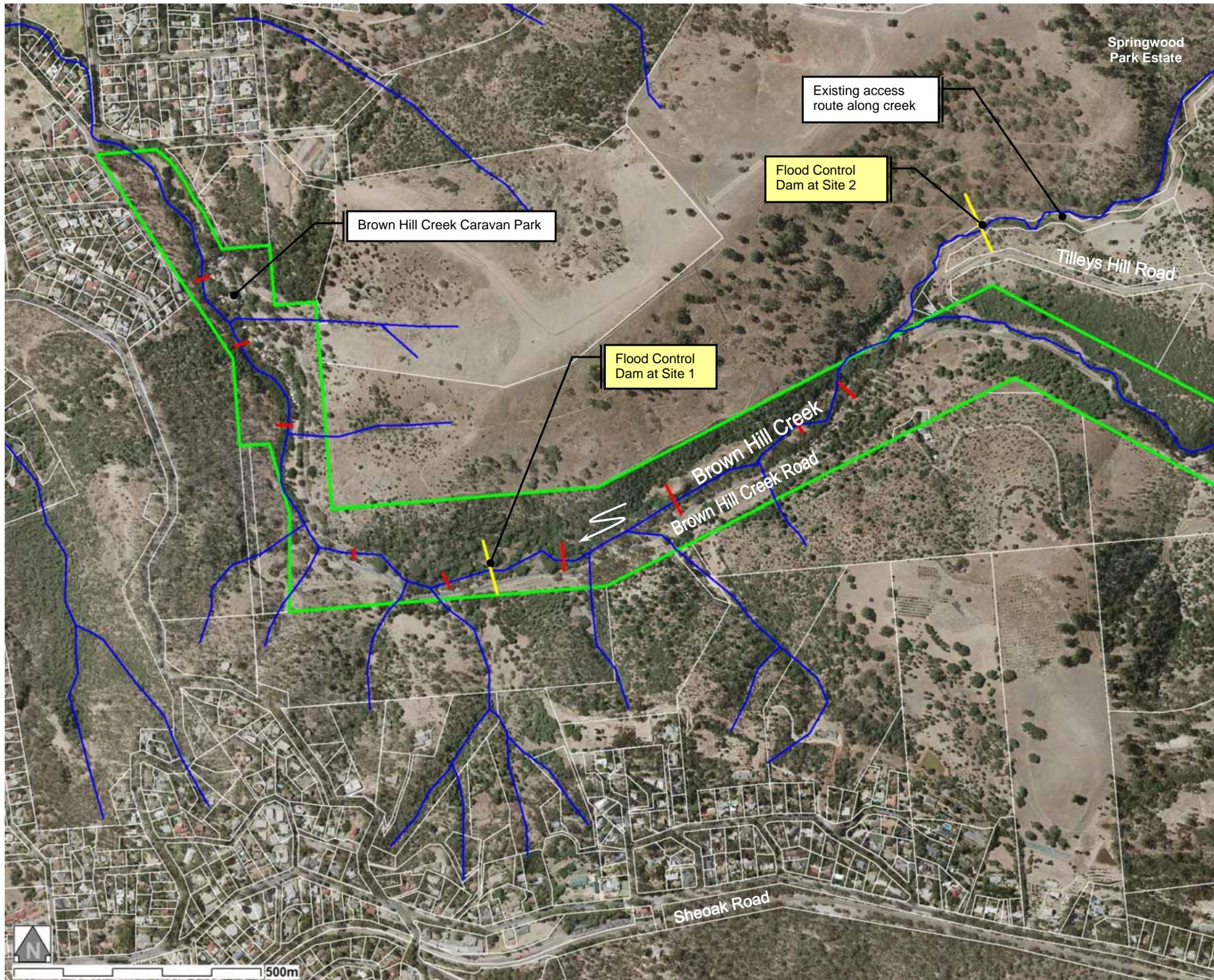
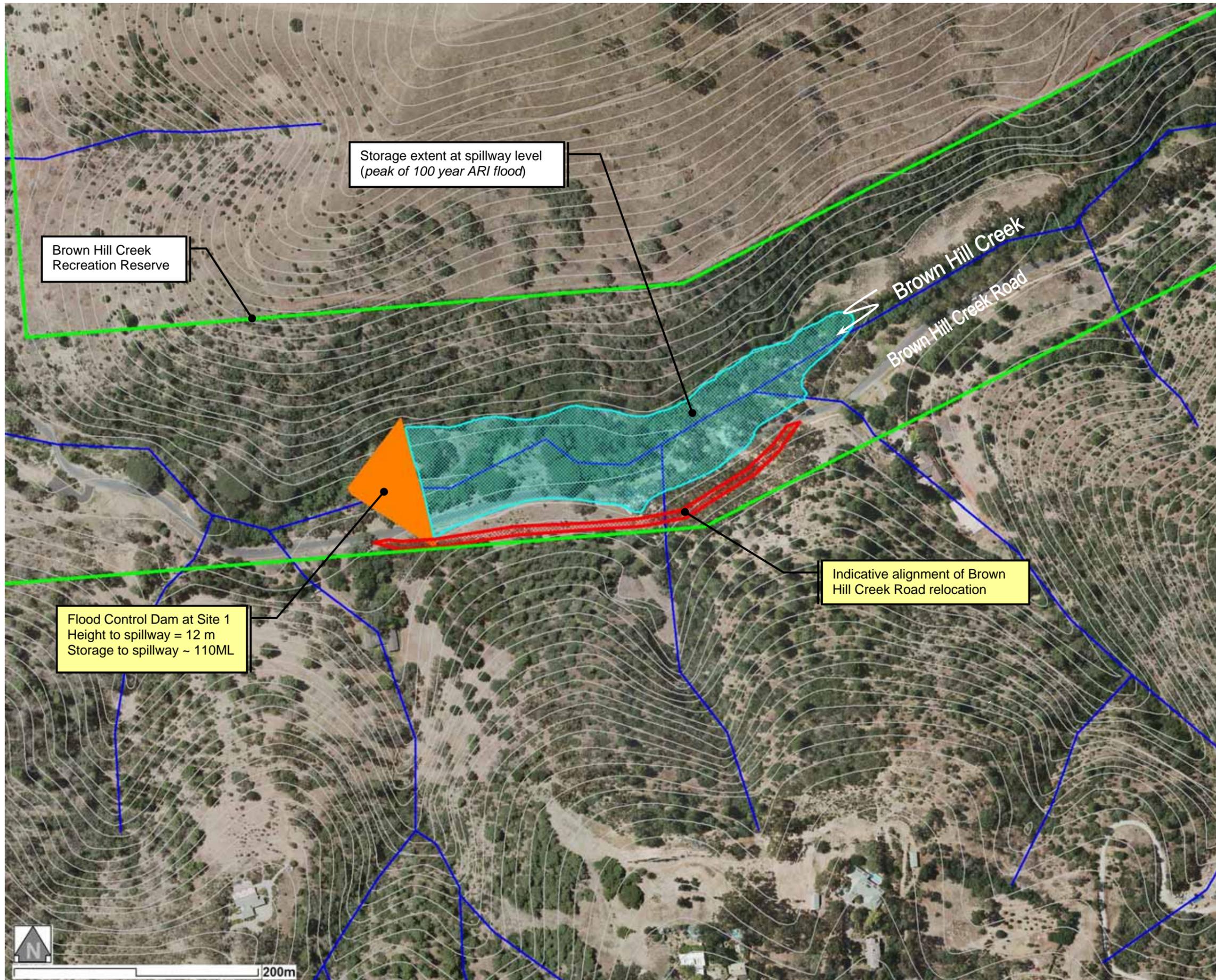


