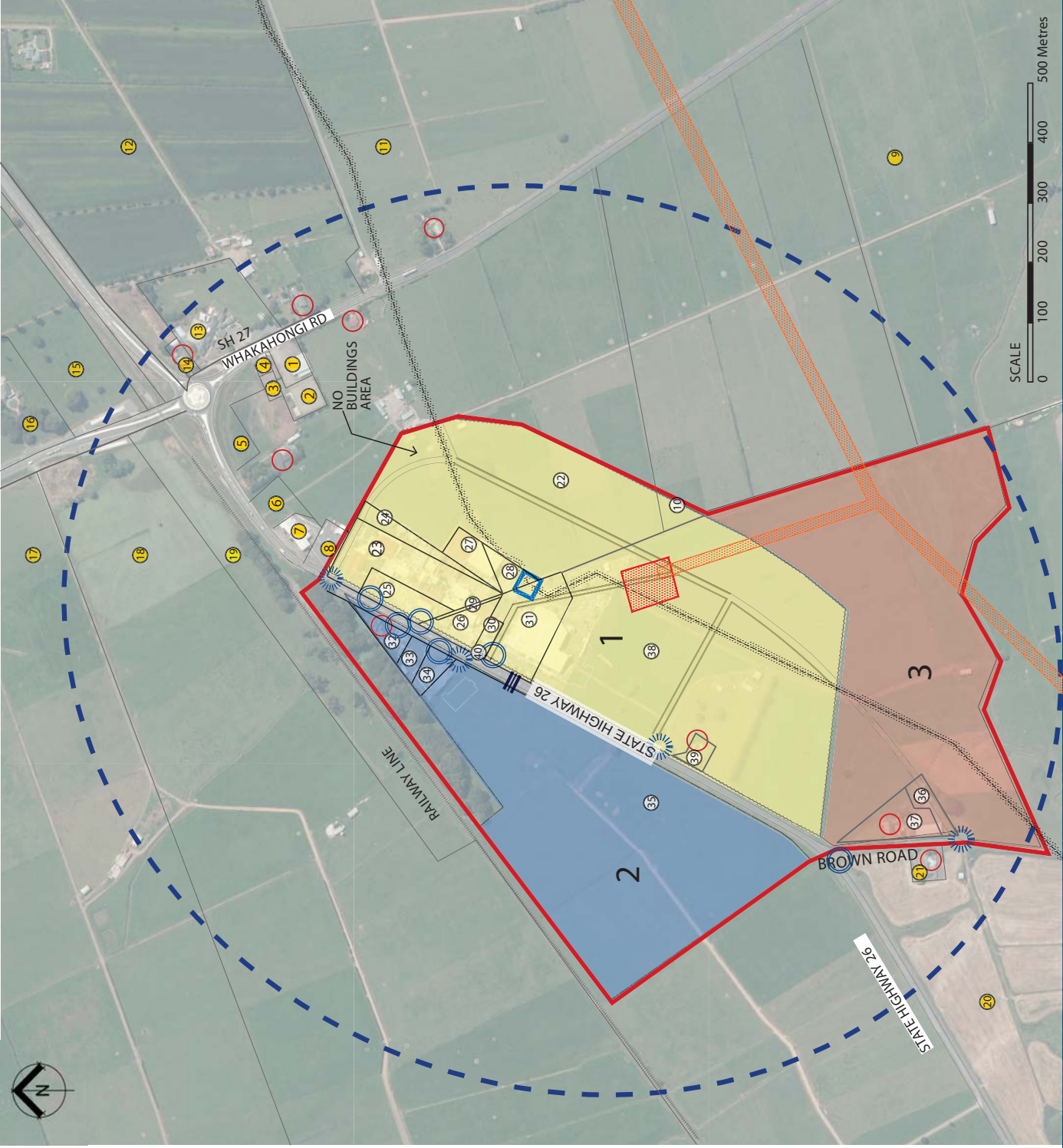


Appendix A

Proposed Development Concept Plan



KEY

Development Area 1 - Manufacturing and Processing Activities

Development Area 2 - Support Activities

Development Area 3 - Wastewater and Stormwater

Noise Emission Control Boundary (NECB)

