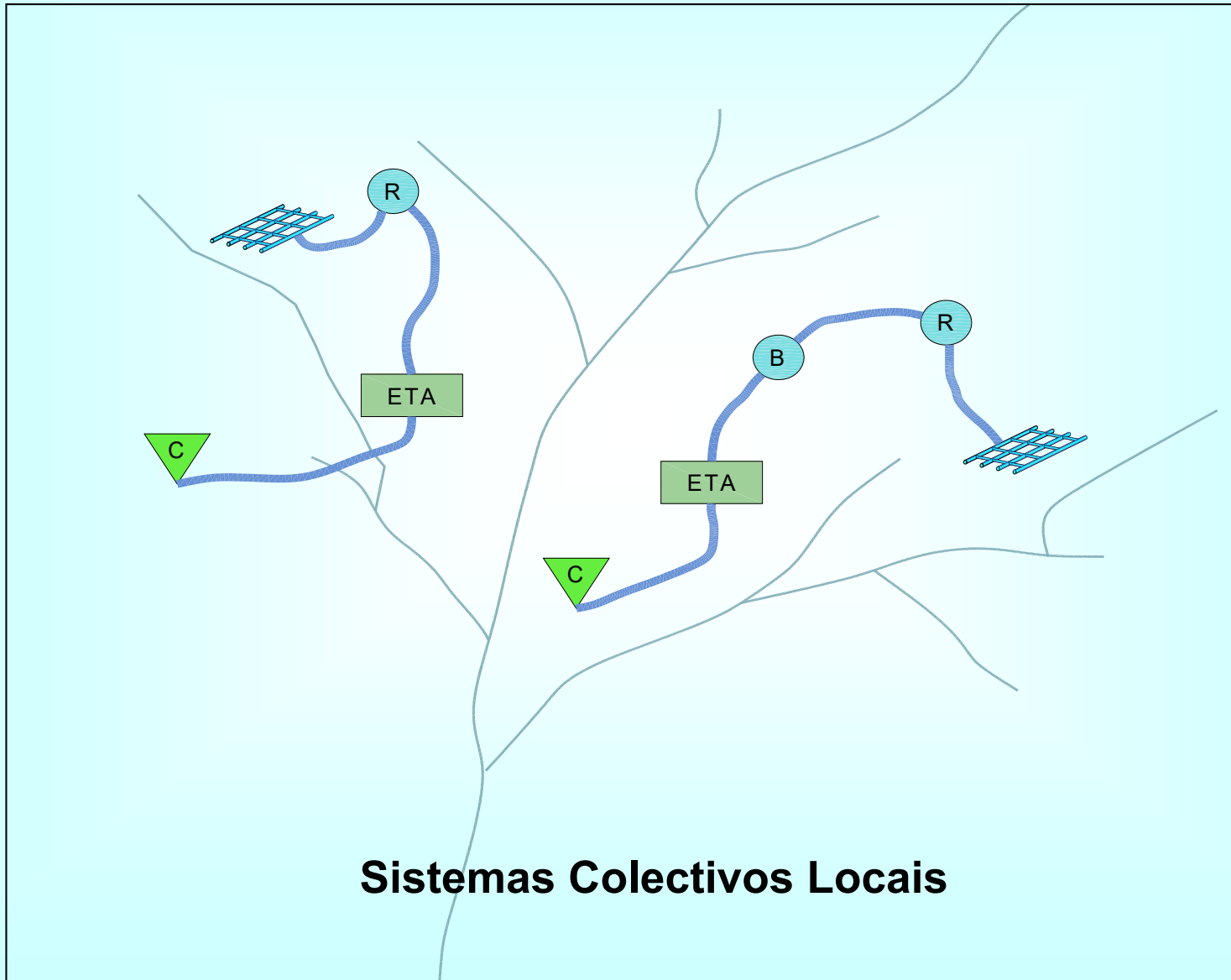




SISTEMAS DE ABASTECIMENTO DE ÁGUA E DE ÁGUAS RESIDUAIS

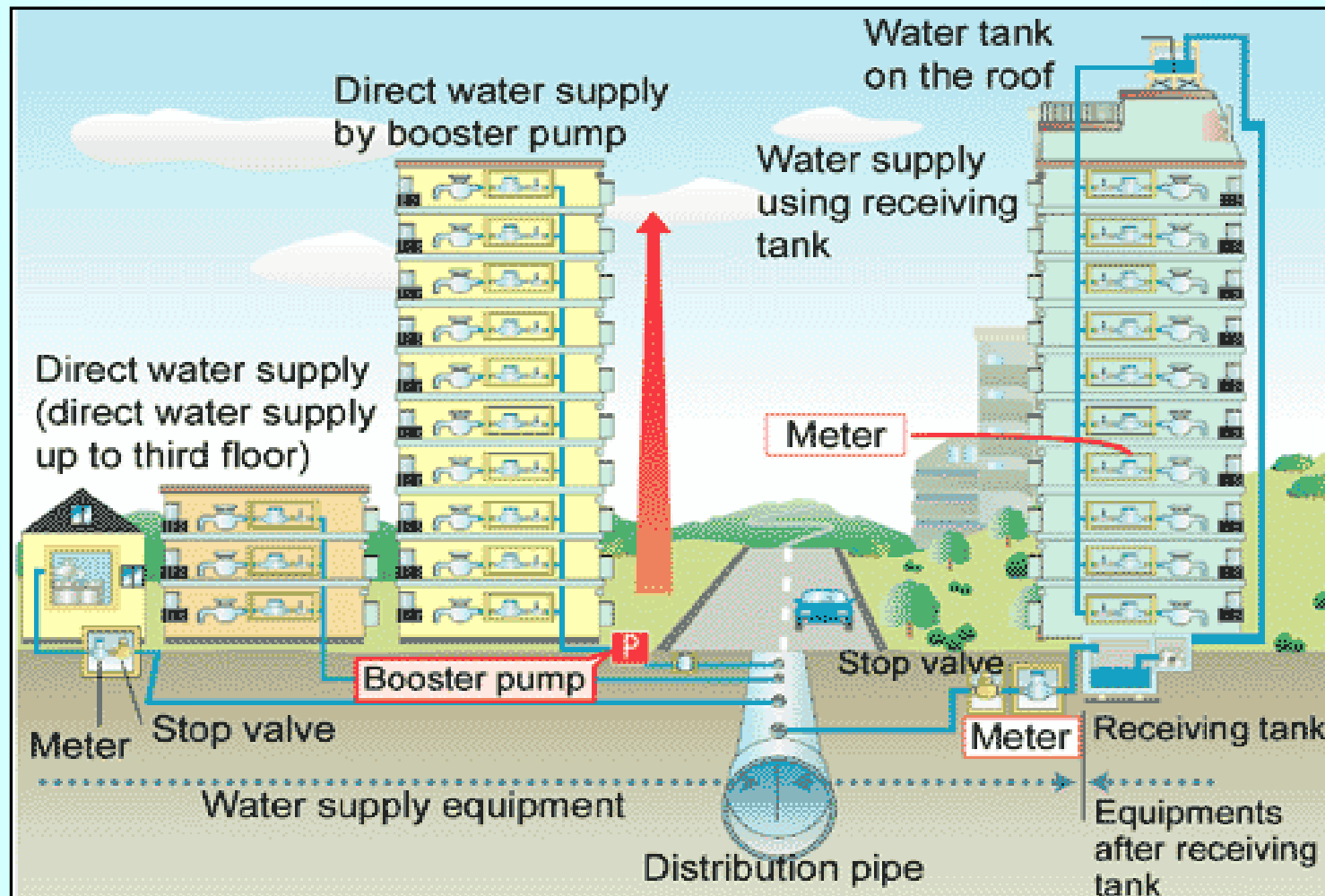
João de Quinhones Levy

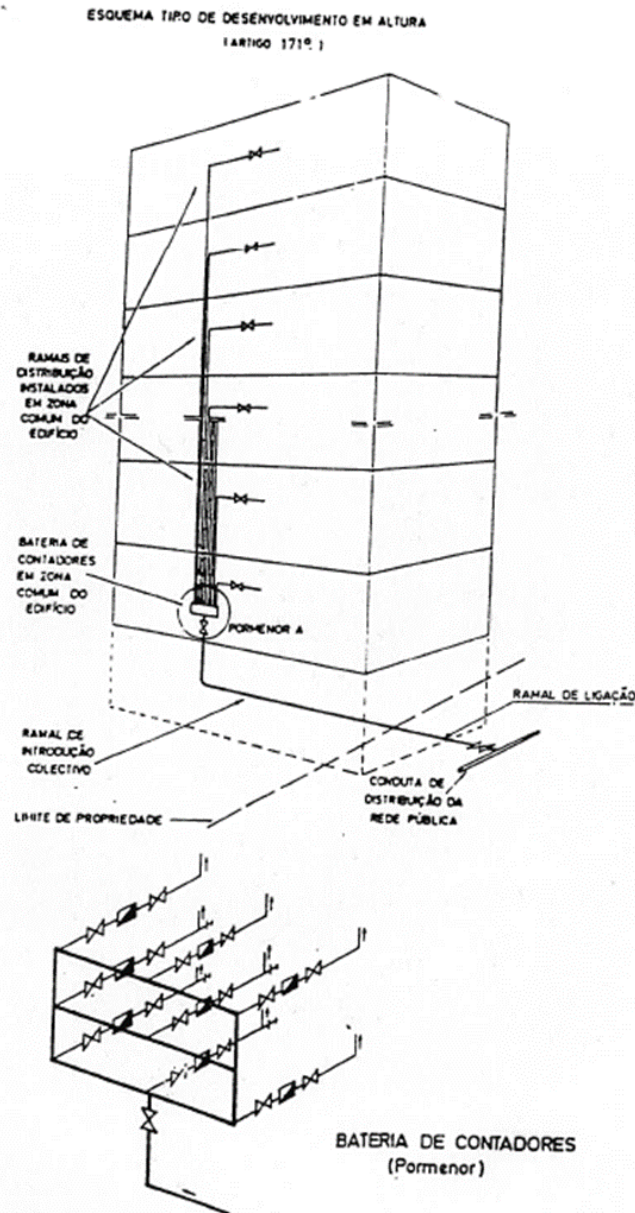
