

Cert 1b - Engineering Design Approval APPLICATION



Resource Consent Number:

Development Name and Stage:

Site Address:

Design Engineer and Qualification(s):

Agent Contact Details

Design Firm:

Address:

.....

Phone: ()..... Mobile: ().....

Email:

Plans Attached for: (Please tick where applicable)

- Streetlighting
- Roading
- Stormwater
- Sanitary Sewer
- Water
- Landscaping

- Construction Specification Enclosed or:
Reference is to Council's Development Code or:
Both where there are specific requirements

Schedule of Assets to determine the processing fee enclosed

All submitted plans are in accordance with the Western Bay of Plenty District Council's Subdivision and Development Code of Practice / Development Code.

Checklist has been completed

If not in accordance, have the alternative designs been approved? Yes No N/A

If yes, please provide a list of the items subject to an alternative design:

.....

Applicant's Signature: Date:
(To be signed on behalf of the applicant)

Fees and Charges - see Council publication for details*:

*Note: Fees and charges include GST

Amount enclosed:

\$_____

Payment Details:

Name and address of person liable for application processing fees / refunds (where applicable)
An invoice will be forwarded to the agent prior to the release of the approved engineering documents.
This invoice is calculated in accordance with WBOPDC's Fees & Charges.

First Names/s (in full): Surname:

Postal Address:

.....

Phone: () Mobile: ()

Email:

Please forward this form with the listed requirements to Development Engineering Technician.

Cert 1b - Checklist

Notes:

1. This checklist is to be filled out by the applicant.
2. The list is a guide for applicants and Council staff to make sure that all criteria needed for the development have been taken into consideration and are included in the report/designs.
3. Cross references to the Code's relevant sections and standard drawings are included, as well as some District Plan Rules - however these may be incomplete.
4. Compliance and the Development Code rules is the applicant's responsibility.
5. Simply check each element (item) and tick (✓) the relevant box for Yes or Not Applicable.
6. Please only submit those pages that apply to your development.

Item	Development Code Sections	Drawing No.	District Plan Rule or other	Yes - considered and included in design report/drawings. Tick boxes below	Not applicable. Tick boxes below	Comments
GENERAL:						
Design Report/Drawings						
All applications shall include a written report (design report) and drawings that address the items below and any specific Council requirements.						
Specifications						
The council's Development Code should be referred to in the drawings and in the report. Please do NOT supply specifications for elements already covered by the Code. Applicants may need to provide specifications for some elements of the design where designs are specific or alternative to the Code.						
Materials						
All materials for all works shall be as per the approved products and materials listed in this Code and in the Tauranga City IDC unless otherwise approved.	See Construction section "Approved Products & Materials" and TCC - IDC					

Item	Development Code Sections	Drawing No.	District Plan Rule or other	Yes - considered and included in design report/drawings. Tick boxes below	Not applicable. Tick boxes below	Comments
Resource Consent						
Check resource consent conditions for any specific requirements and include in report/design.						
DESIGN ELEMENTS:						
Earthworks Construction						
Cut and Fill batters (max 4.5m high then generally a geotechnical report is required)	DS4.15	W417				
Land contouring/building platform formation/bulk earthworks for road alignments- in accordance with preliminary or subsequent geotechnical report and Development Code	DS4.15 DS10					
Retaining walls - show any proposed and note that any over 1.5m high or subject to surcharge require Building Consent.			Building Act			
Earthworks over 5000m3 require Regional Council consent.						
Specific evaluation of effects required for any filling of floodable areas may need approval from the Bay of Plenty Regional Council.			8.3.3(b)			
Topsoiling & Regrassing of Batters, Hydro-seeding	DS4.15.2					
Road Alignment/ Intersections/ Gradients/ Cross falls:						
Design is in accordance with concept stage safety audit - evidence provided	DS4.2.1(iv), DS4.2.4 & DS4.3.1(iv)		12.3.8 (h) & (i)			
Widths and gradients in accordance with tables	DS4.2					
Geometric Design - Code & latest versions of Austroads - evidence provided	DS4.3					

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Intersections/Roundabouts - Check ADT, Austroads standards for SISI & ESD, Gradient 0.5 -> 3% for first 10m	DS4.3.8 & 4.3.9					
Gradients & Curves	DS4.3.4 to 4.3.7					
Cul-de-sacs/Turning heads	DS4.2.5	W406				
Cycle Lanes - on carriageway	DS4.2.3					
Cycle Lanes - Shared with footpath		W446 & 449				
Pavement Construction:						
Pavement Design/Subgrade Testing	DS4.5					
Pavement depths - Flexible pavement design chart provided	DS4 - Appendix 3					
Sub-base & Basecourse Specified	DS4.6.3 & 4.6.4					
Carriageway Surfacing	DS4.6.5 to 4.6.7					
Privateways: Urban & Rural	DS4.7	W438 & W439				
Privateways: Minden Lifestyle Zones	DS4.7.3		12.4.4.4(f)			
Service Lanes	DS4.14					
Concrete works, structures and Markings:						
Kerb & Channel, concrete works - leveling course/sub soil drains	DS4.8	W422 to W426				
Footpath Construction	DS4.9					
Guardrails	DS4.10 & 4.16.3					
Pavement marking & signage	DS4.4					
Vehicle Entrances						
Compliance with sight distances		W415				
Design to Code standards	DS4.6.8 & 4.6.9	W435, 436 & 437				

