

## DISTRICT-WIDE MATTERS

# SUB – Subdivision

## All Zones

One of *Council's* functions under *the Act* is control of subdivision. The purpose of this is to limit any adverse *effects* of subdivision on the environment and to sustainably manage resources, particularly the land and soil resources.

The definition of subdivision includes cross-leases, company leases and unit titles. This means that such subdivisions are subject to exactly the same rules and potential consent conditions as “ordinary” fee simple subdivisions. Any leases of parts of a block of land for longer than 20 years also qualify as subdivisions. Partitions of *Māori land* do not, however, need subdivision consent if the new land parcels are to be held by members of the same hapu.

### **Effects Of Subdivision**

Subdivision is regarded as an “activity” under *the Act*, much the same as land use activities like *building* a factory. Subdivision only permits a new allotment to be held in separate permanent ownership as opposed to short-term rent or lease. There are relatively few direct effects which arise from separate ownership. Examples include the need for new separate accesses to the *road* and separate utility services.

The indirect *effects* of subdivision can however be important. The new owner will usually (but not always) expect to build a *dwelling* or *buildings* on the new section. These new *buildings* will have their own *effects* upon the landscape, upon neighbours and upon effluent disposal in the locality. Subdivision of residential sections is the first step in urban growth, and the *effects* of that growth must therefore be taken into account at the subdivision stage. This plan will therefore require the *effects* of future dwellings on the new lots to be considered when a subdivision is applied for. Similarly *Council* will need to be satisfied that General Industrial, Commercial, Mixed Use or Town Centre *zone* allotments can be reasonably used for *permitted activities*.

The cumulative *effects* of subdivision must also be taken into account. Subdivision of one residential allotment along a main traffic route would have little impact, but ribbon development of several sections and vehicle crossings may well be of concern.

Subdivision policies affect land values. If there is a shortage of particular types of blocks, inflated prices may result. A property’s potential for subdivision may also raise its value (and rates) thereby influencing the owner to subdivide it. One way to minimise value anomalies is to give all

landowners an equal opportunity to subdivide. This is not possible, however, if the Plan is to meet *the Act's* aims. Varying opportunities will for example result from this Plan's policy of treating subdivision of versatile land differently to other land.

Subdivision can sometimes have significant benefits. As much individual freedom as possible should be permitted, within *the Act's* duties to manage adverse *effects* and to consider sustainability of the land resource. The potential adverse impacts are addressed by the objectives below.

## Maewa (Growth Precinct 4)

Subdivision and subsequent land development often involves land disturbance, vegetation removal, and changes to the natural and physical environment. Subdivision is a process that enables future land use activities to establish that may not otherwise be allowed in some areas, such as additional *residential units* in urban or rural areas. Once subdivision has occurred, certain expectations for the use and development of that land often become apparent.

The *effects* of subdivision include:

1. Changing ground levels that alter run-off patterns and natural hazards
2. *Effects* on existing natural hazards
3. Additional demands on capacity of *essential infrastructure* (network infrastructure), existing private services and physical construction
4. *Effects* on natural character, natural resources, water quality
5. *Effects* on cultural and heritage *sites*, Tangata Whenua values
6. *Effects* on existing character and *amenity values*
7. Loss of productive land
8. *Effects* on the safe and efficient functioning of the roading network, including additional vehicle accesses, traffic flows and patterns, *road* safety and the efficient movement of traffic.

Section 11 of *the Act* was amended in 2017 so that subdivision is now permitted unless expressly restricted by rules in the District Plan or a national environmental standard. This is consistent with the presumption that land use is permitted, unless restricted under Section 9 of *the Act*.

This chapter should be read along with the relevant zoning provisions in Infrastructure, Transport, Noise, Earthworks, Signs, Temporary Activities, Relocated Buildings, Boarding Kennels, and the provisions in the GRZ – General Residential Zone.

The *Council's* Engineering Standards should also be referred to when considering subdivision of land within the District.

The rules in this subdivision chapter are divided into two main sections:

- Subdivision and development provisions for zones other than *Maewa (Growth Precinct 4)*, and
- Subdivision and development provisions for *Maewa (Growth Precinct 4)*.

## Issues

### All Zones

GEN-13, GEN-14, GEN-16, GEN-17, GEN-18, GEN-111

### Issues – Maewa (Growth Precinct 4)

<b>SUB-MAE-I1</b>	Limitations on growth in Feilding and other centres in the District due to natural hazards, topography and natural and physical features, effluent disposal and infrastructure provision.
<b>SUB-MAE-I2</b>	Recognition of natural hazards in the design and implementation of subdivisions, including subsequent land use.
<b>SUB-MAE-I3</b>	The need to restrict unplanned urban expansion into rural areas which affects rural productivity, amenity, character, the natural environment and resulting land uses.
<b>SUB-MAE-I4</b>	The need to control Feilding's growth, while providing for a variety of lot sizes for residential.
<b>SUB-MAE-I5</b>	Uncoordinated and inefficient provision of infrastructure and the <i>effects</i> on urban form when development is unplanned.
<b>SUB-MAE-I6</b>	The need to provide sufficient residentially zoned land to provide for future growth projections.

<b>SUB-MAE-17</b>	The need for new developments within <i>Maewa (Growth Precinct 4)</i> to be in accordance with any relevant structure plan and be appropriately staged to ensure the integrated provision of infrastructure at the earliest stage of development.
<b>SUB-MAE-18</b>	The need for connectivity between staged developments and surrounding residentially zoned land.
<b>SUB-MAE-19</b>	The transition of land between existing rural use and future residential use following changes in zoning and creation of new <i>reverse sensitivity</i> issues while the area is developed in the future.

## Objectives

### Objectives - All Zones Except Maewa (Growth Precinct 4)

<b>SUB-O1</b>	<p><b>Impact upon rural soils</b></p> <p>To protect the life-supporting capacity of the District’s rural soils, particularly the versatile land, and to maintain the opportunity for them to be used for a wide range of options in the future. (Refer also: GRUZ-O1)</p>
<b>SUB-O2</b>	<p><b>Rural separation distances</b></p> <p>To have rural allotments which allow satisfactory separation between dwellings and neighbouring activities. (Refer also: GRUZ-O3, GRUZ-O4).</p>
<b>SUB-O3</b>	<p><b>Landscape appearance and character</b></p> <p>To maintain a distinct difference in landscape appearance and character between urban and rural areas. (Refer also: GRUZ-O2, GRZ-O1, SETZ-O2)</p>
<b>SUB-O4</b>	<p><b>Water supply, stormwater, and farm drainage</b></p> <p>To avoid the potential <i>effects</i> of unserviced subdivision upon the District’s residents by ensuring that water supply, stormwater disposal and farm drainage needs are taken into account. (Refer also: FIN-O1, EWA-O3)</p>

SUB-05	<p><b>Domestic effluent disposal</b></p> <p>To ensure that domestic effluent from new allotments can be adequately disposed of without creating water quality or odour and health problems. (Refer also: EWA-03).</p>	
SUB-06	<p><b>Natural Hazards</b></p> <p>To ensure that the potential risk to future <i>buildings</i> from natural hazards is considered for each new allotment. (Refer also: NH-01, NH-02).</p>	
SUB-07	<p><b>Traffic safety and efficiency</b></p> <p>To ensure that new driveways or roads resulting from subdivision do not unduly detract from traffic safety and efficiency. (GEN-I4 and GEN-I12) (Refer also: SUB-08).</p>	
SUB-08	<p><b>Urban growth</b></p> <p>To provide for urban growth that adjoins existing <i>urban areas</i> and manage that growth to avoid, remedy or mitigate adverse <i>effects</i> through the design of safe, integrated infrastructure networks and the efficient use and development of land. (Refer also: GRUZ-01, SUB-01, NH-01, NH-02, INF-01, INF-02).</p>	
SUB-09	<p><b>Urban Neighbourhoods</b></p> <p>To develop useful, attractive and sustainable urban neighbourhoods where (Refer also HH-01, GRUZ-01, GRZ-02, EWA-05, INF-01, INF-02):</p>	
	SUB-09.1	A range of lot sizes and housing types can be developed, in accordance with the existing character and context of each area.
	SUB-09.2	People have maximum accessibility to each other using vehicular and non-vehicular (pedestrian and cycling) transport networks to neighbourhood centres and reserves which provide for their needs.
	SUB-09.3	Public health and safety is promoted through good design of local streets, neighbourhood centres and reserves to ensure easy access and connectivity.
	SUB-09.4	Development is not achieved at the expense of significant adverse <i>effects</i> on rural character that is the backdrop to the Feilding township, the <i>National Grid</i> , natural topography, open space and gully systems.

	<b>SUB-O9.5</b>	New <i>urban areas</i> establish an identity that is based on positive elements of Feilding’s established urban character and amenity, and recognise and maintain the ecological, cultural and historic heritage values of the <i>site</i> and surrounding area.
	<b>SUB-O9.6</b>	Urban land is developed and used effectively ensuring larger residential lots retain the potential for planned and well-designed intensification.
	<b>SUB-O9.7</b>	Utility services are strategically developed to ensure a sustainable, efficient and cost effective network is built to meet the needs of current and future development.
	<b>SUB-O9.8</b>	Public safety is maintained through good subdivision design that avoids or mitigates identified natural hazards.
<b>SUB-O10</b>	<b>Urban Allotments</b>	
	To create urban lots that have a size and shape that enables urban use.	
<b>SUB-O11</b>	<b>Fragmentation Of Natural Areas and River Channels</b>	
	To avoid adverse <i>effects</i> on the natural values of streams, lakes, wetlands, the coastal area and <i>indigenous forest</i> areas arising from fragmentation of land ownership. (Refer also: HH-O1, HH-O5, ER-O4, EWA-O3)	

## Objectives – Maewa (Growth Precinct 4)

<b>SUB-MAE-O1</b>	The following urban design outcomes are achieved for <i>Growth Precinct 4</i> :	
	<b>SUB-MAE-O1.1</b>	A well-integrated and coordinated development that creates strong connectivity between new and existing development.
	<b>SUB-MAE-O1.2</b>	Connectivity with existing infrastructure and transportation networks is achieved.
	<b>SUB-MAE-O1.3</b>	Subdivision design that recognises and responds to the topographical and physical features of the land, including waterbodies.
	<b>SUB-MAE-O1.4</b>	A range of residential densities.

	<b>SUB-MAE-O1.5</b>	Efficient utility services are provided including roading, reticulated wastewater, water supply, stormwater networks and power and <i>telecommunication</i> networks.
	<b>SUB-MAE-O1.6</b>	Neighbourhood focal points which provide meeting points within the precinct.
	<b>SUB-MAE-O1.7</b>	Open space networks that comprise stormwater attenuation networks, a range of recreation opportunities and stream side esplanade reserves all designed in consultation with tangata whenua so that ancestral connections to that water body and its margins are appropriately recognised and provided for.
	<b>SUB-MAE-O1.8</b>	Areas identified as high risk for flooding hazards and stormwater inundation hazards are avoided or managed to minimise the risk of damage to property or human life.
<b>SUB-MAE-O2</b>	An attractive and sustainable urban neighbourhood is achieved for <i>Maewa (Growth Precinct 4)</i> .	
<b>SUB-MAE-O3</b>	In the development of <i>Maewa (Growth Precinct 4)</i> the potential risk to people and <i>buildings</i> from natural hazards and stormwater inundation is managed.	
<b>SUB-MAE-O4</b>	A comprehensive spatial layout and an efficient and well integrated infrastructure network is delivered for <i>Maewa (Growth Precinct 4)</i> .	

## Policies

### Policies - All Zones Except Maewa (Growth Precinct 4)

#### Impact upon rural soils

<b>SUB-P1</b>	To ensure that the life-supporting capacity of the District’s rural soils, and future options for the use of that soil, are not compromised by the <i>effects</i> of subdivision and subsequent development, including soil compaction, contamination and removal, and fragmentation of ownership.
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<b>SUB-P2</b>	To minimise the amount of versatile land which is converted to urban use. (Refer also: SUB-P24)
<b>Rural separation distances</b>	
<b>SUB-P3</b>	To establish separation distances which are sufficient to mitigate any adverse environmental <i>effects</i> of rural and domestic activities and rural industries (such as noise, dust or odour nuisances) upon nearby <i>residential activities</i> .
<b>SUB-P4</b>	To seek a realistic level of amenity for rural residents, given the potential for adverse environmental <i>effects</i> from the types of activities that are found in the <i>zone</i> . (Refer: GRUZ-O2, GRUZ-P6 to GRUZ-P10, GRUZ-O3, GRUZ-O4, and GRUZ-P11 to GRUZ-P17)
<b>Landscape appearance and character</b>	
<b>SUB-P5</b>	To ensure that any adverse <i>effects</i> of rural subdivision upon the existing character and amenities of the General Rural <i>zones</i> are avoided, remedied or mitigated.
<b>SUB-P6</b>	To enable some small-lot subdivision (i.e. down to around 4000 m <sup>2</sup> in area), in identified rural and peri-urban localities which already have the character of a settlement and where such subdivision would be compatible with the amenities of the area.
<b>Water supply, stormwater, and farm drainage</b>	
<b>SUB-P7</b>	To require available water and stormwater connections for new residential allotments to be paid for as a condition of subdivision approval.
<b>SUB-P8</b>	To require rural subdividers to demonstrate:
<b>SUB-P8.1</b>	What provision if any has been made for farm drainage for new allotments.
<b>SUB-P8.2</b>	That provision has been made for water supply to new allotments.
<b>SUB-P9</b>	To preserve legal access for drainage from new allotments where appropriate, as well as practical access for drain clearance. (Refer also: ER-P12)



<b>SUB-P10</b>	To advise subdividers in rural water supply scheme areas that access to water will be at the discretion of the supply authority.
<b>SUB-P11</b>	To advise rural water supply authorities about subdivision proposals in their areas.
<b>SUB-P12</b>	To require appropriate stormwater disposal if a subdivision is for an activity which would involve large areas of impervious surfaces.

### Domestic effluent disposal

<b>SUB-P13</b>	To ensure that all new allotments in sewered areas are connected to the sewerage system.
<b>SUB-P14</b>	To require that all effluent in unsewered areas be satisfactorily disposed of within the allotment concerned, or via an approved communal effluent disposal system.
<b>SUB-P15</b>	To require that any proposed communal disposal includes permanent arrangements for future maintenance, operation and <i>replacement</i> of that system.

### Natural Hazards

<b>SUB-P16</b>	To require that each proposed allotment has at least one <i>building site</i> (including effluent disposal area and suitable vehicular access) which is not prone to natural hazards, unless <i>Council</i> is satisfied that no <i>dwelling</i> will be required on the allotment.
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### Traffic safety and efficiency

<b>SUB-P17</b>	To ensure that all new allotments have an available entrance point with satisfactory visibility.
<b>SUB-P18</b>	To implement controls which meet the need to maintain the safety and efficiency of arterial traffic routes, including the use of shared entranceways wherever possible.

<b>SUB-P19</b>	To ensure that vehicle crossings resulting from subdivisions are combined wherever possible.
<b>SUB-P20</b>	To require formation of joint driveways and entranceways to certain standards at the subdivision stage.
<b>SUB-P21</b>	To require other entranceways to be formed at the <i>building</i> consent stage.
<b>SUB-P22</b>	To ensure that legal streets are created instead of rights-of-way if warranted by the potential traffic.
<b>SUB-P23</b>	To discourage ribbon development along arterial routes.
<b>Urban growth</b>	
<b>SUB-P24</b>	Ensuring that any proposal for extension of the General Residential or Settlement zoning of the District’s existing townships takes into account:
<b>SUB-P24.1</b>	Any increased risk to people and property from natural hazards, including the possibility of sea level rise in the case of Himatangi Beach and Tangimoana.
<b>SUB-P24.2</b>	The potential impact of urban growth on the natural character, qualities and features of the coastal <i>environment</i> .
<b>SUB-P24.3</b>	Any significant and permanent adverse impact upon the life-supporting capacity of the District’s soil resource, or upon options for its future use, which would arise from converting the land concerned to urban use.
<b>SUB-P24.4</b>	The need for new growth areas around existing townships to be provided with utility services, at the developers expense, so that water supply and effluent and stormwater disposal issues and energy networks are addressed. (Refer Also: FIN-Financial Contributions chapter (Utilities section), and FIN-P8 to FIN-P13)

	<b>SUB-P24.5</b>	The efficient use and development of <i>natural and physical resources</i> , such as land, energy and the transport network, including the degree to which <i>infill</i> development is possible in the existing General Residential or Settlement <i>zone</i> .
	<b>SUB-P24.6</b>	The neighbourhood amenities and level of access to facilities which are likely to be available to residents in the new urban growth areas.
	<b>SUB-P24.7</b>	The need to avoid ribbon development along arterial routes for traffic safety and efficiency reasons.
	<b>SUB-P24.8</b>	Any significant adverse impacts upon the rural area, including its character and amenity, any significant habitats of indigenous fauna, and its intrinsic, ecological, or heritage values or cultural significance.
	<b>SUB-P24.9</b>	The presence of any existing land uses which may not be compatible with a new residential neighbourhood.
<b>SUB-P25</b>	Identifying land suitable for new urban development, and where existing infrastructure requires upgrading to provide for new urban development, defer and stage this development until the required upgrading of infrastructure has occurred.	
<b>SUB-P26</b>	Providing for subdivision and development in the <i>Growth Precincts</i> in Feilding in accordance with Structure Plans and the Subdivision Design Guide to achieve the following outcomes:	
	<b>SUB-P26.1</b>	Development is well integrated and coordinated
	<b>SUB-P26.2</b>	Development recognises and responds to the topographical and physical features of the land
	<b>SUB-P26.3</b>	Short and anticipated long term growth demands are met