Property Boundaries

Existing Dwellings inside NECB as at 1 December 2017

DCP Boundary

Powerco

Site

Sub Trans Underground Cable Corridor

Vector Gas

Gas Pipeline & Corridor

Gas Station Site

PROPOSED ACCESS

Existing Access

Possible Future Access

Possible Pedestrian Underpass

LEGAL DESCRIPTION

	Outside of DCP	Inside the DCP
1	Section 21 SO 468539	10 Lot 2 DP 14236*
2	Section 19 SO 468539	22 Section 15 SO 468539*
3	Section 17 SO 468539	23 Lot 1 DP 12404
4	Section 8 SO 468539	24 Lot 1 DPS 11186
5	Section 16 SO 468539	25 Part Tatuahaua 1 Block
6	Section 14 SO 468539	26 Lot 1 DPS 68
7	Lot 1 DPS 8607	27 Lot 1 DPS 16815
8	Part Lot 1 DP 9358	28 Lot 2 DPS 33988
9	Lot 3 DP 14236	29 Part Lot 2 DP 12404
11	Lot 2 DP25518	30 Lot 1 DPS 3109
12	Section 18 SO 468539	31 Lot 1 DPS 33988
13	Pt Lot 4 DP 14236	32 Part Lot 3 DP 12471
14	Lot 1 DPS 38971	33 Lot 2 DPS 41895
15	Part Te Kahia Block	34 Lot 3 DPS 41895
16	Lot 1 DPS 7021	35 Part lot 3 DP 9358
17	Section 11 SO 468539	36 Lot 1 DPS 57607
18	Section 12 SO 468539	37 Lot 2 DPS 57607
19	Section 13 SO 468539	38 Lot 2 DPS 71013
20	Pt lot 5 DP 9358	39 Lot 1 DPS 35994
21	Lot 1 DPS 19332	40 Section 1 SO 414767

*lots located inside DCP and not in
Tatua ownership as at 31/01/18

Note: For underlying zone, refer to Planning Map 25 in the District Plan

1.1 Permitted Activities	
Subject to compliance with the relevant performance standards in Section 2.1, the following activities are permitted:	
1.1.1 All Areas	
(a)	Earthworks associated with any permitted, controlled, restricted discretionary or discretionary activity provided for in the Development Concept Plan
(b)	Storage and handling of any volume of hazardous substances or dangerous goods, including by-products and waste materials, associated with a permitted, controlled, restricted discretionary or discretionary activity provided for in the Development Concept Plan
(c)	Alterations and additions to an existing dwelling, garage or accessory building
(d)	Any activity identified as a permitted activity in the relevant underlying Zone as identified in the District Plan not otherwise provided for in this Development Concept Plan
(e)	Signs
(f)	Temporary construction buildings
1.1.2 Development Area 1	
(a)	Activities, buildings and structures located in Development Area 1 (i.e. east of SH26) of the Development Concept Plan relating to processing milk and other raw materials and ingredients, including: (i) Milk reception facilities and Tanker wash facilities (ii) Parking, existing access and internal roading, loading and manoeuvring areas (iii) Facilities for the packing, storage and distribution of any products produced on site (iv) Storage, processing and disposal of waste material produced onsite (v) Workshops and transport servicing depots (vi) Demolition of buildings and structures (vii) Laboratories and research establishments (viii) Milk Processing Facilities, Powder dryers and Pipebridges and associated infrastructure (ix) Water treatment facilities (x) Energy production including boilers, power plants and co-generation plants (xi) Ancillary activities including offices, canteens, medical rooms, ablution facilities, daycare facilities and/or recreation facilities associated with any permitted activity.
(b)	Pedestrian/goods underpass of SH26. Such an underpass will only be required when the Tātua administrative headquarters are relocated to Development Area 2 or more than 30 carparks for factory staff are provided on the western side of SH26 <i>Note: Written approval from the New Zealand Transport Agency will be required for the activity to be processed as a permitted activity</i>
(c)	Upgrade works to the driveway to the south of the site (RAPID No.3388), including a flush median <i>Note: Written approval from the New Zealand Transport Agency will be required for the activity to be processed as a permitted activity</i>
1.1.3 Development Area 2	
(a)	Activities, buildings and structures located in Development Area 2 (i.e. west of SH26) of the Development Concept Plan relating to administration and commercial activities subsidiary to the processing of milk and production of milk related products, including: (i) Parking, existing access and internal roading, loading and manoeuvring areas (ii) Ancillary activities including offices, canteens, medical rooms, ablution facilities, daycare facilities and recreation facilities associated with any permitted activity. (iii) Demolition of buildings and structures (iv) Commercial activities and structures associated with an on-site café and agribusiness activity (v) Domestic wastewater treatment facilities

