

Appendix A

Hydrology/Hydraulics Model Layout and Catchment Maps

A1 –Hydrological Model Layout

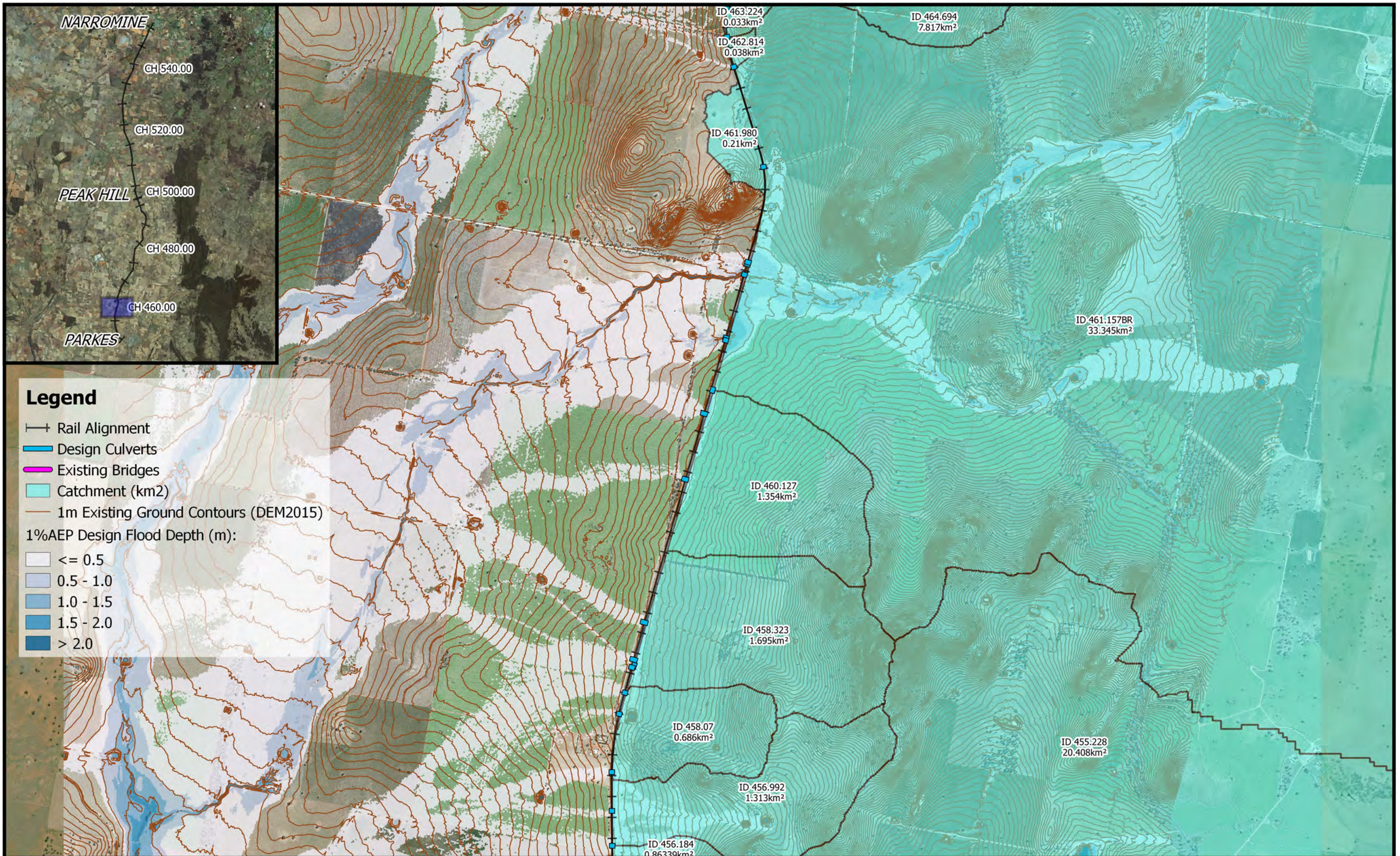
A2 –Hydraulic Model Layout

A3 – Upstream Catchment maps

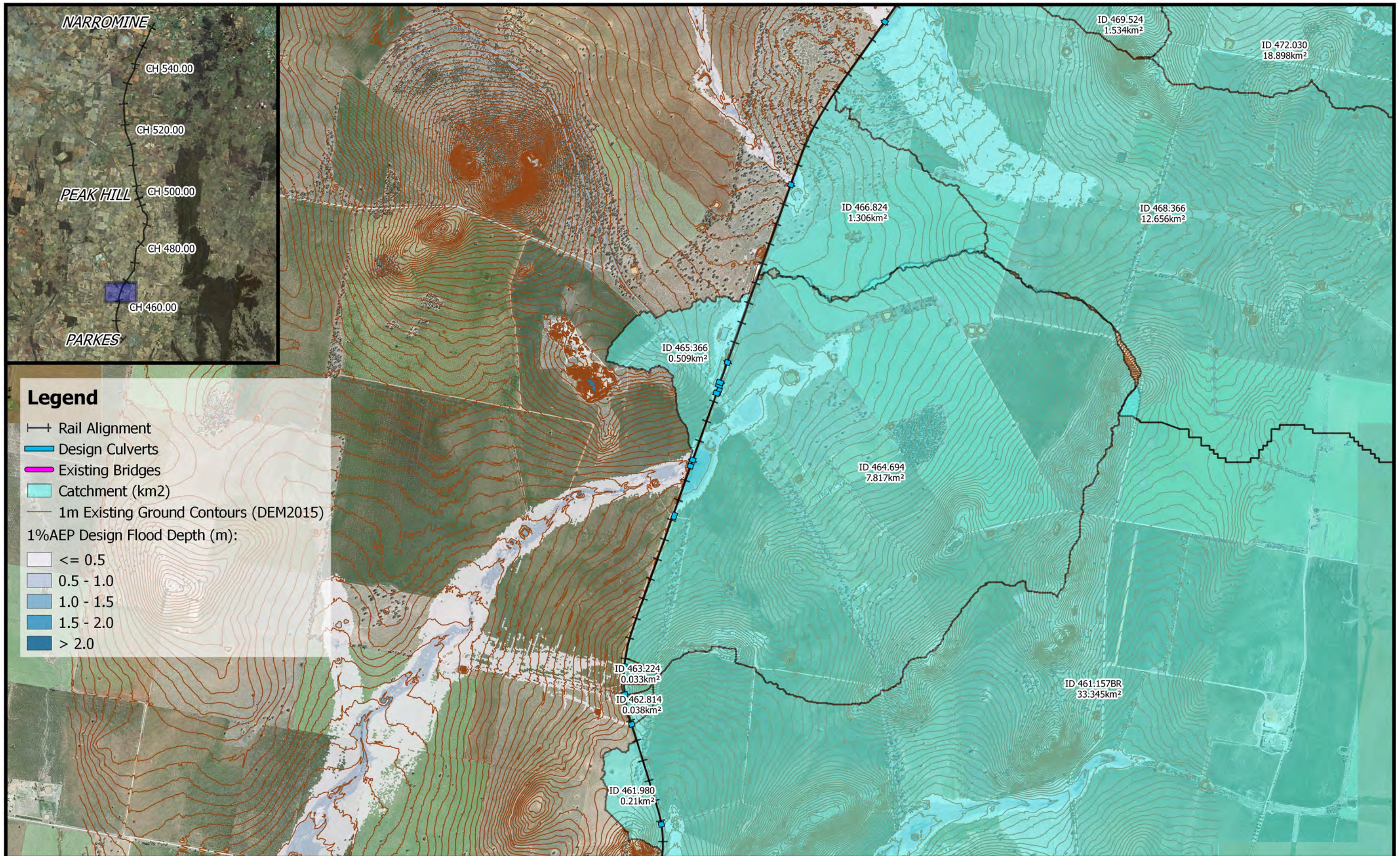




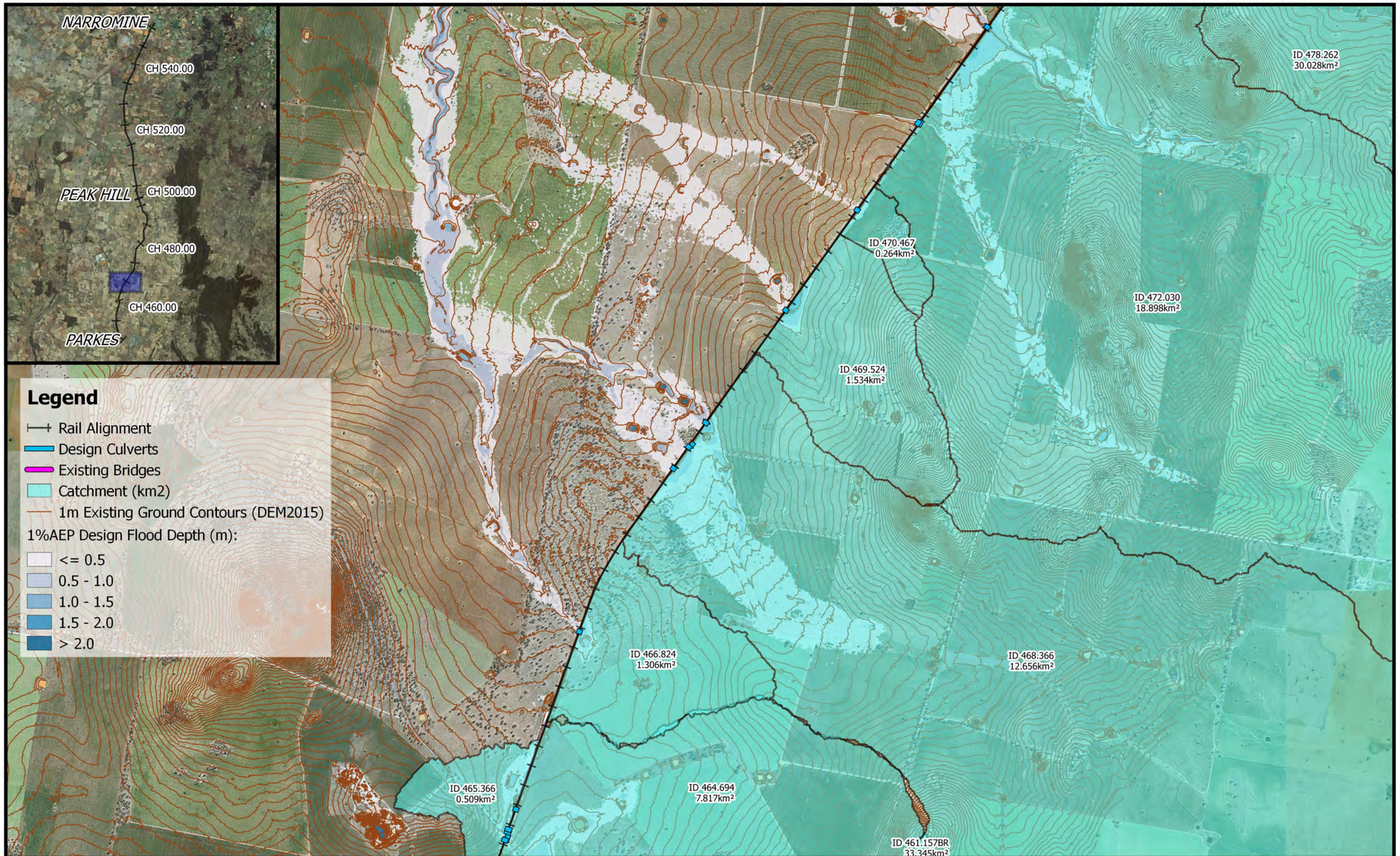
	 1:25,000 Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Date: 13/9/2018	Parkes to Narromine DD100% - Flood Overview Map Figure DES1L2 <i>Upstream Catchment Culvert Groupings - CH 455.00</i>
			Rev: A	
			Prepared By: YeohM	



