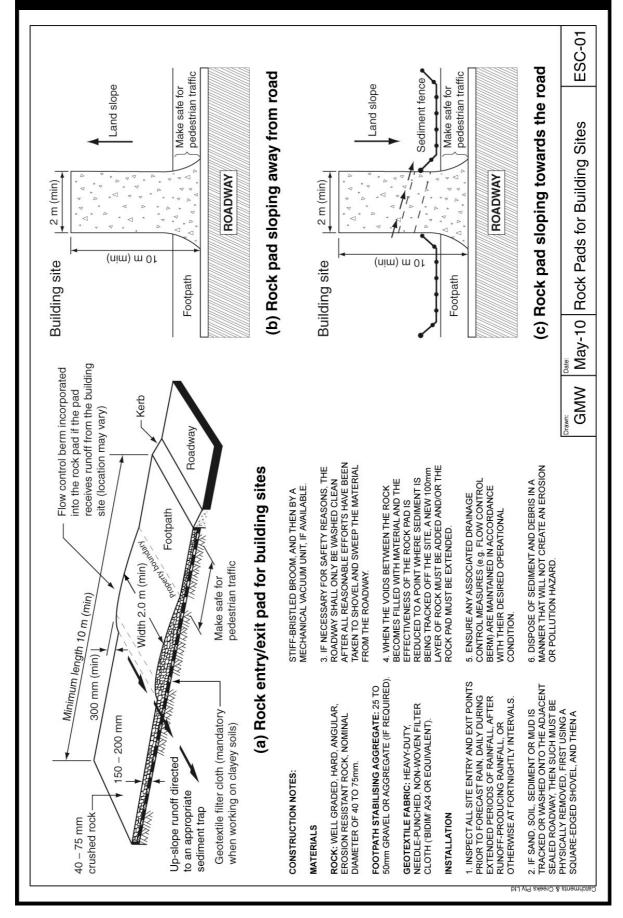
Building Sites Part 4: Standard Drawings

MISCELLANEOUS TOPICS



MATERIALS

NON-WOVEN FILTER CLOTH ('BIDIM' FABRIC (LIGHT TRAFFIC AREAS): HEAVY-DUTY, NEEDLE-PUNCHED 434 OR EQUIVALENT).

ULTRAVIOLET STABILITY EXCEEDING EAST 700mm, WITH A MINIMUM UNIT NON-WOVEN REINFORCED FABRIC PROVIDE A MINIMUM OF 6 MONTHS OF USEABLE CONSTRUCTION LIFE THE FABRIC WIDTH SHOULD BE AT FABRIC (HEAVY TRAFFIC AREAS): INHIBITORS AND STABILISERS TO SHOULD CONTAIN ULTRAVIOLET POLY-PROPYLENE, POLYAMIDE, WEIGHT OF 140g/m². FABRICS POLYETHYLENE WOVEN OR NYLON, POLYESTER, OR

NSTALLATION

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

ENSURE THAT THE INSTALLATION OF THE SEDIMENT TRAP WILL NOT CAUSE UNDESIRABLE SAFETY OR FLOODING ISSUES. 3. SELECT THE APPROPRIATE FABRIC FOR THE SITE CONDITIONS.

THE STORMWATER INLET WITHOUT PREVENTS ANY WATER ENTERING 4. WRAP THE FABRIC AROUND OR PASSING THROUGH THE FABRIC. GRATE IN SUCH A MANNER THAT OVER THE STORMWATER INLET

ENSURE ALL OTHER FLOW ENTRY POINTS ARE COVERED WITH FABRIC SUCH THAT WATER CANNOT ENTER THE STORMWATER INLET WITHOUT PASSING THROUGH A SUITABLE FILTER

RISK CAUSED BY OPERATION OF THE TO MINIMISE SAFETY OR FLOODING TAKE ALL NECESSARY MEASURE SEDIMENT TRAP.

