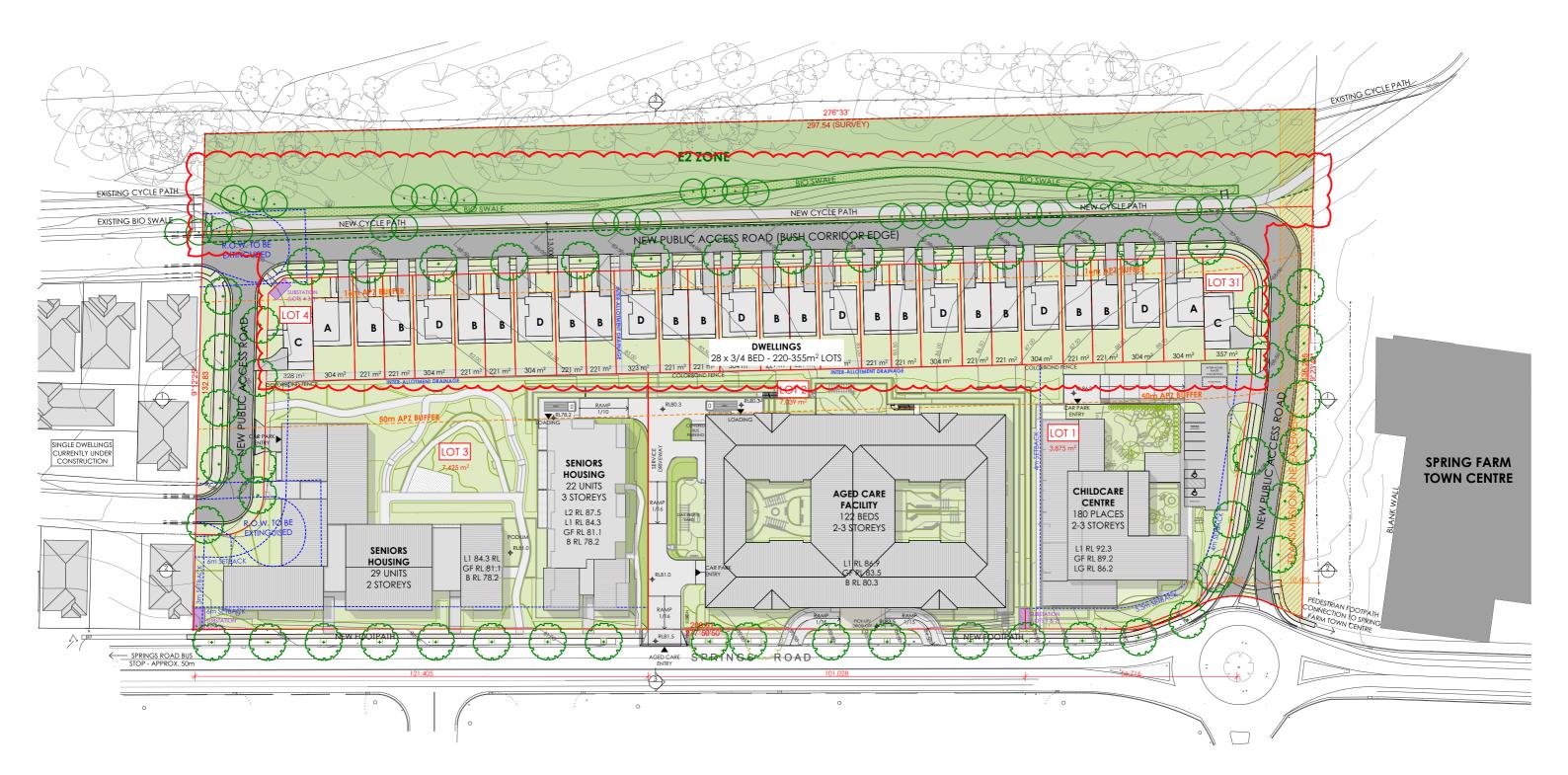


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NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT
А	07/02/2019	PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2
В	30/05/2019	FOR CONSULTANT ISSUE	G	18/06/2020	FOR RFI ISSUE 3
E	03/12/2019	FOR RFI ISSUE			
-	A B C D	B 30/05/2019 C 28/06/2019 D 19/07/2019	NO. DATE AMENDMENT A 07/02/2019 PRE-DA REVISIONS B 30/05/2019 FOR CONSULTANT ISSUE C 28/06/2019 FOR CONSULTANT ISSUE D 19/07/2019 FOR DEVELOPMENT APPLICATION E 03/12/2019 FOR RFI ISSUE	A 07/02/2019 PRE-DA REVISIONS F B 30/05/2019 FOR CONSULTANT ISSUE G C 28/05/2019 FOR CONSULTANT ISSUE G D 19/07/2019 FOR DEVELOPMENT APPLICATION FOR DEVELOPMENT APPLICATION	A 07/02/2019 PRE-DA REVISIONS F 17/04/2020 B 30/05/2019 FOR CONSULTANT ISSUE G 18/06/2020 C 28/06/2019 FOR CONSULTANT ISSUE G 18/06/2020 D 19/07/2019 FOR DEVELOPMENT APPLICATION FOR DEVELOPMENT APPLICATION

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RALONG STREET	DN	BT PROJECT NO.	MH	18/06/2020 DRAWING NO.	1:1000 REVISION
W 2533 25	BHI ARCHITECTS	8723		A.1001	G

STAGE 1: CHILDCARE CENTRE & AGED CARE FACILITY

CHILDCARE CENTRE - LOT 1 180 PLACES

TOTAL GFA: 1,430m²

LOT AREA: 3,875m²

AGED CARE FACILITY - LOT 2 122 BEDS

TOTAL GFA: 6,697m²

LOT AREA: 7,039m²

SENIORS HOUSING - LOT 3

51 UNITS

TOTAL GFA: APPROX. 4,906m²

LOT AREA: 7,425m²

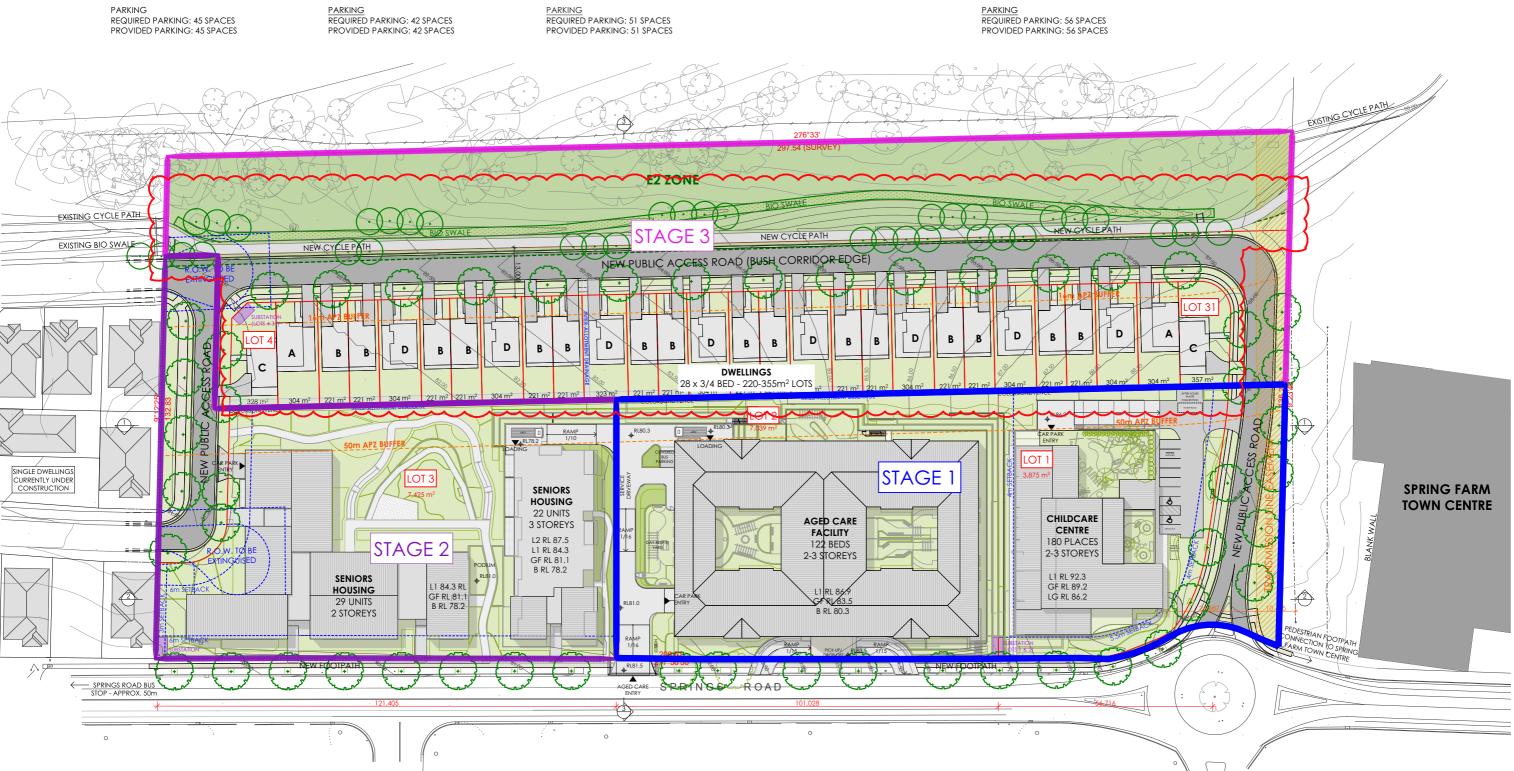
INDICATIVE ONLY: SUBJECT TO DETAILED DA

STAGE 2: SENIORS HOUSING

SEMI-DETACHED DWELLINGS - LOTS 4-31 28 DWELLINGS

TOTAL GFA: APPROX 3,830m² LOT AREA: 7,279m² TOTAL AREA OF RESIDENTIAL LOTS

PARKING REQUIRED PARKING: 56 SPACES

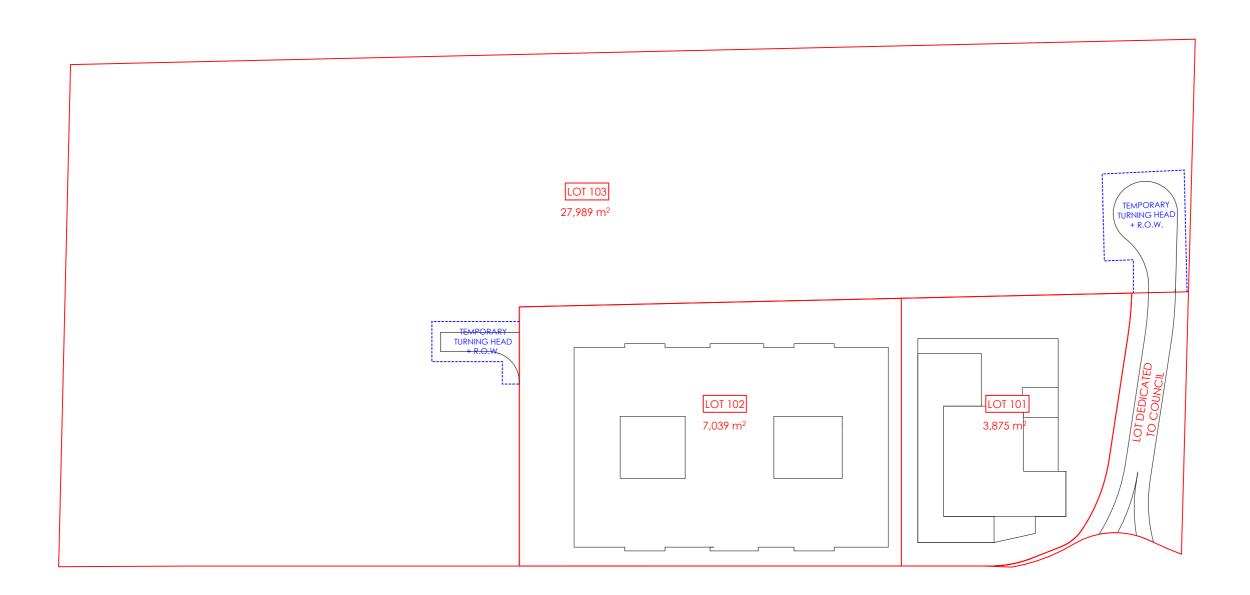


NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT		BHI AR
1. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1484 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY.	A	07/02/2019	PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS	\bigwedge	SYDNEY
2. PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3660 3. SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY.	В	30/05/2019	FOR CONSULTANT ISSUE	G	18/06/2020	FOR RFI ISSUE 3	SITE: 131 SPRINGS ROAD.	$\langle \rangle$	3.10/77 DL ROSEBERY
4. ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT. 5. DO NOT SCALE THE DRAWING. USE FIGURED DIMENSIONS.	С	28/06/2019	FOR CONSULTANT ISSUE				SPRING FARM NSW		02 9313 78
6. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM.	D	19/07/2019	FOR DEVELOPMENT APPLICATION				CLIENT:		KIAMA
 DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT. 	E	03/12/2019	FOR RFI ISSUE	CLIENI: MORAN HEALTH			4/125 TERR KIAMA NSI 02 4232 21		

STAGE 3: SEMI-DETACHED DWELLINGS

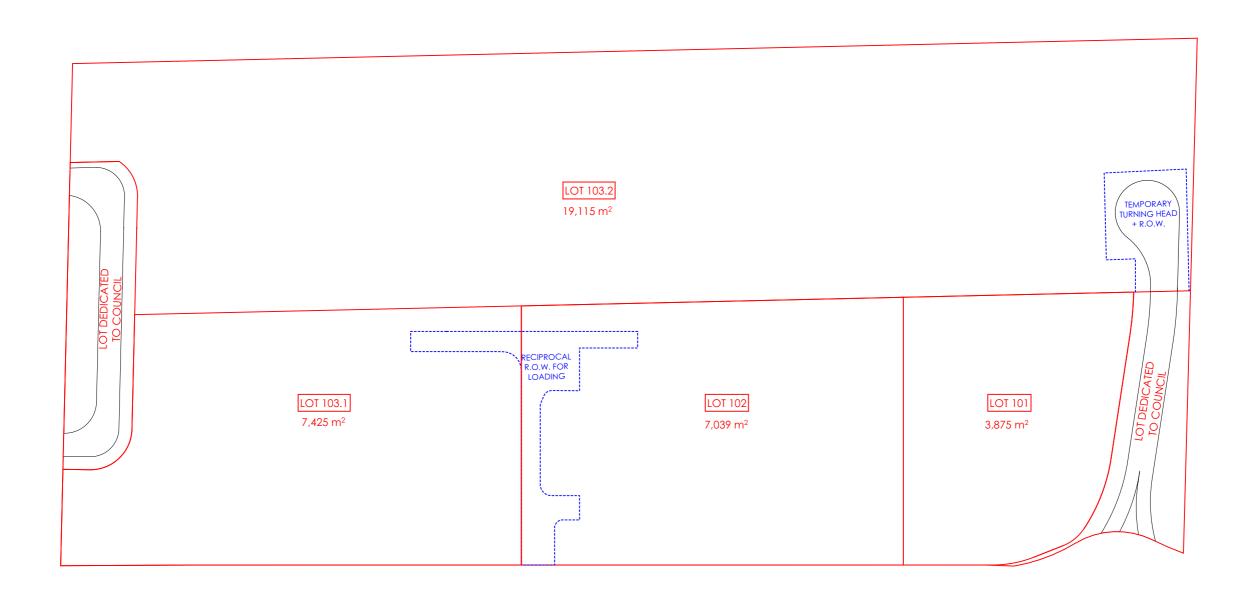
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JNNING AVE NSW 2018 00	hhi	DRAWN BT	снкр МН	date 18/06/2020	SCALE@A3: 1:1000
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NOTE:	NŌ.	DATE	AMENDMENT	PROJECT		B H I ARCHITEC
1. TIMEER FRAMING AND WIND BEACING TO COMPLY WITH ASTAEA AND TO SWI TIMEER FRAMING ANALLA MARIDED TO SUIT WIDD TERMAN CATEGORY. 2. PROVIDE CERTIFICID TERMITE ABARER SYSTEM TO AS 4840. 3. STALLECTED WINDOWS AND DOOR TO SUIT DESCIALTE WIND TERMAN CATEGORY. 3. STALLECTED WINDOWS AND DOOR TO SUIT DESCIALTE WIND TERMAN CATEGORY. 3. STALLECTED WINDOWS AND DOOR TO ADDRESS AND THE ADDRE	A B C D	30/05/2019 28/06/2019	FOR CONSULTANT ISSUE	SPRING FARM SENIORS SITE: 131 SPRINGS ROAD, SPRING FARM NSW CUENT: MORAN HEALTH		SYDNEY 3.10/77 DUNNING / ROSEBERY NSW 201 02 9313 7800 KIAMA 4/125 TERRALONG KIAMA NSW 2533 02 4232 2125

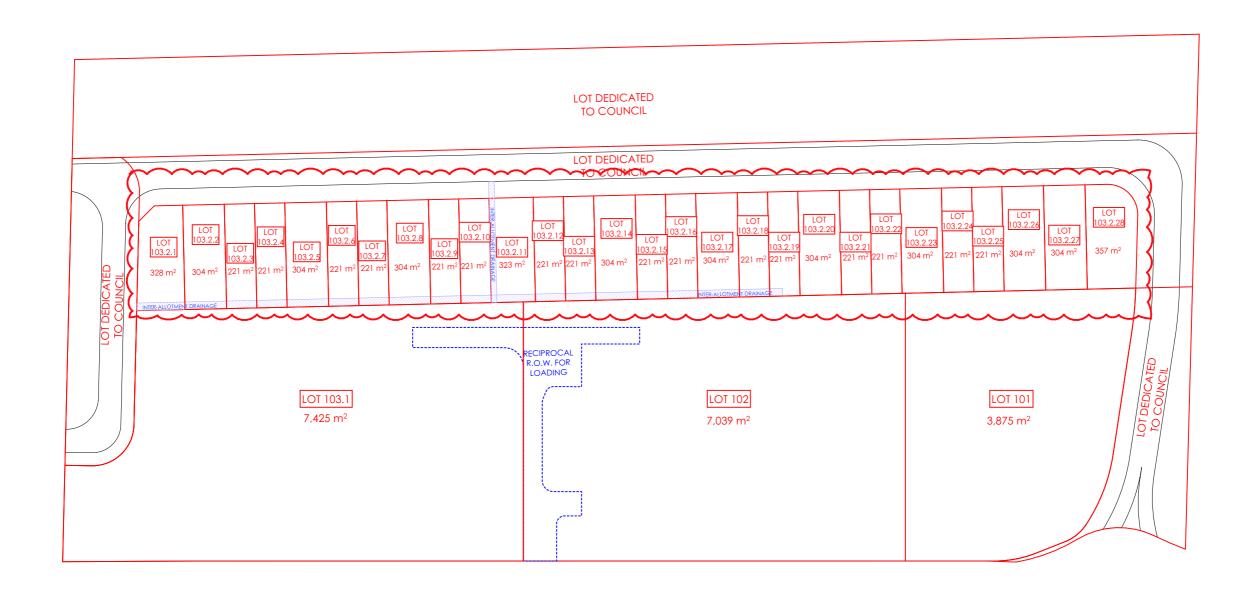
ITECTS PTY LTD		DRAWING TITLE		JBDIV. PLAN 1	STATUS: DA
V 2018	hhi	drawn BT	снкр МН	DATE 19/07/2019	SCALE@A3: 1:1000
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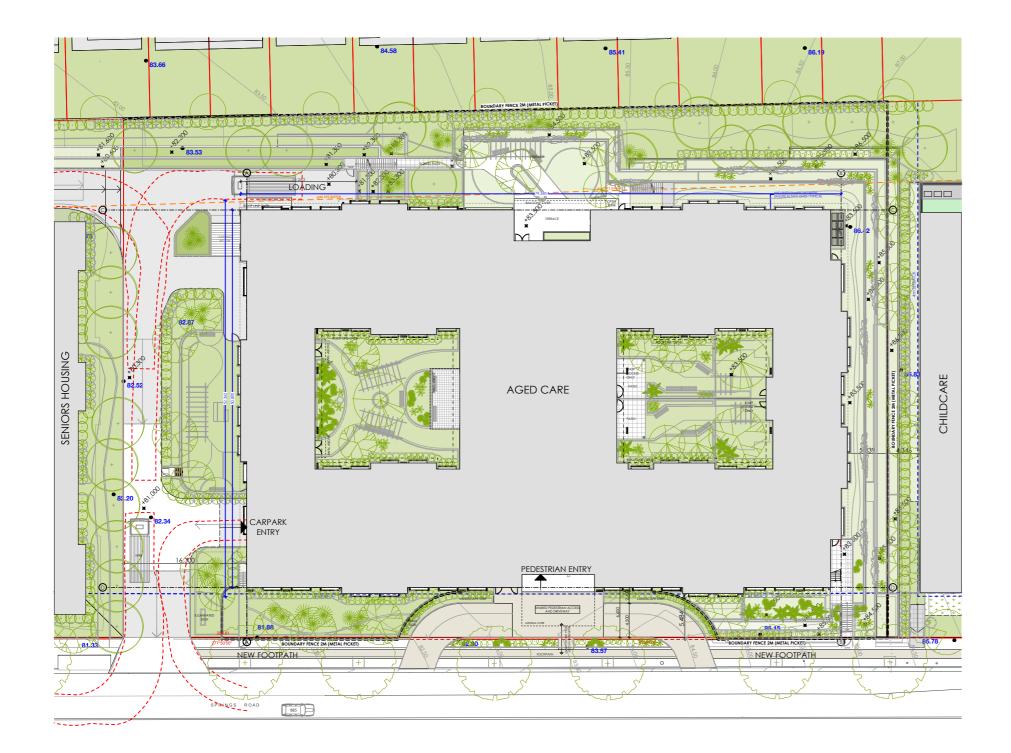
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TIMBER FRANKING AND WIND BARCING TO COMPLY WITH ASTRAAND TO NSW TIMBER FRANKING KANULA MARKIDED TO SUITI WOND TERRAIN CATECORY. 2. PROVIDE CERTIFIED TERMITE MARKER SYSTEM TO AS 346.0. 3. SELECTE WINDOWS AND DOORS TO SUITI DESIGNATE WIND TERRAIN CATEGORY. 4. ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIDMED. AND ANY 4. ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIDMED. AND ANY 5. DO NOT SCALE THE PRAVMING USE POLYMORY. AND CONFID- DO DON TO SCALE THE PRAVMING USE POLYMORY.	A B C	30/05/2019	PRE-DA REVISIONS FOR CONSULTANT ISSUE FOR CONSULTANT ISSUE	SPRING FARM SENIORS STEE: 131 SPRING FARM NSW	SYDNEY 3.10/77 DUNNIN ROSEBERY NSW 02 9313 7800
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TECTS PTY LTD		DRAWING TITL		JBDIV. PLAN 2	STATUS: DA
ING AVE V 2018	hhi	drawn BT	снкр МН	DATE 19/07/2019	scale@a3: 1:1000
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NOTE:	NŌ.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT	BHI	ARCHITE
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			FOR DEVELOPMENT APPLICATION FOR RFI ISSUE				CLIENT: MORAN HEALTH	KIAMA	1 A 5 TERRALON IA NSW 2533 232 2125



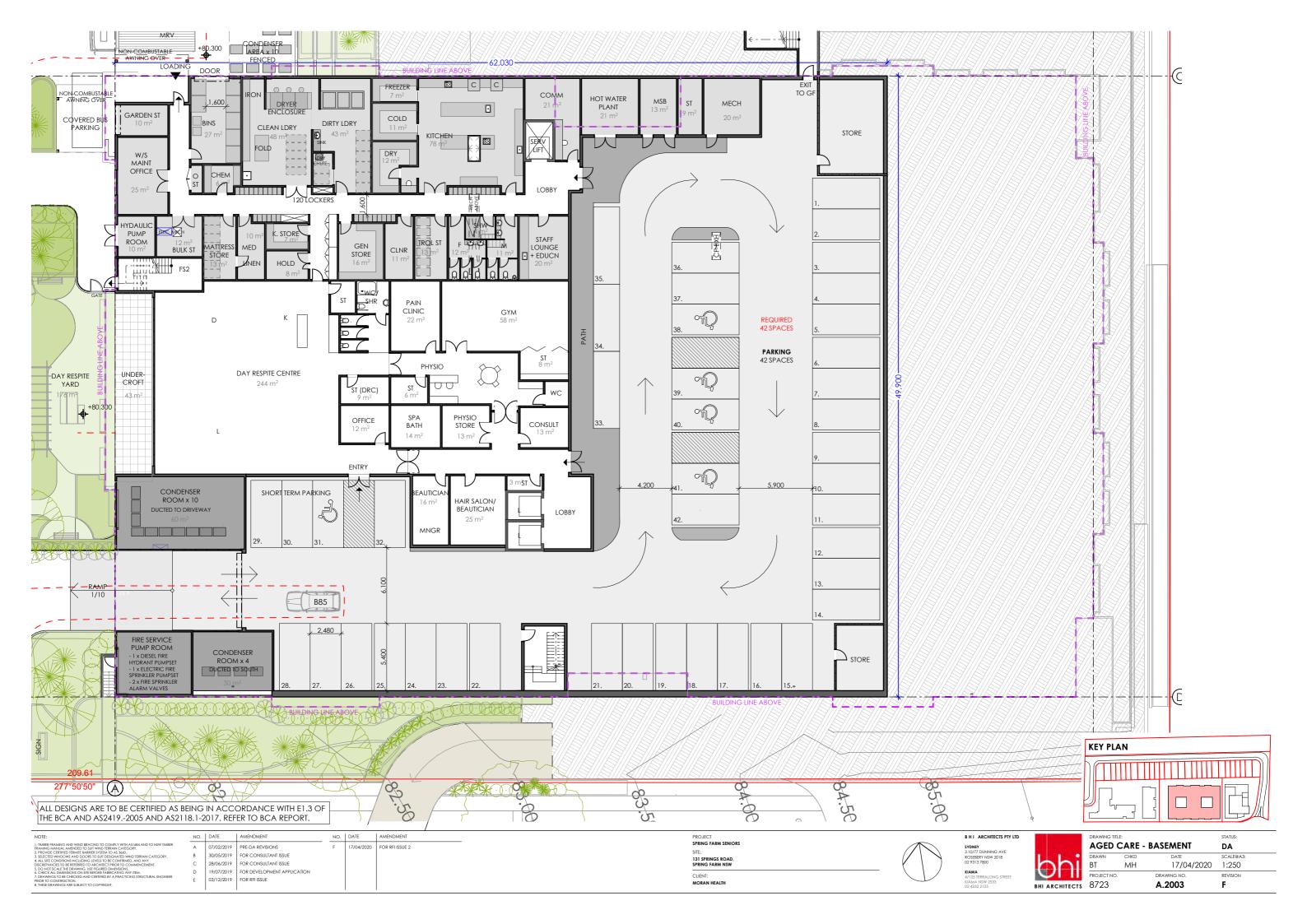
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IOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT		B H I ARCHITECTS PTY LTD		DRAWING			STATUS:
TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER RAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY.	А	07/02/2019	PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS	\bigwedge	SYDNEY		AGED	CARE -	SITE PLAN	DA
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SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY EPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT.	С	28/06/2019	FOR CONSULTANT ISSUE				ISI SPRINGS KODJ, SPRING FARM NSW		02 9313 7800	hhi	BT	MH	3/12/20190	1:500
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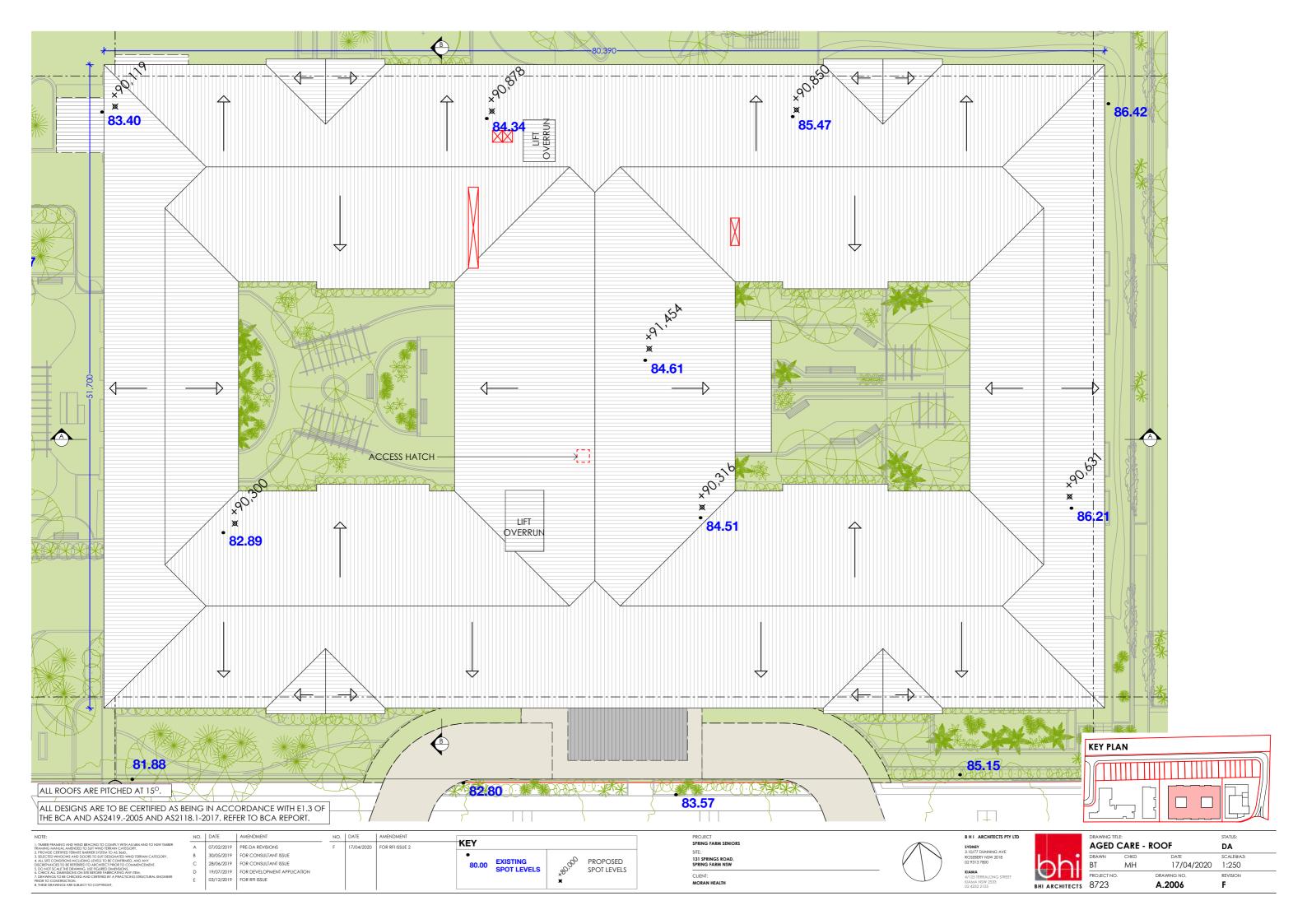


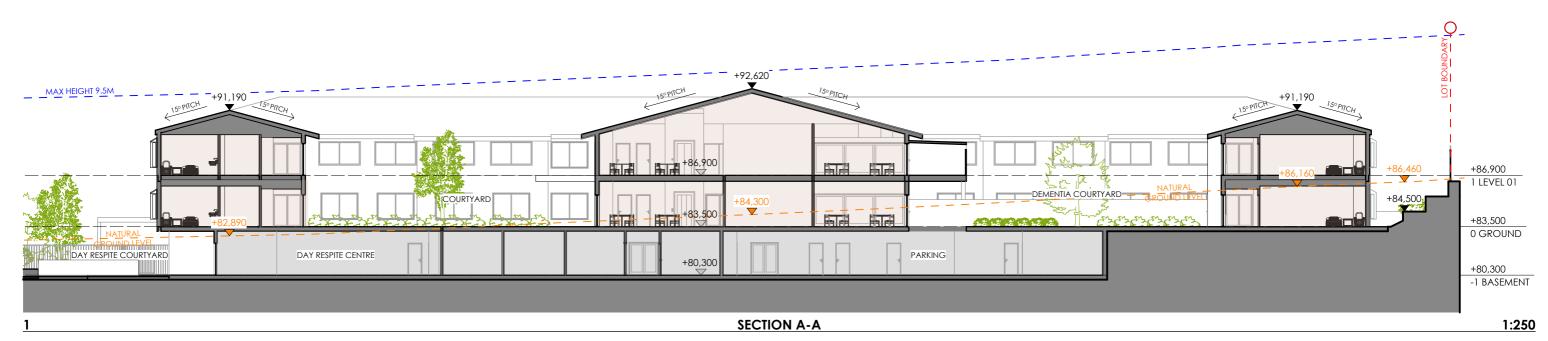


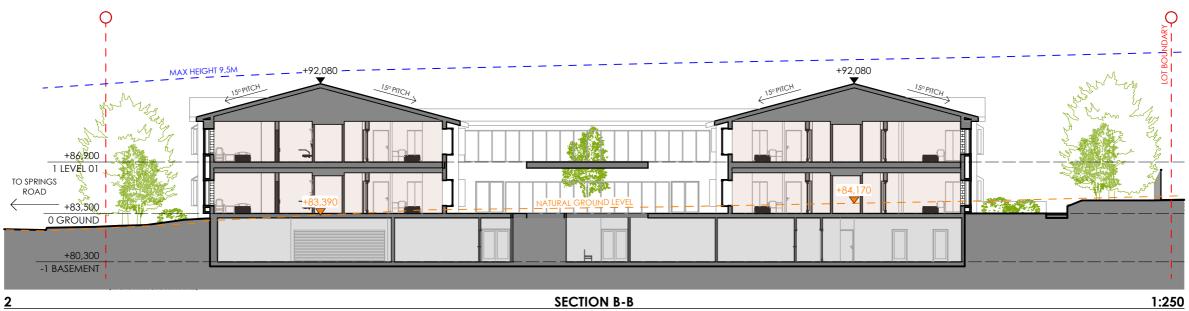


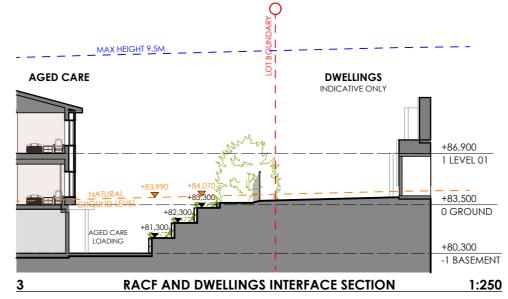




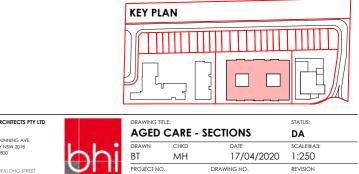








NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT	BHI ARC
TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY. 2. PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3660.	А			F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS	SYDNEY 3.10/77 DUM
SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY. ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY	В	30/05/2019	FOR CONSULTANT ISSUE				131 SPRINGS ROAD,	ROSEBERY N 02 9313 780
DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT. 5. DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS.	С	28/06/2019	FOR CONSULTANT ISSUE				SPRING FARM NSW	
6. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. 7. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER	0	19/07/2019 03/12/2019	FOR DEVELOPMENT APPLICATION				CUENT:	KIAMA 4/125 TERRA
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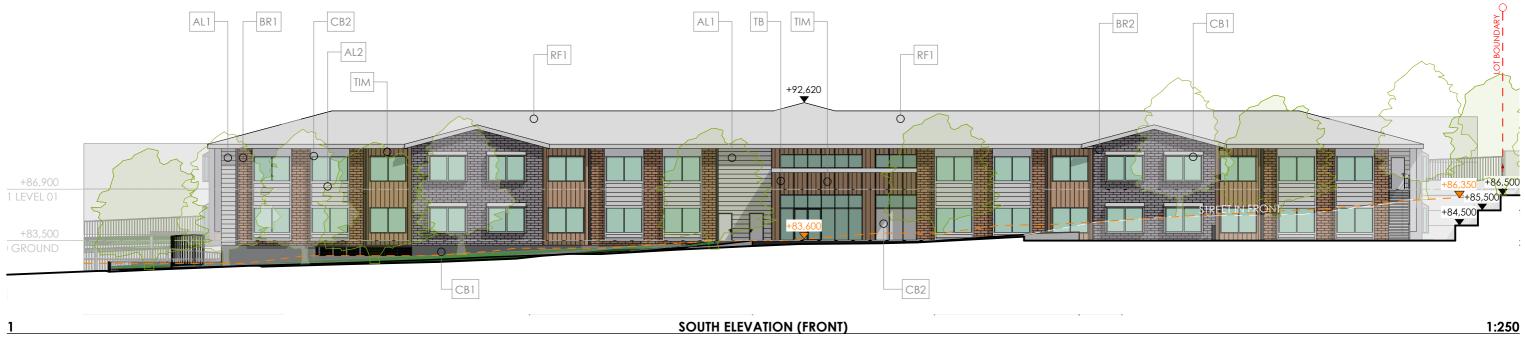


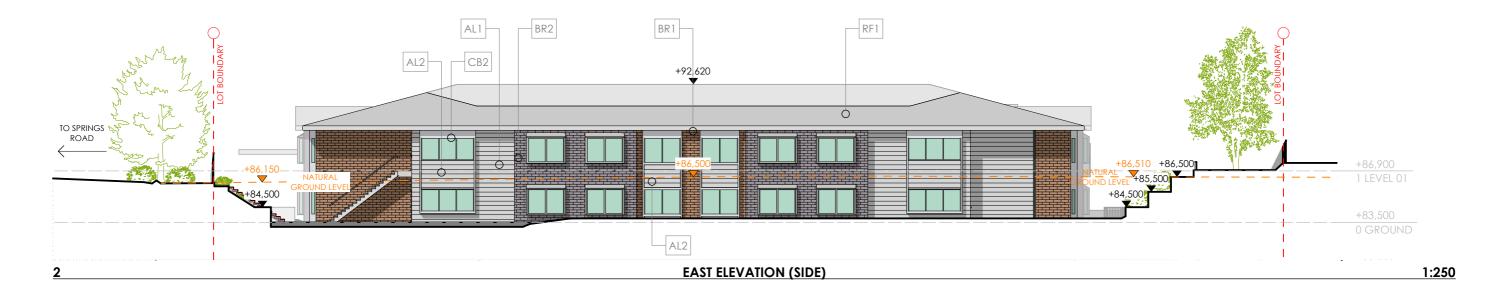
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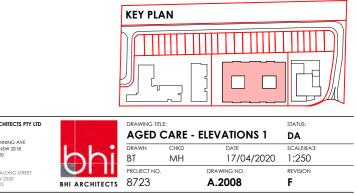
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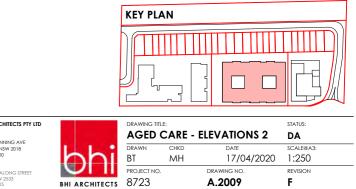
NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT		BHI ARCHI
I. TIMBER FRANING AND WIND BRACING TO COMPLY WITH ASTAGA AND TO NSW TIMBER FRANING ANALULA MANDED TO JUIT WIND TERRANIC ANTEGORY. 2. PROVIDE CERTIFIED TERMITE BARBIER SYSTEM TO AS 3440. 3. SELECTED WINDOWS AND DOORS TO SUIT DESIGNATION TO MINING THE AND CATEGORY. 4. ALL STE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY DESCEPTIONETS TO BE REFERENCE TO ARCHITECT PROVIDENCEMENT.	A B C	07/02/2019 30/05/2019 28/06/2019	PRE-DA REVISIONS FOR CONSULTANT ISSUE FOR CONSULTANT ISSUE	F	17/04/2020	FOR RFI ISSUE 2	SITE:	SYDNEY 3.10/77 DUNNII ROSEBERY NSW 02 9313 7800
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NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT	BHI ARCH
1. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY.	А	07/02/2019	PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS	SYDNEY 3.10/77 DUNI
 PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3660 SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY. ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED. AND ANY 	В	30/05/2019	FOR CONSULTANT ISSUE				SILE: 131 SPRINGS ROAD.	ROSEBERY NS
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 DO NOT SCALE THE DRAWING, USE INCORED DIMENSIONS. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER 	D	19/07/2019	FOR DEVELOPMENT APPLICATION				CLIENT:	KIAMA 4/125 TERRAI
PROR TO CONSTRUCTION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT.	E	03/12/2019	FOR RFI ISSUE				MORAN HEALTH	4/125 TERRAL KIAMA NSW 1 02 4232 2125



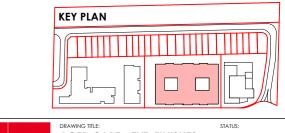
EXTERNAL FINISHES SCHEDULE

REF	MATERIAL	LOCATION	COLOUR	IMAGE
AL1	FIBRE CEMENT SCYON CLADDING IN 'CB SHALE GREY' OR SIMILAR	SELECTED EXTERNAL WALLS		
BR 1	BRICK FINISH IN AUSTRALBRICK METROPOLIS IN SHADE 'TOPAZ' OR SIMILAR	SELECTED EXTERNAL WALLS		
TIM	ALUMINIUM CLADDING WALL IN TIMBER LOOK OR SIMILAR	SELECTED EXTERNAL WALLS		
BR2	BRICK FINISH IN AUSTRALBRICK URBAN ONE IN SHADE 'CHIFFON' OR SIMILAR	SELECTED EXTERNAL WALLS		
CB1	PAINTED FINISH IN COLOUR BOND 'BASALT' OR SIMILAR	SELECTED EXTERNAL WINDOW FRAMES		
CB2	PAINTED FINISH IN OFF WHITE OR SIMILAR	SELECTED EXTERNAL WINDOW FRAMES		
AL2	FIBRE CEMENT SCYON CLADDING IN OFF WHITE OR SIMILAR	SELECTED EXTERNAL WINDOW FINISH		

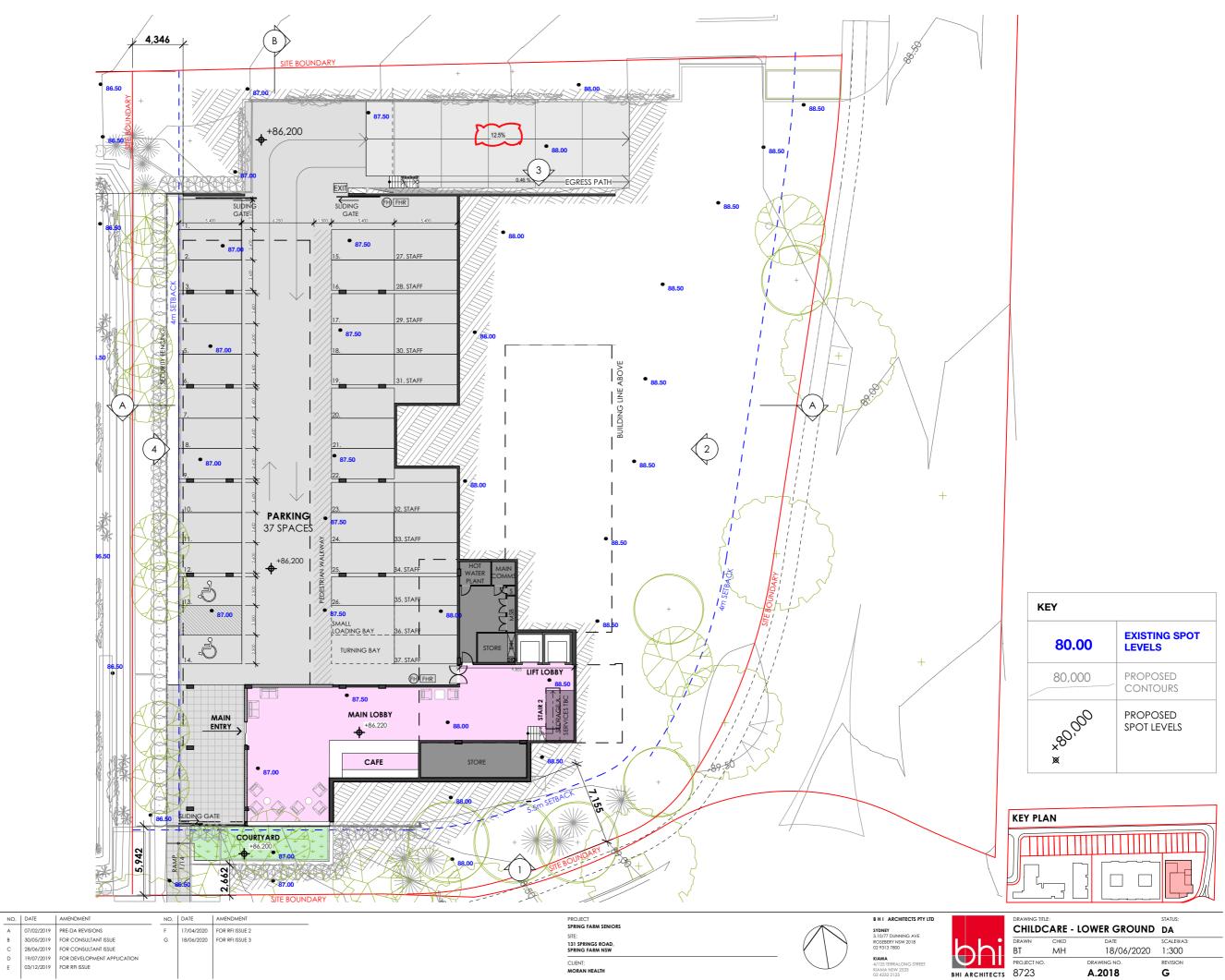
REF	MATERIAL	LOCATION
TB	ALUMINIUM BATTENS IN TIMBER LOOK OR SIMILAR	ALL EXTERNAL BATTENS
RF1	ALUMINIUM ROOF SHEETING IN COLOURBOND 'SHALE GREY' OR SIMILAR	SELECTED ROOFS

			1				
NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT
1. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY.	A	07/02/2019	PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS
2. PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3660 3. SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY.	В	30/05/2019	FOR CONSULTANT ISSUE				SITE: 131 SPRINGS ROAD.
4. ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT.	С	28/06/2019	FOR CONSULTANT ISSUE				SPRING FARM NSW
 DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. DOMINING TO SUFFICIENT DATA DIMENSIONS 	D	19/07/2019	FOR DEVELOPMENT APPLICATION				CLIENT:
 DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT. 	E	03/12/2019	FOR RFI ISSUE				MORAN HEALTH



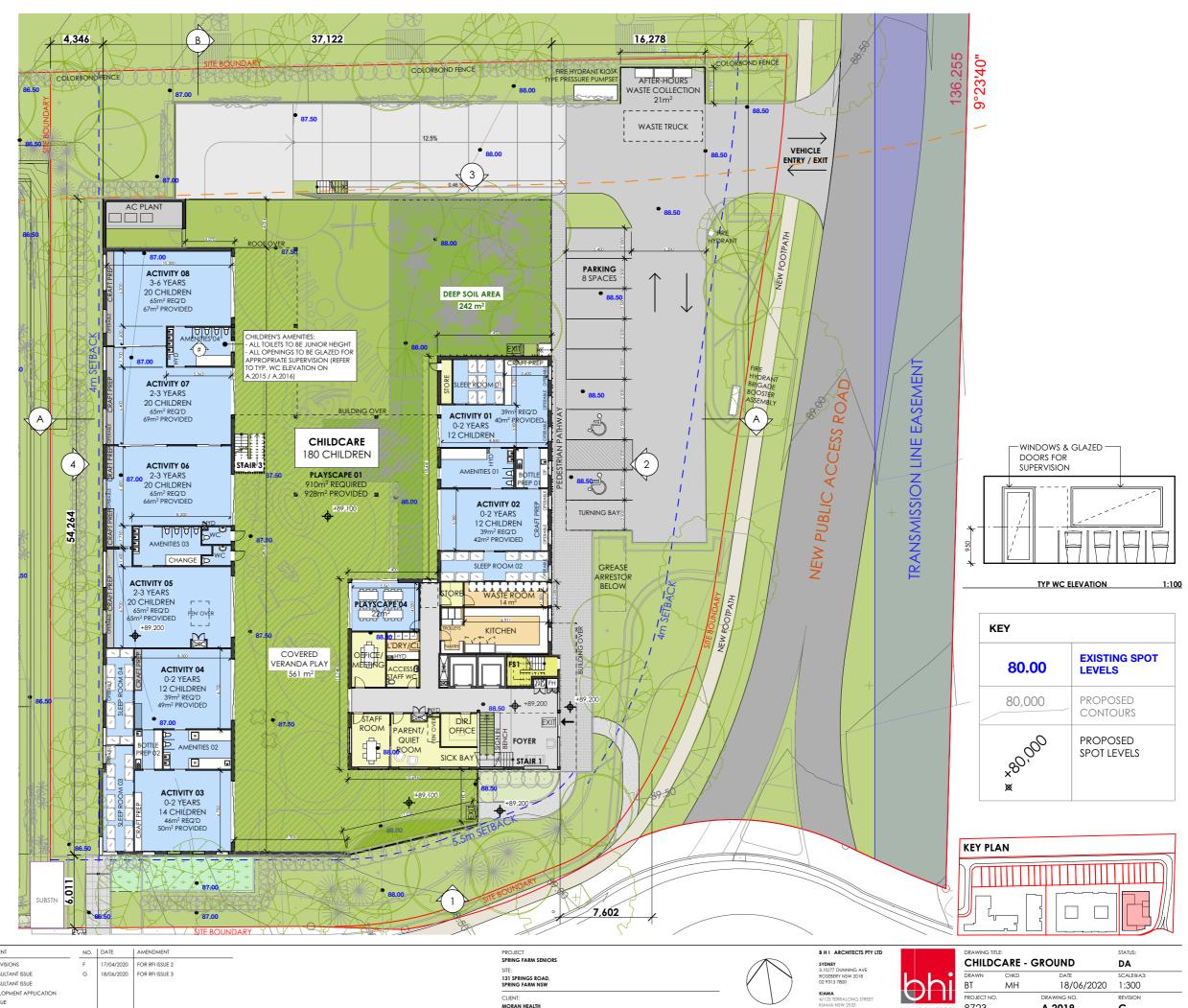


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I. TIMBER FRANKIG AND WIND BRACING TO COMPLY WITH ASTBAL AND TO NSW TIMBER FRAMING MANULA AMENDED TO SUIT WIND FRANK CATEGORY. 2. PROVIDE CERTIED TERMITE BARBER SYSTEM TO AS 3460. 3. SELECTED WINDOWS AND DOORST O 31 DIRECTATED WIND TERMAN CATEGORY. 4. ALL STEC CONDITIONS INCLUDING LIGHTS TO BE COMPANIED, AND ANT 4. ALL STEC CONDITIONS INCLUDING LIGHTS TO BE COMPANIED, AND ANT 4. ALL STEC CONDITIONS INCLUDING LIGHTS TO BE COMPANIED, AND ANT 5. DO NOT SCALE THE PREVMINE. USE FOLIDIED DIRECTORY. 5. DO NOT SCALE TO END EXAMINE. USE FOLIDIED DIRECTORY.	A B C	30/05/2019 28/06/2019	PRE-DA REVISIONS FOR CONSULTANT ISSUE FOR CONSULTANT ISSUE	F G	17/04/2020 18/06/2020	FOR RFI ISSUE 2 FOR RFI ISSUE 3	_		SPRING FARM SENIORS SITE: 131 SPRINGS ROAD, SPRING FARM NSW	
6. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. 7. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER PROPE TO CONSTRUCTION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRGHT.	E		FOR DEVELOPMENT APPLICATION FOR RFI ISSUE						CLIENT: MORAN HEALTH	

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NOTE:	NŌ.	DATE	AMENDMENT	NŌ.	DATE	AMENDMENT	PROJECT		
TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY. 2. PROVIDE CERTIFIED TERMITE BARRIES SYSTEM TO AS 5460.			PRE-DA REVISIONS	F		FOR RFI ISSUE 2	SPRING FARM SENIORS	A	\sim
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DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT. 5. DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS.			FOR CONSULTANT ISSUE				SPRING FARM NSW		.)
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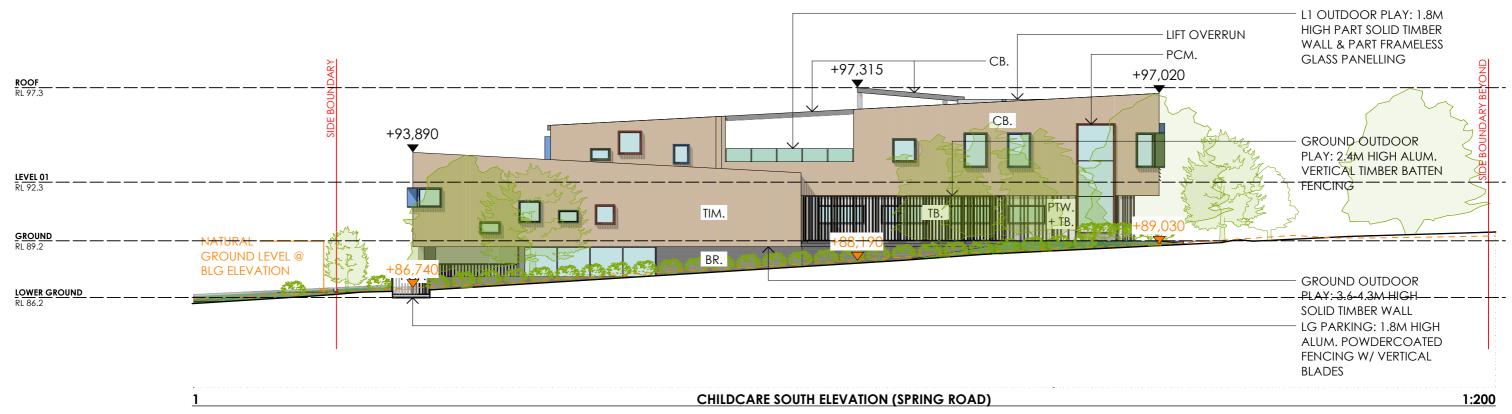


