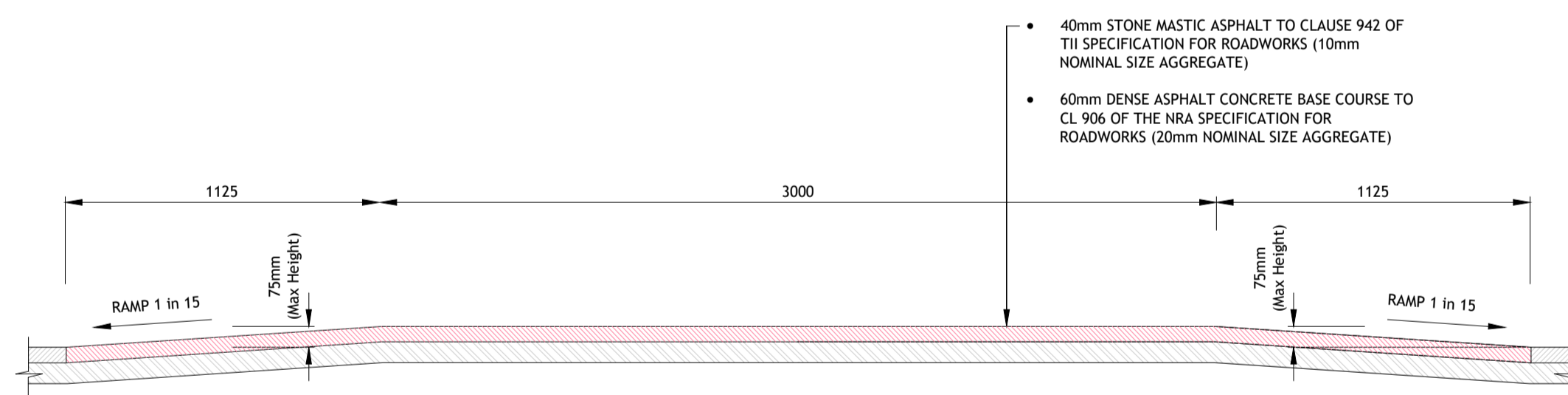
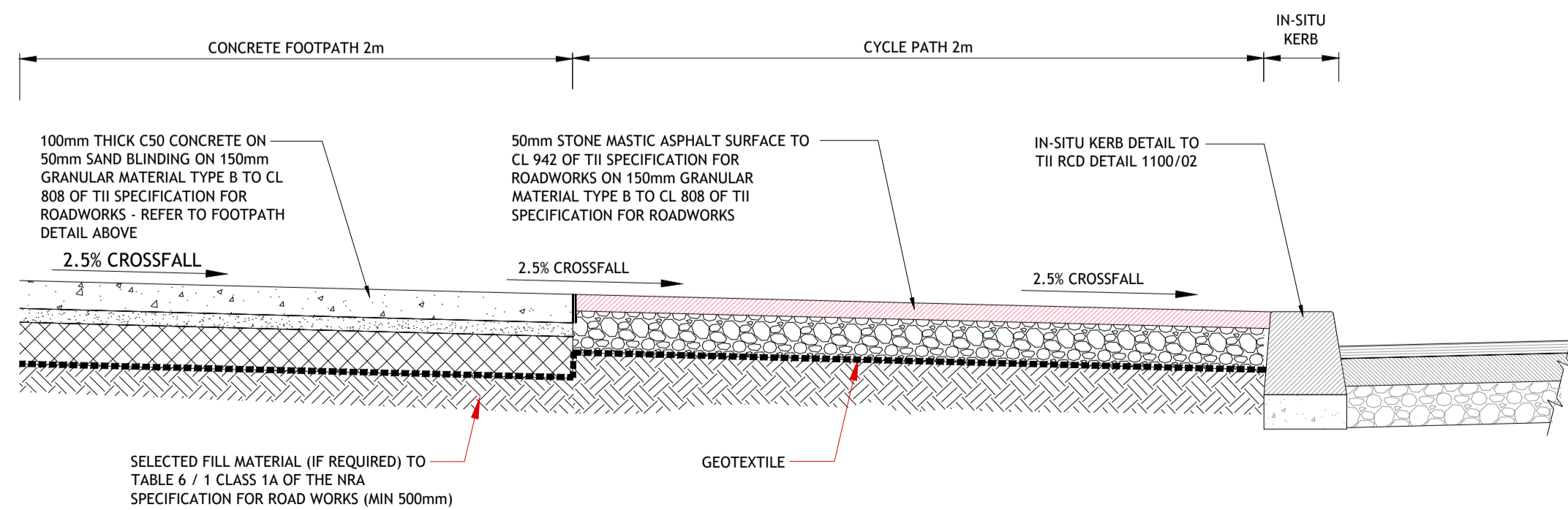


