|  | PART E | LEVEL CROSSINGS - Operational |  |  |
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| Part | Map <br> No | Road Name |  | Comment |
| Part E; <br> 4 | 1 | Tomingley Road, Narromine | MR89 | TfNSW requires Inland Rail interfaces with classified roads to be grade separated. | | Part E; |
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| Part E; <br> 4 | 47 | Milpulling Rd |  | The crossing is located on a slight curve in the road and a slight curve in the rail, a <br> crossing loop is approx 500m to the north. The combination of these factors has the <br> potential to reduce the ability of a driver to observe an approaching train. A passive <br> control crossing may not provide an adequate level of safety. |
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| Part E; <br> 4 | 55 | Nancarrows Rd |  | Road approach alignment from the north may be problematic for the driver of a heavy <br> vehicle, the curve in the railway south of the crossing may not allow adequate S3 <br> sighting. The ability to maintain clear sight triangles across private property may not be <br> achievable. |
| Part E; <br> 4 | 58 | Oxley Hwy, Collie |  | TfNSW requires Inland Rail interfaces with classified roads to be grade separated. The <br> railway travels through a cutting to the south and onto a bridge over the Marthaguy <br> Creek to the north. All efforts should be made to extend the rail bridge to include the <br> Oxley Hwy. Reference is made to the Safe System approach to managing safety on NSW <br> (and Australian) roads. |
| Part E; <br> 4 | 64 | Berrida Rd |  | The design introduces significant curves into the existing road. These introduce new <br> risks to road users including increased run-off-road potential and increased stopping <br> distance. |
| Part $\mathrm{E} ;$ <br> 4 | 67 | Wyuna Rd | The design introduces significant curves into the existing road. These introduce new <br> risks to road users including increased run-off-road potential and increased stopping <br> distance. This road alignment does not conform to that shown in A7-9 |  |
| Part E; <br> 4 | 71 | Castlereagh Hwy, Curban | HW18 | TfNSW requires Inland Rail interfaces with classified roads to be grade separated. <br> Reference is made to the Safe System approach to managing safety on NSW (and <br> Australian) roads. |
| Part E; <br> 4 | 72 | East Coonamble Rd |  | With the proximity of rail bridges over the Castlereagh River and to the east, grade <br> separation should be considered for this road crossing. Depending on the design of the <br> bridges, adequate sighting may not be available for passive controls. |
| Part E; <br> 4 | 75 | Nalders Access Rd | The design introduces a new road with significant curves. This introduces new risks to <br> road users including increased run-off-road potential and increased stopping distance. |  |
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| Part E; $4$ | 90 | Seven Mile Rd |  | Northbound heavy vehicle drivers may not be able to sight a train from the crossing unless the approach alignment allows for the vehicle cab to stop at 90deg to the railway. |
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| Part E; $4$ | 94 | Box Ridge Rd |  | Heavy vehicle drivers may not be able to sight a train from the crossing unless the approach alignment (both directions) allows for the vehicle cab to stop at 90deg to the railway. |
| Part E; $4$ | 102 | Goorianawa Rd |  | The design introduces significant curves into the existing road. These introduce new risks to road users including increased run-off-road potential and increased stopping distance. The rail alignment to the north may be problematic to heavy vehicle drivers, the ability to maintain clear sight triangles across private property may not be achievable. |
| $\begin{aligned} & \text { Part E; } \\ & 5 \end{aligned}$ | $\begin{aligned} & 106 \& \\ & 108 \end{aligned}$ | Private roads and Crown road(?) |  | There are no closures / treatments for what appears to be private roads in the aerial photograph of Map 106, or the apparent road reserve shown in the Cadastre of Map 108. |
| Part E; $5$ | 113 | Unnamed road |  | The design introduces significant curves into the existing road. These introduce new risks to road users including increased run-off-road potential and increased stopping distance. The rail alignment to the north may be problematic to northbound heavy vehicle drivers attempting to sight approaching southbound trains past the confines of the vehicle cab. Also, the ability to maintain clear sight triangles across private property may not be achievable. |
| Part E; $5$ | 118 | Unnamed road |  | With the proximity of the rail bridge to the south, and depending on the design of the bridge, adequate sighting may not be available for passive controls. |
| $\begin{aligned} & \text { Part E; } \\ & 5 \end{aligned}$ | 122 | Cadastre road (?) | CH729.0 | There appears to be a 'paper' road in the Cadastre layer that is not treated |