<b>SUB-P26.4</b>	Good connections are made with existing infrastructure and transportation networks, taking account of the capacity limitations of these networks and any potential requirements for upgrading capacity to meet future demands
<b>SUB-P26.5</b>	Certainty is provided on the location and pattern of development, including key roading linkages and infrastructure to meet future requirements
<b>SUB-P26.6</b>	A range of residential densities are provided, including larger lots which can be intensified in the longer term
<b>SUB-P26.7</b>	A logical roading network delivers strategic <i>Collector Roads</i> between existing and future <i>urban areas</i> and a street network of <i>Local Roads</i> that provide accessible residential areas
<b>SUB-P26.8</b>	Efficient utility services are provided including reticulated waste water, water supply, stormwater networks and energy networks, that are in accordance with identified growth demands
<b>SUB-P26.9</b>	Neighbourhood focal points (such as local parks, shops or <i>community facilities</i> ) provide meeting points and centres for individual neighbourhoods within a precinct;
<b>SUB-P26.10</b>	Open space networks that comprise stormwater attenuation networks, a range of recreation opportunities, stream side esplanade reserves, and where appropriate, environmental protection corridors
<b>SUB-P26.11</b>	Areas identified as high risk for flooding and potential seismic hazards are avoided
<b>SUB-P26.12</b>	Subdivision and development is designed and located to avoid adverse <i>effects</i> on, and from, the operation, access, maintenance or upgrade of the <i>National Grid</i> .
<b>SUB-P27</b>	Preventing urban greenfield development in the rural environment outside of the identified <i>Growth Precincts</i> around Feilding, and subdivision and

	development not in accordance with the desired outcomes of the Structure Plans.
<b>Urban neighbourhoods</b>	
<b>SUB-P28</b>	Requiring subdivision designs and layouts which provide for the following:
<b>SUB-P28.1</b>	New development that is integrated with the existing environment by:
<b>SUB-P28.1.a</b>	Recognising the character and <i>amenity values</i> of any surrounding residential, rural and industrial areas.
<b>SUB-P28.1.b</b>	Defining the urban boundary and avoiding, remedying and mitigating adverse <i>reverse sensitivity effects</i> on adjoining General Rural Zone properties through buffer areas.
<b>SUB-P28.1.c</b>	Identifying natural features, open space (local purpose reserves, esplanade reserves, environmental protection areas) and land too steep for development and integrating development around these areas.
<b>SUB-P28.1.d</b>	Residential densities that reflect a range of residential opportunities, and are positioned so there is a logical extension from existing <i>urban areas</i> , as well as responding to the topography and physical features of the <i>site</i> .
<b>SUB-P28.1.e</b>	Designs which foster neighbourhood identity, using positive characteristics from established <i>urban areas</i> and also reflecting the cultural, heritage and natural values of the <i>site</i> and surrounding area.
<b>SUB-P28.1.f</b>	Identifying nationally and regionally significant infrastructure and avoiding adverse <i>effects</i> on and from that infrastructure.
<b>SUB-P28.2</b>	Flood hazard and potential seismic hazard areas are identified and the subdivision is managed so that areas of high risk are

	avoided, and all residual risk is mitigated through design of the subdivision and future development.
<b>SUB-P28.3</b>	Effective roading connections between existing, new and future development, to maximise accessibility between different <i>urban areas</i> .
<b>SUB-P28.4</b>	A network of local streets for each <i>urban area</i> which allows convenient vehicle access to individual properties, to local shops, reserves and coordinates with the <i>Collector Roads</i> to move traffic between the housing areas and town centre.
<b>SUB-P28.5</b>	<i>Road</i> design reflects the function and use of the <i>road</i> type, including provision for vehicular and non-vehicular (pedestrian and cycling) transport modes and provides an appropriate level of amenity.
<b>SUB-P28.6</b>	Through roads and streets are required rather than the use of cul-de-sacs, in order to maintain a high level of accessibility in the local street network, while recognising some topographical features may lead to the use of cul-de-sacs or accessways.
<b>SUB-P28.7</b>	Block layouts that ensure individual lots have <i>road</i> frontage, where larger residential lots have sufficient width of frontage to ensure future intensification can occur and future lots will continue to have <i>road</i> frontage.
<b>SUB-P28.8</b>	Lots are positioned to allow efficient resource use, where the access to heat and energy from solar energy is maximised, on-site stormwater collection, attenuation and discharge is provided, including, room for water tanks.
<b>SUB-P28.9</b>	Access to open space and recreation areas is provided in a way that is strategically connected to adjoining <i>urban areas</i> .
<b>SUB-P28.10</b>	Pedestrian and cycle access is provided as a network of on- <i>road</i> and offroad cycle and walk ways which contribute to the amenity and connectivity within the wider <i>urban area</i> .
<b>SUB-P28.11</b>	Ensure each neighbourhood has a focal point that provides a place for <i>community facilities</i> local reserves and local shops.

<b>SUB-P29</b>	Encouraging <i>infill</i> subdivisions, within servicing constraints, with reference to suitability of the contour of the land, and where the shape and size of the subject lot enables good quality living environments to result as described in the Subdivision Design Guide.
<b>SUB-P30</b>	For subdivisions in any of the Structure Plan <i>Growth Precincts</i> , to require subdivision designs and layouts which implement the relevant Structure Plan, the roading hierarchy and <i>road</i> type in TR - APP1 and incorporate the guiding principles of the SUB-APP5 – Subdivision Design Guide.

### Urban Allotments

<b>SUB-P31</b>	Requiring subdividers to prove that small urban allotments (i.e. under 500m <sup>2</sup> in area) have sufficient useable room to be developed under the Plan for a permitted land use, having regard to the <i>building</i> regulations and the Plan’s performance standards.
<b>SUB-P32</b>	Encouraging flexibility for future intensification of new large residential allotments (i.e. 2,000m <sup>2</sup> in area, and greater), so they can be effectively developed in the future to a standard residential density (800m <sup>2</sup> ) and with a good quality of urban environment resulting, including <i>road</i> frontage.

### Fragmentation of Natural Areas and River Channels

<b>SUB-P33</b>	To ensure that the natural values of <i>indigenous forest</i> areas, lakes, the coastal area, and significant <i>wetlands</i> , including significant habitats of indigenous fauna, are not adversely affected by fragmentation of ownership arising from subdivision.
<b>SUB-P34</b>	To recognise the potential <i>effect</i> of subdivision of riverside land upon the management and natural values of the waterway concerned.

## Policies – Maewa (Growth Precinct 4)

<b>SUB-MAE-P1</b>	Subdivision and development within <i>Maewa (Growth Precinct 4)</i> is directed by a structure plan that identifies:	
	<b>SUB-MAE-P1.1</b>	Key transportation connections.

	<b>SUB-MAE-P1.2</b>	Open Space and recreational opportunities.
	<b>SUB-MAE-P1.3</b>	Shared pathways, including cycleways and walkways.
	<b>SUB-MAE-P1.4</b>	Hazard areas.
	<b>SUB-MAE-P1.5</b>	Stormwater detention areas following overland flow paths.
<b>SUB-MAE-P2</b>	To ensure all proposed lots are designed to achieve good urban design outcomes with connected outdoor living spaces, sunlight to <i>habitable rooms</i> , and <i>onsite</i> privacy.	
<b>SUB-MAE-P3</b>	To control intensive residential subdivision and development of land.	
<b>SUB-MAE-P4</b>	To avoid fragmented patterns of subdivision and development that is inconsistent with the integrated <i>planned development</i> shown in SUB - APP1 <i>Maewa (Growth Precinct 4)</i> Structure Plan.	
<b>SUB-MAE-P5</b>	To ensure that any staged subdivision and development enables overall connectivity within and beyond <i>Maewa (Growth Precinct 4)</i> in accordance with SUB - APP1 <i>Maewa (Growth Precinct 4)</i> Structure Plan.	
<b>SUB-MAE-P6</b>	To ensure subdivision design implements the <i>Maewa (Growth Precinct 4)</i> Structure Plan in SUB - APP1.	
<b>SUB-MAE-P7</b>	To require the integration of new development with the surrounding environment, whereby lots including those to vest as roads, are positioned to create a logical extension of existing <i>urban areas</i> .	
<b>SUB-MAE-P8</b>	To require that all development is undertaken in a comprehensive manner consistent with a Comprehensive Development Plan where stages are clearly identified and connectivity is shown.	
<b>SUB-MAE-P9</b>	To ensure block layouts within the subdivision proposal have <i>road</i> frontage and rear lots are discouraged.	
<b>SUB-MAE-P10</b>	To discourage the use of cul-de-sacs to enable a high level of accessibility and connectivity in the local street network.	



SUB-MAE-P11	<p>To encourage subdivision designs which create a neighbourhood identity using positive characteristics of established areas reflecting cultural, heritage and natural values of the <i>site</i> and surrounding areas.</p> <p><b>Guidance Note:</b></p> <p>Refer also to EI-P3 which encourages all new cables and lines, including electricity distribution lines to be installed underground.</p>						
SUB-MAE-P12	<p>To manage natural hazard risk by requiring setbacks.</p>						
SUB-MAE-P13	<p>To require the mitigation of risk of stormwater inundation outside of Flood Channel <i>Zone</i> areas through subdivision design layout.</p>						
SUB-MAE-P14	<p>To manage stormwater inundation by:</p> <table border="1" data-bbox="375 835 1333 1476"> <tr> <td data-bbox="375 835 581 1003">SUB-MAE-P14.1</td> <td data-bbox="581 835 1333 1003"> <p>Ensuring adequate pervious surface is available for every residential lot in the subdivision, taking into consideration built and hard surfaces.</p> </td> </tr> <tr> <td data-bbox="375 1003 581 1245">SUB-MAE-P14.2</td> <td data-bbox="581 1003 1333 1245"> <p>Requiring <i>building</i> platforms and minimum floor levels for <i>buildings</i> to protect against flooding and stormwater inundation from a 0.5% Annual Exceedance Probability (AEP) (1:200 year) flood event other than as a result of the failure of the Reids Line Floodway.</p> </td> </tr> <tr> <td data-bbox="375 1245 581 1476">SUB-MAE-P14.3</td> <td data-bbox="581 1245 1333 1476"> <p>Requiring an integrated approach to stormwater management that recognises and utilises the capacity of existing systems and existing overland flow paths within <i>Maewa (Growth Precinct 4)</i> as identified in SUB - APP2 – Precinct 4 Overland Flow Paths.</p> </td> </tr> </table>	SUB-MAE-P14.1	<p>Ensuring adequate pervious surface is available for every residential lot in the subdivision, taking into consideration built and hard surfaces.</p>	SUB-MAE-P14.2	<p>Requiring <i>building</i> platforms and minimum floor levels for <i>buildings</i> to protect against flooding and stormwater inundation from a 0.5% Annual Exceedance Probability (AEP) (1:200 year) flood event other than as a result of the failure of the Reids Line Floodway.</p>	SUB-MAE-P14.3	<p>Requiring an integrated approach to stormwater management that recognises and utilises the capacity of existing systems and existing overland flow paths within <i>Maewa (Growth Precinct 4)</i> as identified in SUB - APP2 – Precinct 4 Overland Flow Paths.</p>
SUB-MAE-P14.1	<p>Ensuring adequate pervious surface is available for every residential lot in the subdivision, taking into consideration built and hard surfaces.</p>						
SUB-MAE-P14.2	<p>Requiring <i>building</i> platforms and minimum floor levels for <i>buildings</i> to protect against flooding and stormwater inundation from a 0.5% Annual Exceedance Probability (AEP) (1:200 year) flood event other than as a result of the failure of the Reids Line Floodway.</p>						
SUB-MAE-P14.3	<p>Requiring an integrated approach to stormwater management that recognises and utilises the capacity of existing systems and existing overland flow paths within <i>Maewa (Growth Precinct 4)</i> as identified in SUB - APP2 – Precinct 4 Overland Flow Paths.</p>						
SUB-MAE-P15	<p>To ensure that any stormwater management measures and <i>earthworks</i> are in place and approved to <i>Council's</i> engineering standards at the time of subdivision, with ongoing controls to protect the integrity of stormwater management measures of adjoining landowners.</p>						
SUB-MAE-P16	<p>To ensure that the water supply within <i>Maewa (Growth Precinct 4)</i> has sufficient capacity and pressure to meet the needs of all development including New Zealand Fire and Emergency New Zealand requirements.</p> <p><b>Guidance Note:</b></p>						

	Refer also to the New Zealand Fire Service firefighting water supplied code of practice SNZ PAS 4509:2008. This code identifies what is required for the Fire and Emergency New Zealand to have access to sufficient water during emergencies.
<b>SUB-MAE-P17</b>	To require an integrated Stormwater Management Plan to be lodged at the time of subdivision that demonstrates:
<b>SUB-MAE-P17.1</b>	How stormwater collection, attenuation and discharge is managed <i>onsite</i> to achieve <i>stormwater neutrality</i> for the proposed development at subdivision stage; and
<b>SUB-MAE-P17.2</b>	Low impact design practices to reduce stormwater runoff volumes and peak flow rates, and improve the quality of stormwater runoff is achieved; and
<b>SUB-MAE-P17.3</b>	How stormwater detention areas are maintained and managed.
<b>SUB-MAE-P18</b>	To require consent notices on titles outlining measures required to implement recommendations from any technical reports to achieve water sensitive stormwater designs within <i>Maewa (Growth Precinct 4)</i> , including requirements to maintain all measures.
<b>SUB-MAE-P19</b>	To ensure the integration of <i>essential infrastructure</i> into the existing Feilding network creating an efficient and orderly development within <i>urban areas</i> .
<b>SUB-MAE-P20</b>	To ensure that infrastructure and services to <i>Maewa (Growth Precinct 4)</i> are provided in a way that enables or facilitates future development opportunities while recognising the capacity of existing systems.
<b>SUB-MAE-P21</b>	To ensure subdivision and development contributes to and does not undermine the integrated and comprehensive spatial layout for <i>Maewa (Growth Precinct 4)</i> as identified in the Structure Plan in SUB-APP1.
<b>SUB-MAE-P22</b>	To restrict subdivision and development within <i>Maewa (Growth Precinct 4)</i> where <i>Council's essential infrastructure</i> is not in place and of sufficient capacity to service the subdivision.

**SUB-MAE-P23**

To ensure all *road* design is consistent with form, function and amenity of roads, including provision for vehicles, walking and cycling, consistent with requirements in the TR – Transport chapter.

**Guidance Note:**

Any development must also consider the requirements of the *Council* Engineering Standards when preparing the Comprehensive Development Plan.

## Rules - All Zones Except *Maewa (Growth Precinct 4)*

### Controlled Activities (CON) – All Zones Except *Maewa (Growth Precinct 4)*

#### Specifications of Activities:

<b>SUB-R1</b>	Any subdivision to adjust the position of titles or boundaries, which will not increase the number of titles concerned or the number of permitted dwellings, and which will not result in the subdivision of any “base portion” of an allotment under SUB-ST17.
<b>SUB-R2</b>	Any subdivision for utilities such as substations, transformers or pumping stations, provided that the balance of the <i>site</i> continues to comply with the provisions of this Plan, and that access to the utility is independent of the residual <i>site</i> .
<b>SUB-R3</b>	Any General Residential <i>zone</i> , Settlement <i>zone</i> , Town Centre <i>zone</i> , Mixed Use Zone, Commercial Zone, General Industrial <i>zone</i> or Open Space <i>zone</i> subdivision which meets the relevant standards SUB-ST1 to SUB-ST16, and SUB-ST28 to SUB-ST35.
<b>SUB-R4</b>	Any General Rural <i>zone</i> or Flood Channel <i>Zone</i> subdivision which meets the relevant standards set out in SUB-ST17 to SUB-ST35, and which does not

	involve land wholly or partly within the coastal area as shown on the Planning Maps.
<b>SUB-R5</b>	Any General Industrial <i>Zone</i> subdivision which meets the relevant standards SUB-ST1 to SUB-ST16, and GIZ - APP2.
<b>Reservation of Control (RC):</b>	
The matters in respect of which <i>Council</i> has reserved its control over controlled activity subdivisions are set out in SUB-RC1 to SUB-RC18.	
<b>SUB-RC1</b>	Provision of water supply and disposal of water, wastewater and stormwater, where the design and capacity of any reticulated system reflects the new and anticipated future demand and requirements.
<b>SUB-RC2</b>	The number, location and formation of vehicle crossings.
<b>SUB-RC3</b>	Provision of a connected street network, with appropriate use of street hierarchy and design type, including the width, length, drainage and formation of access.
<b>SUB-RC4</b>	The matters specified in Section 220 of <i>the Act</i> .
<b>SUB-RC5</b>	The size, shape and arrangement of allotments, in relation to <i>road</i> frontages, and location of proposed boundaries.
<b>SUB-RC6</b>	The creation of appropriate easements.
<b>SUB-RC7</b>	Payment of financial contributions including reserves contribution.
<b>SUB-RC8</b>	Providing, forming, naming and signposting new roads.
<b>SUB-RC9</b>	Preservation of existing vegetation.
<b>SUB-RC10</b>	Provision of open space including the retirement of steep land, gully systems, connections/links with other areas, esplanade reserves and strips, and local reserves.
<b>SUB-RC11</b>	Suitability of proposed allotments for subsequent <i>buildings</i> and future use, including the separation of proposed <i>building sites</i> from high voltage electricity transmission lines.

<b>SUB-RC12</b>	Impact of subdivision upon future management of <i>natural areas</i> , heritage places and items listed in HH-SCHED1, HH-SCHED2 and TREE-SCHED1. [PCH(a), PCH(b)]
<b>SUB-RC13</b>	Requiring a consent notice to be placed on the titles of newly-subdivided allotments which have no further subdivision potential under this Plan, to alert potential purchasers to that fact.
<b>SUB-RC14</b>	Accordance with any relevant Structure Plan and adherence to the principles set out in the Subdivision Design Guide (SUB-APP5).
<b>SUB-RC15</b>	Provision of a network of cycleways and walkways to the extent that these service the subdivision and connect with the surrounding environment.
<b>SUB-RC16</b>	Provision of buffers or other measure to delineate the boundary between urban and rural environments and provide separation between potentially incompatible activities.
<b>SUB-RC17</b>	The extent to which connections to electricity, gas and <i>telecommunication</i> networks are available to service the needs of the development and/or subdivision.
<b>SUB-RC18</b>	Avoidance or mitigation of flood hazards, including the assessment of the level of flood hazard risk from the waterbody and what mitigation measures are required, such as setback distances, minimum floor levels or specified <i>building</i> platforms.

## Restricted Discretionary Activities (RDIS) - All Zones Except *Maewa (Growth Precinct 4)*

### Specification of Activities:

<b>SUB-R6</b>	Any General Rural <i>Zone</i> or Flood Channel <i>Zone</i> subdivision which does not meet SUB-ST24 by virtue of a failure to comply with GRUZ-ST4, but which does not involve a greater number of allotments than would be permitted by the latter rule and the average lot size controls in SUB-ST7 to SUB-ST27.
<b>SUB-R7</b>	Any other General Rural <i>zone</i> or Flood Channel <i>Zone</i> subdivision which meets the average lot size controls in SUB-ST7 to SUB-ST27, but which does not meet one or more of the other standards in that Rule.

