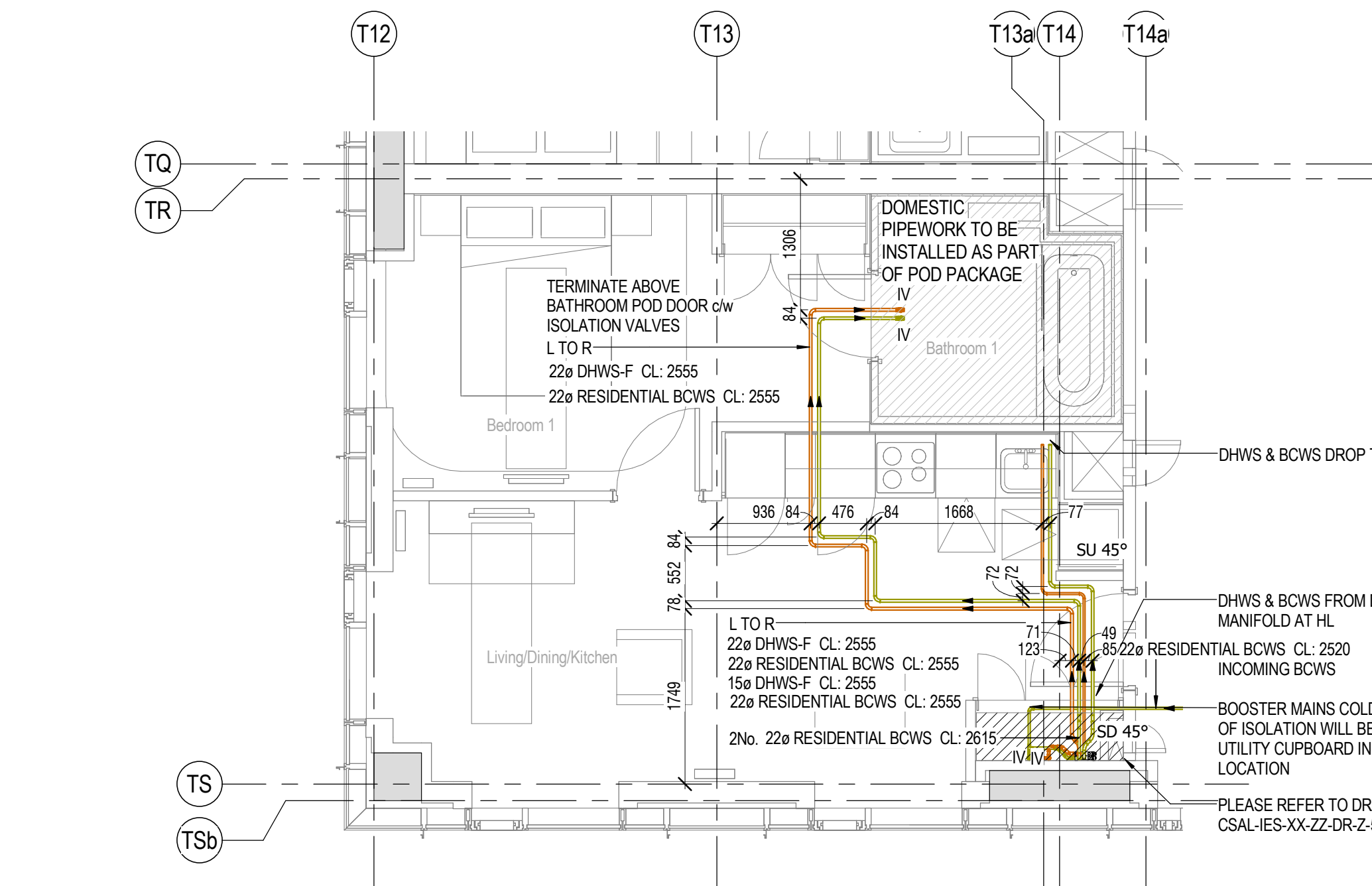
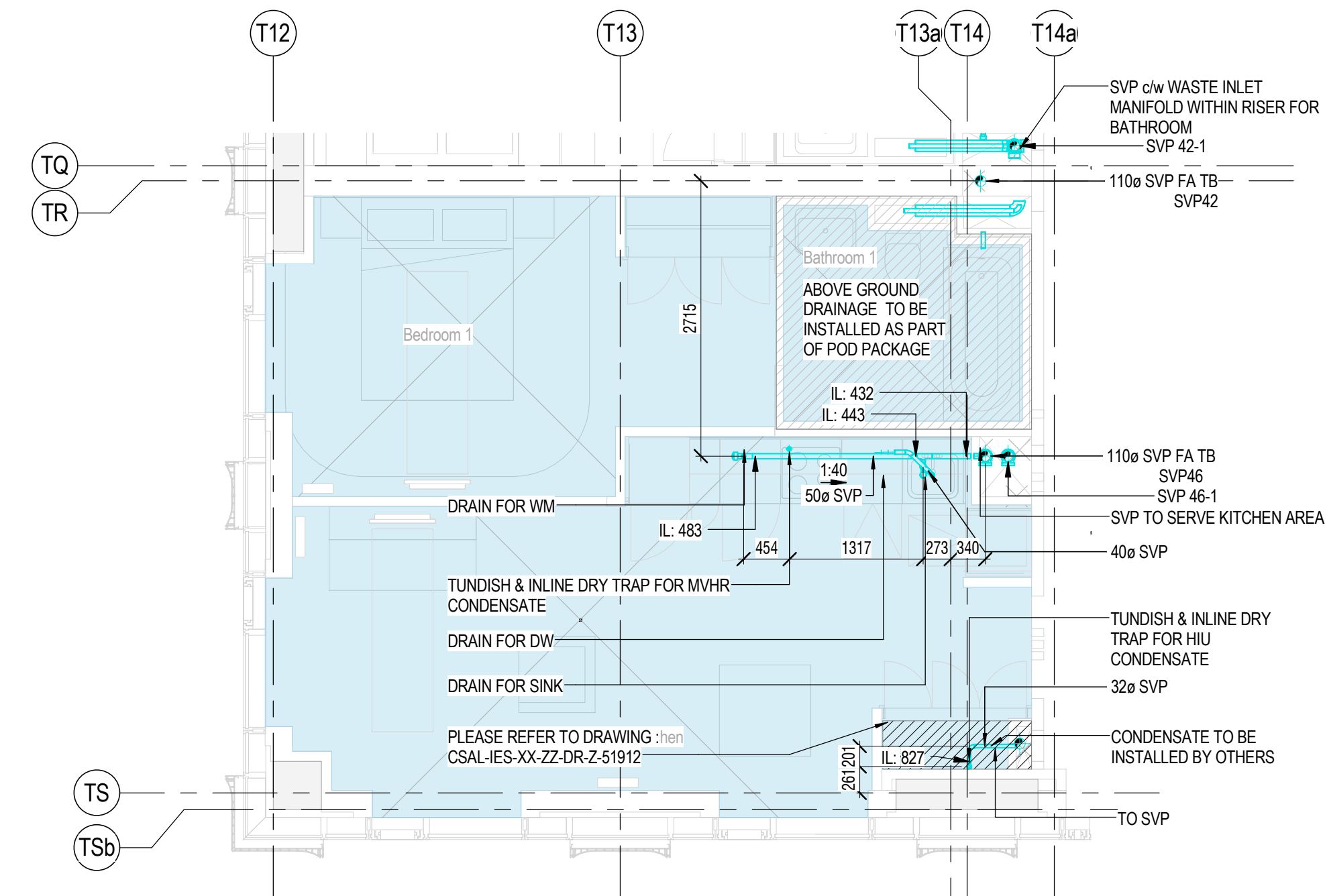