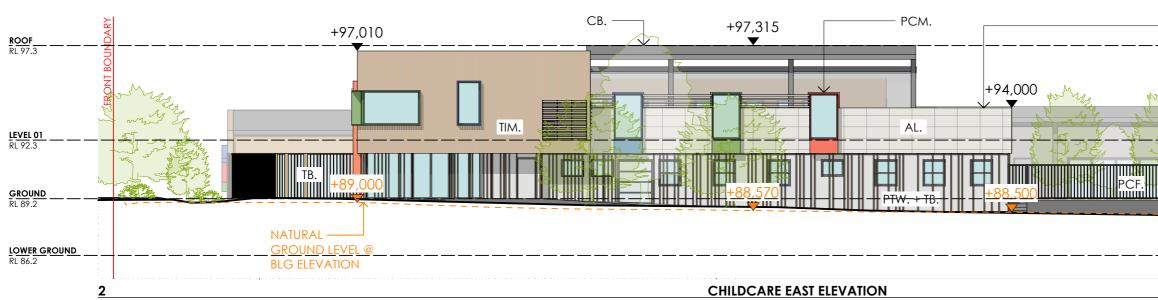
NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT		BHI ARC
I. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY. 2. PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3640.	А		PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS	\bigwedge	SYDNEY 3.10/77 DUI
3. SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY. 4. ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY			FOR CONSULTANT ISSUE				131 SPRINGS ROAD,		ROSEBERY N 02 9313 780
DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT. 5. DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS.	С		FOR CONSULTANT ISSUE				SPRING FARM NSW	()	
6. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. 7. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER	D		FOR DEVELOPMENT APPLICATION				CLIENT:	$\langle \rangle \rangle$	KIAMA 4/125 TERR/
PRIOR TO CONSTRUCTION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT.	E	03/12/2019	FOR RFI ISSUE				MORAN HEALTH		KIAMA NSW 02 4232 212



NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT PROJECT			B H I ARCHITECTS PTY
1. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY.	A	07/02/2019	PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2 SPRING FARM SENIORS	1		SYDNEY
2. PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3660 3. SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY.	В	30/05/2019	FOR CONSULTANT ISSUE			Sile: 131 SPRINGS ROAD,		$ \rangle$	3.10/77 DUNNING AVE ROSEBERY NSW 2018
4. ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT. 5. DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS.	С	28/06/2019	FOR CONSULTANT ISSUE			SPRING FARM NSW	K	()	02 9313 7800
 DO NOT SCALE THE DRAWING, USE PISORED DIMENSIONS. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER 	D					CLIENT:			KIAMA 4/125 TERRALONG STREET
PRIOR TO CONSTRUCTION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT.	E	03/12/2019	FOR RFI ISSUE			MORAN HEALTH			KIAMA NSW 2533 02 4232 2125

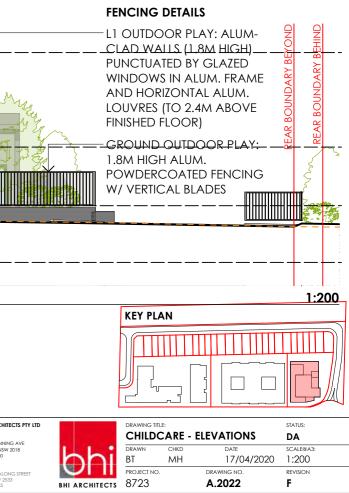
1. 500	CHILD	CARE -	ROOF	DA	
1 1 .	DRAWN	CHKD	DATE	SCALE@A3:	
nni	BT	MH	17/04/2020	1:300	
	PROJECT NO	ι.	DRAWING NO.	REVISION	
BHI ARCHITECTS	8723		A.2021	F	

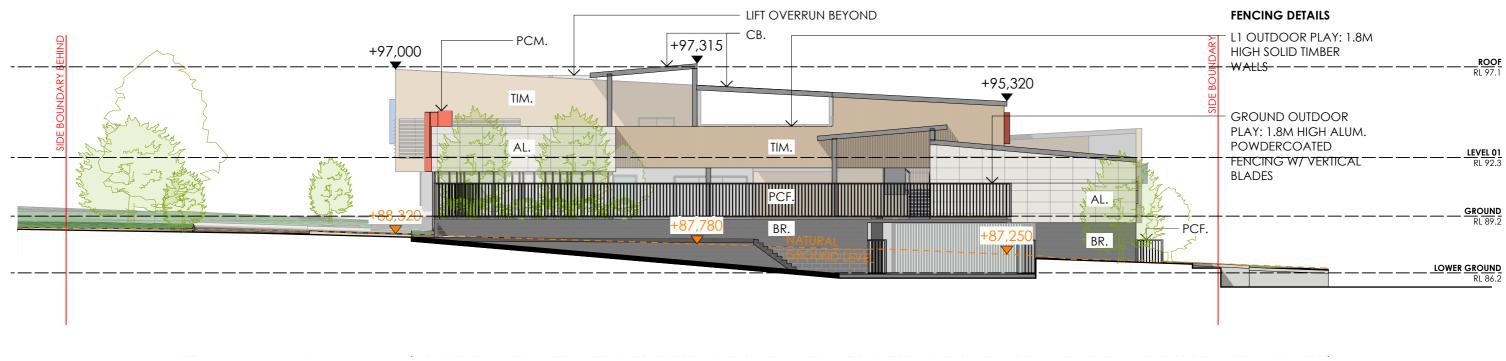




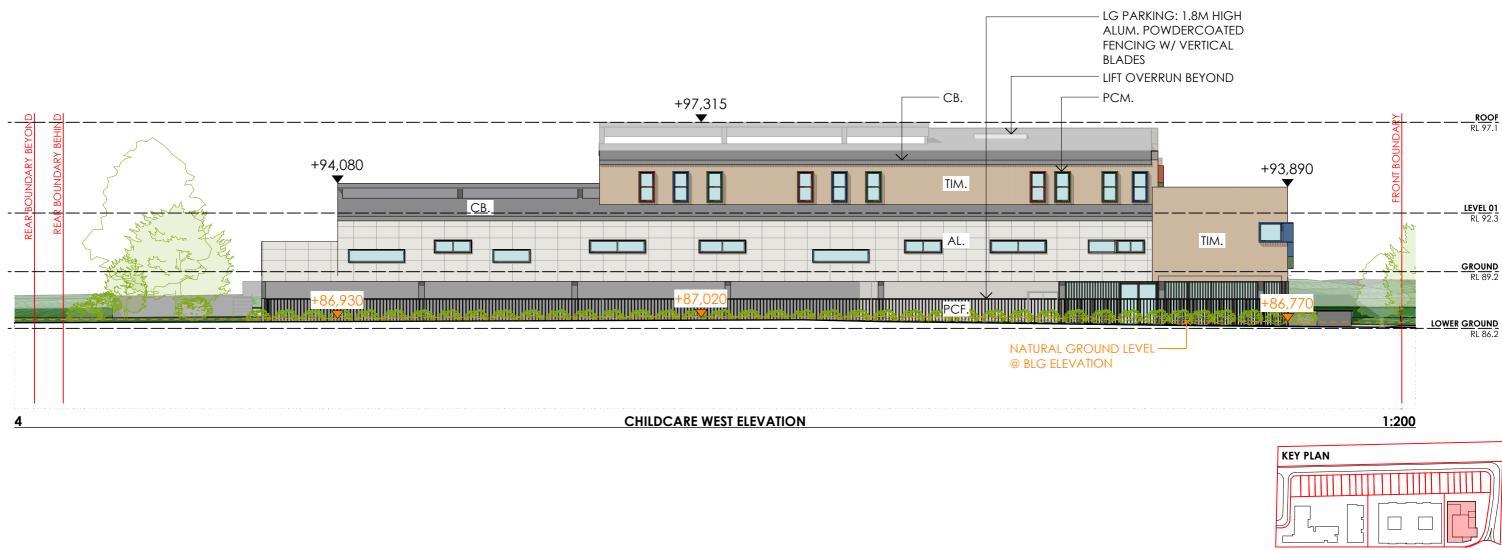
NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT	BHI ARCH
I TWEER FRAMING AND WIND BACKING TO COMMY WITH ASTARA AND TO NSW TWEER FRAMING ANALIVIAL AMENDED TO SUINI WIND TERAN IC ANGEORY. 2 PROVIDE CERTIFIED TERMITE BARBIES SYSTEM TO AS \$46. SELECCTE WINDOWS AND DOORS TO SUID EDISGNATED WIND TERAN CATEGORY. 4. ALI STE CONDITIONS IN DUDING LIVES TO BE COMPRRED, AND ANY DOSCRETAVIDES TO BE REFERED TO ACHIECT PROR TO COMMENCEMENT.	В	30/05/2019	PRE-DA REVISIONS FOR CONSULTANT ISSUE FOR CONSULTANT ISSUE	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS SITE: 131 SPRING ROAD, SPRING FARM NSW	SYDNEY 3.10/77 DUNI ROSEBERY NS 02 9313 7800
5. DO NOT SCALE THE DRAWING, USE FOURED DURENDONS. 6. CHECK ALL DURINGONS ON SITE BEOR FRAINCENTRY ANT IBM. 7. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL BIGINEER PRORT DC CONSTRUCTION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRGHT.	D	19/07/2019 03/12/2019	FOR DEVELOPMENT APPLICATION FOR RFI ISSUE				CLIENT: MORAN HEALTH	KIAMA 4/125 TERRAL KIAMA NSW 3 02 4232 2125

FENCING DETAILS





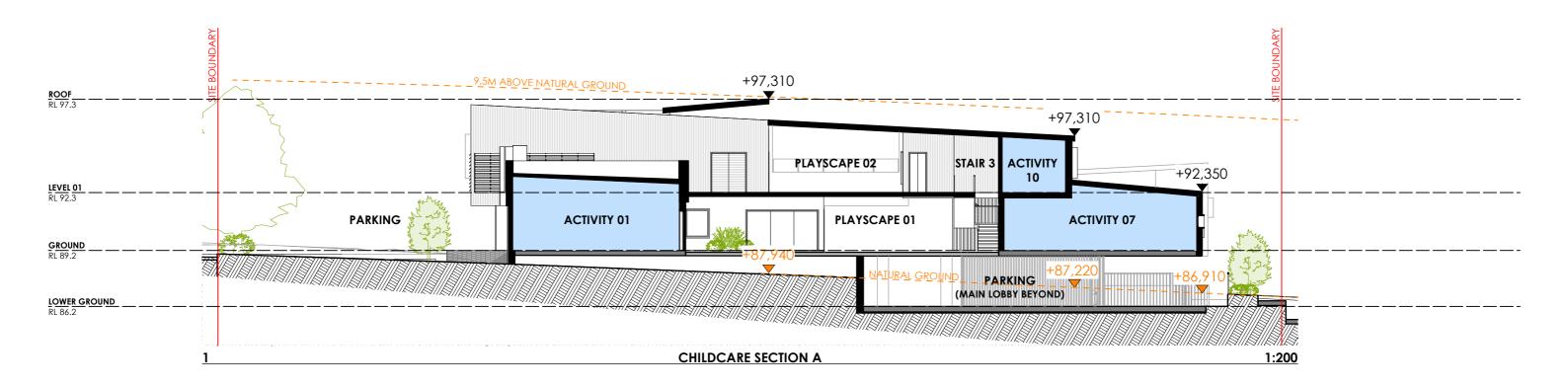
CHILDCARE NORTH ELEVATION (REAR)

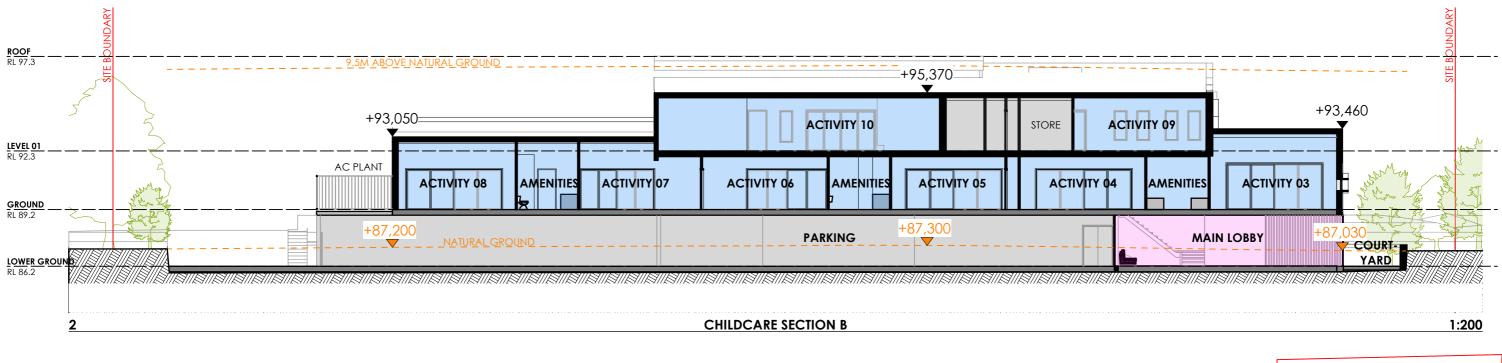


NOTE:	NO.	DATE	AMENDMENT	NŌ.	DATE	AMENDMENT	PROJECT	BHI ARCH
1. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRINI CATEGORY.	A	07/02/2019	PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS SITE:	SYDNEY 3.10/77 DUNN
PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3640. SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY. ALL STE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY	В	30/05/2019	FOR CONSULTANT ISSUE				anc. 131 SPRINGS ROAD.	ROSEBERY NS
 AL SHE CONTINUES INCLUDING LEVELS TO BE CONTRIMED, AND ANY DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT. DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS. 	С	28/06/2019	FOR CONSULTANT ISSUE				SPRING FARM NSW	02 9313 7800
 DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER 	D	19/07/2019	FOR DEVELOPMENT APPLICATION				CLIENT:	KIAMA 4/125 TERRALO
 DRAWINGS TO EFFECTED AND CENTRED BY A PARCILLING STADETURAL ENGINEER PRIOR TO CONSTRUCTION. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT. 	E	03/12/2019	FOR RFI ISSUE				MORAN HEALTH	4/125 TERRALO KIAMA NSW 2 02 4232 2125

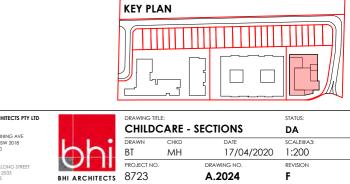
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HITECTS PTY LTD		DRAWING TIT			STATUS:
INING AVE	a starter	CHILDO	CARE -	ELEVATIONS	DA
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LONG STREET		PROJECT NO.		DRAWING NO.	REVISION
2533 5	BHI ARCHITECTS	8723		A.2023	F





NOTE:	NO.	DATE	AMENDMENT	NŌ.	DATE	AMENDMENT	PROJECT	BHI ARCHI
1. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS 1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY.	А	07/02/2019	PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS	SYDNEY 3.10/77 DUNNI
 PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3&0. SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY. ALL STE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY 	В	30/05/2019	FOR CONSULTANT ISSUE				131 SPRINGS ROAD,	ROSEBERY NSW
 AL SITE CONDITIONS INCLIDING LEVES TO BE COMMENDED, AND ANY DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT. DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS. 	С	28/06/2019	FOR CONSULTANT ISSUE				SPRING FARM NSW	02 9313 7800
 DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER 	D	19/07/2019	FOR DEVELOPMENT APPLICATION				CLIENT:	KIAMA 4/125 TERRALC
2. DRAWINGS I DE CHECKED AND CENTRED BY A RACING STADETURAL ENGINEER PRIOR TO CONSTRUCTION 8. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT.	E	03/12/2019	FOR RFI ISSUE				MORAN HEALTH	4/125 TERRALO KIAMA NSW 25 02 4232 2125



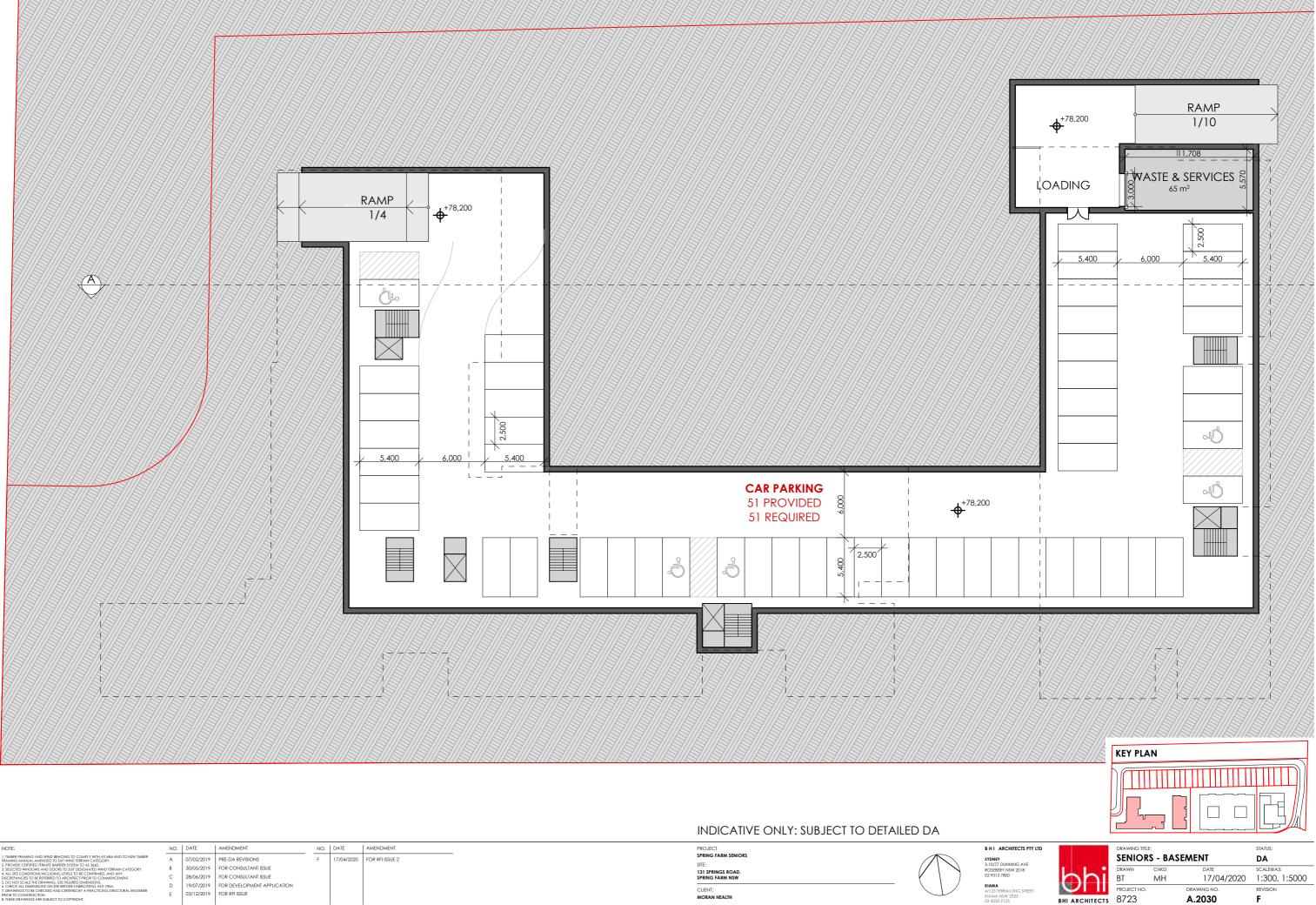
EXTERNAL FINISHES SCHEDULE

REF	MATERIAL	LOCATION	COLOUR	IMAGE
AL	ALUCOBOND WHITE OR SIMILAR	SELECTED EXTERNAL WALLS		
TIM	ALUMINIUM CLADDING WALL IN TIMBER LOOK OR SIMILAR	SELECTED EXTERNAL WALLS		
PCM	POWDERCOAT FINISH IN MULTI-COLOUR OR SIMILAR	SELECTED EXTERNAL WINDOW FRAMES		
PTW	PAINTED FINISH IN OFF WHITE OR SIMILAR	SELECTED EXTERNAL WINDOW FRAMES		
ТВ	ALUMINIUM BATTENS IN TIMBER LOOK OR SIMILAR	ALL EXTERNAL BATTENS		
СВ	ALUMINIUM ROOF SHEETING IN COLOURBOND 'SHALE GREY' OR SIMILAR	SELECTED ROOFS		
PCF	POWDER COAT FINISH IN COLOURBOND 'IRONSTONE' OR SIMILAR	FENCING		
BR	BRICK FINISH IN AUSTRALBRICK URBAN ONE IN SHADE 'CHIFFON' OR SIMILAR	SELECTED EXTERNAL WALLS		

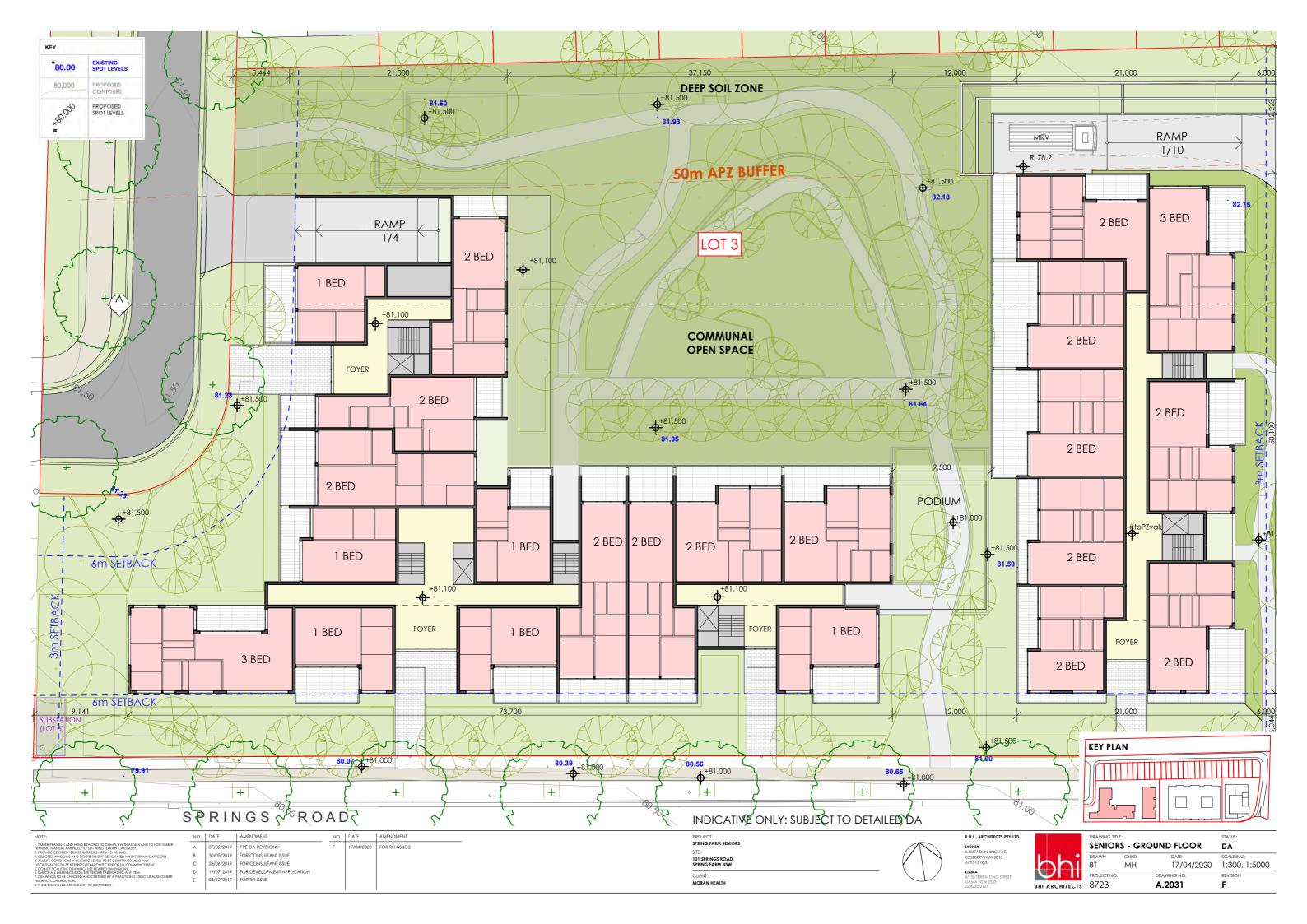
NOTE:	NO.	DATE	AMENDMENT	PROJECT	B H I ARCH
 TIMBER FRANKE AND WIND BRACING TO COMPRY WITH ASI BAY AND TO INSW TIMBER FRANKING KANNILA AMERIDED TO DITU WIND TERRAN CATEGORY. PROVIDE CRIFIED TERMITE BARBER SYSTEM TO AS 3640. SEELECTE WINDOWS AND DOORS TO SUIT DESIGNATION WIND TERRAN CATEGORY. ALI STE COMDITIONS MON DOORS TO SUIT DESIGNATION WIND TERRAN CATEGORY. ALI STE COMDITIONS AND DOORS AND ADORS TO SUIT DESIGNATION WIND TERRAN CATEGORY. ALI STE COMDITIONS AND DOORS AND ADORS TO SUIT DESIGNATION WIND TERRAN CATEGORY. ALI STE COMDITIONS AND DOORS AND ADORS AND ANY DESCRETAVICES TO BE RETERIED TO RECOMPLETE AND COMMENCEMENT. 	NG MANUA AMBIDD TO SIT WHO TERAN CATEGORY. A 0//02/2019 PK-DA KEVISIONS MC CATHED ENDER SITE NO ASSALL STATUSCINE DE REMER SITE NO ASSALL STATUSCINE DE REMER SITE NO ASSALL STATUSCINE DE REMERTE TO ASSALL STATUSCINE DE REMERTE	SPRING FARM SENIORS SITE: 131 SRRINGS ROAD, SPRING FARM NSW	SYDNEY 3.10/77 DUNI ROSEBERY NS 02 9313 7800		
 DIFUG 3: A LET INSWAMMING, USE FOURED LIKENSING CONSCILLATE, ALE INSWAMMING, USE FOURED LIKENSING ANT IEM. DIFUG 10: DIE CONSCILLATE BEFORE FARRE AND CERTIFIED BY A FRACTICING STRUCTURAL ENGINEER PROP TO CONSTRUCTION. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT. 	D	19/07/2019	FOR DEVELOPMENT APPLICATION	CLIENT: MORAN HEALTH	KIAMA 4/125 TERRAL KIAMA NSW 1 02 4232 2125

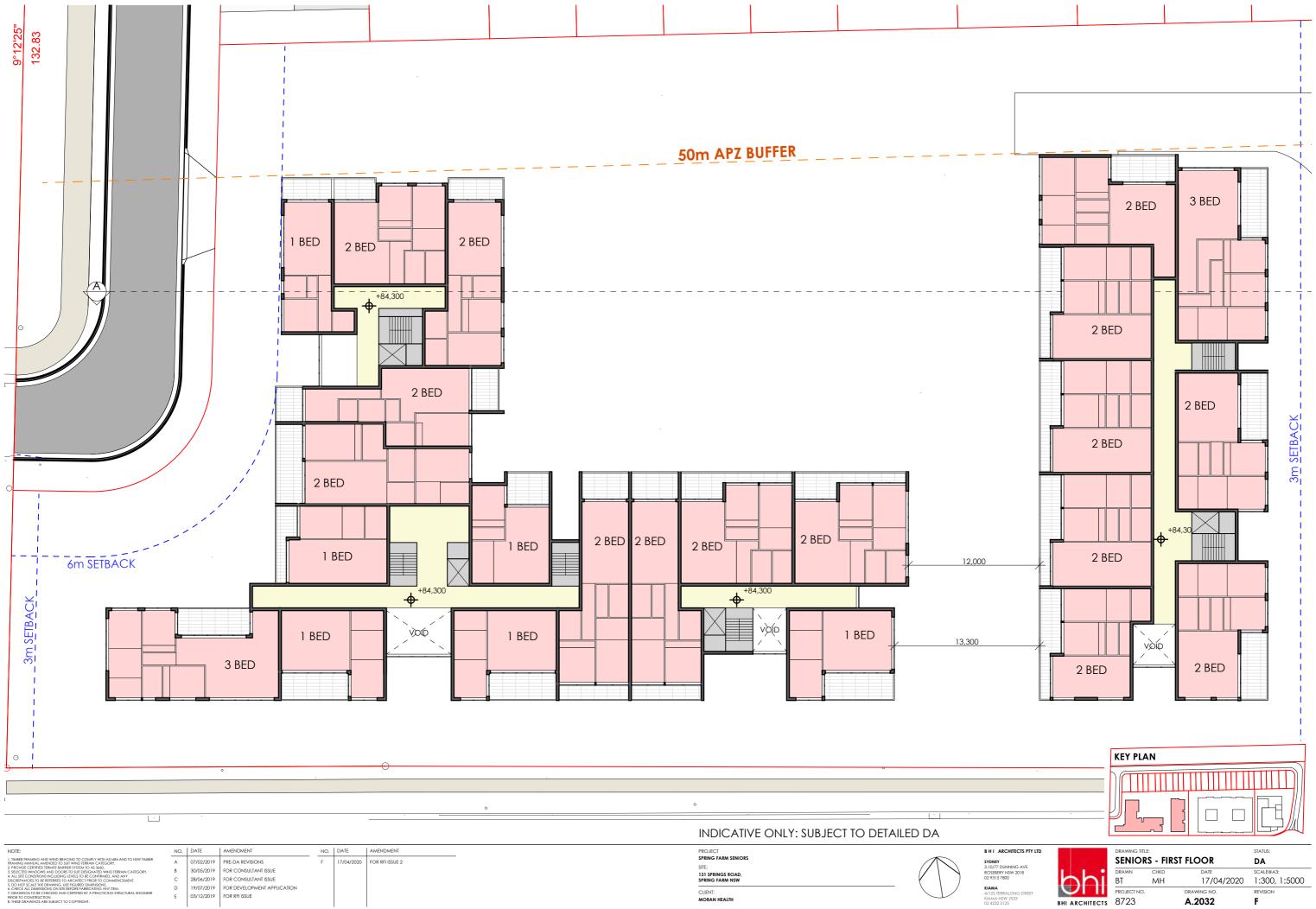


CHITECTS PTY LTD				EXT. FINISHES	status: DA
NNING AVE NSW 2018 10	hhi	DRAWN		DATE 19/07/2019	SCALE@A3:
ALONG STREET V 2533 25		PROJECT NO).	DRAWING NO.	revision D

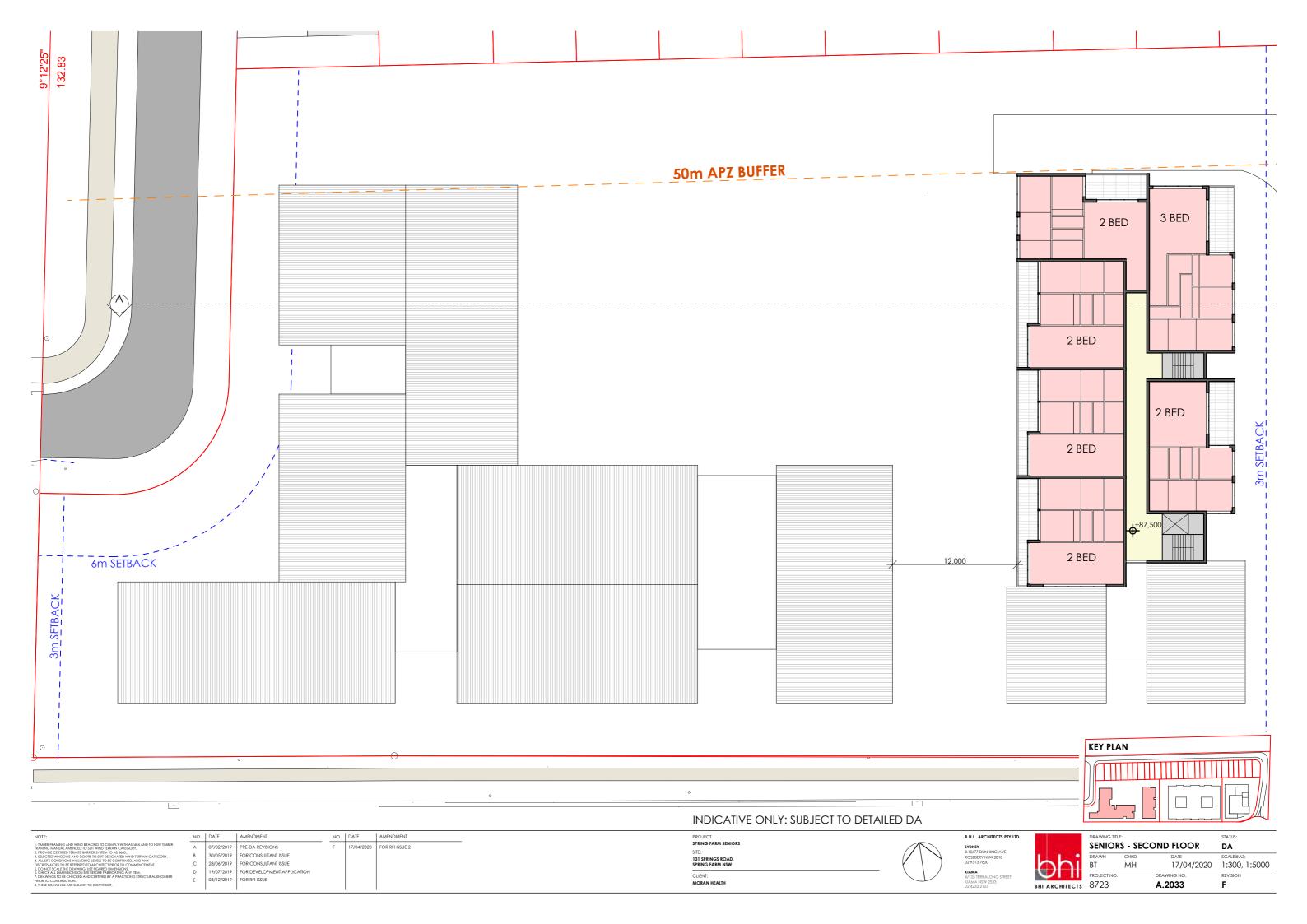


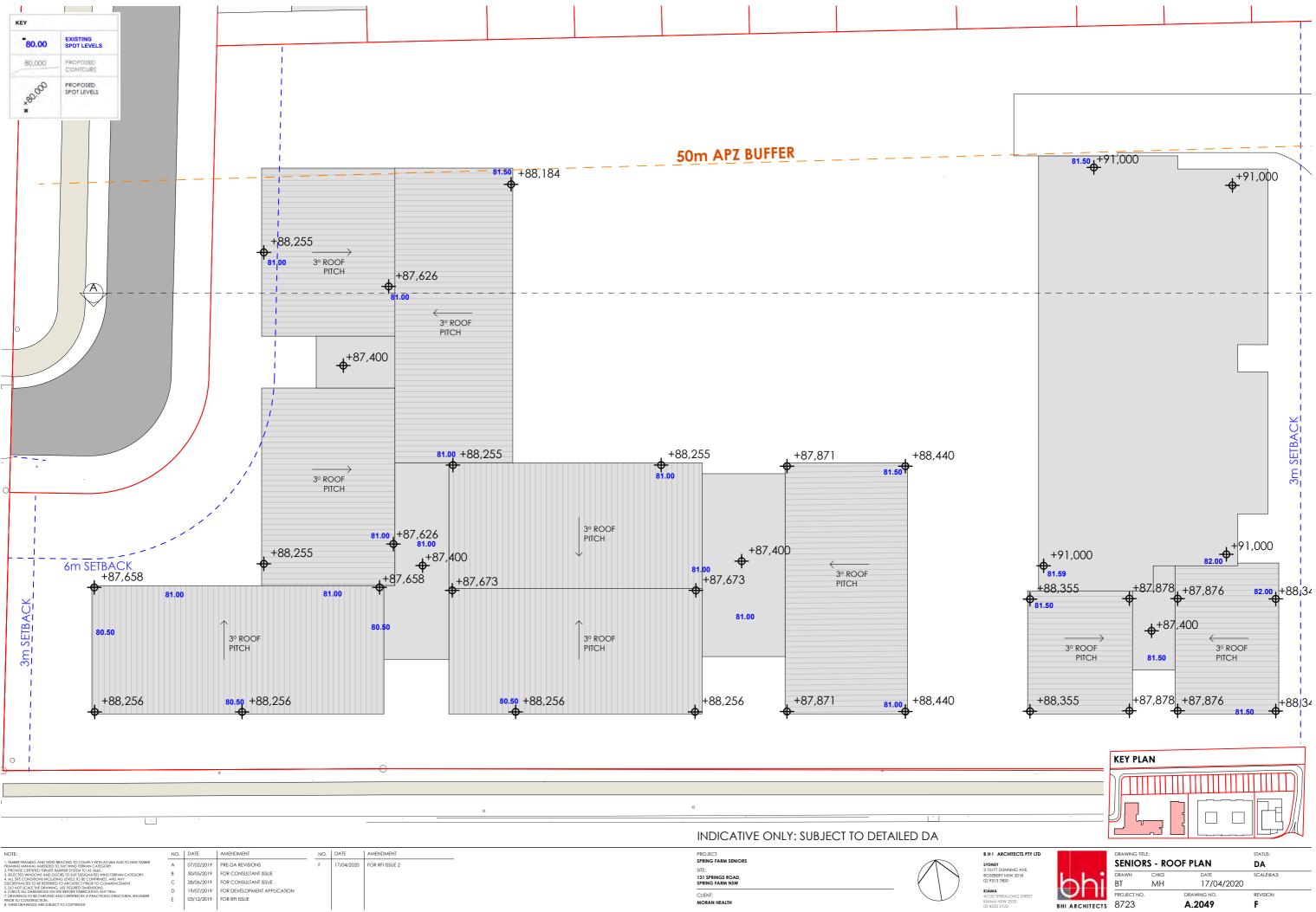
NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT		BHIA
1. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY.	А	07/02/2019	PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS		SYDNEY
PROVIDE CERTIFIED TERNITE BARRIER SYSTEM TO AS 3640 SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY. 4. ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED. AND ANY	В	30/05/2019	FOR CONSULTANT ISSUE				SITE: 131 SPRINGS ROAD.		3.10/77 D ROSEBER
 ALL SILE CONTINUES INCLUDING LEVELS TO BE CONTINUED, AND ANY DISCREPANCIES TO BE REFERED TO ARCHITECT PRIOR TO COMMENCEMENT. DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS. 	С	28/06/2019	FOR CONSULTANT ISSUE				SPRING FARM NSW	()	02 9313 7
 CHECK ALL DIMENSIONS ON SITE BEPORE FABRICATING ANY ITEM. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER 	D	19/07/2019	FOR DEVELOPMENT APPLICATION				CLIENT:		KIAMA 4/125 TER
BANNINGS TO BE CHICKED AND CERTIFIED IT AT ACTICING STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION 8. THESE DRAWINGS ARE SUBJECTTO COPYRIGHT.	E	03/12/2019	FOR RFI ISSUE				MORAN HEALTH	\square	4/123 TER KIAMA N 02 4232 2



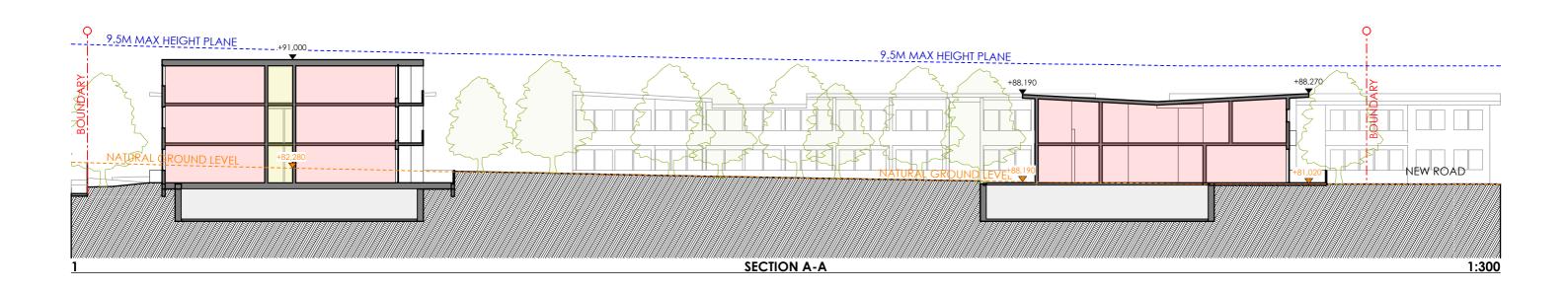


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NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT			BI	ЯI
 TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY. 	А	07/02/2019	PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS	Λ			DN
 PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3660 SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY. 	В	30/05/2019	FOR CONSULTANT ISSUE				SITE: 131 SPRINGS ROAD.		$ \rangle$		10/7 DSEE
 ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT. 	С	28/06/2019	FOR CONSULTANT ISSUE				SPRING FARM NSW	Y		02	931
 DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER 	D	19/07/2019	FOR DEVELOPMENT APPLICATION				CUENT:		\backslash		AM/
7. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT.	E	03/12/2019	FOR RFI ISSUE				MORAN HEALTH			KIA	125 A.M.A 423
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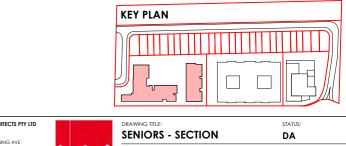


NOTE:	NO.	DATE	AMENDMENT	NŌ.	DATE	AMENDMENT	PROJECT		B
1. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY.	А		PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS	\bigwedge	s
2. PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3660 3. SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY.	В	30/05/2019	FOR CONSULTANT ISSUE				SILE: 131 SPRINGS ROAD.		3 P
 ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT. DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS. 	С	28/06/2019	FOR CONSULTANT ISSUE				SPRING FARM NSW		0
 DO NOT SCALE THE DRAWING, USE PIGURED DIMENSIONS. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER 	D		FOR DEVELOPMENT APPLICATION				CLIENT:		K
PRIOR TO CONSTRUCTION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT.	E	03/12/2019	FOR RFI ISSUE				MORAN HEALTH		K
6. THESE DRAWINGS ARE SUBJECT TO COPTINISHT.									0

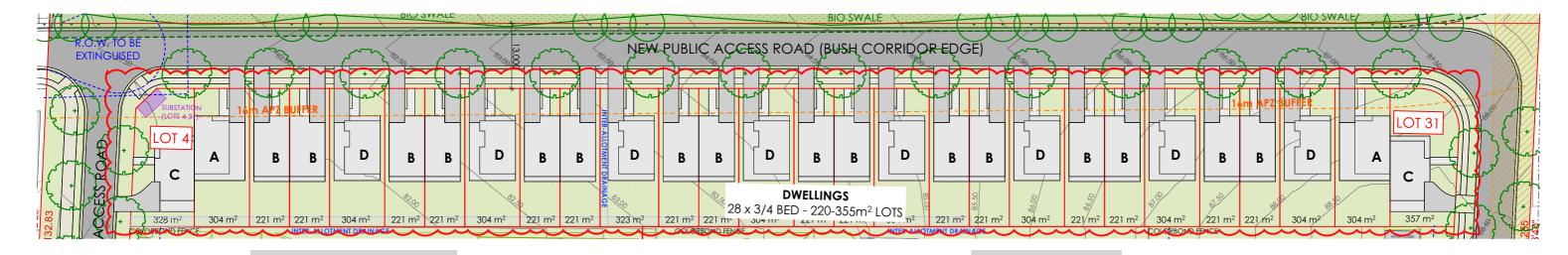


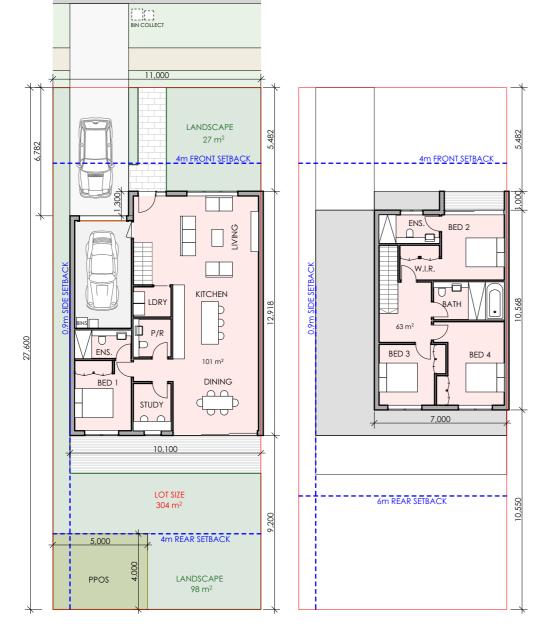
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NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT	
1. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY.	А	07/02/2019	PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS	
 PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3640 SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY. ALL STE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY 	В	30/05/2019	FOR CONSULTANT ISSUE				131 SPRINGS ROAD.	
 ALL SHE CONDITIONS INCLUDING LEVELS TO BE CONTINUED, AND ANY DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT. DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS. 	С		FOR CONSULTANT ISSUE				SPRING FARM NSW	
 CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER 	D		FOR DEVELOPMENT APPLICATION				CLIENT:	
PRIOR TO CONSTRUCTION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT.	E	03/12/2019	FOR RFI ISSUE				MORAN HEALTH	



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ISW 2018	1 1 •	DRAWN	CHKD	DATE	SCALE@A3:
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LONG STREET		PROJECT NO.		DRAWING NO.	REVISION
2533 5	BHI ARCHITECTS	8723		A.2034	F

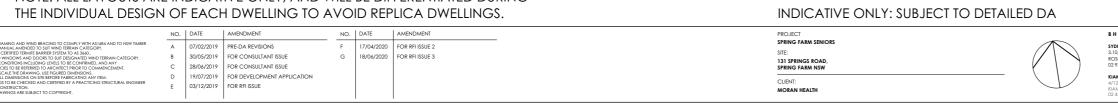


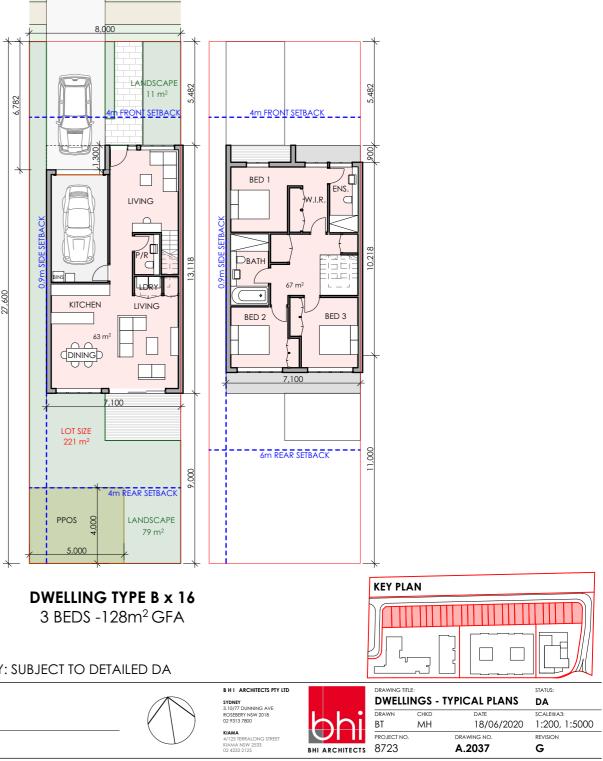


DWELLING TYPE A x 2 4 BEDS -164m² GFA

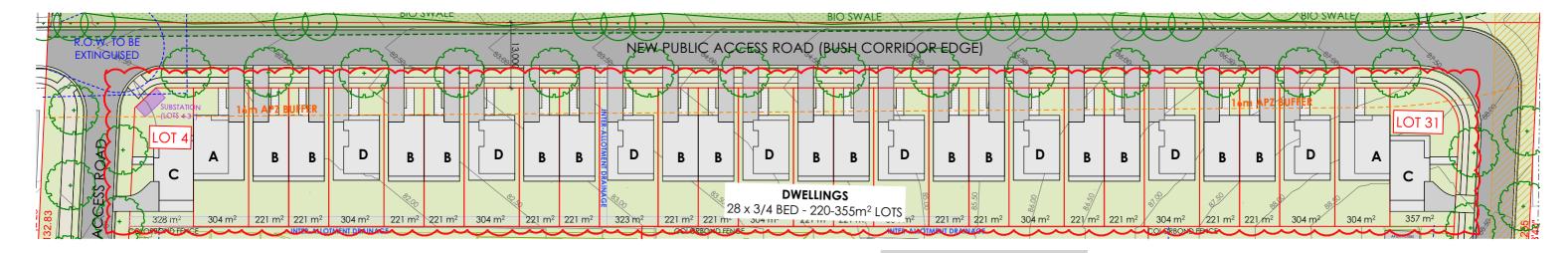
NOTE: ALL LAYOUTS ARE INDICATIVE ONLY, AND WILL BE DIFFERENTIATED DURING

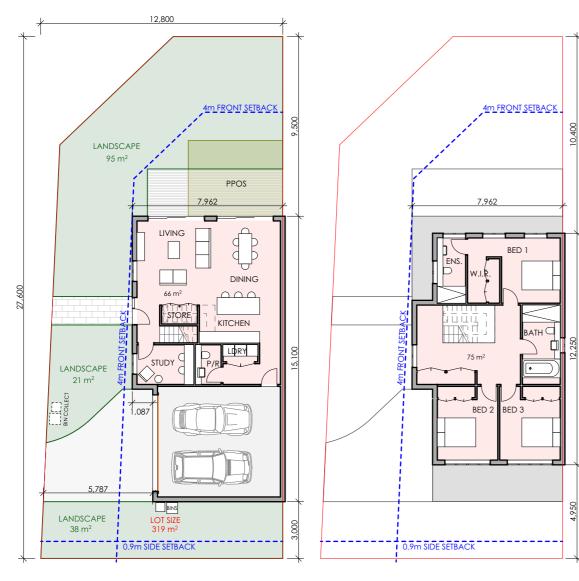
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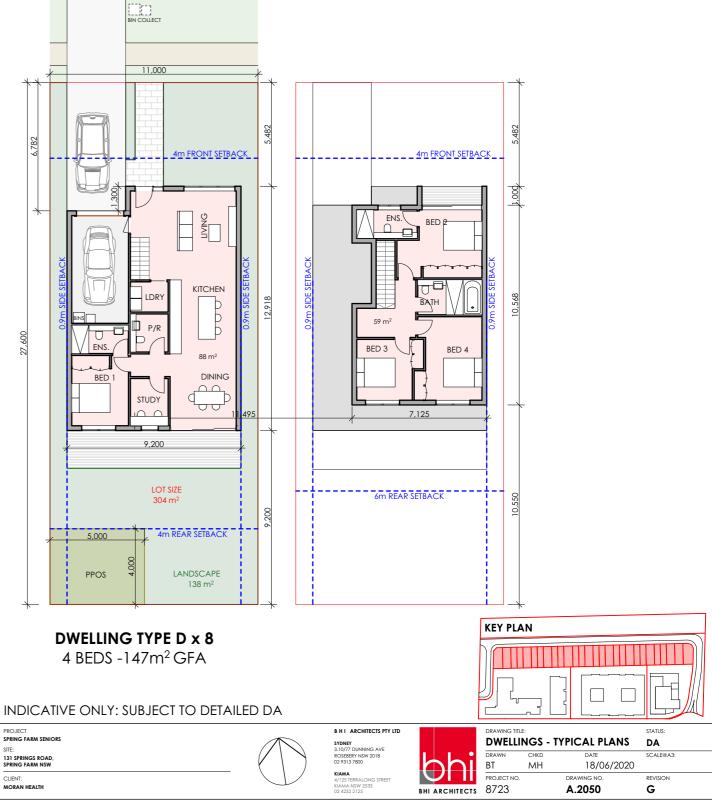




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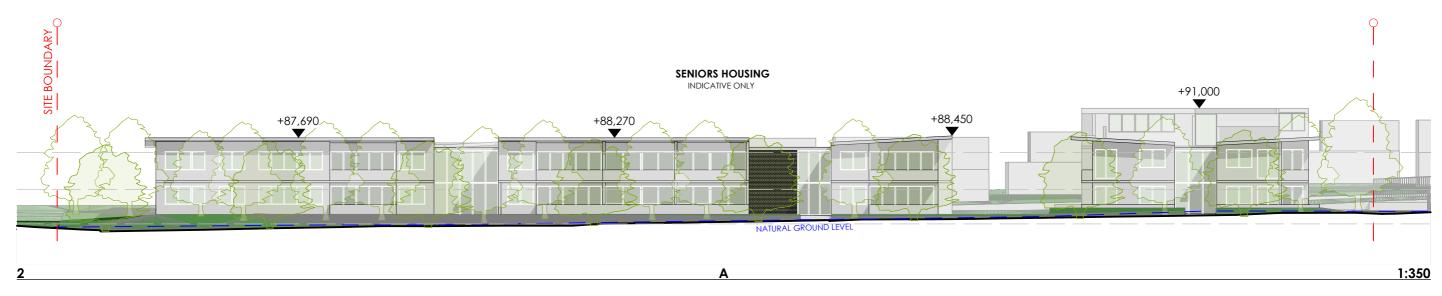


DWELLING TYPE C x 2 3 BEDS -141m² GFA

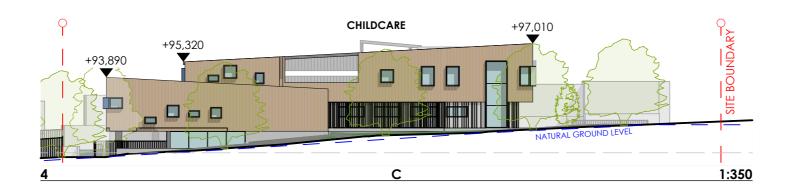
NOTE: ALL LAYOUTS ARE INDICATIVE ONLY, AND WILL BE DIFFERENTIATED DURING THE INDIVIDUAL DESIGN OF EACH DWELLING TO AVOID REPLICA DWELLINGS.

