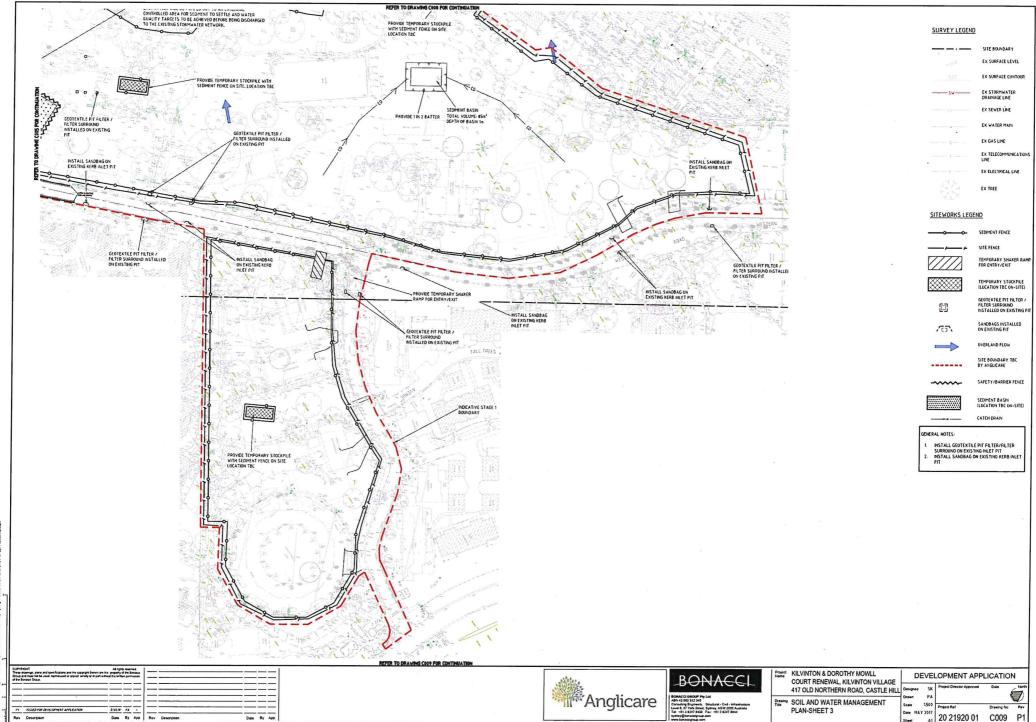


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Ner G Vontact 192001), Challe swed Des 300153001C-C009-CADP11 over Pletter: 31 P

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND HUST BE VERIFIED ON SITE. THE CONTRACTOR SHOULD SUPPLY PPECEDS LOCATIONS AND DEPTHS TO THE LOGISEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES. WARNING WARNING DIAL BEFORE NO DRAINAGE WORKS SHALL COMMENCE 8 **BEWARE OF UNDERGROUND SERVICES** YOU DIG UNTIL THE CONTRACTOR CONFIRMS THE THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE The Essential First Step ENGINEERING SUPERVISOR. SHORING WALL SHOWN INDICATIVELY ONLY. REFER TO STRUCTURAL DRAWINGS FOR DETAILS INDICATIVELY ONLY. REFER TO STRUCTURA BEL 162.655 5003 T (H 0 000 EX 174.816 BEL 162.655 EX 176.80 CH 30 DEH BEL 168.15 EX 173.8 CH 30 TOM THUMB LAGOON BEL 167.10 BEL 162.00 EX 173.04 STEEPEN BATTER AND PROVIDE SHOTERETE LOCALLY TO RETAIN EXISTING TREES (TBC) 021 1 SC02 SC02 Q C S OELH. 33 BEL 162.00 EX 1716 BEL 164.70 OSL HO INDICATIVELY ONLY. REFER TO STRUCTURAL DRAWINGS FOR DETAILS BEL 167.66 BEL 162.00 EX 172.748 BEL 164.225 EX 173.194 OFT HIS

LEGEND

	DRAINAGE LINE SHOWN INDICATIVELY ONLY		
		48.50	BULK EARTHWORKS CONTOURS
	EX SEWER LINE		SITE BOUNDARY
W	EX WATER MAIN		EX SURFACE LEVEL
6	EX GAS LINE		EX SURFACE CONTOUR
	EX TELECOMMUNICATIONS		

BEL 48.72

EX ELECTRICAL LINE

EX STORMWATER

EARTHWORKS QUANTITIES
TOTAL CUT VOLUME = 108,300m3

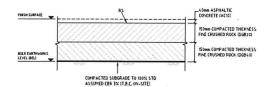
(BUILDING BASEMENT CUT VOLUME = 72,000m²)

FINISHED BULK EXCAVATION LEVEL

TOTAL FILL VOLUME = 55m3

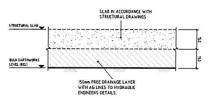
EXCAVATION NOTES

- 1 VOLUMES ARE APPROXIMATE ONLY AND DO NOT INCORPORATE BURING FACTORS AND OVER EXCAVATIONL VOLUMES HAVE BEEN CALCULATED BETWEEN EXISTING SUMPACE LEVELS AND BULK EARTHWORKS LEVELS.
- 2 GROUND WATER SEEPAGE MAY DCCUR IN EXCAVATED AREAS. DE-WATERING MAY BE REQUIRED IN THIS INSTANCE.
- THIS DRAWING ONLY DETAILS EXCAVATION ASSOCIATED WITH THE BUILDING SLAB (IGNORING STRUCTURAL FOOTINGS, BEAMS AND COLUMNS),
- FROVIDE TEMPORARY MAXIMUM 1 IN 1 BATTERS U.N.O. GEOTECH, TO CONFIRM BATTER ACCEPTABILITY. DURING CONSTRUCTION.
- THE EXCAVATED MATERIAL IS TO BE TEMPORARILY STOCKPILED WITHIN THE LANDSCAPED AREAS ITO BE COMPRHED ON-SITE! AND RE-USED AS LANDSCAPING SOIL BUILD-UP IN ACCORDANCE WITH LANDSCAPE ARCHITECTS SPECIFICATIONS.
- REFER TO ARBORIST REPORT FOR TREE PROTECTION MEASURES IF REQUIRED.
- E7 SOOmm ZONE OFFSET FROM BUILDING HAS BEEN ALLOWED FOR FORM WORK.
- SITE SURVEY SUPPLIED BY LTS LOCKLEY PTY LTD PROJECT: 33040, REF: 33880DT, REV Q. DATED 13.06.18



ACCESS ROAD BULK EXCAVATION DETAIL

SCALE 110



BUILDING BULK EXCAVATION DETAIL

SCALE 1:10

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED



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BONACCL

Name	COURT RENEWAL, KILVINTON 417 OLD NORTHERN ROAD, CA	
Drawing Title	BULK EARTHWORKS PLAN	
Title	BOLK EARTHWORKS PLAN	

HYMOWLL
ILIVINTON VILLAGE
ROAD, CASTLE HILL
Occupied J.F.
SPLAN
Sea 1500
Dee DEC 1500
DE

20 21920 01 C010 P4

Fig. d'Act d'21 2001 Chillissue Deg 2021 (2001 C.Colo CADPA) deg Petret 05.03

REFER TO ARBORIST REPORT FOR TREE PROTECTION MEASURES IF REQUIRED. CASTLE HILL ROAD PROVIDE 1 IN 1 BATTER PROVIDE 1 IN 1 BATTER SHORING WALL SHOWING NDICATIVELY ONLY. REFER TO STRUCTURAL DRAWINGS FOR DETAILS SHORING WALL SHOWING INDICATIVELY ONLY. REFER TO STRUCTURAL DRAWINGS FOR DETAILS DESIGN GRADELINE HORIZONTAL GEOMETRY DATUM 156.6 EARTHWORKS 167.408 EXISTING SURFACE CHAINAGES 1 in 500 HORIZONTAL 1 in 100 VERTICAL SC01 LONGITUDINAL SECTION

EXCAVATION NOTES

VOLUMES ARE APPROXIMATE OILLY AND DO NOT INCORPORATE BULKING FACTORS AND OVER EXCAVATION, VOLUMES HAVE BEEN CALCULATED BETWEEN EXISTING SURFACE LEVELS AND BULK EARTHWORKS LEVELS.

