# KENDEL PARK ENVIRONMENTAL VILLAGE Burton Road, Mount Hutton. N.S.W.





## DRAWING INDEX

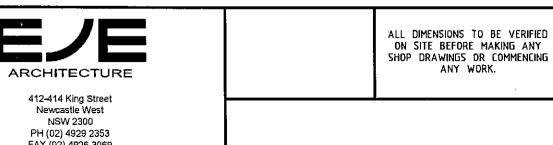
### DRAWING No. DRAWING TITLE

C00 DA	COVER SHEET & DRAWING INDEX
C01 DA	SEDIMENT & EROSION CONTROL PLAN
C02 DA	CONCEPT STORMWATER & LEVELS SITE PLAN
C03 DA	CONCEPT STORMWATER & LEVELS PART PLAN SHEET 1 OF 3
C04 DA	CONCEPT STORMWATER & LEVELS PART PLAN SHEET 2 OF 3
C05 DA	CONCEPT STORMWATER & LEVELS PART PLAN SHEET 3 OF 3
C06 DA	CIVIL DETAILS SHEET 1
C07 DA	CIVIL DETAILS SHEET 2
C08 DA	CIVIL DETAILS SHEET 3
C09 DA	FLOODING EXTENTS PLAN



APPROVAL

ISSUE	AMENDMENT	VERIFIED	APPROVED	DATE	CLIENT		AR
Α	ISSUED FOR DA APPROVAL			02.06.10	Ken Delforce		l ''''
В	DETAIL SHEET CO7 DA ADDED			07.10.10			
ξ	REISSUED FOR DA			17.12.10			
D	REISSUED FOR DA			20.12.10			
					DRAWING NOT TO BE USED	THE COPYRIGHT OF THIS	l
					FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE	DRAWING REMAINS WITH NORTHROP CONSULTING	
					HAS BEEN ADDED	ENGINEERS PTY LTD.	L

