



Image supplied by
nearmap

PROJECT INFORMATION SUMMARY:
No. OF LOTS = N/A
AREA OF SITE = 56.57ha
RP DESCRIPTION LOT 911 ON SP 321079 LOT 2 ON RP 25922 LOT 1 ON RP 35155 LOT 10 SL6002 LOT 2 SP 250186 LOT 1 SP 250186 LOT 8 SP 312737 LOT 1 SP 318791 LOT 50 SP 293963 LOT 58 S 312118 LOT 3 SP 270926
DATUM LEVEL AND LOCATION P.S.M. 107142 RL 39.078 AHD
LOCAL AUTHORITY: LOGAN CITY COUNCIL
EDQ REFERENCE NUMBER: DEV2012/403

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE	DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		1:20000 200 0 200 400 600 800 1000 A1 1:40000  A3	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	COVER PLAN		
					DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24  FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD			ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P100	REVISION A

DRAWING LIST

EARTHWORKS, ROADWORKS AND DRAINAGE

22-0145-P100	COVER PLAN
22-0145-P101	DRAWING INDEX
22-0145-P102	ROAD TYPICAL SECTIONS
22-0145-P110	ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 1 OF 8
22-0145-P111	ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 2 OF 8
22-0145-P112	ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 3 OF 8
22-0145-P113	ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 4 OF 8
22-0145-P114	ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 5 OF 8
22-0145-P115	ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 6 OF 8
22-0145-P116	ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 7 OF 8
22-0145-P117	ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 8 OF 8
22-0145-P120	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 1 OF 14
22-0145-P121	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 2 OF 14
22-0145-P122	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 3 OF 14
22-0145-P123	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 4 OF 14
22-0145-P124	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 5 OF 14
22-0145-P125	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 6 OF 14
22-0145-P126	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 7 OF 14
22-0145-P127	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 8 OF 14
22-0145-P128	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 9 OF 14
22-0145-P129	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 10 OF 14
22-0145-P130	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 11 OF 14
22-0145-P131	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 12 OF 14
22-0145-P132	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 13 OF 14
22-0145-P133	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 14 OF 14
22-0145-P140	NEW BEITH ROAD LONGITUDINAL SECTION SHEET 1 OF 8
22-0145-P141	NEW BEITH ROAD LONGITUDINAL SECTION SHEET 2 OF 8
22-0145-P142	NEW BEITH ROAD LONGITUDINAL SECTION SHEET 3 OF 8
22-0145-P143	NEW BEITH ROAD LONGITUDINAL SECTION SHEET 4 OF 8
22-0145-P144	NEW BEITH ROAD LONGITUDINAL SECTION SHEET 5 OF 8
22-0145-P145	NEW BEITH ROAD LONGITUDINAL SECTION SHEET 6 OF 8
22-0145-P146	NEW BEITH ROAD LONGITUDINAL SECTION SHEET 7 OF 8
22-0145-P147	NEW BEITH ROAD LONGITUDINAL SECTION SHEET 8 OF 8
22-0145-P148	NEW BEITH ROAD CROSS SECTIONS SHEET 1 OF 12
22-0145-P149	NEW BEITH ROAD CROSS SECTIONS SHEET 2 OF 12
22-0145-P150	NEW BEITH ROAD CROSS SECTIONS SHEET 3 OF 12
22-0145-P151	NEW BEITH ROAD CROSS SECTIONS SHEET 4 OF 12
22-0145-P152	NEW BEITH ROAD CROSS SECTIONS SHEET 5 OF 12
22-0145-P153	NEW BEITH ROAD CROSS SECTIONS SHEET 6 OF 12
22-0145-P154	NEW BEITH ROAD CROSS SECTIONS SHEET 7 OF 12
22-0145-P155	NEW BEITH ROAD CROSS SECTIONS SHEET 8 OF 12
22-0145-P156	NEW BEITH ROAD CROSS SECTIONS SHEET 9 OF 12
22-0145-P157	NEW BEITH ROAD CROSS SECTIONS SHEET 10 OF 12
22-0145-P158	NEW BEITH ROAD CROSS SECTIONS SHEET 11 OF 12
22-0145-P159	NEW BEITH ROAD CROSS SECTIONS SHEET 12 OF 12
22-0145-P170	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 1 OF 14
22-0145-P171	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 2 OF 14
22-0145-P172	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 3 OF 14
22-0145-P173	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 4 OF 14
22-0145-P174	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 5 OF 14

EARTHWORKS, ROADWORKS AND DRAINAGE

22-0145-P150	NEW BEITH ROAD CROSS SECTIONS SHEET 3 OF 12
22-0145-P151	NEW BEITH ROAD CROSS SECTIONS SHEET 4 OF 12
22-0145-P152	NEW BEITH ROAD CROSS SECTIONS SHEET 5 OF 12
22-0145-P153	NEW BEITH ROAD CROSS SECTIONS SHEET 6 OF 12
22-0145-P154	NEW BEITH ROAD CROSS SECTIONS SHEET 7 OF 12
22-0145-P155	NEW BEITH ROAD CROSS SECTIONS SHEET 8 OF 12
22-0145-P156	NEW BEITH ROAD CROSS SECTIONS SHEET 9 OF 12
22-0145-P157	NEW BEITH ROAD CROSS SECTIONS SHEET 10 OF 12
22-0145-P158	NEW BEITH ROAD CROSS SECTIONS SHEET 11 OF 12
22-0145-P159	NEW BEITH ROAD CROSS SECTIONS SHEET 12 OF 12
22-0145-P170	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 1 OF 14
22-0145-P171	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 2 OF 14
22-0145-P172	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 3 OF 14
22-0145-P173	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 4 OF 14
22-0145-P174	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 5 OF 14
22-0145-P175	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 6 OF 14
22-0145-P176	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 7 OF 14
22-0145-P177	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 8 OF 14
22-0145-P178	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 9 OF 14
22-0145-P179	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 10 OF 14
22-0145-P180	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 11 OF 14
22-0145-P181	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 12 OF 14
22-0145-P182	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 13 OF 14
22-0145-P183	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 14 OF 14
22-0145-P190	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 33
22-0145-P191	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2 OF 33
22-0145-P192	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 3 OF 33
22-0145-P193	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 4 OF 33
22-0145-P194	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 5 OF 33
22-0145-P195	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 6 OF 33
22-0145-P196	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 7 OF 33
22-0145-P197	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 8 OF 33
22-0145-P198	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 9 OF 33
22-0145-P199	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 10 OF 33
22-0145-P200	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 11 OF 33
22-0145-P201	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 12 OF 33
22-0145-P202	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 13 OF 33
22-0145-P203	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 14 OF 33
22-0145-P204	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 15 OF 33
22-0145-P205	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 16 OF 33
22-0145-P206	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 17 OF 33
22-0145-P207	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 18 OF 33
22-0145-P208	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 19 OF 33
22-0145-P209	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 20 OF 33
22-0145-P210	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 21 OF 33
22-0145-P211	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 22 OF 33
22-0145-P212	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 23 OF 33
22-0145-P213	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 24 OF 33
22-0145-P214	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 25 OF 33
22-0145-P215	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 26 OF 33

