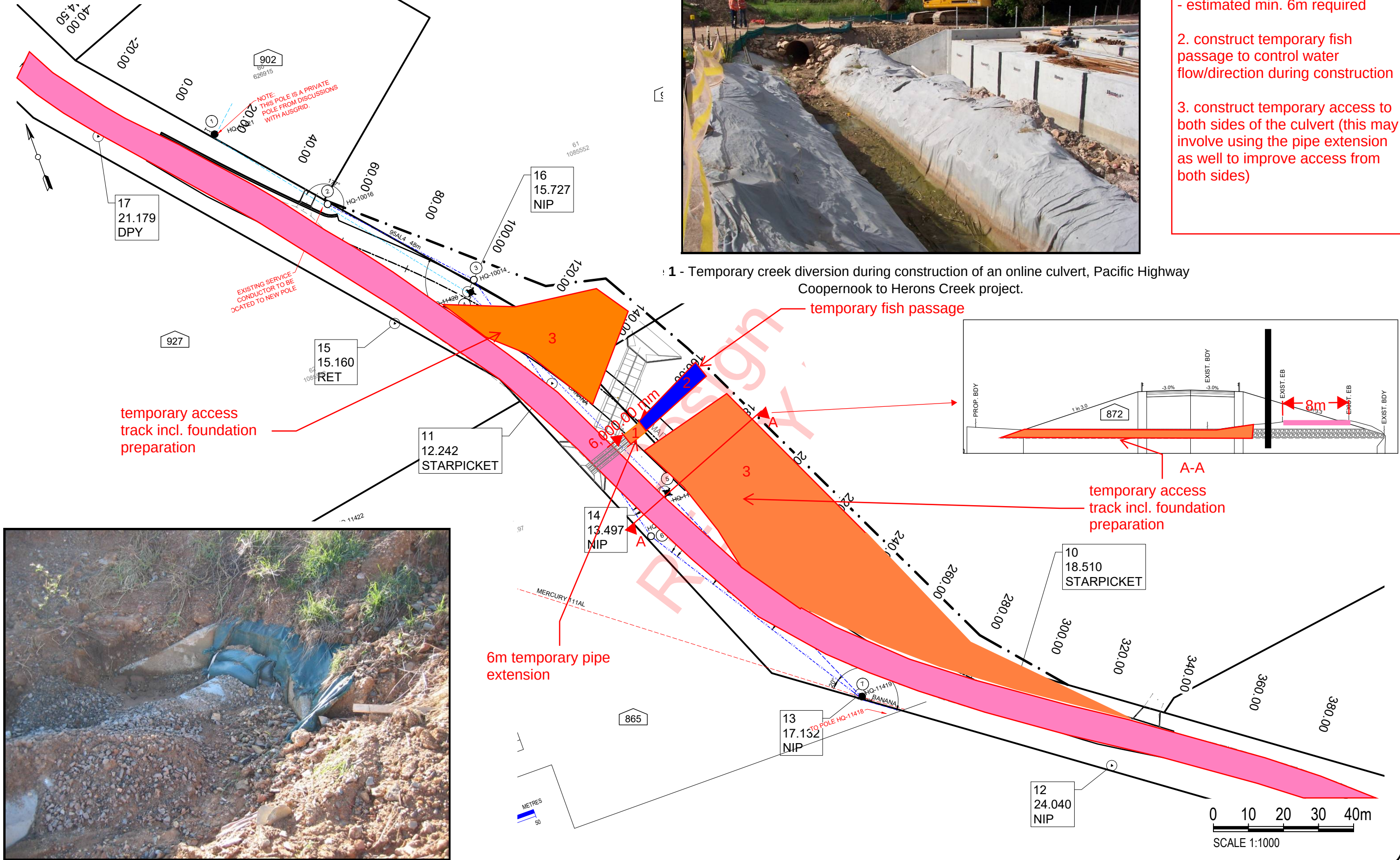


Appendix G

Temporary Fish Passage Channel Construction Methodology

Maitland Vale Road Reconstruction, Rosebrook

Stage 1



1. Construct temporary pipe extension of 3x900mm culvert unit - estimated min. 6m required
2. construct temporary fish passage to control water flow/direction during construction
3. construct temporary access to both sides of the culvert (this may involve using the pipe extension as well to improve access from both sides)

1 - Temporary creek diversion during construction of an online culvert, Pacific Highway Coopernook to Herons Creek project.