GROUND WATER SEEPAGE MAY OCCUR IN EXCAVATED AREAS, DE-WATERING MAY BE REQUIRED IN THIS INSTANCE.

THIS DRAWING ONLY DETAILS EXCAVATION ASSOCIATED WITH THE BUILDING SLAB (IGNORING STRUCTURAL FOOTINGS, BEAMS AND COLUMNS). E3

PROVIDE TEMPORARY MAXIMUM 1 IN 1 BATTERS U.N.O. GEOTECH TO CUMPIRH BATTER AECEPTABILITY DURING CONSTRUCTION

THE EXCAVATED MATERIAL IS TO BE TEMPORARILY STOCKPILED WITHIN THE LANDSCAPED AREAS (TO BE COMPRISED ON-SITE) AND RE-USED AS LANDSCAPING SOIL BUILD-UP IN ACCORDANCE WITH LANDSCAPE ARCHITECTS SPECIFICATIONS.

SOCIEM ZONE OFFSET FROM BUILDING HAS BEEN ALLOWED FOR FORM WORK.

SITE SURVEY SUPPLIED BY LTS LOCKLEY PTY LTD PROJECT: 33040, REF: 33860DT, REV Q. DATED 13.06.18

LEGEND



CUT FROM EXISTING SURFACE TO BULK EARTHWORK LEVEL

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

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OMICEL	417 OLD NORTHERN ROAD, C
GROUP Pty Ltd C 312 345 Engineers, Structural - Civil - Inhastructure	Drawing BULK EARTHWORKS
York Street, Syoney, NSW 2000 Australia E247 8400 Fax: +61 2 8247 8444 onarogroup.com	LONGITUDINAL SECTIONS

	Project Name	KILVINTON & DOROTHY MOWLL COURT RENEWAL, KILVINTON VILLAGE 417 OLD NORTHERN ROAD, CASTLE HILI
ı	Drawing	BULK EARTHWORKS

LAGE	DEVELOPMENT APPLICATION			
LE HILL	Designed JF Drawn JF	Project Director Approved	Date	- 1
	Scale 1500	Project Ref	Drawing No	
	Date DEC 2018	20 21920 01	C020	1

CASTLE HILL ROAD PROVIDE 1 IN 1 BATTER BUILDING B14-B17 PROVIDE 1 IN 1 BATTE DESIGN GRADELINE HORIZONTAL GEOMETRY **DATUM 155.9** EARTHWORKS EXISTING SURFACE CHAINAGES 1 in 500 HORIZONTAL 1 in 100 VERTICAL SC02 LONGITUDINAL SECTION

EXCAVATION NOTES

- ET VOLUMES ARE APPROXIMATE ONLY AND DO NOT INCORPORATE BULKING FACTORS AND OVER EXCAVATION VOLUMES HAVE BEEN CALCULATED BETWEEN EXISTING SURFACE LEVELS AND BULK EARTHWORKS LEVELS.
- GROUND WATER SEEPAGE MAY OCCUR IN EXCAVATED AREAS, DE-WATERING MAY BE REQUIRED IN THIS DISTANCE.
- E3 THIS DRAWING ONLY DETAILS EXCAVATION ASSOCIATED WITH THE BUILDING SLAB (IGNORING STRUCTURAL FOOTINGS, BEAMS AND COLUMNS).
- E4 PROVIDE TEMPORARY MAXIMUM 1 IN 1 BATTERS U.N.O. GEOTECH TO CONFRM BATTER ACCEPTABILITY DURING CONSTRUCTION.
- ES THE EXCAVATED MATERIAL IS TO BE TEMPORABLY STOCKPILED WITHIN THE LANDSCAPED AREAS (TO BE COMPRISED ON-SITE) AND RE-USED AS LANDSCAPING SCIL BUILD-UP IN ACCORDANCE WITH LANDSCAPE ARCHITECTS SPECIFICATIONS.
- E6 REFER TO ARBORIST REPORT FOR TREE PROTECTION MEASURES IF REQUIRED.
- E7 SCOMM ZONE OFFSET FROM BUILDING HAS BEEN ALLOWED FOR FORM WORK
- E8 SITE SURVEY SUPPLIED BY LTS LOCKLEY PTY LTD PROJECT: 33040, REF. 33880DT, REV Q, DATED 13:06:18

LEGEND



CUT FROM EXISTING SURFACE TO BULK EARTHWORK LEVEL

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AN 42 000 312 345	E-100
Consulted Engineers	Structural - Civil - Infrastructure
Level S. 37 York Street	Sydney, NSW 2000 Australa
Tet +01 2 #247 \$400	Fax: -01 2 8247 8444
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unus bonaccomo e	

Project Name	KILVINTON & DOROTHY MOWLL
	COURT RENEWAL, KILVINTON VILLAGE
	417 OLD NORTHERN ROAD, CASTLE HILI
Drawing	BULK FARTHWORKS

Drawing Title	BULK EARTHWORKS	
	LONGITUDINAL SECTIONS	
	SHEET 2	

.AGE .E HILL	DEVELOPMENT APPLICATION			
	Designed JF Drawn JF	Project Director Approved	Date (Nor
	Scale 1500	Project Ref	Drawing No	Rev
	Date DEC 2018 Sheet A1	20 21920 01	C021	P

EXCAVATION NOTES

- ET VOLUMES ARE APPROXIMATE ONLY AND DO NOT INCORPORATE BULKING FACTORS AND OVER EXCAVATION. VOLUMES MAVE BEEN CALCULATED BETWEEN EXISTING SURFACE LEVELS AND BULK EARTHWORKS LEVELS.
- 2 GROUND WATER SEEPAGE MAY OCCUR IN EXCAVATED AREAS, DE-WATERING MAY BE REQUIRED IN THIS INSTANCE.
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- E4 PROVIDE TEMPORARY MAXIMUM 1 IN 1 BATTERS U.N.O. GEOTECH TO CONFRIM BATTER ACCEPTABILITY DURING CONSTRUCTION
- ES THE EXCAVATED MATERIAL IS TO BE TEMPORAPILY STOCKPILED WITHIN THE LANDSCAPED AREAS ITO BE COMPRISED ON-SITE! AND RE-USED AS LANDSCAPING SOIL BUILD-UP IN ACCORDANCE WITH LANDSCAPE ARCHITECTS SPECIFICATIONS.
- 6 REFER TO ARBORIST REPORT FOR TREE PROTECTION MEASURES IF REQUIRED.
- E7 SOOMM ZONE OFFSET FROM BUILDING HAS BEEN ALLOWED FOR FORM WORK
- E8 SITE SURVEY SUPPLIED BY LTS LOCKLEY PTY LTD PROJECT: 33040, REF: 33880DT, REV Q, DATED 13:06:18

LEGEND



CUT FROM EXISTING SURFACE TO BULK EARTHWORK LEVEL

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ABN 41 060 332 348	
Consulting Engineers.	Structural - Cref - Infrastructure
Level 5, 37 York Street	Sydney, NSW 2000 Australia
Tet. +61 2 8247 \$400	Fax: +61 2 8247 8444

Project Name	KILVINTON & DOROTHY MOWLL COURT RENEWAL, KILVINTON VILLAGE 417 OLD NORTHERN ROAD, CASTLE HIL
Drawing	DIII V EADTHWODKS

	417 OLD NONTHERN ROAD, CAST
peting	BULK EARTHWORKS
	LONGITUDINAL SECTIONS
	SHEET 3

0.000	DEVE	OPMENT APP	LICATION	V	
LLAGE TLE HILL	Designed JF Drawn JF	Project Director Approved	Date North		
	Scale 1,500 Date DEC 2018	Project Ref	Drawing No	Rev	
	Sheet A1	20 21920 01	C022	P3	

