**NOTES**

1. For General Arrangement of Floodway refer to MBRC – 1109.
2. Road surface for drainage and approaches to be 300mm thick reinforced concrete with 50%2 mesh (76mm bottom cover) with construction joints at 5m centres (max) or otherwise shown. Concrete to be NZ2 cured for 7 days where a side road is constructed or NS5 cured for 12 hours where a side road is not constructed.
3. Culvert crossing to be reconstructed to match existing levels. Closed and slotted bed base where required.
4. Riprap and rock pitching to utilise existing material on site where possible. Riprap to be selected angular rocks well graded D80 D500mm rocks placed 450mm deep. Area, size and location to be determined on site by the site superintendent.
5. Batter treatment, culvert headwall and apron to be keyed 600mm into creek bed. Batter to be designed to match existing creek channel.
6. Rock pitching to batter and pipe surround, shape pitching to match existing flow channel capacity. Precast headwalls or concrete cast in situ 150mm thick (norm) may also be used.
7. Rock pitching order of work:
   - Place geotextile and insert apron ends 600mm into natural material.
   - Place rock/bond on geotextile.
   - Apply concrete to rock surfaces and crevices.
   - Wash slurry from rock surfaces.
8. Geotextile to be non-woven 50%2 A24 or equivalent meeting strength and permeability requirements.
9. Select fill to be norm. Class 2.5 material) compacted to 100% standard (one (1) test each side of culvert).
10. Install 150mm high wheel stops to downstream side of roadway only across causeway or 1.0m spacing.
11. End Treatment options: a) Stone Pitching. b) Reinforced concrete 150mm thick SU2. c) Slipped 600mm headwall. d) Extend pipes and cut off at an angle to match existing batter slope.

**STANDARD DRAWINGS**

**FLOODWAY - DETAILS LOW VOLUME RURAL ROADS**

Sheet 2 of 2