

# APPENDIX

# E

## Flood Study Report

### Attachment F Flood Impact Assessment for Extreme Events

PART 2 OF 3

NARRABRI TO NORTH STAR SUBMISSIONS PREFERRED INFRASTRUCTURE REPORT



## APPENDIX B1: 1% AEP WITH CLIMATE CHANGE EVENT FLOOD IMPACT MAPS

### Map List:


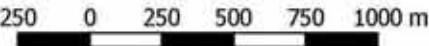

Flood Level Change (Afflux) 1% AEP with climate change – Figures DE1CCA1 to 37

Flood Velocity Change 1% AEP with climate change – Figures DE1CCVC1 to 37

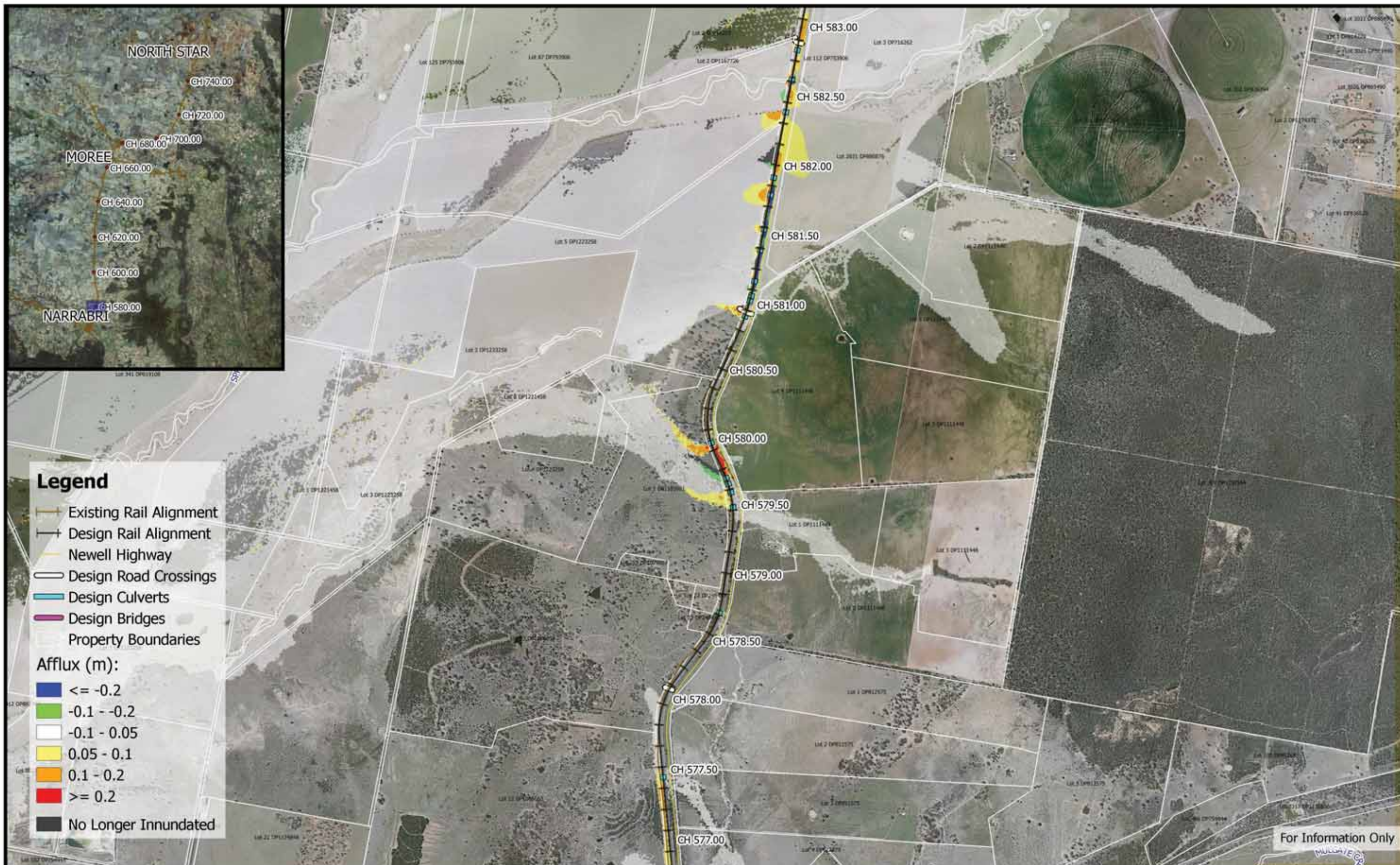
Flood Duration Change 1% AEP with climate change – Figures DE1CCD1 to 37





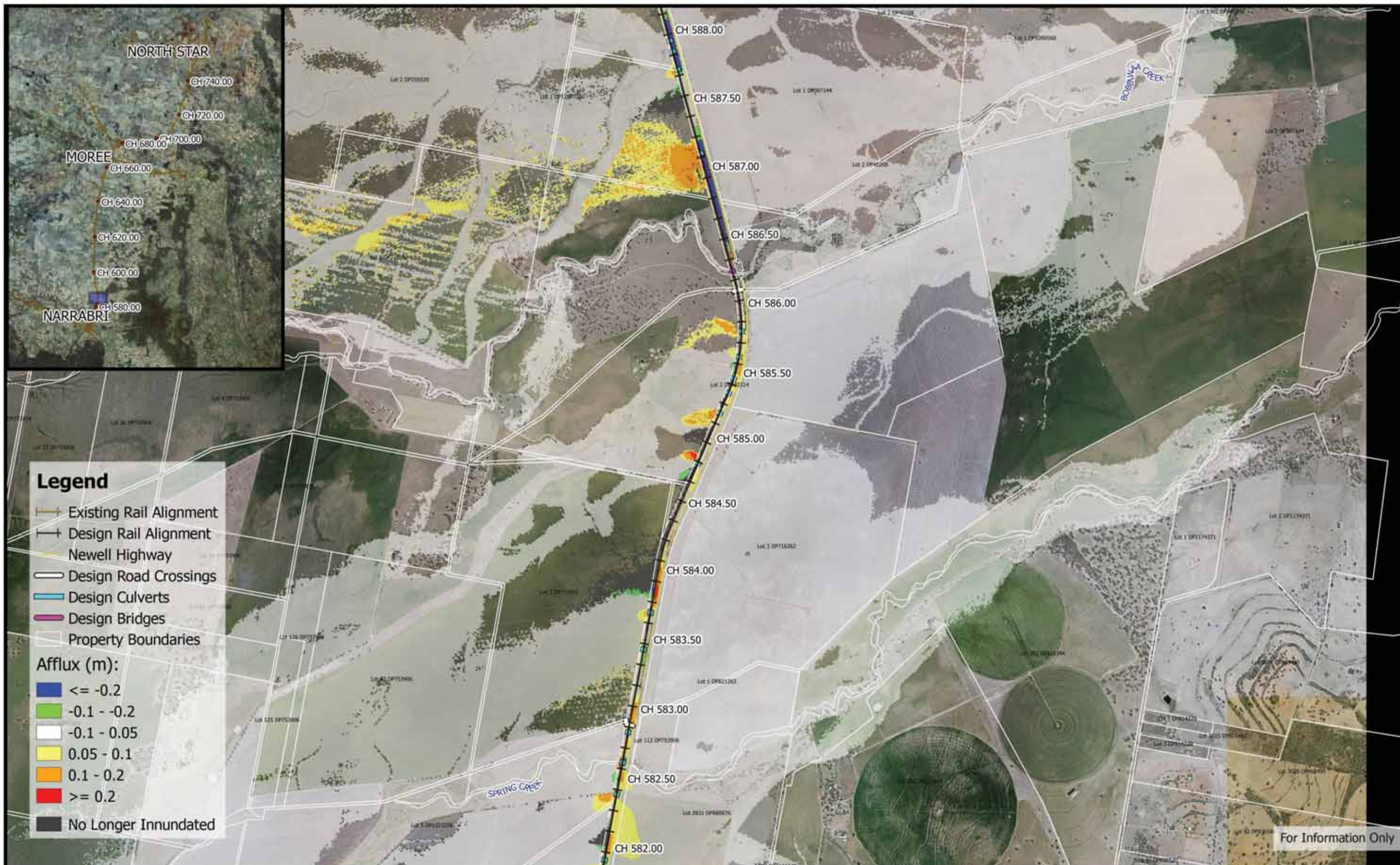
	 1:25,000 Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Date: 11/6/2019	<b>Inland Rail - Narrabri to North Star</b> <b>IFC - Flood Study for Separable Portion 1</b>  <b>Figure DE1CCA1</b> 1% AEP Climate Change Flood Afflux - CH 575.00
			Rev A: For Information Only	
			Prepared By: stephensk	





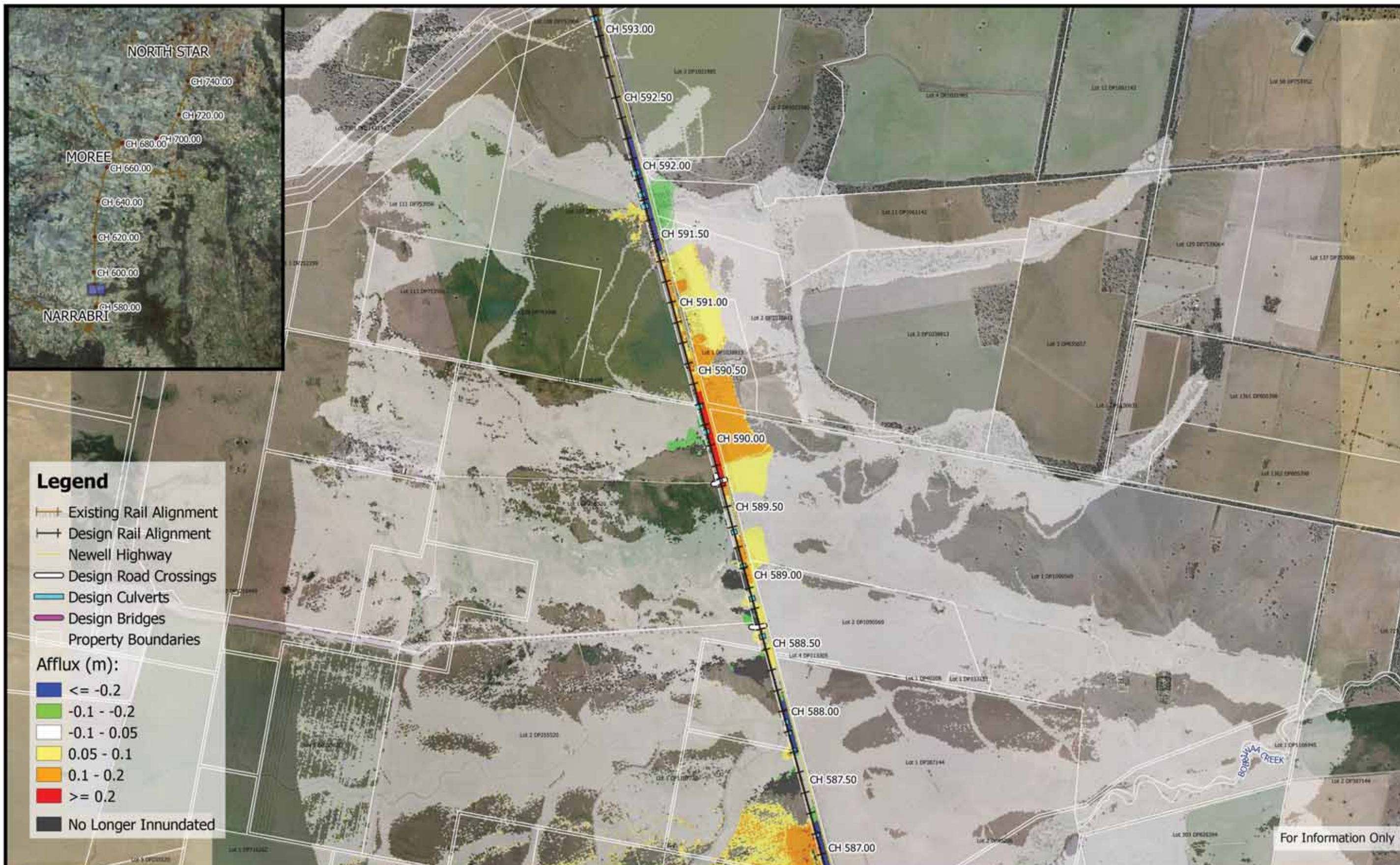
	 1:25,000 Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Date: 11/6/2019	<b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1  <b>Figure DE1CCA2</b> 1% AEP Climate Change Flood Afflux - CH 580.00
			Rev A: For Information Only	
			Prepared By: stephensk	





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			Rev A: For Information Only	
			Prepared By: stephensk	









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			Rev A: For Information Only	
			Prepared By: stephensk	









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			Rev A: For Information Only	
			Prepared By: stephensk	

**Figure DE1CCA7**  
 1% AEP Climate Change Flood Afflux - CH 605.00







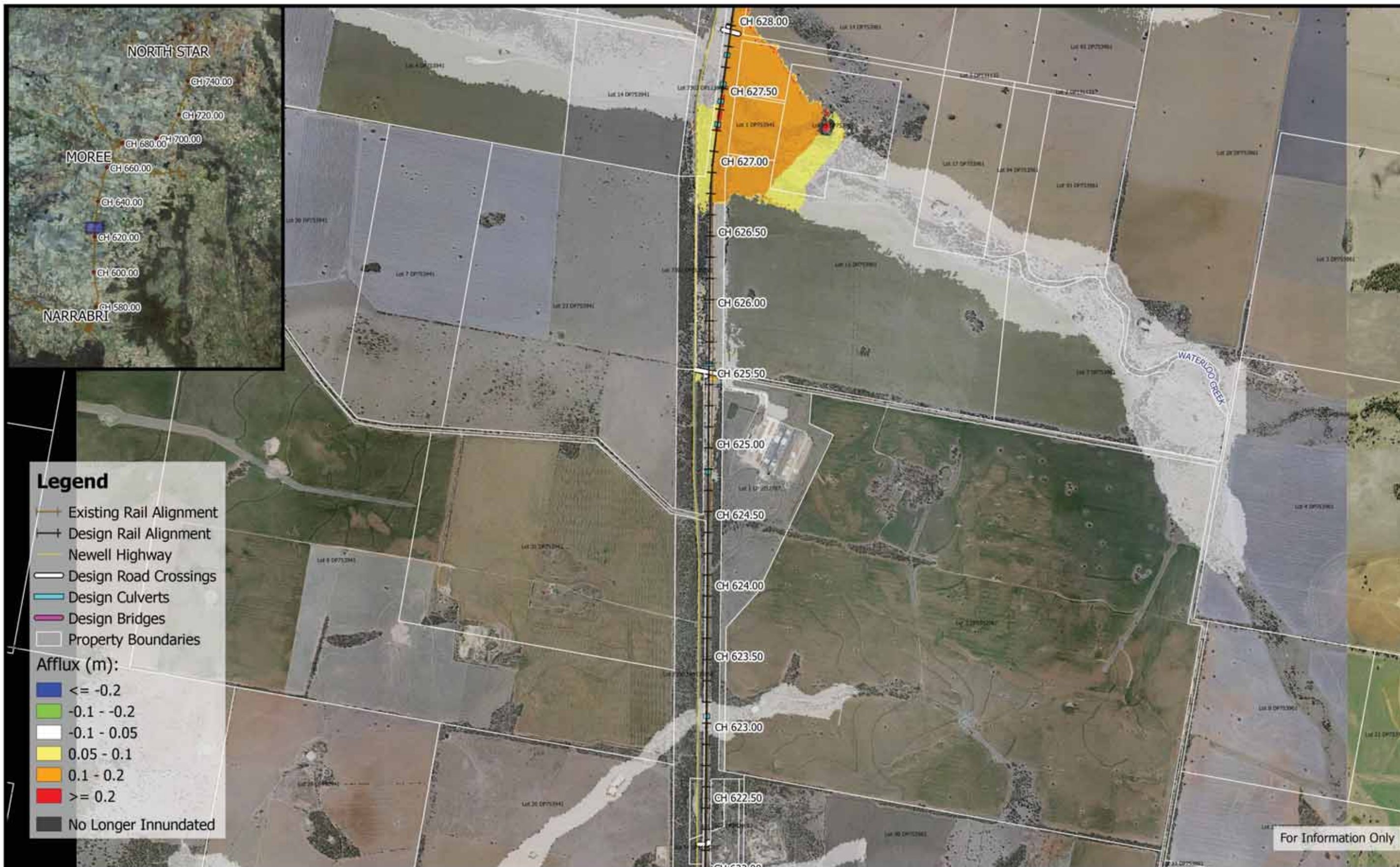


	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 11/6/2019	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCA9</b> 1% AEP Climate Change Flood Afflux - CH 615.00</p>
			Rev A: For Information Only	
			Prepared By: stephensk	