joao.levy@tecnico.ulisboa.pt





Sistema Regional de Abastecimento de água

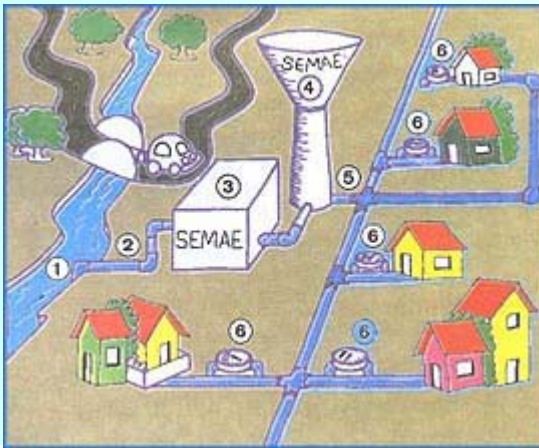




Pressão de água a garantir nos edifícios

$$P > 4n + 10 \text{ m.c.a.}$$

ABASTECIMENTO DE ÁGUA: Distribuição

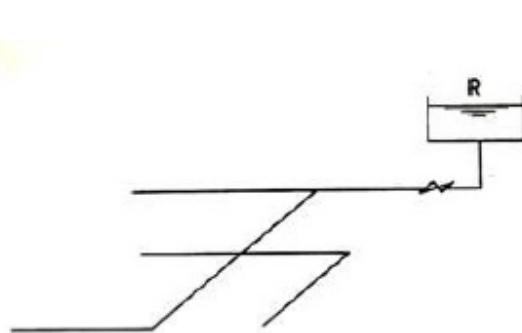


Relação com:

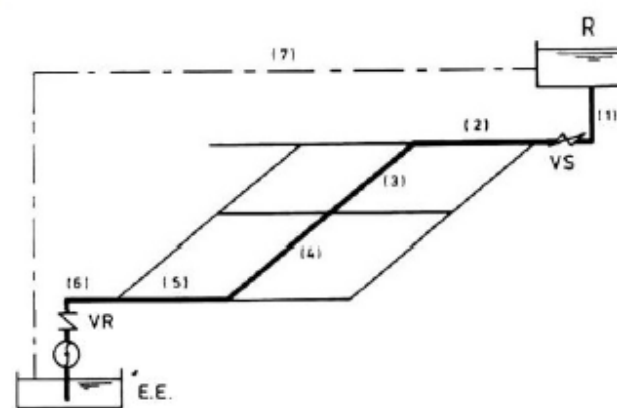
- Altura dos edifícios
- Sistemas de combate a incêndios



