Drg 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 and boundary box (25mm OD pipe) 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) 2 STD-W-10 General pipe connections (Sheet 7 of 7) STD-W-11 Typical service layout indicating seperation distances STD-W-12 Restrictions on Water Infrustructure works adjacent to existing trees STD-W-12A Restrictions on new trees/shrubs planting adjacent to Water mains STD-W-13 Trench Backfill/bedding & reduced cover protection slab detail STD-W-14 Sluice valve for ductile iron (D.I) pipe (Sheet 1 of 4) 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) 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 2 of 4) 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 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 Presure reducing/sustaining valve chamber in-situ R.C option STD-W-25 Booster pump station arrangement STD-W-26 Electromagnetic meter chamber (dn80 - dn250mm Dia.) STD-W-26A Chamber for flanged mech. Meter without strainer (dn40 - dn250mm Dia.) STD-W-26B Chamber for flanged mech. meter (dn40 - dn250mm Dia.) with separate strainer chamber hreaded rotary piston flow meter chamber (dn30 - dn40mm Dia.) In-situ Concrete option STD-W-26C STD-W-26D Threaded rotary piston flow meter chamber (dn30 - dn40mm Dia.) Precast Concrete option STD-W-26E Threaded rotary piston flow meter chamber (dn30 - dn40mm Dia.) Blockwork option STD-W-26F y-pass flow meter chamber (25-32mm O.D.Dia) For developments with <20m3/day water use STD-W-26G low meter chamber (25-32mm O.D.Dia) STD-W-27 Marker posts/plates STD-W-28 Watermain thrust and support blocks STD-W-29 Duct chamber STD-W-30 Scour chamber and head wall arrangements Washout hydrant STD-W-30A STD-W-30B Scour chamber to storm sewer arrangements STD-W-31 Typical ditch/stream crossing for watermain ductile iron option STD-W-31A Typical ditch/stream crossing for watermain polyethylene option 0 STD-W-32 Typical bridge crossing for watermain (Sheet 1 of 2) STD-W-33 Typical bridge crossing for watermain (Sheet 2 of 2) 2 STD-W-33A Typical culvert and services crossing details for watermain 0 STD-W-34 0 Security gate and fencing palisade option (preferred) 3 Security gate and fencing wire mesh option STD-W-35 Pipe repair to existing mains STD-W-36 Flow meter kiosk 3 STD-W-36A PRV/PSV control Kiosk Lamp bollard and lamp standards STD-W-39 Watermain loop detail polyethylene option ection showing wastewater services seperation details in high density developments 2.5m wide STD-W-40 ootpaths with 6.0m wide carrigeways. Layout plan showing below ground services serperation details in high density developments STD-W-41 2.5m wide footpaths with 6.0m wide carriageways ection showing wastewater services seperation details in high density developments 1.8m wide STD-W-42 footpaths, 2.45m wide parralle parking bays with 6.0m wide carrigeways.