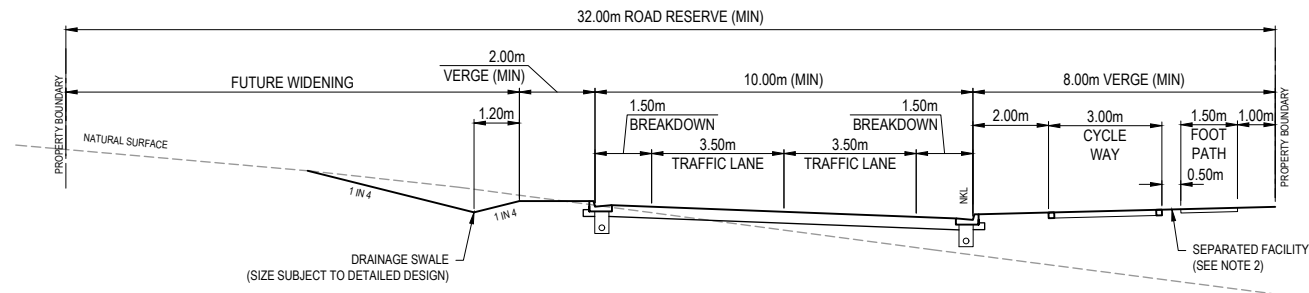
EARTHWORKS, ROADWORKS AND DRAINAGE

22-0145-P215	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 26 OF 33
22-0145-P216	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 27 OF 33
22-0145-P217	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 28 OF 33
22-0145-P218	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 29 OF 33
22-0145-P219	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 30 OF 33
22-0145-P220	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 31 OF 33
22-0145-P221	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 32 OF 33
22-0145-P222	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 33 OF 33

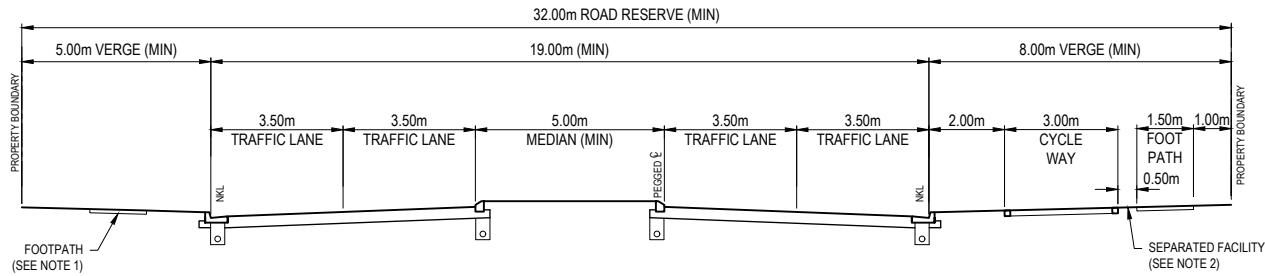
SEWERAGE AND WATER RETICULATION

22-0145-P300	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 1 OF 14
22-0145-P301	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 2 OF 14
22-0145-P302	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 3 OF 14
22-0145-P303	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 4 OF 14
22-0145-P304	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 5 OF 14
22-0145-P305	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 6 OF 14
22-0145-P306	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 7 OF 14
22-0145-P307	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 8 OF 14
22-0145-P308	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 9 OF 14
22-0145-P309	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 10 OF 14
22-0145-P310	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 11 OF 14
22-0145-P311	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 12 OF 14
22-0145-P312	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 13 OF 14
22-0145-P313	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 14 OF 14

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION								
						DESIGN	APPROVED	DATE							
						PM	DANIEL COLLINS	RPEQ 18631	12.09.24						
												ASSOCIATED CONSULTANT			
												VERIS			
												(07) 3666 4700			
												HOMESTEAD DRIVE FLAGSTONE			
												PROJECT No.	DRAWING No.		REVISION
												22-0145	P101		A

