

A blurred image of a white truck with a blue and white striped pattern on its side, moving from left to right under a concrete bridge. The bridge has several large concrete pillars supporting it. The background is a bright blue sky. The truck is in motion, creating a sense of speed and movement.

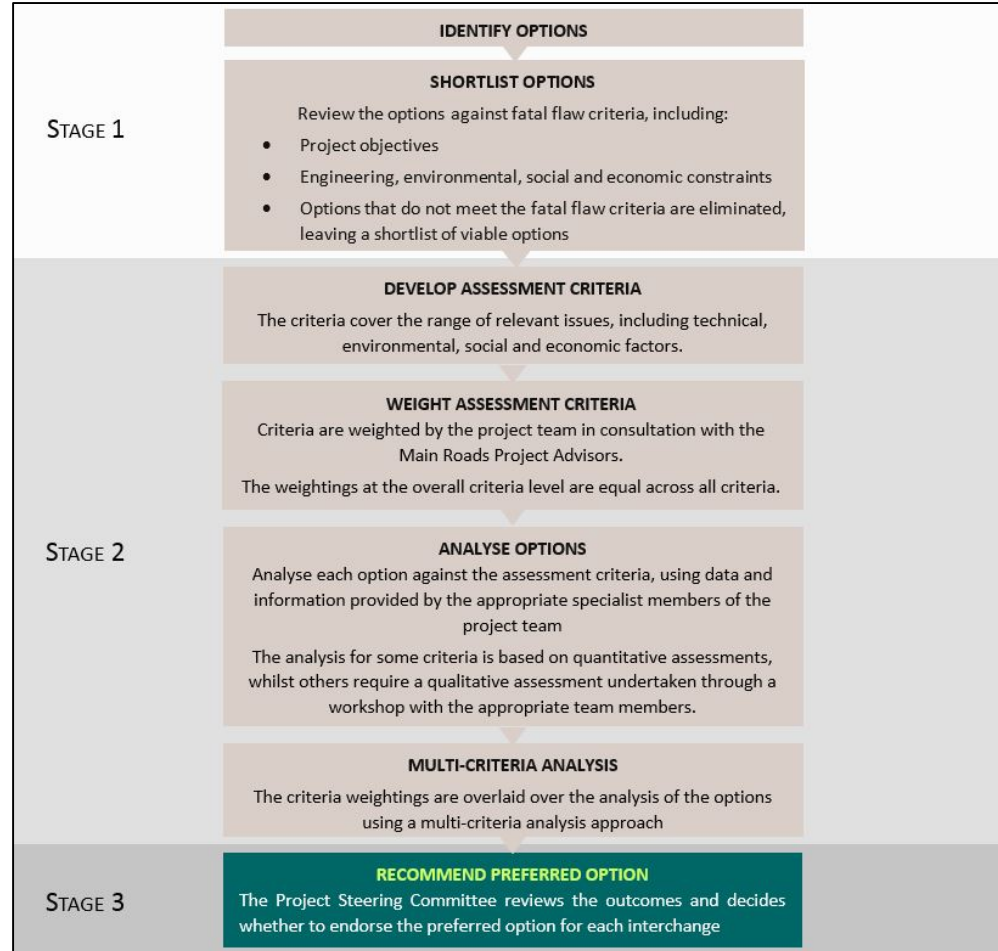
# **Recommended BORR North/Central Interchanges**

**Chris Mitchell**

**Planning and Development Manager**



# Options Assessment Process



# Stage 1 Shortlist Criteria

- Suitability and all movements provided
- Engineering – unsafe / not feasible or appropriate
- Economic – cost prohibitive (e.g. systems interchange)

## Stage 2 – Multi Criteria Assessment

- Assessment developed to integrate social, economic and environmental considerations
- Criteria based on project objectives, IA objectives and IPT objectives
- Twenty eight sub-criteria developed based on likely points of differences
- Sub-criteria weighted by Main Roads and BORR IPT team
- Additive weighting method used to rank each option

