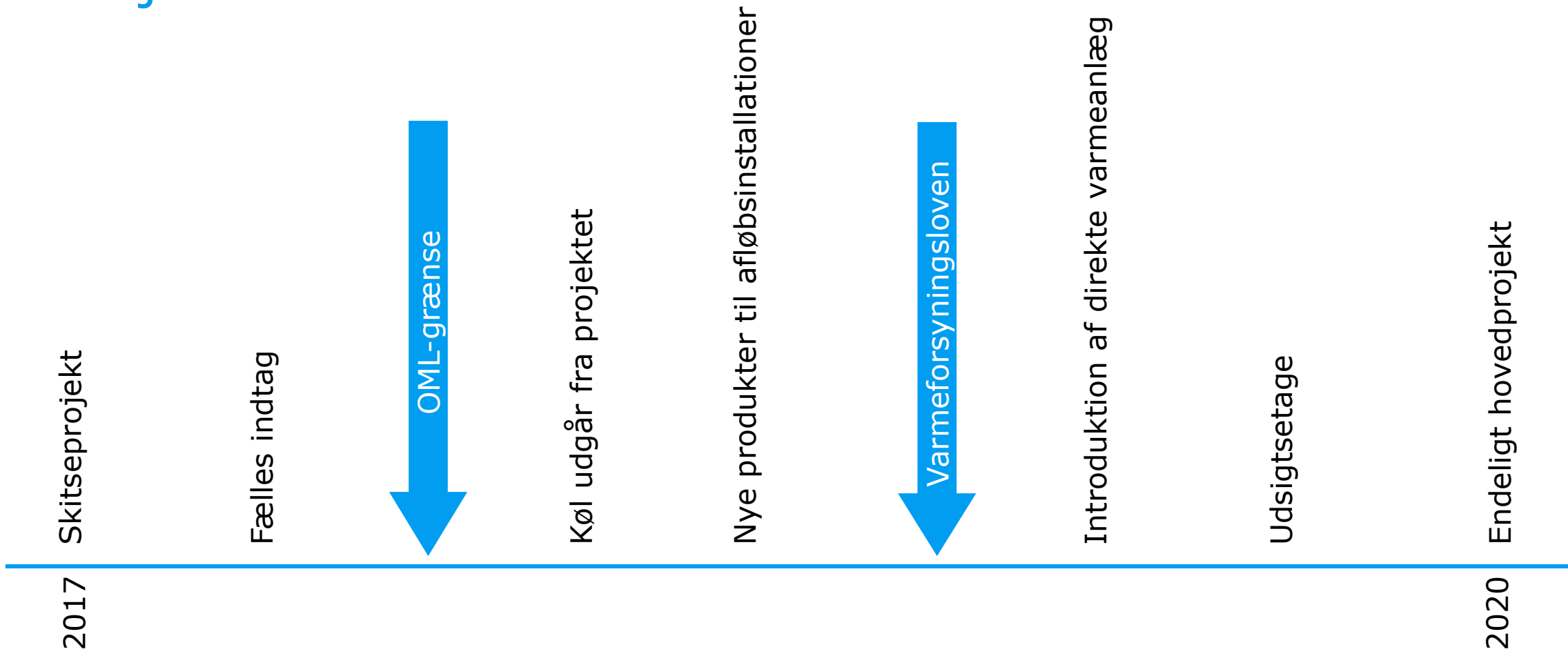


Lighthouse fra 0 til 142



Tidslinje



Hvem er jeg



Michael Stokholm Veng

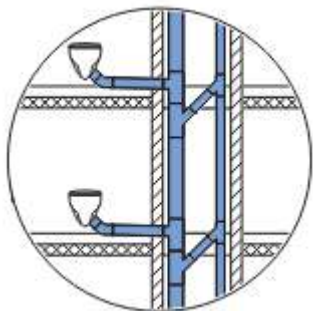
- MOE: 2015 - 2018
- Rambøll: 2018 -
 - Lighthouse
 - DNV – Gødstrup Sygehus
 - DSB – Nye Grønne Værksteder
- Civilingeniør ved Aalborg Universitet
- Ølbrygger
- Gift med Katja og far til Margrethe

Lighthouse i facts

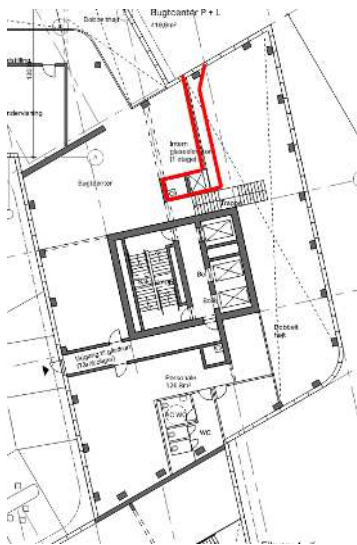
- 142 meter højt
- 45 etager
- 395 lejligheder
- ~ 45.000 m² bruttoareal
- ~ 4.500 m varmerør
- ~ 15.000 m² facade



