

## Introduction

The Kaipara District Council (KDC) Engineering Standards (ES) sets out the processes and standards that are expected to be followed and met whenever any development project is undertaken within the district. The ES recognizes that KDC and other network operators will become the owners and operators of roads and other infrastructure, which are created and vested in the land development process.

It is important that KDC and the community have confidence that the infrastructure and associated systems are competently designed and constructed in a manner which ensures that they are fit for purpose and can be expected to last well into the future.

KDC has chosen to adopt, as its ES, the majority of the Whangārei District Council's Engineering Standards (WDC ES) and the transport chapter of CoLAB's Regional Infrastructure Technical Specifications (RITS). The WDC ES has the benefit of being a widely used standard in Northland. Consistency with the Kaipara District's northern neighbour has benefits for users of the standards. The RITS transport chapter is considered to more appropriate than the transport chapter of the WDC ES, for the building of roading and associated infrastructure within the Kaipara District. This approach reflects Council's desire to facilitate growth and achieve the vision of "Kaipara – the place to be".

The Council does not wish to restrict innovation in how infrastructure is provided. Accordingly, the Council may, at its sole discretion, approve alternative designs provided it is satisfied that the alternative designs will achieve an equivalent function, and performance incorporating optimised whole of life outcomes, against the recommended standards specified in the engineering standards.

KDC seeks long term solutions to the provision of appropriate infrastructure. KDC welcomes collaboration with developers to address impacts on down-stream catchments and to future proof the Council's asset network taking into account strategic asset development plans.

Tools to facilitate growth may include the use of development agreements, financial contributions, and consent conditions providing for staging of infrastructure."

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## How to use the KDC Engineering Standards

The KDC ES are made up of 3 parts:

1. Part 1: KDC has adopted Whangārei District Council’s Engineering Standard (2022) (WDC ES) Chapters 1-2 and 4-8 including relevant drawings and appendices as Part 1 of the KDC ES, subject to the amendments set out in Part 3.
2. Part 2: KDC has adopted the Regional Infrastructure Technical Specifications (RITS) Chapter 3 Transport (Version 1) and relevant drawings, forms and checklists as Part 2 of the KDC ES, subject to amendments set out in Part 3.
3. Part 3: outlines amendments to the parts of the WDC ES and the RITS that have been adopted by KDC and includes supporting notes and KDC specific technical requirements for the Kaipara District, to be used in conjunction with standard documents.

Parts 1 and 2 of the KDC ES can be accessed via the links to these chapters on the KDC’s website.

Part 3 of the KDC ES is set out below.

### Part 1 of the KDC ES: WDC ES Chapters adopted by KDC

<u>WDC Engineering Standards 2022</u>
1. General
2. Site Development
4. Stormwater and Drainage
5. Wastewater
6. Water Supply and Reticulation

7. Public Spaces
8. Electrical Telecommunications and Gas
Appendices -Checklists and supporting information
Drawing Sheets

**Part 2 of the KDC ES. RITS Transport Chapter adopted by KDC**

<u>Regional-Infrastructure-Technical-Specification-V1.0</u>
3. Transport

## Part 3 of the KDC ES: Supporting notes and specific technical requirements

KDC has generally adopted Chapters 1-2 and 4-8 and relevant drawings and appendices of the WDC Engineering Standards 2022 as Part 1 of the KDC ES, and Chapter 3 of the RITS as Part 2 of the KDC ES. However, some amendments are required to the wording of those standards for their use in the Kaipara District. These are set out below.

Where there is any conflict or ambiguity between engineering or infrastructure standards specified in rules contained in the Kaipara District Plan and the engineering or infrastructure standards specified in the ES, the standards specified in the District Plan rule will take precedence.

If the engineering matter relates to transportation, refer to the transportation chapter of RITS with reference to the specific amendments set out by section in the RITS Transport Amendments document.

For all other engineering matters refer to WDC ES with reference to the specific amendments set out by section in the WDC Chapter Amendments document.

Any KDC modifications to these standards are highlighted in the RITS Transport and WDC Chapters documents by a red cloud shown below. These highlighted areas correspond to the amendments listed in the RITS Transport Amendments and WDC Chapter Amendments documents.



## WDC ES Chapters adopted by KDC as Part 1 of the ES

Where WDC or Whangarei District Council is referenced, this shall be read as KDC or Kaipara District Council unless this relates to WDC specific documents.

WDC ES	KDC
WDC Transport chapter	RITS Transport Chapter (adopted by KDC as Part 2 of the KDC ES)
District Plan	Operative Kaipara District Plan or Proposed District Plan

Unless otherwise stated in the amendments, referenced documents will also be applicable to Kaipara District.

## RITS Transport Chapter adopted by KDC as Part 2 of the ES

Kaipara District Council acknowledges the Waikato Local Authority Shared Services and Co-Lab for the use of the Regional Infrastructure Technical Specifications [insert date/version] (RITS).

This chapter sets out the requirements for the design and construction of transportation infrastructure (including accessways) associated with land development, subdivision and transportation improvements/upgrades within the Kaipara District.

KDC has adopted the RITS as its engineering standards for transportation infrastructure.

The requirements of the RITS shall apply to all such transportation infrastructure whether to be vested in KDC or retained in private ownership and whether initiated and undertaken by a Developer or by KDC.

Any reference to other RITS chapters should be referred to the applicable WDC Chapter.

Referenced documents or entities throughout the RITS specific to the Waikato region shall be replaced with the corresponding documents or entities relevant to the Northland region:

RITS	KDC
'the Council', 'Council' or 'relevant council'	Kaipara District Council (KDC)
'relevant District Plan'	Operative Kaipara District Plan or Proposed District Plan
Waikato Regional Council (WRC)	Northland Regional Council (NRC)
Waikato Regional Plan	Regional Plan for Northland
Waikato Regional Plan Policy Statement	Regional Policy Statement for Northland
City Transportation	KDC Transportation Department

Any other documents referenced in the RITS specific to the Waikato region shall not apply to the Kaipara District. Referenced departments or persons throughout the RITS specific to the Waikato region shall be replaced with the corresponding departments or persons relevant to the Northland region or Kaipara District.

## Document Control:

<b>Version</b>	<b>Comments</b>	<b>Author</b>	<b>Date Finalised</b>	<b>Approved by</b>	<b>Date Approved</b>	<b>Date Effective</b>
01	Initial draft based on WDC Issue 0.4 and RITS V1.0					

Where any amendments are made to the versions of the WDC ES and the RITS Transport Chapter that have been adopted by KDC as parts of the KDC ES, the KDC ES will not change automatically to reflect this. These changes would need to be considered by KDC and would only be incorporated into the KDC ES if it was determined by KDC that it was appropriate to amend the KDC ES.