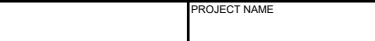


TYPE USA-4L-1
TRUNK CONNECTOR (2 LANES) INTERIM
32.0m ROAD RESERVE (<18000 vpd)
NO ON STREET PARKING



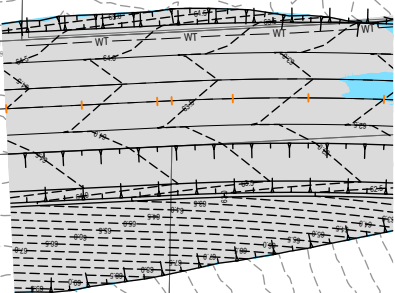
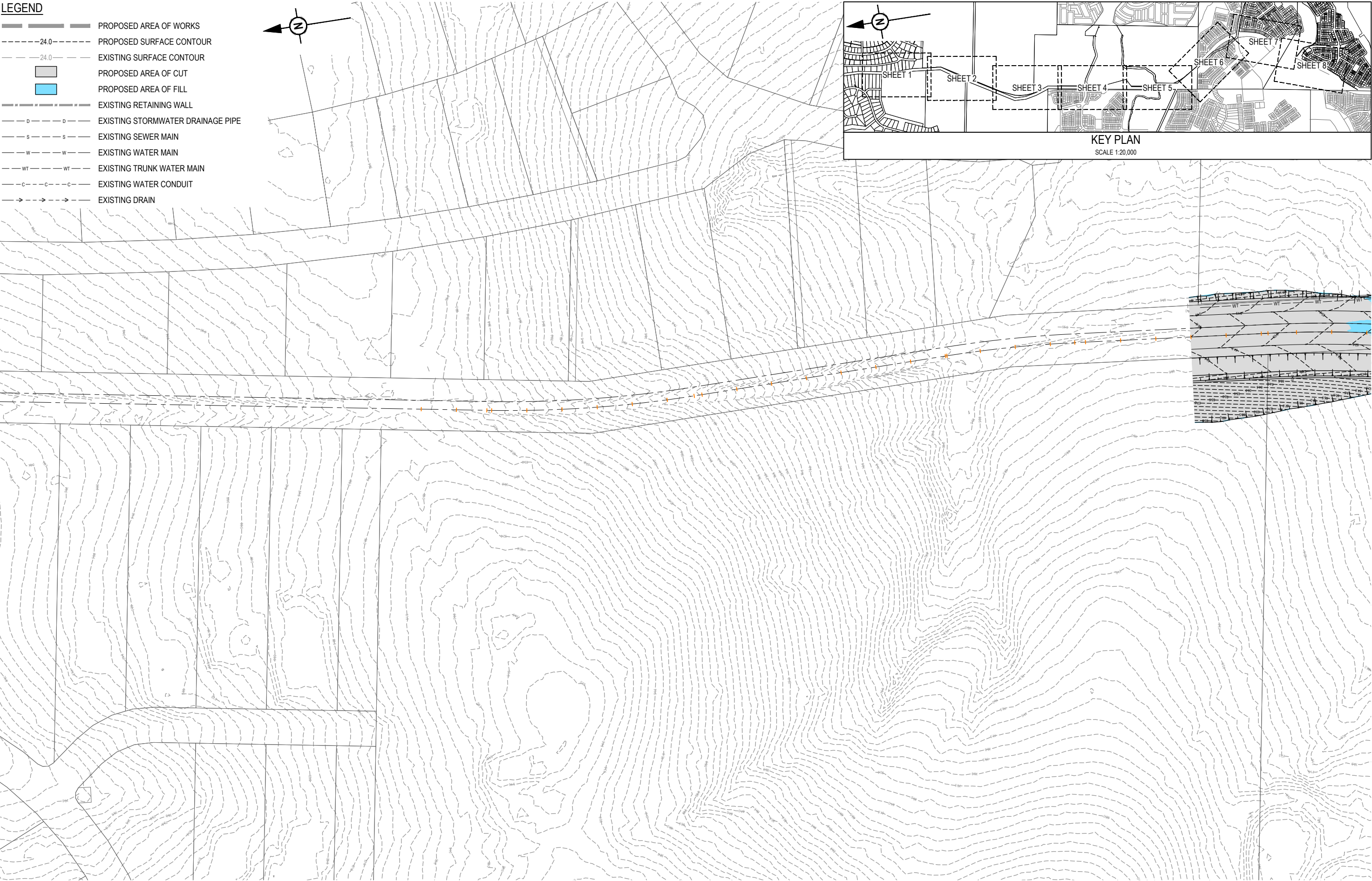
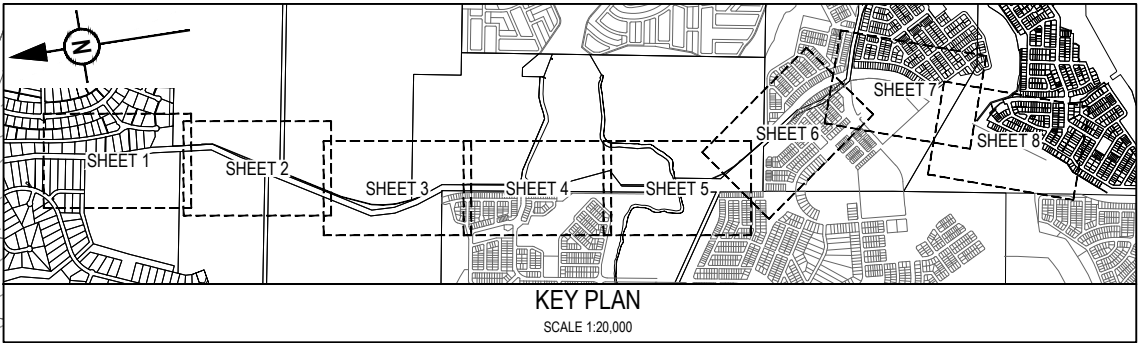
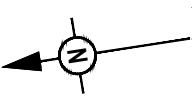
TYPE USA-4L-2
TRUNK CONNECTOR (4 LANES) ULTIMATE
32.0m ROAD RESERVE (18000-30000 vpd)
NO ON STREET PARKING

- NOTES:**
1. THE ADDITION OF FURTHER CYCLE PATHS IS SUBJECT TO FURTHER ENGINEER ASSESSMENT. SHOULD CYCLE PATHS BE WARRANTED, THESE FACILITIES MAY TAKE THE FORM OF EITHER SHARED OFF-ROAD FACILITIES (FOR LOW VOLUME CYCLE ROUTES) OR SEPARATED OFF-ROAD FACILITIES.
 2. BASED ON LANDSCAPE DESIGN REQUIREMENTS AND SERVICES CONSTRAINTS, THE SEPARATION STRIP MAY BE REPLACED WITH LANDSCAPED STRIPS BETWEEN 0.35m TO 0.50m WIDE PLANTED WITH SUITABLE COMPACT SPECIES. FOOTPATH OFFSET FROM THE PROPERTY BOUNDARY MAY BE REDUCED SUBJECT TO SERVICES CONSTRAINTS.