- temporary fish passage

temporary access
track incl. foundation
preparation

- temporary access
- track incl. foundation preparation

6m temporary pipe extension

0 10 20 30 40m
SCALE 1:1000

8 - Temporary extension of existing pipe to allow for placement of fill on new carriageway adjacent to existing. Note the seal around pipe join to prevent sediment ingress.

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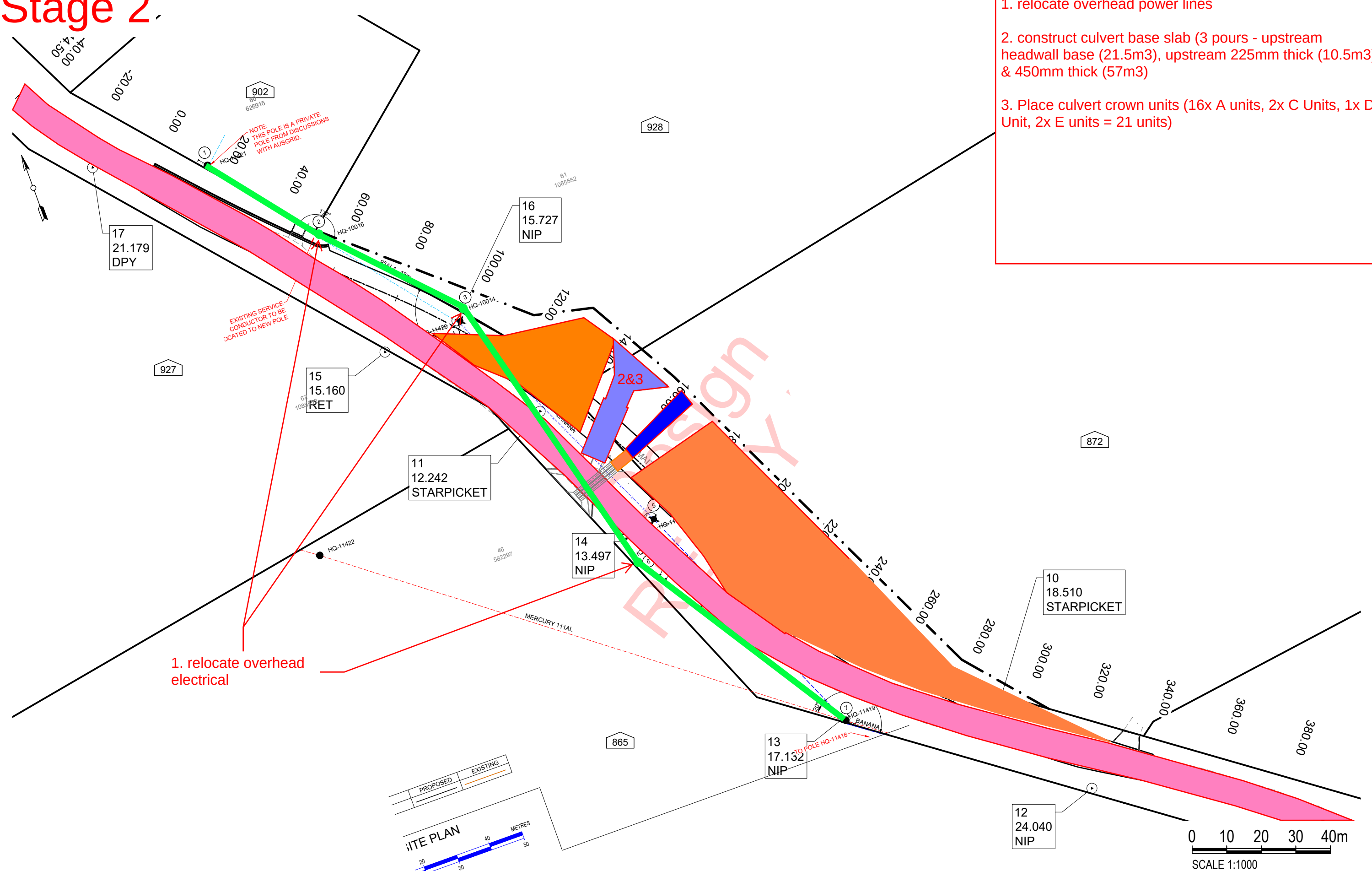
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Stage 2