(vi) Water treatment facilities	<i>For the purpose of this rule, agribusiness is defined as "an activity involved in the wholesale, retail and distribution of farm equipment and supplies, and / or the storage, and distribution of farm commodities"</i>
(b)	Irrigation spraying of wastewater produced from on-site processing and manufacturing activities.
(c)	Activities and structures relating to the loading and unloading of goods for rail transport including rail yards and rail sidings.
(d)	Pedestrian/goods underpass of SH26. Such an underpass will only be required when the Tātua administrative headquarters is relocated onto Development Area 2 or more than 10 carparks for factory staff are provided on the western side of SH26. <i>Note: Written approval from the New Zealand Transport Agency will be required for the activity to be processed as a permitted activity</i>
1.1.4 Development Area 3	
(a)	Activities, buildings and structures located in Development Area 3 (i.e. the south east area of the Development Concept Plan) relating to the treatment of wastewater and stormwater produced from on-site processing and manufacturing activities, including: (i) Wastewater treatment facilities (ii) Stormwater ponds and/or facilities (iii) Irrigation spraying of wastewater
1.2 Controlled Activities	
(a)	Any activity identified as a controlled activity in the relevant underlying Zone as identified in the District Plan not otherwise provided for in this Development Concept Plan <i>Note: Control is reserved to the matters stipulated in the underlying Zone.</i>
1.3 Restricted Discretionary Activities	
(a)	Any new vehicle access constructed onto a road in accordance with the location shown on this Development Concept Plan <i>Note: Discretion is restricted to traffic related effects. The relevant road controlling authority shall be considered the only potentially affected party.</i>
(b)	Any permitted activity which is provided for in the Development Concept Plan and does not meet the relevant performance standards in Section 2.1 <i>Note: Discretion is restricted to the matters of non-compliance.</i>
(c)	Any activity identified as a restricted discretionary activity in the relevant underlying Zone as identified in the District Plan not otherwise provided for in this Development Concept Plan <i>Note: Discretion is restricted to the matters stipulated in the underlying Zone.</i>
1.4 Discretionary Activities	
(a)	Any activity not provided for as a permitted, controlled, or restricted discretionary activity in the Development Concept Plan but can meet the relevant performance standards in section 2.1
(b)	Any activity identified as a discretionary activity in the relevant underlying Zone as identified in the District Plan not otherwise provided for in this Development Concept Plan

1.1 Non-complying Activities

(a)	Any activity not provided for as a permitted, controlled, restricted discretionary or discretionary activity in the Development Concept Plan and cannot meet the relevant performance standards in section 2.1
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2. Performance Standards

2.1 Performance Standards for Permitted Activities

(a) Building height	The maximum height of any building and / or structure shall be no greater than 8m unless otherwise identified on the Development Concept Plan, except that: (i) Up to 2 Boiler stacks per boiler and 4 exhaust vents per dryer (for up to 4 dryers) may exceed the height limit by up to 5m
(b) Setbacks	All buildings and structures shall be set back a minimum of 10 metres from the site boundary except where otherwise shown on sheet 6 of the Development Concept Plan <i>Note: Setbacks will not apply for any proposed signage not requiring a building consent or any proposed underground utility relating to infrastructure for roading, rail, the management of wastewater, stormwater or the supply of water</i> <i>Note: Parties seeking to plan or undertake works in the Sub-Transmission Underground Cable Corridor or in close proximity to overhead sub-transmission lines should contact Powerco directly to obtain further and more accurate information before making such plans and/or commencing works.</i> <i>No works can be undertaken in the Gas Pipeline Corridor without obtaining a work permit from Vector Gas Limited (a minimum of two working days' notice is required)</i>
(c) Building Colour	(i) Any structure/building that is in the nature of a silo, external piping, or other milk processing equipment shall retain its natural metallic finish. (ii) Any building/ structure that is not in the nature of a silo, external piping, or other milk processing equipment shall be finished in the following colours, excluding trim, fittings, guttering, detailing and signage: a) Tātua colours – off white, with red roofing and trim
(d) Building envelope for existing dwellings	(i) Maximum height: 10m (ii) Front yard: No extension or addition to the existing dwelling, garage or accessory building shall occur forward of the current building line. (iii) All other yards 10m
(e) Temporary construction buildings	Temporary construction buildings must only be used in conjunction with, and for the duration of, a construction project located and within the DCP boundaries. For the avoidance of doubt, temporary construction buildings must not be used as dwellings or for residential activities
(f) Operational Noise	(i) That the corrected noise level measured at the Noise Emission Control Boundary shall not exceed: • Monday to Sunday including Public Holidays (7 am to 10 pm) 50 dB LAeq, • All other times 45 dB LAeq and 75 dB L _{Amax} . (ii) The performance standard in (i) does not apply within the notional boundary of any rural dwellings within the following Lots • Section 15 SO 468539 (3458 SH26 and 4528 SH27) • Section 18 SO 468539 (4521 SH27) • Lot 2 DP 25518 (4543 SH27) • Lot 1 DPS 7021 (4479 SH27) • Lot 1 DPS 19332 (16 Brown Road)

