

Standard Detail Drawings



General

- G1 Private Right of Way
- G2 Non-residential/Business Private Ways Construction

Roading

- R1 Road Name Sign
- R2 Services Layout Berm Cross Section (urban)
- R3 Design Chart Flexible Pavements
- R4 Vehicle Crossing (urban) Footpath Adjacent to Kerb
- R5 Vehicle Crossing (urban) Footpath Away from Kerb
- R6 Vehicle Crossing (urban) High Speed Turnoff
- R7 Vehicle Crossing Commercial
- R8 Vehicle Crossing (urban) Drainage via Grass Berm
- R9 Vehicle Crossing (urban) Non-standard Berm Slope
- R11 Intersection Sight Distance
- R13 Cul-de-sac Head Dimensions
- R14 Cul-de-sac Head Alternatives
- R16 Typical Dimensions Kerb and Channel
- R17 Typical Catchpit Details
- R19 Recess Catchpit
- R21 Wheelchair Ramp Kerb Crossing
- R29 Standard Rural Property Entrance Residential
- R31 Private Heavy Vehicle Access
- R32 Sand for Use in Replacement of Undercuts in Road Works

Stormwater

- SW1 Stormwater Catchment Boundaries
- SW2 Design Rainfall DDF Curves
- SW3 Onehunga-Manukau Harbour Datums & Tides
- SW4 Cast in Situ Reinforced Concrete Drainage Structures
- SW5 Precast Manhole Flanged Base up to 4.5m Deep
- SW6 Stormwater Manhole Details Cast In-Situ Base
- SW7 Precast Manhole Cast In-Situ Base for Pipes >600mm
- SW8 Manhole Throat Details
- SW9 PE Pipe Manhole Connections
- SW10 Stormwater Catchment Boundaries
- SW11 Catchpit 1 of 2
- SW11 Catchpit 2 of 2
- SW13 RAMP Riser for Stormwater House Connections
- SW14 Anchor Block Details
- SW15 Pipe Bedding
- SW16 Inlet and Outlet Structures
- SW17 Build Over Influence Zone and Clearances to Manholes
- SW18 Foundation/Pipe Clearances for Building Close to Public Drains
- SW19 Minimum Freeboard Requirements for Building Adjacent to Floodplains
- SW20 Groundwater Recharge Pit for Peat Areas Plan
- SW21 Groundwater Recharge Pit for Peat Areas Cross Section
- SW22 Recharge Pit Feature Dimensions V Impervious Area



Waste Water

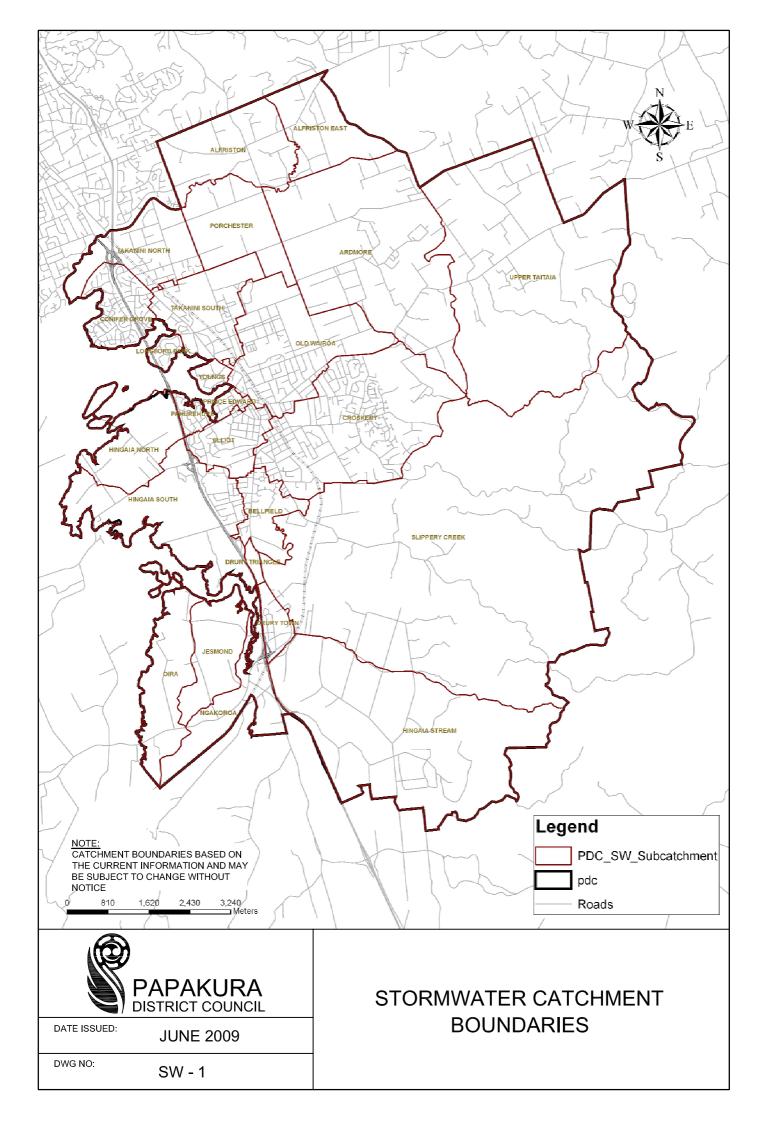
Contact United Water (U.W.I)