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- E2 GROUND WATER SEEPAGE MAY OCCUR IN EXCAVATED AREAS, DE-WATERING MAY BE REQUIRED IN THIS HISTAINCE.
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- THE EXCAVATED MATERIAL IS TO BE TEMPORABLY STOCKPILED WITHIN THE LANDSCAPED. AREAS 110 BE CONFIRMED ON-SITE) AND RE-USED AS LANDSCAPING SDIL BUILD-UP IN ACCORDANCE WITH LANDSCAPE ARCHITECTS SPECIFICATIONS.
- E6 REFER TO ARBORIST REPORT FOR TREE PROTECTION MEASURES IF REQUIRED.
- E7 SCOMM ZONE OFFSET FROM BUILDING HAS BEEN ALLOWED FOR FORM WORK
- E8 SITE SURVEY SUPPLIED BY LTS LOCKLEY PTY LTD PROJECT: 33040, REF-33880DT, REV Q, DATED 13:06.18

LEGEND



CUT FROM EXISTING SURFACE TO BULK EARTHWORK LEVEL





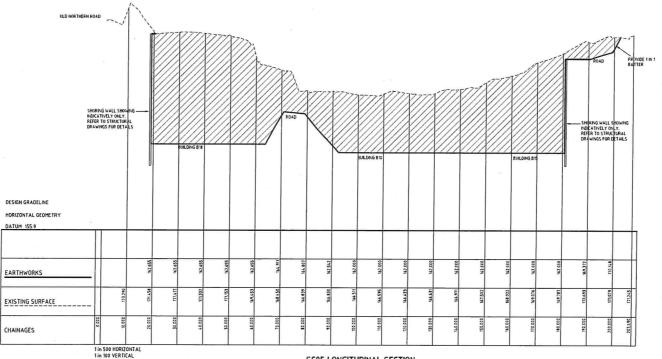
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Level 8, 37 Yen Stevet, Systemy, InSW 2000 Australia
Tel - 101 2027 400 F Systemy, InSW 2000 Australia
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Project Name	KILVINTON & DOROTHY MOWLL COURT RENEWAL, KILVINTON VILLAGE	DEVE	LOPMENT APP	LICATION
	417 OLD NORTHERN ROAD, CASTLE HILL		Project Director Approved	Date North
Drawing Title	BULK EARTHWORKS LONGITUDINAL SECTIONS SHEET 4	Drawn JF Scale 1500 Date DEC 2018 Sheet A1	Project Ref 20 21920 01	Dreating No Rev

EXCAVATION NOTES

- ET VOLUMES ARE APPROXIMATE ONLY AND DO NOT INCORPORATE BULKING FACTORS AND OVER EXCAVATION, VOLUMES HAVE BEEN CALCULATED BETWEEN EXISTING SURFACE LEVELS AND BULK EARTHWORKS LEVELS.
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- ES THE EXCAVATED MATERIAL IS TO BE TEMPORARILY STOCKPLED WITHIN THE LANDSCAFED AREAS ITO BE COMERNEO ON-SITEI AND RE-USED AS LANDSCAPING SOIL BUILD-UP IN ACCORDANCE WITH LANDSCAPE AROTHECTS SPECIFICATIONS.
- 6 REFER TO ARBORIST REPORT FOR TREE PROTECTION MEASURES IF REQUIRED.
- E7 SCOMM ZONE OFFSET FROM BUILDING HAS BEEN ALLOWED FOR FORM WORK.
- E6 SITE SURVEY SUPPLIED BY LTS LOCKLEY PTY LTD PROJECT: 33040, REF: 33660DT, REV Q. DATED



SC05 LONGITUDINAL SECTION

LEGEND



CUT FROM EXISTING SURFACE TO BULK EARTHWORK LEVEL

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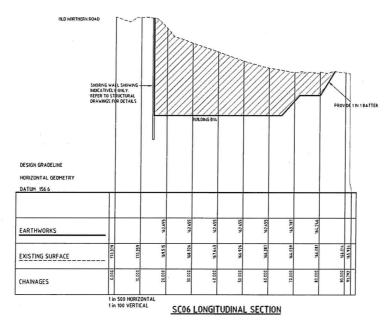




Project Name	KILVINTON & DOROTHY MOWLL COURT RENEWAL, KILVINTON VILLA 417 OLD NORTHERN ROAD, CASTLE
Drawing Title	BULK EARTHWORKS
	LONGITUDINIAL SECTIONS

SHEET 5

AGE E HILL	DEVELOPMENT APPLICATION									
	Designed JF Drawn JF	Project Director Approved	Date North							
	Scale 1:500 Date DEC 2018 Sheet A1	20 21920 01	C024	P4						



EXCAVATION NOTES

- VOLUMES ARE APPROXIMATE ONLY AND DO NOT INCORPORATE BULKING FACTORS AND OVER EXCAVATION, VOLUMES HAVE BEEN CALCULATED BETWEEN EXISTING SURFACE LEVELS AND BULK EARTHWORKS LEVELS.
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- REFER TO ARBORIST REPORT FOR TREE PROTECTION MEASURES IF REQUIRED.
- SCORM ZONE OFFSET FROM BUILDING HAS BEEN ALLOWED FOR FORM WORK.
- SITE SURVEY SUPPLIED BY LTS LOCKLEY PTY LTD PROJECT: 33040, REF: 33860DT, REV Q. DATED 13:06:18

LEGEND



CUT FROM EXISTING SURFACE TO BULK EARTHWORK LEVEL

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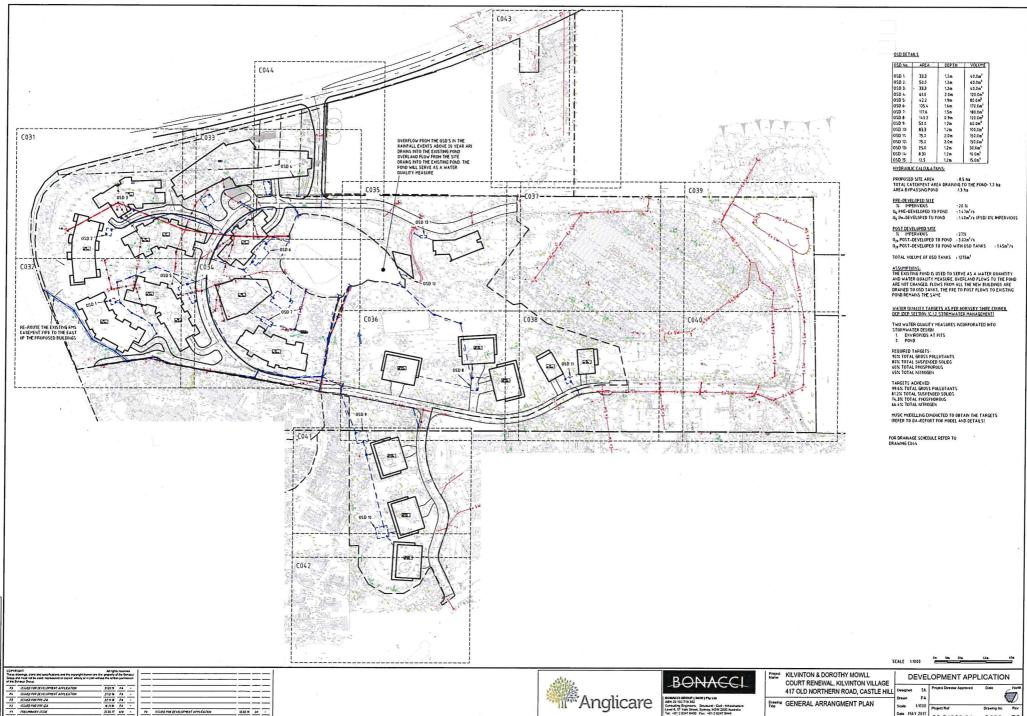




Name	COURT RENEWAL, KILVINTON VILLAGE 417 OLD NORTHERN ROAD, CASTLE I
Drawing Title	BULK EARTHWORKS
25.00	LONGITUDINAL SECTIONS
	SHEET 6