MAINTENANCE

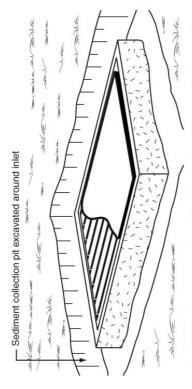
RAINFALL EVENT AND MAKE REPAIRS AS NEEDED TO THE SEDIMENT TRAP. 1. INSPECT THE BARRIER AFTER EACH RUNOFF-PRODUCING

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

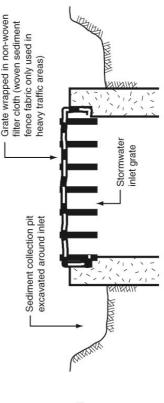
3. REPLACE THE FABRIC IF IT IS TORN OR DAMAGED.

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

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



(a) Fabric wrap drop inlet protection with trench



(b) Typical details of excavated sediment collection trench

GMW

May-10

Grated Stormwater (Field) Inlet Sediment Trap

MATERIALS

MANUFACTURED FROM NON-WOVEN OR SYNTHETIC OR BIODEGRADABLE TUBES COMPOSITE FABRIC SUITABLE FOR THE FILL MATERIAL: STRAW, CANE MULCH, FILTRATION' OF COARSE SEDIMENTS. SOCKS: MINIMUM 200mm DIAMETER COMPOSTED MATERIAL (AS4454),

COARSE SAND, OR CLEAN AGGREGATE.

STAKES: MINIMUM 25 x 25mm TIMBER.

INSTALLATION

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

INDIVIDUALLY OR COLLECTIVELY (AS A SINGLE SEDIMENT TRAP) SUCH THAT: (i) LEAKAGE AROUND OR UNDER THE ENSURE THE SOCKS ARE PLACED BUTTED OR OVERLAPPED AT LEAST (ii) ADJOINING SOCKS ARE TIGHTLY SOCKS IS MINIMISED 450mm;

FORMED POND BEFORE FLOWING OVER (iii) THE SURFACE AREA OF POTENTIAL WATER PONDING UP-SLOPE OF EACH (iv) TO THE MAXIMUM DEGREE PRACTICAL, ALL SEDIMENT-LADEN WATER WILL PASS THROUGH THE SEDIMENT TRAP IS MAXIMISED; THE DOWN-SLOPE END OF THE SEDIMENT TRAP.

OF MINOR DRAINS, ENSURE THE SOCKS WHEN PLACED ACROSS THE INVERT **NVERT AT THE IMMEDIATE UPSTREAM** (i) THE CREST OF THE DOWNSTREAM SOCK IS LEVEL WITH THE CHANNEL ARE PLACED SUCH THAT: SOCK (IF ANY);

(ii) EACH SOCK EXTENDS UP THE CREST CHANNEL BANKS SUCH THAT THE CREST OF THE SOCK AT ITS LOWEST POINT IS LOWER THAN GROUND LEVEL AT EITHER END OF THE SOCK

AND SWEEP THE MATERIAL FROM THE

SURFACE

A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION

HAZARD

4. IF STAKES ARE REQUIRED TO ANCHOR THE SOCKS, THEIR SPACING DOES NOT ESSER). A MAXIMUM STAKE SPACING OF SOCK DIAMETER (WHICHEVER IS THE 0.3m APPLIES WHEN USED TO FORM **EXCEEDING 1.2m OR SIX TIMES THE** CHECK DAMS.

MAINTENANCE

PRODUCING STORMS OR OTHERWISE AT 1. INSPECT ALL FILTER SOCKS PRIOR TO EXTENDED PERIODS OF RAINFALL, FORECAST RAIN, DAILY DURING AFTER SIGNIFICANT RUNOFF WEEKLY INTERVALS.

REPAIR OR REPLACE DAMAGED SOCKS.

