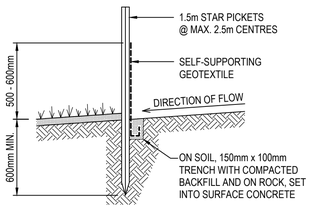
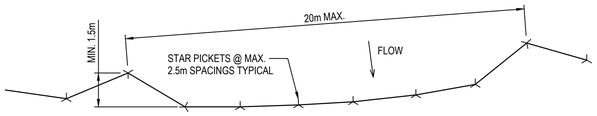
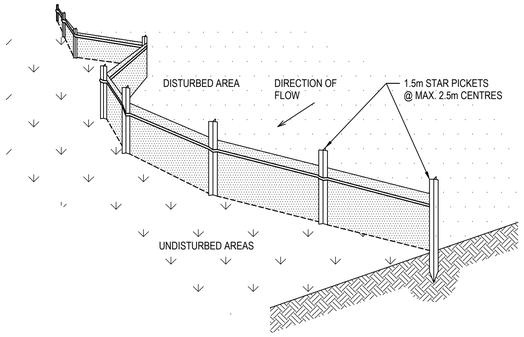


SECTION DETAIL



PLAN

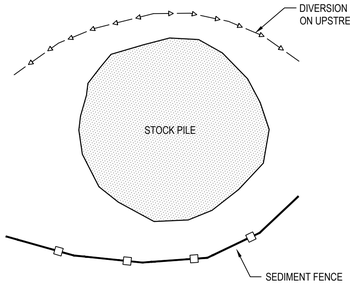


SEDIMENT FENCE

SCALE N.T.S.

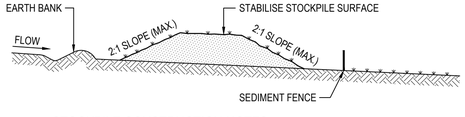
SEDIMENT FENCE CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND @ 2.5m INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



STOCKPILE PLAN

SCALE N.T.S.

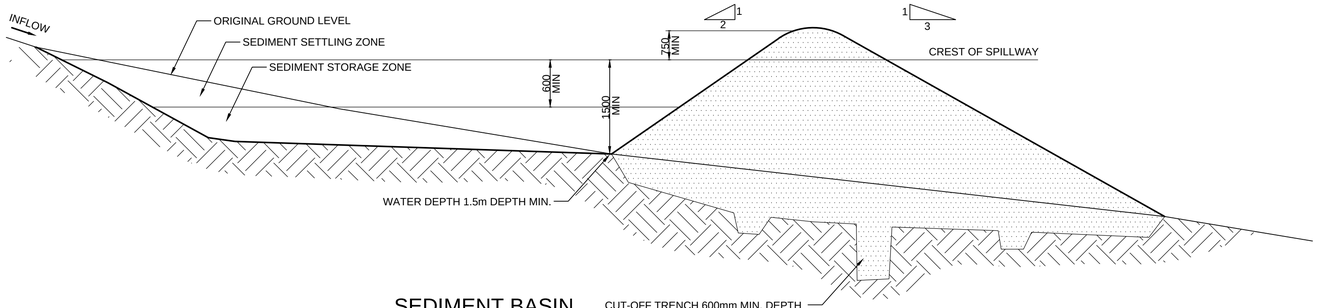


STOCKPILE CONSTRUCTION NOTES:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. WHERE THEY ARE TO BE PLACED FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED E.S.C.P. OR S.W.M.P. TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

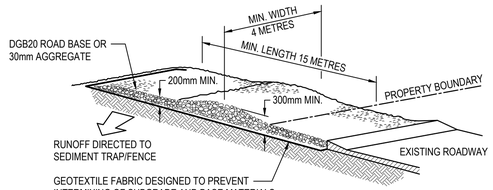
STOCKPILE SECTION

SCALE N.T.S.



SEDIMENT BASIN

NOT TO SCALE

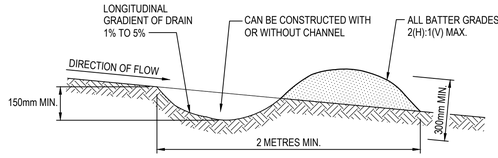


STABILISED SITE ACCESS CONSTRUCTION NOTES:

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE - PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO SEDIMENT FENCE.

STABILISED SITE ACCESS

SCALE N.T.S.



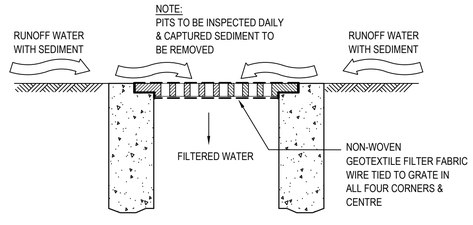
NOTE: ONLY TO BE USED AS TEMPORARY BANK
WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

EARTH BANK CONSTRUCTION NOTES:

1. BUILD WITH GRADIENTS BETWEEN 1% AND 5%.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS-SECTIONS, NOT "V" SHAPED.
5. ENSURE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

EARTH BANK (LOW FLOW)

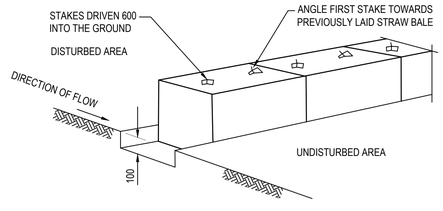
SCALE N.T.S.



INLET TRAP

SCALE N.T.S.