- 1. relocate overhead power lines
- 2. construct culvert base slab (3 pours - upstream headwall base (21.5m³), upstream 225mm thick (10.5m³) & 450mm thick (57m³)
- 3. Place culvert crown units (16x A units, 2x C Units, 1x D Unit, 2x E units = 21 units)

1. relocate overhead electrical

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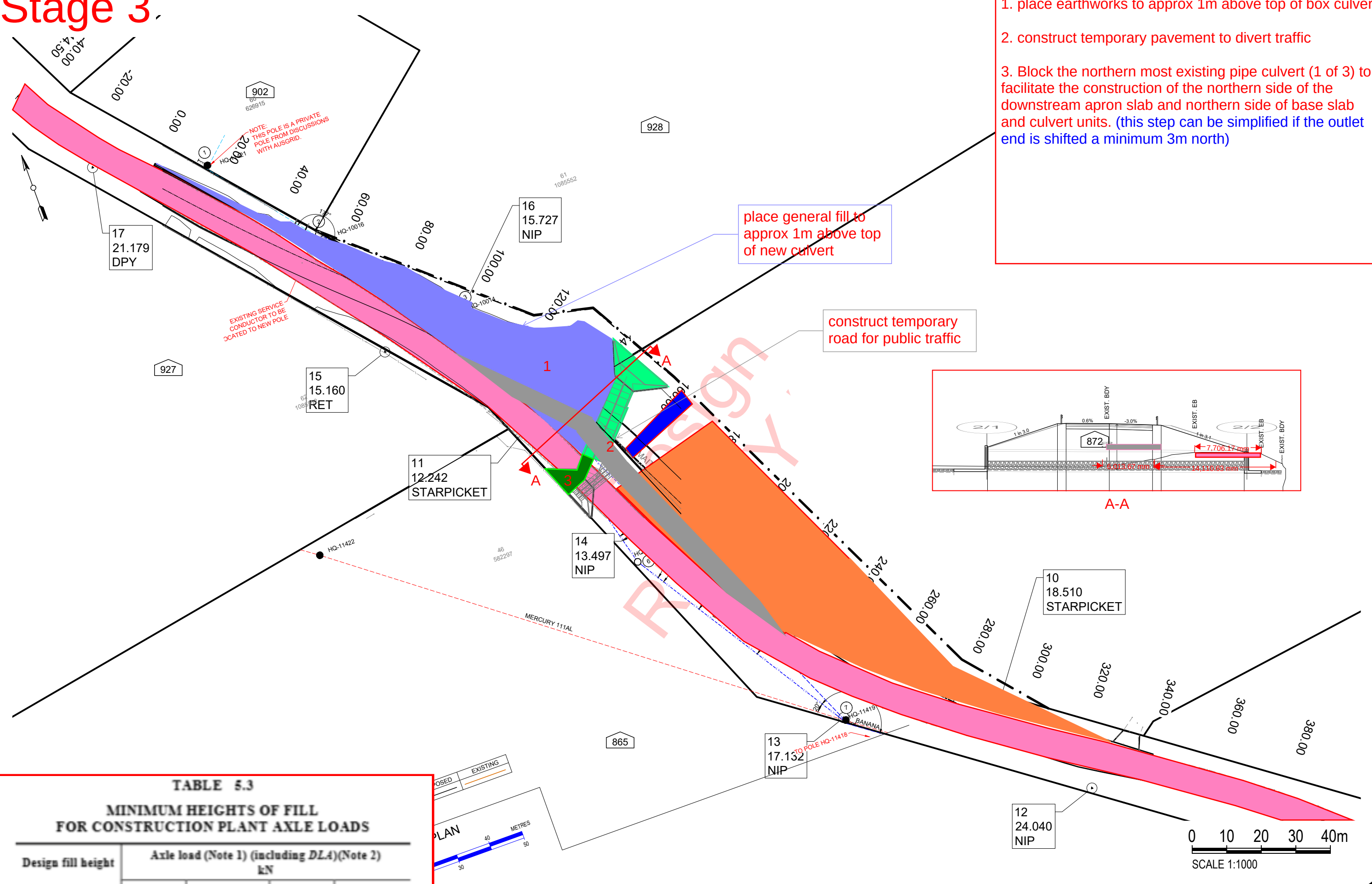
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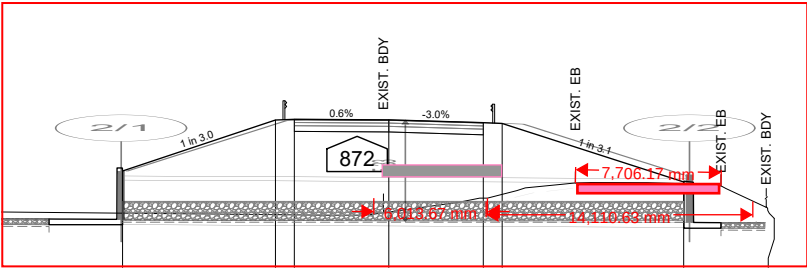
Stage 3