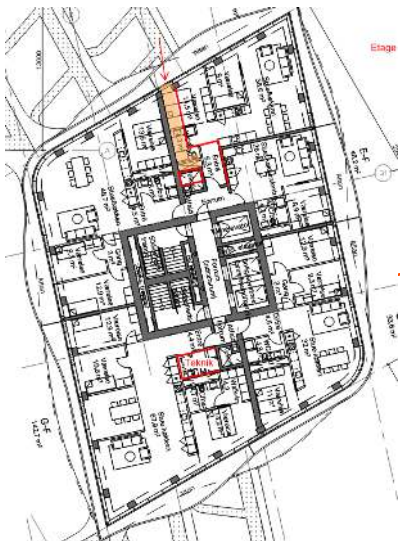
Skitseforslag



Parallelventileret afløb



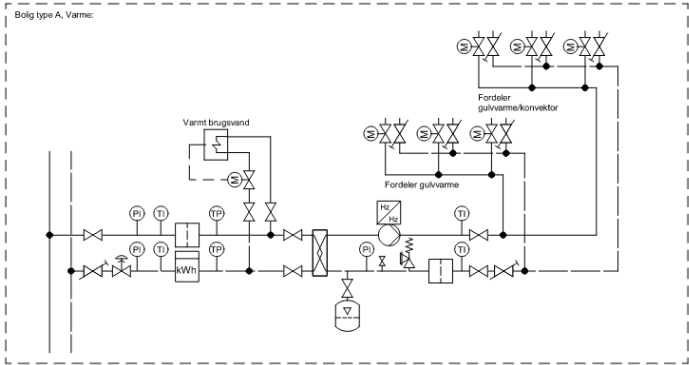
Fælles indtag, niveau 01



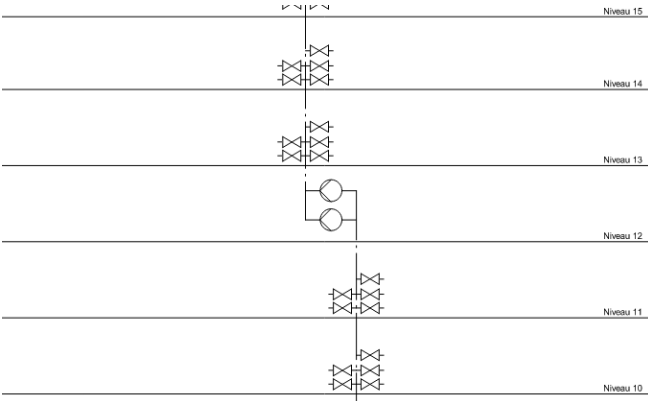
Fælles indtag, niveau 21



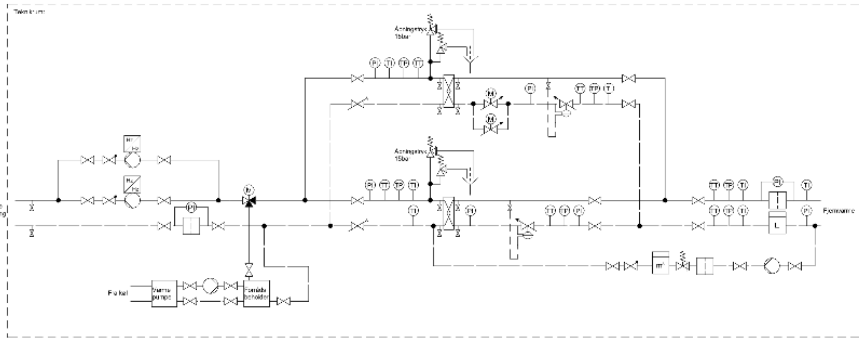
OML-grænse



Principdiagram lejligheder

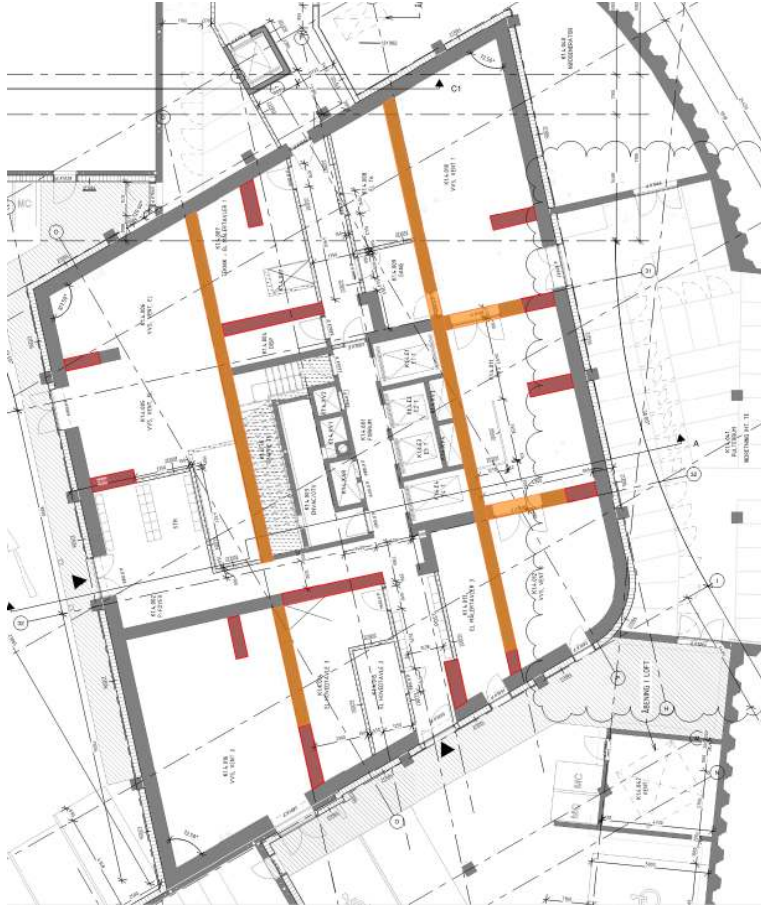


Trykforøgning af brugsvand