PROJECT Spring Farm Seniors NO. DATE AMENDMENT NO. DATE AMENDMENT NOTE А 07/02/2019 PRE-DA REVISIONS F 17/04/2020 FOR RFI ISSUE 2 D TO SUIT WIND TERRAIN CATEGORY. 'E BARRIER SYSTEM TO AS 3660.. DOORS TO SUIT DESIGNATED WIND TERRAIN CATE UDING LEVEIS TO BE CONFIRMED, AND ANY RED TO ARCHITECT PRIOR TO COMMENCEMENT. В 30/05/2019 FOR CONSULTANT ISSUE G 18/06/2020 FOR RFI ISSUE 3 131 SPRINGS ROAD, SPRING FARM NSW 28/06/2019 FOR CONSULTANT ISSUE С D 19/07/2019 FOR DEVELOPMENT APPLICATION ITEM. CLIENT: MORAN HEALTH Е 03/12/2019 FOR RFI ISSUE

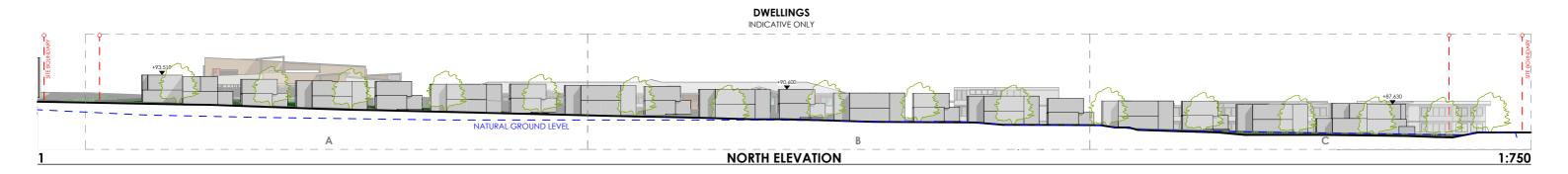


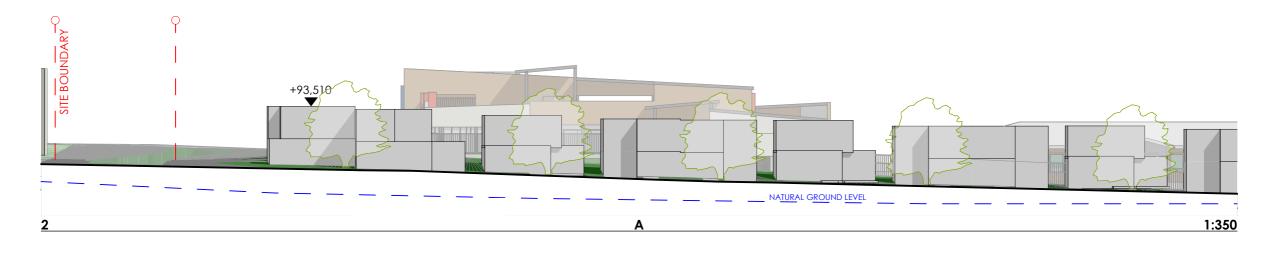


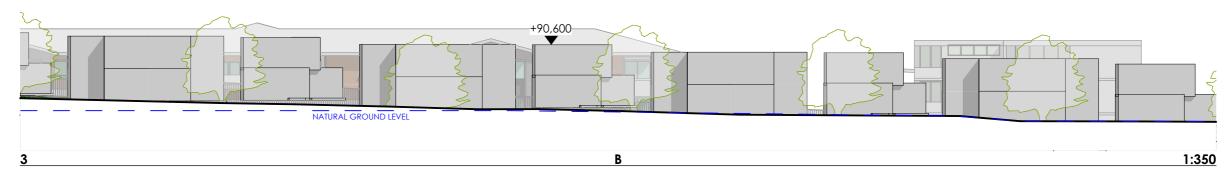


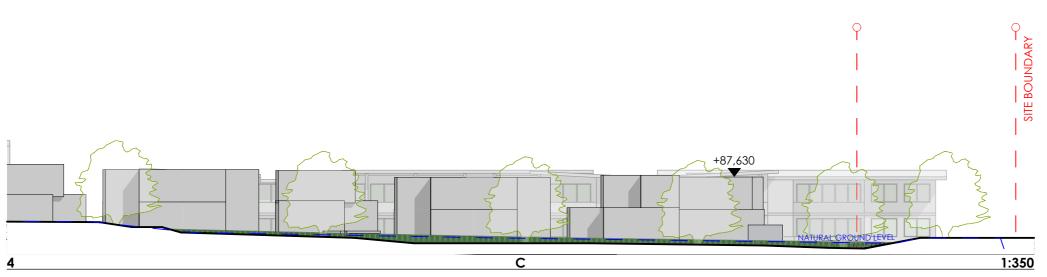


NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT	B H I ARCHITECTS PTY LTD		DRAWING	TITLE:		STATUS:
1. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY. 2. REDUING CERTIFIED THE INTER REPORTS VIEW TO AS 24/0	A	07/02/2019	PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS	SYDNEY 3.10/77 DUNNING AVE	1.	SOUT	H ELEVA	TION (FRONT)	DA
2. FROME CERTIFIED TERMITE DRAFES STATEM TO AS 360 3. SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY.	В	30/05/2019	FOR CONSULTANT ISSUE				131 SPRINGS ROAD.	ROSEBERY NSW 2018 02 9313 7800	1 1 •	DRAWN	CHKD	DATE	SCALE@A3:
4. ALL SHE CONDITIONS INCLUDING LEVELS TO BE CONTRIMED, AND ANY DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT.	С	28/06/2019	FOR CONSULTANT ISSUE				SPRING FARM NSW	02 9313 7800	nni	BT	MH	17/04/2020	1:750, 1:350
 DO NOI SCALE THE DRAWING, USE HIGURED DIMENSIONS. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. 	D	19/07/2019	FOR DEVELOPMENT APPLICATION				CLIENT:	KIAMA			0	DRAWING NO.	REVISION
 DRAWINGS TO BE CHECKED AND CERTIFIED BY A RACTICING STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT. 	E	03/12/2019	FOR RFI ISSUE				MORAN HEALTH	4/125 TERRALONG STREET KIAMA NSW 2533 02 4232 2125	BHI ARCHITECTS	8723		A.3001	F



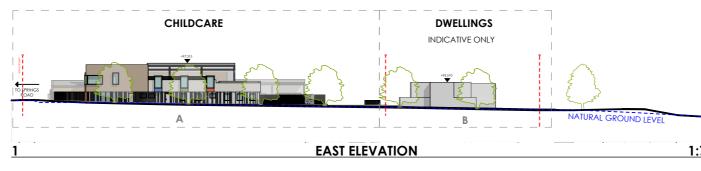


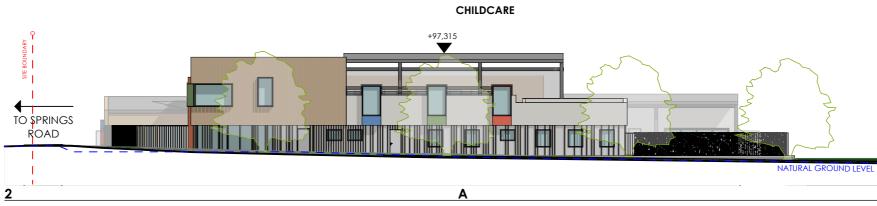


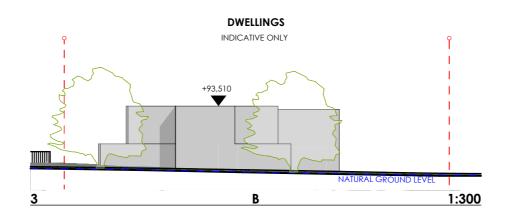


NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT		BHI ARCI
ITIMEER FRAMING AND WIND BRACING TO COMPLY WITH ASTARA AND TO NSW TIMEER FRAMING MANUAL AMENDED TO SITU INTO TERMA CHARGERY. 2. PROVIDE CERTIFED TERMITE BARGIES SYSTEM TO AS 3460. SUBCCTE WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERMA CHARGORY. 4. ALL STE CONDITIONS IN CLUDING LEVELS TO BE CONTRIMED, AND ANY DOCKEPANICIDE TO BE REFERED TO ASCINCTENT FROM TO TO COMMENCEMENT.		30/05/2019	PRE-DA REVISIONS FOR CONSULTANT ISSUE FOR CONSULTANT ISSUE	F	17/04/2020	FOR RFI ISSUE 2	SITE:	SYDNEY 3.10/77 DUNI ROSEBERY N3 02 9313 7800
5. DO NOT SCALE THE DRAWING, USE FIGURED DUMENSION. 6. CHECK ALL DUMENSION ON SITE SEPERT PARABCHING ANY TEM. 7. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER PROKING COCREMICION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRGHT.	D		FOR DEVELOPMENT APPLICATION FOR RFI ISSUE				CLIENT:	KIAMA 4/125 TERRAI KIAMA NSW 02 4232 2125

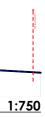
CHITECTS PTY LTD		DRAWING TITLE		ON (REAR)	STATUS: DA
NNING AVE NSW 2018 00	hhi	drawn BT	снкр МН	date 17/04/2020	SCALE®A3: 1:750, 1:350
ALONG STREET N 2533 25		PROJECT NO. 8723		DRAWING NO. A.3002	revision F





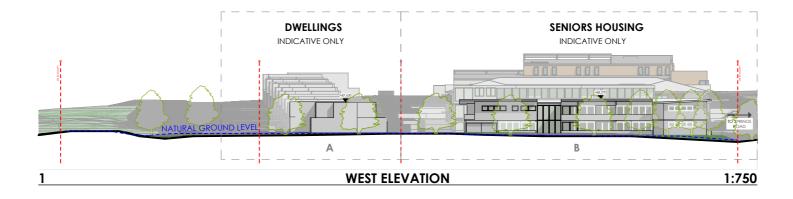


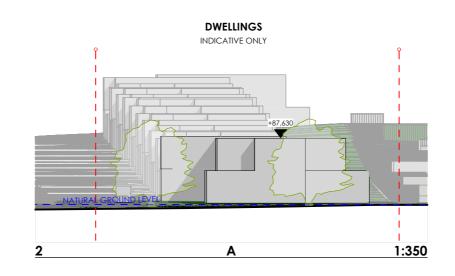
NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT	BHI ARG
1. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY.	А	07/02/2019	PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS	SYDNEY
2. PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3660 3. SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY.	В	30/05/2019	FOR CONSULTANT ISSUE				SITE: 131 SPRINGS ROAD.	3.10/77 DU ROSEBERY
4. ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY DISCREPANCIES TO BE REFEREND TO ARCHITECT PRIOR TO COMMENCEMENT. 5. DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS.	С	28/06/2019	FOR CONSULTANT ISSUE				SPRING FARM NSW	02 9313 78
 DO NOT SCALE THE DRAWING, USE INCORED DIMENSIONS. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER 	D	19/07/2019	FOR DEVELOPMENT APPLICATION				CLIENT:	KIAMA 4/125 TERR
7. DRAWINGS I DE CHECKEU AND CENTREU BY A PRACTICING STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT.	E	03/12/2019	FOR RFI ISSUE				MORAN HEALTH	4/125 TERR KIAMA NSV 02 4232 21

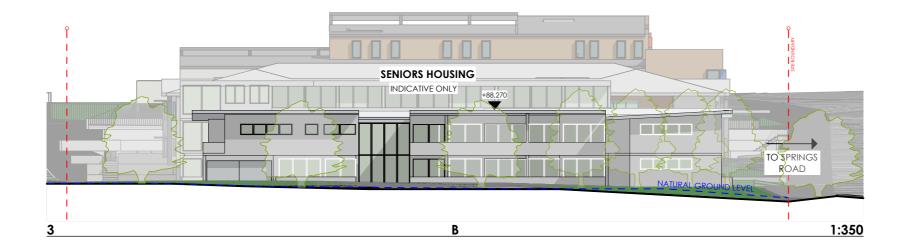




JNNING AVE NSW 2018 00	bhi	DRAWN BT	снкр МН	DN (SIDE) DATE 17/04/2020	DA SCALE@A3: 1:750, 1:300
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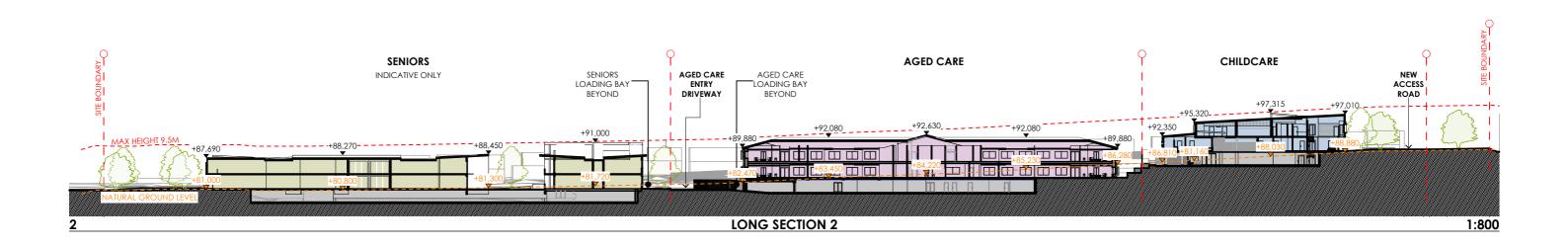


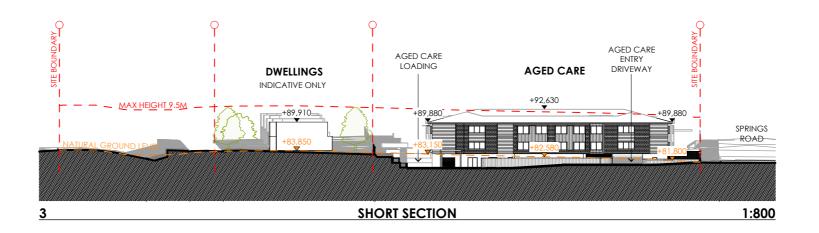


NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT	BHI ARCH
TIMERE FRANKIC AND WIND BRACING TO COMPLY WITH ASIAE AND TO NOW TIMEE FANNIG ANALVANA ANOTECR'S DI STUTION TERRAIN CARGORY: PROVIDE CERTIFICIA MARTINES TO BE CONFIDENCE PROVIDE CERTIFICIA MARTINES ARRES ASIT MILLION AS MAD. SUBJECTION WINDOWS AND DOORS TO SUIT DISCIGNATED WIND TERRAIN CARGONY. ALLISTE CONDITIONS INCLUDING LEVELS TO BE CONFIDENCE AND ANT' DOORS AND DOORS TO SUIT DISCIGNATED WIND TERRAIN CARGONY. ALLISTE CONDITIONS INCLUDING LEVELS TO BE CONFIDENCE ADA ANT' DOORNOUS AND DOORS TO SUIT DISCIGNATED WIND TERRAIN CARGONY. ALLISTE CONTROL OF MARKING AND THE SUIT DISCIGNATED WIND TERRAIN CARGONY. ALLISTE CONTROL OF CHARGES AND AND THE SUIT DISCIGNATED AND ANT' DOORNOUS ON SUIT BEFORMED TO APPLICATING ANY ITEM. ACHECK AND DONROUS ON SUIT BEFORMED TO APPLICATING ANY ITEM. ACHECK AND DONROUS ON SUIT BEFORMED TO APPLICATING ANY ITEM. A. LISTE DERVINNED AS EVALUATED. ACHECK AND AND CERTIFIED Y A PARCITICING STRUCTURAL ENGINEER PROK INC CONSTRUCTION. A LISTE DERVINNED AND AND AND AND AND AND AND AND AND AN	A B C D E		PRE-DA REVISIONS FOR CONSULTANT ISSUE FOR CONSULTANT ISSUE FOR DEVELOPMENT APPLICATION FOR RFI ISSUE	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS SITE: I31 SPRINGS ROAD, SPRING FARM NSW CUENT: MORAN HEALTH	SYDNEY 3.10/77 DUNN ROSEBERY NSV 02 9313 7800 KIAMA 4/125 TERRALC KIAMA NSW 2: 02 4232 2125

ITECTS PTY LTD		DRAWING TITLE		ON (SIDE)	STATUS: DA
IING AVE W 2018	hhi	drawn BT	снкр МН	DATE 17/04/2020	SCALE®A3: 1:750, 1:350
ONG STREET 2533		PROJECT NO. 8723		DRAWING NO. A.3004	revision F

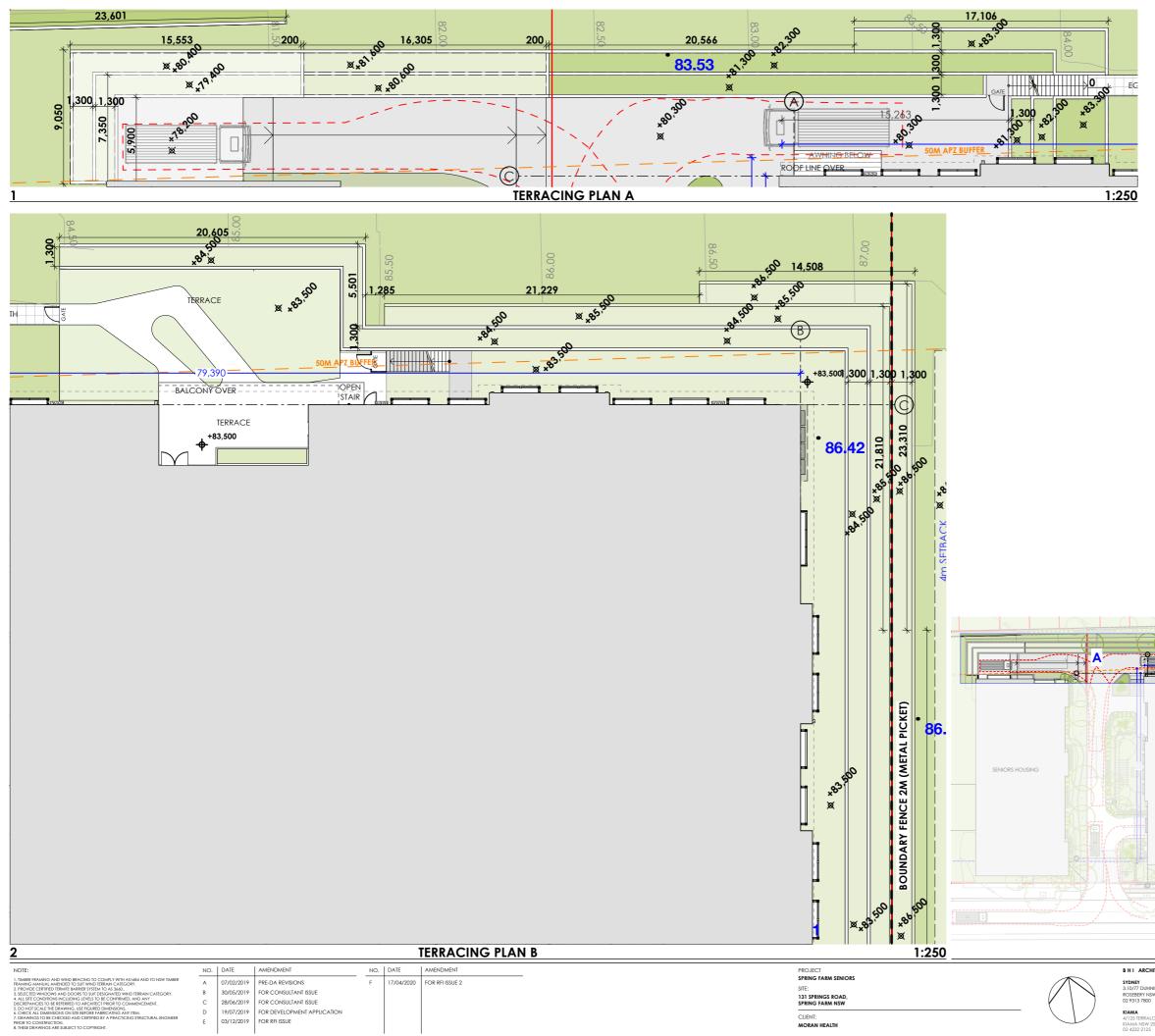






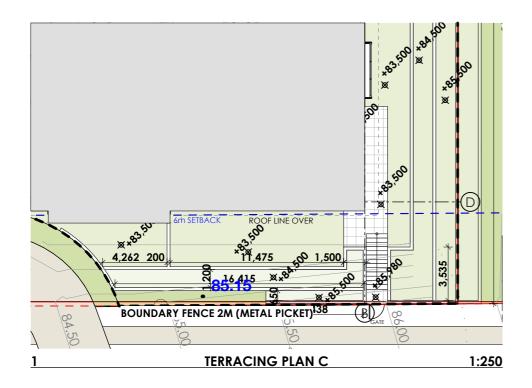
NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT	BHI ARC
1. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY.	A	07/02/2019	PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS	SYDNEY
 PROVIDE CERTIFIED TERMITE BARRIES SYSTEM TO AS 3640 SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY. ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED. AND ANY 	В	30/05/2019	FOR CONSULTANT ISSUE				SITE: 131 SPRINGS ROAD,	3.10/77 DUN ROSEBERY N
 AL SITE CONDITIONS INCLUDING LEVES TO BE CONTINUED, AND ANY DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT. DO NOT SCALE THE DRAWING. USE FIGURED DIMENSIONS. 	С	28/06/2019					SPRING FARM NSW	02 9313 780
COECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. CRECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. T. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER	D	19/07/2019					CLIENT:	KIAMA 4/125 TERRA
PRIOR TO CONSTRUCTION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT.	E	03/12/2019	FOR RFI ISSUE				MORAN HEALTH	KIAMA NSW 02 4232 212

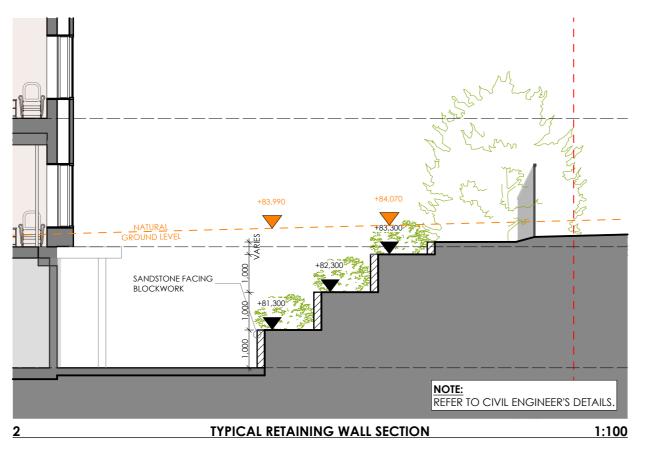
RCHITECTS PTY LTD		DRAWING TITLE: STATUS: SITE SECTIONS DA				
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RALONG STREET SW 2533 125		PROJECT NO. 8723		DRAWING NO.	revision F	



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V 2533 25	BHI ARCHITECTS	8723		T.0001	F



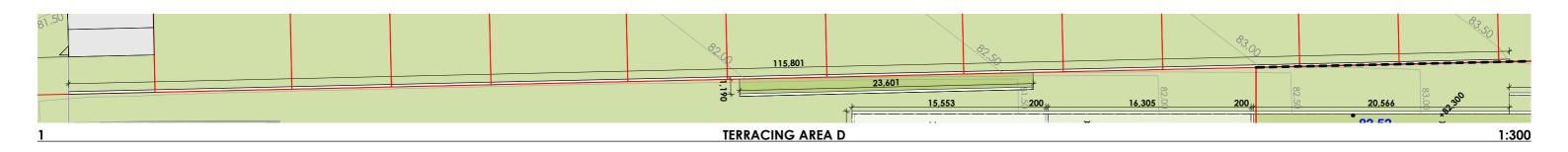


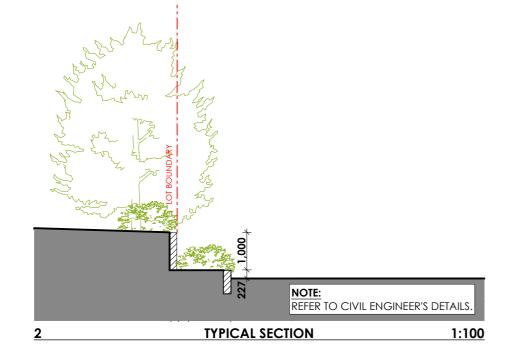
NOTE: ALL DIMENSIONS AND LEVELS ARE PRELIMINARY AND SUBJECT TO DETAILED CIVIL DESIGN.

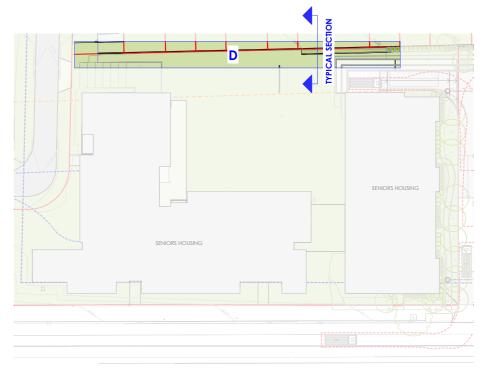
NOTE:	NO.	DATE	AMENDMENT	NŌ.	DATE	AMENDMENT	PROJECT	BHI ARC
I TUBLE FOALENCE AND WIND DEVICIES TO COURT VITH AS 1684 AND TO NSW TIMBER MARINES, NAMINE AMBERSTER DIS UNIT WIND TERMAN CONTROL AND THE AND	С	07/02/2019 30/05/2019 28/06/2019	PRE-DA REVISIONS FOR CONSULTANT ISSUE FOR CONSULTANT ISSUE FOR DEVELOPMENT APPLICATION	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS SITE: 131 SERINGS ROAD, SPRING FARM NSW	SYDNEY 3.10/77 DUNI ROSEBERY NS 02 9313 7800 KIAMA
7. DRAWINGS TO BE CHECKED AND CENTIFIED BY A PRACTICING STRUCTURAL ENGINEER PRORTIC CONSTRUCTION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT.	E	03/12/2019	FOR RFI ISSUE				MORAN HEALTH	4/125 TERRAI KIAMA NSW 02 4232 2125

TYPICAL SECTION			B		
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ALONG STREET V 2533 25		PROJECT NO. 8723		DRAWING NO. T.0002	revision F





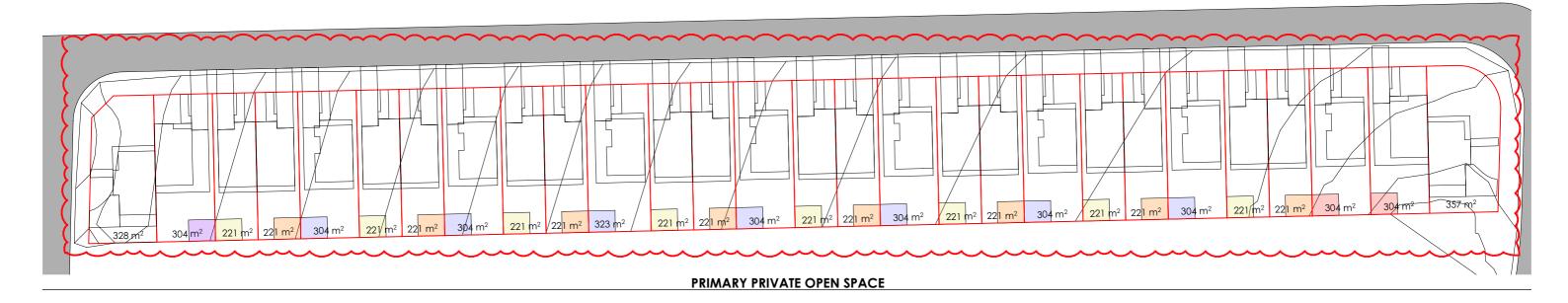


NOTE:	NO.	DATE	AMENDMENT	PROJECT		BHI ARCHITE
1. TABLE FRANKIG AND WIND BX-CING TO COMPY WITH ASIGA AND TO NSW TIMBEE FRANKIG ANALWAA MANDED TO SUIT WIND TERMAN CARECOPY. A PROVIDE CERTIFIC TRADITE MARKER SYSTEM TO AS SAG. ALL STIC CONTROL SIGNAL TO A SUIT AND TABLE AND THE ANALY AN	A B C D	30/05/2019 28/06/2019	FOR CONSULTANT ISSUE	- SPRING FARM SENIORS SITE: 131 SPRINGS ROAD, SPRING FARM NSW	\int	SYDNEY 3.10/77 DUNNIN ROSEBERY NSW : 02 9313 7800 KIAMA
 DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT. 				CUENT: MORAN HEALTH	L	4/125 TERRALON KIAMA NSW 253 02 4232 2125

KEY PLAN

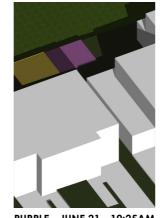
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IITECTS PTY LTD		DRAWING TITLE	8		STATUS:
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	nni	BT	MH	19/07/2019	
ONG STREET		PROJECT NO.		DRAWING NO.	REVISION
2533	BHI ARCHITECTS	8723		T.0003	D



ORANGE - JUNE 21 - 10AM

ORANGE - JUNE 21 - 12PM



PURPLE - JUNE 21 - 10:25AM

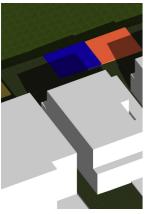


PURPLE - JUNE 21 - 12:25PM

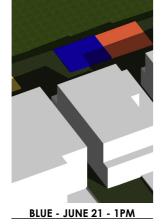


YELLOW - JUNE 21 - 1:45PM

Orange 2 hours sunlight to 50% PPOS – 10:00am – 12:00pm Purple 2 hours sunlight to 50% PPOS – 10:25am – 12:25pm Yellow 2 hours sunlight to 50% PPOS – 11:45am – 1:45pm Blue 2 hours sunlight to 50% PPOS – 11:00am – 1:00pm Red 2 hours sunlight to 50% PPOS – 11:00am – 1:00pm



BLUE - JUNE 21 - 11AM



NO. DATE

17/04/2020

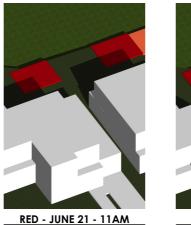
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AMENDMENT

18/06/2020 FOR RFI ISSUE 3

FOR RFI ISSUE 2





INDICATIVE ONLY: SUBJECT TO DETAILED DA

OJECT RING FARM SENIORS	
E: 1 SPRINGS ROAD, RING FARM NSW	
JENT: Oran Health	

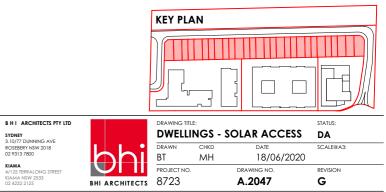


NO. DATE AMENDMENT А 07/02/2019 В 30/05/2019 С 19/07/2019 D F 03/12/2019

NOTE

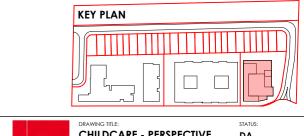
PRE-DA REVISIONS FOR CONSULTANT ISSUE 28/06/2019 FOR CONSULTANT ISSUE FOR DEVELOPMENT APPLICATION FOR RFI ISSUE







NOTE:	NO.	DATE	AMENDMENT	PROJECT	B H I ARCH
1. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY.	A	07/02/2019	PRE-DA REVISIONS	SPRING FARM SENIORS	SYDNEY
 PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3660 SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY. 	В	30/05/2019	FOR CONSULTANT ISSUE	SIIE: 131 SPRINGS ROAD.	3.10/77 DUNN ROSEBERY NSI
4. ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT. 5. DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS.	С	28/06/2019	FOR CONSULTANT ISSUE	SPRING FARM NSW	02 9313 7800
 DO NOTSCALE THE DRAWING, USE INSURED DIMENSIONS. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER 	D	19/07/2019	FOR DEVELOPMENT APPLICATION	CLIENT:	KIAMA 4/125 TERRAL
PRIOR TO CONSTRUCTION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT.				MORAN HEALTH	KIAMA NSW 2 02 4232 2125





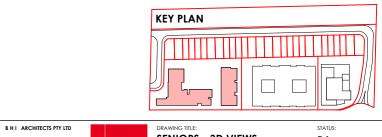




SPRINGS ROAD VIEW - FROM SOUTH EAST

NOTE:	NO.	DATE	AMENDMENT	PROJECT
1. TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY.	A	07/02/2019	PRE-DA REVISIONS	SPRING FARM SENIORS
2. PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3660 3. SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY.	В	30/05/2019	FOR CONSULTANT ISSUE	SITE: 131 SPRINGS ROAD.
 ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT. 	С	28/06/2019	FOR CONSULTANT ISSUE	SPRING FARM NSW
5. DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS. 6. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM.	D	19/07/2019	FOR DEVELOPMENT APPLICATION	CLIENT:
7. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT.	E	03/12/2019	FOR RFI ISSUE	MORAN HEALTH

INDICATIVE ONLY: SUBJECT TO DETAILED DA



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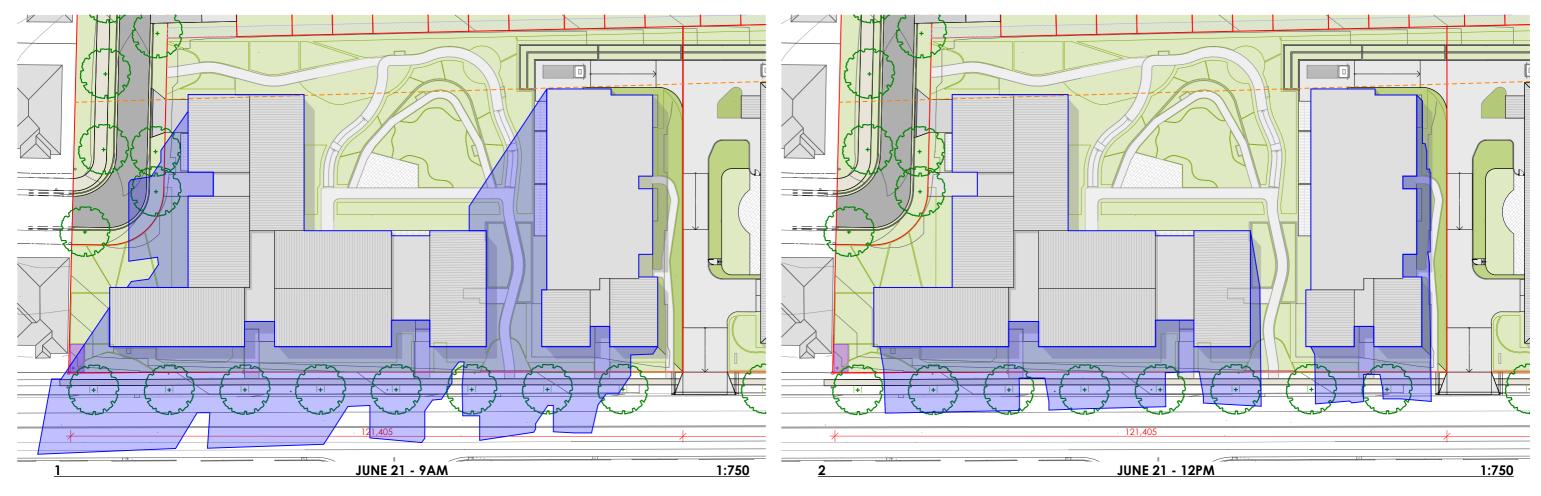
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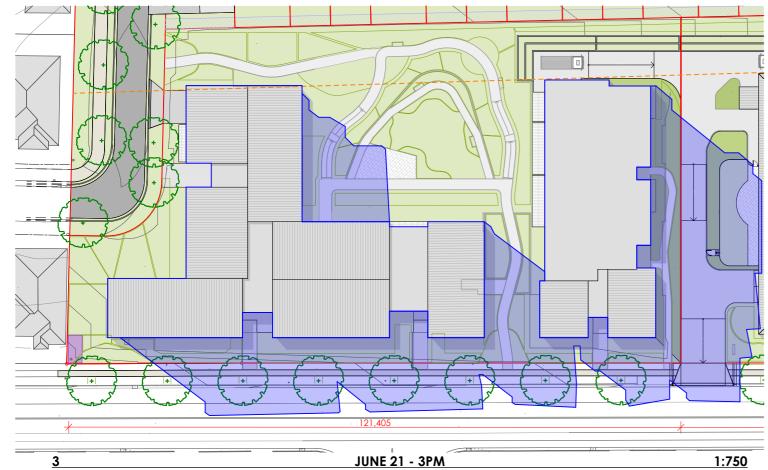
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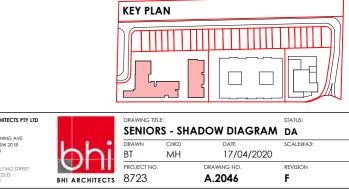
OVERSHADOWING DIAGRAMS

ADDITIONAL SHADOW IMPACT

INDICATIVE ONLY: SUBJECT TO DETAILED DA

NOTE:		DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT	BHI ARCH
 TIMBER FRAMING AND WIND BRACING TO COMPLY WITH AS1684 AND TO NSW TIMBER FRAMING MANUAL AMENDED TO SUIT WIND TERRAIN CATEGORY. 	А		PRE-DA REVISIONS	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS	SYDNEY
2. PROVIDE CERTIFIED TERMITE BARRIER SYSTEM TO AS 3660 3. SELECTED WINDOWS AND DOORS TO SUIT DESIGNATED WIND TERRAIN CATEGORY.	В	30/05/2019	FOR CONSULTANT ISSUE				SITE: 131 SPRINGS ROAD.	3.10/77 DUNN ROSEBERY NS
4. ALL SITE CONDITIONS INCLUDING LEVELS TO BE CONFIRMED, AND ANY DISCREPANCIES TO BE REFERRED TO ARCHITECT PRIOR TO COMMENCEMENT.	С	28/06/2019	FOR CONSULTANT ISSUE				SPRING FARM NSW	02 9313 7800
 DO NOT SCALE THE DRAWING, USE FIGURED DIMENSIONS. CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATING ANY ITEM. DRAWINGS TO BE CHECKED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER 	D	19/07/2019	FOR DEVELOPMENT APPLICATION				CUENT:	KIAMA 4/125 TERRAL
PRIOR TO CONSTRUCTION. 8. THESE DRAWINGS ARE SUBJECT TO COPYRIGHT.	E	03/12/2019	FOR RFI ISSUE				MORAN HEALTH	4/123 TERRAD KIAMA NSW 2 02 4232 2125
		'			,			

1:750



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LONG STREET 2533



OVERALL HEIGHT DIAGRAM VIEW

NOTE:	NO.	DATE	AMENDMENT	NO.	DATE	AMENDMENT	PROJECT	BHI A
I. TIMBER FRAMING: AND WIND BRACING TO COMPLY WITH ASIABA AND TO NSW TIMBER FRAMING AMAYLAIA ANENDED TO SUITI WIND TBRANN CATEGORY. 2. PROVIDE CERTIFIC TIBRITIE BARBER SYSTEM TO AS 3460. 3. SELECTED WIND TORS AND ADORD'S TO SUITI DESIGNATIONE WIND TBRANN CATEGORY. 4. ALL SITE CONDITIONS MIN DORDS LEVELS TO BE CONFIRMED, AND ANY DECEMPANICIS TO BE RETIRERED TO ARCHITECT INFORM CO COMMENCEMENT.	В	07/02/2019 30/05/2019 28/06/2019	PRE-DA REVISIONS FOR CONSULTANT ISSUE FOR CONSULTANT ISSUE	F	17/04/2020	FOR RFI ISSUE 2	SPRING FARM SENIORS SITE: 131 SPRINGS ROAD, SPRING FARM NSW	SYDNEY 3.10/77 ROSEBEF 02 9313
 DO NOT SCALE THE DRAWING, USE FIGURED DUMENSIONS. CHECK ALL DUMENSION ON SITE EVERTHERABILITY AND THEM. DRAWINGS TO BE CHECKED AND CERTIFED BY A PRACTICING STRUCTURAL ENGINEER PROCE TO CONSTRUCTION. HEBE DRAWINGS ARE SUBJECT TO COPYRIGHT. 	D E	19/07/2019 03/12/2019	FOR DEVELOPMENT APPLICATION FOR RFI ISSUE				CLIENT: MORAN HEALTH	KIAMA 4/125 TEI KIAMA N 02 4232 :

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HITECTS PTY LTD		DRAWING TITLE			STATUS:
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LONG STREET		PROJECT NO.		DRAWING NO.	REVISION
2533 5	BHI ARCHITECTS	8723		A.2048	F

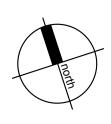




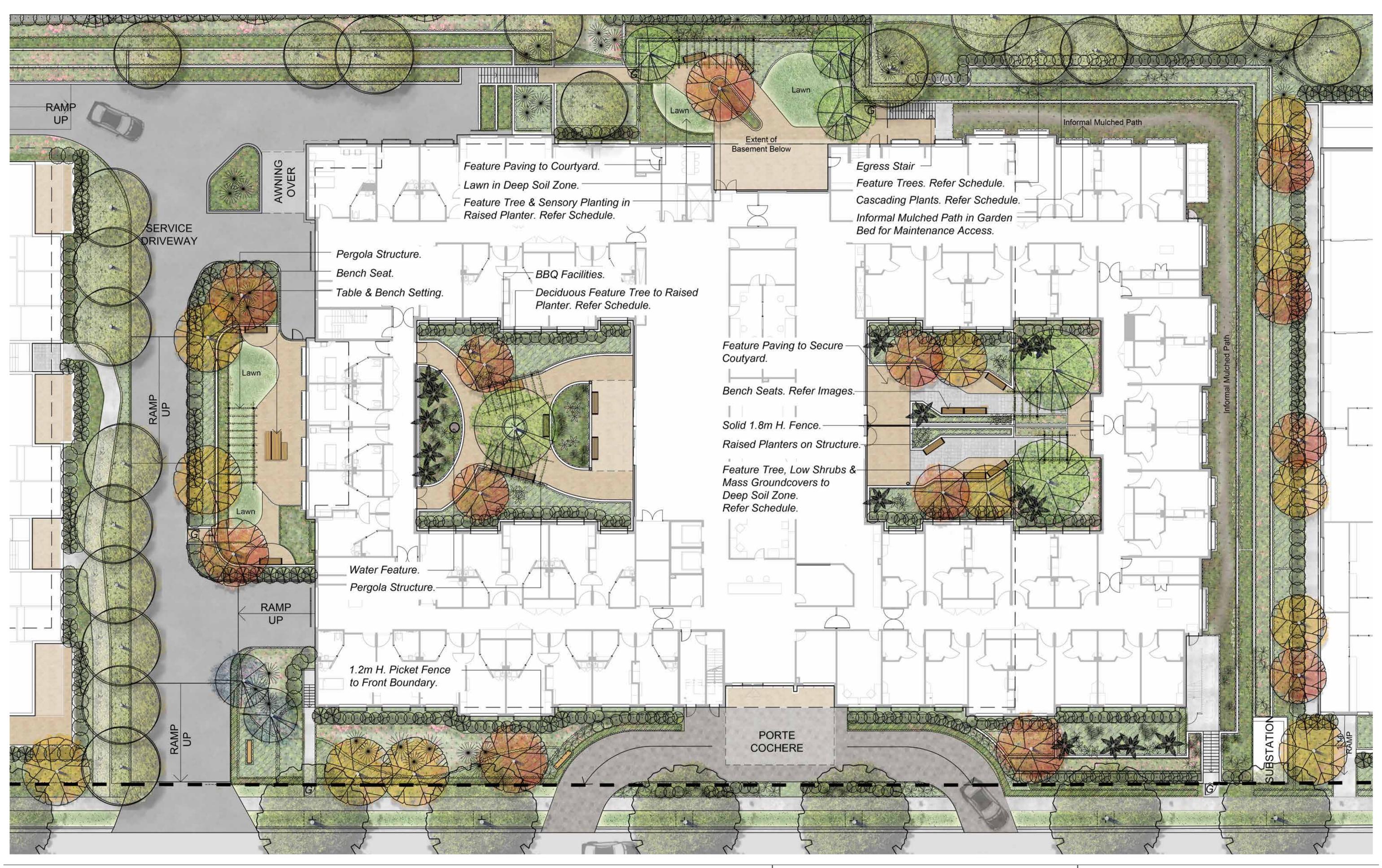
SPRING FARM SENIORS LIVING 131 SPRINGS ROAD SPRING FARM

1/28 Adelaide Street • PO Box 4400 • East Gosford • NSW 2250 • P: 02 4302 0477 • M: 0419 190 388 • ABN 12 129 231 269





CLIENT	MORAN HEALTH CARE GROUP	REVISION E
PROJECT NO	19055	DATE 16.04.20
DRAWING NO	L101	
SCALE	1:800 @ A3	
	1:400 @ A1	20m





SPRING FARM SENIORS LIVING 131 SPRINGS ROAD SPRING FARM

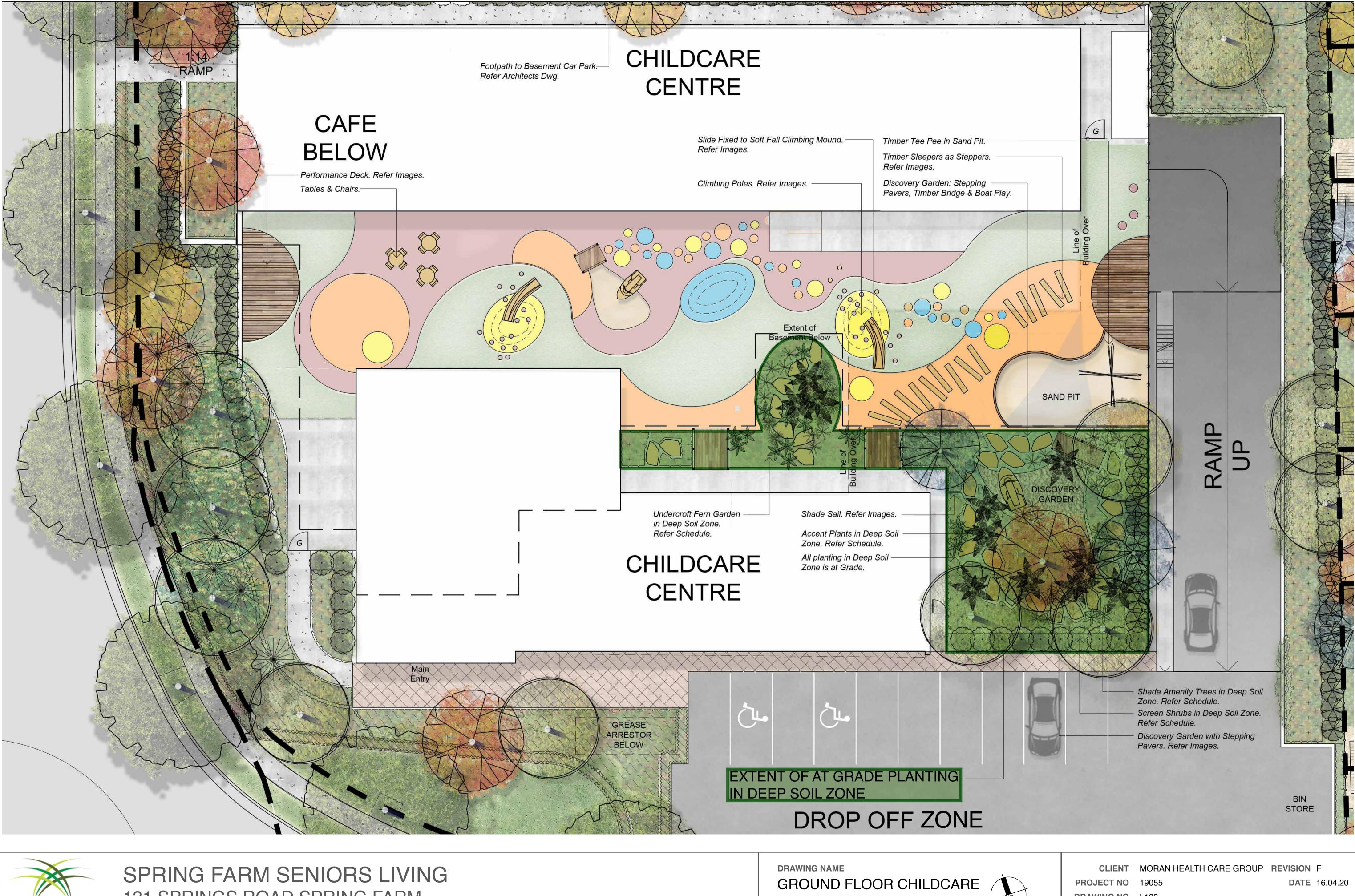
1/28 Adelaide Street • PO Box 4400 • East Gosford • NSW 2250 • P: 02 4302 0477 • M: 0419 190 388 • ABN 12 129 231 269

DRAWING NAME **RESIDENTIAL AGED CARE** FACILITY LANDSCAPE PLAN



PROJECT NO 19055 DRAWING NO L102

CLIENT MORAN HEALTH CARE GROUP REVISION E **DATE** 16.04.20 SCALE 1:300 @ A3 1:150 @ A1



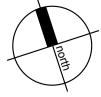


131 SPRINGS ROAD SPRING FARM

1/28 Adelaide Street • PO Box 4400 • East Gosford • NSW 2250 • P: 02 4302 0477 • M: 0419 190 388 • ABN 12 129 231 269



LANDSCAPE PLAN



DRAWING NO L103

SCALE 1:200 @ A3 1:100 @ A1





SPRING FARM SENIORS LIVING 131 SPRINGS ROAD SPRING FARM

1/28 Adelaide Street • PO Box 4400 • East Gosford • NSW 2250 • P: 02 4302 0477 • M: 0419 190 388 • ABN 12 129 231 269