	 1:25,000 Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Date: 13/9/2018	Parkes to Narromine DD100% - Flood Overview Map Figure DES1L3 <i>Upstream Catchment Culvert Groupings - CH 460.00</i>
			Rev: A	
			Prepared By: YeohM	

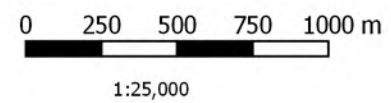


	 1:25,000 Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Date: 13/9/2018	Parkes to Narromine DD100% - Flood Overview Map
			Rev: A	
			Prepared By: YeohM	



Legend

- +— Rail Alignment
- Design Culverts
- Existing Bridges
- Catchment (km²)
- 1m Existing Ground Contours (DEM2015)
- 1%AEP Design Flood Depth (m):
- ≤ 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.0
- > 2.0



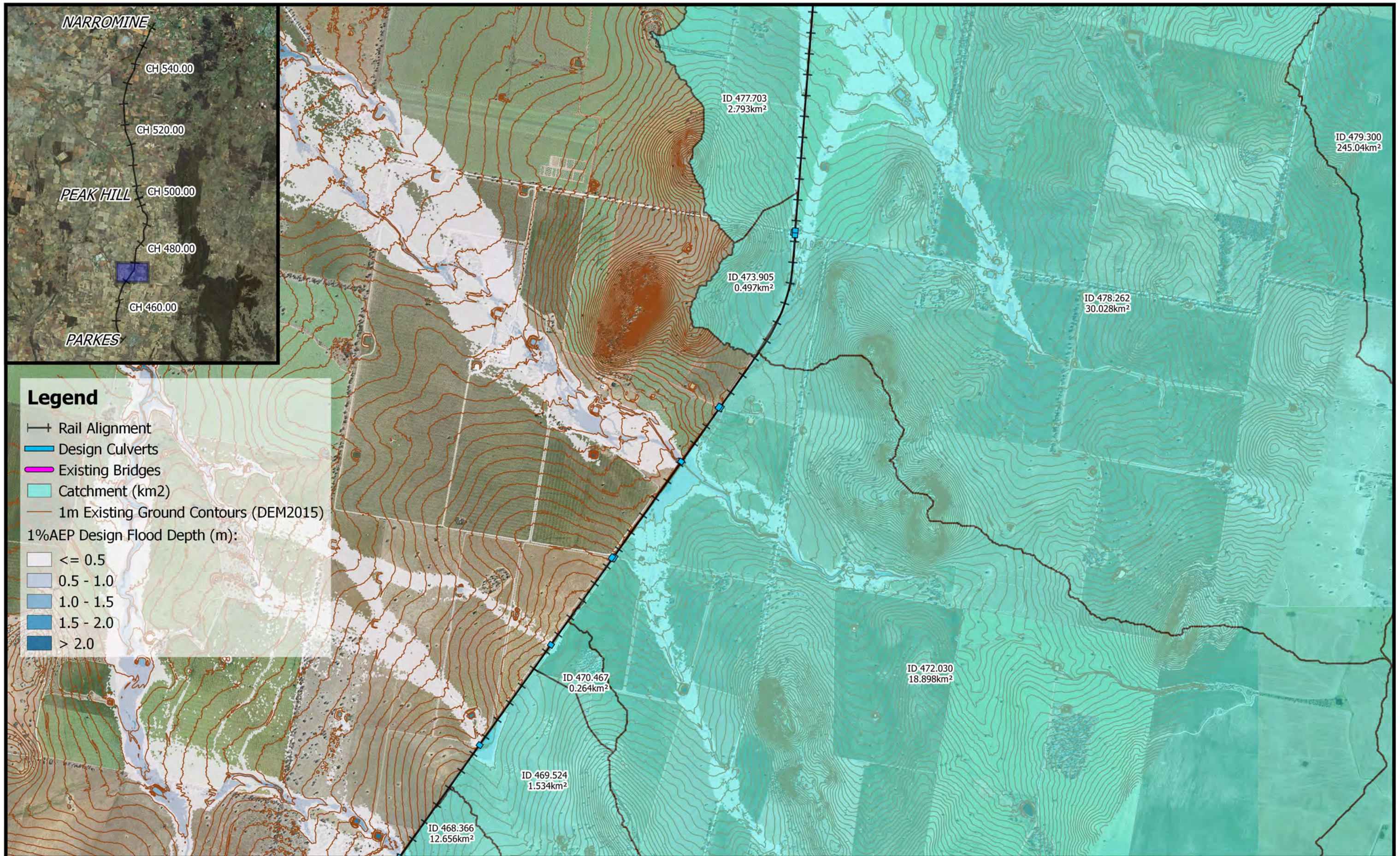
Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



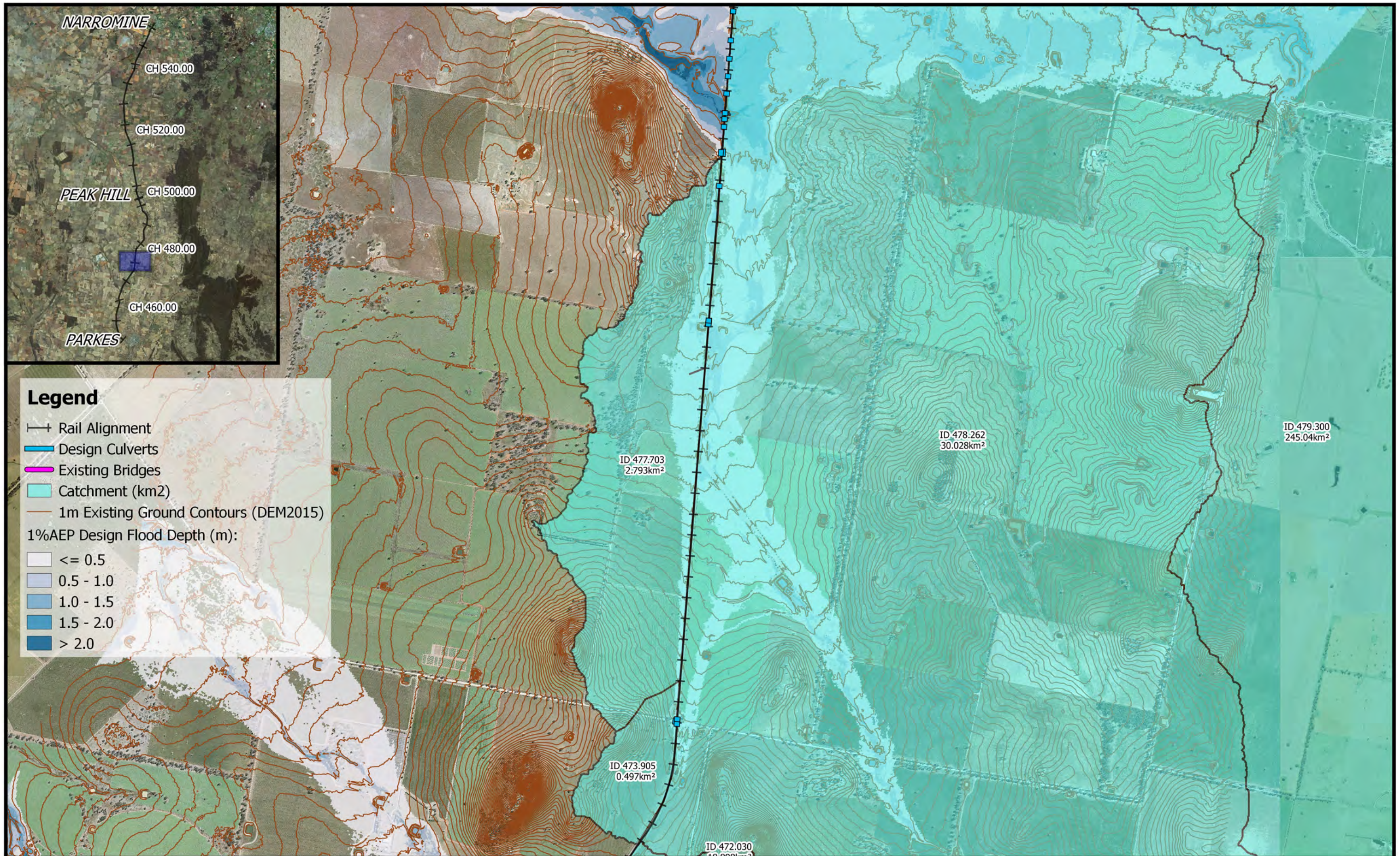
Date: 13/9/2018
Rev: A
Prepared By: YeohM

Parkes to Narromine
DD100% - Flood Overview Map

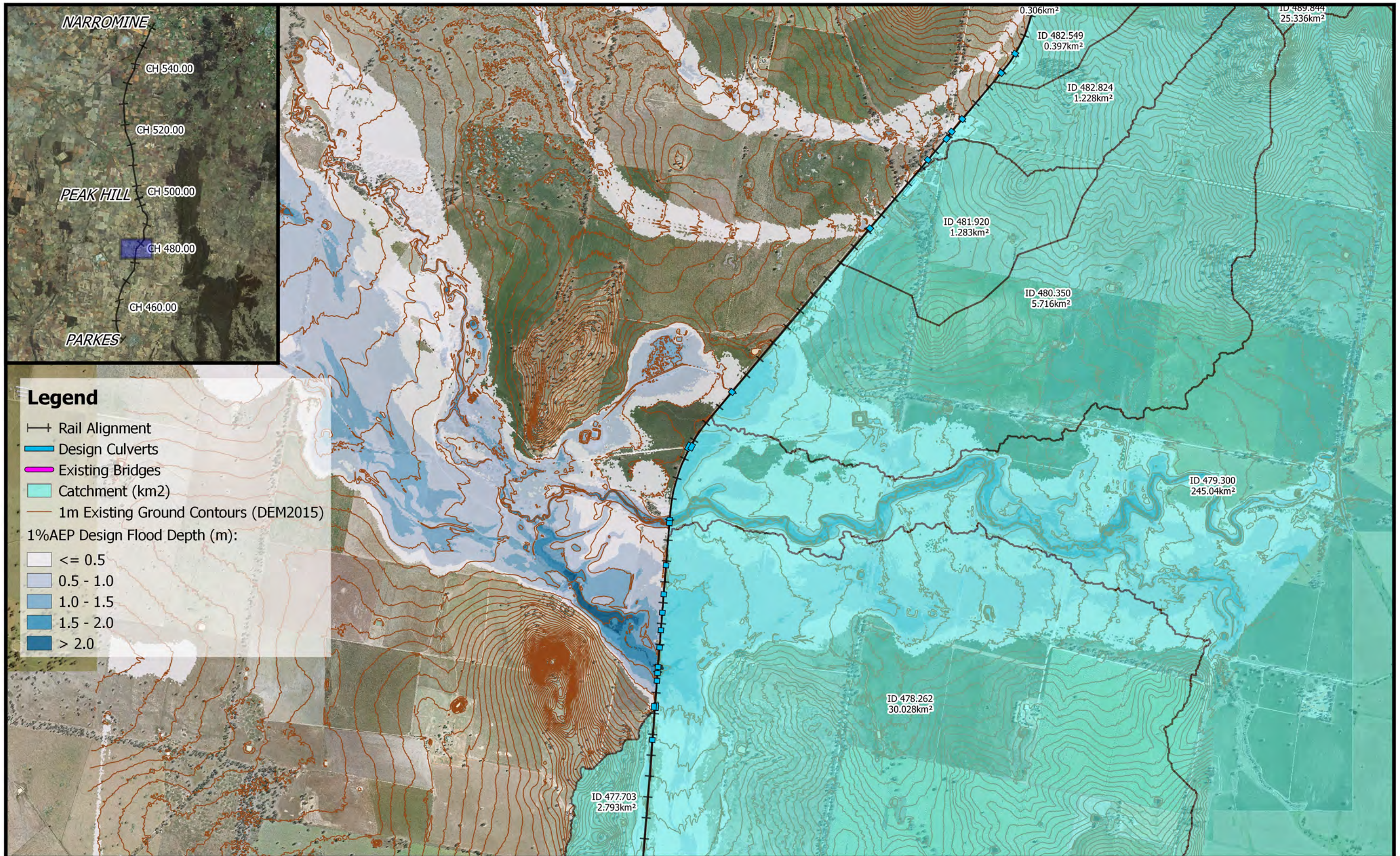
Figure DES1L5
Upstream Catchment Culvert Groupings - CH 470.00