1. place earthworks to approx 1m above top of box culvert
2. construct temporary pavement to divert traffic
3. Block the northern most existing pipe culvert (1 of 3) to facilitate the construction of the northern side of the downstream apron slab and northern side of base slab and culvert units. (this step can be simplified if the outlet end is shifted a minimum 3m north)

place general fill to approx 1m above top of new culvert

construct temporary road for public traffic

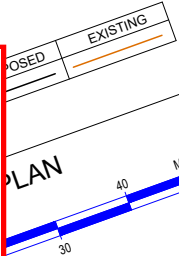


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TABLE 5.3

MINIMUM HEIGHTS OF FILL
FOR CONSTRUCTION PLANT AXLE LOADS

Design fill height m	Axle load (Note 1) (including DLA)(Note 2) kN			
	140	250	500	640
0 to 2	0.4 m	1.4 m	2.0 m	—
>2 to <4	0.4 m	0.8 m	1.2 m	1.4 m
4 to 6	0.4 m	0.7 m	1.0 m	1.2 m



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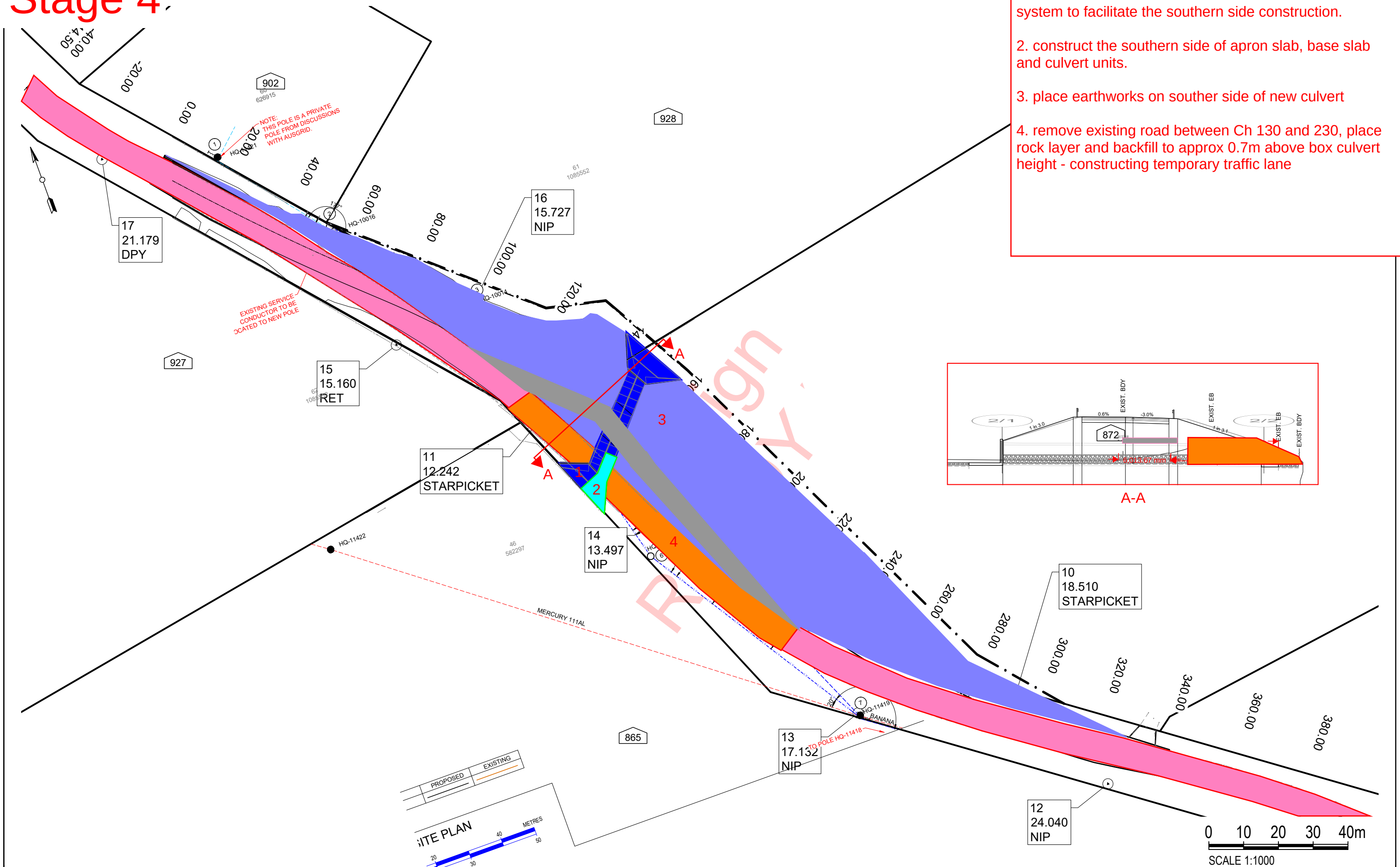
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Stage 4

1. divert water to the northern side of the new box culvert system to facilitate the southern side construction.
2. construct the southern side of apron slab, base slab and culvert units.
3. place earthworks on souther side of new culvert
4. remove existing road between Ch 130 and 230, place rock layer and backfill to approx 0.7m above box culvert height - constructing temporary traffic lane