2.1 Performance Standards for Permitted Activities

	- Lot 2 DPS 57607 (11 Brown Road) - Lot 1 DPS 35994 (3386 SH26) - Part Lot 3 DP 12471 (34335 SH26) - Lot 1 DPS 38971 (4507 SH27) - Or within the notional boundary of any rural dwelling established post 1 December 2017 within the Noise Emission Control Boundary
	(iii) For any existing dwelling not currently owned by the Tātua Co-operative Dairy Company Ltd ("Tātua"), that is within the NECB, as identified on Sheet 1, where requested by the dwelling owner, Tātua shall, undertake an assessment of whether noise generated by Tātua would result in levels exceeding 30dB L_{Aeq} within any bedroom or 40dB L_{Aeq} within any other habitable room. In the event that this assessment indicates that these noise levels are exceeded as a result of noise generated by Tātua then Tātua shall, within 12 months of the date of approval of the DCP, offer the owner to upgrade their dwelling to achieve a level of 30dB L_{Aeq} in any bedroom and 40dB L_{Aeq} in any other habitable room. Where ventilating windows and/or doors need to be closed to achieve the internal noise level, ventilation shall be provided to satisfy the minimum requirements of Section G4 of the Building Code. (iv) Any new dwelling or extension to any bedroom or other habitable room in an existing dwelling constructed within the NECB shall be designed to achieve a level of 30dB L_{Aeq} in any bedroom and 40dB L_{Aeq} in any other habitable room. (v) The noise level of any ventilation system installed to provide for a residential dwelling shall not exceed 30dB L_{Aeq} when operating at the design speed as measured within 2m of the unit. (vi) That, all noise levels shall be measured and assessed in accordance with the requirements of New Zealand Standard NZS 6801:2008 "Acoustics – Measurement of Environmental Sound" and New Zealand Standard NZS 6802:2008 "Acoustics – Environmental Noise"
(g) Construction noise	All construction noise shall comply with the relevant noise levels stated in NZS 6803: 1999, section 7.2 'Recommended numerical Limits for construction noise' and shall be measured and assessed in accordance with NZS 6803: 1999 'Acoustics – Construction Noise'
(h) Signage	(i) All signage is to relate to the activity on site and shall meet the following requirements - A total of 20m² along the eastern road frontage of SH26. - A total of 16m² along the western road frontage of SH26 (ii) a freestanding sign shall have a maximum height no greater than the permitted building height for the area, including flagpoles; and (iii) signs shall not be internally illuminated, flashing, incorporate fluorescent or moving materials such as flags or be painted in colours that are used on traffic signals; and (iv) all signs shall be placed so that, where attached to a building, no part protrudes above the eaves or parapet, or where attached to a fence or wall, no part protrudes above the top of the fence or wall; and (v) signs shall be placed so that they do not block sight distances at entrances; and (vi) signs shall be removed where the goods, services or events to which the sign relates are no longer available, or no longer relevant to the site; and (vii) safety signs necessary to meet legislative requirements are not subject to a maximum total area. <i>Note: These rules shall only apply to any signage that is visible beyond the boundaries of the site.</i>

2.1 Performance Standards for Permitted Activities		
(i) Irrigation spraying of wastewater produced form on-site processing and manufacturing activities	The following minimum buffer distances shall be maintained at all times for the irrigation of process wastewater and dairy liquids: (i) At least 10 metres from all flowing water courses, including farm drains; and (ii) At least 10 metres from all external boundaries and roads; and (iii) At least 150 metres from any existing residence, and (iv) At least 300 metres from a school, marae, hall or public reserve. Distances to external boundaries and residences may be reduced with the prior written approval of the owner and occupier of that residence or property.	
	Hazardous substances shall be stored, handled and managed in accordance with the relevant controls documented under the Hazardous Substances and New Organisms Act 1996 (HSNO)	
(j) Hazardous substances	Vibration shall not exceed the following average levels: (i) Within 20m of any dwelling in the Rural zone:	
(k) Vibration		
	Time	Average weighted vibration level (Wb or Wd)
	Monday to Saturday: 7.00am to 6.00pm (0700 to 1800) At all other times	45 mm/s ² 15 mm/s ²
	The weighted vibration levels Wb and Wd shall be measured according to BS6841:1987. The average vibration shall be measured over a time period not less than 60 seconds and not longer than 30 minutes. The vibration shall be measured at any point where it is likely to affect the comfort or amenity of persons occupying an adjacent site	
(l) Lighting and glare	(i) At no time between 7.00am and 10.00pm shall any outdoor lighting be used in a manner that causes an added illuminance in excess of 125 lux, measured horizontally or vertically at the boundary of any non-Industrial zoned site adjoining	
	(ii) At no time between the hours of 10.00pm and 7.00am shall any outdoor lighting be used in a manner that causes: • An added illuminance in excess of 10 lux measured horizontally or vertically at any window of an adjoining building outside of the DCP • An added illuminance in excess of 20 lux measured horizontally or vertically at any point along any non-Industrial zone boundary Where measurement of any added illuminance cannot be made because any person refuses to turn off outdoor lighting, measurements may be made in locations of a similar nature which are not affected by such outdoor lighting	
	(iii) The outdoor lighting on any site adjoining any non-Industrial zoned site shall be so selected, located, aimed, adjusted and screened as to ensure that glare resulting from the lighting does not cause a significant level of discomfort to any occupants of the non-Industrial site	
	(v) The exterior of any structure shall not utilise reflective material or unpainted surfaces that could cause nuisance glare	
	For the purposes of this rule, the discomfort level is defined as one that can be detected or determined to be a nuisance by an appropriately experienced Council Officer who is able to apply the frequency, intensity, duration and offensiveness to their observations and who is able to report on these accurately	
(m) Emissions to Air (Odour and Dust)	(i) There shall be no contaminants or particulate matter that has adverse effects on human health or causes objectionable effects beyond the boundary of the site	
	(ii) Activities shall operate so as to ensure that dust generation is minimised. These activities shall be undertaken in a manner so as to avoid any	