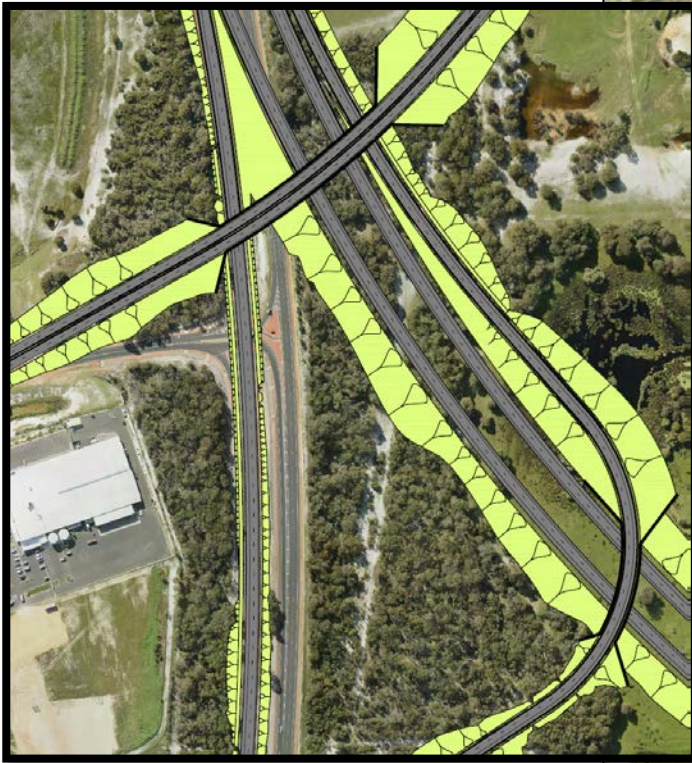


# Northern Interchange (Paris Road – Clifton Road)

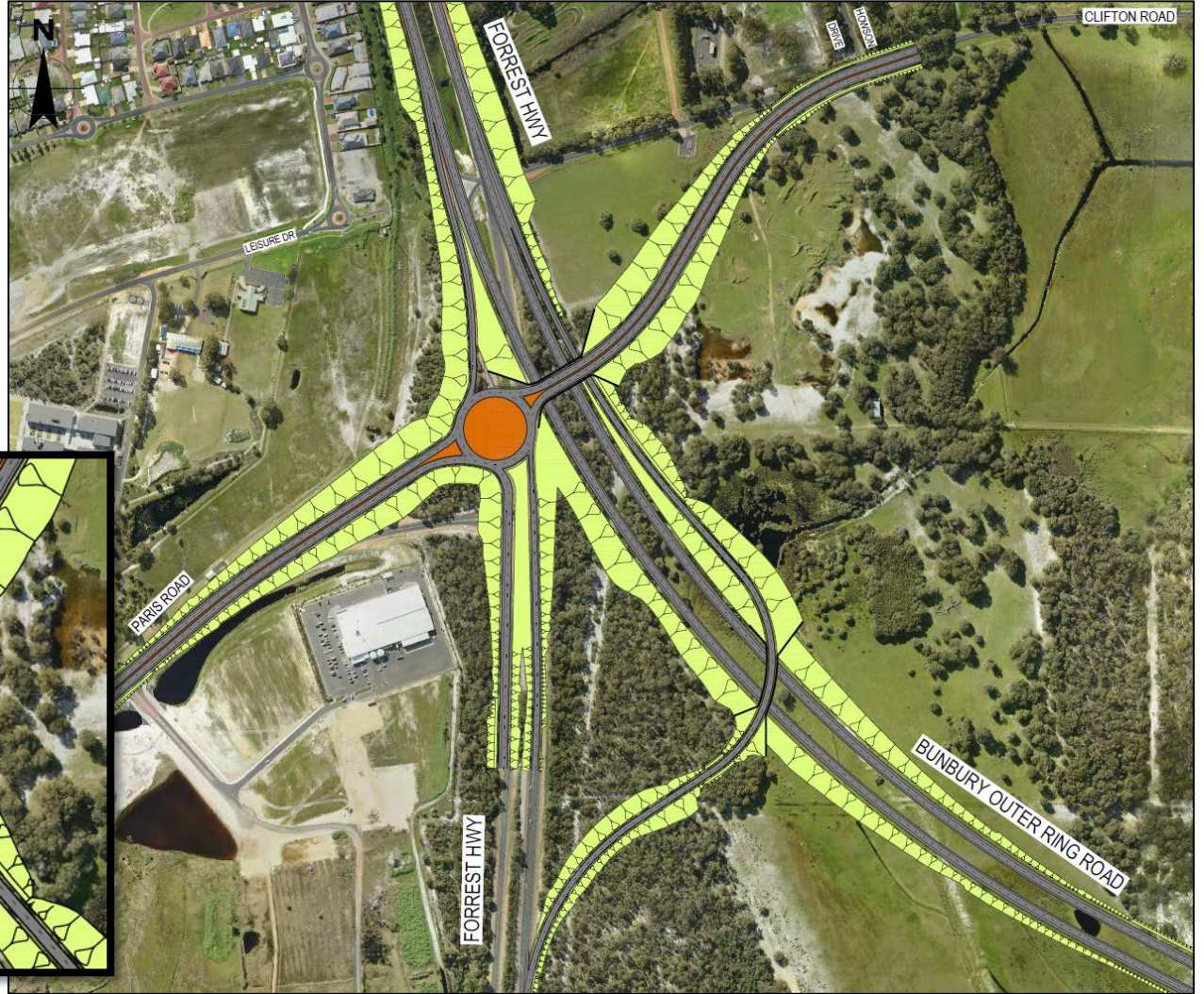
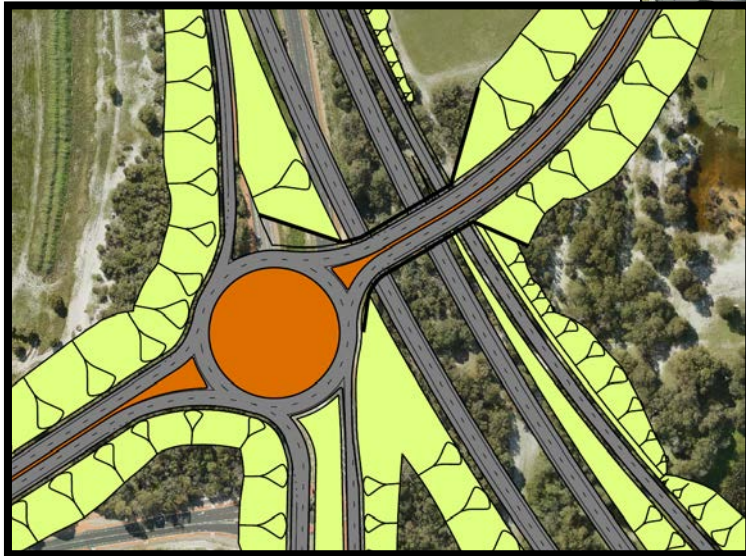
# BORR Northern Interchange

