

**Waipapa Papanui-Innes-Central Community Board
Information Session/Workshop
MINUTES ATTACHMENTS**

Date: Thursday 13 February 2025
Time: 5.39 pm
Venue: Board Room, Papanui Service Centre,
Corner Langdons Road and Restell Street, Papanui

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Emmett & Riselaw Streets – Trees & Powerlines

(Road Amenity & Asset Protection
Transport Operations)

Purpose/Origin

- Investigation of the issue of non compliance with street trees and the Electricity (Hazards from Trees) Regulations.
- Citywide tree survey identifying tree attributes, type of line, clearance distances, priority, potential options for pruning or engineering solution
- Options considered including decommission of street light line, aerial bundles & undergrounding, extension/shift of main lines on cross arms, pole shifts, modification of street crossovers & house connections
- Determination of need for removal (of 20 trees) as a result of above
- Replacement planting plan as a work in progress for coming season
- Questions & Answers

Background - Electrical Compliance Project

- CCC & Orion have been working on project since 2021 to achieve 100% compliance with the Regulations.
- To date only approx. 170 trees (from original 850) left to resolve.
- Currently final design plans approved and in pricing with work planned for remainder of financial year.
- This involves modification to the electrical network in several streets across the City.
- Most significant work remains in Emmett Street which requires the removal of 14 trees.
- Thereafter becomes ongoing maintenance and management which may identify 'compliant' but poor condition trees in vicinity of network.

Background – Info from Orion

- Property owners and electricity distribution companies are legally responsible for keeping our community's electricity supply safe and secure.
- Trees and vegetation growing too close to power lines are hazardous and a major cause of unplanned power outages, especially in storm conditions.
- As a tree owner you have a responsibility to look after your trees. The [Electricity \(Hazards from Trees\) Regulations 2003\(external link\)](#) updated in October 2024, provides guidance on owner's responsibilities
- If you have trees close to power lines you are liable if your trees damage any lines or equipment on the electricity network. The word "trees" includes all types of vegetation including shrubs, hedges and climbing vines.

Hazards from trees that are too close to power lines:

- Fire caused by electrical sparking from vegetation coming into contact with lines.
- Risk of electrocution for children or anyone climbing trees close to power lines.
- Risk of electrocution from vegetation becoming electrically live in severe weather conditions.
- Trees and vegetation causing power outages.
- Tree roots can grow around underground cables, damaging the insulation and causing power supply failure.

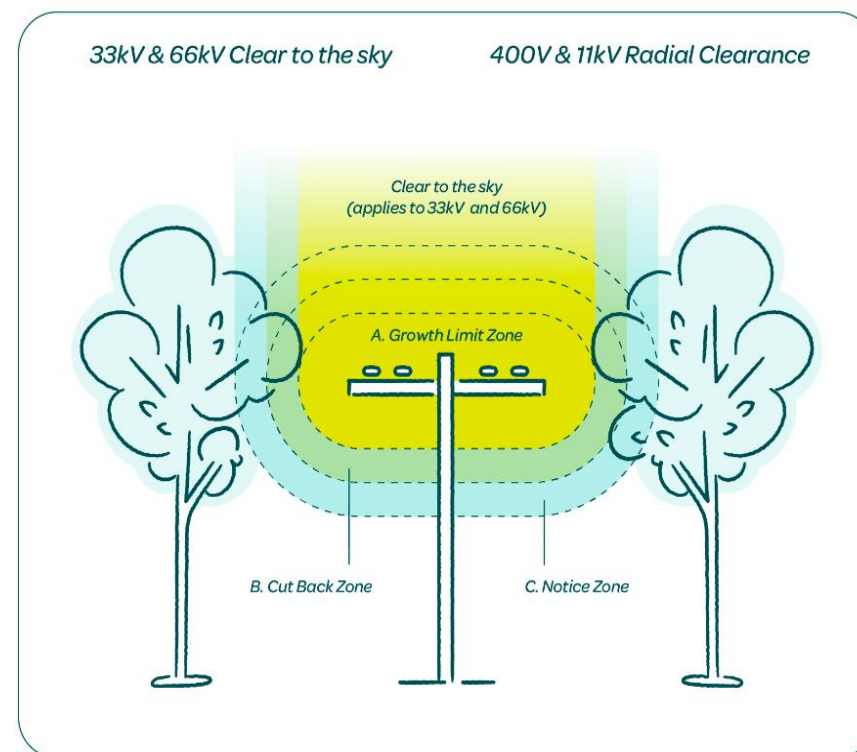
Background – Info from Orion

Clearance zones

Growth Limit Zone - Vegetation should remain out of this zone under all conditions.