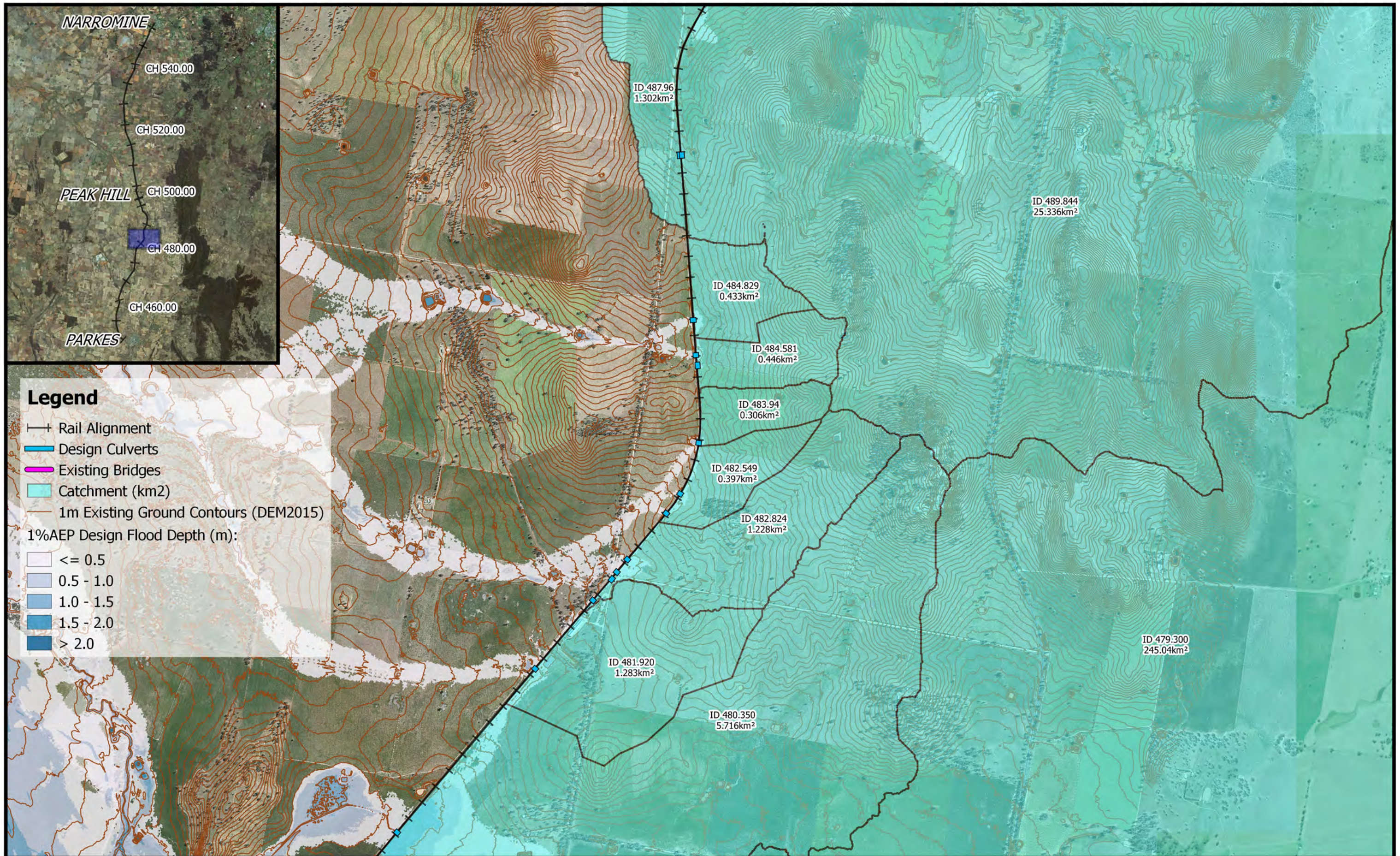
	<p>1:25,000</p>		Date: 13/9/2018	<p>Parkes to Narromine DD100% - Flood Overview Map</p> <p>Figure DES1L6 <i>Upstream Catchment Culvert Groupings - CH 472.00</i></p>
	<p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Rev: A	
	Prepared By: YeohM			



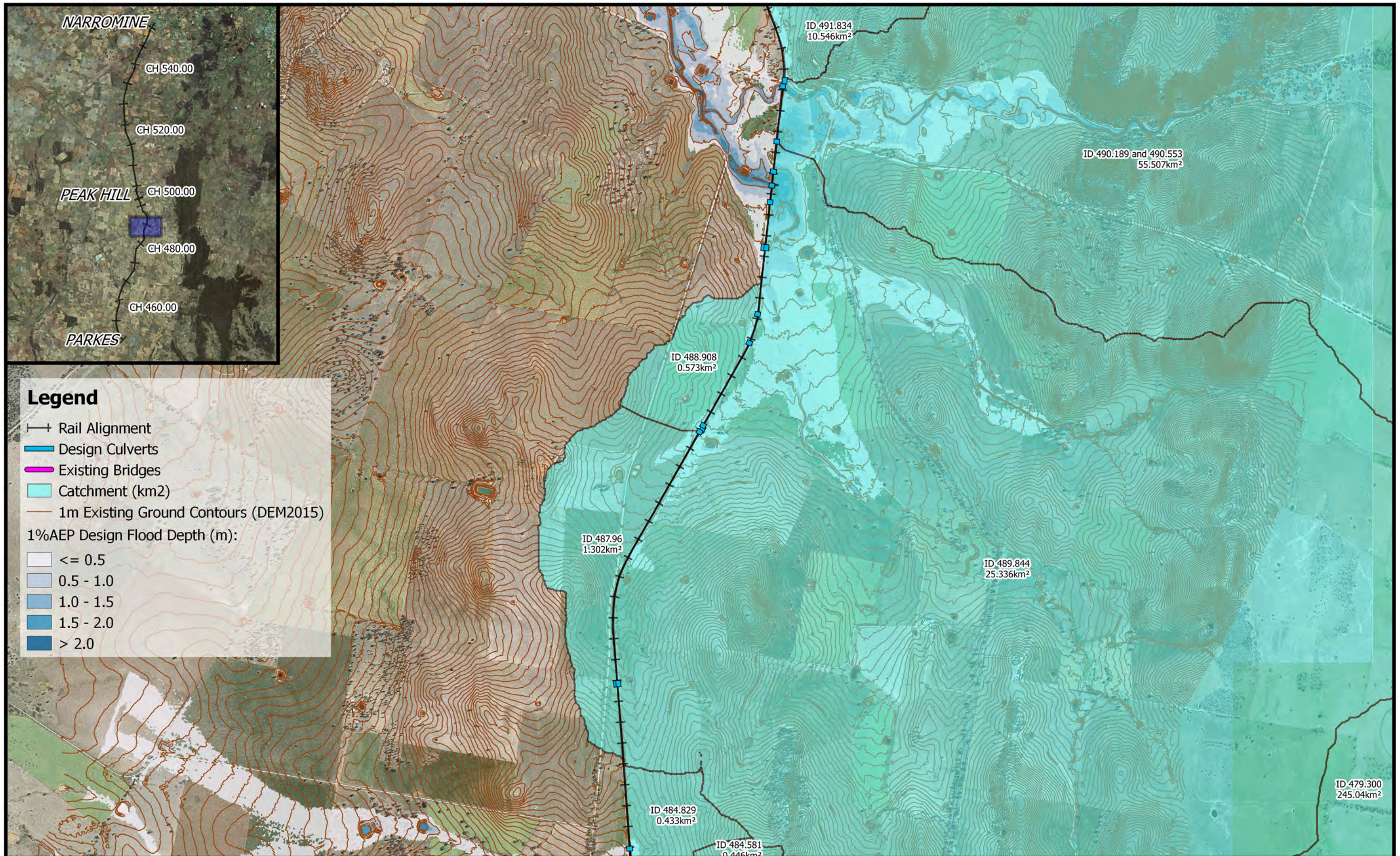
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			Rev: A	
			Prepared By: YeohM	



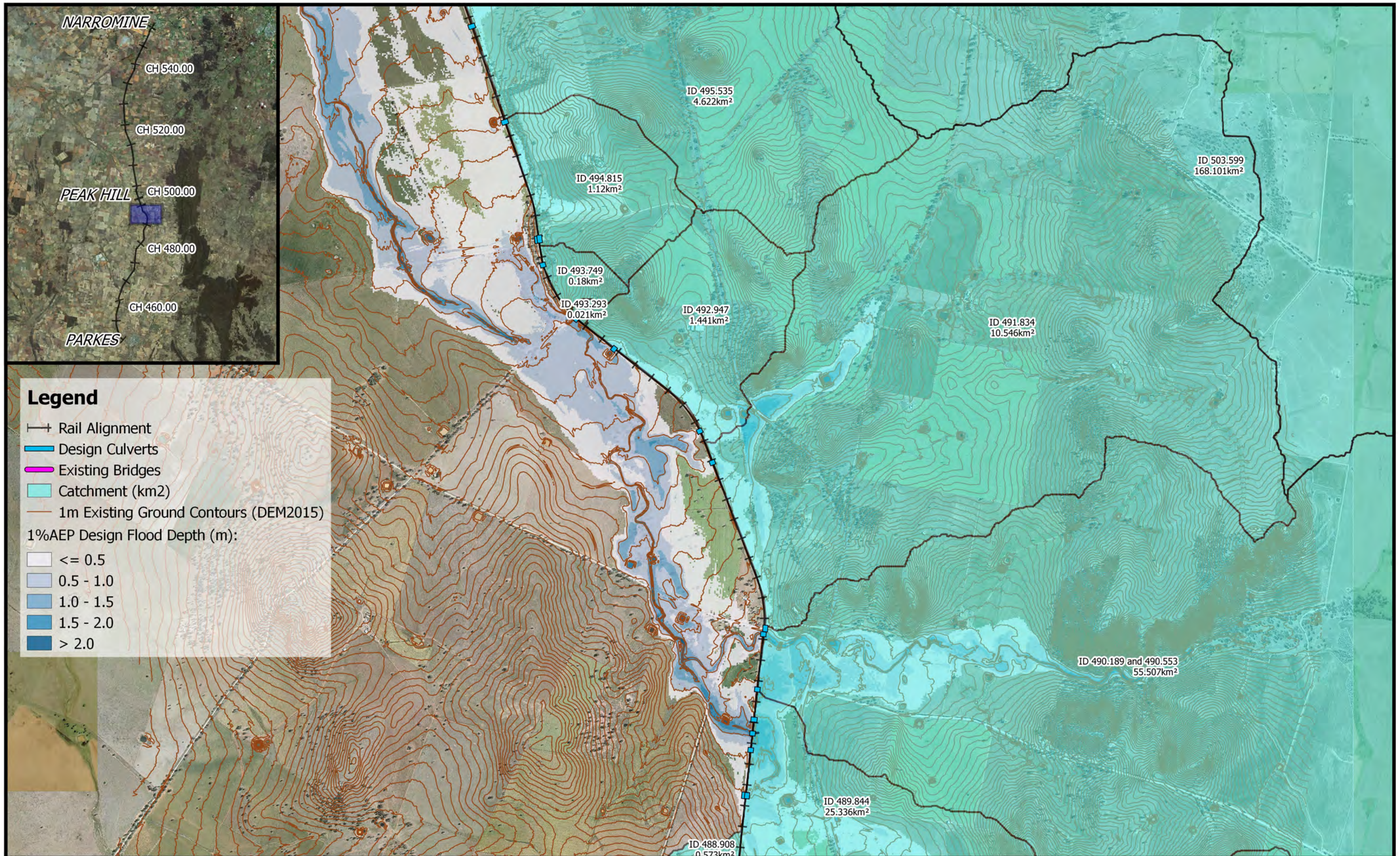
	<p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 13/9/2018	<p align="right">Parkes to Narromine DD100% - Flood Overview Map</p> <p align="right">Figure DES1L8 <i>Upstream Catchment Culvert Groupings - CH 480.00</i></p>
	Rev: A			
	Prepared By: YeohM			



