TRANSPORT

Slope Site

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RAMS and Asset Acceptance Definition and Management Guide

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About this release

Title:	RAMS and Asset Acceptance Definition and Management Guide – Slope Site
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Issue	Date	Revision description
1.2	October 2025	Change Reason table removed. Section 5 inserted, subsequent sections updated.
1.1	July 2025	Updated references and style
1.0	August 2021	Initial Release

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1 About this guide

1.1 Who should read it?

This guide is for TFNSW and external staff that are responsible for the collection, capturing or management of Slope Site information as implemented in Asset Acceptance (AA) and the Road Asset Management System (RAMS).

1.2 What does it contain?

The guide contains Slope Site attribute definitions, management guidelines and business rules that will ensure consistent understanding, collection and maintenance of Slope Site related information within Asset Acceptance and TFNSW Asset Management Systems.

1.3 Technical Details

This guide addresses Slope Site requirements for RAMS and Asset Acceptance only. For full technical details, please see the Slope Site inventory collection guideline.
https://home.transport.nsw.gov.au/sites/techinfo/info-about/SitePageModern/77710/corridor-asset-management-info-about

1.4 Need more information?

If you need more information or have a question that this guide doesn't answer, please contact:

Prioritisation and Asset Management, , Strategic Asset Management, – Road Asset Information

- Manager Road Information Systems
- Regional Asset Systems Manager

2 Asset Acceptance

TFNSW has created the Asset Acceptance Information Template (AAIT) which is available to assist in the collection of Slope Site data and validating the integrity and completeness of the collected data.

The template is available by download direct from the TFNSW Standards Portal link below or by contacting a TFNSW Asset Officer for the latest published version.

After obtaining a copy of the AAIT, save the copy to your desired location ready for use.

It is the responsibility of the template user to ensure that they are using the latest published version of the document.

Please search for the latest AAIT template in Transports Standards Portal:
Search Standard · Transport Standards Portal

AAIT training can be downloaded direct from the E-Learning link below.

http://home.TfNSW.nsw.gov.au/tools/techinfo/info_about/asset_mgmt/training/asset_acceptance_elearning.html

Where to enter Slope Site data into the AAIT:

