This section has rules that have legal effect.

INF — Infrastructure

This chapter outlines the provisions of the District Plan that relate to the operation and development of infrastructure. Infrastructure enables a community to undertake its everyday activities and functions and allows people to provide for their social and economic wellbeing, and their health and safety. The infrastructure managed through this chapter include those defined as infrastructure under section 2 of the Resource Management Act.

The successful functioning of the city depends on infrastructure. It is important that construction, maintenance, upgrade and operation of these services be provided for, that technical and geographical constraints on the operation of networks are acknowledged, and that the benefits derived from them are recognised. However, infrastructure can also have adverse effects on the environment resulting from their construction, operation or associated maintenance activities.

Role of Wellington Regional Council

Wellington Regional Council also plays a role in providing for infrastructure and managing the potential effects of infrastructure. In particular, through its regional planning documents, the Regional Council manages:

- Activities in the Coastal Marine Area,
- Activities in the beds of lakes and rivers,
- Potential impacts on the quality of water in water bodies and coastal water,
- Potential impacts on aquatic ecosystems, and
- Discharges to air.

As a result, activities associated with infrastructure will also need to comply with the rules of the Regional Council's planning documents (or be otherwise authorised, be it through a resource consent, national environmental standard, or another mechanism).

Other regulatory requirements

Additional regulatory requirements, which are separate to the District Plan or Regional Council planning documents, but are relevant to infrastructure include:

- The Resource Management (National Environmental Standards for Electricity Transmission Activities) Regulations 2009 (NESETA),
- The Resource Management (National Environmental Standards for Telecommunication Facilities) Regulations 2016 (NESTF),
- The National Code of Practice for Utility Operators' Access to Transport Corridors,
- The New Zealand Electrical Code of Practice for Electrical Safe Distances (NZECP 34:2001), and
- Electricity (Hazards from Trees) Regulations 2003.

Relationship with other chapters

The Infrastructure chapter includes provisions for operating, maintaining, repairing, developing, upgrading and decommissioning infrastructure. These infrastructure activities are excluded from most rules in other chapters of the District Plan (details on which other rules apply to infrastructure are given at the beginning of the rules section of this chapter), however objectives and policies in other chapters may be relevant.

The Infrastructure chapter does not include provisions which address the following:

- Green infrastructure and flood mitigation works (Natural Hazards chapter),
- Hard engineering coastal hazard mitigation works (Coastal Hazards chapter),
- Vehicle crossings (Transport chapter),
- Subdivision which creates allotments for infrastructure purposes (Subdivision chapter), and
- Protection of infrastructure from adverse effects of land use and development, including:
  - Protection of gas transmission infrastructure and the National Grid from activities and buildings and structures (Protection of Infrastructure chapter),
  - Earthworks within the National Grid Yard (Earthworks chapter),
  - Subdivision within the Gas Transmission Pipeline Corridor and the National Grid Subdivision Corridor (Subdivision chapter), and
  - Activities sensitive to noise within the Highway and Railway Noise Overlay (Noise chapter).

Objectives

INF-O1	Benefits of infrastructure
The national, regional and local benefits of infrastructure are recognised and provided for.	
INF-O2	**Adverse effects of infrastructure**
The adverse effects of infrastructure on the environment are effectively managed while recognising the functional needs and operational needs of infrastructure.	
INF-O3	**Infrastructure availability and capacity**
Enable safe, resilient, sustainable, responsive and efficient infrastructure that is well integrated with, and able to meet the needs of, subdivision, use, and development.	
INF-O4	**Transport network**
Ensure the transport network is safe, accessible and connected, and provides for all transport modes and users to move efficiently within and beyond Lower Hutt, while being integrated with land use, development and contributing to the planned outcomes for zones and precincts.	

Policies

INF-P1	Recognise benefits of infrastructure
Recognise the social, economic, cultural and environmental benefits that infrastructure provide, including: 1. Enabling enhancement of the quality of life and standard of living for people and communities, 2. Providing for public health and safety, 3. Enabling businesses to function, 4. Enabling growth and development, 5. Enabling the transportation of freight, goods and people, 6. Providing a lifeline during emergencies, and 7. Enabling the effective, safe, secure and efficient transmission of electricity.	
INF-P2	**Provide for infrastructure**
Provide for infrastructure by: 1. Enabling safe, resilient, effective, and efficient operation, maintenance, repair, minor upgrade, or decommissioning of infrastructure, 2. Providing for other upgrades to, and the development of new infrastructure, and 3. Enabling investigation and monitoring activities associated with infrastructure operations.	
INF-P3	**Planning and delivery of infrastructure**
Ensure that infrastructure planning and delivery is coordinated and responsive by: 1. Ensuring development of infrastructure is integrated with other land use, subdivision, development, and urban growth. 2. Enabling infrastructure to be delivered at a rate which is responsive to the reasonably foreseeable needs of Lower Hutt, including with consideration to population growth. 3. Ensuring that infrastructure is resilient or adaptable to impacts of natural hazards and climate change. 4. Ensuring that infrastructure is able to adapt to changing user requirements and technologies. 5. Encouraging the co-location of infrastructure, including the utilisation of existing designations and the use of roads as infrastructure corridors. 6. Ensuring the provision and operation of infrastructure that cross jurisdictional boundaries is managed in an integrated manner.	
INF-P4	**Technological advances**
Provide flexibility to adopt new technologies for infrastructure that: 1. Allow for the re-use of redundant services and structures, or 2. Increase resilience, safety, efficiency or reliability of networks and services, or 3. Facilitate a transition to renewable electricity, or 4. Result in environmental benefits or enhancements, or 5. Promote environmentally sustainable outcomes.	
INF-P5	**Adverse effects of infrastructure**
Avoid, remedy, or mitigate the adverse effects of infrastructure, as far as practicable, including effects on: 1. Natural and physical resources, 2. Amenity values, 3. Natural hazard and climate change risks, 4. Identified features and values within any specified overlay, 5. Any other matter of national importance,	

6. The safe and efficient operation of other infrastructure, and
7. The health, well-being and safety of people and communities.

INF-P6	Consideration of the adverse effects of infrastructure

When considering the adverse effects of infrastructure on the environment, have regard to the following:

1. The time, duration and frequency of adverse effects,
2. Recognising that co-location of infrastructure, shared use of infrastructure corridors and undergrounding of infrastructure provide opportunities for avoiding and minimising adverse effects,
3. Where adverse effects cannot be avoided due to the functional needs and operational needs of the infrastructure to be in that location, then the extent to which those adverse effects are minimised by the infrastructure design or operation,
4. Where adverse effects cannot be avoided or minimised, then the extent to which those adverse effects can be remedied, mitigated or offset,
5. Anticipated outcomes for the receiving environment and the degree to which past modifications have compromised the achievement of those outcomes, and
6. Where located in a specified overlay, the degree to which the identified features and values of locations in the overlay, or site or area of significance will be protected from adverse effects and preserved, including with consideration to whether adverse effects on these values and features are avoided due to being:
    a. No more than minor or transitory, or
    b. Remedied, mitigated or offset.

INF-P7	Upgrading and developing the transport network

Provide for upgrading and developing the transport network where, as far as practicable, it:

1. Supports the growth of active and public transport modes,
2. Does not compromise the safety, efficiency, and resilience of the transport network,
3. Improves connectivity for and integration between all transport modes, including by:
    a. Providing and enhancing active transport connections to existing active transport and public transport networks,
    b. Allocating adequate space in the road corridor for walking, cycling, infrastructure, streetlighting and street trees as well as vehicles and on-street parking, and
    c. Avoiding permanent no-exit streets unless there is no practicable alternative due to site and topographical constraints.
4. Is consistent with the planned outcomes, including in relation to character and amenity, of the zones and precincts in which it is located.