Indirekte varmeanlæg

Fælles indtag



Statisk system, kælder

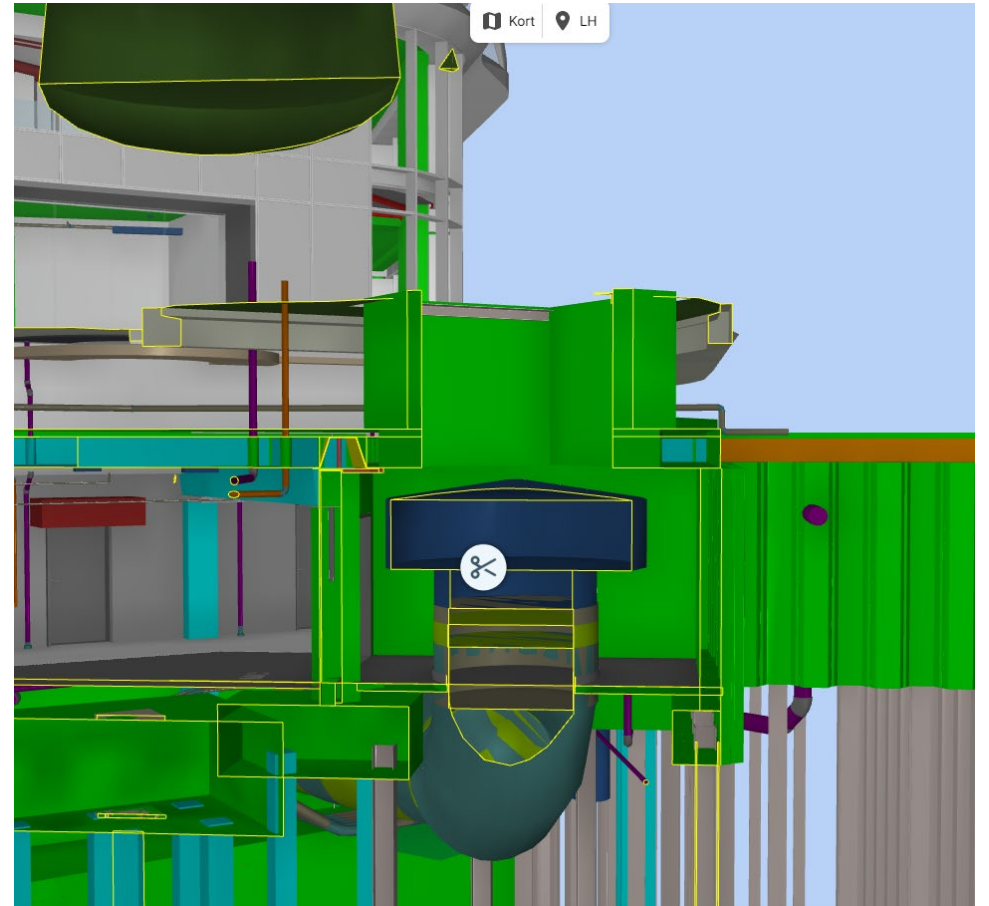


Indtag, niveau 21

Kanaler i kælderen

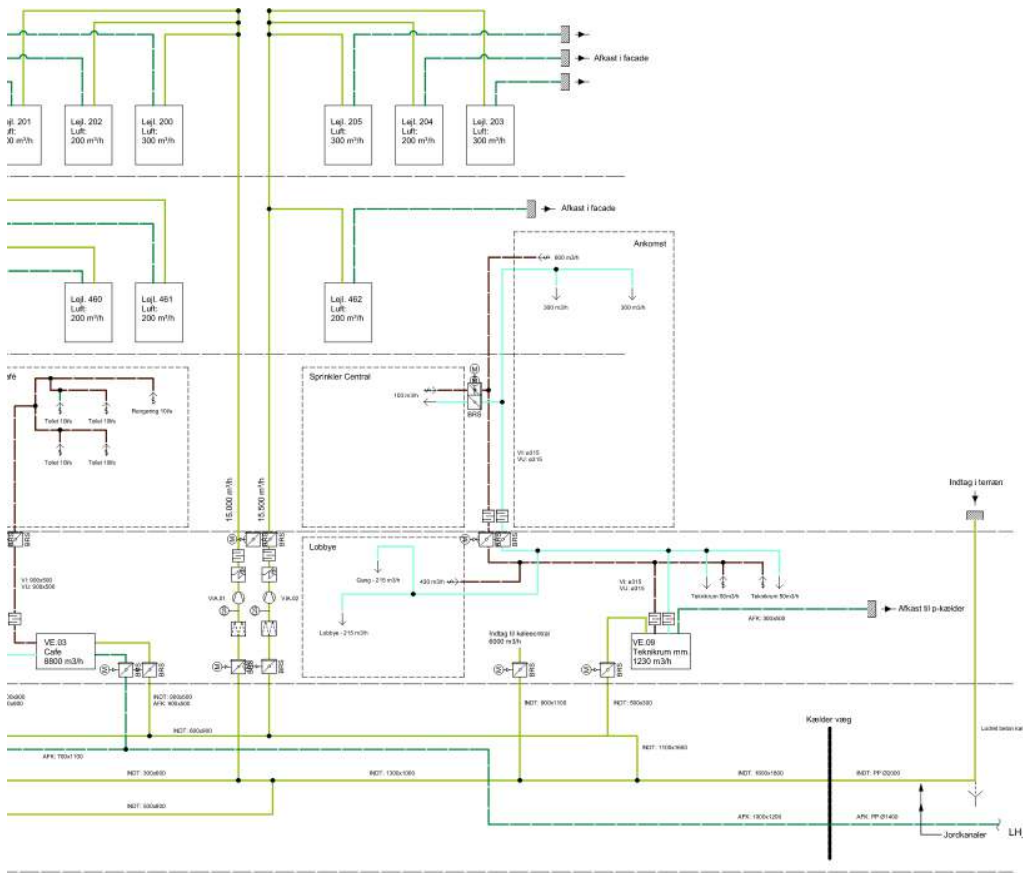


Kælder K02 reserveret til kanaler

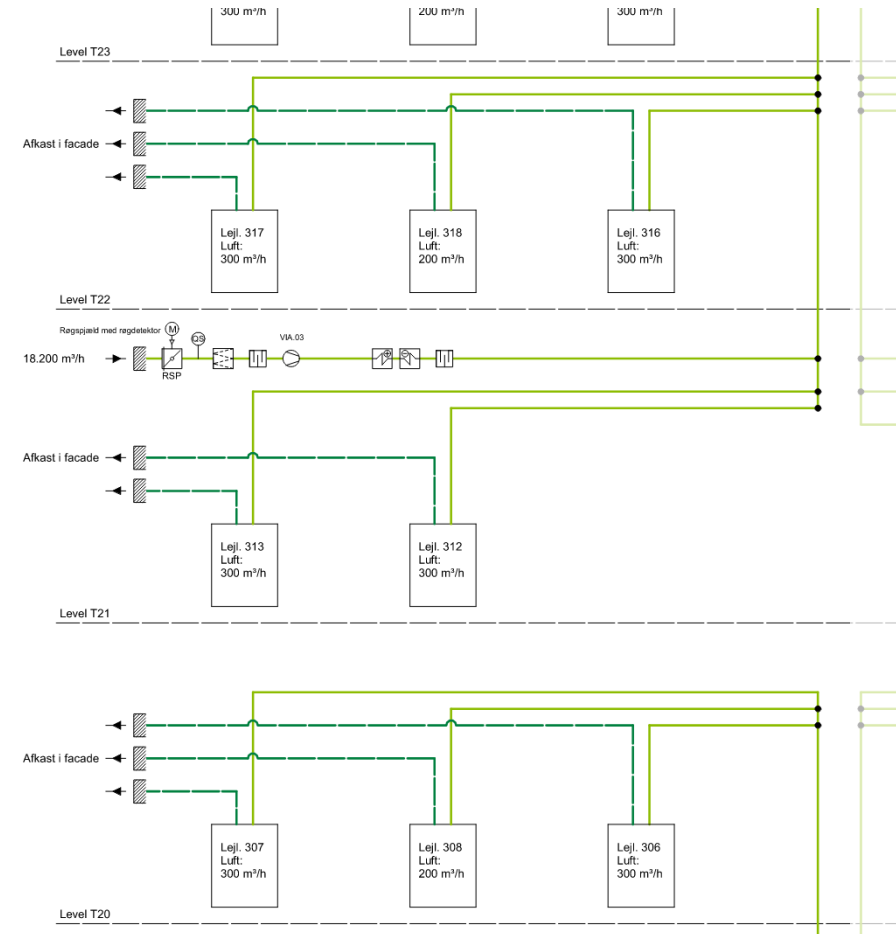


Indtag ved terræn

Principopbygning – fælles indtag



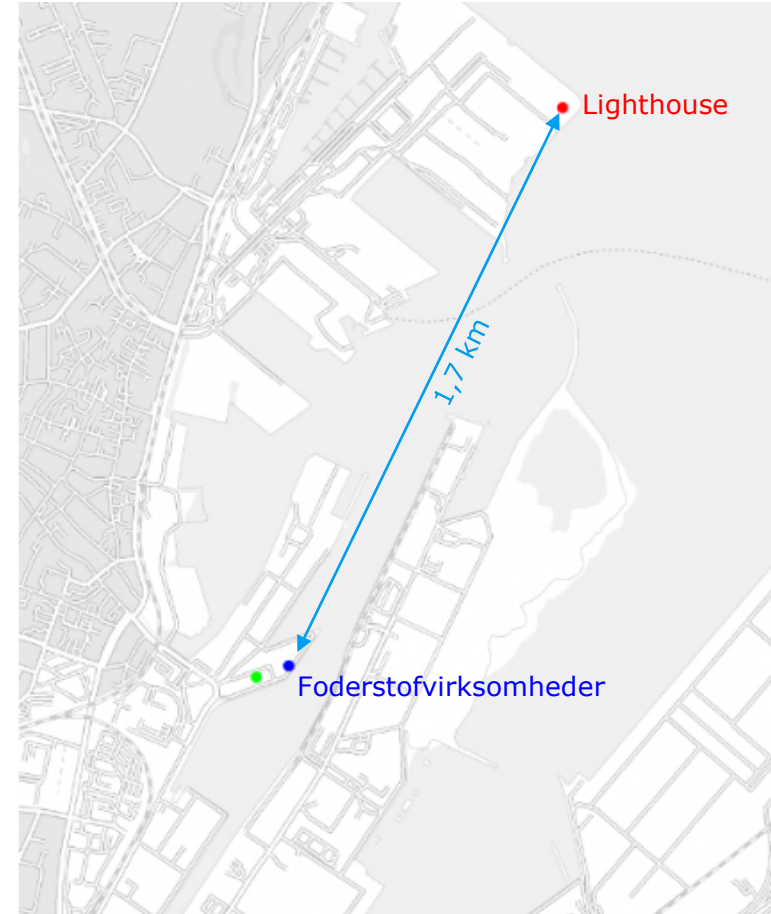
Princip for indtag i kælderniveau K1