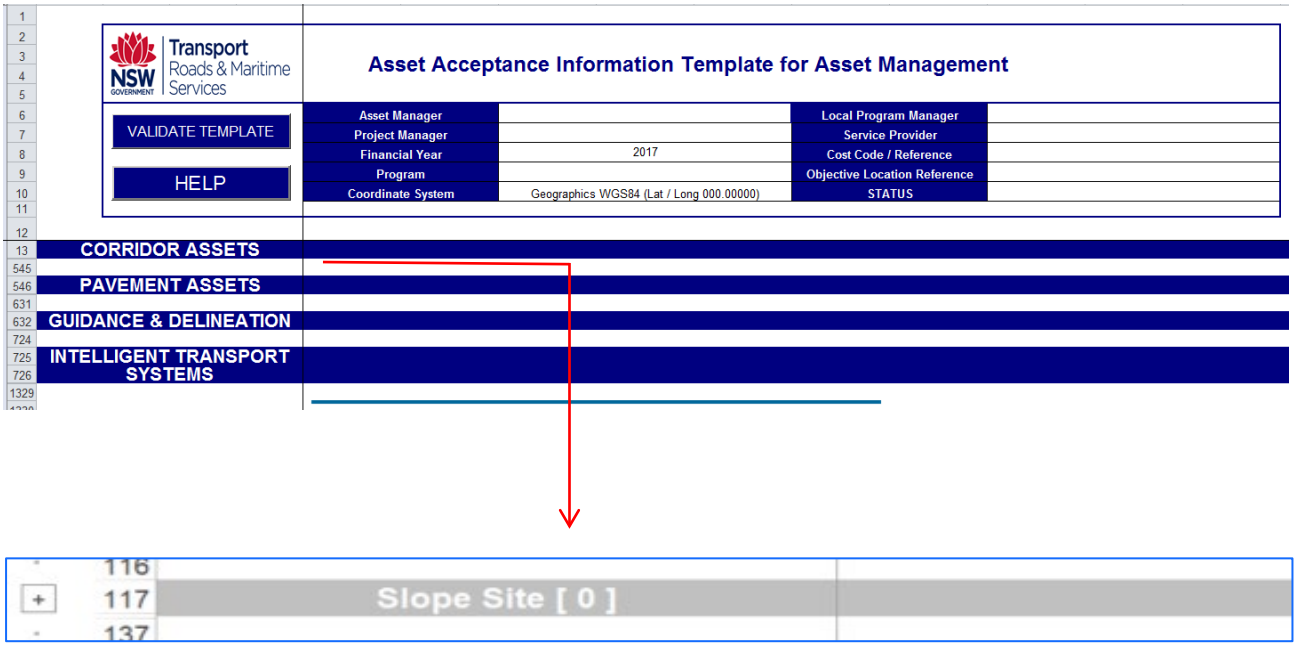


Figure 1 - Asset Acceptance Information Template

Note: The use of the AAIT is not mandatory but if an alternative is used to produce the required data files, the Project Manager is responsible for the integrity and completeness of the collected data and output data files in the correct format to satisfy Asset Management handover requirements.

3 What is a Slope Site

A Slope Site is the location of all geotechnical structures associated with state roads including batters, cuts, fill embankments, natural slopes above and below the road, structures such as retaining walls and reinforced soil walls, spill-through abutments and associated retaining structures (not structurally connected to a bridge abutment) and other devices.

Figure 2 – Slope Site

Slope Site locations are defined using RAMS linear referencing system (*RoadLoc*). Every Slope Site must have its start and end location details recorded based on a RoadLoc reference.

RoadLoc definition available by download direct from TechInfo – RAMS Linear Referencing

4 Data Definitions – Slope Site Attributes

4.1 Construction Date

- Date when all structural works have become Live on the Network
- Mandatory attribute
- Format
  - dd/mm/yyyy

    Example: 01/06/2018

4.2 Start/End Latitude

- Location of Slope Site in relation to the road carriageway
  - Geographics WGS84 decimal latitude / longitude
- Mandatory attribute
- Decimal places
  - 5
- Range.
  - -38.00000 to -28.00000

    Business Rules
- If longitude is given as part of the location, a corresponding latitude is mandatory
- When collecting data using the AAIT, the template data extraction and RAMS loading processes will automatically calculate and store the RoadLoc location

  Example: -32.56891

4.3 Start / End Longitude

- Location of Slope Site in relation to the road carriageway
  - Geographics WGS84 decimal latitude / longitude
- Mandatory attribute
- Decimal Places
  - 5
- Range.
  - 141.00000 to 154.00000

    Business Rules
- If latitude is given as part of the location, a corresponding longitude is mandatory.
- When collecting data using the AAIT, the template data extraction and RAMS loading processes will automatically calculate and store the RoadLoc location.

Example: 151.23458

4.4 Road

- The classified road number assigned to a road
- Mandatory attribute (1 to 9999)

Example: 0000010

4.5 Start/End Carriageway

- Carriageway codes are used to identify specific 'link carriageway' types.
- Mandatory attribute
- Carriageway Code assigned at the Start/End of Carriageway
- Format
  - ° Text (A to Z)
- Version Number assigned at the Start/End of Carriageway
- Format
  - ° Numerical (1 to 9)

Example: A10

4.6 Start/End Link

- Links are manageable lengths of major roads used in RAMS.
- Mandatory attribute
- Format
  - ° Numerical (1 to 9999)

Example: 0110

4.7 Start/End Link Distance

- Distance on all roads as measured in the prescribed direction from the reference feature at the start Node
- Mandatory attribute
- Format
  - ° Linear Metre
  - ° Numerical (0 to 99)
  - ° Decimal places (3)