INF-P8	Upgrading and developing the National Grid

Provide for upgrading and developing of the National Grid, while:

1. Avoiding adverse effects on:
    a. The City Centre Zone,
    b. Existing activities sensitive to the National Grid where located within urban areas,
    c. The identified values of Outstanding Natural Features, and
    d. The identified values of Outstanding Coastal Natural Character Areas.
2. Seeking to avoid adverse effects on:
    a. Existing activities sensitive to the National Grid where located within rural environments,
    b. The identified values of Outstanding Natural Landscapes, and
    c. The identified values of High and Very High Coastal Natural Character Areas.
3. Minimising adverse effects on urban amenity where located within urban areas,
4. Remedying or mitigating, to the extent practicable, any adverse effects which cannot be avoided or minimised, and
5. Having regard to the following matters while considering any adverse effects:
    a. Enabling upgrades which have minor adverse effects on the environment,
    b. Except where clause 1 of this policy applies, considering the constraints arising from the operational needs, functional needs, and technical requirements of the National Grid, on the ability to avoid, remedy of mitigate adverse effects,
    c. Whether any adverse effects have been avoided, remedied or mitigated by the route, site and method selection, and
    d. Opportunities provided by any substantial upgrades to reduce existing adverse effects of the National Grid, including on activities sensitive to the National Grid.

Note:
Upgrading and developing the National Grid is excluded from:

- INF-P11: New or upgraded infrastructure in Coastal Natural Character Areas,
- INF-P12: New or upgraded infrastructure in Outstanding Natural Features and Outstanding Natural Landscapes, and
- INF-P14: New or upgraded infrastructure in the Active Street Frontage Overlay.

But must be read in conjunction with the other relevant policies in this chapter.

INF-P9	Upgrading and developing infrastructure in natural hazard overlays

Provide for new or upgraded infrastructure in natural hazard overlays where:
1. There is a functional need or operational need for the infrastructure to be in that location,
2. Related buildings, structures or earthworks are of a scale and design that do not significantly increase natural hazard risk in High Flood Hazard Overlays and Medium Flood Hazard Overlays, and
3. Increases in natural hazard risk in identified high natural hazard overlays are avoided.

INF-P10	Upgrading and developing infrastructure in coastal margins or riparian margins

Provide for new or upgraded infrastructure in coastal margins and riparian margins where:
1. There is a functional need or operational need for the infrastructure to be in that location, and
2. Either:
    a. It is located on a bridge or other structure, or
    b. Is located in road reserve, or
    c. Related buildings, structures, or earthworks are of a scale and design that will minimise adverse effects on coastal or riparian environments.

INF-P11	Upgrading and developing infrastructure in coastal natural character areas

Provide for new or upgraded infrastructure in areas of High, Very High and Outstanding Coastal Natural Character where:
1. There is a functional need or operational need for the infrastructure to be in that location and there are no practicable alternative locations or solutions,
2. Adverse effects on the identified values of the Outstanding Coastal Natural Character Area are avoided,
3. Significant adverse effects on the identified values of the High and Very High Coastal Natural Character Areas are avoided, and
4. Other adverse effects on coastal natural character are avoided, remedied, or mitigated.

Note:
This policy does not apply to upgrading and developing the National Grid, which is covered by Policy INF-P8.

INF-P12	Upgrading and developing infrastructure in Outstanding Natural Features and Outstanding Natural Landscapes

Provide for new or upgraded infrastructure in Outstanding Natural Features and Outstanding Natural Landscapes where:
1. There is a functional need or operational need for the infrastructure to be in that location and there are no practicable alternative locations or solutions,
2. Adverse effects on the identified values of the Outstanding Natural Feature and Outstanding Natural Landscape where located in the Coastal Environment are avoided,
3. Significant adverse effects on the identified values of Outstanding Natural Feature and Outstanding Natural Landscape where located outside the Coastal Environment are avoided, and
4. Other adverse effects on Outstanding Natural Features and Outstanding Natural Landscapes are avoided, remedied or mitigated.

Note:
This policy does not apply to upgrading and developing the National Grid, which is covered by Policy INF-P8.

INF-P13	Upgrading and developing infrastructure in sites and areas of significance to Māori, heritage areas and sites containing heritage buildings or heritage structures

Provide for new or upgraded infrastructure in sites and areas of significance to Māori, heritage areas and sites containing heritage buildings or heritage structures where:
1. There is a functional need or operational need for the infrastructure to be in that location, and
2. Significant adverse effects on the identified values of the overlay are avoided, and other adverse effects are avoided, remedied or mitigated.

INF-P14	Upgrading and developing infrastructure in the Active Street Frontage Overlay

Provide for new or upgraded infrastructure in the Active Street Frontage Overlay where:
1. There is a functional need or operational need for the infrastructure to be in that location,
2. Significant adverse effects on pedestrian amenity, comfort and safety, and visual amenity are avoided,
3. Other adverse effects are avoided, remedied, or mitigated, and
4. It is consistent with the urban design outcomes for the zone or precinct in which it is located.

Note:
This policy does not apply to upgrading and developing the National Grid, which is covered by Policy INF-P8.

Rules

The rules of this chapter address the operation, maintenance, repair, removal, upgrading and development of infrastructure undertaken by network utility operators.

The rules of this chapter address:

- General activities (INF-R1 to INF-R10), including:
  - Infrastructure involving radiofrequency fields (INF-R1),
  - Operation, maintenance, repair and decommissioning of infrastructure (INF-R2),
  - Upgrading (INF-R3),
  - Vehicle access tracks (INF-R4),
  - Temporary infrastructure (INF-R5),
  - Signs for the purpose of infrastructure (INF-R6),
  - Cabinets (INF-R7),
  - Infrastructure located within existing buildings (INF-R8), and
  - Underground pipelines and other structures (INF-R9 and INF-R10),
- Aboveground telecommunications, radiocommunications and electricity distribution infrastructure (INF-R11 to INF-R14),
- Gas transmission infrastructure (INF-R15 to INF-R16),
- Electricity transmission infrastructure (INF-R17 to INF-R19),
- Aboveground water infrastructure (INF-R20),
- Transport infrastructure (INF-R21 to INF-R24), and
- Infrastructure not otherwise provided for (INF-R25).

Operating, maintaining, repairing, upgrading, developing and decommissioning of infrastructure is excluded from all provisions in area-specific and other district-wide chapter, except for:

a. Provisions for infrastructure activities which involve additions, alterations, relocation, or demolition of heritage buildings, heritage structures, or contributing buildings in heritage areas (located in the Historical Heritage chapter),
b. Provisions for infrastructure activities which involve trimming or removal of Notable Trees (located in the Notable Trees chapter),
c. Provisions for the removal of indigenous vegetation in the Natural Open Space Zone and residential zones (located in the Ecosystems and Indigenous Biodiversity chapter),
d. Provisions for Noise, including for infrastructure activities (located in the Noise chapter), and
e. Provisions for the Protection of Infrastructure, including from other infrastructure activities (located in the Protection of Infrastructure chapter).

How to use the rule tables

a. Identify the zone which applies to the area of activity, and whether any overlays are applicable.
b. Refer to the rows in the relevant table to find a description of the activity you want to carry out. For some activities, multiple rules will apply.
c. The standards which are applicable for each activity are identified within the table.
d. The columns to the right of the table identify the activity status which applies to the activity, including whether or not the activity meets the standard and whether or not is located in an overlay.
e. If more than one rule applies to an activity, or more than one overlay is applicable, then the higher activity status applies.
f. For restricted discretionary activities, matters of discretion are identified below the table.

This section has rules that have legal effect.