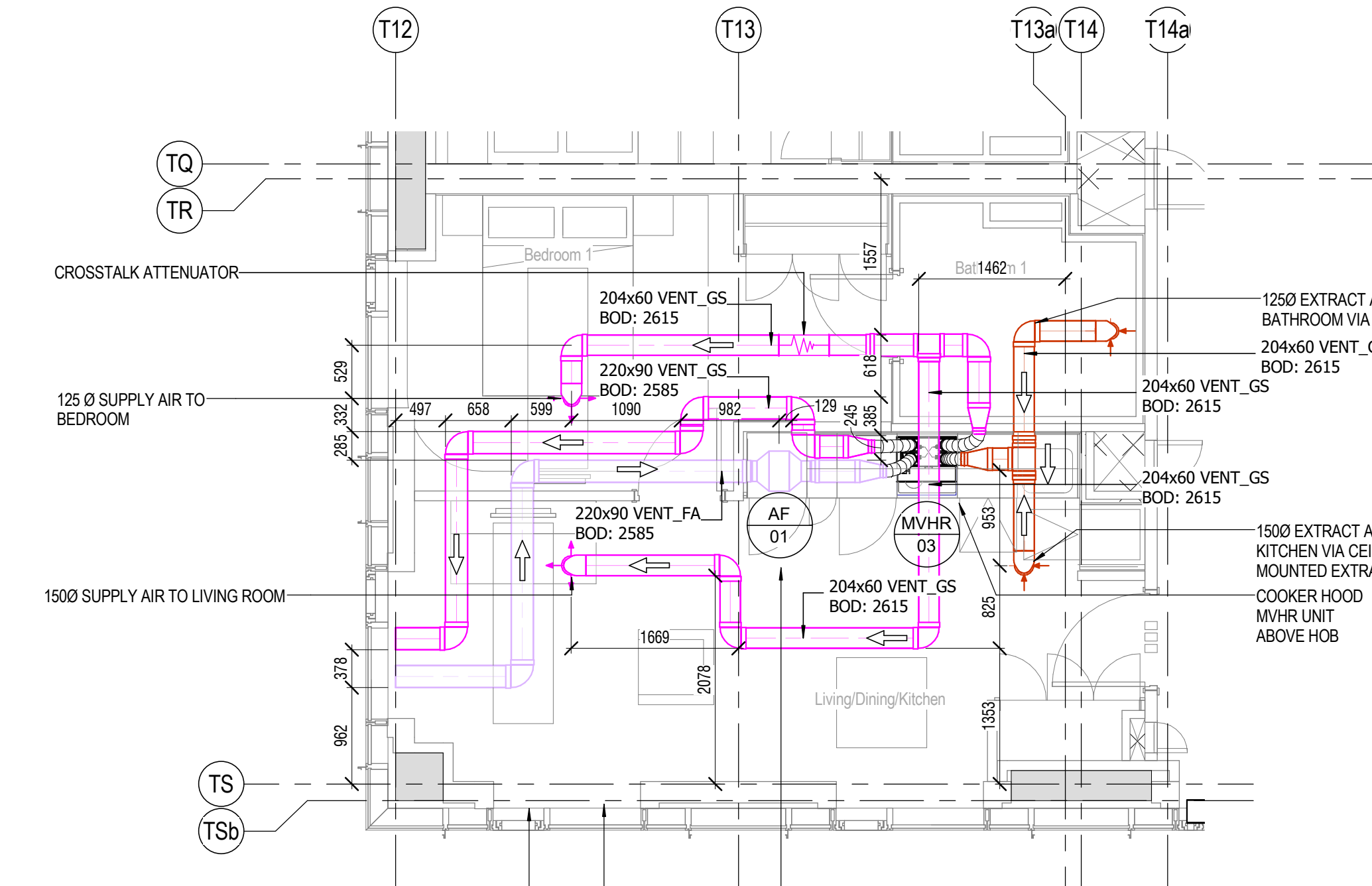




