

# Settlement Road, Main Arm



Traditional home of  
the Bundjalung people

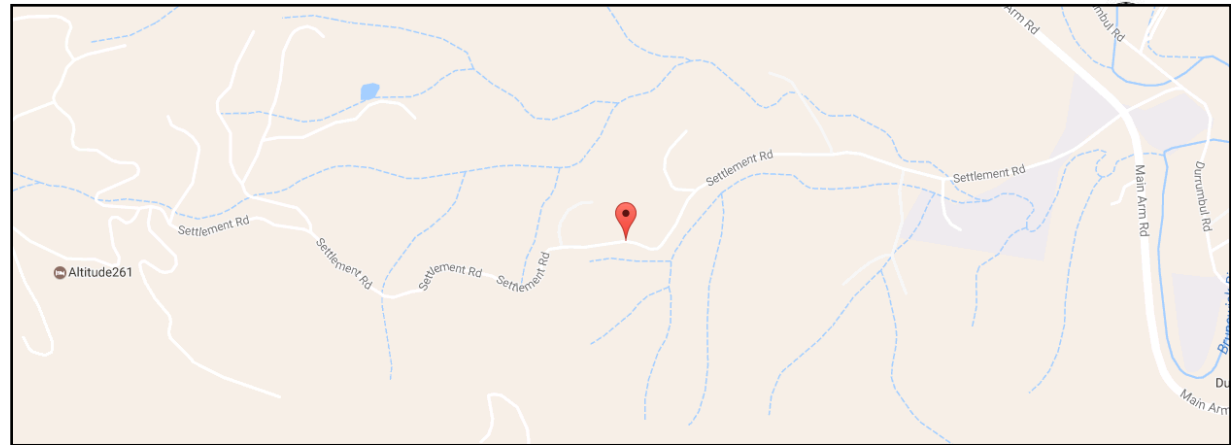


1. Location
2. Background
3. Potential Boundary Adjustments Required
4. RFS Standard vs. NRDG Standard
5. Passing Bays & Other RFS Requirements
6. Intersection at Main Arm Road
7. Settlement Road Action Group
8. Actions Moving Forward

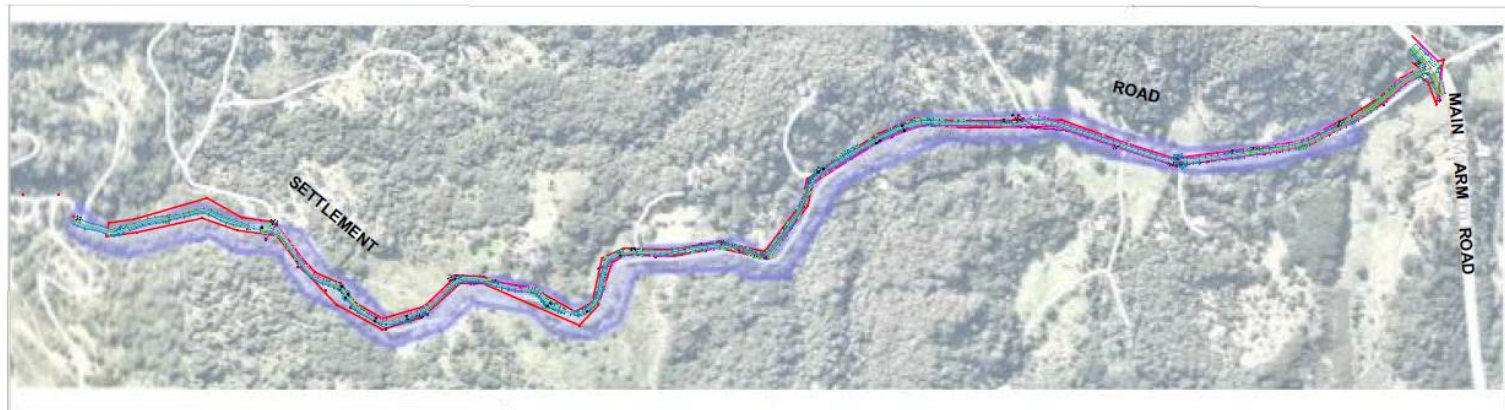


# LOCATION

Settlement Road is located off Main Arm Road, approximately 10-15 minutes west from Mullumbimby.