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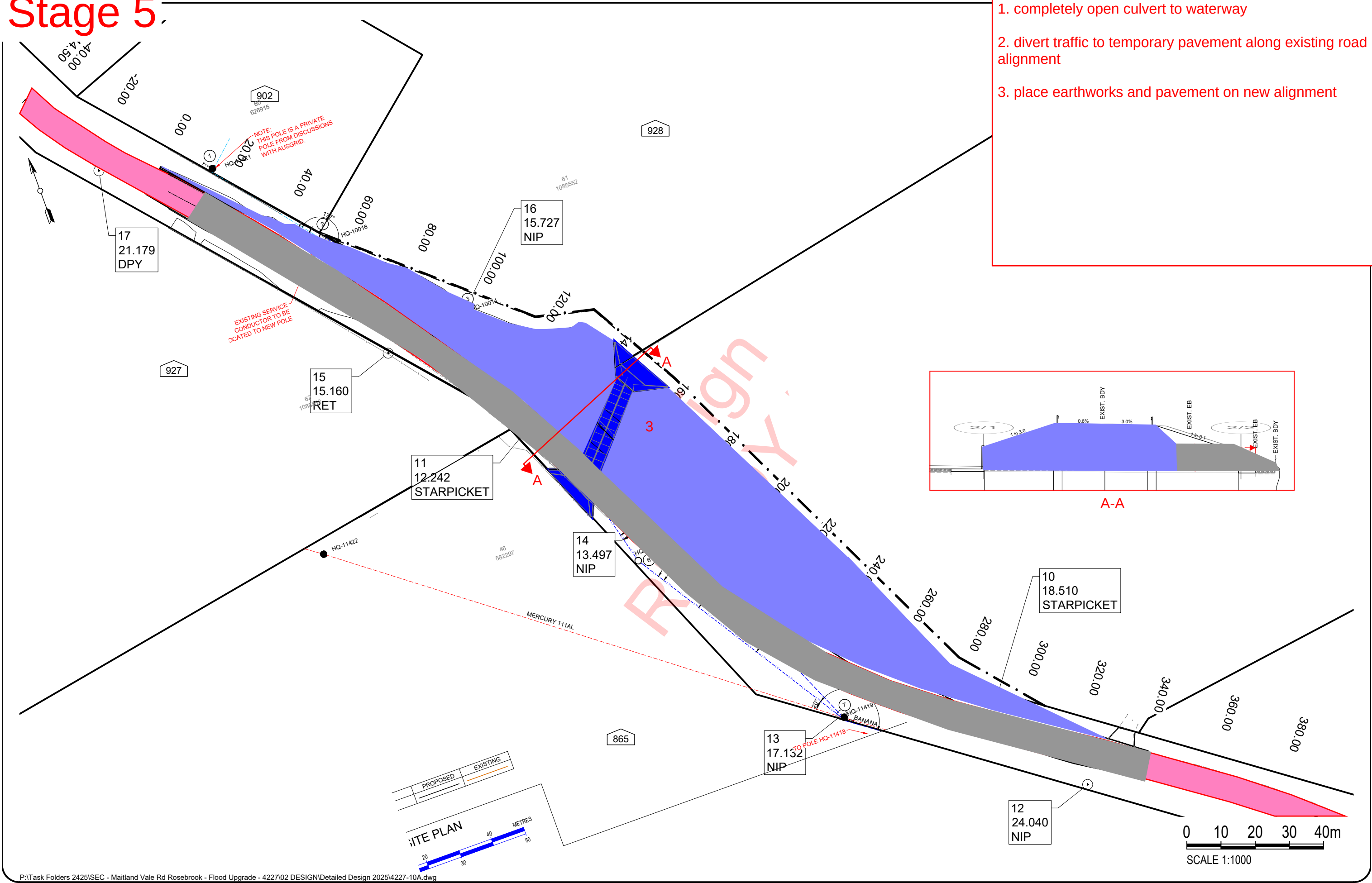
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Stage 5

- 1. completely open culvert to waterway
- 2. divert traffic to temporary pavement along existing road alignment
- 3. place earthworks and pavement on new alignment