General — operation, maintenance, repair and decommissioning

				District-Wide					Outside Coastal Environment		Inside Coastal Environment			
Rule #	Rule description	Applicable Standards	Compliance with standards	Where no other columns in this table apply	Active Street Frontage Overlay	Heritage area or site containing heritage building or heritage structure	Category 1 SASM	High Natural Hazard Overlay	Outstanding Natural Feature	Outstanding Natural Landscape	Outstanding Natural Feature	Outstanding Natural Landscape	High and Very High Outstanding Coastal Natural Character Area	Outstanding Coastal Natural Character Area
INF-R1	Operation of infrastructure involving radiofrequency fields	▪ INF-S1 Radiofrequency fields and electric magnetic fields	Standards complied with	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER
			Standards not complied with	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
INF-R2	Operation, maintenance, repair, and decommissioning of infrastructure	▪ INF-S16 Earthworks — Slope, height, depth and location ▪ INF-S17 Earthworks — Area limit, including trenching ▪ INF-S18 Earthworks - reinstatement ▪ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori ▪ INF-S20 Removal of indigenous vegetation	Standards complied with	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER
			Standards not complied with	RDIS	RDIS	RDIS	RDIS	RDIS	RDIS	RDIS	RDIS	RDIS	RDIS	RDIS
INF-R3	Upgrading of infrastructure, excluding transport network infrastructure, and gas and transmission pipelines over 110kV	▪ INF-S2 Upgrading of aboveground infrastructure ▪ INF-S3 Underground infrastructure ▪ INF-S16 Earthworks — Slope, height, depth and location ▪ INF-S17 Earthworks — Area limit, including trenching ▪ INF-S18 Earthworks - reinstatement ▪ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori ▪ INF-S20 Removal of	Standards complied with	PER	PER	PER	PER	PER	RDIS	PER	DIS	DIS	RDIS	NC
			Standards not complied with	NC	NC	NC	NC	NC	DIS	RDIS			DIS	

		indigenous vegetation												
INF-R4	New vehicle access tracks and extensions to existing vehicle access tracks ancillary to infrastructure	■ INF-S16 Earthworks — Slope, height, depth and location ■ INF-S17 Earthworks — Area limit, including trenching ■ INF-S18 Earthworks - reinstatement ■ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori ■ INF-S20 Removal of indigenous vegetation	Standards complied with	PER	PER	RDIS	RDIS	PER	RDIS	RDIS	NC	NC	RDIS	NC
			Standards not complied with	RDIS	RDIS			RDIS	DIS	DIS			NC	
INF-R5	Temporary infrastructure and temporary electricity generators and self-contained power units to supply existing infrastructure	■ INF-S11 Temporary infrastructure — duration ■ INF-S16 Earthworks — Slope, height, depth and location ■ INF-S17 Earthworks — Area limit, including trenching ■ INF-S18 Earthworks - reinstatement ■ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori ■ INF-S20 Removal of indigenous vegetation	Standards complied with	PER	PER	PER	PER	PER	RDIS	PER	NC	NC	RDIS	NC
			Standards not complied with, excluding INF-S11	RDIS	RDIS	RDIS	RDIS	RDIS	DIS	DIS			DIS	
			Standard INF-S11 not complied with	DIS	DIS	DIS	DIS	DIS						
INF-R6	Signs associated with operating, maintaining, and repairing, or developing, upgrading and decommissioning of infrastructure, not including signs for the purpose of operating the transport network which are located in road reserve or rail corridor	■ SIGN-S8 Transport network safety ■ INF-S13 Signs	Standards complied with	PER	PER	PER	PER	PER	RDIS	PER	NC	NC	RDIS	NC
			Standards not complied with	RDIS	RDIS	RDIS	RDIS	RDIS	DIS	RDIS			DIS	
INF-R7	New cabinets (not regulated by the	■ INF-S4 Cabinets which are located within the	Standards complied with	PER					RDIS				RDIS	

	NESTF)	road reserve or rail corridor ■ INF-S5 Cabinets which are not located within the road reserve or rail corridor ■ INF-S16 Earthworks — Slope, height, depth and location ■ INF-S17 Earthworks — Area limit, including trenching ■ INF-S18 Earthworks - reinstatement ■ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori ■ INF-S20 Removal of indigenous vegetation	Standards not complied with	RDIS	RDIS	RDIS	RDIS	RDIS	DIS	RDIS	NC	NC	DIS	NC
INF-R8	New infrastructure located within existing buildings	n/a	n/a	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER
INF-R9	New underground pipelines, including electricity and gas distribution and three waters, excluding electricity and gas transmission	■ INF-S3 Underground infrastructure ■ INF-S17 Earthworks — Area limit, including trenching ■ INF-S18 Earthworks - reinstatement ■ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori ■ INF-S20 Removal of indigenous vegetation	Standards complied with, in road reserve	PER	PER	PER	PER	PER	RDIS	RDIS	DIS	DIS	RDIS	DIS
			Standards complied with, not in road reserve			RDIS	RDIS		DIS	DIS	NC	NC	DIS	NC
			Standards not complied with	RDIS	RDIS			RDIS	NC				NC	
INF-R10	New underground structures other than pipelines	■ INF-S3 Underground infrastructure ■ INF-S17 Earthworks — Area limit, including trenching ■ INF-S18 Earthworks - reinstatement ■ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori ■ INF-S20 Removal of indigenous vegetation	Standards complied with	PER	PER	RDIS	RDIS	PER	RDIS	RDIS	NC	NC	RDIS	NC
			Standards not complied with	RDIS	RDIS			RDIS	NC	DIS			NC	

Telecommunications, radiocommunications and electricity distribution — lines not over 110kV, customer connections, support structures, antennas and aboveground mounted

equipment

				District-Wide					Outside Coastal Environment		Inside Coastal Environment			
Rule #	Rule description	Applicable Standards	Compliance with standards	Where no other columns in this table apply	Active Street Frontage Overlay	Heritage area or site containing heritage building or heritage structure	Category 1 SASM	High Natural Hazard Overlay	Outstanding Natural Feature	Outstanding Natural Landscape	Outstanding Natural Feature	Outstanding Natural Landscape	High and Very High Outstanding Coastal Natural Character Area	Outstanding Coastal Natural Character Area
INF-R11	New antennas or aboveground mounted equipment attached to existing support structure or buildings (not regulated by the NESTF)	▪ INF-S9 Size — antennas and aboveground mounted equipment ▪ INF-S10 Height — building mounted antennas (not regulated by the NESTF)	Standards complied with	PER	PER	PER	PER	PER	RDIS	PER	NC	DIS	RDIS	NC
			Standards not complied with	RDIS	RDIS	RDIS	RDIS	RDIS	DIS	RDIS			DIS	
INF-R12	New support structures including telecommunication poles, with or without associated lines (not over 110kV), antenna or aboveground mounted equipment (not regulated by the NESTF)	▪ INF-S6 Height — support structures (not regulated by the NESTF) ▪ INF-S7 Size — support structures (not regulated by the NESTF) ▪ INF-S8 Location — support structures ▪ INF-S9 Size — antennas and aboveground mounted equipment ▪ INF-S16 Earthworks — Slope, height, depth and location ▪ INF-S17 Earthworks — Area limit, including trenching ▪ INF-S18 Earthworks - reinstatement ▪ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori ▪ INF-S20 Removal of indigenous vegetation	Standards complied with	PER	RDIS	RDIS	RDIS	RDIS	RDIS	RDIS	NC	NC	RDIS	NC
			Standards not complied with	RDIS					NC				NC	
INF-	New customer connection lines	▪ INF-S12 Customer connection lines	Standards complied with	PER	PER	PER	PER	PER	RDIS				RDIS	

R13	and support structures (not regulated by the NESTF)	▪ INF-S16 Earthworks — Slope, height, depth and location ▪ INF-S17 Earthworks — Area limit, including trenching ▪ INF-S18 Earthworks - reinstatement ▪ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori ▪ INF-S20 Removal of indigenous vegetation	Standards not complied with, excluding INF-S12	RDIS	RDIS	RDIS	RDIS	RDIS	DIS	RDIS	NC	NC	DIS	NC
			Standard INF-S12 not complied with	DIS	DIS	DIS	DIS	DIS		DIS				
INF-R14	Cabinets, antennas and poles regulated by the NESTF that do not meet the permitted activity standards in Regulations 20, 21, 22, 27, 29, 31, 33, 35 or 37 of the NESTF	As per the NESTF		RDIS	RDIS	As per NESTF	As per NESTF	RDIS	As per NESTF	As per NESTF	As per NESTF	As per NESTF	As per NESTF	As per NESTF

