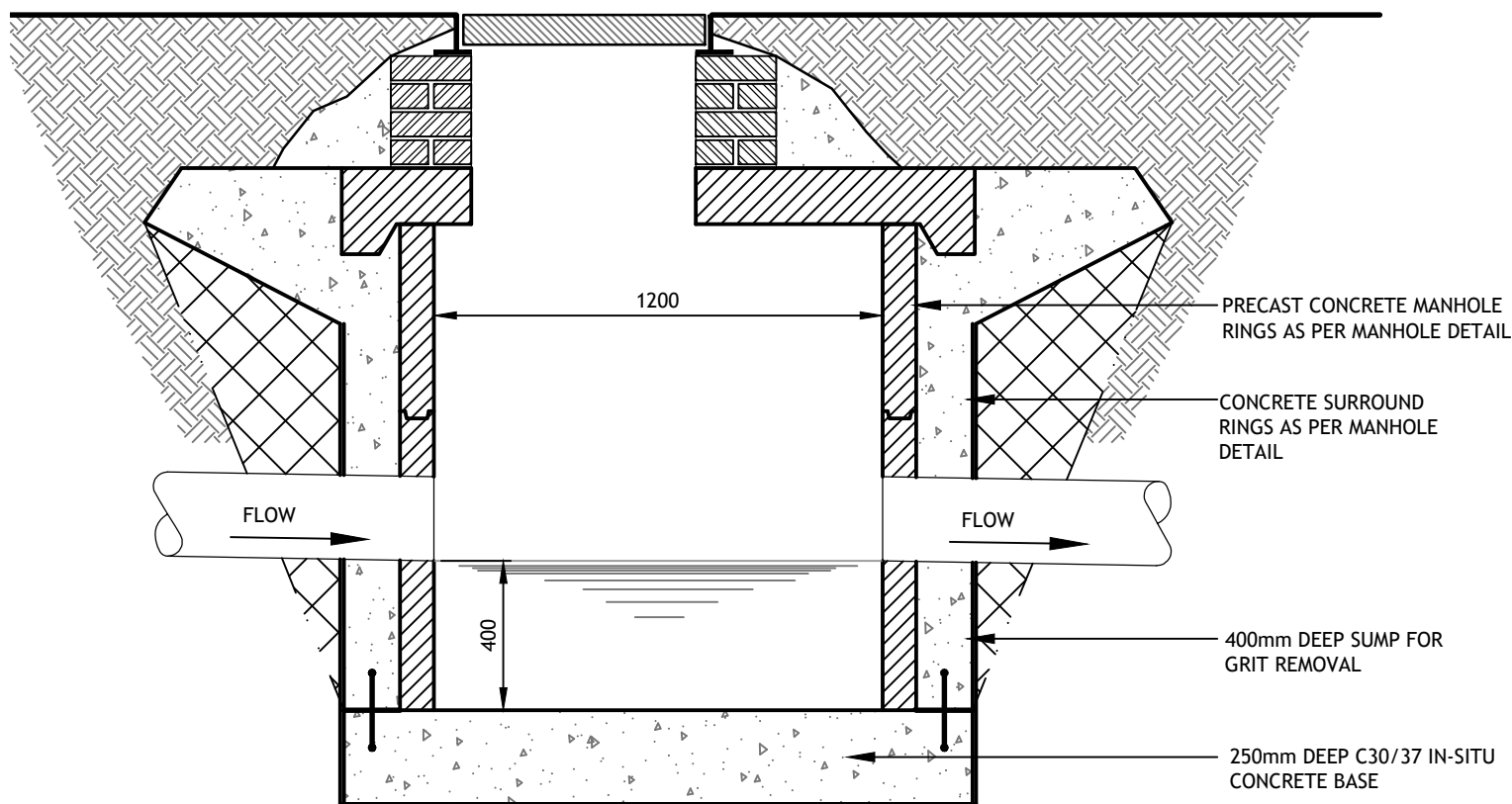
