

1	EARTHWORKS AND GEOTECHNICAL REQUIREMENTS	23
1.1	Scope	23
	<i>Add the following sentence:</i>	
	<i>This document shall be read in conjunction with NZS4404:2010.</i>	
	<i>Delete the last sentence of C1.1 and replace with:</i>	
	<i>For these purposes, refer to the Whanganui District Council District Plan.</i>	
1.2	Interpretation	23
	1.2.2	
	<i>Add the following sentence:</i>	
	<i>... and plural words have the same definition of singular words:</i>	
	<i>Add the following new definitions:</i>	
	<ul style="list-style-type: none"> • <i>AUTHORISED OFFICER – the Authorised Officer for Wanganui District Council for approving engineering plans is the Council’s Subdivision Engineer or as delegated by Whanganui District Council.</i> • <i>AUTHORISED REPRESENTATIVE - A person appointed by the Authorised Officer to oversee the Development works on his behalf.</i> • <i>DESIGNER/DESIGN ENGINEER - the Designer/Design Engineer shall be a person with experience and qualified to sign off producer statements.</i> • <i>DEVELOPERS SITE REPRESENTATIVE - means a professional engineer or engineering technician appointed by the Developer, and accepted by the Whanganui District Council, to supervise the development works on his behalf.</i> • <i>EARTHWORKS: area greater than 100m² and 500mm deep.</i> • <i>GEOTECHNICAL ENGINEER means a Chartered Professional Engineer (CPEng), or an engineering geologist, with recognised qualifications and experience in geotechnical engineering, and experience related to the development.</i> • <i>SUITABLY QUALIFIED DESIGN PROFESSIONAL - As defined in the “Guidance on Use of Producer Statements” document – See Appendix k.</i> • <i>SUITABLY QUALIFIED PROFESSIONAL – See above.</i> 	
1.3	Context	30
1.4	Low impact design	32
1.5	Climate Change	32
	C1.5	
	<i>Replace:</i>	
	<i>“proposed ‘New Zealand coastal policy statement’ (policy 52)”</i>	
	<i>With:</i>	
	<i>“New Zealand Coastal Policy Statement 2010 (policy 25)”.</i>	
1.6	Urban design protocol	32
1.7	Requirements for design and construction	33
	1.7.1	
	<i>Add the following new clause:</i>	
	<i>(d) The developer’s designer shall to be confirmed and accepted in writing with Whanganui District Council prior to design commencing.</i>	
1.8	Approval of design and construction	33
	1.8.2.4	
	<i>Add the following new clause:</i>	
	<i>(j) See legend of line type and symbols in Appendix A.</i>	

1.8.2.5

Add the following new sections:

1.8.2.5.1 As Built drawings shall be submitted in accordance with Appendix J of this document

1.8.2.5.2 All levels to be shown on a plan shall be in terms of a recognised datum. The following hierarchical precedence is currently in effect for datums.
City datum

New Zealand Vertical Datum 2009 (NZVD 2009)

Note: NZVD 2009 = Moturiki 1953 + 0.24m; or
NZVD 2009 = City Datum + 0.30m

The recognised LINZ mean sea level datum i.e. Moturiki Datum 1953 or Wellington Level Datum 1953 or New Zealand Geodetic Datum 2000 (NZGD2000)

Assumed datum with easily recognised origin (i.e. Manhole lid and invert level)

A local peg is only acceptable in rural areas.

1.8.2.5.3 Level Control

On each development in excess of 7 lots, and, where a road is required to service the lots, and there is an existing Whanganui City or Land Information New Zealand level Bench Mark within 500m of the intersection of the new road with the existing road, the developer shall arrange with the surveyor to install within the new road reserve, (in a position that will remain free from disturbance and as part of the survey traverse network), a permanent Reference Mark set in a concrete block of 300mm square and 450mm deep.

The mark is to be either a Land Information New Zealand bronze plaque or a stainless steel pin complying with the Land Information New Zealand Geodetic standards.

The mark so placed is to be levelled in terms of the adjacent Bench Mark to Land Information New Zealand 2nd Order Standards. The level is to be shown in Whanganui City Datum on the as built plans supplied to the Whanganui District Council at the completion of the development.

Where there is no existing Bench Mark within 500m of the development, a mark as described above is to be placed for future expansion to the level network.

1.8.2.5.4 Detail plans are required for each service on a separate sheet. A general arrangement plan to show all services without detailed information shall also be provided. The drawings shall be submitted in PDF and DXF format. The format of the DXF file must be identified when submitting.

1.8.3.3

Add the following new clause:

Whanganui District Council require that the designer ensure that their design promotes minimum maintenance costs. This applies to all references relating to lifecycle cost throughout NZS 4404

1.8.4.1

Add the following new clauses:

The Whanganui District Council require 3 sets of drawings for approval. One signed approved set will be returned to the developer. This matches the Building Consent approval process.

Rail

Subdivisions adjoining or crossing a rail line will require the necessary approval from KiwiRail (New Zealand Railways Corporation).

Airports

Subdivisions adjoining or crossing an airport will require the necessary approval from the Airport Authority.

State Highway

Subdivisions adjoining or crossing a state highway will require the necessary approval from the New Zealand Transport Agency.

1.8.4.2

Add the following new clause:

No development works are to commence until the developer has identified all potential hazards, and formulated a Health and Safety Plan to address these hazards and all other requirements of the Health and Safety in Employment Act.

1.8.5.2

Add the following new clause:

(i) All CCTV and Testing of pipes, trenches, fill and road formation shall be submitted and approved by Whanganui District Council prior to sealing of road.

1.8.9

Add the following new clause:

The Whanganui District Council will, at S224 approval stage, require a two year performance bond from the Developer, effective from the time of issue of the Section 224 Certificate. Whanganui District Council may call upon the applicant to meet the costs of any failure of the road or public services, which can be attributed to faults in the design, or construction of the development.

1.1.1. Completion Documentation

1.9	Bonds and charges	39
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