Gas transmission

				District-Wide					Outside Coastal Environment		Inside Coastal Environment			
Rule #	Rule description	Applicable Standards	Compliance with standards	Where no other columns in this table apply	Active Street Frontage Overlay	Heritage area or site containing heritage building or heritage structure	Category 1 SASM	High Natural Hazard Overlay	Outstanding Natural Feature	Outstanding Natural Landscape	Outstanding Natural Feature	Outstanding Natural Landscape	High and Very High Outstanding Coastal Natural Character Area	Outstanding Coastal Natural Character Area
INF-R15	Upgrading of gas transmission pipelines	▪ INF-S16 Earthworks — Slope, height, depth and location ▪ INF-S17 Earthworks — Area limit, including trenching ▪ INF-S18 Earthworks - reinstatement ▪ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori ▪ INF-S20 Removal of indigenous vegetation	Standards complied with	PER	RDIS	RDIS	RDIS	RDIS	RDIS	RDIS	NC	DIS	RDIS	NC
			Standards not complied with	RDIS					NC	DIS		NC	DIS	
INF-	New gas	n/a	n/a											

R16	transmission pipelines			DIS	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Electricity transmission

				District-Wide					Outside Coastal Environment		Inside Coastal Environment			
Rule #	Rule description	Applicable Standards	Compliance with standards	Where no other columns in this table apply	Active Street Frontage Overlay	Heritage area or site containing heritage building or heritage structure	Category 1 SASM	High Natural Hazard Overlay	Outstanding Natural Feature	Outstanding Natural Landscape	Outstanding Natural Feature	Outstanding Natural Landscape	High and Very High Outstanding Coastal Natural Character Area	Outstanding Coastal Natural Character Area
INF-R17	Upgrading of transmission lines above 110kV, including associated support structures (not regulated by the NESETA)	▪ INF-S14 Buildings or structures, other than cabinets or support structures ▪ INF-S16 Earthworks — Slope, height, depth and location ▪ INF-S17 Earthworks — Area limit, including trenching ▪ INF-S18 Earthworks - reinstatement ▪ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori ▪ INF-S20 Removal of indigenous vegetation ▪ INF-S21 Upgrading of transmission lines	Standards complied with	PER	RDIS	RDIS	RDIS	RDIS	RDIS	RDIS	NC	DIS	RDIS	NC
			Standards not complied with	DIS	NC	DIS	DIS	DIS	DIS	DIS			DIS	
INF-R18	New transmission lines including associated support structures, that convey electricity over 110kV or above	n/a	Not located in the City Centre Zone	DIS	NC	DIS	DIS	DIS	NC	DIS	NC	NC	DIS	NC
			Located in the City Centre Zone	NC		NC	NC	NC						
INF-R19	New substations, transformers, switching stations and ancillary buildings for the National Grid	▪ INF-S14 Buildings or structures, other than cabinets or support structures ▪ INF-S16 Earthworks — Slope, height, depth and location ▪ INF-S17 Earthworks — Area limit, including	Standards complied with	PER	RDIS	RDIS	RDIS	RDIS	NC	RDIS	NC	NC	RDIS	NC
			Standards not complied with											

		trenching ■ INF-S18 Earthworks - reinstatement ■ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori ■ INF-S20 Removal of indigenous vegetation		RDIS						DIS			DIS	

Aboveground water infrastructure

				District-Wide					Outside Coastal Environment		Inside Coastal Environment			
Rule #	Rule description	Applicable Standards	Compliance with standards	Where no other columns in this table apply	Active Street Frontage Overlay	Heritage area or site containing heritage building or heritage structure	Category 1 SASM	High Natural Hazard Overlay	Outstanding Natural Feature	Outstanding Natural Landscape	Outstanding Natural Feature	Outstanding Natural Landscape	High and Very High Outstanding Coastal Natural Character Area	Outstanding Coastal Natural Character Area
INF-R20	New aboveground water reservoirs, water and wastewater treatment plants and water, wastewater and stormwater pump stations, not contained in a cabinet	n/a	n/a	DIS	NC	NC	NC	NC	NC	DIS	NC	NC	NC	NC

Transport infrastructure

				District-Wide					Outside Coastal Environment		Inside Coastal Environment			
Rule #	Rule description	Applicable Standards	Compliance with standards	Where no other columns in this table apply	Active Street Frontage Overlay	Heritage area or site containing heritage building or heritage structure	Category 1 SASM	High Hazard Area	Outstanding Natural Feature	Outstanding Natural Landscape	Outstanding Natural Feature	Outstanding Natural Landscape	High and Very High Outstanding Coastal Natural Character Area	Outstanding Coastal Natural Character Area
INF-R21	Signs for the purpose of operating the transport network, located in road reserve or rail corridor	■ INF-S13 Signs	Standards complied with	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER
			Standards not complied with						RDIS		DIS	DIS		DIS

INF-R22	Ancillary transport network infrastructure	■ INF-S4 Cabinets which are located in the road reserve or rail corridor ■ INF-S6 Height — support structures (not regulated by the NESTF) ■ INF-S7 Size — support structures (not regulated by the NESTF) ■ INF-S8 Location — support structures ■ INF-S9 Size — antennas and aboveground mounted equipment ■ INF-S14 Buildings and structures, other than cabinets or support structures ■ INF-S16 Earthworks — Slope, height, depth and location ■ INF-S17 Earthworks — Area limit, including trenching ■ INF-S18 Earthworks - reinstatement ■ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori	Standards complied with	PER	PER	PER	PER	PER	RDIS	PER	PER	RDIS	RDIS	RDIS
			Standards not complied with	RDIS	RDIS	RDIS	RDIS	RDIS	DIS	RDIS	NC	DIS	DIS	NC
INF-R23	Upgrading transport network infrastructure, including cycleways and shared paths	■ INF-S15 Road design ■ INF-S16 Earthworks — Slope, height, depth and location ■ INF-S17 Earthworks — Area limit, including trenching ■ INF-S18 Earthworks - reinstatement ■ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori	Standards complied with	PER	PER	PER	PER	PER	RDIS	RDIS	NC	NC	RDIS	NC
			Standards not complied with	RDIS	RDIS	RDIS	RDIS	RDIS	NC	DIS			NC	
INF-R24	New transport network infrastructure, including cycleways and shared paths	■ INF-S15 Road design ■ INF-S16 Earthworks — Slope, height, depth and location ■ INF-S17 Earthworks — Area limit, including trenching	Standards complied with	RDIS	RDIS	RDIS	RDIS	RDIS						
			Standards not complied with											

		■ INF-S18 Earthworks - reinstatement ■ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori ■ INF-S20 Removal of indigenous vegetation		DIS	DIS	DIS	DIS	DIS	NC	DIS	NC	NC	DIS	NC

Infrastructure not otherwise provided for in the above tables

				District-Wide					Outside Coastal Environment		Inside Coastal Environment			
Rule #	Rule description	Applicable Standards	Compliance with standards	Where no other columns in this table apply	Active Street Frontage Overlay	Heritage area or site containing heritage building or heritage structure	Category 1 SASM	High Natural Hazard Overlay	Outstanding Natural Feature	Outstanding Natural Landscape	Outstanding Natural Feature	Outstanding Natural Landscape	High and Very High Outstanding Coastal Natural Character Area	Outstanding Coastal Natural Character Area
INF-R25	Infrastructure not otherwise provided for or subject to any other rule in chapter	■ INF-S14 Buildings and structures, other than cabinets or support structures ■ INF-S16 Earthworks — Slope, height, depth and location ■ INF-S17 Earthworks — Area limit, including trenching ■ INF-S18 Earthworks - reinstatement ■ INF-S19 Earthworks — in relation to Sites and Areas of Significance to Māori ■ INF-S20 Removal of indigenous vegetation	Standards complied with	PER	RDIS	RDIS	RDIS	RDIS	DIS	RDIS	NC	NC	DIS	NC
			Standards not complied with	RDIS					NC	DIS			NC	

This section has rules that have legal effect.