Princip for indtag i niveau 21

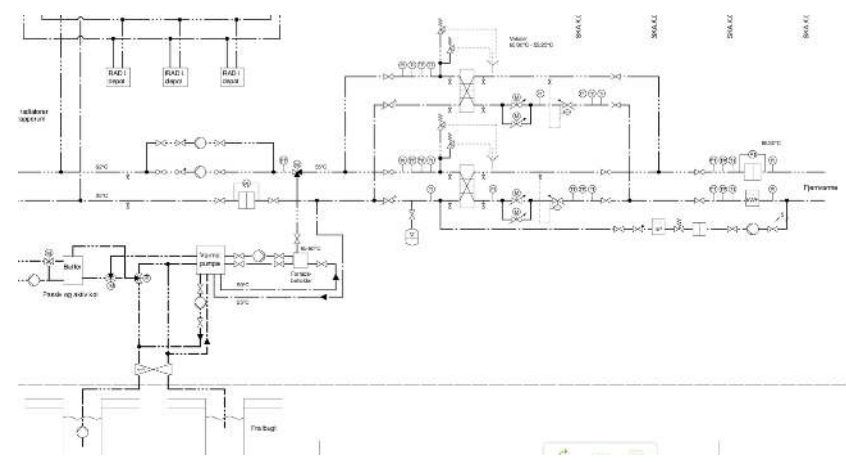
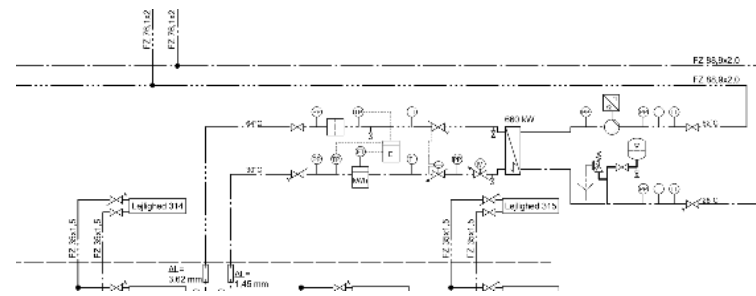
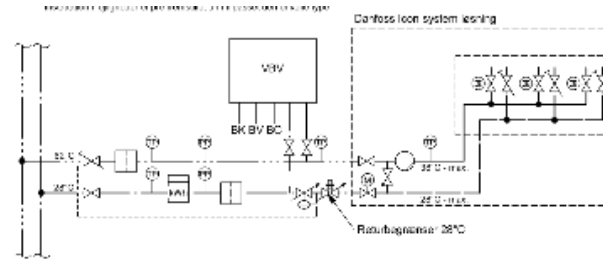
OML

- Operationelle Meteorologiske Luftkvalitetsmodeller
- Kote 74.00
- Lempelse af 'lugtloven' i 2019



Køl udgår fra projektet

- Overskudsvarme bliver en mangelvare
- Fra havvandskøl til 'havvandsvarme'?

