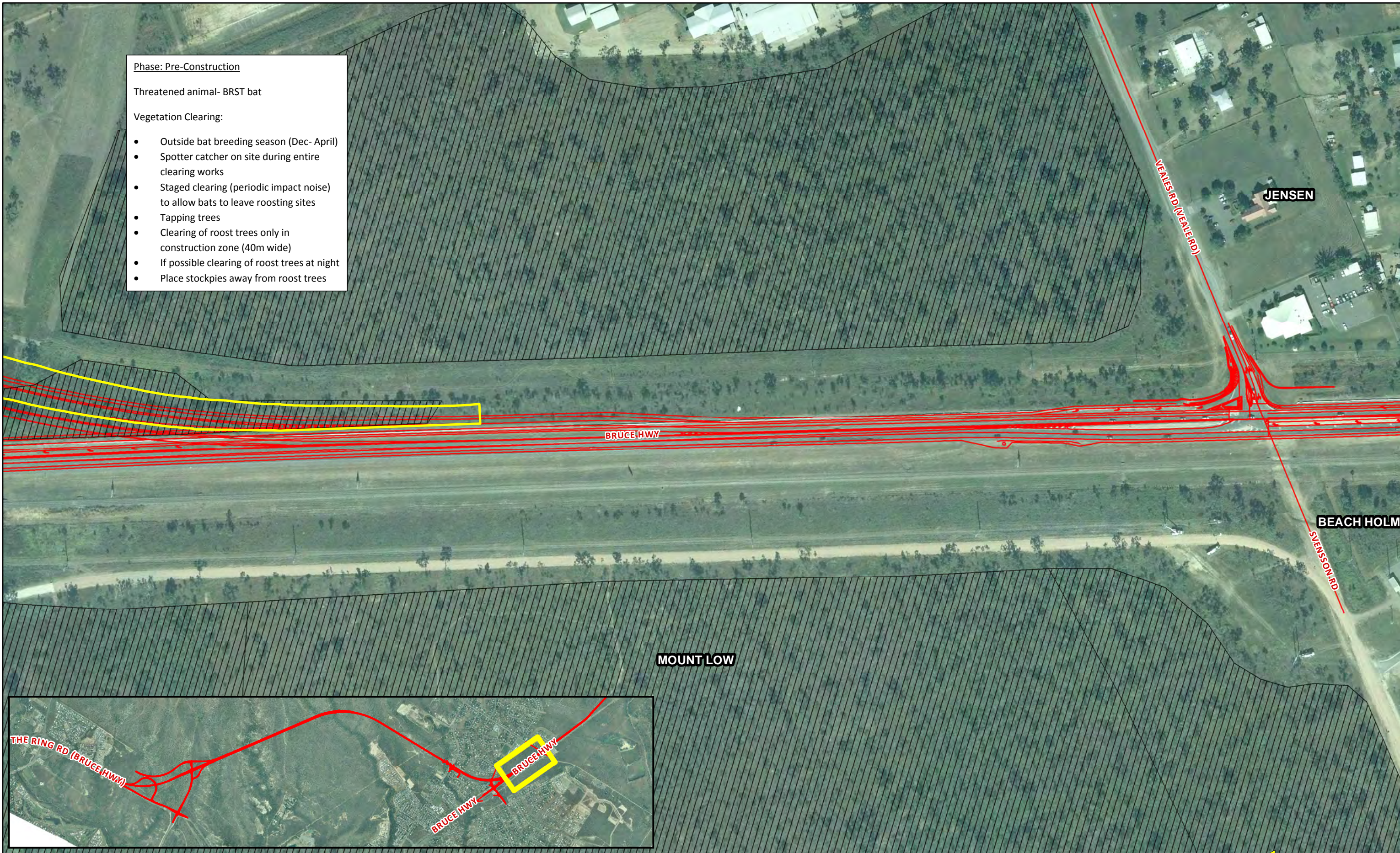


**Phase: Pre-Construction**

Threatened animal- BRST bat

**Vegetation Clearing:**

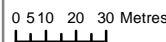
- Outside bat breeding season (Dec- April)
- Spotter catcher on site during entire clearing works
- Staged clearing (periodic impact noise) to allow bats to leave roosting sites
- Tapping trees
- Clearing of roost trees only in construction zone (40m wide)
- If possible clearing of roost trees at night
- Place stockpiles away from roost trees



PROJECT ID 60285754  
 LAST MODIFIED CFS 27-Aug-2013  
 FILE NAME 60285754\_ENV\_18



Scale: 1:2,500  
 (when printed at A3)



Property Boundary, Regional Ecosystem,  
 High Value regrowth - QLD Gov.2013  
 Roads, Watercourse - © 2010 PSMA Australia Pty Ltd  
 Survey Corridors, Surevs - AECOM, NRA 2013

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Known Weed Locations	Squatter Pigeon AECOM Survey	<b>BTF Breeding Habitats</b>	<b>Potential Habitat for Bare-rumped Sheath-tail Bat</b>
NRA Field BTF Sighting and Nest Records (December 2012, April 2013 data)	Squatter Pigeon NRA Survey	Higher Probability BTF Habitat	Roosting (optimal)/foraging
BTF Sightings (AECOM Survey)	TRR4 Project	Higher Probability BTF Supporting Habitat	Roosting (marginal)/foraging
Bog Figwort Population	Extent of Proposed Disturbed Area	Lower Probability BTF	Roosting (very marginal)/foraging
		Lower Probability BTF Supporting Habitat	

**TOWNSVILLE RING ROAD SECTION 4**

**Detailed Design Mitigation**