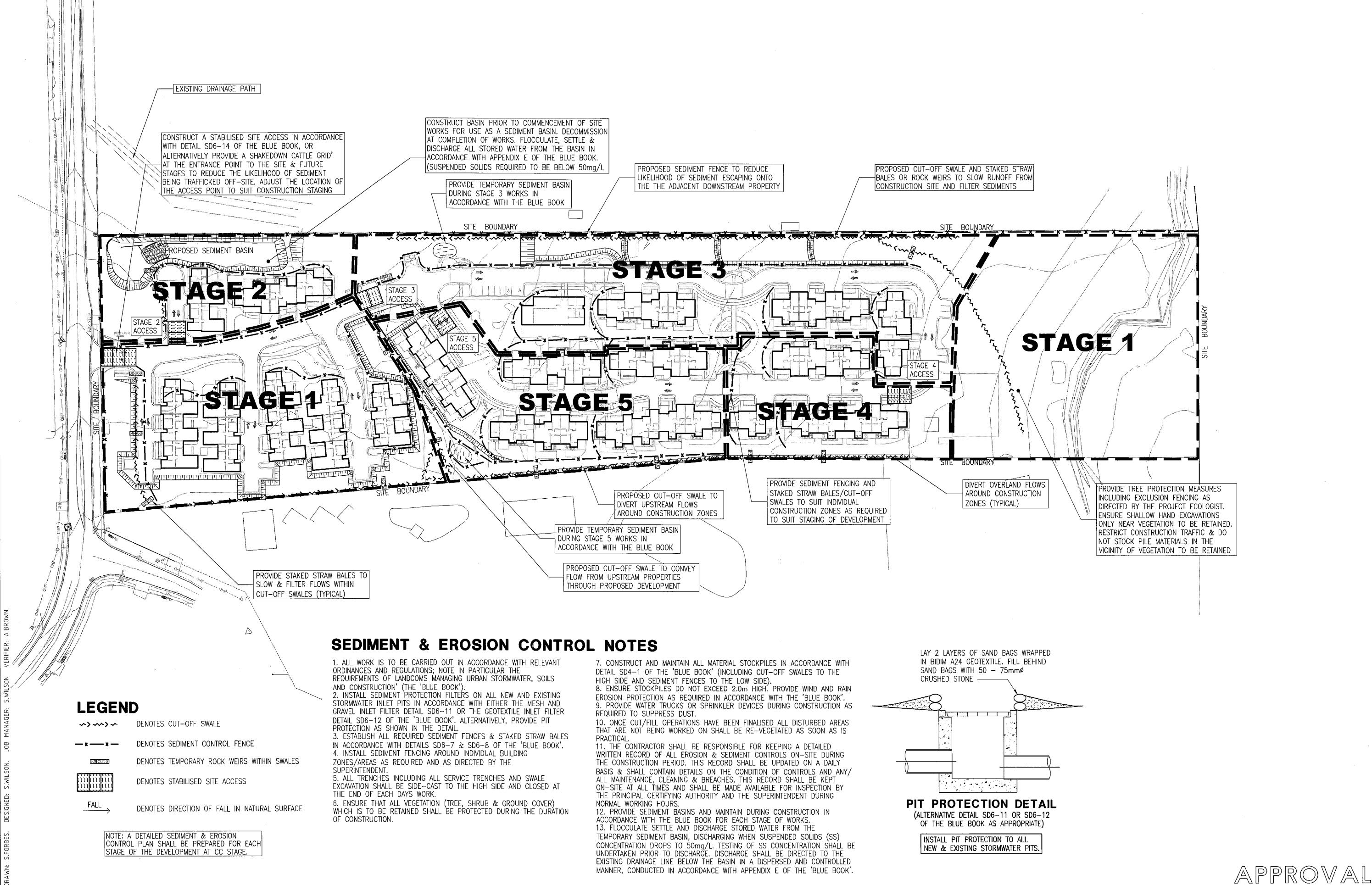




KENDEL PARK
ENVIRONMENTAL VILLAGE
Burton Road, Mount Hutton.

COVER SHEET &
DRAWING INDEX

JOB NUMBER
NL100073
DRAWING NUMBER ISSUE



JOB NUMBER NL100073 DRAWING NUMBER ISSUE

DRAWING TITLE

KENDEL PARK Ken Delforce SEDIMENT & EROSION ON SITE BEFORE MAKING ANY ISSUED FOR DA APPROVAL 02.06.10 SHOP DRAWINGS OR COMMENCING ENVIRONMENTAL VILLAGE ANY WORK. CONTROL PLAN LAYOUT AMENDED 07.10.10 **ARCHITECTURE** Bringing people, ideas & engineering together REISSUED FOR DA Burton Road, Mount Hutton. CO1 DA Newcastle D REISSUED FOR DA DRAWING NOT TO BE USED 20.12.10 7.5 15 22.5 30 37.5m THE COPYRIGHT OF THIS Ph (02) 4943 1777 323 Charlestown Road. P.O. Box 180 DRAWING REMAINS WITH FOR CONSTRUCTION UNLESS Charlestown, NSW 2290 PH (02) 4929 2353 Charlestown, NSW 2290 Fax (02) 4943 1577 NORTHROP CONSULTING VERIFICATION SIGNATURE FAX (02) 4926 3069 Email newcastle@northrop.com.au ABN 81 094 433 100 DRAWING SHEET SIZE = A1 ENGINEERS PTY LTD. HAS BEEN ADDED