Cut Back Zone – When vegetation is cleared, it is to be removed so that it does not enter this zone. A hazard warning notice maybe issued to warn of clearance requirements.

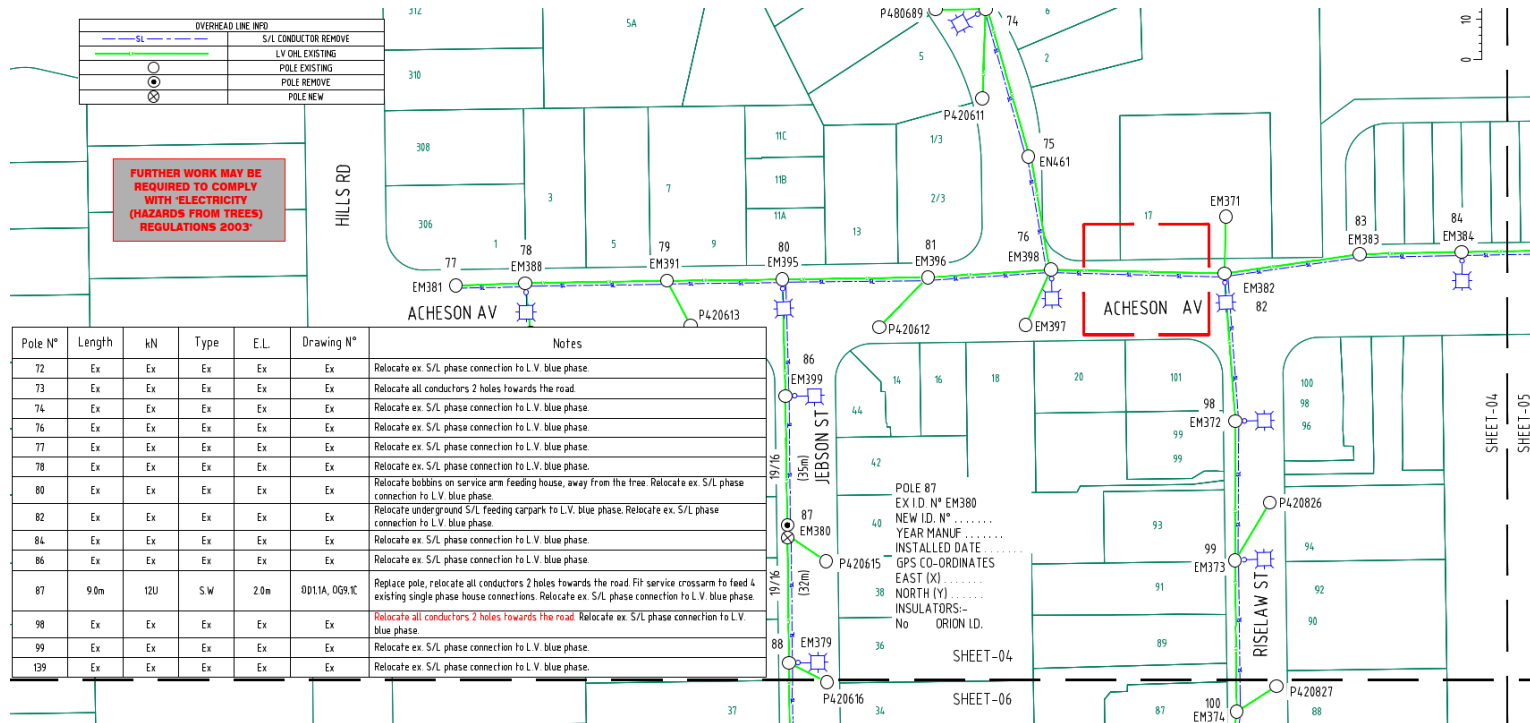
Notice Zone – If vegetation enters this zone, a hazard notice maybe issued to warn of clearance requirements.