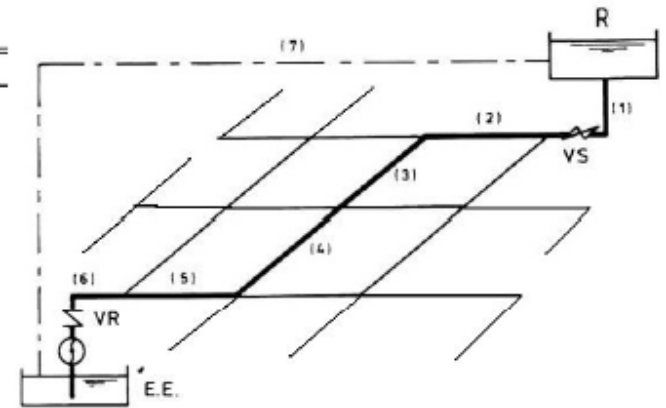
Redes Ramificadas

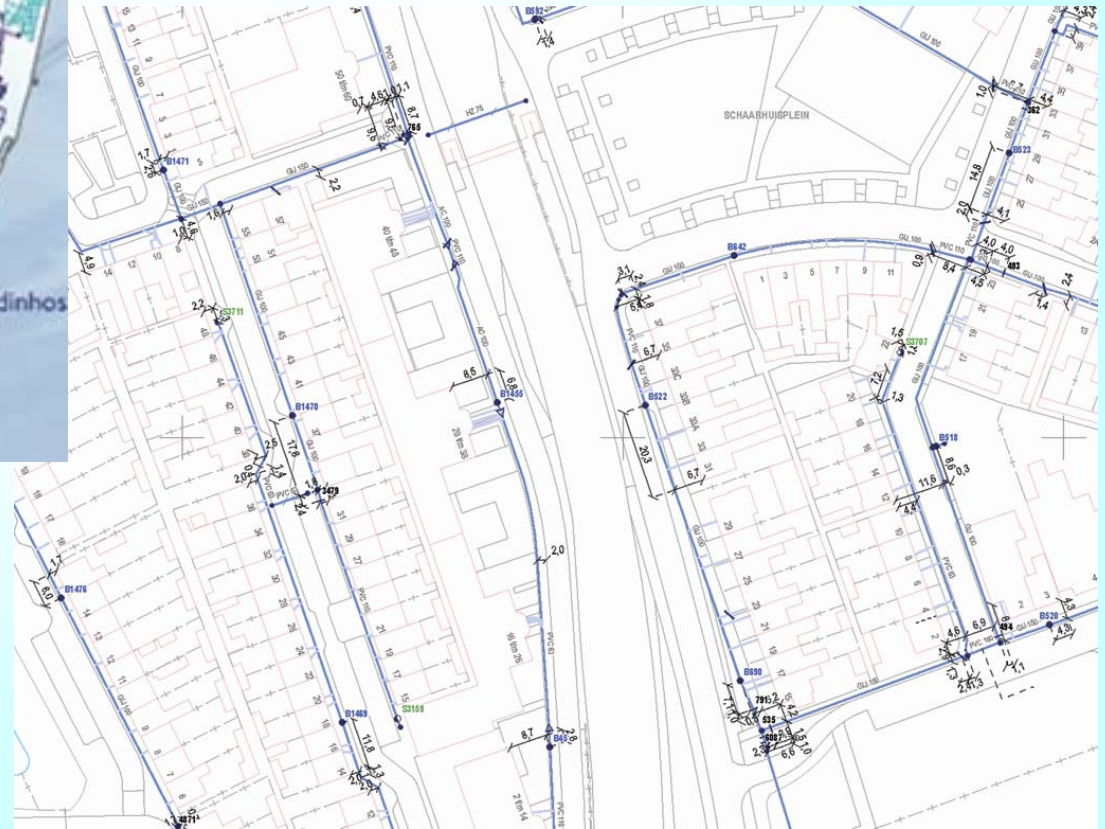
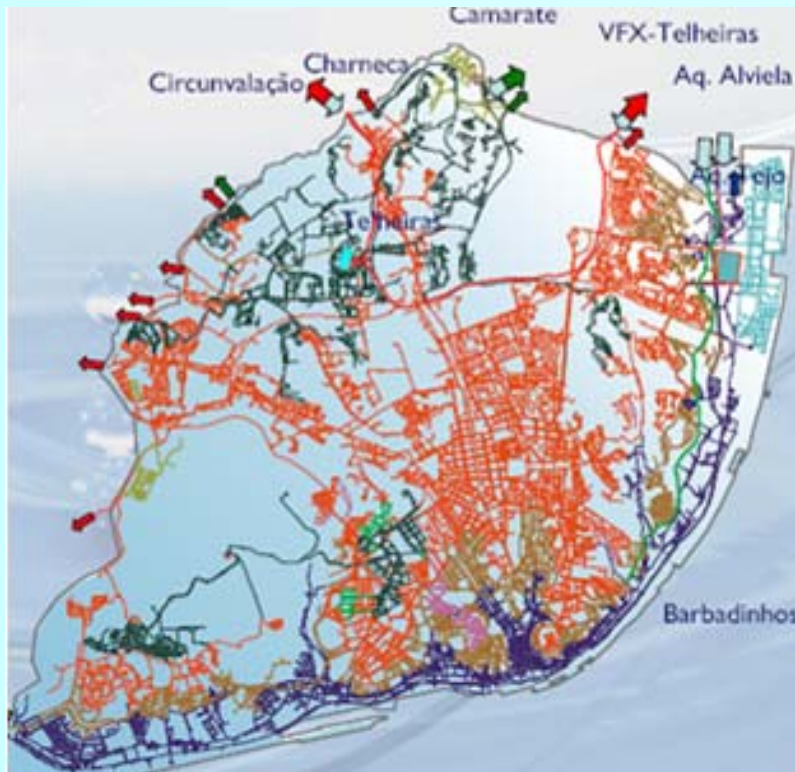