2.1 Performance Standards for Permitted Activities	
	adverse effects associated with dust and particulate emissions beyond the boundary of the site of emission
For the purpose of this rule an emission to air nuisance is defined as one that can be detected and determined to be a nuisance by three observers who are neutral to the issue, able to apply the frequency, intensity, duration and offensiveness to their observations and who are able to report these accurately; or an appropriately experienced Council or Regional Council Officer after having considered objectives, policies and guidelines of assessment as provided in the relevant sections of a Regional Air Plan or consideration of the provisions in Section 17 and Part XII of the RMA	
(n) Earthworks	All earthworks to be managed in accordance with the Waikato Regional Plan and the Erosion and sediment control guidelines for soil disturbing activities
(o) Landscaping	(i) Landscape planting, including retention of the existing oaks, shall be located in general accordance with the Development Concept Plan and is to be completed in accordance with the staging specified in the Development Concept Plan (Attachment B: sheets 7-11). i.e. Development within a building area requires planting to be undertaken in the corresponding planting area (ii) Prior to the construction of new buildings/structures with a gross floor area (GFA) greater than 200m² or 8m in height, outside the existing DCP shown on Sheet 7, a landscape plan shall be submitted to the Matamata-Piako District Council as per (i) above. When considering the landscape plan under (iii), Council should consider whether the level of detail gives effects to the plan in the DCP (iii) The landscape plan shall detail the location of the planting, the plant species, the proposed timing of planting, the height and spacing of plants at the time of planting, and the maintenance regime of the landscape planting including soil and moisture retention, irrigation, access and the replacement of any dead, diseased or dying plants (iv) Planting in all staging areas must be established in the nearest planting season immediately following completion of construction of any new buildings within the designated 'Building Area'
Note: This rule shall not apply to any planting for the purposes of enhancement within the Development Concept Plan which is additional to the planting shown on the Development Concept Plan	
(p) Carparking and Formation standards	(i) A minimum of 1 space per Full Time Equivalent (FTE) employee shall be provided on the site in-association with permitted activities.-Provision shall be made for staff parking at a rate equivalent to the staff requirement for each consented increase (ii) 9 visitor parking spaces shall be provided at all times (iii) 1 parking space shall be provided for a courier van at all times (iv) All visitor parking and loading spaces shall be clearly identified (v) All parking and loading spaces, access and manoeuvring areas shall be designed, formed and constructed in accordance with the MPDC Development Manual 2010; and (vi) All internal roading and parking areas shall be formed with an all-weather surface designed to minimise dust and noise nuisance, and provide for the safe and efficient disposal of stormwater (vii) Manoeuvring areas shall be provided at a standard adequate to accommodate a 99.8 percentile car or a 99 percentile truck in order to ensure that all vehicles have the ability to access any adjoining road in a forward direction after no more than a three point turning manoeuvre on the site (viii) All required carparks shall be marked or delineated

2.1 Performance Standards for Permitted Activities

(q) Pedestrian/ goods underpass	When the Tātua administrative headquarters is relocated to Development Area 2, or more than 30 carparks for factory staff are provided on the western side of SH26, a pedestrian/goods underpass shall be provided as shown on the DCP												
(r) Unloading	No more than two tankers are to queue on State Highway 26 to unload at any one point												
(s) Upgrade works to access at Rapid No. 3388 SH26	Extension of the flush median on SH26 past the driveway at RAPID No.3388, will be required prior to this driveway being used for more than 10 right turning movements per day												
(t) Construction traffic management plan	A Construction Traffic Management Plan (CTMP) will be required to be submitted to Council prior to all new construction generating more than 25 arrivals (50 movements). This plan will include details on construction traffic volumes, traffic mix and hours of operation and shall outline the measures to be implemented to avoid, remedy, or mitigate any adverse effects on traffic safety and efficiency. The recommendations of the CMTP must be implemented for the duration of the construction activity												
(u) Access	Vehicle access points shall be designed, formed and constructed to the standard required by the NZ Transport Agency as specified in the MPDC Development Manual 2010, or such standards as agreed with the NZ Transport Agency												
(v) Permitted Gate Movement Threshold	The daily traffic movements based on the seven day average trip generation of all gates shall not exceed: (i) 550 during the peak hours and (ii) 2,100 in total This is based on the following table. <table><tr><th colspan="3">Vehicle Movements</th></tr><tr><th>Existing (withD3 Dryer)</th><th>Capacity</th><th>Permitted Additional</th></tr><tr><td>Peak hours (combined)</td><td>150</td><td>550</td></tr><tr><td>Daily</td><td>500</td><td>2100</td></tr></table> "Vehicle movement" is defined as a movement either to, or from the site so that one vehicle accessing and leaving the site is deemed to generate two vehicle movements.	Vehicle Movements			Existing (withD3 Dryer)	Capacity	Permitted Additional	Peak hours (combined)	150	550	Daily	500	2100
Vehicle Movements													
Existing (withD3 Dryer)	Capacity	Permitted Additional											
Peak hours (combined)	150	550											
Daily	500	2100											
(w)Offices and commercial activities	(i) Ancillary activities including offices, canteens, medical rooms, ablution facilities, daycare facilities and recreation facilities associated with the processing of milk and production of milk related products are not subject to a size limit. (ii) Commercial activities and structures subsidiary to activities on the site including the provision of an on-site café and agribusiness activity shall have a combined gross floor area (GFA) of no greater than 2,000m² GFA.												