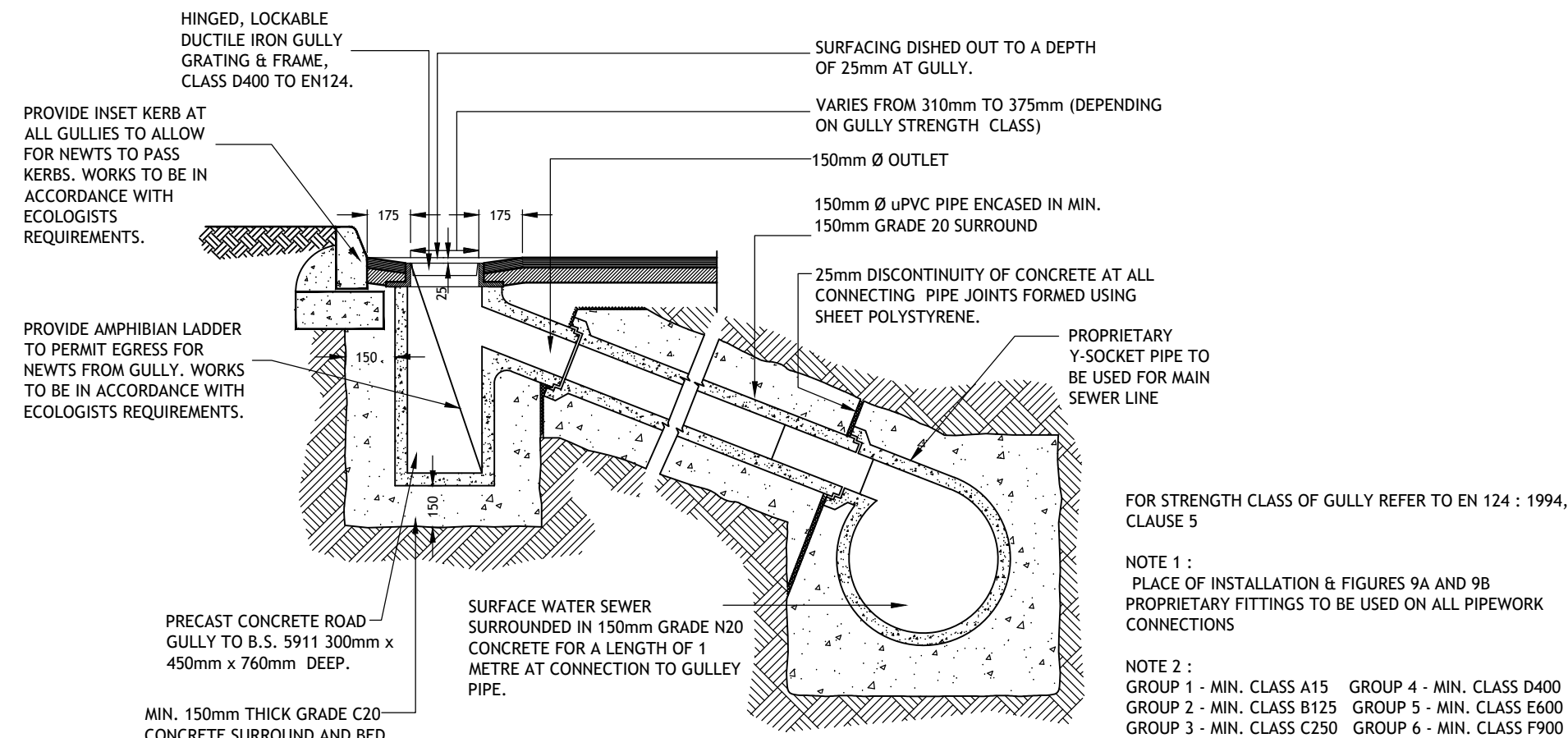