<b>SUB-R8</b>	Any subdivision to provide separate titles for two or more dwellings which existed on a single title on 1 August 1998, if none of the dwellings concerned were built for dependent relatives or as granny flats under any previous District Plan.
<b>SUB-R9</b>	Any subdivision of land which provides a <i>building site</i> within 20m either side of the centre point of a high voltage (110kV or higher) transmission line, except that this rule will not apply to any subdivision where SUB-R12 applies.
<b>SUB-R10</b>	Any subdivision within a <i>Growth Precinct</i> (SUB-APP3 or GIZ - APP2) that does not comply with the <i>stormwater neutrality</i> standard in SUB-ST5 or SUB-ST16.
<b>SUB-R11</b>	Any subdivision within a <i>Growth Precinct</i> (SUB-APP3 or GIZ - APP2) that does not comply with the wastewater disposal standard in SUB-ST7 or SUB-ST31.
<b>SUB-R12</b>	Any subdivision of land within the <i>National Grid Corridor</i> that is also within <i>Growth Precinct 1</i> (SUB-APP3) and that complies with the standard in SUB-ST6.
<b>Matters of Discretion (MD):</b>	
<i>Restricted discretionary activities</i> shall be assessed in terms of the matters in SUB-MD1 to SUB-MD5.	
<b>SUB-MD1</b>	In assessing applications for <i>restricted discretionary activities</i> Council has reserved its control over matters related to the <i>effect</i> of allowing non-compliance with the particular performance standard (or standards) which the proposal has failed to meet. Conditions may be imposed to avoid, remedy or mitigate the <i>effects</i> of non-compliance.
<b>SUB-MD2</b>	In assessing applications which have become <i>restricted discretionary activities</i> due to non-compliance with the Plan's performance standards, but which otherwise would have been <i>controlled activities</i> , Council has also reserved its control over the matters in SUB-RC1 to SUB-RC18 which relate to that type of <i>controlled activity</i> .
<b>SUB-MD3</b>	In relation to subdivisions to provide separate titles for two or more rural dwellings which existed on a single title on 1 August 1998 (SUB-R9 to SUB-R15) the degree to which the subdivision will produce individual house <i>sites</i> which:
<b>SUB-MD3.1</b>	Have an adequate separation distance from each other and from nearby rural activities, and

	<b>SUB-MD3.2</b>	Can provide for adequate disposal of domestic effluent and stormwater.
<b>SUB-MD4</b>	Where it is proposed to subdivide land to create new allotments within the <i>National Grid Corridor</i> or within an area measured 20 metres either side of the centre point of a high voltage (110kV or higher) transmission line, the subdivision design should have particular regard to the following matters:	
	<b>SUB-MD4.1</b>	The extent to which the subdivision design mitigates the <i>effects</i> of the lines through the location of roads and reserves under the route of the line: and
	<b>SUB-MD4.2</b>	The ability for continued maintenance and inspections of transmission lines; and
	<b>SUB-MD4.3</b>	The minimisation of risk or injury and/or property damage from such lines; and
	<b>SUB-MD4.4</b>	The extent to which potential adverse visual <i>effects</i> are mitigated through the location of <i>building</i> platforms; and
	<b>SUB-MD4.5</b>	The outcome of any consultation with the affected utility operator; and
	<b>SUB-MD4.6</b>	The extent to which any <i>earthworks</i> and the construction of any subsequent <i>buildings</i> will comply with the NZ Electrical Code of Practice for Electrical Safe Distances (NZECP34:2001); and
	<b>SUB-MD4.7</b>	The nature and location of any proposed vegetation to be planted in the vicinity of transmission lines
<b>SUB-MD5</b>	In assessing applications for subdivisions within any of the <i>Growth Precincts</i> or the Kawakawa Road Industrial Park Growth Area that do not comply with the stormwater neutrality standard (SUB-ST5 or SUB-ST16) Council has restricted its discretion to:	
	<b>SUB-MD5.1</b>	The extent of post development run-off generated by the development;
	<b>SUB-MD5.2</b>	The measures used to avoid, remedy and mitigate stormwater runoff from entering the overall Feilding stormwater network;

**SUB-MD5.3**

The availability of stormwater detention areas or conveyance opportunities on surrounding land.

## Discretionary Activities (DIS) - All Zones Except *Maewa (Growth Precinct 4)*

### Specifications of Activities:

<b>SUB-R13</b>	Any otherwise non-complying subdivision in the General Rural <i>zone</i> or Flood Channel <i>Zone</i> , if as a result of the subdivision an area of <i>indigenous forest</i> or a substantial archaeological <i>site</i> is to be protected by covenant or other legal means (Refer HH-APP3).
<b>SUB-R14</b>	Any General Rural <i>zone</i> or Flood Channel <i>Zone</i> subdivision which does not meet the controls in SUB-ST7 to SUB-ST27, on land within a <i>nodal area</i> , but only if the allotments being created do not have frontage to an arterial route (TR-APP1).
<b>SUB-R15</b>	Any subdivision of General Rural <i>zone</i> or Flood Channel <i>Zone</i> land wholly or partly within the coastal area as shown on the Planning Maps.
<b>SUB-R16</b>	Any subdivision within the Stadium <i>Zone</i> .
<b>SUB-R17</b>	Any subdivision within the Special Development <i>Zone</i> .
<b>SUB-R18</b>	Any subdivision within a <i>Growth Precinct</i> (SUB-APP3) that does not comply with the minimum lot sizes and/or minimum lot frontage standard in SUB-ST1.
<b>SUB-R19</b>	Any subdivision within a <i>Growth Precinct</i> that is not in accordance with the requirements specified in a relevant Structure Plan (SUB-APP3 and GIZ - APP2).
<b>SUB-R20</b>	Any subdivision within a <i>Growth Precinct</i> (SUB-APP3) that does not comply with the flood hazard standards in SUB-ST8.

### Assessment Criteria

The criteria set out in GEN-AC1 to GEN-AC25 (particularly GEN-AC13, GEN-AC22, or GEN-AC23), will be taken into account in assessing the *discretionary activities* SUB-R13 to SUB-R20.



## Non-complying Activities (NC) - All Zones Except *Maewa (Growth Precinct 4)*

The following subdivisions shall be non-complying activities:

<b>SUB-R21</b>	Any subdivision of land within the <i>National Grid Corridor</i> that is also within <i>Growth Precinct 1 (SUB-APP3)</i> that does not comply with the standard in SUB-ST6.
<b>SUB-R22</b>	Any activity which is not categorised by this chapter as being a <i>permitted, controlled, restricted discretionary, discretionary, or prohibited activity</i> shall be a <i>non-complying activity</i> .

### Guidance Note:

#### Power to decline subdivisions

Even if a subdivision complies with the above rules, *Council* may decline consent under Section 106 of *the Act*. (Refer SUB-O6 and SUB-P16).

## Standards – All Zones Except *Maewa (Growth Precinct 4)*

### Standards – General Residential Zone

#### Greenfields subdivisions

<b>SUB-ST1</b>	<p>Any subdivision shall comply with the relevant minimum lot size and frontage widths as set out in Table 3 below for the existing General Residential Zone and areas shown within the <i>Growth Precincts</i>:</p> <table border="1" data-bbox="394 323 1240 695"> <thead> <tr> <th data-bbox="394 323 678 428"><b>Area</b></th> <th data-bbox="678 323 959 428"><b>Minimum Lot Size (Net Site Area)</b></th> <th data-bbox="959 323 1240 428"><b>Minimum Footage Width for each lot</b></th> </tr> </thead> <tbody> <tr> <td data-bbox="394 428 678 489">Existing Residential</td> <td data-bbox="678 428 959 489">500m<sup>2</sup></td> <td data-bbox="959 428 1240 489">-</td> </tr> <tr> <td data-bbox="394 489 678 590"><i>Growth Precinct</i> – Density 1</td> <td data-bbox="678 489 959 590">2000m<sup>2</sup></td> <td data-bbox="959 489 1240 590">40.0m</td> </tr> <tr> <td data-bbox="394 590 678 695"><i>Growth Precinct</i> – Density 2</td> <td data-bbox="678 590 959 695">800m<sup>2</sup></td> <td data-bbox="959 590 1240 695">25.0m</td> </tr> </tbody> </table> <p data-bbox="394 709 781 737">Table 3 Minimum Lot Size and Frontage</p>		<b>Area</b>	<b>Minimum Lot Size (Net Site Area)</b>	<b>Minimum Footage Width for each lot</b>	Existing Residential	500m <sup>2</sup>	-	<i>Growth Precinct</i> – Density 1	2000m <sup>2</sup>	40.0m	<i>Growth Precinct</i> – Density 2	800m <sup>2</sup>	25.0m
<b>Area</b>	<b>Minimum Lot Size (Net Site Area)</b>	<b>Minimum Footage Width for each lot</b>												
Existing Residential	500m <sup>2</sup>	-												
<i>Growth Precinct</i> – Density 1	2000m <sup>2</sup>	40.0m												
<i>Growth Precinct</i> – Density 2	800m <sup>2</sup>	25.0m												
<b>SUB-ST2</b>	<p>Access and roading design and construction shall comply with the standards contained within NZS 4404:2010 Land Development. Where common access to six or more allotments is to be provided, this access must be a new legal <i>road</i>, to be formed to <i>Council</i> standards.</p>													
<b>SUB-ST3</b>	<p>Shape factor - each <i>site</i> shall be capable of containing an 18m diameter circle.</p>													
<b>SUB-ST4</b>	<p>Any subdivision proposals shall be designed in accordance with the requirements specified in the relevant Structure Plan (SUB-APP3).</p>													
<b>SUB-ST5</b>	<p>Any subdivision shall include a stormwater system design that achieves <i>stormwater neutrality</i> at the following scales:</p> <table border="1" data-bbox="378 1276 1331 1493"> <tr> <td data-bbox="378 1276 581 1388"><b>SUB-ST5.1</b></td> <td data-bbox="581 1276 1331 1388">Over the area of land that is the subject of the subdivision proposal.</td> </tr> <tr> <td data-bbox="378 1388 581 1493"><b>SUB-ST5.2</b></td> <td data-bbox="581 1388 1331 1493">Over the <i>Growth Precinct</i> in which the subdivision proposal is located.</td> </tr> </table>		<b>SUB-ST5.1</b>	Over the area of land that is the subject of the subdivision proposal.	<b>SUB-ST5.2</b>	Over the <i>Growth Precinct</i> in which the subdivision proposal is located.								
<b>SUB-ST5.1</b>	Over the area of land that is the subject of the subdivision proposal.													
<b>SUB-ST5.2</b>	Over the <i>Growth Precinct</i> in which the subdivision proposal is located.													
<b>SUB-ST6</b>	<p>Any subdivision of land within the <i>National Grid Corridor</i> shall identify a <i>building platform</i> to be located outside the <i>National Grid Yard</i>.</p>													
<b>SUB-ST7</b>	<p>Any subdivision that includes a lot smaller than 5,000m<sup>2</sup> must be connected to reticulated wastewater services.</p>													
<b>SUB-ST8</b>	<p>Any subdivision containing a waterbody shall include:</p> <table border="1" data-bbox="378 1801 1331 1881"> <tr> <td data-bbox="378 1801 581 1881"><b>SUB-ST8.1</b></td> <td data-bbox="581 1801 1331 1881">Consideration and assessment of flood hazard <i>effects</i>; and</td> </tr> </table>		<b>SUB-ST8.1</b>	Consideration and assessment of flood hazard <i>effects</i> ; and										
<b>SUB-ST8.1</b>	Consideration and assessment of flood hazard <i>effects</i> ; and													

	<b>SUB-ST8.2</b>	Measures to ensure that <i>effects</i> of flooding from the waterbody area avoided or mitigated.
<p><b>Infill subdivision</b></p> <p>NB:</p> <p>1. An application for land use consent will be needed for development of <i>sites</i> under 350m<sup>2</sup> (Refer GRZ-R14 to GRZ-R19).</p> <p>2. Overall development plans of the proposed new and any existing development must accompany <i>infill</i> subdivision proposals. (Refer: Subdivision Consent Applications in the GEN-General Approach chapter).</p>		
<b>SUB-ST9</b>	<i>Infill</i> subdivision proposals which do not comply with the minimum lot size, or shape factor rules above shall demonstrate that:	
	<b>SUB-ST9.1</b>	The <i>site</i> can accommodate the proposed new and any existing development in compliance with the standards in GRZ-ST1 to GRZ-ST35.
	<b>SUB-ST9.2</b>	The proposed <i>sites</i> can be satisfactorily serviced.
<b>SUB-ST10</b>	<i>Infill</i> subdivision proposals shall comply with SUB-ST2 above.	

## Standards – Settlement Zone

Refer SUB-O3 to SUB-O11, and SUB-P5 to SUB-P34

<b>SUB-ST11</b>	<b>Minimum <i>site</i> area</b>	
	<b>SUB-ST11.1</b>	Sewered: 500m <sup>2</sup> <i>net site area</i>
	<b>SUB-ST11.2</b>	Unsewered: 800m <sup>2</sup> <i>net site area</i>
	<b>SUB-ST11.3</b>	Rongotea South Development Area A: 500m <sup>2</sup>
	<b>SUB-ST11.4</b>	Rongotea South Development Area B: 750 – 1000m <sup>2</sup>

	<b>SUB-ST11.5</b>	Rongotea South Development Area C: 1500m <sup>2</sup>
<b>SUB-ST12</b>		Any <i>entrance strip</i> which provides legal access to a rear <i>site</i> shall have a minimum width of:
	<b>SUB-ST12.1</b>	3m where the number of <i>sites</i> is not greater than four. If visibility is restricted along the <i>entrance strip</i> , spaces visible from one to another shall be provided to enable vehicles to pass.
	<b>SUB-ST12.2</b>	6m where the number of <i>sites</i> is greater than four. This width may be reduced to 3m if the <i>entrance strip</i> includes space for vehicles to pass, such spaces being visible from one to another.
<b>SUB-ST13</b>		Where common access to eight or more residential allotments is to be provided, this access must be a new legal <i>road</i> , to be formed to <i>Council's</i> standards.

## Standards – Town Centre, Mixed Use, Commercial, General Industrial, Open Space, Stadium and Special Development Zones

Refer SUB-O3 to SUB-O11, and SUB-P5 to SUB-P34

<b>SUB-ST14</b>	<b>Suitability Of Lots</b>
	The applicant must demonstrate that all new allotments can be used for a permitted activity in a manner that conforms to this Plan. Development plans for the land being subdivided may be required, to prove compliance with the Plan's standards.
<b>SUB-ST15</b>	<b>Access To Rear Sites</b>
	Any <i>entrance strips</i> to rear <i>sites</i> shall be wide enough for heavy vehicle access.

SUB-ST16	<b>Stormwater Neutrality (General Industrial Zone only)</b>	
	Every subdivision must include a stormwater system designed to achieve <i>stormwater neutrality</i> , appropriate for the activities, use and development of the <i>site</i> , including any connection to <i>Council</i> network infrastructure, at the following scales:	
	SUB-ST16.1	Over the area of land that is the subject of the subdivision proposal; and
SUB-ST16.2	Over the <i>Growth Precinct</i> in which the subdivision proposal is located.	

## Standards – General Rural Zones and Flood Channel Zones

(Refer SUB-O1 to SUB-O7, SUB-O11, SUB-P1 to SUB-P23, SUB-P33, SUB-P34)

SUB-ST17	<b>Average lot size rule - General</b>	
	SUB-ST17.1	The maximum number of additional allotments which may be created by subdivision of any title shall not exceed the subdivision entitlement (SE) or remaining entitlement (RE) calculated in accordance with SUB-ST18 to SUB-ST19.
	SUB-ST17.2	If the subdivision entitlement (SE) or remaining entitlement (RE) calculated for any title is less than one, no subdivision of that title shall be permitted. Fractions shall be disregarded.
	SUB-ST17.3	Any land which comprises the “base portion” of the title concerned, as determined under SUB-ST56 below, shall not at any time be subdivided further.
	SUB-ST17.4	If the land being subdivided includes more than one title, or involves a title which is zoned partly <i>General Rural Zone – Specific Control Area</i> and partly <i>General Rural Zone</i> , the subdivision entitlement or remaining entitlement for that land shall be calculated by adding together the entitlements of the individual titles or parcels of land concerned.
SUB-ST18	<b>Average Lot Size Rule – Parent Titles.</b>	

	<b>SUB-ST18.1</b>	<p>Titles which existed on 1 August 1998 shall be termed “parent titles.” The subdivision entitlement (SE) of such titles shall be calculated by taking the total area of the title (A) and dividing it by:</p> <p style="padding-left: 40px;">General Rural Zone – Specific Control Area, with or without Flood Channel Zone land- 8 (GRZSCA)</p> <p style="padding-left: 40px;">General Rural Zone, with or without Flood Channel Zone land- 4 (GRZ)</p> <p style="padding-left: 40px;">Flood Channel Zone land without General Rural Zone – Specific Control Area or General Rural Zone land- 8 (FC)</p> <p>And then subtracting 1.0 from the resulting number, ie:</p> $SE = \left( \frac{A}{GRZSCA \text{ or } GRZ \text{ or } FC} \right) - 1.0$
	<b>SUB-ST18.2</b>	<p>An area comprising one half of the parent title or an area comprising 20 hectares, whichever is a smaller area of land, shall be identified within each subdivision of a parent title as a “base portion”. This area of land must be wholly retained within one of the new allotments being created.</p> <p><b>Example:</b> <i>Farmer Brown has a title which is zoned partly General Rural Zone – Specific Control Area and partly Flood Channel 1. It is 92.7ha in area and has existed since 1967. To find out its subdivision potential he divides 92.7ha by 8 (R1 from above).</i></p> <p><i>His calculator gives an answer of 11.58, and he then subtracts one to give an answer of 10.58. The fraction of .58 is disregarded.</i></p> <p><i>The property can therefore be divided to produce a maximum of ten extra lots plus a balance area (SE = 10).</i></p> <p><i>Farmer Brown then calculates his “base portion”, which is half of the original title (i.e. 46.35ha, or 20ha, whichever is smaller). The answer he finds is therefore 20ha.</i></p>

		<p><i>The 10 extra allotments plus balance area can be of any size the farmer chooses, as long as the base portion (i.e. at least 20ha) remains in one piece and the Plan’s other rules (e.g. 0.8ha minimum size) are met.</i></p>
	<p><b>SUB-ST18.3</b></p>	<p>When a parent title is subdivided, the entitlement to subdivide shall be recalculated and distributed among the resulting titles as follows:</p> <p>The number of additional allotments (N) which have been subdivided from the parent title shall be subtracted from the maximum number of additional allotments which could have been subdivided from the parent title (SE from above), to give the total remaining entitlement (tRE), i.e.</p> $tRE = (SE - N)$ <p><b>Example:</b> Farmer Brown subdivided the 92.7ha property into three pieces, i.e. created two extra lots (N = 2). It was however allowed to be subdivided to provide up to 10 extra lots (SE = 10). The total remaining entitlement (tRE) is therefore either extra allotments. This entitlement is then divided amongst the three pieces of land (the resulting titles) as described below. (NB If Farmer Brown’s subdivision has already created the maximum of ten additional allotments from his property, no further subdivision would be allowed.)</p>
	<p><b>SUB-ST18.4</b></p>	<p>The total remaining entitlement (tRE), if any, shall be apportioned amongst the resulting titles (RT) by dividing the area of each resulting title by the area of the parent title (PT), and then multiplying the result by the total remaining entitlement (tRE). For this calculation the area of the base portion (BP) shall be excluded from the parent title and from any resulting title within which it is located.</p> $RE \text{ for each Resulting Title} = tRE \times \left( \frac{RT \text{ Area} - BP}{PT \text{ Area} - BP} \right)$ <p><b>Example:</b> The three titles created from Farmer Brown’s 92.7ha property had areas of 50ha, 18ha, and 24.7ha. The 50ha Lot 1</p>

		<p><i>contains the 20ha base portion. This 20ha is subtracted from the parent title, and from Lot 1. The three new titles (with Lot 1 now being a net area of 30ha) are each divided by the net area of the parent title (72.7ha), and then multiplied by the total remaining entitlement of 8, as follows:</i></p> <p style="text-align: center;"><i>Lot 1 is 30ha/72.7ha = 0.412      then 0.412 x 8 = 3.30</i></p> <p style="text-align: center;"><i>Lot 2 is 18ha/72.7ha = 0.248      then 0.248 x 8 = 1.98</i></p> <p style="text-align: center;"><i>Lot 3 is 24.7ha/72.7ha = 0.340      then 0.340 x 8 = 2.72</i></p> <p><i>Lot 1 can therefore have three additional lots (i.e. can be subdivided into up to four pieces). Lot 2 can have one additional lot, and Lot 3 can have two additional lots</i></p>
SUB-ST19	<p><b>Average Lot Size Rule – Resulting Titles and Subsequent Subdivisions</b></p> <p><b>SUB-ST19.1</b></p>	<p>In any subdivision of “resulting titles”, and in any subdivisions thereafter, the subdivision entitlement shall be recalculated for each new title. This recalculation shall be done in the manner described in SUB-ST18, except that the “parent title” shall be deemed to be the title being subdivided rather than that which existed on 1 August 1998.</p> <p><b>Example:</b> <i>Farmer MacDonald buys one of Farmer Brown’s three resulting titles, namely Lot 1 of 50ha. She knows that it can be potentially subdivided to provide three additional lots, and cuts it into two blocks of 12ha and 38ha. The subdivision potential of the two pieces is then recalculated. The potential of her block was three additional lots, and she has subdivided to provide only one. The total remaining entitlement is therefore two.</i></p> <p><i>This total remaining entitlement then needs to be apportioned between the two new pieces of land which Farmer MacDonald has created. The 38ha block contains the 20ha base portion, which needs to be subtracted from the area of both that allotment and the 50ha Lot 1.</i></p> <p><i>To do this the net areas of both allotments (12 and 18ha) are each divided by the net area of the title from which they came (30ha), and then multiplied by the total remaining entitlement of the whole 50ha block (2 new lots), as follows:</i></p> <p style="text-align: center;"><i>Lot 1 is 12ha/30ha = 0.40      then 0.40 x 2 = 0.80</i></p>