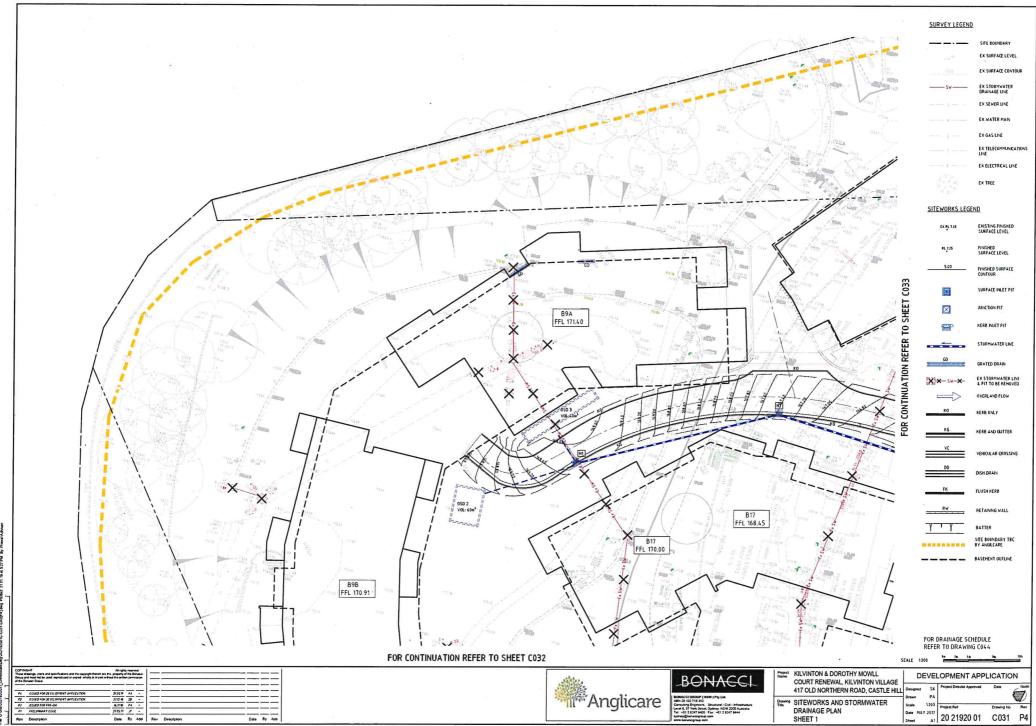
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LD NORTHERN ROAD, CASTLE HILL	Designed	JF	Proj
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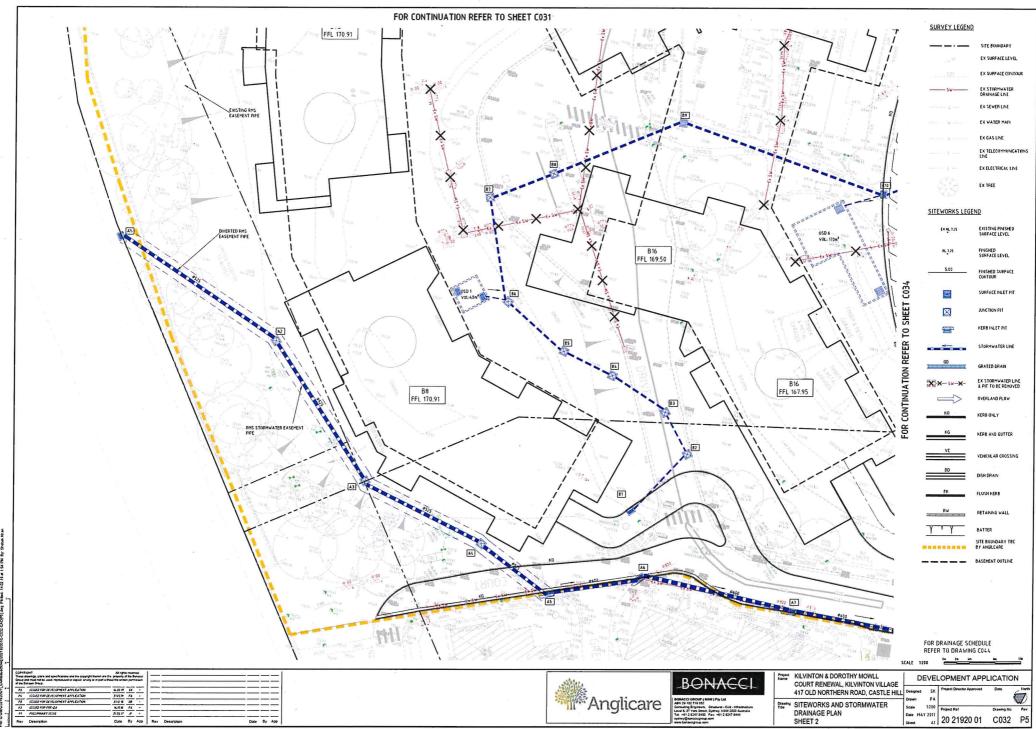
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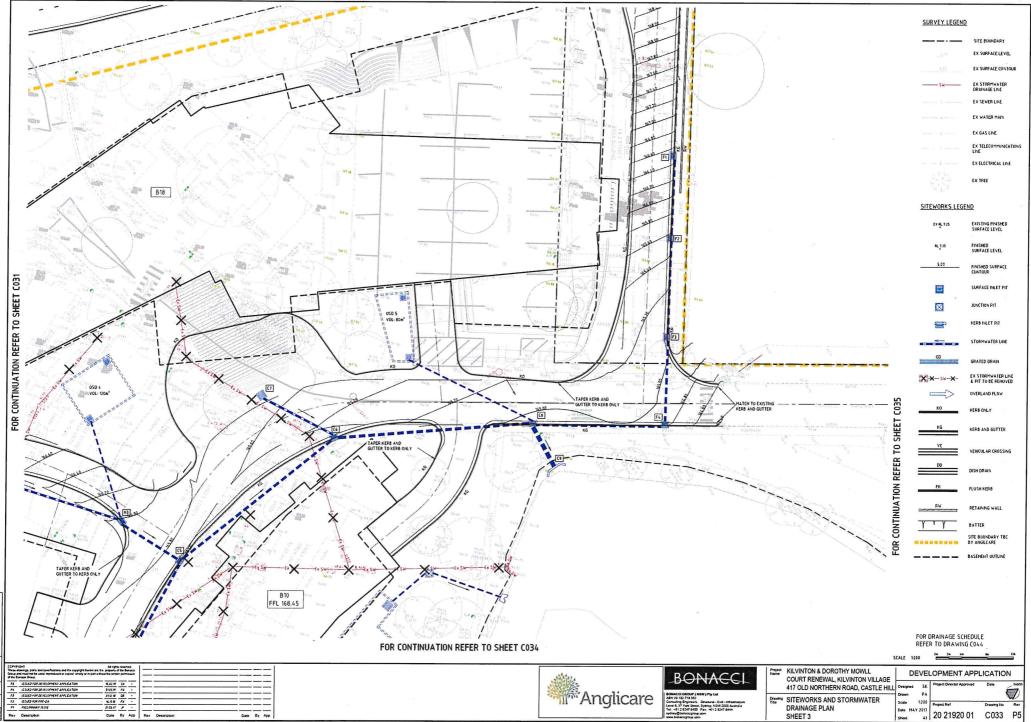