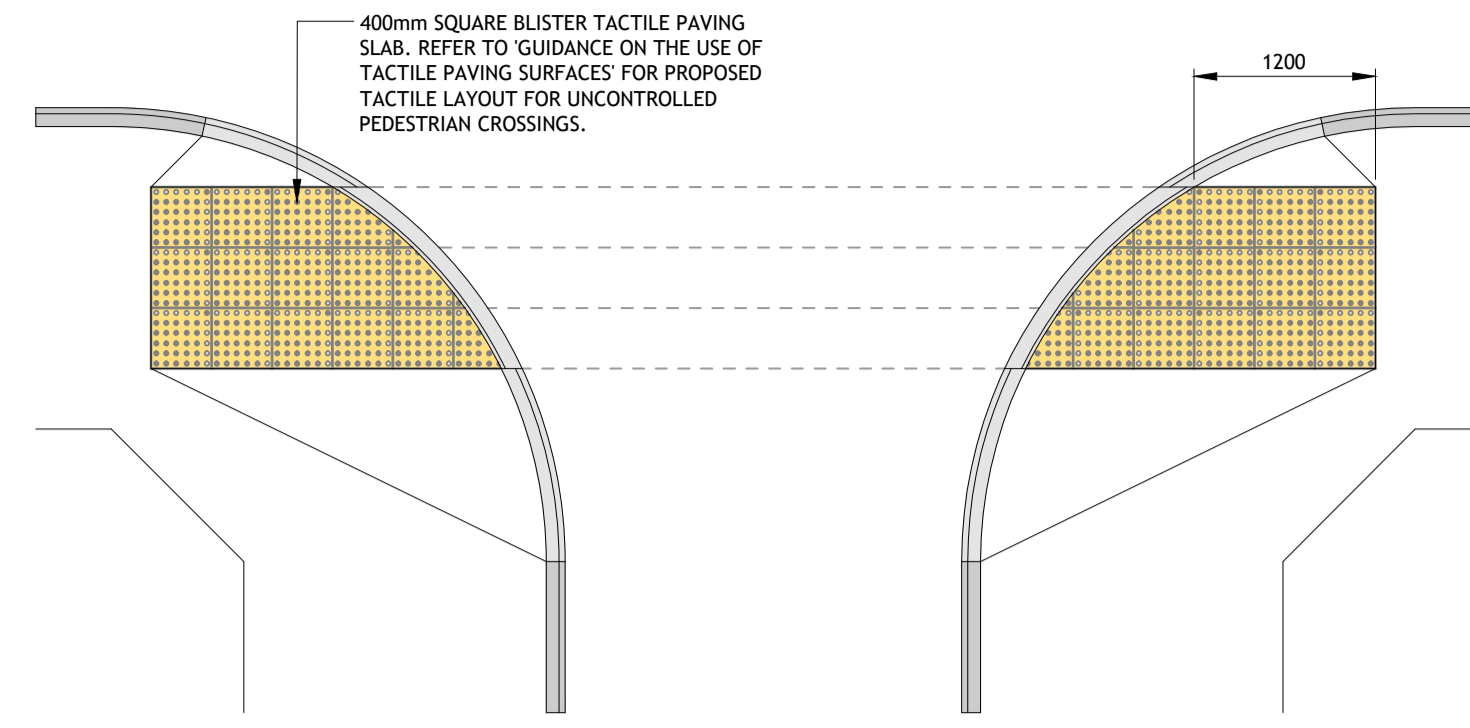
**SPEED RAMP PLAN**  
SCALE 1:20 @ A1



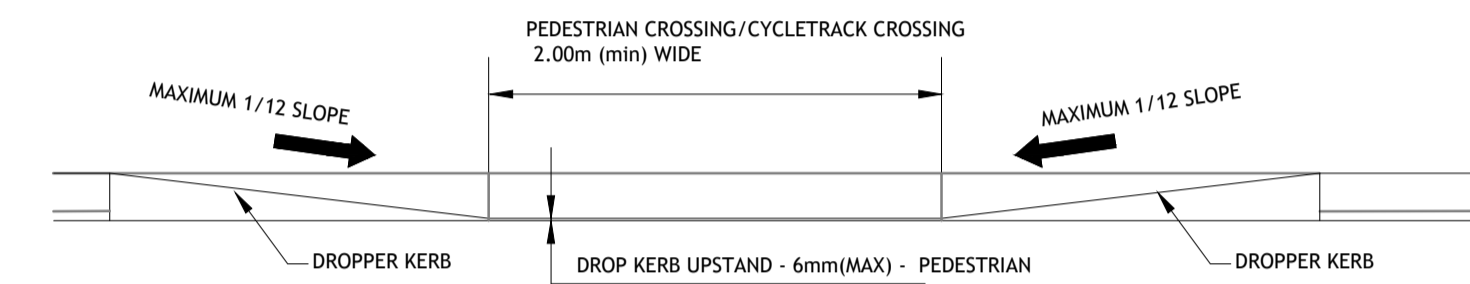