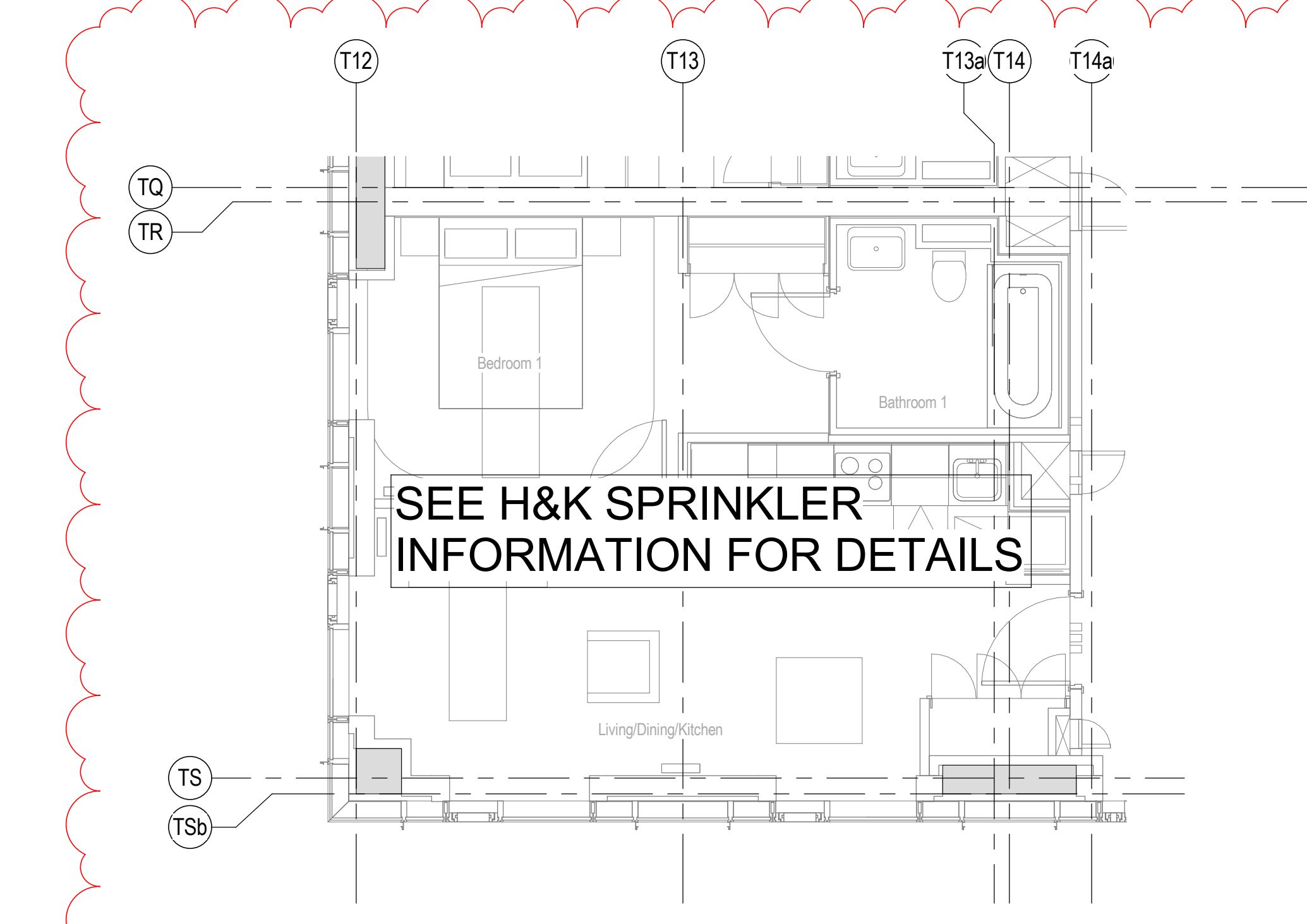
1 T1 - DOMESTIC WATER SERVICES - TYPICAL 1 BED LEVEL 1 - APARTMENT 1B-T1
1:50



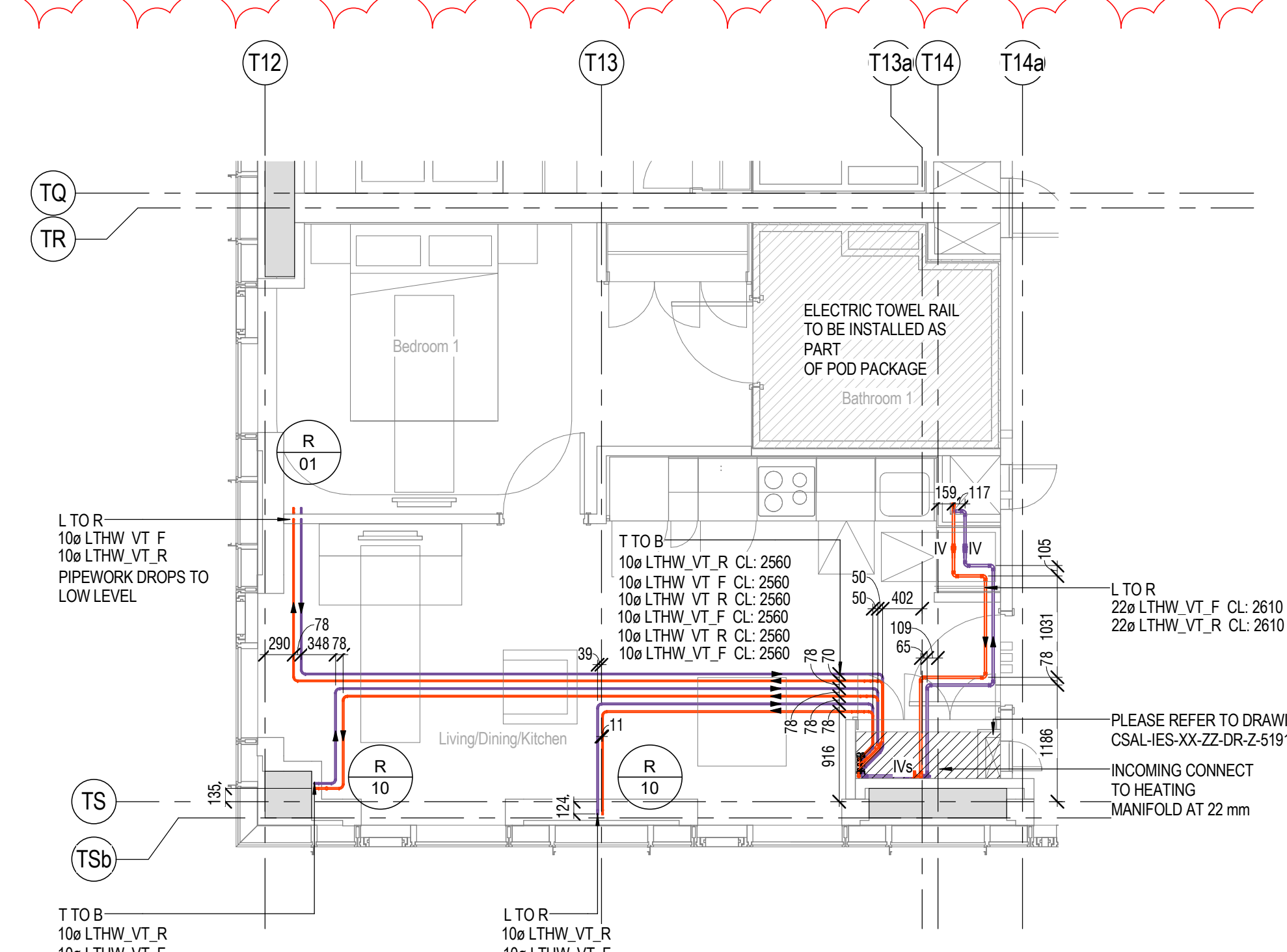