Example: 0.001

4.8 Segment Number

- Number assigned to segments, usually in multiples of 10, starting at 10.
- Valid TfNSW Maintenance Segment No
- Mandatory attribute
- Format
    - ° Four character or number with leading zeros

4.9 Chainage/End Start

- Commonly known as ROADLOC distances
- Format
    - ° Linear Metre
    - ° Numerical (0 to 99)
    - ° Decimal places (3)

4.10 Slope Site Type

- Mandatory attribute
- Format
    - List of values

4.10.1 Table 1 – Slope Site Type list of values

Value	Description	Visual Example
F1	Cut	 Figure 3 - Cut example

Value	Description	Visual Example
F2	Fill	 Figure 3 – Fill (mid left) example
F3	Flat	 Figure 4 - Flat example
F4	Slope Above	 Figure 5 – Slope Above (top right) example
F5	Slope Below	Figure 6 – Slope Below example

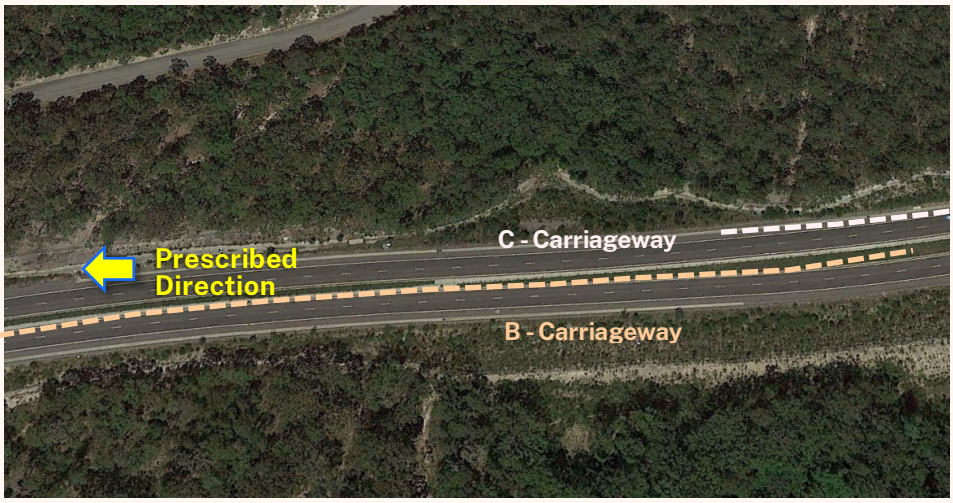
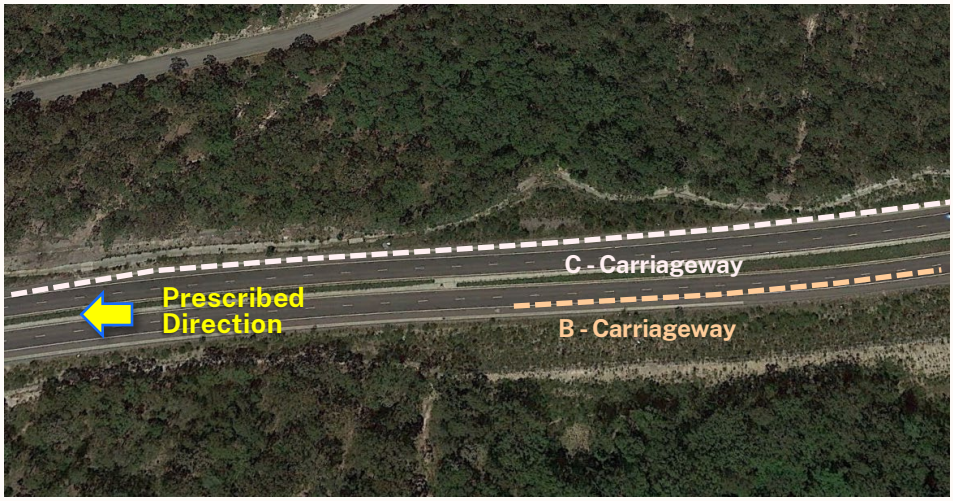
Value	Description	Visual Example
F6	Bridge Abutment	 Figure 7 – Bridge Abutment example
F7	Feature	Figure 8 - Feature example
F8	Structure Above	 Figure 9 – Structure Above example
F9	Structure Below	 Figure 10 – Structure Below example