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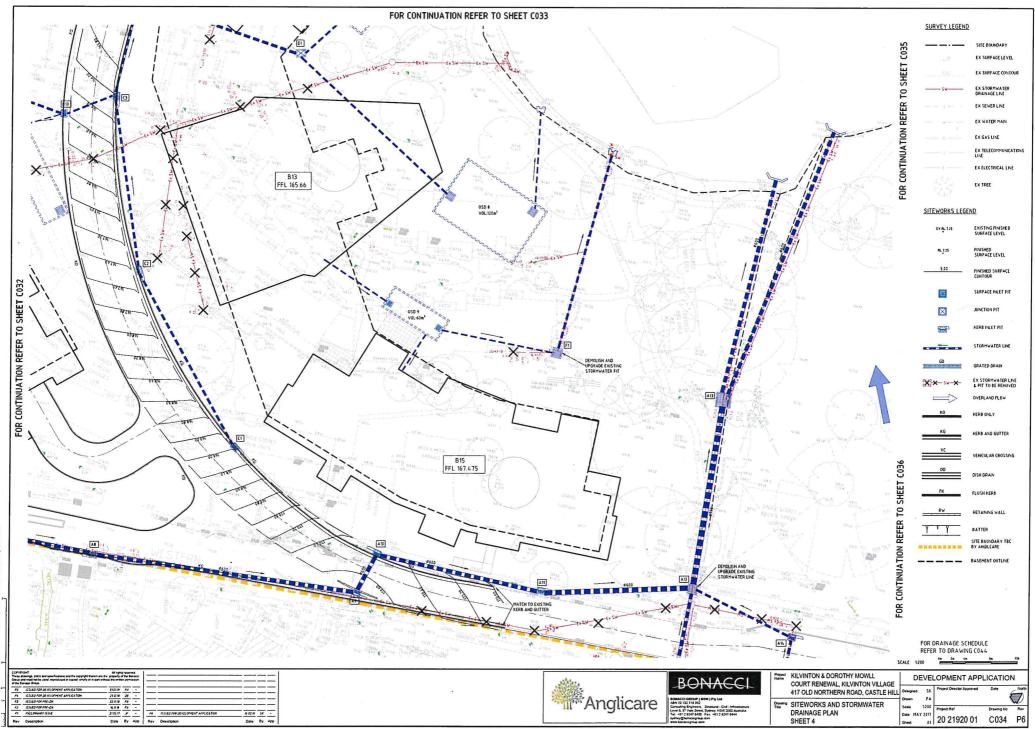
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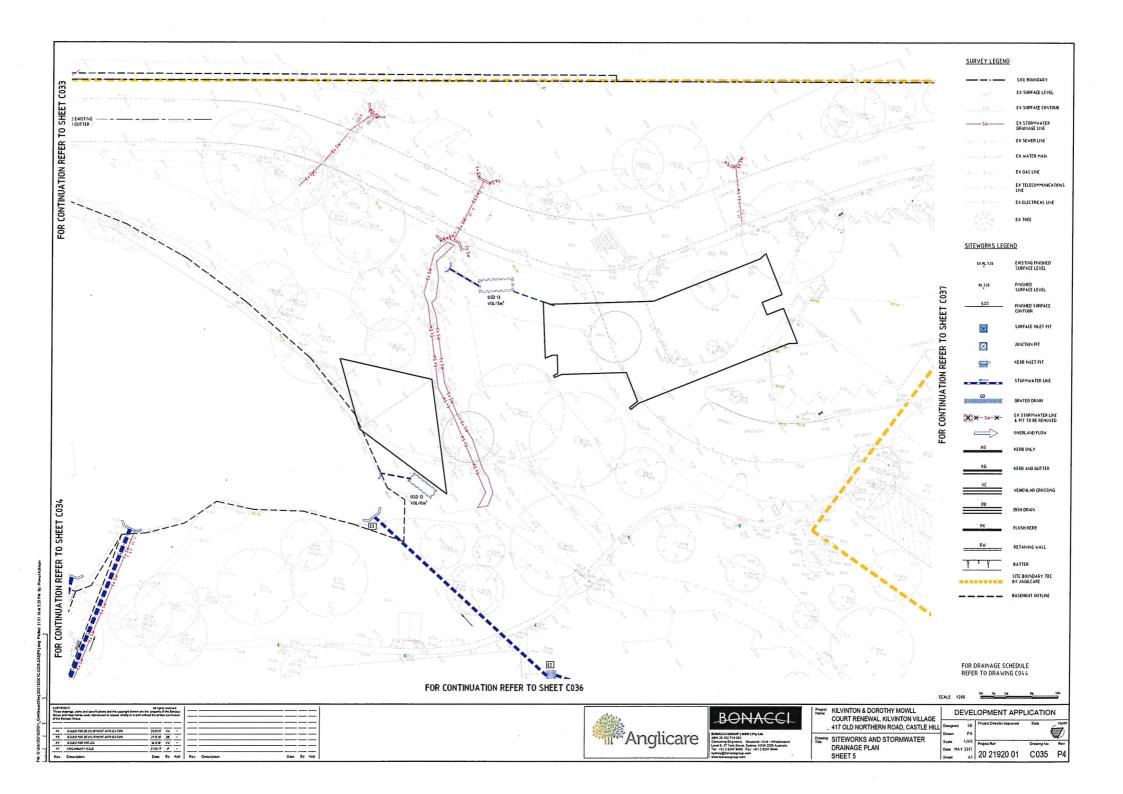