2 T1 - ABOVE GROUND DRAINAGE - TYPICAL 1 BED LEVEL 1 - APARTMENT 1B-T1
1:50



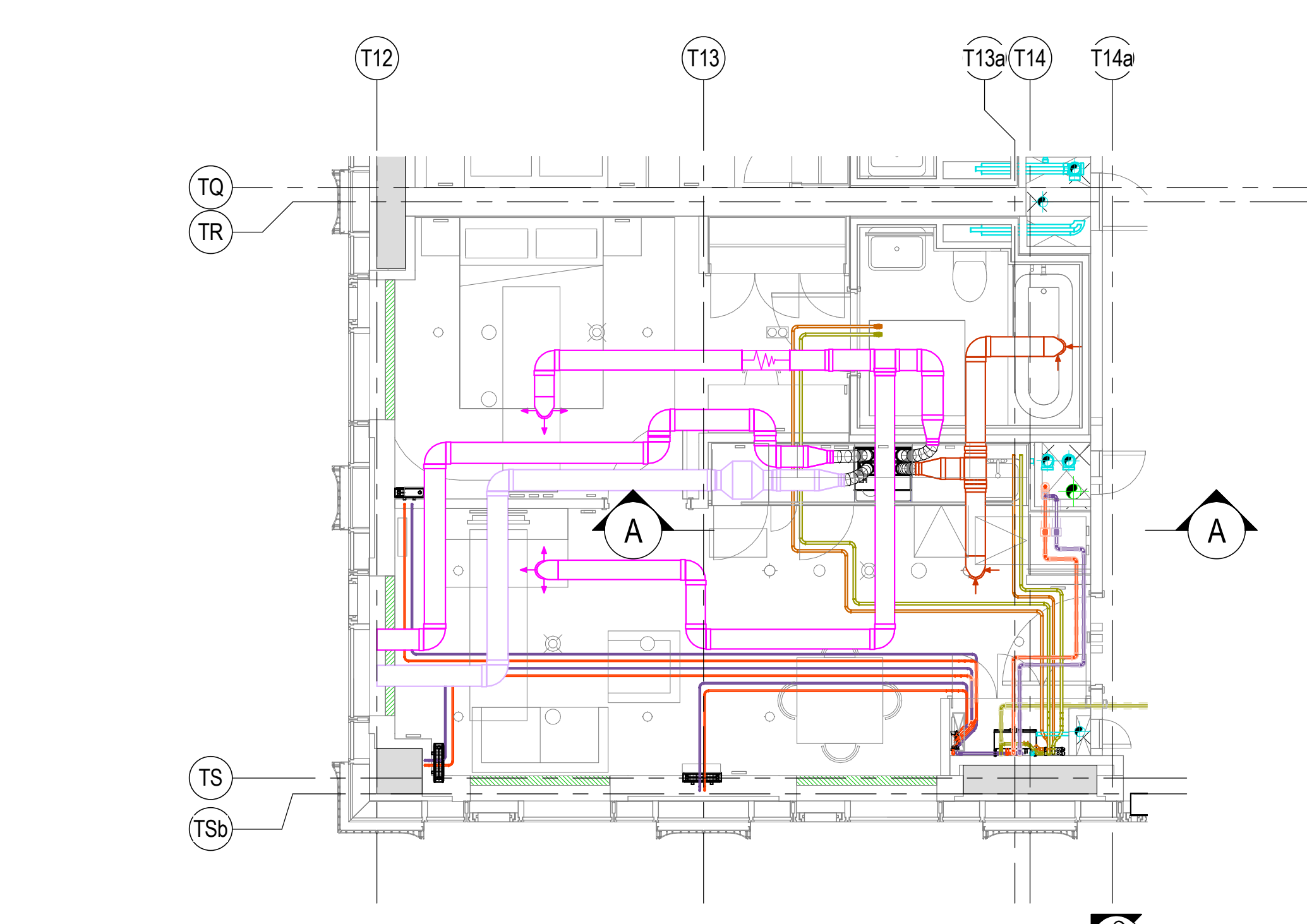
3 T1 - VENTILATION - TYPICAL 1 BED LEVEL 1 - APARTMENT 1B-T1
1:50



