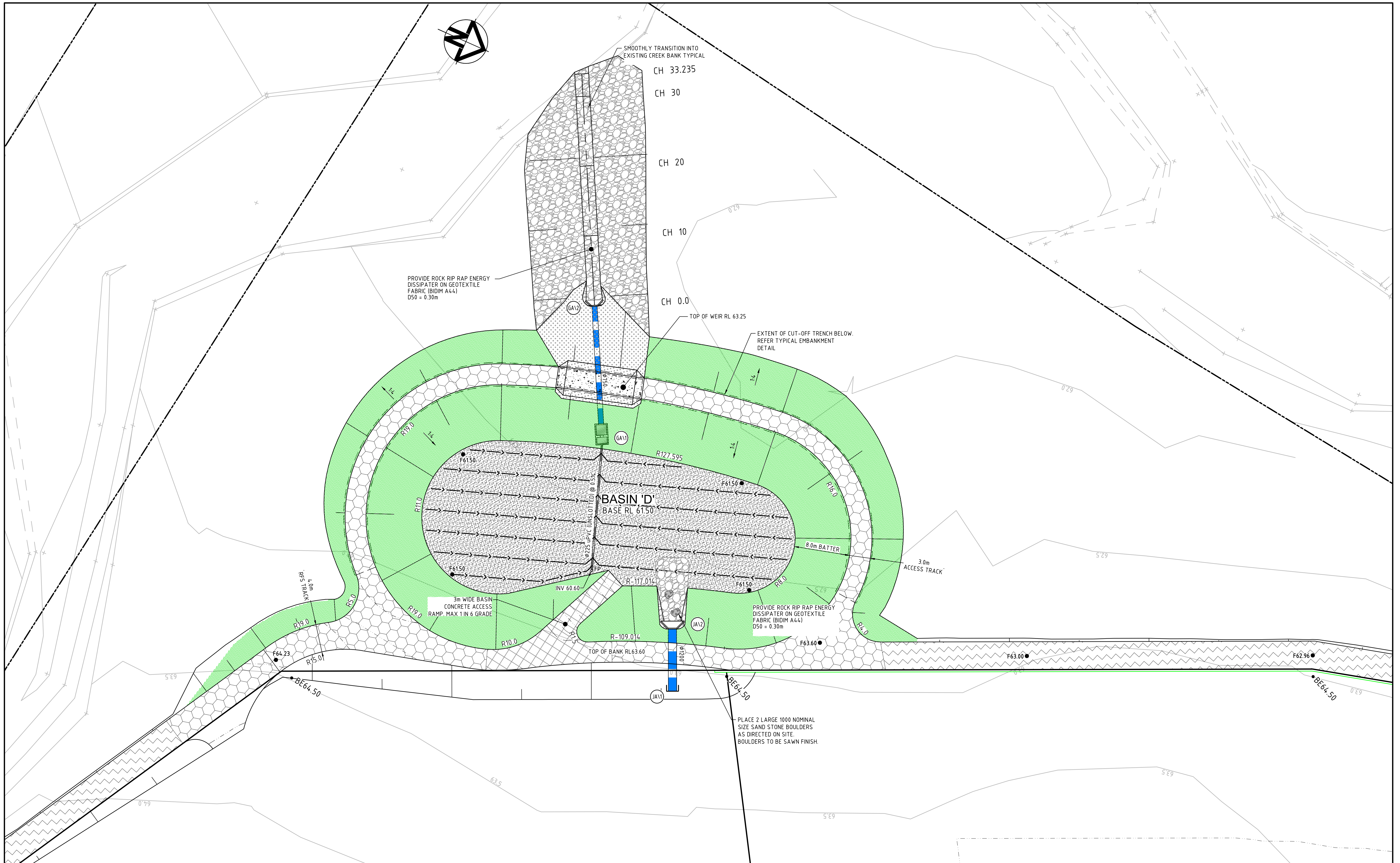
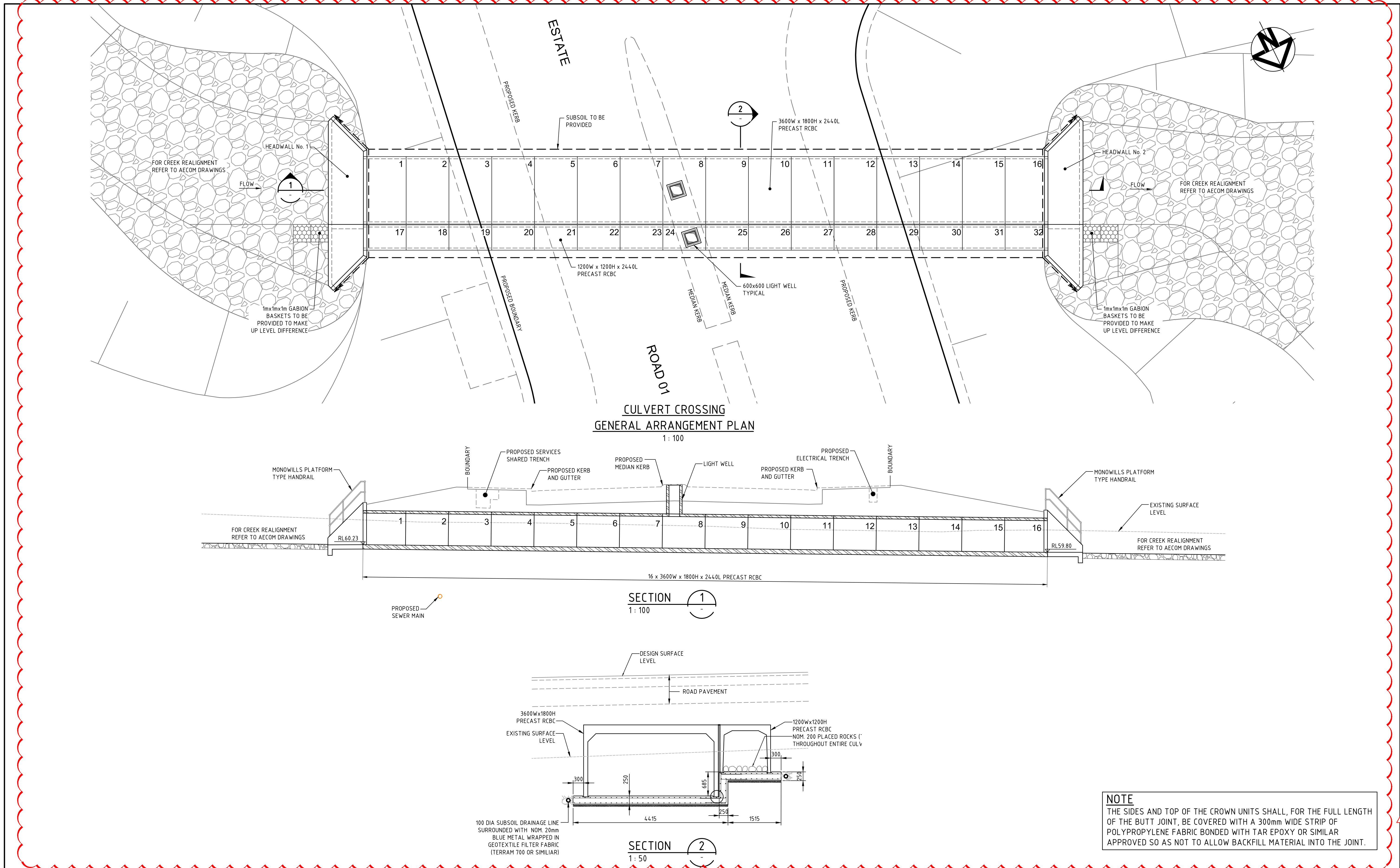




