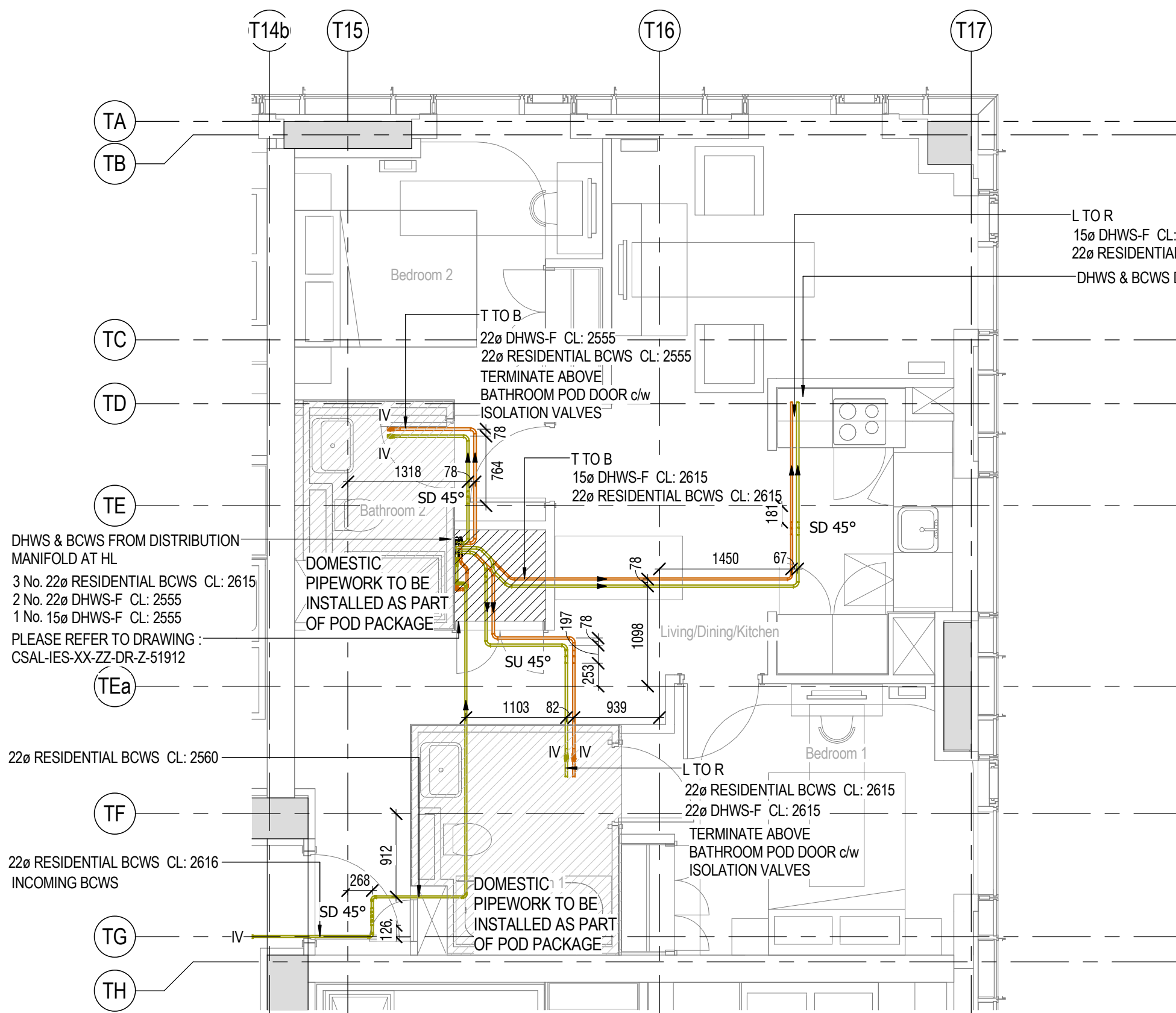
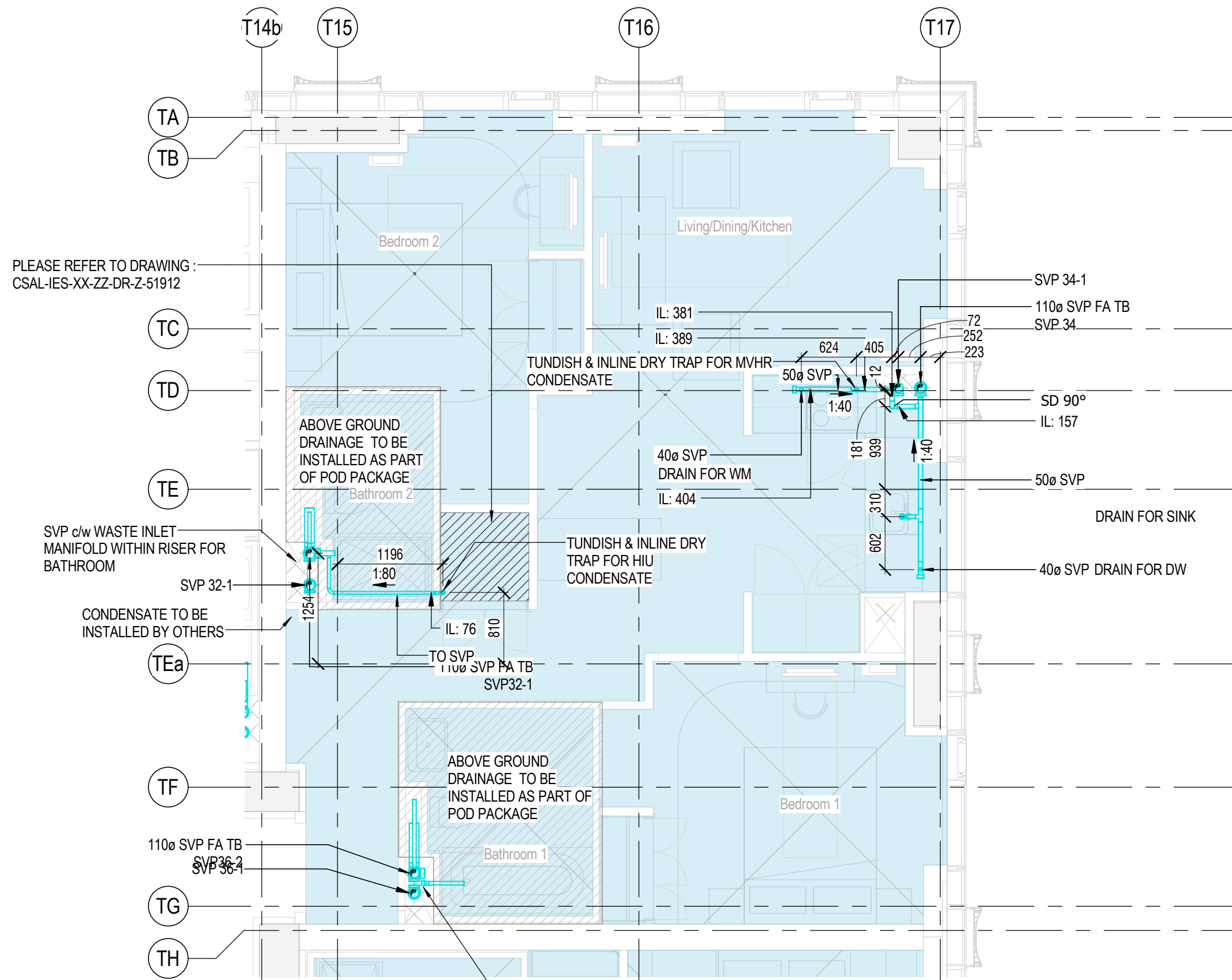