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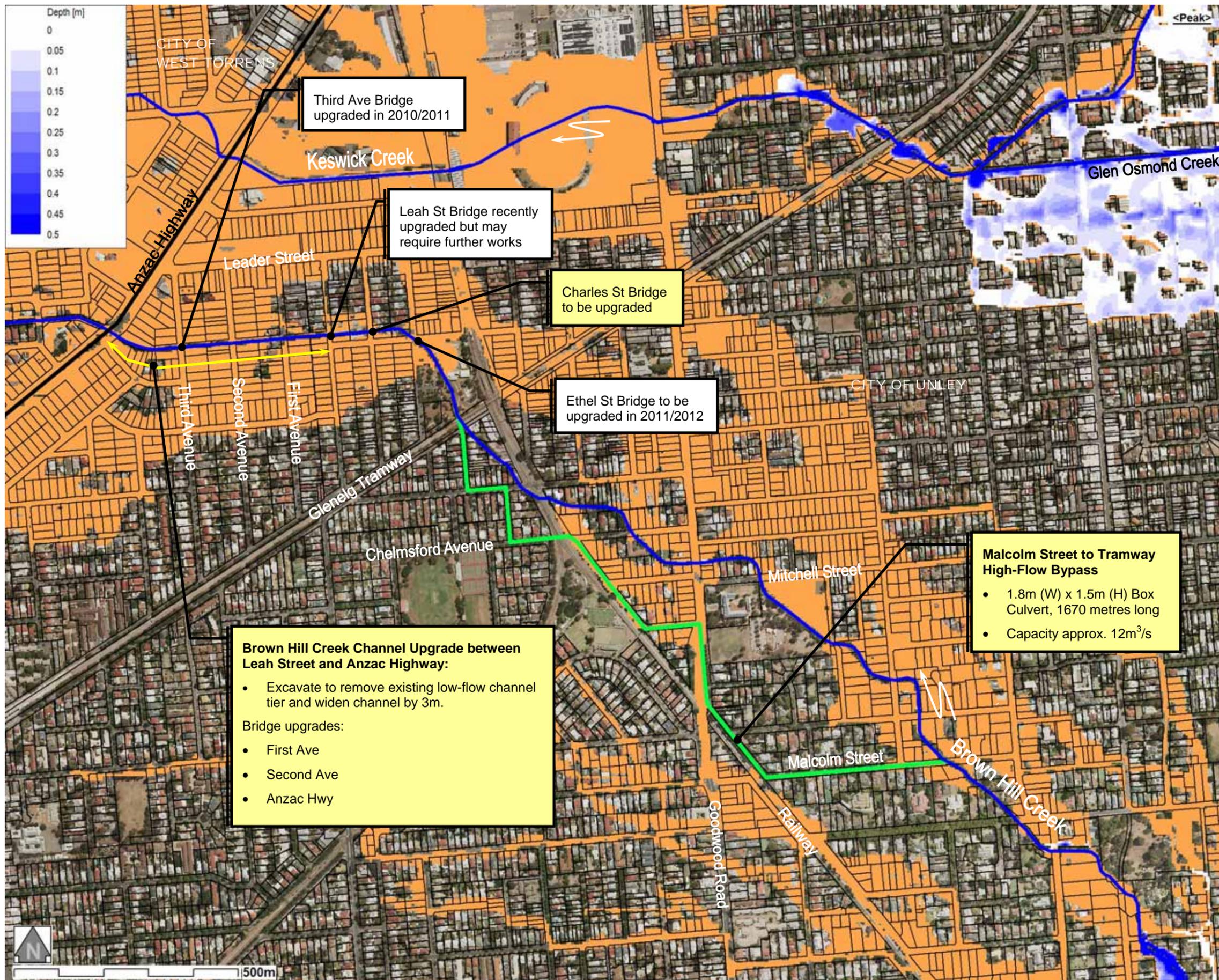
LEGEND

- Weir System at Brown Hill Creek Recreation Reserve
- Brown Hill Creek Recreation Reserve



LEGEND

- Creek / watercourse
- Existing (5 metre interval) surface contour



Brown Hill Creek Channel Upgrade between Leah Street and Anzac Highway:

- Excavate to remove existing low-flow channel tier and widen channel by 3m.

Bridge upgrades:

- First Ave
- Second Ave
- Anzac Hwy

Malcolm Street to Tramway High-Flow Bypass

- 1.8m (W) x 1.5m (H) Box Culvert, 1670 metres long
- Capacity approx. 12m³/s

LEGEND

— Council Area Boundary

■ Base case extent shown for comparison purposes

Note: 100 year ARI depth mapping shown for Flood Control Dam scenario. Depths > 0.5 metres are shown in blue.

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Malcolm Street to Forestville Reserve Bypass Culvert

- Capacity = 20 m³/s
- Width = 2.4 to 3.6m
- Height = 1.8m
- 1710 metres long

Hampton Street to Malcolm Street Bypass Culvert

- Capacity = 9 m³/s
- Width = 1.5 to 2.1m
- Height = 1.5 to 1.8m
- 1490 metres long

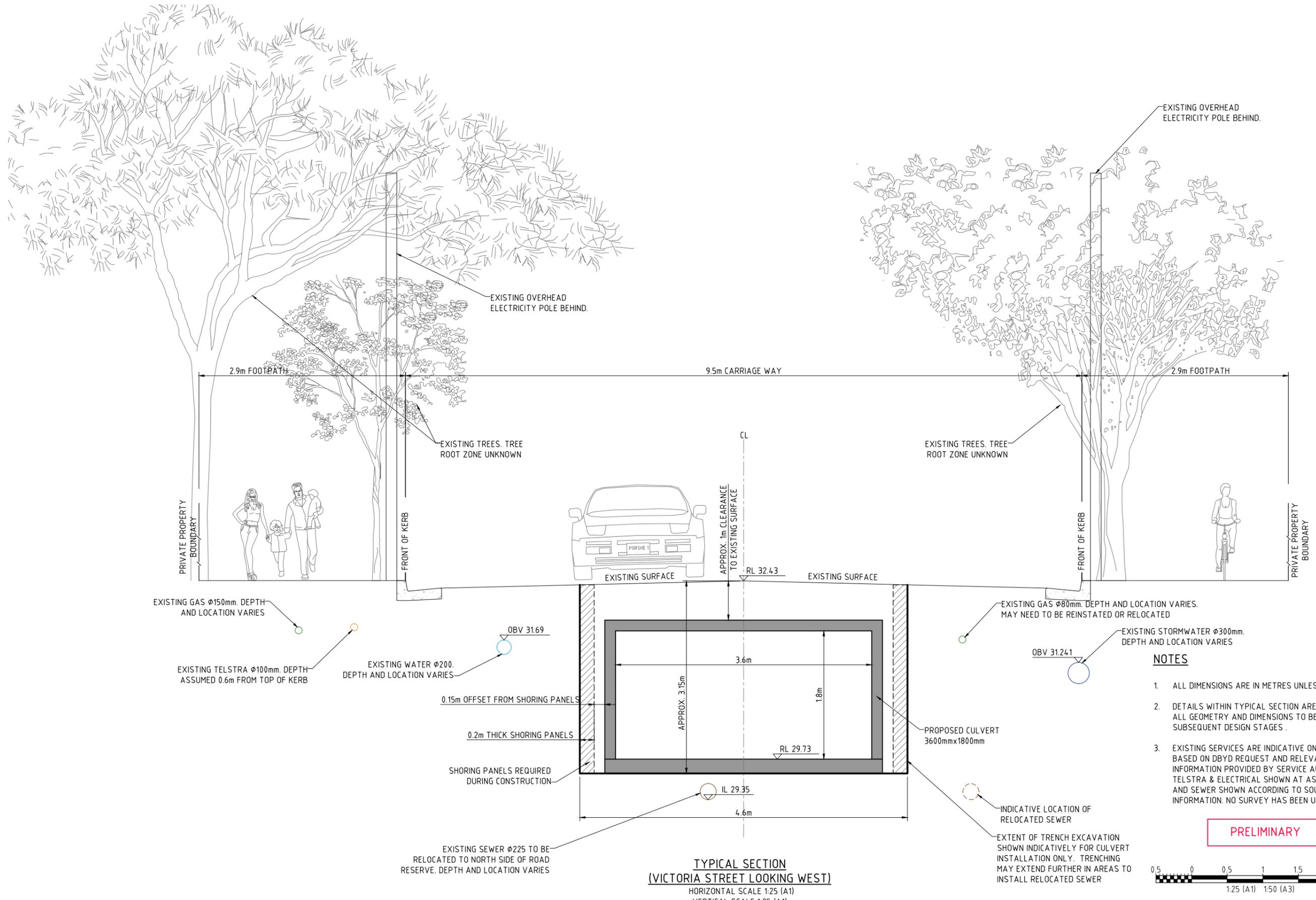
Hampton St to Cross Rd Channel Upgrade required to provide capacity of 27 m³/s