		<p><i>Lot 2 is 18ha net/30ha = 0.60 then 0.60 x 2 = 1.20</i></p> <p><i>Lot 2 can therefore be subdivided to provide one additional allotment, i.e. cut into two pieces. Lot 1 cannot be subdivided since its entitlement is less than one additional lot.</i></p> <p><b>NB:</b> Council will place a consent notice on the titles of newly-subdivided allotments which have no further subdivision potential under this Plan, to alert potential purchasers to that fact (Refer SUB-RC13)</p>
<b>SUB-ST20</b>	<b>Minimum Lot size</b> – All allotments shall be at least 0.8ha in area.	
<b>SUB-ST21</b>	<b>Separation factor for potential houses</b> – All allotments shall be capable of containing a notional <i>dwelling site</i> which is at least 35 metres from all boundaries of that allotment. The notional <i>dwelling site</i> shall consist of a 20 metre diameter circle, and shall meet the requirements of SUB-ST24 below as a suitable <i>building site</i> .	
<b>SUB-ST22</b>	<b>Effluent Disposal</b>	
	<b>SUB-ST22.1</b>	All allotments being created shall have a demonstrated suitability for the disposal of effluent from a <i>dwelling</i> on the land.
	<b>SUB-ST22.2</b>	Effluent shall be disposed of either within the <i>site</i> or into a Council- approved collective disposal system. Sewage drainage easements into neighbouring properties will not be permitted.
<b>SUB-ST23</b>	<b>Access to land drainage and water</b>	
	<b>SUB-ST23.1</b>	All allotments shall be demonstrated to have direct or legal access to natural or practical land drainage.
	<b>SUB-ST23.2</b>	All allotments being created for other than purely residential purposes shall have an adequate piped supply of water for stock watering purposes. This water supply may be by means of a supply easement from another property, or by means of a piped supply from a fenced farm dam.
	<b>SUB-ST23.3</b>	Allotments being created for a purpose which involves large areas of parking, <i>buildings</i> or other impervious surfaces shall make appropriate provision for stormwater disposal.

<b>SUB-ST24</b>	<p><b>Suitable building site</b></p> <p>All allotments shall have at least one suitable <i>site</i> where a <i>dwelling</i> could be erected, together with associated effluent and stormwater disposal systems. For the purposes of this rule a suitable <i>dwelling site</i> is one which complies with this Plan’s performance standards, is not within the Air Noise Area, (Refer NOISE-APP1), and has been demonstrated to be free of land stability hazards.</p>														
<b>SUB-ST25</b>	<p><b>Access to Allotments</b></p> <table border="1" data-bbox="386 590 1330 1808"> <tr> <td data-bbox="386 590 565 821"><b>SUB-ST25.1</b></td> <td data-bbox="565 590 1330 821">All allotments shall have at least one place for a vehicular access point which meets the sight distance requirements in TR-APP3. This access point may be shared with other property, provided that any necessary legal arrangements are entered into.</td> </tr> <tr> <td data-bbox="386 821 565 1283"><b>SUB-ST25.2</b></td> <td data-bbox="565 821 1330 1283"> <p>Any <i>entrance strip</i> which provides legal access to a <i>site</i>, shall have a minimum width of:</p> <table border="1" data-bbox="573 947 1330 1283"> <tr> <td data-bbox="573 947 789 1062"><b>SUB-ST25.2.a</b></td> <td data-bbox="789 947 1330 1062">8m where the number of <i>sites</i> is two or less,</td> </tr> <tr> <td data-bbox="573 1062 789 1167"><b>SUB-ST25.2.b</b></td> <td data-bbox="789 1062 1330 1167">10m where the number of <i>sites</i> is three or four.</td> </tr> <tr> <td data-bbox="573 1167 789 1283"><b>SUB-ST25.2.c</b></td> <td data-bbox="789 1167 1330 1283">12m where the number of <i>sites</i> is five or more.</td> </tr> </table> </td> </tr> <tr> <td data-bbox="386 1283 565 1472"><b>SUB-ST25.3</b></td> <td data-bbox="565 1283 1330 1472">Any vehicle crossings proposed by a subdivision and located less than 50 metres apart shall be combined to create a joint crossing place, if located on the same side of the <i>road</i> concerned.</td> </tr> <tr> <td data-bbox="386 1472 565 1808"><b>SUB-ST25.4</b></td> <td data-bbox="565 1472 1330 1808"> <p>Where common access to eight or more allotments is to be provided, this access must be a new legal <i>road</i>, to be formed to the <i>Council’s</i> standards.</p> <p><b>NB:</b> Where a new vehicle crossing is proposed to, or near, an arterial route, land use consent may be required if the relevant standards are not met. (Refer Rules GRUZ-ST15 and NH-ST5).</p> </td> </tr> </table>	<b>SUB-ST25.1</b>	All allotments shall have at least one place for a vehicular access point which meets the sight distance requirements in TR-APP3. This access point may be shared with other property, provided that any necessary legal arrangements are entered into.	<b>SUB-ST25.2</b>	<p>Any <i>entrance strip</i> which provides legal access to a <i>site</i>, shall have a minimum width of:</p> <table border="1" data-bbox="573 947 1330 1283"> <tr> <td data-bbox="573 947 789 1062"><b>SUB-ST25.2.a</b></td> <td data-bbox="789 947 1330 1062">8m where the number of <i>sites</i> is two or less,</td> </tr> <tr> <td data-bbox="573 1062 789 1167"><b>SUB-ST25.2.b</b></td> <td data-bbox="789 1062 1330 1167">10m where the number of <i>sites</i> is three or four.</td> </tr> <tr> <td data-bbox="573 1167 789 1283"><b>SUB-ST25.2.c</b></td> <td data-bbox="789 1167 1330 1283">12m where the number of <i>sites</i> is five or more.</td> </tr> </table>	<b>SUB-ST25.2.a</b>	8m where the number of <i>sites</i> is two or less,	<b>SUB-ST25.2.b</b>	10m where the number of <i>sites</i> is three or four.	<b>SUB-ST25.2.c</b>	12m where the number of <i>sites</i> is five or more.	<b>SUB-ST25.3</b>	Any vehicle crossings proposed by a subdivision and located less than 50 metres apart shall be combined to create a joint crossing place, if located on the same side of the <i>road</i> concerned.	<b>SUB-ST25.4</b>	<p>Where common access to eight or more allotments is to be provided, this access must be a new legal <i>road</i>, to be formed to the <i>Council’s</i> standards.</p> <p><b>NB:</b> Where a new vehicle crossing is proposed to, or near, an arterial route, land use consent may be required if the relevant standards are not met. (Refer Rules GRUZ-ST15 and NH-ST5).</p>
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<b>SUB-ST26</b>	<b>Fragmentation of Natural Areas</b> – No subdivision shall result in:														

	<b>SUB-ST26.1</b>	Any new boundary within any area of <i>indigenous forest</i> , or within any <i>wetland</i> listed in HH-APP1, or
	<b>SUB-ST26.2</b>	The fringes or bed of a lake being comprised in a greater number of titles than is currently the case, unless that area is to be protected by a <i>legal covenant</i> .
<b>SUB-ST27</b>	<b>New Intersections</b> – Spacing and visibility guidelines – Refer TR-APP3.	

## Further Standards Applying in All Zones, Except *Maewa (Growth Precinct 4)*

SUB-ST28	<b>Exception to frontage requirements</b> – <i>Council</i> may approve allotments without <i>road</i> frontage where it is satisfied with alternative access. (Section 321(3) Local Government Act 1974).						
SUB-ST29	<b>Concept plans</b> – In respect of any land capable of providing more than 50 housing allotments, <i>Council</i> may require an overall concept plan to be submitted, prior to any application for subdivision consent being considered.						
SUB-ST30	<b>Party walls</b> – Where a subdivision creates a party wall, that wall must comply with the Building Act’s fire rating and structural requirements.						
SUB-ST31	<p><b>Services In General Residential, Settlement, Town Centre, Mixed Use, Commercial, General Industrial, Stadium and Special Development Zones:</b></p> <table border="1" data-bbox="375 905 1318 1493"> <tr> <td data-bbox="375 905 578 1062">SUB-ST31.1</td> <td data-bbox="578 905 1318 1062"><i>Sites</i> in these zones shall be connected to reticulated services, and shall not cause existing services to be overloaded.</td> </tr> <tr> <td data-bbox="375 1062 578 1346">SUB-ST31.2</td> <td data-bbox="578 1062 1318 1346">All cables, including for power, telephone, and street lighting, shall be placed underground, except where existing services are above ground or where in <i>Council’s</i> opinion, underground services are economically unjustifiable due to problems associated with such issues as topography, geology, land stability or operational requirements.</td> </tr> <tr> <td data-bbox="375 1346 578 1493">SUB-ST31.3</td> <td data-bbox="578 1346 1318 1493">Where rear <i>sites</i> are being created, or a multi-unit development is being subdivided, easements shall be created over all underground services.</td> </tr> </table>	SUB-ST31.1	<i>Sites</i> in these zones shall be connected to reticulated services, and shall not cause existing services to be overloaded.	SUB-ST31.2	All cables, including for power, telephone, and street lighting, shall be placed underground, except where existing services are above ground or where in <i>Council’s</i> opinion, underground services are economically unjustifiable due to problems associated with such issues as topography, geology, land stability or operational requirements.	SUB-ST31.3	Where rear <i>sites</i> are being created, or a multi-unit development is being subdivided, easements shall be created over all underground services.
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SUB-ST32	<b>Separation from boundaries</b> – All proposed boundaries shall be <i>sited</i> at a sufficient distance from <i>buildings</i> to comply with the <i>yard</i> and <i>height</i> requirements of this Plan, and to meet the fire rating requirements of the Building Act 1991.						
SUB-ST33	<b>High-Voltage Electricity Transmission Lines</b> – Where land being subdivided contains high voltage (110kV or higher) transmission lines the subdivision design shall provide for <i>building sites</i> no closer than 20m either side of the centre point of the transmission line.						

<b>SUB-ST34</b>	<b>Access to sites within the Stadium Zone</b> – Any vehicle crossings proposed along <i>Kawakawa Road</i> must be located 50m apart. Any crossings within this distance must be joined to form one access
<b>SUB-ST35</b>	<b>Access to sites within the Special Development Zone</b>
<b>SUB-ST35.1</b>	Access to <i>sites</i> from South Street must be accommodated by a service lane adjacent to South Street.
<b>SUB-ST35.2</b>	Any vehicle crossings proposed along <i>Kawakawa Road</i> must be located 50m apart. Any crossings within this distance must be joined to form one access.

## Rules – *Maewa (Growth Precinct 4)*

Rules in this chapter need to be read in conjunction with the rules in chapters Energy and Infrastructure, Transport, Noise, Earthworks, Signs, Temporary Activities, Relocated Buildings, Boarding, Breeding and Training Kennels, and the relevant *zone* provisions.

### Restricted Discretionary Activities (RDIS) – *Maewa (Growth Precinct 4)*

<b>SUB-MAE-R1</b>	Any subdivision of land within the area shown within SUB-APP1 – <i>Maewa (Growth Precinct 4)</i> Structure Plan.
	<b>Matters of Discretion (MD)</b>
	For this activity, the Council has restricted its discretion to considering the following matters:
<b>SUB-MAE-MD1</b>	The size, shape and arrangement of lots.
<b>SUB-MAE-MD2</b>	Provision of water supply and disposal of water, wastewater and stormwater.
<b>SUB-MAE-MD3</b>	The number, location and formation of vehicle crossings.

<b>SUB-MAE-MD4</b>	Safe and efficient operation of the roading network, including walking and cycling.
<b>SUB-MAE-MD5</b>	Suitability of proposed lots for subsequent <i>buildings</i> and future use.
<b>SUB-MAE-MD6</b>	Avoidance or mitigation of flood hazard and stormwater inundation.
<b>SUB-MAE-MD7</b>	The provision of open space networks.
<b>SUB-MAE-MD8</b>	Availability of <i>Council</i> infrastructure.
<b>SUB-MAE-MD9</b>	Consistency with <i>Council's</i> Engineering Standards.
<b>Assessment Criteria (AC)</b>	
In determining whether to grant a resource consent and what conditions to impose, the <i>Council</i> will, in addition to the objectives and policies of the Subdivision and General Residential Chapters, assess any application within <i>Maewa (Growth Precinct 4)</i> in terms of the following assessment criteria:	
<b>SUB-MAE-AC1</b>	Whether the subdivision design and layout compliments the diverse character and <i>amenity values</i> of Feilding's residential area.
<b>SUB-MAE-AC2</b>	The extent to which the subdivision is designed to provide for the future development of adjoining sites, in accordance with SUB-APP1 – <i>Maewa (Growth Precinct 4)</i> Structure Plan.
<b>SUB-MAE-AC3</b>	How the proposed development and subdivision relates and connects to adjoining sites and areas and whether it enables future staged development and or subdivision of adjoining lots by giving <i>effect</i> to with the SUB-APP1 – <i>Maewa (Growth Precinct 4)</i> Structure Plan.
<b>SUB-MAE-AC4</b>	The extent to which the proposed layout takes into consideration the shape, orientation and aspects of lots, to create building sites and outdoor amenity areas which have a northward orientation and ability for passive solar gain.

<b>SUB-MAE-AC5</b>	The extent to which the lot layout will allow new buildings to retain reasonable visual privacy and sunlight.
<b>SUB-MAE-AC6</b>	The extent to which all lots within the subdivision have safe and adequate vehicle access, taking into account the requirements of the access performance standards of TR-R2, and TR-ST1.
<b>SUB-MAE-AC7</b>	The extent to which natural hazards are avoided or mitigated.
<b>SUB-MAE-AC8</b>	The degree to which the subdivision design avoids or mitigates any likely increases in peak stormwater run-off and peak stormwater flow to achieve <i>stormwater neutrality</i> .
<b>SUB-MAE-AC9</b>	The consistency of the proposed subdivision with relevant subdivision engineering requirements.
<b>SUB-MAE-AC10</b>	The extent to which stormwater inundation <i>effects</i> are managed, including overland flow paths.
<b>SUB-MAE-AC11</b>	The extent to which minimum floor levels are assessed and provided for.
<b>SUB-MAE-AC12</b>	The extent to which subdivision design and layout gives <i>effect</i> to SUB-APP1 – <i>Maewa (Growth Precinct 4) Structure Plan</i> .
<b>SUB-MAE-AC13</b>	The degree to which the subdivision provides for the integration of essential infrastructure.
<b>SUB-MAE-AC14</b>	The extent to which Council has the ability to maintain and access infrastructure and services in the future.

#### Guidance Notes:

1. *Earthworks*, damming and diversion are also regulated by the Manawatū-Wanganui Regional Council and a resource consent maybe required under the rules of the One Plan.
2. The National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health (2011) also applies to subdivision and a consent may be required under those provisions.
3. The provisions of the National Environmental Standard for *Telecommunications Facilities* (2008) apply and resource consent may be required under those Standards. In

the event of a conflict between them the provisions of the National Environmental Standard override the District Plan.

## Discretionary Activities (DIS) – Maewa (Growth Precinct 4)

The following activity is a Discretionary Activity within *Maewa (Growth Precinct 4)*:

<b>SUB-MAE-R2</b>	Any subdivision that does not meet the performance standards in SUB-MAE-ST1 to SUB-MAE-ST8.
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<b>SUB-MAE-R3</b>	Any subdivision not specifically provided for in this Plan.
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### Assessment Criteria

In determining whether to grant a resource consent and what conditions to impose, the *Council* will, in addition to the objectives and policies of the Subdivision and the General Residential *Zone* Chapters, assess any application within *Maewa (Growth Precinct 4)* in terms of the assessment criteria in SUB-MAE-AC1 to SUB-MAE-AC14.

### Guidance Note:

The National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health (2011) also applies to subdivision and a consent may be required under those provisions.

## Standards – Maewa (Growth Precinct 4)

<b>SUB-MAE-ST1</b>	<b>Lot Size</b>	
	<b>SUB-MAE-ST1.1</b>	Any subdivision must comply with an average lot size of 600m <sup>2</sup> .
	<b>SUB-MAE-ST1.2</b>	Any subdivision must ensure lot sizes are sufficient in size to achieve <i>site coverage</i> , outdoor space and <i>permeable surface</i> area requirements for the General Residential <i>Zone</i> in GRZ-ST1 to GRZ-ST11.



<b>SUB-MAE-ST2</b>	<b>Access and road design</b>	
	<b>SUB-MAE-ST2.1</b>	Access and <i>Road</i> Design and construction must comply with <i>Council</i> Engineering Standards. Common access to eight or more lots must be provided by <i>road</i> formed to <i>Council</i> standards.
	<b>SUB-MAE-ST2.2</b>	Access must comply with the provisions in TR-R2, and TR-ST1.
	<b>SUB-MAE-ST2.3</b>	Roads must comply with the design requirements of TR - APP2 – <i>Road</i> Cross Sections.
<b>SUB-MAE-ST3</b>	<b>Shape factor</b> – Each residential lot must be capable of containing an 18m diameter circle.	
<b>SUB-MAE-ST4</b>	<b>Comprehensive development plan</b> – Any development and subdivision must have a Comprehensive Development Plan that demonstrates how the proposal:	
	<b>SUB-MAE-ST4.1</b>	Demonstrates a connected internal roading network that facilitates movement demands within the area while also providing a block structure that supports a high quality urban environment.
	<b>SUB-MAE-ST4.2</b>	Shows the location, width and design of publicly accessible roads, laneways and accessways having regard to vehicles, public transport, pedestrians and cyclists that are intended to use them.
	<b>SUB-MAE-ST4.3</b>	Outlines the servicing required for the development, and ensures suitable sizing of infrastructure to service the wider <i>Growth Precinct</i> .
	<b>SUB-MAE-ST4.4</b>	Includes a spatial layout plan showing how the development achieves connectivity and integration to the wider area including public access along the Makino (Mangakino) Stream and its margins.
	<b>SUB-MAE-ST4.5</b>	Includes a spatial layout plan showing how the development achieves connectivity and integration to the wider area including public access along the Makino (Mangakino) Stream and its margins.