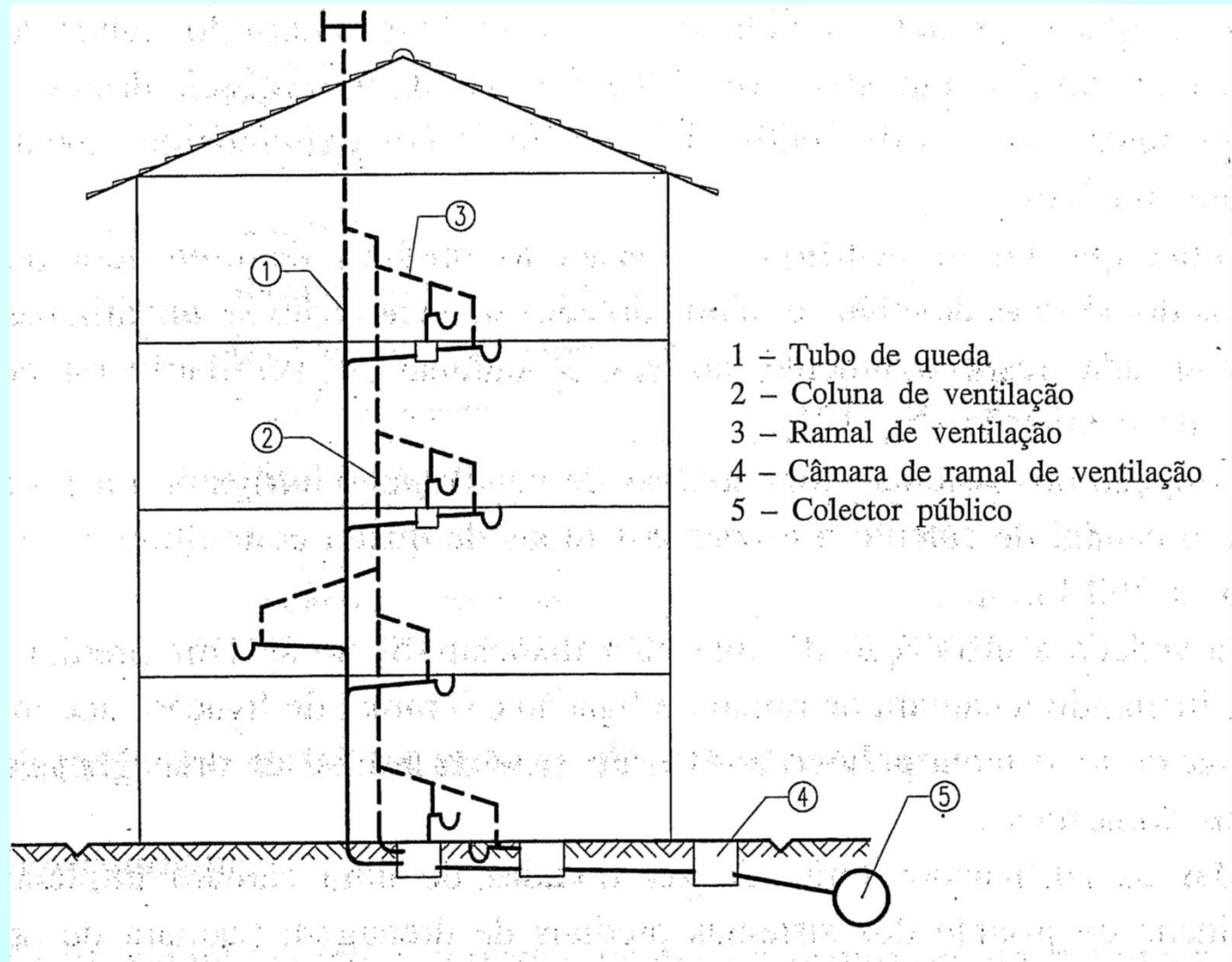
Redes Emalhadadas

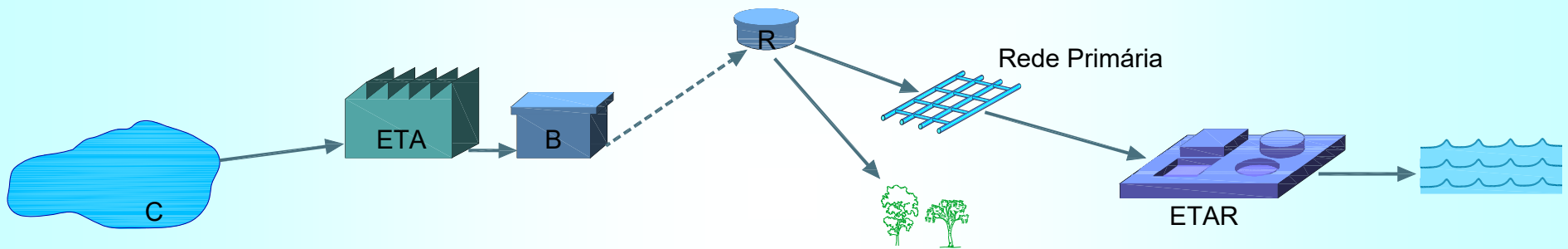


Redes Mistas



