| **Client** | | TfNSW | | | **ITP CHECKLIST FOR:**  **Concrete Structures (B80)** | **Work Area:** | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Contract No. #** | | 21.0000302514.0004 | | | Choose an item. | |
| **Workplace Name** | | Badgerys Creek Road Area and Aerotropolis Access Road | | | ITC 0XX | |
| **Approval by** | | TfNSW | | | Rev 0 | |
| **Lot No** | |  | | | **Underlying Lots:** | |
| Activity No.# | Description | | Requirements / Reference | Acceptance Criteria | | Inspection | Comments / Attachments |
| 1 | **Mix Design** | | B80 Cl 3.9.1, B80 Cl 3.9.3 | **HP:** Concrete mix design submitted at least 4 weeks prior to its use – submit either mix design details as per B80 Cl 3.9.3, or nominate a mix design from the Register of TfNSW Concrete Mixes | |  | * **HOLD POINT: \_\_\_\_\_\_\_** |
| 2 | **Formwork Certification** | | B80 Cl 5.2.3, Table B80.11, B80 Cl 5.3 | **HP:** Formwork documentation and design certification submitted for category B and C formwork components as per below:  Category A – Low risk, heights less than 3m (Hold Point not required)  Category B – Moderate risk, 3m < heights < 6m (Submit Hold Point prior to placement of reinforcement)  Category C – High risk, heights >6m (Submit Hold Point prior to erection of formwork) | |  | * **HOLD POINT: \_\_\_\_\_\_\_** |
| 2 | **Formwork Certification** | |  | **WP:** Production of a test member to demonstrate the suitability of a concrete mix for the works, where required under Clause 3.7, or if specified in Annexure B80/A4 or on the project drawings (if applicable) | |  | * **WITNESS POINT: \_\_\_\_\_\_\_** |
| 3 | **Formwork Erection** | | B80 Cl 7.4 | * All foreign matter e.g. dirt, wood chips, concrete, tie wire etc removed prior to placement   Formwork within tolerances specified in Table B80.18 | |  |  |
| 4 | **Reinforcement** | | B80 Cl 6.7.3, B80 Cl 6.4.2, B80 Cl 6.5 | * **WP:** Assembly, lifting and transport of prefabricated reinforcement cages (if applicable) * Lapped bar splices not shown on drawings conform to B80 Clause 6.4.2   Mesh splices must be made so that the two outermost transverse wires of one sheet of fabric overlap the two outermost wires of the sheet being lapped. | |  | * **WITNESS POINT \_\_\_\_\_\_\_** |
| 5 | **Delivery** | | B80 Cl 7.5.1, B80 Cl 7.5.2, B80 Cl 4.4.2, B80 Cl 4.4.4, B80 Cl 4.4, B80 Cl 4.6 | **HP:** Submission of checklists for verifying conformity of the nominated concrete mix, formwork, reinforcement and embedments for precast concrete members cast off site (if applicable) | |  | * **HOLD POINT \_\_\_\_\_\_\_** |
| 5 | **Delivery** | |  | **HP:** Concrete pour details and pre pour checklist submitted to principal and approved prior to concrete pour taking place (if applicable)  Prior to discharge, concrete agitated on site for a minimum 3min in mixer   * Unless a hydration admixture is added, concrete placed & compacted within 1.5 hours from the time of batching   Do not add water to mix 45 min after batching, total quantity of water added does not exceed 9kg/m3  Slump tested and recorded immediately prior to discharge  Concrete temperature at discharge between 5°C and 35°C | |  | * **HOLD POINT \_\_\_\_\_\_\_** |
| 6 | **Placement** | | B80 Cl 7.2.3, B80 Cl 7.3 | **HP:** At least two weeks prior to the first concrete pour, submit to the principal the names of the personnel who will be involved in the concreting works, which of these persons hold a TfNSW Bridgeworks Concreting Grey Card, and corresponding evidence of this. At least four hours prior to pouring concrete, submit a statement stating that at least half of the involved concreting personnel hold a Grey Card | |  | * **HOLD POINT \_\_\_\_\_\_\_** |
| 6 | **Placement** | |  | Vibration applied to full depth of each layer, extending 100mm into previous layer   * Number of vibrators not less than one for each 10m³ placed per hour, with a min of 2. One spare vibrator per 4 vibrators   Vibrator left in place until air bubbles cease breaking the surface  Concrete placed in air temperature range 5°C-38°C  All batches slump tested  Compressive strength tests, 1 set per each 25m3 | |  | * Concrete Pour Docket * Concrete Test Records * Survey Report (if applicable) |
| 7 | **Formwork Removal and Early Trafficking** | | B80 Cl 9.9, B80 Cl 5.9.2, Table B80.12, B80 Cl 5.10, B80 Cl 8.4.1 | * **HP:** Early trafficking of concrete bridge deck prior to curing (if applicable) * Remove formwork in such a way and such a time as to achieve the specified characteristics:  1. Vertical surfaces 15MPa 2. Underside of horizontal surfaces 80% of Fc.min(s)  * If formwork is stripped prior to curing is complete, apply a curing compound or wet cure the area for the remainder of the curing period | |  | * **HOLD POINT \_\_\_\_\_\_\_** |

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| **REVIEW** | | | | | | |
| Any non-conformances? | YES | NO | Nos: | Closed Out | YES | NO |
| All work has been satisfactorily completed | | | YES | | NO | |
| Name | | | Signature | | Date | |
| **QA ENGINEER / SPE / PE SIGN OFF** | | | | | | |
| Name | | | Signature | | Date | |