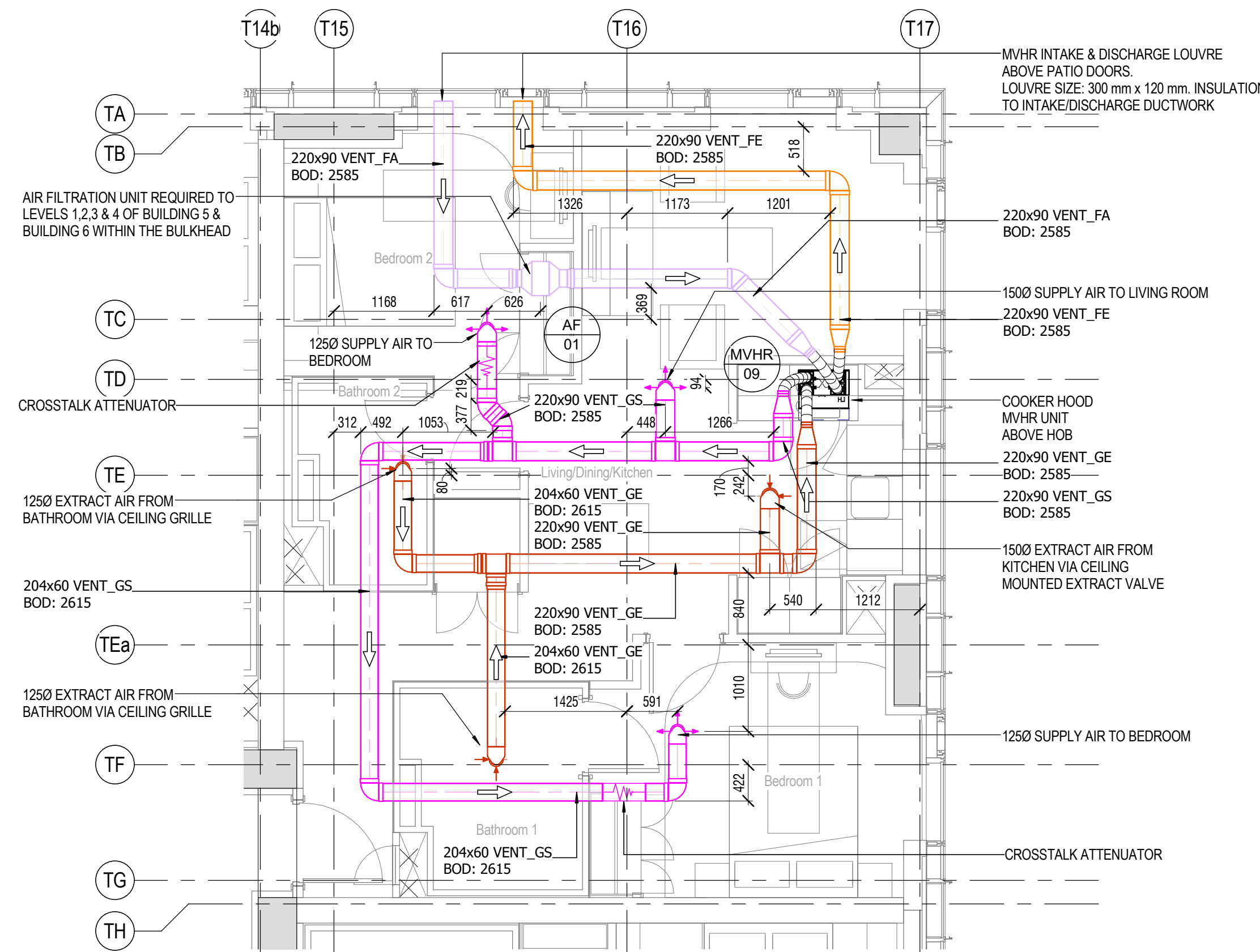
1 T5 - DOMESTIC WATER SERVICES - TYPICAL 2 BED LEVEL 1 - APARTMENT 2B-T5