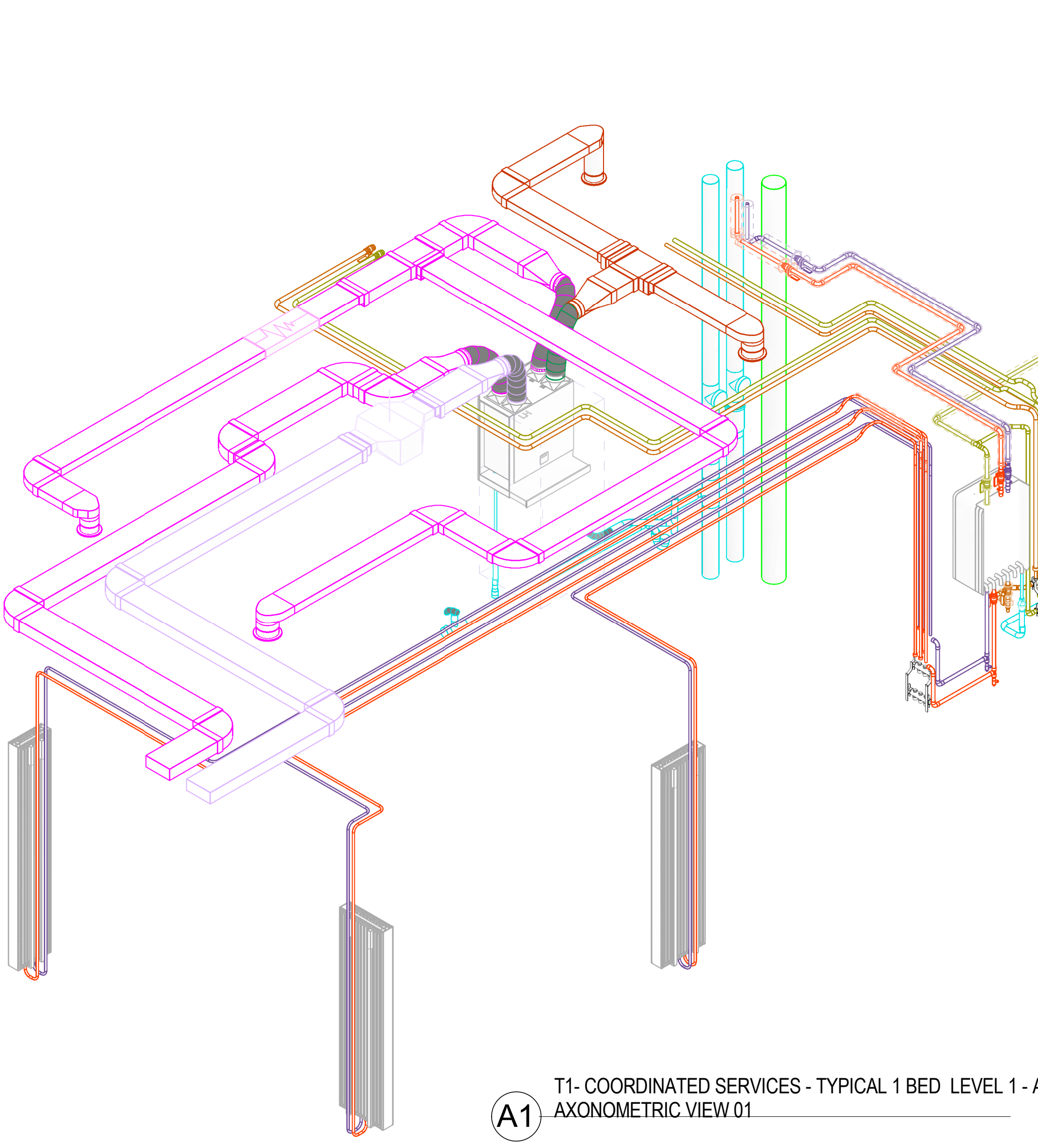
4 T1 - SPRINKLERS - TYPICAL 1 BED LEVEL 1 - APARTMENT 1B-T1
1:50



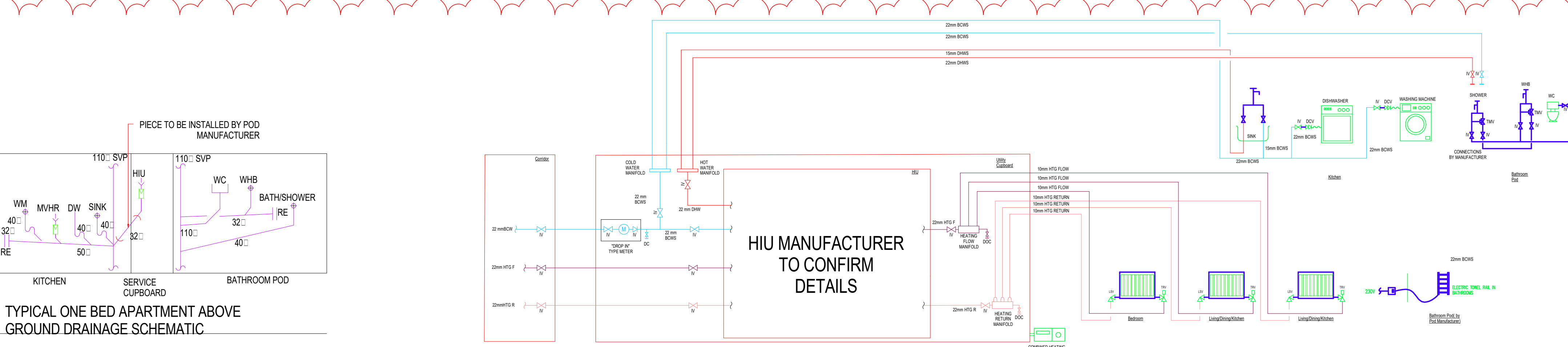
5 T1 - HEATING - TYPICAL 1 BED LEVEL 1 - APARTMENT 1B-T1
1:50