| Part E; <br> 5 | $126 / 127$ | Baradine Rd, Teridgerie | MR129 | TfNSW requires Inland Rail interfaces with classified roads to be grade separated. |
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| Part E; <br> 5 | 136 | Gwabegar Rd, Baradine | MR329 | TfNSW requires Inland Rail interfaces with classified roads to be grade separated. |
| Part E; <br> 5 | 146 | Cumbil Rd |  | The design introduces significant curves into the existing road. These introduce new <br> risks to road users including increased run-off-road potential and increased stopping <br> distance. The combined rail and road alignments may be problematic to heavy vehicle <br> drivers attempting to sight approaching trains past the confines of the vehicle cab. <br> Also, the ability to maintain clear sight triangles across the Cumbil State Forest may not <br> be achievable without widening the rail corridor for this purpose. |
| Part E; <br> 5 | 147 | Aloes Rd |  | The angle of the crossing appears marginal for safety and should be at 90deg. Similarly <br> the intersection of Aloes Rd with Pilliga Forest Way should be designed to an <br> appropriate standard to cater for the types of vehicles using the roads. |
| Part E; <br> 5 | 150 | Coxs Rd |  | The angle of crossing may prove difficult for the driver of a heavy vehicle turning left <br> from Pilliga Forest Way into Coxs Rd. Combined with the curve in the railway and <br> bridge over Rocky Creek to the north, adequate sighting might not be able to be <br> achieved. |
| Part E; <br> 5 | 168 | Pilliga Forest Way | The design introduces significant curves into the existing road. These introduce new <br> risks to road users including increased run-off-road potential and increased stopping <br> distance. |  |
| Part E; <br> 5 | 174 | Twenty Foot Rd |  | The design introduces significant curves into the existing road. These introduce new <br> risks to road users including increased run-off-road potential and increased stopping <br> distance. |
| Part E; <br> 5 | 177 | Pilliga Forest Rd / Billy Reed Rd |  | The crossing is located on a curve in the railway. A westbound vehicle driver may have <br> difficulty sighting a train to their left, particularly drivers of heavy vehicles whose <br> sighting angles are restricted by the vehicle cab. Also, maintaining sight triangles may <br> not be feasible unless the rail corridor is of adequate width to preclude vegetation <br> maintenance within the Pilliga East State Forest. |


| Part E; <br> 5 | 183 | Old Mill Rd |  | The design introduces significant curves into the existing road. These introduce new <br> risks to road users including increased run-off-road potential and increased stopping <br> distance. |
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| Part E; <br> 5 | 187 | Dog Proof Fence Rd | The crossing is located on a curve in the railway. A northbound driver of a vehicle may <br> not be able to sight an approaching train from the west. It is doubted that the driver of <br> a heavy vehicle will have adequate S3 to the left. Also, maintaining the sight triangle <br> may prove difficult with vegetation in Pilliga East State Forest on the inside of the <br> curve. |  |
| Part E; <br> 5 | 190 | Unnamed road | CH825.0 | No treatment provided. It is assumed this is a road as the Cadastre layer and the <br> 'Operational footprint' suggest this. |


| Part E; $5$ | 191 | Glenwood Ln | It is preferable that where a level crossing and an intersection control are within close proximity, that the control types at the road intersection and at the level crossing are the same. There needs to be adequate safe storage between the Newell Hwy and the railway to accommodate Type 1A Road Trains, as a minimum, and the separation determined through traffic analysis. |
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| Part E; $5$ | 196 | Cains (Canns) Crossing Rd | The design introduces a new road with significant curves. This introduces new risks to road users including increased run-off-road potential and increased stopping distance. For eastbound vehicles, sighting may not be adequate due to the reverse curved alignment of the railway. For westbound vehicles, sighting may be restricted by trains stopped in the passing loop. The new Cains Crossing Rd intersection(s) with the Newell Hwy must be designed to safely accommodate vehicle turning movements. (Note: referred to as Canns Crossing Rd in the EIS) |
|  |  | Cains (Canns) Crossing Rd | For the Cains Crossing Rd off the Newell Hwy there are currently two intersections. Cains Crossing South just south of Boheena Ck bridge and Cains Crossing North just north of the Boheena Ck rest area. As Cains crossing road is a loop road it may be appropriate for ARTC to investigate closing one of these as it would reduce by one the rail level crossing numbers as well as an intersection with the Newell. There would be some community consultation needed with two or three affected landholders and potentially a culvert or causeway in Boheena Ck but it would likely be cost neutral at worst with a much better safety outcome. |
| Part E; $5$ | 200 | Unnamed road | The design introduces significant curves into the existing road, and a new road with significant curves. These introduce new risks to road users including increased run-offroad potential and increased stopping distance. |
| Part E; $5$ | 201 | Operational footprint | Is this a private road that is untreated? |
| Part E; $5$ | 209 | Dandaloo Rd | Possible future connection. It is not desirable to have two passive control crossings within close proximity. The new crossing and the existing crossings on Dandaloo Rd and Old Backwater Rd should all be active control if the future connection progresses. |