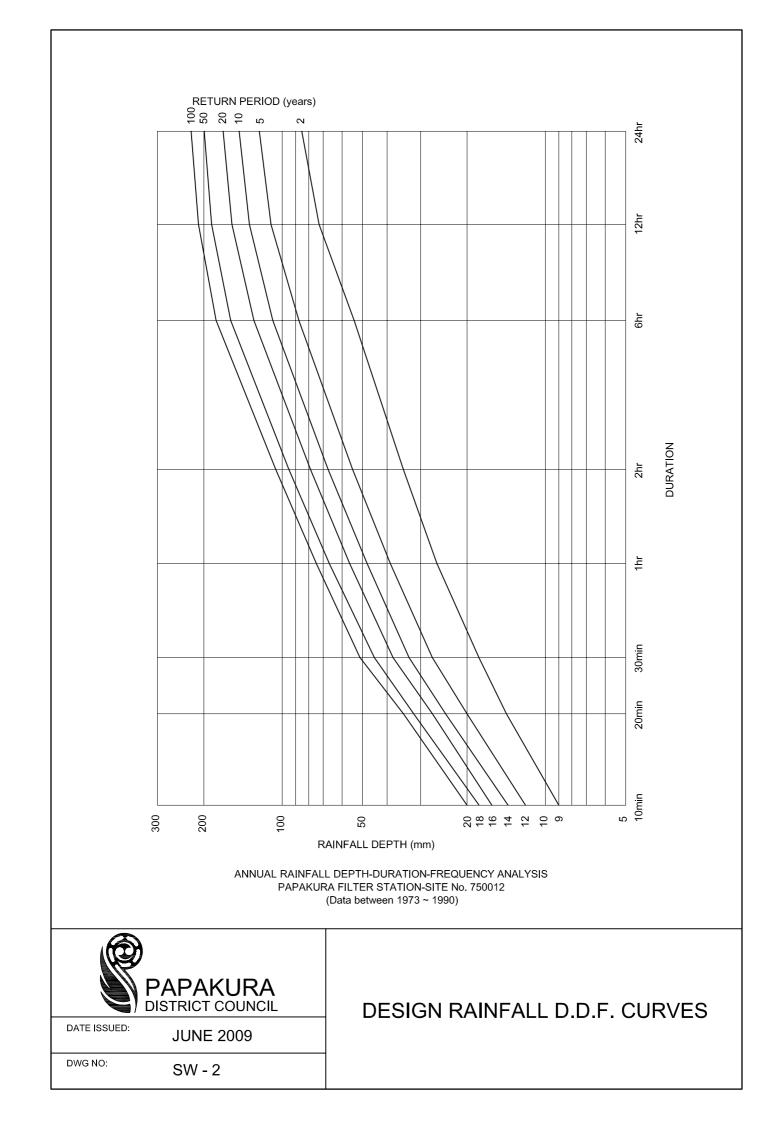
Water

Contact United Water (U.W.I.)