DRAWING NAME LEVEL 1 CHILDCARE LANDSCAPE PLAN



PROJECT NO 19055 DRAWING NO L104

CLIENT MORAN HEALTH CARE GROUP REVISION E **DATE** 16.04.20 **SCALE** 1:200 @ A3 1:100 @ A1

Image	Кеу	Botanical Name	Common Name	Mature Height (m.)	Mature Spread (m.)	Pot Size	Comments		
Street Tr									
	Ere Lco	Elaeocarpus reticulatus Lophostemon confertus	Blue Berry Ash Brush Box	8 8	4 6	75L 75L	Stakes and ties Stakes and ties		
01	TLu	Tristaniopsis 'Luscious'	Luscious Water Gum	8	5	75L 75L	Stakes and ties		
Shade A				0	0				
	Asm	Acmena smithii	Lilly Pilly	10	5	45L	Stakes and ties		
	Bac	Brachychiton acerifolius	Illawarra Flame Tree	15	5	75L	Stakes and ties		
00	Can	Cupaniopsis anacardioides		7	5	45L	Stakes and ties		
02	Gfe Sau	Glochidion ferdinandi Syzygium australe	Cheese Tree Scrub Cherry	8 8	6 4	45L 25L	Stakes and ties Stakes and ties		
	WSw	Waterhousia 'Sweeper'	Weeping Lilly Pilly	10	4 7	25L 75L	Stakes and ties		
Small Fe	ature Tre	ees							
03	Bin	Banksia integrifolia	Coast Banksia	12	4	45L	Stakes and ties		
	Bce	Buckinghamia celsissima	Ivory Curl Flower	6	3	45L	Stakes and ties		
	Cgu Ere	Ceratopetalum gummiferum Elaeocarpus reticulatus	NSW Christmas Bush Blueberry Ash	6 6	1.5 4	45L 45L	Stakes and ties Stakes and ties		
	Hfl	Hymenosporum flavum	Native Frangipani	6	4	45L	Stakes and ties		
04	SPi	Syzigium australe 'Pinnacle'	Pinnacle Narrow Lilly Pilly	6	1.5	45L	Stakes and ties		
05	TAI	Tibouchina 'Alstonville'	Tibouchina/Lisiandra	6	3	45L	Stakes and ties		
Screenin	ig Shrub	s > 1.5m							
06	BIR	Breynia cernua 'Ironstone Range'	Coffee Bush	2	1.5	300mm			
	GHG	Grevillea 'Honey Gem'	Spider Flower Grevillea	4	3	300mm			
	MFF PRR	Metrosideros collina 'Fiji Fire' Photinia x fraseri 'Red Robin'	Fiji Fire NZ Christmas Bush Red Robin Photinia	1.5 3	1.5 2	300mm 300mm			
	RCW	Raphiolepis indica 'Cosmic White'	Cosmic White Indian Hawthorn		1.5	300mm			
Shrubs <	< 1.5m								
07	CBJ	Callistemon 'Better John'	Better John Bottlebrush	1.2	0.9	200mm			
	GCV	Grevillea 'Crimson Villa'	Crimson Villa	0.7	0.7	200mm			
	Hpe	Helichrysum petiolare	Licorice Plant	0.5	1	200mm			
08	RAB Wfe	Raphiolepis indica 'Ápple Blossom' Westringia 'fruiticosa	Apple Blossom Hawthorn Coastal Rosemary	1 1.2	1 1.2	200mm 200mm			
00	4416	westingia inditicosa	Coastal hosemary	1.2	1.2	20011111			
Mass Pla	anted Gre ALR	oundcovers Alternanthera dentata 'Little Ruby'	Littly Ruby	0.5	0.5	140mm			
09	ARV	Anigozanthus 'Ruby Velvet'	Ruby Velvet Kangaroo Paw	0.4	0.3	140mm			
	Cne	Convolvulus cneorum	Silver Bush	0.5	1	140mm			
10	DLJ	Dianella caerulea 'Little Jess'	Little Jess Flax Lily	0.4	0.4	140mm			
	Lls PKi	Liriope muscari 'Isabella' Poa labillardieri 'Kingsdale'	Isabella Fine Leaf Liriope Blue Tussock Grass	0.4 0.45	0.5 0.45	140mm 140mm			
Low Bor	der Plan	ting							
	CFC	Carex albula 'Frosted Curls'	New Zealand Hair Sedge	0.6	0.6	140mm			
11	CDF	Chrysocephalum apiculatum 'Desert Flame'	Yellow Buttons	0.5	0.3	140mm			
12	LWi	Lomandra confertifolia 'Wingarra'	Lomandra Wingarra	0.4	0.6	140mm			
	Vhe	Viola hederacea	Native Violet	0.1	0.3	140mm			
Casadir	or Dionti								
Cascadir	CCI	ng Casuarina glauca 'Cousin It'	Cousin It	0.3	1	140mm			
13	HMe	Hardenbergia violacea 'Meema'	Meema Snake Vine	0.5	2	140mm			
	RBL	Rosmarinus officinalis 'Blue Lagoon'	' Blue Lagoon Rosemary	0.3	1	140mm			
Shade To	olerant P	Planting							
14	Aca	Alpinia caerulea	Native Ginger	1.5	0.5	140mm			
	Aci	Arthropodium cirratum	NZ Rock Lily	0.8	0.8	140mm			
15	Bnu	Blechnum nudum	Fishbone Water Fern	0.7	0.5	140mm			
	Cmi Mco	Clivea miniata Macrozamia communis	Clivea Lily Burrawang	0.4 1	0.5 1.5	140mm 140mm			
	PXa	Philodendron 'Xanadu'	Xanadu Dwarf Philodendron	0.8	0.8	140mm			
Climbers	5								
	Can	Cissus antartica	Kangaroo Vine	6		140mm			
16	Pja Pve	Pandorea jasminoides Pyrostegia venusta	Bower of Beauty Orange Trumpet Vine	5 10		140mm 140mm			
Riparian			- '						
	Cap	Carex appressa	Tall Sedge	.8	.6	140mm			
	DLR	Dianella revoluta Little Rev	Blue Flax-lily	.4	.4	140mm			
	Fno	Ficinia nodosa	Knobby Club Rush	1	.8	140mm			
	Jef	Juncus effusus	Common Rush	1	1	140mm			
	LTa	Lomandra longifolia Tanika	Lomandra Tanika	.6	.65	140mm			



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Xeriscapes 1/28 Adelaide Street • PO Box 4400 • East Gosford • NSW 2250 • P: 02 4302 0477 • M: 0419 190 388 • ABN 12 129 231 269

DRAWING NAME INDICATIVE PLANT SCHEDULE







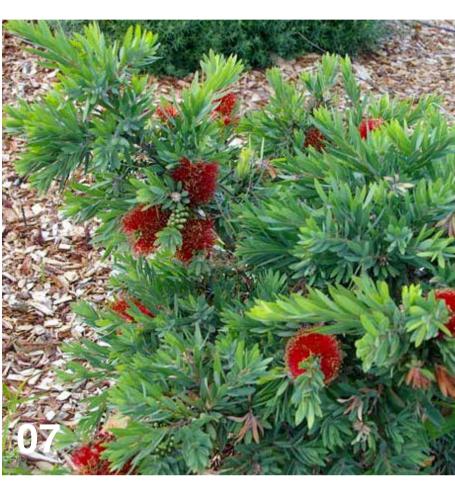
























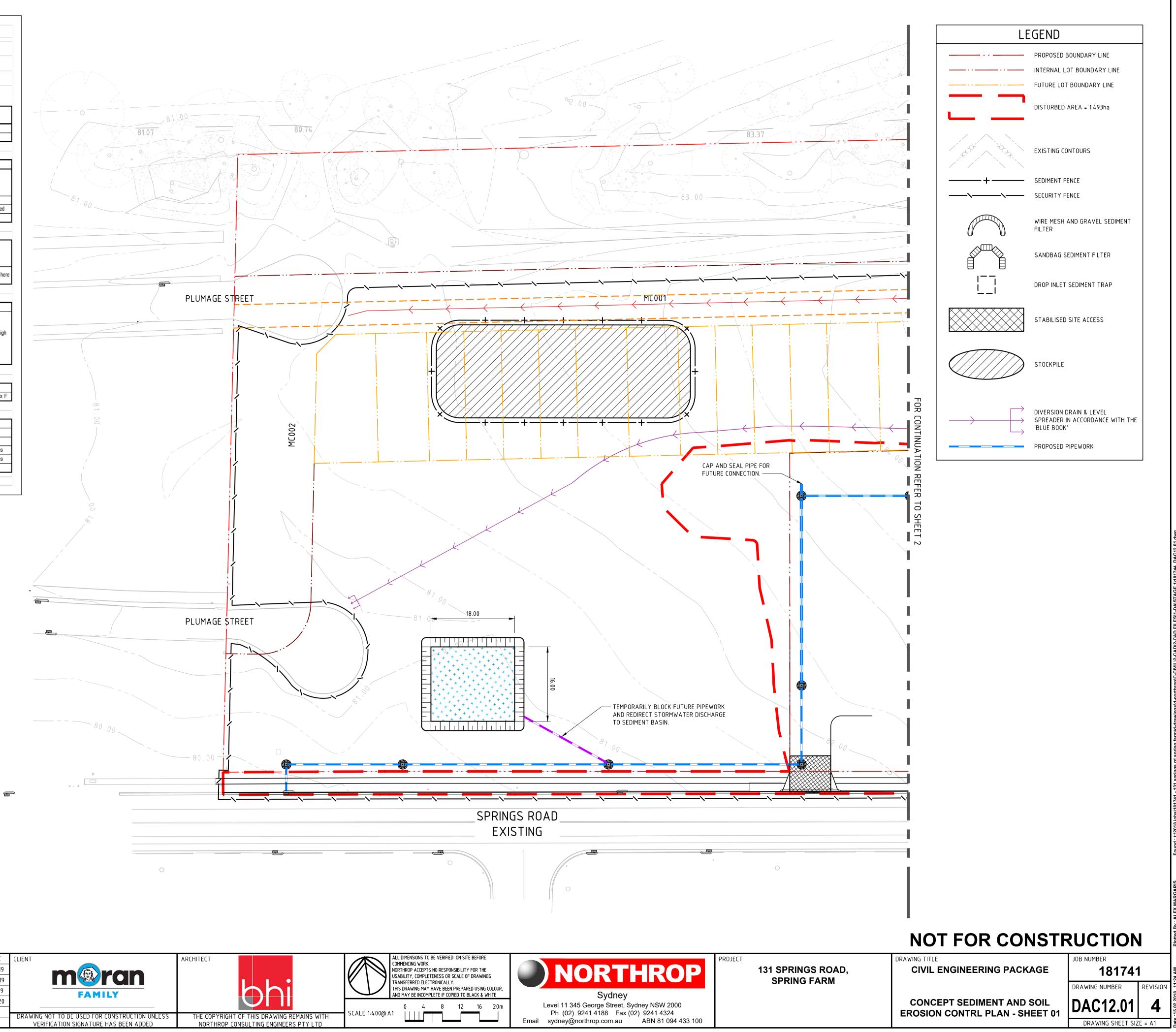


PROJECT NO 19055 DRAWING NO L301 SCALE NA

CLIENT MORAN HEALTH CARE GROUP REVISION B **DATE** 16.04.20

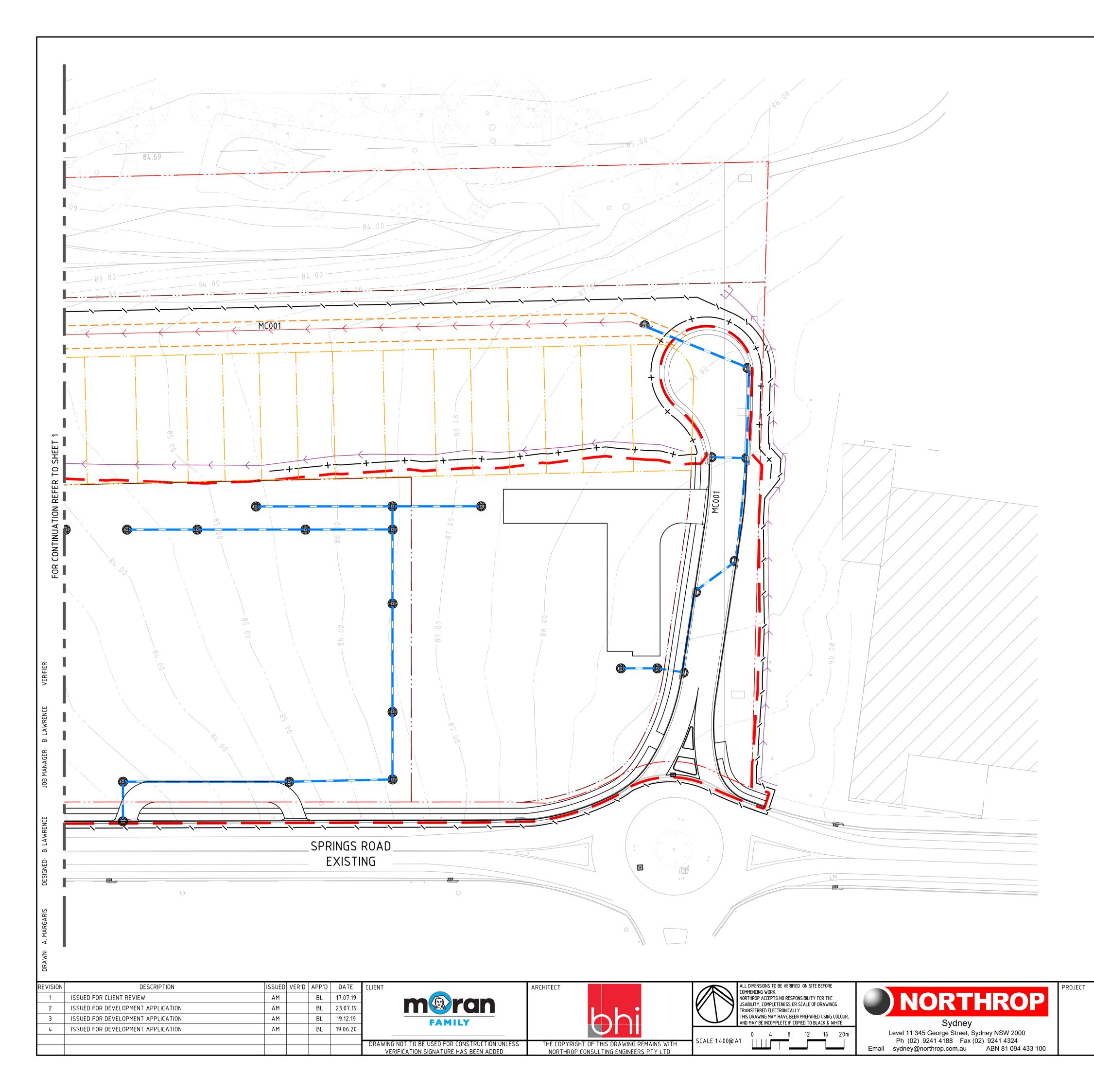
Site Name:	Spring	g Farm	- 131 \$	Spring	s Road		
Site Location:	Spring	g Farm	I				
Precinct/Stage:	Stage	1					
		•					
Other Details:	N/A						
	Sub-	catchm	ent or	Name	of Stru	cture	
Site area	1						Notes
Total catchment area (ha)	1.495						
Disturbed catchment area (ha)	1.495						
Soil analysis (enter sediment t	vne if	known	orlat	orator	v narti	cla siz	e data)
Sediment Type (C, F or D) if known:	D	KIIOWII			y paru		From Appendix C (if known)
% sand (fraction 0.02 to 2.00 mm)	0						
% silt (fraction 0.002 to 0.02 mm)							Enter the percentage of each soil
% clay (fraction finer than 0.002 mm)							fraction. E.g. enter 10 for 10%
Dispersion percentage							E.g. enter 10 for dispersion of 10%
% of whole soil dispersible							See Section 6.3.3(e). Auto-calculate
Soil Tex ture Group	D						Automatic calculation from above
Rainfall data							
Design rainfall depth (no of days)	5						See Section 6.3.4 and, particularly,
Design rainfall depth (percentile)	75						Table 6.3 on pages 6-24 and 6-25.
x -day , y -percentile rainfall ev ent (mm)	20.2						1.9
Rainfall R-factor (if known)							Only need to enter one or the other
IFD: 2-year, 6-hour storm (if known)	9.5						
RUSLE Factors							
Rainfall erosivity (<i>R</i> -factor)	2020						Auto-filled from abov e
Soil erodibility (K-factor)	0.038						
Slope length (m)	7.5						
Slope gradient (%)	33.33						RUSLE LS factor calculated for a hi
Length/gradient (LS -factor)	1.94						rill/interrill ratio.
Erosion control practice (P -factor)	1.3	1.3	1.3	1.3	1.3	1.3	
Ground cover (C-factor)	1	1	1	1	1	1	
Sediment Basin Design Criteria			-				
Storage (soil) zone design (no of months)	2	2	2	2	2	2	Minimum is generally 2 months
Cv (Volumetric runoff coefficient)	0.69						See Table F2, page F-4 in Appendix
Calculations and Type D/F Sed		Basin	Volum	es			
Soil loss (t/ha/y r)	194						
Soil Loss Class	2						See Table 4.2, page 4-13
Soil loss (m ³ /ha/yr)	149						Conversion to cubic metres
Sediment basin storage (soil) volume (m ³)	37						See Sections 6.3.4(i) for calculations
Sediment basin settling (water) volume (m ³)	208		1				See Sections 6.3.4(i) for calculations

SEDIMENT BASIN - CALCULATION SPREADSHEET

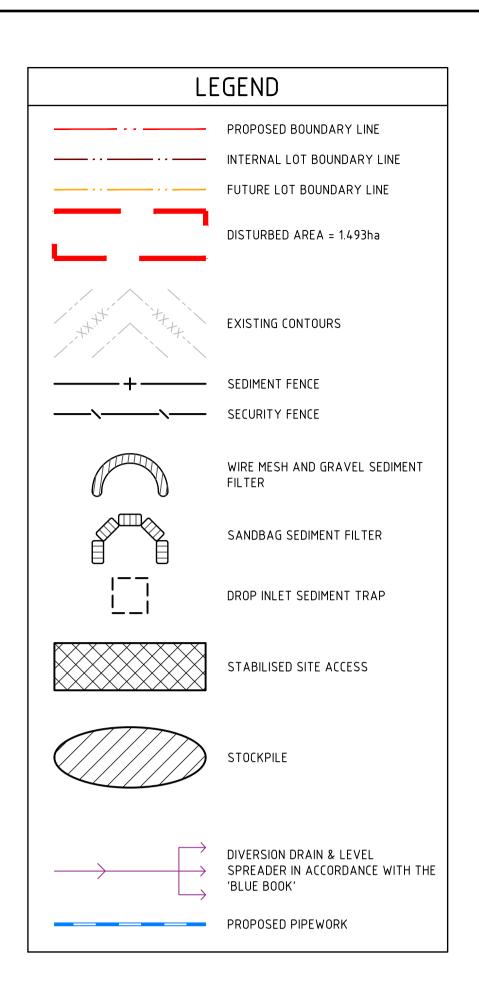


REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	23.07.19		
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19	FAMILY	
4	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20		
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131 SPRINGS ROAD, SPRING FARM



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DAC12.02

181741

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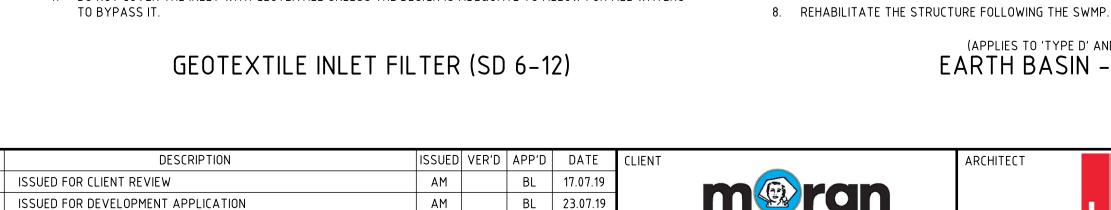
REVISION

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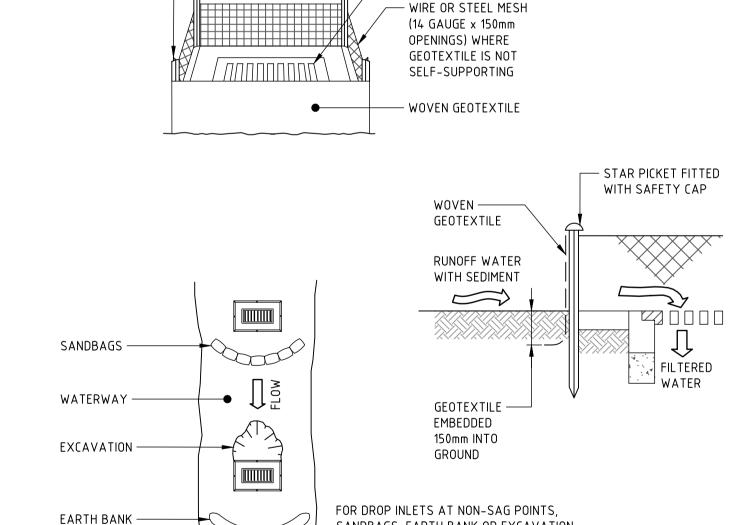
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CONCEPT SEDIMENT AND SOIL EROSION CONTRL PLAN - SHEET 02

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	23.07.19		1 1 •
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19	FAMILY	
4	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20		
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						VERIFICATION SIGNATURE HAS BEEN ADDED	NORTHROP CONSULTING ENGINEERS PTY LTD



- THE DRAWING. 4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS
- STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
- 3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN
- 2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE
- 1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
- CONSTRUCTION NOTES
- SANDBAGS, EARTH BANK OR EXCAVATION USED TO CREATE ARTIFICIAL SAG POINT



STOCKPILES (SD 4-1)

– DROP INLET WITH GRATE

- 4. OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10. 5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5–5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.
- WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP
- 2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.

1 METRE MAX.

EARTH BANK ——

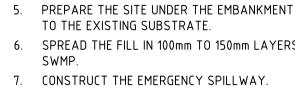
FLOW

STAR PICKETS –

CONSTRUCTION NOTES 1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.

STABILISE STOCKPILE SURFACE

SEDIMENT FENCE -



1.2m STAR PICKET

GROUND —

DRIVEN 600mm INTO

STRAW BALES TIGHTLY

ABUTTING TOGETHER. -

CONSTRUCTION NOTES

SITE.

20m MAX. IUNLESS

ON SWMP/ESCP)

ELOW

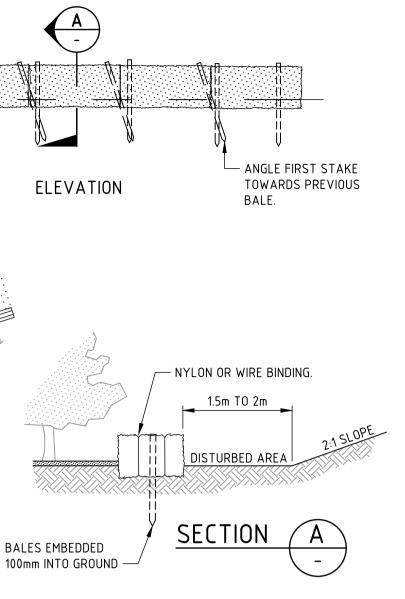
PLAN

STATED OTHERWISE

- 5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100mm TO HELP BOND COMPACTED FILL

- 3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.

- TO THE EXISTING SUBSTRATE. SWMP
- 4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL. 6. SPREAD THE FILL IN 100mm TO 150mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE



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

- 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 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 1.2 METRE 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 DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES
- ARE PLACED 1 TO 2 METRES 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.

STRAW BALE FILTER (SD 6-7)

SPILLWAY

SEDIMENT

→LENGTH→

INFLOW

LENGTH/WIDTH

RATIO 3:1 MIN. -

ORIGINAL GROUND

INFLOW

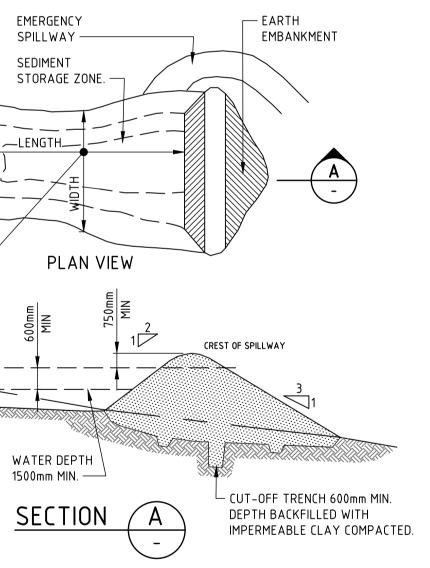
CONSTRUCTION NOTES

LEVEL. —

SEDIMENT

SEDIMENT STORAGE ZONE

SETTLING ZONE —



REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.

- 2. CONSTRUCT A CUT-OFF TRENCH 500mm DEEP AND 1200mm WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.

 - (APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY) EARTH BASIN - WET (SD 6-4)

2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE – WORK AROUND THEM.

- WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

NOTE: ONLY TO BE USED AS TEMPORARY BANK

- EARTH BANK LOW FLOW (SD 5-5)

3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER

4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED. 5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE. 6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.



131 SPRINGS ROAD, SPRING FARM

PROJECT

- STAR PICKETS AT MAX 2.5m CENTRES (UNLESS STATED OTHERWISE ON SWMP/ESCP) 20m MAX FLOW PLAN
- CONSTRUCTION NOTES

UNDISTURBED AREA

- 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 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE 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.

1.5m STAR PICKETS AT

DIRECTION

OF FLOW

MAX 2.5m CENTRES

DISTURBED.

AREA

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

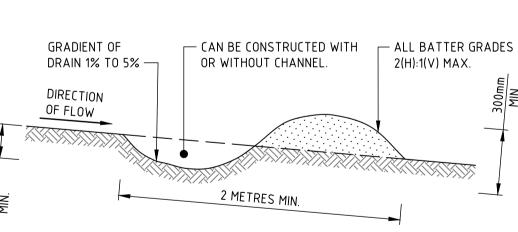
SEDIMENT FENCE (SD 6-8)

GRADIENT OF DRAIN 1% TO 5% — DIRECTION OF FLOW

CONSTRUCTION NOTES

FLOW.

1. BUILD WITH GRADIENTS BETWEEN 1 AND 5 PERCENT.



– 1.5m STAR PICKETS AT MAX 2.5m CENTRES

ON SOIL, 150mmx100mm

COMPACTED BACKFILL

SURFACE CONCRETE.

AND ON ROCK, SET INTO

- SELF-SUPPORTING

GEOTEXTILE

TRENCH WITH

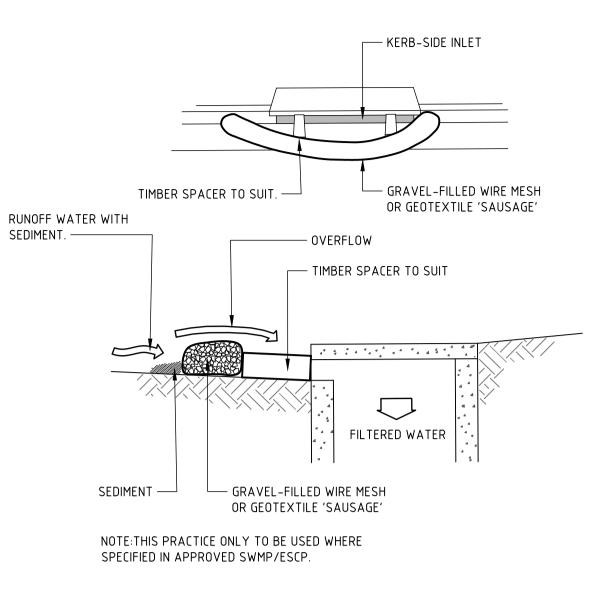
SECTION DETAIL

DIRECTION OF FLOW

- NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE

Ommencing Work.

L DIMENSIONS TO BE VERIFIED ON SITE BEFORE



CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.

2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.

3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.

4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.

5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.

6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH AND GRAVEL INLET FILTER (SD 6–11)

NOT FOR CONSTRUCTION

DRAWING TITLE CIVIL ENGINEERING PACKAGE

> SEDIMENT AND SOIL **EROSION CONTROL DETAILS**

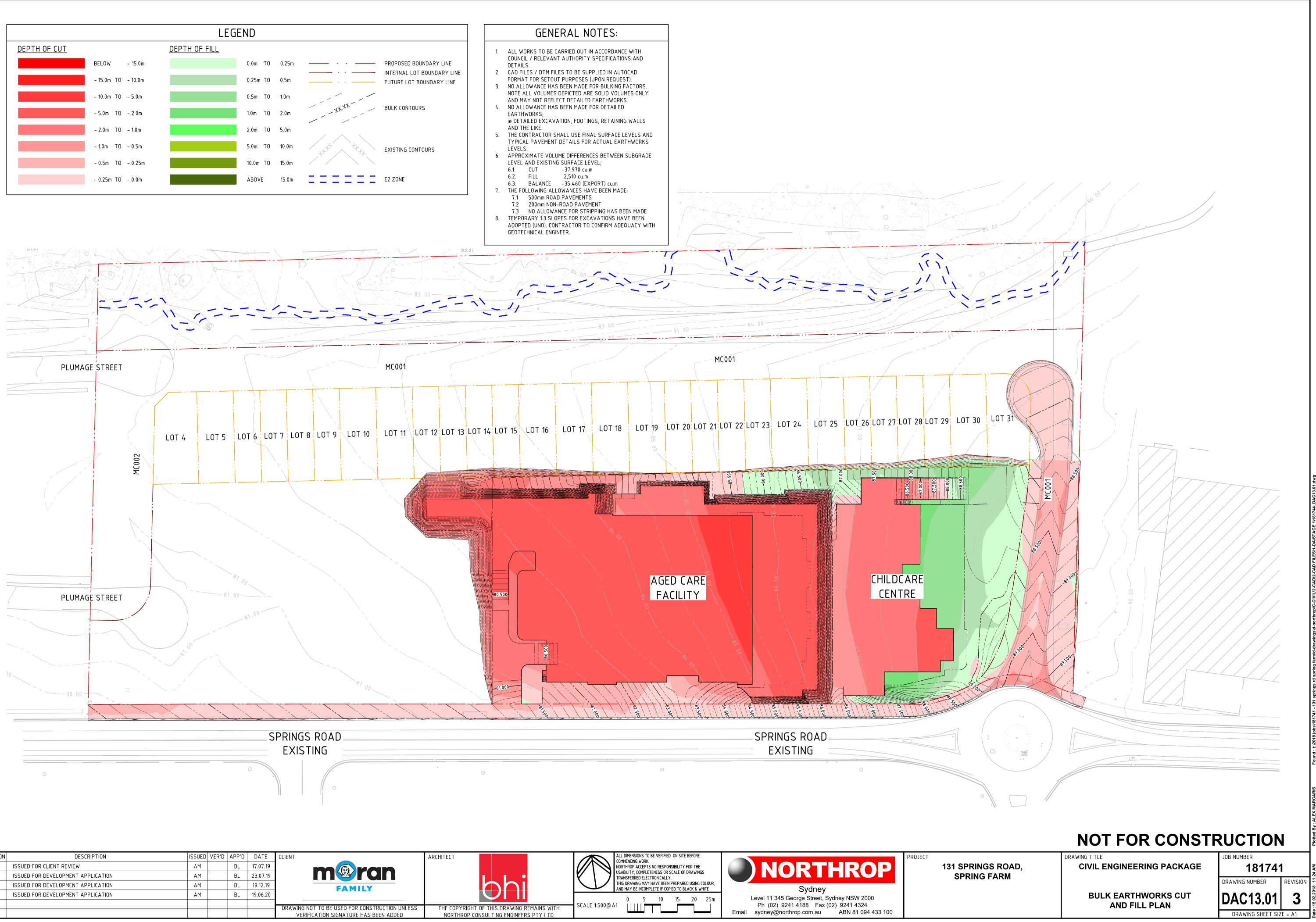
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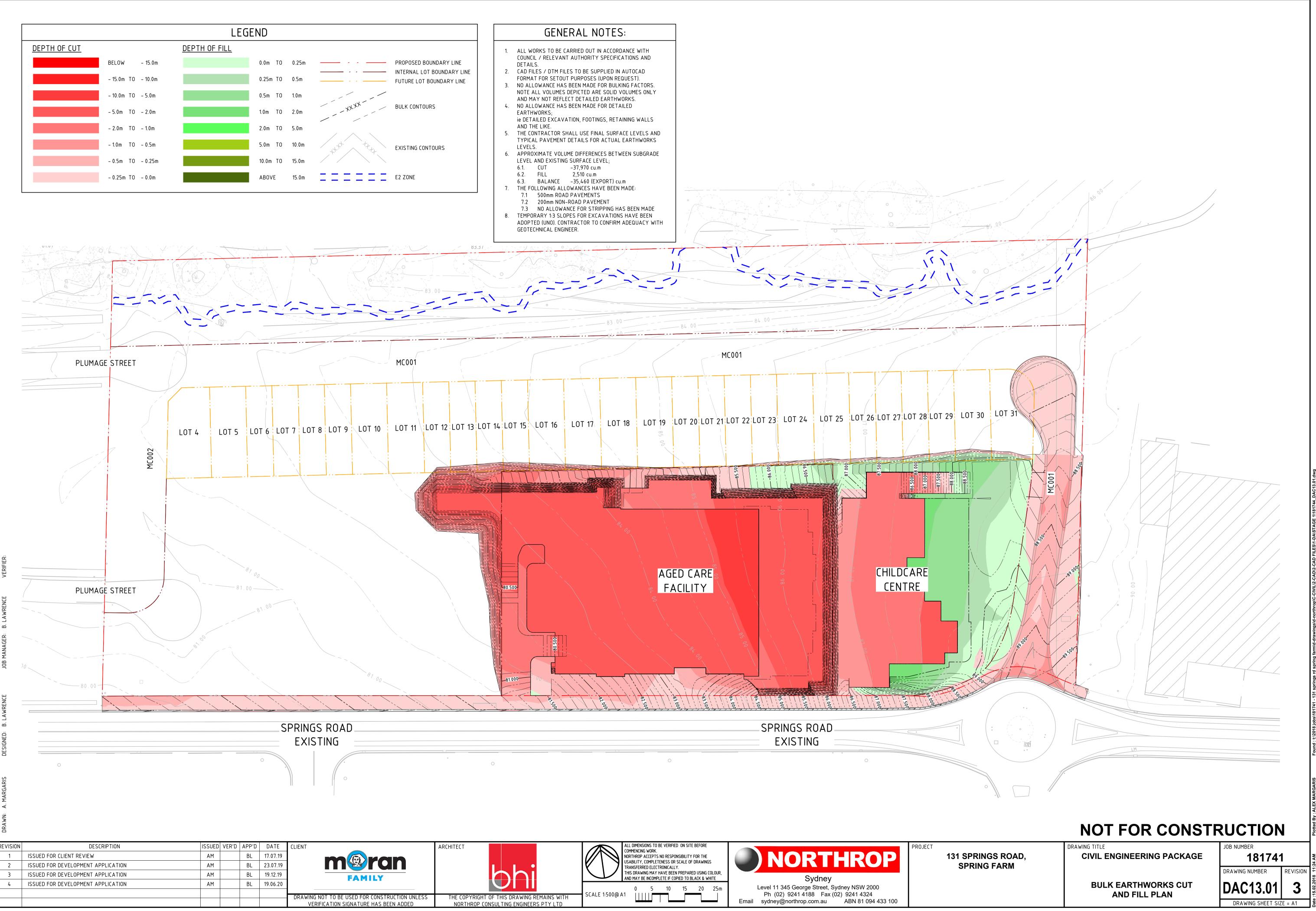
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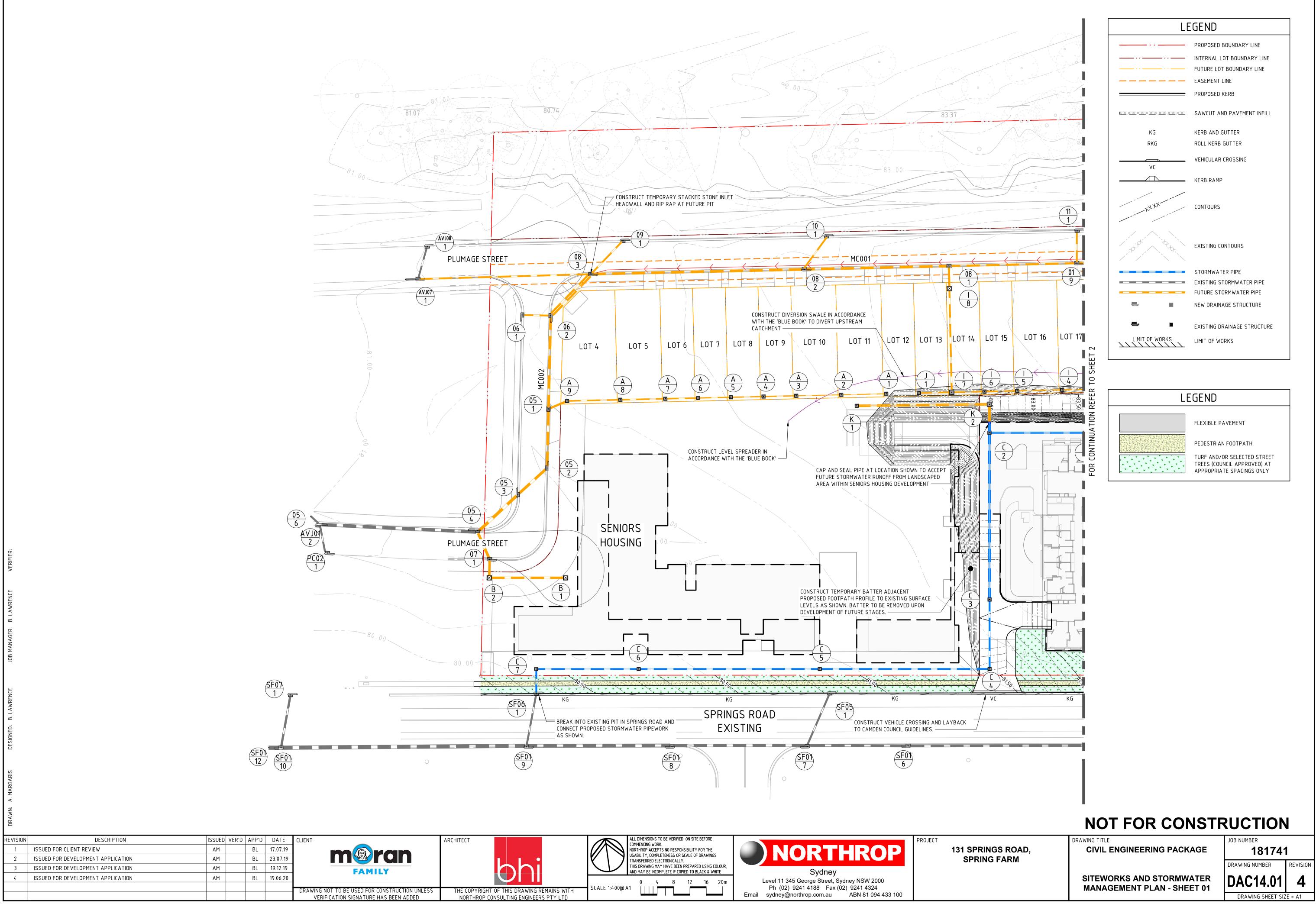
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JOB NUMBER

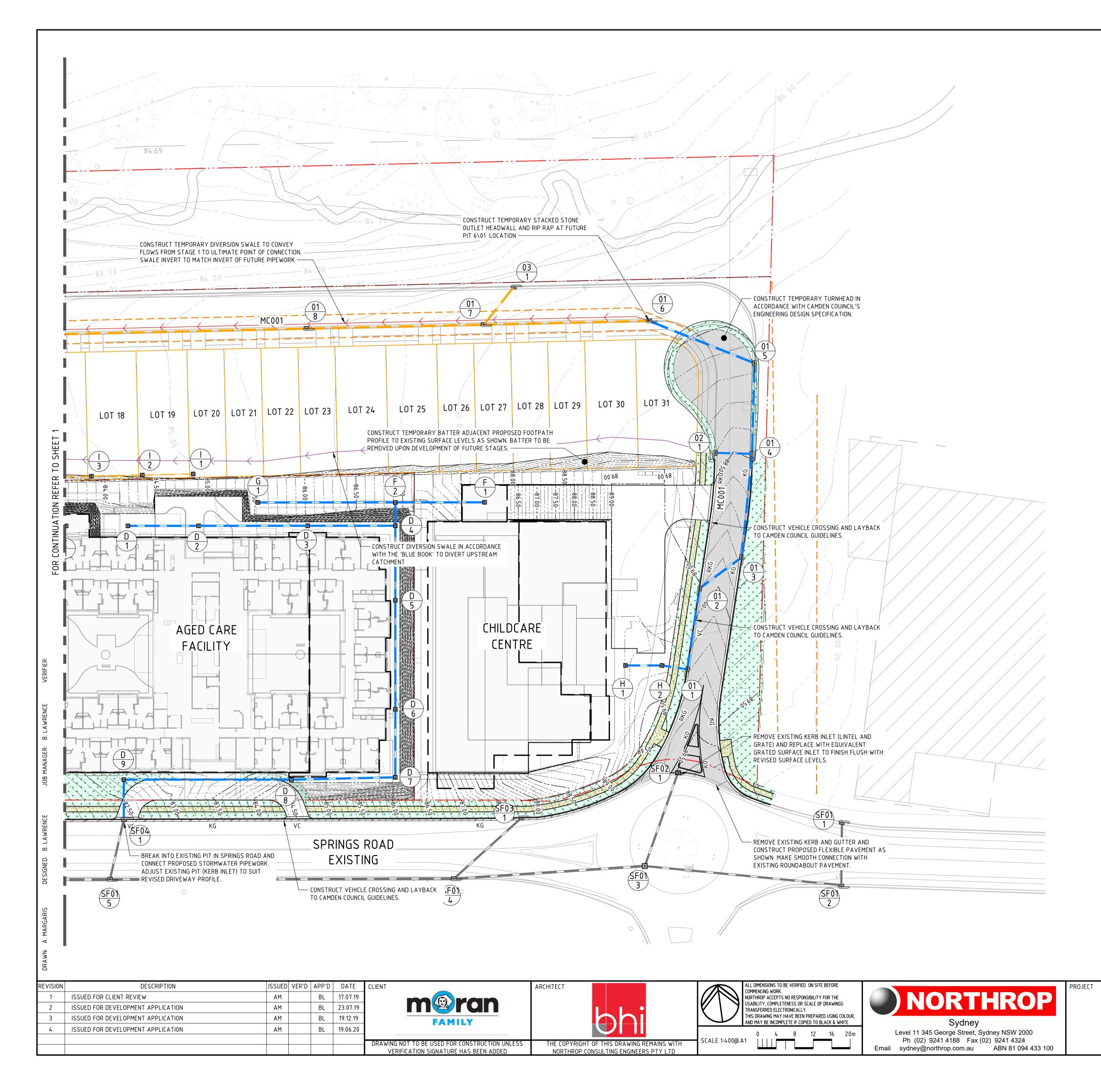
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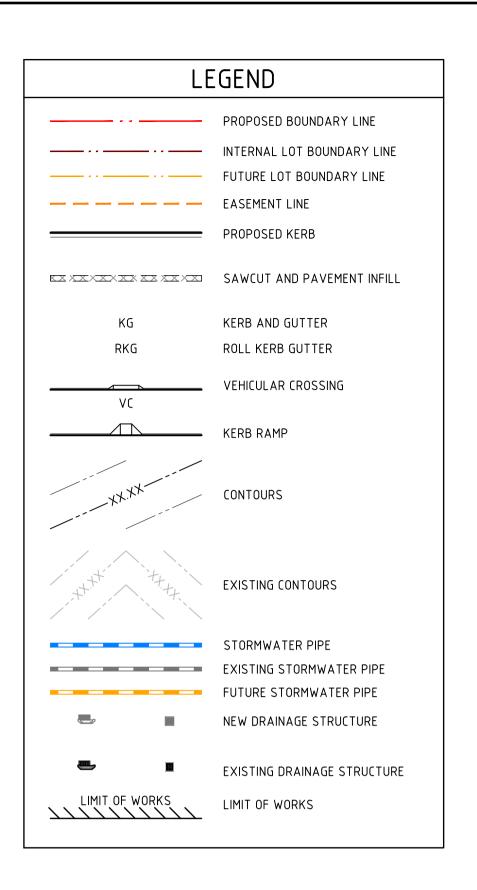


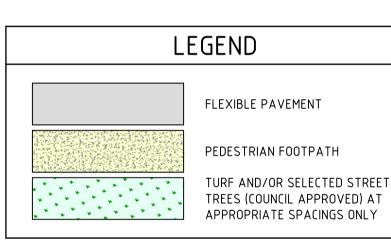


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131 SPRINGS ROAD, SPRING FARM





NOT FOR CONSTRUCTION

JOB NUMBER

DRAWING NUMBER

DAC14.02

181741

DRAWING SHEET SIZE = A1

REVISION

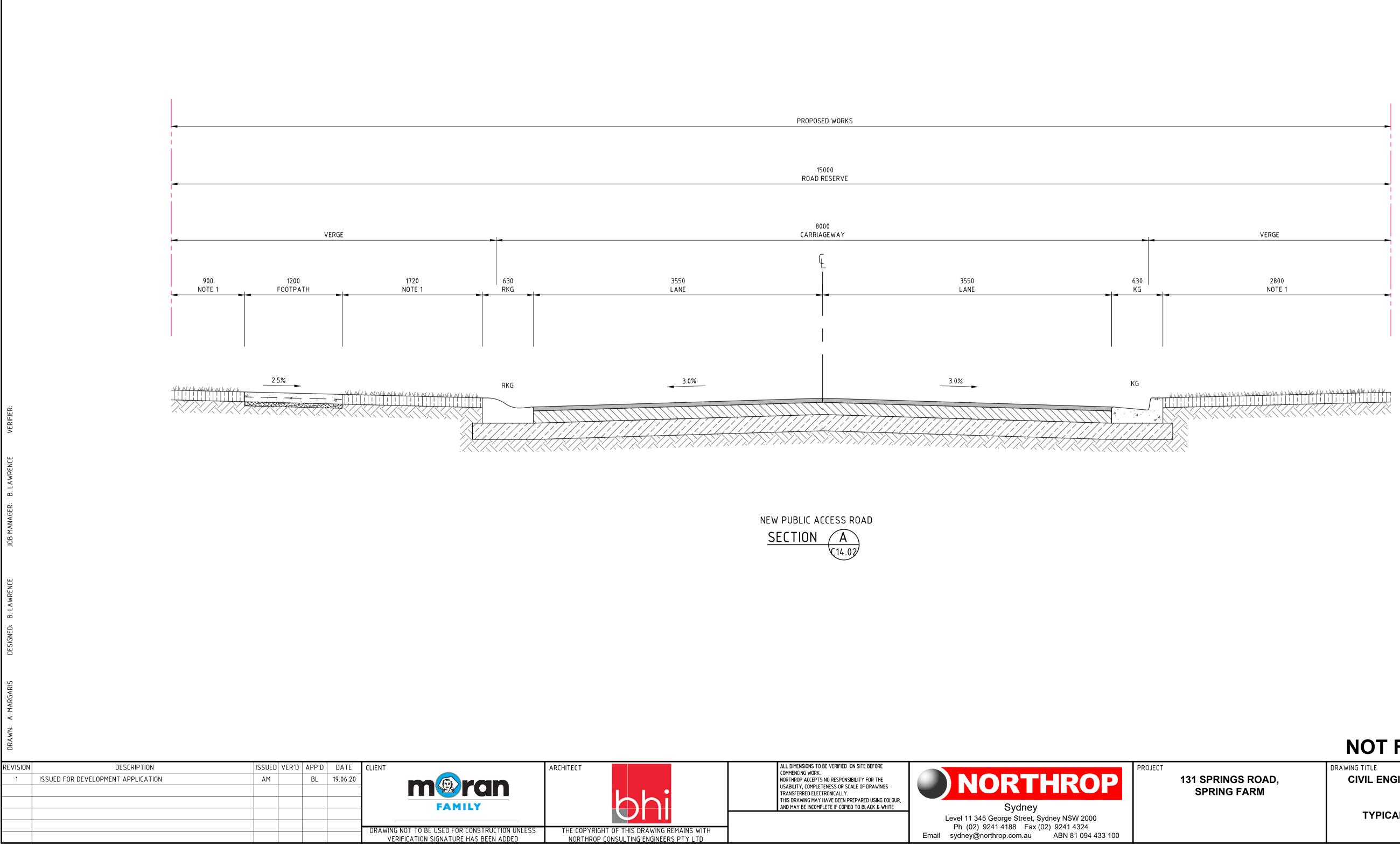
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DRAWING TITLE CIVIL ENGINEERING PACKAGE

SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 02

NOTES

1. TURF AND/OR SELECTED STREET TREES (COUNCIL APPROVED) AT APPROPRIATE SPACINGS ONLY



NOT FOR CONSTRUCTION JOB NUMBER

CIVIL ENGINEERING PACKAGE

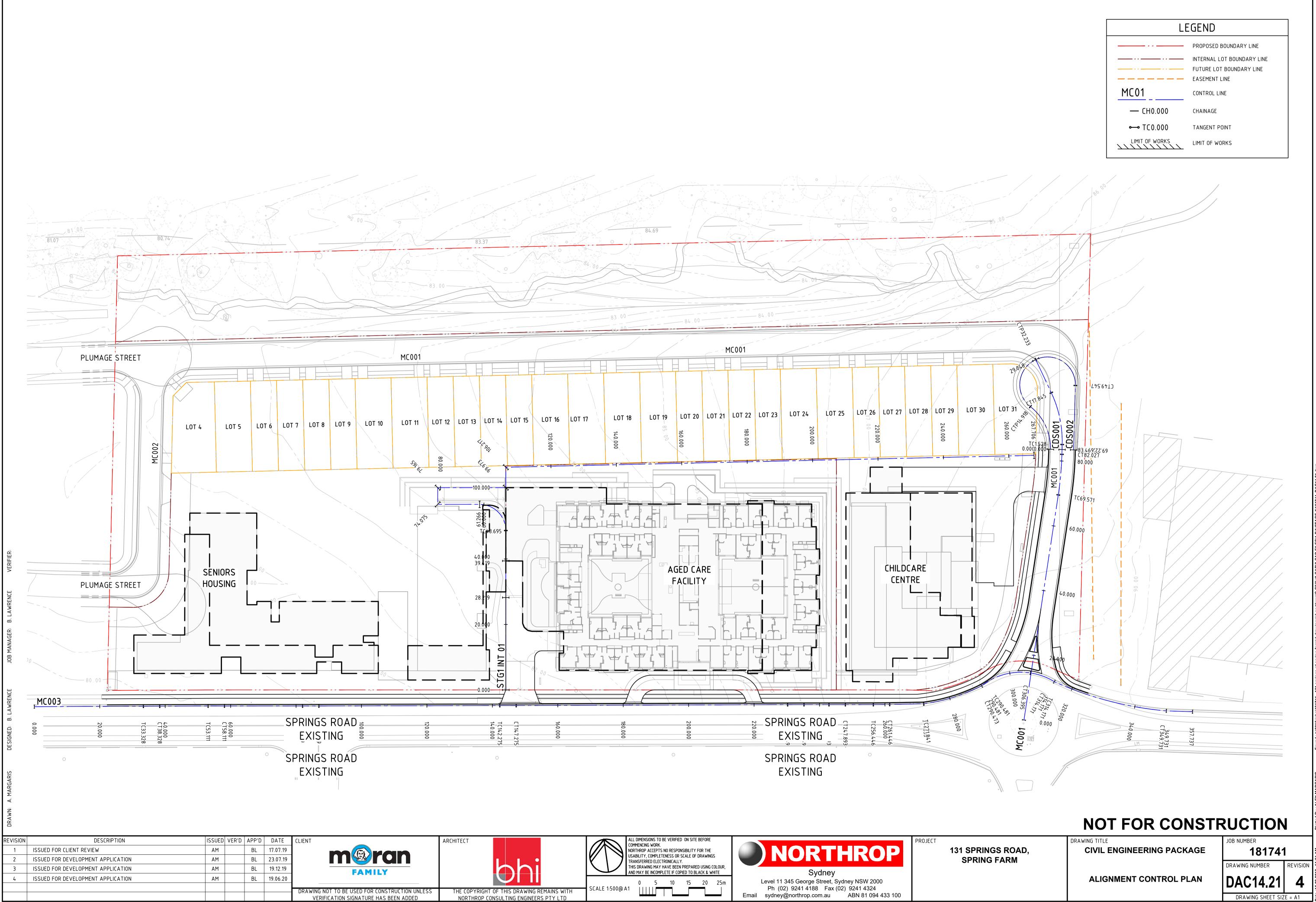
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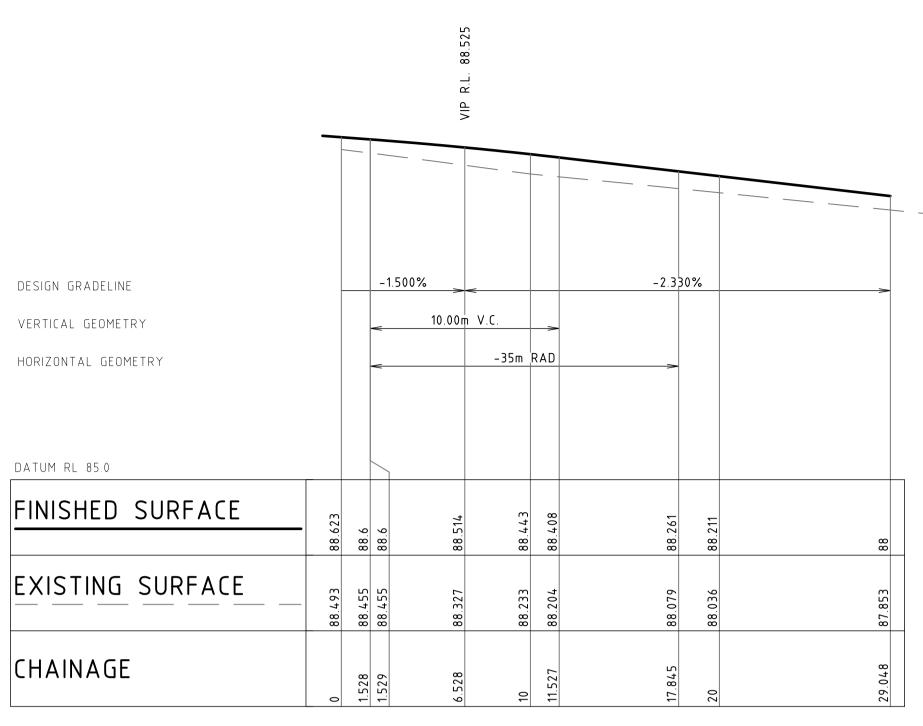
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181741