Assessment matters for Restricted Discretionary Activities

1. The matters in INF-P1 to INF-P6.
2. The degree of non-compliance and matters of discretion of any infringed standard.
3. The functional needs, operational needs, and technical requirements of the infrastructure.
4. Any positive effects that can only be achieved through non-compliance with a rule or standard.
5. For transport network infrastructure, the matters in INF-P7.
6. For National Grid infrastructure, the matters in INF-P8.
7. For infrastructure which is a regulated activity under the NESTF, the only matters of discretion are those identified in Regulation 15(2) of the NESTF.
8. For infrastructure (other than National Grid infrastructure) located within a Outstanding, Very High, or High Coastal Natural Character Area, Outstanding Natural Feature, or Outstanding Natural Landscape, effects on the features or values identified and described in SCHED4 and SCHED5.
9. For infrastructure (other than National Grid infrastructure) located within the Active Street Frontage Overlay, effects on pedestrian amenity, comfort, and safety, and visual amenity.
10. For infrastructure located within a heritage area, a site containing a heritage building or heritage structure, or a site or area of significance to Māori, effects on the particular heritage and/or cultural values of that site, area, item and/or feature.
11. For infrastructure located within a High Natural Hazard Overlay, the change to risks from natural hazards as a result of the activity being undertaken.

Standards

INF-S1	**Radiofrequency fields and electric magnetic fields**
All Zones	1. The maximum exposure levels do not exceed the levels specified in NZS 2772:1999 'Radiofrequency Fields — Maximum exposure levels — 3kHz to 300 GHz.'. 2. Infrastructure that emits electric and magnetic fields complies with the International Commission on Non-ionising Radiation Protection Guidelines for limiting exposure to time-varying electric and magnetic fields (1 Hz — 100 Hz), Health Physics 99(6):818-836; 2010 and the recommendations from the World Health Organisation monograph Environmental Health Criteria (No 238, 2007). **There are no matters of discretion if the standard is breached.**
INF-S2	**Upgrading of infrastructure**
All Zones	1. The replacement, realignment or relocation of a line, any pipe (excluding a gas transmission pipeline), support structure, conductor, cross arm, switch, transformer or ancillary structure must be within 5m of the existing alignment or location. 2. A single mast pole, pi pole or similar support structure must not be replaced by a steel-lattice structure. 3. A support structure must not exceed the height of the replaced support structure, or the maximum structure height provided for in INF-S6: Height — Support structures not regulated by the NESTF, whichever is higher. 4. The diameter or width of a replacement support structure: a. Must not exceed twice the width of the replaced support structure at its widest point, or b. Where a single pole is replaced with a pi pole, the width of the pi pole structure must not exceed 4.2m. 5. The number of additional support structures required to achieve the conductor clearances required by NZECP 34:2001 must not exceed two. 6. Additional cross arms must not exceed twice the length of the existing cross arm, up to a maximum of 4m. 7. The diameter of replacement pipes located aboveground must not exceed the diameter of the replaced pipe by more than 300mm. 8. The realignment, relocation, or replacement of any other infrastructure structure or building must be within 5m of the alignment of location of the original structure or building. 9. The realignment, relocation, or replacement of any infrastructure structure or building must not increase its footprint by more than the following: a. Where located within a High, Very High, or Outstanding Coastal Natural Character Area, Outstanding Natural Feature, Outstanding Natural Landscape, Stream Corridor or Overland Flow Path: 5%.

	b. In all other cases: 30%. 10. A replacement panel antenna must not increase the face area by more than 20%. 11. A replacement dish antenna must not increase in diameter by more than 20%. 12. Where located within a heritage area, a site containing a heritage building or heritage structure or within the extent of a Category 1 Site or Area of Significance to Māori: a. Any replaced or upgraded elements must match the colour of the existing building or structure. **Matters of discretion if the standard is breached**: 1. Visual effects, including impacts on: a. The residential and recreation use of land in the vicinity of the structure, b. The existing character, landscape, streetscape, and amenity values of the locality, and c. Key public places, public viewing points, the coast, and significant recreational areas. 2. Measures to mitigate the visual effect of the structure, including screening, colour and finish treatment, landscape screening, viewing distances, and the location of support structures. 3. Whether the size and scale of the structure is compatible with other development in the area. 4. The extent to which it is technically, economically, or practically reasonable for the masts or antennas to be co-sited with similar structures or other buildings. 5. Where located in the High Flood Hazard Overlay or Medium Flood Hazard Overlay: a. Effects related the obstruction and displacement of floodwaters.
INF-S3	**Underground infrastructure**
All Zones	1. For the installation or upgrading of pipelines, the gauge pressure must not exceed 2,000 kilopascals. 2. Trenching for the construction, operation, maintenance and repair, removal, or upgrade of infrastructure must not exceed 1.0m in depth where located within 1.5m of a building or structure on any adjacent site. **There are no matters of discretion if the standard is breached.**
INF-S4	**Cabinets located within road reserve or the rail corridor**
Rural Zones Industrial Zones	1. The cabinet must not exceed a maximum height above ground level of 2m. 2. The cabinet must not exceed a maximum area of $6m^2$.
Open Space and Recreation Zones Residential Zones Commercial and Mixed Use Zones Special Purpose Zones	3. The cabinet must not exceed a maximum height above ground level of 2m. 4. The cabinet must not exceed a maximum area of $2m^2$, except for electricity distribution substations, which must not exceed a maximum area of $5m^2$.
All zones	**Matters of discretion if the standard is breached:** 1. Adverse effects on traffic and pedestrian safety including sightlines and the visibility of traffic signage. 2. Adverse effects on the attractiveness of active transport environments. 3. Visual effects, including impacts on: a. The residential and recreation use of land in the vicinity of the structure, b. The existing character, landscape, streetscape and amenity values of the locality, and c. Key public places, public viewing points, the coast, and significant recreational areas. 4. Measures to mitigate the bulk and scale of the structure including screening, colour and finish treatment, landscape screening, viewing distances, and the location of support structures. 5. Whether the size and scale of the structure is generally compatible with other development in the area.
INF-S5	**Cabinets not located within road reserve or the rail corridor**

All Zones	1. The cabinet must not exceed a maximum height above ground level of 3m. 2. The cabinet must not exceed a maximum area of 15m^2. 3. The cabinet must not be located within a riparian margin or coastal margin, except where located on a bridge or other structure. 4. The cabinet must not be located within 2m of a side or rear boundary that adjoins a residential zone, except where it does not exceed 2m in height. **Matters of discretion if the standard is breached:** 1. Visual effects, including impacts on: a. The residential and recreation use of land in the vicinity of the structure, b. The existing character, landscape, streetscape and amenity values of the locality, and c. Key public places, public viewing points, the coast, and significant recreational areas. 2. Measures to mitigate the bulk and scale of the structure, including screening, colour and finish treatment, landscape screening, viewing distances, and the location of support structures. 3. Whether the size and scale of the structure is generally compatible with other development in the area.
INF-S6	**Height — Support structures not regulated by the NESTF**
Large Lot Residential Zone Rural Lifestyle Zone Natural Open Space Zone Open Space Zone Sport and Active Recreation Zone Marae Zone	1. The support structure must not exceed a maximum height above ground level of 12m (single provider). 2. The support structure must not exceed a maximum height above ground level of 15m (two or more providers).
Medium Density Residential Zone	3. The support structure must not exceed a maximum height above ground level of 17m (single provider). 4. The support structure must not exceed a maximum height above ground level of 22m (two or more providers).
High Density Residential Zone Local Centre Zone Neighbourhood Centre Zone Mixed Use Zone Metropolitan Centre Zone City Centre Zone Hospital Zone Tertiary Education Zone Quarry Zone Seaview Marina Zone	5. The support structure must not exceed a maximum height above ground level of 27m (single provider). 6. The support structure must not exceed a maximum height above ground level of 32m (two or more providers).
Light Industrial Zone Heavy Industrial Zone	7. The support structure must not exceed a maximum height above ground level of 30m (single provider). 8. The support structure must not exceed a maximum height above ground level of 35m