1:50



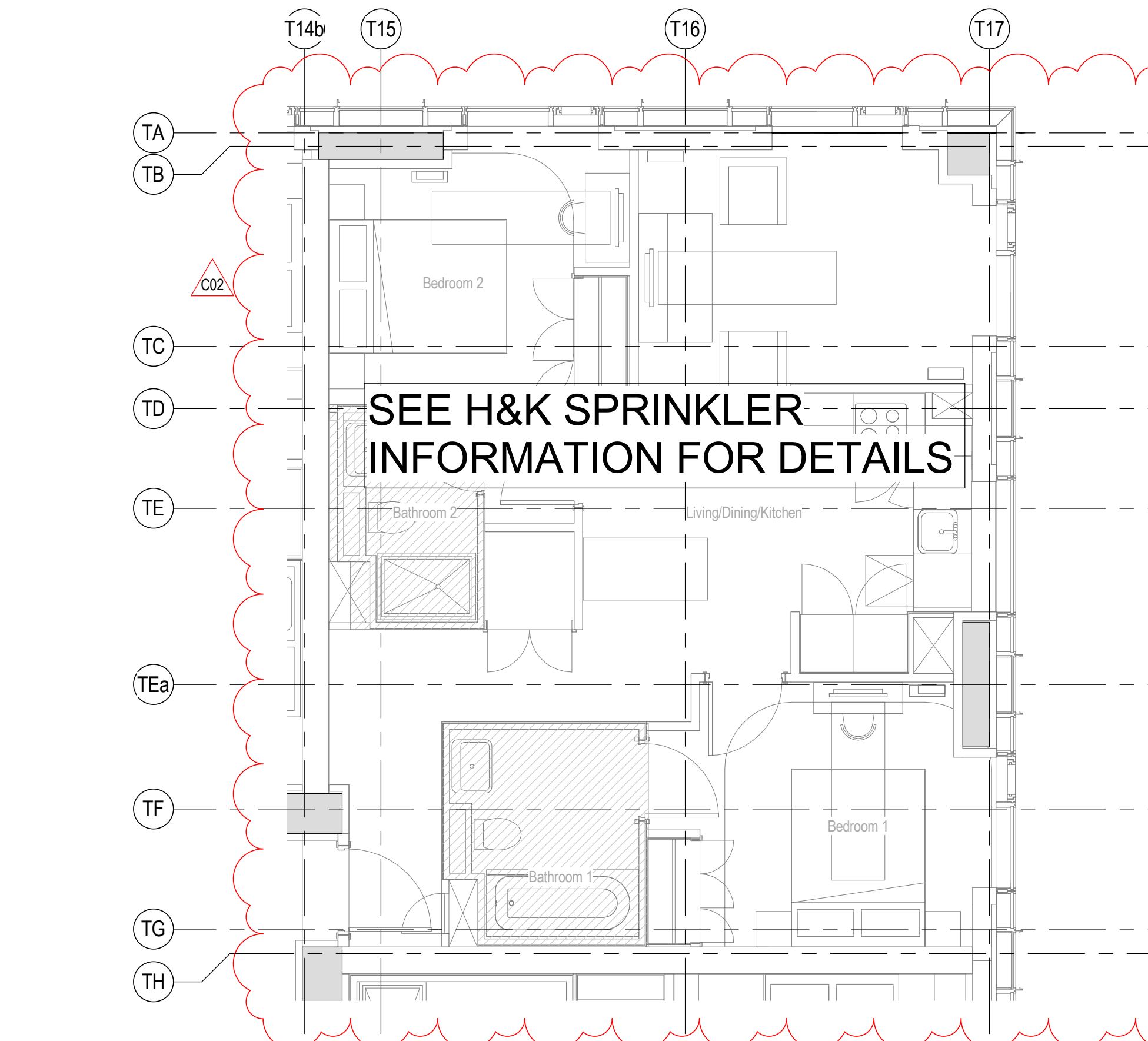
2 T5 - ABOVE GROUND DRAINAGE - TYPICAL 2 BED LEVEL 1 - APARTMENT 2B-T5