3.1 Matters of control/ discretion

Controlled Activities

For controlled activities Council has reserved control over the matters as outlined in the District Plan, for the underlying Zone as shown on the Planning Maps.

Restricted Discretionary activities

For restricted discretionary activities the Council has restricted its discretion to the matters as outlined in the table below. Resource consent conditions can only be imposed over the matters to which discretion has been restricted.

Discretionary activities

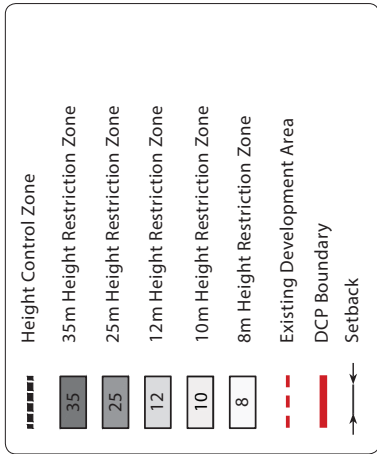
In considering discretionary activities, the Council shall, unless otherwise stated, have regard to any or all of the following matters, as appropriate. The criteria are only a guide to the matters that the Council will consider and shall not restrict the Council's discretionary powers.

The following are matters of discretion.

Matters of discretion	
General:	(a) Suitability of the activity with regard to its location as shown on the DCP (b) Extent to which activity complies with the Performance Standards within Section 2.1 of the DCP.
Bulk and Location	(a) Any effects of an increase in building height or a reduced setback from internal and road boundaries on the rural amenity values in the locality and the reasonable use of adjoining land. (b) The individual and cumulative effect of additional building height on the landscape values in the locality of the Development Concept Plan. (c) The form and function of the over-height structure. (d) The material and colour finish of the over-height structure. (e) Proposed signs; (f) The intensity of lighting when viewed from a distance. (g) The effectiveness of any mitigation.
Landscape	(a) The suitability of species, density and height of plants at the time of planting; (b) The effectiveness of the proposed landscape planting to mitigate the adverse effects of proposed buildings and activities on landscape values in the locality of the Development Concept Plan. (c) Maintenance of planting and ability of planting to establish and grow, including provision for access, methods of soil retention and irrigation. (d) The use of landform to assist in mitigation of landscape effects.
Colour	(a) Alternative colour finishes and their effectiveness to address the visibility of the proposed structure individually and cumulatively within the Height Control Zone within the Development Concept Plan.
Traffic	(a) The impacts on the safe and efficient operation of the transportation system including, but not limited to: - Impacts on the road network and the efficient operation of local intersections; and - Infrastructure provision, including works needed to maintain the safety and efficiency of the transportation system such as any upgrades necessary to pedestrian and cycle facilities, intersections, pavements and structures on the system affected by the proposed activity.
Noise and Vibration	(a) Ensure that existing activities on neighbouring properties in the locality are not adversely affected by unreasonable noise from the proposal. In determining appropriate noise levels, Council shall have regard to the noise environment of the locality in which it is proposed to site the facility and the practicality of reducing noise from the utility components;
Odour	(a) The effect of the probability of offensive odours from the operation of facilities and in particular the operation of waste treatment and disposal facilities and solid waste management disposal sites.