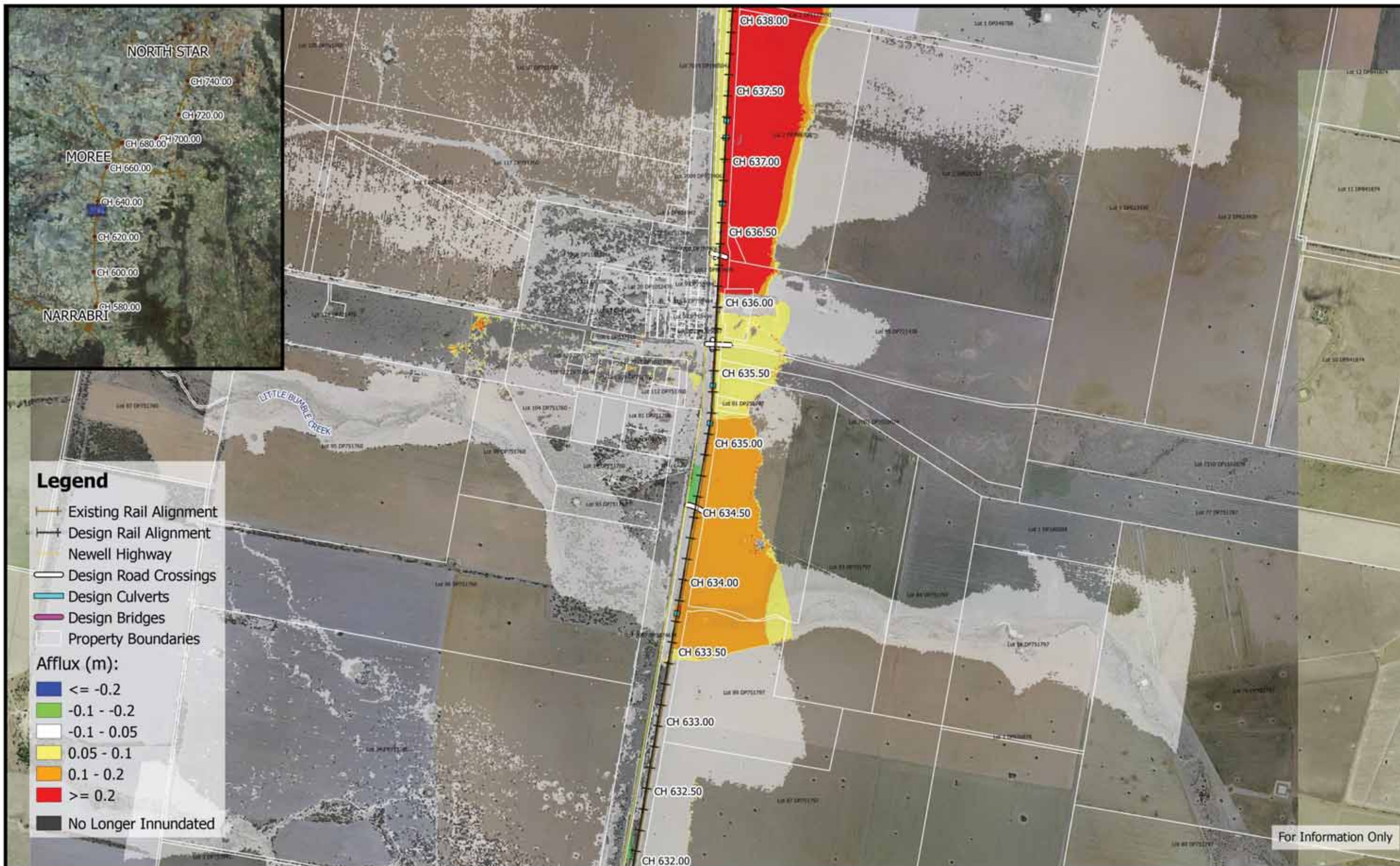






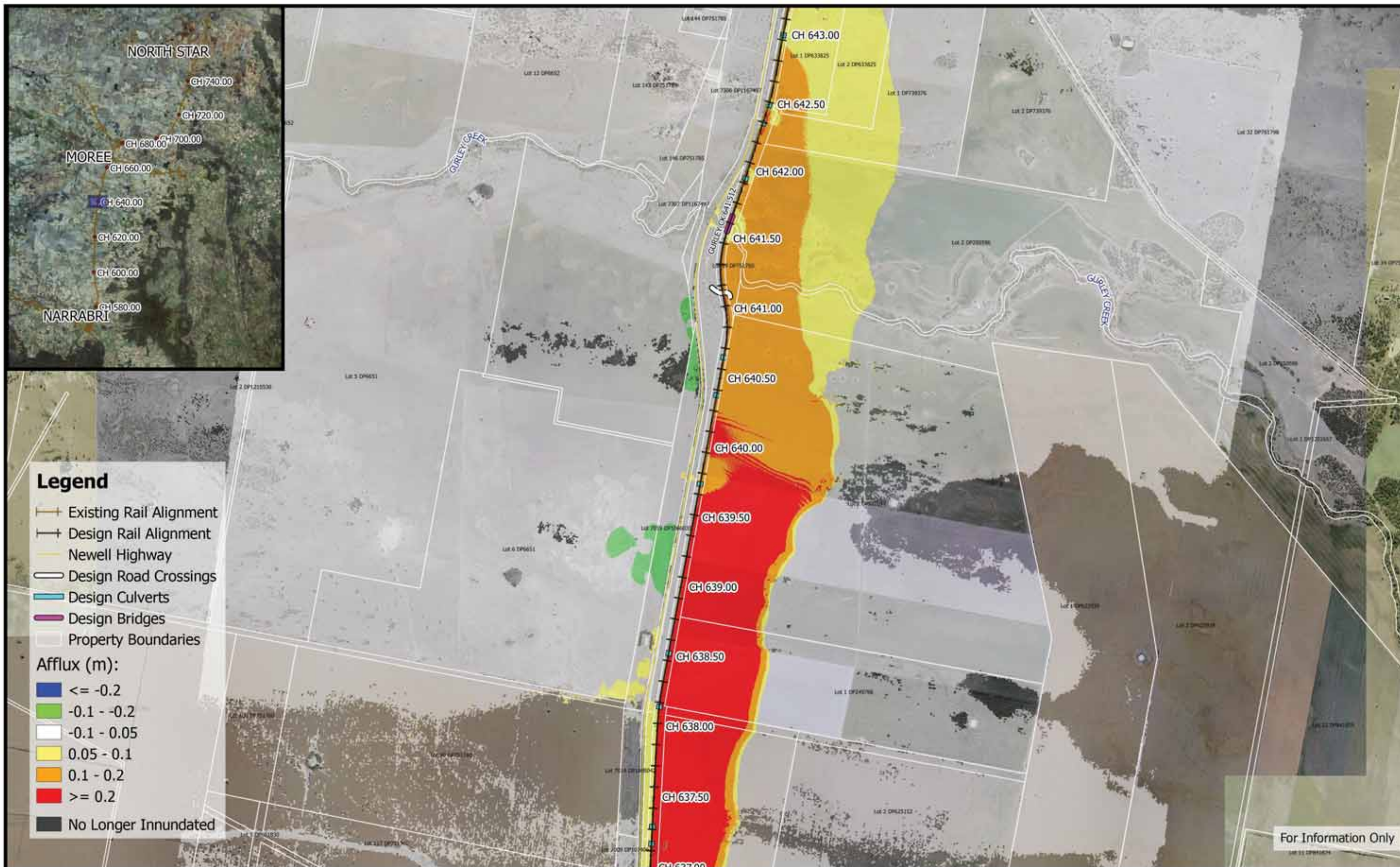
	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 11/6/2019	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCA12</b> 1% AEP Climate Change Flood Afflux - CH 630.00</p>
			Rev A: For Information Only	
			Prepared By: stephensk	



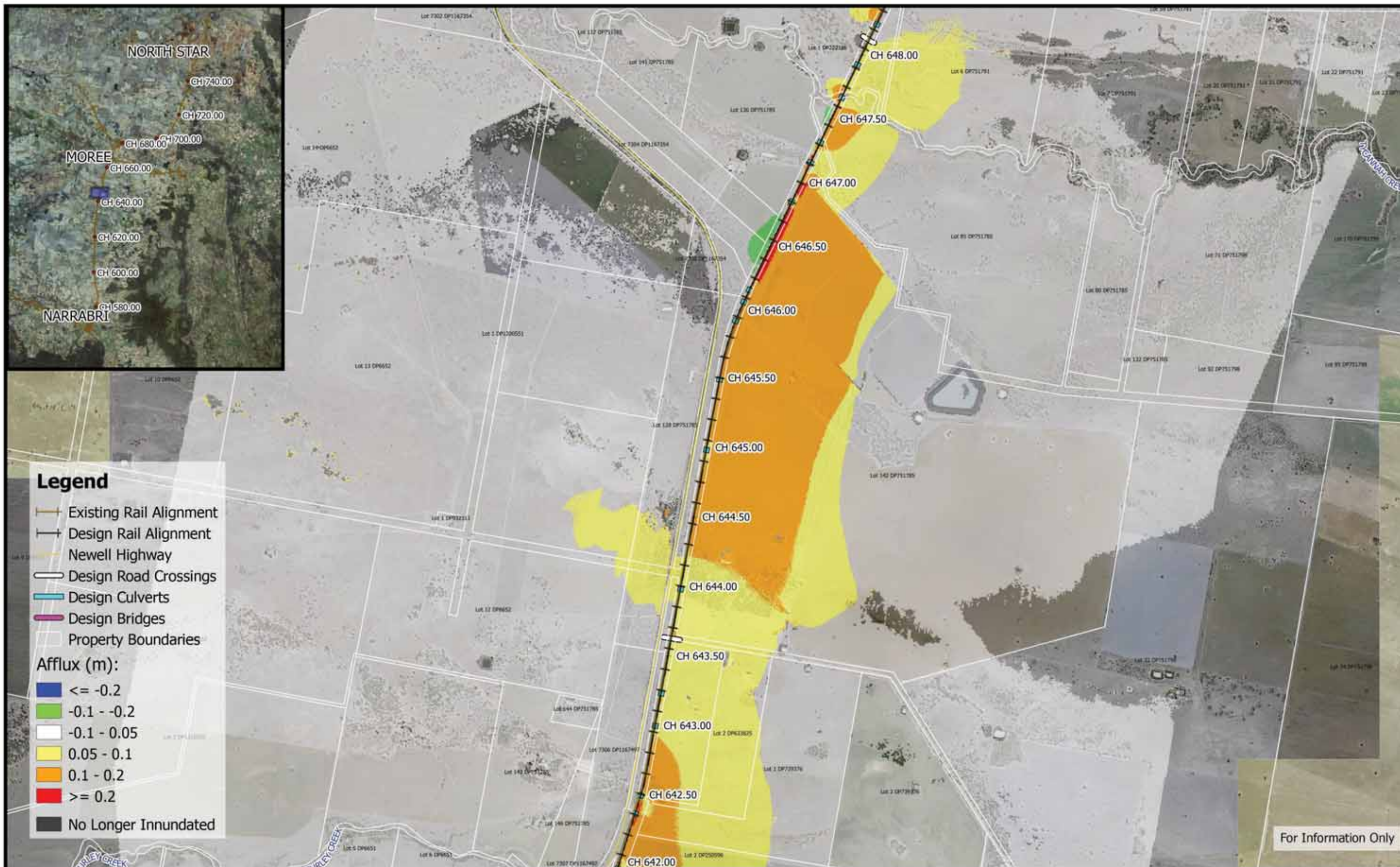


	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		<p>Date: 11/6/2019</p> <p>Rev A: For Information Only</p> <p>Prepared By: stephensk</p>	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCA13</b> <i>1% AEP Climate Change Flood Afflux - CH 635.00</i></p>
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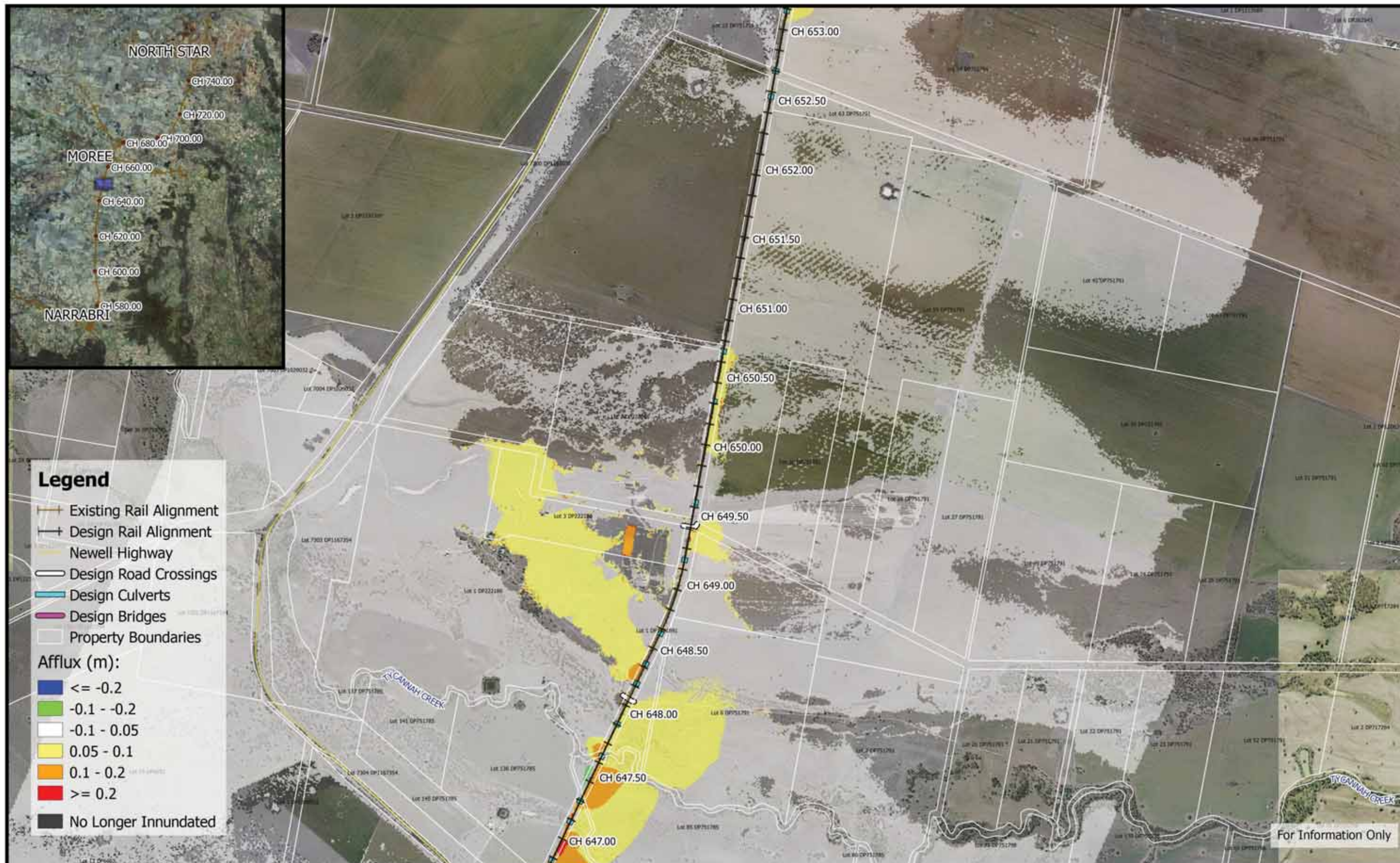






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			Rev A: For Information Only	
			Prepared By: stephensk	









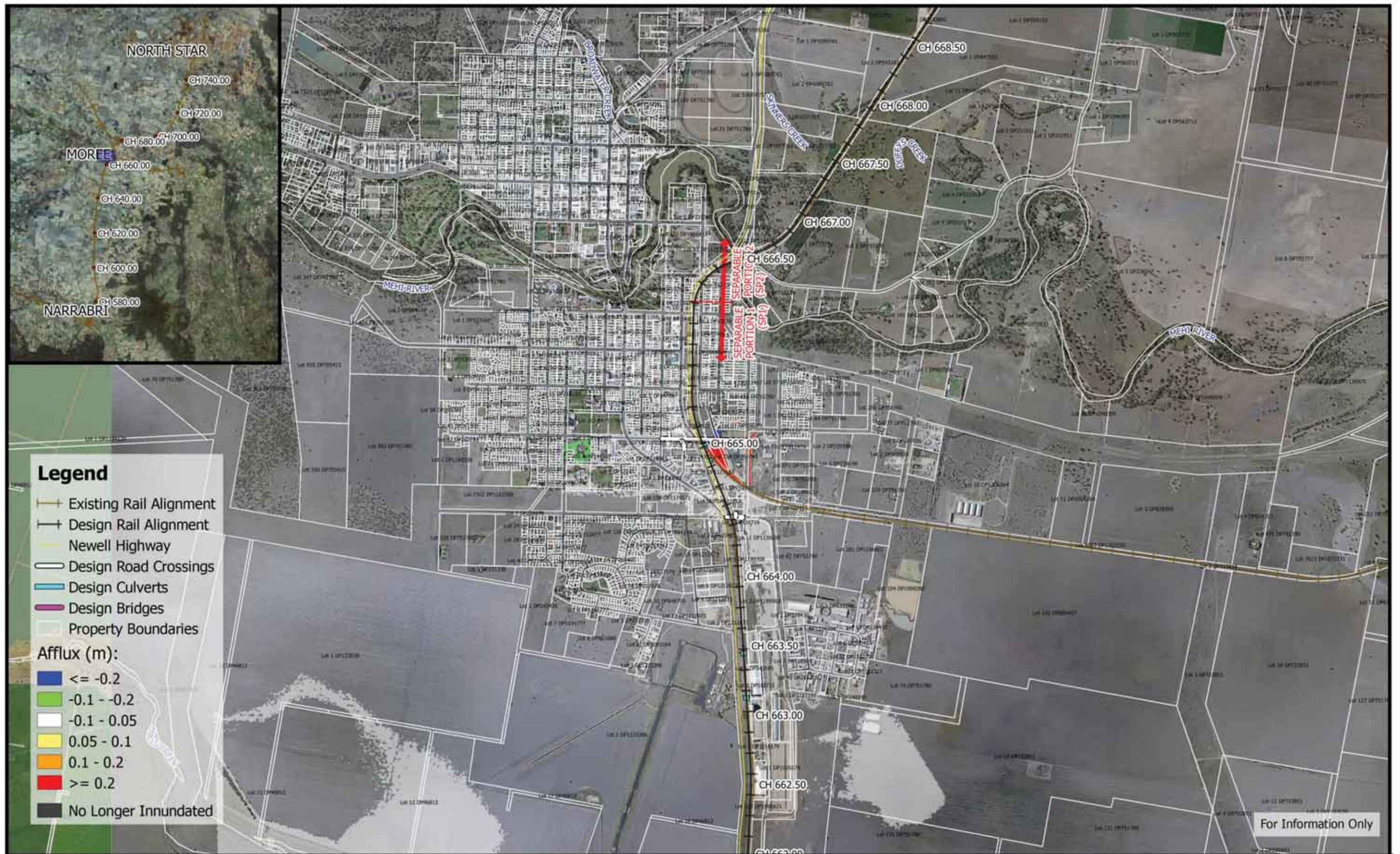
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			Rev A: For Information Only	
			Prepared By: stephensk	





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			Rev A: For Information Only	
			Prepared By: stephensk	