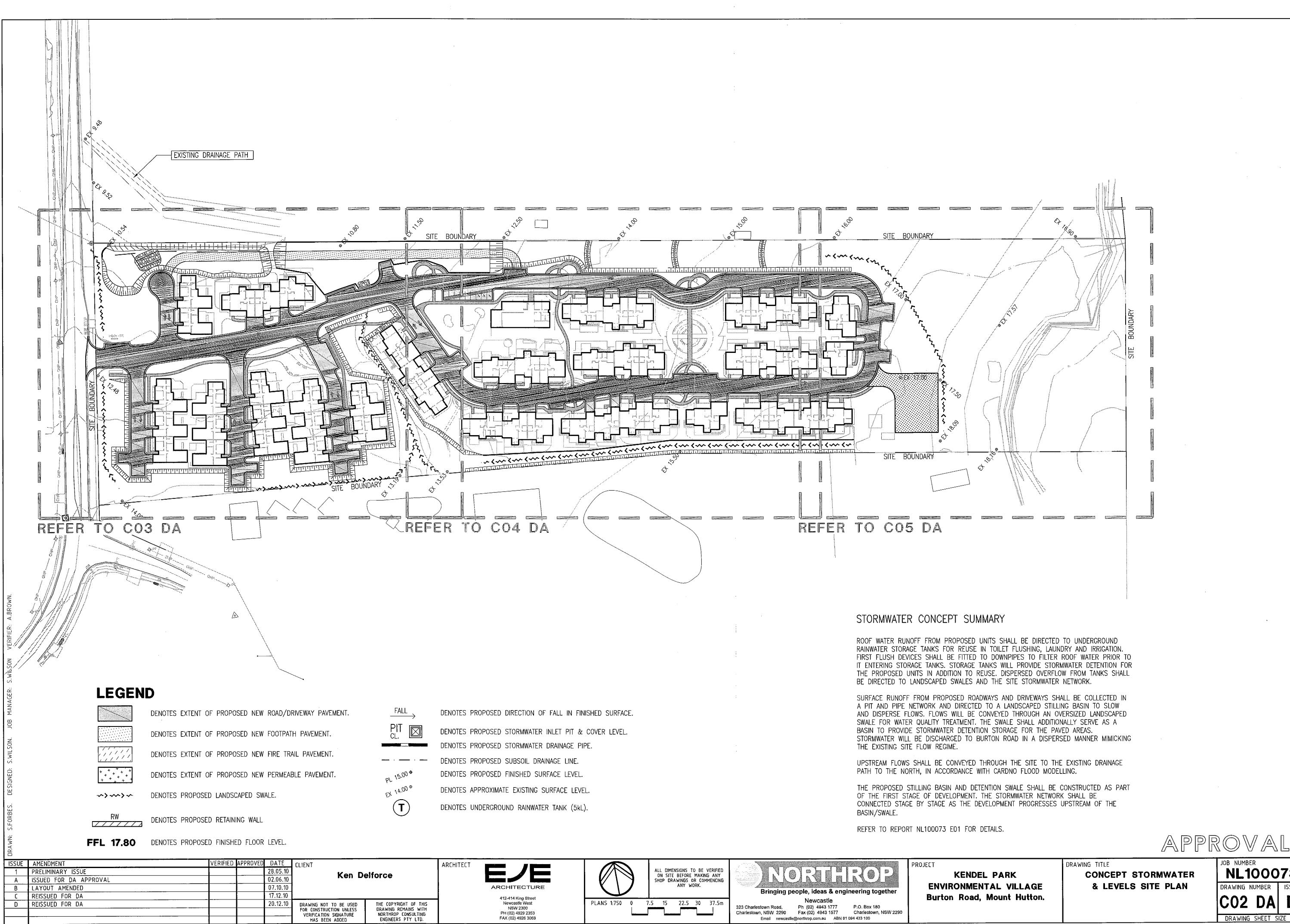
LL DIMENSIONS TO BE VERIFIED

VERIFIED APPROVED DATE CLIENT

