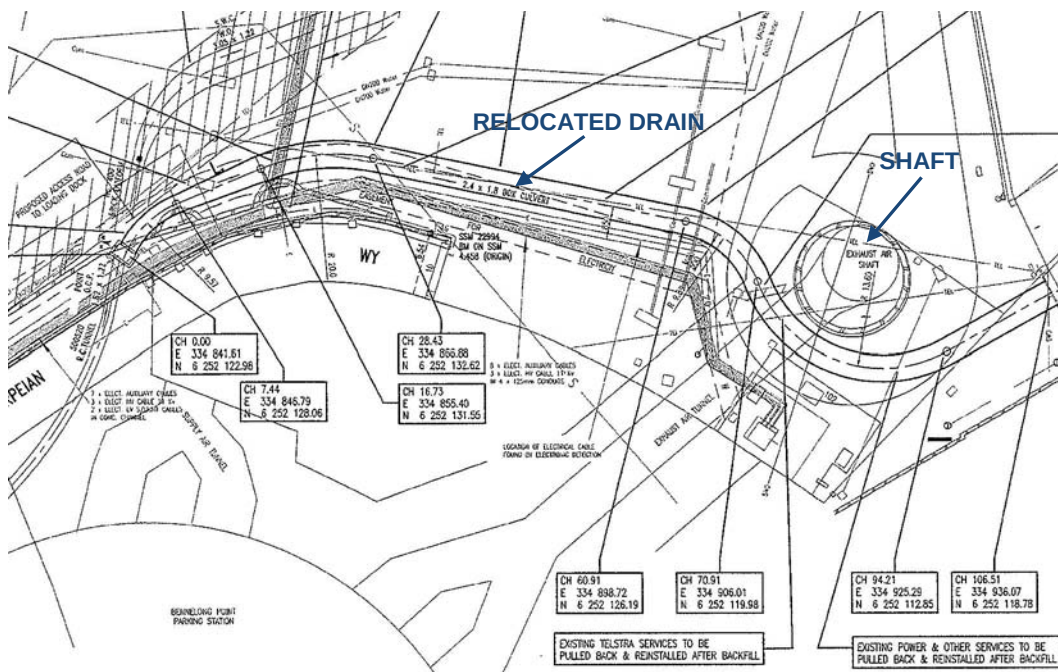


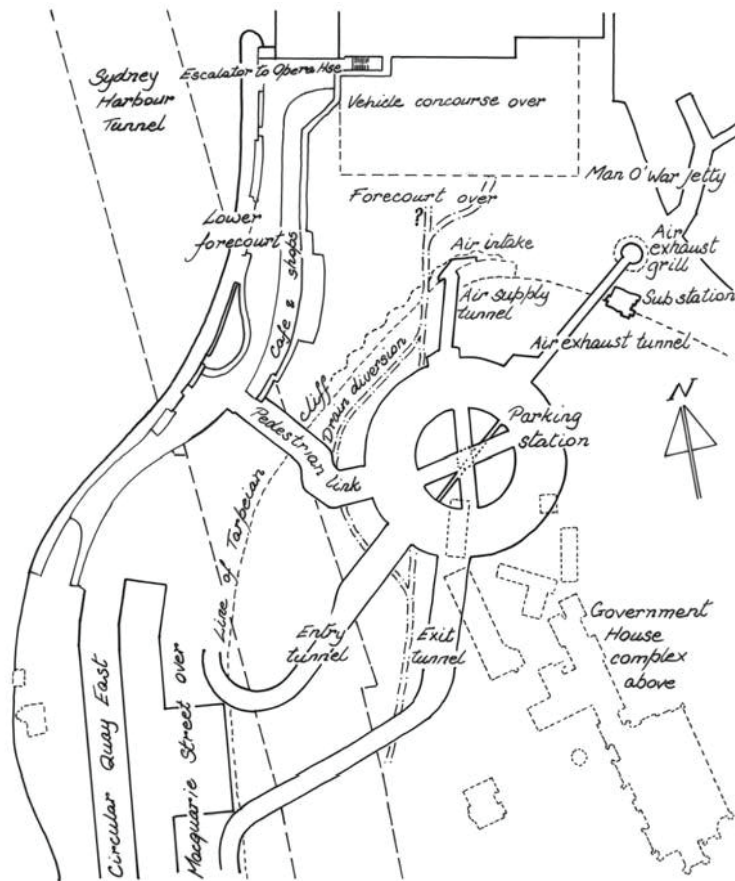


Looking south beneath the forecourt, with the northern ends of the two southern land tunnels and the new columns and beams clearly shown.

**Figure 14:** Connection beneath the immersed tubes and southern tunnels of the Sydney Harbour Tunnel beneath the Opera House forecourt (see Figure 13)



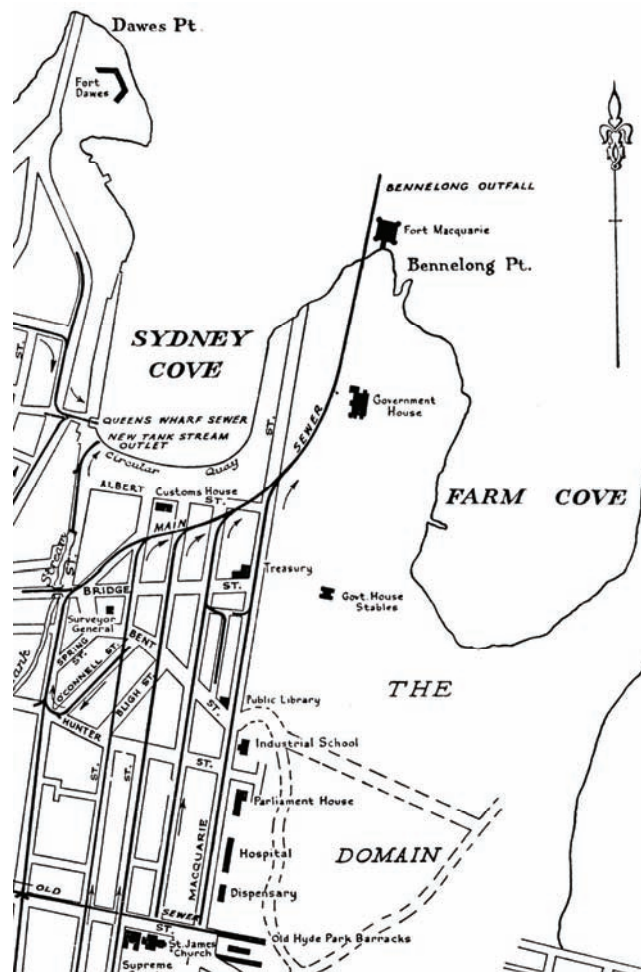
**Figure 15:** Exhaust Tunnel from Opera House Car Park and proposal for relocated Bennelong Drain



**Figure 16:** Summary of major facilities at Bennelong Point

## 2.2 The Bennelong (Macquarie) Drain

The Bennelong Drain was originally called the Main Sewer, discharging at Fort Macquarie (see Figure 17). It was built between 1854 and 1857. It was constructed as a 6 foot by 4 foot brick oviform. Its operation was changed from a sewer to a stormwater drain in 1889 when the Bondi Outfall Sewer was brought on line.



**Figure 17: The 1854-1857 Sewer System**

When the Opera House was constructed, the northern end of the sewer was apparently replaced by a concrete culvert, and when the Carpark cavern was excavated a length of the sewer was diverted around the works (see Figure 16). Figure 18 shows the brick oviform construction as sliced through by the cavern excavation.