



KEY

- NET U/F HEATING (300mm C/C's)
- NET U/F HEATING (200mm C/C's)
- ELECTRIC U/F HEATING
- TS - TRIMBLE SENSOR (DUAL)
- CS/LS - COMFORT/LIMIT SENSOR (IN FLOOR)
- RC - ROOM CONTROLLER
- T - THERMOSTAT
- TR - TOWER RAIL
- R - RADATOR

- NOTES**
- ALL FLOOR FINISHES & RUGS/CARPETS MUST BE SUITABLE & APPROVED FOR U/F HEATING. CARPET TOG VALUES (CARPET & UNDERLAY MUST NOT EXCEED 1.5 OVERALL)
 - ALL FLOOR FINISHES MUST NOT EXCEED 30mm BUILDUP AND NO INSULATION LAYERS ADDED/UTILISED, ON TOP OF HEATING ELEMENTS/PIPES.
 - ALL FLOOR FINISHES/BUILD UPS/CONSTRUCTION TBC BY THE U/F HEATING INSTALLER DESIGNER.
 - SCREED AREAS MINIMUM OF 65mm SCREED (REINFORCED/GRAZED) AS REQUIRED.
 - ALL PRE-DOOR THRESHOLD TRANSITIONS SHALL UTILISE WOODEN BLOCKS OR EXPANSION JOINTS.
 - ALL U/F PIPES PASSING THROUGH ANOTHER ZONE WILL BE FULLY INSULATED WITH PIPE INSULATION.
 - ROOM EDGE AND DOOR THRESHOLD EXPANSION JOINTS TO BE INCLUDED.
 - ALL FLOOR LEVELLING TO BE UNDERTAKEN BELOW THE U/F HEATING LAYER - NOT IN THE FINISHES.
 - ALL RADATORS AND TOWER RAILS TO BE PROVIDED WITH AIR VALVES IN STANDARD.
 - THE LOCATION OF EQUIPMENT AND SERVICES SHOWN ON THESE DRAWINGS IS INDICATIVE, THE DESIGNER MUST SEEK THE AGREEMENT/APPROVAL FROM THE ARCHITECT/CLIENT AS TO THE FINAL AGREED POSITIONS.
 - THE SUB CONTRACTOR SHALL BE RESPONSIBLE FOR THE FULL COORDINATION OF ALL SERVICES INSTALLATION AND THE COORDINATION OF ROUTES WITH OTHER INSTALLERS.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER DESIGN SERVICES LAYOUTS.
 - ALL CS/LS SENSORS TO HAVE A BACK BOX/POH PLATE OR BE ACCESSIBLE IN A VOID.
 - ALL LINKING PIPES FROM MANIFOLD TO U/F ZONE TO BE INSULATED IN 19mm ARMATEX WHEN PASSING THROUGH ANOTHER ZONE. RUN PIPEWORK ALONG PERIMETER OR NOTCHED/CHASED IF REQUIRED. SEE U/F DETAILS.
 - TOWER RAILS BY SHH. FINAL POSITIONS TBC.

REVISIONS

Rev./Date	REVISIONS
P 23.02.17	PRELIMINARY ISSUE
P1 21.04.17	FOR COMMENT
P2 03.07.17	STAGE 3 ISSUE
T 08.12.17	STAGE 1 TENDER ISSUE
T1 20.03.18	STAGE 1 TENDER ADDENDUM
C 23.05.18	CONTRACT ISSUE

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Scale: **A0 @ 1:50** Drawn: **PK / CA**
 Date: **July 2017** Checked: **PK**

Issue: **CONTRACT**

Project No.	Services	Draw No.	Rev.
633	M	1	C

Basement