KEY



KEY

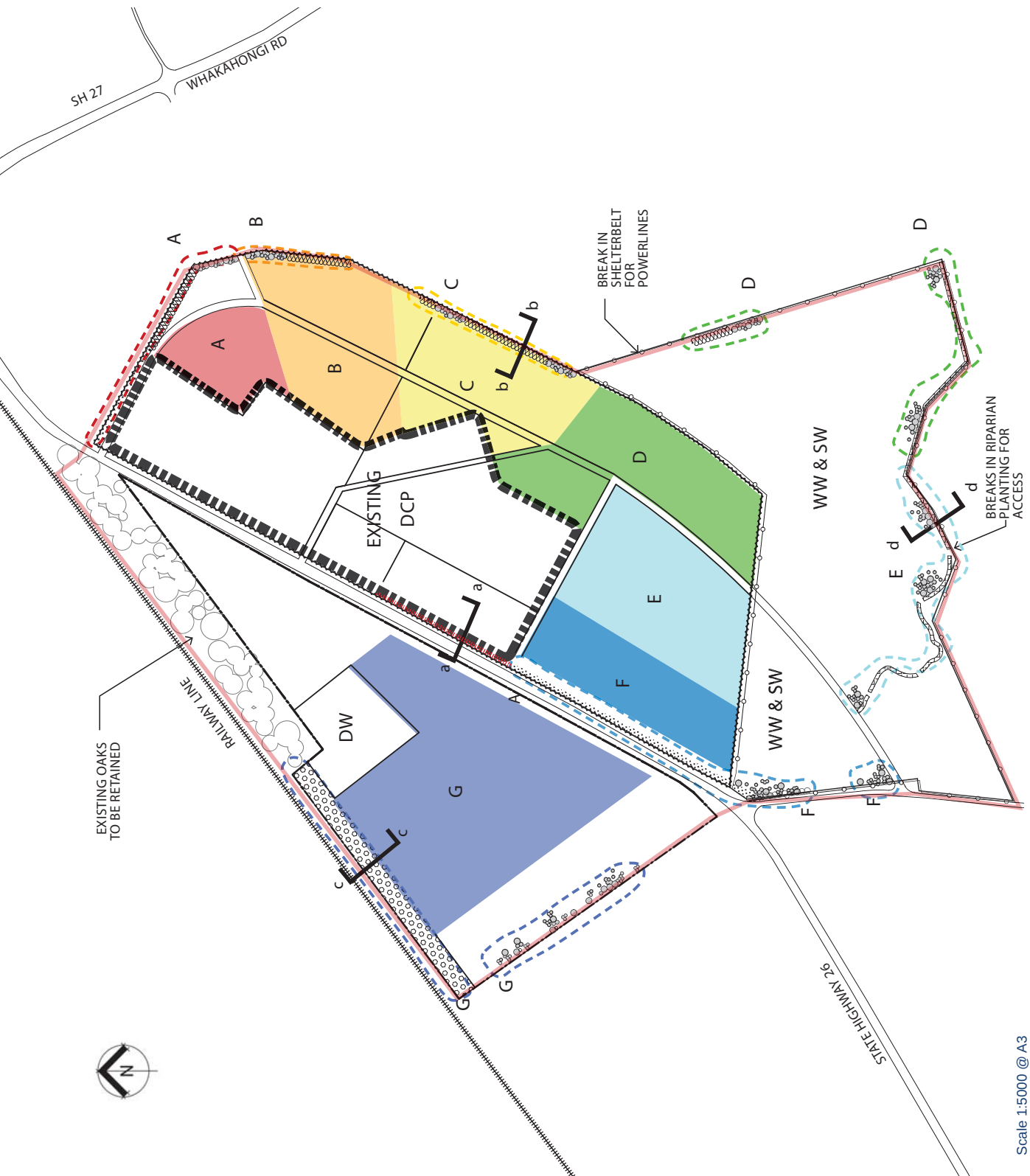
A	Building Area A	A	Planting Area A
B	Building Area B	B	Planting Area B
C	Building Area C	C	Planting Area C
D	Building Area D	D	Planting Area D
E	Building Area E	E or F	Planting Area E/F
F	Building Area F	F	Planting Area F
G	Building Area G	G	Planting Area G
DCP Boundary			

PROPOSED PLANTING

aa	Amenity Planting
bb	Shelterbelt Planting
cc	Northern Boundary Grove
dd	Riparian Planting
dd	Woodlot Planting
x	Cross sections (see Attachment C)

NOTE:

- Planting to be implemented as per Staging Plan.
- Planting in all staging areas must be established in the nearest planting season immediately following completion of construction of any new buildings within the designated 'building area'.
- See cross-sections for further detail on width of planting and indicative landscape outcomes in Attachment C.



DW Domestic wastewater treatment area

WW & SW Wastewater and stormwater treatment area (to remain in pasture except where required for tanks/structures/processing facilities for the purposes of wastewater and stormwater treatment).