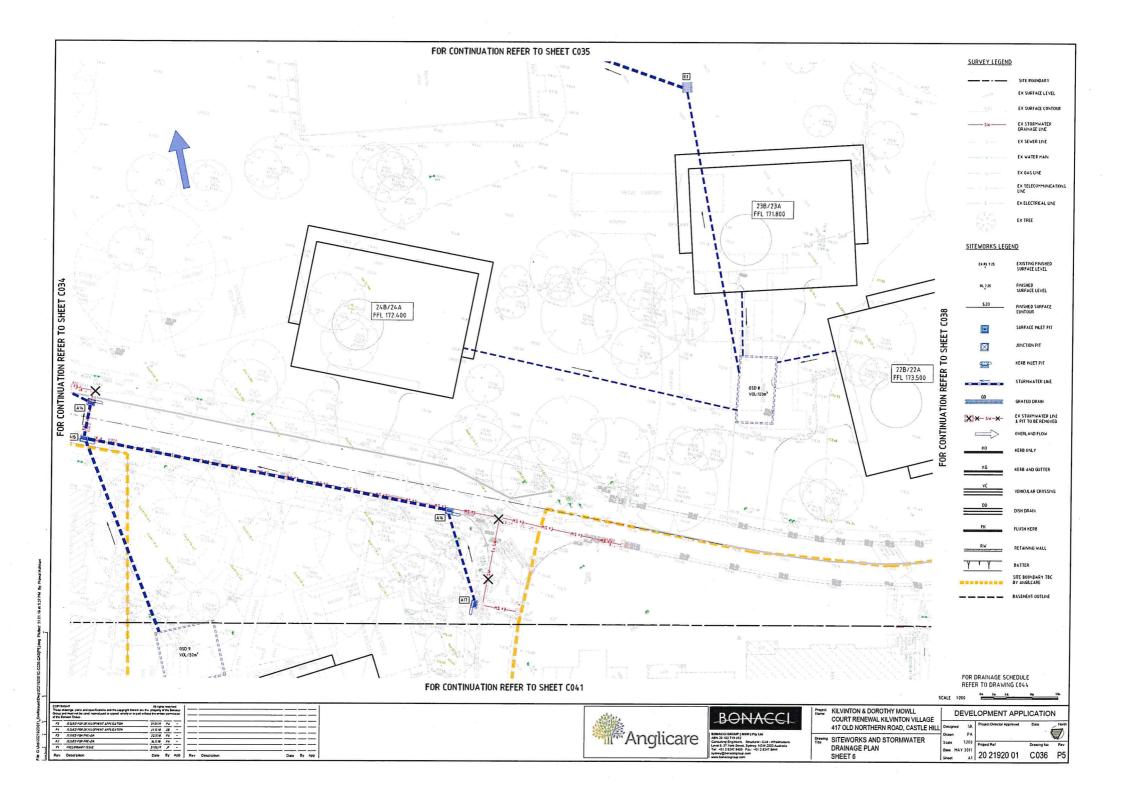


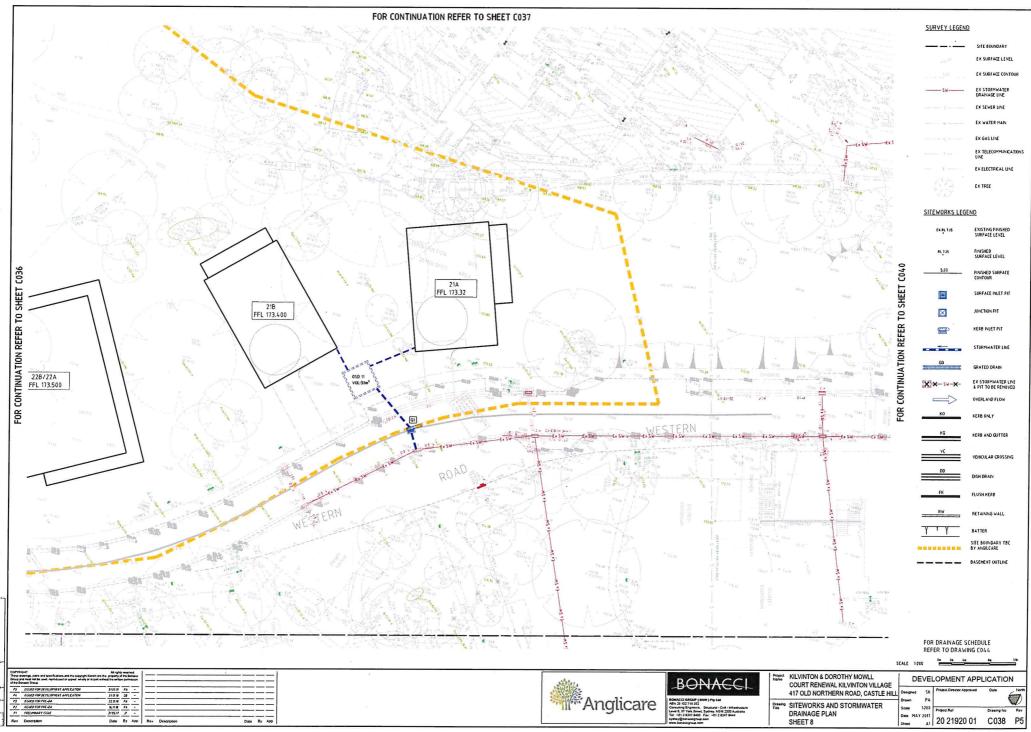


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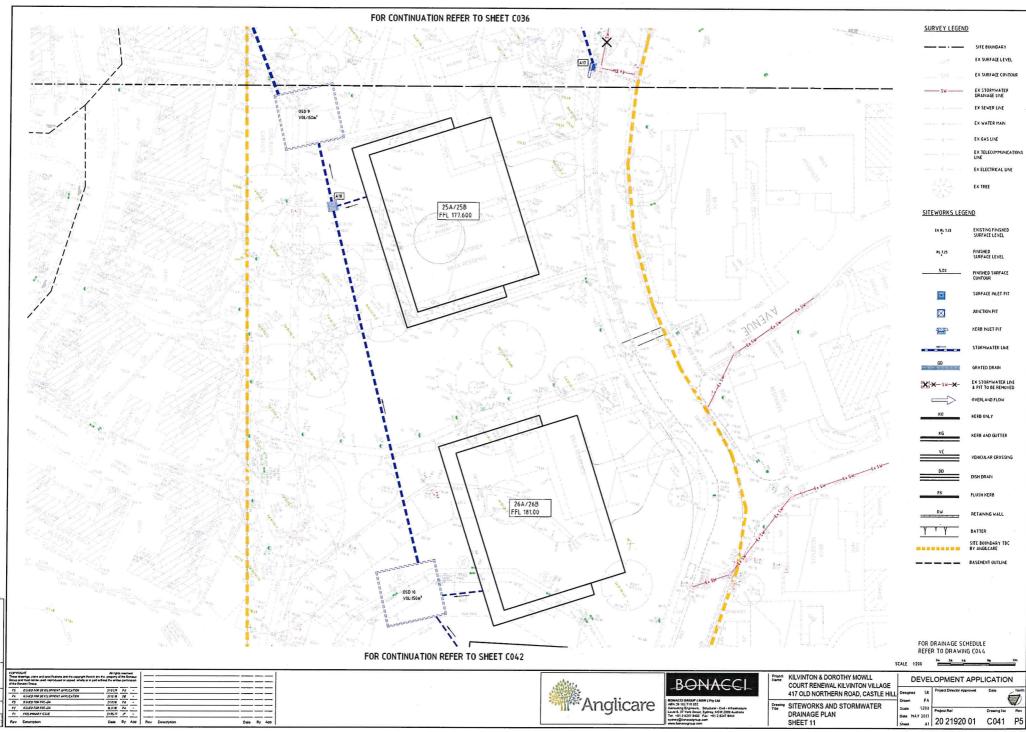




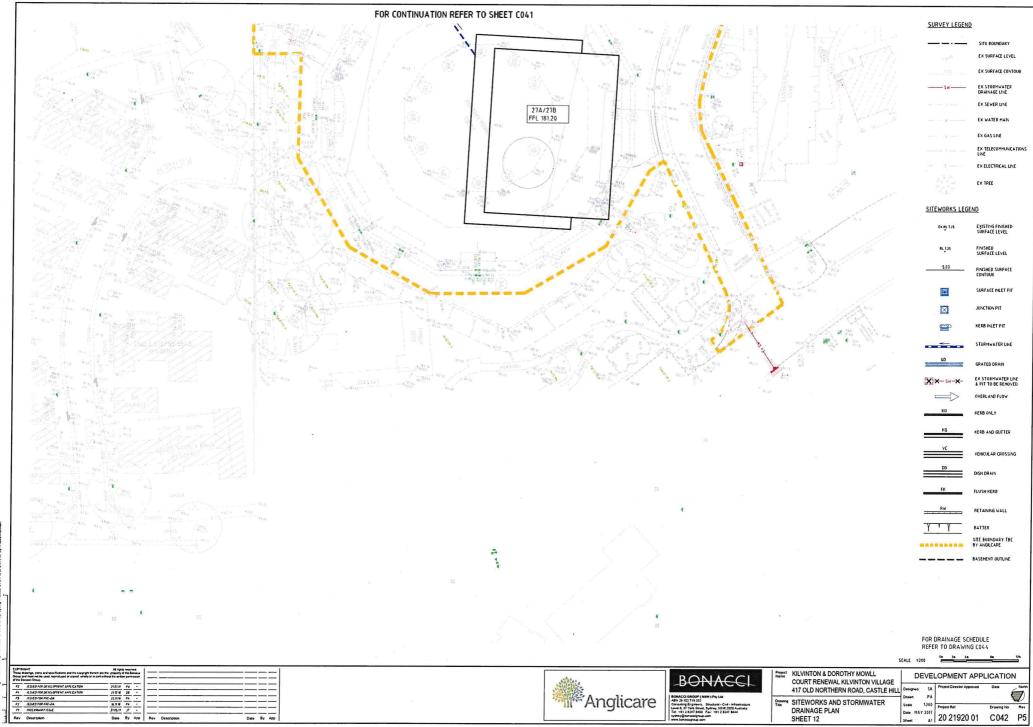




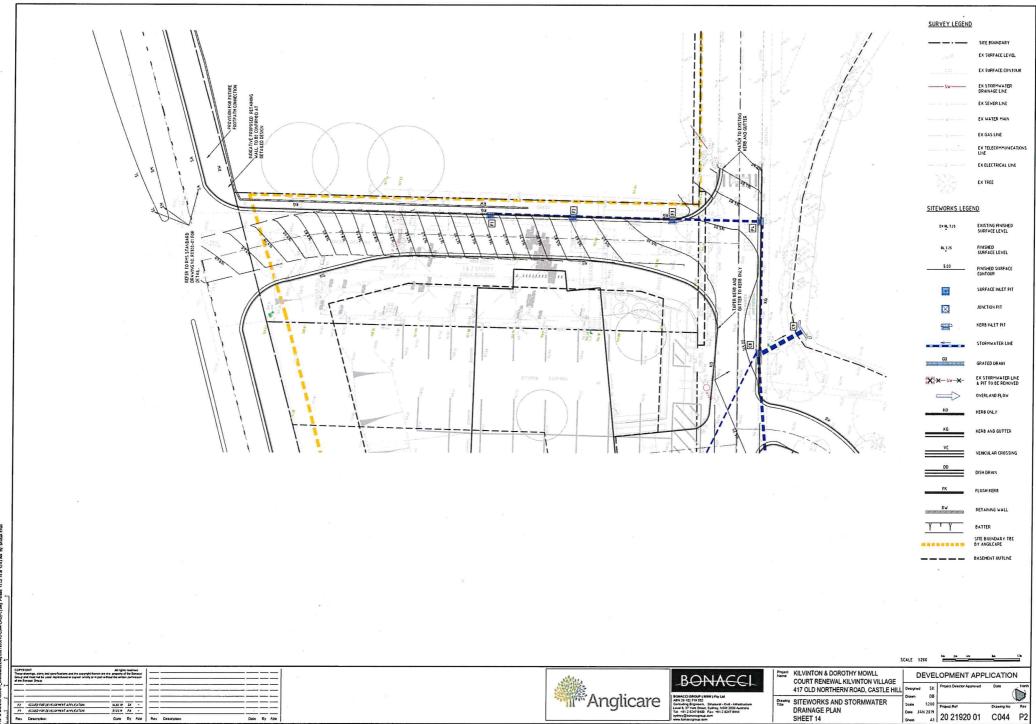
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SHEET 14