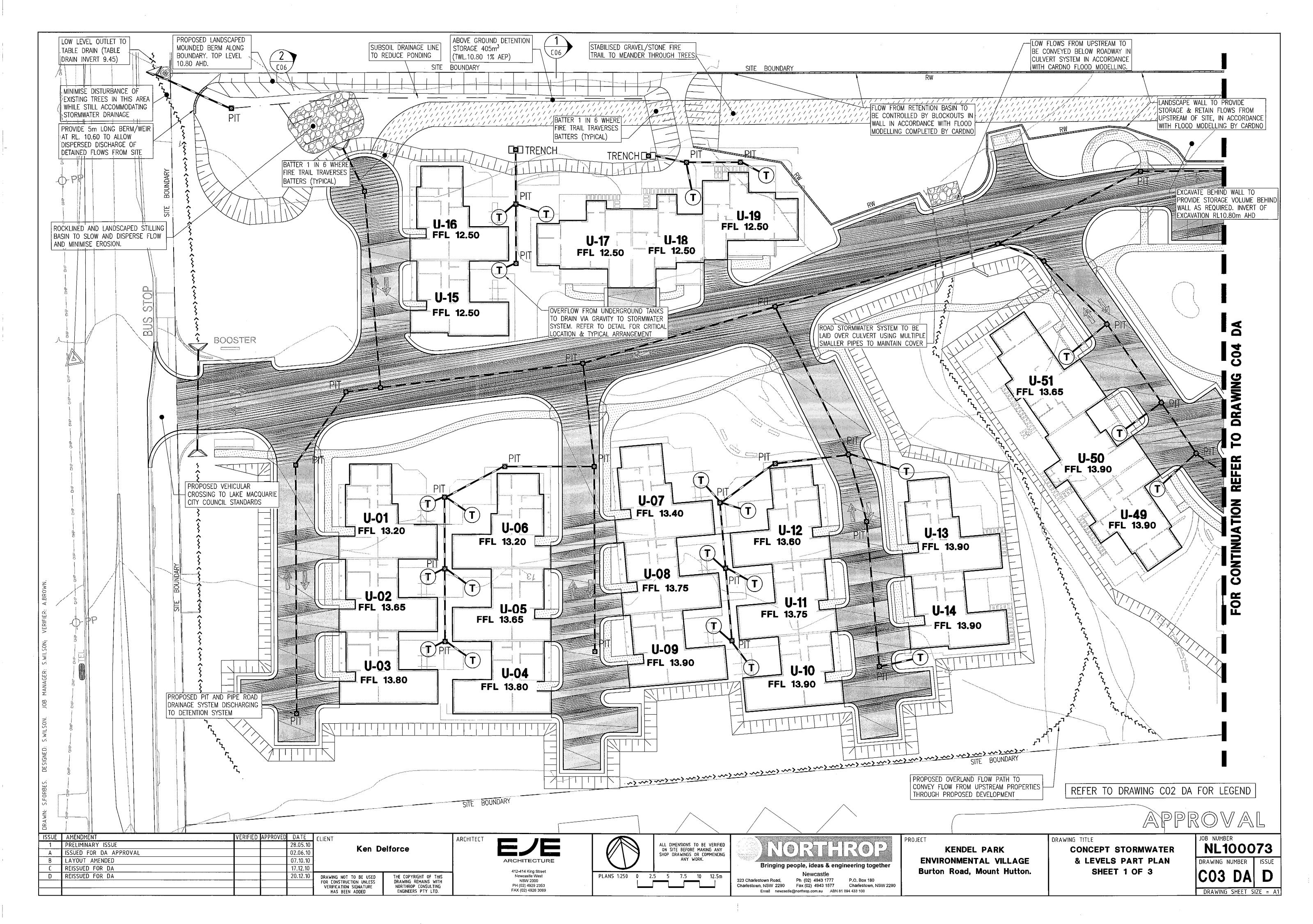
28.05.10

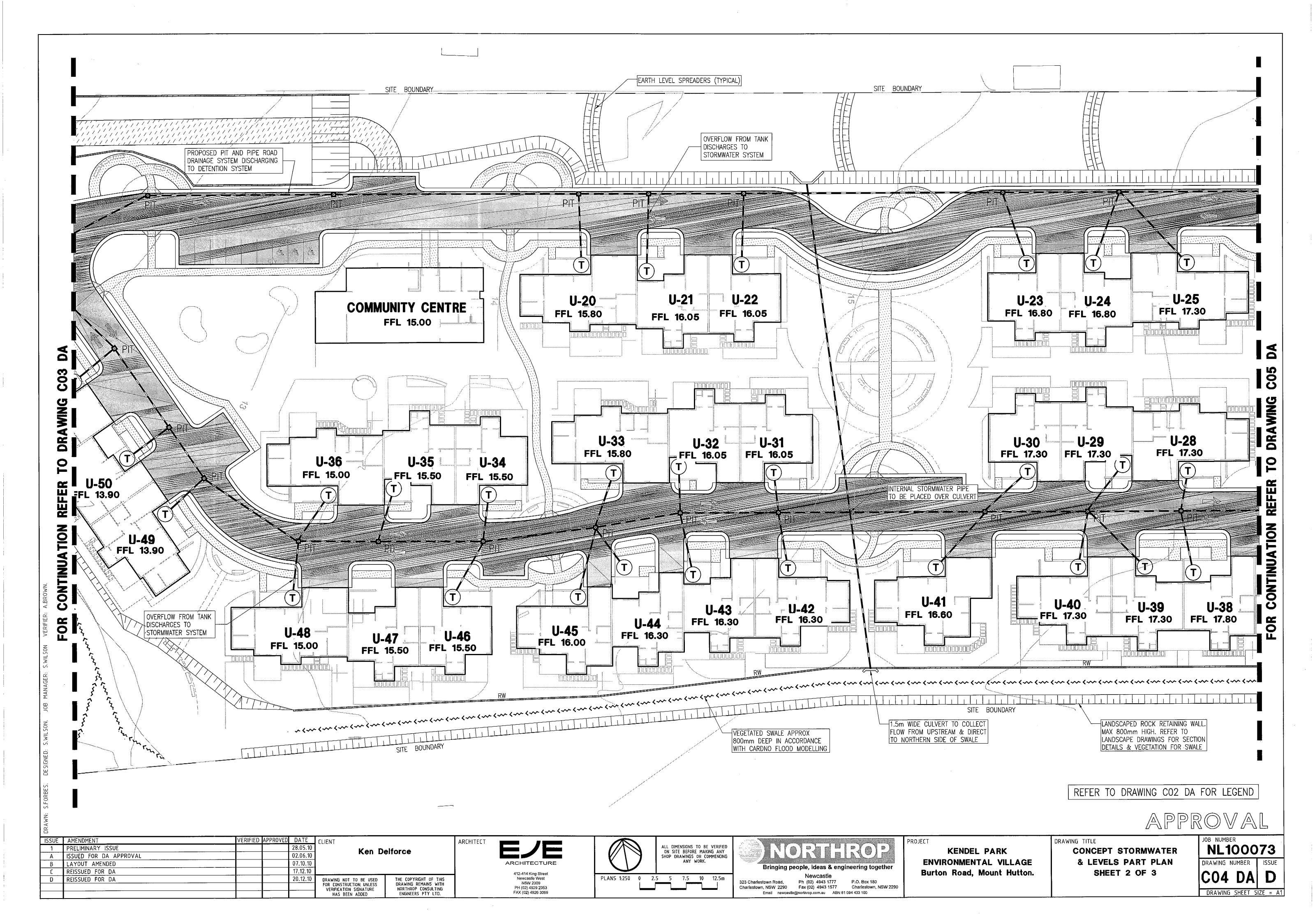
ISSUE AMENDMENT