Scale 1:5000 @ A3



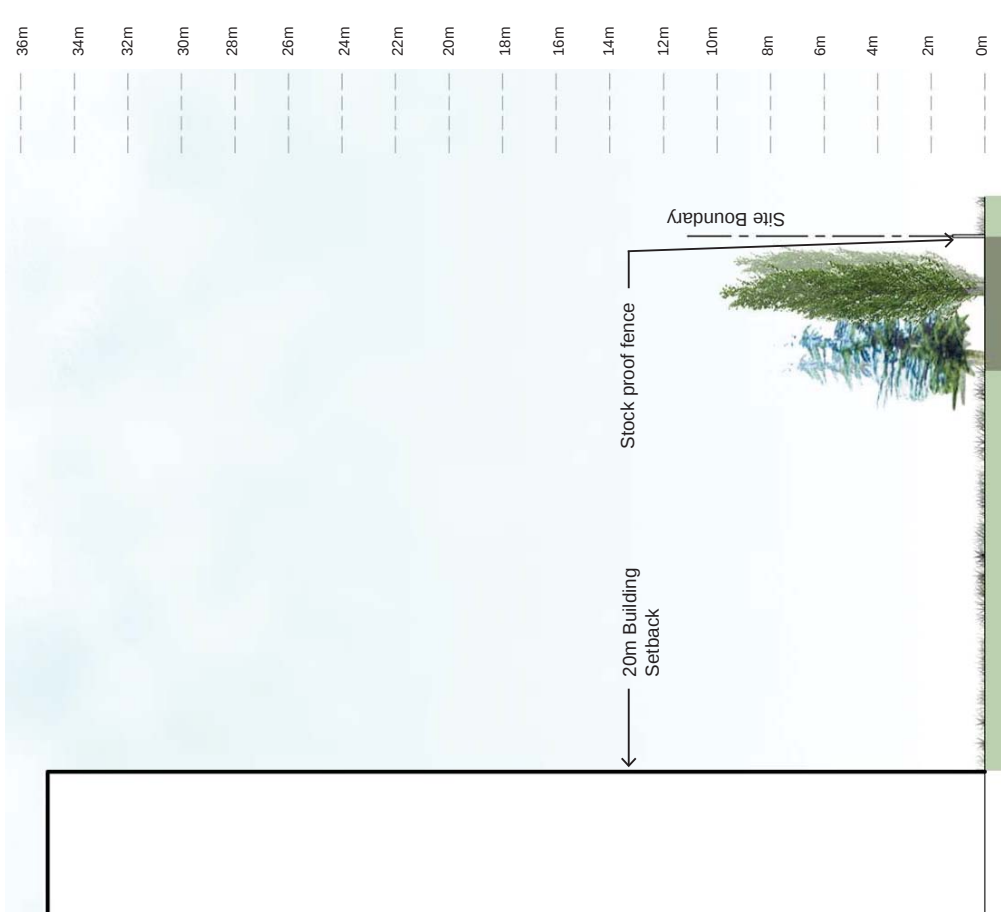
SH 26

AMENITY PLANTING
5m wide native amenity planting. Refer to planting schedule on Sheet 11 for species list.

Road Berm

Tatua site

CROSS SECTION aa - AMENITY PLANTING
5 Years Vegetation Growth
Scale 1:100 @ A3



Tatua site

SHELTERBELT PLANTING
5m wide hedge row. Populus euramericana 'Veronese' and Cupressus x leylandii 'Staplehill' at 3m centres.

CROSS SECTION bb - SHELTERBELT BOUNDARY
5 Years Vegetation Growth
Scale 1:200 @ A3



CROSS SECTION cc - NORTHERN BOUNDARY GROVE
5 Years Vegetation Growth
Scale 1:200 @ A3



WOODLOT PLANTING
3m wide woodlot planting. Refer
to planting schedule on Sheet
11 for species list

RIPARIAN PLANTING
4.5m wide riparian planting.
Refer to planting schedule on
Sheet 11 for species list list.

CROSS SECTION dd - RIPARIAN AND WOODLOT PLANTING
Scale 1:100 @ A3

INDICATIVE PLANT LIST

	BOTANICAL NAME	COMMON NAME	GRADE	SPACING
aa	AMENITY PLANTING			
	<i>Cordyline australis</i>	Te Kouka, Cabbage Tree	1L	1m
	<i>Leptospermum scoparium</i>	Manuka	2L	1m
	<i>Muehlenbeckia astonii</i>	Shrubby Tororaro	1L	1m
	<i>Phormium cookianum</i>	Harakeke	1L	1m
bb	<i>Pittosporum tenuifolium</i>	Black Matipo	1L	1m
	SHELTER BELT PLANTING			
	<i>Populus euramericana 'Veronese'</i>	Poplar	Bareroot (min 1.5m high)	3m
	<i>Cupressus x leylandii 'Staplehill'</i>	Cypress	PB12 (min 1.5m high)	3m
cc	NORTHERN BOUNDARY GROVE			
	<i>Quercus robur</i>	English Oak	PB12 (min 1.5m High)	15m
dd	RIPARIAN PLANTING			
	<i>Carex secta</i>	Purei	0.5L	1m
	<i>Cordyline australis</i>	Te Kouka, Cabbage Tree	1L	1m
	<i>Dacrycarpus dacrydioides</i>	Kahikatea	2L	10m
	<i>Leptospermum scoparium</i>	Manuka	2L	3m
	<i>Phormium tenax</i>	Harakeke	1L	1m
	WOODLOT PLANTING			
dd	<i>Fraxinus angustifolia 'Raywood'</i>	Ash	PB12 (min 1.5m high)	3m
	<i>Liquidambar styraciflua</i>	Liquidambar	PB12 (min 1.5m high)	3m
	<i>Poplar 'Kawa'</i>	Poplar	PB12 (min 1.5m high)	3m