REVISION

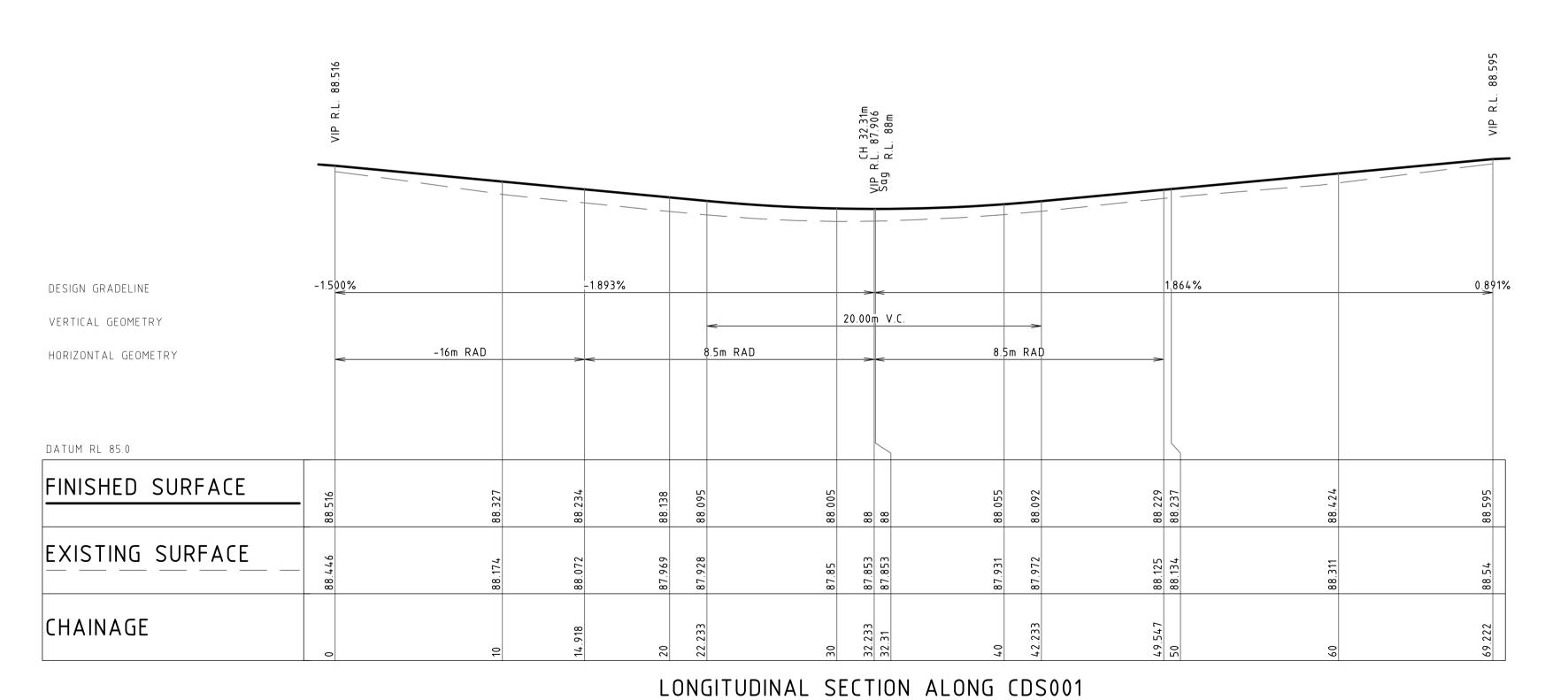
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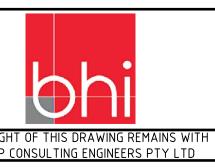


LONGITUDINAL SECTION ALONG CDS002

HORIZONTAL SCALE 1:2000A1 VERTICAL SCALE 1:40@A1



REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
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2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	23.07.19		
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19	FAMILY	
4	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20		
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	THE COPYRIGH NORTHROP C

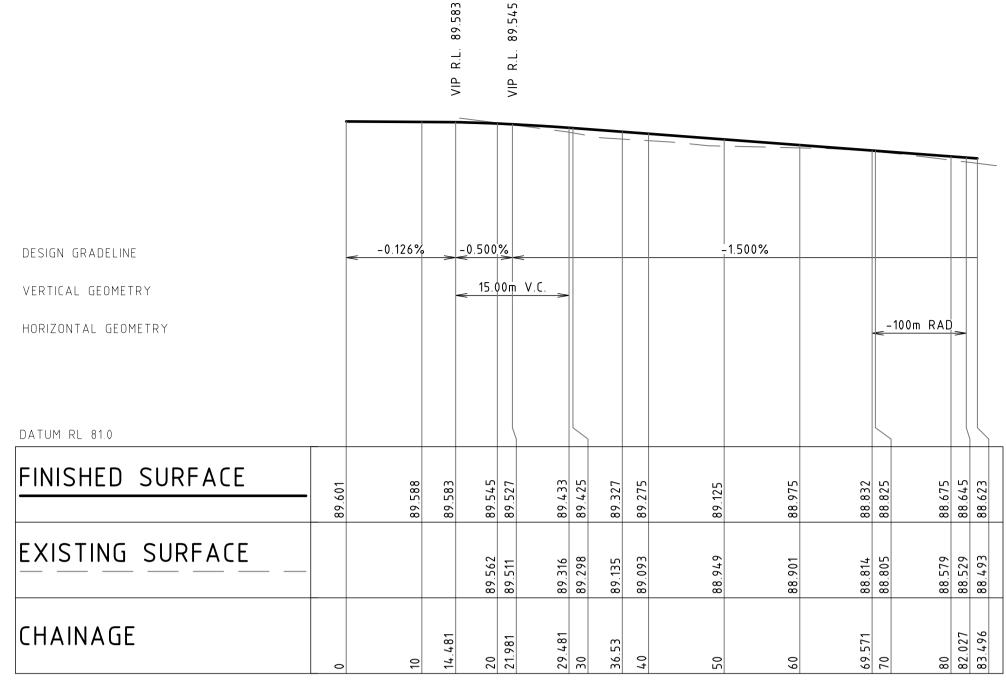






HORIZONTAL SCALE 1:200@A1 VERTICAL SCALE 1:40@A1

LONGITUDINAL SECTION ALONG MC001 HORIZONTAL SCALE 1:500@A1 VERTICAL SCALE 1:100@A1



NOT FOR CONSTRUCTION JOB NUMBER

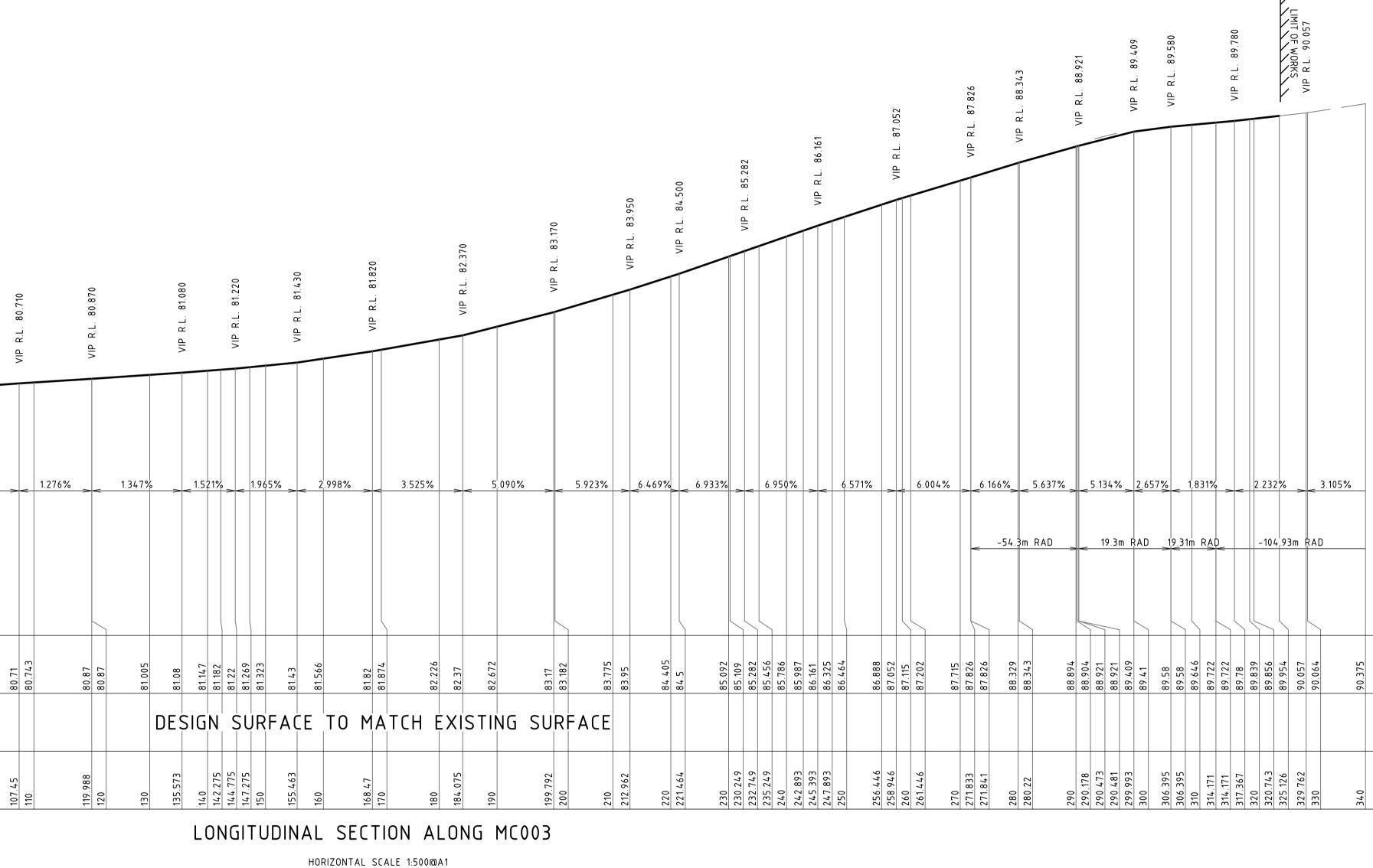
DRAWING TITLE CIVIL ENGINEERING PACKAGE

> LONGITUDINAL SECTIONS -SHEET 01

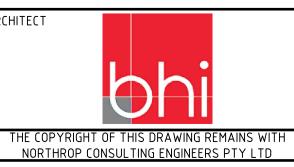
181741 DRAWING NUMBER REVISION DAC16.01 4 DRAWING SHEET SIZE = A1

			VIP R.I 79390	μ Μ		VIP R.L. 79.590			VIP R.L. 79.720		VIP R.L. 79.760			VIP R I 79963				VIP R.L. 80.201							
	DESIGN GRADELINE VERTICAL GEOMETRY HORIZONTAL GEOMETRY		1.147%	1.5	515%	>	1,50	66%	50.9	44	%	1.319%	%	>	<	1.407%		>	1.494	%	>	<		1.437%	
	FINISHED SURFACE	79.339	79.39	79.474	79.509	79.59	79.627	79.679	79.72 C.17.07	79.143	79.76	79.89	79.931	79.963	79.999	80.025	80.166	80.201	80.313	80.343	80.38	80.416	80.459	CV7 V0	600.00
B. LAWRENCE VERIFIER:	EXISTING SURFACE	10	14.441	20	22.299	27.642	30	33.328	35.944	20.220	40.181	50	53 111	55.611	58.111	09	70	72.495	80	81.979	84.479	86.979	06		2
JOB MANAGER: B.																									
DESIGNED: B. LAWRENCE																									
DRAWN: A. MARGARIS																									
REVISION 1 2 3 4	DESCRIPTION ISSUED FOR CLIENT REVIEW ISSUED FOR DEVELOPMENT APPLICATION ISSUED FOR DEVELOPMENT APPLICATION ISSUED FOR DEVELOPMENT APPLICATION				SUED AM AM AM AM	VER'	'D /	APP BL BL BL		17. 23. 19.	ATE 07.19 07.19 12.19 06.20	_ CLIEN 	WIN	G NO	ТТС	FA BE USED F	OR I		r STRUCTIC) N (ESS			PYRIGHT THROP CO

VERIFICATION SIGNATURE HAS BEEN ADDED



VERTICAL SCALE 1:10000A1



All dimensions to be verified on site before commencing work. COMMENLING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE



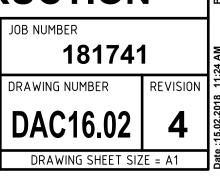


PROJECT

NOT FOR CONSTRUCTION

DRAWING TITLE CIVIL ENGINEERING PACKAGE

> LONGITUDINAL SECTIONS -SHEET 02



REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	23.07.19		
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19	FAMILY	
4	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20		
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLES VERIFICATION SIGNATURE HAS BEEN ADDED	S THE COPYRIGHT (NORTHROP CON

Centreline Data X = 290320.516 Y = 6227759.223 Z = 89.381	-3%		2%
DATUM RL 88.0			
FINISHED SURFACE	89.381	89.274 89.234 89.384 89.384	
EXISTING SURFACE	89.194	89.247 89.254 89.254 89.257	
OFFSET	0.000	3.550 4.000 4.030 4.180	
		CHAINAGE	32.971

DATUM RL 88.0					Ĺ								
FINISHED SURFACE	89.407	89.389	89.365	89.331	89.331	89.181	89.221	89.327		89 181	89.331	89.331	
EXISTING SURFACE	89.007	89.038	89.068	89.087	89.089	89.089	89.095	89.135		89 180	89.180	89.182	
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	0.000		000 t	4.030	4.180	
								C	HAINAGE 3	6.	5	30	

								CH	IAINAGE	40) . C)0	0		
Centreline Data X = 290321.528 Y = 6227762.635 Z = 89.327			2%	2%	₽			-3%	-3%			ſ		2%	
DATUM RL 88.0					L	L	_					L			
FINISHED SURFACE	89.407	89.389	89.365	89.331	89.331	89.181	89.221	89.327		89.221		89.331	89.331		
EXISTING SURFACE	89.007	89.038	89.068	89.087	89.089	89.089	89.095	89.135		89.175	89.180	89.180	89.182		

Centreline Data X = 290322.515 Y = 6227765.962 Z = 89.275			2%	2%	┍			-3%	-3%		ſ		2%
DATUM RL 88.0					L	L					L	\geq	
FINISHED SURFACE	89.355	89.337	89.313	89.279		89.129	89.169	89.275	80 160 160	89.129	89.279	89.279	
EXISTING SURFACE	88.976	89.007	89.026	89.046	89.047	89.048	89.053	89.093	۵۵ دد ۵۵		89.138	89.14.0	
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030		-3.550	0.000	0 5 7 7		4.030	4.180	
								I.		_	-		

Centreline Data X = 290325.358 Y = 6227775.549 Z = 89.125			2%	2%	-¶			-3%	-3%	, 				2%
DATUM RL 88.0					F	Ļ						L		
FINISHED SURFACE	89.205	89.187	89.163	89.129	89.129	88.979	89.019	89.125		89.019	88.979	89.129	89.129	
EXISTING SURFACE	88.889	88.910	88.921	88.929	88.930	88.930	88.932	88.949		88.965	88.968	88.968	88.968	
OFFSET	-8.000	-7.100	-5.900	-4,180	-4.030	-4.000	-3.550	0.000		3.550	4.000	4.030	4.180	
								СНА	INAGE	50.0	0	0		

CHAINAGE 60.000

X = 290328.202 Y = 6227785.136 Z = 88.975			2%	2%	F)			-3%	-3%		-67		
DATUM RL 88.0	1				L		_				L	_	
FINISHED SURFACE	89.055	89.037	89.013	88.979	88.979	88.829	88.869	88.975	0 7 8 8 8	88.829	88.979	88.979	89.076
EXISTING SURFACE	88.794	88.815	88.844	88.882	88.882	88.883	88.885	88.901	α Ο α	88.920	88.921	88.921	88.924
OFFSET	- 8.000	- 7.100	-5.900	-4.180	-4.030	-4.000	-3.550	00000	ט ע א	4.000	4.030	4.180	9.034

Centreline Data X = 290328.202



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CROSS SECTION ALONG MC001

NORTHROP Sydney

Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT

89.549	89.389	
89.380	89.389	
12.418	13.057	

Centreline Data X = 290331.044							C	HAMAUL	00.000				
Y = 6227794.724 Z = 88.825	1		2%	2%				-3%	-3%		r	2%	_
DATUM RL 88.0					L								
FINISHED SURFACE	88.905	88.887	88.863	88.829	88.829	88.679	88.719	88.825	88.719	88.679	88.829	88.829	00.701
EXISTING SURFACE	88.676	88.698	88.722	88.750	88.752	88.753	88.760	88.805	88.828	88.828	88.828	88.828	170.00
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	0.000	3.550	4.000	1 1	4.180	
	I												

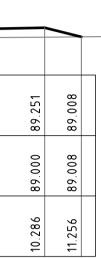
CHAINAGE 70.000

	-	2	7		6	6			ъ			6					
eline Data 90331.044 227794.724 8.825		-		2%	2%				-3%	-3%					2%		-
				1					HAINAGE	80,000							
SET		-8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	0.00.0		3.550	4.000	4.030	4.180	7 0 7 7	7.614	
STING SURF	ACE	88.470	88.482	88.4.98	88.522	88.524	88.524	88.531	88.579		88.622	88.625	88.625	88.626	88 64.7	88.646	
		8	8	8	8	00	00	œ	8		œ	œ	∞	8	α.		

							C		. 03.470					
Centreline Data X = 290333.362 Y = 6227804.447 Z = 88.675			_2%	2%				-3%	-1.36%		ſ		2%	
DATUM RL 87.0	_				L	L	_			\perp	L	\geq		
FINISHED SURFACE	88.755	88.737	88.713	88.679	88.679	88.529	88.569	88.675	88 627		88.737	88.737	88.793	88 61.6
EXISTING SURFACE	88.470	88.482	88.498	88.522	88.524	88.524	88.531	88.579	88 622	88.625	88.625	88.626	88.642	88 61.6
OFFSET	000	100	006	. 180	+.030	+.000	.550	000	550	000	030	180	022	611.

CHAINAGE 83,496

Centreline Data X = 290333.952 Y = 6227807.893 Z = 88.623			2%	2%				-3%	-0.76%				2%	
DATUM RL 87.0					L									
FINISHED SURFACE	88.703	88.685	88.661	88.626	88.626	88.476	88.516	88.623	88.595	പറ	70	88.705	88.762	88.571
EXISTING SURFACE	88.387	88.399	88.415	88.438	88.440	88.440	4	88.493	88.540		54	88.548	88.567	88.571
OFFSET	- 8.000	- 7.100	-5.900	-4.180	-4.030	-4.000	-3.550	0.000	3.550		· ·		7.000	7.765



89.213 89.220

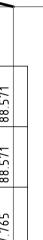
11.538 12.363

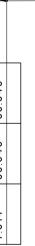
89

89.270 89.279

11.973 12.801

9.639 88.924 88.924







CIVIL ENGINEERING PACKAGE MASTER PLAN

CROSS SECTIONS - MC001 -SHEET 01

JOB NUMBER 181741 DRAWING NUMBER REVISION DAC16.11 4 DRAWING SHEET SIZE = A1

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	23.07.19		
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19	FAMILY	
4	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20		
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	THE COPYRIGHT NORTHROP COI

CHAINAGE 22.298

Centreline Data X = 290034.145 Y = 6227769.993 Z = 79.509			
DATUM RL 78.0		$ \leftarrow$	
FINISHED SURFACE	[79.469	20
EXISTING SURFACE		79.620	
OFFSET	-0.630	-0.450 -0.450	0.00.0

Centreline Data X = 290034.146 Y = 6227769.993 Z = 79.509			2%	2%			
DATUM RL 78.0	I				L	L	_
FINISHED SURFACE	79.704	79.677	79.653	79.619	79.619	79.469	79.509
EXISTING SURFACE	79.826	177.97	79.718	79.631	79.622	79.620	
OFFSET	-4.852	-3.502	-2.302	0.630	-0.480	-0.450	0.000

CHAINAGE 30.000

X = 290041.780 Y = 6227768.976 Z = 79.627		2%	2%	2%			
DATUM RL 79.0							
FINISHED SURFACE	79.821	79.794	79.770	757.97	79.737	79.587	79.627
EXISTING SURFACE	596.67	79.908	79.847	19.744	79.735	79.733	
OFFSET	-4.855	-3.505	-2.305	-0.630	-0.480	-0.450	0.000

CHAINAGE 40.000

2% 2%

80.058

80.057

80.034

80.035

30.085

14.9

00

2%

OFFSET	-4.888	-3.538	-2.338	-0.630	-0.480	-0.450	0.000
	CI	HAIN	AGE	50.0)0	0	
Centreline Data X = 290051.691 Y = 6227767.647 Z = 79.758		2%	%	2%			
DATUM RL 79.0							
FINISHED SURFACE	79.953	79.926	79.902	79.868	79.868	79.718	79.758
EXISTING SURFACE	80.067	80.011	79.961	79.878	79.869	79.867	
OFFSET	-4.867	-3.517	-2.317	-0.630	-0.480	-0.450	0.000
			· · · · ·				

Centreline Data X = 290061.601Y = 6227766.309

DATUM RL 79.0

Centreline Data

FINISHED SURFACE

EXISTING SURFACE

Z = 79.890

	Centreline Data X = 290111.140 Y = 6227759.534 Z = 80.603 DATUM RL 80.0
	FINISHED SURFACE
80.000 80.000 79.850 79.890	EXISTING SURFACE
80.007 80.004 80.004	OFFSET
-0.630 -0.480 -0.450 0.000	
0.000	Centreline Data X = 290101.231 Y = 6227760.878 Z = 80.459 DATUM RL 79.0
	FINISHED SURFACE
8 79.868 9 79.868 7 79.718 79.758	EXISTING SURFACE
79.878	OFFSET
-0.630 -0.480 0.000	
0.000 <u>*</u>	Centreline Data X = 290091.323 Y = 6227762.231 Z = 80.313 DATUM RL 79.0
79.737 79.737 79.587 79.627	FINISHED SURFACE

EXISTING SURFACE

FINISHED SURFACE

EXISTING SURFACE

FINISHED SURFACE

EXISTING SURFACE

OFFSET

Centreline Data X = 290081.416

Y = 6227763.595

DATUM RL 79.0

OFFSET

Centreline Data X = 290071.510 Y = 6227764.960

DATUM RL 79.0

OFFSET

Z = 80.025

Z = 80.166



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CROSS SECTION ALONG MC003

CHAINAGE 60.000

	2%	2%	2%				
80.221	80.194	80.170	80.135	80.135	79.985	80.025	
80.228	80.203	80.182	80.149	80.146	80.145		
-4.907	-3.557	-2.357	-0.630	-0.480	-0.450	0.000	

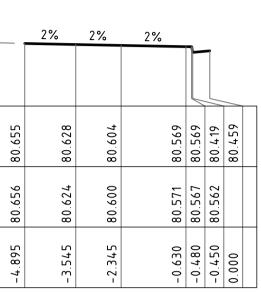
CHAINAGE 70.000

	2%	2%	2%					
			270					
80.361	80.334	80.310		80.276	80.276	80.126	80.166	
80.383	80.359	80.331		80.288	80.284	80.284	80.170	
-4.907	-3.557	-2.357		-0.630	-0.480	-0.450	0.000	

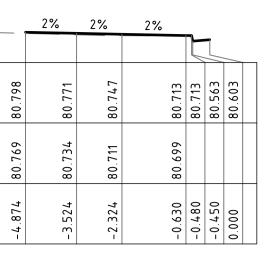
	2%	2%	2%					
80.509	80.482	80.458		80.423	80.423	80.273	80.313	
80.537	80.505	80.476		80.429	80.425	80.424	80.314	
-4.907	-3.557	-2.357		-0.630	-0.480	-0.450	0.000	

CHAINAGE 80.000

CHAINAGE	90.000



CHAINAGE 100.000



Centreline Data

X = 290160.687 Y = 6227752.822

DATUM RL 80.0

OFFSET

Centreline Data X = 290150.777 Y = 6227754.160

DATUM RL 80.0

OFFSET

Centreline Data X = 290140.868

Y = 6227755.503

DATUM RL 80.0

OFFSET

Centreline Data

X = 290130.959 Y = 6227756.847

DATUM RL 80.0

Z = 80.870

Z = 81.005

Z = 81.147

FINISHED SURFACE

EXISTING SURFACE

FINISHED SURFACE

EXISTING SURFACE

FINISHED SURFACE

EXISTING SURFACE

Z = 81.323

Centreline Data X = 290121.049	CI		AUL	120.		0		
Y = 6227758.191 Z = 80.743	•	2%	2%	2%	m_	_		
DATUM RL 80.0							_	
FINISHED SURFACE	80.937	80.910	80.886	80.853	80.853	80.703	80.743	
EXISTING SURFACE	80.928	80.898	80.871	80.830				
OFFSET	-4.852	-3.502	-2.302	-0.630	-0.480	-0.450	0.000	

FINISHED SURFACE	81.064	81.037	81.013	80.980	80.980	80.830	80.870	
EXISTING SURFACE	81.075	81.032	81.000	80.970				
OFFSET	-4.831	-3.481	-2.281	-0.630	-0.480	-0.450	0.000	
Centreline Data X = 290121.049	CH	IAIN.	AGE	120.	00)0		

CHAINAGE 110.000

Sydney

Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100

Centreline Data X = 290180.509 Y = 6227750.157 Z = 81.874 DATUM RL 81.0	
FINISHED	SURFAC
EXISTING	SURFAC
OFFSET	
Centreline Data X = 290170.598 Y = 6227751.489	

PROJECT

X = Y =	reline Data 290180.509 6227750.157 81.874	

OFFSET
Centreline Data X = 290180-509

DATUM RL 81.0	
FINISHED	SURFACI
EXISTING	SURFAC

Ce	nt	reline Data	
X	=	290190.420	
Y	=	6227748.824	
Ζ	=	82.226	

Ce	nt	reline Data
Х	=	290190.420
Y	=	6227748.824
7	_	82 226

Сe	ent	reline Data
Х	Ξ	290190.420
Y	=	6227748.824
7	_	82 226

011021
Centreline Data
X = 290190.420

EXISTING	SURFAC
OFFSET	

Centreline Data X = 290200.331 Y = 6227747.491 Z = 82.672
DATUM RL 82.0

	2%_	2%	2%				
						-	
81.515	81.488	81.464	81.433	81.433	81.283 81.323		
81.604	81.542	81.494	81.434	81.421	81.415		
-4.762	-3.412	-2.212	-0.630	-0.480	-0.450 0.000		

.257 .257 .107 .147

81.8

-0.630 -0.480 -0.450 0.000

.115 .115 .965 .005

81. 81. 81.

-0.630 -0.480 -0.450 0.000

104

<u>8</u>

81.150 81.138

CHAINAGE 150.000

2% 2% 2%

81.290

81.272

-2.239

CHAINAGE 140.000

81.148

143

81.

-2.260

CHAINAGE 130.000

2% 2% 2%

2%

81.314

81.325

-3.439

2% 2%

81.172

81.178

-3.460

81.341

81.396

-4.789

81.199

81.216

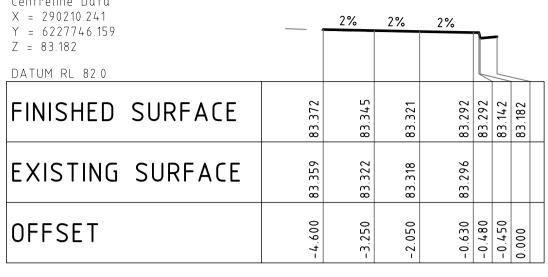
-4.810

Centreline Dato X = 290210.241 Y = 6227746.15 Z = 83.182				
Y = 6227746.15	Ce	ent	reline	Dato
	Х	=	29021	0.241
Z = 83.182	Y	Ξ	62277	46.15
	Ζ	=	83.182	

OFFSET

FINISHED SURFACE

DATUM RL 82.0



CHAINAGE 200.000

Y = 6227747.491 Z = 82.672		2%	2%	2%		_	
DATUM RL 82.0					Ĺ		
FINISHED SURFACE	82.862	82.835	82.811	82.782	82.782	2.63	82.672
EXISTING SURFACE	82.887	82.855	82.825	82.790			
OFFSET	-4.632	-3.282	-2.082	-0.630	-0.480	-0.450	0.000

CHAINAGE 190.000

		2%	2%	2%				
ΞE	82.417	82.390	82.366	82.336	82.336	82.186	82.226	
CE	82.503	82.449	82.408	82.363				
	-4.665	-3.315	-2.115	-0.630	-0.480	-0.450	0.000	

CHAINAGE 180.000

Participan Participan Participan 17 82.032 82.065 17 82.032 82.038 17 82.034 82.014 17 82.034 82.014 18 81.984 19 81.984 18 81.984 18 81.874			_2%	2%	2%	_		
A 2.034 32.136 32.034 32.034 32.037 36 32.037 36 37 36 37 37 36 37 37 37 37 37 37 37 37 37 37 37 37 37								
	RFACE	82.065	82.038	82.014	81.984	81.984 81.834	81.874	
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	RFACE	82.136	82.082	82.034	81.978			
-4.65 -3.34 -2.14 -0.63 0.000		-4.697	-3.347	-2.147	-0.630	-0.480 -0.450	0.000	

CHAINAGE 170.000

Y = 6227751.489 Z = 81.566		2%	2%	2%				
DATUM RL 81.0					Ĺ		_	_
FINISHED SURFACE	81.758	81.731	81.707	81.676	81.676	81.526	81.566	
EXISTING SURFACE	81.837	81.778	81.732	81.673				
OFFSET	-4.729	-3.379	-2.179	-0.630	-0.480	-0.450	0.000	

CHAINAGE 160.000

DRAWING TITLE

NOT FOR CONSTRUCTION

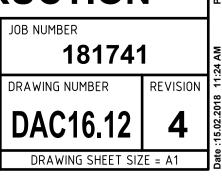
CIVIL ENGINEERING PACKAGE

MASTER PLAN

CROSS SECTIONS - MC003 -

SHEET 02





ā							
REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	23.07.19		
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19	FAMILY	
4	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20		
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS	THE COPYRIGHT
						VERIFICATION SIGNATURE HAS BEEN ADDED	NORTHROP CO

Centreline Data	CH	AINA	GE	220	0	0()
X = 290220.152 Y = 6227744.826 Z = 83.775		2%	2%	2%	n	7	
DATUM RL 83.0					L		_
FINISHED SURFACE	83.963	83.936	83.912	83.885	83.885	83.735	83.775
EXISTING SURFACE	83.940	83.892	83.867	83.876			
OFFSET	-4.568	-3.218	-2.018	-0.630	-0.480	-0.450	0.000

- 1	T I	- 2	-	1	7	ō	
спν			10	$\wedge $			

LHAINAGE 210.000

290220.152 6227744.826 83.775	1	2%	2%	2%	n	-	
UM RL 83.0					L		_
NISHED SURFACE	83.963	83.936	83.912	83.885	83.885	83.735	
SURFACE	83.940	83.892	83.867	83.876			
FSET	4.568	3.218	-2.018	-0.630	0.480	-0.450	

CHAINAGE	220.00

Centreline Data X = 290230.063 Y = 6227743.493 Z = 84.405		2%	2%	2%	\mathbb{P}	1		
DATUM RL 83.0					L			
FINISHED SURFACE	84.593	84.566	84.542	84.515	84.515	84.365	84.405	
EXISTING SURFACE	84.637	84.596	84.560	84.519	84.514			
OFFSET	-4.535	-3.185	-1.985	-0.630	-0.480	-0.450	0.000	

CHAINAGE 230.000

Centreline Data X = 290239.974 Y = 6227742.161 Z = 85.092		2%	2%	2%	╔	1		
DATUM RL 84.0					L			
FINISHED SURFACE	85.279	85.252	85.228	85.202	85.202	85.052	85.092	
EXISTING SURFACE	85.267	85.246	85.228	85.207	85.205			
OFFSET	-4.503	-3.153	-1.953	-0.630	-0.480	-0.450	0.000	

CHAINAGE 240.000

Centreline Data X = 290249.881 Y = 6227740.802 Z = 85.786 DATUM RL 84.0		2%	2%	2%				
FINISHED SURFACE	85.974	85.947	85.923	85.896	85.896	85.74.6	85.786	
EXISTING SURFACE	85.974	85.947	85.923	85.901				
OFFSET	-4.497	-3.14.7	-1.947	-0.630	-0.480	-0.450	0.000	

CHAINAGE 250.000

Centreline Data X = 290259.788 Y = 6227739.443 Z = 86.464		2%	2%	2%] -	1	
DATUM RL 85.0					L	L	
FINISHED SURFACE	86.651	86.624	86.600	86.574	86.574	86.424	86.464
EXISTING SURFACE	86.574	86.555	86.553	86.574			
OFFSET	-4.491	-3.141	-1.941	-0.630	-0.480	-0.450	0.000

EXISTING SURFACE		89.951	89.958	89.974	89.959				
OFFSET		-3.450	-2.950	-1.750	-0.630	-0.480	-0.450	0.000	
Centreline Data X = 290299.472 Y = 6227739.630	С	HAI 2%	N	AGE 2%	E 32	0	.7		3
Z = 88.904 DATUM RL 88.0									
FINISHED SURFACE	89.090		89.063	89.039	89.014	89.014	88.864	88.904	
EXISTING SURFACE	88.902		88.938	88.970	89.005				
OFFSET	-4.450		-3.100	-1.900	-0.630	-0.480	-0.450	0.000	
	СН	AIN	A	GE	290	.1	78	3	
Centreline Data X = 290289.591 Y = 6227737.258 Z = 88.329		2%		2%	2%		1		

Z = 89.856 DATUM RL 89.0

DATUM RL 87.0

OFFSET

Centreline Data X = 290279.629

Y = 6227736.930

Z = 87.715

FINISHED SURFACE

EXISTING SURFACE

Centreline Data X = 290327.607 Y = 6227734.634 FINISHED SURFACE

DATUM RL 87.0	
FINISHED SURFACE	87.899
EXISTING SURFACE	87.825
OFFSET	-4.293
	CHA

450

entreline Data (= 290269.700 (= 6227738.115 = 87.115	_ =	
ATUM RL 86.0		
INISHED SURFACE	87.302	
EXISTING SURFACE	87.217	
DFFSET	4.454	

C



All dimensions to be verified on site before commencing work. COMMENLING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE



CHAINAGE 325.126

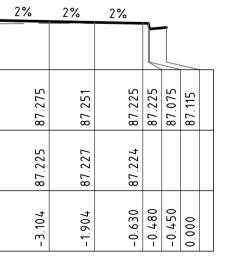
131 SPRINGS ROAD, SPRING FARM

PROJECT

CROSS SECTION ALONG MC003

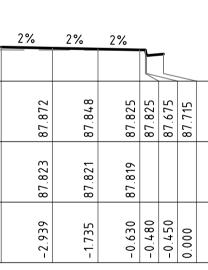
Centreline Data

CHAINAGE 260.000



X = 290331.498 Y = 6227732.619 Z = 89.954				2%	2%	n -	7		
DATUM RL 89.0						Ĺ		_	
FINISHED SURFACE	90.075	90.120	90.110	90.086	90.064	90.064	89.914	89.954	
EXISTING SURFACE	90.075	90.078	90.088	90.069					
OFFSET	-3.631	-3.450	-2.950	-1.750	-0.630	-0.480	-0.450	0.000	
	1		1	1	1		1	0	

AINAGE 270.000



CHAINAGE 280.000

2%	2%	2%				
			6	5		
88.489	88.465	88.439	88.439	88.289	88.329	
88.451	88.445	88.439				
-3.100	-1.900	-0.630	-0.480	-0.450	0.000	

		2%	2%				
90.022	90.012	89.988	89.966	89.966	89.816	89.856	
89.951	89.958	89.974	89.959				
-3.450	-2.950	-1.750	-0.630	-0.480	-0.450	0.000	

NOT FOR CONSTRUCTION JOB NUMBER

DRAWING TITLE CIVIL ENGINEERING PACKAGE MASTER PLAN

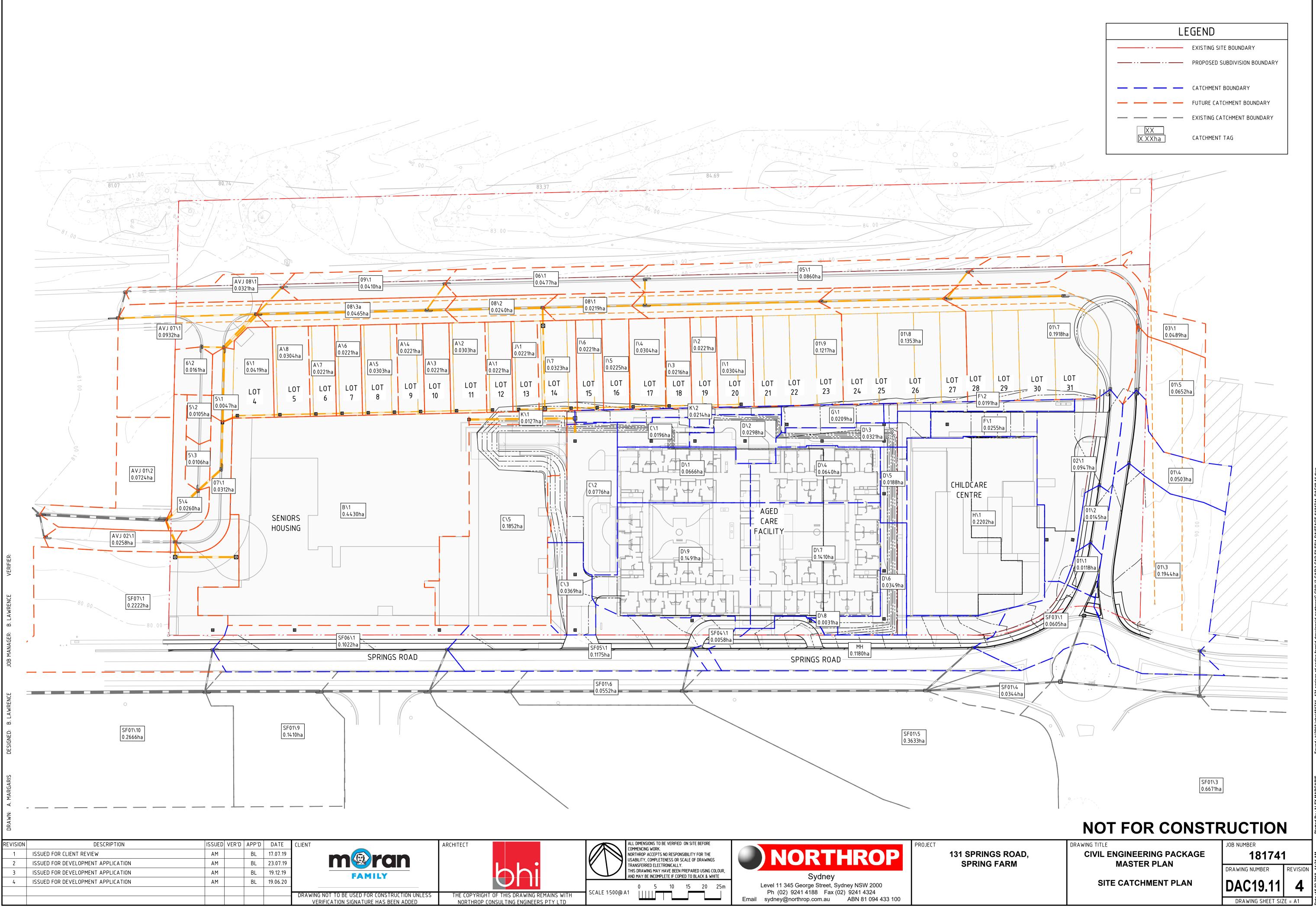
CROSS SECTIONS - MC003 -SHEET 03

DAC16.13 4 DRAWING SHEET SIZE = A1

181741

REVISION

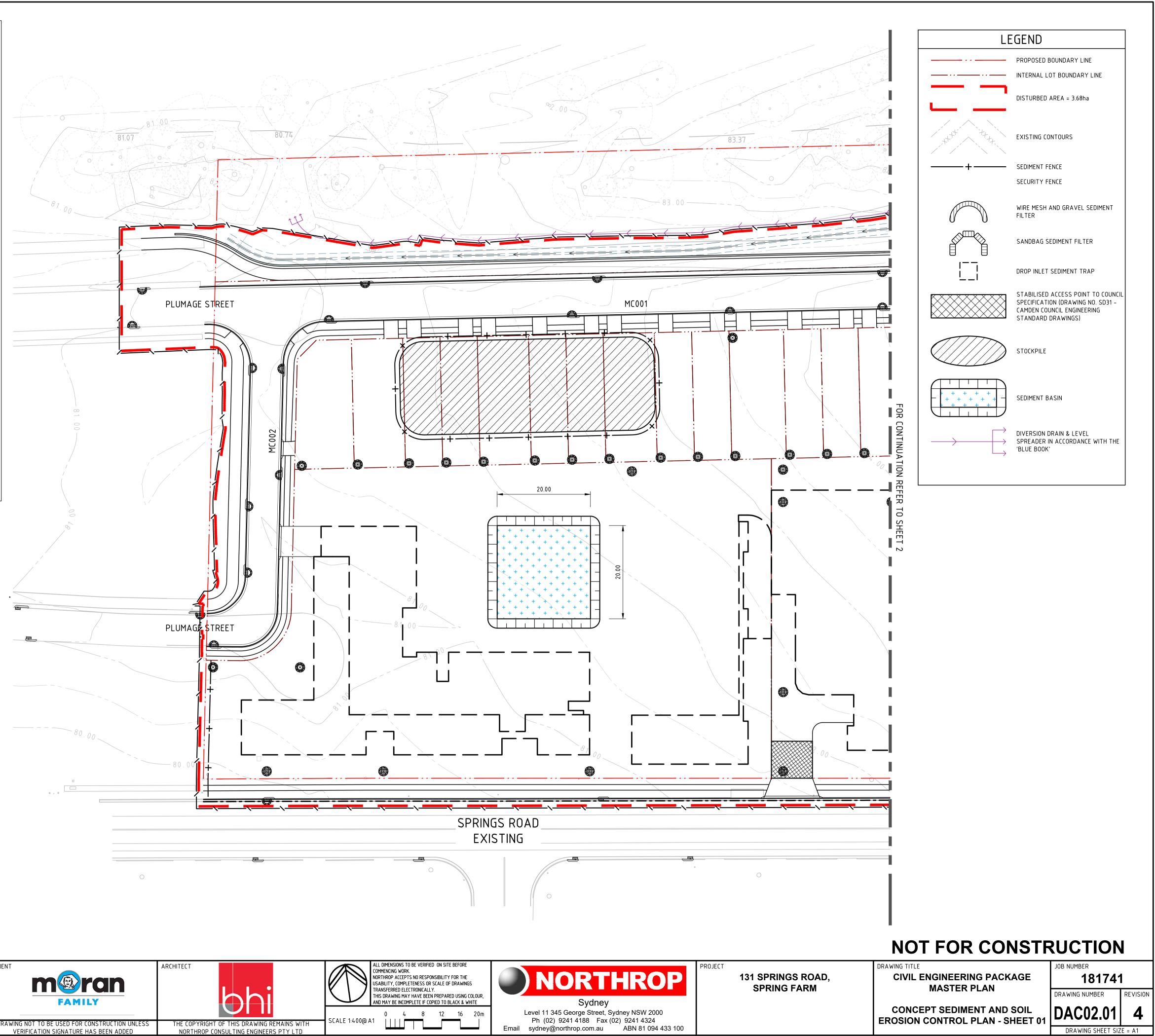
DRAWING NUMBER



.2018 11:24 AM Plotted By : ALEX MARGARIS Found : t:\2018 jobs\181741 - 131 springs rd spring farm\d-drawings\d-northrop\C-CIVIL\2-CAD\2-CAD FILES\1-DA\STAGE 1\18

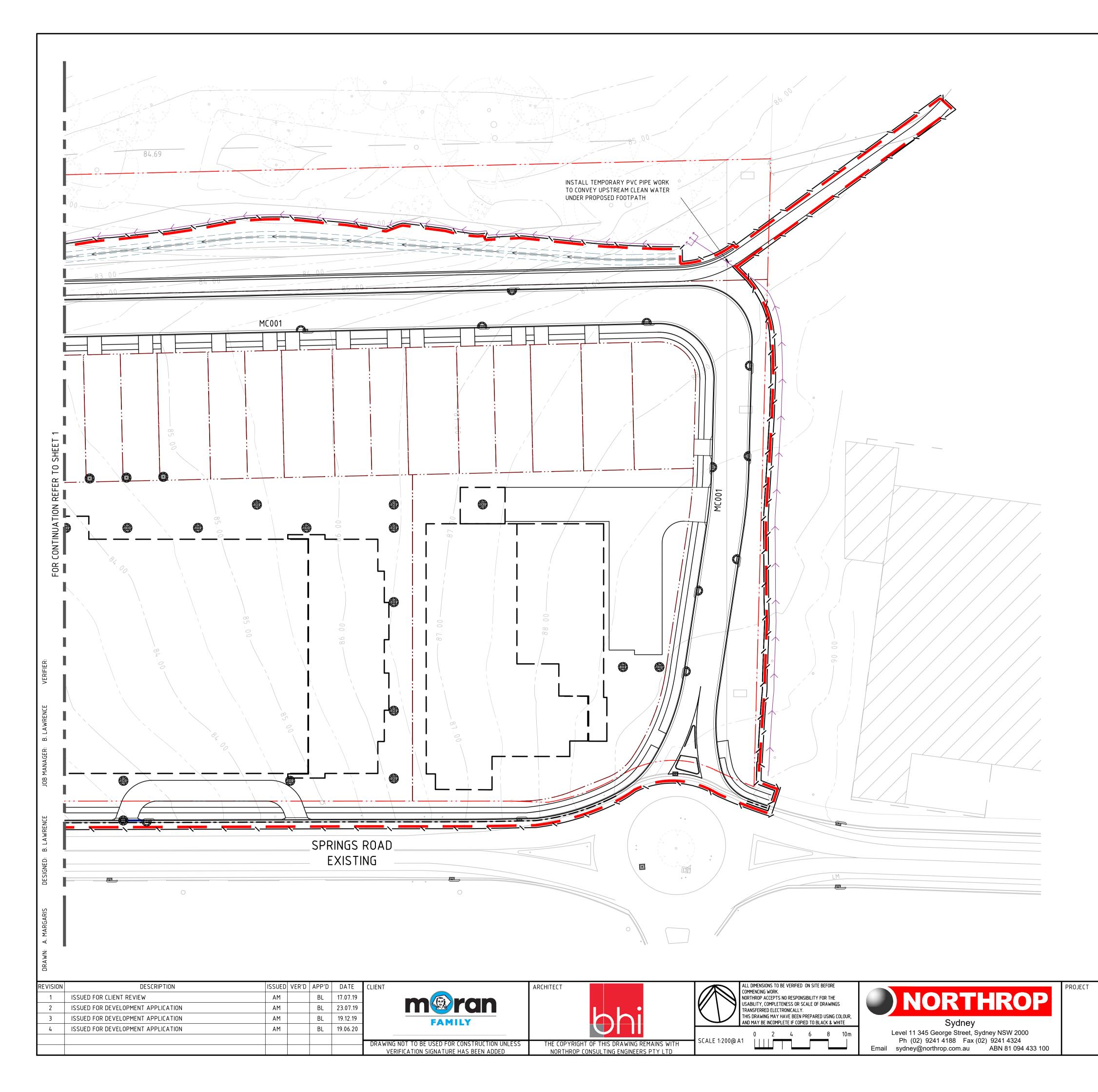
Site Name:	Spring	g Farm	- 131 \$	Springs	s Road		
Site Location:	Sprin	u Farm					
Precinct/Stage:	Maste	rplan					
Other Details:	N/A						
	Sub-	catchm	ent or	Name	of Stru	icture	
Site area	1						Notes
Total catchment area (ha)	3.675						
Disturbed catchment area (ha)	3.675						
Soil analysis (enter sediment t	une if	known	orlak	orator	v no rti	olo ciz	a data)
Sediment Type (C, F or D) if known:	D	known	, or lar	orator	y paru		From Appendix C (if known)
% sand (fraction 0.02 to 2.00 mm)	U						,
% silt (fraction 0.002 to 0.02 mm)							Enter the percentage of each soil
% clay (fraction finer than 0.002 mm)							fraction. E.g. enter 10 for 10%
Dispersion percentage							E.g. enter 10 for dispersion of 10%
% of whole soil dispersible							See Section 6.3.3(e). Auto-calculated
Soil Tex ture Group	D						Automatic calculation from abov e
Rainfall data							-
Design rainfall depth (no of days)	5						See Section 6.3.4 and, particularly,
Design rainfall depth (percentile)	75						Table 6.3 on pages 6-24 and 6-25.
x -day , y -percentile rainfall ev ent (mm)	20.2						
Rainfall R-factor (if known)							Only need to enter one or the other he
IFD: 2-y ear, 6-hour storm (if known)	9.5						
RUSLE Factors							
Rainfall erosivity (<i>R</i> -factor)	2020						Auto-filled from above
Soil erodibility (K-factor)	0.038						
Slope length (m)	8.5						
Slope gradient (%)	25						RUSLE LS factor calculated for a high
Length/gradient (LS -factor)	1.65						rill/interrill ratio.
Erosion control practice (P -factor)	1.3	1.3	1.3	1.3	1.3	1.3	
Ground cover (C-factor)	1	1	1	1	1	1	
Sediment Basin Design Criteria							
Storage (soil) zone design (no of months)	2	2	2	2	2	2	Minimum is generally 2 months
Cv (Volumetric runoff coefficient)	0.69						See Table F2, page F-4 in Appendix F
Coloulations and Ture D/E Ore	lines	Dealer	Velue				
Calculations and Type D/F Sec Soil loss (t/ha/y r)	165	Basin	volum	es			
Soil Loss Class	2						See Table 4.2, page 4-13
Soil Loss Class	127						Conversion to cubic metres
	78						See Sections 6.3.4(i) for calculations
Sediment basin storage (soil) v olume (m ³)	512						See Sections 6.3.4(i) for calculations
Sediment basin settling (water) volume (m ³)	012	1					

SEDIMENT BASIN – CALCULATION SPREADSHEET

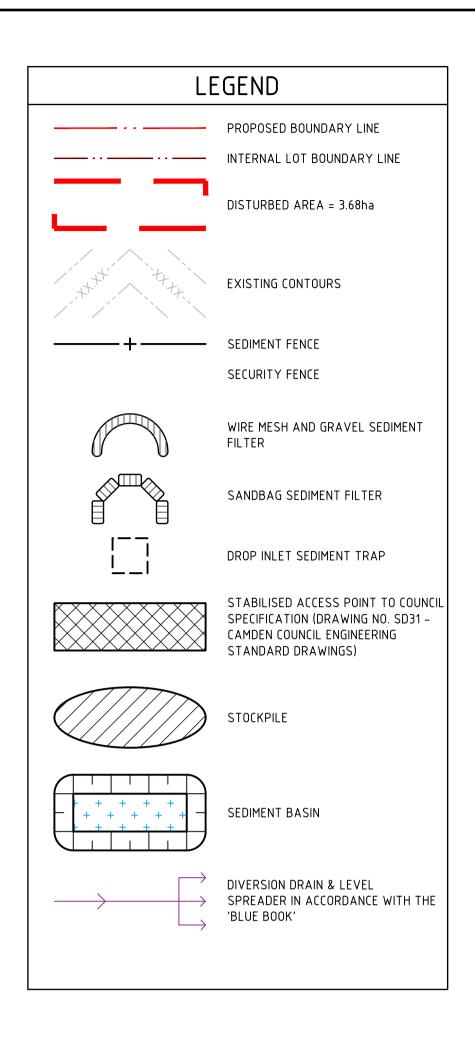


DR							
REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT ARCHITECT	
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131 SPRINGS ROAD, SPRING FARM



NOT FOR CONSTRUCTION

181741

DRAWING SHEET SIZE = A1

REVISION

4

DRAWING NUMBER

DAC02.02

DRAWING TITLE CIVIL ENGINEERING PACKAGE MASTER PLAN

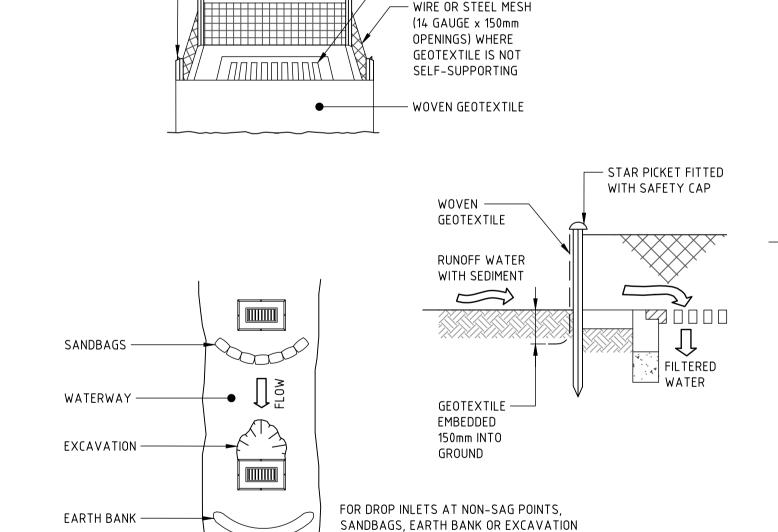
CONCEPT SEDIMENT AND SOIL EROSION CONTROL PLAN - SHEET 02 AM Plotted By : ALEX MARGARIS Found : 1:2018 jobs/181741 - 131 springs rd spring farm/d-drawings/d-northrop/C-CIVIL/2-CAD/2-CAD FILES/1-DA/MASTERPLAN/181744_DAC02.01.dwg

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19	m 🐼 ran	
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20	FAMILY	
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS	THE COPYRIGHT O
						VERIFICATION SIGNATURE HAS BEEN ADDED	NORTHROP CON



- THE DRAWING. 4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.
- 3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN
- STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
- 2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE
- 1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
- CONSTRUCTION NOTES

- USED TO CREATE ARTIFICIAL SAG POINT



STOCKPILES (SD 4-1)

– DROP INLET WITH GRATE

- 4. OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10. 5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5–5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.
- WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP
- 2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.

