| **INSPECTION AND TEST CHECKLIST FOR:**  **Trench Drains (R33)** |
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| Activity No.# | Description | Requirements / Reference | | Acceptance Criteria | | | | | | | Comments / Attachments / Records | | | | Engineer Signoff | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | **Safety Review** | Project Safety Plan | | * All site personnel inducted (includes environment and cultural) * Required Safe Work Method Statements completed and signed * Subcontractor’s safety plan/procedure approved | | | | | | |  | | | |  | |
| 2 | **Environment** | Project Environment Plan  G36 CL 3.1  G38, G40 | | * Installation of soil erosion and sedimentation controls completed in accordance with ESC Plan and EMP, as well as Specification TfNSW G38 * All work undertaken under this Specification must be approved by the Environmental Site Representative (refer TfNSW G36) and comply with Abergeldie’s CEMS and CEMP | | | | | | |  | | | |  | |
| 3 | **Materials** | R33 Cl 2 | | For each type of material, submit to the Principal the brand, the name of the supplier and compliance records at least seven days prior to their use on site  Corrugated plastic drainage pipe must comply with TfNSW 3552; seamless tubular filter fabric for use with corrugated pipe must comply with TfNSW 3553; rigid strip filter must comply with TfNSW 3556  Geotextile must comply with Specification TfNSW R63. Geotextile for wrapping around rigid strip filter drain must be non-woven geotextile with Strength Class A  Filter material *must* be either aggregate filter material or no fines concrete *as shown on the Drawings*. Aggregate filter material must comply with TfNSW 3580 and *the* *Drawings* for the aggregate type. No fines concrete must be Grade NFC SD and comply with TfNSW 3222.  Aggregate filter material of any size may be substituted with approved no fines concrete  Selected Material (SMZ) must meet the requirements of Specification TfNSW R44.   * Selected Fill Material for the plug used in staged construction must meet the requirements of specification TfNSW R44 and have a maximum particle size not exceeding 20mm and Plasticity Index not exceeding 12. | | | | | | | * Material compliance documentation | | | |  | |
| 4 | **Approval of No Fines Concrete** | TfNSW 3222  R53 Cl 2.4.3 | | **HOLD POINT: Use of no fines concrete in the works (if specified)**   * Provide mix design documentation for a TfNSW-approved no fines concrete for use in the works | | | | | | |  | | | |  | |
| 5 | **Backfilling** | R33 Cl 3.5 | | Backfill trenches with filter material to the level shown on the Drawing. Drains under road pavement must be backfilled with no fines concrete.  Compact the filter material to limit any post-construction consolidation and provide an even, finished surface. Compact and place filter material using shovels or excavator buckets. If using no fines concrete, limit the distance the material travels into the trench to minimise risk of segregation. Do not compact filter material by lancing stakes or pickets into the material, as this has a high likelihood of damaging the subsoil line within  Where no fines concrete is used, implement measures to prevent segregation of the mix or formation of a slurry layer on the finish surface   * **HOLD POINT: Backfilling over the drainage pipe in the trench with filter material.** Provide verification to the Principal that pipe laying, jointing and bedding are complete and conforming, prior to backfilling the works | | | | | | |  | | | |  | |
| 6 | **Marking of Trench Drains** | R33 Cl 6 | | During construction works, physically mark out the locations of all inlets (or starts where there are no distinct inlets) and outlets of all subsurface drains, such to avoid damage to them during construction  On the Works-As Executed (WAE) drawings of the completed drainage system, mark the GPS coordinates of the start and finish positions of the subsurface drains.   * Submit these drawings to the Principal within 28 days of completion of the subsurface drainage work. The GPS coordinates must be in WGS 84 format | | | | | | | * WAE drawings showing the start and finish positions of each line | | | |  | |
| **REVIEW BY PROJECT ENGINEER** | | | | | | | | | | | | | | | | |
| Any non-conformances? | | | YES | | NO | | Nos: | | | Closed Out | | | YES | | | NO |
| Other QA details – NCRs, CARs, Identified Records etc | | |  | | | | | | | | | | | | | |
| All work has been satisfactorily completed | | | | | | YES | | | NO | | | | | | | |
| Name | | | | | | | | Signature | | | | Date | |  | | |