**APPLICATION NOTES:**

A. The primary purpose of a check dam is to reduce erosion in a channel by reducing flow velocity in the channel.

B. Check dams will capture sediment that falls out of suspension behind the check dam due to decreased velocity.

C. Check dams are not intended to, and will not filter sediment from turbid water.

D. Prefabricated and Silt Check dams are not to be used on slopes greater than 5%.

**NOTES:**

1. The small end of the apron for the prefabricated check dam shall be stapled to geotextile as shown in Details, as to be recommended by the manufacturers literature. Cost for excavation for installation shall be included in price bid for item.

2. Drainage area: maximum drainage area tributary to silt fence check dam shall be 0.4 ha. Maximum drainage area tributary to prefabricated check dam shall be 0.2 ha.

3. Scour protection shall be 75 mm coarse aggregate meeting the requirements of size designation 1 or 2 of Table 703-4.

4. Posts may be of laminated hardwood, 38x89 (minimum) softwood, or 2 kg/m (minimum) steel. Additional posts are required at the outer edges of ditch width.

5. The bottom edge of silt fence shall be buried a minimum of 150 mm. The fence shall be installed with the posts on the downstream side of the fabric.

6. Approved silt fence geotextiles are listed on the Department's approved list. Silt fence geotextile shall be a single continuous piece to eliminate joints.

7. Wire mesh reinforcement is required for all silt fence check dams regardless of indications on approved list. Silt fence geotextile for check dams shall be extended to reinforcement by a minimum distance of 600 mm.

8. Measures shall be inspected every seven (7) calendar days, after each rainfall of 10 mm or more, after 16h time period, or daily during prolonged rainfall. Measures shall be checked and repaired as required.

9. Sediment shall be removed when accumulation reaches one-half of the measure height. Sediment shall be disposed of as unsuitable material.

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