	<b>SUB-MAE-ST4.6</b>	Identifies the location of natural watercourses and overland flow path and how these will be managed or enhanced.
	<b>SUB-MAE-ST4.7</b>	Provides clear reference to:
	<b>SUB-MAE-ST4.7.a</b>	The objectives and policies of the <i>Zone</i> .
	<b>SUB-MAE-ST4.7.b</b>	Current and anticipated future built form and uses.
	<b>SUB-MAE-ST4.7.c</b>	Anticipated future capacity of the Activity area.
	<b>SUB-MAE-ST4.7.d</b>	Relationships and connections within <i>Maewa (Growth Precinct 4)</i> .
<b>SUB-MAE-ST5</b>	<b>Earthworks:</b>	
	<b>SUB-MAE-ST5.1</b>	All subdivisions must comply with the provisions in EW-R1, EW-R2, and EW-ST1 to EW-ST9.
	<b>SUB-MAE-ST5.2</b>	Existing overland flow paths as shown in SUB - APP2 are maintained and not filled in, dammed or diverted.
	<b>Guidance Note:</b> <i>Earthworks</i> , damming and diversion are also regulated by the Manawatū-Wanganui <i>Regional Council</i> and a resource consent maybe required under the rules of the One Plan.	
<b>SUB-MAE-ST6</b>	<b>Building Platforms – Building platforms</b> must be identified which are at or above the flood and stormwater inundation level predicted for a 0.5% annual exceedance probability (AEP) (1 in 200 year) flood event.	
	<b>Guidance Notes:</b>	
	1. <i>Council</i> has a model for stormwater that can be used to predict flood levels for areas within <i>Maewa (Growth Precinct 4)</i> . Liaison with <i>Council's</i> Land Development Manager is recommended. Refer to Manawatū Whanganui <i>Regional Council</i> for flood information on the Makino (Mangakino) Stream.	
	2. Calculations for this performance condition shall exclude flooding as a result of the failure of the Reids Line Floodway.	
	<b>Infrastructure:</b>	

SUB-MAE-ST7	SUB-MAE-ST7.1	All cables and pipes, including for gas, power and telecommunications must be placed underground, except where they are required to be above ground for connection to associated infrastructure.
	SUB-MAE-ST7.2	All <i>Council's essential infrastructure</i> must be available for connection within 30 metres of the nearest point of the land being subdivided.
	SUB-MAE-ST7.3	Any subdivision must be connected to reticulated services designed and constructed to comply with <i>Council Engineering Standards</i> .
	SUB-MAE-ST7.4	All <i>Council's new essential infrastructure</i> proposed in a subdivision must be located within <i>road reserve</i> and vested in <i>Council</i> .
	SUB-MAE-ST7.5	Development must only occur in areas where <i>Council's essential infrastructure</i> is available and of sufficient capacity for the subdivision.
	<b>Guidance Note:</b> In situations where development is proposed ahead of <i>Council</i> infrastructure investment, <i>Council</i> may enter into agreements with land owners as outlined in the <i>Council Development Contributions Policy</i> around the provision of <i>Council's essential infrastructure</i> .	
SUB-MAE-ST8	<b>Stormwater Management Plan – For Maewa (Growth Precinct 4)</b> , a report from a Chartered Professional Stormwater Engineer identifying the potential stormwater risks to the <i>site</i> and how <i>stormwater neutrality</i> will be achieved at the following scales:	
	SUB-MAE-ST8.1	Over the area of land that is the subject of the subdivision proposal.
	SUB-MAE-ST8.2	Over the <i>Growth Precinct</i> in which the subdivision proposal is located.
	This report must cover:	
SUB-MAE-ST8.3	A <i>site</i> specific hydrologic modelling assessment based on the proposed subdivision plan and includes assessment for how the stormwater will be collected, attenuated and managed <i>onsite</i> .	

<b>SUB-MAE-ST8.4</b>	Scoping of all internal stormwater infrastructure and how it will interact with the existing drainage system including connection to the existing stormwater network.
<b>SUB-MAE-ST8.5</b>	Treatment of all stormwater runoff prior to discharge to the primary network.
<b>SUB-MAE-ST8.6</b>	Protection of treatment devices and treatment runoff during all phases of construction.
<b>SUB-MAE-ST8.7</b>	Outline how the development will hydraulically relate to its surrounding environs, including assessment of overland flow paths and potential flood impacts of proposed and existing development.
<b>SUB-MAE-ST8.8</b>	Outline how the proposed stormwater management system will provide attenuation <i>onsite</i> to minimise runoff from the <i>site</i> .
<b>SUB-MAE-ST8.9</b>	Outline how the proposed stormwater management system is consistent with <i>Council's</i> Engineering Standards and NZS 4404:2010 Land Development and Subdivision Infrastructure.
<b>SUB-MAE-ST8.10</b>	How the proposed stormwater management approach recognises the Makino (Mangakino) Stream and its margins as a sensitive receiving environment where natural, public access and tangata whenua values must be recognised and provided for by identifying and enhancing those values.
	<p>This report must also contain recommendations as to the location, design and construction of stormwater infrastructure that are appropriate to mitigate any characteristic or feature identified.</p> <p>Ongoing maintenance of the stormwater infrastructure recommended in the Report must also be outlined.</p> <p>A copy of any <i>site</i> calculations must accompany the report.</p>

## Explanation

### Impact on rural soils

It is important to keep open a wide range of options for the future use of land, so that it can continue to meet the reasonably foreseeable needs of future generations and can be sustainably managed to preserve its life-supporting capacity in terms of *the Act*. Subdivision can compromise the potential land use options by fragmenting ownership. It may cause blocks to become too small for certain types of rural activity. It may then be difficult to collect them together again for production, particularly if the land has become over-capitalised with *buildings*. Farmers' price for land is related to potential farm income, but rural-residential users' price is influenced more by off-farm income. Below a certain size, blocks may become too small for practical rural use at all.

This Plan uses an average lot size philosophy. It does not prevent the creation of small blocks within the rural *zone*, but effectively requires that people creating a small lot must also create a larger one to achieve the average. There is also a requirement that at least 50% (or at least 20 hectares, whichever is smaller) of the block being subdivided be left in one piece. This aims to discourage subdivision into uniform blocks all at the average size. These controls will help to retain an overall subdivision pattern within the District which allows a wide range of land uses to be able to secure land holdings appropriate to their needs.

Retaining options for use of the District's "versatile land" (ie Class I and II soils apart from Class IIs2) is particularly vital. An explanation of the land use capability classes and why versatile land is a special resource can be found in the GRUZ – General Rural *Zone* chapter). It is in very limited supply and is under the greatest demand for small-lot subdivision, especially near Feilding and Palmerston North. If widespread fragmentation into uniform small lots was permitted it would not take long for subdivision to make significant inroads into the supply of versatile land and of larger blocks in these locations. The Plan's General Rural *Zone* – Specific Control Area identifies the District's main areas of versatile land, and recognises the potential *effects* on its productive options by requiring an 8ha minimum average lot size in that *zone*.

The average lot size for the General Rural *Zone* (less-versatile land) has been set at 4ha. This is because the finite demand for small rural blocks is unlikely ever to have a major impact on the availability of the District's large areas of non-elite soils for productive uses. The subdivision controls for these areas are therefore primarily based instead on landscape and rural character considerations. (Refer SUB-03).

Freeing up rural-residential subdivision of non-versatile land close to Palmerston North and Feilding may bring overall small-block prices down. This would allow productive users to compete for high quality land on a more equal basis.

SUB-P2 notes that the Plan requires that land quality be taken into account in decisions to *zone* extra land for urban expansion. This is because any high quality land which is put under urban development is irretrievably lost.

### **Rural separation distances**

People generally expect to build a *dwelling* on new titles. Subdivisions will also sometimes change the legal boundaries around existing houses. There is potential for activities next door to adversely affect occupants of the *dwelling* if those activities are not adequately separated. New dwellings, without sufficient separation, can also have an impact upon rural activities by creating a pressure for those activities to be curtailed.

Seeking to promote a level of amenity for rural residents is in line with the matters of importance in *the Act*. It is related to the rural landscape and effluent disposal objectives (SUB-O3, SUB-O6) and would also assist full productive use of rural land to occur without conflicting with neighbours. Many rural residents expect the countryside to be an idyllic place, and having adequate separation can help. These residents should however realise that some noise, odour, dust etc. is inevitably associated with normal agricultural production and will have to be “put up with.” Bearing this in mind, the minimum lot size in the Rural zones has been set at 0.8ha. The Plan’s rules do however allow possible development of rural house allotments down to 4000m<sup>2</sup> in size in specified locations (SUB-P6).

If farmers are subdividing off a surplus house, they often wish to lose as little productive land as possible and may want the new house lot to be much smaller than this minimum. Requiring a 0.8ha allotment is however fully justified due to the improvement in residential amenity which usually results from the extra separation which a larger lot can provide.

### **Landscape appearance and character**

The elements which contribute to rural and urban “character” are set out in GRUZ-O2, GRZ-O1, and SETZ-O2. It is important to maintain a different landscape appearance between “town and country” for aesthetic and environmental reasons. This is in line with *the Act*’s statements about maintaining and enhancing the quality of the environment and *amenity values*. These qualities are highly valued by many rural residents and contribute to New Zealand’s “clean green” image for visitors. Having said this, though, rural areas are primarily places for production from the land rather than scenic reserves for townspeople.

Subdivision patterns have an important influence on housing densities, and allowing large numbers of small lots to be created in a rural locality can jeopardise its rural character. *Effects* on the landscape must therefore be considered at the subdivision stage.

The average density of dwellings influences the “ruralness” of a locality rather than minimum lot size. For example an area of large farms interspersed with quarter-acre house *sites* can still appear very rural. This Plan therefore uses rural subdivision controls based on an average lot size to help

achieve SUB-P28. The average lot size of 4ha chosen for the Rural 2 *zone* represents the density beyond which *Council's* analysis shows that rural character begins to be lost. The 8ha average used for the General Rural *Zone* – Specific Control Area has been selected for reasons other than rural character, (see SUB-O1), but also represents a density at which rural amenities will not be adversely affected by housing.

The General Rural *Zone* has special controls on the ribbon development of housing along rural roads, to help maintain the rural appearance of these areas. New allotments created will have to meet these requirements, as well as the *yard* controls applied to give adequate setback for rural residents from roads and each other. The latter aims to achieve a rural ambience for the occupants of rural houses.

Elements of urban character already exist around some rural focal points and around the edge of certain townships, where the need to retain “ruralness” is less important. These rural focal points are Colyton, Hiwinui, Taikorea, Glen Oroua, Rangiwahia, Utuwai, Waituna West and Pohangina. The townships concerned are Apiti, Feilding, Rongotea, Bunnythorpe, Cheltenham, Sanson, Kimbolton, and Halcombe. *Council* will consider small lot subdivision (i.e. minimum lot size of around 4000m<sup>2</sup>) in these localities as a discretionary activity. What is appropriate for these places, however, is a low-density rural settlement rather than a fully-fledged township.

### **Water supply, stormwater, and farm drainage**

An *effect* of subdivision is that new lots usually need their own separate access to water supplies, farm drainage and stormwater disposal. If left unserved, or without an appropriate level of servicing, the development that occurs after subdivision can have an impact on the health, safety and wellbeing of the District’s residents. Potential problems include surface ponding, an inability to properly drain farmland, more rapid or uncontrolled stormwater runoff, and lack of proper access to drinking or stock water. Action at the subdivision stage can avoid these problems by for example creating appropriate easements so that new lots have legal access to public drains.

People often expect to be buying ready-serviced sections if located in a water supply scheme area. These schemes however have vastly different levels of independence, financial structures, policies and bylaws. The only feasible uniform approach is to refer subdivision applications to the appropriate supply authority for their action.

### **Domestic effluent disposal**

The new *dwelling* which is expected after subdivision will need to dispose of domestic effluent. If disposal is not properly catered for, adverse *effects* on water quality may result. The *effects* of unsewered disposal can be cumulative, only being visible when a certain “threshold” density is reached.

It is preferable to address the potential *effects* at the subdivision stage rather than leaving it until a *building* consent is applied for. The subdivision stage is the best time to have new sewer mains

and connections installed, e.g. when new streets are being constructed. People in seweraged townships expect their newly-purchased section to be serviced already.

Secondly, if a communal treatment scheme is the most practical method for a particular subdivision, it is difficult to get one built once the lots have been sold and a number of different owners are involved. If a group treatment scheme fails, there can be serious problems if possible backups, (e.g. sufficient land for soakage) were not considered at the subdivision stage.

Thirdly, the last people to build in an unsewered subdivision may have to use much more expensive disposal methods if water quality is starting to be degraded by previous houses.

Effluent must be disposed of within the allotment concerned, unless a communal system is proposed or a town sewer is available. *Council* will not accept easements over adjoining properties to be used for effluent disposal. Existing systems may be required to be re-laid to fit within the allotment, and new systems will have to be contained within it.

## Natural hazards

*Council* has a duty under *the Act* to mitigate natural hazards and limit construction of *buildings* (particularly dwellings) on land liable to flooding or instability. Section 106 of *the Act* states that:

*“A consent authority shall not grant a subdivision consent if it considers that either -*

- a) Any land in respect of which consent is sought, or any structure on that land, is or is likely to be subject to material damage by erosion, falling debris, subsidence, slippage, or inundation from any source; or*
- b) Any subsequent use that is likely to be made of the land is likely to accelerate, worsen, or result in material damage to that land, other land, or structure by erosion, falling debris.....*

*unless the consent authority is satisfied that the (above) effects will be avoided, remedied or mitigated by.....rules in the District Plan, conditions of resource consent.....or other matters including works.”*

For example, subdivision may be permitted under this Section if Plan rules prevent *building*, or if stopbanking is proposed.

Any potential *building site* must include space for the facilities which support a *dwelling*, particularly effluent disposal systems and water supply tanks in the rural situation. These facilities can be just as adversely affected by events like land slippage or flooding. If people need to escape during or after a hazard event it is also important that their access routes are not blocked by hazards (NH-O2).



If natural hazards are addressed under the Plan at the subdivision stage, it is easier for purchasers, vendors and *Council* to know the limitations and possibilities of a particular block. We must avoid situations where people buy land in the mistaken belief that it can be built on.

The plan does however take into account that a *building site* is not always important. One example is where a farm runoff property will be used in conjunction with other land and no new *dwelling* is needed.

## Traffic Safety and Efficiency

Traffic safety and efficiency is directly related to the purposes of the Resource Management Act (1991), which requires the management of *natural and physical resources* in a way that enables people and communities to provide for their health and safety.

Subdivision of land often results in the creation of additional access points into the roading network which results in an increase of traffic. To manage this, the Plan implements the following traffic safety and efficiency standards:

- Minimum sight distances from vehicle crossings, intersections and railway crossings.
- Minimum spacings between vehicle crossings, and between intersections, on arterial roads.
- Physical formation of vehicle crossings and rights-of-way, depending on their likely level of use.

## Urban growth

SUB-O8 recognises new urban growth areas for Feilding and the provision for urban growth in other villages in the district. Residential and industrial growth projections signal a continuation of demand across the district, with a concentration in Feilding. To provide for additional housing and industrial demand across the district, two approaches to growth are set out in the above policies.

Firstly, SUB-P24 sets a criteria-based approach for determining areas for urban growth in Manawatū towns (apart from Feilding) and villages. This criteria approach is applied where no urban growth areas have been identified, and enables broad and specific considerations to be used in assessing private plan changes to rezone land to General Residential or Settlement *Zone*.

Secondly, SUB-P25 to SUB-P27 provide a more directive approach for managing urban growth in Feilding to meet the anticipated demand.

### Criteria approach

For the first approach, SUB-P24.1 relates to natural hazards, as a constraint to extending many of the towns and villages. For instance, flooding occurs to the north of Sanson and to the south of Bunnythorpe. Tangimoana relies on stopbank protection from the Rangitikei River. Any growth

in Himatangi Beach should not be toward the south, which would entail moving sand dunes. Apart from the ecological *effects* of removing those dunes, constructing streets and sections afterwards would pose severe sand stabilisation problems. The possibility of sea level rise also needs to be taken into account for the beach settlements. It would have a significant *effect* on ground water table levels and on drainage ability, which is already limited in Tangimoana.

Urban growth can have adverse *effects* on the landscape (SUB-P24.2) and can impinge on areas which have heritage value, including significant habitats of indigenous fauna. *Council* is not aware of any potential problems of this nature, apart from potential impact on coastal values at Himatangi Beach and Tangimoana and the impact on rural amenities which results from converting farmland to urban use (SUB-P24.8).

The *effects* of urban expansion upon versatile soils also need to be considered (SUB-P24.3). Such land is a valuable and relatively limited resource, and its future options for use need to be safeguarded whenever possible. Subject to all other factors being equal, developing less versatile soils is preferable to highly versatile soils.

SUB-P24.4 refers to the provision of utility services (water supply, effluent and stormwater disposal). It is essential that any extensions to townships with sewers are also provided with utility services. Whether connection to the town system or a completely new system is proposed, an agreement will need to be reached between *Council* and the developer about the costs of extending and connecting to utility services. (Refer: Financial Contributions Chapter: Utility Sites/Services Purposes, FIN-P8 to FIN-P13).

SUB-P24.5 recognises that land use, energy consumption and provision of transport are interrelated. Minimising transport and energy costs in connection with urban growth areas, (e.g. the cost of residents travelling to and from the town centre), needs to be taken into account in considering any growth areas.

SUB-P24.6 acknowledges the importance of access to amenities in new growth areas. An extension of an existing *urban area*, where amenities are already provided, will enable new growth areas to more quickly become part of a functional neighbourhood. A situation of isolated residential streets separated from the rest of the town must be avoided.

### **Directive Approach**

SUB-P25 relates to the urban growth of Feilding only and applies a more directive approach than SUB-P24. *Council* has identified specific areas around the periphery of the existing *urban area* for future residential and industrial development. These growth areas were identified based on a multiple-criteria analysis of areas suitable/unsuitable for urban development as well as community consultation. Any proposed extension to the boundaries of the growth areas would require careful consideration of environmental and community standards and the necessity for, and appropriateness of extending public services.

To address these urban growth issues, *Council* has prepared Structure Plans for the growth areas (called Precincts). The Structure Plans are based on a series of investigations and illustrate an urban form and structure that responds to individual localities and includes the provision of infrastructure (particularly stormwater), *road* networks, open space networks, density and *site* layout. A range of residential lifestyles and industrial properties are to be provided in order to accommodate growth now and in the future.

Within the existing *urban areas*, capacity exists for intensification of housing through the redevelopment of existing properties. This intensification may be in the form of single houses on existing properties or multiple houses on larger properties.

*Council* should always look at the capacity for growth within the existing urban boundary. *Infill* development is an efficient use of resources (SUB-O9). Kimbolton and Halcombe have a relatively low density and have the potential to cater for significant development by way of *infill*. Considerable potential for *infill* also still exists in Feilding.

## Urban Neighbourhoods

Subdivision design and the physical works undertaken at subdivision time have a large and permanent *effect* upon the form and character of an *urban area*. Street patterns, reserve locations, shop *sites*, walkways, *road* widths and surfaces, land contour and retention of trees are decided at the subdivision stage. Structure Plan *Growth Precincts* are spatially planned in individual Structure Plans. The Structure Plans provide a spatial plan comprising the density expectations, transport links, open space areas and neighbourhood focal points. The transport links include the indicative location of *Collector Roads* and main *Local Roads* to ensure connectivity throughout a Precinct, and to its surrounds.