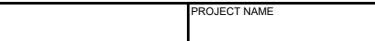
REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS		SCALE		CLIENT	PROJECT NAME		DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		1:100	1 0 1 2 3 4 5 A1	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	ROAD TYPICAL SECTIONS			
										1:200							A3
							PM	APPROVED DANIEL COLLINS  RPEQ 18631 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	DATE 12.09.24	ASSOCIATED CONSULTANT VERIS (07) 3666 4700		HOMESTEAD DRIVE FLAGSTONE		PROJECT No. 22-0145	DRAWING No. P102	REVISION A	

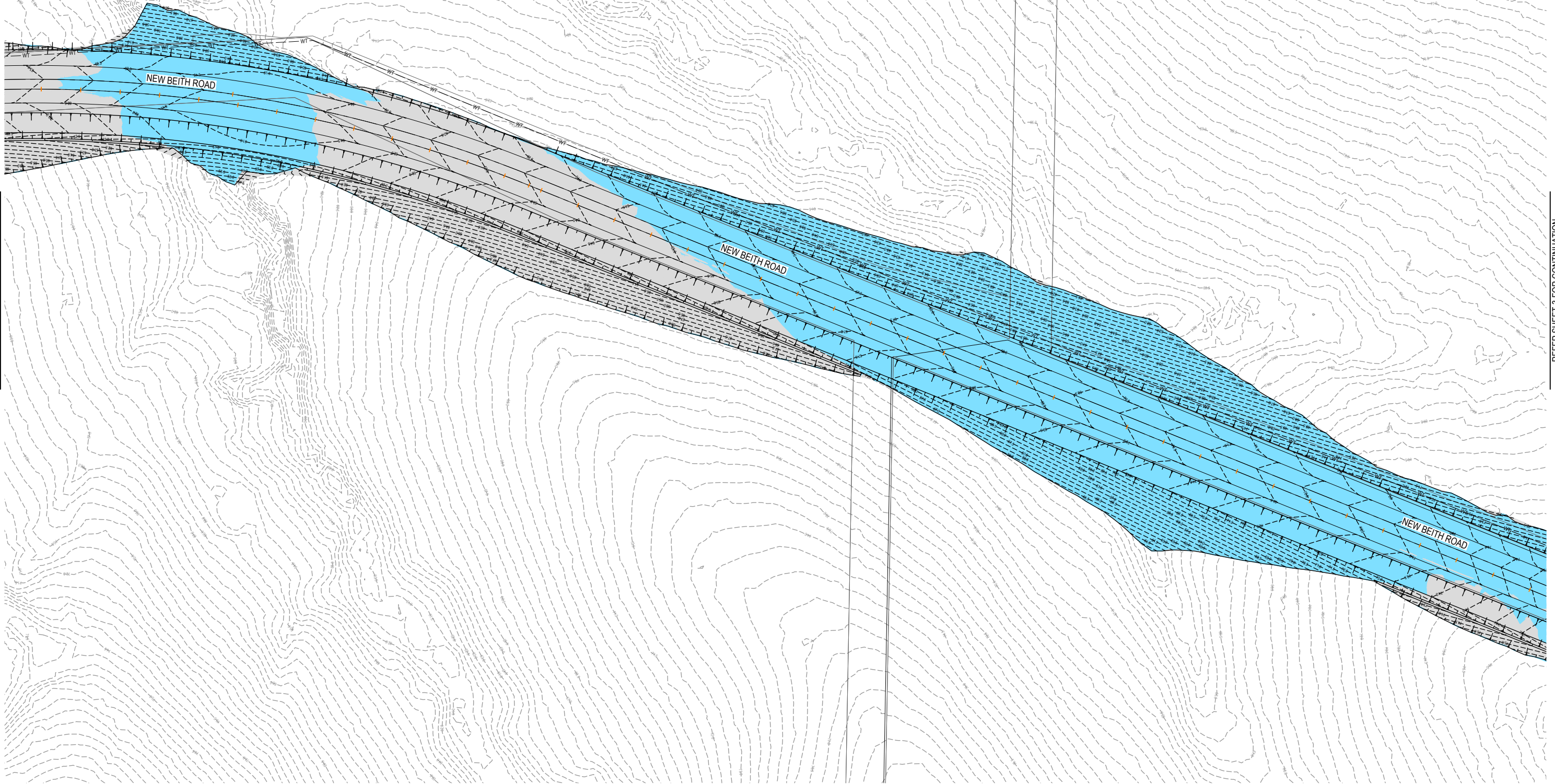
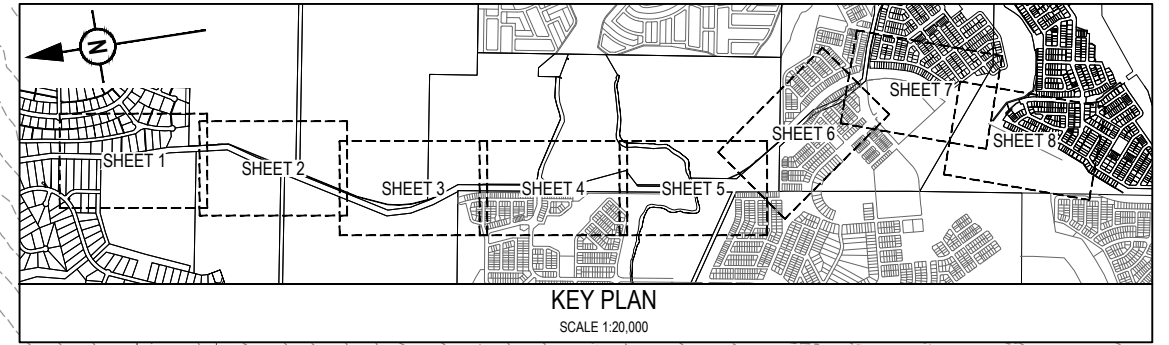
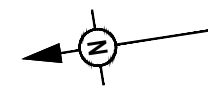
LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- PROPOSED AREA OF CUT
- PROPOSED AREA OF FILL
- EXISTING RETAINING WALL
- EXISTING STORMWATER DRAINAGE PIPE
- EXISTING SEWER MAIN
- EXISTING WATER MAIN
- EXISTING TRUNK WATER MAIN
- EXISTING WATER CONDUIT
- EXISTING DRAIN



