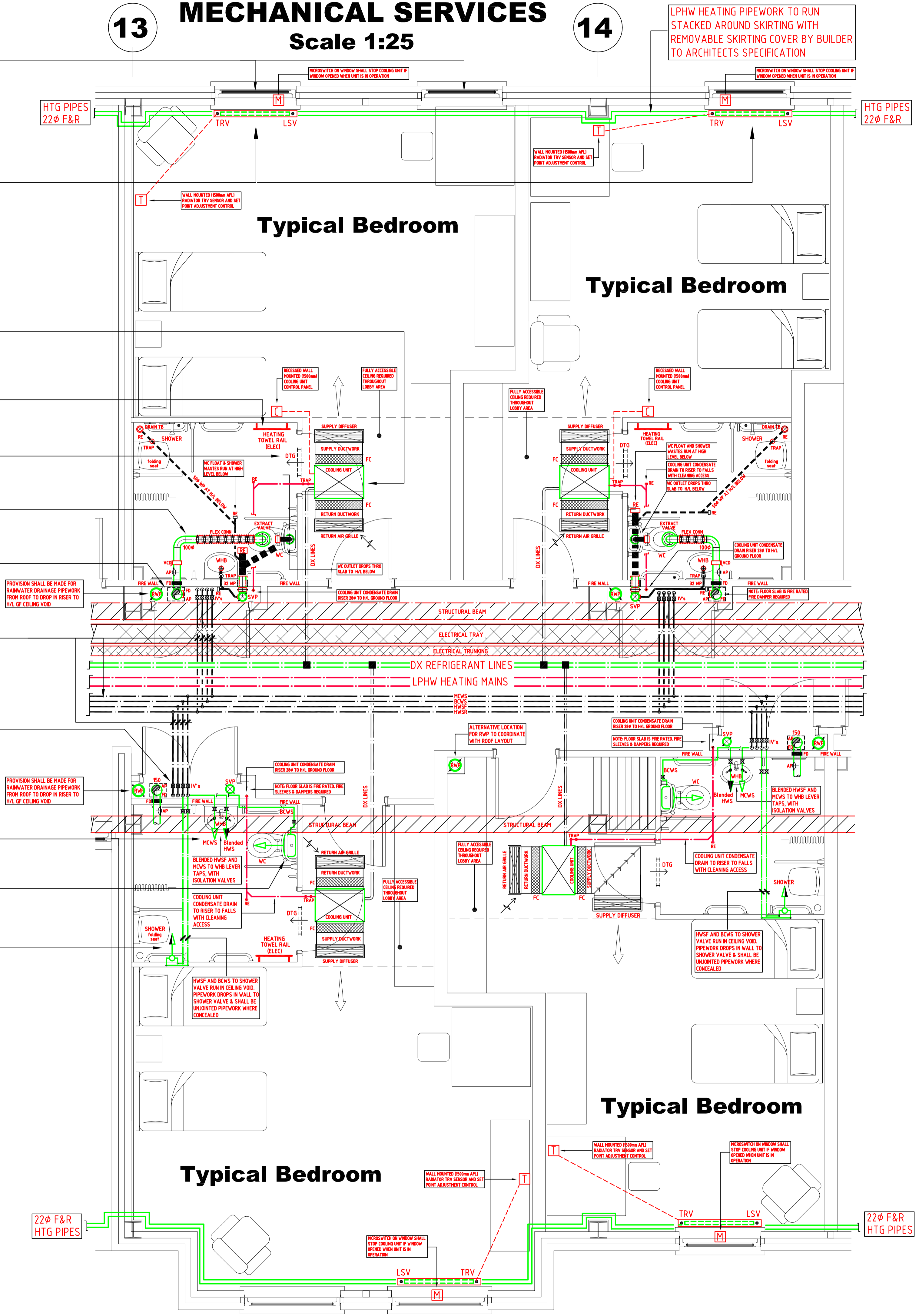
1.0 SHOWER WASTES SHALL BE ACCESSIBLE FROM FLOOR BELOW