1:50



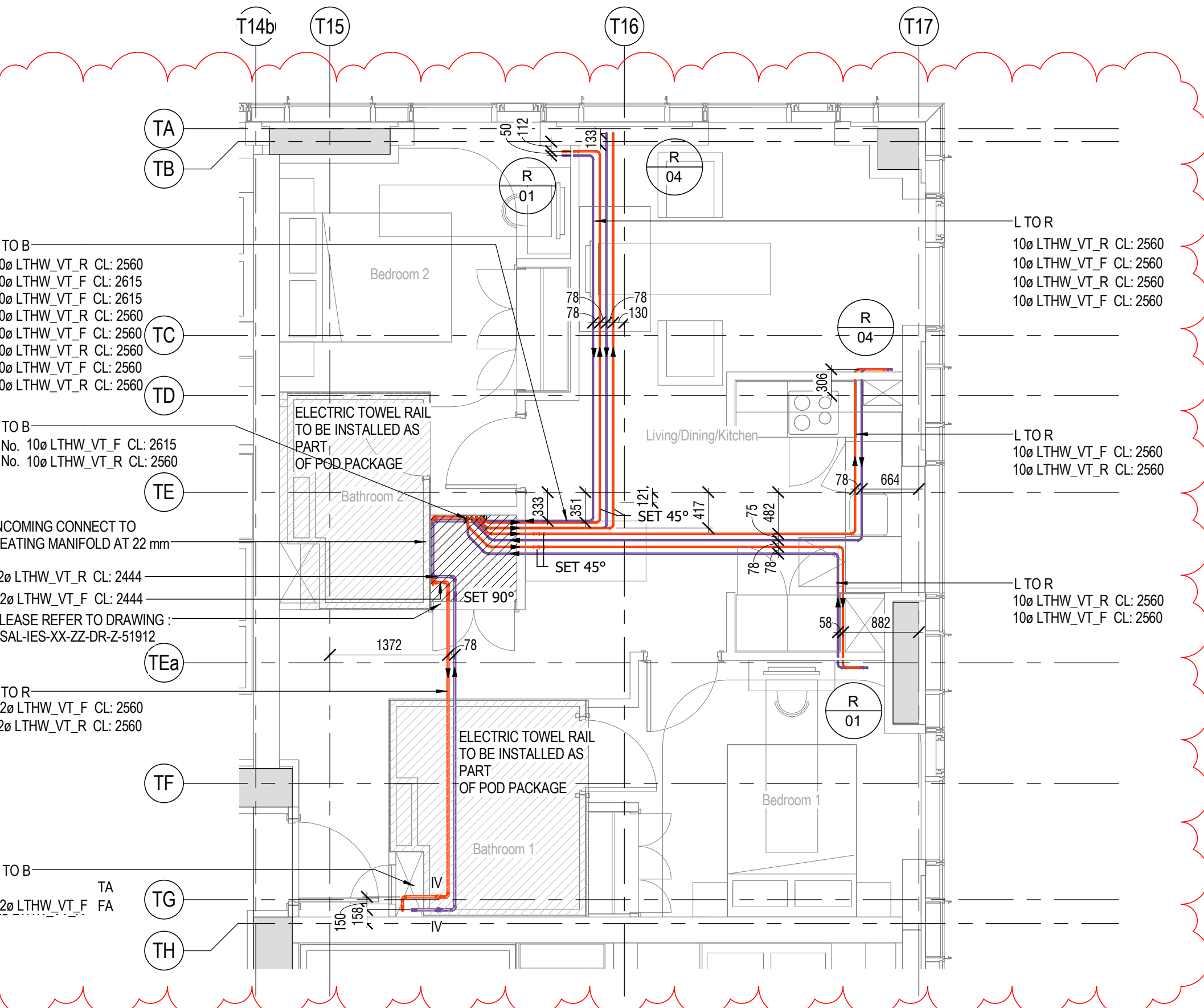
3 T5 - VENTILATION - TYPICAL 2 BED LEVEL 1 - APARTMENT 2B-T5