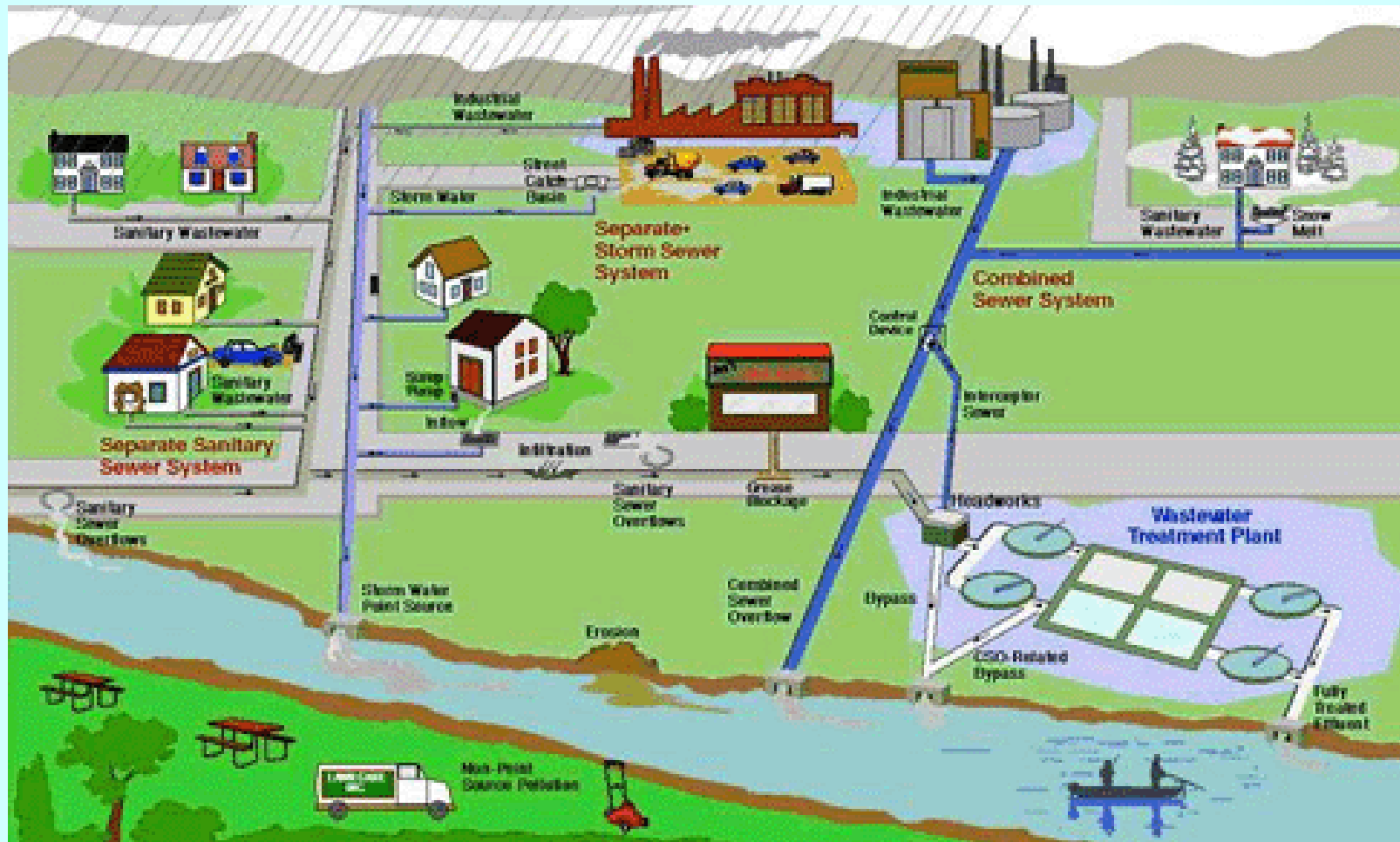






Abastecimento tradicional de água

SISTEMA DE DRENAGEM



Redes públicas: unitárias vs separativas.

