**Inspection and Test Plan – Electrical Trenching and Blinding**

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| **Project no.** | | CC0394 | **Project name** | Rangebank BESS | | | | **Date** | | 08/08/2023 | | **Approved by** | Dillon Haire |
| **ITP no.** | 007 | | **Revision no.** | 0 | **Revision date** | 08/08/2023 | **Plant and equipment used** | | | | 15T Excavator, Surveyor, Tandem, Concrete Trucks | | |
| **Lot no.** |  | | **Location (chainages, detailed description or marked up plan)** | | | | | |  | | | | |

Attach Dockets, Certificates and QA Documents to ITP

|  |  |  |  |  | **Verification or test by** | | | | | **Remarks / record (eg. test frequency, reports, certificates, checklist etc)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | **Symal Infrastructure** | | | **RJE Global** | |
| **Item no.** | **Activity** | **Ref docs** | **Acceptance criteria** | **Frequency** | **Key** | **Resp.** | **Initial/date** | **Key** | **Sign date** |
| **1.0 Pre-start activities** | | | | | | | | | | |
| **1.1** | Safety  Ensure that the following items have been actioned:   * SWMS if applicable * Plant Pre-start Inspection * Service locations identified * Worksafe notification in place * Traffic Management Plans (if reqd) * All staff inducted | SMP | SWMS/WMS submitted reviewed & accepted if required.  Plant inspections completed & entered.  Pre-work briefings completed.  Service Diagrams available and services located  **Have any/all of the above SWMS been reviewed and are available to all staff and signed onto every month?**  **Yes □ No □ N/A** **□** | Once (Pre Start) | H | SE |  |  |  |  |
| **1.2** | Environmental   * Air & noise levels * Sediment & erosion controls * Heritage controls * Dust control * Water quality | EMP | Site Environnemental Management Plans (SEMP) on site.  Controls installed as per CEMP.  Water available for dust suppression.  **Have any/all of the above management plans been acquired and are available for review?**  **Yes □ No □ N/A** **□** | Prior to excavation in each location | H | SE |  |  |  |  |
| **1.3** | Excavation Permit  (if required) | Worksafe Excavation Permit. Symal Ground Penetration Permit. | |  |  | | --- | --- | |  |  | |  |  | | Penetration Permit | **□** | | Excavation Permit. | **□** | |  |  | |  |  | |  |  | |  |  | | Prior to start of works | H | SE |  |  |  |  |
| **1.4** | Survey Setout | DWG: 5668-122-1020 Rev 0  DWG: 5668-126-1005 Rev 1 | Peg location of proposed underground services with levels from end to end.  **Has the above been completed and approved?**  **Yes □ No □ N/A** **□** | Every section of Culvert | S | SE |  |  |  |  |
| **1.5** | Material Classification and Source |  | Mix design to be approved prior to placement.  Material properties meet project specification, AS 3600, AS 1379. 25mPa as per construction drawings. | Ongoing | H | PE |  | H |  |  |
| **1.6** | Determine lot size |  | Lot Size = Each construction stage | Ongoing | S | SE |  |  |  |  |
| **2.0 Excavation** | | | | | | | | | | |
| **2.1** | Excavate to width and depth as per survey pegs | Drawing no. 5668-126-1005 Rev 1 | Trench depth nominated tolerance is 0 to -20mm. In reference to the depth of the culvert.  Trench Width is as per drawings provided. Typical trench width will be 1.6m.  Road Crossing trench width will be 4.5m.  **Have the above depths of cover been achieved and approved?**  **Yes □ No □ N/A** **□** | Entire length of Culvert | **S** | SE |  |  |  | Photos of trench width and depth. |
| **2.2** | Damp Proof Membrane | Drawing no. 5668-126-1005 Rev 1 | Has the 0.2mm damp proof membrane been installed with accordance to the design drawings?  The DPM extends up the sides of the blinding on both edges, above the surface of the blinding.  Has the DPM been laid and overlapped at 200mm along the length of the culvert trench. | Entire length of Culvert | S | SE |  |  |  |  |
| **2.3** | Connoly Joint Installation | Drawing no. 5668-126-1005 Rev 1 | Have Connolly joints been installed at 2500mm spacings. Nominated KJ100. | Entire length of Culvert | W | SE |  | W |  |  |
| **2.4** | Installation of Formwork and boxing/finished levels | Drawing no. 5668-126-1005 Rev 1 | Has formwork or boxing or height pins been installed as per the nominated design tolerance of 0 to -10mm of the design finished level of the blinding. As per the nominal datum of 10m.  Note: RJE are to confirm applicable height of Concrete Culvert segments. | Entire length of Culvert | H | SE, SS |  | W |  |  |
| **2.5** | Pre pour Inspection | Drawing no. 5668-126-1005 Rev 1  Pre-Pour Checklist | Pre-pour inspection undertaken, confirming that all requirements have been met and pour can be completed.  **Has all requirements been met, RJE supervision involved in inspection and approval given and considered ready to pour?**  **Yes □ No □ N/A** **□** | Entire length of Culvert | H | SE, SS |  | H |  | Pre pour checklist |
| **2.6** | Finishing | Specifications | Steel Trowel non-slip finish nominated. | Entire length of Culvert | W | SE |  | W |  |  |

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| Works complete (sign SS) |  |  | Date works complete |  |
| Lot conforms (sign PE) |  |  | Date lot closed |  |
| NCR no. raised |  |  | Date NCR closed for this lot |  |

**Responsibility (resp.) key: PM –** Project Manager**, PE –** Project Engineer**, SE –** Site Engineer**, CS –** Civil Superintendent, **SS –** Site Supervisor,

**Inspection key: W –** Witness, **H –** Hold Point, **S -** Surveillance