		Bar Scales		Key Plan		Client		Scales		Drawn		Project		Civil Engineers and Project Managers	
								AS SHOWN		JB		OAKDALE SOUTH ESTATE INDUSTRIAL DEVELOPMENT			
		1 : 250 @ A1 1 : 500 @ A3						MGA		Designed				Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au	
								AHD		Checked		AMc		Status	
										Approved				FOR APPROVAL	
												Title		NOT TO BE USED FOR CONSTRUCTION	
												BIO-RETENTION BASIN D DETAIL PLAN		Drawing No.	
														C1250	
														Project No.	
														14-193	
														Issue	
														C	



			Bar Scales		Key Plan	Client	Scales	AS SHOWN		Drawn	JB	Project	OAKDALE SOUTH ESTATE INDUSTRIAL DEVELOPMENT		Civil Engineers and Project Managers		
									Grid	MGA	Checked		AMc	Designed	JB	Title	STORMWATER CULVERT PLAN AND SECTIONS
					THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L	Height Datum	AHD					Approved					
								Drawing No. C1261	Project No. 14-193	Issue C							
C ISSUED FOR S96 APPLICATION			19-09-16														
B ISSUED FOR INFORMATION			15-07-16														
A ISSUED FOR SSD APPLICATION			03-09-15														
Issue			Description		Date												