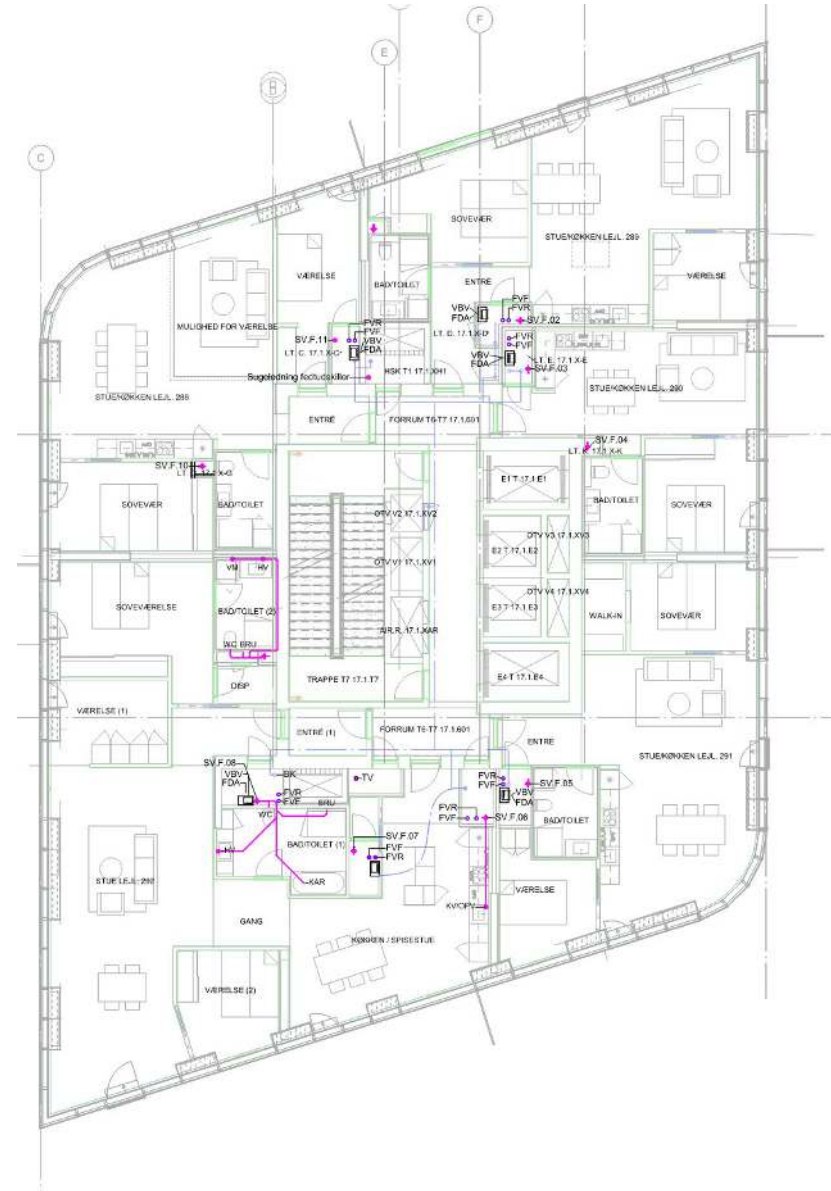


Afløbsinstallationer

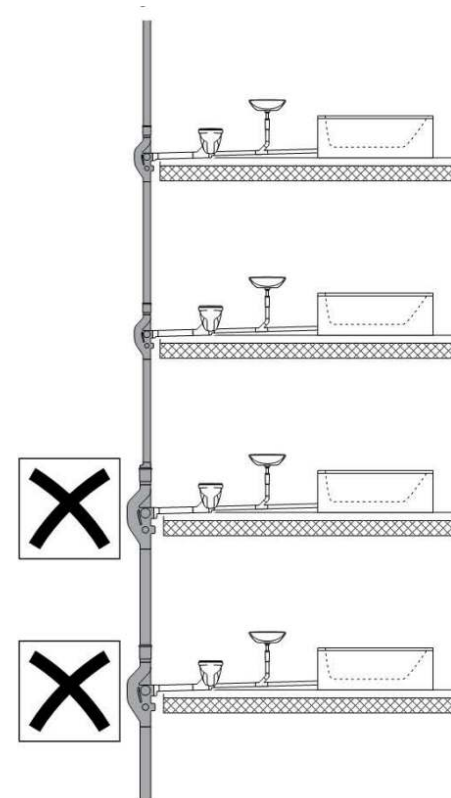
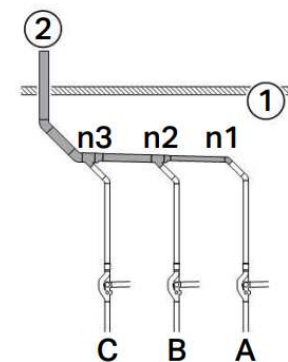
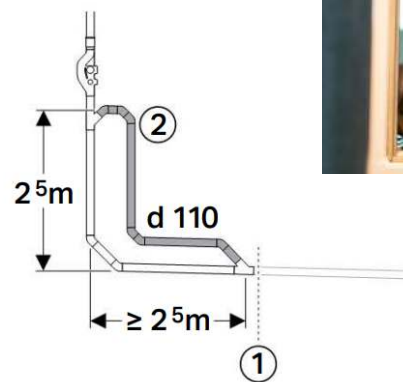
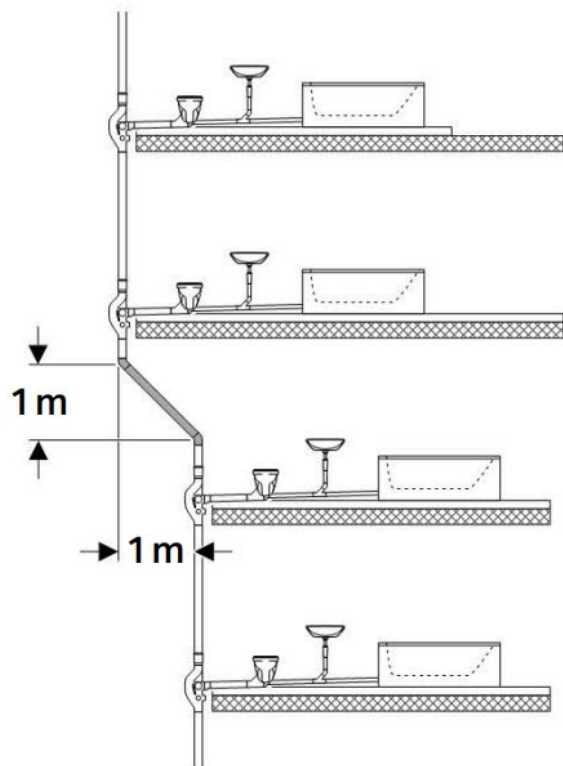
Geberit Sovent-systemet