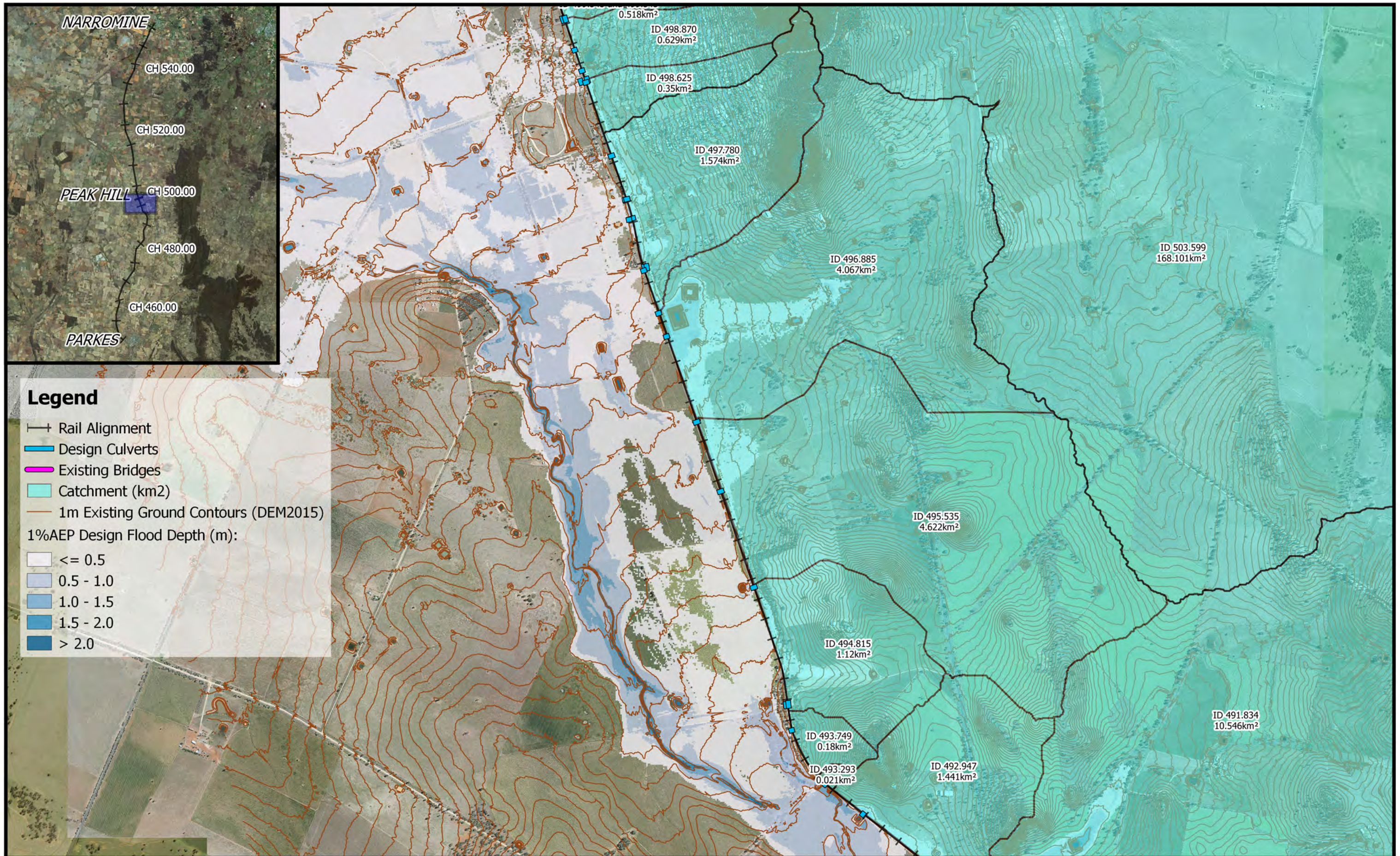
	<p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 13/9/2018	<p align="right">Parkes to Narromine DD100% - Flood Overview Map</p> <p align="right">Figure DES1L9 <i>Upstream Catchment Culvert Groupings - CH 485.00</i></p>
			Rev: A	
			Prepared By: YeohM	



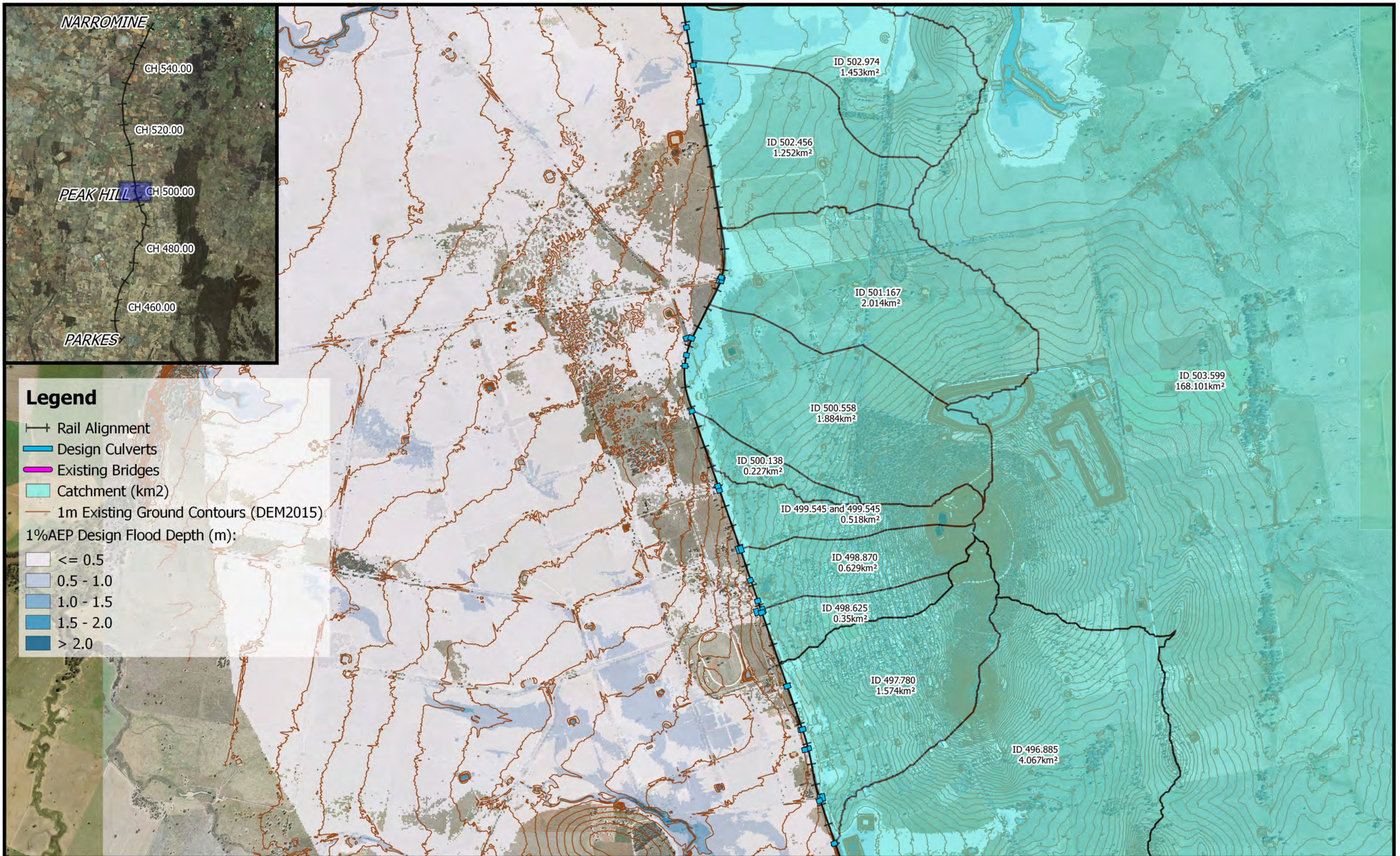
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			Rev: A	
			Prepared By: YeohM	



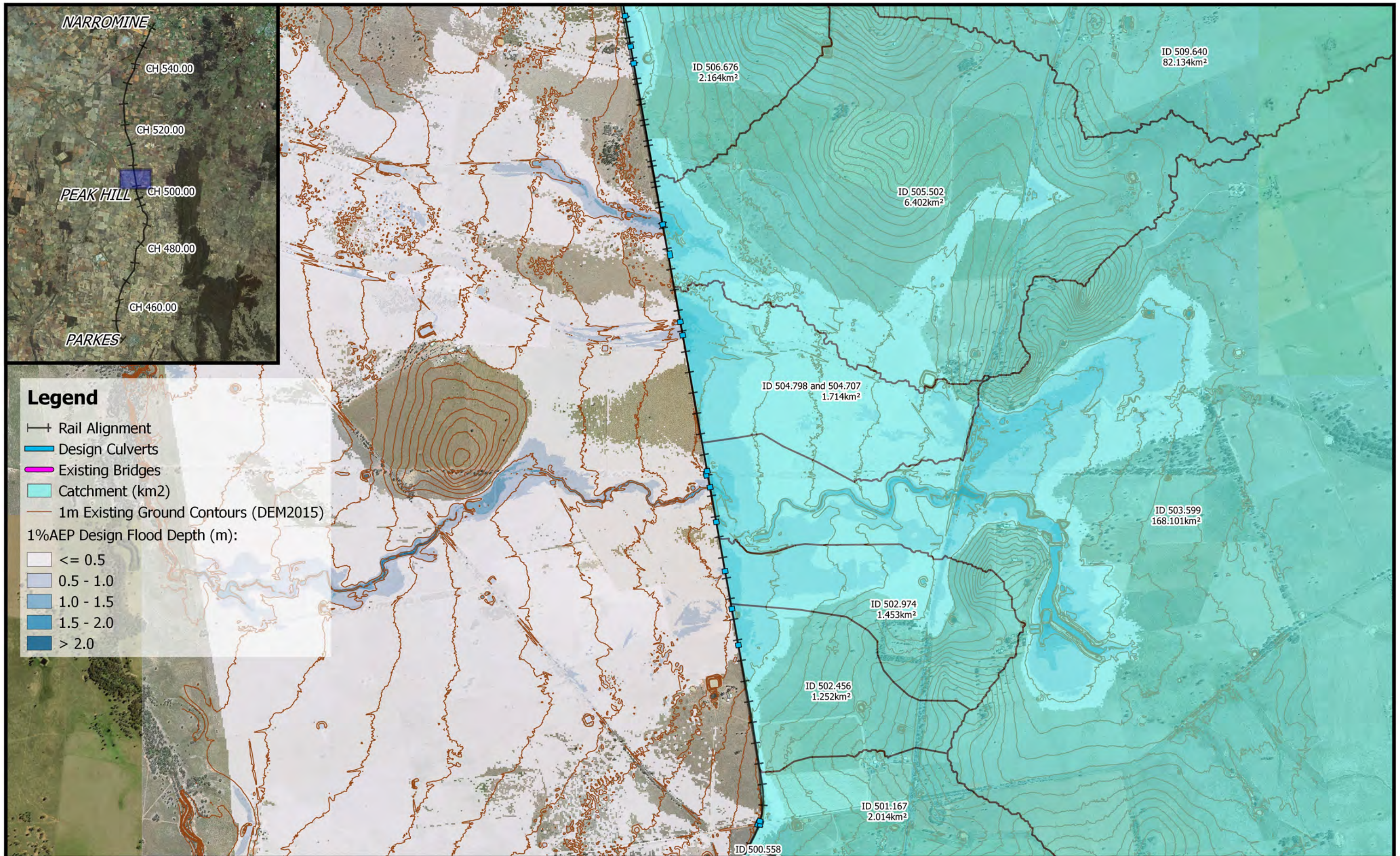
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			Rev: A	
			Prepared By: YeohM	