LOCALITY PLAN

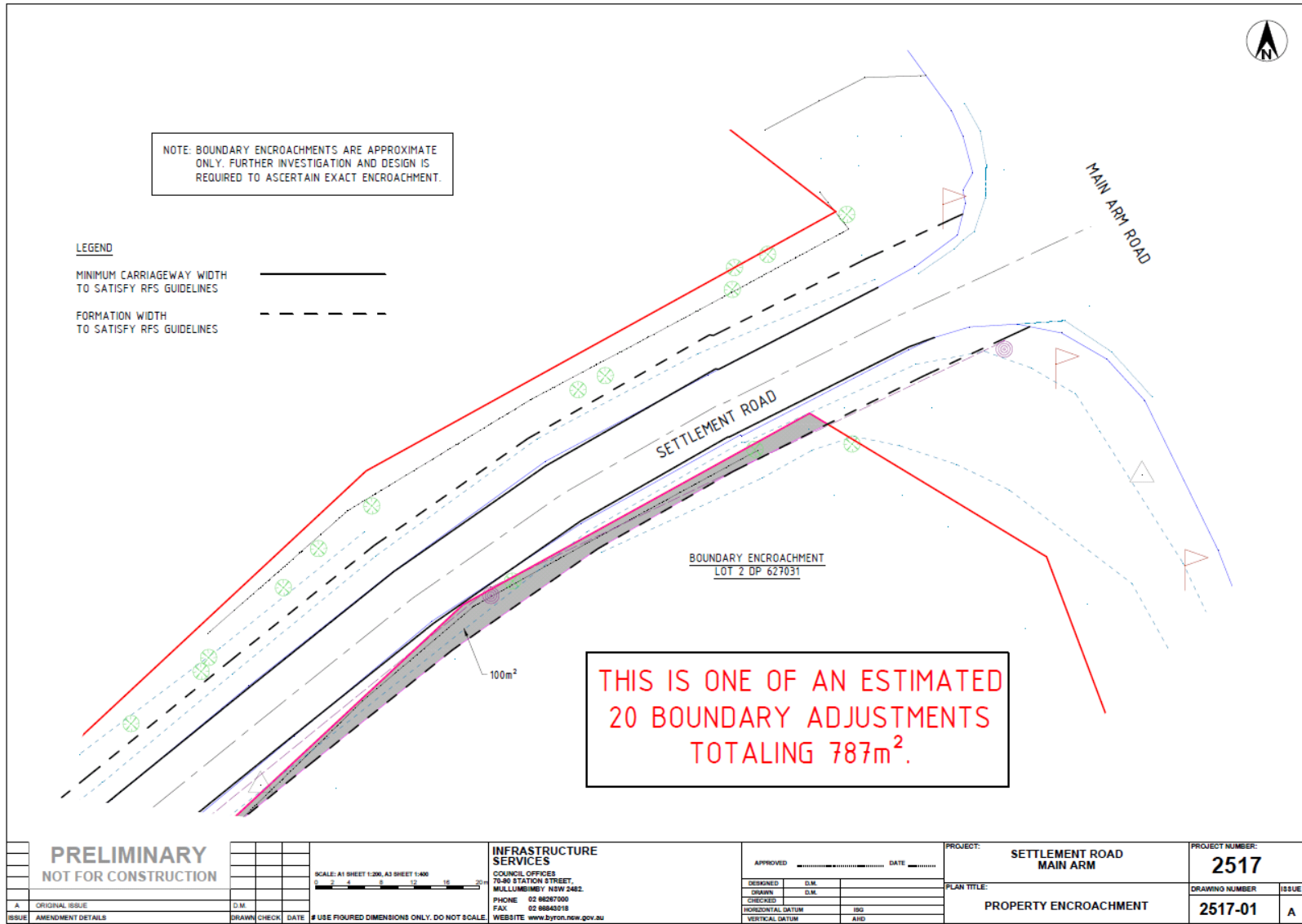


# BACKGROUND

- Settlement Road was re-graded in January 2017
- The rainfall during March-April 2017 has caused damage to the newly re-graded road due to poor drainage throughout.
- Road formation widths are particularly minimal however serve a number of properties.
- Multiple Occupancy DA 10.2014.376.1 conditioned to bring a section of Settlement Road up to RFS standard.
- Local residents have formed the “Settlement Road Action Group”.