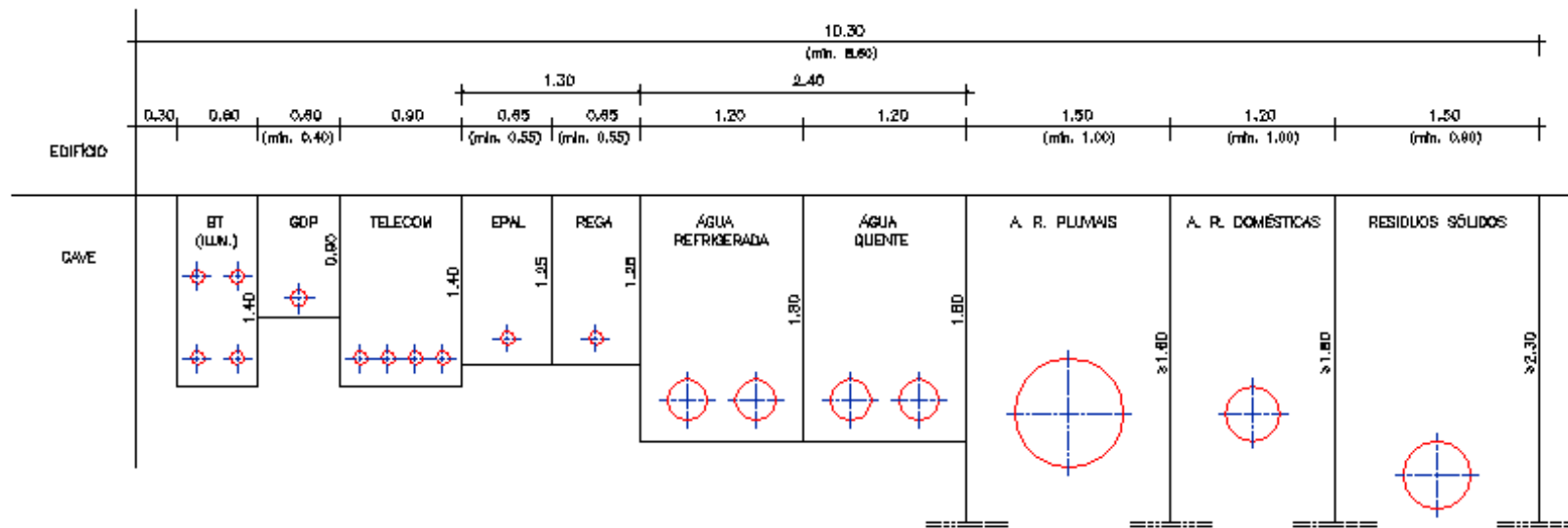


FIGURA 1 - VALAS E DISTÂNCIAS MÍNIMAS

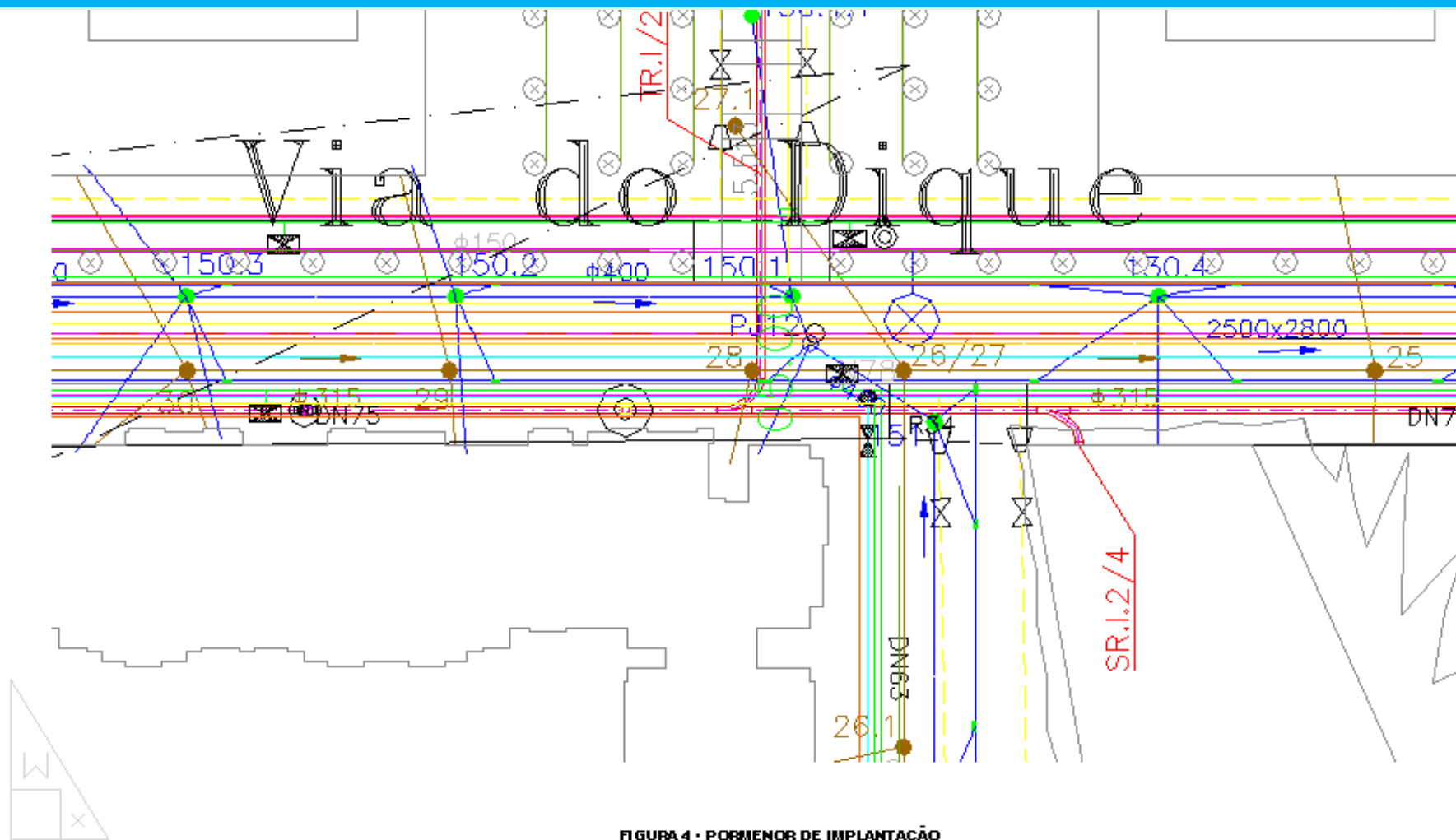
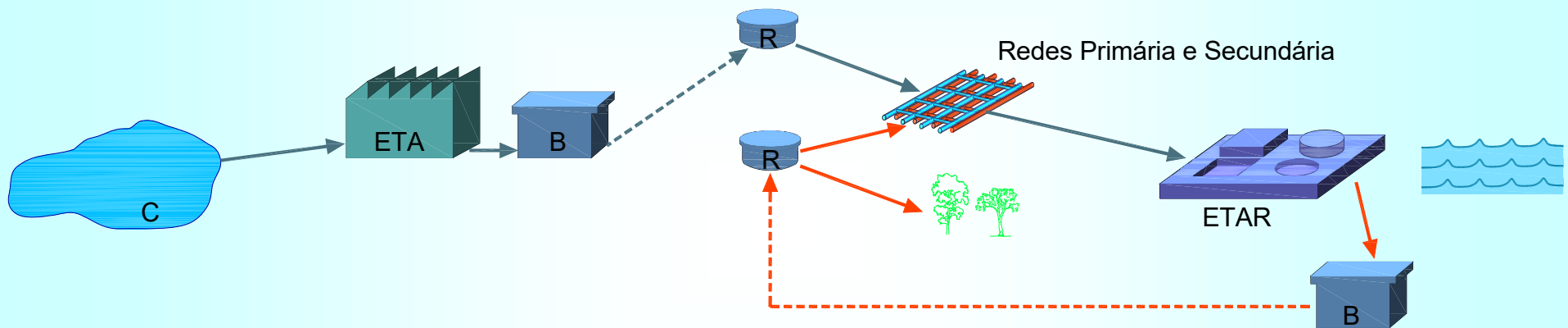
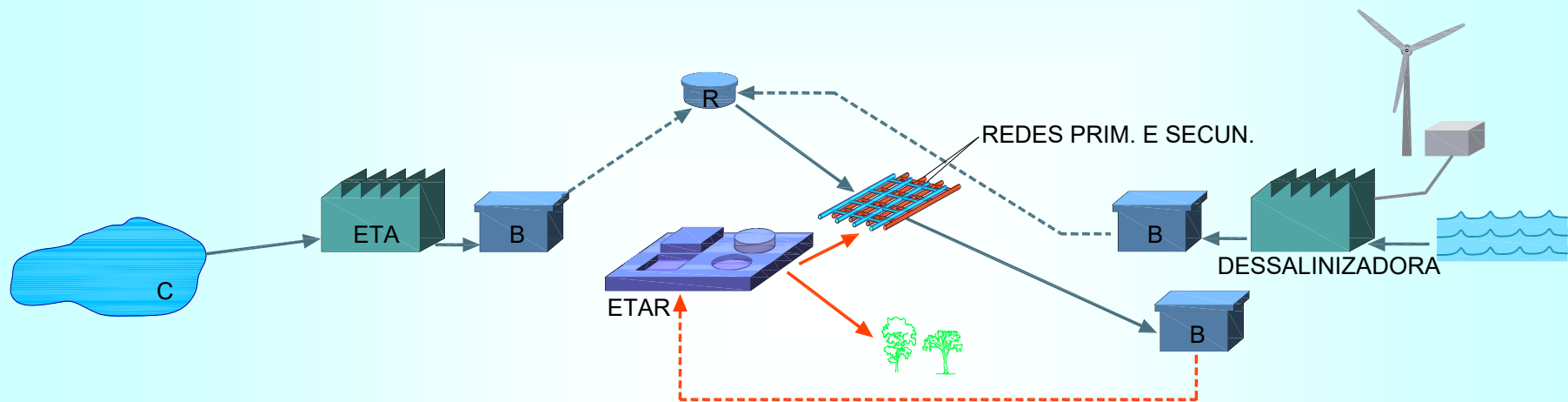


FIGURA 4 - PORMENOR DE IMPLANTAÇÃO NA VIA DO DIQUE



Sistema com reaproveitamento dos efluentes / ETAR a jusante



Sistema de abastecimiento de água com origens e fins múltiplos