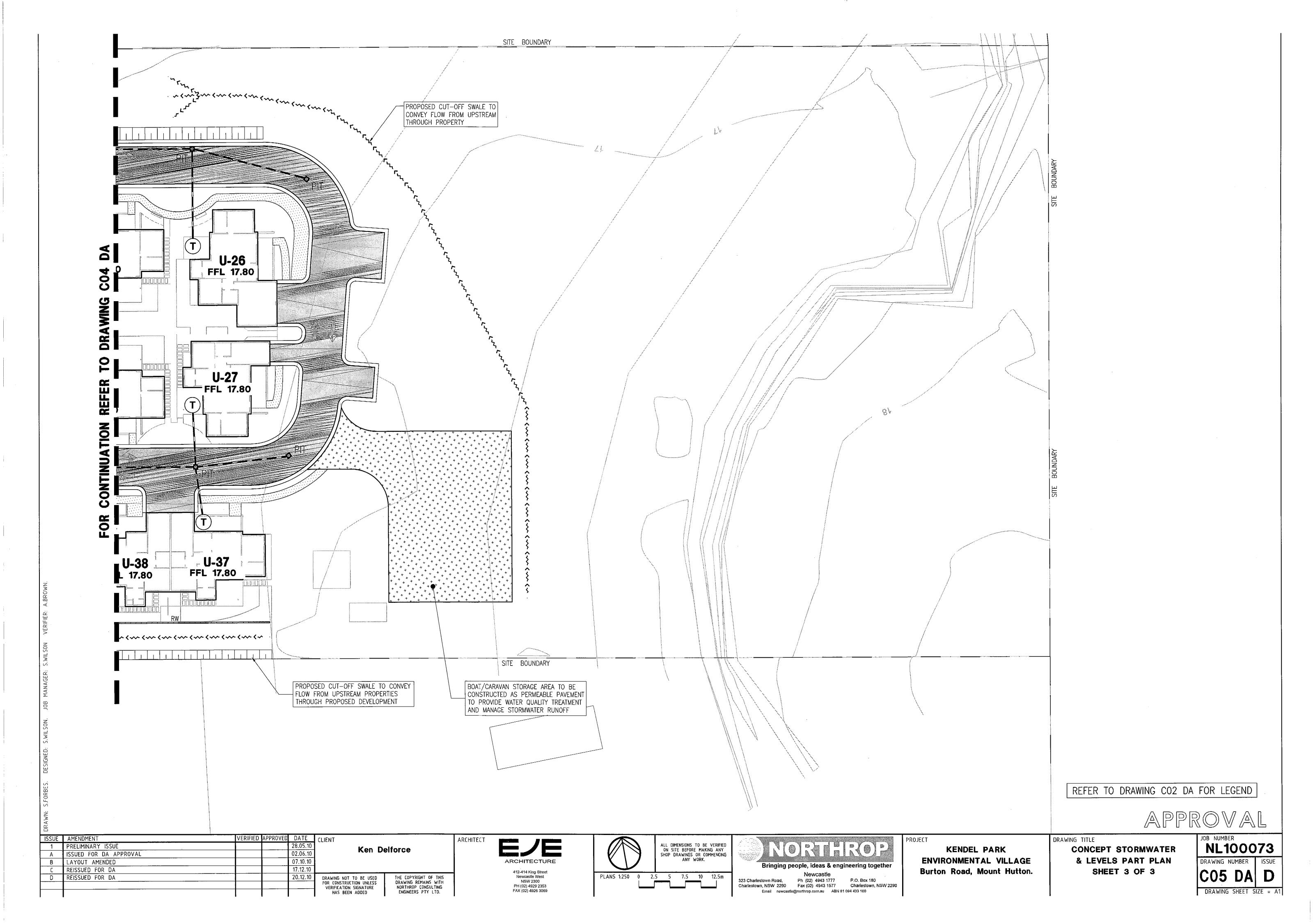
PRELIMINARY ISSUE

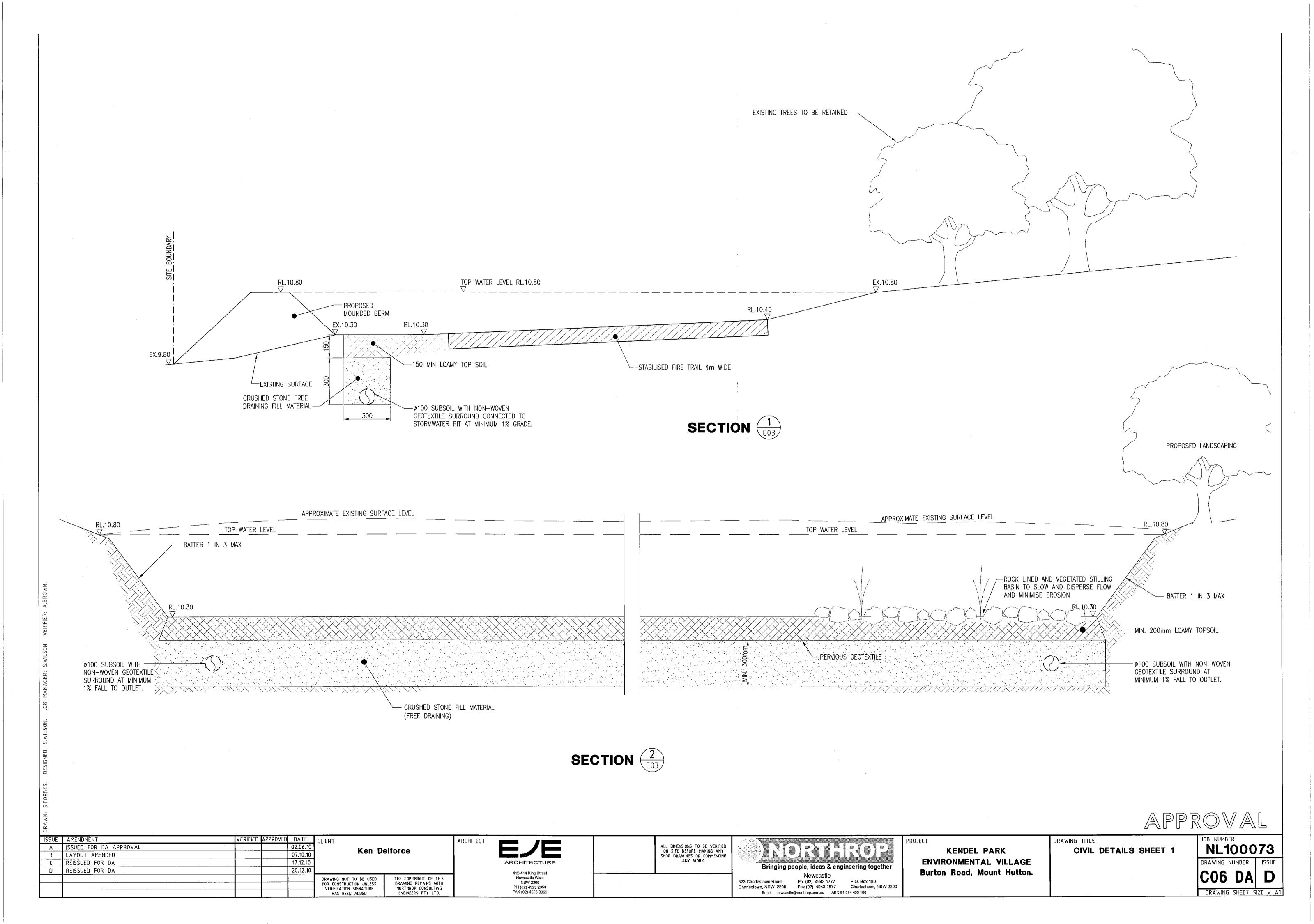