**SECTION A-A THROUGH SPEED RAMP**  
SCALE 1:20 @ A1



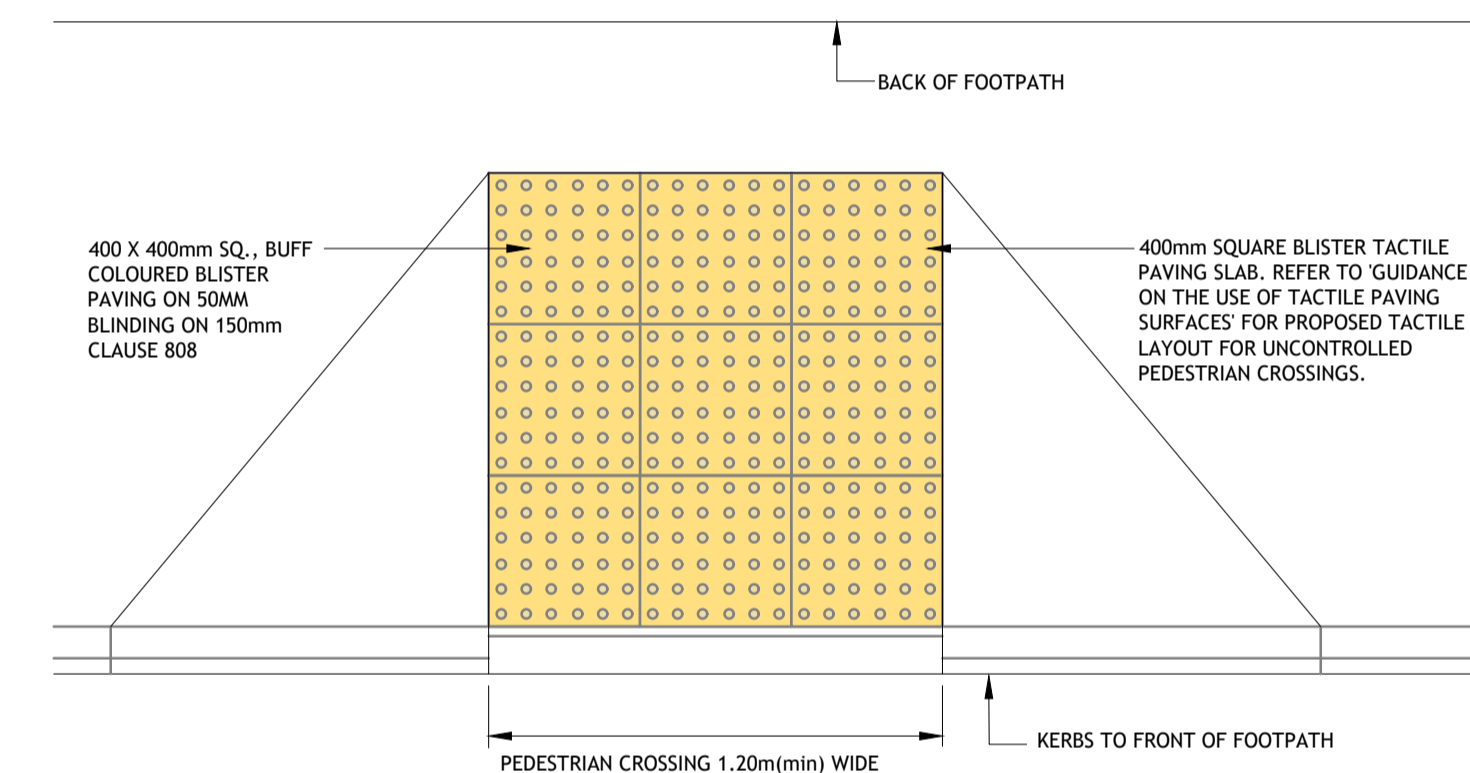
**CYCLE TRACK / FOOTPATH DETAIL**  
NOT TO SCALE