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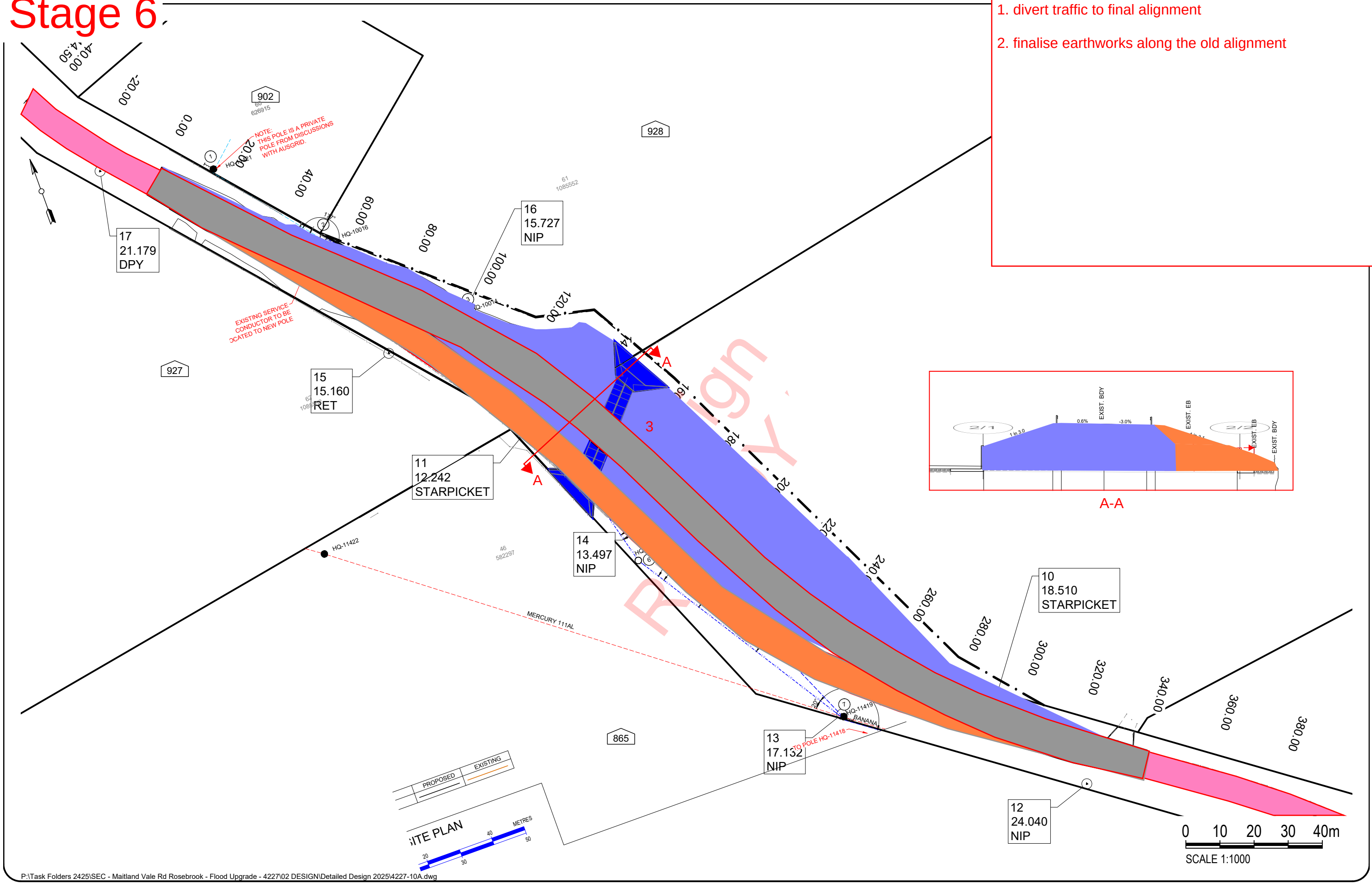
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Stage 6

- 1. divert traffic to final alignment
- 2. finalise earthworks along the old alignment



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