

Appendix B

B.1 Table 2 – Visual Impact Summary

Area	Visual Effect	Visual Sensitivity	Visual Impact	Mitigation Strategy to reduce visual impacts
Section 1: Warrell Creek to Nambucca River				
Residences within 150m of Proposal where it is in fill or where residence is elevated and could view Proposal in cut: {existing Pacific Highway south of Warrell creek village (3), Cockburns Lane (1), residence A east of Warrell Creek village, residences C, D on Rosewood Road (3), Albert Drive residences F, M, O (5), existing Pacific Highway near Donnellyville (2), Bald Hill Road (1), Kerr Drive(4), residence U on existing Pacific Highway west of Bald Hill Road (1)}	High	High-Very High	High-Very High	Interchanges at Warrell Creek and Bald Hill Road designed as clear, uncomplicated interchanges, with a reduced footprint and extent of cut and fill minimised. Landscape treatment to the interchanges to provide distinctive landscape character and visual reduction through screen planting within view corridors from surrounding residences. Bridges at Warrell Creek and Bald Hill Road interchange designed as clean, uncluttered structures. Screen planting at base of embankments and at tops of cuts.
Residences between 150–300 m of the Proposal where it is in fill {Cockburns Lane (1), residence E on Rosewood Road (1), residence B east of Warrell Creek Village (1), residences on Scotts Head Road (2), residence V on existing Pacific Highway west of Bald Hill Road (1), Wedgewood Drive(4)}	High	High	High	Same as previous. Screen planting at base of embankments to include dense trees and understorey.
Residences between 250–500 m of the Proposal on O'Dells Road with potential views from an elevated position over the Proposal G-L, N (7)}	High	High	High	Road profile has been kept low. Planted mound to 3 m to provide a visual screen.
Residences between 300–500 m where proposal is in fill {Rosewood Road (1)}	Medium	Medium	Medium	Screen planting with trees and dense understorey provided at base of embankments.

Area	Visual Effect	Visual Sensitivity	Visual Impact	Mitigation Strategy to reduce visual impacts
Residences > 500 m where Proposal is in fill and visible	Low	Low	Low	Planting provided to integrate Proposal with the surrounding landscape character.
Residences in Donnellyville within 150 m with views to the Proposal in fill	Medium	High -Very High	High	Noise barrier provided as a planted mound with dual function to screen views to the Proposal, and/or noise wall with screen planting where sufficient space for mound is not available.
Residences > 500 m distance that are elevated and view the proposal where in fill due to the elevation (Upper Warrell Creek Road)	Low	Low	Low	Retention of existing trees adjacent to the Proposal. Planting at the top of cuts and on embankments to integrate with the surrounding landscape.
Warrell Creek Village and Macksville township located > 500 m from Proposal	Low	Low	Low	Planting of embankments and edges with clustered trees and shrubs whilst allowing views of the floodplain and river from the Proposal.
Donnelly Welsh Playing Fields	Medium	Low-Medium	Medium	Proposal integrated with the floodplain by reducing its elevation (but out of 1:100 flood levels). Planting with clustered trees and shrubs to reflect floodplain landscape character.
Residents on Gumma Road and River Street (4) within 150 m of proposal with views to the proposed bridge	Very High	Very High	Very High	Refined and uncluttered design for the bridge over the Nambucca River. Abutments kept open to maintain views of the river. Dense tree clusters on approaches to the bridge abutments at base of embankments.
Residents on Gumma Road and River Street (11) between 150-300 m of proposal with views to the proposed bridge and approaches	High	High	High	Same as previous
Former Boulton Hotel and site of ferry/punt crossing	Very High	Very High	Very High	Same as previous

Area	Visual Effect	Visual Sensitivity	Visual Impact	Mitigation Strategy to reduce visual impacts
Section 2: Nambucca River to Nambucca Heads				
Residences and rural residential areas north of Nambucca River within 150 m of Proposal where it would be in fill, is bridged, or where it would be potentially visible from the adjacent residences. {Residence A on Nursery Road (1), residence B, G, M-S on Old Coast Road (9), residences A1, D, E, F in Letitia Close (4), residences H, I, J, K in Mattick Road(4)}.	High	High-Very High	High-Very High	Planted mound to 2 m with dense trees and understorey to provide visual screen for residents in area of Letitia Close. Noise barrier and screen planting provided near Mattick Road, (install a planted mound if fill is available). Road alignment revegetated with forest landscape character to extent the Nambucca State Forest. Trees along Old Coast Road alignment retained and protected to maintain visual screening.
Residences within between 150–300 m of Proposal where it would be potentially visible, in Letitia Close (4) and Mattick Road-Residence L and another not labelled (2), and Old Coast Road-Residence T (1).	High	High	High	Same as previous
Residences within between 300–500 m of proposal where it would be potentially visible, in Letitia Close (3) and Mattick Road (4).	High	Medium-High	Medium-High	Same as previous
Residences in Bellvue Drive at 300-500 m of Proposal with potential partial views to the Proposed bridge elevated over the Nambucca River.	High	Medium-High	Medium-High	Refined and uncluttered design for the bridge over the Nambucca River. Abutments kept open to maintain views of the river. Dense tree clusters on approaches to the bridge abutments at base of embankments.
Caravan Park on Nursery Road located some 450-500 metres and greater from the Proposal.	High	Medium	Medium-High	Clustered trees at base of embankment and revegetated embankment to integrate the Proposal with the surrounding landscape character.