REFER SHEET 2 FOR CONTINUATION

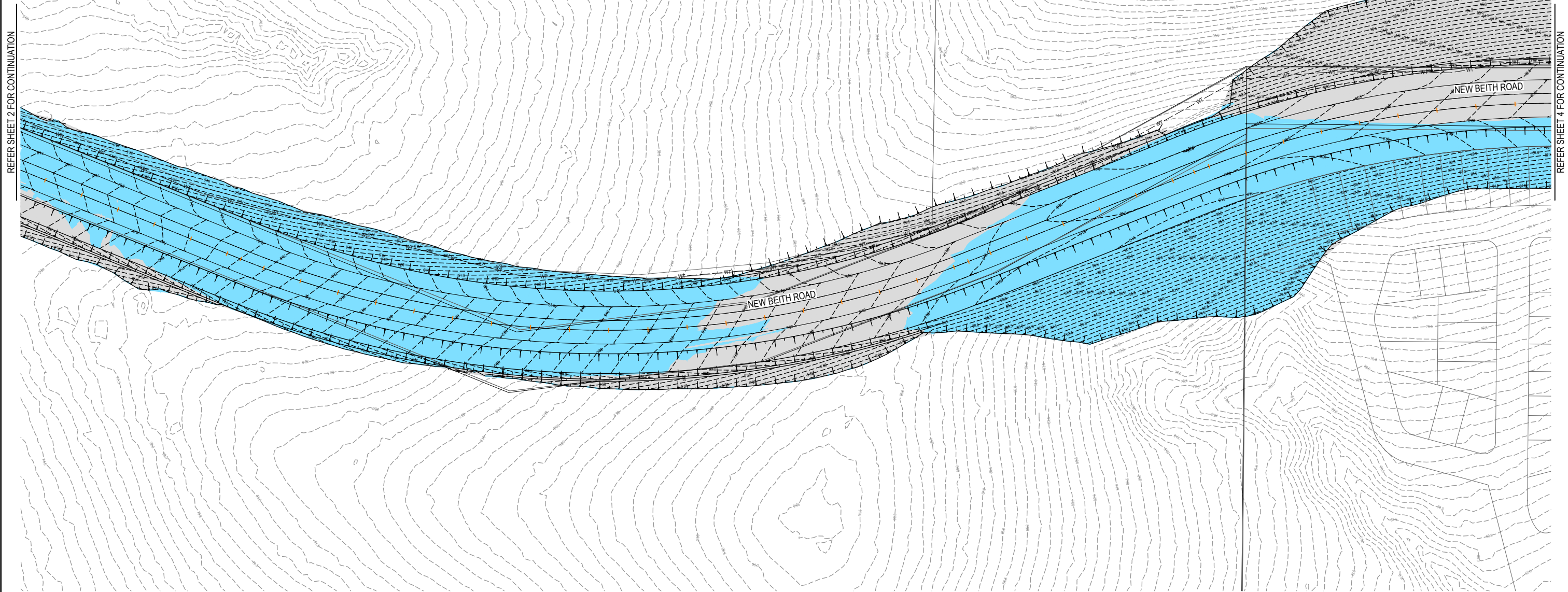
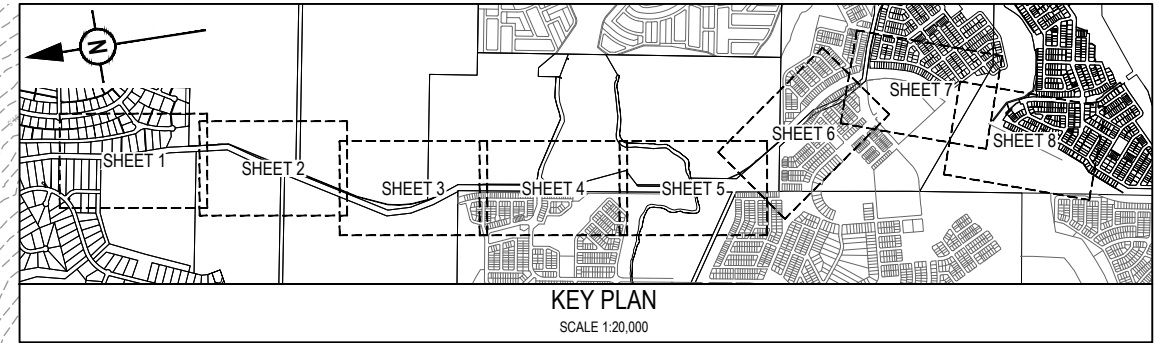
REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE 1:1000 10 0 10 20 30 40 50 A1 1:2000  A3	CLIENT		PROJECT NAME		DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION				PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE		ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 1 OF 8			
						DESIGN	APPROVED	DATE			ASSOCIATED CONSULTANT		HOMESTEAD DRIVE FLAGSTONE		PROJECT No.	DRAWING No.	REVISION
						PM	DANIEL COLLINS RPEQ 18631 12.09.24		VERIS (07) 3666 4700		22-0145		P110	A			
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD.																	