2.0 ALL PIPEWORK TO BE PROVIDED WITH FULL PERMANENT MAINTENANCE ACCESS

3.0 BATHROOM CEILINGS TO BE FULLY ACCESSIBLE

4.0 BATHROOM DOORS TO HAVE NON-VISION AIR TRANSFER GRILLE (400x150) APPROX

5.0 FULL HEIGHT ACCESS REQUIRED TO ALL SERVICES RISER DUCTS FROM ADJACENT CORRIDORS



MECHANICAL SERVICES - HVAC

General

THE CONTRACTOR SHALL DESIGN, INSTALL, TEST AND COMMISSION THE HEATING, VENTILATION COOLING SYSTEMS, IN ACCORDANCE WITH ALL INDUSTRY REGULATIONS, RELAVENT CODES OF PRACTICE AND BUILDING CONTROL REQUIREMENTS.

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ROOM DATA SHEETS

Legend

MCWS	MAINS COLD WATER SERVICE
BCWS	BOOSTED COLD WATER SERVICE
HWS F	HOT WATER SERVICE FLOW
HWS R	HOT WATER SERVICE RETURN
IV	ISOLATION VALVE
TRV	THERMOSTATIC RADIATOR VALVE
LSV	LOCK SHIELD VALVE
FC	FLEXIBLE CONNECTION
FD	DUCT FIRE DAMPER
AP	DUCT ACCESS PANEL
RWP	RAIN WATER PIPE
SVP	SOIL VENT PIPE
WP	WASTE PIPE
RE	RODDING EYE
FA	FROM ABOVE
TB	TO BELOW

SERVICES NOTES

1.0 ALL SERVICES PASSING THROUGH FIRE RATED WALLS AND SLABS SHALL HAVE APPROPRIATE FIRE SLEEVES AND SEALS IN ACCORDANCE WITH BUILDING CONTROL REQUIREMENTS

2.0 A MICROSWITCH ON THE OPENABLE WINDOW SHALL STOP THE OPERATION OF THE COOLING UNIT WHEN ACTIVATED

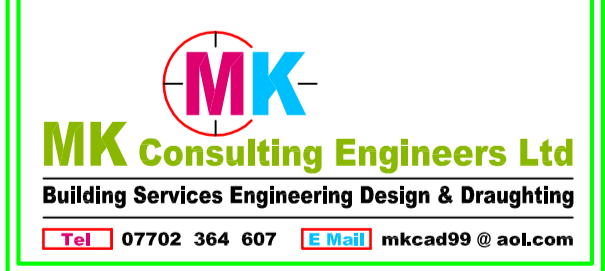
3.0 ALL SERVICES SHALL BE DDA COMPLIANT

Rev	Description	Date
C	CONTRACT ISSUE	-
T	TENDER ISSUE	-

client
THE ROYAL BRITISH LEGION

architect
ARMSTRONG BURTON ARCHITECTS

project
ROYAL BRITISH LEGION
WESTON-SUPER-MARE



Drawing Title
MECHANICAL SERVICES
TYPICAL ROOM LAYOUT
MECHANICAL SERVICES

Scale	NTS	Drawn	AK
Date	-	Checked	AK

Drawing Number	MK/698/SAMPLE	Revision	C
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Drawing Status
CONTRACT ISSUE

Drawings List

ES 01	TYPICAL BEDROOM, MECHANICAL SERVICES
ES 01	TYPICAL BEDROOM, ELECTRICAL SERVICES
ES 01	SITE PLAN, INCOMING SERVICES EXT LIGHTING
ES 01	KITCHEN SERVICES
M 01	GF HVAC SERVICES
M 02	FF HVAC SERVICES
M 03	SF HVAC SERVICES
M 04	TF HVAC SERVICES
M 05	GF / FF WATER SERVICES & DRAINAGE
M 06	SF / TF WATER SERVICES & DRAINAGE
M 07	ROOF PLAN PLANT LAYOUT
M 08	AIR CONDITIONING SCHEMATIC
M 09	HEATING & VENTILATION SCHEMATIC
E 01	GF LIGHTING & FIRE ALARM
E 02	FF LIGHTING & FIRE ALARM
E 03	TF LIGHTING & FIRE ALARM
E 04	GF / FF LIGHTING & FIRE ALARM
E 05	GF / FF POWER & ANCILLARY
E 06	SF / TF POWER & ANCILLARY
E 07	ROOF PLAN LIGHTING, POWER & LIGHTNING PROTECTION