LEGEND

— Council Area Boundary

DRAFT





**TYPICAL SECTION
(VICTORIA STREET LOOKING WEST)**
HORIZONTAL SCALE 1:25 (A1)
VERTICAL SCALE 1:25 (A1)

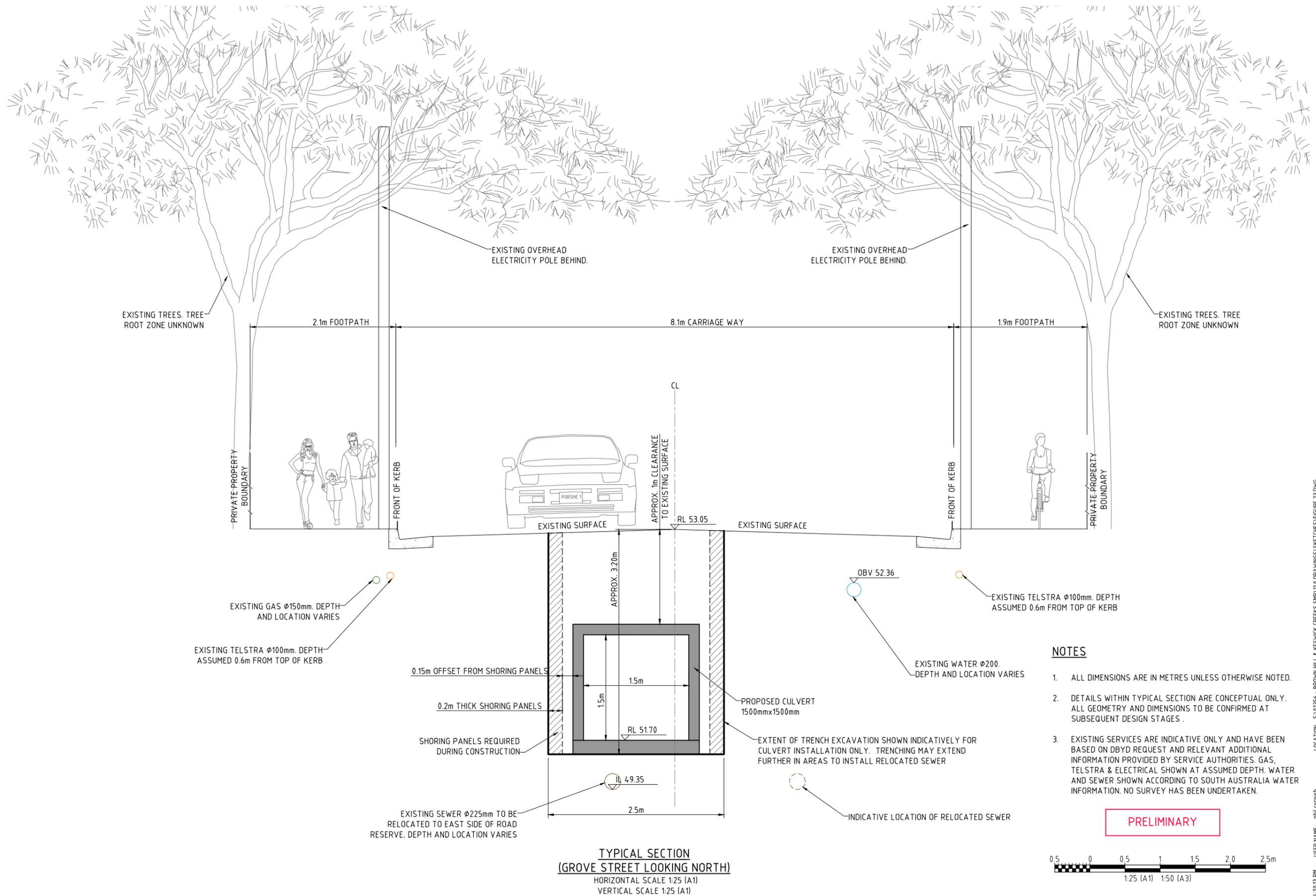
NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. DETAILS WITHIN TYPICAL SECTION ARE CONCEPTUAL ONLY. ALL GEOMETRY AND DIMENSIONS TO BE CONFIRMED AT SUBSEQUENT DESIGN STAGES.
3. EXISTING SERVICES ARE INDICATIVE ONLY AND HAVE BEEN BASED ON DBYD REQUEST AND RELEVANT ADDITIONAL INFORMATION PROVIDED BY SERVICE AUTHORITIES. GAS, TELSTRA & ELECTRICAL SHOWN AT ASSUMED DEPTH. WATER AND SEWER SHOWN ACCORDING TO SOUTH AUSTRALIA WATER INFORMATION. NO SURVEY HAS BEEN UNDERTAKEN.

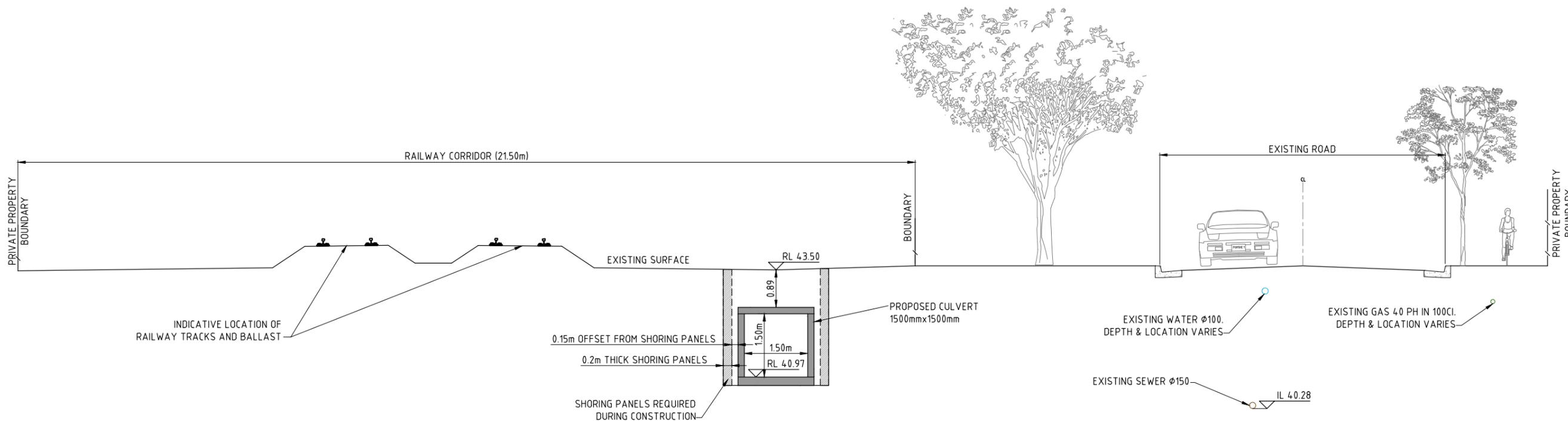
PRELIMINARY



ISSUE	DATE	ISSUE DESCRIPTION
D	23.03.12	ISSUED FOR INFORMATION
C	16.02.12	PRELIMINARY
B	10.02.12	PRELIMINARY
A	28.01.12	PRELIMINARY



ISSUE	DATE	ISSUE DESCRIPTION
B	23.03.12	ISSUED FOR INFORMATION
A	15.02.12	PRELIMINARY



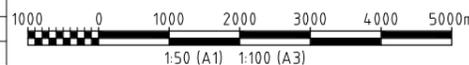
TYPICAL SECTION LOOKING NORTH WEST AT NANTHEA TCE NORTH
 HORIZONTAL SCALE 1:50 (A1)
 VERTICAL SCALE 1:50(A1)