# POTENTIAL BOUNDARY ADJUSTMENTS REQUIRED





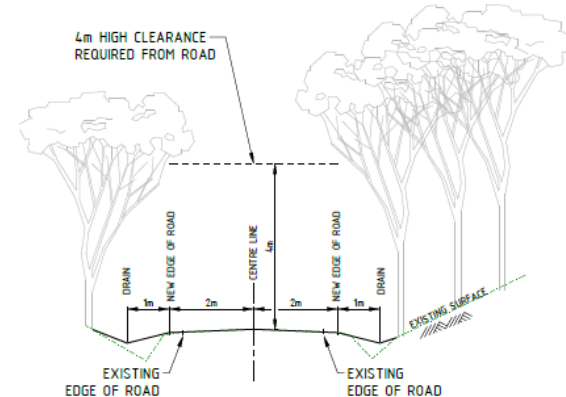
# POTENTIAL BOUNDARY ADJUSTMENTS REQUIRED

## Two Options:

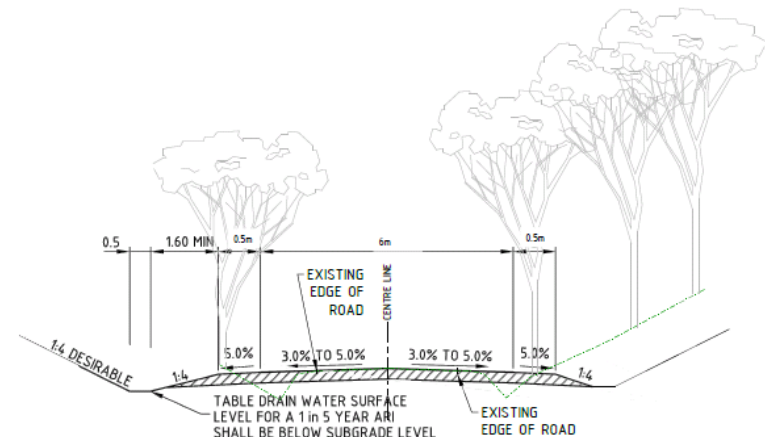
- Option 1 – Realign Settlement Road
  - Will prove difficult due to existing terrain.
  - Require significant earthworks and retaining structures.
- Option 2 – Property Acquisitions
  - Using RFS Standard there are approximately 20 Boundary Adjustments totaling an area of around 787m<sup>2</sup>.
  - Rod Palmer, President of Settlement Road Action Group has mentioned that property owners may be open to dedicating road reserve if the road is brought up to a better, longer lasting standard – and maintained.

# RFS VS. NRDG STANDARD

- Rural Fire Service (RFS) standard requires total formation width of 6 metres including table drains.
- Northern Rivers Design Guidelines for a public road requires a total formation width of approximately 9 metres including table drains.
- Current formation widths are around 3.5 metres, with occasional table drains.
- NOTE: RFS standard is intended to be used for rural property access, not a public road.



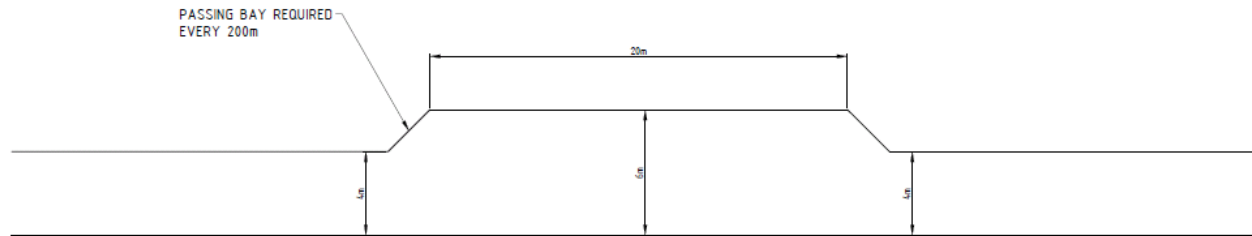
TYPICAL SECTION AS PER  
RURAL FIRE SERVICE - PROPERTY ACCESS  
SCALE 1:100 (A3)



TYPICAL SECTION AS PER  
NORTHERN RIVERS DESIGN GUIDE  
SCALE 1:100 (A3)

# PASSING BAYS AND OTHER RFS REQUIREMENTS

- RFS standard requires passing bays to be located every 200m for the full length of the road.
- Requires steep gradients (>17%) to be sealed with bitumen.
- Minimum vertical clearance to trees must be 4 metres.