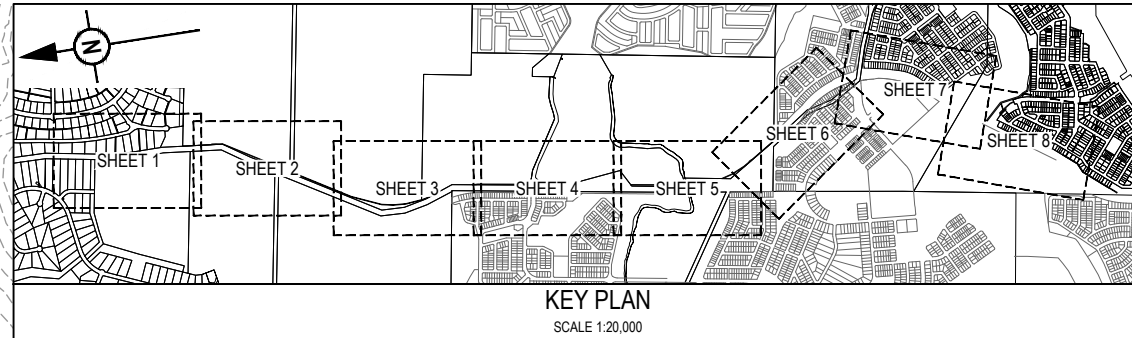
REFER SHEET 1 FOR CONTINUATION

REFER SHEET 3 FOR CONTINUATION

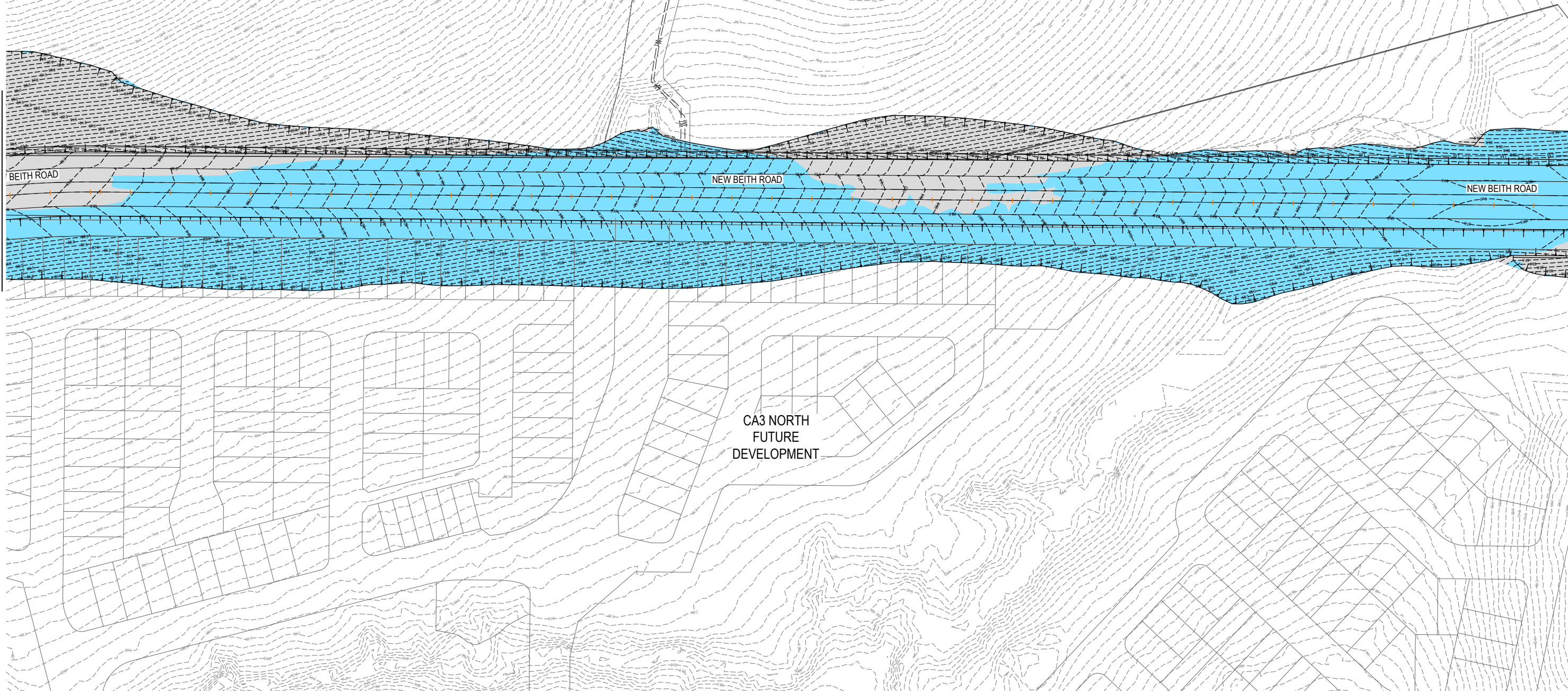
REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS				SCALE 1:1000 10 0 10 20 30 40 50 A1 1:2000  A3	CLIENT		PROJECT NAME		DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION					PEET FLAGSTONE CITY PTY. LTD.		NEW BEITH ROAD - FLAGSTONE		ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 2 OF 8		
							DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24		ASSOCIATED CONSULTANT VERIS (07) 3666 4700			HOMESTEAD DRIVE FLAGSTONE		PROJECT No. 22-0145	DRAWING No. P111	REVISION A		
							PM	FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD											



