

MATERIALS

AGGREGATE: 15 TO 25mm CRUSHED ROCK.

MESH: WIRE MESH WITH 6 TO 12mm OPEN GRID, BUT WITH AN OPEN MESH SIZE NO GREATER THAN 75% OF THE NOMINAL AGGREGATE SIZE.

STAKES/POSTS: MINIMUM 1500mm² (MIN) HARDWOOD, 2500mm² (MIN) SOFTWOOD, OR 1.5kg/m (MIN) STEEL STAR PICKETS.

FILTER CLOTH: BIDIM A44 (MIN) OR THE EQUIVALENT.

INSTALLATION

1. REFER TO APPROVED PLANS FOR LOCATION AND DIMENSIONAL DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.

2. ENSURE THAT THE INSTALLATION OF THE SEDIMENT TRAP WILL NOT CAUSE UNDESIRABLE SAFETY OR FLOODING ISSUES.

3. WHERE POSSIBLE, EXCAVATE A 200x200mm TRENCH AROUND THE INLET STRUCTURE.

4. CUT WIRE MESH FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS.

5. SPACE STAKES EVENLY AROUND THE PERIMETER OF THE STORMWATER INLET AT A MAXIMUM 600mm SPACING AND SECURELY DRIVE THEM INTO THE GROUND.

6. CUT THE MESH FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS.

7. PLACE THE BOTTOM 300mm OF WIRE MESH IN THE EXCAVATED TRENCH AND BACKFILL THE TRENCH WITH AT LEAST 200mm OF AGGREGATE OR COMPACTED SOIL. IF A TRENCH CANNOT BE EXCAVATED, LAY THE BOTTOM 300mm OF WIRE MESH EVENLY ON THE GROUND SURFACE.

8. SECURELY FASTEN THE WEIR MESH TO THE STAKES. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.

9. WHERE SPECIFIED, COVER THE WIRE MESH (TO THE PLANNED HEIGHT OF THE AGGREGATE FILTER) WITH HEAVY-DUTY FILTER CLOTH.

10. PLACE THE AGGREGATE FILTER AGAINST THE WEIR MESH TO THE SPECIFIED MAXIMUM HEIGHT (NO GREATER THAN 600mm) AND AT A BATTER SLOPE NO STEEPER THAN 2:1(H:V).

11. ENSURE THE MAXIMUM POND ELEVATION WILL NOT CAUSE A SAFETY HAZARD, INCLUDING UNDESIRABLE FLOODING OF AN ADJACENT PROPERTY OR ROADWAY.

12. WHERE NECESSARY, ESTABLISH A FLOW CONTROL BUND(S) TO APPROPRIATELY MANAGE THE SETTLING POND DEPTH AND MOVEMENT OF BYPASS FLOWS.

13. IF SPECIFIED, EXCAVATED A SEDIMENT COLLECTION TRENCH AROUND THE STRUCTURE.

14. TAKE ALL NECESSARY MEASURE TO MINIMISE THE SAFETY RISK CAUSED BY THE STRUCTURE AND TO PREVENT UNSAFE ENTRY INTO THE STORMWATER INLET.

MAINTENANCE

1. INSPECT THE SEDIMENT TRAP AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT AND MAKE REPAIRS AS NEEDED TO THE SEDIMENT TRAP AND ASSOCIATED FLOW CONTROL BUNDS.

2. REMOVE COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

3. SEDIMENT DEPOSITS SHOULD BE REMOVED IMMEDIATELY IF THEY REPRESENT A SAFETY RISK.

REMOVAL

1. WHEN THE UP-SLOPE DRAINAGE AREA HAS BEEN STABILISED, REMOVE ALL MATERIALS INCLUDED DEPOSITED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

2. BRING THE DISTURBED AREA TO A PROPER GRADE, THEN SMOOTH, COMPACT AND STABILISE AND/OR REVEGETATE AS REQUIRED.

Drawn: GMW	Date: Apr-10	Mesh and Aggregate Drop Inlet Protection	MA-02
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