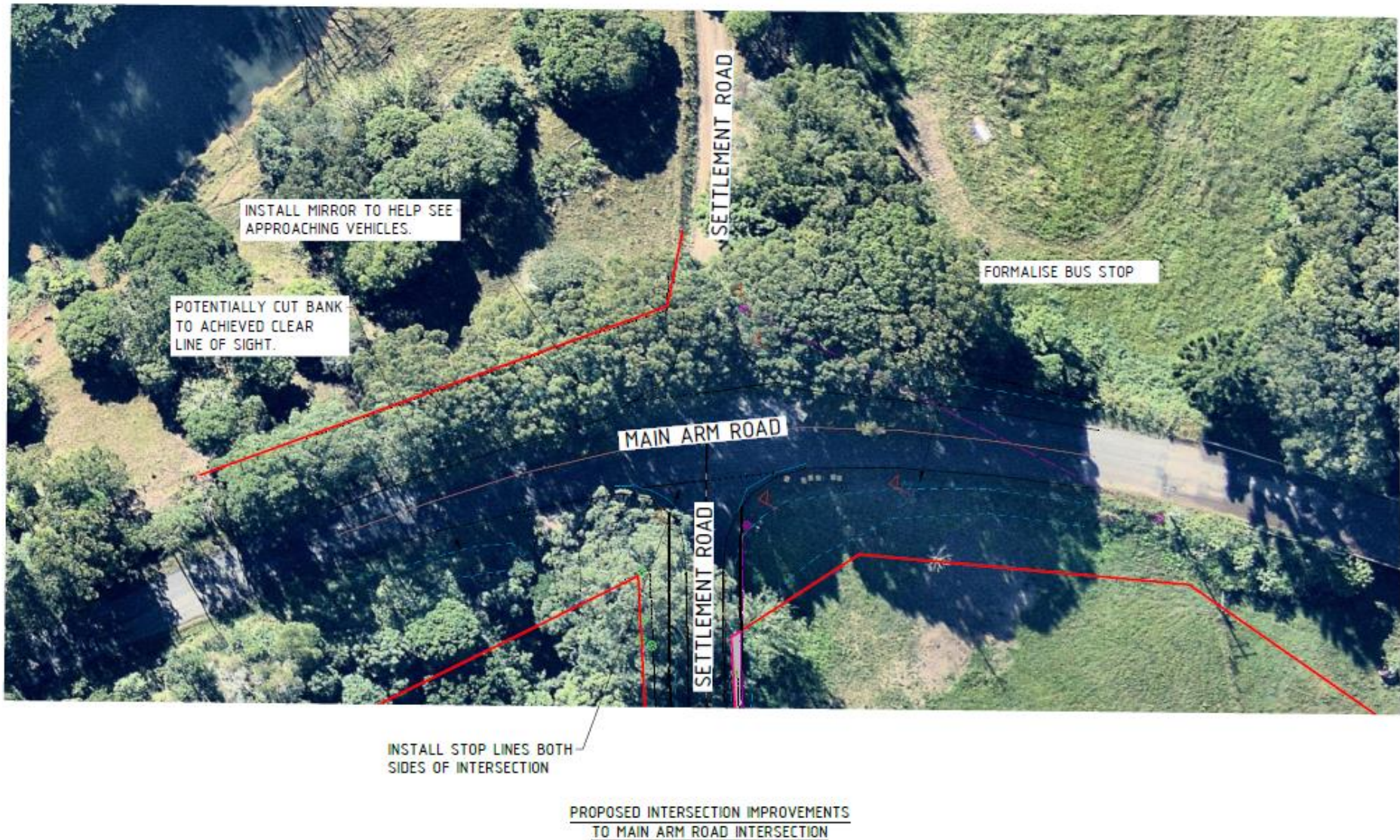
PASSING BAY AS PER  
RURAL FIRE SERVICE - PROPERTY ACCESS  
SCALE 1:200 (A3)

## RURAL FIRE SERVICE REQUIREMENTS

- GRAVEL ROAD MAXIMUM GRADE = 10° OR 17%
- SEALED ROAD MAXIMUM GRADE = 15° OR 27%
- MINIMUM VERTICAL CLEARANCE OF 4m
- MINIMUM INSIDE RADIUS ON CORNERS = 6m
- PIPES AND BRIDGES ABLE TO WITHSTAND 9t PER AXLE - TOTAL 28t
- BRIDGES CLEARLY INDICATE LOAD LIMIT



# INTERSECTION AT MAIN ARM ROAD



# SETTLEMENT ROAD ACTION GROUP

- Settlement Road Action Group formed in 2017.
- President is currently Rod Palmer, 261 Settlement Road, Main Arm NSW 2482.
- Is aware of the Multiple Occupancy DA and their requirement to fund a portion of the works. Has stated that residents may be able to raise further funds if required.
- Has requested action regarding:
  - Storm water pipe repair/replacement
  - Formation widths brought up to RFS standard
  - Sink holes repaired
  - Road brought to a standard that will withstand a flooding event without requiring re-grading.



# ACTIONS MOVING FORWARD

- Agree that RFS standard is to be used when design is undertaken
- Notify Settlement Road Action Group of agreed method of design
- Design road to RFS standard identifying;
  - Drainage upgrades required
  - Land acquisitions required
  - Road surface upgrades required to avoid further damage at next rain event
- Council to resolve to acquire land where identified as part of the design
- Identify potential funding source/s
- Perform work after relevant approvals have been granted (budget, REF etc)