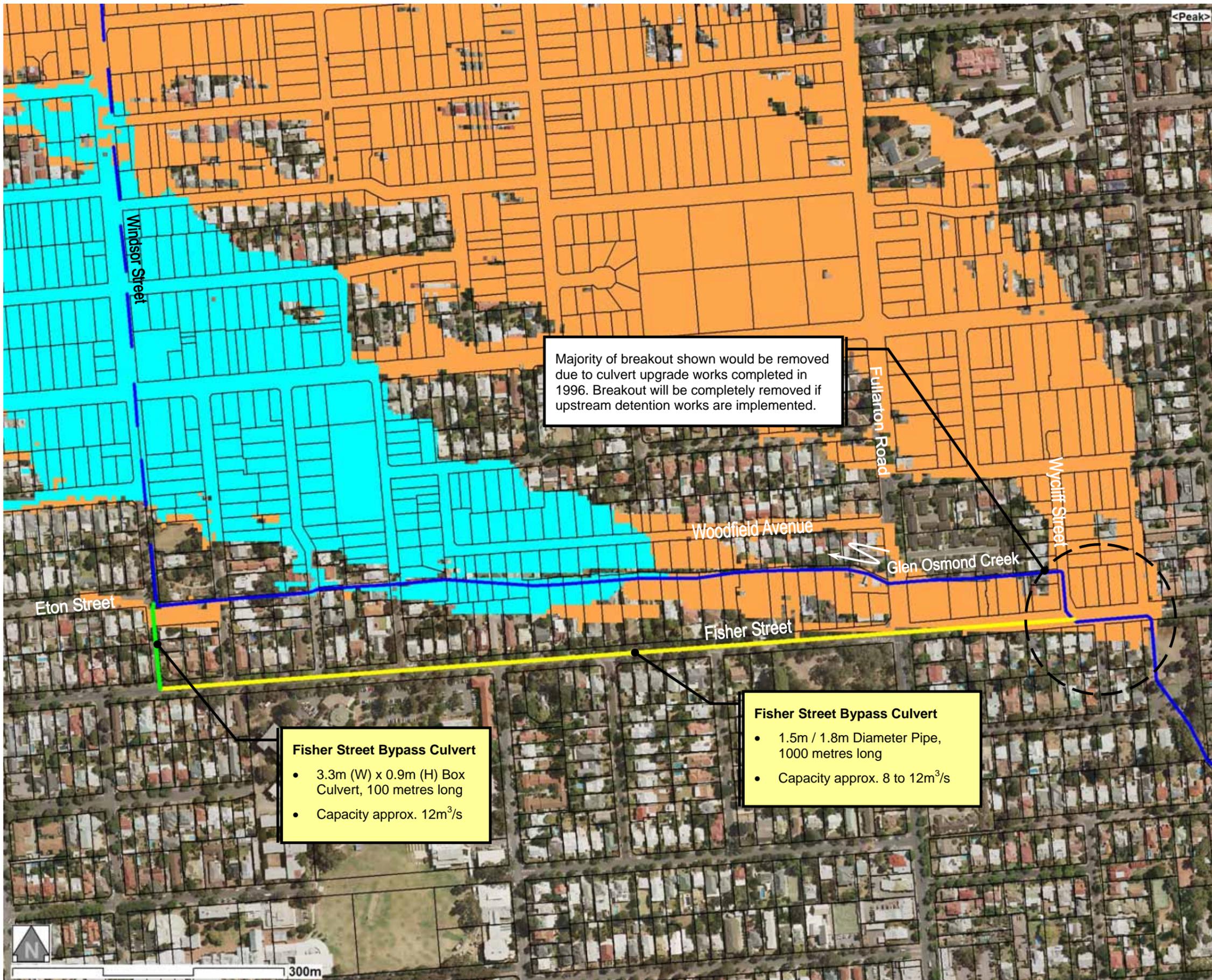
NOTES

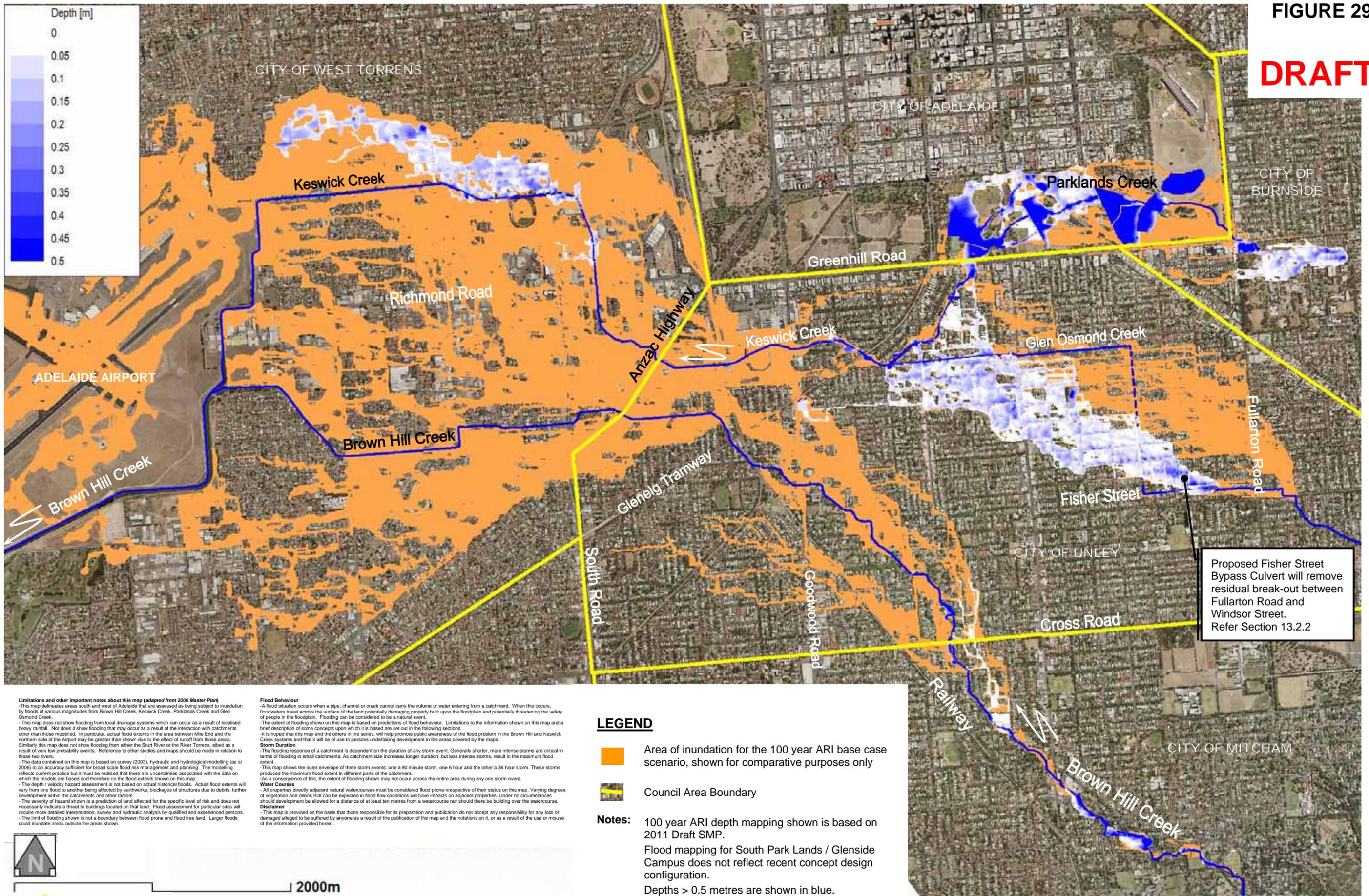
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4. UNDERGROUND SIGNAL AND TELECOMMUNICATIONS ASSETS WITHIN THE RAIL CORRIDOR HAVE NOT BEEN LOCATED. WILL REQUIRE UNDERGROUND SURVEY AS PART OF FURTHER INVESTIGATION.

PRELIMINARY

ISSUE	DATE	ISSUE DESCRIPTION
A	23.03.12	ISSUED FOR INFORMATION







Proposed Fisher Street Bypass Culvert will remove residual break-out between Fullarton Road and Windsor Street. Refer Section 13.2.2