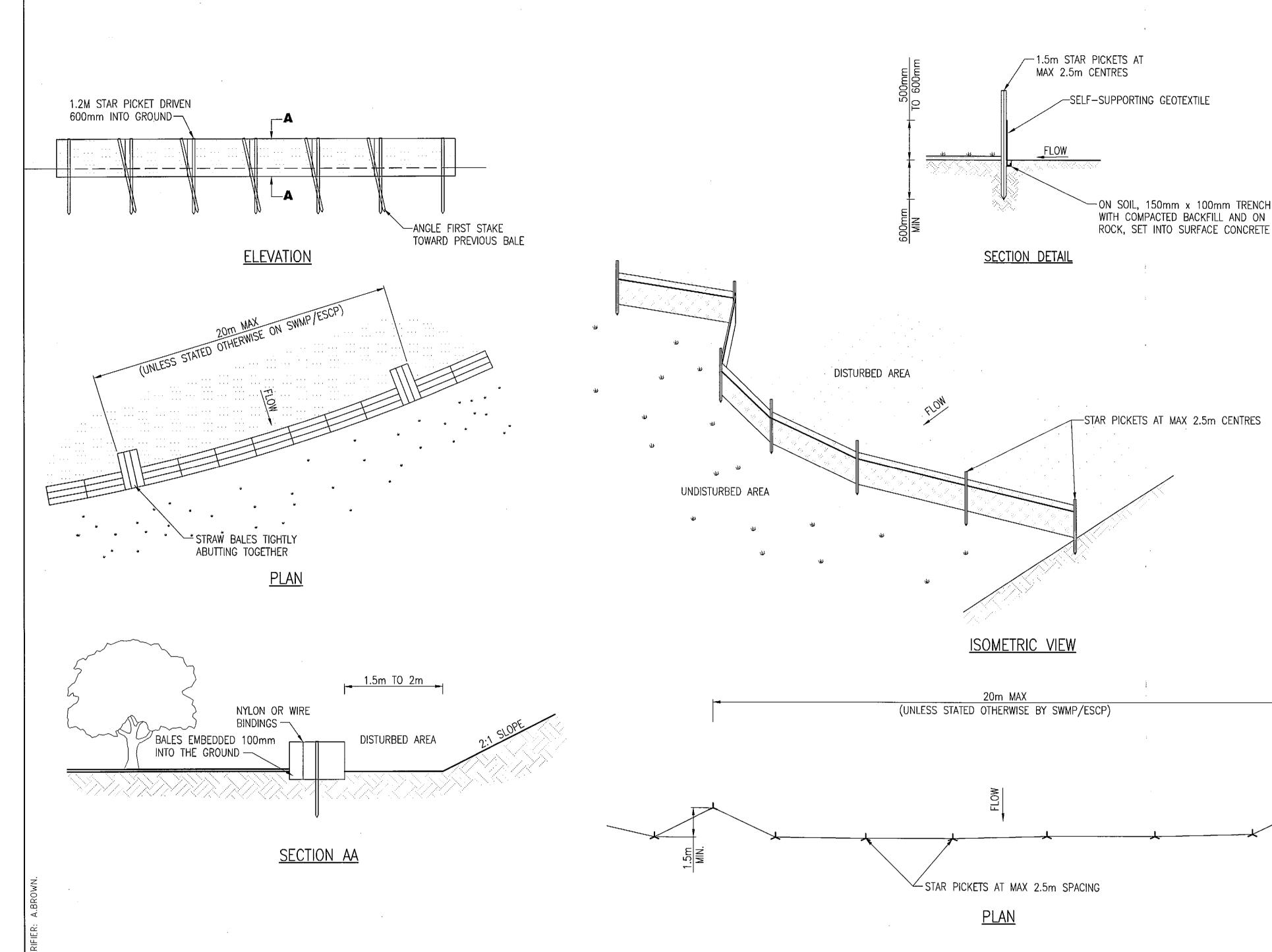
JOB NUMBER NL100073 DRAWING NUMBER ISSUE CO2 DA DRAWING SHEET SIZE = A1