COLLECTED BEHIND THE FILTER SOCKS SHOULD BE REMOVED BY SHOVEL AFTER 3. THE BULK OF THE SEDIMENT EACH STORM EVENT

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

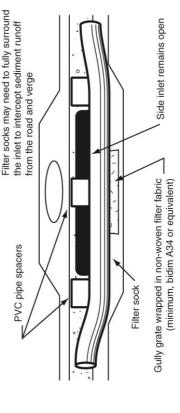
REMOVAL

STIFF-BRISTLED BROOM, AND THEN BY A MUST BE PHYSICALLY REMOVED FROM SQUARE-EDGED SHOVEL, AND THEN A 1. ALL SAND, SOIL, SEDIMENT OR MUD SEALED SURFACES, FIRST USING A MECHANICAL VACUUM UNIT, IF AVAILABLE. IF NECESSARY FOR SAFETY REASONS, THE SEALED SURFACE SHALL ONLY BE

OTHER NON READILY BIODEGRADABLE MATERIAL MUST BE REMOVED FROM THE DETERIORATED TO A POINT WHERE THEY ALL SYNTHETIC (PLASTIC) MESH OR SITE ONCE THE SLOPE OR DRAIN IS ARE NO LONGER PROVIDING THEIR INTENDED DRAINAGE OR SEDIMENT STABILISED, OR THE SOCKS HAVE CONTROL FUNCTION WASHED CLEAN AFTER ALL REASONABLE \leq **EFFORTS HAVE BEEN TAKEN TO SHOVEL** 3. DISPOSE OF COLLECTED SEDIMENT

I m (max) on public roads 4.0 m (min) **Bypass flow** Filter socks overlap onto kerb Sediment buod Run-off

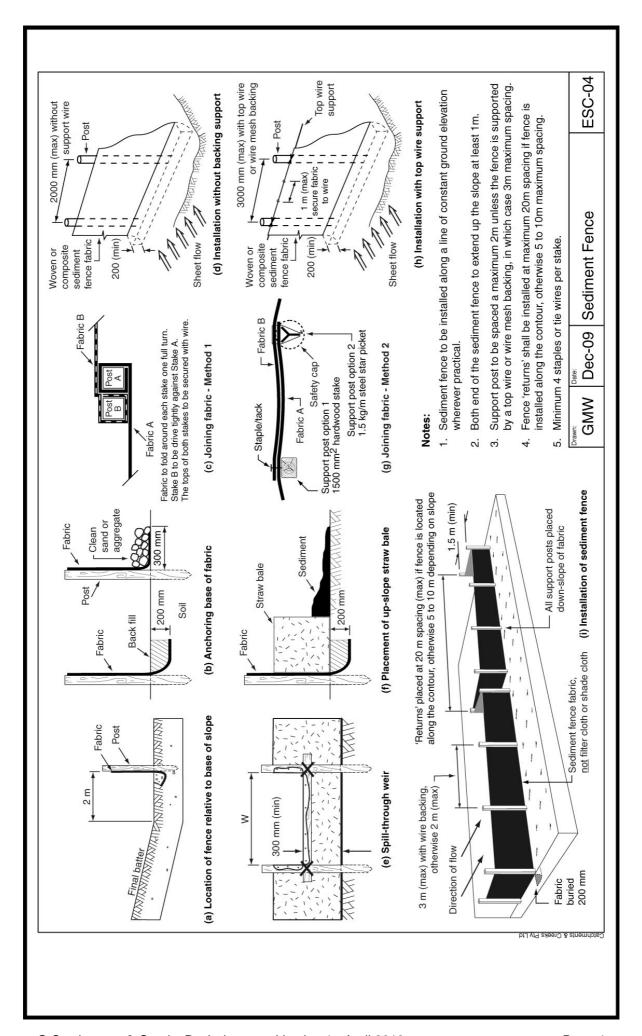
(a) On-grade kerb inlet sediment trap



Sag inlet sediment trap 9

Kerb Inlet Sediment Traps Dec-09 GMW

ESC-03



MATERIALS

700mm IN WIDTH AND A MINIMUM UNIT WEIGHT OF 140g/m². ALL FABRICS TO CONTAIN ULTRAVIOLET INHIBITORS AND STABILISERS USEABLE CONSTRUCTION LIFE (ULTRAVIOLET STABILITY EXCEEDING 70%). WOVEN OR NON-WOVEN FABRIC, AT LEAST TO PROVIDE A MINIMUM OF 6 MONTHS OF NYLON, POLYESTER, OR POLYETHYLENE FABRIC: POLYPROPYLENE, POLYAMIDE

FABRIC REINFORCEMENT: WIRE OR STEEL MESH MINIMUM 14-GAUGE WITH A MAXIMUM MESH SPACING OF 200mm.