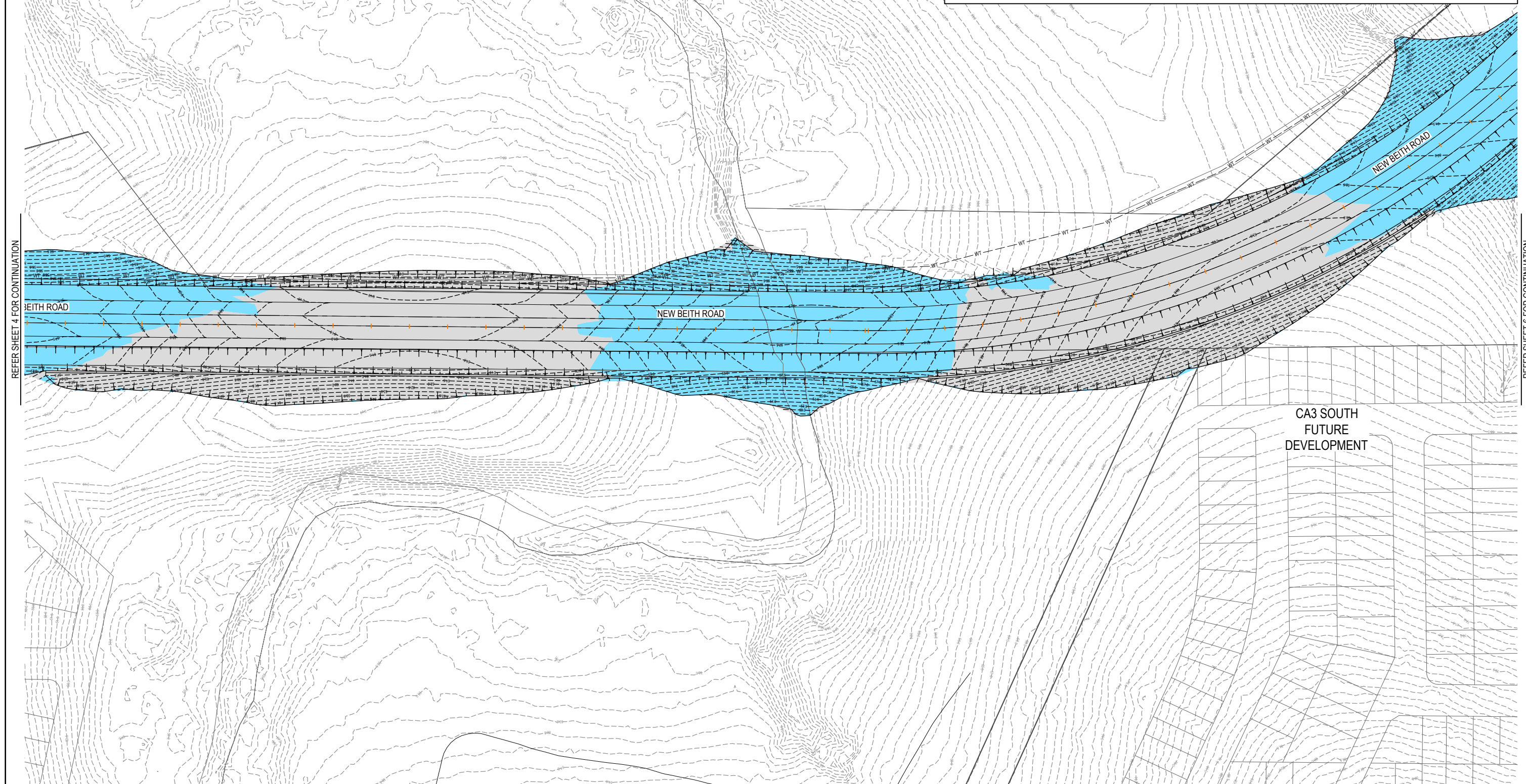
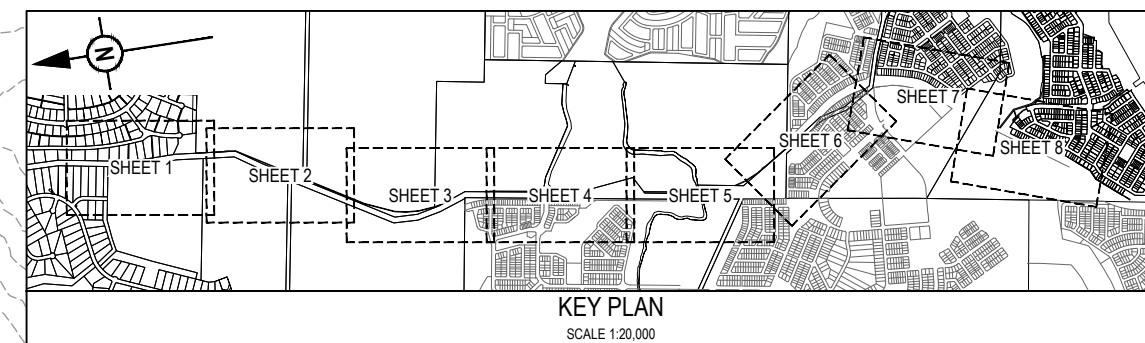
REV	DATE	DESIGN	DRAWN	REVISION DETAILS				DRAWN	STATUS					SCALE		CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE				DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION					1:1000 1:2000		10 0 10 20 30 40 50 A1 A3	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 3 OF 8	
								DESIGN	APPROVED DANIEL COLLINS	RPEQ 18631	DATE 12.09.24					ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P112	REVISION A
								FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD												