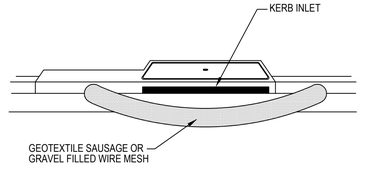
NOTE:
TO BE USED IN PAVED AREAS
WHERE TRAFFIC ACCESS IS REQUIRED



STRAW BALE FILTER

SCALE N.T.S.

NOTE :
STAKE TO BE EITHER TAR COATED
STAR OR 50 x 50 HARDWOOD



GRAVEL SAUSAGE

SCALE N.T.S.

EROSION AND SEDIMENT CONTROLS

ES1 ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH:
- (A) LOCAL AUTHORITY REQUIREMENTS
- (B) APPLICABLE - POLLUTION CONTROL MANUAL FOR URBAN STORMWATER
- (C) DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT MANUAL- "URBAN EROSION & SEDIMENT CONTROL".
- (D) NSW PROTECTION OF THE ENVIRONMENT ACT 1997

ES2 THE CONTRACTOR SHALL PREPARE EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES FOR THE WHOLE OF THE WORKS. SHOULD THE CONTRACTOR STAGE THESE WORKS THEN THE DESIGN MAY REQUIRE TO BE MODIFIED. VARIATION TO THESE DETAILS MAY REQUIRE TO BE APPROVED BY THE RELEVANT AUTHORITIES. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE IMPLEMENTED AND ADOPTED TO MEET THE VARYING SITUATIONS AS WORK ON SITE PROGRESSES.

ES3 MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY AS APPROPRIATE (IE. PRIVATE / PUBLIC LAND)

ES4 AS STORMWATER PITS ARE CONSTRUCTED PREVENT SITE RUNOFF ENTERING. ERECT SILT FENCES AROUND PITS.

ES5 MINIMISE THE AREA OF SITE DISTURBED AT ANY ONE TIME.

ES6 PROTECT ALL STOCKPILES OF MATERIALS FROM SCOUR AND EROSION. DO NOT STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES.

ES7 ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH WORKING DAY, AND MODIFIED TO BEST SUIT SITE CONDITIONS.

ES8 CONTROL WATER FROM UPSTREAM OF THE SITE SO THAT IT DOES NOT ENTER THE DISTURBED SITE.

ES9 ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE AGREED TEMPORARY CONSTRUCTION ENTRY/EXIT.

ES10 ALL VEHICLES ASSOCIATED WITH CIVIL WORKS SHALL BE CLEANED AND INSPECTED BY THE CONTRACTOR BEFORE LEAVING THE SITE .

ES11 MAINTAIN ALL STORMWATER PIPES AND PITS CLEAR OF DEBRIS AND SEDIMENT. THE CONTRACTOR SHALL INSPECT STORMWATER SYSTEM AND CLEAN OUT AFTER EACH STORM EVENT AND / OR WHEN DIRECTED

ES12 THE CONTRACTOR SHALL CLEAN OUT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH STORM EVENT.

SEQUENCE OF WORKS

SQ1 PRIOR TO COMMENCEMENT OF EXCAVATION THE FOLLOWING SOIL MANAGEMENT DEVICES MUST BE INSTALLED.
- (A) CONSTRUCT ALL SILT FENCES BELOW THE SITE AND ACCROSS ALL POTENTIAL RUNOFF SITES
- (B) CONSTRUCT TEMPORARY CONSTRUCTION ENTRY / EXIT AND DIVERT RUNOFF TO SUITABLE CONTROL SYSTEMS
- (C) CONSTRUCT MEASURES TO DIVERT UPSTREAM FLOWS AROUND WORK(S) AREAS
- (D) CONSTRUCT SEDIMENTATION TRAPS / BASIN INLUDING OUTLET CONTROL AND OVERFLOW
- (E) PROVIDE SAND BAG SEDIMENT TRAPS / GRAVEL SEDIMENT SAUSAGE UPSTREAM OF EXISTING PITS

SQ2 CONSTRUCT GEOTEXTILE FILTER PIT SURROUND AROUND ALL PROPOSED PITS AS THEY ARE CONSTRUCTED

SQ3 ON COMPLETION OF PAVEMENT PROVIDE GRAVEL SAUSAGE AT KERB INLET PITS.

SQ4 PROVIDE AND MAINTAIN A 450 WIDE STRIP OF TURN ON BOTH SIDES OF ALL PAVEMENTS AFTER CONSTRUCTION

REV	DESCRIPTION	BY	APP	DATE
A	ISSUED FOR PA	LC	-	17-02-11
B	RE-ISSUED FOR PA	LC	DB	12-04-11

MEINHARDT INFRASTRUCTURE & ENVIRONMENT
Level 4, 66 Clarence Street
Sydney NSW 2000
Telephone: (02) 9699 3088
Fax: (02) 9319 7508
www.meinhardtgroup.com
A.C.N. 051 627 591
©Copyright

CLIENT: FRASERS PUTNEY PTY LTD

DESIGNED	DRAWN	APPROVED	SCALE @ A1
LD	RL	PD	AS SHOWN

STATUS: PRELIMINARY
NOT FOR CONSTRUCTION

PROJECT: FRASERS PUTNEY RESIDENTIAL DEVELOPMENT
CHARLES STREET, RYDE

TITLE: EROSION & SEDIMENT CONTROL DETAILS

PROJECT No	DRAWING No	REV
104479-04	MIE032	B

DWG FILE: X:\104479 - Putney Green (Frasers)\BIM\6_3 MHT MIE\6_3_2 MHT INF104479-04-MIE032.dwg - MH PLOT TIME: 13 Apr 2011, 11:57am