4.11 Side

- Side of the carriageway the slope site is located when travelling in the prescribed direction.
  - Prescribed direction definition available by download direct from TechInfo – RAMS Linear Referencing
- Mandatory attribute

- Format
  - List of values

4.11.1 Table - Side of Road list of values

Value	Description	Visual Example
L	Left	 Figure 11 - Left Side of Road
	Right	 Figure 12 - Right Side of Road

4.12 Plan Reference Details

Plan, page and design no

Slope Site

4.13 Comments

- Enter any relevant information about the Slope Site.
- Preferred attribute
- Format
  - Maximum 200 characters

    Example: 200mm south of emergency phone 661

4.14 WBS

- Cost code or reference of the financial allocation for works on the site
- Mandatory attribute
- Format
  - Maximum 40 characters

    Example: P0010656.05.101.009.003

5 Remove or Modify Asset

- Slope Site will only be removed / end dated if the entire Slope Site location is moved.
- All other Slope Site modifications require updating of existing asset attributes.
- For a new asset record, this cell is to be left “Blank”.
- This function is designed to end date a current asset record from RAMS or to update the attributes of a current asset record in RAMS.
- On selecting “Remove Current Record” The identifying attributes of the asset are highlighted in light blue. Insert values into the highlighted cells, the TfNSW Asset Officer will manually end date the record in RAMS.
- Ensure the Decommissioned Date is the date the Asset is no longer “live” on the network.
- On selecting “Update Current Record” The identifying attributes of the asset are highlighted in light blue. Insert values into the highlighted cells, the TfNSW Asset Officer will manually update the record in RAMS.
- Update the attributes you wish to change with new values.

6 Authorisation

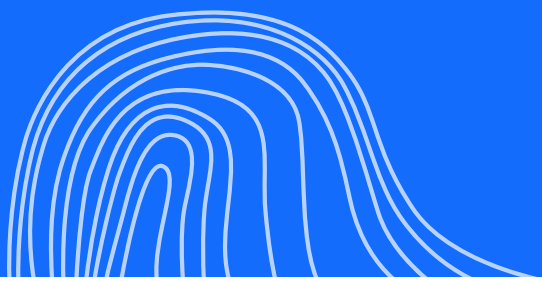
6.1.1 Table 1 - Authorisation

Date	Version	Position
October 2025	1.2	Manager Road Information Systems
July 2025	1.1	Manager Road Information Systems
August 2022	1.0	Manager Road Information Systems
		Corridor Assets Manager

7 Reference Documents

7.1.1 Table 2 - Reference Documents

Title	Location
Schedule of Classified Roads	https://www.transport.nsw.gov.au/system/files/media/documents/2023/classified-roads-schedule-1.pdf
Linear Referencing	https://home.transport.nsw.gov.au/documents/sppreview/fe3f1a30-b71e-4c22-b56a-dee032a19d31
Slope Asset Management Policy	https://home.transport.nsw.gov.au/documents/sppreview/ff9ed515-fb5e-4847-bf56-2739d899f663
Slope Site Inventory Collection Guideline	http://home.rta.nsw.gov.au/tools/techinfo/info_about/corridor_asset_mgmt/index.html
Ground Anchor Maintenance Risk Management	https://home.transport.nsw.gov.au/documents/sppreview/db17b1b7-716b-4db2-a753-d286082067e5
Inspection Maintenance Framework for Ground Anchor	https://home.transport.nsw.gov.au/documents/sppreview/fa5c4d83-1f93-4cbd-8a91-5642aa187102



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