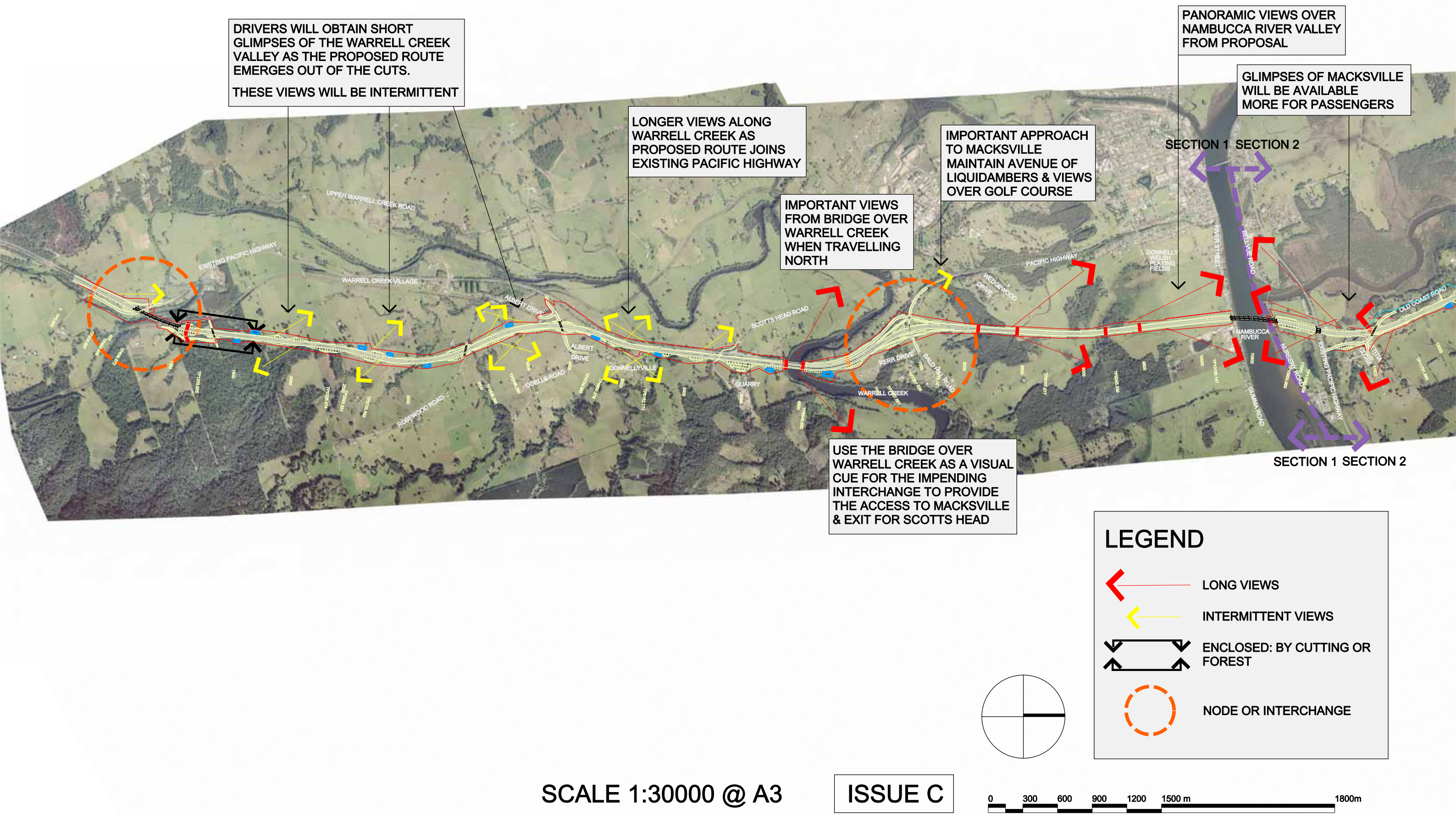
Area	Visual Effect	Visual Sensitivity	Visual Impact	Mitigation Strategy to reduce visual impacts
Nambucca State Forest.	High	Low	Low-Medium	Revegetated road alignment with forest landscape characteristic of the Blackbutt forest.
Recreational Areas: - pedestrian bridge and path at Newee Creek at approximately 150 m - boat ramp near caravan park at approximately 750m	Medium Low	High Low	Medium Low	Refined and uncluttered design for the bridge over the Nambucca River. Bridge piers aligned on north and south bound bridges to avoid clutter within the river and maintain views under bridges.
Residences > 500 m where Proposal would be in fill and potentially visible.	Low	Low	Low	Planting provided to integrate Proposal with the surrounding landscape character.
Section 3: Nambucca Heads to Ballards Road				
Residences located with 150 m of proposal where it is either in fill or where views over areas in cut would be available (approx 36)	Medium	High	Medium-High	Planting and screening reinforced adjacent to the Proposal to recognise the existing vegetation and topographic enclosures of the residences.
Residences located between 150 to 300 m of proposal where it is either in fill or where views over areas in cut would be available (approx 8)	Medium	Medium	Medium	Same as previous
Residences located between 300 to 500 m of proposal where it is in fill and where views would be available (approx 1)	Low	Low	Low	Same as previous
Cow Creek Reserve	High	High	High	Screen planting provided to retain the visual enclosure of Cow Creek reserve. Plant fauna underpass to Flora and Fauna expert requirements, to maximise fauna use.
Future Boggy Creek Urban Area (Transport and heavy industrial zoning)	Low	Low	Low	Dense forest vegetation, trees and understorey revegetated along the Proposal and the realigned Pacific Highway.