Standard Details For Wastewater Networks		
Drawing No.	Drawing Title	Details Required
STD-WW-01	Wastewater service connection maintenance responsibility	Y
STD-WW-02	Typical layout for sewer within new developments	Y
STD-WW-03	Drain & service connection pipework	Y
STD-WW-04	Typical sewer / service pipe connection	Y
STD-WW-05	Typical service layout indicating separation distances	Y
STD-WW-05A	Wastewater service connection vertical separation distances	Y
STD-WW-06	Restrictions on wastewater infrastructure works adjacent to trees	Y
STD-WW-06A	Restrictions on new trees/shrubs planting adjacent to sewers	Y
STD-WW-07	Trench backfill & bedding	Y
STD-WW-08	Concrete protection slab, bed, haunch & surround to wastewater pipes	Y
STD-WW-09	Blockwork manhole (<450mm dia.)	Y
STD-WW-10	Pre-cast concrete manhole with cast in-situ base	Y
STD-WW-10A	Pre-cast concrete manhole with pre-cast base	Y
STD-WW-10B	Pre-cast concrete pumping station inlet manhole with cast in-situ concrete base	Y
STD-WW-10C	Pre-cast concrete pumping station inlet manhole with precast concrete base	Y
STD-WW-11	In-situ concrete manhole	Y
STD-WW-11A	Cast in-situ concrete pumping station inlet manhole	Y
STD-WW-12	Backdrop and cascade manholes	Y
STD-WW-13	Private side inspection chamber	Y
STD-WW-14	Thrust blocks for rising mains	Y
STD-WW-15	Scur valve chamber (foul rising main <200mm dia.)	Y
STD-WW-16	Sluice valve details for rising mains ductile iron (D.I.) pipe (<200mm dia.) (sheet 1 of 2)	Y
STD-WW-17	Sluice valve details for rising mains polyethylene (P.E.) pipe (<200mm dia.) (sheet 2 of 2)	Y
STD-WW-18	Air valve chamber (foul rising main <200mm dia.)	Y
STD-WW-19	Duct chamber	Y
STD-WW-20	Emergency overflow structure & emergency overflow to storm sewer	N
STD-WW-21	Typical ditch/stream crossing for gravity sewer (sheet 1 of 2)	Y
STD-WW-22	Typical ditch/stream crossing for ductile iron rising main (sheet 2 of 2)	Y
STD-WW-22A	Typical ditch/stream crossing for polyethylene rising main	Y
STD-WW-23	Typical bridge crossing for rising main (sheet 1 of 2)	N
STD-WW-24	Typical bridge crossing for rising main (sheet 2 of 2)	N
STD-WW-24A	Typical culvert and services crossing details for rising main	Y
STD-WW-25	Security gate & fencing palisade option (preferred)	Y
STD-WW-25A	Security gate & fencing wire mesh option	Y
STD-WW-26	Indicative pumping station site layout – access via lay-by	Y
STD-WW-26A	Indicative pumping station site layout – direct access from public road	Y
STD-WW-27	Flow meter chamber (foul rising main <200mm dia.) cast in-situ concrete option	N
STD-WW-27A	Flow meter & valve chamber (foul rising main <200mm dia.) cast in-situ concrete option	N
STD-WW-27B	Flow meter & valve chamber (foul rising main <200mm dia.) pre-cast concrete option	N
STD-WW-27C	Flow meter & valve chamber (foul rising main <200mm dia.) pre-cast concrete option	N
STD-WW-28	Cast in-situ indicative submersible pumping station	N
STD-WW-28A	Indicative pre-cast concrete submersible pumping station with cast in-situ valve chamber	N
STD-WW-28B	Indicative pre-cast concrete submersible pumping station and pre-cast valve chamber	N
STD-WW-29	Rising main discharge stand-off manhole	Y
STD-WW-30	Type 1 pumping station control kiosk	Y
STD-WW-30A	Type 2 and type 3 pumping station control kiosk	Y
STD-WW-31	Pumping station wet kiosk	Y
STD-WW-31A	Pumping station wet kiosk water service connection arrangement	Y
STD-WW-32	Hardstanding area pumping station (permeable & impermeable)	Y
STD-WW-33	Lamp bollard & lamp standard	Y
STD-WW-34	Vent stack	Y
STD-WW-35	Rising main rodding chamber in-situ concrete option	N
STD-WW-35A	Rising main rodding chamber pre-cast concrete option	N
STD-WW-36	Marker posts/plates	Y
STD-WW-37	Section showing wastewater services separation details in high density developments 2.5m wide footpaths with 6.0m wide carriageway	Y
STD-WW-38	Layout plan showing below ground services separation details in high density developments 2.5m wide footpaths with 6.0m wide carriageway	Y
STD-WW-39	Section showing wastewater services separation details in high density developments 1.8m wide footpaths, 2.5m wide parallel parking bays with 6.0m wide carriageway	Y
STD-WW-40	Layout plan showing below ground services separation details in high density developments 1.8m wide footpaths, 2.5m wide parallel parking bays with 6.0m wide carriageway	Y