1 METRE MAX.

EARTH BANK ——

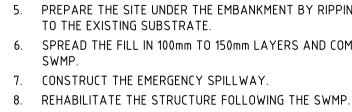
FLOW

STAR PICKETS

CONSTRUCTION NOTES 1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.

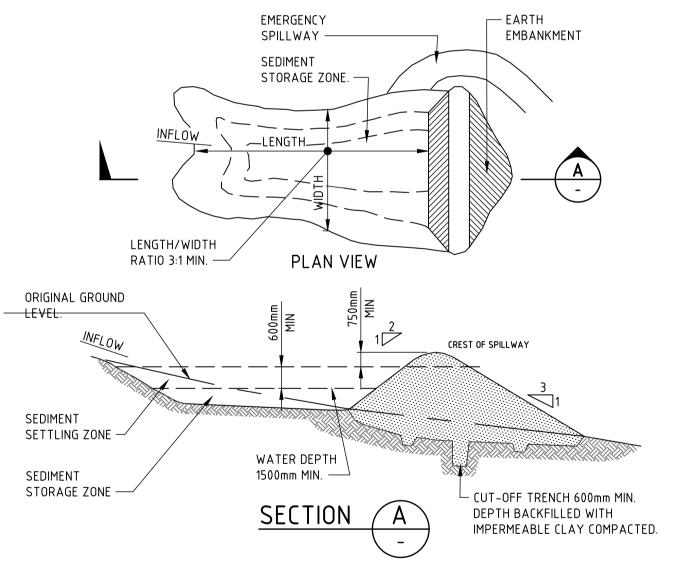
STABILISE STOCKPILE SURFACE

SEDIMENT FENCE -



CONSTRUCTION NOTES REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA. EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.

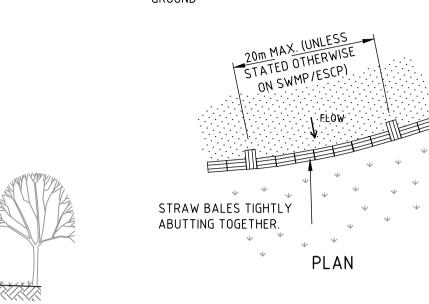
SWMP

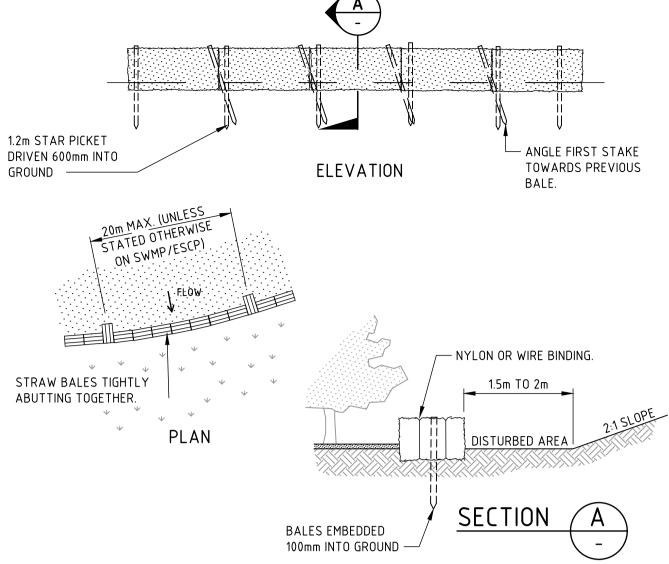


STRAW BALE FILTER (SD 6-7)

- 6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.
- 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 DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
- 4. EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE.
- 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 GROUND. 3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
- CONSTRUCTION NOTES SITE.









2. CONSTRUCT A CUT-OFF TRENCH 500mm DEEP AND 1200mm WIDE ALONG THE CENTRELINE OF THE EMBANKMENT

- 3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE
- SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.
- 4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
- PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100mm TO HELP BOND COMPACTED FILL
- 6. SPREAD THE FILL IN 100mm TO 150mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE

 - (APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY) EARTH BASIN - WET (SD 6-4)

2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE – WORK AROUND THEM.

5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.

- WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

EARTH BANK - LOW FLOW (SD 5-5)

3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER

4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.

NOTE: ONLY TO BE USED AS TEMPORARY BANK

6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

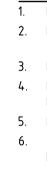


Ph (02) 9241 4188 Fax (02) 9241 4324

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



PROJECT



– 1.5m STAR PICKETS AT MAX 2.5m CENTRES

ON SOIL, 150mmx100mm

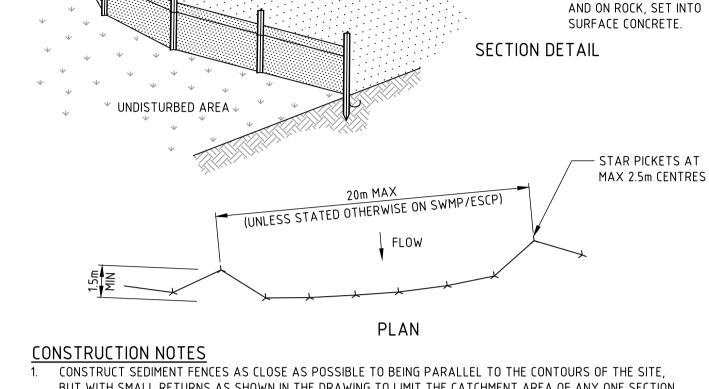
COMPACTED BACKFILL

- SELF-SUPPORTING

GEOTEXTILE

TRENCH WITH

DIRECTION OF FLOW



1.5m STAR PICKETS AT

DIRECTION

OF FLOW

MAX 2.5m CENTRES

DISTURBED.

AREA

- 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 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE 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.

SEDIMENT FENCE (SD 6-8)

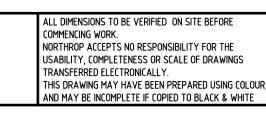
- GRADIENT OF CAN BE CONSTRUCTED WITH - ALL BATTER GRADES DRAIN 1% TO 5% OR WITHOUT CHANNEL. 2(H):1(V) MAX. DIRECTION OF FLOW 2 METRES MIN.

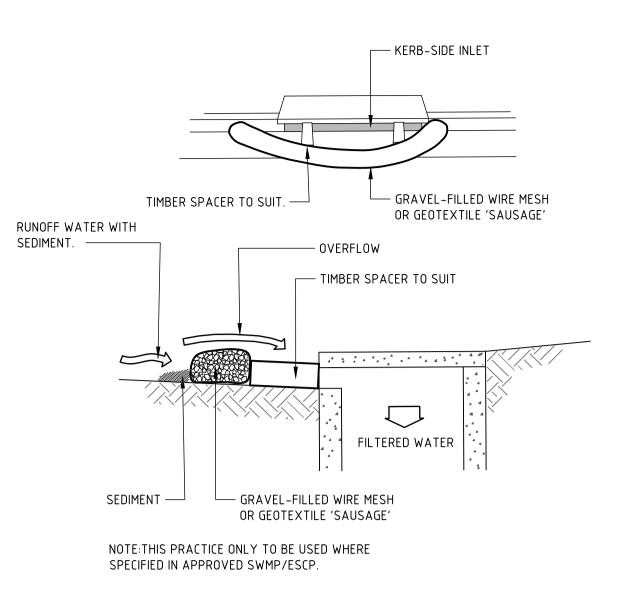
CONSTRUCTION NOTES

FLOW.

1. BUILD WITH GRADIENTS BETWEEN 1 AND 5 PERCENT.

OF THIS DRAWING REMAINS WITH INSULTING ENGINEERS PTY LTD





CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.

2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.

3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.

4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.

5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.

6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH AND GRAVEL INLET FILTER (SD 6–11)

NOT FOR CONSTRUCTION

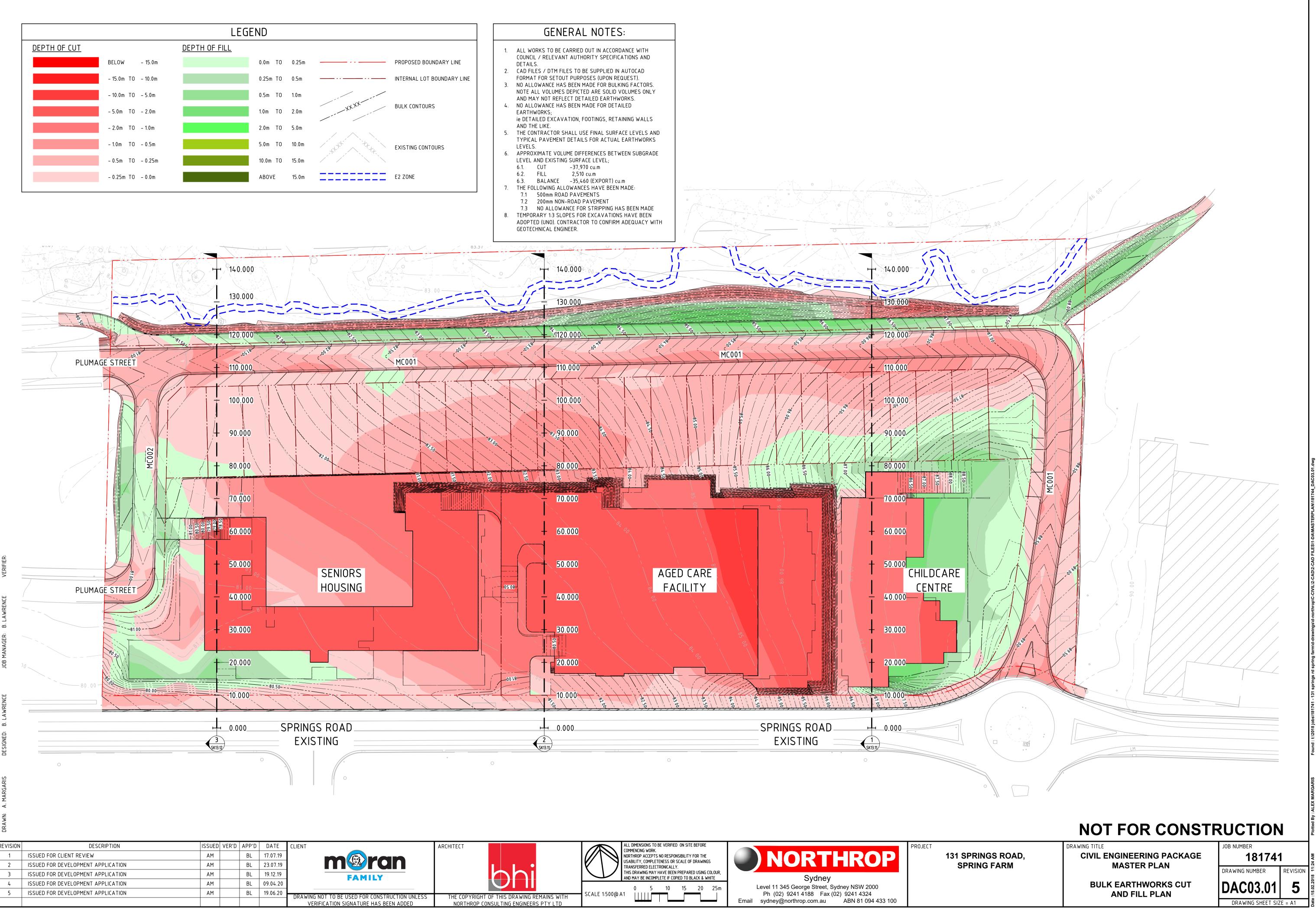
CIVIL ENGINEERING PACKAGE MASTER PLAN

DRAWING TITLE

SEDIMENT AND SOIL **EROSION CONTROL DETAILS**

JOB NUMBER 181741 DRAWING NUMBER REVISION **DAC02.11** 3 DRAWING SHEET SIZE = A1

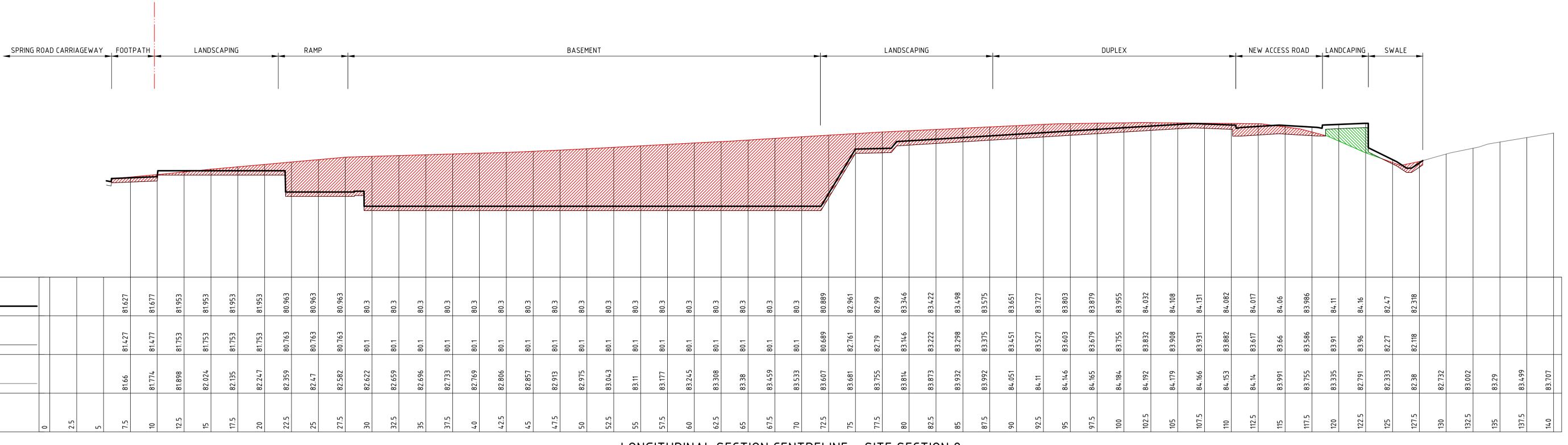
		LEC	JEND			
DEPTH OF CUT		DEPTH OF FILL				
	BELOW - 15.0m		0.0m TO	0.25m		PROPOSED BOUNDARY LINE
	- 15.0m TO - 10.0m		0.25m TO	0.5m		INTERNAL LOT BOUNDARY LI
	– 10.0m TO – 5.0m		0.5m TO	1.0m		
	-5.0m TO -2.0m		1.0m TO	2.0m	×X.XX	BULK CONTOURS
	-2.0m TO -1.0m		2.0m TO	5.0m		
	– 1.0m TO – 0.5m		5.0m TO	10.0m		EXISTING CONTOURS
	-0.5m TO -0.25m		10.0m TO	15.0m		
	-0.25m TO -0.0m		ABOVE	15.0m		E2 ZONE



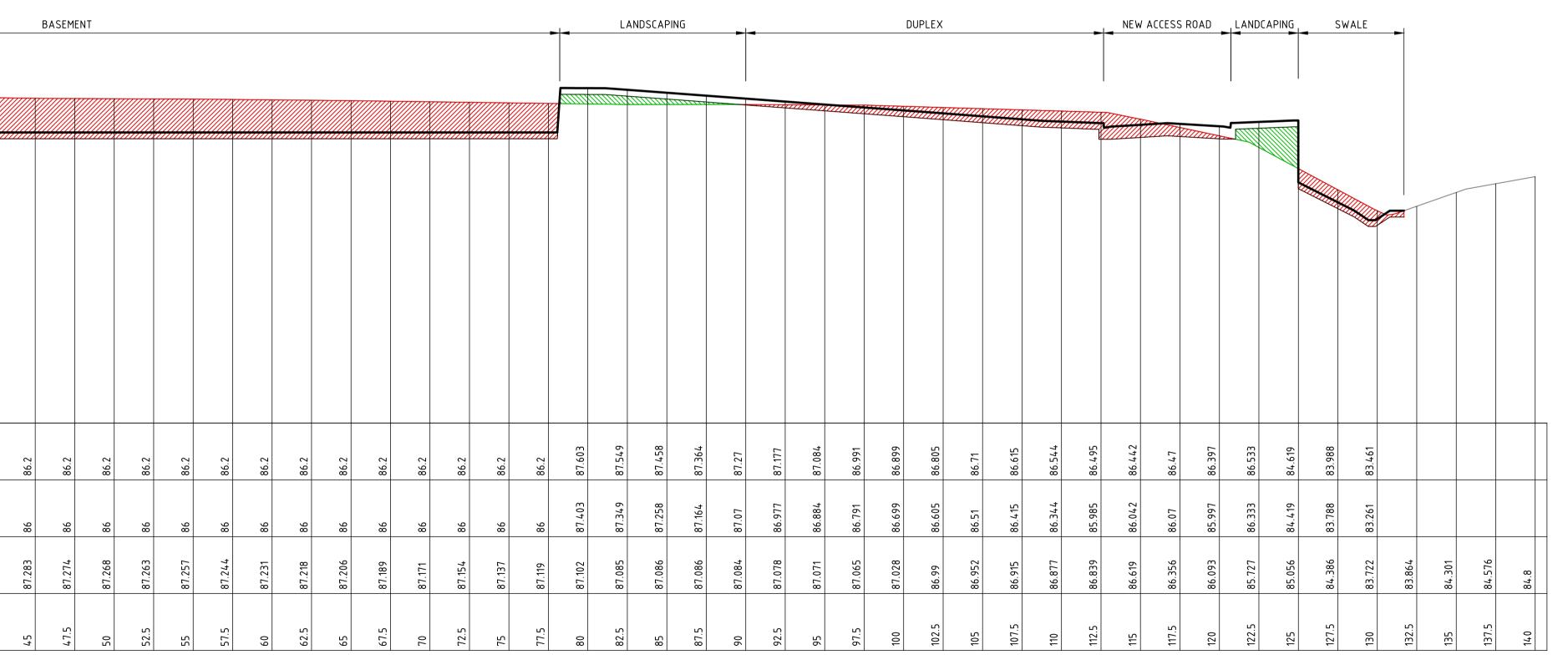
DR						
REVISION	DESCRIPTION	ISSUED	VER'D APP'D	DATE	CLIENT	ARCHITECT
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5	ISSUED FOR DEVELOPMENT APPLICATION	AM	BL	19.06.20	DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS	THE COPYRIGHT
					VERIFICATION SIGNATURE HAS BEEN ADDED	NORTHROP CO

		SPRING ROAD	CARRIAC	JEWAY	FOOT		LANDS	CAPING											
							Z												
FIER:																			
VERIFIER:																			
B. LAWRENCE																			
LAW																			
JOB MANAGER:	DATUM R.L. 77																		
JOB M																			
	DESIGN LEVEL				87.08	87.13	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
ICE					8	8	∞	8	8	8	∞	8	8	∞	8	8	8	~~~~~	8
LAWRENCE	BEW LEVEL				86.88	86.93	86	86	86	86	86	86	86	86	86	86	86	86	86
ю					8	8	8	8	8		8	8		8	8	8			
DE SIGNED:	EXISTING LEVEL				87.033	87.021	87.009	87.022	87.055	87.089	87.122	87.155	87.189	87.222	87.254	87.275	87.296	87.316	87.301
DESI					8		8	8	8	8	8	<u></u>		8	8	8			
	CHAINAGE	0	2.5	ъ	7.5	10	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35	37.5	0 7	42.5
GARIS								<u> </u>										7	1
A. MARGARIS																			
DRAWN:																			
REVI	SION DESC	RIPTION				ISSUED	VER'D	APP'D	DATE	CLIENT							AR	CHITECT	
						AM		BL	17.07.19	_				20					
						AM		BL	23.07.19	-			A VA			_			

								,,,,,,,,,,, ,										
DATUM R.L. 77																		
DESIGN LEVEL	-			81.627	81.677	81.953	81.953	81.953	81.953	80.963	80.963	80.963	80.3	80.3	80.3	80.3	80.3	80.3
BEW LEVEL	_			81.427	81.477	81.753	81.753	81.753	81.753	80.763	80.763	80.763	80.1	80.1	80.1	80.1	80.1	
EXISTING LEVEL	_			81.66	81.774	81.898	82.024	82.135	82.247	82.359	82.47	82.582	82.622	82.659	82.696	82.733	82.769	
CHAINAGE	0	2.5	ß	7.5	10	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35	37.5	0 7	42.5







LONGITUDINAL SECTION CENTRELINE - SITE SECTION 1

SCALE 1:200 (H) SCALE 1:100 (V)



ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE Commencing Work. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE

NORTHROP Sydney Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100 131 SPRINGS ROAD, SPRING FARM

PROJECT

NOT FOR CONSTRUCTION

CIVIL ENGINEERING PACKAGE MASTER PLAN

DRAWING TITLE

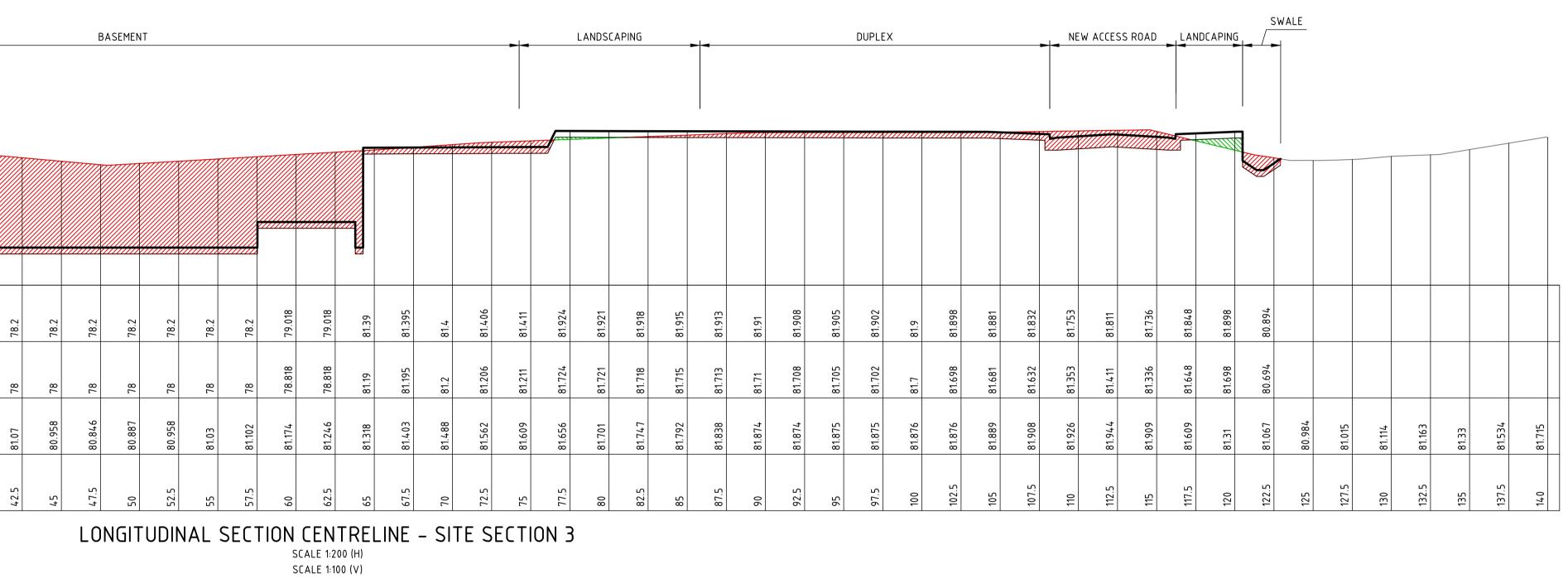
JOB NUMBER 181741 DRAWING NUMBER REVISION BULK EARTHWORKS CUT AND DAC03.11 5 FILL SECTIONS - SHEET 01 DRAWING SHEET SIZE = A1

DESIGNED: B. LAWRENCE			
JOB MANAGER: B. LAWRENCE			
VERIFIER:			

				6 77777		The second												
DATUM R.L. 77																		
DESIGN LEVEL	-			80.133	80.183	80.515	80.847	80.974	81.099	81.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	C 0L
BEW LEVEL	_			79.933	79.983	80.315	80.647	80.774	80.899	80.9	78	78	78	78	78	78	78	0
EXISTING LEVEL	-			80.141	80.187	80.232	80.277	80.323	80.368	80.444	80.622	80.799	80.976	81.154	81.331	81.293		
CHAINAGE	0	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35	37.5	0	125

LANDSCAPING

SPRING ROAD CARRIAGEWAY





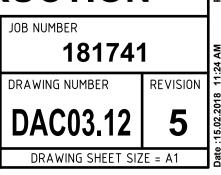
ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE Commencing Work. COMMENLING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE



131 SPRINGS ROAD, SPRING FARM

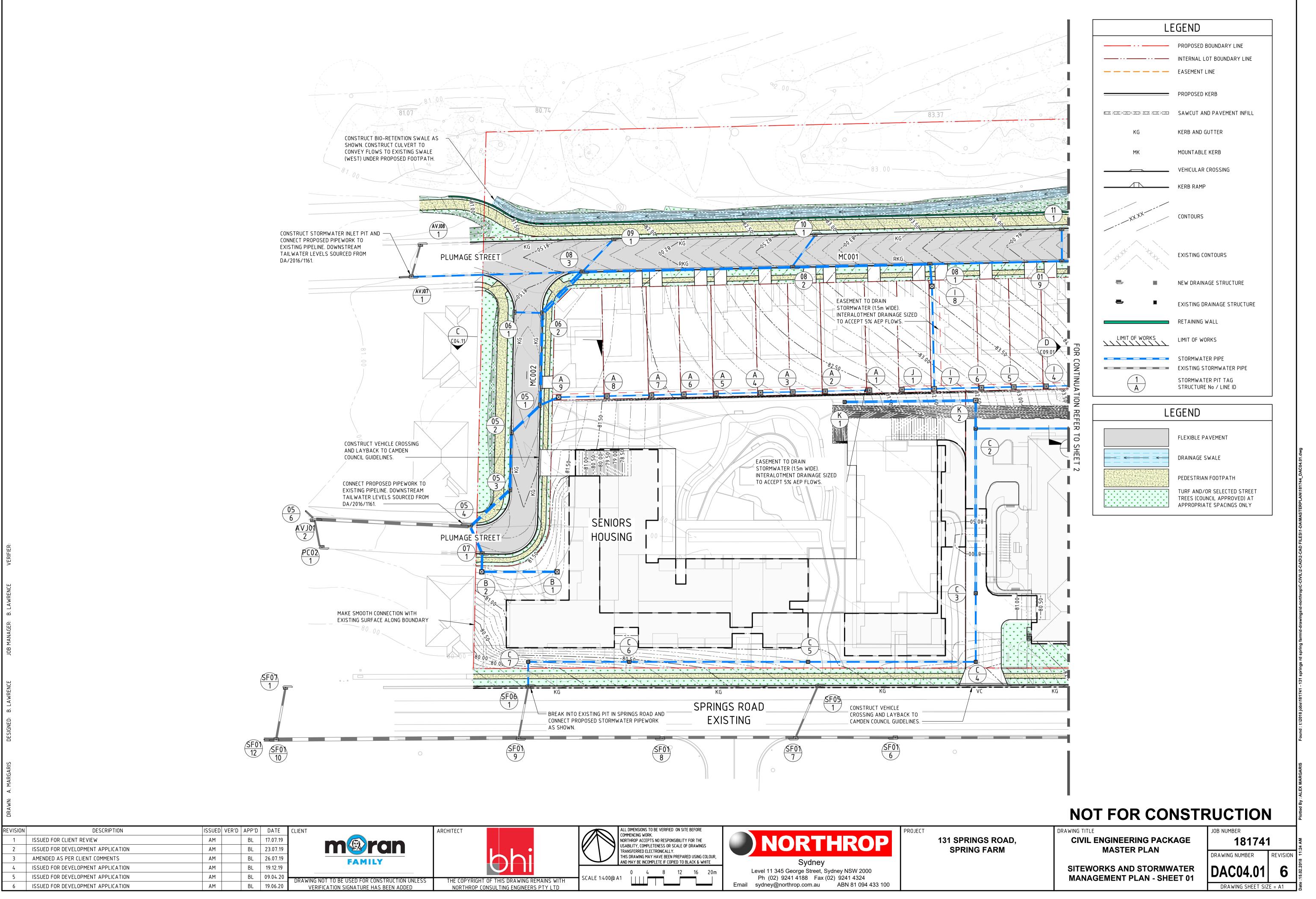
PROJECT

NOT FOR CONSTRUCTION

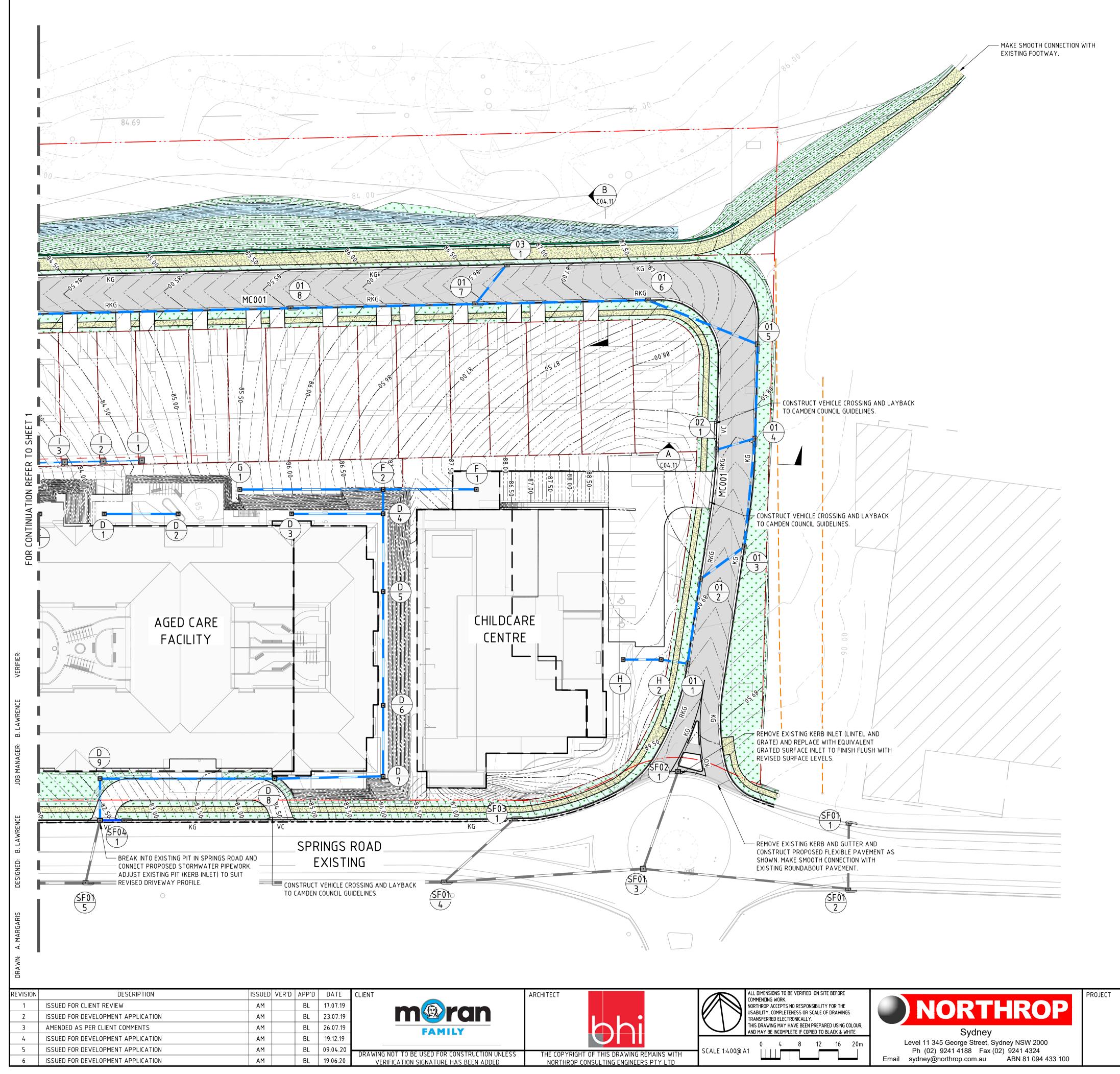


DRAWING TITLE CIVIL ENGINEERING PACKAGE MASTER PLAN

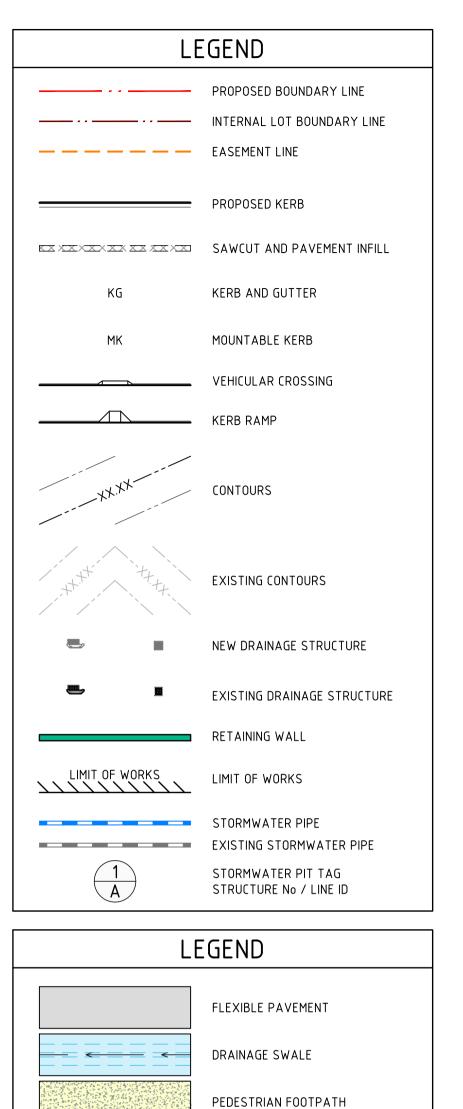
BULK EARTHWORKS CUT AND FILL SECTIONS - SHEET 02



2	ISSUED FOR DEVELOF HERT AT LECATION			23.07.17		1
3	AMENDED AS PER CLIENT COMMENTS	AM	BL	26.07.19	FAMILY	
4	ISSUED FOR DEVELOPMENT APPLICATION	AM	BL	19.12.19		
5	ISSUED FOR DEVELOPMENT APPLICATION	AM	BL	09.04.20	DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS	
6	ISSUED FOR DEVELOPMENT APPLICATION	AM	BL	19.06.20	VERIFICATION SIGNATURE HAS BEEN ADDED	NORTHROP



131 SPRINGS ROAD, SPRING FARM



TURF AND/OR SELECTED STREET TREES (COUNCIL APPROVED) AT APPROPRIATE SPACINGS ONLY

DRAWING TITLE

CIVIL ENGINEERING PACKAGE MASTER PLAN

SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 02

 181741

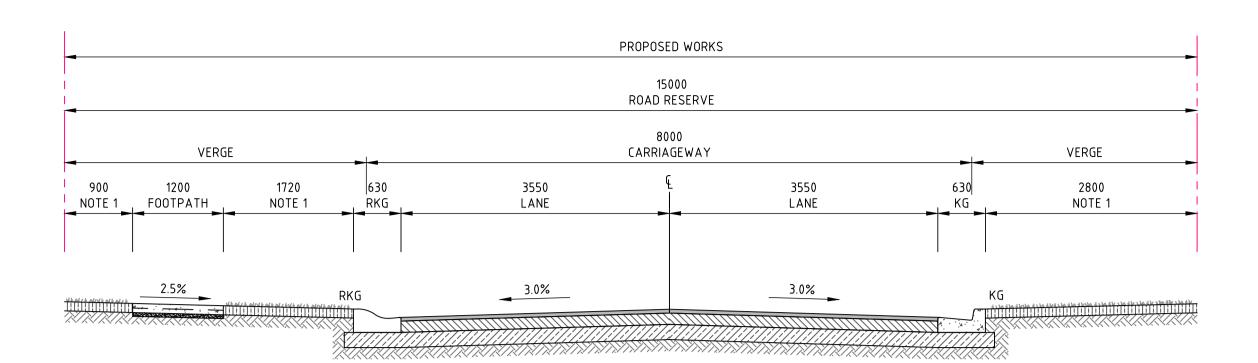
 DRAWING NUMBER
 REVISION

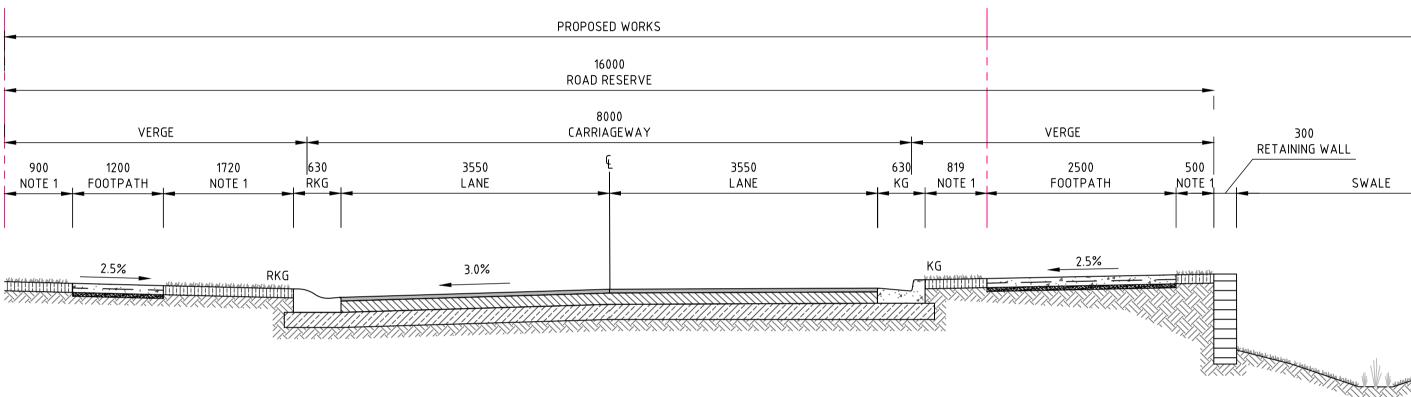
 DAC04.02
 6

 DRAWING SHEET SIZE = A1

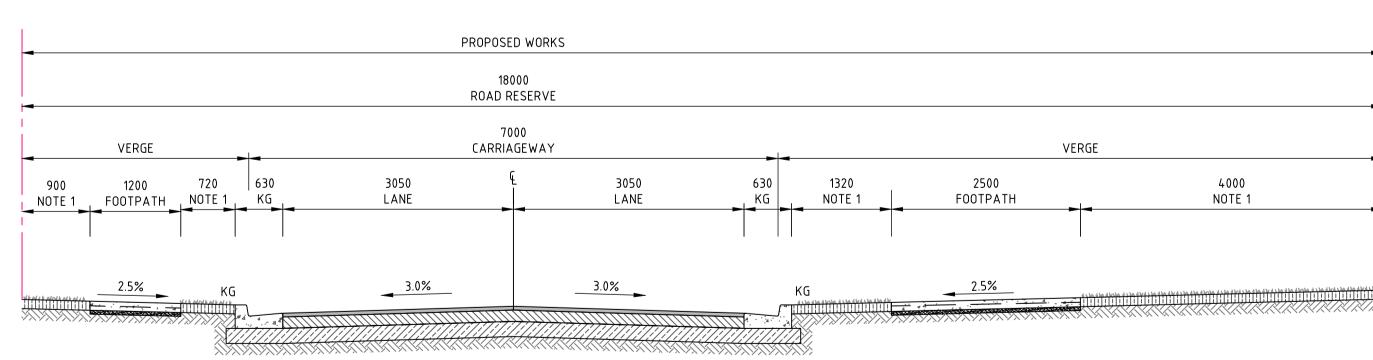
NOTES

1. TURF AND/OR SELECTED STREET TREES (COUNCIL APPROVED) AT APPROPRIATE SPACINGS ONLY





V ERIFIER:						
B. LAWRENCE						
JOB MANAGER:						
DESIGNED: B. LAWRENCE						
A. MARGARIS						
DRAWN:						
REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19	
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	23.07.19	m
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19	
4	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20	
						DRAWING NOT TO BE U



SION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT		
	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19				
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	23.07.19				
	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19	FAMILY			
-	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20				
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS	THE COPYRIGHT O		
						VERIFICATION SIGNATURE HAS BEEN ADDED	NORTHROP CON		



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131 SPRINGS ROAD, SPRING FARM

PROJECT



NEW PUBLIC ACCESS ROAD SECTION B (04.02



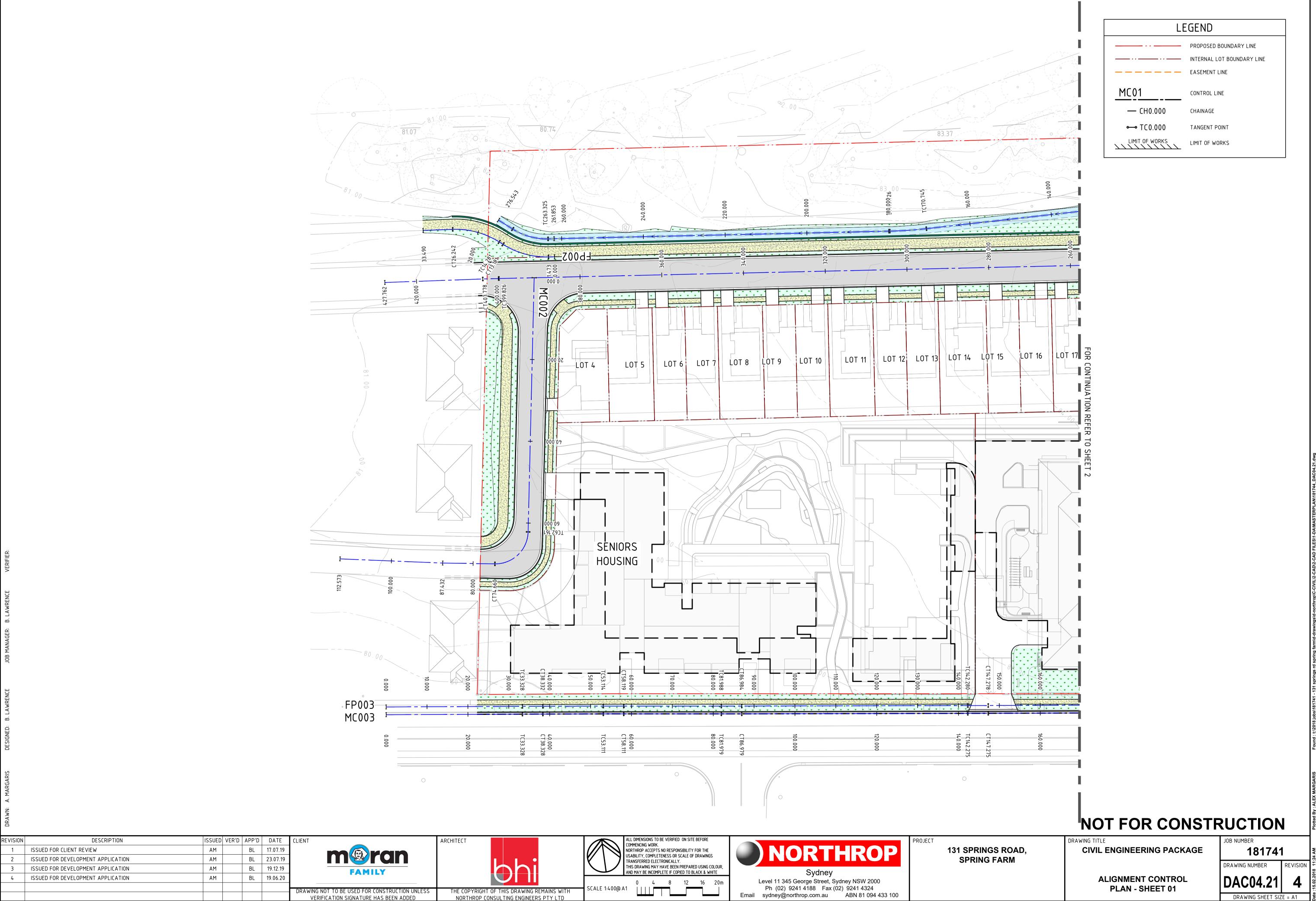


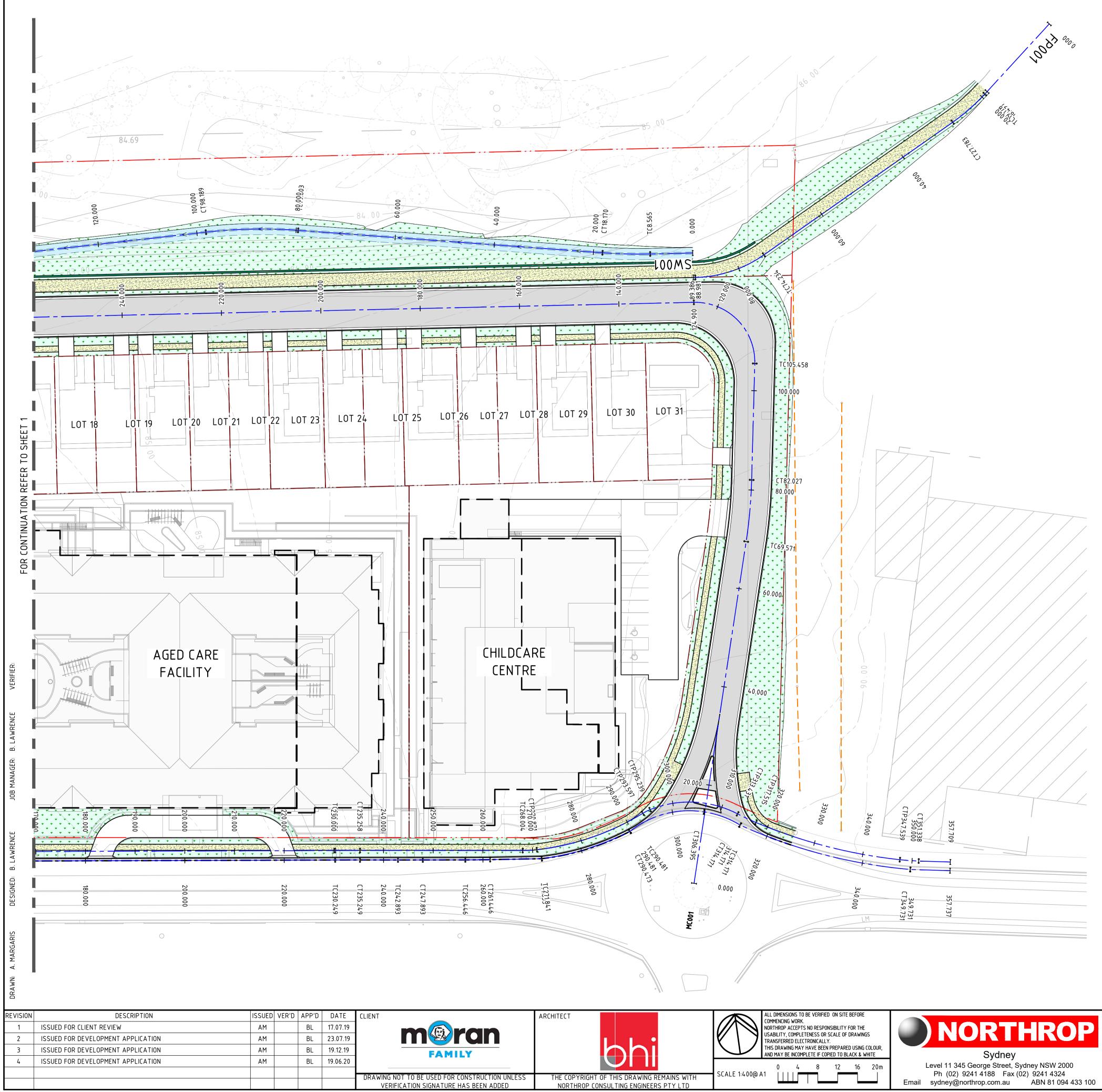
NOT FOR CONSTRUCTION DRAWING TITLE

CIVIL ENGINEERING PACKAGE MASTER PLAN

TYPICAL ROAD SECTIONS

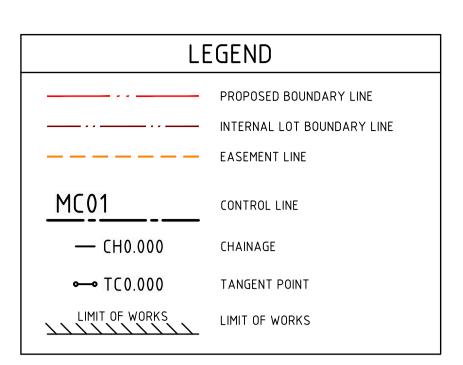
JOB NUMBER 181741 DRAWING NUMBER REVISION DAC04.11 4 DRAWING SHEET SIZE = A1





131 SPRINGS ROAD, SPRING FARM

PROJECT



NOT FOR CONSTRUCTION

DRAWING TITLE CIVIL ENGINEERING PACKAGE

> ALIGNMENT CONTROL PLAN - SHEET 02

DAC04.22 4 DRAWING SHEET SIZE = A1

181741

REVISION

JOB NUMBER

DRAWING NUMBER



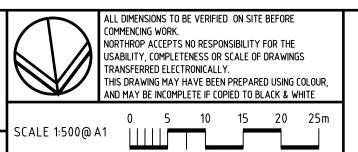
																																								-
DATUM RL53																																								
EXISTING	87.362 87.424	87.378 87.226	.07	86.919 86.732	6.494	85.995	85.596 85.256	.945	+.676 +.535	4.402	ر15. 1227		022 963	83.901	1526 157	83.651	83.541	83.236	83.109	82.898	82.797	82.706	2.555	2.444	2.37	2.24	2.174	2.012	1.909	1.784	.539	.42	.303	474	1.255	81.31 81.529	1.243	1.315 1.401	1.098	0.811
SURFACE	87	87 87	87	86 86	86	82 00	85. 85	84	78 78	78	78 78	84	84							82 83	82	82	82 82 82	82	8282	82	82	82 07	81	81. 81.	8 0	81	8	<u>8</u> 8	8	81 81	8	8181	8	80
HEIGHT (FSL-FSL)	0.02	0.40	0.74	0.90	1.22	1.57	1.75 1 94	1.93	1.75 1.53	1.32	1.10 0.88	0.67	0 3 0 3 0	0.21	0.19	0.25	0.34	0.58	0.70	0.94	1.06	1.27	1.37	1.56	1.66 1.70	1.69	1.64	1.49	1.42	1.34	1.20	1.13	1.08	0.99	0.95	0.91 0.87	0.82	0.72	0.59	0.41
RETAINING WALL	99	85	61	50 37	22	92	78 66	53	6.41 6.29	6.17	05 93	81	69 57	45	33	08	96	.72	. 09	14.48	24	00	88 76	63	51 39	27	15	cu 16	79	67 55	62.43	12.32	12.22	17 03	95	81 88	74	56	+ 3	22
TOP FSL	88.13	87.85 87.72	87.	87.37	87.22	. / 0 . 86.	86.78 86.66	86.	86. 86.	86.	86.05 85.93	85.81	85.69 85.57	85.45	85.33 85.33	85.08	84.	04. 84.	84.	84.48	84.24	84.00	83.88 83.76	83.63	83.39 83.39	83.27	83.15 0. 0.	82.91	82.79	82.67 82.57	02. 82.	82.	82. 02	82.12 82.03	81.95	81.88 81.88 81.81	81.74	81.66 81.59	81.43	81.22
RETAINING WALL	79	45	87	86.60 86.32	86.00 of 20	35	85.02 84.72	84.60	.67 .76	.86	95 05	14	23 27	23	13	84	.63	40	83.90	66 42	18	73	51 29	07	86 69	28	51	4 0 4 2	37	33	23	19	14	05	00	80.97 80.94	80.92	80.89 80.87	84	80.81
BOTTOM FSL	88.11 87.79	87.45 87.19	86.87	86.60 86.32	86. oF	85.35	85.(84	84.	84. 84.	84.86	84.95	85.14	85.23 85.23	85.23	85.13 85.00	00.C0 84.84	84.	4C.40 4L.48	83 [.]	83.42	83 _. 18	82.73	82.51 82.29	82.07	81.86 81.69	81.58	81.51	01.40 81.42	81.37	81.33 81.78	01.20 81.23	81.19	81.14	81.09 81.05	81.00	80.97 80.94	80.	80. 80.	80.84	80
CHAINAGE	0.00 5.00	10.00 15.00	20.00	30.00	35.00	45.00	50.00 55.00	60.00	65.00 70.00	75.00	80.00 85.00	90.00	95.00	105.00	110.00 115.00	120.00	125.00	135.00	14.0.00	150.00	155.00	165.00	170.00 175.00	180.00	185.00 190.00	195.00	200.00	210.00	215.00	220.00 225.00	230.00	235.00	240.00	250.00	255.00	260.00 265.00	270.00	275.00 280.00	285.00	290 00