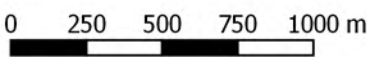



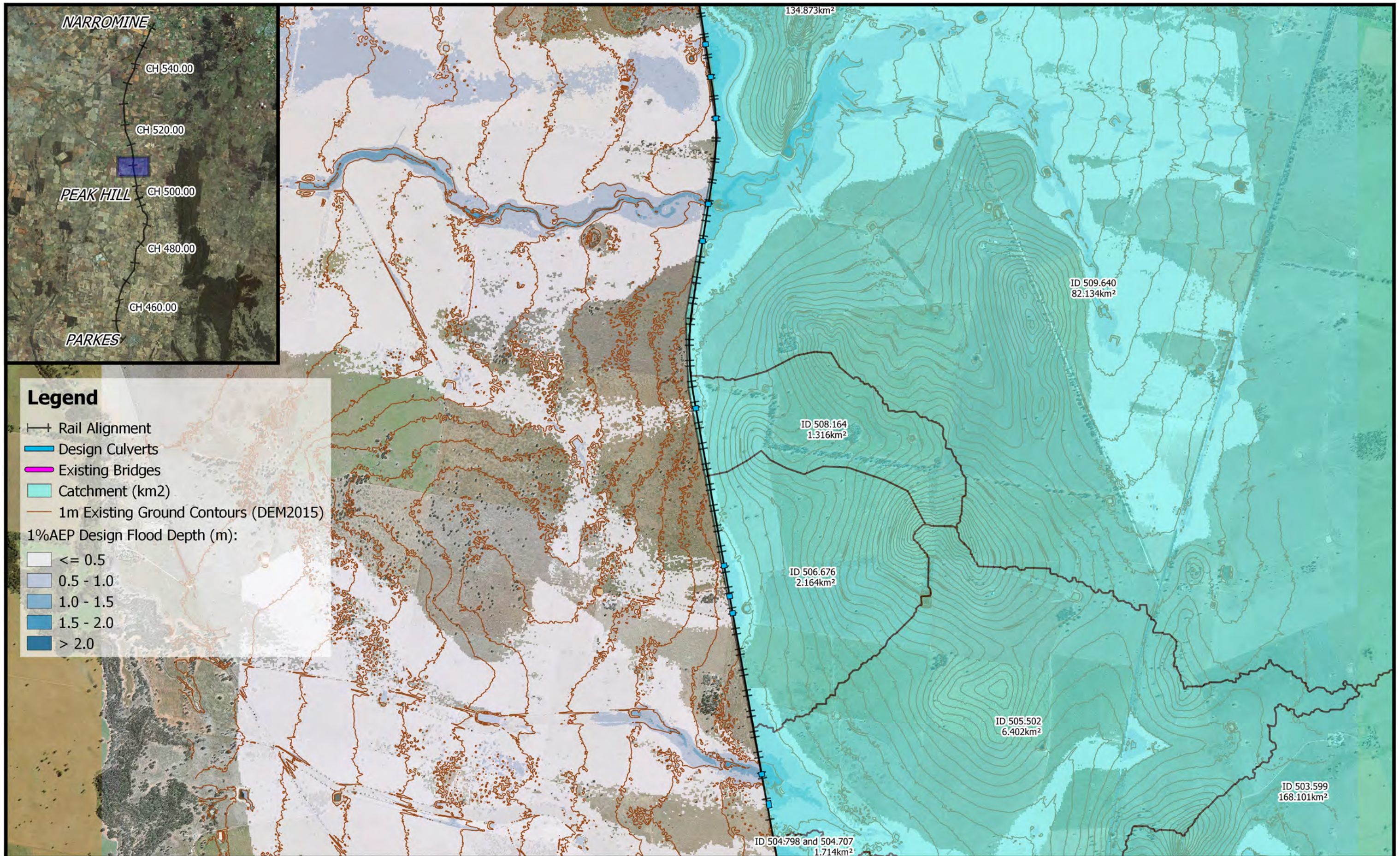
	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 13/9/2018	<p>Parkes to Narromine DD100% - Flood Overview Map</p> <p>Figure DES1L12 <i>Upstream Catchment Culvert Groupings - CH 495.00</i></p>
			Rev: A	
			Prepared By: YeohM	



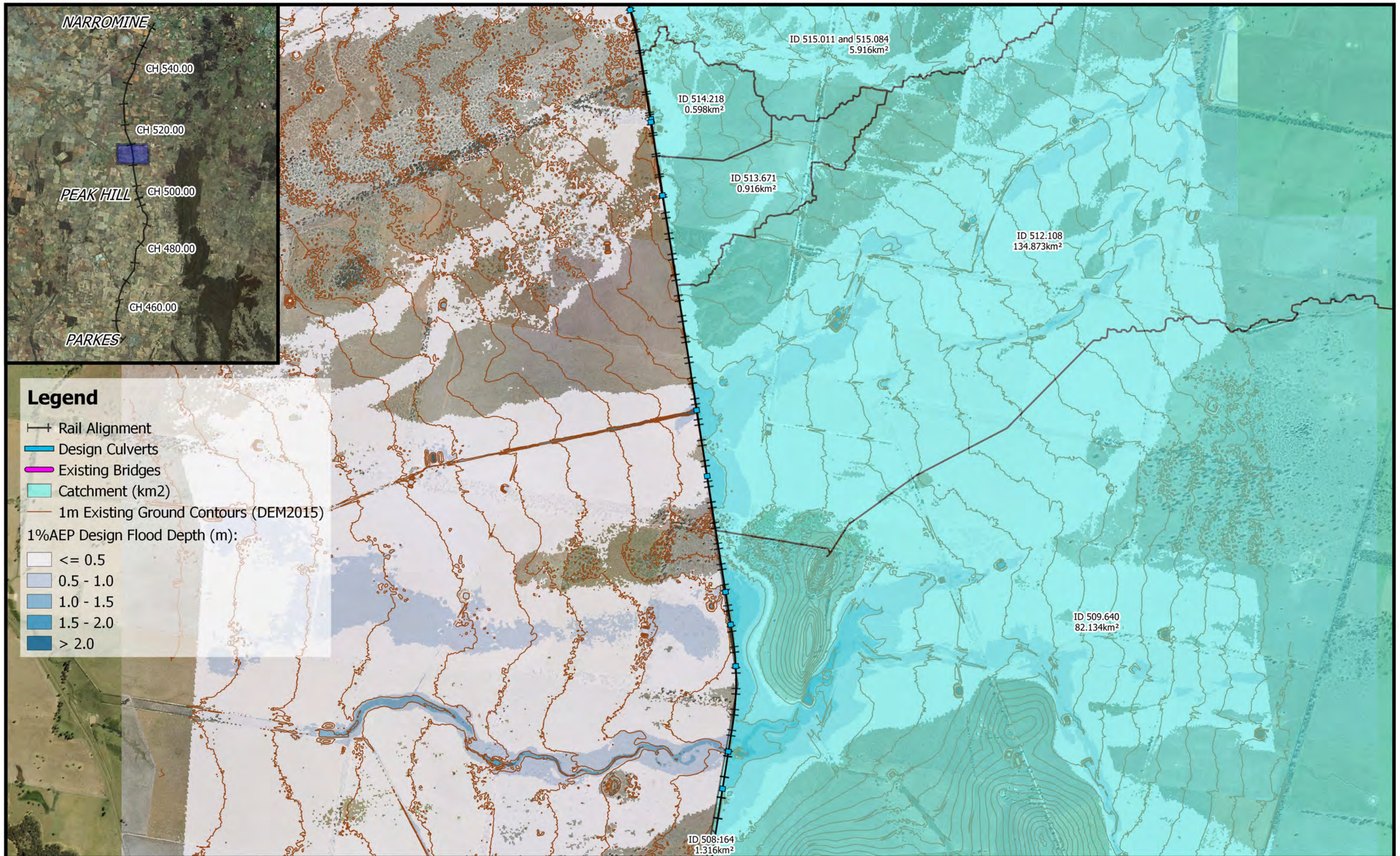
	<p>1:25,000</p>		Date: 13/9/2018	<p>Parkes to Narromine DD100% - Flood Overview Map</p> <p>Figure DES1L13 <i>Upstream Catchment Culvert Groupings - CH 500.00</i></p>
	<p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		<p>Rev: A</p>	
	<p>Prepared By: YeohM</p>			



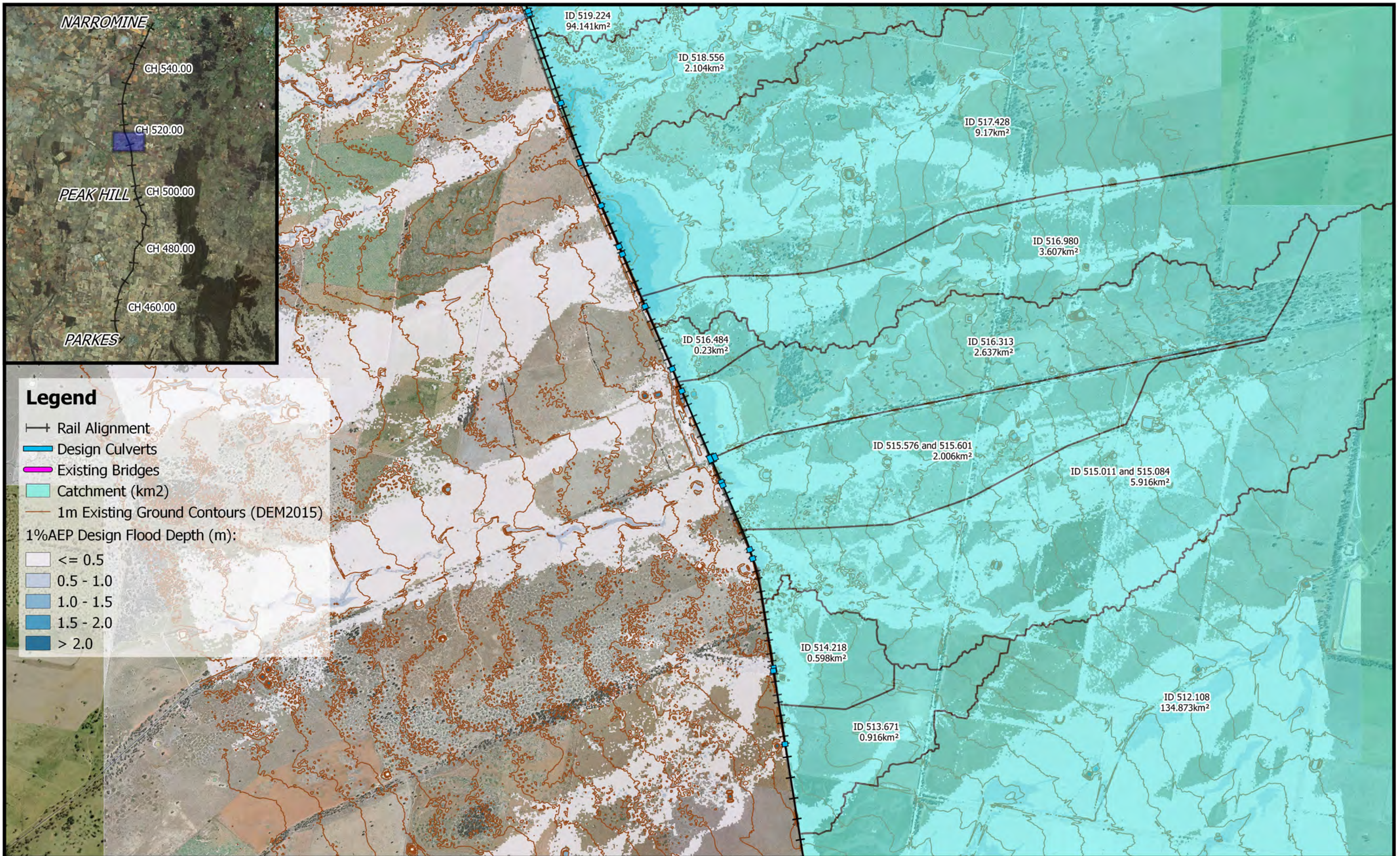
	 1:25,000		Date: 13/9/2018	Parkes to Narromine DD100% - Flood Overview Map Figure DES1L14 <i>Upstream Catchment Culvert Groupings - CH 505.00</i>
	Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3		Rev: A	
	Prepared By: YeohM			