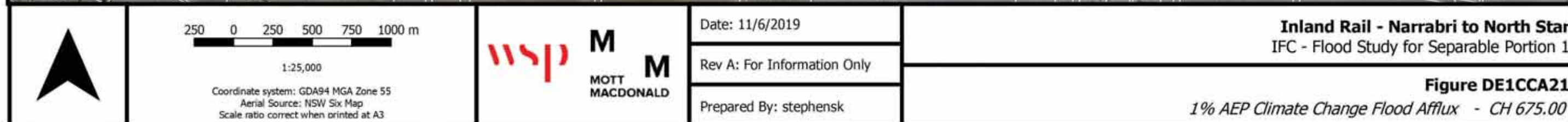


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			Rev A: For Information Only	
			Prepared By: stephensk	













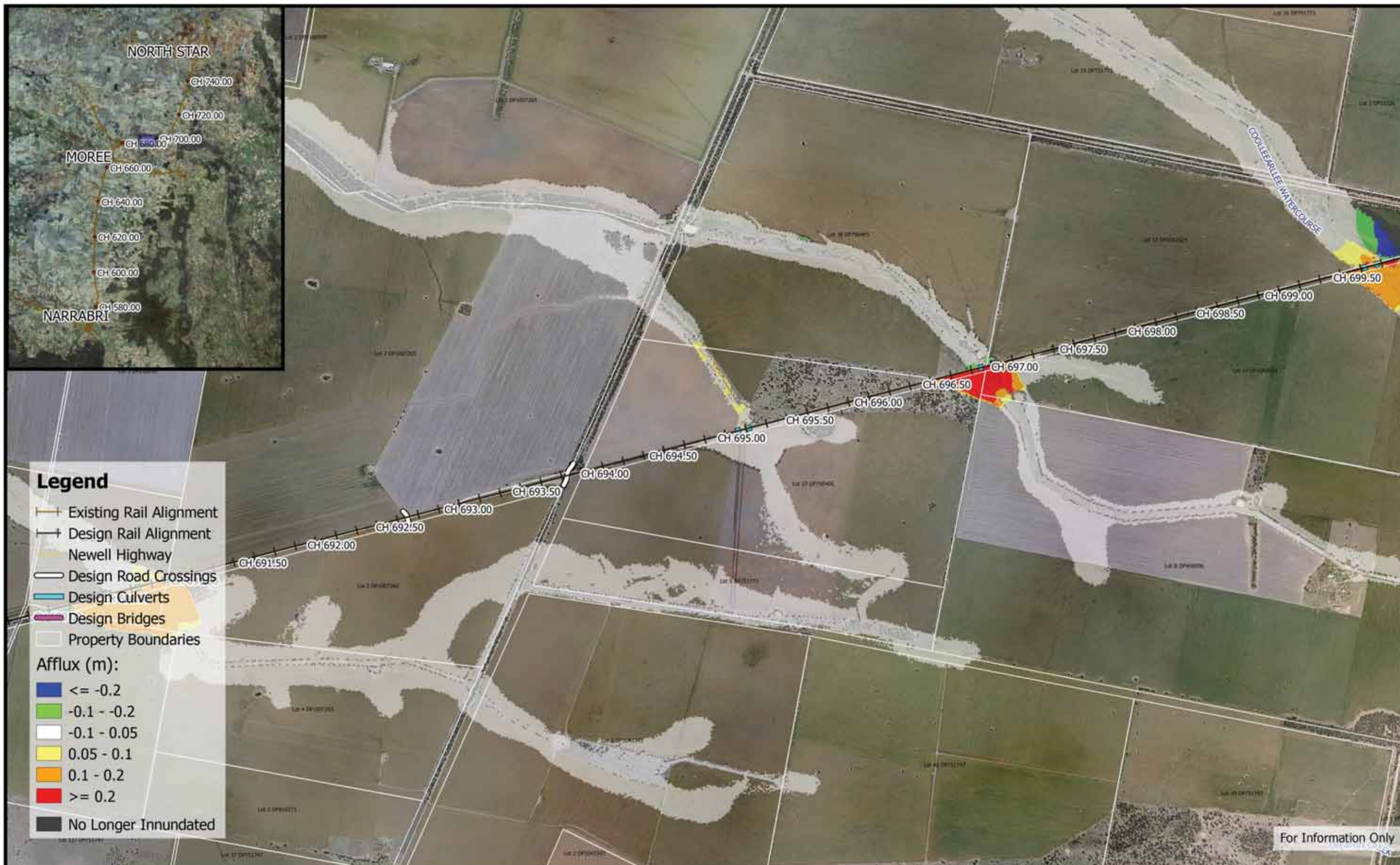














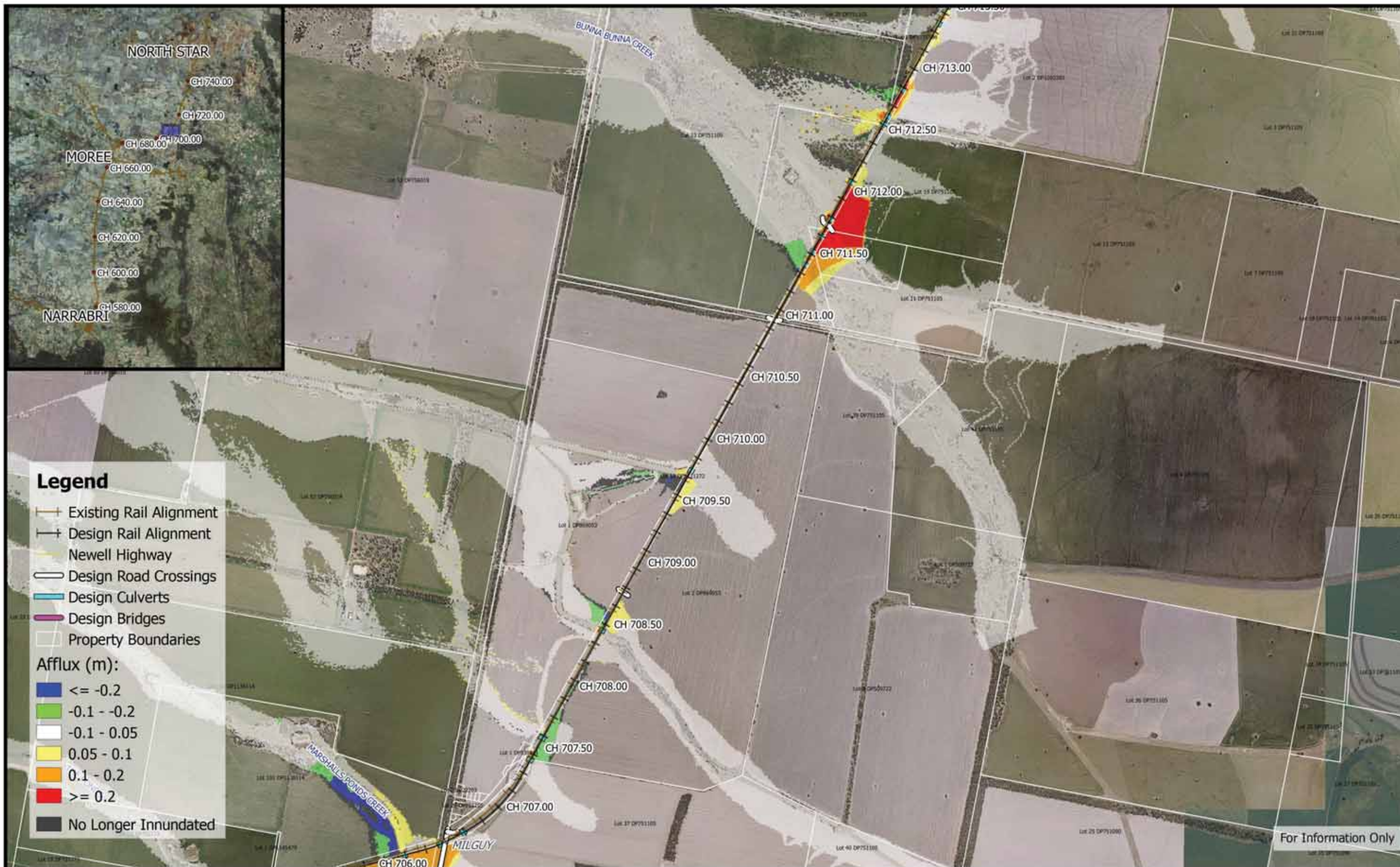






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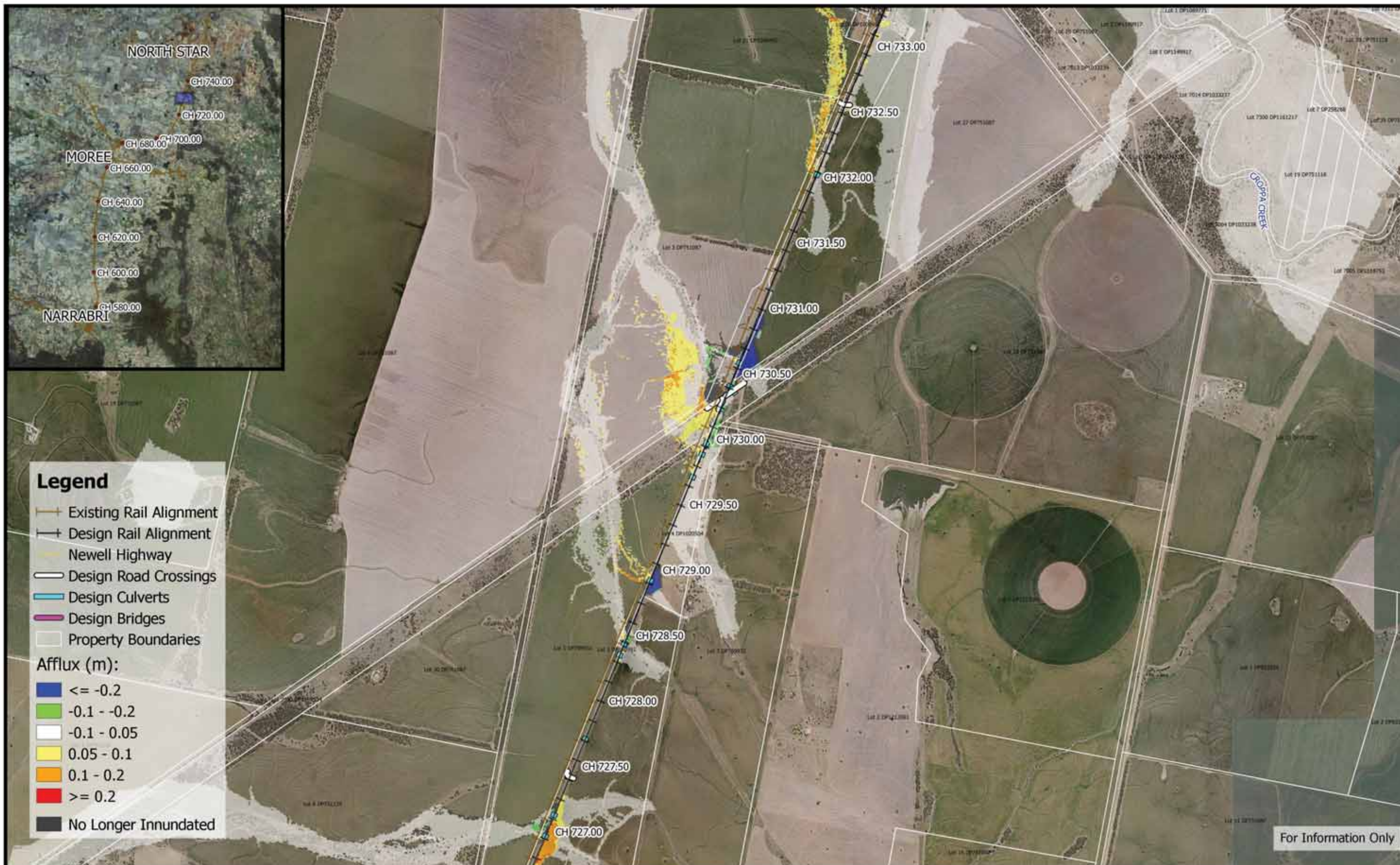










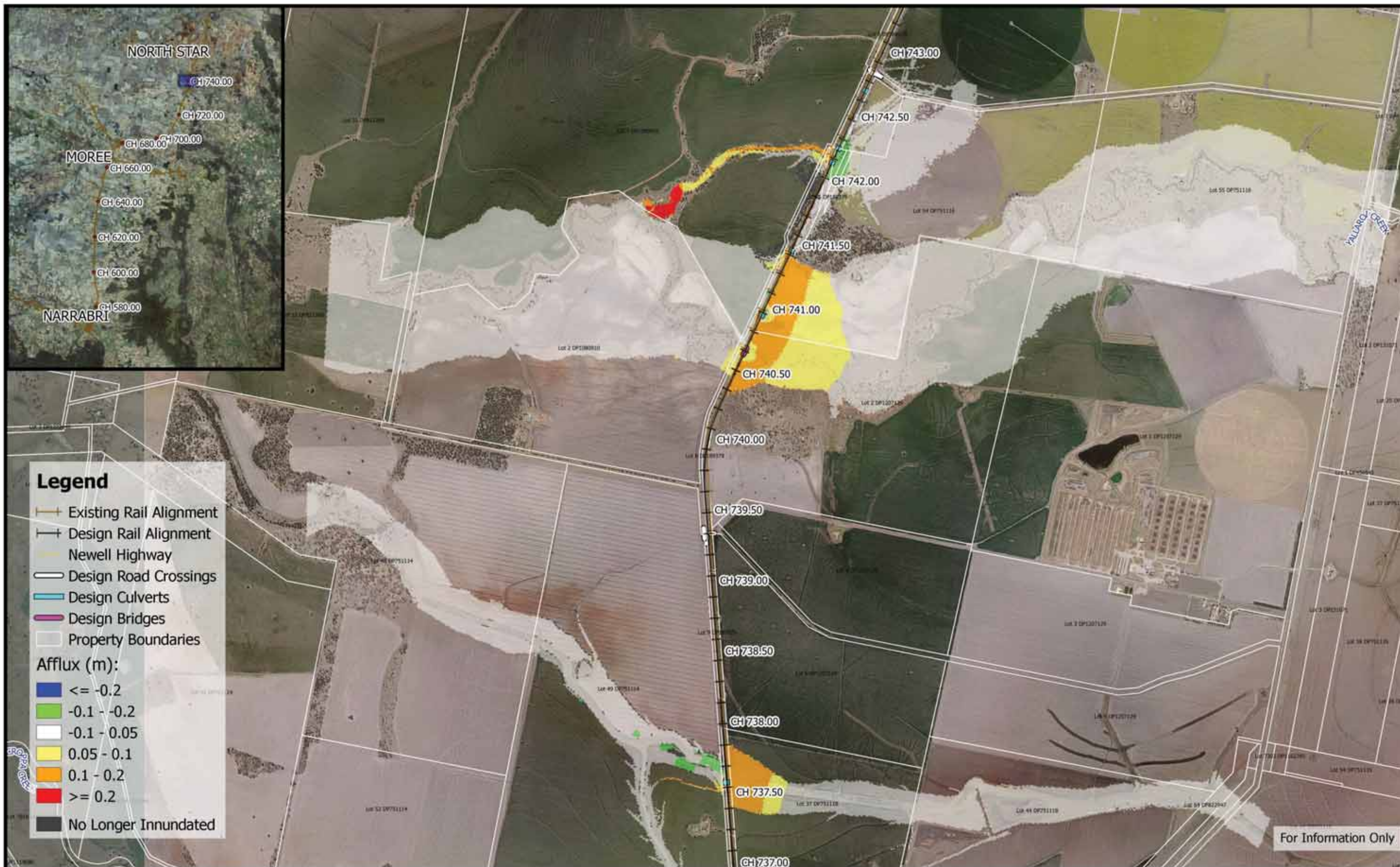


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			Rev A: For Information Only	
			Prepared By: stephensk	



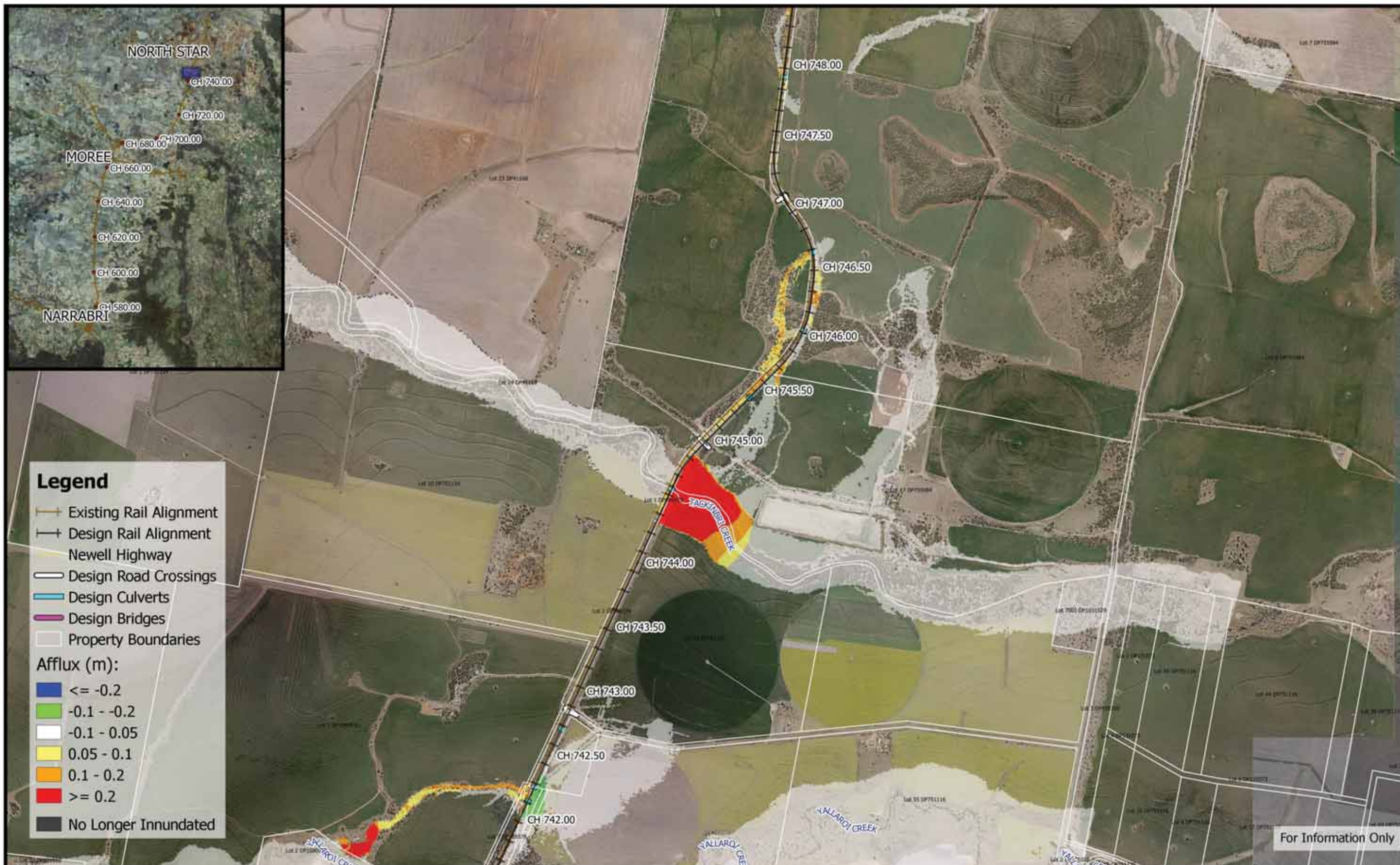






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			Rev A: For Information Only	
			Prepared By: stephensk	