The Subdivision Design Guide provides more guidance on developing the subdivisions to meet the urban neighbourhood expectations set out in SUB-O9 and the principles set out in the Feilding Framework Plan.

SUB-O9 is also relevant for greenfield subdivision and development outside the Feilding township.

The influence of urban design to achieve more efficient connected neighbourhoods will result in urban places with more cost effective and greater range of movement options for people – this will also increase social interactions and an overall benefit to the welfare of current and future generations.

*Infill* subdivision can make better use of existing urban land, streets and utility services. It can also reduce the need to lay new piping and for farmland to be converted to urban use. Under *the Act* a liberal attitude must be taken toward *infill*, as long as potential adverse *effects* are avoided. *Council* goes further and aims to actively promote *infill*. In many places though, the slope of the land, or the limited capacity of utility services, will limit the number of new lots which can be created.

## Urban Allotments

When people purchase an allotment, they expect to be able to use it. *Council* will make sure that new lots are reasonably capable of being used for activities permitted in the *zone*. It is relevant to consider whether the allotment is suitable for a range of different uses/*buildings* rather than just the one proposed by the applicant. This does not apply to some subdivisions such as the tiny allotments created for utilities.

The residential growth areas are anticipated to meet the short and long term need for greenfield developments. Larger lots can meet the immediate need for housing and lifestyle choices. However, in the longer-term, these larger lots may need to be repurposed for more intensive uses through further subdivision. Therefore, at the time of original subdivision, the size and shape of lots and the location of *buildings* on these larger lots is to demonstrate the ability for future intensification/subdivision to meet future needs.

## Fragmentation of Natural Areas and River Channels

*Indigenous forest* areas, lakes and wetlands owned by more than one party can be more difficult to manage as one entity. Each landowner may have their own ideas on weed control, drainage, stock access, public use etc. People may decide to fence new boundaries running through bush areas, to the detriment of the bush.

The Plan's rules therefore only permit new boundaries through *indigenous forest* areas or significant wetlands if those areas are to be protected by a *legal covenant*. The same requirement applies to subdivisions which would increase the number of parties who own the bed or fringes of a lake. Likewise rural subdivision in the coastal area has been made a *discretionary activity* so that its impact upon the coastal environment can be assessed.

SUB-P34 recognises that stream valleys becoming more closely subdivided can lead to pressure from the new owners for the stream to be straightened and stopbanked. Smallblock owners are likely to be less receptive to the stream's shifts in direction than a person who owns the whole stream floodplain and "gains and loses" every time the river shifts. Straightening and stopbanking have an adverse impact on the natural character on the waterway and on its ecological value, e.g. suitability for fish spawning.

*Council* will monitor the subdivision of areas where such impacts may become a problem, and will introduce specific controls for those areas if warranted.

## Methods

### District Plan Methods

- SUB-ST17 to SUB-ST27

- Decisions on applications for new General Residential or Settlement zoning around townships.
- Land use controls, and subdivision controls based on average lot size (SUB-ST17 to SUB-ST27).
- Plan rules on farm drainage, water supply and stormwater disposal (SUB-ST17 to SUB-27, and SUB-ST31)
- Information requirements for subdivision applications (GEN – General Approach).
- SUB-ST1 to SUB-ST35 and FIN – Financial Contributions (FIN-CR8).
- Using consent notices on titles to alert buyers to the presence of a hazard.
- Subdivision consent conditions, including consent notices and segregation strips
- Land use consent conditions, including combining vehicle crossings.
- Structure Plan *Growth Precincts* 1-3 and Subdivision Design Guide.
- *Deferred Residential Zoning* where infrastructure provision is not currently available.
- Considering applications for Plan Changes to extend urban zoning.
- “Concept plan” requirements to show future stages of “*greenfields*” developments (SUB-ST29).
- Development and implementation of Structure Plan *Growth Precincts* 1-3.
- Subdivision Design Guide to assist applicants, *Council* officers and decision makers design and assess proposals for greenfield subdivision.
- Subdivision consent conditions requiring covenants.

## Other Methods

- Facilitating advice to land users and purchasers about soil capability, i.e. helping to “match up” versatile soils with the people who need them or who will use them.
- Possible tree planting programmes and beautification of appropriate rural areas.
- Liaison with rural water supply authorities.
- Advice to the public and drainlayers about disposal systems and legal requirements.
- Investigating alternatives to the standard septic tank-effluent bed systems and setting up demonstration systems where appropriate.

- Provision of hazard information through LIM procedures and other avenues, in conjunction with the *Regional Council*.
- Persuading people not to proceed with problem subdivisions, or to modify them to take hazards into account.
- Construction of side roads to service subdivisions.
- *Road* works to improve traffic safety and flow if justified in terms of cost/benefits and the District's overall roading priorities.
- Local Government Act provisions allowing vehicle crossings to be required when a *building* consent is applied for.
- Limited Access *Road* controls administered by Transit New Zealand for State Highways and by *Council* for the former State Highway 56.
- Policies on new connections to *Council* services.
- Subdivision layout plans being developed when new areas are zoned for urban purposes, and used as a guideline for later development.
- *Council* meeting some of the costs involved in design features which have a clear public benefit, e.g. pedestrian accessways.
- Possible direct *Council* involvement in developing *infill* sections.
- Providing advice for subdividers about District Plan requirements and about redesigning allotments.

## Environmental Results Anticipated

1. Rural subdivision produces a range of allotment sizes, so that options for the future use of rural land, particularly the versatile land, are not compromised. (SUB-O1).
2. Soil compaction, contamination or removal do not have a significant adverse *effect* upon the life-supporting capacity of the District's rural soils. (SUB-O1).
3. No more than a minimal amount of versatile land is converted to urban use (SUB-P2).
4. Most residents of new rural allotments have room for consider that they have adequate amenity and satisfactory separation between their dwellings and neighbouring activities. (SUB-O2).
5. Low levels of complaint from such residents about rural activities. (SUB-O2).

6. No significant adverse *effects* from subdivision upon the landscape quality or the existing character and amenities of the rural zones. (SUB-O3).
7. All new allotments have adequate provision for water supply, stormwater disposal, domestic effluent disposal and farm drainage needs. (SUB-O4, SUB-O5).
8. No dwellings constructed on new allotments are damaged or destroyed by land instability or by floods smaller than a 100 year event. (SUB-O10).
9. There are no instances where the size and shape of a newly-subdivided urban allotment is inappropriate for future use. (SUB-O6).
10. There are no traffic accidents attributable to the design or placement of driveways and intersections installed to serve new allotments. (SUB-O7).
11. Himatangi Beach and Tangimoana do not spread any further outward. *Infill* at Halcombe, Bunnythorpe and Kimbolton occurs rather than the extension of these townships. (SUB-O8)
12. Subdivision design in urban growth areas avoids direct access for new allotments to arterial routes. (SUB-O8)
13. No recorded instances where fragmentation of land ownership arising from subdivision adversely affects the natural values of *indigenous forest* areas, lakes, streams, the coastal area or significant wetlands. (SUB-O11)
14. Subdivision layouts for new urban neighbourhoods comply with *Council's* guidelines, and residents of these neighbourhoods are satisfied with the amenities of these areas and their accessibility to the facilities which they need. (SUB-O9).

## Monitoring and Review Procedures

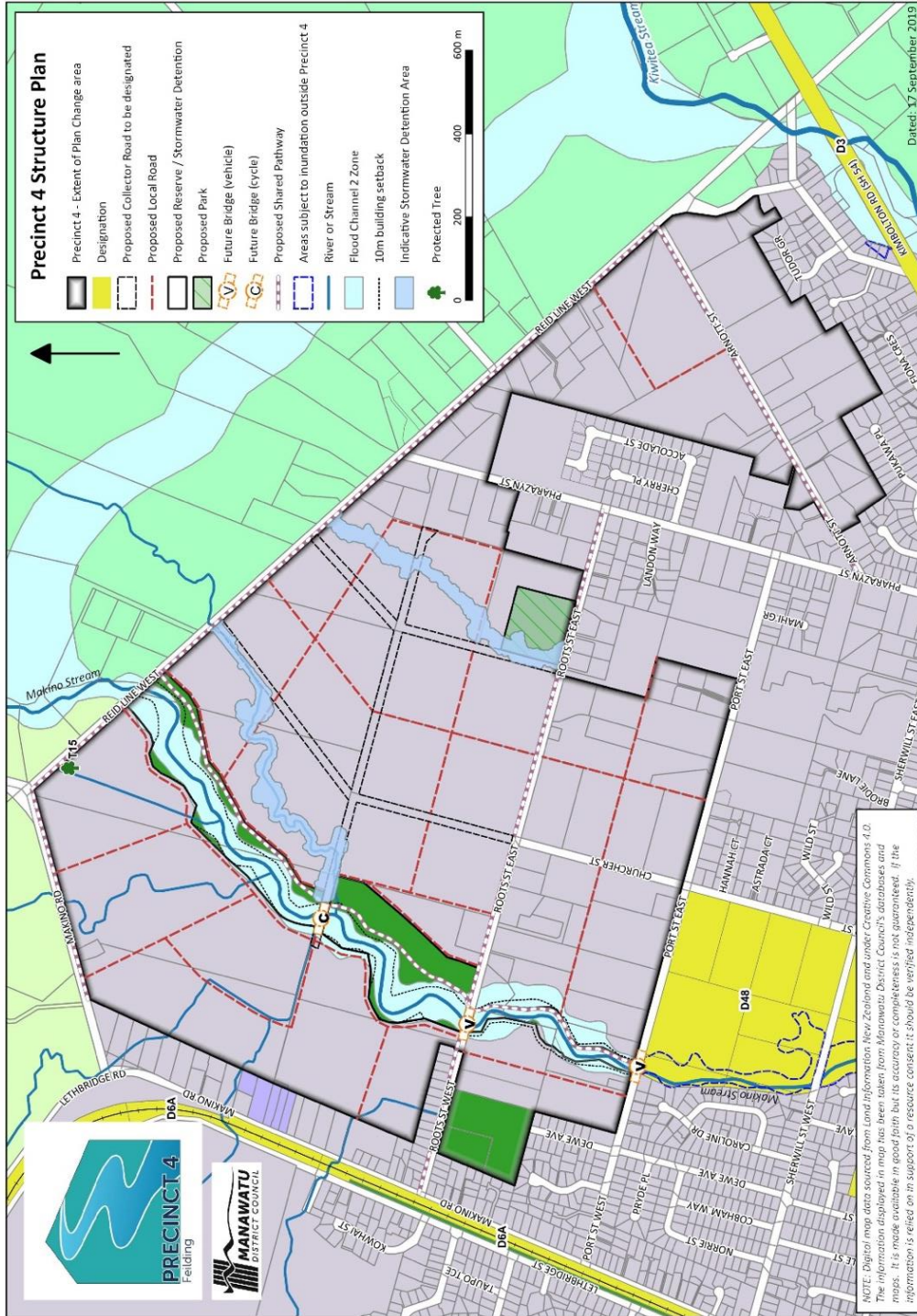
The procedures to be used will include:

- a) Monitoring the degree of diversity in allotment sizes which are created as a result of subdivision.
- b) Assisting with research into the extent of soil compaction, contamination and removal in the District, including the influence of subdivision upon these factors.
- c) Reporting on the areal extent of versatile land which is rezoned to General Residential, Settlement or General Industrial during the planning period.

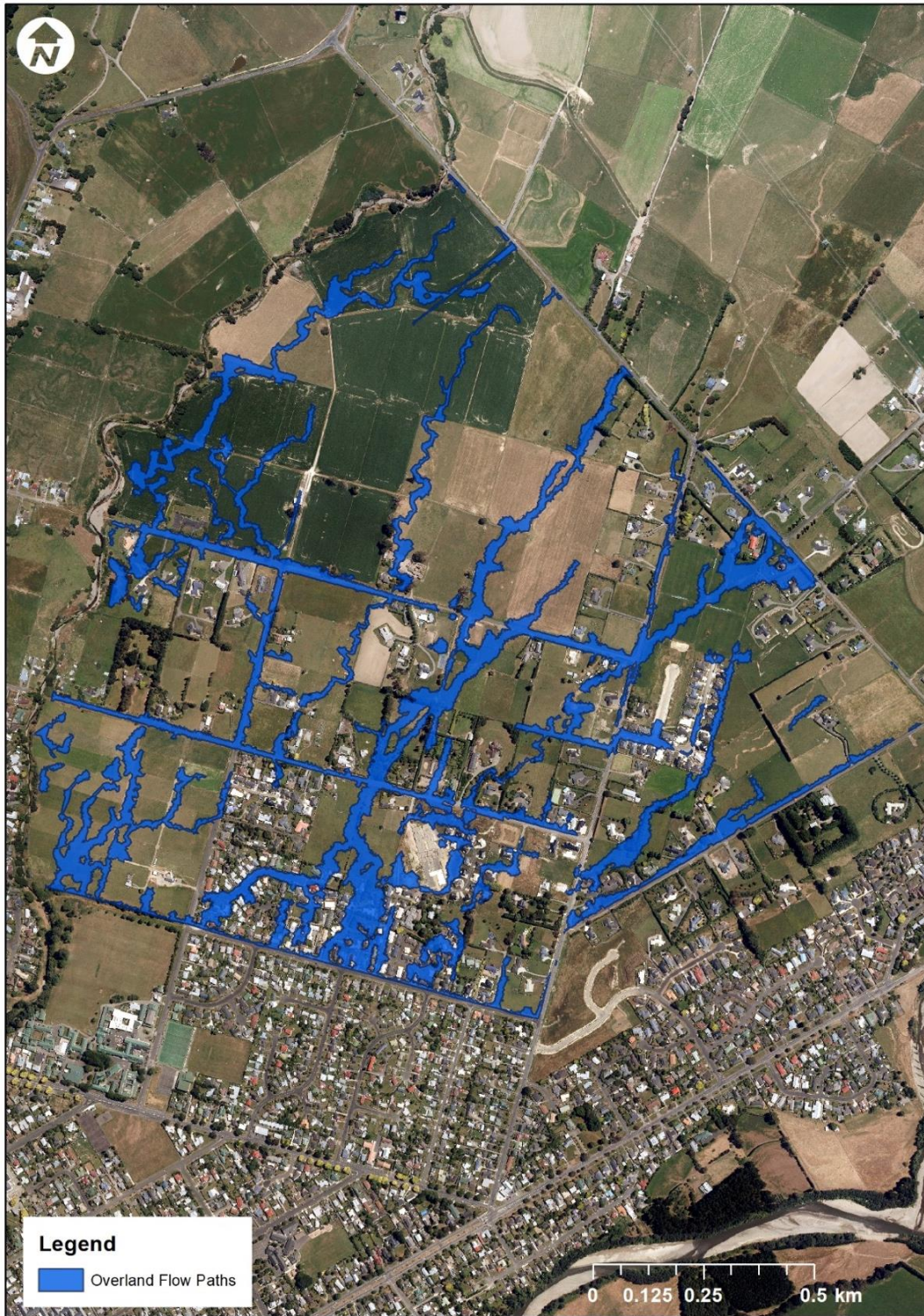
- d) Surveying rural-residential dwellers to find out whether they have sufficient separation from neighbours, and recording levels of complaint from such people about rural activities on other properties.
- e) Undertaking “snapshot” rural landscape assessments for the District when the Plan is made operative, and prior to the review of the Plan.
- f) Working with the *Regional Council* to assess the extent of groundwater contamination from septic tanks in closely-settled rural areas.
- g) Monitoring damage to dwellings during natural hazard events.
- h) Comparing traffic accident records with the database of new subdivisions.
- i) Surveying residents of new urban neighbourhoods, and monitoring the extent to which new urban subdivision proposals are meeting the guidelines for sustainable layouts.
- j) Monitoring damage to *indigenous forest* areas, lakes, streams, the coastal area and listed wetlands where ownership becomes fragmented by subdivision.
- k) Assessing the effectiveness of subdivision consent procedures in avoiding or mitigating the adverse *effects* which this Plan seeks to address, and changing these methods if necessary.
- l) Monitoring whether subdivision consents are issued in compliance with the rules in the Plan and whether any ongoing consent conditions are being complied with.



# SUB-MAE-APP1 – Maewa (Growth Precinct 4) Structure Plan



# SUB-MAE-APP2 – *Maewa (Growth Precinct 4)* Overland Flow Paths



# SUB-APP3 – Structure Plan Growth Precincts 1-3



Figure 18 – Structure Plan Growth Precinct 1



Figure 19 – Structure Plan Growth Precinct 2



Figure 20 – Structure Plan Growth Precinct 3

## SUB-APP4 – Rural Subdivision Nodes



Figure 21 - Feilding locality (Refer SUB-R16 to SUB-R23)

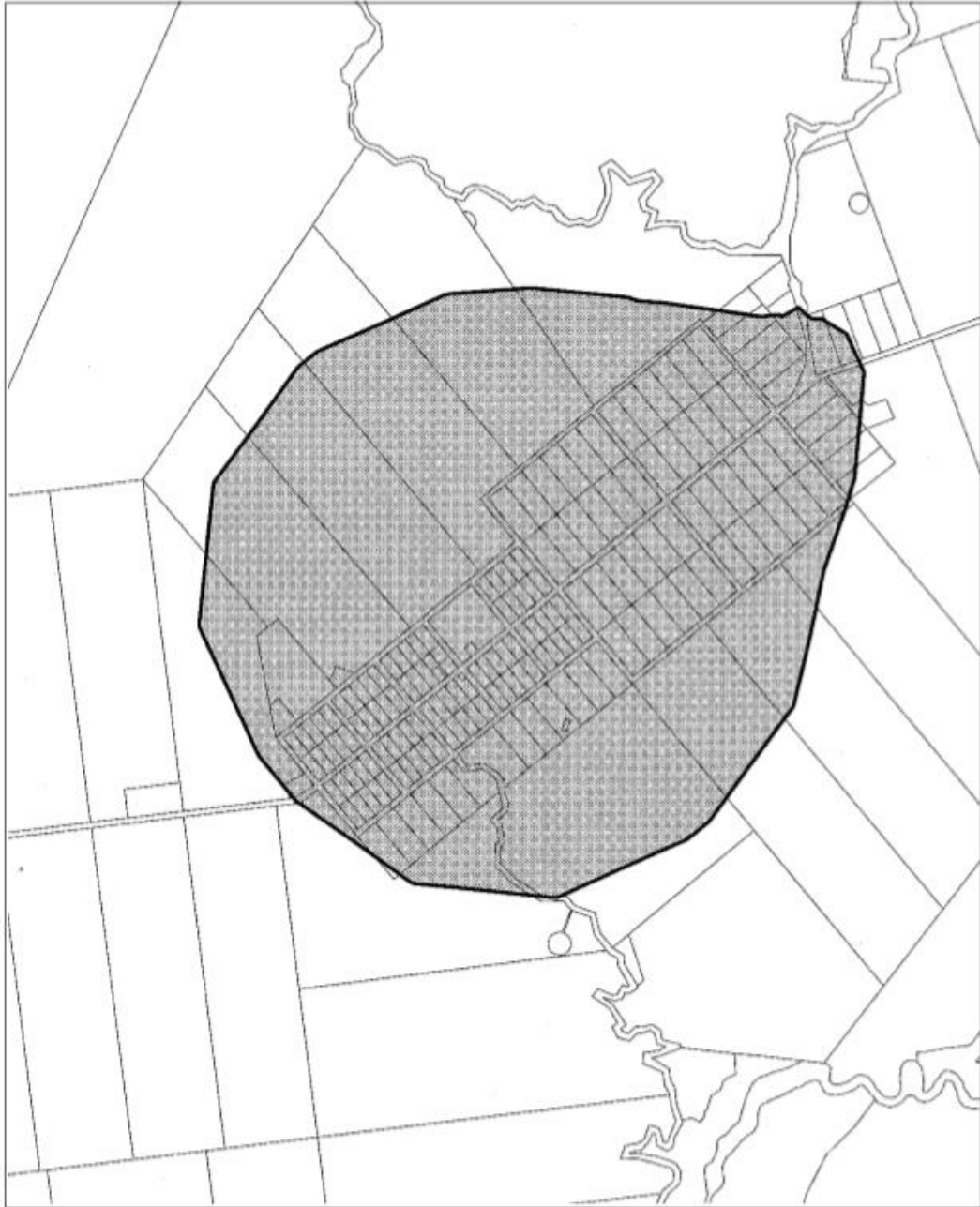


Figure 22 – Rangiwahia Locality (Refer SUB-R16 to SUB-R23)

