FORM F - ENGINEERING PLANS

The following information is to be provided when submitting Engineering Plans for assessment. It is important to note that doing so will assist in the efficient and effective processing of the application. The turnaround time for all application received is twenty (20) working days.

Note: The requirements listed below must be lodged at The Department of Town and Country Planning or the respective Local Authority.

	REQUIREMENTS - To be submitted but not limited to:	No. of Copies
1	Coloured copy of the Approved Scheme Plan drawn to Scale	2
2	Locality Plan – The plans provided MUST be readable and clear and MUST include names of roads, landmarks & features	2
3	Contact – Provide postal address, email, phone contact of applicant/ agents	N/A
4	Soft copy of Application in DWG and PDF files to be provided	1
5	Information to be provided in the Engineering plan and submission as per FRA standards and Specifications *https://www.fijiroads.org/wp-content/uploads/2026/01/FRA-Roadworks-Standards-and-Specifications.pdf* *https://www.fijiroads.org/wp-content/uploads/2026/01/FRA-Rev_Dec-2020.pdf* **a. Scheme Plan:** Provide current/approved scheme plan and its conditions of approval. If the site has been rezoned, then provide rezoning plan with conditions of approval. **b. Legal Description:** Provide legal description for the site. Copy of the Approved Survey Plan for the site to be also provided. **c. Exit and Entry Points:** Provide dimensions/locations. Exit/entry points to be located at least twenty-five (25) metres away from the nearest intersection or bus-stop. Sizes of vehicular crossings shall be as follow: • Residential three and a half (3.5) metres wide (light vehicles crossing standard) • Commercial/Industrial seven (7) metres wide (heavy vehicles crossing standard) • FRA reserves the right to amend the sizes of the vehicular crossing based swept path analysis. Sizes of the culvert for the vehicular crossing to be determined by the sizes of the drain. Developers to ensure that storm water from the site should not overflow onto the road reserve and vice versa. **d. Drainage:** Show Drainage Provisions (in relation to road). Site to be drained into a legal drainage easement. Applicant/Developer shall be responsible for any upgrades required to the existing drainage infrastructure. **e. Developer Contributions:** Any upgrades required to FRA assets as a result of the development will be required to be carried out at the developer's cost to FRA standard, specification and satisfaction. This could include but not limited to: • Upgrade to the existing road • Acceleration/de-acceleration lane • Streetlights to FRA standards and guides. • Bus bays/Shelter • Footpath at least two (2) metres wide • Safety improvements (guardrail, pedestrian crossing, raised medians, reflectors, bollards, line-marking, etc) • Monetary contribution	FOR OFFICIAL USE ONLY

310 0114 | planning@fijiroads.org

REQUIREMENTS - To be submitted but not limited to:

f. **Contours:** to be provided at 5 metres intervals

g. **Earthworks:** Provide proposed earthworks plan – cut & fill.

h. **Stormwater Plan:** Hydrological report to be submitted where applicable (report to be certified by a registered/qualified Hydrologist). Include catchment area, inlet/outlet and connection to legal/existing drainage system. Provide stormwater calculations.

Cess Pit: Inspection pit for services be provided at a maximum of 75 metres with 100mm minimum drain installed to drain out the inspection pits. Cess pit be provided at a maximum of 45 metres apart however is to be assessed depending on the topography and volume of stormwater discharge with minimum 375mm drain installed at every cess pit to drain the cess pit.

i. **Layout Plans** includes:
- Existing road layout
- Proposed road layout
- Existing drainage layout
- Proposed drainage layout
- Proposed footpath layout plan
- Proposed streetlight layout plan
- Road signage and road marking plan (Thermal Plastic Line Marking to be used)
- Provide drawing for Services such as sewer, water reticulations, EFL, Telecom

Note: Each layout plan is to be provided on a separate plan/page in addition to a layout plan showing all of the above and on one separate sheet/ plan show all services layout plan in different colours (overlaid). The plan should be readable.

j. **Cul-de-sac:** to be designed as per FRA Standards 2019

k. **Footpath:** A footpath of 2 metres is to be provided. It should be a minimum of 20mpa reinforce 100mm thick concrete slab for Residential Subdivisions and minimum of 25mpa reinforce 150mm – 200mm thick concrete slab for commercial / Industrial Subdivisions.

100mm services conduit to be buried 300mm on verge side of path, with inspection pit for services at every 75m with 100mm minimum drain installed to drain out the inspection pits; minimum 375mm drain installed at every cess pit to drain the cess pit, cess pit spacing generally set out 45m apart however is assessed depending on the topography and volume of storm water discharge.

l. **Streetlights:** All residential areas minimum 60w LED, all other areas minimum 116 LED. The LED luminaires used need to meet the requirements stipulated in the FRA Road lighting Standard & FRA Road Lighting Design Guide.

For residential areas P4 design must be used as pedestrian traffic is predominant in these areas. For arterial roads is V4 design must be used as vehicular traffic is predominant in these area.

All street lighting infrastructure including the luminaires, Poles & Outreach arms must meet the requirements stipulated in the FRA Road lighting Standard & FRA Road Lighting Design Guide.

m. **Service Conduits:** 100mm services conduit to be buried across the road 300mm on to the verge beyond the footpath.

n. **Intersections:** AustRoad Guide to Road Design – Part 4 A: Unsignalised and Signalised Intersections.

	REQUIREMENTS - To be submitted but not limited to:	
	o. **Longitudinal and cross sections:** for roads up to 200m provide cross section detail at 10m interval and all roads more than 200m provide cross section detail at 20m. A typical cross section to be provided. A cross-fall of at least 3-4% to be provided. p. **Retaining Wall:** provide detail on methods and design certified by a registered structural engineer.	

OFFICIAL USE ONLY

Date of Inspection: _____ FRA File Ref: _____

Time of Inspection: _____

Officer: _____ Signature: _____

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____