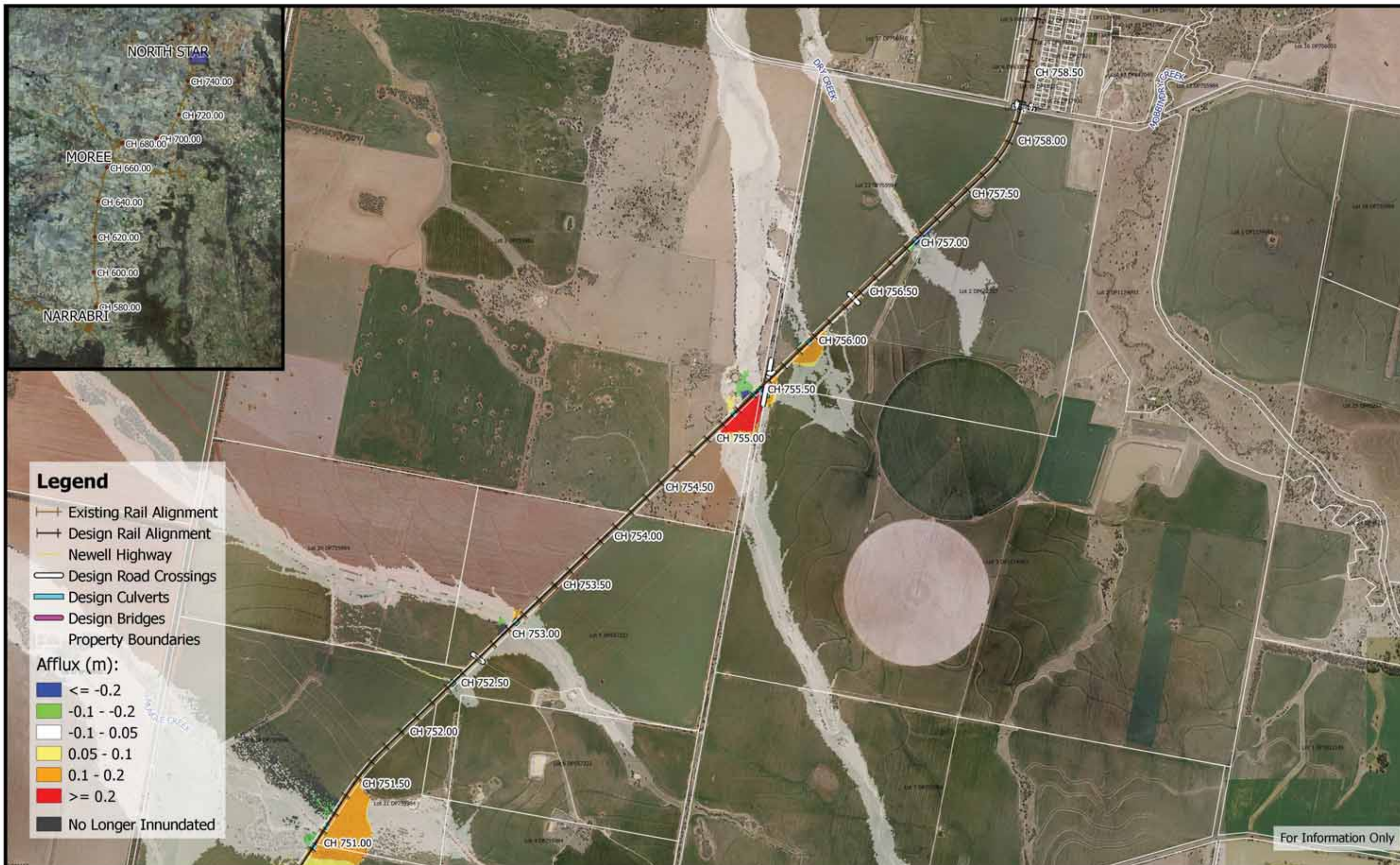












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			Rev A: For Information Only	
			Prepared By: stephensk	





	250 0 250 500 750 1000 m 1:25,000 Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Date: 11/6/2019	<b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1 <b>Figure DE1CCVC1</b> 1% AEP Climate Change Percentage Change In Velocity - CH 575.00
			Rev A: For Information Only	
			Prepared By: stephensk	

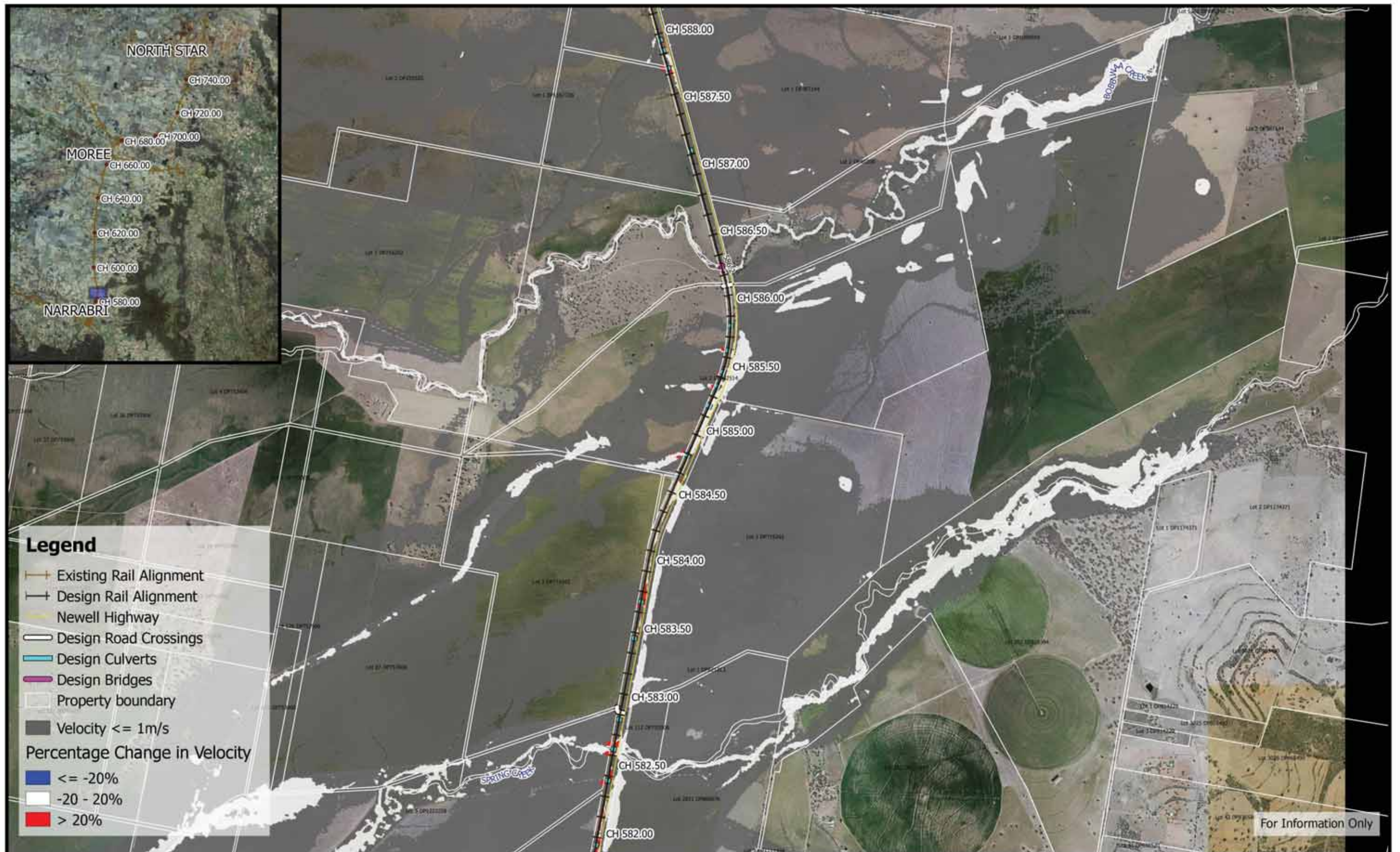




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			Rev A: For Information Only	
			Prepared By: stephensk	

**Figure DE1CCVC2**  
1% AEP Climate Change Percentage Change In Velocity - CH 580.00





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	250 0 250 500 750 1000 m 1:25,000 Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Date: 11/6/2019	<b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1  <b>Figure DE1CCVC4</b> 1% AEP Climate Change Percentage Change In Velocity - CH 590.00
			Rev A: For Information Only	
			Prepared By: stephensk	





	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>	<p><b>wsp</b> <b>M</b> <b>M</b></p> <p><b>MOTT</b> <b>MACDONALD</b></p>	<p>Date: 11/6/2019</p> <p>Rev A: For Information Only</p> <p>Prepared By: stephensk</p>	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCVC5</b> 1% AEP Climate Change Percentage Change In Velocity - CH 595.00</p>
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	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		<p>Date: 11/6/2019</p> <p>Rev A: For Information Only</p> <p>Prepared By: stephensk</p>	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCVC7</b> 1% AEP Climate Change Percentage Change In Velocity - CH 605.00</p>
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	250 0 250 500 750 1000 m 1:25,000 Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Date: 11/6/2019	<b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1  <b>Figure DE1CCVC8</b> 1% AEP Climate Change Percentage Change In Velocity - CH 610.00
			Rev A: For Information Only	
			Prepared By: stephensk	









	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 11/6/2019	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCVC10</b> 1% AEP Climate Change Percentage Change In Velocity - CH 620.00</p>
			Rev A: For Information Only	
			Prepared By: stephensk	





	 1:25,000		Date: 11/6/2019	<b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1
			Rev A: For Information Only	
			Prepared By: stephensk	

**Figure DE1CCVC11**  
1% AEP Climate Change Percentage Change In Velocity - CH 625.00





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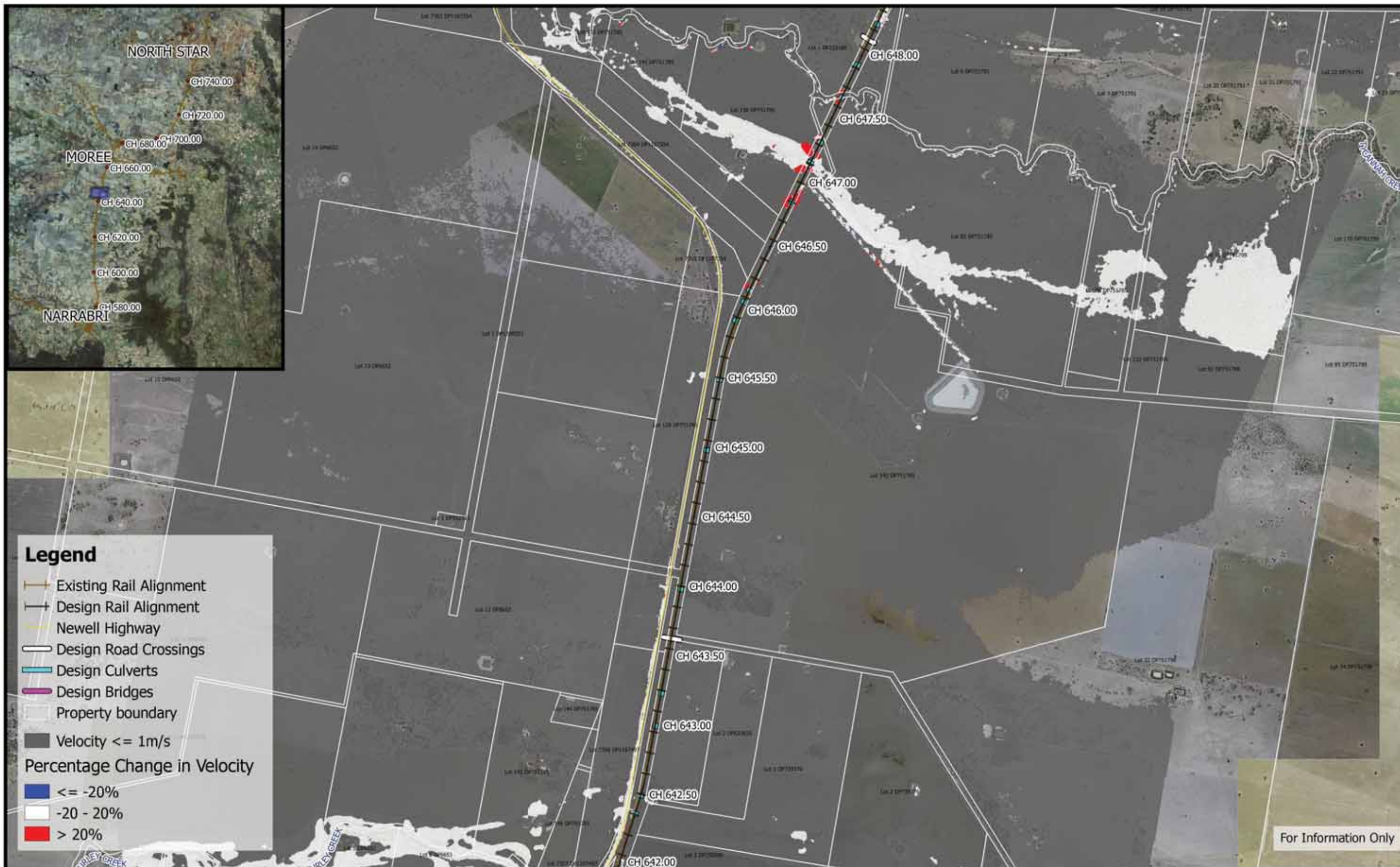
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			Rev A: For Information Only	
			Prepared By: stephensk	





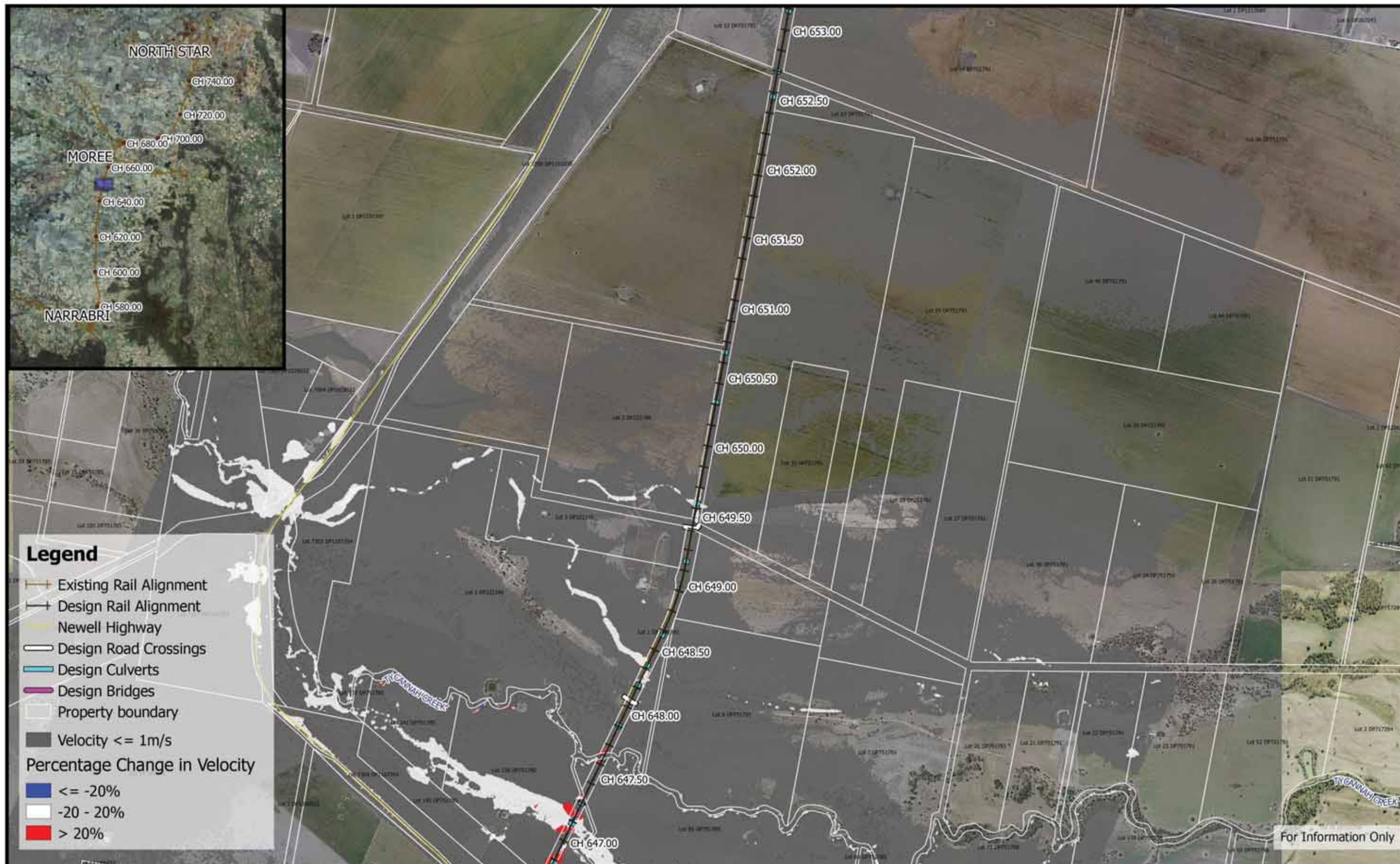
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			Rev A: For Information Only	
			Prepared By: stephensk	