- Key Objectives
  - Free flow access to Bunbury
  - Paris Road to be connected to Clifton Road
  - Not preclude the future Perth to Bunbury Fast Rail
- Interchange treated as split interchange between Paris Road/Clifton Road and Raymond Road

# Paris – Clifton Option 1

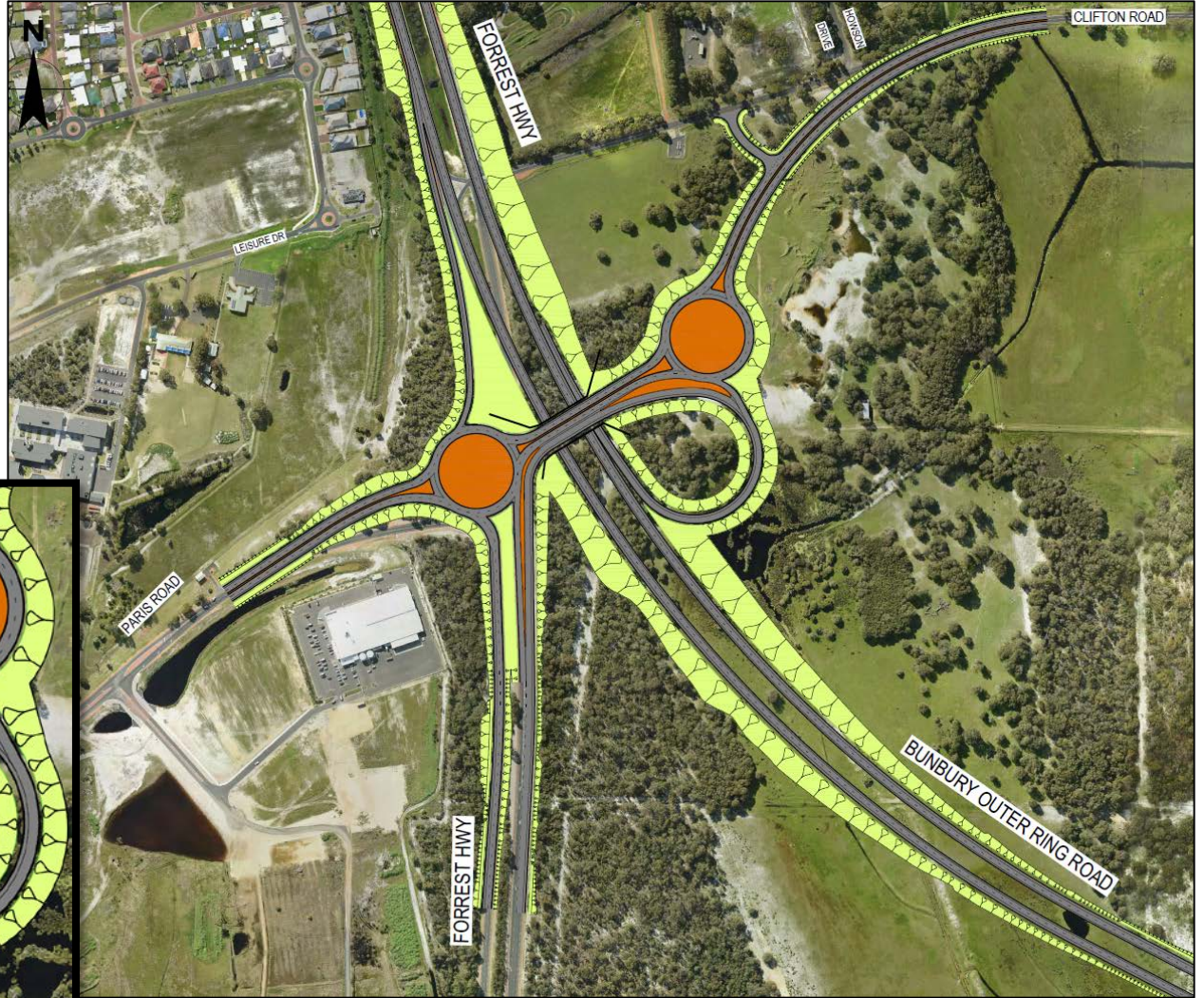


# Paris – Clifton Option 2





# Paris – Clifton Option 3 Preferred

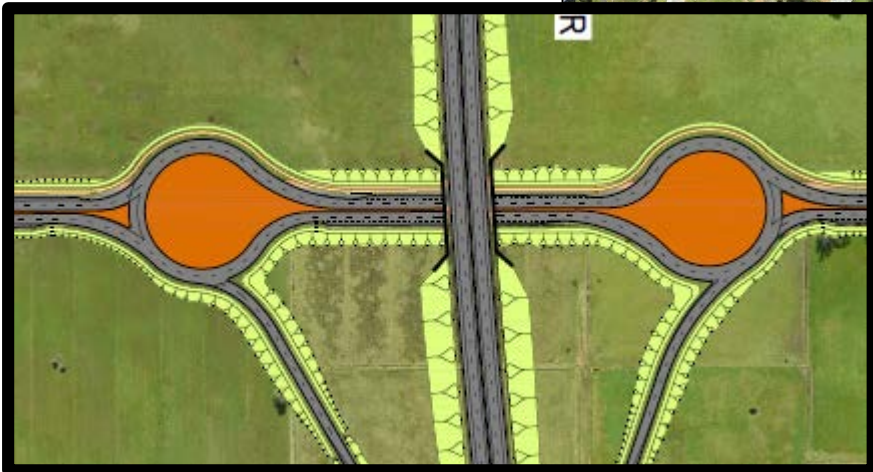
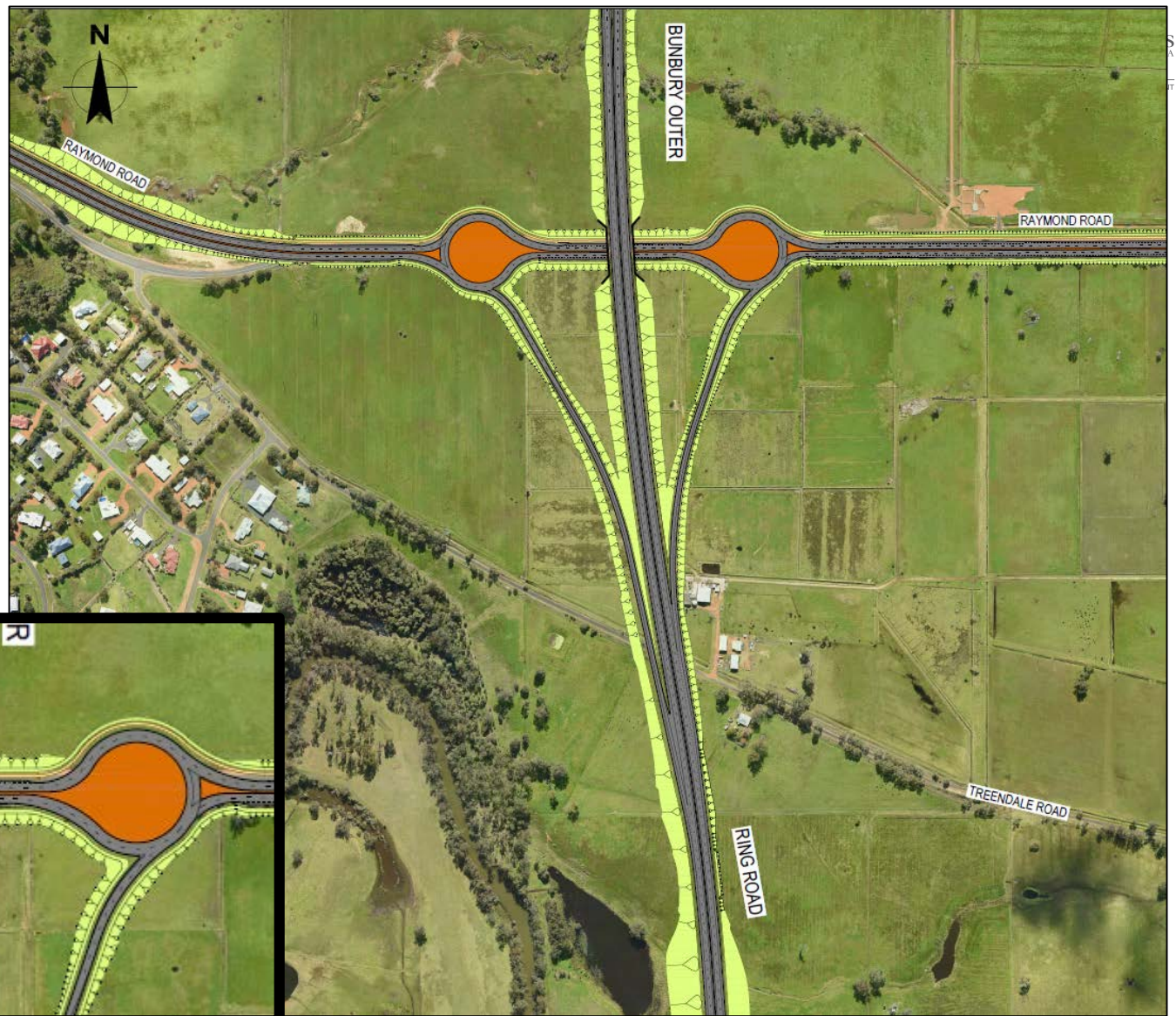