SCHEDULE OF IRISH WATER WATERMAIN DETAILS

IRISH WATER WASTEWATER DETAILS

Drg. No.	Drawing Title	Rev
STD-WW-01	Watewater service connection maintenance responsibility	2
STD-WW-02	Typical layout for sewer within developments	2
STD-WW-03	Drain & service connection pipework	2
	· ·	
STD-WW-04	Typical sewer/service pipe connection	2
STD-WW-05	Typical service layout indicating seperation distances	2
STD-WW-05A	Wastewater service connection vertical serperation distances	0
STD-WW-06	Restrictions on wastewater infrustructure works adjacent to trees	2
TD-WW-06A	Restrictions on wastewater infrustructure works adjacent to sewers	1
STD-WW-07	Trench backfill & bedding	2
TD-WW-08	Concrete protection slab, bed, haunch & surround to wastewater pipes	
TD-WW-09	Tblockwork manhole (<450mm dia.)	3
TD-WW-10	Pre-cast concrete manhole with cast in-situ base	3
TD-WW-10A	Pre-cast concrete manhole with pre-cast base	0
TD-WW-10B	Pre-cast concrete pumping station inlet manhole with cast in-situ concrete base	0
TD-WW-10C	Pre-cast concrete pumping station inlet manhole with pre-cast concrete base	0
TD-WW-11	In-situ concrete manhole	3
TD-WW-11A	Cast in-situ concrete pumping station inlet manhole	0
TD-WW-12	Backdrop and cascade manholes	3
TD-WW-13	Private side inspection shambers	3
TD-WW-14	Trust blocks for rising mains	2
TD-WW-15	Scour valve chamber (foul rising main <200mm dia.)	3
TD-WW-16	Sluice valve details for rising mains ductile iron (D.I) pipe (<200mm dia.) (sheet 1 of 2)	4
TD-WW-17	Sluice valve details for rising mains polyethylene (P.E) pipe (<200mm dia.) (sheet 2 of 2)	3
TD-WW-18	Air valve chamber (foul rising main <200mm dia.)	3
TD-WW-19	Duct chamber	3
TD-WW-20	Emergency overflow structure & eme4rgency overflow to storm sewer	2
TD-WW-21	Typical ditch/stream crossing for gravity sewer (sheet 1 to 2)	2
TD-WW-22 TD-WW-22A	Typical ditch/stream crossing for ductile iron rising main (sheet 2 to 2) Typical ditch/stream crossing for polyethylene rising main	0
TD-WW-22A	Typical bridge crossing for rising main (sheet 1 of 2)	2
TD-WW-24	Typical bridge crossing for rising main (sheet 2 of 2)	2
TD-WW-24A	Typical culvert and services crossing details for rising main	0
TD-WW-25	Security gate & fencing palisade option (preferred)	0
TD-WW-25A	Security gate & fencing wire mesh option	3
TD-WW-26	Indicatice pumping station site layout - access via lay-by	1
TD-WW-26A	Indicatice pumping station site layout - direct access from public road	0
TD-WW-27	Flow meter chamber (foul rising main <200mm dia.) cast in-situ concrete option	3
TD-WW-27A	Flow meter & valve chamber (foul rising main <200mm dia.) cast in-situ concrete option	0
TD-WW-27B	Flow meter & valve chamber (foul rising main < 200mm dia.) pre-cast concrete option	0
TD-WW-27C	Flow meter & valve chamber (foul rising main <200mm dia.) pre-cast concrete option	0
TD-WW-28	Cast in-situ Indicatice submersible pumping station with cast in-situ valve chamber	3
TD-WW-28A	Indicative pre-cast concrete submersible pumping station and cast in-situ valve chamber	2
TD-WW-28B	Indicative pre-cast concrete submersible pumping station and pre-cast valve chamber	0
TD-WW-29	Rising main discharge stand off manhole	3
TD-WW-30	Type 1 pumping station control kiosk	3
TD-WW-30A	Type 2 and type 3 pumping station contriol kiosk	0
TD-WW-31A	Pumping station wet kiosk	3 0
TD-WW-31A TD-WW-32	Pumping station wet kiosk water service connection arrangment Hardstanding area pumping station (permeable & impermeable)	2
TD-WW-32	Lamp bollard & lamp standard	2
TD-WW-33	Vent Stack	2
TD-WW-35	Rising main rodding chamber in-situ concrete option	0
TD-WW-35A	Rising main rodding chamber pre-cast concrete option	0
TD-WW-36	Marker posts/plates	0
TD 11011 27	Section showing wastewater services seperation details in high density developments 2.5m wide	
TD-WW-37	footpaths with 6.0m wide carrigeways.	0
TD-WW-30	Layout plan showing below ground services serperation details in high density developments	0
TD-WW-38	2.5m wide footpaths with 6.0m wide carriageways	<u> </u>
TD-WW-39	Section showing wastewater services seperation details in high density developments 1.8m wide	0
	footpaths, 2.45m wide parralle parking bays with 6.0m wide carrigeways.	
	Layout plan showing below ground services serperation details in high density developments	_
STD-WW-40		0

*DETAILS ABOVE TO BE USED FOR SURFACE WATER NETWORK

1. 500mm DEEP FILTER MEDIUM SHALL COMPLY WITH 3. ORGANIC MATER CONTENT - 3-5% (w/w) THE RECOMMENDATIONS OF CIRIA REPORT C753. 2. THE BASIC REQUIREMENTS OF THE MATERIAL

SHALL BE: SATURATED HYDRAULIC CONDUCTIVITY TO BE BETWEEN 100mm/h - 300mm/h - TESTED IN-SITU USING THE SINGLE RING INFILTRATION TEST - EN

ISO 22282-5:2012

POROSITY > 30% (WHEN TESTED IN ACCORDANCE WITH BS 1377-2:1990)

OTHER EXTREMES WHICH MAY BE CONSIDERED

RETARDENT TO PLANT GROWTH SHALL BE 6. THE FILTER MEDIUM LAYER MATERIAL SHALL NOT

BE COMPACTED WHEN PLACED.

5. ANY COMPONENT FOUND TO CONTAIN HIGH

VEGETATION COMMUNITY.

4. SOILS SHALL BE ASSESSED BY HORTICULTURIST TO

LEVELS OF SALT, CLAY OR SILT PARTICLES OR

ENSURE THAT IT WILL SUPPORT HEALTHY

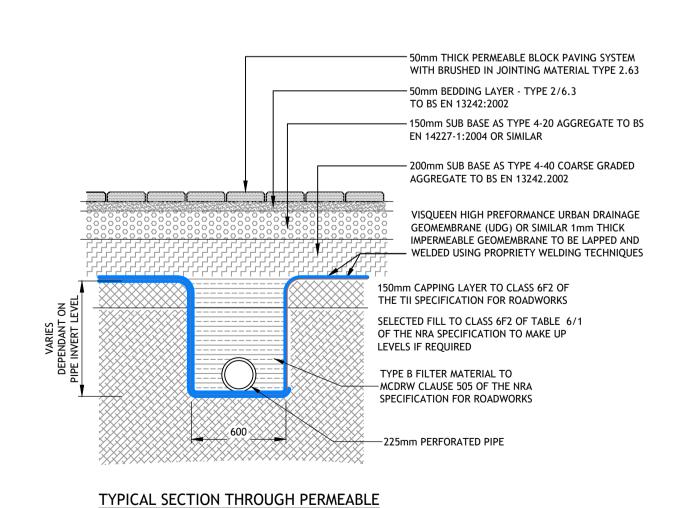
PARTICLE SIZE DISTRIBUTION 100% PASSING 90-100% PASSING 0.6mm 40-70% PASSING