1:50



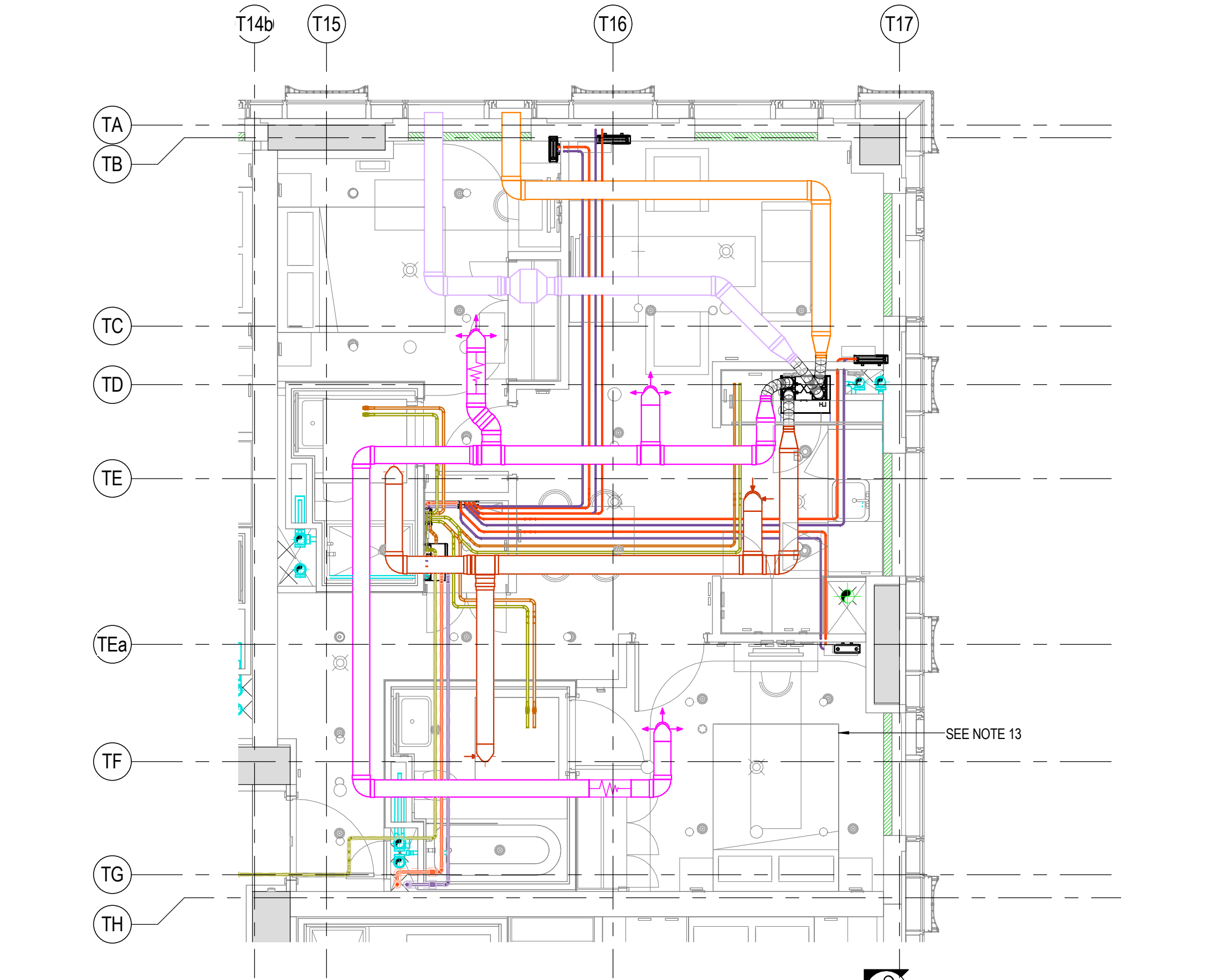
4 T5 - SPRINKLERS - TYPICAL 2 BED LEVEL 1 - APARTMENT 2B-T5