### STRAW BALE FILTER SD 6-7

### NOTES

1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE.

2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO THE GROUND. 3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE. 4. EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2m STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE THEM 600mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS. 5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWN SLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2m DOWNSLOPE FROM THE TOE. 6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED - THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

# SEDIMENT FENCE SD 6-8

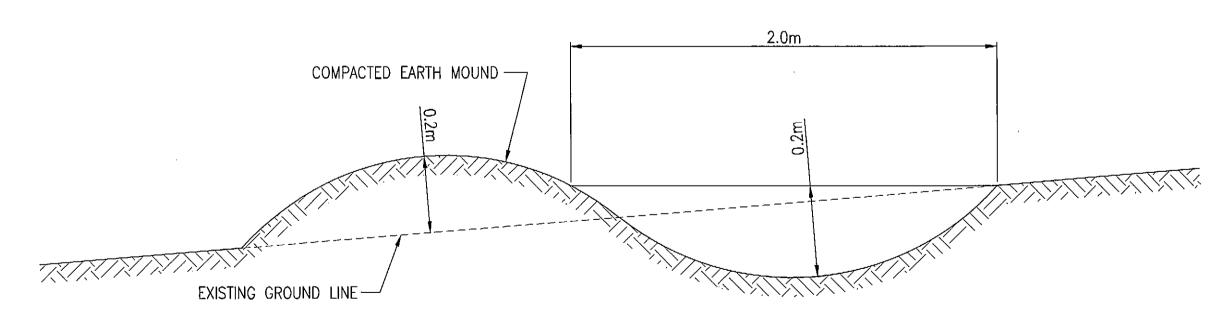
### NOTES

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 50L/SEC 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 THE GROUND AT 2.5m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED

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 THE 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 150mm OVERLAP. 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



TYPICAL CUT OFF **SWALE DETAIL** 

APPROVAL

VERIFIED APPROVED DATE CLIENT ISSUE AMENDMENT 07.10.10 DETAILS ADDED Ken Delforce 17.12.10 REISSUED FOR DA 20.12.10 REISSUED FOR DA DRAWING NOT TO BE USED THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING VERIFICATION SIGNATURE ENGINEERS PTY LTD. HAS BEEN ADDED

PH (02) 4929 2353

FAX (02) 4926 3069

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE MAKING ANY SHOP DRAWINGS OR COMMENCING ANY WORK. 412-414 King Street Newcastle West

NORTHROP Bringing people, ideas & engineering together Newcastle Ph (02) 4943 1777 323 Charlestown Road,