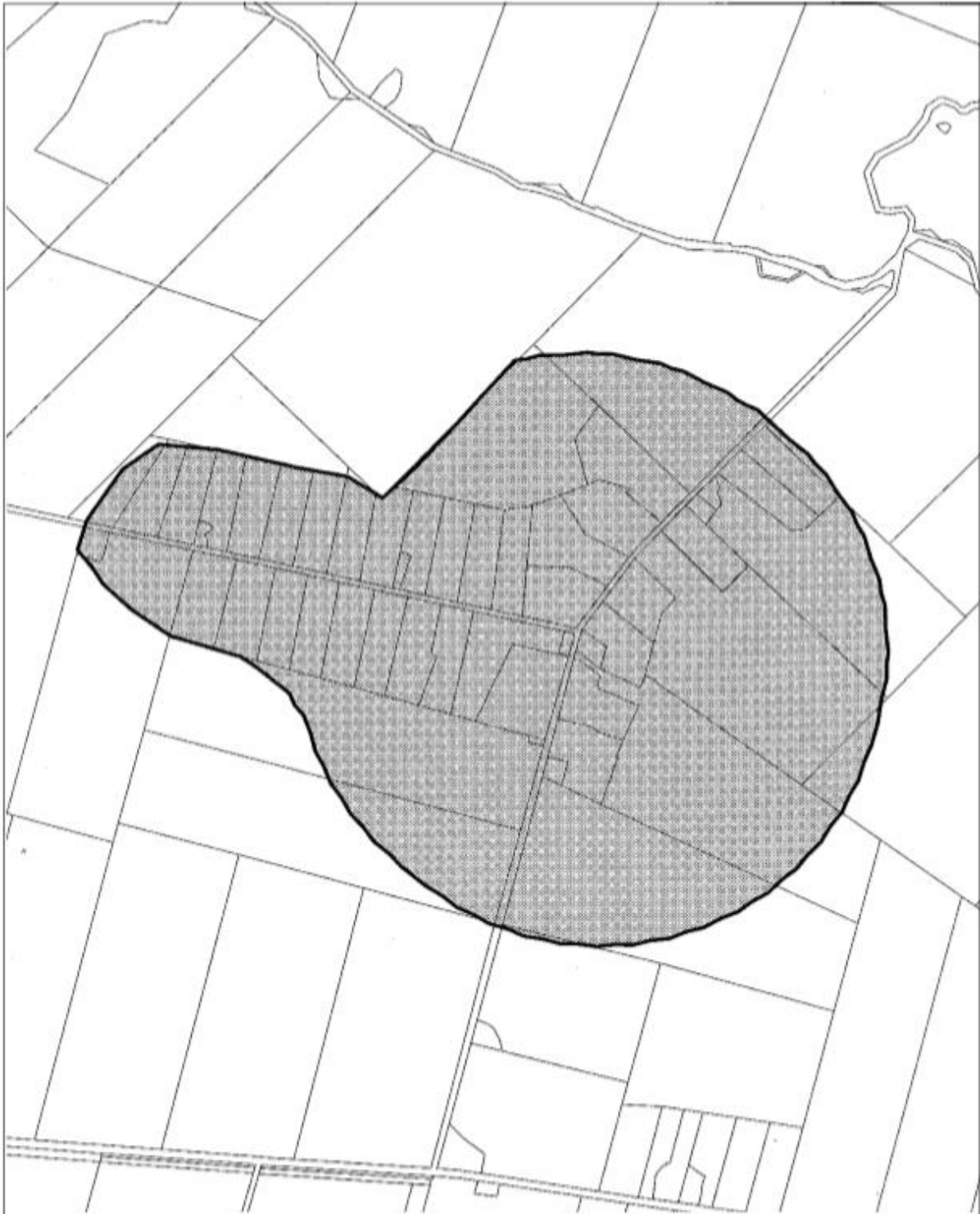
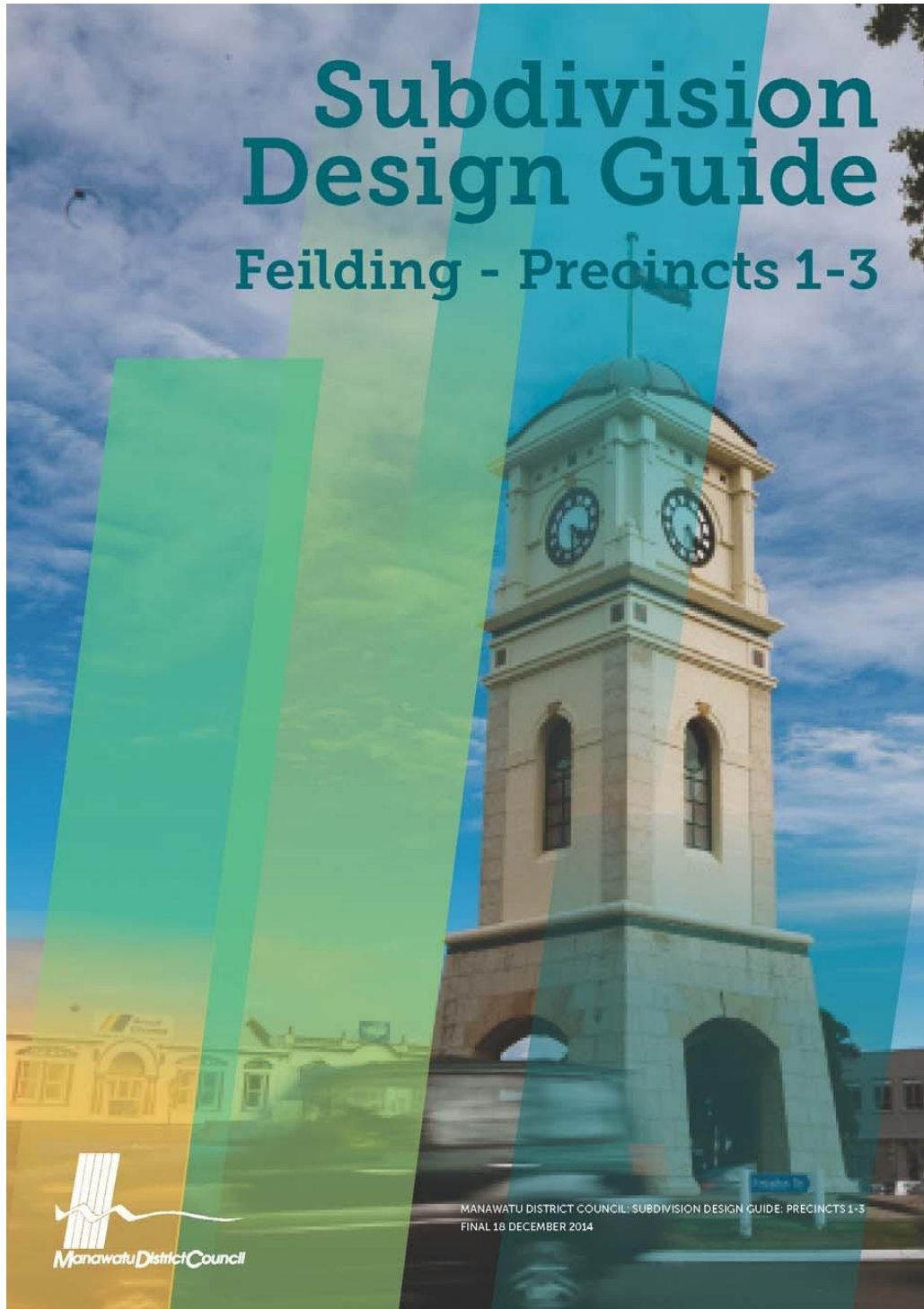


Figure 23 – Hiwinui Locality (Refer SUB-R16 to SUB-R23)



# SUB-APP5 – Subdivision Design Guide

## Feilding Precincts 1-3



# Subdivision Design Guide

## Feilding - Precincts 1-3

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# 01 Introduction

The introduction to the Subdivision Design Guide provides an explanation as to its purpose, relationship to the District Plan and design process.

## Subdivision Design Guide Purpose

The purpose of this guide is to give developers and subdivision designers a design process and guidelines on best practice subdivision and infrastructure design.

This guide sets out best practice design principles and illustrates their application in subdivision and infrastructure planning and design within the Feilding Growth areas known as Precincts 1-3 (refer Diagram 1).

The Design Guide provides a set of outcomes and guidelines to inform landowners, developers, potentially affected people and the wider community about subdivision expectations within the Feilding Growth areas.

## District Plan Relationship

The Design Guide works in conjunction with the rules and standards in the Manawatu District Plan including the Structure Plans that provide a spatial plan for each of the Growth Precincts.

## How it Should be Used

The Design Guide should be used by subdivision designers (be that landowners, surveyors, planners, engineers or others) from the earliest stages of the design process. It will be used by the Council in its assessment and decision making on applications under the District Plan for resource consents for subdivisions.

The Design Guide does not seek to impose rules on new development, or prescribe specific design solutions. Rather, it offers a flexible framework within which developers and surveyors can work. The Design Guide identifies key subdivision design principles to assist the integration of new subdivision development into the surrounding area and to enhance the character of the area.

Developers are encouraged to look beyond the minimum standards and consent requirements of the District Plan and engineering requirements and to explore opportunities that will enhance and create a better urban environment, for now and which will last well into the future.

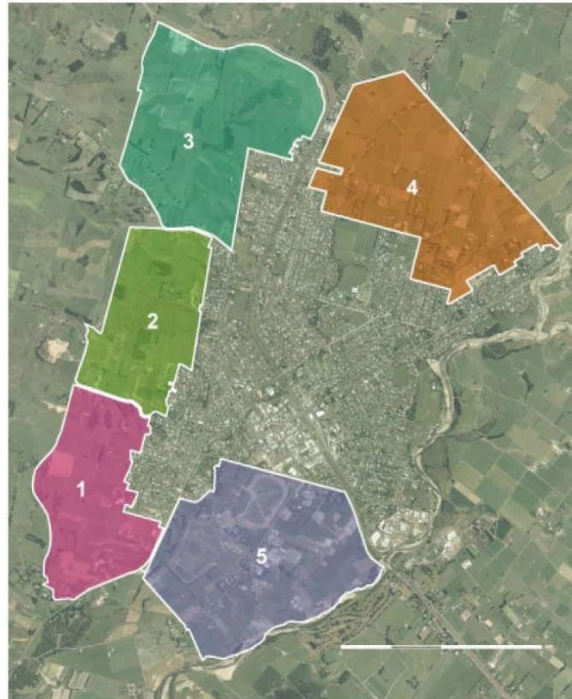


Diagram 1 showing locations and extent of Precincts 1-5

## Design Process

To achieve the best outcomes in terms of design effectiveness and process efficiencies, the applicant and or/their advisers should consider the process described in Diagram 2. Diagram 2 illustrates the best approach to addressing design effectiveness and process efficiencies. Applicants and their advisers should consider this process when considering development.

Each of the process steps is described below as actions – these are not intended to be prescriptive, but are common to best practice subdivision design processes.

### 1. Research

- Be familiar with your site of interest and collect as much information as you can – aerial photos, cadastral plans, titles, any historical information about buildings, previous land uses, hazards such as flooding or slips, large trees, underground or overhead services etc.
- Read the Design Guide to understand what the Council is considering are important in subdivision design. This includes all outcomes, guidelines and landscape advisory notes.
- Look at the District Plan to see what the resource consent requirements are for both subdivision and land uses.
- In the District Plan there is a Structure Plan map. Look at this and locate your property of interest and see what the context is. Also look at any connections that need to be made, slope or open space areas, or buffers for example.
- Consider the professional assistance (eg surveyor, engineer, planner) you may need – each of these have professional institutes and have lists of people in our area to contact.

### 2. Communicate

- Meet with a Council officer to discuss your ideas. It may be that several different officers (eg to help with infrastructure enquiries, or roading) will need to assist. It may also be beneficial to have an initial meeting and then follow-up meetings as ideas evolve.
- Consider your neighbours' interests. Do you know them and what their plans are? There may be mutual benefits to you and your neighbours if there are road connections to be made for example.
- Council may need to process your subdivision application through a publicly notified process. It is usually good practice to at least know your neighbours' interests prior to that process as often there can be ways of adjusting subdivisions to reduce or eliminate any issues.



Diagram 2.

### 3. Assess

- There may be areas of the site that are constrained in some way eg by slope, proximity to incompatible uses, flooding hazard. Assess the site with a view to mapping and addressing these constraints.
- Assess the site and map for opportunities in the same way. There may be good views, flatter land, good connection points for streets or paths and proximity to a natural feature like a river for example.
- Overlay these constraints and opportunities on a map to see where the best locations for development areas are.
- If you are using a professional like a surveyor or planner they should do this with/for you. It is very useful to have this as background to support your subdivision application.

### 4. Design Options

- The position of streets and paths will be influential to the layout for lots and these will also be the likely position for infrastructure. An engineer or surveyor will usually need to be involved in this process.
- It would be advisable to see the Council again with a few options and get officers advice and comments. They will have some thoughts on how well the options satisfy the Design Guide intentions and District Plan rules and Structure Plans.

### 5. Document

- There are specific requirements that need to be satisfied when applying for a resource consent. Council will advise you of their information needs at your first meeting. It is important to follow this advice as Council will continue to ask for further information until it is satisfied that everything is complete. This will take more time and may add to processing costs for your application.
- Include in the documentation the information and research gathered, including photographs.
- The process of documentation is usually undertaken by a professional as they know the Council requirements and can provide an appropriate level of assessment.
- Submit the documentation to Council.

## Outcomes

The outcomes sought by the application of the Design Guide for subdivision in the growth areas around Feilding are set out below. The subdivision and development outcomes sought are benefits in the form of:

- 1** An efficient design and consenting process which derives from early Council engagement and the clarity of Council's expectations as expressed by the guidelines.
- 2** Subdivision design that is responsive to existing on site constraints and opportunities.
- 3** Responsive house lot layouts which recognise the context of the area, or other potential development in the area which could generate conflicts between activities.
- 4** Developments which express the town's rural character and therefore have an identity and character which is unique to Feilding.
- 5** Efficient and cost effective infrastructure provision from clearer 'structure planning' for roads and other services that tie into Council's asset planning.
- 6** Good 'connectivity' within and between new development areas and the existing Feilding township which makes it easy and cost effective for people to move around by driving as well as walking and cycling.
- 7** Streets which are sized to suit the traffic use as well as encouraging walking and cycling. This will result in infrastructure which is cost effective and more attractive to live with and use than large wide unused roads.
- 8** Attractive entrances to the town of Feilding that derive from buffer planting on key entry roads.
- 9** Residential areas where houses all have a street frontage to encourage a healthy and safe community. Also areas where there are multiple opportunities for people to interact and passive surveillance of and from people using the street.
- 10** Safe and good quality open spaces which result from their careful siting, sizing, planting and the passive surveillance gained from adjoining land uses.
- 11** Amenity value of recreation and movement derived from parks, rivers and other open spaces connected as a network.
- 12** Cost effective and sustainable stormwater management through the provision of open stormwater swales in road design and on-site detention of peak flows.
- 13** Future proofing for the needs of future generations through the design of subdivisions to enable increased numbers of houses if required and small local commercial centres when the catchment is sufficient to support them.
- 14** Reduced risk of effects from natural hazards through designing carefully for sloping land areas or areas with flood potential.

## Content

The guidelines for Precincts 1-3 focus on the provision of residential land uses.

The guide as it applies to Precincts 1-3 has sections which address:

- Context
- Street and Path Connections
- Density and Lot Layout
- Open Space and Natural Features
- Natural Hazards and Resilience
- Stormwater Management
- Utility Services Networks

For each of those sections there are up to 10 guidance points. The nature of subdivision design is that all of the points across all of the sections are interrelated and need to be considered together. The guidelines are illustrated with photographs and diagrams which are intended to be indicative only.

## The Feilding Framework Plan

As background to these Design Guidelines and the District Plan provisions as they apply to the growth areas in Precincts 1-3, Council prepared a Feilding Framework Plan. This Framework Plan examined different forms of existing urban development in the town to understand what forms are most effective for the living environments. The Framework Plan also considered future growth projections and set out key principles of good urban design. An intended outcome from these guidelines is the achievement of those principles.

The Framework Plan also provided long term spatial plans for each of the Precincts that give indicative concepts for how the development could ultimately be provided for over time. The Framework Plan provides an indicative concept for testing infrastructure feasibility, potential yield of lot numbers, residential amenity opportunities, suitability of areas for development and for the purposes of costing of infrastructure.

## Development Contributions

In terms of the costs of enabling the development within the Precincts through the provision of infrastructure, Council has determined that this infrastructure will be provided for as part of the Development Contributions Policy. The Structure Plans identify as 'deferred' those parts of the growth areas not considered necessary to meet projected demand over the long term. Services will not be provided to the deferred areas, but Council may consider subdivision applications within those deferred areas if the subdivider makes provision for those services independently of Council.

## 02 Context

The characteristics of the area around the land to be subdivided will vary from place to place. In order for the subdivision to integrate, connect and take advantage of those characteristics and mitigate any potential adverse effects that may arise from development, the design should be consistent with the following guidelines:

- C1 Consider the long-term future of the area around the subdivision and respond in design layout.
- C2 Consider the external and internal opportunities and constraints for the subdivision area as a deliberate part of the subdivision design process.
- C3 Ensure that at the rural interface, the subdivision design recognises the potential for adverse effects from incompatibility between residential amenity or activities and rural activities. For example, by positioning lots to enable an open space and/or planted buffer to be incorporated.
- C4 Consider that Feilding has a rural-town character and the subdivision design can take advantage of this distinctive attribute in the design of roads, or placement of building sites or open spaces. For example, it may be possible to direct roads to gain views towards rural land or house sites to get a rural aspect.
- C5 Consider the natural landforms in the wider landscape in the subdivision design. For example gaining long views out to hills or gaining the benefits of visual and open space amenity of the two rivers.
- C6 Ensure that subdivision design responds to the local climatic conditions. For example, organise lots so that buildings and outside areas can be positioned to have good sunlight access and shelter (be that from trees or building design) from prevailing winds.
- C7 Ensure that connection points for vehicles and walking/cycling and the adjacent areas (existing or zoned for growth) are provided for with the aim of enabling direct movement to local amenities. For example, the town centre.



