NOTE: 1. The purpose of this technical note is to provide further information on construction activities by location to provide an understanding of the potential sequencing and timing of construction associated with the reference project.

REQUEST: N/A

RESPONSE:
1. The EES is based on a reference project, indicating one way that the project could be designed, constructed and operated.

Construction Activities
2. A high-level outline of construction activities for the reference project is provided in Chapter 8 of the Environment Effects Statement (EES). Detail of the scheduling of construction activities was included in the individual EES assessments as relevant.

3. This information on construction activities has been extracted and provided in a visual form to assist understanding of the sequencing and timing of construction activities for the reference project. The construction activities shown in the attached plans are based on utilising the Northern TBM launch site.

4. The information has been organised into five locations for the purposes of presentation as follows:
   - Northern Portal to Southern Portal
   - M80 to Northern Portal
   - Eastern Freeway – west
   - Eastern Freeway interchange (Burke Road to Tram Road)
   - Eastern Freeway – east.

5. The construction activity summary plans for the reference project are provided at Attachment A.

6. The timeframes and durations presented are indicative only and the actual timeframes and durations are to be confirmed by the contractor’s program.

Construction Compounds
7. To construct NEL, various areas within the project boundary would be required for use as construction compounds.
8. Construction compounds would be established by contractors to support construction activities. These compounds would be used for purposes such as site offices, staff amenities, construction support and plant and material laydown.
   a. Material laydown may include storage of components such as tunnel lining segments, bridge beams, reinforcing steel, precast concrete elements and structural steel.
   b. Plant and equipment storage may include cranes, generators, trucks, tool containers.
   c. Contractors may also utilise these compounds for storage of excavated spoil. In most instances spoil would be directly excavated and placed into trucks to avoid double handling and onsite storage. This excludes the tunnel boring machine (TBM) support sites where spoil would be transported via conveyor from the tunnels and temporarily stockpiled in sheds, before being loaded onto trucks for off-site management or disposal.

9. Considerations when selecting construction compounds include proximity to worksites, access and egress for personnel, plant and equipment, and the safety of the public and site personnel. The construction compounds for the Reference Project were identified by NELP personnel and NELP’s constructability advisor, and independently reviewed by a Tier 1 construction contractor.

10. Proximity of worksites to construction compounds is of great importance as it ensures construction efficiency, significantly reducing unnecessary construction plant and truck movements that would otherwise impact on the local transport network. Proximity also results in improved construction durations.

11. Attachment B provides an overview of compound locations proposed for construction of the reference project and the key activities they would support. The compounds in Attachment B are listed in groups to align with the segments shown in Attachment A.

12. Attachment C provides layouts for the larger Reference Project construction compounds which demonstrate a manner in which these areas could be used. Constructors may configure their layout differently for a different project design and/or to optimise the compound for adjacent construction activities. It is therefore important to preserve flexibility to ensure the project can be constructed as efficiently as possible.

13. Draft EPRs B2, B4, CL1, CL3 and CL5 are particularly applicable to Contractors with regard to the planning and management of construction compound activities.

**CORRESPONDENCE:**

N/A

**ATTACHMENTS:**

A. Reference Project Construction Activity Summary Plans

B. Reference Project Construction Compound Activities

C. Indicative Construction Compound Layouts – Larger Site Examples
   1. AK Lines Reserve
   2. Gabonia Avenue
   3. Borlase Reserve
   4. Bulleen Industrial Precinct (Manningham Interchange)
   5. Bulleen Road
   6. Eastern Freeway Interchange & Bulleen Park & Ride
   7. Doncaster Bridge and Park & Ride