- Spilleregler

Nyt produkt: Supertube

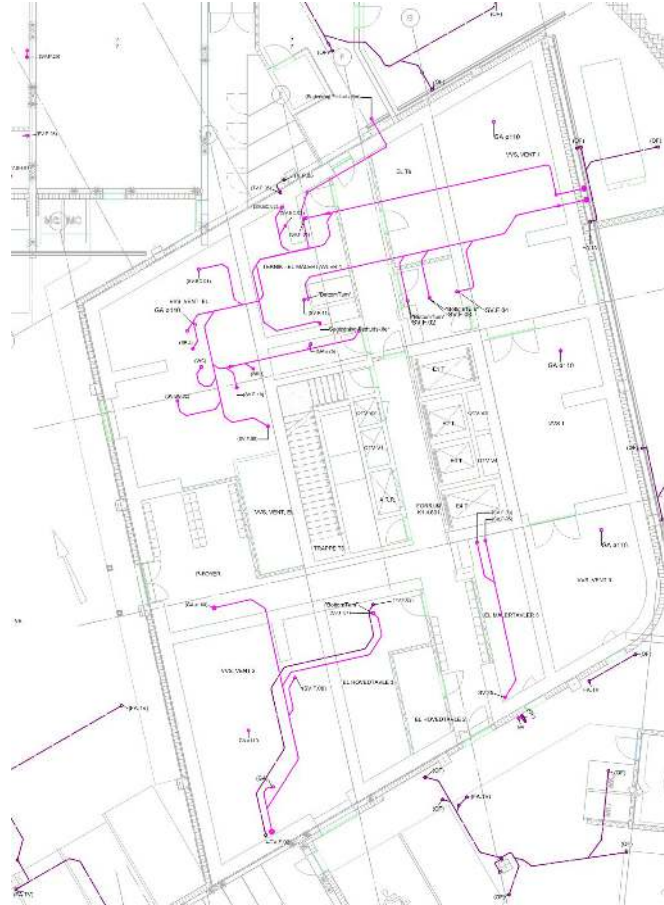
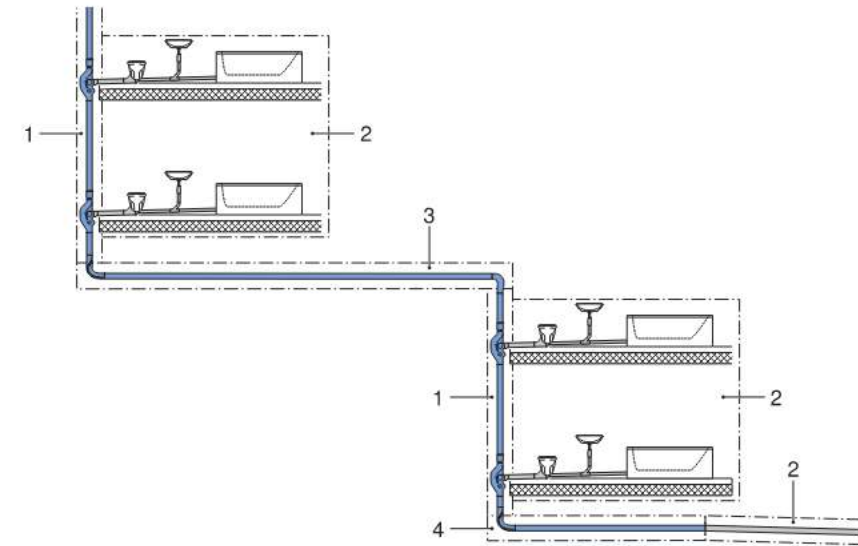