Date By App

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A2	173.00	172.10
A3	172.7	171.7
A4	173	171.49
A5	172.94	171.37
A6	172.61	171.22
A7	171.9	170.55
A8	171.65	170.3
A9	170.69	169.3
A10	170.4	169.25
A11	169.95	168.6
A12	169.2	167.7
A13	167.65	166.15
A14	169.83	168.73
A15	169.83	168.78
A16	173.69	172.45
A17	175.08	174
A18	177.5	176.2
B1	171.5	170.68
B2	171.9	170.58
B3	171.7	170.51
B4	171.42	170.3
B5	171.2	169.8
B6	170.6	169.4
B7	169.95	168.5
B8	169.85	167.9
B9	169.2	166.8
B10	166.2	165.22
C1 .	169.2	168.2
C2	167.45	166.48
C3	166	164.95
C4	165.55	164.42
C5	165.8	164.75
C6	165.38	164.23
C7	166	165.2
C8	165	164.1
E1	168.9	167.9
E2	168.1	167.25
F1	168	167.02
F2	166	165.02
F3	165	164.02
F4	164.9	163.96
G1	173.67	172.29
H1	169.5	168.5
H2	167.4	166.4
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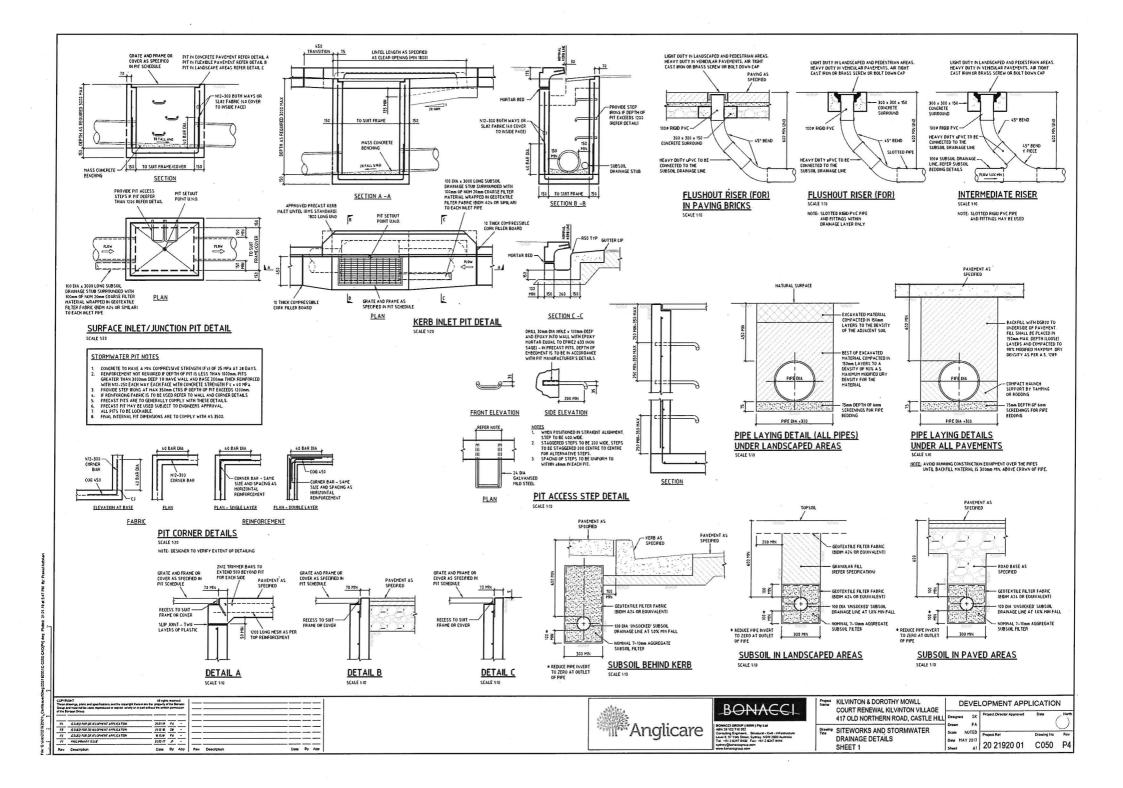


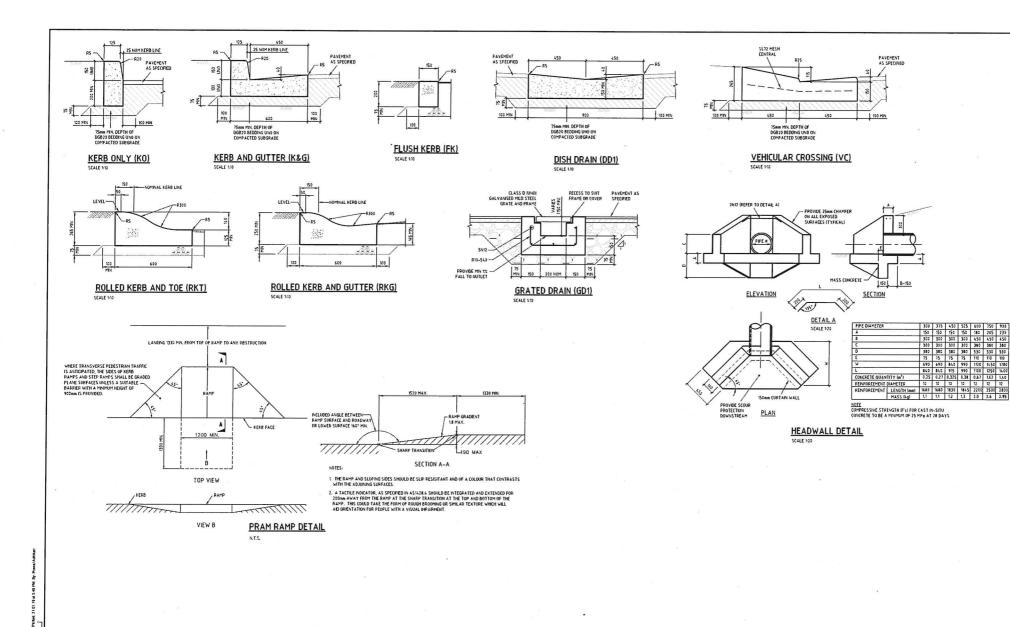


Drawing	STORMWATER
	417 OLD NORTHERN ROAD, CASTLE HILL
	COURT RENEWAL KILVINTON VILLAGE
Name	METHOD & BONDINI MONEL

rawing Se	STORMWATER
	DRAINAGE SCHEDULE
	HYDRAULIC DESIGN CALCULATIONS

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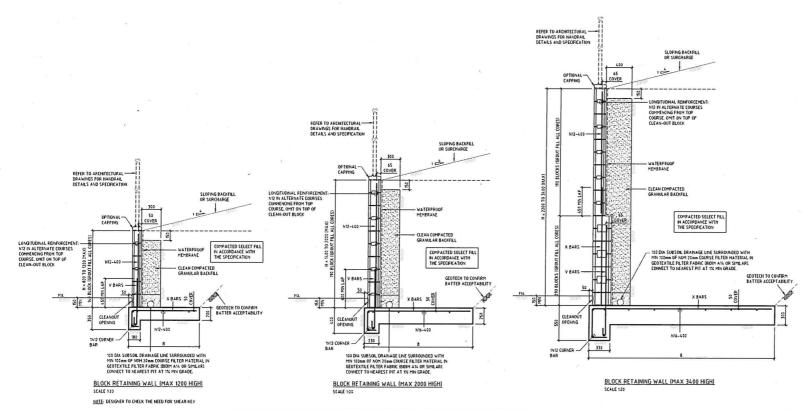
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7.	FREE PRIMARY ISSUE	310517	-	_	_			-	_





