

APPENDIX C – CONCEPT EROSION AND SEDIMENT CONTROL PLAN

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE APPROPRIATE FOR THE SEDIMENT TYPES OF THE SOILS ON-SITE. IN ACCORDANCE WITH THE 'BLUE BOOK' REQUIREMENTS, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DESIGNED TO MEET OR EXCEED ANY OTHER CURRENT RECOGNISED NATIONAL STANDARDS FOR EROSION AND SEDIMENT CONTROL FOR AUSTRALIAN CONDITIONS. THIS INCLUDES SEDIMENT TRAPS AND LININGS OF CHANNELS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING A DETAILED WRITTEN RECORD OF ALL EROSION AND SEDIMENT CONTROLS ON-SITE DURING THE CONSTRUCTION PERIOD. THE RECORD SHALL BE AVAILABLE FOR INSPECTION BY THE PRINCIPAL, THE SUPERINTENDENT OR ANY OTHER AUTHORITY AT THE CONDITION OF CONTROLS AND ANY ALL MAINTENANCE, CLEANING AND BREACHES. THE RECORD SHALL BE KEPT AVAILABLE FOR INSPECTION BY THE PRINCIPAL, CERTIFYING AUTHORITY AND THE SUPERINTENDENT DURING NORMAL WORKING HOURS.

THE CONTRACTOR SHALL PROVIDE SEDIMENT TRAPS ON ALL NEW AND EXISTING STORMWATER LINES PITS IN ACCORDANCE WITH EITHER THE MESH AND GRAVEL NAIL FILTER DETAIL SDA-110 OR THE GEOTEXTILE NAIL FILTER DETAIL SDA-120 OF THE 'BLUE BOOK'.

THE CONTRACTOR SHALL REQUIRE ALL EXISTING STORMWATER LINES DETAIL SDA-8 OF THE 'BLUE BOOK'.

THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL DEVICES, AROUND INDIVIDUAL BUILDING ZONES AND AREAS AS REQUIRED AND AS DIRECTED BY THE SUPERINTENDENT OR APPROPRIATE COUNCIL OFFICER.

ALL EXCAVATIONS INCLUDING SERVICE TRENCHES AND SWALE EXCAVATION SHALL BE SIDE-CAST TO THE HIGH SIDE AND CLOSED AT THE END OF EACH WORK DAY.

THE CONTRACTOR SHALL ENSURE THAT ALL VEGETATION, TREES, SHRUBS & GRASS AND SOIL MOVED TO THE SIDE OF EXCAVATION IS STORED TO BE RE-PLANTED AT THE END OF CONSTRUCTION.

ALL VEGETATION TO BE REMOVED SHALL BE MULCHED ON-SITE AND SPREAD/STOCKPILED AS DIRECTED BY THE SUPERINTENDENT.

STRIP TOPSOIL IN AREAS DESIGNATED FOR STRIPPING AND STOCKPILE FOR RE-USE AS TOPSOIL OR SUPPLY OF FILL SHALL BE STOCKPILED AS DIRECTED BY THE SUPERINTENDENT OR REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH EPA REQUIREMENTS.

THE CONTRACTOR SHALL MAINTAIN ALL MATERIAL STOCKPILES IN ACCORDANCE WITH DETAIL CD-4 OF THE 'BLUE BOOK' INCLUDING CUT OFF SWALES TO THE HIGH SIDE AND CURRENT REQUIREMENTS TO THE LOW SIDE.

THE CONTRACTOR SHALL ENSURE STOCKPILES DO NOT EXCEED 2.0m HIGH PROVIDE WIND AND RAIN EROSION PROTECTION AS REQUIRED IN ACCORDANCE WITH THE 'BLUE BOOK'.

THE CONTRACTOR SHALL MAINTAIN ALL STOCKPILES OF FILL OR TOPSOIL AS REQUIRED TO PREVENT EROSION AND TO PREVENT WIND-DRIVEN DUST TO PREVENT DUST TO SUPPRESS DUST.

ALL CUT AND FILL OPERATIONS HAVE BEEN FINALIZED ALL DISTURBED AREAS THAT ARE NOT BEING WORKED ON SHALL BE RE-VEGETATED AS SOON AS IS PRACTICAL.

	PROPOSED BUILDING OUTLINE
	EXISTING CONTOURS
	EXISTING STORMWATER
	SEDIMENT FENCE
	SANDBAG SEDIMENT FILTER
	GRATED INLET PIT (EXTG)
	STOCKPILE
	STARLINE SITE ACCESS

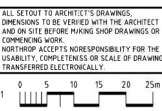
CONSTRAINT	VALUE
SEDIMENT TYPE	F (DISPERSIBLE SOILS)
SOIL HYDROLOGY GROUP	D
K = SOIL EXFOLDILITY (K-FACTOR)	0.05
P = RAINFALL GROWTH (P-FACTOR)	0.93
S = 2 YEAR, 6 HOUR TORM INTENSITY	10.9 mm/hr (HUCKLE)
LS = SLOPE LENGTH/GRADIENT	0.24 (20m SLOPE @ 25 GRADE)
P = EROSION CONTROL, PRACTICE (P-FACTOR)	13 (13%)
C = GROUND COVER (C-FACTOR)	10 (10% FIRM, FR STRIPPED SITE)
SOIL LOSS (RUSLE METHOD) (tonnes/ha/yr)	0.08
EROSION HAZARD (TABLE 6.2 BLUE BOOK)	VERY LOW
DISTURBANCE AREA (ha)	1.81
SOIL LOSS PER YEAR (m ³ /yr)	15
SEDIMENT BASIN REQUIRED?	NO. AS-16m ³ /YR



CLIENT

 THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION
SIGNATURE HAS BEEN ADDED.



DRAWING TITLE

**CONCEPT EROSION
AND SEDIMENT CONTROL PLAN
SITE 1**

JOB NUMBER	
NL172766	
DRAWING NUMBER	REVISION
C10.4	1
DRAWING SHEET SIZE = A1	