General Industrial Zone General Rural Zone	(two or more providers).
Outstanding Natural Features Outstanding Natural Landscapes	9. The support structure must not exceed a maximum height above ground level of 5m, where located within the Coastal Environment. 10. The support structure must not exceed a maximum height above ground level of 8m, where located outside the Coastal Environment.
High and Very High Coastal Natural Character	11. It must not exceed a maximum height above ground level of 8m.
Outstanding Coastal Natural Character	12. It must not exceed a maximum height above ground level of 5m.
All Zones	**Matters of discretion if the standard is breached:** 1. Visual effects, including impacts on: a. The residential and recreation use of land in the vicinity of the structure, b. The existing character, landscape, streetscape and amenity values of the locality, and c. Key public places, public viewing points, the coast, and significant recreational areas. 2. Measures to mitigate the bulk and scale of the structure including screening, colour and finish treatment, landscape screening, viewing distances, and the location of support structures. 3. Whether the size and scale of the structure is compatible with other development in the area. 4. The extent to which it is technically, economically or practically reasonable for the masts or antennas to be co-sited with similar structures or other buildings.
INF-S7	**Size — Support structures not regulated by the NESTF**
Residential Zones Open Space and Recreation Zones Commercial and Mixed Use Zones Special Purpose Zones Rural Zones	1. The maximum width of the structure when measured at ground does not exceed a maximum width of: a. 1.3m — single provider, or b. 1.5m — two or more providers. 2. From above 6m in height above ground level, the diameter of the structure must not exceed: a. 600mm — single provider, or b. 1m — two or more providers. 3. The width of pi poles must not exceed 4.2m. **Matters of discretion if the standard is breached:** 1. Visual effects, including impacts on: a. Residential and recreation use of land in the vicinity of the structure, b. The existing character, landscape, streetscape, and amenity values of the locality, and c. Key public places, public viewing points, the coast, and significant recreational areas. 2. Measures to mitigate the bulk and scale of the structure, including screening, colour and finish treatment, landscape screening, viewing distances, and the location of support structures. 3. Whether the size and scale of the structure is generally compatible with other development in the area. 4. The extent to which it is technically, economically or practically reasonable for the masts or antennas to be co-sited with similar structures or other buildings.
Industrial Zones	4. No requirements.
INF-S8	**Location — Support structures**
All Zones	1. The support structure must not be located within a riparian margin or coastal margin, except where located on a bridge or other structure or within the road reserve. 2. The support structure must not be located within 10m of a side or rear boundary that adjoins a residential zone, except: a. Where it does not exceed 5m in height, or b. Where it is located in road reserve or the rail corridor.

	Matters of discretion if the standard is breached: 1. Visual effects including impacts on: a. The residential and recreation use of land in the vicinity of the structure, b. The existing character, landscape, streetscape, and amenity values of the locality, and c. Key public places, public viewing points, the coast, and significant recreational areas. 2. Measures to mitigate the bulk and scale of the structure including screening, colour and finish treatment, landscape screening, viewing distances, and the location of support structures. 3. Whether the size and scale of the structure is generally compatible with other development in the area. 4. The extent to which it is technically, economically or practically reasonable for the masts or antennas to be co-sited with similar structures or other buildings.
INF-S9	**Size — Antennas and aboveground mounted equipment**
All Zones	1. A panel antenna: a. Must not exceed a width of 0.7m, and b. When in a road reserve, must fit within an envelope of 3.5m in length and 0.7m in width. 2. A dish antenna must not exceed a diameter of 1.2m. 3. Omni directional 'whip' or dipole antenna must not exceed: a. 1.6m in vertical length, b. 60mm in diameter, and c. 1.5m in horizontal length. 4. A headframe must not exceed: a. 2.5m in diameter in Residential Zones (except when located in a road), or b. 6m in diameter in all other zones. 5. In residential zones, aboveground mounted equipment associated with antennas must be located within the antenna mounts. 6. Aboveground mounted equipment must not exceed 1m in length. 7. The area when measured in plan view of aboveground mounted equipment not associated with antennas must not exceed: a. $0.5m^2$ if unenclosed, and b. $1.0m^2$ if enclosed in a three-dimensional casing. **Matters of discretion if the standard is breached:** 1. Visual effects, including impacts on: a. The residential and recreation use of land in the vicinity of the structure, b. The existing character, landscape, streetscape and amenity values of the locality, and c. Key public places, public viewing points, the coast, and significant recreational areas. 2. Measures to mitigate the bulk and scale of the structure including screening, colour and finish treatment, landscape screening, viewing distances, and the location of support structures. 3. Whether the size and scale of the structure is generally compatible with other development in the area. 4. The extent to which it is technically, economically or practically reasonable for the masts or antennas to be co-sited with similar structures or other buildings.
INF-S10	**Height — Building mounted antennas not regulated by the NESTF**
All Zones	1. The top of the antenna must not extend more than 5m above the highest point of the roof structure. 2. If the building is in a Residential Zone, the lowest point at which the antenna is attached to the building must be at least 15m above the ground. **Matters of discretion if the standard is breached:** 1. Visual effects, including impacts on: a. The residential and recreation use of land in the vicinity of the structure, b. The existing character, landscape, streetscape and amenity values of the locality, and c. Key public places, public viewing points, the coast, and significant recreational areas. 2. Measures to mitigate the bulk and scale of the structure including screening, colour and finish treatment, landscape screening, viewing distances, and the location of support structures.

	3. Whether the size and scale of the structure is generally compatible with other development in the area. 4. The extent to which it is technically, economically or practically reasonable for the masts or antennas to be co-sited with similar structures or other buildings. 5. The extent to which antennas can be designed or screened so that they form an integral part of the total building design.
INF-S11	**Temporary Infrastructure - Duration**
All Zones	1. The temporary infrastructure or temporary electricity generator and self-contained power unit must: a. Operate for no more than 12 months, and b. Be removed from the site when the operation ceases or is no longer required, within the period set in INF-S11.1a. **There are no matters of discretion if the standard is breached.**
INF-S12	**Customer connection lines**
All Zones	1. New support structures for the connection must not include a steel-lattice structure. 2. The connection must not exceed three additional support structures. 3. The diameter of the conductors, lines or cables must not exceed 30mm. **There are no matters of discretion if the standard is breached.**
INF-S13	**Signs**
All Zones	1. Signs are exempt from this standard if they are located on a site and are not visible beyond the site on which they are located. 2. All signs associated with construction, maintenance and repair, or upgrading of infrastructure must: a. Be installed no sooner than three months prior to any works commencing, and b. Be removed no later than one month after completion of the works. 3. Where located on a site, all signs must not exceed a combined area of $3m^2$. 4. Where located within road reserve, all signs within a 100m stretch of the road must not exceed a combined area of $3m^2$.
Outstanding Coastal Natural Character Area	5. Where located on a site, all signs must not exceed a combined area of $1m^2$. 6. Where located within road reserve, all signs within a 100m distance must not exceed a combined area of $1m^2$.
Outstanding Natural Features	7. Where located on a site, all signs must not exceed a combined area of $1m^2$. 8. Where located within road reserve, all signs within a 100m distance must not exceed a combined area of $1m^2$.
Outstanding Natural Landscapes	9. Where located on a site within the Coastal Environment, all signs must not exceed a combined area of $1m^2$. 10. Where located within road reserve within the Coastal Environment, all signs, all signs within a 100m distance must not exceed a combined area of $1m^2$.
All zones	**Matters of discretion if the standard is breached:** 1. Any positive effects that cannot be achieved while complying with the standard. 2. The size, location, height, and design of the sign. 3. The character and visual amenity of the surrounding area. 4. How the sign fits with the design and proportions of the building it is placed on (if placed on a building). 5. The safety and efficiency of the transport network. 6. Cumulative effects.
INF-S14	**Buildings and structures, other than cabinets or support structures**
All Zones	1. Where located on a site: a. Compliance must be achieved with the bulk and location standards for the zone in which the building or structure is located. 2. Where not located on a site: a. Must not exceed a maximum height of 3m above ground level, b. Must not exceed $20m^2$ in area, c. It must not be located within a riparian margin or coastal margin, except where located on a bridge or other structure or within the road reserve, and d. It must not be located within 1m of a boundary that adjoins a residential zone, except where it does not exceed 2m in height.