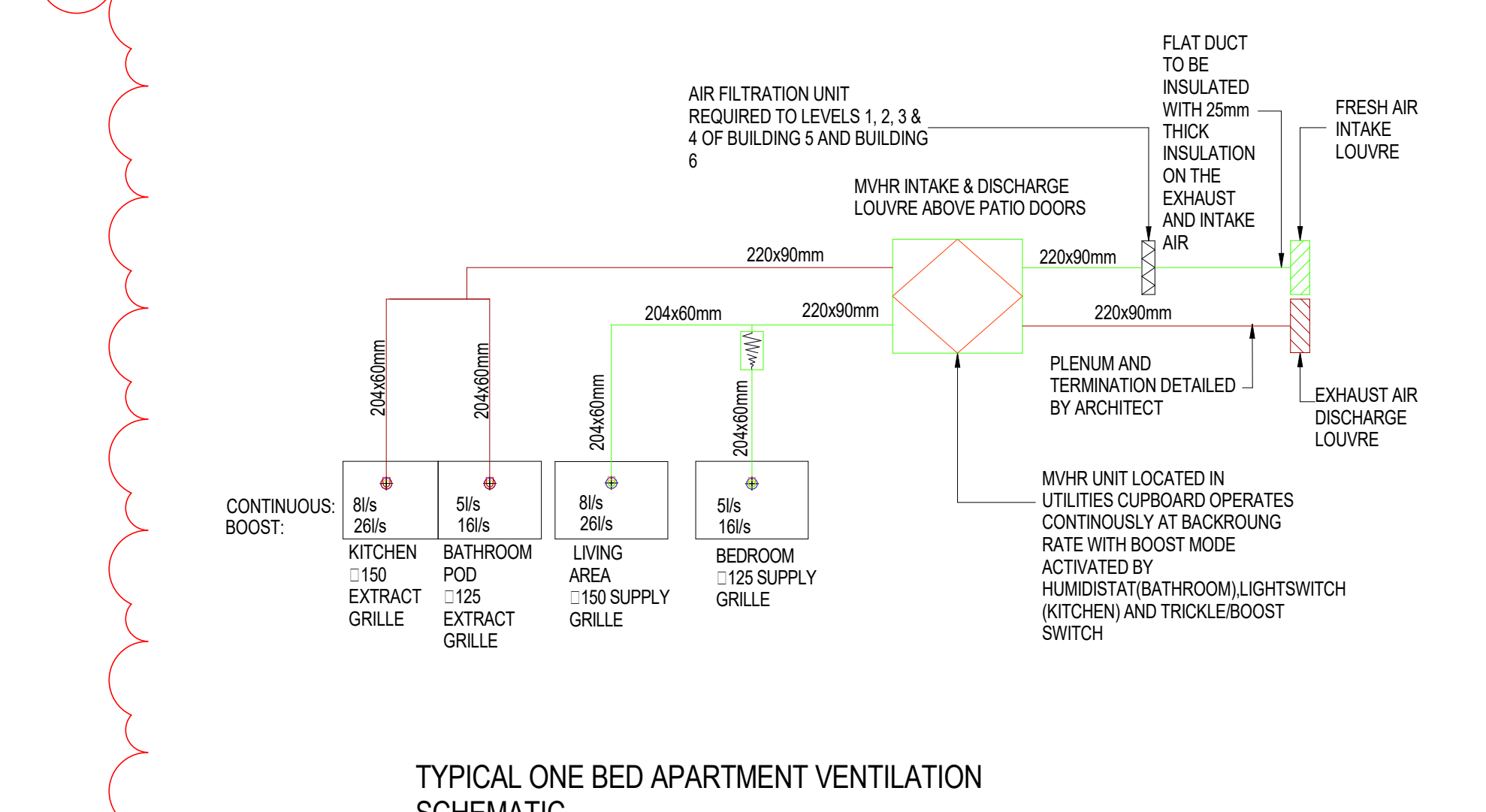
6 T1 - COORDINATED SERVICES - TYPICAL 1 BED LEVEL 1 - APARTMENT 1B-T1
1:50