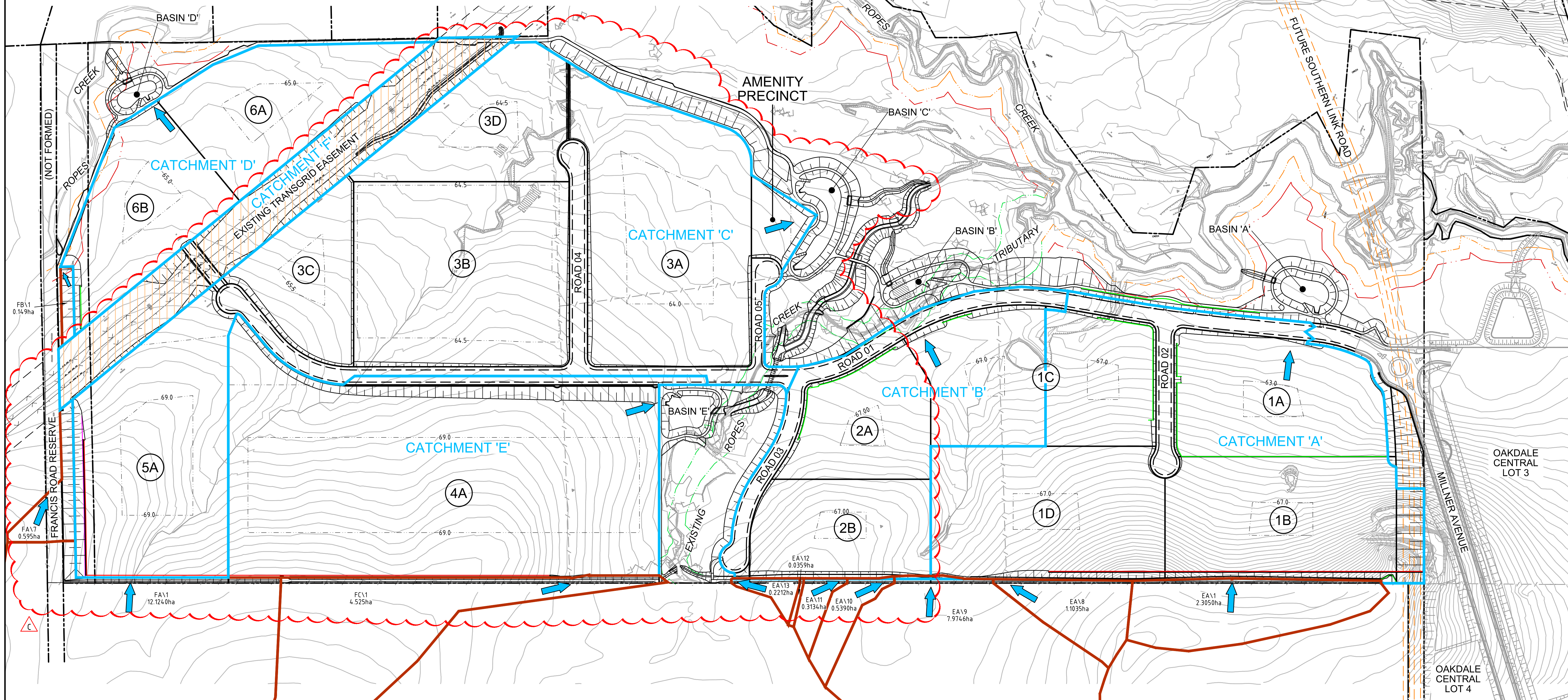
CATCHMENT	CATCHMENT AREA (Ha)	DESIGN BASIN VOLUME (m^3)	DESIGN BIO-RETENTION BASIN AREA (m^2)
A	17.37	5660	1622
B	9.44	3006	934
C	28.07	10379	2350
D	6.84	2759	928
E	14.38	4289	1885

NOTES

- 1 - STORAGE REQUIREMENT OF 250m³/Ha TO MATCH OAKDALE CENTRAL DEVELOPMENT.
- 2 - BIO-RETENTION BASINS SIZED TO ACHIEVE FOLLOWING TREATMENT RATES:
- TOTAL SUSPENDED SOLIDS = 85%
 - TOTAL PHOSPHOROUS = 65%
 - TOTAL NITROGEN = 45%

LEGEND

CATCHMENT BOUNDARY



C		ISSUED FOR S96 APPLICATION	19-09-16
B		ISSUED FOR INFORMATION	15-07-16
A		ISSUED FOR SSD APPLICATION	03-09-15
Issue	Description	Date	

Bar Scales		Key Plan		Client		Scales		Drawn		Project		Civil Engineers and Project Managers	
0 50 100 150 200 250m				Goodman		1 : 2500		JB		OAKDALE SOUTH ESTATE INDUSTRIAL DEVELOPMENT		at&I	
1 : 2500 @ A1						Grid MGA		Designed JB		Title		Level 7, 153 Walker Street North Sydney NSW 2060	
						Height Datum AHD		Checked AMc		STORMWATER CATCHMENT PLAN		ABN 96 130 882 405	
						THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&I		Approved		Status		Tel: 02 9439 1777	
										FOR APPROVAL		Fax: 02 9923 1055	
										NOT TO BE USED FOR CONSTRUCTION		www.atl.net.au	
										Drawing No.		info@atl.net.au	
										C1301		Project No.	
										14-193		Issue	
										C			