High and Very High Coastal Natural Character	3. Must not exceed a maximum height of 5m above ground level. 4. Must not exceed 50m^2 in area.
Outstanding Natural Feature	5. Must not exceed a maximum height of 5m above ground level. 6. Must not exceed 50m^2 in area. 7. The highest point of the building or structure must be below the ridgeline when measured horizontally from the ridgeline.
Outstanding Natural Landscape	8. Where located within the Coastal Environment: a. Must not exceed a maximum height of 5m above ground level. b. Must not exceed 50m^2 in area. c. The highest point of the building or structure must be below the ridgeline when measured horizontally from the ridgeline.
All zones	**Matters of discretion if the standard is breached:** 1. Visual effects including impacts on: a. The residential and recreation use of land in the vicinity of the structure, b. The existing character, landscape, streetscape and amenity values of the locality, and c. Key public places, public viewing points, the coast, and significant recreational areas. 2. Measures to mitigate the bulk and scale of the structure including screening, colour and finish treatment, landscape screening, viewing distances, and the location of support structures. 3. Whether the size and scale of the structure is generally compatible with other development in the area. 4. The extent to which it is technically, economically or practically reasonable for the masts or antennas to be co-sited with similar structures or other buildings. 5. Where located in the High Flood Hazard Overlay or Medium Flood Hazard Overlay: a. Effects related to the obstruction and displacement of floodwaters.
INF-S15	**Road design**
All Zones	1. Cycleways and shared paths located outside of the road reserve are exempt from this standard. 2. All roads must be designed and constructed in accordance with NZS 4404:2010 Land Development and Subdivision Infrastructure, except where superseded by a clause in this standard. 3. New roads must be provided with pedestrian footpaths in accordance with the following: a. Peri-urban Roads, Rural Connectors and Rural Roads: footpaths must be provided on at least one side of the roads. b. All other roads: Footpaths must be provided on both sides of the road. c. All footpaths must be clear of the carriageway. 4. Pedestrian footpaths must have: a. A minimum width of 1.8m, and b. A crossfall not exceeding 2%, including where intersected by vehicle crossings. 5. The road must not be a no-exit road. 6. All roads must be formed with a minimum 4m permanently navigable movement lane to ensure suitable access for firefighting. 7. Street lighting must be provided in accordance with AS/NZS 1158:2005 Lighting for Roads and Public Spaces 8. Street trees must be provided in accordance with Table 1: Street trees specifications and Table 2: Street trees species list. 9. All roads must be designed so that compliance is achieved with New Zealand Standard 6806:2010 Acoustics — Road-traffic noise — New and altered roads. **There are no matters of discretion if the standard is breached.**

Table 1: Street trees specifications

Size class at maturity (stem diameter at 1.5m above ground)		<600mm	600+mm
Height at maturity (m)		3-8	5-10
Minimum number of trees per 100m of road		4	4
Horizontal setback distances from underground	• Manholes, drainage catchments, surface openings • Trunk water mains	0.50	1.5

infrastructure (m)	• Stormwater pipes >300mm diameter • Sewer pipes >300mm diameter • Distribution gas pipelines • Distribution or customer connection electricity lines		
	• Transmission gas pipelines • Transmission electricity lines	4.0	4.0
Horizontal setback distances from structures (m)	• Hard surfaces (footpaths etc) • Road kerbs • Vehicle crossings • Masonry walls	0.6	1.0
	• Pavers • Lightly loaded structures (bus shelters, garages etc) • Heavily loaded structures (houses etc)	0.7	1.5
	• Street lights	5.0	5.0
Minimum berm width (m)		1.5	2.0
Minimum topsoil depth (m)		0.5	0.6
Minimum soil volume (m^3)		10.0	12.0

Table 2: Street trees – species list

Botanical name	**Common Name**	**Size class**	**Sub-region** EB — Eastern Bays SV- Stokes Valley VN — Valley Floor, north of Whites Line VS — Valley Floor, south of Whites Line WA — Wainuiomata WH — Western Hills
Agonis flexuosa	Willow Myrtle	600mm+	EB, VN, VS, WH
Alnus cordata	Italian Alder	600mm+	SV, VN, VS, WA
Azara microphylla	Boxleaf Azara	<300mm	EB
Albizia julibrissin ‘Red Silk’	Persian Silk Tree	600mm+	EB, VN, VS
Banksia integrifoila	Coast Banksia	600mm+	EB, VS
Betula nigra	River Birch	600mm+	SV, VN, VS, WA
Betula utilus	Birch	600mm+	VN, SV
Corylus colurna	Turkish Hazel	300 — 600mm	EB, VN, VS, SV, WH
Corymbia ficifolia / Eucalyptus ficifolia	Red Flowering Gum	600mm+	EB VS
Dacrycarpus dacrydioides	Kahikatea	600mm+	SV
Eucalyptus leucoxylon rosea	Red-flowering Yellow Gum	600mm+	EB, VN, SV, WH, VS, WA
Fraxinus americana	White Ash	600mm+	VN, SV
Fraxinus angustifolia	Narrow-leaved Ash	600mm+	VN, WA, SV
Fraxinus excelsior	European Ash	600mm+	VN, WA, SV
Ginkgo biloba	Maidenhair Tree	600mm+	VN, WA, SV
Gleditsia triacanthos inermis	Honey Locust	600mm+	EB, VN, SV
Gordonia yunnanensis	Fried Egg Tree	<300mm	VN, SV
Hedycarya arborea	Poroakaiwhiri	<300mm	WH, SV

Hoheria angustifolia	Houhi	300 — 600mm	EB, VN, SV, WH
Hoheria sexstylosa	Houhere	300 — 600mm	SV, VN
Kunzea ericoides	Kānuka	<300mm	EB, SV, VN, WA
Liquidambar styraciflua	American Sweetgum	600mm+	SV, VN, WA
Magnolia grandiflora	Magnolia	600mm+	EB, VS, VN
Malus tschonoskii	Chonosuki Crabapple	<300mm	EB, VN, WA, WH, SV, VS
Maytenus boaria	Maiten	300 — 600mm	EB, VN
Melia azedarach	Persian Lilac	600mm+	SV, VN, EB
Metasequoia glyptostroboides	Dawn Redwood	600mm+	SV
Metrosideros excelsa cvs	Pohutukawa	600mm+	EB, VN, VS
Metrosideros excelsa, M. kermadecensis	Pohutukawa	600mm+	EB, VN, VS
Metrosideros hybrids — ‘Mistral’, ‘Maungapiko’	Mistral, Maungapiko	600mm+	EB, SV VN, VS, WH
Metrosideros robustsa	Northern Rātā	600mm+	EB, VN, WA, WH, SV, VS
Metrosideros umbellata	Southern Rātā	300 — 600mm	VS
Myoporum laetum	Ngaio	300 — 600mm (Requires berm widths of at least 5m)	VS
Myrsine australis	Māpou	<300mm	WH, EB, VN, VS, WA
Olea europaea	European Olive	<300mm	EB
Phyllocladus trichomanoides	Tānekaha	300 — 600mm	SV
Pittosporum eugenioides	Tarata	300 — 600mm	EB, SV, VN, WA
Pittosporum tenuifolium	Kōhūhū	300 — 600mm	EB, SV, VN, WA, WH
Plagianthus regius	Mānatu	300 — 600mm	EB, SV, VN, WA, WH
Podocarpus totara, Podocarpus hallii	Totara	600mm+	EB, SV, VN, WA
Pseudopanax arboreus	Puahou	300 — 600mm	WH
Pyrus calleryana	Callery Pear	300 — 600mm	EB, SV, VN, VS, WA, WH
Schinus molle	California Pepper Tree	600mm+	EB, VN,
Sophora subsp. -microphylla -godleyi -tetrapetera -chathamica	Kowhai	<300mm	EB, SV, VN, VS, WA, WH
Tristaniopsis laurina	Water Gum	300 — 600mm	EB, VN, VS
Ulmus parvifolia	Chinese Elm	300 — 600mm (Requires berm widths of at least 5m)	EB, SV, VN, VS, WA, WH
Zelkova serrata	Zelkova	300 — 600mm	SV, VN

