**Inspection and test plan – In-situ Culverts and Pits**

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| **Project no.** | |  | **Project name** | Rangebank BESS | | | | **Date** | | 09/08/2023 | | **Approved by** | Luke Soltys |
| **ITP no.** |  | | **Revision no.** |  | **Revision date** |  | **Plant and equipment used** | | | |  | | |
| **Lot no.** |  | | **Location (chainages, detailed description or marked up plan)** | | | | | |  | | | | |

Attach Dockets, Certificates and QA Documents to ITP

|  |  |  |  |  | **Verification or test by** | | | | | **Remarks / record (e.g., test frequency, reports, certificates, checklist etc)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | **Symal Infrastructure** | | | **RJE Global** | |
| **Item no.** | **Activity** | **Ref docs** | **Acceptance criteria** | **Acceptance** | **Key** | **Resp.** | **Initial/date** | **Key** | **Sign date** |
| **1.0 Planning** | | | | | | | | | | |
| 1.1 | Determine lot size |  | Lot Size = Each construction stage | Refer Lot Map | S | SE |  |  |  | Lot Map |
| 1.2 | Survey Setout | IFC Drawings | Base of excavation and extents of pits/culverts pinned and checked to be correct line and level per IFC drawings. | Yes  No  N/A | S | SE |  |  |  |  |
| 1.3 | Concrete mix | IFC Drawings | Confirm correct concrete mix in use prior to commencement of pour | Concrete mix:  Strength: \_\_\_\_\_\_\_\_MPa  Slump: \_\_\_\_\_\_mm  Aggregate size: \_\_\_\_\_\_mm  Additives: | H | SE |  |  |  |  |
| **2.0 Construction** | | | | | | | | | | |
| 2.1 | Install Reinforcement | IFC Drawings | Reinforcement installed as per IFC Drawings and Specifications. | Yes  No  N/A | H | SS |  | H |  | Pre-pour checklist |
| 2.2 | Formwork Setout and positioning correct | IFC Drawings | Formwork installed in accordance with IFC drawings to correct dimensions. | Yes  No  N/A | H | SS |  | H |  | Pre-pour checklist |
| 2.3 | Concrete jointing | IFC Drawings | Construction joints to be installed in accordance with Civil Drawings and notes using correct materials. | Yes  No  N/A | H | SS |  |  |  |  |
| 2.4 | Concrete Placement | IFC Drawings | Check Correct Mix supplied?  MIX: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Concrete shall be transported, handled and placed to prevent segregation, loss or leakage of materials.  Concrete to be tamped/vibrated to increase density and prevent voids, honeycombing or surface defects. | Yes  No  N/A | S | SS |  |  |  | Docket |
| 2.5 | Concrete Testing | IFC Drawings | Samples to be taken from chute at a frequency of 1 test per 50m3.  Each sample shall consist of two cylinder specimens for 28 day testing. Number of samples to be taken from Table 503.051. | Yes  No  N/A | S | SE |  |  |  | Test report |
| **3.0 Conformance check** | | | | | | | | | | |
| 3.1 | Finish | IFC Drawings | Confirm finish is in accordance with IFC Drawings and specification. | Yes  No  N/A | S | SS |  |  |  |  |
| 3.2 | Visual Inspection | IFC Drawings | Do not cover or conceal work until it has been inspected by Symal. | Yes  No  N/A | H | SE |  |  |  |  |
| 3.3 | Concrete testing | IFC Drawings | Confirm specified compressive strength has been achieved | Specified strength: \_\_\_\_\_\_\_\_MPa  Result achieved (28 days): \_\_\_\_\_MPa | H | SE |  |  |  |  |
| 3.4 | As-Builts | IFC Drawings | As-built survey of work lot attached.  All points within tolerance. | Yes  No  N/A | H | SE |  | H |  | As-Built attached |

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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 | | |  | |
| **Lot acceptance:** | | | | | | | | |
| Symal Infrastructure representative name | |  | | |  | Client representative name | |  |
| Symal Infrastructure representative signature | |  | | |  | Client representative signature | |  |

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

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