## Northern Interchange – Recommended Option

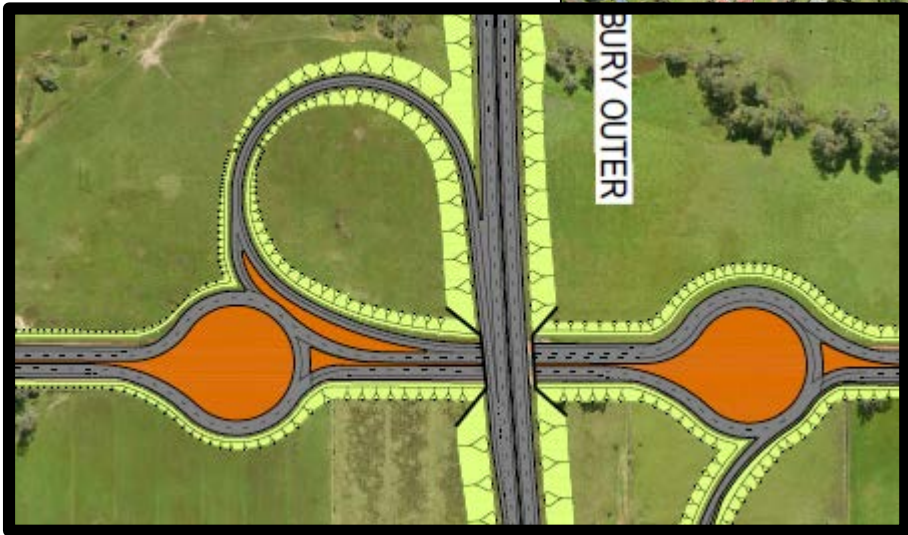
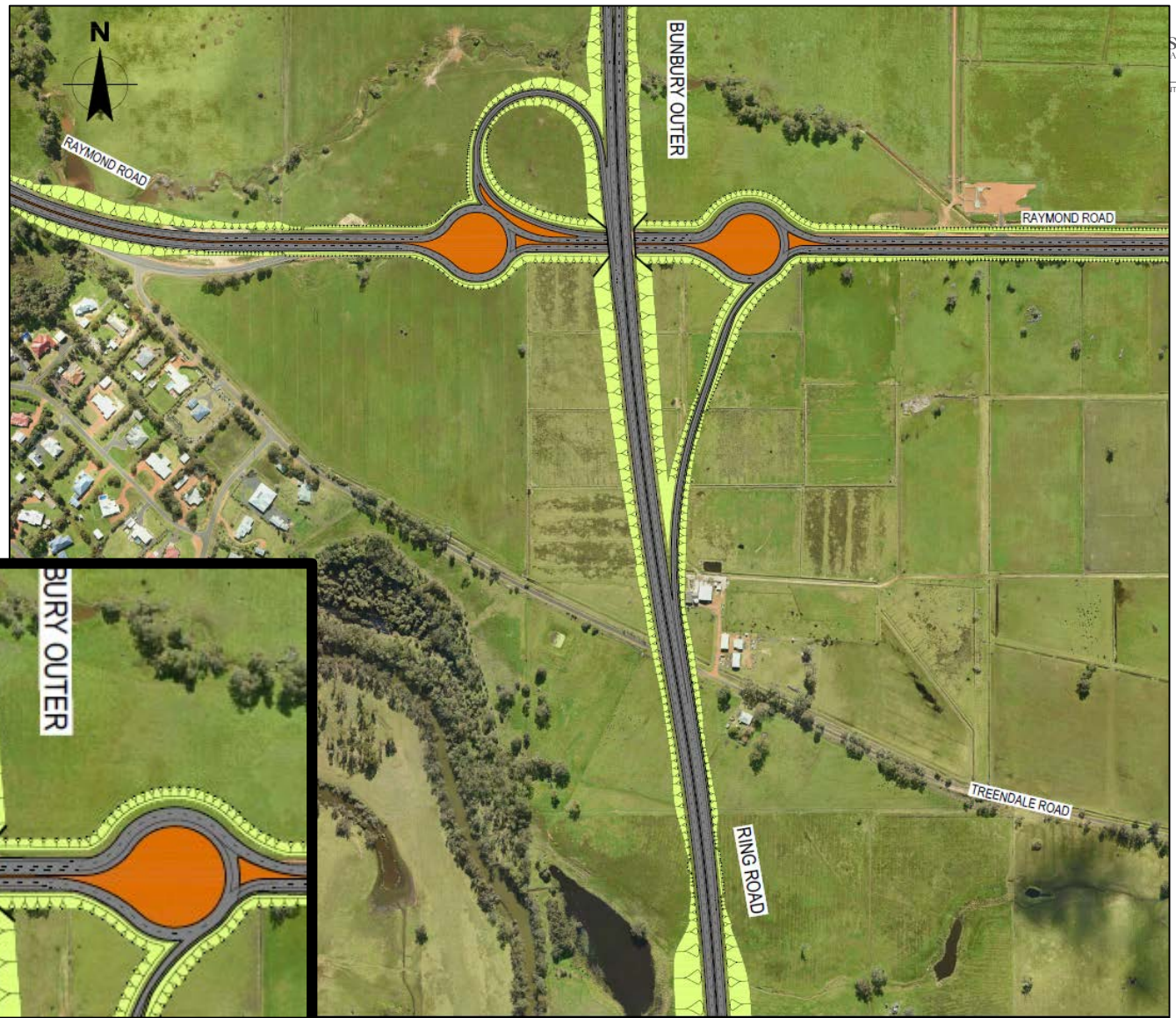
- Recommended interchange option is Option 3 (loop with Paris-Clifton connected)
- Achieves free flow bypass
- Maintains connectivity between Paris Rd and Clifton Rd and also from Paris Rd to Forrest Highway
- Minimises impact to remnant vegetation and has the least fragmentation to potential western ringtail possum habitat, Banksia Woodland TEC and potential black cockatoo habitat
- Achieves the best network performance out of the three options