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Check entrances required by Consent Conditions						
Existing vehicle entrances reinstated						
Consents of affected landowners (existing entrances)						
Stormwater Drainage						
Formation of table drains, scour protection		W417				
Bridges & culverts (also see separate section below for Bridges)	DS4.16 & 5.5.2					
Culvert markers required		W464				
Stormwater reticulation - hydraulic design, flow rates, M.H, pipe sizes, drop structures & outlet protection	DS4.8 DS5					
Discharge to Council reticulation - existing reticulation capacity check			12.4.1(g) 12.4.3.1			
Construction Loads	DS5.2.6					
Carriageway bedding and backfill		W419				
Rural stormwater reticulation			12.4.5.4			
Alternative overland flow-paths - show on drawings	DS5.1.2					
Easements required?	DS4.8.3(v) DS5.10 & DS5.1.2(overland flow)		12.4.3.4			
Stormwater Discharge Consents - private land	DS5.1.5					
Regional Council consent required?	DS5.1.5					
Sumps (Catchpits)- spacings, double sumps	DS4.8.3 & 5.5.2	W427 to 430				
Double sump required - end of cul-de-sac, gradients greater than 12%, sag curves	DS4.8.3(i)					
Manholes - location, spacing etc.	DS5.2.1(iv) & 5.2.4	W501 to 516				
Scour blocks for pipe grades 15 - 35% Specific design for >35%	DS5.2.6	W644				

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Inlet/Outlet structures	DS5.5.1	W524				
Aluminum & galvanized culvert - corrosion protection details required						
Property connections	DS5.4.1	W531 to W544				
Detention / Treatment Ponds	DS5.6					
Open water courses	DS5.2.7					
Sanitary Sewer						
Sewer hydraulic design, pipe size, grades, min covers	DS6.1					
Min gradients	DS6.1.4					
Discharge into Council sewer - check existing sewer capacity.	DS6.1(iii)		12.4.1(g) 12.4.3.1			
Septic tanks (usually not permitted in urban areas)			12.3.8(l), 12.4.6.3 & 12.4.6.5			
Carriageways - Minimum cover 900mm or manufacturers certification required	DS6.2.6					
Private property min 600mm max 3m or specific design required.	DS6.2.6					
Carriageways and Road reserves - 8.2t axle load.	DS6.2.6					
Construction loads on the whole site should also be accounted for as stormwater.						
Carriageway bedding and backfill		W419				
Identify any lots where gravity sewer connection is not possible						
Scour blocks for pipe grades 15 - 35% Specific design for >35%	DS6.2.7	W644				
Service connections	DS6.3.2 to 6.3.6	W630 to 643				
Note: connections under a road minimum diameter 150mm. Specific	DS6.2.1 Table 6.6	W419				

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backfill required under carriageways						
Rodding Eyes required.	DS6.4.13	W620, 621& 637 to 641				
Min lateral grade 1.67% or 1 in 60		W630				
Manholes - location, spacing etc. Note: Terminal MH required at end of public main	DS6.4	W601 to 616				
Wastewater Pumping Stations	DS6.5 & 6.6	W1101 to 1124				
Easements	DS6.1(vi) & DS6.3.4(iii)		12.4.3.4			
Watermain						
Reticulation design and layout incl firefighting where applicable (usually not in rural zones)	DS7					
Connection to Council reticulation - capacity checks	DS7.4.1(ii)					
Fire hydrant locations: max spacing: - 135m Residential - 90m Commercial	DS7.7.1	W713, 714 & 715				
Fire hydrant pressure	DS7.2					
Valve locations	DS7.8.4	W716 to 721				
Pressure zone dividing valves	DS7.8.5					
Alignment & separation from other services	DS7.4.3 & 7.4.4	W900				
Pipe depths	DS7.4.5					
Rider mains	DS7.5.3 & 7.6	W706				
Lot connections	DS7.10	W727 to 740				
Note: Urban - live connections required						
Rural - dry connections unless otherwise required						

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Rural supply - level of service	DS7.2					
-Ridermains in Privateways (> 3 Rural or > 6 Urban lots served)	DS7.10.1					
Anchor/thrust blocks	DS7.9					
Easements	DS7.3 & 7.7.1(vi)		12.4.3.4			
Power, Telecom & Gas						
Letters are required from relevant authorities to confirm that existing reticulation of adequate capacity is available.			12.3.8(n) & 12.4.8			
Identify if any relocation of existing poles or tie rods is required.						
Street Lighting						
Design in accordance with Code. Drawings, calculations etc. required from specialized professionals.	DS8					
Separation to face of kerb 600mm min.	DS8.2.2	W900				
Standard Columns and Lanterns	DS8.3 & Construction section AP8 Streetlighting materials					
Columns require a mowing strip		W802				
Non-standard lights may require a peer review at the applicant's cost.	DS8.3.1					
Non-standard lights may attract a levy payable by the applicant			12.4.4.5			
Landscaping - Streetscape						
Layout in accordance with Code	DS2	W201 to 207 & W900				

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Tree/plant species in accordance with Code and approved list	DS2.4 & Appendix 1(refer to construction section-approved products and materials- AP2 & 3					
Relocating Services						
Ensure that arrangement with the relevant companies has been made.						
Power Supply						
Telecom						
Gas						
Bridge Design	DS4.16					
Regional Council approval required						
Building Consent required						
Box culverts and culverts over 1m diameter subject to building consent.						
TNZ Bridge Manual						
Design to be certified by a CPENG						
Existing bridges on privateways - CPENG report required						
Private bridges - design loading 0.85 of HN-72						
Scour protection to abutments						
Appropriate signage required for max axle loadings						