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|  | |  | |  | | INSPECTION AND TEST PLAN | | ITP no: | | Z1-SR-PAV | | |
| | | | | | | Project: NZTA 5363 CIP SH30 Te Ngae Road Corridor-Iles Rd to Coulter Rd | | Associated Docs | | | | |
| | | | | | | Construction Process: Side Road Pavement | | Rev number: | | V1 | | |
| Client: NZTA | | Head Contractor | | Subcontractor | | Specification: 600 - Pavement | | | | | | |
| Item | Task/Activity/Description | Inspection/Test | | | | Acceptance Criteria | Record Document | Responsibility | Comments | Checked by | | |
| | | Detail of Activity | Action (Hold, Monitor, Witness) | Minimum Test Frequency (Lot = 1 day's production or 2,500m2) | Inspection / Test method | | | | | Engineer | Contractor | Date |
| 600 | Pre-construction / Preliminary Compliance Requirements | | | | | | | | | | | |
| 600.1 | Method Statement Development / Job Safety Analysis / Enviro Site Specific Plans | | H | Prior to Construction | | Method Statement and JSEA Completed and signed by relevant authority | | Downer | | | | |
| 600.2 | Drawings and Specification | | H | Prior to Construction | | DWG's and Specifications are of For Construction and latest revision. Reviewed and approved by Designer and Client. | | Downer | | | | |
| 600.3 | Set out | | H | Prior to Construction | | Set out as per latest Design Model / For Construction Drawings. | | Designer | | | | |
| 600.4 | Material Approvals | Submit testing data for the following materials: - AP65 | H | Prior to Construction | Quarry Testing Data | Material approvals to be sent to the Engineer. Refer Project Specs and Drawings; • AP65: o Crushing Resistance < 100kN o Weathering Quality Index of A,AB, AC, BA, BB or CA o Sand Equivalent ≥ 25 if > 4% passing 75um sieve o CBR minimum 40 using heavy compaction o Grading | | Designer | | | | |
| 600.5 | Material Approvals | Submit testing data for the following materials: - AP40 | H | Prior to Construction | Quarry Testing Data | Material approvals to be sent to the Engineer. Refer Project Specs and Drawings; • AP40: o Crushing Resistance : <10% fines passing 2.36mm under 130 KN load o Weathering Quality Index of AA,AB, AC, BA, BB or CA o Sand Equivalent ≥ 40 o Soaked CBR ≥ 80% o Solid Density > report value only o Determination of MDD & OWC > report value only o Broken Face Content : each of the three aggregate fractions between the 37.5mm and 4.75mm sieves shall not be less than 70% by weight and shall have two or more broken faces o Particle size distribution / Grading 100% passing 37.5mm 66 - 81% passing 19mm 43 - 57 passing 9.5mm 28 - 43 passing 4.75mm 19 - 33 passing 2.36mm 12 - 25 passing 1.18mm 7 - 19 passing 600µm 3 - 14 Passing 300µm 0 - 10 passing 150µm 0 - 7 passing 75µm Plasticity Index : Basecourse passing the 425µm sieve shall not be greater than 5 when the aggregate is tested according to NZS 4407 : 1991, Test 3.4 Plasticity Index Test. Clay Index : Basecourse passing the 75µm sieve shall not be greater than 3 when the aggregate is tested according to NZS 4407: 1991 | | Designer | | | | |
| 600.6 | Identification of Underground Services | | H | Prior To Construction | | Ensure underground services are positively identified and asbuilt. Where this interferes with design permanent works, Service provider and Designer to be notified immediately. | InEight Records | Contractor | | | | |