# Raymond Road Interchange

**Raymond Interchange  
Option 1  
Dumbbell  
Preferred**



# Raymond Option 2 Modified Dumbbell

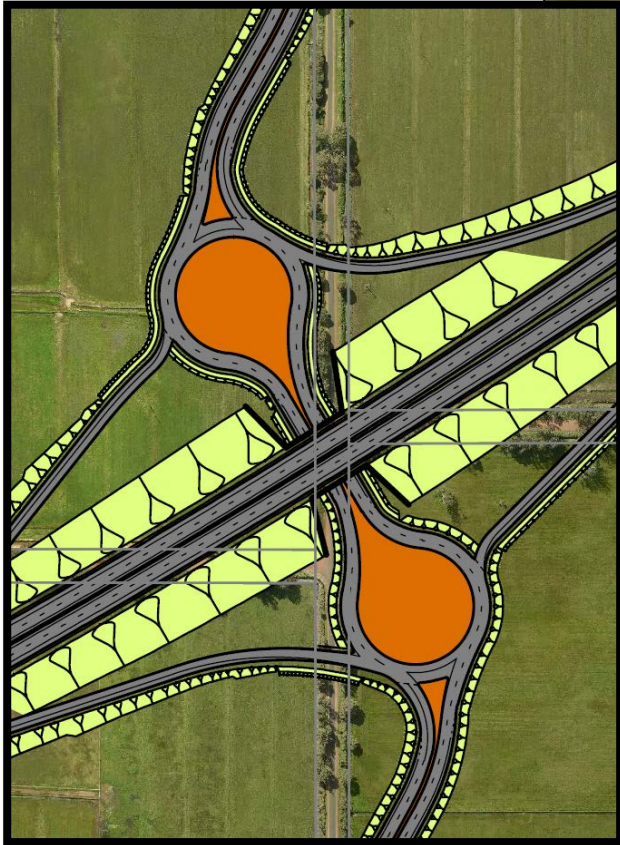


# Raymond Rd Interchange – Recommended Option

- Recommended option is the Dumbbell Interchange (Option 1)
- Minimal points of difference between two options
- Dumbbell option suits the anticipated dominant traffic movements
- Similar social impacts
- Marginally lower overall project costs (construction, WOLCC & land acquisition)

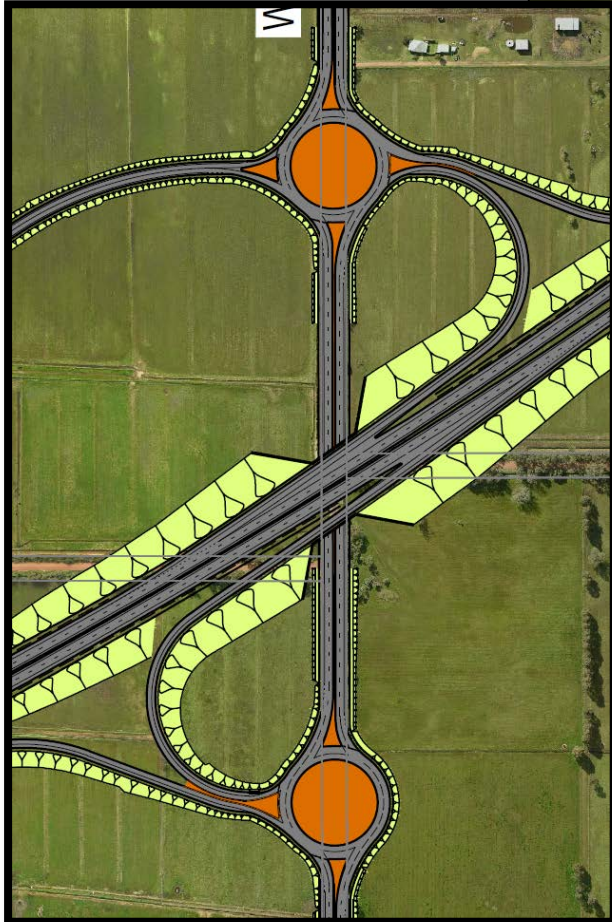
# Waterloo Interchange (future industrial precinct)