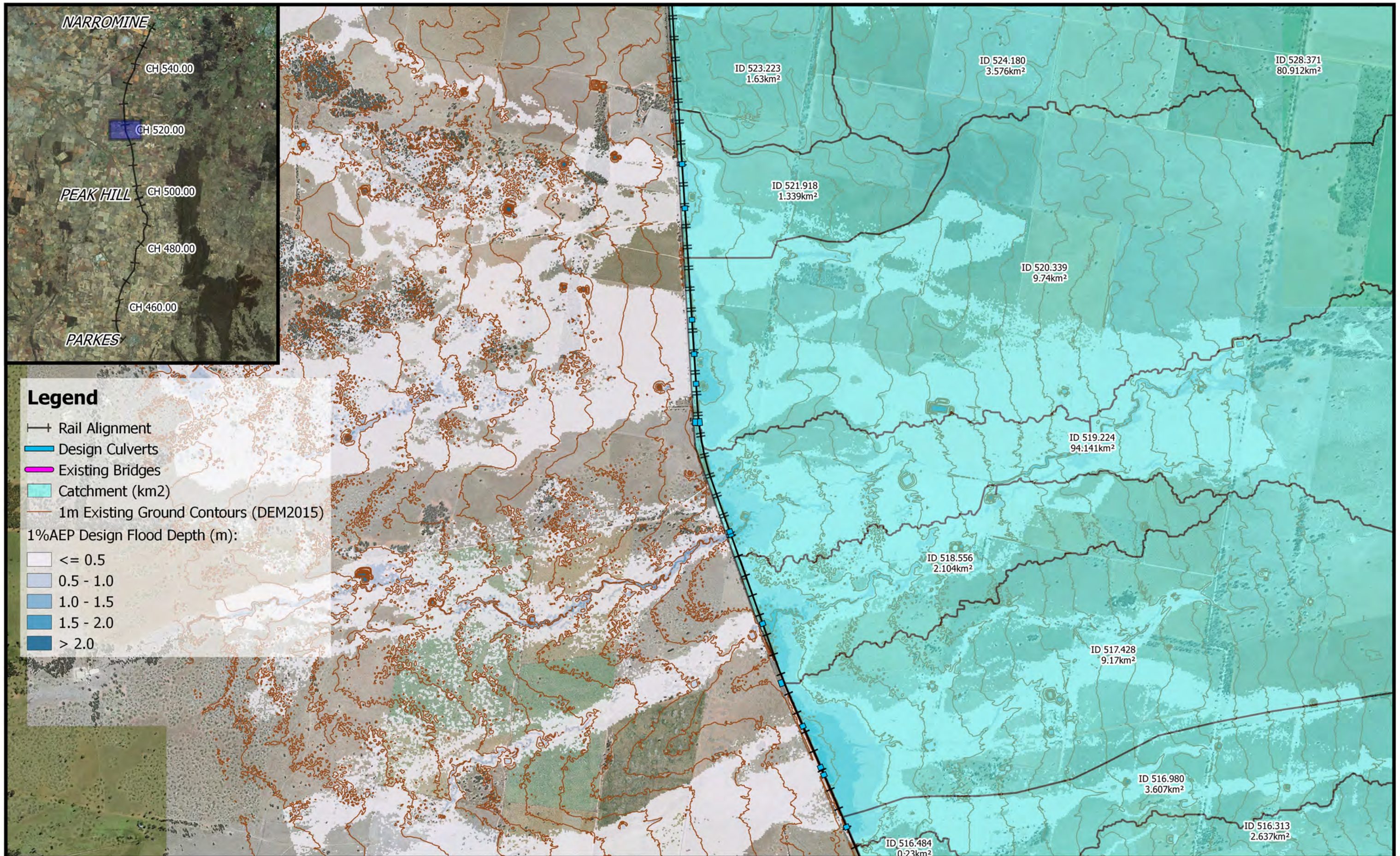
	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 13/9/2018	<p>Parkes to Narromine DD100% - Flood Overview Map</p> <p>Figure DES1L15 Upstream Catchment Culvert Groupings - CH 510.00</p>
			Rev: A	
			Prepared By: YeohM	



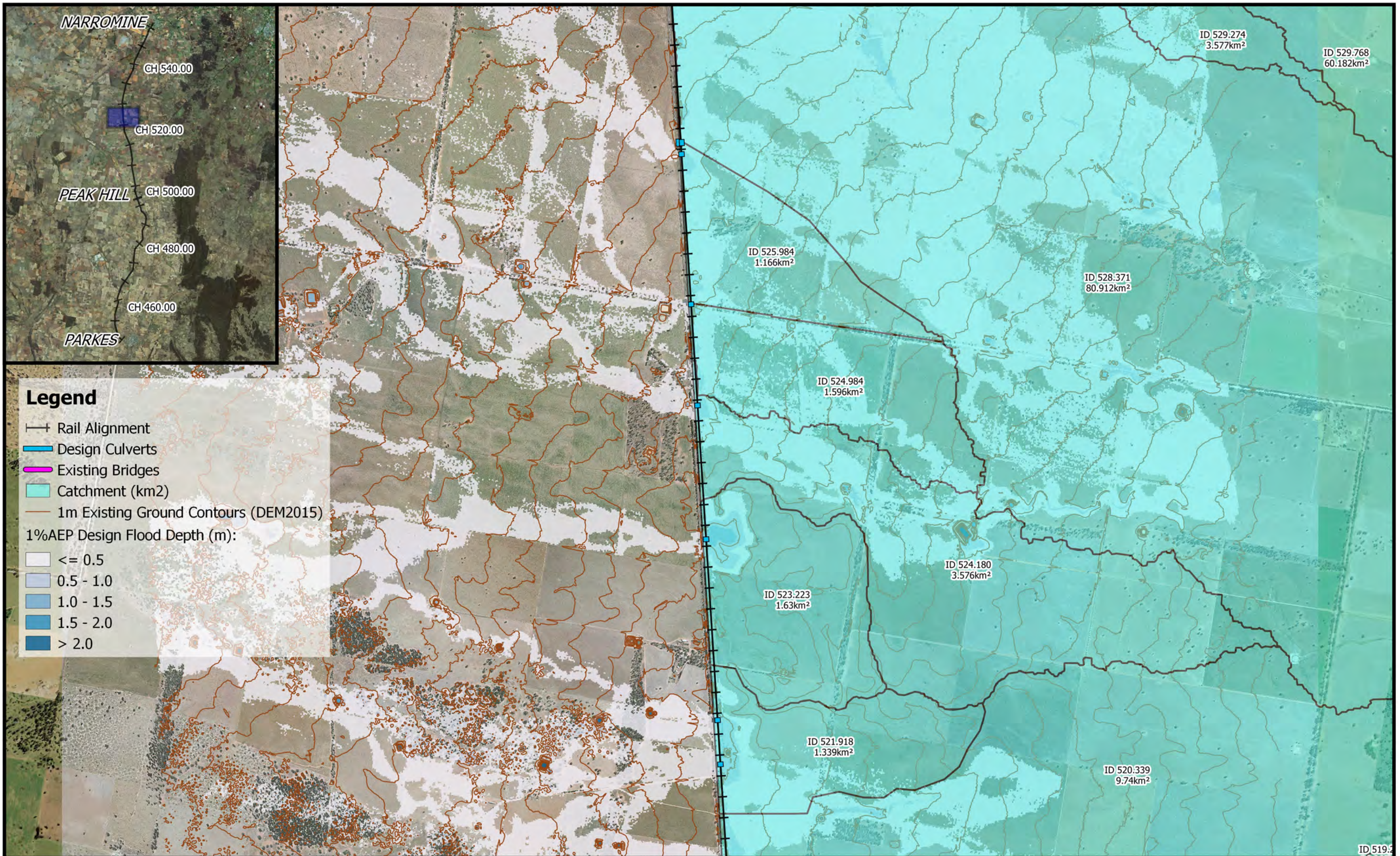
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			Rev: A	
			Prepared By: YeohM	



