2.63 Before commencement, and for the smooth progress of the pipework installation, the Responsible Person shall coordinate and finalise the routes, ground/invert levels, positions of the manholes etc. with the Distribution Company.

2.64 All changes in the design shall be subject to the approval of the Distribution Company.

Detectable tape

2.65 Where Water Supply Systems are run underground, pipe shall be adequately protected and marked using detectable tape. Tape shall be installed 250mm above the buried pipe and shall be in accordance with the following specification:

(a) tape width – 250mm

(b) tape material – plastic

(c) tensile strength – 10 N/mm^2

(d) detection strip width – 50mm

(e) detection strip material – plastic aluminium coated[5]

(f) colour – blue

(g) printing – CAUTION – WATER PIPE BELOW (in Arabic and English)

Pipe bedding and surrounding material

2.66 Pipe bedding and surrounding material shall be well rounded, not angular. When the excavated material is suitable, the bottom of the trench shall be trimmed and loosened to form the bed; otherwise the trench shall be excavated to a depth below the invert level to allow for the thickness of bedding material. No sharp material shall be in contact with the supply pipe.

2.67 When dug material is not suitable, imported granular material shall be used to provide 100mm bedding and surrounding material, see Table 2.1.

2.68 Requirements for imported material for bedding and surrounding nominal pipe size (complying with BS EN 12620).

Table 2.1

Range of pipe: nominal diameter	Pipe bedding and surrounding material
Up to 65mm	Fine or Coarse sands up to 5mm nominal size depending on pipe material
80mm to 150mm	10 to 14mm nominal single sized or 5 to 14mm graded aggregate
150mm and over	10, 14 or 20mm single sized or 5 to 14mm or 5 to 20mm graded aggregate

2.69 All surround and backfill materials up to 500mm above the pipe shall be loose laid and hand compacted only.

[5] The detection strip shall be sealed along its edge