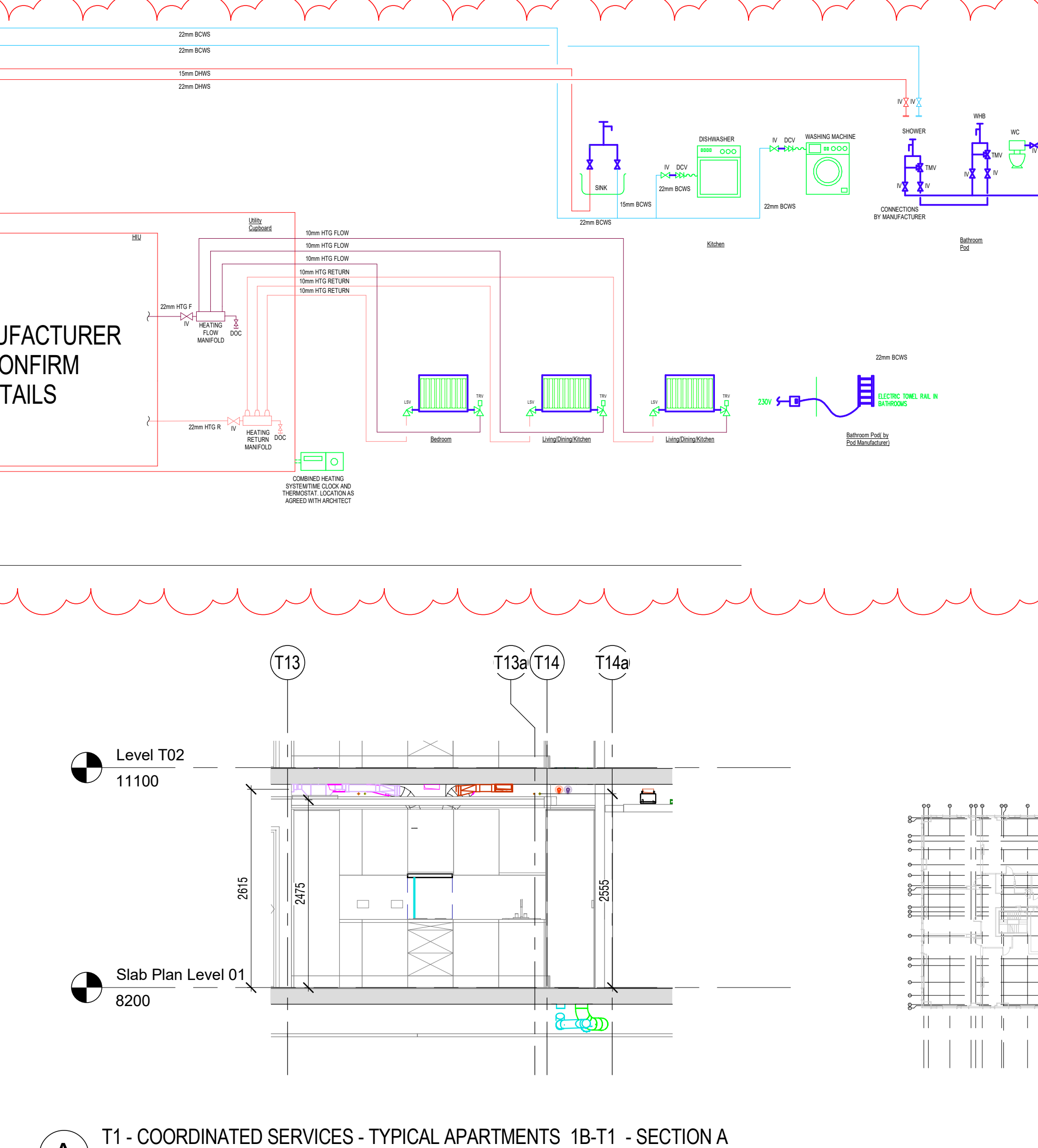
A1 T1 - COORDINATED SERVICES - TYPICAL 1 BED LEVEL 1 - APARTMENT 1B-T1 - AXONOMETRIC VIEW 01



TYPICAL ONE BED APARTMENT HEATING & DOMESTIC SERVICES SCHEMATIC



TYPICAL ONE BED APARTMENT VENTILATION SCHEMATIC



A T1 - COORDINATED SERVICES - TYPICAL APARTMENTS 1B-T1 - SECTION A
1:50

LEGEND

- AIR VALVE
- CHORD TALK ATTENUATOR
- DOUBLE CHECK VALVE
- DRAIN COCK
- FLUSHING VALVE
- HEAT INTERFACE UNIT
- HEAT METER
- ISOLATING VALVE
- METER
- METER STATION
- ONOFF VALVE
- PANTRY
- PRESSURE ABSORBER c/w NRV
- PRESSURE GAUGE
- PRESSURE RELIEF VALVE
- ROODING EYE
- TEMPERATURE GAUGE
- TEST POINT
- THERMOSTATIC VALVE

VENTILATION

- GS GENERAL SUPPLY
- GE GENERAL EXTRACT
- FA FRESH AIR
- FE EXHAUST
- SE SMOKE EXTRACT
- FC FAN COIL
- KE KITCHEN EXTRACT
- CCED CIRCULAR CEILING EXTRACT DIFFUSER
- CSBY CEILING SUPPLY & EXTRACT VALVE
- F FILTER
- ATT ATTENUATOR
- MCDR MOTORISED OPPOSED BLADE DAMPER
- VCD VOLUME CONTROL DAMPER
- MD MOTORISED CONTROL DAMPER
- SD FIRE & SMOKE DAMPER
- HC HEAT COIL
- FAN FAN
- CPHX CROSS-FLOW PLATE HEAT EXCHANGER
- DF DIRECTION OF FLOW
- LSD LINEAR SLOT DIFFUSER
- CTA CROSS TALK ATTENUATOR
- EXLSD PASSIVE LINEAR SLOT FOR RETURN AIR PATH