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			Rev A: For Information Only	
			Prepared By: stephensk	





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			Rev A: For Information Only	
			Prepared By: stephensk	

**Figure DE1CCVC16**  
1% AEP Climate Change Percentage Change In Velocity - CH 650.00



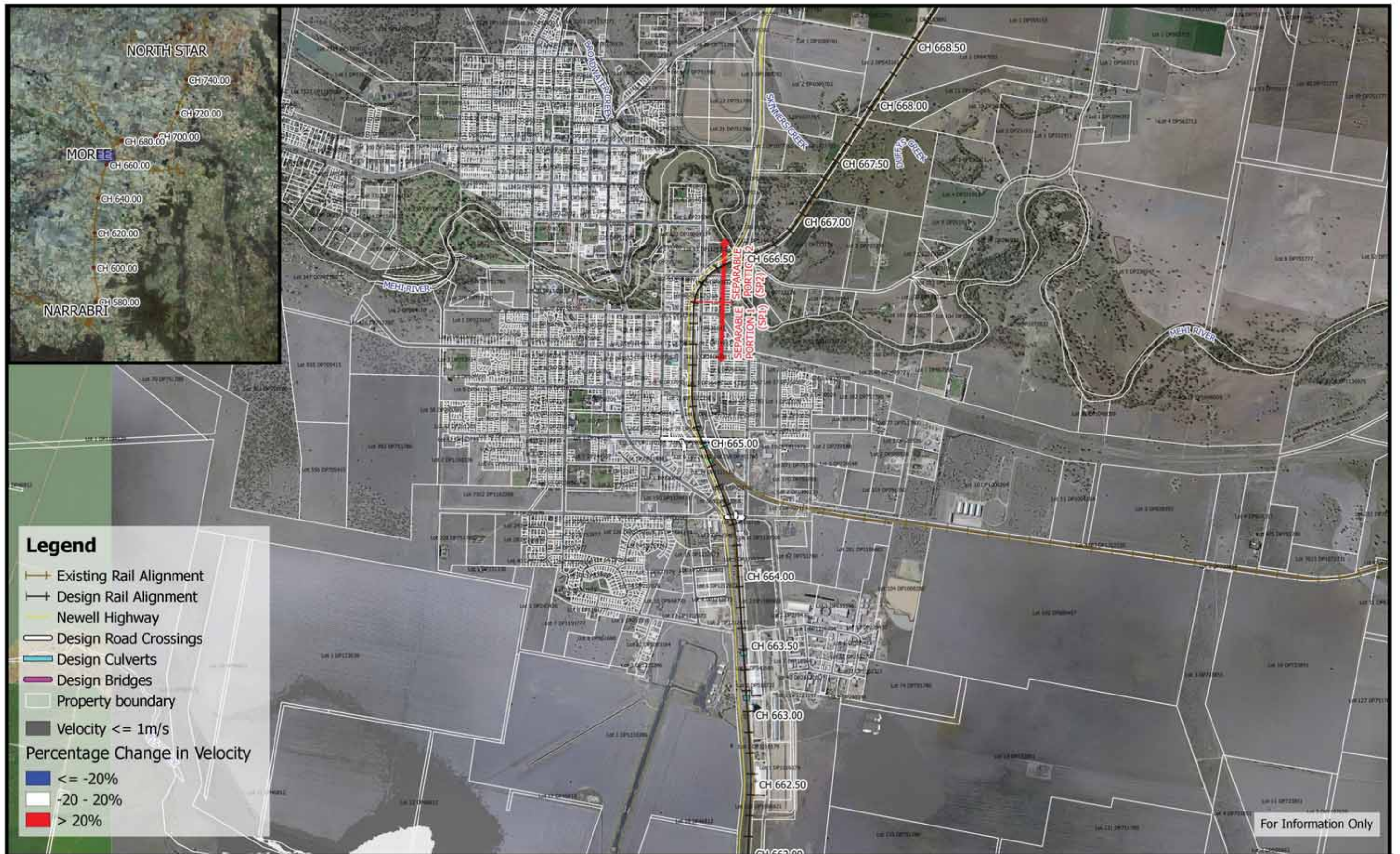


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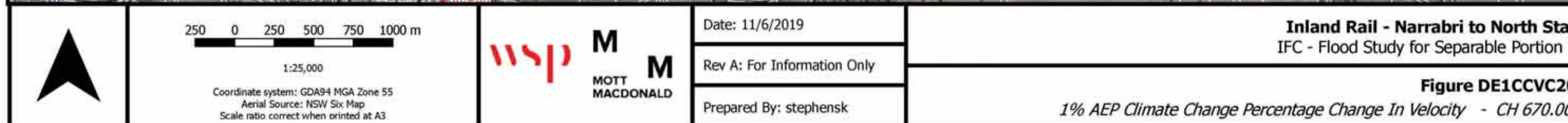






	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>	<p><b>M</b> MOTT MACDONALD</p>	<p>Date: 11/6/2019</p> <p>Rev A: For Information Only</p> <p>Prepared By: stephensk</p>	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCVC19</b> 1% AEP Climate Change Percentage Change In Velocity - CH 665.00</p>
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	<p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 11/6/2019	<b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1
			Rev A: For Information Only	
			Prepared By: stephensk	




**Figure DE1CCVC21**  
1% AEP Climate Change Percentage Change In Velocity - CH 675.00









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			Rev A: For Information Only	
			Prepared By: stephensk	





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			Rev A: For Information Only	
			Prepared By: stephensk	





**Inland Rail - Narrabri to North Star**  
 IFC - Flood Study for Separable Portion 1

**Figure DE1CCVC27**

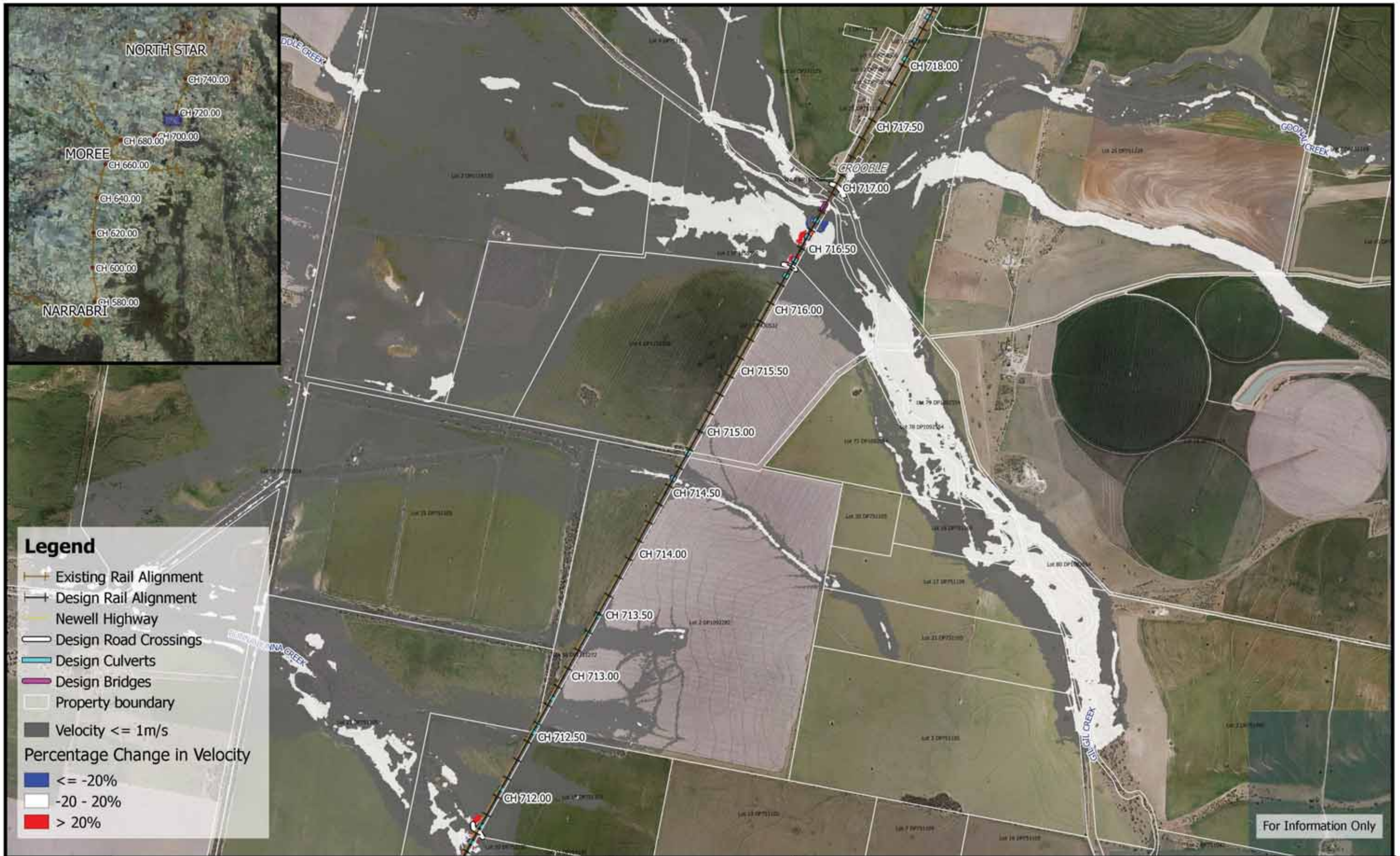
**1% AEP Climate Change Percentage Change In Velocity - CH 705.00**





	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 11/6/2019	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCVC28</b> 1% AEP Climate Change Percentage Change In Velocity - CH 710.00</p>
			Rev A: For Information Only	
			Prepared By: stephensk	





	 1:25,000 Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Date: 11/6/2019	<b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1  <b>Figure DE1CCVC29</b> 1% AEP Climate Change Percentage Change In Velocity - CH 715.00
			Rev A: For Information Only	
			Prepared By: stephensk	





	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		<p>Date: 11/6/2019</p> <p>Rev A: For Information Only</p> <p>Prepared By: stephensk</p>	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCVC30</b> 1% AEP Climate Change Percentage Change In Velocity - CH 720.00</p>
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	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		<p>Date: 11/6/2019</p> <p>Rev A: For Information Only</p> <p>Prepared By: stephensk</p>	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCVC31</b> 1% AEP Climate Change Percentage Change In Velocity - CH 725.00</p>
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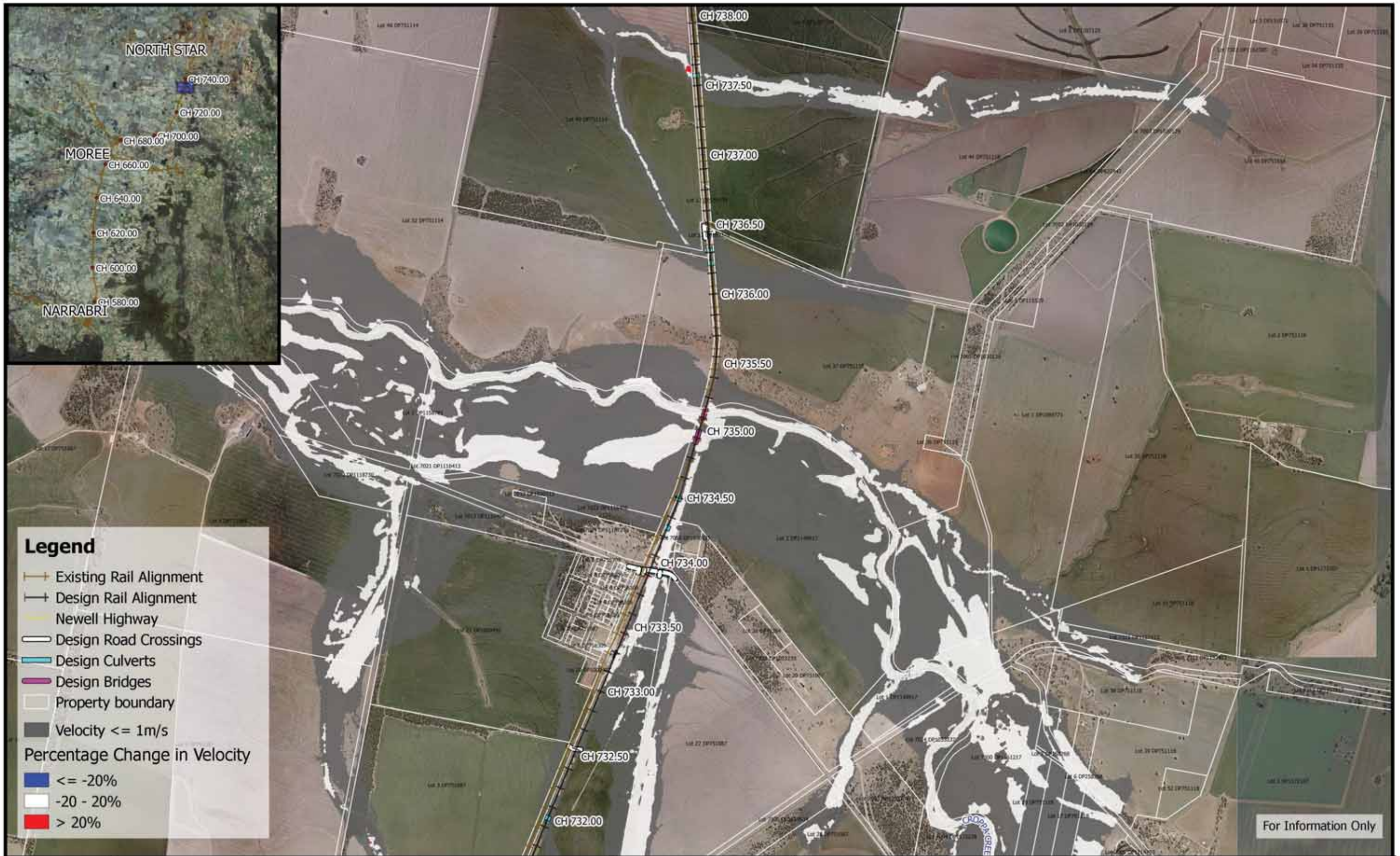




	 1:25,000		Date: 11/6/2019	<b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1
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			Prepared By: stephensk	

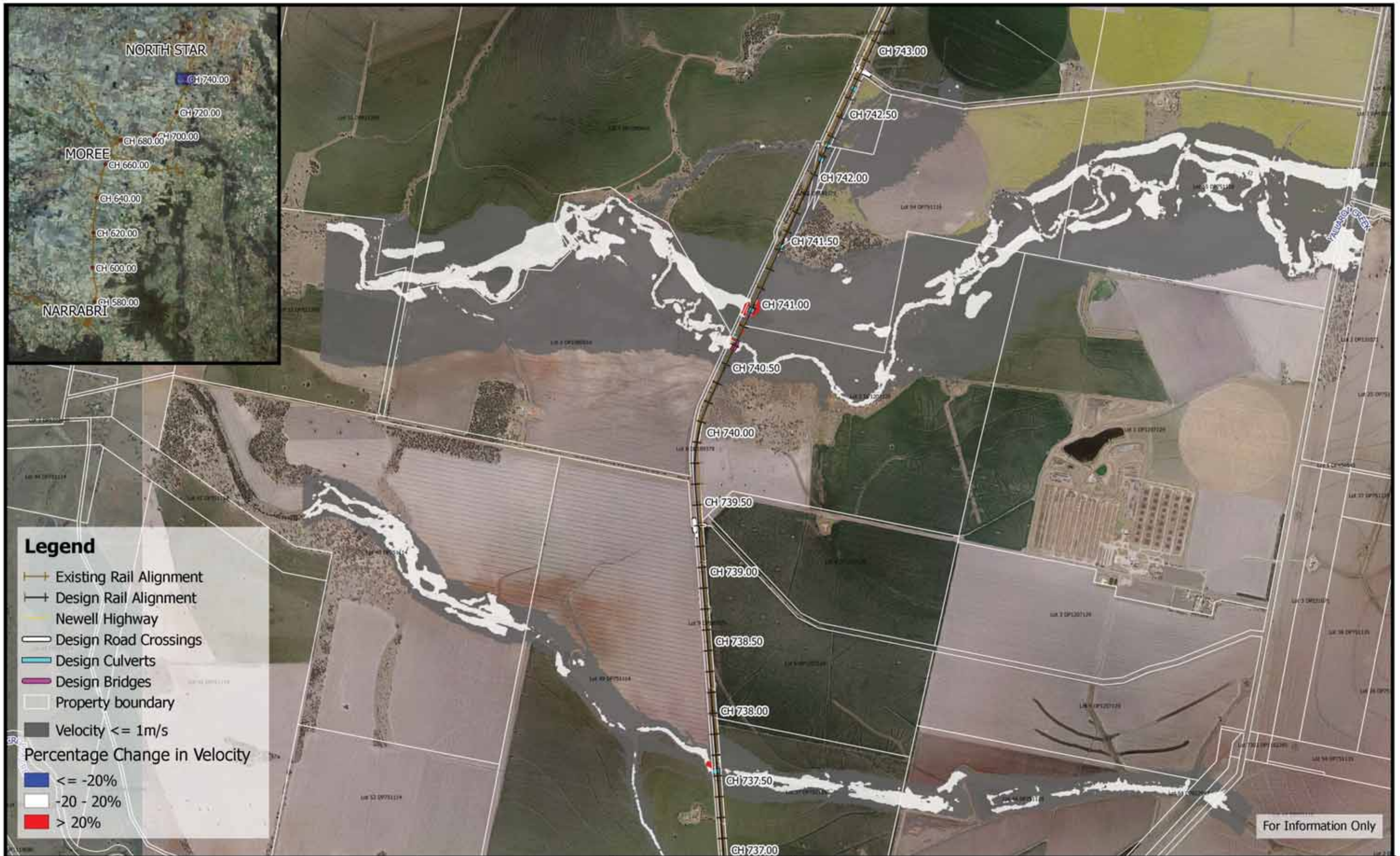
**Figure DE1CCVC32**  
1% AEP Climate Change Percentage Change In Velocity - CH 730.00