Charlestown, NSW 2290 Fax (02) 4943 1577 Charlestown, NSW 2290

Email newcastle@northrop.com.au ABN 81 094 433 100

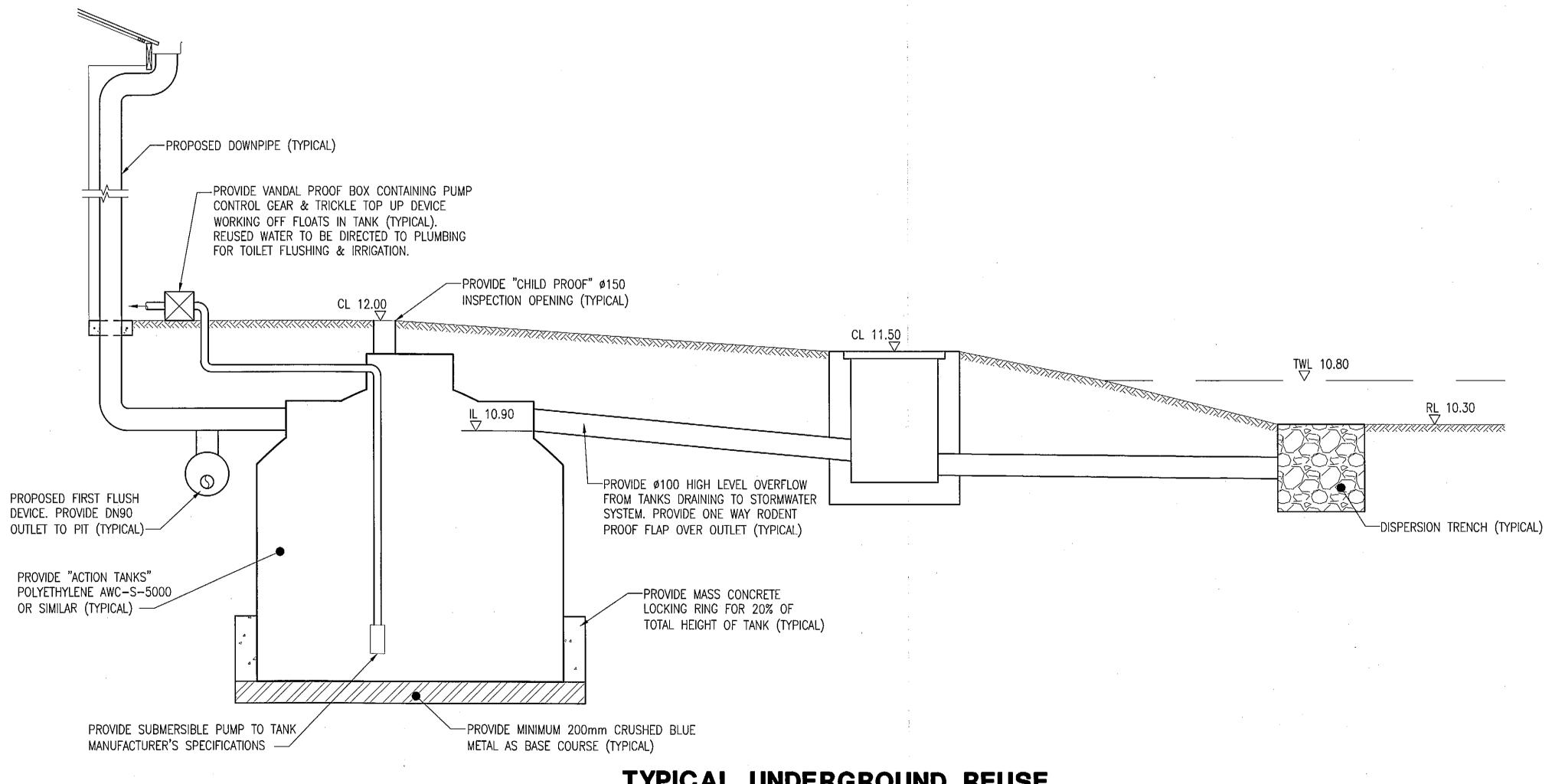
KENDEL PARK ENVIRONMENTAL VILLAGE Burton Road, Mount Hutton.

DRAWING TITLE **CIVIL DETAILS SHEET 2** 

NL100073 DRAWING NUMBER

DRAWING SHEET SIZE = A1

# TYPICAL OUTLET FROM FLOODING RETENTION POND



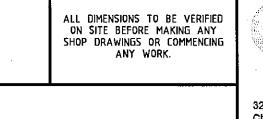
# TYPICAL UNDERGROUND REUSE TANK DETAIL (CRITICAL LOCATION)

APPROVAL

DRAWING SHEET SIZE = A1

ISSUE	AMENDMENT	VERIFIED	APPROVED	DATE	CLIENT		AF
Α	REISSUED FOR DA			17.12.10	Ken Delforce		
В	REISSUED FOR DA			20.12.10	Ken Denoice		
							_
					DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	THE COPYRIGHT OF THIS	1
						DRAWING REMAINS WITH NORTHROP CONSULTING	
		1				ENGINEERS PTY LTD.	







Email newcastle@northrop.com.au ABN 81 094 433 100

**KENDEL PARK** ENVIRONMENTAL VILLAGE Burton Road, Mount Hutton. DRAWING TITLE CIVIL DETAILS SHEET 3

NL100073 CO8 DA B

# **LEGEND**

DENOTES 100 YEAR FLOOD EXTENT WITH 0.05m DEPTH

. . . . . . .

ISSUE AMENDMENT

DENOTES PMF FLOOD LEVEL

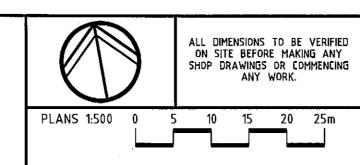
FFL 13,80

DENOTES PROPOSED FINISHED FLOOR LEVEL, FINISHED FLOOR LEVEL SET A MINIMUM 500mm ABOVE 1% AEP FLOOD EVENT

APPROVAL

VERIFIED APPROVED DATE CLIENT A REISSUED FOR DA Ken Delforce REISSUED FOR DA THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD. DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE







Charlestown, NSW 2290 Fax (02) 4943 1577 Charlestown, NSW 2290

Email newcastle@northrop.com.au ABN 81 094 433 100

KENDEL PARK ENVIRONMENTAL VILLAGE Burton Road, Mount Hutton. NL100073

DRAWING SHEET SIZE = A1

DRAWING TITLE FLOODING EXTENTS PLAN