Sovent spilleregler

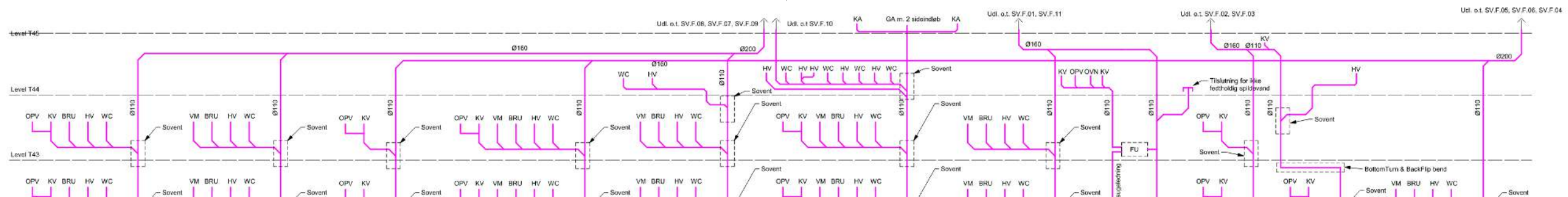


Supertube

- Mulighed for vandret føring
- Fri for parallel udluftningsledning

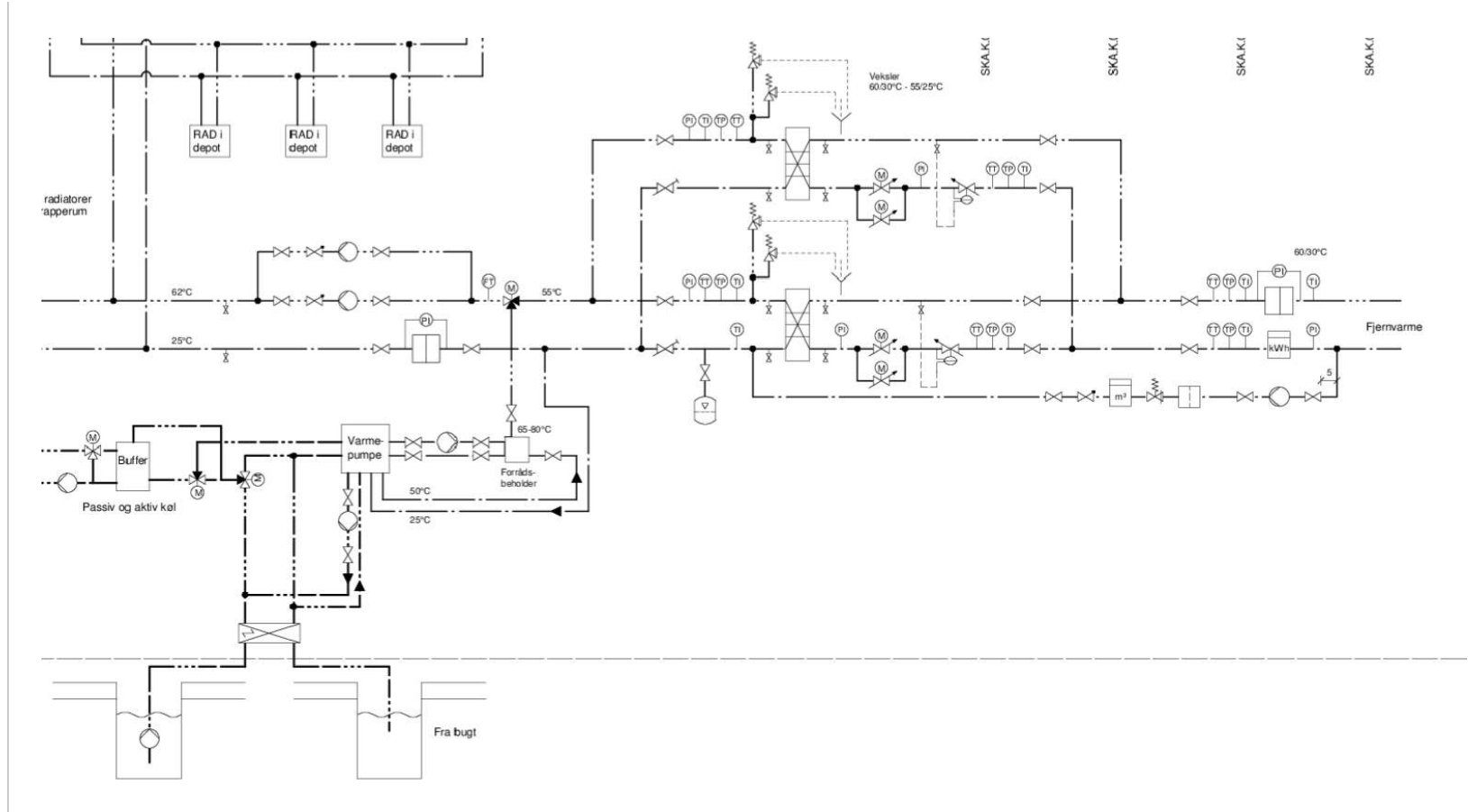


- Sammenlægning af udluftningsledninger i gulv på udsigtsetagen



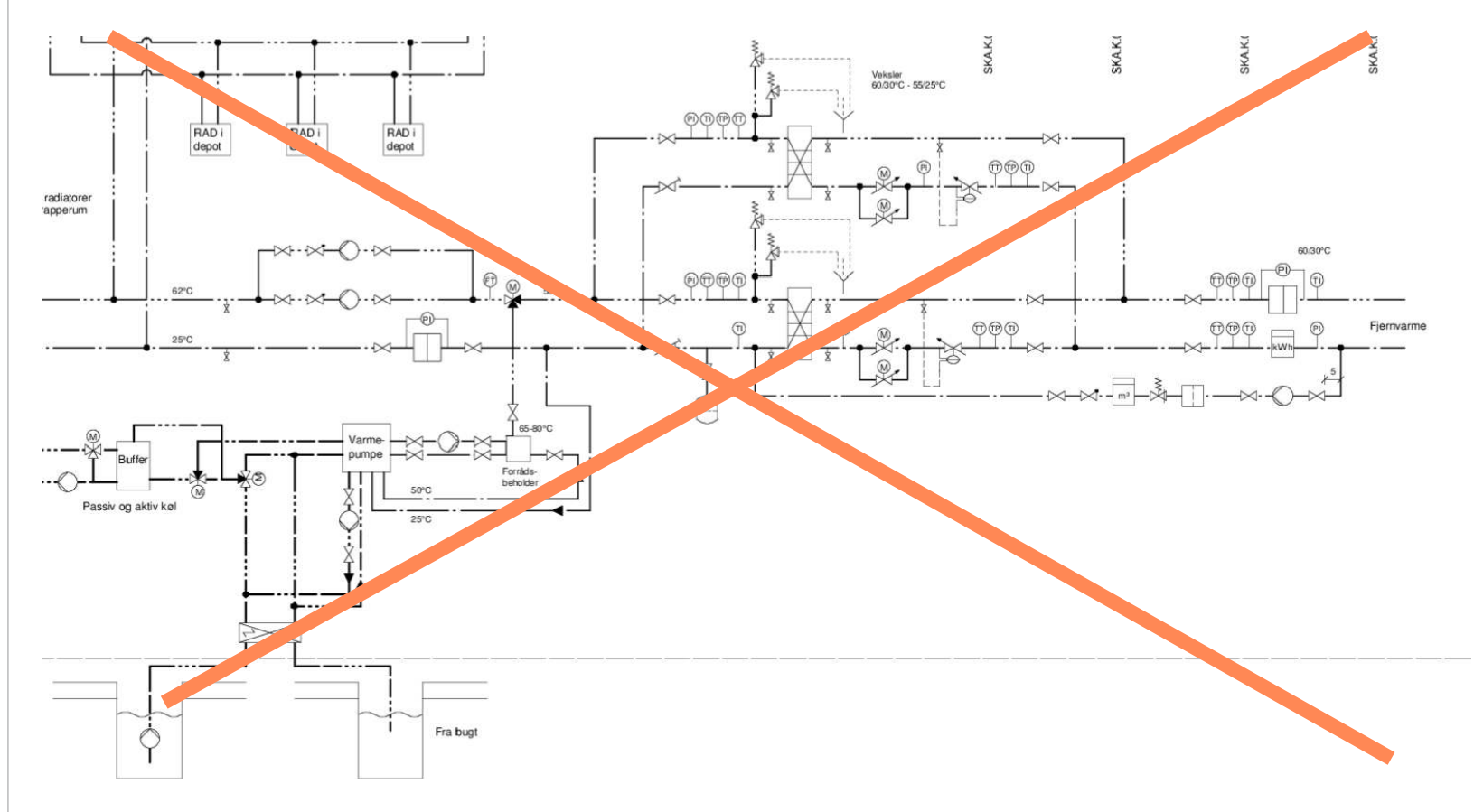
Varmeforsyningsloven

- Vedrør varmforsyningsanlæg med produktion over 250 kW
- Tilbagealg af overskudsvarme

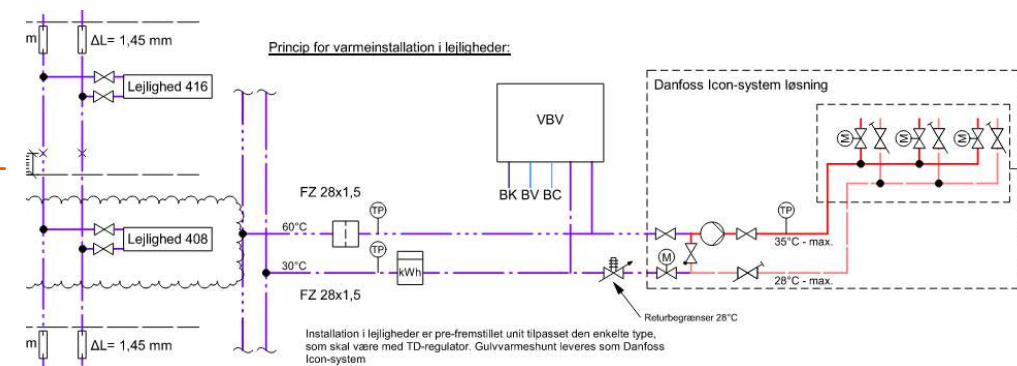
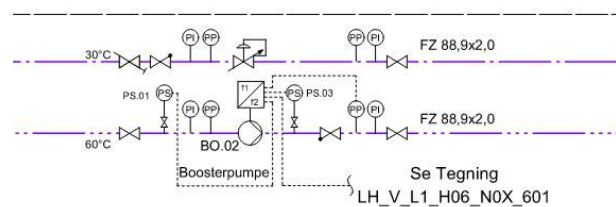
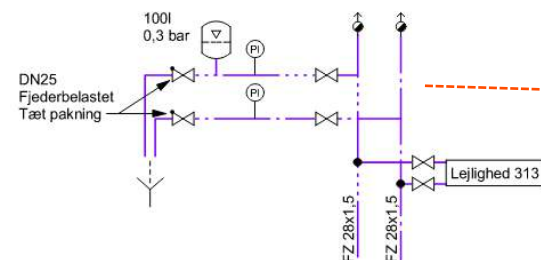