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|    | | INSPECTION AND TEST PLAN Project: NZTA 5363 CIP SH30 Te Ngae Road Corridor-Iles Rd to Coulter Rd Construction Process: Side Road Pavement | | | | ITP no: _____ Associated Docs: _____ Rev number: _____ | | Z1-SR-PAV V1 | |
| Client: NZTA | | Head Contractor | | Subcontractor | | Specification: 600 - Pavement | | | |

| Item | Task/Activity/Description | Inspection/Test | | | | Acceptance Criteria | Record Document | Responsibility | Comments | Checked by | | |
|-------------------------|-----------------------------|---------------------------|---------------------------------|---|--|---|-------------------------|----------------|---|------------|------------|------|
| | | Detail of Activity | Action (Hold, Monitor, Witness) | Minimum Test Frequency (Lot = 1 day's production or 2,500m ²) | Inspection / Test method | | | | | Engineer | Contractor | Date |
| Subgrade Construction | | | | | | | | | | | | |
| 600.7 | Subgrade Inspection | Subgrade Levels | M | 20m centres | Visual Inspection | Cut subgrade to 355mm below finished level. String line tolerance to be within +0mm/-30mm (i.e. 0mm high, 30mm deep) | QC Sheets | Contractor | | | | |
| 600.8 | | Bearing Strength | H | Inferred CBR, 5 tests per 500m ² 1 per 20m | Scala Panatrometer | Scala (bearing Strength on insitu subgrade) to depth 500mm, with the following requirement to be achieved:≥ 3 blows per 100mm - no undercut 2-3 blows per 100mm - 200mm 1-2 blows per 100mm - 275mm <1 blow per 100mm - 500mm undercut | QC Sheets (Scala Sheet) | Contractor | Scala results to meet or exceed per below: 0mm - 100mm - ≥ 3 blows per 100mm 100mm - 200mm - ≥ 2 blows per 100mm 200mm - 300mm - ≥ 2 blows per 100mm 300mm - 400mm - ≥ 1 blow per 100mm 400mm - 500mm - ≥ 1 blow per 100mm | | | |
| 600.9 | | Proof Roll | H | One per lot | Visual Inspection | Proof roll – Check for uniformity, soft areas to be undercut 200mm and backfilled with recycled pavement, AP40 Hardfill or AP65. | (Scala Sheet) | Contractor | | | | |
| Subbase Construction | | | | | | | | | | | | |
| 600.10 | Finished Level | String line or equivalent | H | 20m centres each side | Stringline, tape measure | Layer Finished Level – String Line, each lane, Tolerance: +5mm/-25mm | QC Sheets | Contractor | | | | |
| 600.11 | Compaction | Basecourse Compaction | M | Direct Transmission NDM (1 per 200m ²) | NDM | Mean ≥ 95% MDD, Min ≥92% | QC Sheets | Contractor | | | | |
| Basecourse Construction | | | | | | | | | | | | |
| 600.12 | Finished Level | String line or equivalent | H | 20m centres each side | Stringline, tape measure | Layer Finished Level – String Line, each lane, Tolerance: +15mm/-5mm | QC Sheets | Contractor | | | | |
| 600.13 | Compaction | Basecourse Compaction | M | Direct Transmission NDM (1 per 200m ²) | NDM | Mean ≥ 98% MDD, Min ≥95% | QC Sheets | Contractor | | | | |
| 600.14 | Degree of Saturation | Basecourse Compaction | M | Direct Transmission NDM (1 per 200m ²) | NDM | < 60% (or 80% on consultation with the pavement designer) | QC Sheets | Contractor | | | | |
| Close Out | | | | | | | | | | | | |
| 600.15 | Collate above documentation | Document review | H | Each ITP | Review | | N/A | Contractor | | | | |
| 600.16 | As-built drawings | Survey | H | At completion of construction | Asbuilts to be submitted at the completion of construction | -As-built to be submitted at the completion of construction -Information to be captured: -Maintain Redline drawings through works. | N/A | Contractor | | | | |
| 600.17 | RAMM Data | | H | | Info to be submitted by the completion of project construction | -Information to be captured: | N/A | Contractor | | | | |

Client Final Inspection - the signature below verifies that this ITP has been completed in accordance with NZTA Specifications and verifies lot compliance.

 Contractor's Rep Name: _____

 BBO Engineers Rep Name: _____

Date: _____

 Date: _____

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|---|---------------|
| H | Hold Point |
| W | Witness Point |
| M | Monitor Point |