1:50



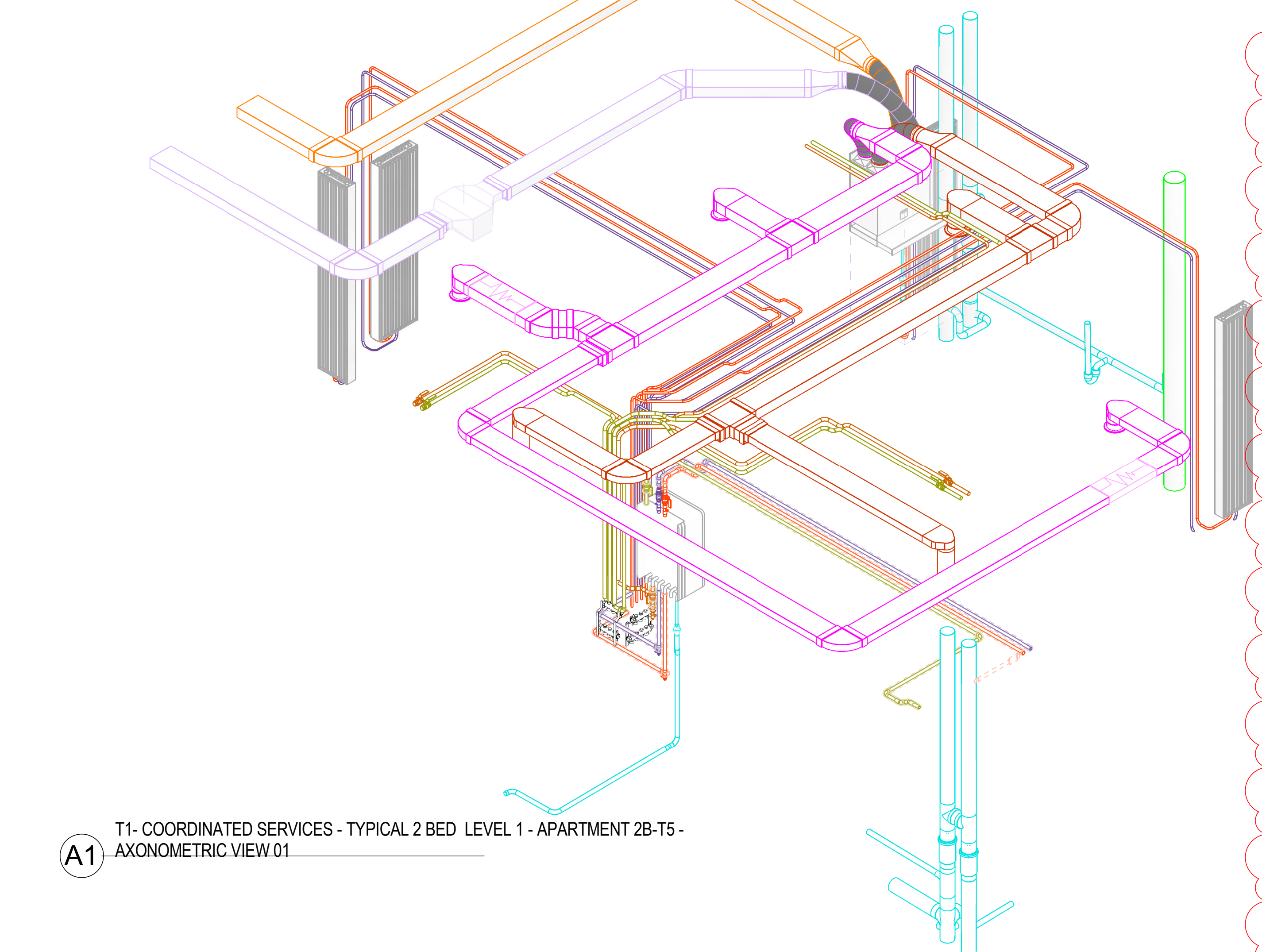
5 T5 - HEATING - TYPICAL 2 BED LEVEL 1 - APARTMENT 2B-T5