HARDWOOD, 2500mm² (MIN) SOFTWOOD, OR 1.5kg/m (MIN) STEEL STAR PICKETS SUITABLE SUPPORT POSTS/STAKES: 1500mm² (MIN) FOR ATTACHING FABRIC

INSTALLATION

1. REFER TO APPROVED PLANS FOR LOCATION EXTENT, AND REQUIRED TYPE OF FABRIC (IF FABRIC TYPE, OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE SPECIFIED). IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, ON-SITE OFFICER FOR ASSISTANCE.

TO THE MAXIMUM DEGREE PRACTICAL, AND WHERE THE PLANS ALLOW, ENSURE THE FENCE IS LOCATED:

(ii) ALONG A LINE OF CONSTANT ELEVATION WHEREVER PRACTICAL; (i) TOTALLY WITHIN THE PROPERTY BOUNDARIES

(iii) AT LEAST 2m FROM THE TOE OF ANY FILLING OPERATIONS THAT MAY RESULT IN SHIFTING SOIL/FILL DAMAGING THE FENCE.

(i) V-SHAPED SECTION EXTENDING AT LEAST 3. INSTALL RETURNS WITHIN THE FENCE AT MAXIMUM 20m INTERVALS IF THE FENCE IS INSTALLED ALONG THE CONTOUR, OR 5 TO ii) SANDBAG OR ROCK/AGGREGATE CHECK SLOPE) IF THE FENCE IS INSTALLED AT AN ANGLE TO THE CONTOUR. THE RETURNS 10m MAXIMUM SPACING (DEPENDING ON SHALL CONSIST OF EITHER: .5m UP THE SLOPE; OR

DAM A MINIMUM 1/3 AND MAXIMUM 1/2 FENCE HEIGHT, AND EXTENDING AT LEAST 1.5m UP THE SLOPE

1.5m, OR AS NECESSARY, TO MINIMISE WATER FENCE ARE TURNED UP THE SLOPE AT LEAST 4. ENSURE THE EXTREME ENDS OF THE BYPASSING AROUND THE FENCE.

OF WATER AROUND THE ENDS OF THE FENCE CONCENTRATION OF FLOW ALONG THE FENCE, AND THE UNDESIRABLE DISCHARGE 5. ENSURE THE SEDIMENT FENCE IS INSTALLED IN A MANNER THAT AVOIDS THE

6. IF THE SEDIMENT FENCE IS TO BE INSTALLED ALONG THE EDGE OF EXISTING TREES, ENSURE CARE IS TAKEN TO PROTECT DURING INSTALLATION OF THE FENCE. DO NOT ATTACH THE FABRIC TO THE TREES. THE TREES AND THEIR ROOT SYSTEMS

TRENCH ALONG THE PROPOSED FENCE LINE. PLACING THE EXCAVATED MATERIAL ON THE EXCAVATE A 200mm WIDE BY 200mm DEEP SUPERVISOR OR THE APPROVED PLANS, 7. UNLESS DIRECTED BY THE SITE UP-SLOPE SIDE OF THE TRENCH.

THE GROUND SPACED NO GREATER THAN 3m 8. ALONG THE LOWER SIDE OF THE TRENCH, APPROPRIATELY SECURE THE STAKES INTO IF SUPPORTED BY A TOP SUPPORT WIRE OR WEIR MESH BACKING, OTHERWISE NO GREATER THAN 2m.

EXTENDING AT LEAST 200mm INTO THE EXCAVATED TRENCH. ENSURE THE MESH AND FABRIC IS ATTACHED TO THE UP-SLOPE SIDE 9. IF SPECIFIED, SECURELY ATTACH THE SUPPORT WIRE OR MESH TO THE UP-SLOPE OF THE STAKES EVEN WHEN DIRECTING A FENCE AROUND A CORNER OR SHARP SIDE OF THE STAKES WITH THE MESH CHANGE OF DIRECTION

STAKES WITH THE FABRIC FOLDING AROUND THE ASSOCIATED STAKE ONE TURN, AND WITH SEDIMENT FENCE FROM A CONTINUOUS ROLI (i) ATTACH EACH END TO TWO OVERLAPPING 10. WHEREVER POSSIBLE, CONSTRUCT THE OF FABRIC. TO JOIN FABRIC EITHER:

THE TWO STAKES TIED TOGETHER WITH WIRE: (ii) OVERLAP THE FABRIC TO THE NEXT ADJACENT SUPPORT POST.