Limitations and other important notes about this map (adapted from 2006 Master Plan)
 - This map delineates areas south and west of Adelaide that are assessed as being subject to inundation by floods of various magnitudes from Brown Hill Creek, Keswick Creek, Parklands Creek and Glen Osmond Creek.
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 - The data contained on this map is based on survey (2003), hydraulic and hydrological modelling (as at 2006) to an accuracy sufficient for broad scale flood risk management and planning. The modelling reflects current practice but it must be realised that there are uncertainties associated with the data on which the models are based and therefore on the flood extents shown on this map.
 - The depth / velocity hazard assessment is not based on actual historical floods. Actual flood extents will vary from one flood to another being affected by earthworks, blockages of structures due to debris, further development within the catchments and other factors.
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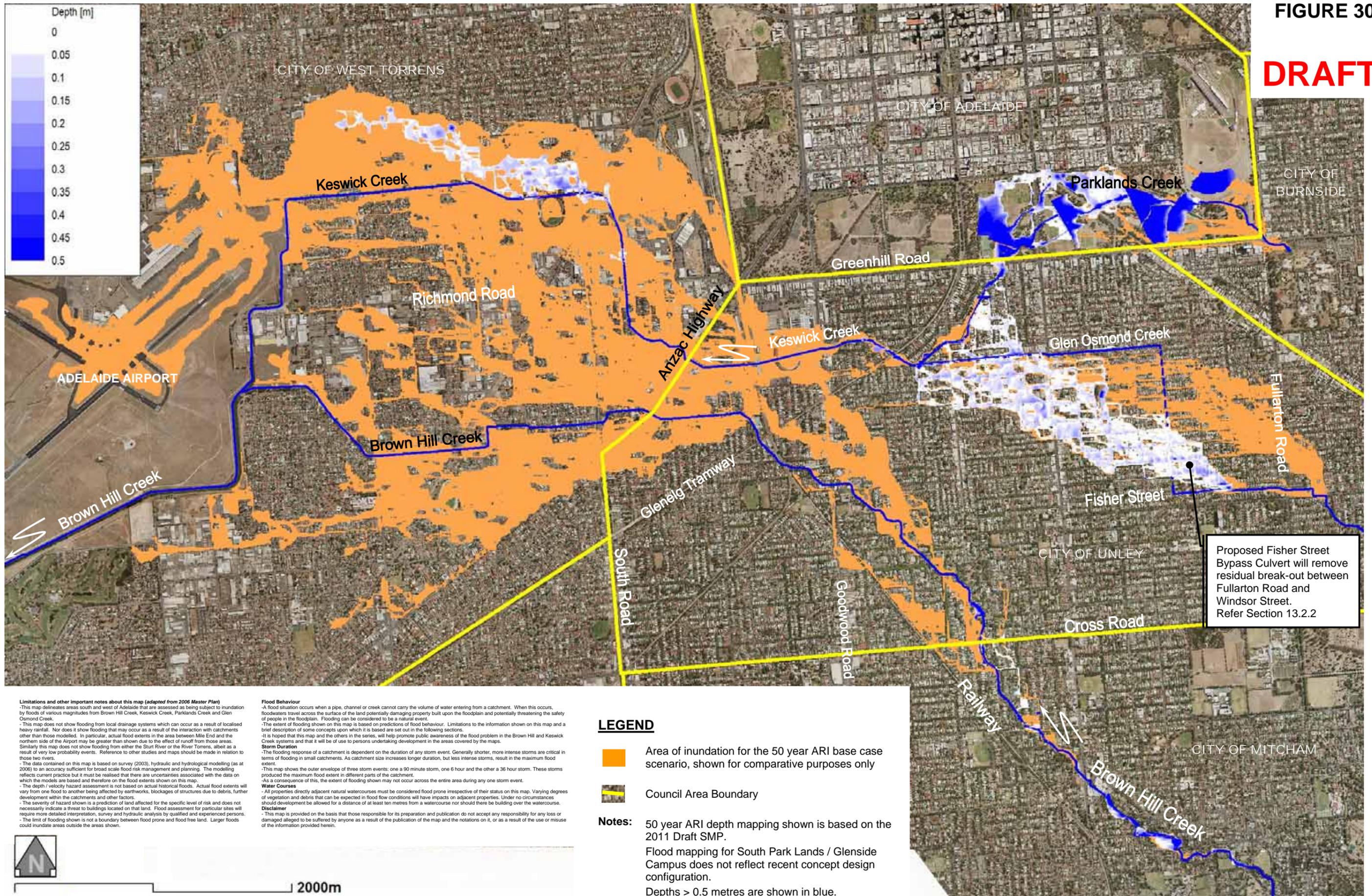
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LEGEND

- Area of inundation for the 100 year ARI base case scenario, shown for comparative purposes only
- Council Area Boundary

Notes: 100 year ARI depth mapping shown is based on 2011 Draft SMP.
 Flood mapping for South Park Lands / Glenside Campus does not reflect recent concept design configuration.
 Depths > 0.5 metres are shown in blue.





Proposed Fisher Street Bypass Culvert will remove residual break-out between Fullarton Road and Windsor Street. Refer Section 13.2.2

LEGEND

- Area of inundation for the 50 year ARI base case scenario, shown for comparative purposes only
- Council Area Boundary

Notes: 50 year ARI depth mapping shown is based on the 2011 Draft SMP.
 Flood mapping for South Park Lands / Glenside Campus does not reflect recent concept design configuration.
 Depths > 0.5 metres are shown in blue.

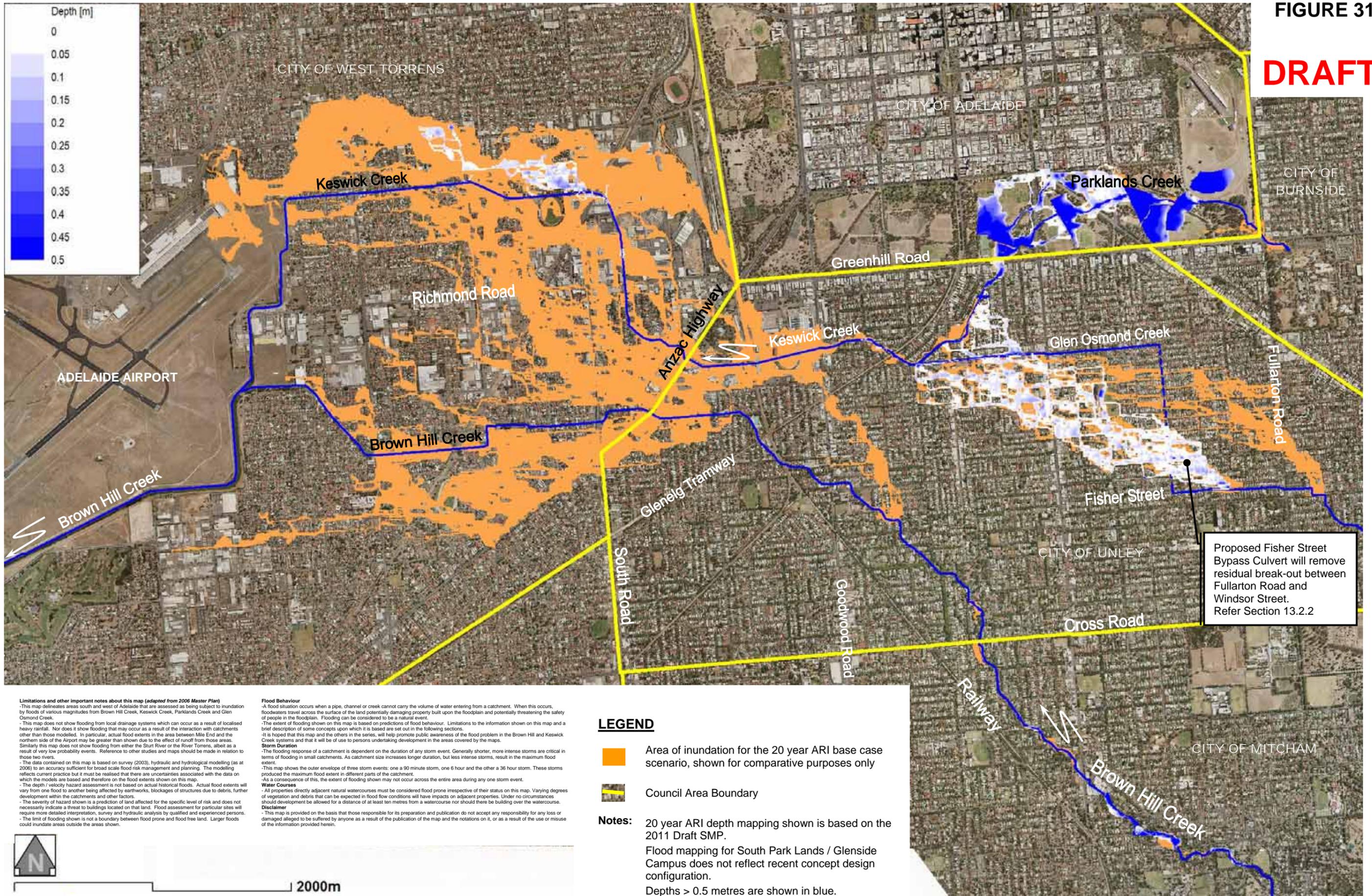
Limitations and other important notes about this map (adapted from 2006 Master Plan)
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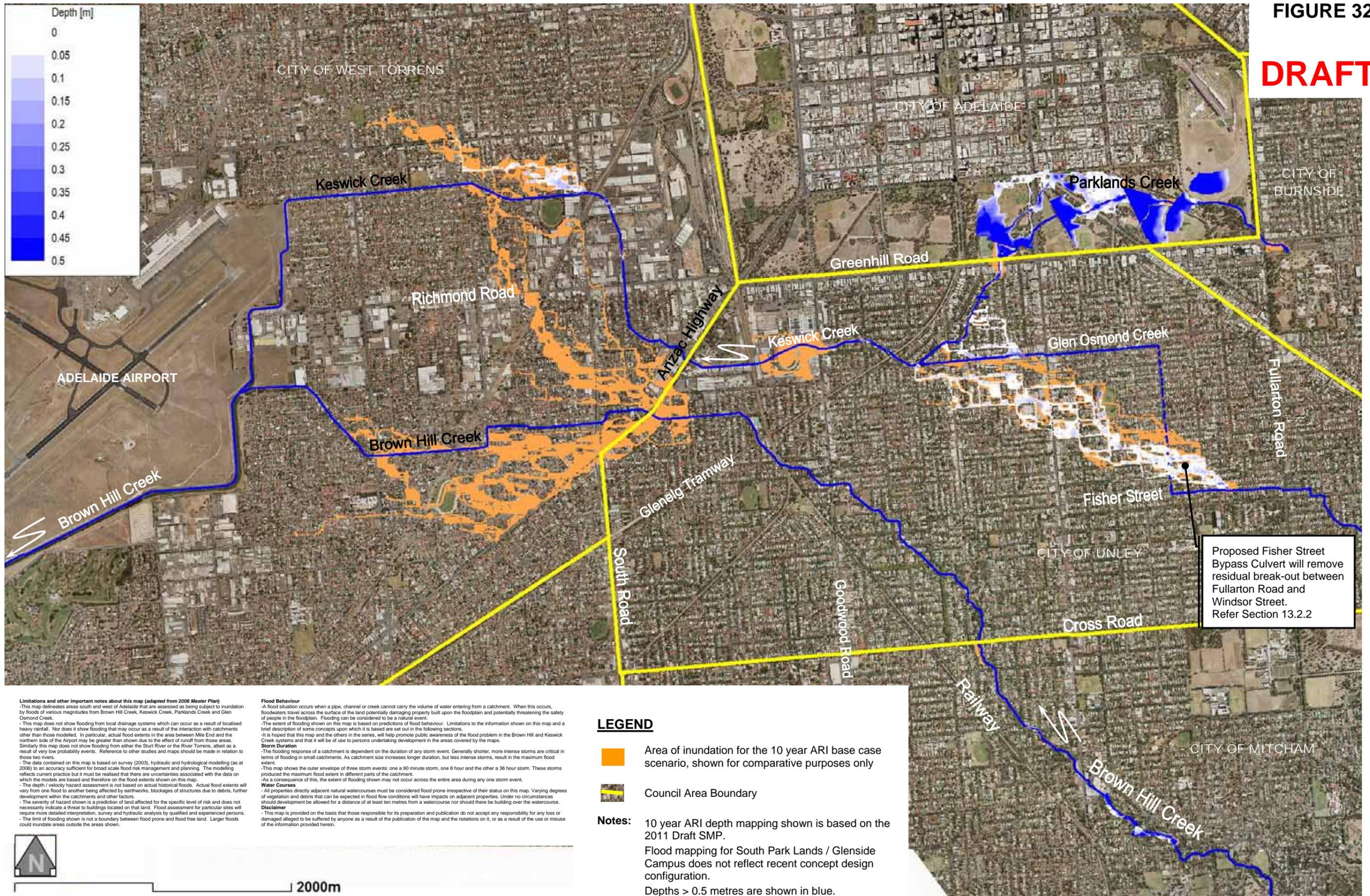
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LEGEND