1:50



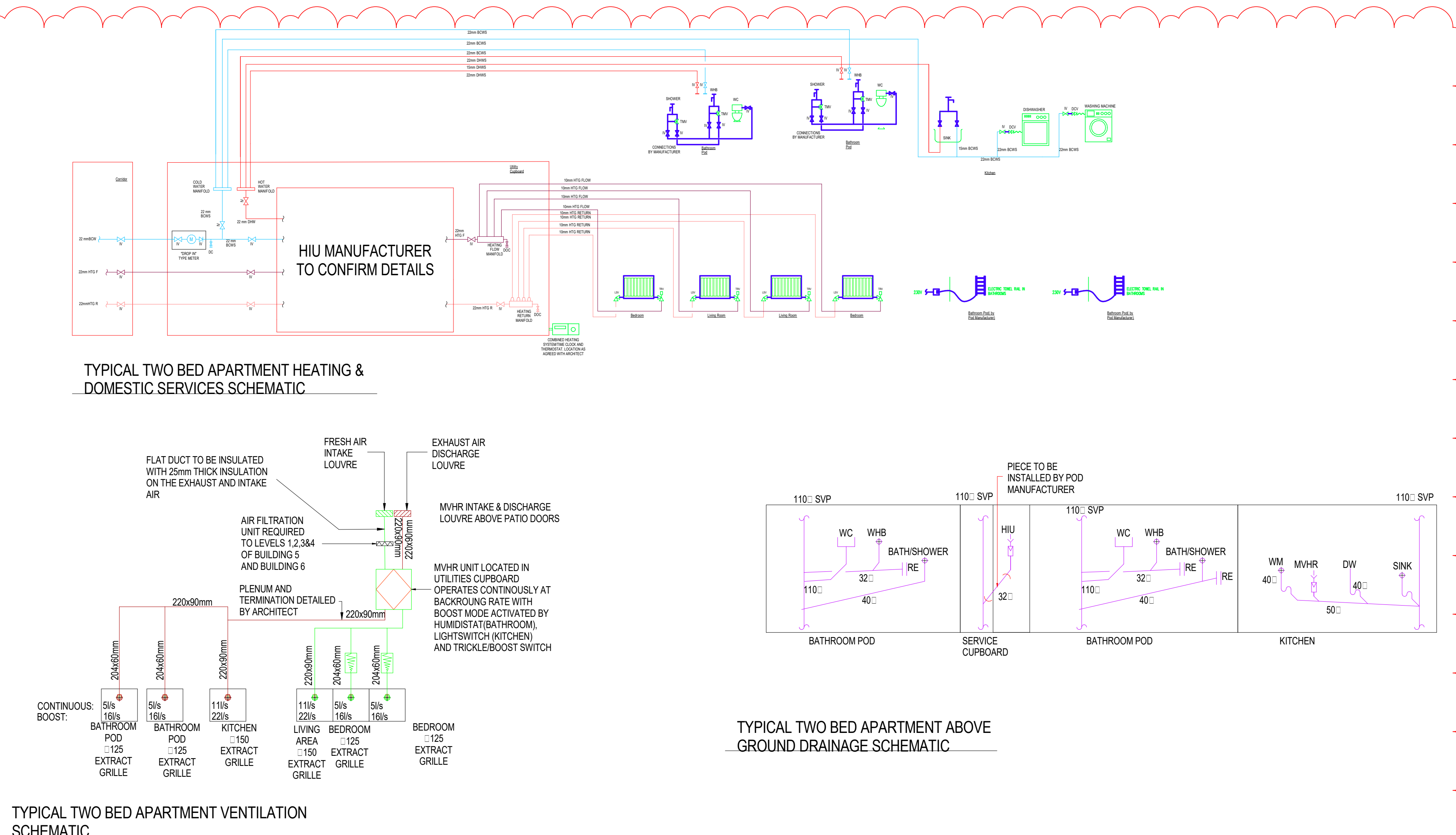
6 T5 - COORDINATED SERVICES - TYPICAL 2 BED LEVEL 1 - APARTMENT 2B-T5

1:50



A1 T1 - COORDINATED SERVICES - TYPICAL 2 BED LEVEL 1 - APARTMENT 2B-T5 - AXONOMETRIC VIEW 01

1:50



TYPICAL TWO BED APARTMENT HEATING & DOMESTIC SERVICES SCHEMATIC

1:50

LEGEND

- AIR VALVE
- CROSS TALK ATTENUATOR
- DOUBLE CHECK VALVE
- DRAIN COCK
- FLUSHING VALVE
- HEAT INTERFACE UNIT
- HEAT METER
- ISOLATING VALVE
- METER
- METER STATION
- ON/OFF VALVE
- PRESSURE ABSORBER OR NRV
- PRESSURE RELIEF VALVE
- ROOFING RELIEF
- STRAINER
- TEMPERATURE GAUGE
- TEST POINT
- THERMOSTATIC VALVE

VENTILATION

- GENERAL SUPPLY
- GENERAL EXTRACT
- FRESH AIR
- EXHAUST
- SMOKE EXTRACT
- FAN COIL
- KITCHEN EXTRACT
- CIRCULAR CEILING EXTRACT DIFFUSER
- CEILING SUPPLY & EXTRACT VALVE
- ATTENUATOR
- MOTORIZED OPPOSED BLADE DAMPER
- VOLUME CONTROL DAMPER
- MOTORIZED CONTROL DAMPER
- FIRE & SMOKE DAMPER
- HEAT COIL
- FAN
- CROSS-FLOW PLATE HEAT EXCHANGER
- DIRECTION OF FLOW
- LINEAR SLOT DIFFUSER
- CROSS TALK ATTENUATOR
- PASSIVE LINEAR SLOT FOR RETURN AIR PATH

NOTES

- ALL INSULATED DOMESTIC COLD WATER PIPEWORK SHALL BE PROVIDED WITH VAPOUR SEAL
- DRAINCOCKS TO BE INSTALLED AT ALL LOW POINTS AND AIR VENTS AT ALL HIGH POINTS
- ALL PIPEWORK PASSING THROUGH FIRE BARRIERS AND WALLS TO PASS THROUGH FIRE SLEEVES
- EXACT LOCATIONS OF SANITARY WARE SHALL BE AGREED WITH THE ARCHITECTS PRIOR TO INSTALLATION
- DEAD LEGS ON HOT WATER SERVICES SHALL BE KEPT TO A MINIMUM
- FIRE COLLARS SHALL BE INSTALLED WHERE DRAINAGE PIPE CROSS FIRE COMPARTMENTS
- THE INSTALLATION OF THE DRAINAGE SYSTEM SHALL COMPLY WITH BUILDING REGULATIONS PART H AND BS 12066
- RODDING EYES SHALL BE INSTALLED AT THE BASE OF ALL STACKS AND ALL CHANGES IN DIRECTION
- EXPANSION JOINTS TO BE ADDED IN VERTICAL & HORIZONTAL PIPEWORK IN LINE WITH MANUFACTURERS RECOMMENDATIONS
- ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH H&K DW/HA & DW/T2
- AIR GRILLES WITHIN APARTMENTS TO BE AIR VALVE TYPE
- FLEX DUCTS SHALL BE A MAXIMUM OF 500mm AND SHALL NOT BE USED TO TAKE OUT BENDS AND DEVIATIONS
- VENTILATION WITHIN APARTMENTS TO COMPLY WITH BUILDING REGULATION PART F
- SPRINKLER LAYOUT SIZES TBC BY SPRINKLER INSTALLER SPECIALIST DESIGN