SUPPORT POSTS USING 25 X 12.5mm STAPLES, OR TIE WIRE AT MAXIMUM 150mm SPACING. 11. SECURELY ATTACH THE FABRIC TO THE

12. SECURELY ATTACH THE FABRIC TO THE SUPPORT WIRE/MESH (IF ANY) AT A MAXIMUM SPACING OF 1m.

13. ENSURE THE COMPLETED SEDIMENT FENCE IS AT LEAST 450mm, BUT NOT MORE THAN 700mm HIGH. IF A SPILL-THOUGH WEIR IS INSTALLED, ENSURE THE CREST OF THE WEIR IS AT LEAST 300mm ABOVE GROUND LEVEL 14. BACKFILL THE TRENCH AND TAMP THE FILL TO FIRMLY ANCHOR THE BOTTOM OF THE FABRIC AND MESH TO PREVENT WATER FROM FLOWING UNDER THE FENCE

ADDITIONAL REQUIREMENTS FOR THE INSTALLATION OF A SPILL-THROUGH WEIR

THAT THE WEIR CREST WILL BE LOWER THAN 1. LOCATE THE SPILL-THROUGH WEIR SUCH THE GROUND LEVEL AT EACH END OF THE FENCE. 2. ENSURE THE CREST OF THE SPILL-THROUGH WEIR IS AT LEAST 300mm THE GROUND ELEVATION.

MEMBER (WEIR) TO THE SUPPORT POSTS/ STAKES EACH SIDE OF THE WEIR. CUT THE FABRIC DOWN THE SIDE OF EACH POST AND FOLD THE FABRIC OVER THE CROSS MEMBER AND APPROPRIATELY SECURE THE FABRIC SECURELY TIE A HORIZONTAL CROSS

4. INSTALL A SUITABLE SPLASH PAD AND/OR CHUTE IMMEDIATELY DOWN-SLOPE OF THE EROSION AND APPROPRIATELY DISCHARGE THE CONCENTRATED FLOW PASSING OVER THE WEIR. SPILL-THROUGH WEIR TO CONTROL SOIL

MAINTENANCE

WEEKLY AND AFTER ANY SIGNIFICANT RAIN. 1. INSPECT THE SEDIMENT FENCE AT LEAST MAKE NECESSARY REPAIRS IMMEDIATELY.

3. WHEN MAKING REPAIRS, ALWAYS RESTORE CONTINUOUS PIECE OF FABRIC FROM POST TO POST

2. REPAIR ANY TORN SECTIONS WITH A

CONFIGURATION UNLESS AN AMENDED LAYOUT IS REQUIRED OR SPECIFIED. THE SYSTEM TO ITS ORIGINAL

SEDIMENT DEPOSIT EXCEEDS A DEPTH OF 1/3 5. REMOVE ACCUMULATED SEDIMENT IF THE 4. IF THE FENCE IS SAGGING BETWEEN STAKES, INSTALL ADDITIONAL SUPPORT POSTS

MANNER THAT WILL NOT CAUSE AN EROSION 6. DISPOSE OF SEDIMENT IN A SUITABLE OR POLLUTION HAZARD

THE HEIGHT OF THE FENCE

7. REPLACE THE FABRIC IF THE SERVICE LIFE OF THE EXISTING FABRIC EXCEEDS 6-MONTHS

REMOVAL

1. WHEN DISTURBED AREAS UP-SLOPE OF THE STABILISED TO RESTRAIN EROSION, THE SEDIMENT FENCE ARE SUFFICIENTLY FENCE MUST BE REMOVED.

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

DISTURBED GROUND AS NECESSARY TO 3. REHABILITATE/REVEGETATE THE MINIMISE THE EROSION HAZARD.

May-10 GMW

Sediment Fence

ESC-05