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	23.07.19		
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19	FAMILY	
4	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20		
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS	THE COPYRIGHT
						VERIFICATION SIGNATURE HAS BEEN ADDED	NORTHROP CO

PLAN SCALE 1:500

ELEVATION OF RWOOT RETAINING WALL





NORTHROP Sydney

131 SPRINGS ROAD, SPRING FARM

PROJECT

Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100

NOT FOR CONSTRUCTION

JOB NUMBER

DRAWING NUMBER

DAC04.31

181741

DRAWING SHEET SIZE = A1

REVISION

4



DRAWING TITLE CIVIL ENGINEERING PACKAGE MASTER PLAN

RETAINING WALL ALIGNMENT CONTROL PLAN AND SECTION

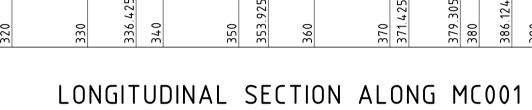
REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19		
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20	FAMILY	
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS	THE COPYRIGHT
						VERIFICATION SIGNATURE HAS BEEN ADDED	NORTHROP CO

											_						
DESIGN GRADELINE		-0.125%		-0.500		<					-1.605%						
VERTICAL GEOMETRY Horizontal geometry				<u> </u>	<u>) 0 m</u>	V.C. >	-							-100m RAD		35.0	
DATUM RL 75.0							Ь							}	\downarrow	5	_
FINISHED SURFACE	89.601	89.588	89.583	89.544	89.525	89.425	89.417	89.312	89.256	89.096	88.935	88.782	88.775	88.601	88.564	88.536	161 00
EXISTING SURFACE				89.562		89.316		89.135	89.093				88.805				
CHAINAGE	0	10	14.481	20	21.981	29.481	30	36.53	4 0	50	60	69.571	70	80	82.027	83.496	

LIMIT OF

89

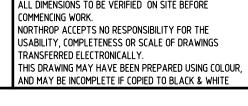
പ





HORIZONTAL SCALE 1:500@A1 VERTICAL SCALE 1:100@A1

	FOR CONTINUATION REFER BELOW	_								-	U20.28 .1.2 AVIV				
	FOR CONT														
DESIGN GRADELINE		-				-2.417%				->	<		\parallel		
VERTICAL GEOMETRY								<	3	5.00	m V.C.				
HORIZONTAL GEOMETRY															
DATUM RL 74.0															
FINISHED SURFACE		83.475	83.354	83.112	82.87	82 628	82.473	82.389	82.171	82.094	81.982	81822	81.801	81.689	81.679
EXISTING SURFACE		83.377	83.281	82.953			52		82.205					81.628	
CHAINAGE		295	300				425			925			425	379.305	

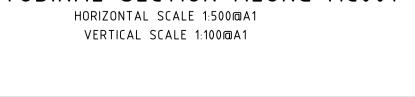


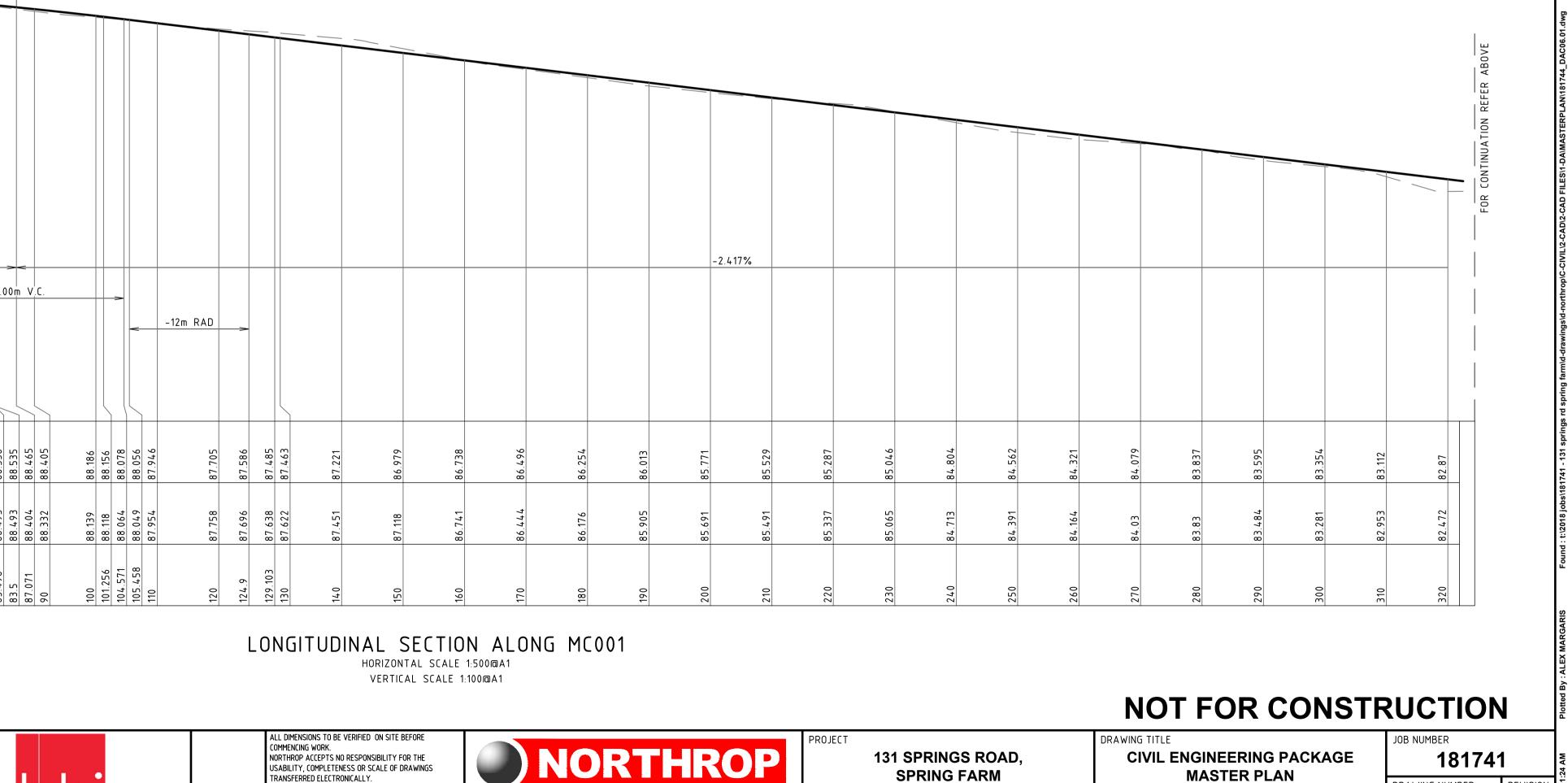
Sydney Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100

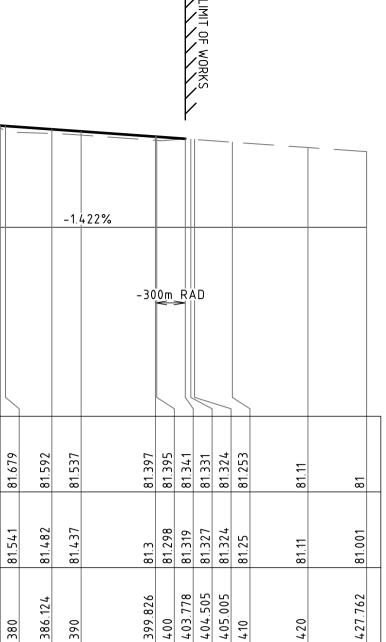
131 SPRINGS ROAD, SPRING FARM

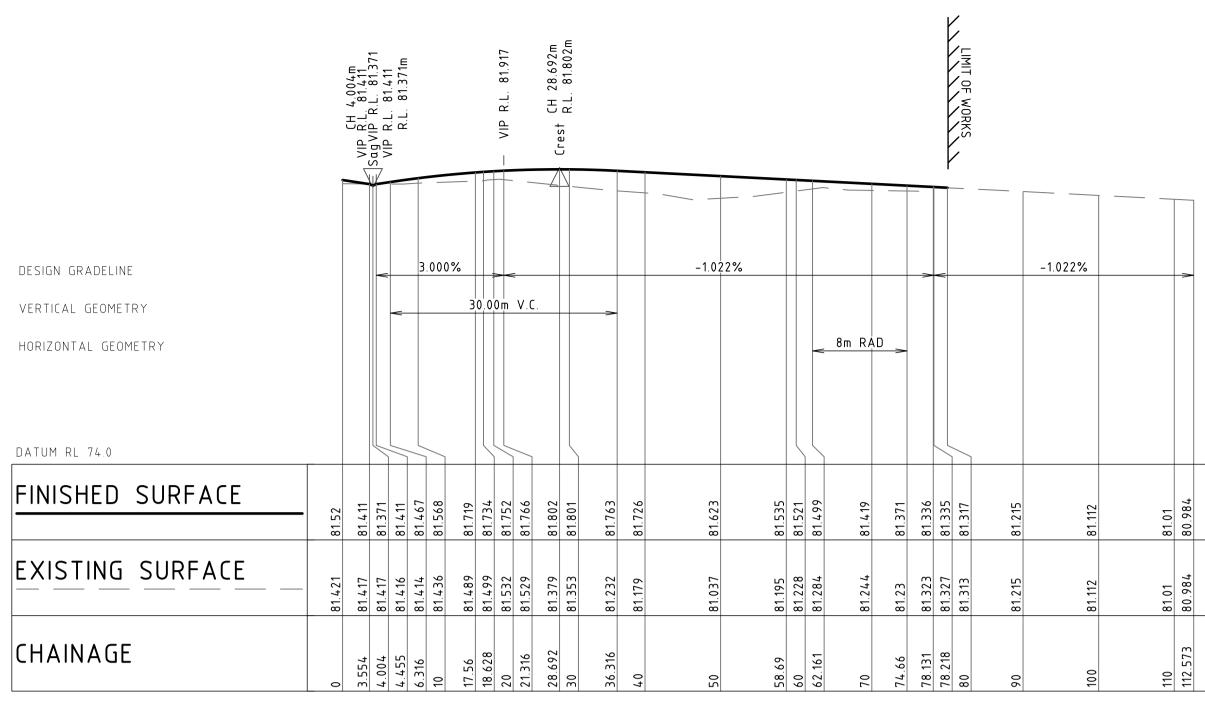












LONGITUDINAL SECTION ALONG MC002

HORIZONTAL SCALE 1:500@A1 VERTICAL SCALE 1:10000A1

MASTER PLAN

LONGITUDINAL SECTIONS -SHEET 01

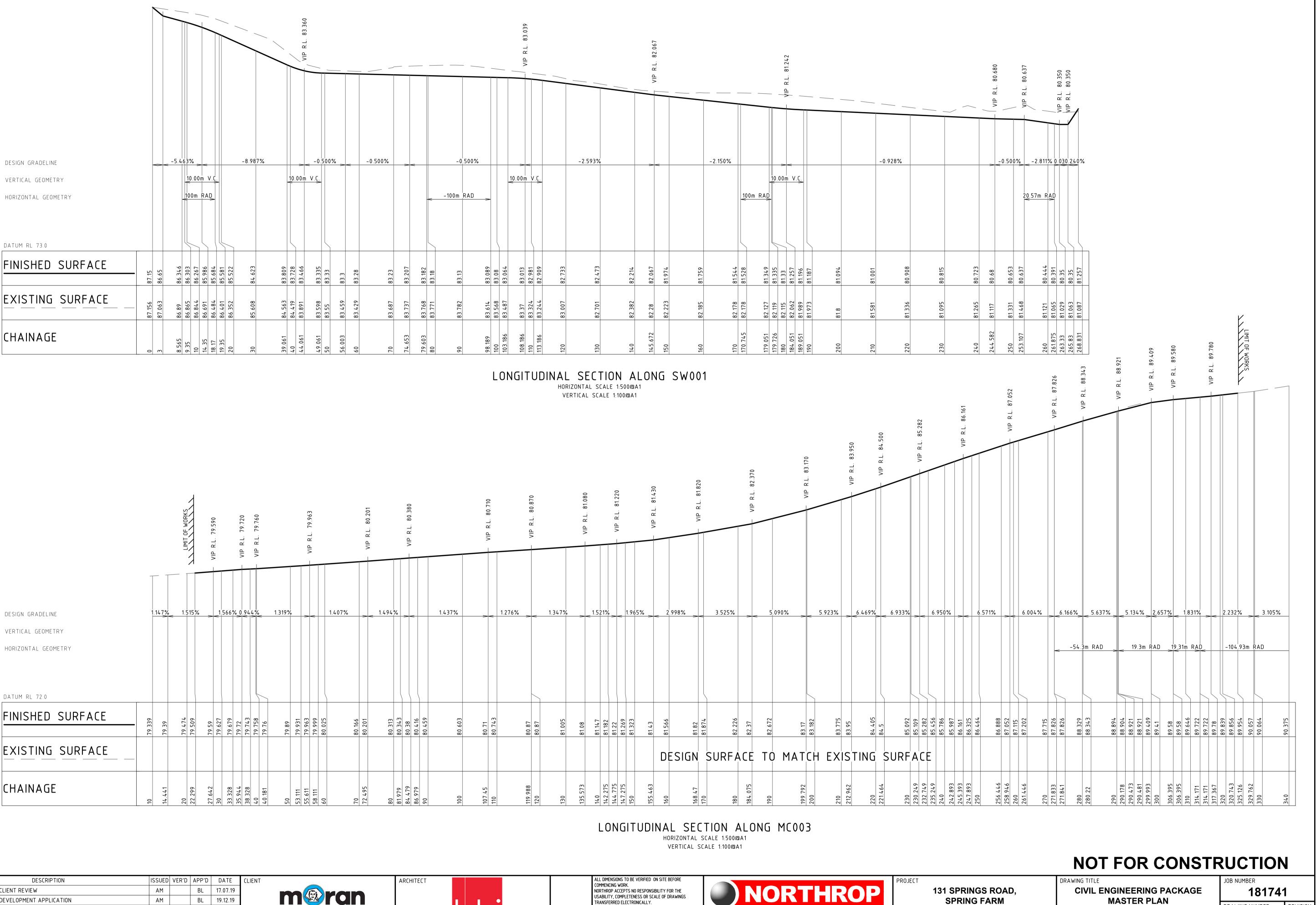
DRAWING NUMBER

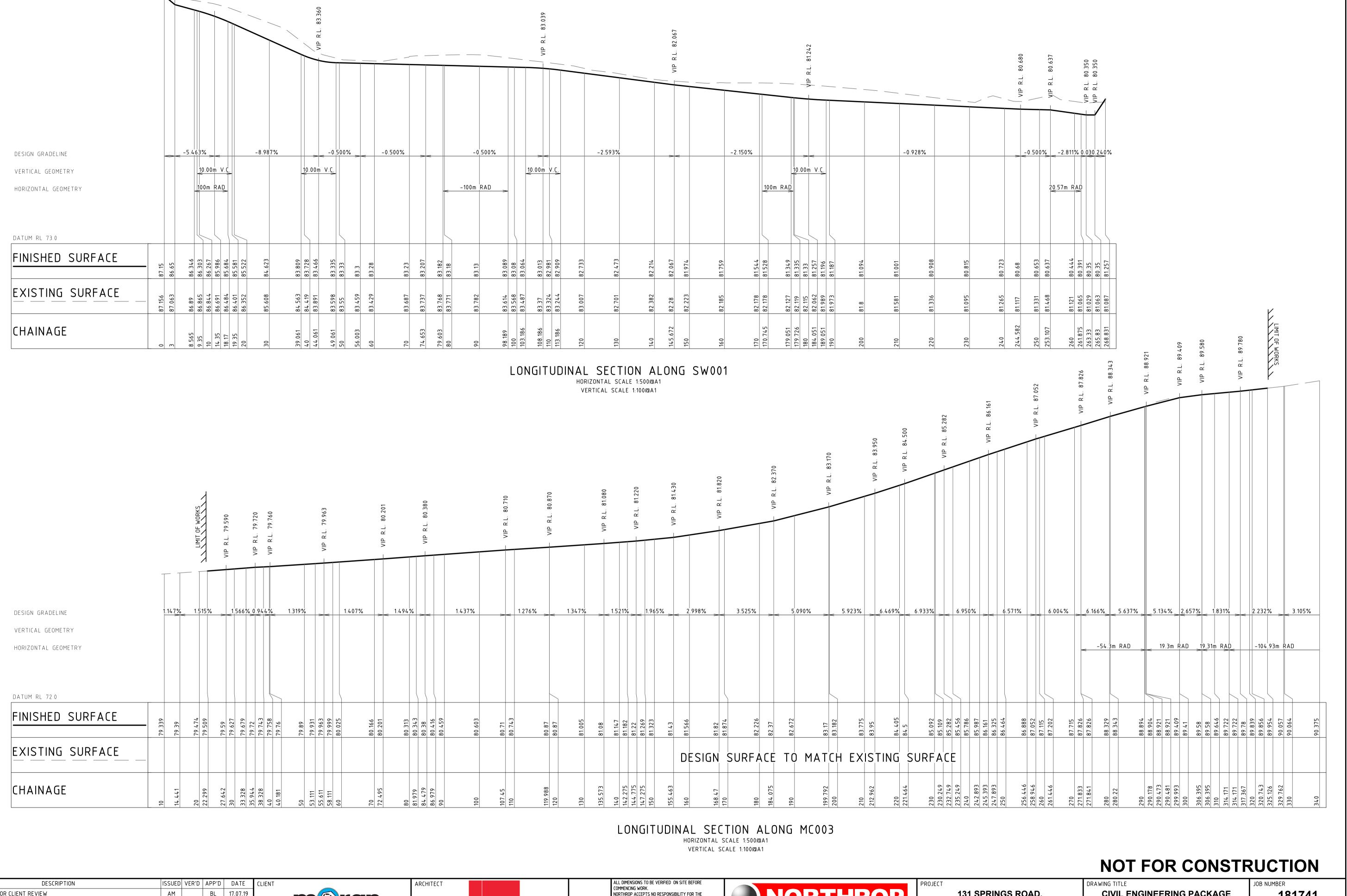
DAC06.01

DRAWING SHEET SIZE = A1

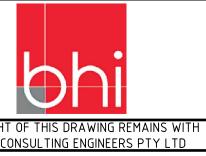
REVISION

3





REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19		
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20	FAMILY	
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS	THE COPYRIGHT
						VERIFICATION SIGNATURE HAS BEEN ADDED	NORTHROP CO



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Sydney Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100 131 SPRINGS ROAD, SPRING FARM

LONGITUDINAL SECTIONS -SHEET 02

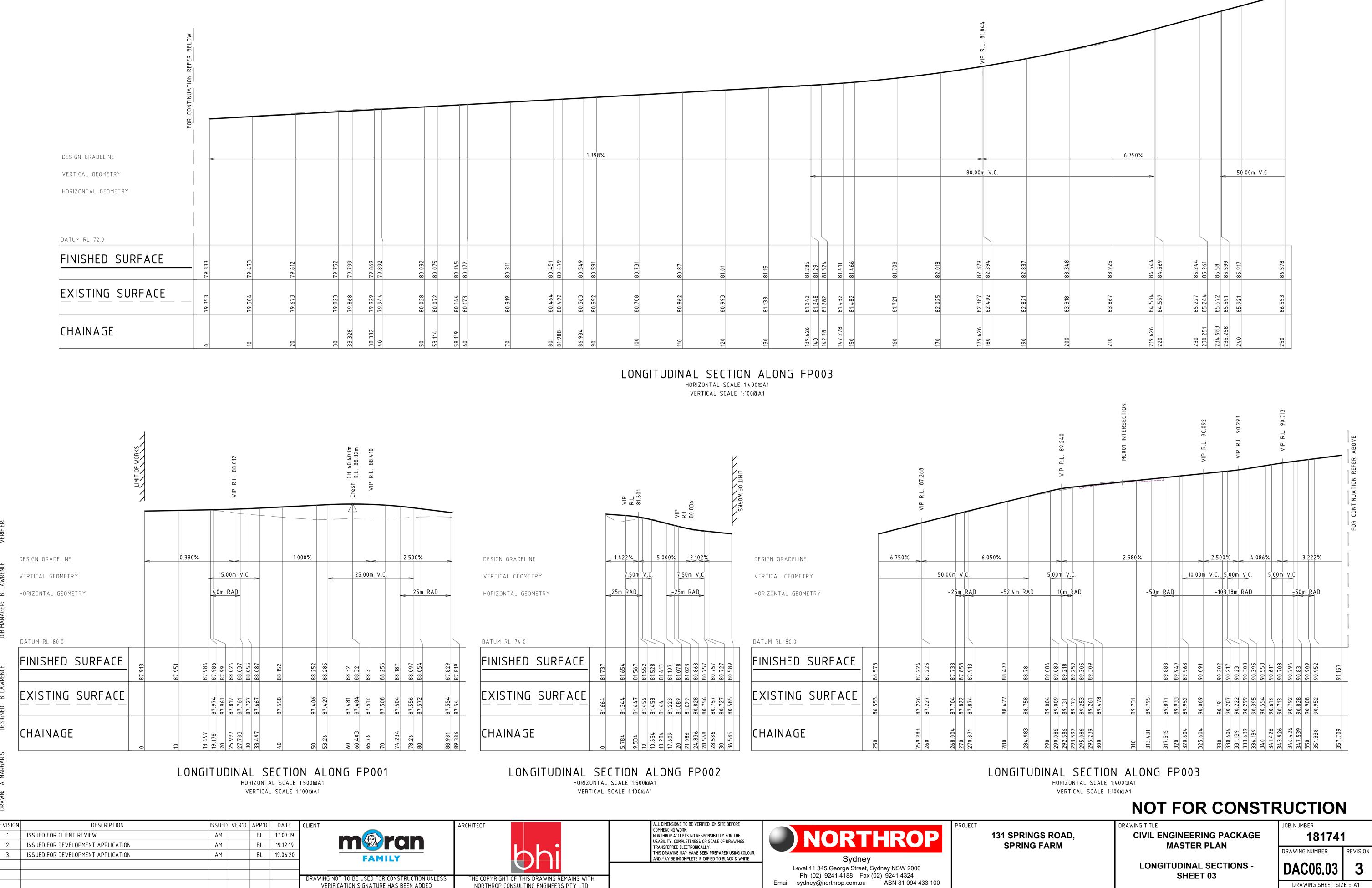
MASTER PLAN

DAC06.02 3 DRAWING SHEET SIZE = A1

REVISION

DRAWING NUMBER

	FOR CONTINUATION REFER BELOW											
	FOR COI											
DESIGN GRADELINE		<										
VERTICAL GEOMETRY	Ì											
HORIZONTAL GEOMETRY												
DATUM RL 72.0												
FINISHED SURFACE		200.00 79.473	79.612	79.752	9.799	79.869	79.892	80.032	80.075	80.145	80.172	80.311
	102	10	19	19	79	79	79	80	80	80	80	80
EXISTING SURFACE	10 353	79.504	579.67	79.823	79.868	79.929	79.944	80.028	80.072	80.144	80.173	80.319
CHAINAGE	-	10	20	30	33.328	38.332	40	50	53.114	58.119	60	



REVISION 1 2 3	DESCRIPTION ISSUED FOR CLIENT REVIEW ISSUED FOR DEVELOPMENT APPLICATION ISSUED FOR DEVELOPMENT APPLICATION	ISSUED AM AM AM	VER'D	APP'D BL BL BL	DATE 17.07.19 19.12.19 19.06.20		ARCHITECT
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	THE COPYRIGHT (NORTHROP CON



X = 290328.202 Y = 6227785.136 Z = 88.935			2%	2%				-3%	-3%					2%		
DATUM RL 88.0					L									1	\square	
FINISHED SURFACE	89.015	88.997	88.973	88.939	88.939		88.829	88.935		88.829	88.789	88.939	88.939		89.036	88.924
EXISTING SURFACE	88.794	88.815	88.844	88.882	88.882	88.883	88.885	88.901		88.918	88.920	88.921	88.921		88.924	88.924
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030		-3.550	0000		3.550	4.000	4.030	4.180		9.034	9.480

Centreline Data

CHAINAGE 60.000

Centreline Data X = 290325.358 Y = 6227775.549 Z = 89.096 DATUM RL 88.0			2%	2%					-3%				2%
FINISHED SURFACE	89.176	89.158	89.134	89.099	89.099	88.94.9	88.989	89.096	88 8 8 8 8		89 099	000 08	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
EXISTING SURFACE	88.889	88.910	88.921	88.929	88.930	88.930	88.932	88.949	88 965		88 968	88.048	
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	000.0	3 550	7 000	020 7	180	2 2 7 7

CHAINAGE 50.000

Centreline Data X = 290322.515 Y = 6227765.962 Z = 89.256			2%	2%	┣	1-		-3%		-6		2%
DATUM RL 88.0					L	L	_			Ļ		<u> </u>
FINISHED SURFACE	89.336	89.318	89.294	89.260	89.260		89.150	89.256	89.150	89.110	89.260	89.260
EXISTING SURFACE	88.976	89.007	89.026	89.046	89.047	89.048	89.053	£0.93	89.133	89.138	89.138	89.140
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	000.0	3.550	4.000		4.180

CHAINAGE 40.000

Centreline Data X = 290321.528 Y = 6227762.635			2%	2%	_			-3%	-3%		_		2%
Z = 89.312													
DATUM RL 88.0					L								
FINISHED SURFACE	89.392	89.374	89.350	89.315	89.315		89.205	89.312		271.00 271.00	89 315	89.315	
EXISTING SURFACE	89.007	89.038	89.068	89.087	89.089	89.089	89.095	89.135	L	C/1.70	89 180	89.182	
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	0000			020.4	4.180	

CHAINAGE 36.53

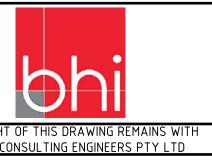
Centreline Data X = 290320.516 Y = 6227759.223 Z = 89.369 DATUM RL 88.0		3%				2%
FINISHED SURFACE	69E.88	6,40 89 9,40	89.222	89.372	89.372	
EXISTING SURFACE	89.194	L7C 68			89.257	
OFFSET	000.0	0 0 0	4.000	4.030	4.180	

DESCRIPTION ISSUED VER'D APP'D DATE CLIENT	ARCHITECT
EW AM BL 17.07.19	
NT APPLICATION AM BL 19.12.19	
NT APPLICATION AM BL 19.06.20	
	UCTION UNLESS THE COPYRIGHT
VERIFICATION SIGNATURE H	
DRAWING NOT TO BE USED FOR C VERIFICATION SIGNATURE H	

88.924
88.924
9.480
89.007
89.000 89.
10.286 89
89.407
8 89.213 0 89.213
11.538
0
89.471
89.270
11.973
30
LE 88
380 89.537
113 89.380 113 89.388
12.418

CHAINAGE 32.971

CROSS SECTION ALONG MC001



ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE



131 SPRINGS ROAD, SPRING FARM

NOT FOR CONSTRUCTION

DRAWING TITLE CIVIL ENGINEERING PACKAGE MASTER PLAN

CROSS SECTIONS - MC001 -SHEET 01

DAC06.11 DRAWING SHEET SIZE = A1

DRAWING NUMBER

JOB NUMBER

181741

REVISION

3

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19		
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20	FAMILY	
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLES	
						VERIFICATION SIGNATURE HAS BEEN ADDED	NORTHROP

	OFFSET	-8.000 -7.100	-5.900	-4.180	-4.030 -4.000 -3.550	0000	3.550 4.000 4.180	7.779 7.872
							CHAINAGE 70	.000
N	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT		ARCHITECT
	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		🛞 ran	
	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19			

entreline Data = 290331.044 = 6227794.724 = 88.775			2%	2%	-			-3%		
ATUM RL 88.0										
INISHED SURFACE	88.855	88.837	88.813	88.778	88.778	88.628	88.668		88.775	
XISTING SURFACE	88.676	88.698	88.722	88.750	88.752	88.753	88.760		88.805	

		2%	2%				-3%	-1.36%				2%	
				L	L						_		
88.681	88.663	88.639	88.605	88.605	88.455	88.495	88.601	88 7 7	88.513	88.663	88.663	88.720	88.644
88.470	88.482	88.498	88.522	88.524	88.524	88.531	88.579	88 622	88.625	88.625	88.626	88.642	88.644
-8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	000.0	۲ ۲ ۲ 0	4.000	4.030	4.180	7.022	7.326
	000 88.470	.000 88.470 88.6 .100 88.482 88.6	000 88.470 88.681 100 88.482 88.663 900 88.498 88.639	88.470 88.681 88.482 88.663 88.498 88.639 88.522 88.605 88.505	88.470 88.681 88.482 88.663 88.498 88.639 88.498 88.639 88.522 88.605 88.524 88.605	88.470 88.681 88.482 88.663 88.498 88.639 88.498 88.639 88.522 88.605 88.524 88.605 88.524 88.455	88.470 88.681 88.470 88.683 88.482 88.663 88.498 88.663 88.498 88.605 88.524 88.605 88.524 88.495 88.531 88.495	8.000 88.470 88.681 7.100 88.498 88.663 7.100 88.498 88.639 5.900 88.498 88.605 4.180 88.522 88.605 4.030 88.524 88.605 4.000 88.524 88.495 3.550 88.531 88.495 0.000 88.579 88.601	0 88.470 88.681 0 88.470 88.663 0 88.482 88.663 0 88.498 88.639 0 88.522 88.605 0 88.522 88.605 0 88.523 88.605 0 88.524 88.605 0 88.5214 88.605 0 88.522 88.601 88.579 88.601 88.579 88.601	8.000 88.470 88.681 7.100 88.470 88.683 7.100 88.498 88.663 7.100 88.498 88.639 5.900 88.498 88.605 4.180 88.522 88.605 4.180 88.524 88.605 4.000 88.524 88.495 3.550 88.531 88.495 3.550 88.531 88.601 000 88.579 88.601 88.579 88.601 88.553 000 88.522 88.553 000 88.622 88.513	0 88.470 88.681 0 88.482 88.663 0 88.498 88.663 0 88.498 88.639 0 88.522 88.605 0 88.524 88.605 0 88.524 88.605 0 88.524 88.605 0 88.524 88.495 0 88.524 88.495 0 88.553 88.601 88.522 88.601 88.553 88.622 88.653 88.553 88.625 88.553 88.553	0 88.470 88.681 0 88.470 88.683 0 88.498 88.663 0 88.498 88.639 0 88.522 88.605 0 88.524 88.605 0 88.524 88.605 0 88.524 88.605 0 88.524 88.605 0 88.51 88.601 88.579 88.601 88.553 88.579 88.601 88.553 88.579 88.601 88.553 88.522 88.663 88.563 88.522 88.663 88.563 88.625 88.563 88.563 88.625 88.663 88.663 88.625 88.663 88.663	0 88.470 88.681 0 88.470 88.681 0 88.470 88.683 0 88.495 88.605 0 88.522 88.605 0 88.524 88.605 0 88.524 88.605 0 88.513 88.605 0 88.513 88.605 88.522 88.605 88.653 88.522 88.605 88.455 0 88.513 88.455 88.523 88.663 88.553 88.622 88.663 88.553 88.625 88.553 88.513 88.625 88.663 88.513 88.625 88.663 88.513 88.625 88.663 88.513

CHAINAGE	83.496

CHAINAGE 80.000

88.668 88.628 88.778 88.778

88.828 88.828 88.828 88.828 88.828

2%

88.850 88.827

88.827 88.827

Centreline Data X = 290333.952 Y = 6227807.893 Z = 88.535			2%	2%				-3%	-0.76%				_2%
DATUM RL 87.0					K		\sim			\perp	L		
FINISHED SURFACE	88.615	88.597	88.573	88.539	88.539		88.429	88.535	אמ ס מ		88.618	88.618	88.675 88.569
EXISTING SURFACE	88.387	88.399	88.415	88.438		88.440	88.446	88.493	88 57.0		88.546	88.548	88.567 88.569
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	0.000	רי הרח א		4.030	4.180	7.000 7.424

с. С	4.0	4.0	4.1	7.0	
CHAINA	٩G	Ε	8	33.500	

Centreline Data X = 290333.953 Y = 6227807.897 Z = 88.535 DATUM RL 87.0			2%	2%				-3%	-0.76%				2%
FINISHED SURFACE	88.615	88.597	88.573	88.539	88.539		88.429	88.535	88.508	88.468	88.618	88.618	88.675 88.569
EXISTING SURFACE	88.387	88.399	88.415	88.438	88.440	88.440	88.446	88.493	88.540	88.546	88.546	88.548	88.567 88.569
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	0000	3.550	4.000	4.030	4.180	7.000

CHAINAGE 90.000

____ ___ ___

_____ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

Centreline Data

Centreline Data X = 290335.013 Y = 6227814.310 Z = 88.405			2%	2%]-			_3%	0.35%			2%		
DATUM RL 87.0					L									
FINISHED SURFACE	88.485	88.467	88.443	88.409	88.409	\sim	88.299	88.405	88.418	88.378	88.528	ഗ	88.584	88.432
EXISTING SURFACE	88.226	88.238	88.254	88.276		88.279		88.332	88.379	88.384	88.385	88.387	88.424	88.432
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030		-3.550	0.000	3.550	4.000	4.030	4.180	7.000	7.608

Centreline Data

87.565	87.547	87.523	87.488	87.488	87.338	87.378	87.485	
87.781	87.766	87.746	87.717	87.714	87.713	87.705	87.638	
.000	7.100	5.900	. 180	+.030	.000	3.550	000	

Centreline Data X = 290322.888 Y = 6227843.919 Z = 87.485									
DATUM RL 85.0					L	L	_		
FINISHED SURFACE	87.565	87.547	87.523	87.488	87.488	87.338	87.378	87.485	
EXISTING SURFACE	87.781	87.766	87.746	87.717	87.714	87.713	87.705	87.638	
OFFSET	- 8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	0000	

Centreline Data X = 290331.684 Y = 6227841.915 Z = 87.705			<u>3.</u> 17 <u>%</u>	<u>3</u> .11 <u>%</u>			1.93%	2.7
DATUM RL 86.0					L			
FINISHED SURFACE	87.843	87.811	87.771	87.716		87.566 87.606	L.L.	
EXISTING SURFACE	87.873	87.863	87.850	87.831	7.82	87.829 87.824	7.75	
OFFSET	-9.668	-8.734	-7.498	-5.728		-5.548 -5.098	000	

X = 290337.418 Y = 6227834.075 Z = 87.946			0.63%	0.7%	7-		%	1.91
DATUM RL 87.0					L		_	
FINISHED SURFACE	87.966	87.964	87.956	87.943	7.94	7.7	<u>68.</u>	
EXISTING SURFACE	87.912	87.917	87.924	87.934	7.9	87.935 010.70	<u>. 95</u>	
OFFSET	-9.647	-8.707	-7.466	-5.689	<u>S</u>	-5.509	<u>cn</u>	

Centreline Data X = 290336.848 Y = 6227825.415 Z = 88.156	_	-	2%	2%	7		-3%	2.28%
DATUM RL 87.0							,	
FINISHED SURFACE	766 88		88.194	88.160	88.160	88.010 88.050	88.156	
EXISTING SURFACE	00	88.029	88.044	88.066	88.067	88.068 88.073	88.118	
OFFSET		-7.100	-5.900	-4.180	-4.030	-4.000 -3.550	0.000	
	1		I					1

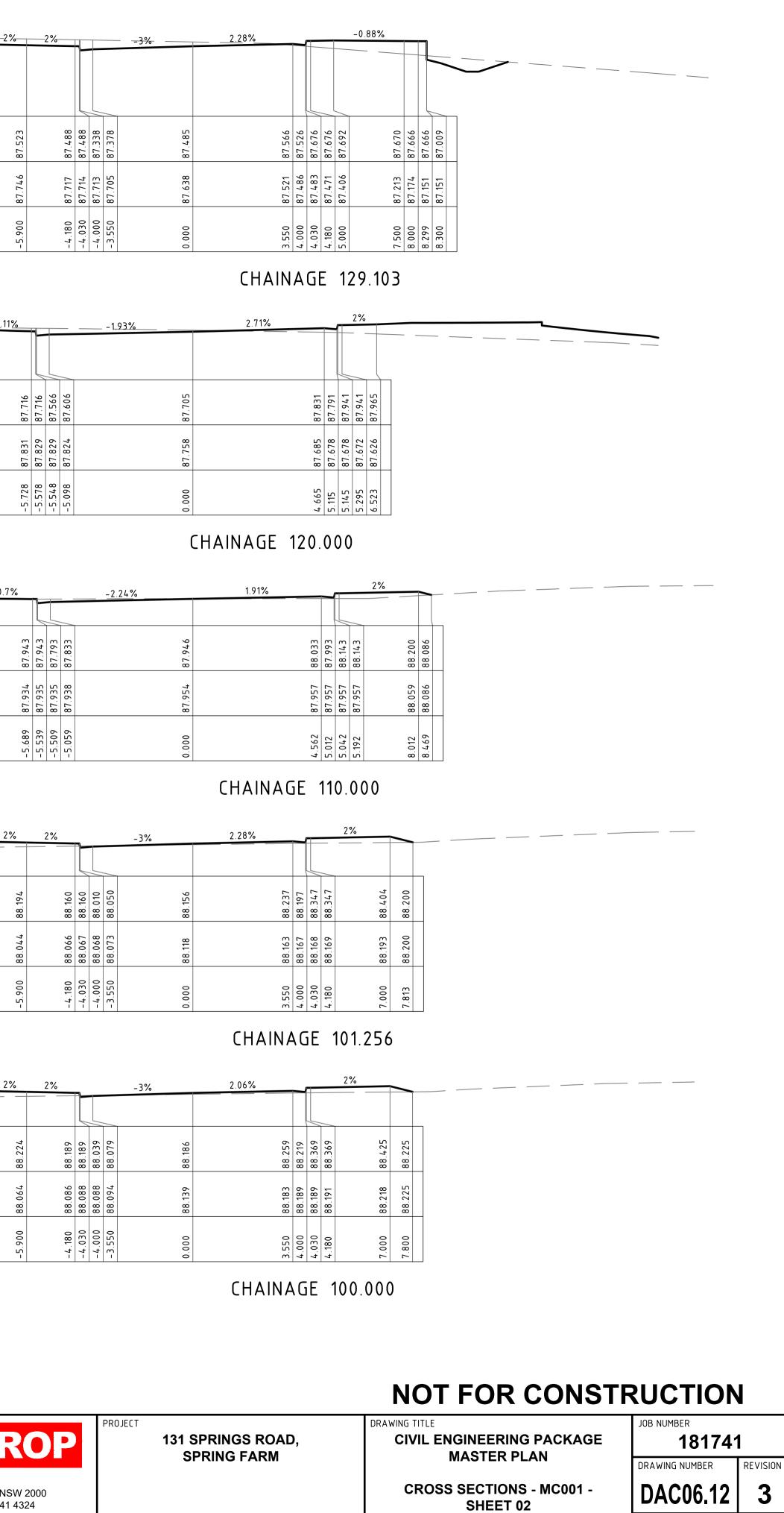
		2%	2%	7-		-3%		2.06%
				L				
88.266	88.248	88.224	88.189	88.189	88.039	01	88.186	
88.038	88.049	88.064	88.086	88.088	88.088	8.0	88.139	
0000	-7.100	-5.900	-4.180	-4.030			0.000	
	000 88.038	000 88.038 88.100 88.049 88.	.000 88.038 88.266 .100 88.049 88.248 .900 88.064 88.224	.000 88.038 88.266 .100 88.049 88.248 .900 88.044 88.248 .100 88.044 88.248 .900 88.044 88.248 .900 88.064 88.224 .900 88.064 88.224 .900 88.064 88.189	.000 88.038 88.266 .000 88.049 88.248 .100 88.049 88.248 .900 88.064 88.224 .900 88.066 88.189 .030 88.086 88.189	.000 88.038 88.266 .000 88.049 88.248 .100 88.049 88.248 .900 88.044 88.248 .100 88.044 88.248 .900 88.045 88.248 .900 88.046 88.248 .900 88.064 88.224 .900 88.086 88.189 .030 88.088 88.189 .030 88.088 88.189	000 88.038 88.266 100 88.049 88.248 900 88.064 88.248 180 88.086 88.189 030 88.088 88.189 030 88.088 88.189 550 88.094 88.039 550 88.094 88.079	8.000 88.266 7.100 88.049 88.266 7.100 88.049 88.248 7.100 88.044 88.244 6.900 88.064 88.224 6.180 88.086 88.189 4.030 88.088 88.189 4.030 88.088 88.189 4.030 88.084 88.189 4.130 88.084 88.189 6.130 88.084 88.189 6.130 88.084 88.189 6.130 88.084 88.189 6.130 88.084 88.189 6.130 88.084 88.189 6.000 88.084 88.189 6.000 88.084 88.189 6.130 88.189 88.189

CROSS SECTION ALONG MC001



LL DIMENSIONS TO BE VERIFIED ON SITE BEFORE Commencing Work. COMMENLING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE





PROJECT

DRAWING SHEET SIZE = A1

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT ARCHITE	СТ
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19		
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20	FAMILY	
							COPYRIGHT
						VERIFICATION SIGNATURE HAS BEEN ADDED NO	ORTHROP C

Centreline Data X = 290312.062 Y = 6227845.162 Z = 87.221 DATUM RL 85.0			2%	2%		-3%	0.41%					2%		
FINISHED SURFACE	87.301	87.283	87.259	87.225	67.075	87.115	87.221	87.236	87.196 87.346	87.346	87.362	87.412 87.422	4	
EXISTING SURFACE	87.603	87.586	87.563	87.530	87.527	87.518	87.451	87.196	87.161 87.158	87.14.6	87.081	86.883 86.839	86.813	86.813
OFFSET	-8.000	-7.100	-5.900		-4.000		0000	3.550	4.000	4.180	5.000	7.500 8.000		

Centreline Data X = 290302.127 Y = 6227846.304 Z = 86.979 DATUM RL 84.0																	
FINISHED SURFACE	87.059	87.041	87.017	86.983	86.983	86.833	86.873	86.979	۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲	86.893	87.043	87.043	87.060	87.110	87.120	87.120	85.788
EXISTING SURFACE	87.367	87.353	87.334	87.307	87.305	87.305	87.298	87.118	86 754	86 714	86.712	86.699	86.627	86.407	86.363	86.337	86.337
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	0.000	بر مح 10	4 000	4.030	4.180	5.000	7.500	8.000	8.299	8.300
									CHAIN	A	G	E	15	0.000			

CHAINAGE 1	160.000
------------	---------

CHAINAGE 140.000

-1.3%

			2%	2%			-3%	-3%		Π-		2%				
Centreline Data X = 290292.192 Y = 6227847.445 Z = 86.738												-				-
FINISHED SURFACE	86.818	86.800	86.776	86.741	86.741	86.591 86.631	86.738	153 A8	86.591	86.741	86.741	86.758	86.808	86.818	8	85.133
EXISTING SURFACE	87.133	87.119	87.100	87.073	87.071	87.070 87.063		8 25 25	301		86.282	86.191	85.921		797	85.797
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000 -3.550	0.000	ט ע ע	4.000	4.030	4.180	5.000	7.500	8.000		8.300

Y = 6227848.586 Z = 86.496																	
DATUM RL 82.0	1				L		_				L					ļ	\sim
FINISHED SURFACE	86.576	86.558	86.534	86.500	86.500	86.350	86.390	86.496	86.390	86.350	86.500	86.500	86.516	86.566	86.576	86.576	84.618
EXISTING SURFACE	86.903	86.889	86.870	86.843	86.841	86.840	86.812	86.444	86.067	86.019	86.016	86.000	85.913	85.266	85.132	85.051	85.051
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	0000	3.550	4.000	4.030	4.180	5.000	7.500	8.000	8.299	8.300

Centreline Data X = 290282.258 Y = 6227848.586

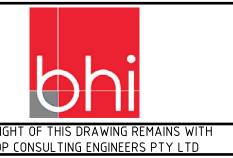
CHAINAGE 170.000

2%

-3%



CROSS SECTION ALONG MC001



PRINGS ROAD, RING FARM

PROJECT	
	131 SPF
	SPR

hi	

			2%	2%			3%	-3%	
Centreline Data X = 290272.323 Y = 6227849.727 Z = 86.254									
DATUM RL 82.0							<u></u>		
FINISHED SURFACE	86.334	86.316	86.292	86.258	86.258	86.108 86.11.8	86 254		86.148 86.108
EXISTING SURFACE	86.658	86.655	86.643	86.602	86.587	86.583 86.538	86 176		85.710 85.588
OFFSET	8.000	7.100	5.900	4 .180	4.030	4.000 3.550	000		550

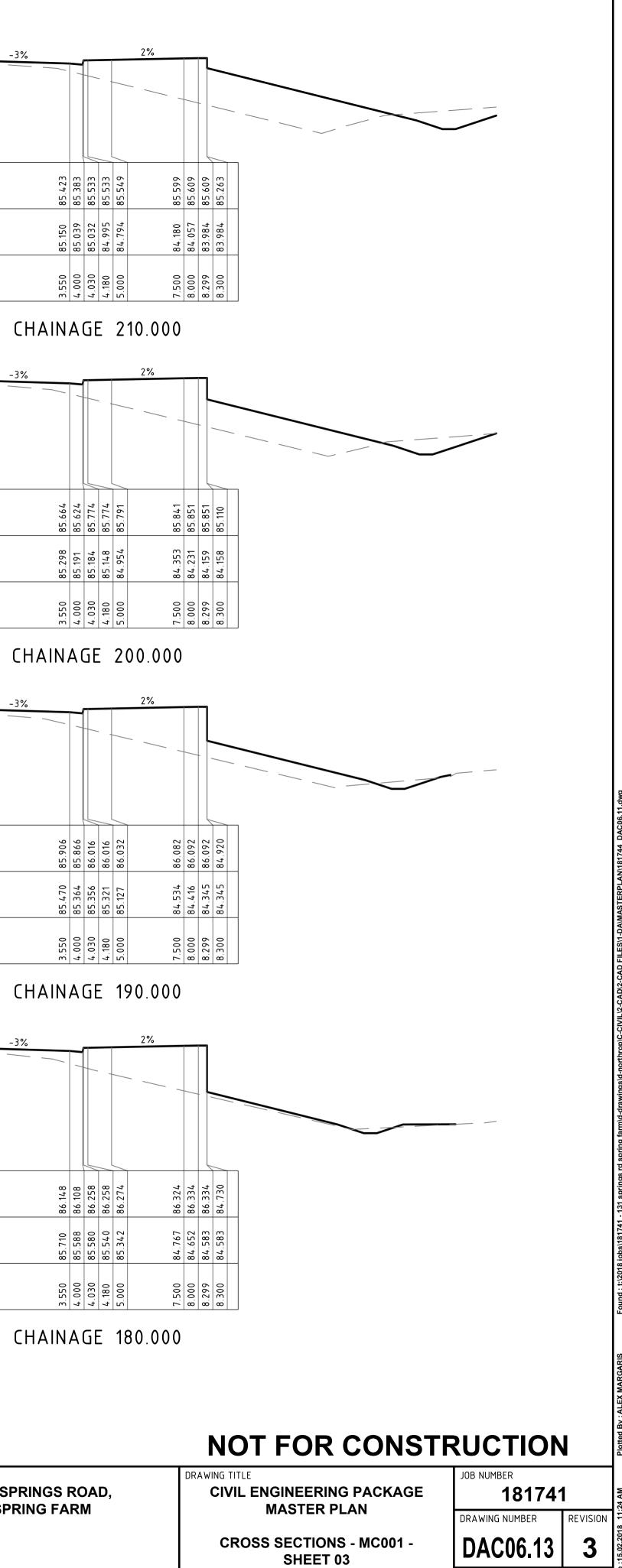
NORTHRO

Sydney

			-2%-	2%			3%	-3%	
Centreline Data X = 290262.388 Y = 6227850.868 Z = 86.013									
DATUM RL 82.0					K	<u> </u>	1		
FINISHED SURFACE	86.092	86.074	86.050	86.016	86.016	85.866 85.906	86.013		85.906 of of c
EXISTING SURFACE	86.317	86.318	86.318	86.319	86.311	86.307 86.262	85,905		85.470 of 22.4
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000 -3.550	0000		3.550

			2%	2%				-3%	
Centreline Data X = 290252.454 Y = 6227852.010 Z = 85.771 DATUM RL 82.0									
FINISHED SURFACE	85.851	85.833	85.809	85.774		85.624 85.664	85.771		85.664 85.624
EXISTING SURFACE	86.005	86.005	86.005	86.005	6.00	86.005 85.991	85.691		85.298 85.191
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000 -3.550	000.0		3.550 4.000

			2%	<u> </u>				-3%	
Centreline Data X = 290242.519 Y = 6227853.151 Z = 85.529 DATUM RL 82.0									
FINISHED SURFACE	85.609	85.591	85.567	85.533	<u>C</u>	85.383 85.423	85.529	85.423	85,383
EXISTING SURFACE	85.758	85.764	85.771	85.782	18	85.783 85.786	85.491	85.150	85.039
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000 -3.550	00000	3.550	4 000



DRAWING SHEET SIZE = A1

			2%	<u> 2% </u>			_	-3%	-3%						2%				
Centreline Data X = 290202.780 Y = 6227857.716 Z = 84.562 DATUM RL 81.0																			
FINISHED SURFACE	84.642	84.624	84.600	84.566	84.566	84.416	84.456	84.562		84.456	84.416	84.566	84.566	84.582	84.632	84.642	84.642	83.985	
EXISTING SURFACE	84.667	84.670	84.675	84.682	84.683	84.683	84.668	84.391		84.158	84.128	84.121	84.086	83.897	83.320	83.211	83.14.6	83.14.6	
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	0.00.0		3.550	4.000	4.030	4.180	5.000	7.500	8.000	8.299	8.300	

CHAINAGE 250.000

				2%	2%				3%	-3%	6		1		2%	, >	<u> </u>		
Centreline Data X = 290212.715 Y = 6227856.575 Z = 84.804																			
DATUM RL 82.0						L	Ļ	_					L					Ļ	<u> </u>
FINISHED SURF	ACE	84.884	84.866	84.842	708 78	84,807	84.657	84.697	84.804		84.697	84.657	84.807	84.807	84.824	84.874	84.884	84.884	84.468
EXISTING SURF	ACE	84.884	84.885	84.886	008.78	84,891	84.891	84.894	84.713		84.513	84.433	84.426	84.392	84.202	83.625	83.510	83.441	83.441
OFFSET		-8.000	-7.100	-5.900	/ 180 /	-4.030	-4.000	-3.550	0.000		3.550	4.000	4.030	4.180	5.000	7.500	8.000	8.299	8.300