- Area of inundation for the 20 year ARI base case scenario, shown for comparative purposes only
- Council Area Boundary

Notes:
 20 year ARI depth mapping shown is based on the 2011 Draft SMP.
 Flood mapping for South Park Lands / Glenside Campus does not reflect recent concept design configuration.
 Depths > 0.5 metres are shown in blue.

Proposed Fisher Street Bypass Culvert will remove residual break-out between Fullarton Road and Windsor Street. Refer Section 13.2.2



Limitations and other important notes about this map (adapted from 2006 Master Plan)

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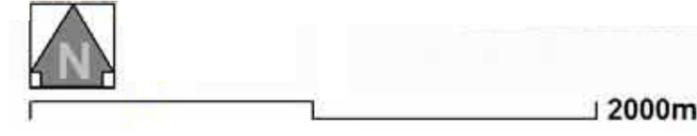
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LEGEND

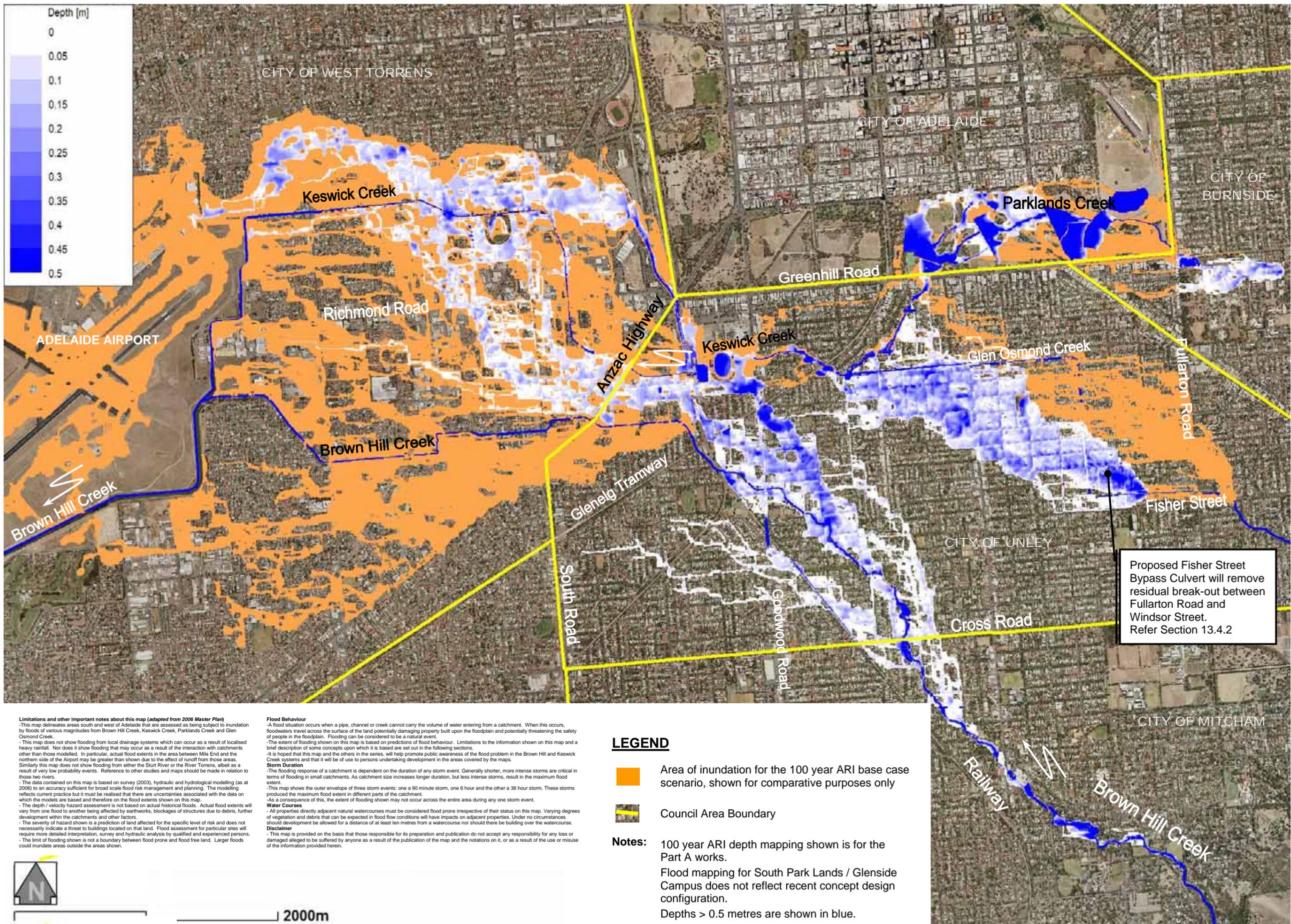
- Area of inundation for the 10 year ARI base case scenario, shown for comparative purposes only
- Council Area Boundary

Notes:

- 10 year ARI depth mapping shown is based on the 2011 Draft SMP.
- Flood mapping for South Park Lands / Glenside Campus does not reflect recent concept design configuration.
- Depths > 0.5 metres are shown in blue.