		(Requires berm widths of at least 5m)	

INF-S16	**Earthworks — Slope, height, depth, and location**
All Zones	1. Earthworks are exempt from this standard if it is: a. Undertaken by a network utility operator to achieve the ground to conductor clearance required by NZECP34:2001, or b. Associated with any building or structure used for infrastructure purposes that are within 2m of the exterior walls of the building or structure, measured in plan view, or c. Any piling associated with a support structure that is within 2m of an existing support structure or necessary to install a support structure, or d. For the purpose of trenching and there is no permanent change to ground levels.
All Zones	2. Earthworks must not be undertaken on an existing slope with an angle of 34° or greater. 3. Earthworks must not be located within 1.0m of the site boundary, measured on a horizontal plane except where the site boundary separates adjoining sites which are both within the area of land subject to the proposed works.
All Zones	4. Earthworks cut or fill depth (measured vertically) must not exceed 1.5m, except where the earthworks are associated with switchback sections for the development of new and maintenance of existing walkways, cycleways and shared paths that are located on public land other than a road. 5. Earthworks associated with the development of new and maintenance of existing walkways, cycleways and shared paths that are located on public land other than a road must not exceed 1.8m cut height or fill depth on switchback sections of the pathway, measured vertically.
Outstanding Natural Features Outstanding Natural Landscapes	6. Where located within the Coastal Environment, earthworks cut or fill depth (measured vertically) must not exceed 1.0m.
Outstanding Coastal Natural Character	7. Earthworks cut or fill depth (measured vertically) must not exceed 0.5m.
Coastal margins Riparian margins	8. Earthworks cut or fill depth (measured vertically) must not exceed 0.5m.
Stream Corridor Overlay Overland Flow Overlay	9. Earthworks cut or fill must not permanently change the ground level.
All zones	**Matters of discretion if the standard is breached:** 1. The stability of land or structures in or on the site or adjacent sites. 2. The visual amenity values and character of the surrounding area. 3. The natural landform and the extent to which the finished site will reflect and be sympathetic to the surrounding landform. 4. The retention of silt and sediment on the site and the control of dust. 5. The staging of earthworks. 6. The total area of exposed soils at any point in time. 7. The effect of the earthworks on the identified coastal natural character values in the area. 8. The ability to integrate the proposed earthworks and be sympathetic with the surrounding landform. 9. The degree to which the effects of the earthworks can be remedied or mitigated. 10. The effect of earthworks on the natural character of the coastal or riparian margin. 11. Whether there is any change to natural hazard risk.
INF-S17	**Earthworks — Area limit, including trenching**
Residential Zones	1. The total earthworks area open at any one time, must not exceed 250m^2.
Commercial and Mixed Use Zones Industrial Zones	2. The total earthworks area open at any one time, must not exceed 500m^2.

Open Space and Recreation Zones Special Purpose Zones	
Rural Zones	3. The total earthworks area open at any one time, must be no greater than 1,000m^2.
Coastal margins Riparian margins	4. The total area of earthworks must not exceed 25m^2 in any 12-month period.
Outstanding Natural Landscapes	5. The total area of earthworks in any 12-month period must not exceed: a. 100m^2 where located in the coastal environment b. 200m^2 where not located in the coastal environment
Outstanding Natural Features	6. The total area of earthworks in any 12-month period must not exceed: a. 50m^2 where located in the coastal environment b. 100m^2 where not located in the coastal environment
High and Very High Coastal Character	7. The total area of earthworks must not exceed 100m^2 in any 12-month period.
Outstanding Coastal Character	8. The total area of earthworks must not exceed 50m^2 in any 12-month period
All zones	**Matters of discretion if the standard is breached:** 1. The stability of land or structures in or on the site or adjacent sites. 2. The visual amenity values and character of the surrounding area. 3. The natural landform and the extent to which the finished site will reflect and be sympathetic to the surrounding landform. 4. The retention of silt and sediment on the site and the control of dust. 5. The staging of earthworks. 6. The total area of exposed soils at any point in time.
INF-S18	**Earthworks and vegetation removal — Reinstatement**
All Zones	1. As soon as it is practicable, but no later than three months after the completion or stage completion of earthworks or vegetation removal, the earthworks and/or vegetation removal area must be stabilised with replacement planting or sealed, paved, metalled, or built over. **Matters of discretion if the standard is breached:** 1. The timing and duration of the works. 2. The retention of silt and sediment on the site and the control of dust. 3. Land stability. 4. The visual amenity of the surrounding area.
INF-S19	**Earthworks — In relation to Sites and Areas of Significance to Māori**
All Zones	1. The earthworks must not exceed 600mm in width. 2. The earthworks must be located directly above existing underground infrastructure. **Matters of discretion if the standard is breached:** 1. The potential impacts of the proposed earthworks on the values of significance to Mana Whenua associated with the site/area. 2. Any mitigation proposed to address the impacts of the earthworks on the values of significance to Mana Whenua associated with the site/area, including timing, duration, methods, accidental discovery protocols and rehabilitation of the site/area.
INF-S20	**Removal of indigenous vegetation**
All Zones	1. Vegetation removal is exempt from this standard if it is: a. Addressing an imminent threat to people or property represented by deadwood, diseased or dying vegetation, b. Necessary to ensure the safe and efficient operation of any formed public road or access, c. Within 3m from the exterior of existing infrastructure buildings or structures, d. Within 1m width either side of an existing fence, e. Located underneath existing lines, f. No more than 2.5m in total width for maintenance of public access track (where undertaken by central government, local government, or their agents),

	g. Required in accordance with sections 43 or 64 of the Fire and Emergency New Zealand Act 2017, or h. For the removal of pest plants.
Outstanding Natural Landscapes	2. The total area of indigenous vegetation removal in any 12-month period must not exceed: a. 200m^2 where located outside the Coastal Environment, and b. 100m^2 where located within the Coastal Environment
Outstanding Natural Features	3. The total area of indigenous vegetation removal in any 12-month period must not exceed: a. 100m^2 where located outside the Coastal Environment, and b. 50m^2 where located within the Coastal Environment
Outstanding Coastal Natural Character Areas	4. The total area of indigenous vegetation removal in any 12-month period must not exceed 50m^2.
High and Very High Coastal Natural Character Areas	5. The total area of indigenous vegetation removal in any 12-month period must not exceed 50m^2.
All zones	**Matters of discretion if the standard is breached:** 1. The effect of the vegetation removal on the identified values and characteristics of the overlay.
INF-S21	**Upgrading of transmission lines not regulated by the NESETA**
All Zones	1. The upgrade must not include any new or relocated support structures. **There are no matters of discretion if the standard is breached.**