CHAINAGE 240.000

			2%	2%		1-			-3%						2%		_	
Centreline Data X = 290222.650 Y = 6227855.433 Z = 85.046																		
DATUM RL 82.0						L	_									$ \square $	4	
FINISHED SURFACE	85.126	85.108	85.084	85.049	85.049	84.899	84.939	85.046		84.939	84.899	85.049	85.049	85.066	85.116	85.126	85.126	84.898
EXISTING SURFACE	85.207	85.213	85.221	85.232	85.233	85.234	85.237	85.065		84.843	84.739	84.732	84.697	84.508	83.887	83.762	83.687	83.687
OFFSET	-8.000	-7.100	-5.900	-4.180		-4.000	-3.550	00000		3.550	4.000	4.030	4.180	5.000	7.500			8.300

CHAINAGE 230.000

			-2%-						-3%					2%	<u> </u>	- L	
Centreline Data X = 290232.584 Y = 6227854.292 Z = 85.287															,	•	
DATUM RL 82.0							\geq	I				\rightarrow				F	
FINISHED SURFACE	85.367	85.349	85.325	0C 301	85.291	85.141	85.181	85.287		85.181	85.14.1	162.C0 85 201	85.307	85.357	85.367	85.367	85.176
EXISTING SURFACE	85.536	85.542	85.549	OF FZD	85.561	85.561	85.564	85.337		85.032	84.922 64.645	CI 7.40	84.676	84.054	83.928	83.852	83.852
OFFSET	-8.000	-7.100	-5.900	00	-4.030	-4.000	-3.550	000.0		3.550	4.000	4.USU 180	5.000	7.500	8.000	8.299	8.300

CHAINAGE 220.000

REVISION 1	DESCRIPTION ISSUED FOR CLIENT REVIEW	ISSUED AM	VER'D	APP'D BL	DATE 17.07.19		ARCHITECT
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19	m (B) ran	
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20	FAMILY	
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	THE COPYRIGHT (NORTHROP CON

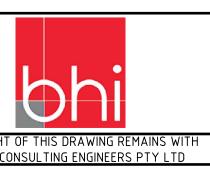
			2%	2%			3%	-3%
Centreline Data X = 290163.042 Y = 6227862.281 Z = 83.595								
DATUM RL 81.0	1				L			
FINISHED SURFACE	83.675	83.657	83.633	83.599	3.59	83.449 83.489	3.59	83.489 83.469
EXISTING SURFACE	83.634	83.643	83.655	83.667	3.66	83.668 83.670		
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000		

			2%	2%			-3%	-3%	
Centreline Data X = 290172.976 Y = 6227861.139 Z = 83.837 DATUM RL 81.0									
FINISHED SURFACE	3.917	3.899	3.875	3.841	3.84	3.731	3.837	רכע כ	83.691
EXISTING SURFACE	83.886	83.880 8	83.871 8	83.859	3.858	83.858 8 83.855 8	83.830	ų	374
OFFSET	-8.000	-7.100	-5.900	-4.180		-4.000 -3.550	0000	ברט ברט	000.4

			2%	2%			_	3%	-3%	
Centreline Data X = 290182.911 Y = 6227859.998 Z = 84.079 DATUM RL 81.0										
FINISHED SURFACE	84.159	84.141	84.117	84 _. 082	84.082	83.932	83.972	84.079	83 972	
EXISTING SURFACE	84.183	84.178	84.171	84.160	84.159	84.159	84.156	84.030	83 691	83.632
OFFSET	-8.000	- 7.100	-5.900	-4.180	-4.030	-4.000	-3.550	000.0	د ۲50	4.000

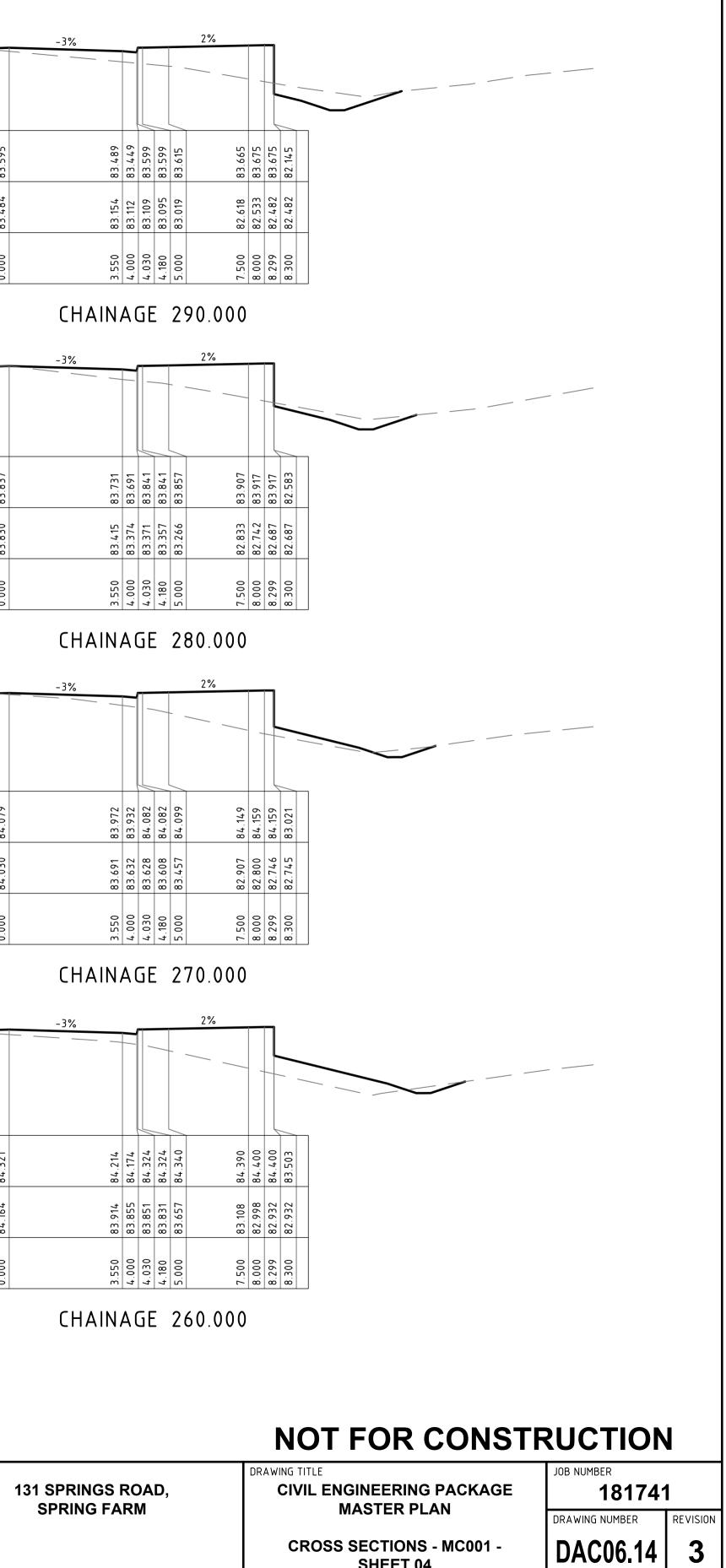
			2%	2%		Ţ	-3%	-3%
Centreline Data X = 290192.846 Y = 6227858.857 Z = 84.321 DATUM RL 81.0								
FINISHED SURFACE	84.400	84.382	84.358	84.324	84.324	84.174 84.214	84.321	84.214
EXISTING SURFACE	84.473	84.477	84.482	84.481	84.469	84.467 84.431	84.164	83.914
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000 -3.550	000.0	3.550

CROSS SECTION ALONG MC001



ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE





DRAWING SHEET SIZE = A1

SHEET 04

				2%	2%	_			-3%	-3%						2%				
Centreline Data X = 290123.303 Y = 6227866.845 Z = 82.628																	-			
DATUM RL 80.0						L	L	_							\geq		\perp	ļ	\sim	<u> </u>
FINISHED	SURFACE	82.708	82.690	82.666	82.632	82.632	82.482	82.522	82.628		82.522	82.482	82.632	82.632	82.648	82.698	82.708	82.708		
EXISTING	SURFACE	82.636	82.624	82.603	82.573	82.571	82.570	82.562	82.500		82.261	82.227	82.225	82.214	82.153	81.926	81.864	81.827	81.827	
OFFSET		-8.000	-7.100	-5.900	-4.180	-4.030		-3.550	0.000		3.550	4.000	4.030	4.180	5.000	7.500	8.000	8.299	8.300	

CHAINAGE 330.000

				2%	2%	-3%		-3%		2%									
Centreline Data X = 290133.238 Y = 6227865.704 Z = 82.870												-		-					
DATUM RL 80.0						K		_				L	\sim		1	\vdash	Ļ	\sum	1
FINISHED	SURFACE	82.950	82.932	82.908	82.874	82.874	82.724 82.761	+0/.70	82.870	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	82 774	82.874	82.874	82.890	82.940	82.950	82.950	81.434	
EXISTING	SURFACE	82.612	82.596	82.575	82.545	82.542	82.542 82.542	t	82.472	83 / DQ		82.401	82.398	82.384	82.160	82.085	82.041	82.041	
OFFSET		-8.000	-7.100	-5.900	-4.180	-4.030	-4.000		0.00.0	ר ה ה	000 7	4.030	4.180	5.000	7.500		8.299	8.300	

CHAINAGE 320.000

		,	2%	2%	-3%		-3%	-3%		2%							
Centreline Data X = 290143.172 Y = 6227864.563 Z = 83.112 DATUM RL 80.0													-				
FINISHED SURFACE	83.192	83.174	83.150	83.115	83.115	82.965	83.005	83.112	83,005	82.965	83.115	83.115	83.132	83.182	83.192	83.192	81.533
EXISTING SURFACE	83.005	83.008	83.012	83.018	83.019	83.019	83.012	82.953	82.752	82.708	82.705	82.691	82.610	82.308	82.238	82.197	82.197
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	0000	3.550	4.000	4.030	4.180	5.000	7.500	8.000	8.299	8.300

CHAINAGE 310.000

		2%	2%	-3%	-3%	2%	_
Centreline Data X = 290153.107 Y = 6227863.422 Z = 83.354 DATUM RL 80.0							
FINISHED SURFACE	83.434	· m	83.357 83.357 83.207 83.247	83.354	83.247 83.207	83.357 83.357 83.374 83.374 83.424 83.434	83.434
EXISTING SURFACE	83.304	83.316	83.325 83.326 83.326 83.329	83.281	82.912 82.866	82.863 82.847 82.762 82.439 82.439 82.369	
OFFSET	-8.000	-5.900	-4.180 -4.030 -4.000 -3.550	0.000	3.550 4.000	4.030 4.180 5.000 7.500 8.000	8.299

CHAINAGE 300.000

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19		
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20	FAMILY	
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS	THE COPYRIGHT
						VERIFICATION SIGNATURE HAS BEEN ADDED	NORTHROP CO

Centreline Data X = 290074.320 Y = 6227872.472 Z = 81.689 DATUM RL 80.0			_ 2 <u>%</u>	2%			3%	-3%
FINISHED SURFACE	81.769	81.751	81.727	81.693	69	81.543 81.583	81.689	81.583
EXISTING SURFACE	81.834	81.823	81.809	81.788	81.787	81.786 81.781	81.628	81.482
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000 -3.550	000.0	3.550

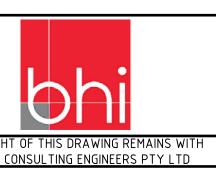
Centreline Data X = 290083.564 Y = 6227871.410 Z = 81.822 DATUM RL 80.0			2%	2%			3%	3%	
FINISHED SURFACE	81.902	81.884	81.860	81.825	28	c/0.10 81.715	81.822	81 715	
EXISTING SURFACE	81.884	81.890	81.899	81.912	12 2	61.916 81.916	81.942	81820	
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000 -3.550	0000	۲ ۲ ۲	, ,

Centreline Data X = 290093.499 Y = 6227870.269 Z = 81.982 DATUM RL 80.0			2%	2%			-3%	-3%	
FINISHED SURFACE	82.062	82.044	82.020	81.986	81.986	81.836 81.876	81.982	81.876	75818
EXISTING SURFACE	81.961	81.961	81.961	81.961	81.961	81.961 81.961	81.961	81.857	01 0 2 0
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000 -3.550	000.0	3.550	

Centreline Data X = 290103.434 Y = 6227869.128 Z = 82.171 DATUM RL 80.0			2%	2%			3%	-3%	
FINISHED SURFACE	82.251	82.233	82.209	82.175	82.175	82.025 82.065	2.17	82.065	82 075
EXISTING SURFACE	82.153	82.158	82.166	82.178	2.17	82.179 82.182	2.20	81.804	81772
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000 -3.550	0	3.550	1. 000

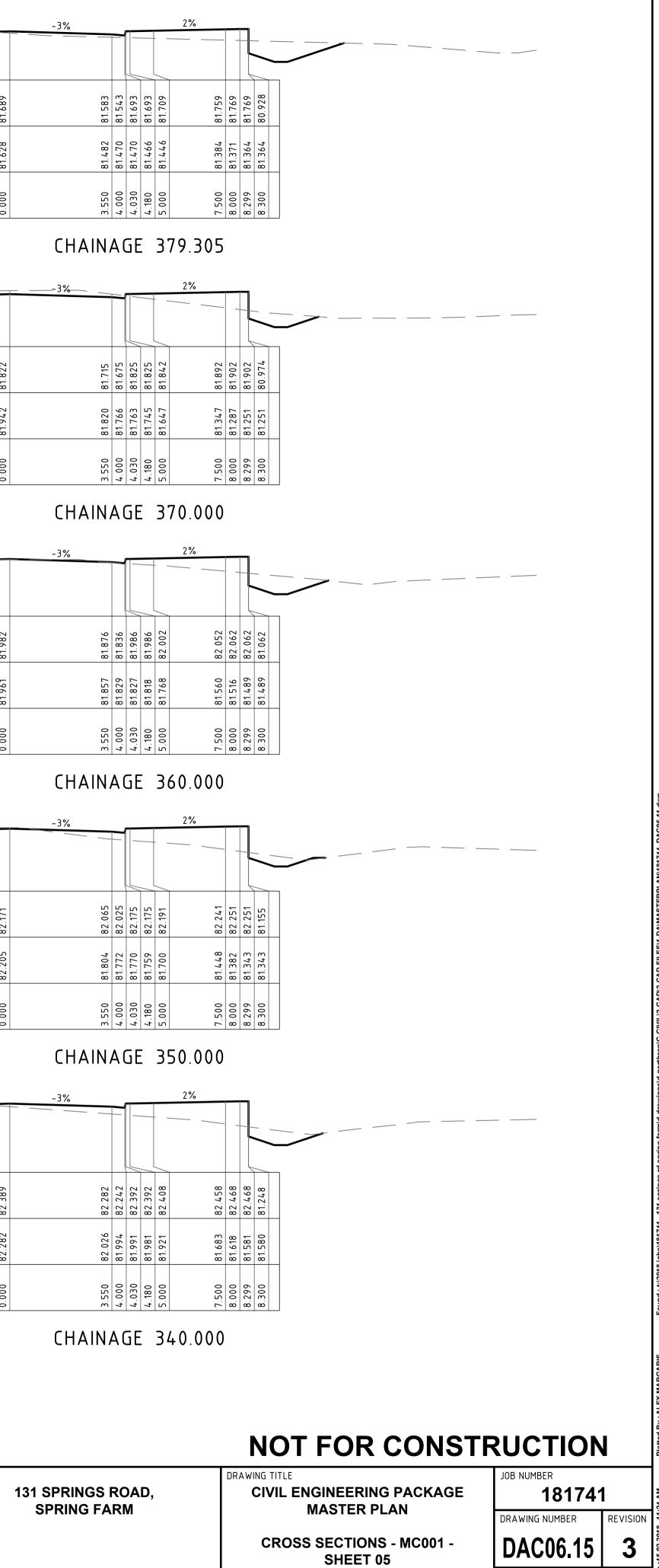
			2%	2%			-3%	-3%	
Centreline Data X = 290113.368 Y = 6227867.987 Z = 82.389									
DATUM RL 80.0					L				
FINISHED SURFACE	82.468	82.450	82.426	82.392	2.39	82.242 82.282	82.389	87 787	
EXISTING SURFACE	82.428	82.434	82.442	82.453		82.454 82.457	82.282	82 N76	02.U20 81996
OFFSET	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000 -3.550	000.0	2 2 2 2	000 7

CROSS SECTION ALONG MC001



LL DIMENSIONS TO BE VERIFIED ON SITE BEFORE Commencing Work. COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE





DRAWING SHEET SIZE = A1

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19		
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20	FAMILY	
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS	
						VERIFICATION SIGNATURE HAS BEEN ADDED	NORTHROP C

DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
NT REVIEW	AM		BL	17.07.19		
ELOPMENT APPLICATION	AM		BL	19.12.19	m 🚱 ran	

			CHAI	NA	GE	390.00	00		
Centreline Data X = 290067.546 Y = 6227873.250 Z = 81.592		3%	-3%		_	2%			
DATUM RL 80.0						1	\square	L	
FINISHED SURFACE	81.486	81.592	81.486	81.446 81.596	81.596 81.612	81.662	81.672	81.672	80.894
EXISTING SURFACE	81.487	81.482	81.475	81.474 81.474	1 - 1	81.353	81.309	81.283	81.283
OFFSET	-3.550	0.000	3.550	4.000 4.030	4.180 5.000	7.500	8.000	•	8.300

Y = 6227873.693 Z = 81.537						
DATUM RL 80.0						
FINISHED SURFACE	81.4.31	81.537			81.541 81.557	
EXISTING SURFACE	81.436	81.437	- +	t- t	81.439 81.440	
OFFSET	- 3.550	0000	3.550	· I · I	4.180 5.000	

DATUM RL 80.0						>	\leq	
FINISHED SURFACE	81.315	81.4.08	81.395	81.288	81.248 01 200	81.398 81.398	81.415	
EXISTING SURFACE	81.367	81.298	81.298	81.299	81.299 e1 200	81.299 81.299	81.299	
OFFSET	-3.550	-0.446	0.000	3.550	000.4	4.030 4.180	5.000	
				CHAII	NA	١G	E	400.000
Centreline Data X = 290063.695 Y = 6227873.693 Z = 81.537		-3%		-3%				·

EXISTING SURFAC	B1.480	81.480	81.470	81.425	81.361	81.329	81.322	81.244	81.343	81.327	81.233	81.247	81.245		81.197	81.061	
OFFSET	-8.116	-8.000	-7.100	-5.900	-4.180	-4.030	-4.000	-3.550	-0.675	0.000	3.550	4.000	4.030	4.180	5.000	7.702	
Centreline Data											CHAINA	GI	Ξ	4	01	4.505	
X = 290053.760 Y = 6227874.834					_		_		-3%	-	-3%						
Z = 81.395																	
DATUM RL 80.0															_		

											CHAINA	G	E	L	۰0	5.005	
Centreline Data				2%	2%	71-	-		-3%		-3%		-			<u>1 in-3</u> —	
X = 290049.281 Y = 6227875.313 Z = 81.331																	
DATUM RL 79.0	1	L				L	Ļ						L	\geq			-
FINISHED SURFACE	81.480	81.451	81.433	81.409	81.375	81.375	81.225	81.265	81.351	81.331	81.224	81.184	81334	81 334	81.351	80.450	
EXISTING SURFACE	81.480	81.480	81.470	81.425	81.361	81.329	81.322	81.244	81.343	81.327	81.233	81.247	81245	81 238	81.197	81.061	
																	1

Centreline Data X = 290048.784 Y = 6227875.363 Z = 81.324 DATUM RL 79.0		_2%_				_3%		-3%					1 in -3
FINISHED SURFACE	81.481 81.446 81.428	81.404	81.369	81.369 81.219	81.259	81.345	81.324	81.217	81.177	81.327	81.327	81.344	80.450
EXISTING SURFACE	81.481 81.482 81.474	81.430	81.270	81.256 81.253	81.255	81.343	81.324	81.228	81.252	81.255	81.272	81.255	81.120
OFFSET	-8.140 -8.000 -7.100	-5.900	-4.180	-4.030	-3.550	-0.700	0.000	3.550	4.000	4.030	4.180	5.000	7.681



CHAINAGE 386.124

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131 SPRINGS ROAD, SPRING FARM

CROSS SECTION ALONG MC001

CHAINAGE 405.822

PROJECT

Centreline Data X = 290047.970 Y = 6227875.446 Z = 81.312		-3%					<u>1 in -3</u>
DATUM RL 79.0			L			_	
FINISHED SURFACE	81.312	81.206	81.166	81.316 22.22	81.316 81 227	91.332	80.450
EXISTING SURFACE	81.312	81.217	81.355	81.356 21251	81.354 51.51	01.343	81.132
OFFSET	0.00.0	3.550	4.000	4.030	4.180 5.000	000.0	7.646

NOT FOR CONSTRUCTION DRAWING TITLE

CIVIL ENGINEERING PACKAGE MASTER PLAN

CROSS SECTIONS - MC001 -SHEET 06

JOB NUMBER 181741 DRAWING NUMBER REVISION DAC06.16 3 DRAWING SHEET SIZE = A1

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19		
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20	FAMILY	
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	THE COPYRIGH NORTHROP (

CHAINAGE 17.560

Centreline Data X = 290059.678 Y = 6227856.498 Z = 81.719 DATUM RL 80.0			2%					-3%	
FINISHED SURFACE	81.794	81.776	81.752	81.738	81.738	81.588	81.628	81.719	
EXISTING SURFACE	81.650	81.630	81.603	81.587	81.584	81.583	81.573	81.489	
OFFSET	-6.500	-5.600	-4.400	-3.680	-3.530	-3.500	-3.050	0.000	

Centreline Data X = 290059.507 Y = 6227855.444 Z = 81.734DATUM RL 80.0 81.643 81.603 81.753 81.753 81.779 81.767 81.753 81.753 81.603 81.643 FINISHED SURFACE 81.436 81.809 81.791 81.829 81.734 81.467 81.470 81.470 81.471 81.471 81.469 81.447 81.436 EXISTING SURFACE 81.619 81.603 81.599 81.599 81.588 81.666 81.646 81.499 -6.500 -5.600 -4.400 -3.680 -3.530 -3.500 -3.050 OFFSET 7.500 8.680 3.050 3.500 3.530 3.680 5.000 0.000

-3%

CHAINAGE 20.000

CHAINAGE 18.628

-3%

2%

2%

`		2%					-3%	-3%			2%	, 	2%		<u>1 in -3</u>	
				L		_					\rightarrow					-
81.827	81.809	81.785	81.770	81.770	81.620	81.660	81.752		81.66U	81.770	81.770	81.797		81.847	81.440	
81.687	81.666	81.637	81.620	81.616	81.615	81.605	81.532		81.474	81.470	81.469	81.458		4	81.440	
-6.500	-5.600	-4.400	-3.680	-3.530	-3.500	-3.050	0.00.0					5.000			8.719	
	500 81.687 8	.500 81.687 .600 81.666	500 81.687 81.827 .500 81.667 81.827 .600 81.666 81.809 .400 81.637 81.785	500 81.687 81.827 .600 81.666 81.809 .400 81.637 81.785 .400 81.620 81.770	81.687 81.827 81.687 81.827 81.666 81.809 81.666 81.809 81.637 81.785 81.620 81.770 81.616 81.770	81.687 81.827 81.666 81.809 81.666 81.809 81.657 81.785 81.637 81.785 81.620 81.770 81.616 81.770 81.615 81.620	500 81.687 81.827 .500 81.687 81.827 .600 81.666 81.809 .400 81.656 81.809 .400 81.637 81.785 .500 81.620 81.770 .530 81.616 81.770 .500 81.615 81.620 .500 81.615 81.660	6.500 81.687 81.827 5.600 81.666 81.809 5.600 81.656 81.809 3.680 81.637 81.785 3.680 81.620 81.770 3.530 81.616 81.770 3.500 81.615 81.620 3.050 81.615 81.620 3.050 81.615 81.620 3.050 81.532 81.752 81.752	6.500 81.687 81.827 6.500 81.687 81.827 5.600 81.666 81.809 5.600 81.637 81.785 4.400 81.637 81.785 3.580 81.615 81.770 3.530 81.615 81.770 3.550 81.615 81.615 3.550 81.615 81.615 3.550 81.615 81.610 3.550 81.615 81.615 3.550 81.615 81.615 3.550 81.615 81.615 3.550 81.615 81.615 3.550 81.615 81.615 3.550 81.615 81.615 3.550 81.615 81.650 3.550 81.650 3.550 81.650 3.550 81.650 3.550 81.650 3.550 81.650 3.550 81.650 3.550 81.650 3.550 81.552 3.550 81.550 3.550 81.550 3.550 81.550 3.550 81.550 3.	6.500 81.687 81.827 6.500 81.687 81.827 5.600 81.666 81.809 5.600 81.637 81.785 3.680 81.616 81.770 3.530 81.616 81.770 3.500 81.615 81.620 3.050 81.615 81.660 3.050 81.615 81.660 81.532 81.752 000 81.532 81.752 000 81.532 81.752 81.752 000 81.474 81.660	6.500 81.687 81.827 6.500 81.666 81.809 5.600 81.656 81.809 4.400 81.637 81.785 3.580 81.616 81.770 3.530 81.616 81.770 3.530 81.615 81.620 3.530 81.615 81.660 3.530 81.615 81.660 3.530 81.672 81.660 3.1572 81.770 3.1770 81.474 81.660 500 81.474 81.660 51.470 81.470 81.770 51.470 81.770 81	6.500 81.687 81.827 6.500 81.666 81.809 5.600 81.666 81.809 5.600 81.666 81.770 3.680 81.615 81.770 3.530 81.616 81.770 3.530 81.615 81.620 3.5500 81.615 81.620 3.5500 81.615 81.620 3.5500 81.615 81.620 3.050 81.615 81.620 3.151 81.620 81.770 3.050 81.615 81.660 3.152 81.752 81.752 000 81.532 81.752 050 81.474 81.660 050 81.471 81.620 530 81.470 81.770 530 81.470 81.770	6.500 81.687 81.827 6.500 81.666 81.809 5.600 81.666 81.809 6.4.400 81.616 81.770 3.680 81.620 81.770 3.530 81.616 81.770 3.530 81.615 81.770 3.530 81.616 81.770 3.530 81.615 81.620 3.530 81.615 81.620 3.530 81.615 81.620 3.530 81.615 81.620 3.510 81.615 81.620 3.510 81.615 81.620 3.050 81.615 81.620 3.050 81.615 81.752 000 81.532 81.752 000 81.474 81.660 5130 81.470 81.770 680 81.478 81.770 680 81.469 81.770	6.500 81.687 81.827 5.600 81.687 81.827 4.400 81.656 81.809 3.530 81.616 81.770 3.530 81.616 81.770 3.530 81.615 81.620 3.530 81.615 81.660 3.500 81.615 81.660 81.615 81.660 81.616 81.770 3.050 81.474 81.660 81.471 81.620 81.471 81.620 81.470 81.770 680 81.478 81.770 5.000 81.478 81.770 681.469 81.770 680 81.458 81.797 681.458 81.797	6.500 81.687 81.827 5.600 81.687 81.827 5.600 81.666 81.809 4.400 81.666 81.770 3.680 81.620 81.770 3.530 81.616 81.770 3.530 81.616 81.770 3.500 81.615 81.770 3.500 81.615 81.620 3.510 81.616 81.770 3.500 81.615 81.620 3.510 81.616 81.770 3.510 81.616 81.770 3.510 81.616 81.770 3.510 81.471 81.620 51.474 81.620 81.770 530 81.476 81.770 680 81.476 81.770 680 81.458 81.770 680 81.458 81.770 680 81.458 81.770 680 81.458 81.770 680 81.446 81.847	6.500 81.687 81.827 5.600 81.686 81.809 5.600 81.666 81.809 4.400 81.656 81.770 3.530 81.616 81.770 3.530 81.616 81.770 3.530 81.616 81.770 3.530 81.616 81.770 3.530 81.616 81.770 3.530 81.616 81.770 3.530 81.616 81.770 3.530 81.615 81.660 3.500 81.616 81.770 3.500 81.615 81.620 3.050 81.647 81.660 660 81.471 81.660 6147 81.620 81.770 600 81.447 81.770 6145 81.770 81.770 6145 81.447 81.770 6145 81.440 81.447 61446 81.847 81.797 61440 81.440 81.440

2%

CHAINAGE 30.000

Centreline Data X = 290057.687 Y = 6227844.218	[2%			1 _		-3%	-3%		-		2%		2%	$\frac{1}{1}$ in	.3
Z = 81.801													_				
DATUM RL 80.0					R	5						4		\rightarrow			
FINISHED SURFACE	81.876	81.858	81.834	81.820	81.820	81.670	81.710	81.801		81.710	81.670	81.820	81.820	81.846	81.896		81.391
EXISTING SURFACE	81.533	81.508	81.474	81.454		81.449	- t	81.353		81.283	81.275	81.275	81.273	81.283	81.350		81.391
OFFSET	-6.500	-5.600	-4.400	-3.680	-3.530	-3.500	020.6-	0.00.0		3.050	3.500	3.530	3.680	5.000	7.500	1	9.016

CHAINAGE 40.000

Centreline Data X = 290056.087 Y = 6227834.347 Z = 81.726			2%				-3%		-3%	+		29	<u> </u>	2%	<u>1 in -3</u>	_
DATUM RL 80.0					Ĺ		_				L					
FINISHED SURFACE	81.801	81.783	81.759	81.744	81.744	81.594 81 6 3 6		81.726		81.634	81.594 11710	01.744 81.744	81.771	81.821	81.150	
EXISTING SURFACE	81.340	81.315	81.281	81.261	81.257	81.257 81.2.7		81.179		81.111	81.098 01.007	81.092	81.066	81.097	81.150	
OFFSET	-6.500	-5.600	-4.400	-3.680	-3.530	-3.500		0.000		3.050	3.500 063 c	3.680	5.000	7.500	9.513	

Centreline Data X = 290040.001 Y = 6227806.371 Z = 81.336			2%					-3%	-3%		477			2%
DATUM RL 80.0					L									
FINISHED SURFACE	81.411	81.393	81.369	81.354	81.354	81.204	81.244	81.336		81.244	81.354	81.354	81.363	81.413
EXISTING SURFACE	81.230	81.279	81.342	81.338	81.301	81.294	81.238	81.323		01.220 81278	81.378	81.379	81.381	81.477
OFFSET	-6.500	-5.600	-4.400	-3.680	-3.530	-3.500	-3.050	0000		0005 E	3.530	3.680	4.100	6.600

Centreline Data X = 290047.981 Y = 6227806.480 Z = 81.419			2.03%			1-		-1.99%	-1.97%	_	-				2.5%
DATUM RL 80.0					L		_							_	
FINISHED SURFACE	81.501	81.483	81.458	81.443	44	<u></u>	81.333	81.419		81.332	81.292	1.44	81.442	81.462	81.527
EXISTING SURFACE	81.250	81.248	81.245	24	81.243	81.243	81.243	81.244		81.278	81.285 61.202	81.286	81.288	81.301	81.392
OFFSET	-7.789	-6.885	-5.679	-4.949	-4.799	<u> </u>	-4.319	0.00.0		4.438		4.918	5.068	5.918	8.504

Centreline Data X = 290052.888 Y = 6227814.604 Z = 81.521 DATUM RL 80.0	[2%					-3%	-2.96%		1	.62	%	1.44%
FINISHED SURFACE	81.596	81.578	81.554	81.540	81.540	81.390	81.430	81.521	81.428	81.388	81.538	81.538	81.558	81.594
EXISTING SURFACE	81.153	81.163	81.177	81.186	81.187	18	81.193	81.228	81.265	81.270	81.271	81.272	29	81.356
OFFSET	-6.500	-5.600	-4.400	-3.680	-3.530	-3.500	-3.050	0.00.0	3.152	3.602	3.632	3.782	5.017	7.527

CHAINAGE	60 000

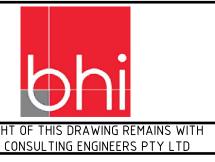
CHAINAGE 78.131

CHAINAGE 70.000

Centreline Data X = 290053.097 Y = 6227815.898 Z = 81.535 DATUM RL 80.0	=		2%					-3%	-3%			2%	<u></u>	2%		
FINISHED SURFACE	81.610	81.592	81.568	81.553	81.553	81.403	81.443	81.535	81.443	81.403	81.553	81.553	81.580	81.630	81.357	
EXISTING SURFACE	81.108	81.130	81.144	81.152	81.154	81.154	81.160	81.195	81.230	81.237	81.238	81.242	81.280	81.340	81.357	
OFFSET	-6.500	-5.600	-4.400	-3.680	-3.530	-3.500	-3.050	000.0	3.050	3.500	3.530	3.680	5.000	7.500	8.317	

Centreline Data X = 290054.487 Y = 6227824.476 Z = 81.623 DATUM RL 80.0			2%					-3%	-3%			2%		2%	<u>1 in -3</u>	
FINISHED SURFACE	81.698	81.680	81.656	81.642	81.642	81.492	81.532	81.623	81.532	81.492	81.642	81.642	81.668	81.718	81.254	
EXISTING SURFACE	81.071	81.048	81.018	80.995	80.990	80.989	80.974	81.037	81.125	81.138	81.138	81.14.3	81.181	81.240	81.254	
OFFSET	- 6.500	-5.600	-4.400	-3.680	-3.530	-3.500	-3.050	0.00.0	3.050	3.500	3.530	3.680	5.000	7.500	8.894	

CROSS SECTION ALONG MC002



All dimensions to be verified on site before commencing work. COMMENLING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE

CHAINAGE 58.690

CHAINAGE 50.000



NOT FOR CONSTRUCTION

131 SPRINGS ROAD, SPRING FARM

DRAWING TITLE CIVIL ENGINEERING PACKAGE MASTER PLAN

> **CROSS SECTIONS - MC002 -**SHEET 01

DRAWING NUMBER DAC06.17 DRAWING SHEET SIZE = A1

JOB NUMBER

181741

REVISION

3

REVISION DESCRIPTION ISSUED VER'D APP'D DATE CLIENT 1 ISSUED FOR CLIENT REVIEW AM BL 17.07.19 Image: Comparison of the compa	DRAWN							
2 ISSUED FOR DEVELOPMENT APPLICATION AM BL 19.12.19 3 ISSUED FOR DEVELOPMENT APPLICATION AM BL 19.06.20 - - - - - - - - - - - - - - - DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS THE COPYRIG	REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT ARC	THITECT
3 ISSUED FOR DEVELOPMENT APPLICATION AM BL 19.06.20 FAMILY - - - - - DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS THE COPYRIG	1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
Image: Construction of the copyrig	2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19		
DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS THE COPYRIG	3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20	EAMILY	
							VERIFICATION SIGNATURE HAS BEEN ADDED	NORTHROP CO

2%

81.410 81.392

81.230 81.279

-6.500 -5.600

81.368 81.353 81.353 81.203 81.203 81.243

81.343 81.341 81.304 81.297 81.297 81.248

-4.400 -3.680 -3.530 -3.500 -3.050

-3%

81.335

81.327

0.000

CHAINAGE 78.252

-3%

RENCE VERIF	
P: B. LAWRENCE	
JOB MANAGER:	
B. LAWRENCE	
DE SIGNED:	
A. MARGARIS	

Centreline Data X = 290039.880 Y = 6227806.389 Z = 81.335

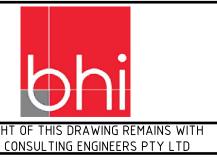
DATUM RL 80.0

OFFSET

FINISHED SURFACE

EXISTING SURFACE

CROSS SECTION ALONG MC002



2%

81.412

81.482

6.600

81.243 81.203 81.353 81.353 81.353 81.362

81.220 81.377 81.377 81.377 81.377 81.371 81.371

3.050 3.500 3.530 3.680 4.100

ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE



131 SPRINGS ROAD, SPRING FARM

PROJECT

NOT FOR CONSTRUCTION JOB NUMBER

DRAWING TITLE CIVIL ENGINEERING PACKAGE MASTER PLAN

> **CROSS SECTIONS - MC002 -**SHEET 02

181741 DRAWING NUMBER REVISION DAC06.18 3 DRAWING SHEET SIZE = A1

DRAV							
REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19	m®ran	
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20		
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS	THE COPYRIGHT
						VERIFICATION SIGNATURE HAS BEEN ADDED	NORTHROP CO

CHAINAGE 22.298

Centreline Data X = 290034.145 Y = 6227769.993 Z = 79.509				
DATUM RL 78.0		Ľ	\rightarrow	<u> </u>
FINISHED SURFACE	79.619	70 / 20	- 6 -	
EXISTING SURFACE	79.631	79.622	20.7	
OFFSET	0.630	-0.480	<u>1</u> 00	

Centreline Data X = 290071.510 Y = 6227764.960 Z = 80.025	
DATUM RL 79.0	
FINISHED	SUDEACE
	JUNIALL
	SURFACE

CHAINAGE 22.299

Centreline Data X = 290034.146 Y = 6227769.993 Z = 79.509		2%	2%	2%			
DATUM RL 78.0					L		
FINISHED SURFACE	79.704	779.67	79.653	79.619	79.619	79.469	79.509
EXISTING SURFACE	79.826	177.97	79.718	79.631	79.622	79.620	
OFFSET	-4.852	-3.502	-2.302	-0.630	-0.480	-0.450	0.000

CHAINAGE 30.000

Centreline Data X = 290041.780	CHAINAGE 40.000							
Y = 6227768.976 Z = 79.627		2%	2%	2%		_		
DATUM RL 79.0					Ĺ		_	
FINISHED SURFACE	79.821	79.794	077.67	757.97	79.737	79.587	79.627	
EXISTING SURFACE	79.963	79.908	79.847	14,74,4	79.735	79.733		
OFFSET	-4.855	-3.505	-2.305	0.63.0-	-0.480	-0.450	0.000	

-0.630 -0.480 -0.450 0.000

868 868 718 758

79.77

.878 .869 .867

79. 79.

-0.630 -0.480 -0.450 0.000

Centreline Data X = 290081.416

Y = 6227763.595

DATUM RL 79.0

OFFSET

FINISHED SURFACE

EXISTING SURFACE

Z = 80.166

Z = 80.459DATUM RL 79.0 FINISHED SURFACE EXISTING SURFACE OFFSET

Z = 80.603		2%	2%	2%	-		
DATUM RL 80.0							
FINISHED SURFACE	80.798	80.771	80.747	80.713	80.713 80.563	80.603	
EXISTING SURFACE	80.769	80.734	80.711	80.699			
OFFSET	-4.874	-3.524	-2.324	-0.630	-0.450	0.000	
	CH	IAIN,	AGE	100.	000)	

Centreline Data X = 290061.601 Y = 6227766.309 Z = 79.890		_2%	2%	2%		-	
DATUM RL 79.0					L		<u> </u>
FINISHED SURFACE	80.085	80.058	80.034	80.000	80.000	79.850	79.890
EXISTING SURFACE	80.149	80.057	80.035	80.007	80.004	80.004	

-3.538

79.926

80.011

-3.517

-4.888

79.953

80.067

.867

4

-2.338

CHAINAGE 50.000

2% 2% 2%

902

79

961

62

317

~i

OFFSET

Centreline Data

Y = 6227767.647

DATUM RL 79.0

OFFSET

FINISHED SURFACE

EXISTING SURFACE

X = 290051.691

Z = 79.758

Centreline Data X = 290111.140 Y = 6227759.534 Z = 80.603	
DATUM RL 80.0	
FINISHED	SUR

Centreline Data X = 290101.231

Y = 6227760.878



LL DIMENSIONS TO BE VERIFIED ON SITE BEFORE Commencing Work. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE

CROSS SECTION ALONG MC003

	Cł	HAIN	AGE	11
OFFSET	-4.852	-3.502	-2.302	
EXISTING SURFACE	80.928	80.898	80.871	
FINISHED SURFACE	80.937	80.910	80.886	

		2%	2%	2%				
CE	80.937	80.910	80.886	80.853	80.853	80.703	80.743	
ACE	80.928	80.898	80.871	0.830				
	-4.852	-3.502	-2.302	0.63.0-	-0.480	-0.450	0.000	

CHAINAGE 120.000

Centreline Data							
X = 290130.959 Y = 6227756.847 Z = 80.870		2%	2%	2%	n		
DATUM RL 80.0						>	
FINISHED SURFACE	81.064	81.037	81.013	80.980	80.980 0.020	80.870	
EXISTING SURFACE	81.075	81.032	81.000	80.970			
OFFSET	-4.831	-3.481	-2.281	-0.630	-0.480	0.000	
	1					_	

Centreline Data	CHAINAGE 140.000							
X = 290140.868 Y = 6227755.503 Z = 81.005		2%	2%	2%	n -	1		
DATUM RL 80.0					L			
FINISHED SURFACE	81.199	81.172	81.148	81.115	81.115	80.965	81.005	
EXISTING SURFACE	81.216	81.178	81.143	81.104				
OFFSET	-4.810	-3.460	-2.260	-0.630	-0.480	-0.450	0.000	

$\mathsf{CHAINAGE} 140,000$

	CH	150.000					
Centreline Data X = 290150.777 Y = 6227754.160 Z = 81.147		2%	2%	2%		1	
DATUM RL 80.0					L	L	
FINISHED SURFACE	81.341	81.314	81.290	81.257	81.257	81.107	81.14.7
EXISTING SURFACE	81.396	81.325	81.272	81.150	81.138		
OFFSET	-4.789	-3.439	-2.239	-0.630	-0.480	-0.450	0.000

Centreline Data X = 290160.687 Y = 6227752.822 Z = 81.323 DATUM RL 80.0		2%	2%	2%				
FINISHED SURFACE	81.515	81.488	81.464	81.433	81.433	81.283	81.323	
EXISTING SURFACE	81.604	81.542	81.494	81.434	81.421	81.415		
OFFSET	-4.762	-3.412	-2.212	-0.630	-0.480	-0.450	0.000	

OFFSET

Centreline Data

X = 290200.331 Y = 6227747.491

DATUM RL 82.0

OFFSET

Z = 82.672

LHAINAGE	110.000

PROJECT

DATUM RL 81.0 FINISHED SURFACE EXISTING SURFACE OFFSET

OFFSET Centreline Data X = 290170.598 Y = 6227751.489 Z = 81.566

UFFSEI	
Centreline Data X = 290180.509 Y = 6227750.157 Z = 81.874	
DATUM RL 81.0	
FINISHED	SURF
EXISTING	SURI

Centreline Data X = 290190.420 Y = 6227748.824 Z = 82.226 DATUM RL 81.0	
FINISHED	SURF
EXISTING	SURF
OFFSET	

CHAINAGE 90.000

80.482

80.505

557

80.334

80.359

-3.557

509

80

537

80.361

80.383

907

221

80

228

80.

607

2% 2% 2%

458

80

80.476

357

CHAINAGE 80.000

2% 2% 2%

80.310

80.331

-2.357

CHAINAGE 70.000

____2% __2% __2%

170

80.

182

80

-2.357

CHAINAGE 60.000

194

80.

203

80.

-3.557

-4. -3.1 -0.0

80.423 80.423 80.273 80.313

80.429 80.425 80.424 80.314

.630 .480 .450 000

.276 .276 .126 .166

80. 80.

.288 .284 .284 .170

80.80

-0.630 -0.480 -0.450 0.000

135 135 985 025

80. 3 80. 3 80. 3

149 146 145

80 . 80 .

-0.630 -0.480 -0.450 0.000

\geq	2%	2%	2%					
80.655	80.628	80.604		80.569	80.569	80.419	80.459	
80.656	80.624	80.600		80.571	80.567	80.562		
-4.895	-3.545	-2.345		-0.630	-0.480	-0.450	0.000	

Centreline Data

X = 290121.049 Y = 6227758.191

DATUM RL 80.0

Z = 80.743

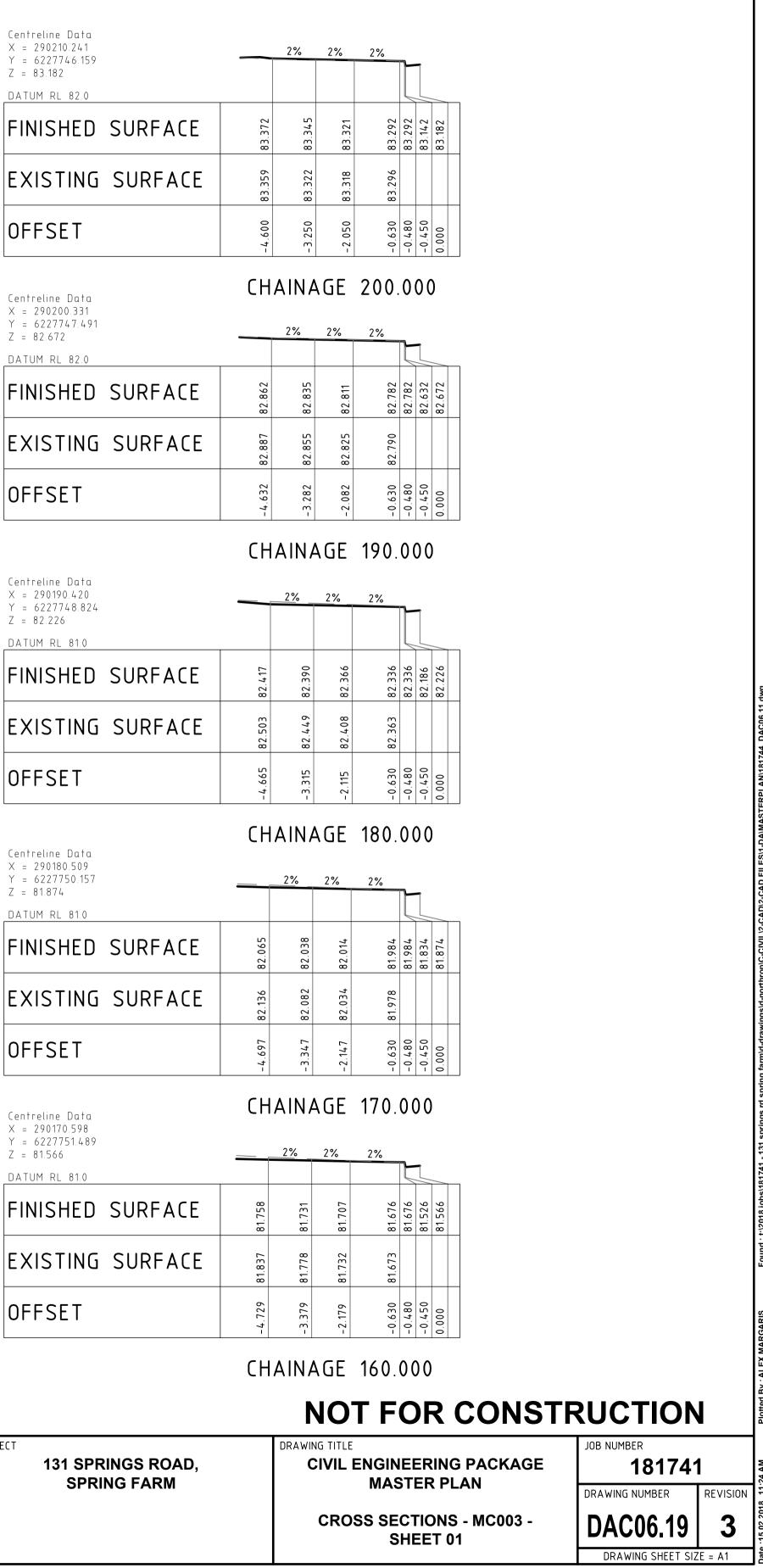
10 000

Sydney

Level 11 345 George Street, Sydney NSW 2000

Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100

NORTHROP



DRAWI							
REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT
1	ISSUED FOR CLIENT REVIEW	AM		BL	17.07.19		
2	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.12.19	m®ran	
3	ISSUED FOR DEVELOPMENT APPLICATION	AM		BL	19.06.20	FAMILY	
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B. LAWRENCE	
JOB MANAGER:	
B. LAWRENCE	
DE SIGNED:	
MARGARIS	

Centreline Data X = 290230.063 Y = 6227743.493		2%	2%	2%		-	
Z = 84.405 DATUM RL 83.0							
FINISHED SURFACE	84.593	84.566	84.542	84.515	84.515	84.365 84.405	
EXISTING SURFACE	84.637	84.596	84.560	84.519	84.514		
OFFSET	-4.535	-3.185	-1.985	-0.630	-0.480	-0.450 0.000	
Centreline Data	CH,	AINA	GE	220	. 0	00	
X = 290220.152							
Y = 6227744.826 Z = 83.775		2%	2%	2%		_	
		2%	2%	2%			-
Z = 83.775	83.963	2%	2%	2% 283 83 882	83.885	83.735	
z = 83.775 DATUM RL 83.0 FINISHED SURFACE	83.94.0 83.963	3.936	912	885	83.885		
Z = 83.775 DATUM RL 83.0	3.940 83.	3.892 83.936	3.867 83.912	3.876 83.885	83	83. 83.	

Centreline Data X = 290239.974 Y = 6227742.161 Z = 85.092 DATUM RL 84.0	/	2%	2%	2%				
FINISHED SURFACE	.279	.252	.228	.202	202	.052	.092	
	85	85	85	85	85	85	85	
EXISTING SURFACE	267	246	228	207	205			
	85.2	85.2	85.2	85.2	85.2			
		~	~	6	0	0		
OFFSET	4.503	3.153	I.953	0.630	0.480	0.450	000	
	-1	1	-1	U	1		o	

CHAINAGE 240.000

Centreline Data X = 290249.881 Y = 6227740.802 Z = 85.786	/	2%	2%	2%				
FINISHED SURFACE	5.974	5.947	5.923	5.896	5.896	85.74.6	5.786	
EXISTING SURFACE	85.974 8	85.947 8	85.923 8	85.901 8	8	80	80	_
OFFSET	-4.497	-3.147	-1.947	-0.630	-0.480	-0.450	0.000	

CHAINAGE 250.000

Centreline Data X = 290259.788 Y = 6227739.443 Z = 86.464		2%	2%	2%		1		
DATUM RL 85.0					L		_	
FINISHED SURFACE	86.651	86.624	86.600	86.574	86.574	86.424	86.464	
EXISTING SURFACE	86.574	86.555	86.553	86.574				
OFFSET	-4.491	-3.141	-1.941	-0.630	-0.480	-0.450	0.000	

				270	• •	/ (
Centreline Data X = 290289.591 Y = 6227737.258		2%	2%	2%	7-	-	
Z = 88.329 DATUM RL 87.0							_
FINISHED SURFACE	88.516	88.489	88.465	88.439	88.439	88.289	88.329
EXISTING SURFACE	88.442	88.451	88.445	88.439			
OFFSET	-4.450	-3.100	-1.900	-0.630	-0.480	-0.450	0.000
Centreline Data	CH.	AINA	GE	280	. 0	0	0
$ \begin{array}{l} X = 290279.629 \\ Y = 6227736.930 \\ Z = 87.715 \end{array} $		2%	2%	2%			
DATUM RL 87.0							
FINISHED SURFACE	87,899	87 872	87.848	87.825	87.825	87.675	87.715
EXISTING SURFACE	87.825	87 823	87.821	87.819			
OFFSET	-4.293	-7 939		-0.630	-0.480	-0.450	0.00.0
	CH	AINA	GE	270	. 0	0	0
Centreline Data X = 290269.700 Y = 6227738.115		2%	2%	2%			
Z = 87.115 DATUM RL 86.0							
FINISHED SURFACE	87.302	87.275	87.251	87.225	87.225	87.075	87.115
EXISTING SURFACE	87.217	87.225	87.227	87.224			
OFFSET	-4.454	-3.104	-1.904	-0.630	-0.480	-0.450	0.000
	CH,	AINA	GE	260	. 0	0)

UTTSET		-3.4	•	-0.6	-0.4	-0.4	0.00
Centreline Data X = 290299.472	CHAINAGE 320.74						
$\begin{array}{rcl} X &=& 290299.472 \\ Y &=& 6227739.630 \\ Z &=& 88.904 \end{array}$		2%	2%	2%	7	1	
DATUM RL 88.0					Ĺ		
FINISHED SURFACE	89.090	89.063	89.039	89.014	89.014	88.864	88.904
EXISTING SURFACE	88.902	88.938	88.970	89.005			
OFFSET	-4.450	-3.100	-1.900	-0.630	-0.480	-0.450	0.000

X = 290327.607 Y = 6227734.634 Z = 89.856			2%	2%		-		
DATUM RL 89.0					Ĺ			
FINISHED SURFACE	90.022	90.012	89.988	89.966	89.966	89.816	89.856	
EXISTING SURFACE	89.951	89.958	89.974	89.959				
OFFSET	-3.450	-2.950	-1.750	-0.630	-0.480	-0.450	0.000	

Centreline Data

CHAINAGE 290.178

Centreline Data X = 290331.498 Y = 6227732.619 Z = 89.954				2%	2%] -	1		
DATUM RL 89.0		$ \leq$	5			5	\leq		
FINISHED SURFACE	90.075	90.120	90.110	90.086	90.064	90.064	89.914	89.954	
EXISTING SURFACE	90.075	90.078	90.088	90.069					
OFFSET	-3.631	-3.450	-2.950	-1.750	-0.630	-0.480	-0.450	0.000	-
	1								-

CHAINAGE 325.126

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181741 DRAWING NUMBER REVISION DAC06.20 3 DRAWING SHEET SIZE = A1

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