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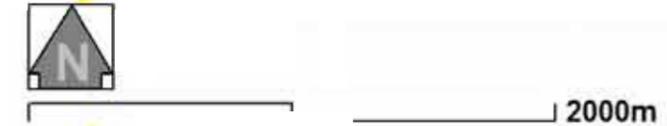
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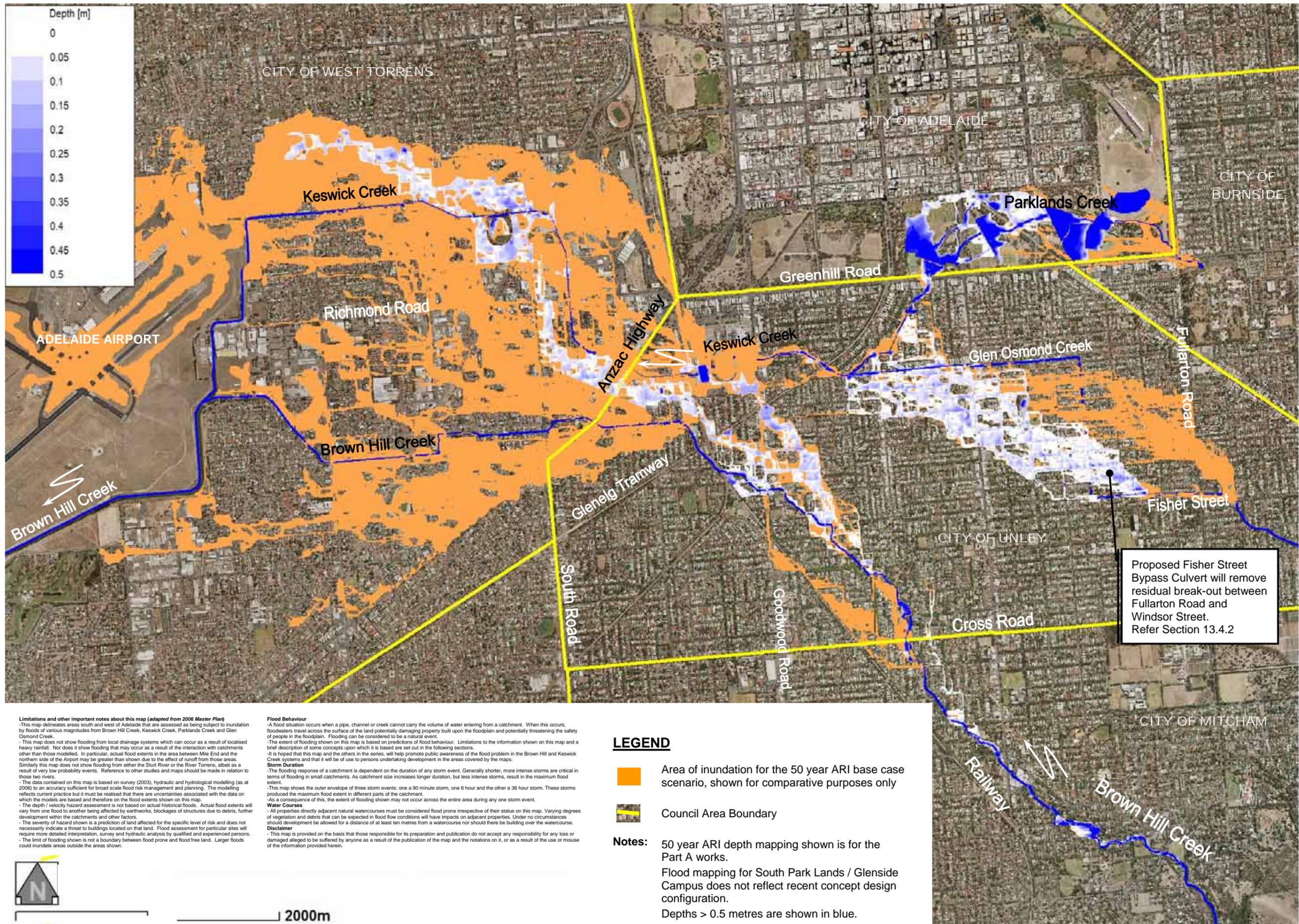
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LEGEND

-  Area of inundation for the 100 year ARI base case scenario, shown for comparative purposes only
-  Council Area Boundary

Notes: 100 year ARI depth mapping shown is for the Part A works.
 Flood mapping for South Park Lands / Glenside Campus does not reflect recent concept design configuration.
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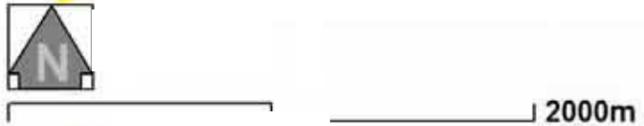
Disclaimer

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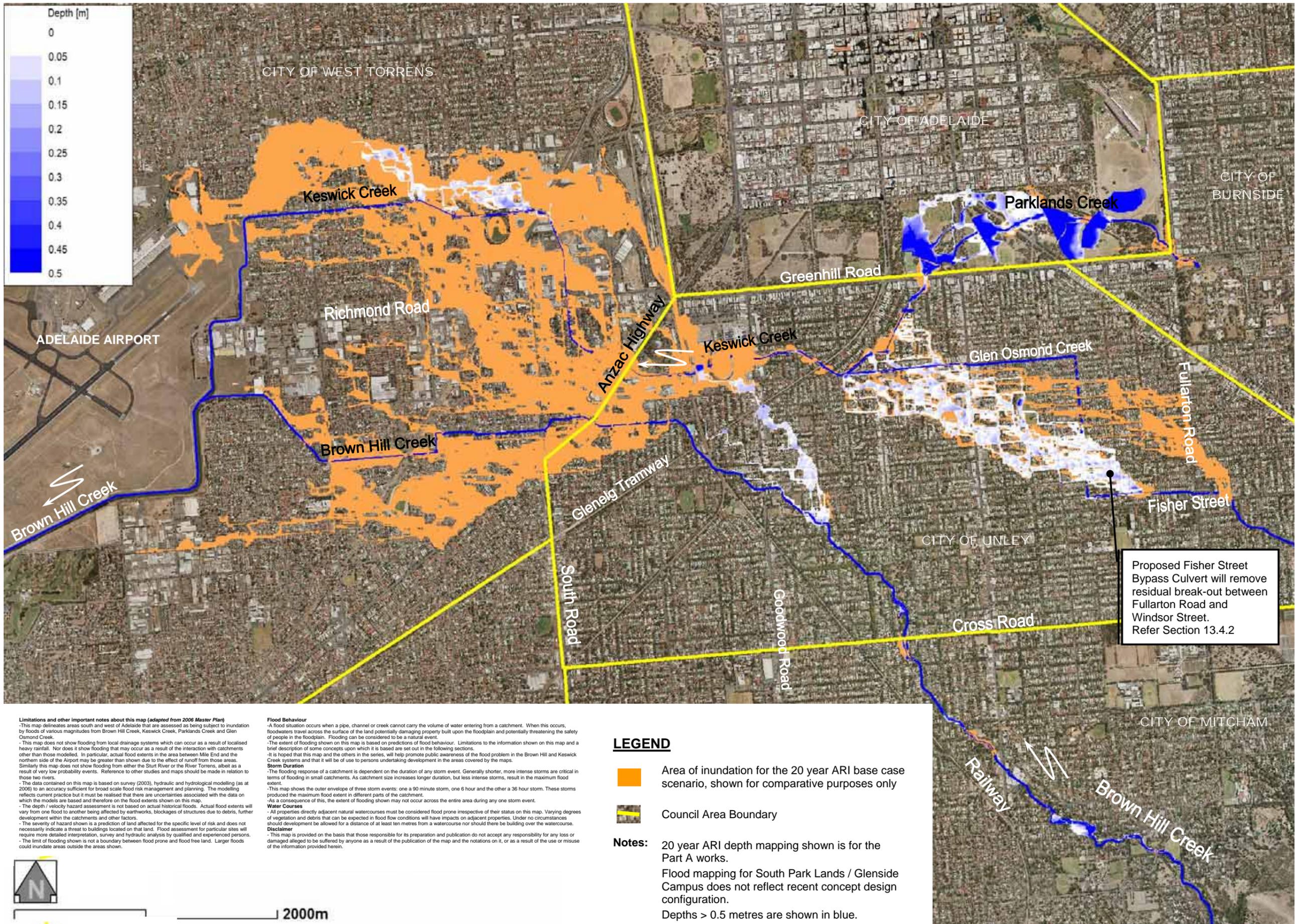
LEGEND

- Area of inundation for the 50 year ARI base case scenario, shown for comparative purposes only
- Council Area Boundary

Notes: 50 year ARI depth mapping shown is for the Part A works.
 Flood mapping for South Park Lands / Glenside Campus does not reflect recent concept design configuration.
 Depths > 0.5 metres are shown in blue.