**LAYOUT OF BLISTERED SURFACE AT IN-LINE UNCONTROLLED CROSSING POINT**  
SCALE 1:50



**TYPICAL ELEVATION OF DROPPED KERB**  
NOT TO SCALE

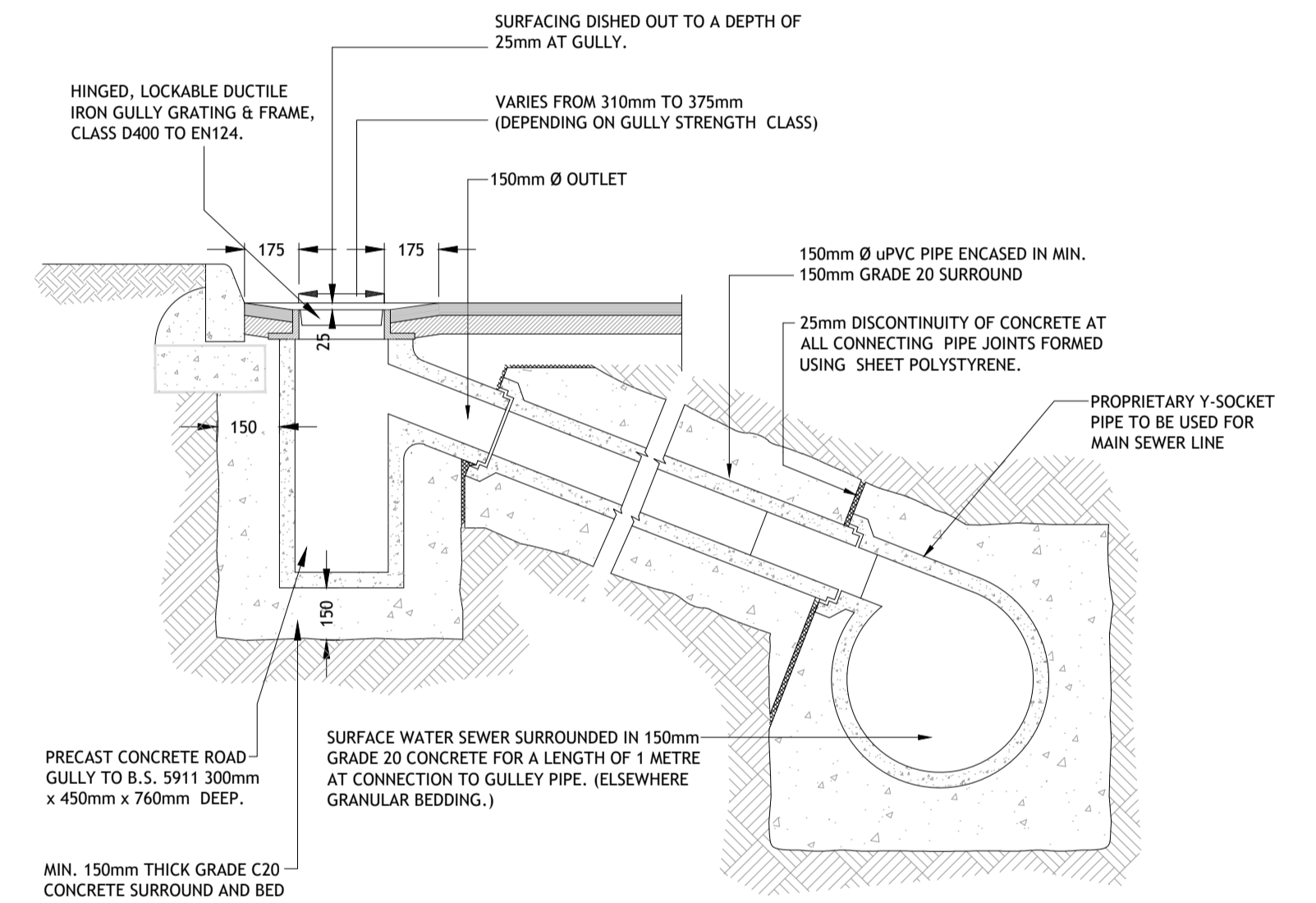


**TYPICAL PLAN OF TACTILE PAVING AT DROP KERB**  
NOT TO SCALE

IRISH WATER WASTEWATER DETAILS	
Drawing No.	Drawing Title
STD-WW-01	Waste water service connection responsibility
STD-WW-02	Typical layout for sewer within new developments
STD-WW-03	Drain & service connection pipework
STD-WW-04	Typical sewer / service pipe connection
STD-WW-05	Typical service layout indicating separation distances
STD-WW-06	Restrictions on wastewater infrastructure adjacent to trees
STD-WW-06A	Restrictions on new trees/shrubs planting adjacent to sewers
STD-WW-07	Trench backfill & bedding
STD-WW-08	Concrete bed, haunch & surround to wastewater pipes
STD-WW-09	Blockwork manhole (<450mm dia.)
STD-WW-10	Pre-cast concrete manhole
STD-WW-11	In-situ concrete manhole
STD-WW-12	Backdrop manholes
STD-WW-13	Private side inspection chamber
STD-WW-14	Thrust blocks for rising mains
STD-WW-15	Scour valve chamber (foul rising main <200mm dia.)
