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| ITP Number | ITP-1 | Rev 5 |
| ITP prepared by | Mark Geschke | 30-08-2022 |
| ITP reviewed CYP |  |  |



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| INSPECTION TEST PLAN |

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| Project: | CYP Domain Station St Kilda Road |
| Service: | Main Civil Works Drainage |
| Subcontractor: | DELTA GROUP - GESCHKE PTY LTD (“GPL”) |

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| **PROJECT INSPECTION TEST PLAN REQUIREMENTS:** | |
| **Hold Point:** | Works under the contract are not permitted to progress beyond a Hold Point. |
| **Witness Point:** | A Witness Point is a nominated point in the design, and construction process at which the appointed inspector or approver under this ITP may review, witness, inspect the item in question |
| **Records:** | All records are to be available on site in hard-copy format for QA audits by the Contractor, and in electronic scanned copies (PDF format). |

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| **Work Lot Number** |  | | | |
| **Drawing Reference** |  | | | |
|  | | **Pit number** | **Pit number** | **Pipe size** |
| **Pit to Pit reference** | |  |  |  |

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| **PROJECT KEY PERSONEL:** |
| Contractor Authorised Representative |
| Subcontractor Authorised Representative |
| Engineer |
| Foreman |

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| **PROJECT:** | The works covered by this Inspection Test Plan are as presented in the Infrastructure Works Subcontract, on the drawings and within this Inspection Test Plan. This Inspection Test Plan is to be read in conjunction with drawing and specification recommendations.  Geschke plumbing have been contracted to construct stormwater drainage as part of Delta Group scope of works. |
| **SCOPE:** | Construction of stormwater drainage including; stormwater pipe work, pits & GPTs |

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| Ref | Description of Inspection/Test/Approval | Stage/Frequency | Records | Specification/Standard | Acceptance Criteria | Inspection/Test Procedure | Hold or Witness Point | Geschke  Sign off | Delta  Sign off | CYP  Sign off | Yarra Trams Sign Off |
| 5.01 | Check Set out | Prior to commencement | N/a | Latest drawing available | - Set-out of pits is marked with pegs and alignment matches construction drawings.  Where applicable a 3m 1m offset to be pegged.  - Datum point is marked in accessible area by Delta Surveyor. | N/a | witness |  |  |  |  |
| 5.02 | Pipe work Materials | Prior to commencement | Delivery Dockets by Delta | N/a | Ensure pipe work is ready and client delivers pipe work to work zone | N/a | witness |  |  |  |  |
| 5.03 | Pre-Cast Pits | Combination of precast | Shop Cards for reference | Relevant council specification and guidelines Vic Roads 705 | -Installed where Delta set out intended. | N/a | witness |  |  |  |  |
| 5.04 | Check below ground pipework, pipe bedding - rubber ring joints & Haunching | This is not signed off based on duration. It will be signed off with a highlighted mark-up detailing what this ITP covers.  This will be at the discretion of site foreman. | N/a | Bedding to be crush rock 20mm as per Vic Roads 701 | - No rubber joint visible on visual inspection.  -Haunching holding pipe straight and true.  -Ensure SW pipe and pits are laid with accordance to construction drawings & quality of work is up to standard.  -Visually check the bottom of the trench before installing stormwater pipe. | Prior to backfill looking up pipe to ensure installation completed to a satisfactory standard. | witness |  |  |  |  |
| 5.05 | Backfill of material | This is not signed off based on duration. It will be signed off with a highlighted mark-up detailing what this ITP covers.  This will be at the discretion of site foreman. | Refer material approvals, refer to material delivery dockets | Compaction in layers as per industry standards and Vic Roads 701.09 (d) backfill of material | -Compaction in layers with mechanical compaction equipment. Eg, Wacker Packer (jumping jacks) & DPU vibrating plates.  -GPL using project approved material | To be monitored during by site foreman | witness |  |  |  |  |
| 5.06 | Testing of backfill material | One test per 1000 tonnes or part thereof as per  701 vic roads standard | Test report by Geotech advisor | As required based on zone of install in line with council guidelines. | -Visual inspection at time and agreed if suitable for test.  -Test report when available final sign off. | Test to be completed by qualified/ registered Geotechnical Lab eg: Terra Firma | witness |  |  |  |  |

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| 5.07 | Poured Insitu Pits | Each pit | Photos of install prior to pour | Relevant authority construction details | Visual inspection and acceptance pit has been constructed as per the detail | Prior to Pour | witness |  |  |  |  |
| 5.08 | Haunch base of pit | Each pit | Photos of base of bit | Relevant authority construction details | Visual Inspection – Photos | Photos | witness |  |  |  |  |
| 5.09 | Pipe bandages around external connection of pit to pit, and internal final patch of pipe to pit. | Each pit | Photos of external and internal pit walls | Relevant authority construction details | Visual Inspection – Photos | Photos | witness |  |  |  |  |
| 5.10 | CCTV | All drainage lines constructed shall be inspected, via CCTV for internal review of joints | CCTV video to be submitted | Joints are installed within the manufacture and 701 tolerances. | -Sign off after vision is viewed.  This could be viewed on site during other sign off’s | CCTV | witness |  |  |  |  |
| 5.11 | Final As-Built | As required to get accurate as built information, typically pit to pit post installation. | As Built | N/a | -Show line, grade and position of pipework and pits. | -As Built Provided by Delta | witness |  |  |  |  |

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| **FINAL SIGN OFF** |

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| Company | Name | Title | Signature | Final Comments | Date |
| Description: geschke logo may 2008.jpg |  |  |  |  |  |
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