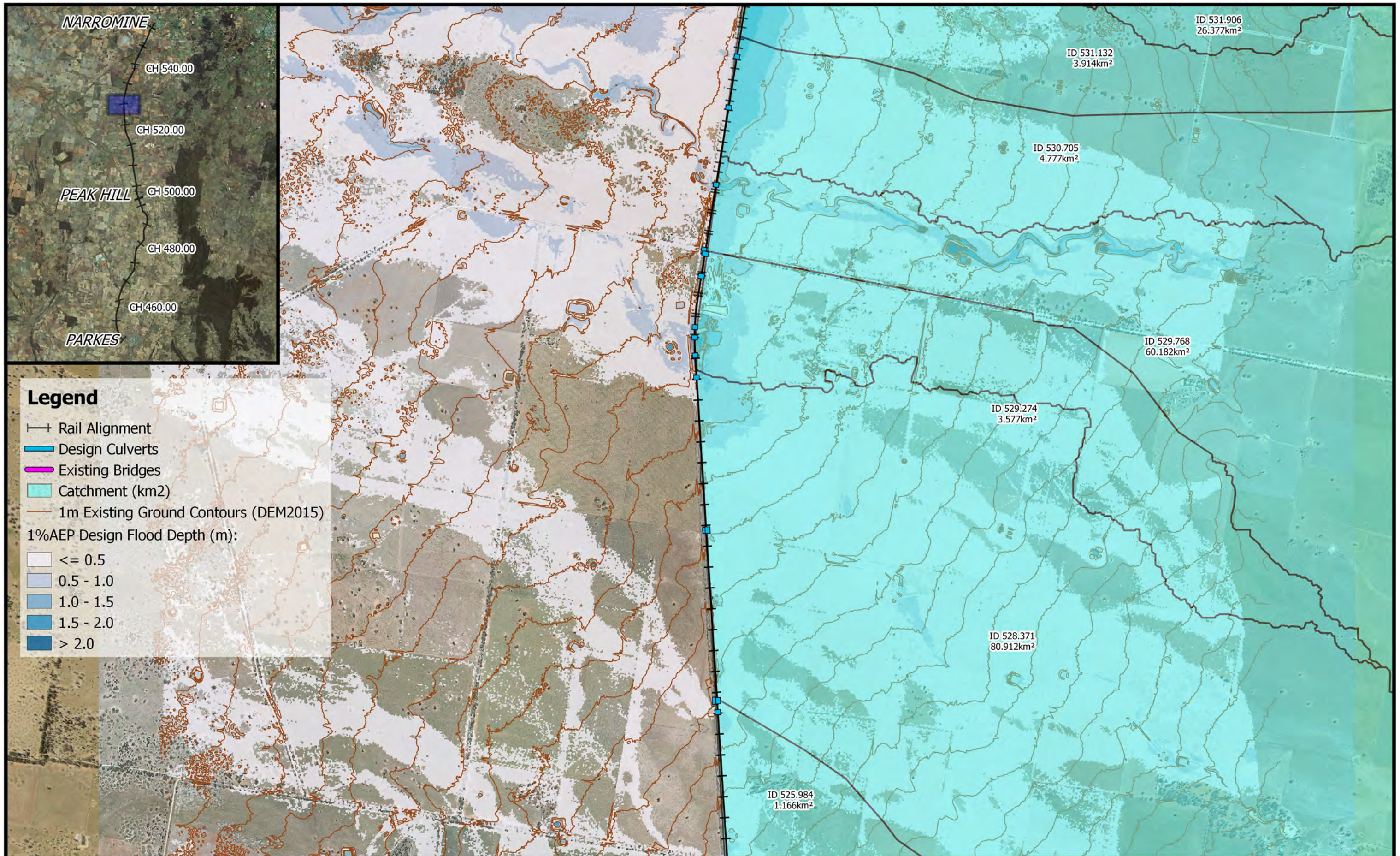
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			Rev: A	
			Prepared By: YeohM	



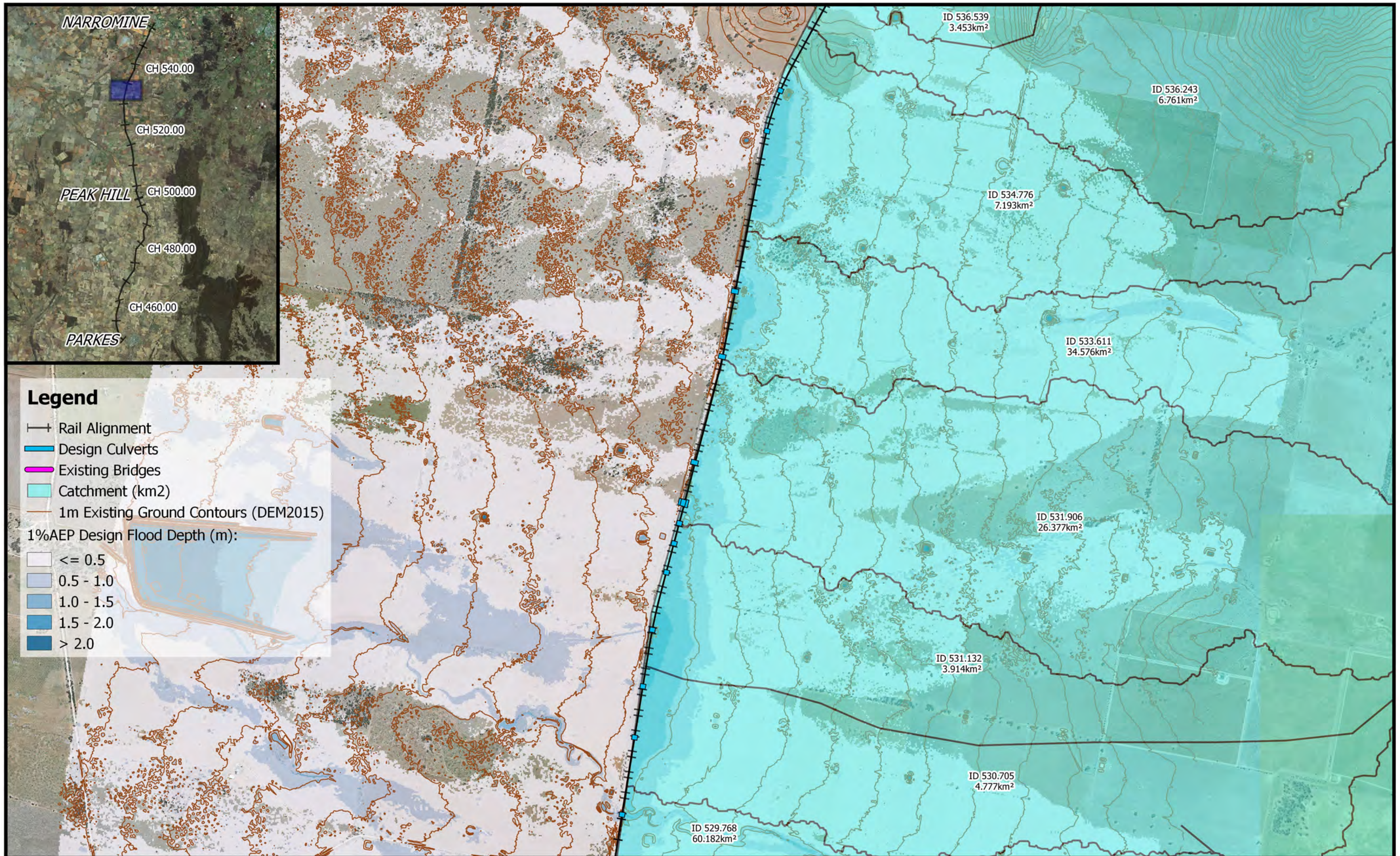
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			Rev: A	
			Prepared By: YeohM	



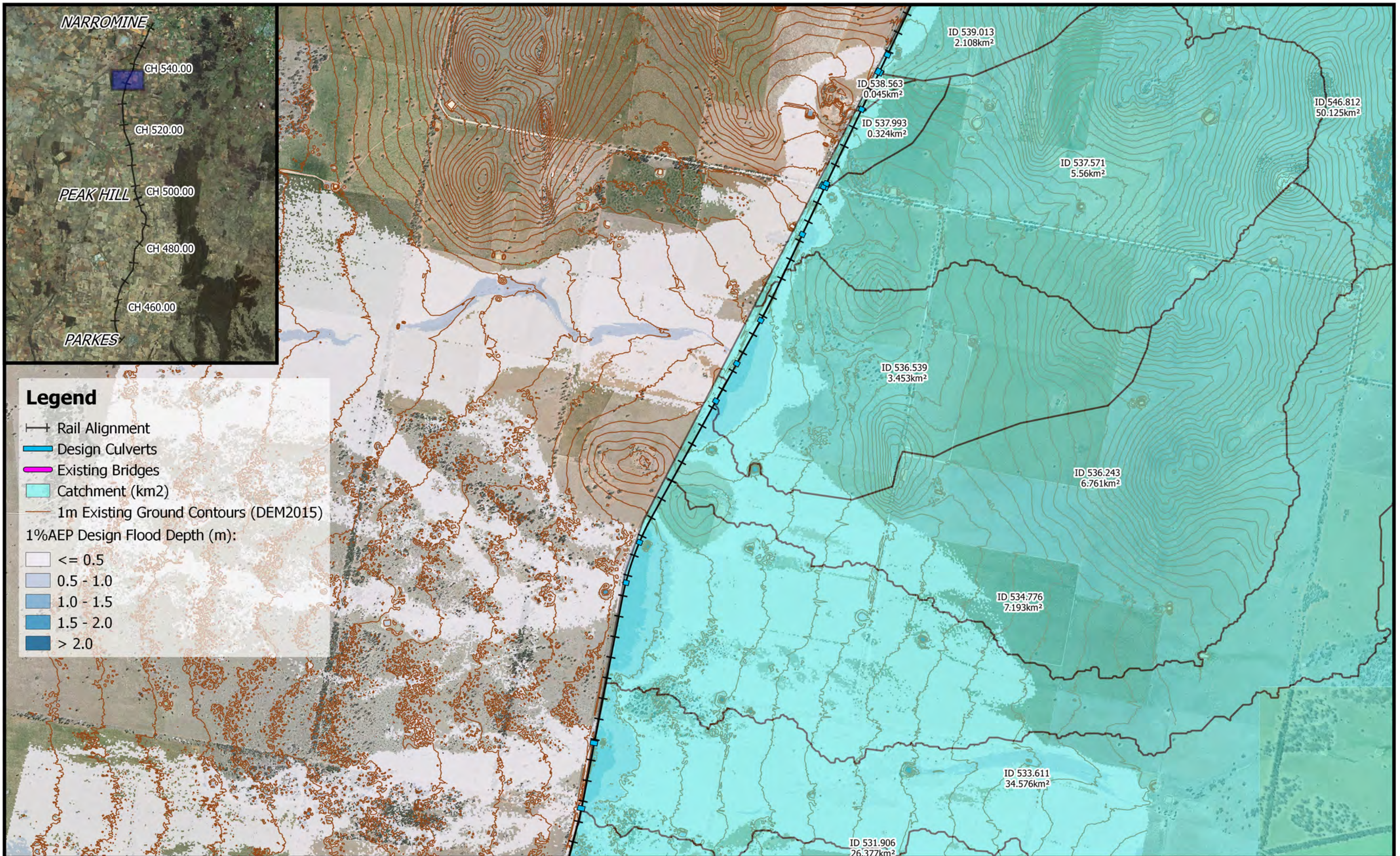
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	Rev: A			
	Prepared By: YeohM			



	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 13/9/2018	<p>Parkes to Narromine DD100% - Flood Overview Map</p> <p>Figure DES1L20 <i>Upstream Catchment Culvert Groupings - CH 530.00</i></p>
			Rev: A	
			Prepared By: YeohM	

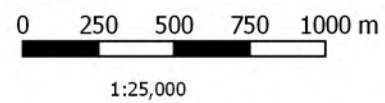


	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 13/9/2018	<p>Parkes to Narromine DD100% - Flood Overview Map</p> <p>Figure DES1L21 <i>Upstream Catchment Culvert Groupings - CH 533.00</i></p>
			Rev: A	
			Prepared By: YeohM	



Legend

- +— Rail Alignment
 - Design Culverts
 - Existing Bridges
 - Catchment (km²)
 - 1m Existing Ground Contours (DEM2015)
- 1%AEP Design Flood Depth (m):
- ≤ 0.5
 - 0.5 - 1.0
 - 1.0 - 1.5
 - 1.5 - 2.0
 - > 2.0