Parks and Reserves

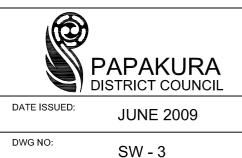
- P1 Pedestrian Accessway Details
- P3 Standard Park Barriers
- P4 Berm Cross-Section for Tree Landscaping
- P5 Street Tree Placement





ONEHU	NGA - MAI		
LEVELLING DATUMS	Metres	Metres	SOUNDING DATUMS
L&S B.M. C.C.65	3.392	5.593	L&S B.M. C.C. 65
	2.74	4.94	HIGHEST RECORDED TIDE 21-6-47
OLD AUCKLAND TRAMWAY DATUM	1.756		
	1.7	3.9	MEAN HIGH WATER SPRINGS
	1.49	3.7	MEAN HIGH WATER
OLD A.R.A. & A.C.C. DATUM	1.189		
	1.1	3.3	MEAN HIGH WATER NEAPS
	0.10	2.30	MEAN SEA LEVEL
L & S AUCKLAND DATUM 1946	0.00	2.201	
COMMON DATUM 1-1-1973			
	0.9	1.3	MEAN LOW WATER NEAPS
	1.5	0.7	MEAN LOW WATER
	1.6	0.6	MEAN LOW WATER SPRINGS
ZERO ON AUTOMATIC TIDE	2.201	0.000	A.H.B. SOUNDING
GAUGE 1 - 1 - 1973			DATUM NAVY DEPT. CHART DATUM
OLD ZERO ON AUTOMATIC TIDE	2.505	0.305	OLD A.H.B. SOUNDING DATUM
GAUGE L.W.S.T OBSOLETE	2.68	0.48	LOWEST RECORDED TIDE
AUCKLAND DOCK SILL	2.810	0.610	AUCKLAND DOCK SILL

VALUES FROM N.Z.TIDE TABLES FROM 1-1-73, THE A.H.B AND MOST AUCKLAND LOCAL BODIES HAVE ADOPTED the L&S AUCKLAND DATUM 1946 AS THEIR COMMON DATUM. THIS IS THE DATUM FOR L&S PRECISE LEVELLING USED ALSO BY THE MINISTRY OF WORKS AND THE RAILWAY DEPT (AT THAT TIME).



ONEHUNGA - MANUKAU HARBOUR DATUMS AND TIDES LEVELLING DATA

(Based on Auckland Harbour Board Datums Dwg S.90/22 Feb. 1973)

GENERAL CONSTRUCTION NOTES

STANDARDS RELATING TO WORKS

ALL WORK IS TO BE CARRIED OUT TO THE REQUIREMENTS OF THE HEALTH AND SAFETY ACT 1992.

ALL WORK IS TO BE CARRIED OUT TO THE HIGHEST STANDARD APPLICABLE.

MANUFACTURERS SPECIFICATIONS

ALL MATERIALS AND PRODUCTS ARE TO BE USED AND INSTALLED AS PER MANUFACTURERS' SPECIFICATIONS.

CONCRETE

ALL ON-SITE CONCRETE TO BE 17.5 MPa UNLESS OTHERWISE STATED.

WELDING & FIXINGS

ALL STEELWORK TO BE WORKSHOP FABRICATED, NO ON-SITE WELDING.

ALL STEEL WORK TO BE HOT DIP GALVANISED TO AS/NZS 4680:1999.

ALL METAL NUTS, BOLTS AND WASHERS TO BE HOT DIP GALVANISED. UNLESS OTHERWISE STATED E.G. "STAINLESS".

REINFORCING STEEL

ALL STEEL TO BE "DEFORMED" MILD STEEL BARS GRADE 500E UNLESS OTHERWISE SPECIFIED.

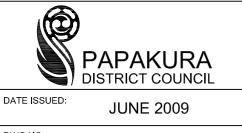
ALL STEEL TO BE PLACED CENTRAL WITH 60mm MINIMUM COVER FOR PRINCIPAL STEEL AND 50mm ELSEWHERE.

ALL RADIUS REQUIRED TO BE COLD FORMED.

WORKS REQUIRING EPOXY

ANY STAINLESS STEEL FIXINGS THAT ARE EPOXIED IN PLACE ARE REQUIRED TO BE SUPPLIED FROM THE MANUFACTURER "<u>NOT OILED</u>".

ALL METAL FIXINGS AND OR STAINLESS STEEL TO BE EPOXIED WILL USE EPCON C6 EPOXY OR SIMILAR, TO ENGINEERS RECOMMENDATIONS.



GENERAL CONSTRUCTION NOTES FOR CAST IN SITU REINFORCED CONCRETE DRAINAGE STRUCTURES

DWG NO:

SW - 4