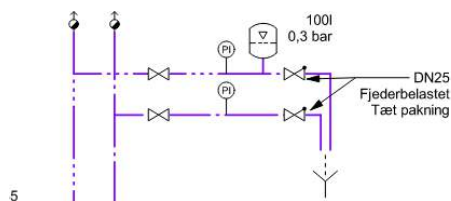


Varmeforsyningsloven

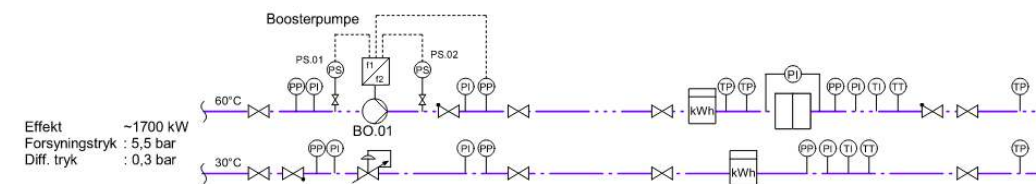
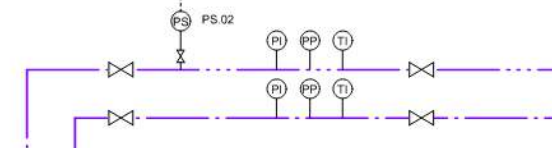
- Vedrør varmforsyningsanlæg med produktion over 250 kW
- Tilbagealg af overskudsvarme



Direkte varmeanlæg



Se Tegning
LH_V_L1_H06_N0X_600



Udsigtsetagen

- Restaurant i toppen
 - Fedtudskillersystem
 - Eget ventilation aggregat med kulfilter
- Opvarmning
 - Konvektor i grav (traditionel)
 - Ribberør



Spørgsmål



Tak for opmærksomheden