Coordinate system: GDA 1994 MGA Zone 55
Scale ratio correct when printed at A3



Date: 13/9/2018

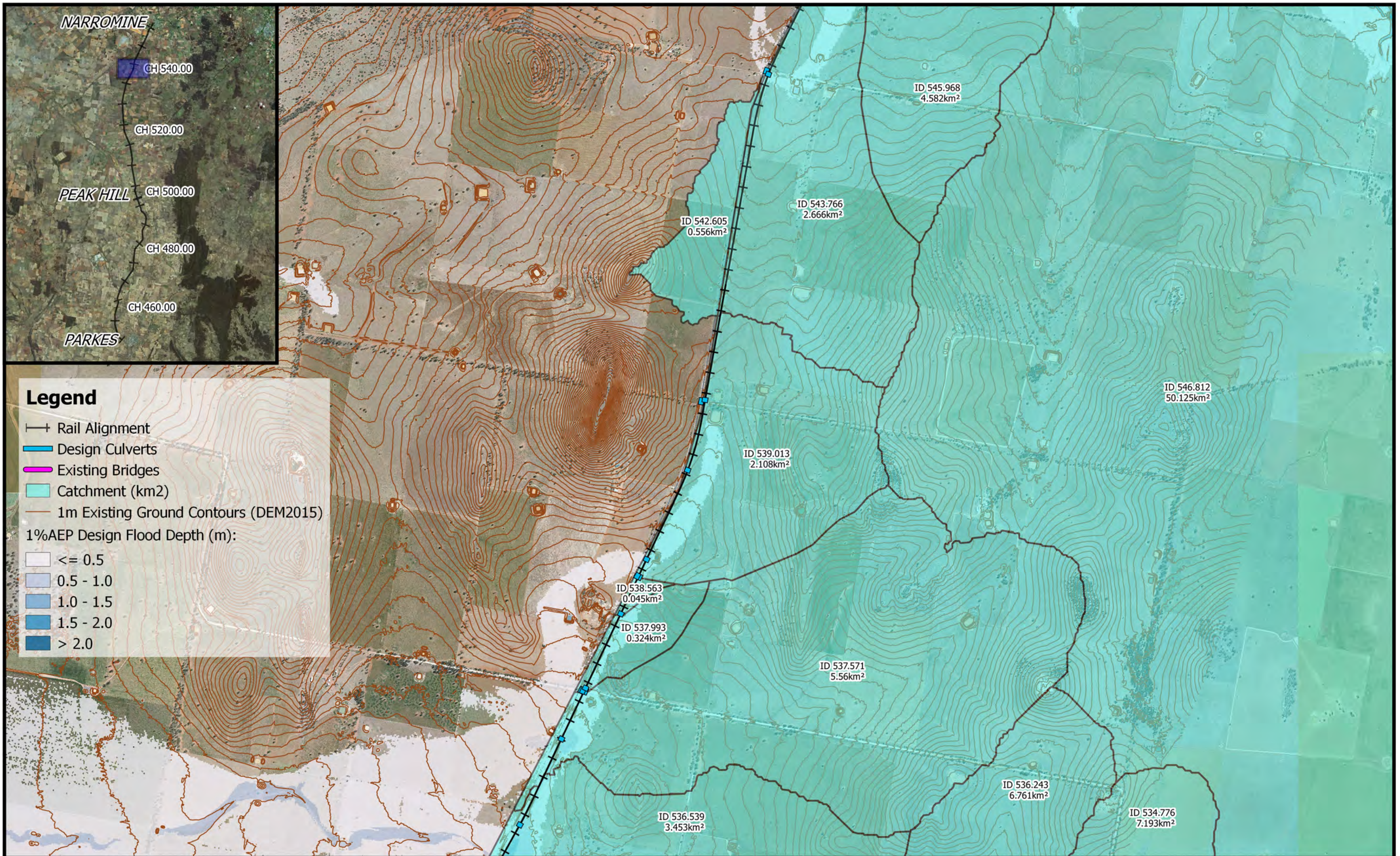
Rev: A

Prepared By: YeohM

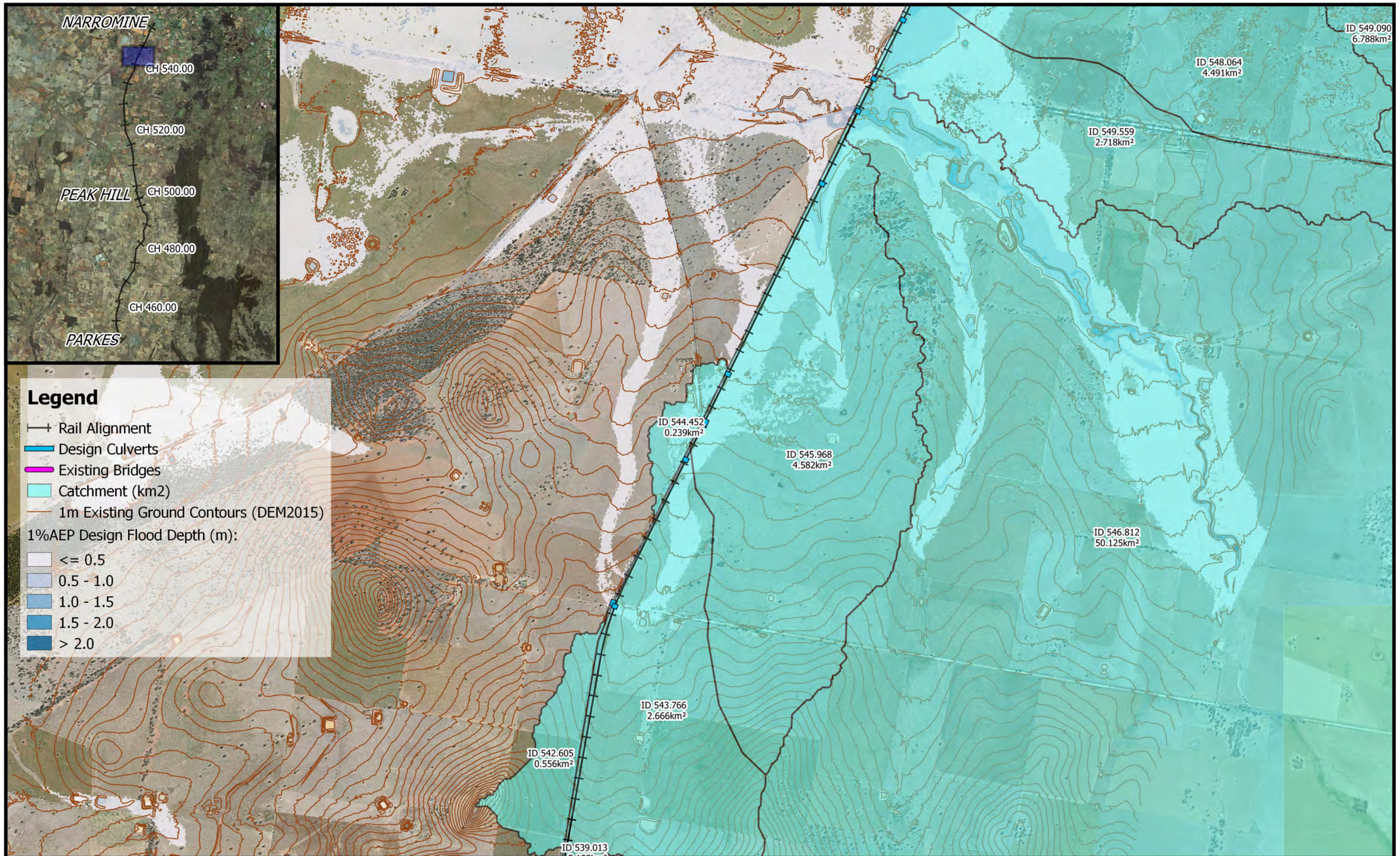
Parkes to Narromine
DD100% - Flood Overview Map

Figure DES1L22

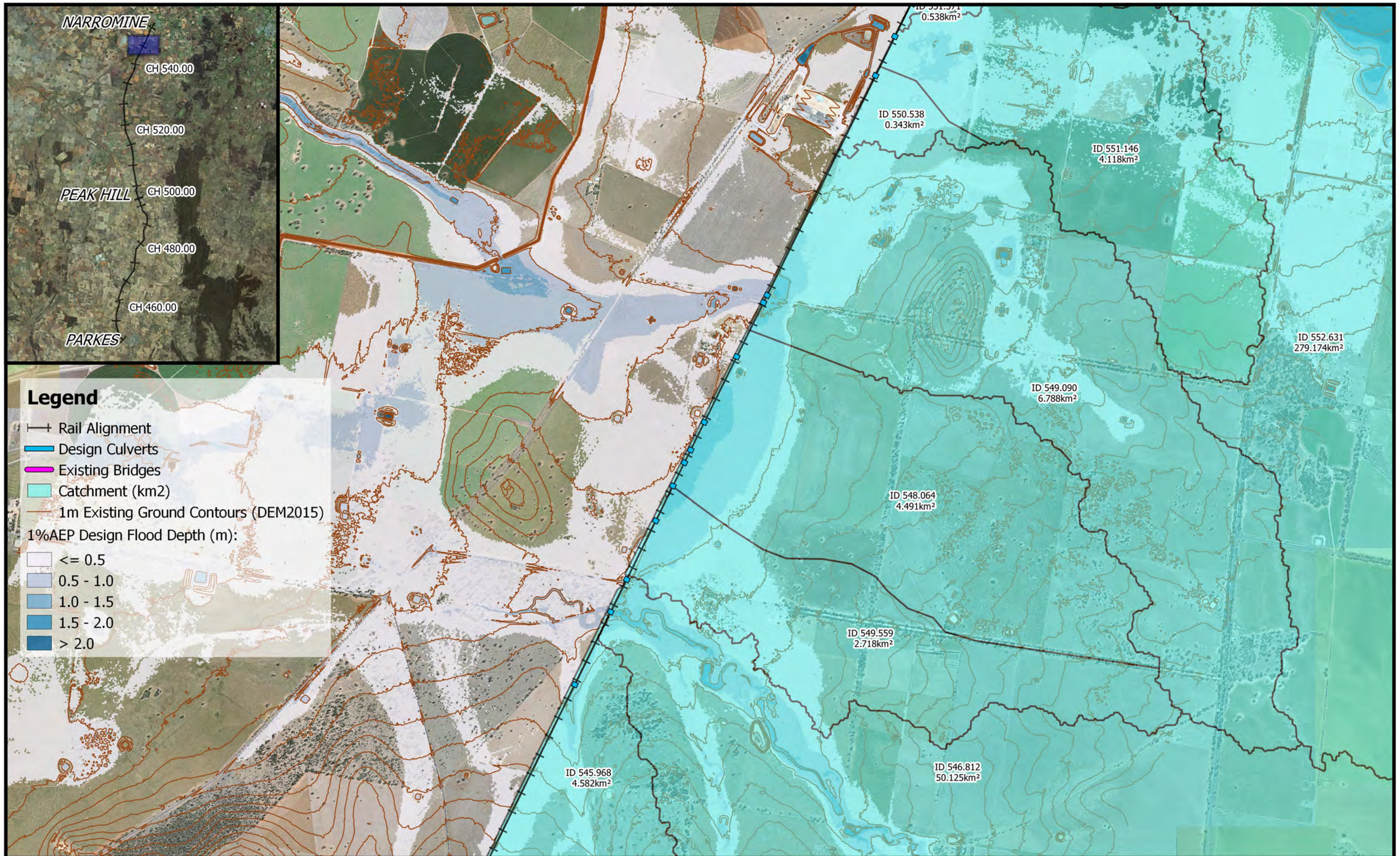
Upstream Catchment Culvert Groupings - CH 535.00



	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 13/9/2018	<p>Parkes to Narromine DD100% - Flood Overview Map</p> <p>Figure DES1L23 <i>Upstream Catchment Culvert Groupings - CH 540.00</i></p>
			Rev: A	
			Prepared By: YeohM	



	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 13/9/2018	<p>Parkes to Narromine DD100% - Flood Overview Map</p> <p>Figure DES1L24 <i>Upstream Catchment Culvert Groupings - CH 545.00</i></p>
			Rev: A	
			Prepared By: YeohM	



	<p>0 250 500 750 1000 m</p> <p>1:25,000</p> <p>Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3</p>		Date: 13/9/2018	<p>Parkes to Narromine DD100% - Flood Overview Map</p> <p>Figure DES1L25 <i>Upstream Catchment Culvert Groupings - CH 550.00</i></p>
			Rev: A	
			Prepared By: YeohM	