TYPICAL VERTICAL BACKDROP DETAIL  
NOT TO SCALE



150mm TOPSOIL

750

GROUND LEVEL

TRENCH WRAPPED IN GEOTEXTILE FILTER MEMBRANE

50

110

75

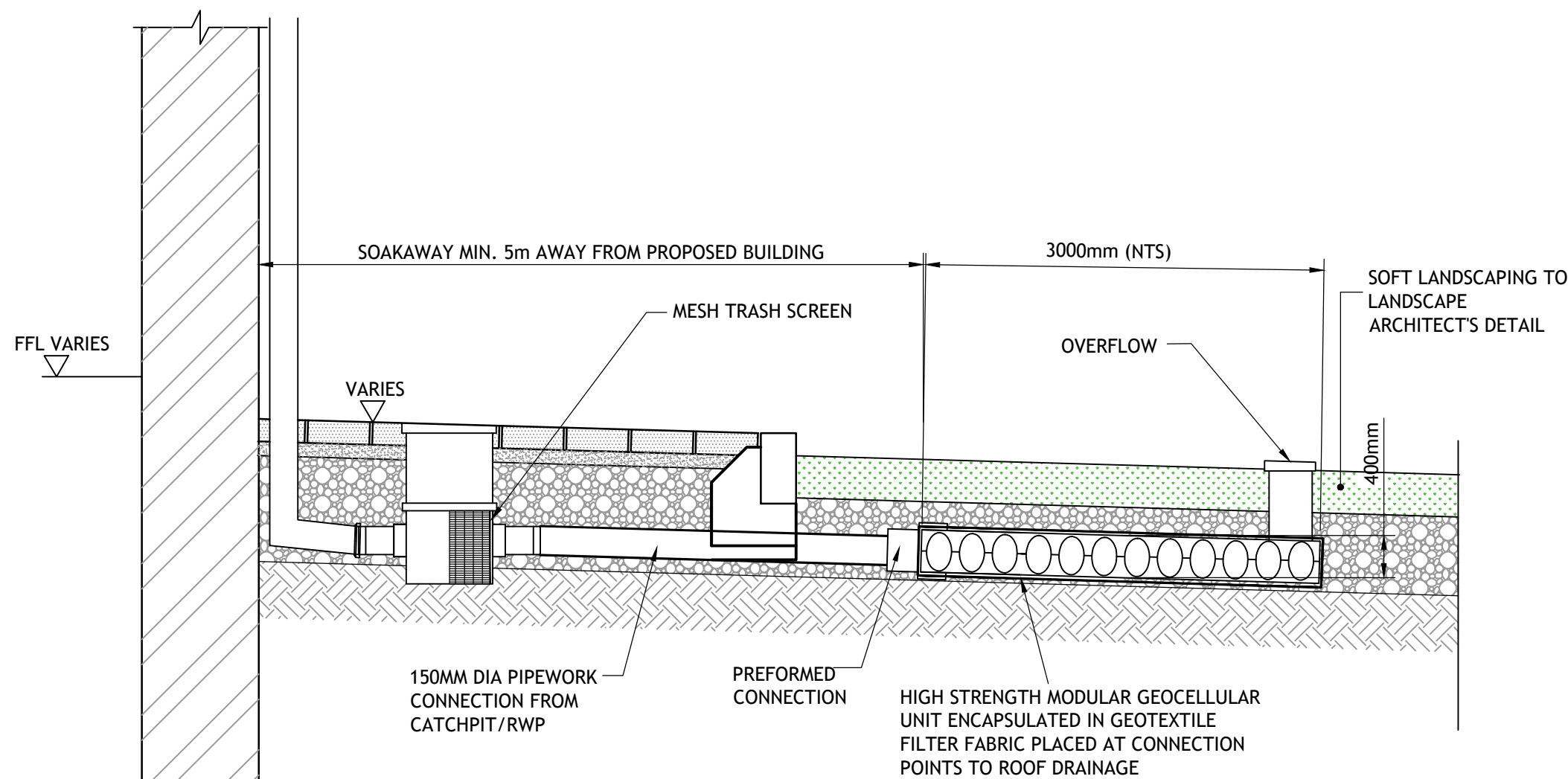
600 MIN.

PERFORATED PIPE (SIZES AS PER DRAINAGE PLAN)

TYPE B FILTER MATERIAL IN ACCORDANCE WITH CLAUSE 505 OF THE SPECIFICATION FOR ROADWORKS

TYPE A FILTER MATERIAL IN ACCORDANCE WITH CLAUSE 503 OF THE SPECIFICATION FOR ROADWORKS

**FILTER DRAIN TYPICAL SECTION**  
NOT TO SCALE



### TYPICAL SECTION THROUGH RAINWATER DOWNSPIPE CONNECTION POINT TO SOAKAWAY IN REAR GARDENS