	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>	<p><b>wsp</b> <b>M</b> <b>M</b></p> <p><b>MOTT</b> <b>MACDONALD</b></p>	<p>Date: 11/6/2019</p> <p>Rev A: For Information Only</p> <p>Prepared By: stephensk</p>	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCVC33</b> 1% AEP Climate Change Percentage Change In Velocity - CH 735.00</p>
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	250 0 250 500 750 1000 m 1:25,000 Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Date: 11/6/2019	<b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1  <b>Figure DE1CCVC34</b> 1% AEP Climate Change Percentage Change In Velocity - CH 740.00
			Rev A: For Information Only	
			Prepared By: stephensk	





	 1:25,000 Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Date: 11/6/2019	<b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1  <b>Figure DE1CCVC35</b> 1% AEP Climate Change Percentage Change In Velocity - CH 745.00
			Rev A: For Information Only	
			Prepared By: stephensk	





	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 11/6/2019	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCVC36</b> 1% AEP Climate Change Percentage Change In Velocity - CH 750.00</p>
			Rev A: For Information Only	
			Prepared By: stephensk	



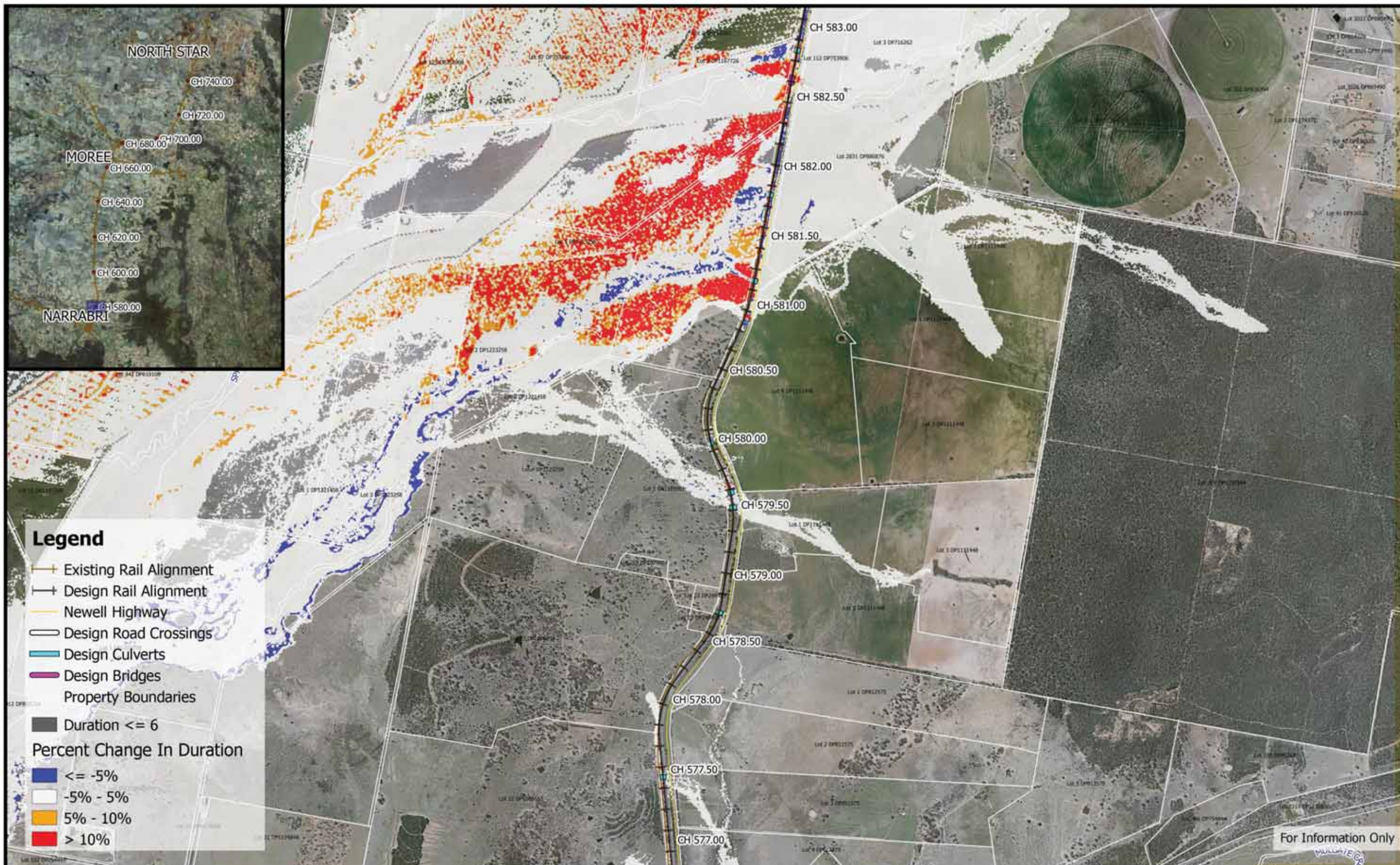




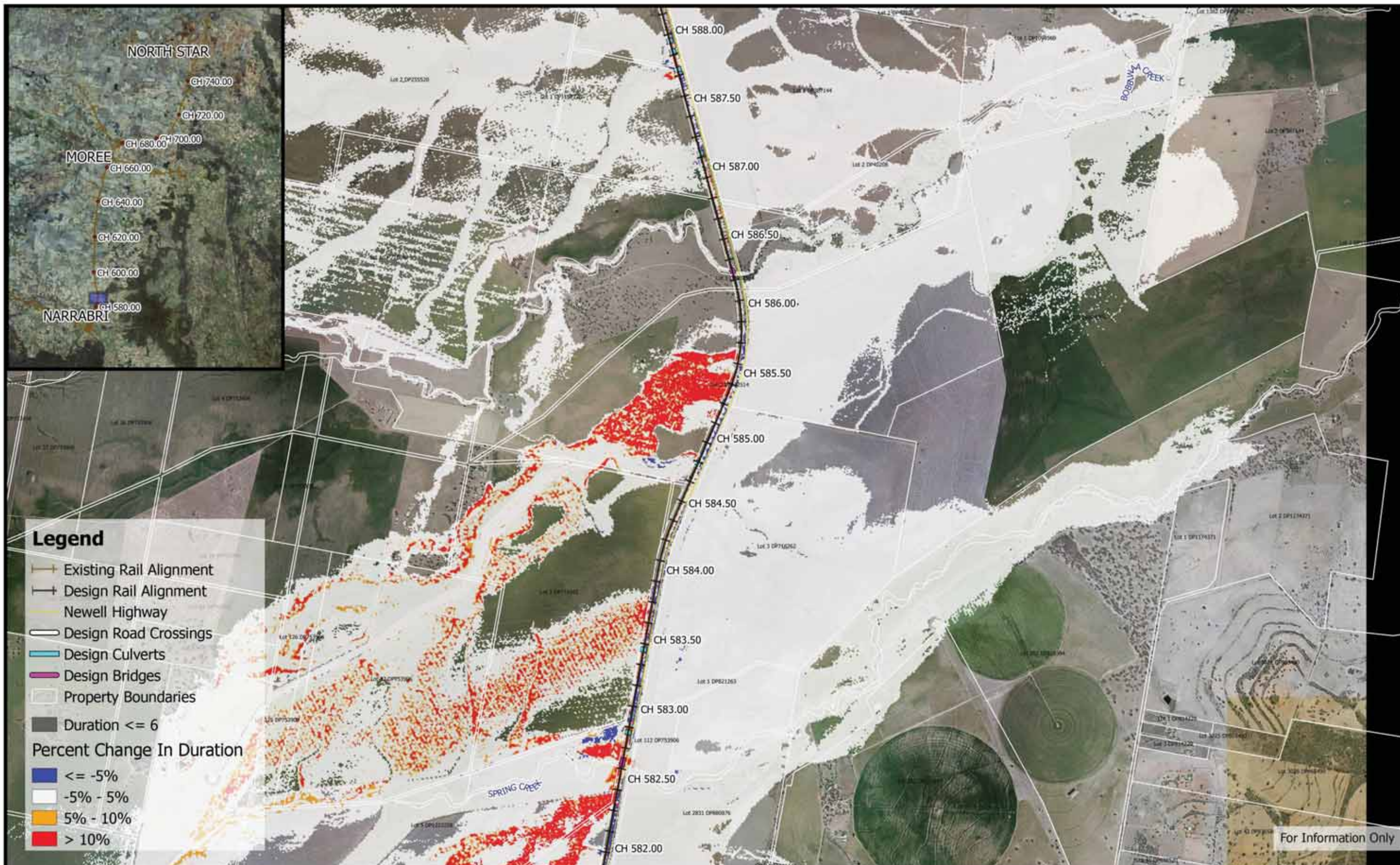


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			Rev A: For Information Only	
			Prepared By: stephensk	

















	<p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 11/6/2019	<b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1  <b>Figure DE1CCD5</b> 1% AEP Climate Change Percentage Change In Duration For Flood Depths >200mm - CH 595.00
			Rev A: For Information Only	
			Prepared By: stephensk	





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			Rev A: For Information Only	
			Prepared By: stephensk	





	250 0 250 500 750 1000 m 1:25,000 Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Date: 11/6/2019	<b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1 <b>Figure DE1CCD7</b> 1% AEP Climate Change Percentage Change In Duration For Flood Depths >200mm - CH 605.00
			Rev A: For Information Only	
			Prepared By: stephensk	









	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 11/6/2019	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCD9</b> 1% AEP Climate Change Percentage Change In Duration For Flood Depths &gt;200mm - CH 615.00</p>
			Rev A: For Information Only	
			Prepared By: stephensk	





	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 11/6/2019	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCD10</b> 1% AEP Climate Change Percentage Change In Duration For Flood Depths &gt;200mm - CH 620.00</p>
			Rev A: For Information Only	
			Prepared By: stephensk	



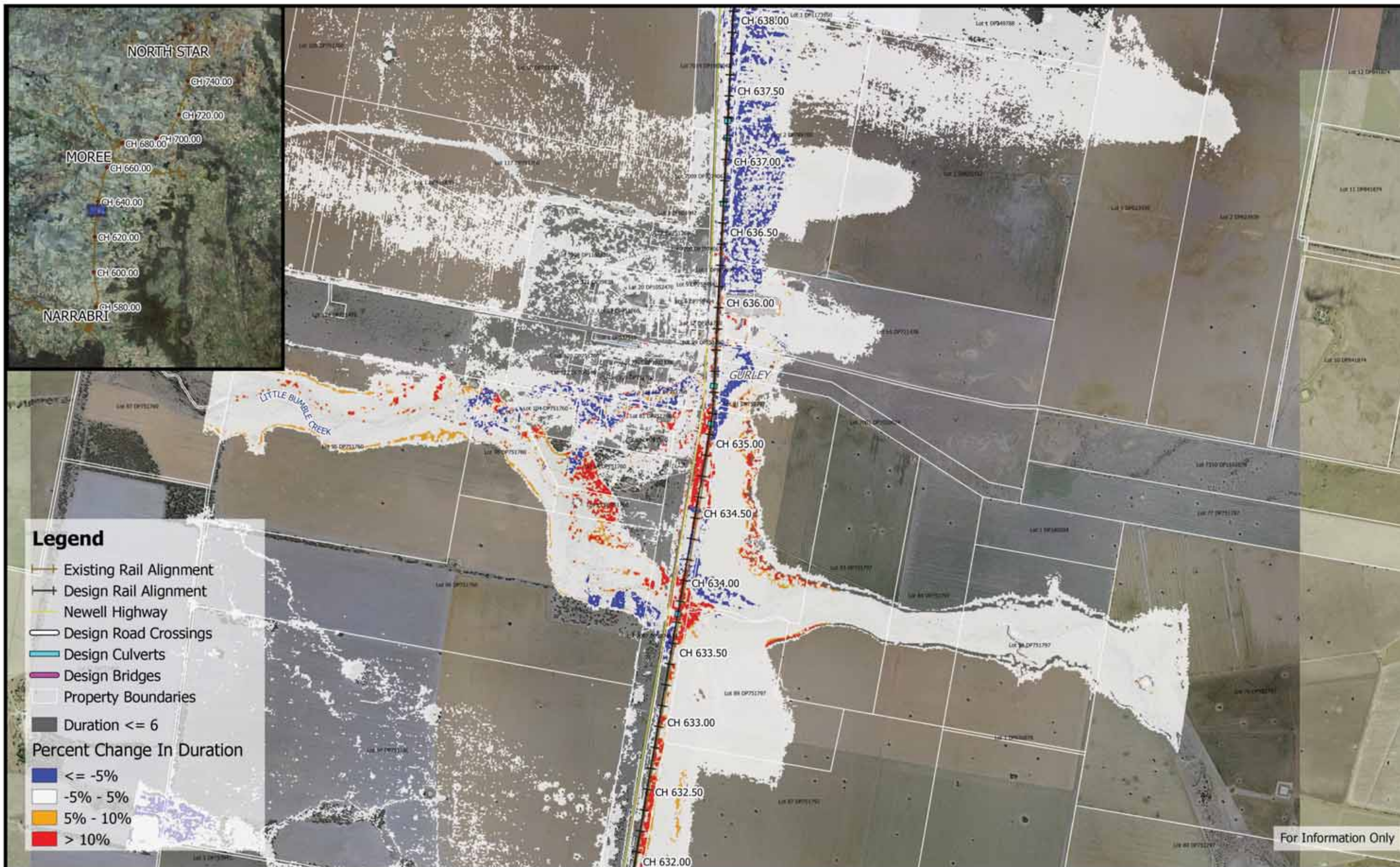


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			Rev A: For Information Only	
			Prepared By: stephensk	