# Waterloo Option 1

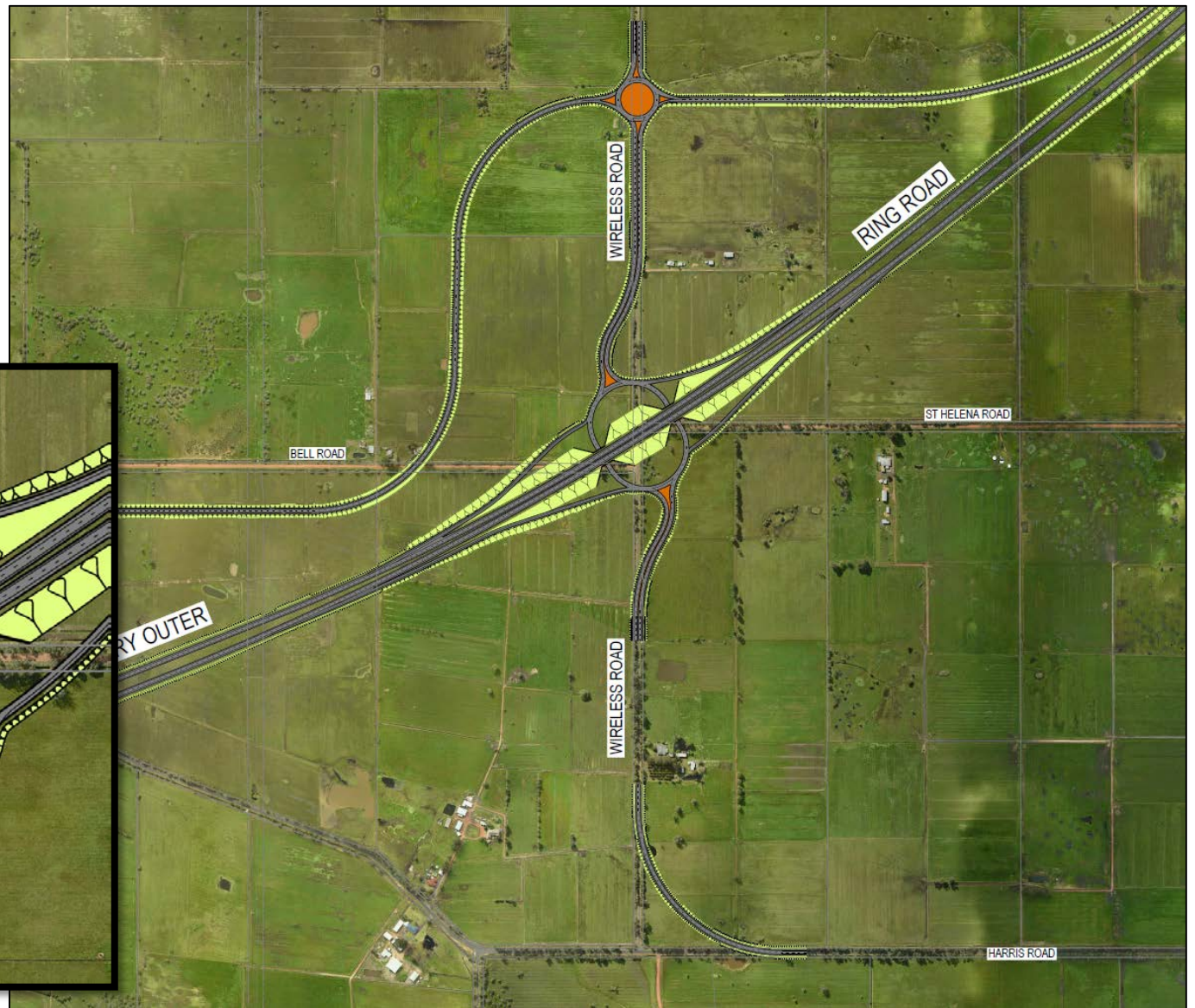
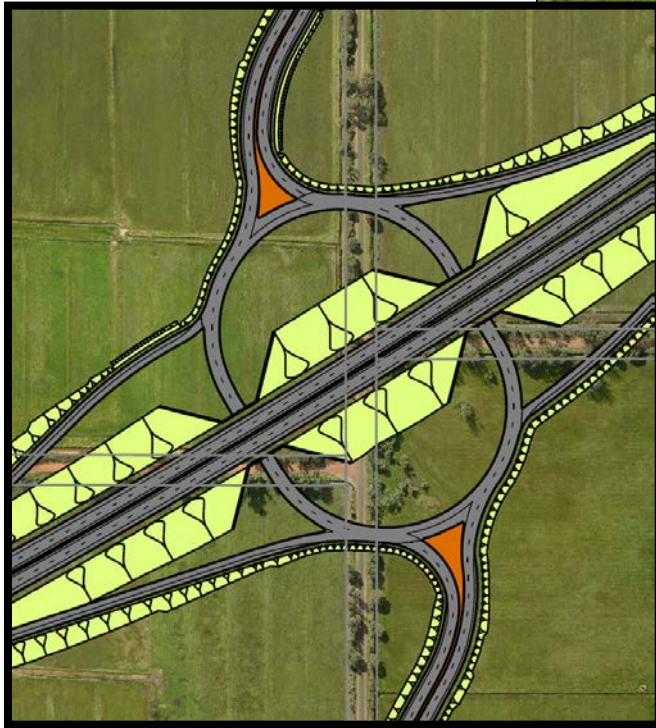