NOTES

1. ALL INSULATED DOMESTIC COLD WATER PIPEWORK SHALL BE PROVIDED WITH VAPOUR SEAL.
2. DRAINCOCKS TO BE INSTALLED AT ALL LOW POINTS AND AIR VENTS AT ALL HIGH POINTS.
3. ALL PIPEWORK PASSING THROUGH FIRE BARRIERS AND WALLS TO PASS THROUGH FIRE SLEEVES.
4. EXACT LOCATIONS OF SANITARY WARE SHALL BE AGREED WITH THE ARCHITECTS PRIOR TO INSTALLATION.
5. DEAD LEGS ON HOT WATER SERVICES SHALL BE KEPT TO A MINIMUM.
6. FIRE COLLARS SHALL BE INSTALLED WHERE DRAINAGE PIPE CROSS FIRE COMPARTMENTS.
7. THE INSTALLATION OF THE DRAINAGE SYSTEM SHALL COMPLY WITH BUILDING REGULATIONS PART H AND BS 12066.
8. ROOFING EYES SHALL BE INSTALLED AT THE BASE OF ALL STACKS AND ALL CHANGES IN DIRECTION.
9. EXPANSION JOINTS TO BE ADDED IN VERTICAL & HORIZONTAL PIPEWORK IN LINE WITH MANUFACTURERS RECOMMENDATIONS.
10. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH HVAC DW144 & DW172.
11. AIR GRILLES WITHIN APARTMENTS TO BE AIR VALVE TYPE.
12. FLEXI DUCTS SHALL BE A MAXIMUM OF 500mm AND SHALL NOT BE USED TO TAKE OUT BENDS AND DEVIATIONS.
13. VENTILATION WITHIN APARTMENTS TO COMPLY WITH BUILDING REGULATION PART F.
14. SPRINKLER LAYOUT SIZES TBC BY SPRINKLER INSTALLER SPECIALIST DESIGN.

REFERENCE DRAWINGS & MODELS

ARCHITECTURAL	CSAL-PCBS-ZT-ZZ-M3-A-001	P19
STRUCTURAL	CSAL-PCBS-ZT-ZZ-M3-A-002 FACADE	P04
STRUCTURAL	CSAL-CUR-ZT-ZZ-M3-S-001	P18

GENERAL:

- FROM ABOVE
- TO ABOVE
- FROM BELOW
- TO BELOW
- HIGH LEVEL
- LOW LEVEL
- MID LEVEL
- DTLL DROP TO LOW LEVEL
- RTLL RISE TO HIGH LEVEL
- SET UP
- SD SET DOWN
- FLL FINISHED FLOOR LEVEL
- SSL STRUCTURAL SLAB LEVEL
- APFL ABOVE FINISHED FLOOR LEVEL
- LEVEL TO UNDERFLOOR FROM FFL
- CL LEVEL TO CENTRE FROM FFL
- BOD BOTTOM OF DUCT FROM FFL

MECHANICAL:

- LTHW F LOW TEMPERATURE HOT WATER FLOW
- LTHW R LOW TEMPERATURE HOT WATER RETURN
- VRF VARIABLE REFRIGERANT FLOW
- IV ISOLATING VALVE
- NRV NON RETURN VALVE
- DOV DOUBLE CHECK VALVE
- DPV DIFFERENTIAL PRESSURE VALVE
- DPVY DIFFERENTIAL PRESSURE CONTROL VALVE
- 3PMV 3 PORT MOTORISED VALVE
- 2PMV 2 PORT MOTORISED VALVE
- STR STRAINER
- OP ORIFICE PLATE/METERING STATION
- CS COMMISSIONING STATION
- TP TEST POINT
- PP PURGE POINT
- GAUGES (T-TEMPERATURE, P-PRESSURE)
- SENSOR
- M METER
- FCU FAN COIL UNIT
- DAF DRY AIR COOLER
- AB AIR BOTTLE
- NC NORMALLY CLOSED
- FC FLEXIBLE CONNECTION
- DOC DRAIN COCK
- AV AIR VENT
- HE HEAT EXCHANGER
- RA RADIATOR
- PCV PRESSURE CONTROL VALVE
- GV GATE VALVE
- PRV PRESSURE REDUCING VALVE
- AAV AUTOMATIC AIR VENT
- WETR WET RISER
- DRV DOUBLE REGULATING VALVE
- LSV LOOKSHIELD VALVE

WATER:

- BCWS BOOSTED COLD WATER SERVICE
- CAT'S BOOSTED COLD WATER SERVICE CAT'S
- HWRS HOT WATER SERVICE RETURN
- MWS MAINS WATER SERVICE
- IV ISOLATING VALVE
- DRV DOUBLE REGULATING VALVE FOR HWS
- BALANCING (ALL LOW FLOW TYPE)
- NRV NON RETURN VALVE
- PRV PRESSURE REDUCING VALVE
- DOV DOUBLE CHECK VALVE
- DOC DRAIN COCK
- FS FLOW SWITCH
- PG PRESSURE GAUGE
- M METER

DRAINAGE:

- AAV AUTOMATIC ADMITTANCE VALVE
- FG FLOOR GULLY
- RE ROOFING EYE
- RWP RUNWATER PIPE
- SS STUB STACK
- SVP SOIL VENT PIPE
- SSVP GROUND SOIL VENT PIPE
- MSVP MEZZANINE SOIL VENT PIPE
- RSVP RETAIL SOIL VENT PIPE
- SWP SOIL WASTE PIPE
- VP VENT PIPE
- WP WASTE PIPE
- D DRAINAGE
- BSD BELOW GROUND DRAINAGE
- AP ACCESS POINT
- SNK SINK
- SKS KITCHEN SINK
- DW DISH WASHER
- WM WASHING MACHINE
- WMB WASH HAND BASIN
- WC WATER CLOSET
- SHR SHOWER
- BTH BATH
- 1XX FALL

INSULATION TABLE

SERVICE	PIPE MATERIAL	PIPE DIAMETER	INSULATION THICKNESS	INSULATION MATERIAL
LTHW F&R	COPPER	#15	25 mm	MINERAL WOOL
	STEEL	#15	30 mm	
	#15-#50	40 mm		
BCWS	COPPER	#15-#35	20 mm	MINERAL WOOL
	#42-#54	25 mm		
	#67-#108	30 mm		
DHW F&R	STAINL STEEL	#15-#42	25 mm	MINERAL WOOL
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