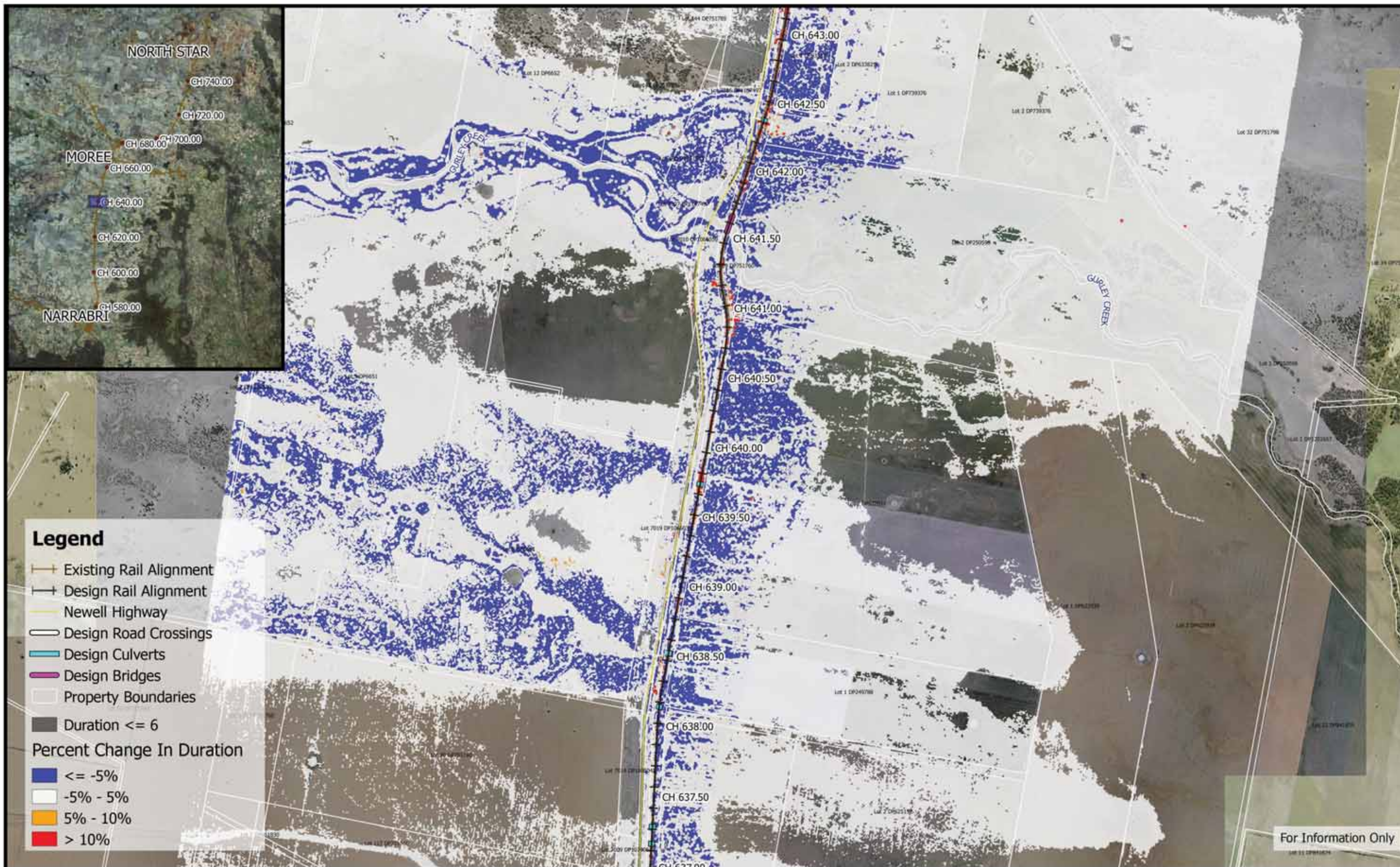






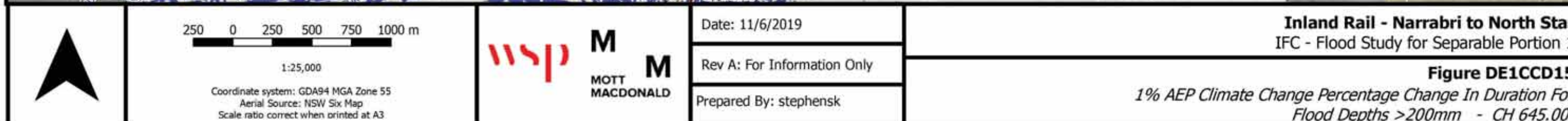
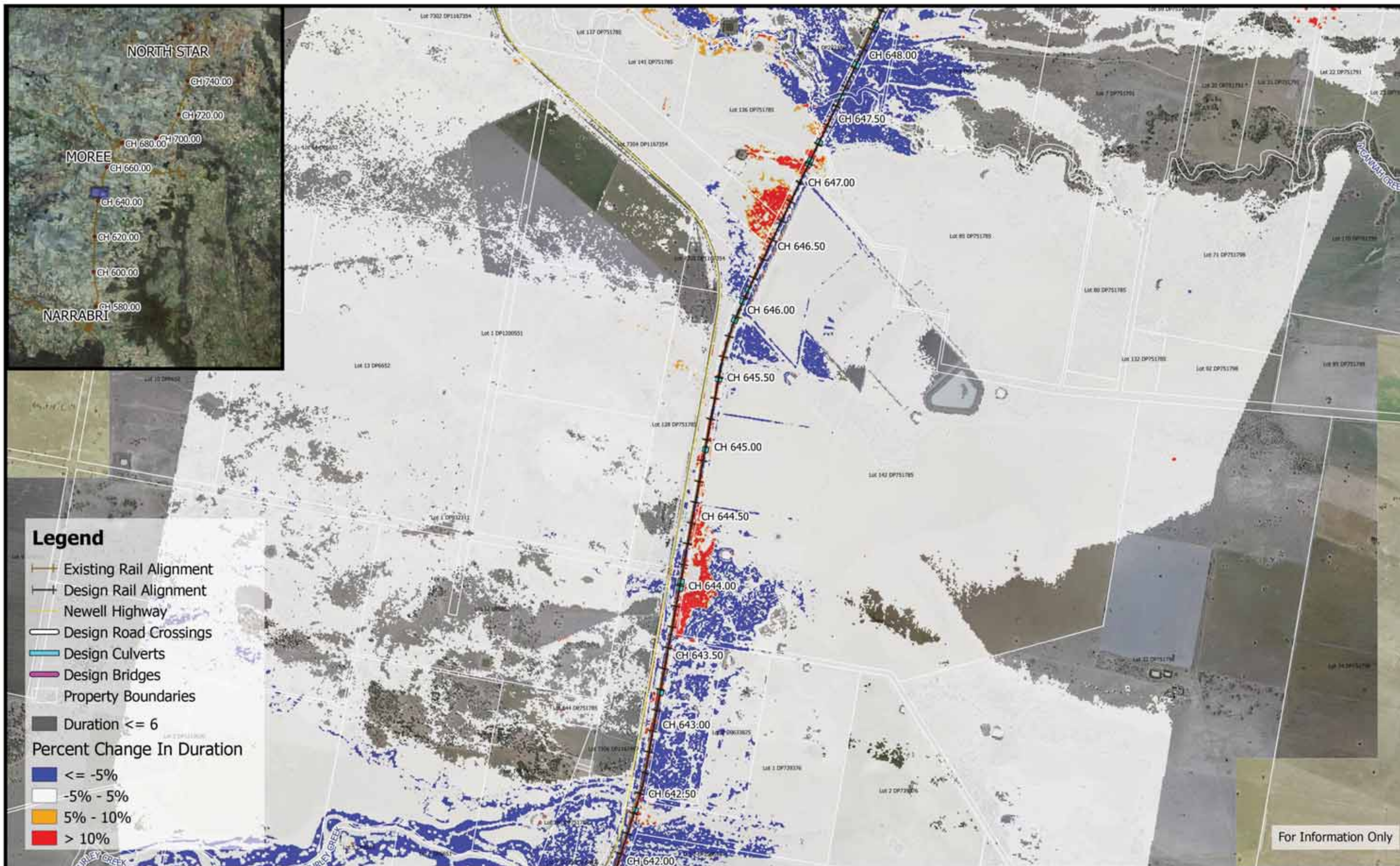
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			Rev A: For Information Only	
			Prepared By: stephensk	





	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 11/6/2019	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCD14</b> 1% AEP Climate Change Percentage Change In Duration For Flood Depths &gt;200mm - CH 640.00</p>
			Rev A: For Information Only	
			Prepared By: stephensk	





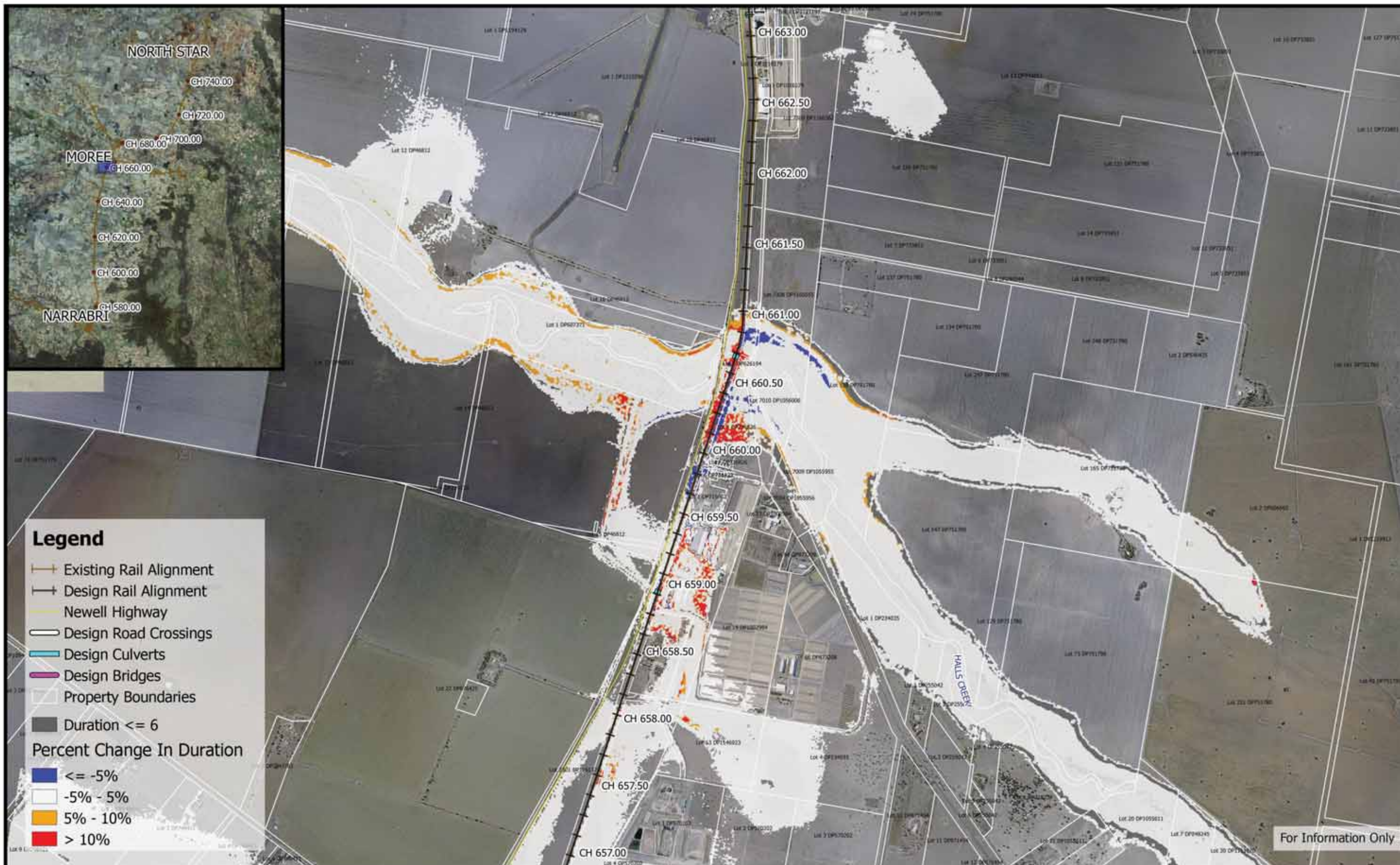






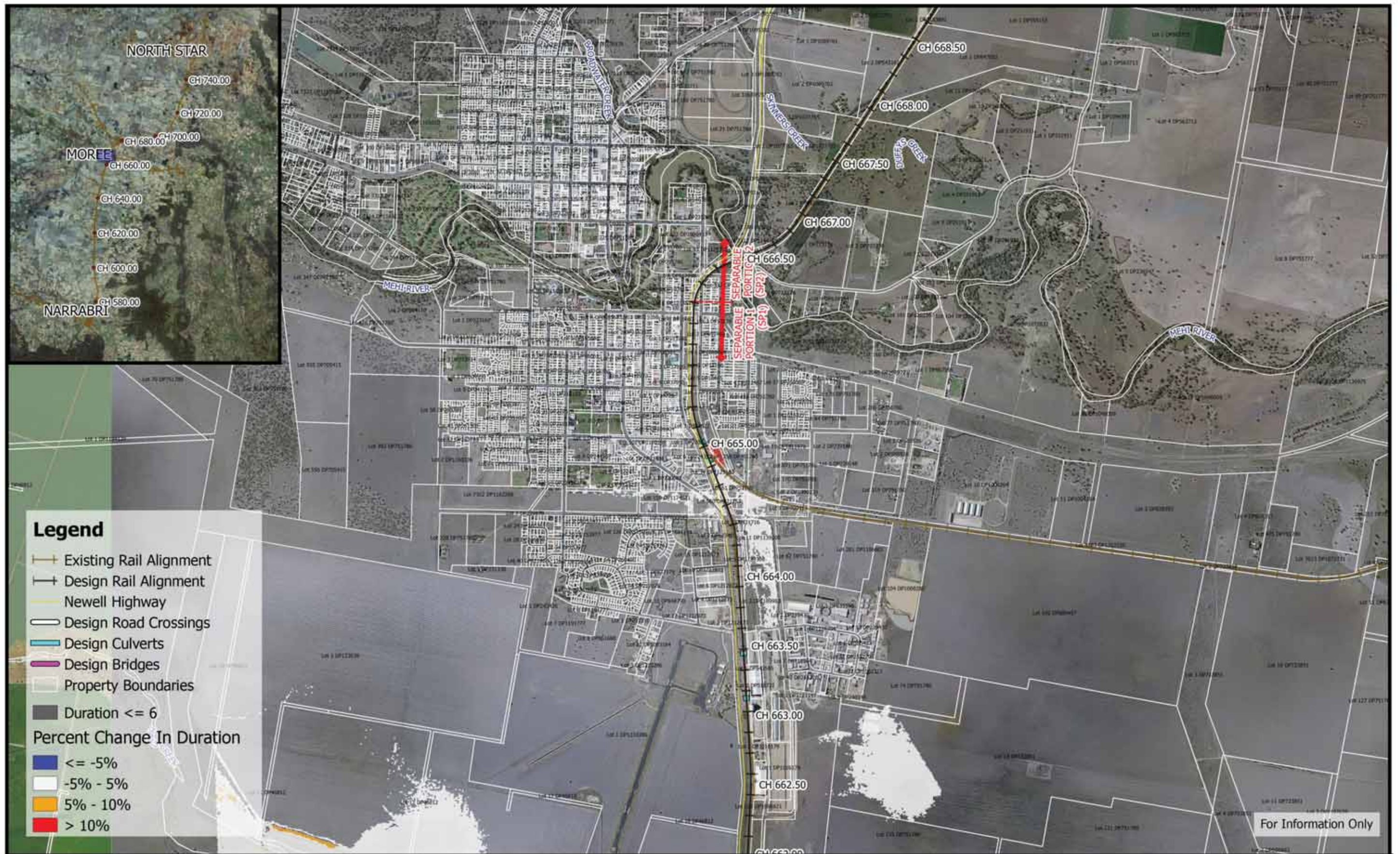






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			Rev A: For Information Only	
			Prepared By: stephensk	




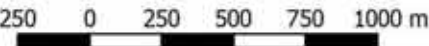











	 1:25,000 Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3		Date: 11/6/2019	<b>Inland Rail - Narrabri to North Star</b> <b>IFC - Flood Study for Separable Portion 1</b>  <b>Figure DE1CCD21</b> 1% AEP Climate Change Percentage Change In Duration For Flood Depths >200mm - CH 675.00
			Rev A: For Information Only	
			Prepared By: stephensk	

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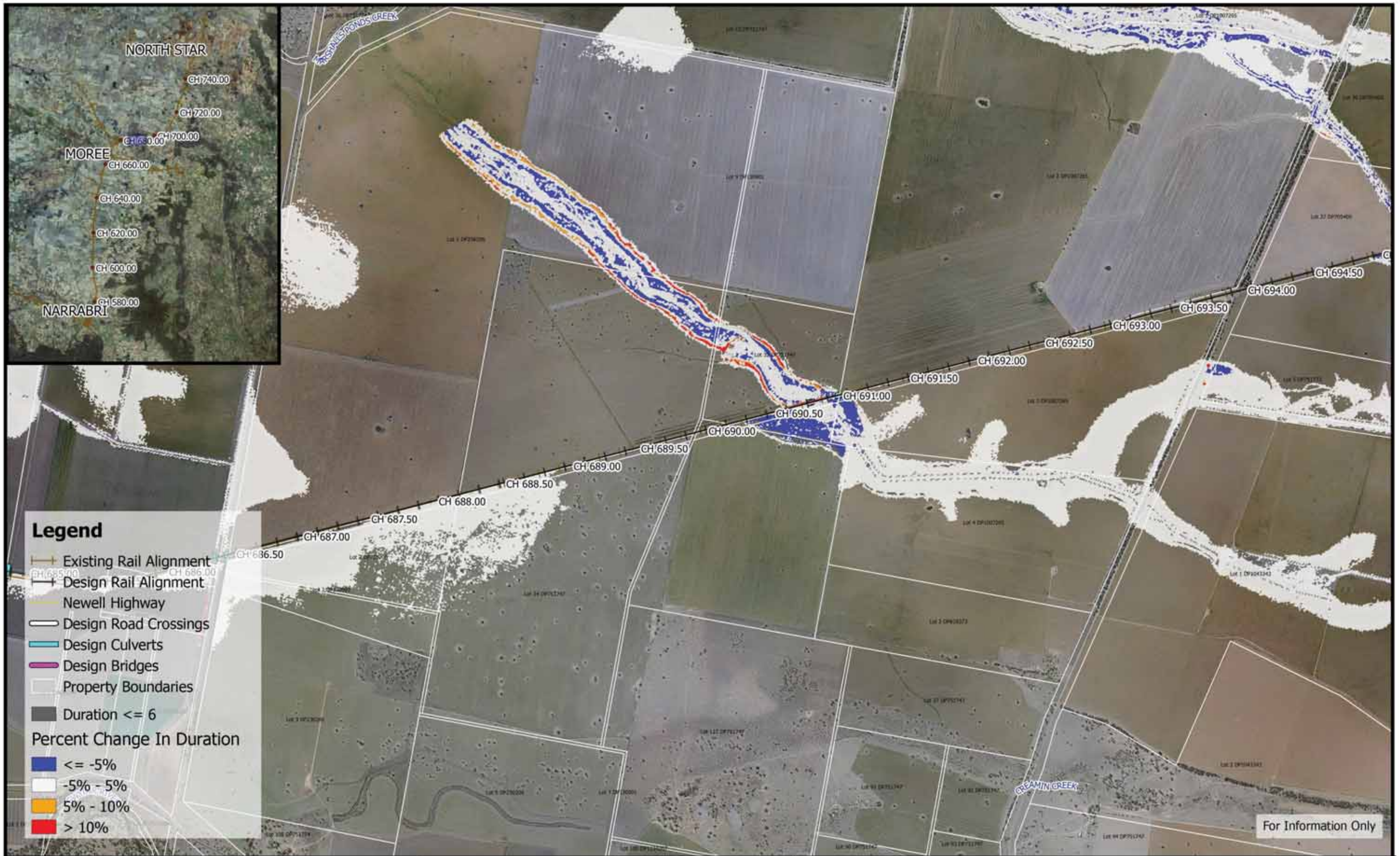
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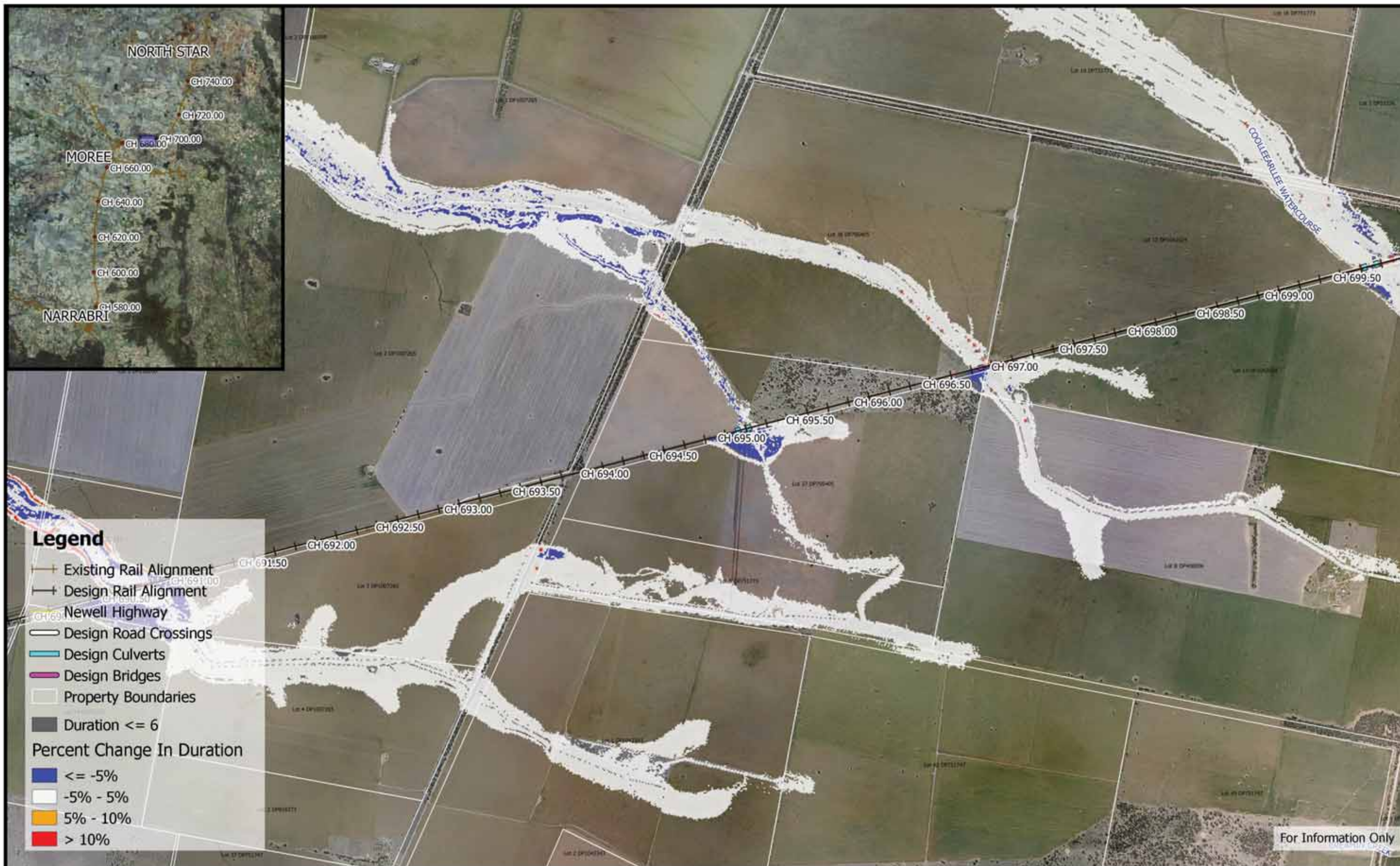