# Waterloo Option 2



# Waterloo Option 3 Preferred

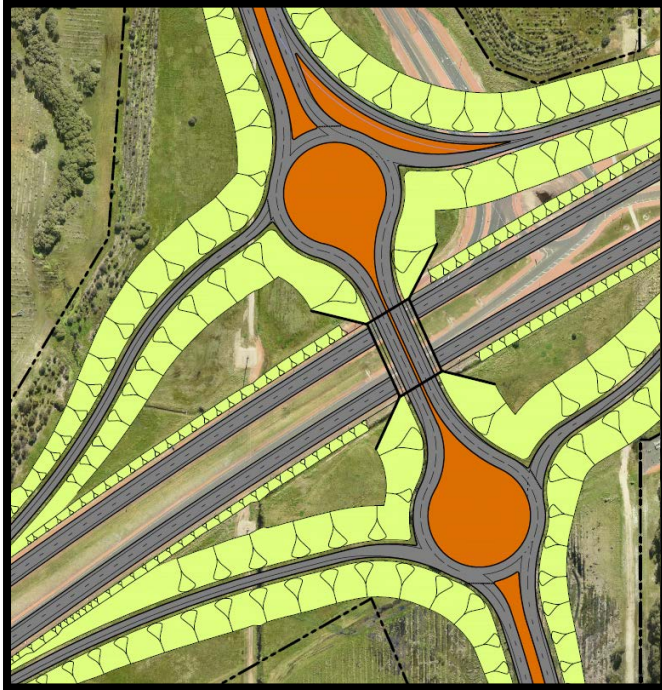


## Waterloo Interchange – Recommended Option

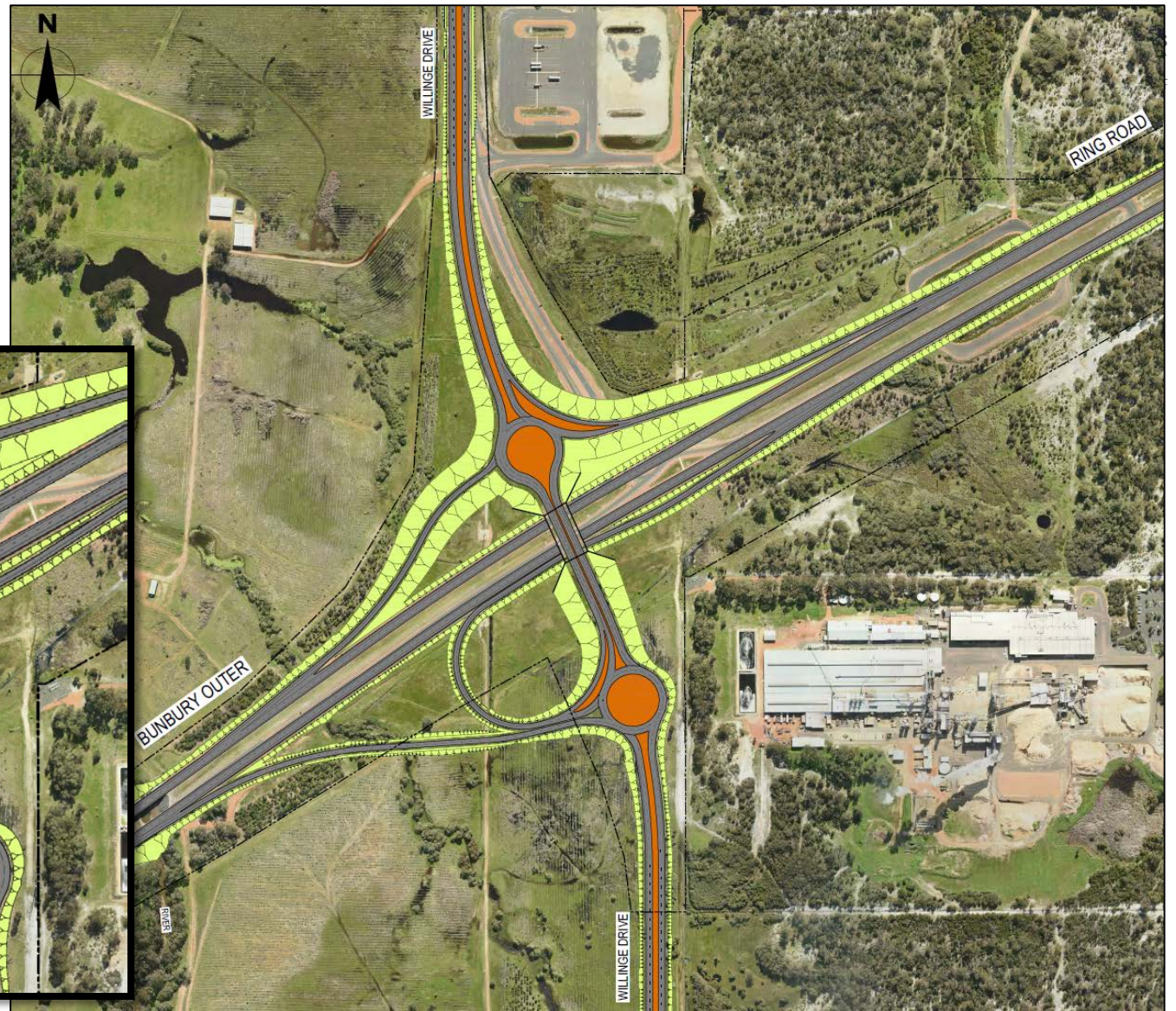
- Recommended interchange is the Grade Separated Roundabout (Option 3)
- Minor points of differences between the three options
- Suits the dominant traffic movements
- Safe interchange form as angle of conflicts are controlled
- Larger radii than dumbbell interchange allows for better for operational suitability for freight vehicles

# Willinge Drive (Port Access Road) Interchange

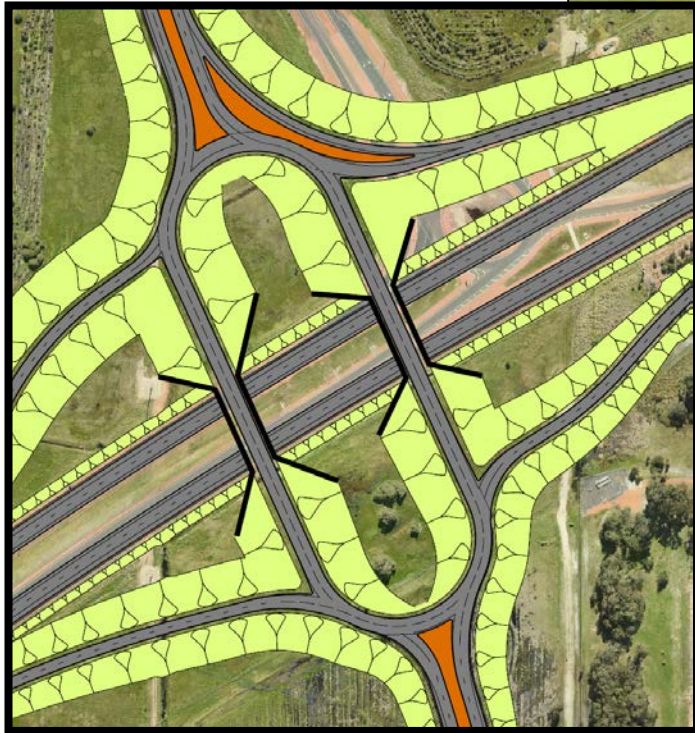
# Willinge Option 1



# Willinge Option 2



# Willinge Option 3 Preferred



## Willinge Interchange – Recommended Option

- Recommended interchange option is the Grade Separated Roundabout Option (Option 3)
- Safe interchange form as angle of conflicts are controlled
- Larger radii than dumbbell interchange allows for better for operational suitability for freight vehicles
- Traffic performance comparable with other interchange options