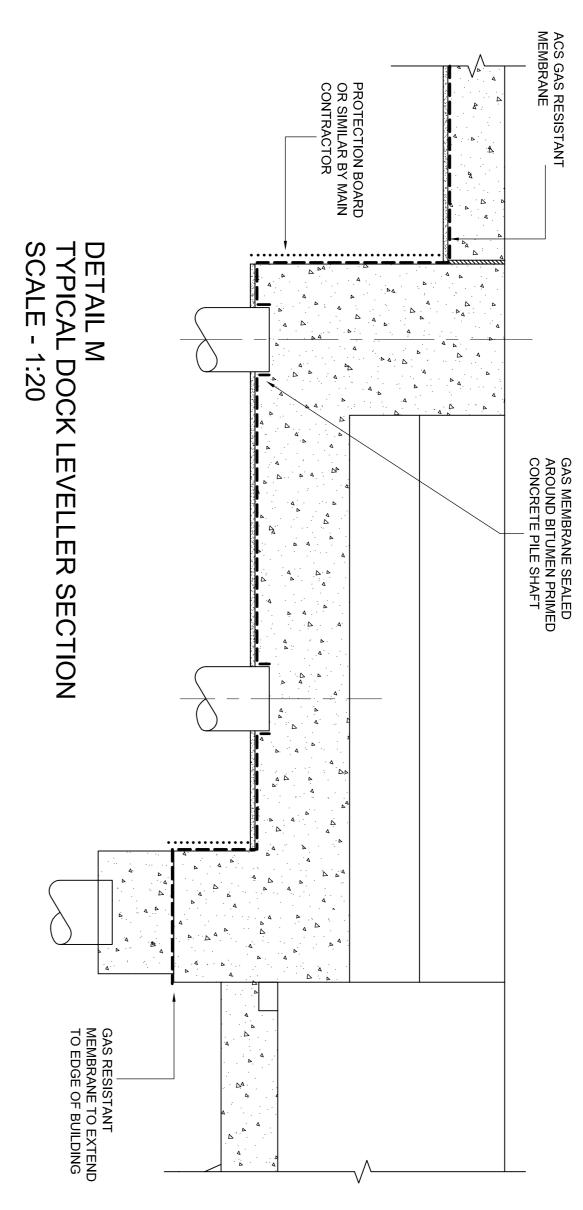


ACS GAS RESISTANT MEMBRANE

DETAIL N TYPICAL INTERNAL MANHOLE SECTION SCALE - 1:20

GAS RESISTANT MEMBRANE SEALED TO MANHOLE FRAME WITH ADHESIVE GAS MEMBRANE



## 7 6 <del>1</del> <u>1</u>0. 9 12 œ Extract pipework to comprise 150mm dia. grey uPVC pipe extending a minimum 2500mm above external ground level and fitted with static vent cowl (ACS Cowl S150) Pipework to be laid within or below granular stone or hardcore layer. Depressurisation Units Excavation and backfilling for pipework to be carried out by MAIN CONTRACTOR. All pipework to have a minimum 150mm cover from underside of slab to top of pipe.

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SPECIFICATION FOR GAS PROTECTION MEASURES

- Gas resistant membrane to be high performance loose lay membrane containing encapsulated aluminium core. Maximum methane permeability 1 x 10 m³/m²/s. (ACS Gas Resistant Membrane) Installation and protection in accordance with manufacturers record on blinded stone throughout. mendations. Membrane to be laid
- Individual membrane sheets to be lapped minimum 100mm and sealed with 30mm wide proprietary butyl tape (ACS Butyl Sealant Tape).

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- All services and other penetrations to be sealed with self adhesive gas resistant membrane (ACS Adhesive Gas Membrane).
- Sub slab depressurisation with individual diffusers comprising a 1000mm length of perforated 100mm ID HDPE pipe backfilled with 10mm to 40mm no fines stone.

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- Diffusers linked to external depressurisation unit via 100/150mm ID HDPE twin wall pipe
- All pipework to be jointed with proprietary push fit connectors.

- Depressurisation units to comprise 13A single phase flame-proof fans mounted in extract pipework. Fan housing by others and to Architects requirements. Location of depressurisation units to be agreed with contractor.