STD-WW-16	Sluice valve details for rising mains ductile iron (D.I.) pipe (<200mm dia.) (sheet 1 of 2)
STD-WW-17	Sluice valve details for rising mains polyethylene (P.E.) pipe (<200mm dia.) (sheet 2 of 2)
STD-WW-18	Air valve chamber (foul rising main <200mm dia.)
STD-WW-19	Duct chamber
STD-WW-20	Emergency overflow structure
STD-WW-21	Typical ditch/stream crossing for gravity main (sheet 1 of 2)
STD-WW-22	Typical ditch/stream crossing for rising main (sheet 2 of 2)
STD-WW-23	Typical bridge crossing for rising main (sheet 1 of 2)
STD-WW-24	Typical bridge crossing for rising main (sheet 2 of 2)
STD-WW-25	Security gate & fencing
STD-WW-26	Indicative pumping station layout
STD-WW-27	Flow meter chamber (foul rising main <200mm dia.)
STD-WW-28	Indicative submersible pumping station
STD-WW-28A	Indicative pre-cast concrete submersible pumping station
STD-WW-29	Rising main discharge manhole
STD-WW-30	Kiosk type 1 pumping station & wet kiosk (sheet 1 of 2)
STD-WW-31	Kiosk type 2 + 3 pumping station & wet kiosk (sheet 2 of 2)
STD-WW-32	Hardstanding area pumping station (permeable & impermeable)
STD-WW-33	Lamp bollard & lamp standard
STD-WW-34	Vent stack