Background – Info from Orion

<i>Overhead Line Voltage</i>	<i>Growth Limit Zone</i>	<i>Cut Back Zone</i>	<i>Notice Zone</i>
<i>230-400 V</i>	<i>0.5m</i>	<i>1.5m</i>	<i>2.5m</i>
<i>11 kV</i>	<i>1.6m</i>	<i>2.6m</i>	<i>3.6m</i>
<i>33 kV (clear to the sky)</i>	<i>2.5m</i>	<i>3.5m</i>	<i>4.5m</i>
<i>66 kV (clear to the sky)</i>	<i>4.0m</i>	<i>5.0m</i>	<i>6.0m</i>

Plan - Eg of Design




Photos – Non Compliant Tree (Powerline modification)




Photos – Non Compliant Tree (Pruning)


CCC Tree ID Number	Tree Address (along street)
43767	23 Emmett Street
Due to tree being in contact with overhead lines this tree will have a large limb removed (pruned) in order to retain the tree and gain powerline compliance.	
	

Photos – Non Compliant Tree (Removal)

CCC Tree ID Number	Tree Address (along street)
43749	45 Emmett Street (corner of Emmett and 2 Praem)
Due to tree being in contact with overhead lines, and no suitable engineering or pruning options, this tree is to be removed.	
	

Photos – Other trees (Removal)

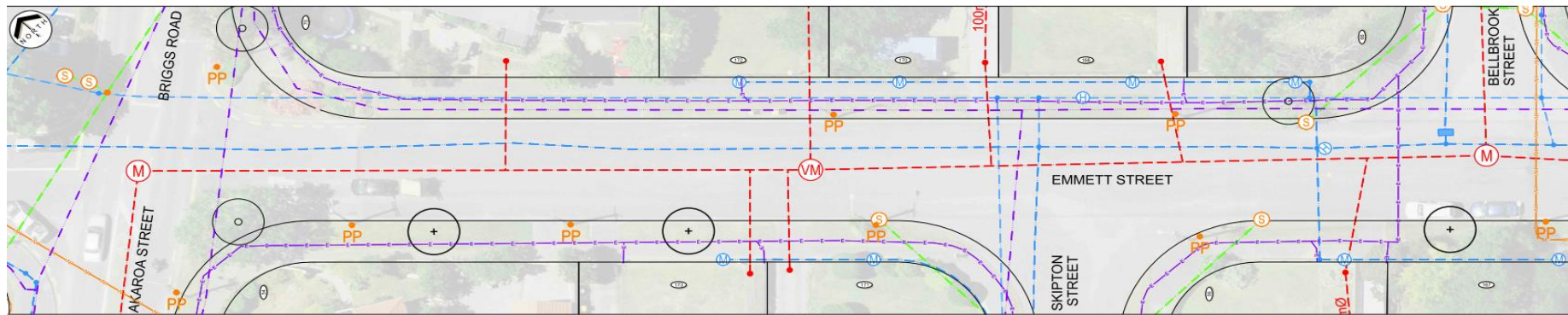
CCC Tree ID Number	Tree Address (along street)
44211	123/125 Emmett Street
Due to poor canopy health/structure and proximity to overhead powerlines, this tree is to be removed.	
	

CCC Tree ID Number	Tree Address (along street)
44204	139 Emmett Street
Due to poor structure and proximity to overhead powerlines this tree is to be removed.	
	

Plan – Replacement planting plan




- We have a draft base plan indicating underground services in the street
- This also indicates some potential planting locations based on available space
- Next step is to plot existing trees identifying removals and then ground check the planting locations
- This will inform possible species selection which will also be dependent on stock availability
- We will progress this work through March to finalize plan for circulation in April
- Planting season commences soon after in May through to August

Plan - Eg of draft planting plan (showing services & trees)















PLAN
1:200 @ A1
1:400 @ A3

Legend

-  Existing trees to be removed
-  Existing trees to be retained
-  Proposed trees

DRAFT

SERVICES LEGEND	
SEWER	
WATER	
STORMWATER	
ORION (Cables)	
ORION (HV cables)	
TRANSPOWER	
ROCKGAS	
TELECOMMUNICATIONS:	
CHORUS (Cables)	
CHORUS (Gas)	
CHORUS (Fibre)	
VODAFONE	
ENABLE	

Attachment A Item 2

Questions & Answers