WATER

- BOWS BOOSTED COLD WATER SERVICE
- CAT 5 BOOSTED COLD WATER SERVICE CAT-5
- HWSF HOT WATER SERVICE FLOW
- HWSR HOT WATER SERVICE RETURN
- MWS MAINS WATER SERVICE
- IV ISOLATING VALVE
- DRV DOUBLE REGULATING VALVE FOR HWS
- NRV NON RETURN VALVE
- PRV PRESSURE REDUCING VALVE
- DCV DOUBLE CHECK VALVE
- DOC TEST & DRAIN POINT
- FS FLOW SWITCH
- DRV DOUBLE REGULATING VALVE
- LSV LOOKSHELD VALVE

DRAINAGE

- AAV AUTOMATIC ADMITTANCE VALVE
- FG FLOOR GULLY
- RE ROOFING DRAIN
- RWP RAINWATER PIPE
- SS STUB STACK
- SVP SOL. VENT PIPE
- GSPV GROUND SOIL VENT PIPE
- MSVP MEZZANINE SOIL VENT PIPE
- RSVP RETAIL SOIL VENT PIPE
- SWP WASTE PIPE
- WP WASTE PIPE
- D DRAINAGE
- BOD BELOW GROUND DRAINAGE
- AP ACCESS POINT
- SINK SINK
- KSK KITCHEN SINK
- DW DISH WASHER
- WM WASHING MACHINE
- WHB WASH HAND BASIN
- WC WATER CLOSET
- SHR SHOWER
- BTH BATH

1:XX FALL

REFERENCE DRAWINGS & MODELS

ARCHITECTURAL	CSAL-FCBS-ZT-ZZ-M3-A-001	P19
STRUCTURAL	CSAL-FCBS-ZT-ZZ-M3-A-002 FACADE	P04
	CSAL-CUR-ZT-XX-M3-S-0001	P18

GENERAL

- FROM ABOVE
- TO ABOVE
- FROM BELOW
- TO BELOW
- HIGH LEVEL
- LOW LEVEL
- MID LEVEL
- DTLL DROP TO LOW LEVEL
- RTHL RISE TO HIGH LEVEL
- SET UP
- SET DOWN
- FFL FINISHED FLOOR LEVEL
- SSL STRUCTURAL SLAB LEVEL
- AFFL ABOVE FINISHED FLOOR LEVEL
- IL LEVEL TO UNDERSIDE 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
- DCV DOUBLE CHECK VALVE
- DRV DIFFERENTIAL PRESSURE CONTROL VALVE
- 3PMV 3 PORT MOTORIZED VALVE
- FORV FIXED ORIFICE DOUBLE REGULATING VALVE
- 2PMV 2 PORT MOTORIZED VALVE
- PICV PRESSURE INDEPENDENT CONTROL VALVE
- STR STRAINER
- OP ORIFICE PLATE METERING STATION
- CS COMMISSIONING STATION
- TP TEST POINT
- PP PURGE POINT
- TP TEST POINT
- S SENSOR
- M METER
- FCU FAN COIL UNIT
- DAC DRY AIR COOLER
- AB AIR BOTTLE
- NC NORMALLY CLOSED
- FC FLEXIBLE CONNECTION
- DOC DRAIN COCK
- AV AIR VENT
- HE HEAT EXCHANGER
- RAD RADIATOR
- MCV MOTORISED CONTROL VALVE
- GV GATE VALVE
- PRV PRESSURE REDUCING VALVE
- AAV AUTOMATIC AIR VENT
- WETR WET RISER
- DRV DOUBLE REGULATING VALVE
- LSV LOOKSHELD VALVE

INSULATION TABLE

SERVICE	PIPE MATERIAL	PIPE DIAMETER	INSULATION THICKNESS	INSULATION MATERIAL
LTHW FAR	COPPER	ø15	25 mm	MINERAL WOOL
	STEEL	ø15	30 mm	
	ø20-ø50	40 mm		
BOWS	COPPER	ø65 & ABOVE	30 mm	MINERAL WOOL
		ø15-ø25	20 mm	
		ø42-ø54	25 mm	
		ø67-ø108	30 mm	
		ø133-ø159	40 mm	
DHW'S FAR	STAINL STEEL	ø159 & ABOVE	40 mm	MINERAL WOOL
	COPPER	ø15-ø22	25 mm	
		ø28-ø42	30 mm	
	STAINL STEEL	ø54-ø159	40 mm	

CLIENT APPROVAL

client approval	A Approved	client approval, initial and date
	B Approved with Comments <td></td>	
	C Not Approved <td></td>	

CLIENT MAIN CONTRACTOR

CONSULTANT/STRUCTURAL

PROJECT
Circle Square
Affinity
Type: ST
Service: Apartment Mechanical Services
2 Bed Type T5

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