		417 OLD NORTHERN ROA
-	Drawing Tale	SITEWORKS AND STOP DRAINAGE DETAILS
		SHEET 2

KILVINTON & DOROTHY MOWLL	DEVELOPMENT APPLICATION				
COURT RENEWAL KILVINTON VILLAGE 417 OLD NORTHERN ROAD, CASTLE HILL	Designed SK	Project Director Approved	Date Nor		
SITEWORKS AND STORMWATER DRAINAGE DETAILS	Drawn PA Scale NOTED Date HAY 2017 Sheet A1	Project Ref	Drawing No Re		
SHEET 2		20 21920 01	C051 P		



BLOCK RETAINING WALL BASE TYPE 1										
WALL HEIGHT			REINFORCEMENT		BASE DIMENSIONS					
TOTAL HEIGHT (mm) H	HEIGHT OF BLOCKWORK			X-BARS AND	K-BARS	WIDTH, B (mm) WITH FOLLOWING BACKFILL CONDITIONS				
	150 SERIES	200 SERIES	300 SERIES	V-BARS	N-DAKS	LEVEL	MAX 1:4 SLOPE			
800	800		-	N12-400		800	1000			
1000	1000	-		N12-400	-	1000	1200			
1200	1200		-	N12-400	-	1100	, 1500			
1400	-	1400	-	N12-400		1300	1700			
1600	-	1600	-	N16-400		1400	2000			
1800		1800		N16-400		1600	2200			
2000	-	2000	9	N16-260		1700	2500			
2200	-	14.00	800	N16-400	N16-400	1900	2800			
2400		1600	800	N16-400	N16-400	2000	3100			
2600		1600	1000	N20-400	N20-400	2200	3300			
2800		1800	1008	N20-400	N20-400	2400	3600			
3000	-	2000	1000	N16-200	N16-200	2600	3900			
3200		5000	1200	N20-200	N16-200	2800	4200			
3400		2000	1400	N20-200	N16-200	2900	4500			

Date By App Rev Description Date By App



WESTERN ROAD, CASTLE HILL

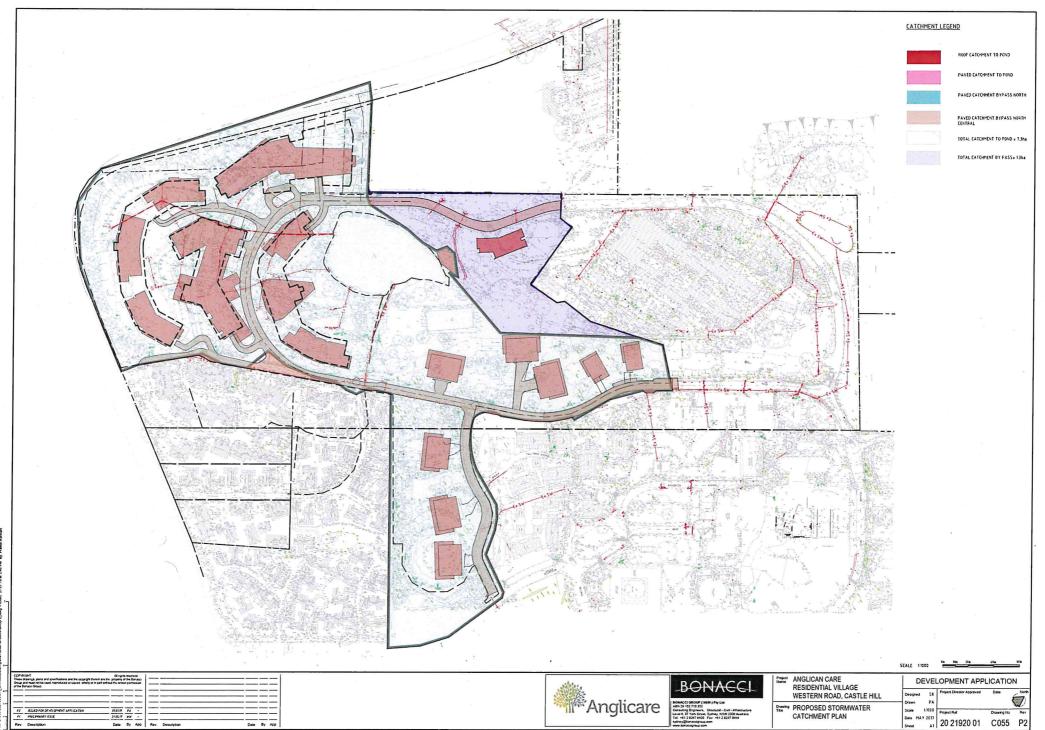
DEVELOPMENT APPLICATION

Drains SITEWORKS AND STORMWATER DRAINAGE DETAILS SHEET 3

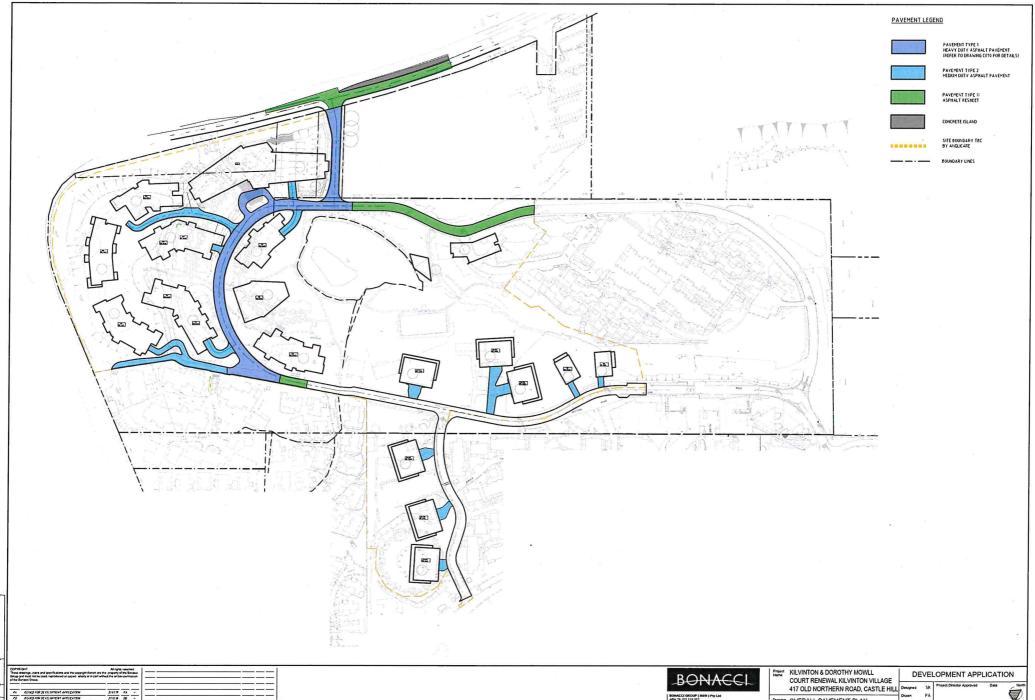
RESIDENTIAL VILLAGE

ANGLICAN CARE

Scale 120, 10 Project Ref Date MAY 2017 20 21920 01 C052 P2



Date By App



TEN OVERALL PAVEMENT PLAN

Scale 1,000 Project Ref Drawing No Rev Date MAY 2017
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