Example of Framework Plan

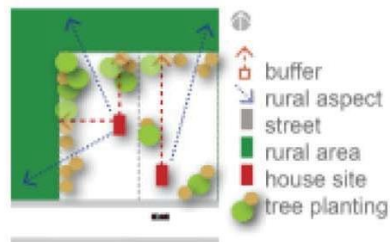


Diagram showing buffer and view opportunities



Example of rural aspect



Example of amenity of rivers



# 03 Street and Path Connections

The streets and path connections within the growth precincts of Feilding are important for moving people and goods between local destinations, and as public spaces that contribute to the visual and social amenity of the place. The Structure Plans identify the main streets (collectors and some local roads) which are intended to ensure connectivity between land in different ownerships. A more detailed street network (with frequent connections) is required to produce well connected residential subdivisions and the neighbourhoods these form. In order for these connections from subdivision to deliver on both function and amenity, the design should be consistent with the following guidelines:

**SP1** Ensure the street network shown on the Structure Plans is provided for in the first instance. Build on this connectivity, making sure street connections are integrated with the existing residential areas and can be extended to deferred zones in the future.

**SP2** Ensure the street type reflects the future anticipated role in the district network and as indicated on the Structure Plans. For example, only part of a street may need to be formed in the initial subdivision, but it may need to be added to in the future.

**SP3** Ensure that streets and paths are sized for the volume of their vehicle or pedestrian use, including vehicle type. Roads and streets that are too wide are an inefficient use of land, which generate larger stormwater runoff drainage needs, uncomfortably proportioned spaces and higher traffic speeds. For example, the collector and local road cross sections provide a generic guide.

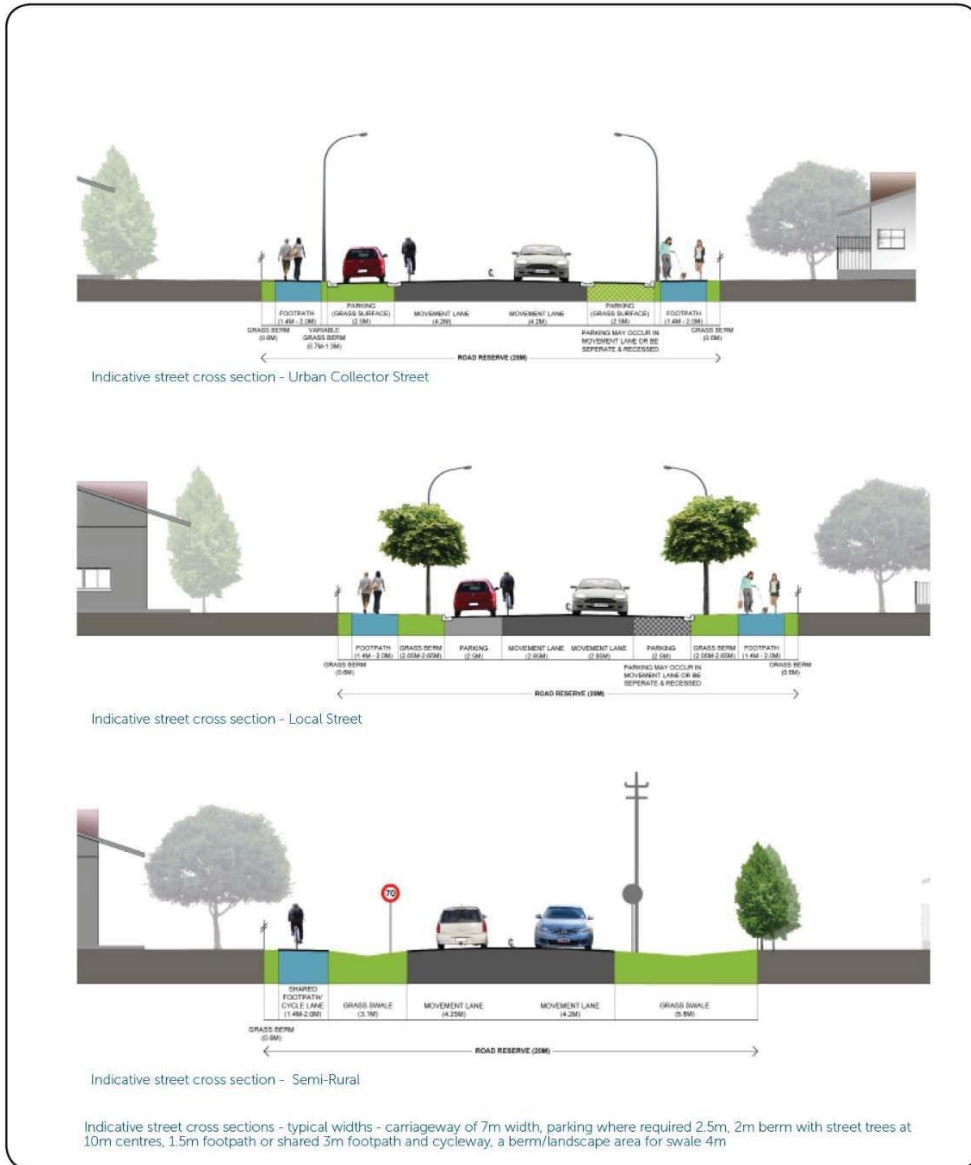
good



poor



The residential good example has the same road reserve width as the poor example. The good example has more amenity - grassed berm and street trees which give it a friendly scale. The poor example is very hard and the road area is over sized for the level of use by vehicles.



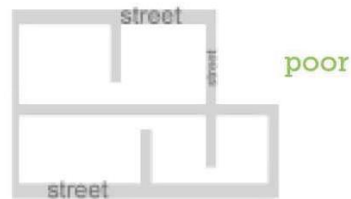
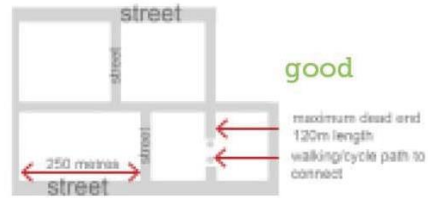
SP4 Ensure that there is good connections between streets. This enables a network that promotes efficient vehicle, walking and cycling movements.

SP5 Ensure that 'dead end streets' or cul-de-sacs are only used where the topography limits the ability to connect streets to others – in Precincts 1-3 there may be these situations. If these dead end streets are proposed for residential areas they should be no longer than 120m in length and preferably have a walking/ cycle path connection from the end to another street.

SP6 Where a public street is not being provided (such as for a small number of lots) and private Right of Way access is being proposed ensure that all private way access is designed to have the same amenity considerations as a street including sufficient width for a path and trees.

SP7 Ensure that streets are designed to include cycling and walking paths with street tree planting in a grassed berm between the road and path. This provides visual amenity and a comfortable separation between activities. For example, the collector and local road cross sections provide a generic guide.

SP8 Ensure that where topographical constraints limit vehicle street connections, that a network of walking and cycle paths of a safe and comfortable size are provided. For example, between hill development areas or from hill development areas down to existing areas below.



Street network diagram - good connectivity and poor connectivity



Example shows path separated from road but still visible to provide passive surveillance

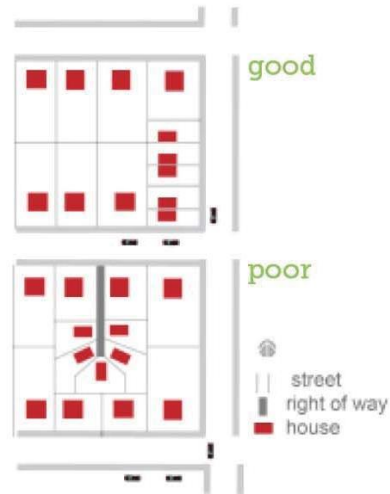


Example shows path connection that can connect between two topographically steep areas

# 04 Density and Lot Layout

The design of subdivisions, including the placement of streets (which forms the shape of blocks) and lots, is highly influential on the resultant quality of development once houses and other buildings are located there. Street layouts are described in Street and Path Connections above. To ensure the resultant density and layout of the development from subdivision delivers a quality place to live, the design should be consistent with the following guidelines:

- DL1 Ensure that all lots have frontage to a street (or a private way) with a width that is sufficient to enable the house to 'front' the street (or private way). No rear lots should be created.
- DL2 Ensure that for a cul-de-sac street, there is a maximum length of 120m and no more than 20 houses accessed from it. This will ensure that long lengths of disconnected 'dead end' streets are not prevalent in the subdivision design.
- DL3 Ensure that lots that have a boundary to an off road path, open space, river, or park are designed for the house to 'front' to that path, open space, stream or park with windows to a main living space. For example, orientating the local street alongside the path, open space, or stream to encourage house orientation towards it.
- DL4 Consider the provision of a range of lot sizes within the subdivision to provide for diversity in the house types and sizes to recognise the range of housing needs within Feilding.
- DL5 Ensure that larger (ie 2000m<sup>2</sup> or larger) lot layouts enable a future house to be positioned on that lot (or a further subdivision of that lot). For example, ensure a wide enough street frontage for a new house in the future.



Lot layout diagram - good example shows frontages for all and a two sizes of lots, poor example shows no frontage to small lots at rear.



Example shows frontage of residential properties to a park opposite - the street between the park and residential lots allows the good frontage.

**DL6** Ensure that the slope of the land, including those areas identified on the Structure Plans as Open Space/Slope Areas, is considered in the lot configuration. It is noted that the identified areas are indicative only (ie there maybe other areas outside those shown) and are typically for areas with a slope of greater than 12 degrees. Development on land with a slope of up to 30 degrees may be possible, but erosion potential increases with slope. The guideline is to provide a house site and access that does not require large scale earthworks in the form of large height cuts. For example, buildings may have pile foundations or lots are provided at larger sizes so houses can avoid being built on steeper sloping land (refer also to the Horizons One Plan provisions).

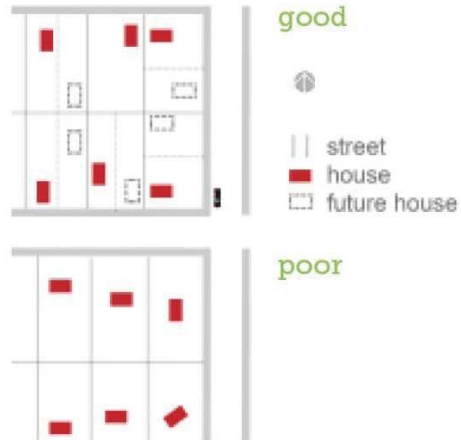


Diagram shows good arrangement of lots and house sites for the larger lot areas to enable later additional density. The poor example shows house sites not well located in terms of providing for future houses.

**DL7** Consider the natural land forms in Precincts 1-3 in the positioning of lot boundaries and roads to avoid straight-line boundary fences or roads that cut unnaturally across the landscape. For example, arrange to follow contours or along gullies.

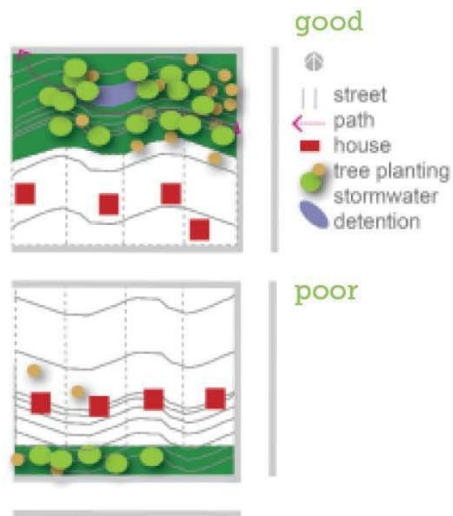


Diagram shows good arrangement of lots away from steeper land, less potential for fence lines cutting across contour, maintenance of vegetated slopes, ability to detain stormwater flow and a walking path link. The poor layout will require significant earthworks to create house locations and access, removes vegetation and will increase stormwater runoff.

# 05 Open Space and Natural Features

Precincts 1-3 include hillside land which is steep sloping and/or has existing vegetation which contributes to the visual amenity backdrop of Feilding. These hillside areas also contribute to the District’s ecological values, as well as stormwater runoff and erosion mitigation.

With the transition of currently rural land to residential uses in the Growth Precincts, there is also a need to consider the range of both formal and informal recreational and social needs of the people that will become resident and work there. In order for the resultant development from subdivision to benefit from the open space and natural features, as well as deliver a quality place to live, the subdivision design should be consistent with the following guidelines:

**ON1** Ensure that public open space is provided for within the growth areas that will provide a local purpose reserve area for residents of the area. The Structure Plans have nominated a location for these in each of the higher density Precincts as required. Other public open space areas may be provided – for example smaller ‘pocket parks’ can add to the amenity of a new residential area provided these parks are well positioned, sized and shaped.



Good example has small street between open space and house front - this allows for low/no fences, provide passive surveillance. The poor example has park at back of house - this leads to fences being built

**ON2** Ensure that public open space is located where it will have surveillance from houses, work places, passing vehicles or walkers/cyclists and is designed to be visually permeable from those streets and paths. For example, ensure that no fences are built, clear stemmed trees are used to form edges to the space to allow people to see out of and into the park, from surrounding streets.

**ON3** Ensure that within the nominated locations for open spaces on the Structure Plans, that the subdivision layout provides for future local centre business (typically small local shops). Also ensure future development does not obscure the open space behind. For example, by the placement of roads to gain shop frontages and allowing for parking on the street.



Structure Plans show locations for larger open spaces and locations for local shops in the future.

ON4 Ensure that open space is provided for in association with river corridors, gullies, and sloping land for conservation purposes, and as appropriate, for public access and recreation purposes. In some circumstances it is recognised that open space will be private.

ON5 Ensure that public open spaces, such as those associated with the river corridors, gullies or on steeper slopes, are formed as a network of spaces that allow for active modes of movement (such as walking, cycling, jogging)

ON6 Ensure that the provision and planting of buffer areas, shown on the Structure Plans, are designed to reflect their role as entry areas to the town and are comprised of large sized street trees that are either underplanted or able to be mown beneath.

ON7 Ensure that the Crime Prevention through Environmental Design (CPTED) principles are provided for in the subdivision design of open spaces. These can be found on Council's website.

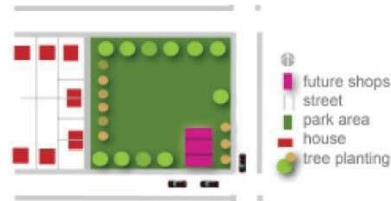


Diagram shows a new neighbourhood park with provision in future for shops. Note the small street at the park edge and smaller lots for houses to face the park



Example shows pathway beside waterbody in natural open space setting (photo Simon Devitt)



Example shows buffer planting of large street trees and underplanting of lower shrubs

## 06 Natural Hazards and Resilience

The growth areas of Feilding are located both on sloping and flat land where two watercourses (Makino Stream and Oroua River) flow. The natural hazards identified include flooding, liquefaction and erosion on the sloping areas. In order for the resultant development from subdivision to respond to these hazards and generate a resilient urban form, the subdivision design should be consistent with the following guidelines:

**NR1** Ensure that the Open Space/Slope Areas, as shown on the Structure Plans, are recognised and provided for in the layout of the subdivision to maintain some sloping land as open space (refer to Open Space and Natural Features Guidelines). This helps to reduce erosion from runoff and peak flows into water courses in flood.

**NR2** Ensure that stormwater runoff from roads, driveways and building roofs is managed (refer to Stormwater Guidelines) to minimise discharge peak flows. For example, the use of detention capacity in open spaces, rainwater tanks for each house lot, and swales in streets (refer to Streets and Path Connections Guidelines).

**NR3** Ensure appropriate consideration is given to Horizons Regional Council flood hazard mapping, Building Act 2004, and any other relevant Regulations and Codes. Additional site investigations in the Precincts may be required to address these matters.

**NR4** Ensure that infrastructure resilience is considered in subdivision design. For example, by interconnected street access, alternative service (eg water or power) provision, and non-mechanised infrastructure systems.



The Structure Plan identify approximately the sloping areas - these are face or gullies. The photograph show a gully which runs out towards the floodplain from the hill Precincts



The Feilding town sits on a flood plain. It is important to plan new development to recognise hazards and to minimise the extent to which new development may exacerbate them



## 07 Stormwater Management

Feilding has known stormwater management and flooding issues. Additional urbanisation can exacerbate this issue. The provision of extensive stormwater infrastructure adds to the cost of development. The use of “low impact” design techniques for stormwater management has the potential to be cost effective and minimise stormwater discharges. The subdivision design should be consistent with the following guidelines:

**SM1** Ensure that subdivision design for stormwater run-off from the subdivision area is considered in the context of the whole Precinct and considered as a network – for example shared detention systems or network linkages with adjacent areas.

**SM2** Ensure that stormwater neutrality is achieved in the subdivision. For example, through provision of a combination of open space areas, detention areas, swales, and other on-site management techniques.

If the following stormwater management techniques are utilised stormwater neutrality may be achieved within a subdivision:

- i) Providing 16m<sup>3</sup> of property level on-site stormwater tank storage which discharges via orifice control to 10m of ‘french’ drain or soakway drain within each property; and
- ii) Roadside open drains to collect road runoff, directed to detention ponds located at subcatchment level to attenuate flows; and
- iii) Providing detention ponds with sufficient capacity to retain the road stormwater runoff.

Alternatively, the developer will need to apply a robust alternative method of stormwater management which limits any increases in flows to the Makino Stream and Oroua River to:

- i) A maximum impermeable area of less than 100m<sup>2</sup> per subdivision (including cumulative stages of the subdivision) contributing to the Makino Stream without mitigation; and
- ii) Pre-development levels in the 1% annual exceedance probability (AEP) plus climate change flood to 2090 to the Oroua River.

**SM3** Ensure that stormwater networks being provided for as part of street design are incorporated into the subdivision design. For example, the collector and local road cross-sections provide a generic guide.

**SM4** Consider the benefit to stream water quality from stormwater management by minimising hard surface areas (such as parking, driveways, roads etc) and the use of swales and detention areas that gives runoff some settlement and filtering time prior to discharge

**SM5** Consider the management of roof rainwater and its potential for collection and use for garden watering.



Examples show the network process - collection of stormwater at source - to rainwater tanks from roofs and to swales from roads, the direction of that runoff to a filtering area and then its discharge finally through a re-vegetated local stream to the receiving water course.

## 08 Utility Services Networks

The Feilding growth precincts are intended to be more urban than rural in character. Being adjacent to the existing urban area the precincts can readily be connected with utility service extensions for waste water, water supply, stormwater and power, telephone and other utilities. Council plans the supply of its utility assets and any upgrading of capacity according to estimated demand and where this occurs in the network. In order for the design of utilities to be efficient and cost effective, the subdivision design should be consistent with the following guidelines:

- US1 Ensure that the utility provision as part of subdivision design coordinates with Council's wider network design provision.
- US2 Ensure the utility provision is planned for on a Precinct wide basis to provide for maximum efficiencies in the cost of implementation. This planning may include larger capacity infrastructure to provide for future connections.
- US3 Ensure that utility provision is for reticulated services including for waste water unless residential lots are larger than 5000m<sup>2</sup> in which case these may be able to be serviced on site (refer to Horizons One Plan).
- US4 Ensure provision of utilities by the subdivider/ developer where growth precincts are proposed to be advanced ahead of Council's asset planning and in the deferred areas of development as shown in Structure Plans.