Area	Visual Effect	Visual Sensitivity	Visual Impact	Mitigation Strategy to reduce visual impacts
Future Boggy Creek Urban Area (Rural Residential)	Medium	Medium	Medium	Same as previous
Section 4: Ballards Road to existing Raleigh deviation				
Forested areas of Little Newry and Newry State Forest and forest north of river	High to Very High	Low	Medium	Impacts reduced by dense vegetation and screening of the Proposal, using forest species characteristic of the existing forests.
Kalang River Floodplain on the southern side where residences are within 100 m, Residence A (1) and 300 m, Residence B (1)	Very High	High-Very High dependent on distance to the proposal. Very High <150m High 150–300m	High-Very High	Dense tree clusters provided at the base of the embankments to screen the proposal and link with the existing vegetation patterns in the valley.
Residences on South Arm Rd near Kalang River, or accessed from it, within 150m of the Proposal, Residences C, E, G.(3)	Very High	Very High	Very High	All vegetation beyond the immediate road works protected and the existing forested edges reinforced and extended to the embankments and cuttings.
Residences on South Arm Rd near Kalang River, or accessed from it, between 150-300 m, that would have views to the Proposal, Residences F, H (2).	High	High	High	Same as previous
Residences on South Arm Rd near Kalang River, or accessed from it, between 300-500 m from an elevated position that would have views to the Proposal, Residence D(1)	High	High	High	Same as previous
South West Arm Road scenic road landscape (Bellingen Shire Conservation Area)	Very High	Very High	Very High	All existing vegetation beyond the immediate road works protected, the alignment of existing South Arm Road adjacent to the Kalang River maintained to protect it as a cultural link.

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				Dense tree clusters grouped adjacent to the Proposal to reflect the surrounding vegetation patterns.
Residences on Ridgewood Drive within 150 metres of the Proposal (4)	High	High	High.	Dense screen planting and mound to 4 m provided to visually screen the Proposal as it approaches Short Cut Road.
Residences on Ridgewood Drive between 150-300 m of the Proposal (4)	Medium-High	High	High.	Same as previous
Residences on Ridgewood Drive between 300-500 m of the Proposal (3)	Medium-High	Medium-High	Medium-High	Same as previous
Residences on northern side of Short Cut Road with potential views to the Proposal (7) Residences between 150- 300 metres (5) Residences between 300-500 metres (2)	Medium	Medium-High High for residents <300m	Medium-High Medium for residents >300m	Screen planting provided adjacent to the Proposal
Residences on South Arm Road near Short Cut Road within 150 metres of the Proposal with potential views (3)	High	High	High.	Screen planting provided adjacent to the Proposal
Raleigh Industrial Area	Low	Low	Low	Same as previous
Residents surrounding Waterfall Way -Raleigh interchange with views over proposed adjustments to interchange	Low	High	Medium	Revegetation of the interchange to reflect the approach to the Bellinger Valley through dense tree clusters of wet sclerophyll forest.
Future rural residential land adjacent to Ridgewood Drive	Medium	High	High	Dense screen planting and mound to 4 m provided to visually screen the Proposal as it approaches Short Cut Road

Appendix C

C.1 Potential Drivers Experience Sections 1-4



SECTION 1 : POTENTIAL DRIVERS EXPERIENCE