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Limitations and other important notes about this map (adapted from 2006 Master Plan)
 - This map delineates areas south and west of Adelaide that are assessed as being subject to inundation by floods of various magnitudes from Brown Hill Creek, Keswick Creek, Parklands Creek and Glen Osmond Creek.
 - This map does not show flooding from local drainage systems which can occur as a result of localised heavy rainfall. Nor does it show flooding that may occur as a result of the interaction with catchments other than those modelled. In particular, actual flood extents in the area between Mile End and the northern side of the Airport may be greater than shown due to the effect of runoff from those areas. Similarly this map does not show flooding from either the Sturt River or the River Torrens, albeit as a result of very low probability events. Reference to other studies and maps should be made in relation to those two rivers.
 - The data contained on this map is based on survey (2003), hydraulic and hydrological modelling (as at 2006) to an accuracy sufficient for broad scale flood risk management and planning. The modelling reflects current practice but it must be realised that there are uncertainties associated with the data on which the models are based and therefore on the flood extents shown on this map.
 - The depth / velocity hazard assessment is not based on actual historical floods. Actual flood extents will vary from one flood to another being affected by earthworks, blockages of structures due to debris, further development within the catchments and other factors.
 - The severity of hazard shown is a prediction of land affected for the specific level of risk and does not necessarily indicate a threat to buildings located on that land. Flood assessment for particular sites will require more detailed interpretation, survey and hydraulic analysis by qualified and experienced persons.
 - The limit of flooding shown is not a boundary between flood prone and flood free land. Larger floods could inundate areas outside the areas shown.

Flood Behaviour
 - A flood situation occurs when a pipe, channel or creek cannot carry the volume of water entering from a catchment. When this occurs, floodwaters travel across the surface of the land potentially damaging property built upon the floodplain and potentially threatening the safety of people in the floodplain. Flooding can be considered to be a natural event.
 - The extent of flooding shown on this map is based on predictions of flood behaviour. Limitations to the information shown on this map and a brief description of some concepts upon which it is based are set out in the following sections.
 - It is hoped that this map and the others in the series, will help promote public awareness of the flood problem in the Brown Hill and Keswick Creek systems and that it will be of use to persons undertaking development in the areas covered by the maps.
Storm Duration
 - The flooding response of a catchment is dependent on the duration of any storm event. Generally shorter, more intense storms are critical in terms of flooding in small catchments. As catchment size increases longer duration, but less intense storms, result in the maximum flood extent.
 - This map shows the outer envelope of three storm events: one a 90 minute storm, one 6 hour and the other a 36 hour storm. These storms produced the maximum flood extent in different parts of the catchment.
 - As a consequence of this, the extent of flooding shown may not occur across the entire area during any one storm event.
Water Courses
 - All properties directly adjacent natural watercourses must be considered flood prone irrespective of their status on this map. Varying degrees of vegetation and debris that can be expected in flood flow conditions will have impacts on adjacent properties. Under no circumstances should development be allowed for a distance of at least ten metres from a watercourse nor should there be building over the watercourse.
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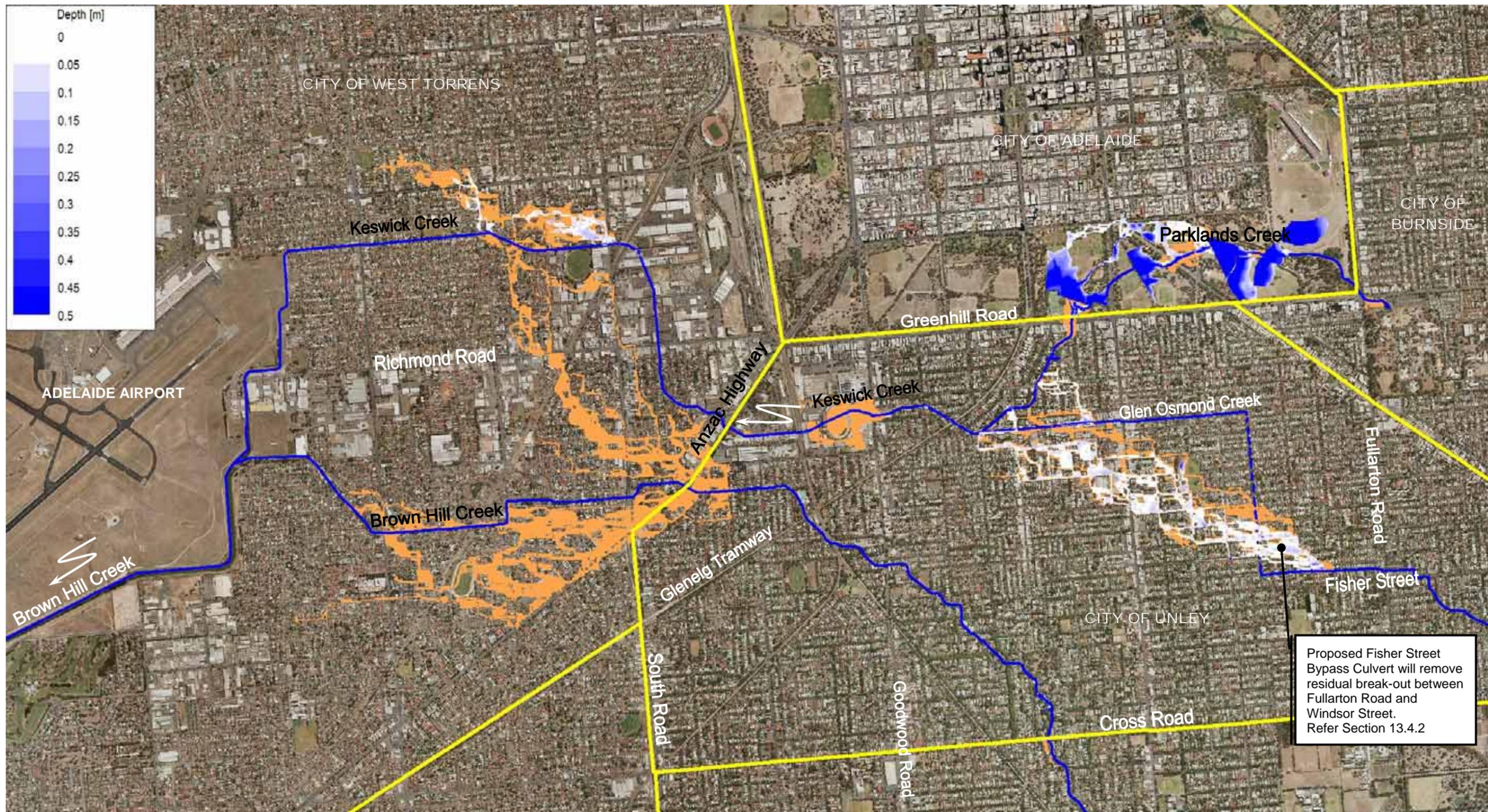
LEGEND

-  Area of inundation for the 20 year ARI base case scenario, shown for comparative purposes only
-  Council Area Boundary

Notes: 20 year ARI depth mapping shown is for the Part A works.
 Flood mapping for South Park Lands / Glenside Campus does not reflect recent concept design configuration.
 Depths > 0.5 metres are shown in blue.



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 - The depth / velocity hazard assessment is not based on actual historical floods. Actual flood extents will vary from one flood to another being affected by earthworks, blockages of structures due to debris, further development within the catchments and other factors.
 - The severity of hazard shown is a prediction of land affected for the specific level of risk and does not necessarily indicate a threat to buildings located on that land. Flood assessment for particular sites will require more detailed interpretation, survey and hydraulic analysis by qualified and experienced persons.
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LEGEND

-  Area of inundation for the 10 year ARI base case scenario, shown for comparative purposes only
-  Council Area Boundary

Notes:
 10 year ARI depth mapping shown is for the Part A works.
 Flood mapping for South Park Lands / Glenside Campus does not reflect recent concept design configuration.
 Depths > 0.5 metres are shown in blue.



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