\*DETAILS ABOVE TO BE USED FOR SURFACE WATER NETWORK

IRISH WATER WATERMAIN DETAILS	
Drawing No.	Drawing Title
STD-W-01	Water service connection responsibility
STD-W-02	Typical layout for water mains within developments
STD-W-03	Customer connection & boundary box
STD-W-04	General pipe connections (sheet 1 of 7)
STD-W-05	General pipe connections (sheet 2 of 7)
STD-W-06	General pipe connections (sheet 3 of 7)
STD-W-07	General pipe connections (sheet 4 of 7)
STD-W-08	General pipe connections (sheet 5 of 7)
STD-W-09	General pipe connections (sheet 6 of 7)
STD-W-10	General pipe connections (sheet 7 of 7)
STD-W-11	Typical service layout indicating separation distances
STD-W-12	Restrictions on water infrastructure works adjacent to existing trees
STD-W-12A	Restrictions on new trees / shrubs planting adjacent to water mains
STD-W-13	Trench backfill & bedding
STD-W-14	Sluice valve for ductile iron (D.I.) pipe (<350mm dia.) (sheet 1 of 2)
STD-W-15	Sluice valve for polyethylene (P.E.) pipe (<350mm dia.) (sheet 2 of 2)
STD-W-16	On-line hydrant for ductile iron (D.I.) pipe (sheet 1 of 4)
STD-W-17	Off-line hydrant for ductile iron (D.I.) pipe (sheet 2 of 4)
STD-W-18	On-line hydrant for polyethylene (P.E.) pipe (sheet 3 of 4)
STD-W-19	Off-line hydrant for polyethylene (P.E.) pipe (sheet 4 of 4)
STD-W-20	On-line air valve for ductile iron (D.I.) pipe (sheet 1 of 4)
STD-W-21	Off-line air valve for ductile iron (D.I.) pipe (sheet 2 of 4)
STD-W-22	On-line air valve for polyethylene (P.E.) pipe (sheet 3 of 4)
STD-W-23	Off-line air valve for polyethylene (P.E.) pipe (sheet 4 of 4)
STD-W-24	Pressure reducing / sustaining valve (P.R.V. / P.S.V.) chamber
STD-W-25	Booster pump station arrangement
STD-W-26	Non mech meter chamber (40-250mm dia.)
STD-W-26A	Mech meter chamber (40-250mm dia.)
STD-W-27	Marker posts / plates
STD-W-28	Water main thrust & support blocks
STD-W-29	Duct chamber
STD-W-30	Scour chamber & head wall arrangements
STD-W-30A	Washout hydrant
STD-W-31	Typical ditch / stream crossing for water main
STD-W-32	Typical bridge crossing for water main (sheet 1 of 2)
STD-W-33	Typical bridge crossing for water main (sheet 2 of 2)
STD-W-34	Security gate & fencing
STD-W-35	Pipe repair to existing mains
STD-W-36	Telemetry and wet kiosk
STD-W-37	Lamp bollard & lamp standard



**PRECAST CONCRETE TRAPPED GULLY IN MACADAM AREA**  
SCALE 1:20

Rev	Amendment	By	Date	Rev	Amendment	By	Date	Client:
PLO	PRELIMINARY ISSUE	CN	2021-03-26					