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			Rev A: For Information Only	
			Prepared By: stephensk	



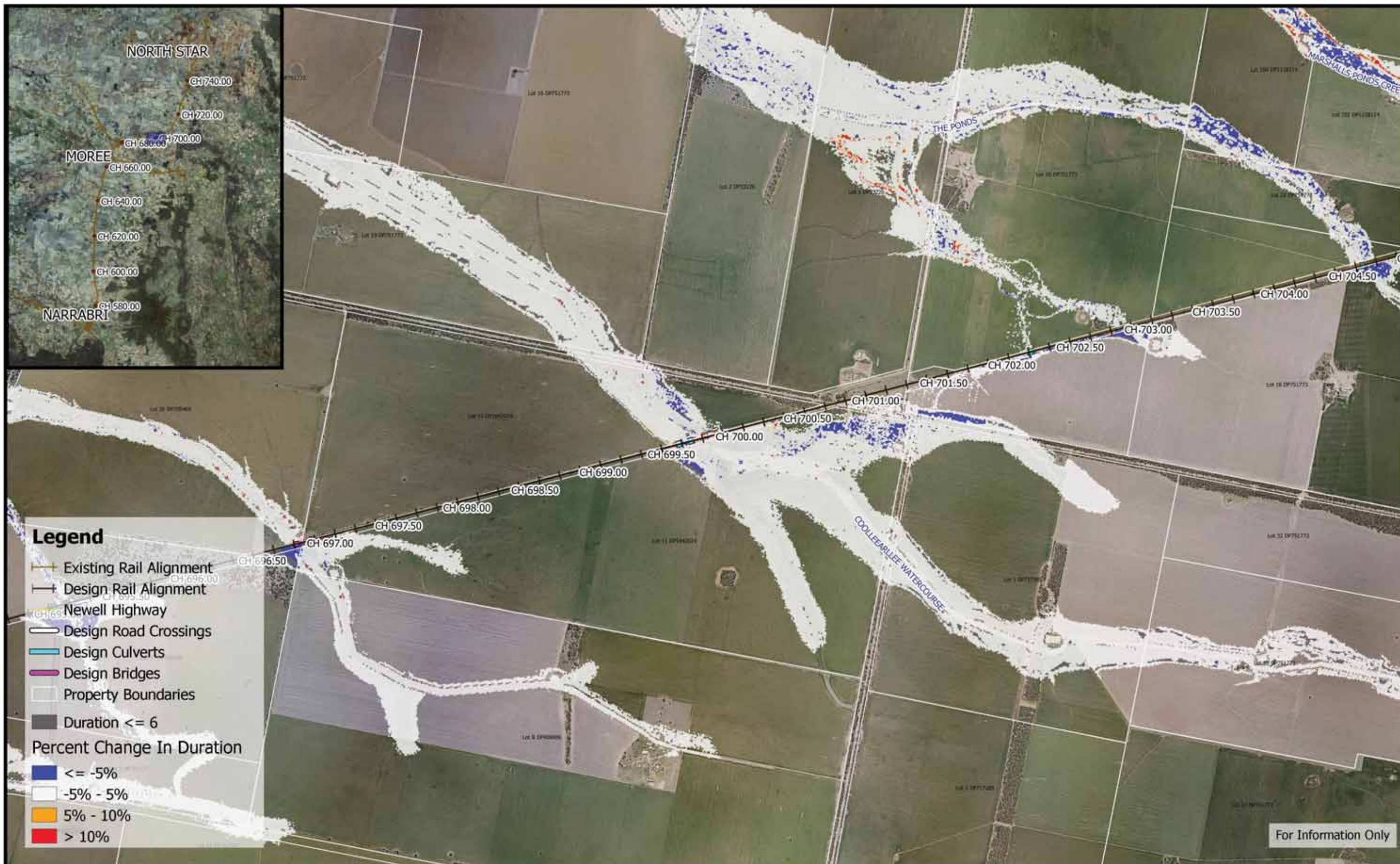






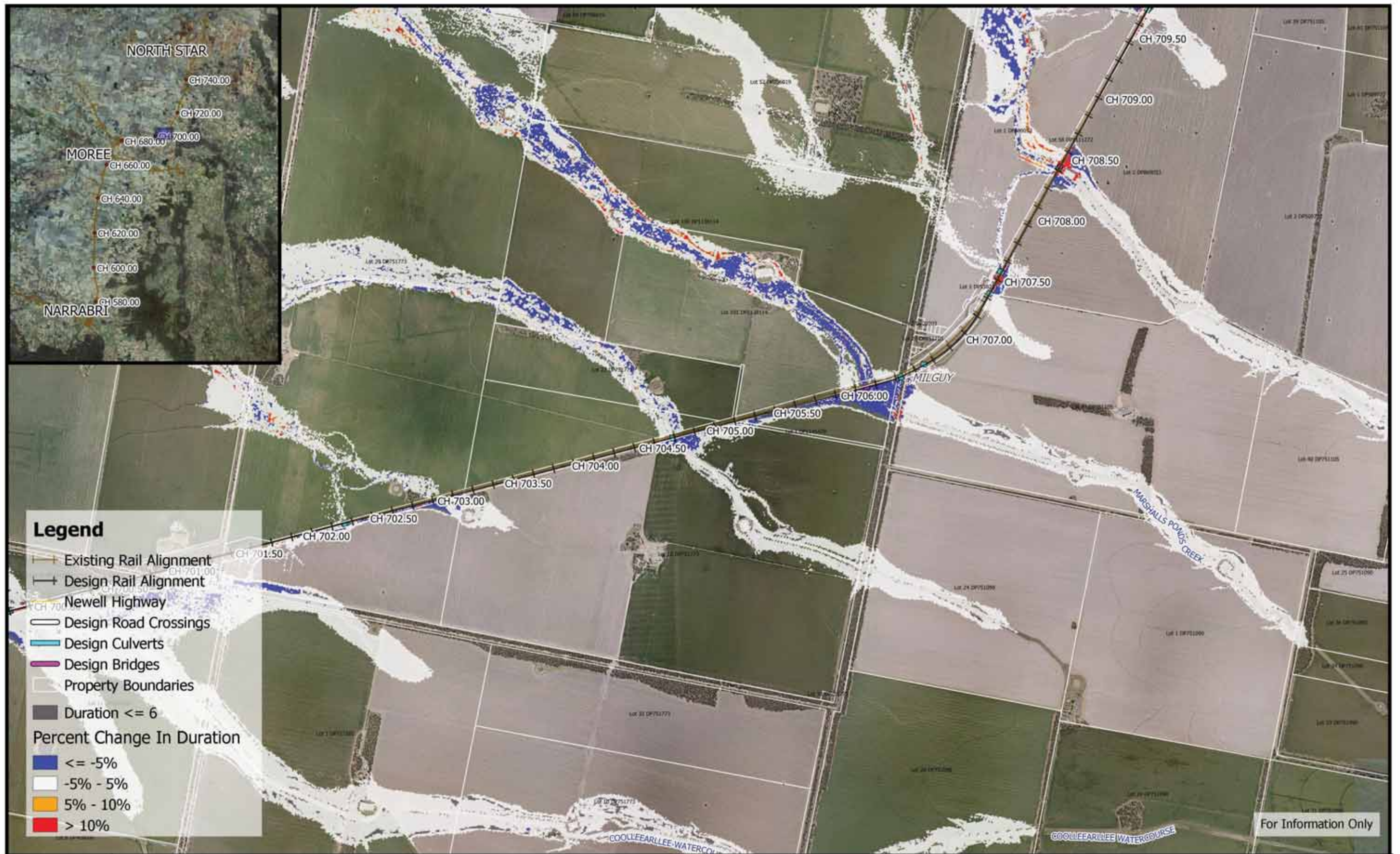
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			Rev A: For Information Only	
			Prepared By: stephensk	





	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>		Date: 11/6/2019	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCD26</b> 1% AEP Climate Change Percentage Change In Duration For Flood Depths &gt;200mm - CH 700.00</p>
			Rev A: For Information Only	
			Prepared By: stephensk	





	<p>250 0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA94 MGA Zone 55 Aerial Source: NSW Six Map Scale ratio correct when printed at A3</p>	<p><b>wsp</b> <b>M</b> <b>M</b></p> <p><b>MOTT</b> <b>MACDONALD</b></p>	<p>Date: 11/6/2019</p> <p>Rev A: For Information Only</p> <p>Prepared By: stephensk</p>	<p><b>Inland Rail - Narrabri to North Star</b> IFC - Flood Study for Separable Portion 1</p> <p><b>Figure DE1CCD27</b> 1% AEP Climate Change Percentage Change In Duration For Flood Depths &gt;200mm - CH 705.00</p>
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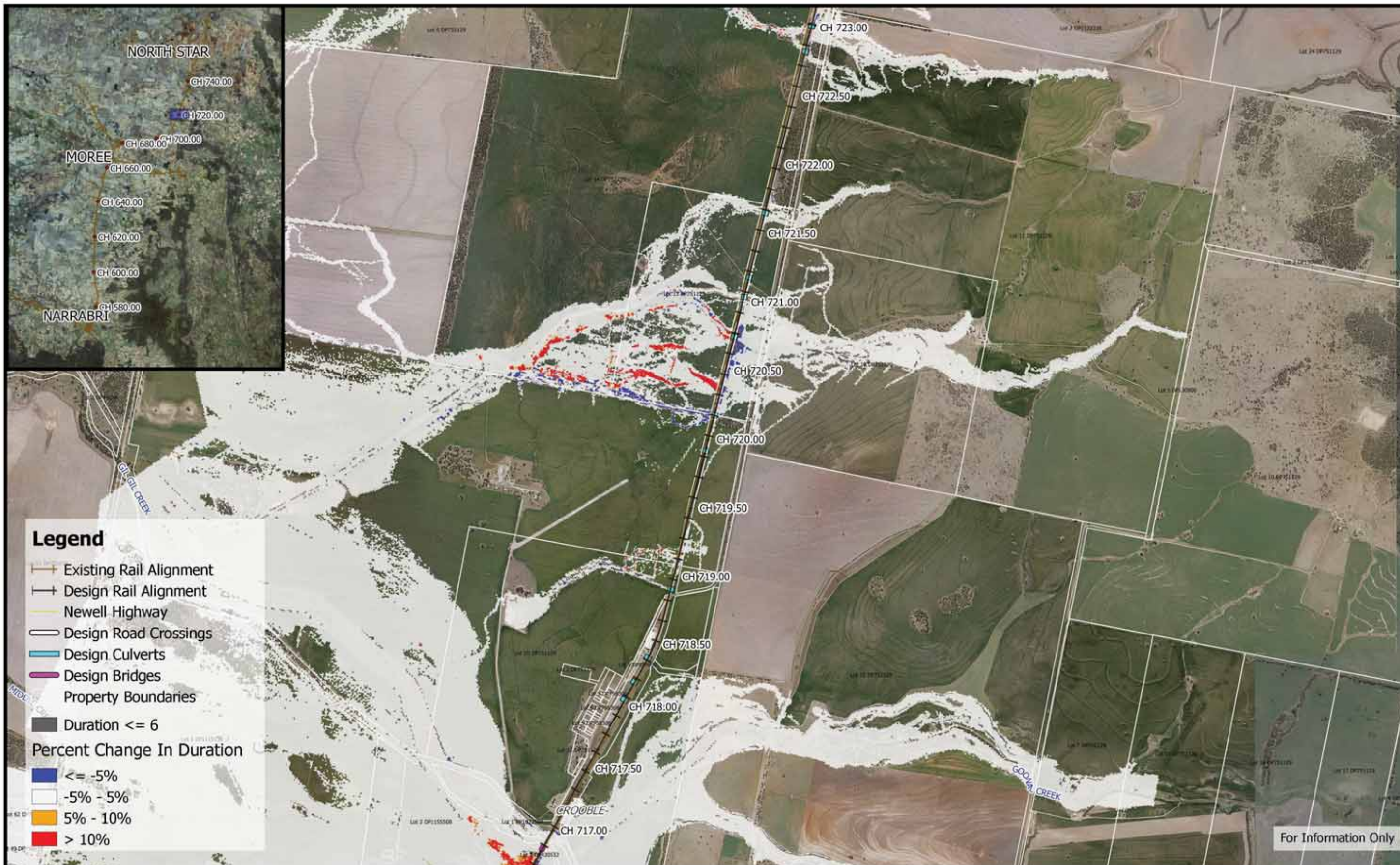






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			Rev A: For Information Only	
			Prepared By: stephensk	



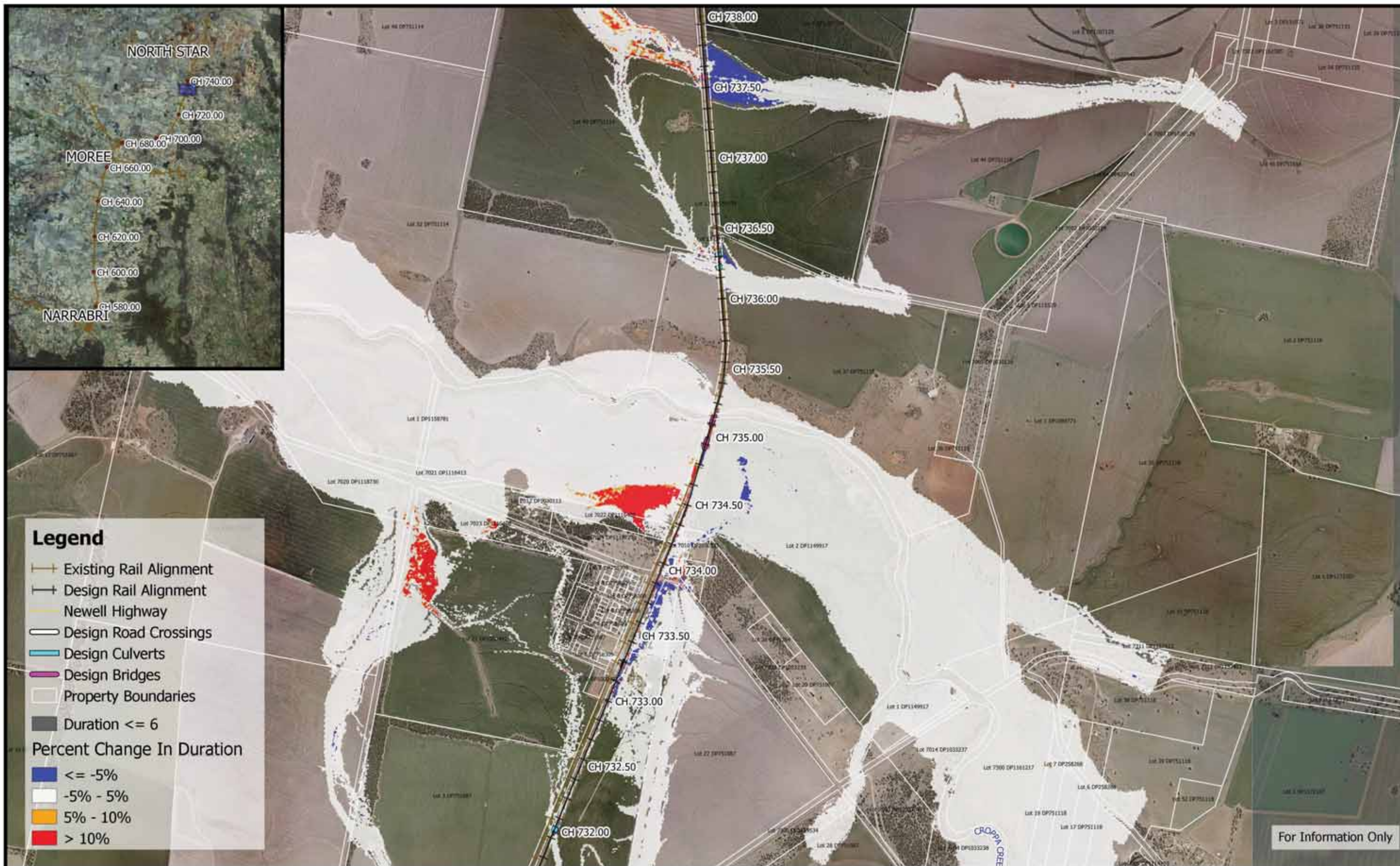






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			Rev A: For Information Only	
			Prepared By: stephensk	





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