0.2mm 5-20% PASSING

0.063mm <5% PASSING

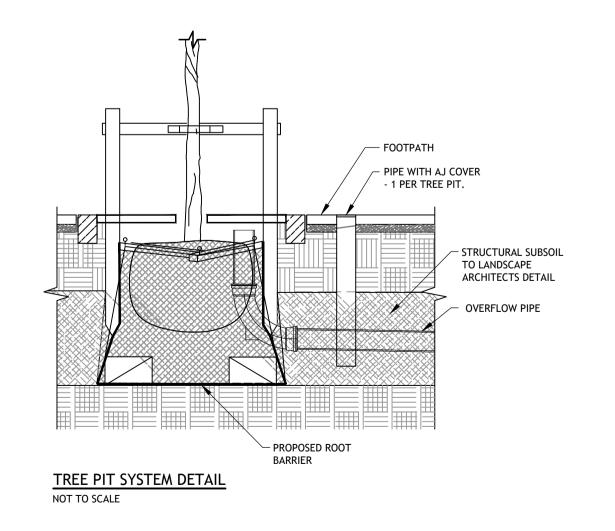
SURFACING DISHED OUT TO A DEPTH OF 25mm AT GULLY. HINGED, LOCKABLE DUCTILE VARIES FROM 310mm TO 375mm IRON GULLY GRATING & FRAME, (DEPENDING ON GULLY STRENGTH CLASS) CLASS D400 TO EN124. —150mm Ø OUTLET 150mm Ø uPVC PIPE ENCASED IN MIN. - 150mm GRADE 20 SURROUND - 25mm DISCONTINUITY OF CONCRETE AT ALL CONNECTING PIPE JOINTS FORMED USING SHEET POLYSTYRENE. -PROPRIETARY Y-SOCKET PIPE TO BE USED FOR MAIN SEWER LINE SURFACE WATER SEWER SURROUNDED IN 150mm-PRECAST CONCRETE ROAD ☐ GRADE 20 CONCRETE FOR A LENGTH OF 1 METRE GULLY TO B.S. 5911 300mm AT CONNECTION TO GULLEY PIPE. (ELSEWHERE x 450mm x 760mm DEEP. GRANULAR BEDDING.) MIN. 150mm THICK GRADE C20 -CONCRETE SURROUND AND BED

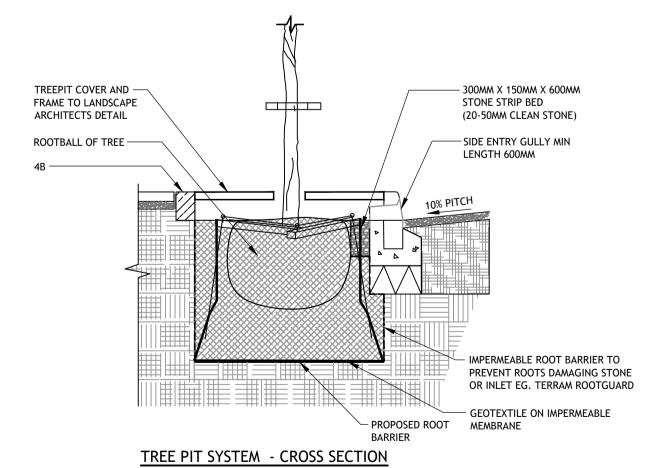
PRECAST CONCRETE TRAPPED GULLY IN MACADAM AREA SCALE 1:20



Layout plan showing below ground services serperation details in high density developments

1.8m wide footpaths, 2.5m wide parrallel parking bays with 6.0m wide carriageways





NOT TO SCALE

FOR PLANNING PURPOSES ONLY

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PAVING BUILD UP

STD-W-43

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COLOUR DRAWING





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1	BUILDING INFORMATION MODELLING (BIM)
	NSAI Certified

Rev	Amendment	Ву	Date	Rev	Amendment	Ву	Date	Client:



58 O'Connell Street, Living Georgian Limerick								
Proposed Drainage Details								
wn:	Date drawn:	Technician Check:	Engineer Check:	Approved:				
S.K.	12/12/2022	PJM	JT	KM				
ject No: 201220	Model Ref: 201220-PUNCH-X	(X-XX-M2-C-0150	Drawing Status:					
lo @ A1:	Document No:			Povision No:				

201220-PUNCH-XX-XX-DR-C-0150