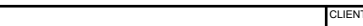


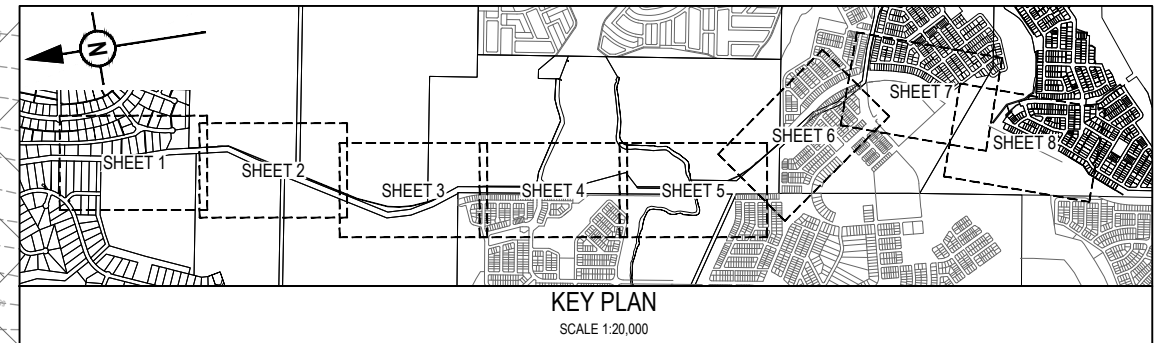
REFER SHEET 5 FOR CONTINUATION



REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE		CLIENT	PROJECT NAME		DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION				PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE		ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 4 OF 8		
										1:1000 10 0 10 20 30 40 50 A1 1:2000  A3						
						DESIGN	APPROVED	DATE			ASSOCIATED CONSULTANT			PROJECT No.	DRAWING No.	REVISION
						Pm	DANIEL COLLINS	RPEQ 18631	12.09.24		VERIS	HOMESTEAD DRIVE FLAGSTONE		22-0145	P113	A
							FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD.				(07) 3666 4700					



REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE		CLIENT	PROJECT NAME NEW BEITH ROAD - FLAGSTONE	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			1:1000 10 0 10 20 30 40 50 A1 1:2000  A3	PEET FLAGSTONE CITY PTY. LTD.	ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 5 OF 8				
						DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 	DATE 12.09.24		ASSOCIATED CONSULTANT VERIS (07) 3666 4700	PROJECT No. 22-0145 DRAWING No. P114 REVISION A					
						PM	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD					HOMESTEAD DRIVE FLAGSTONE				



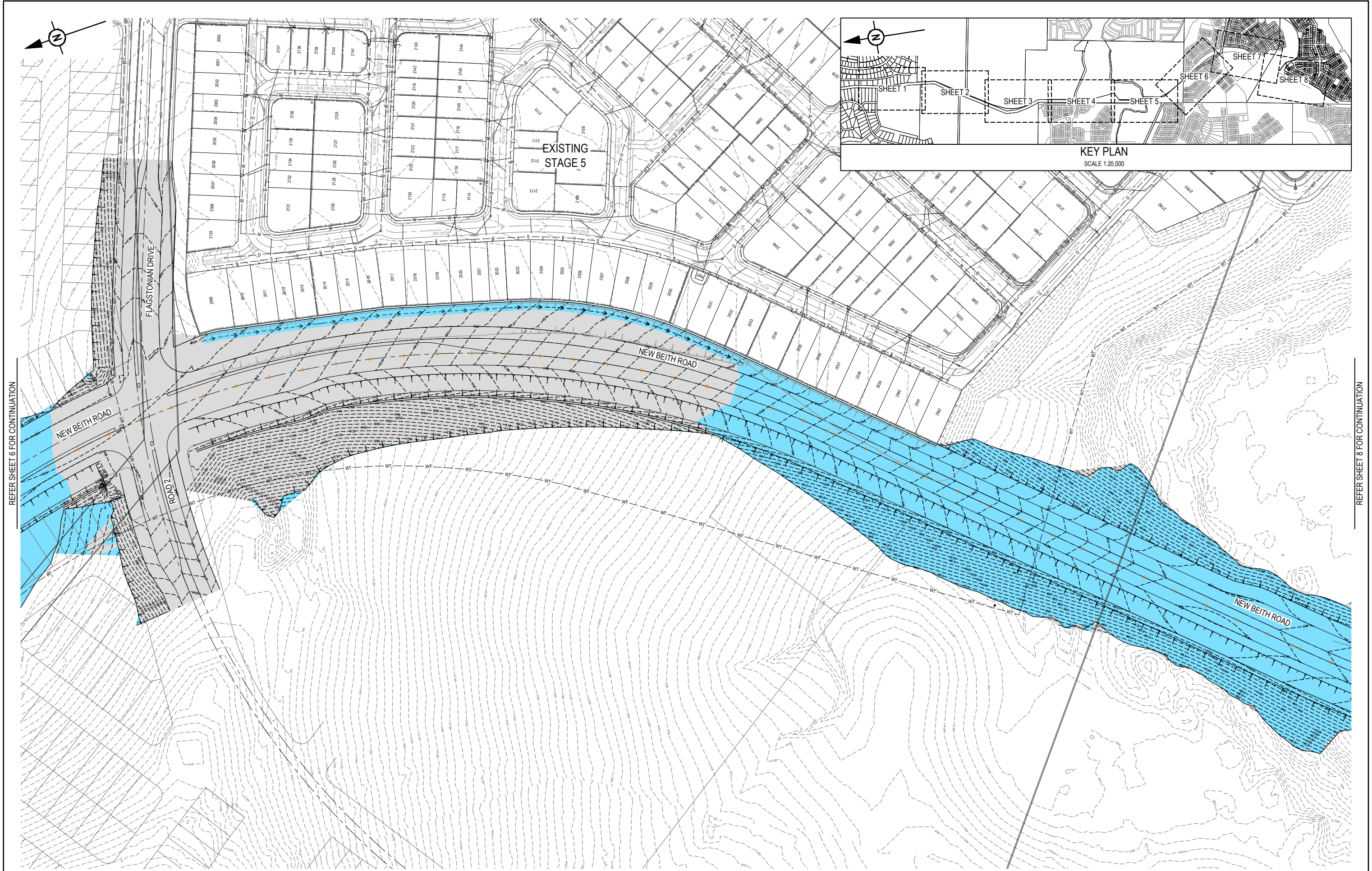
FUTURE
STAGE 4

NEW BEITH ROAD

NEW BEITH ROAD

CA3 SOUTH FUTURE DEVELOPMENT

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE		CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			1:1000 10 0 10 20 30 40 50 A1 1:2000  A3	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 6 OF 8			
						DESIGN	APPROVED	DATE		ASSOCIATED CONSULTANT			PROJECT No.	DRAWING No.	REVISION	
						PM	DANIEL COLLINS	RPEQ 18631	12.09.24	VERIS	HOMESTEAD DRIVE FLAGSTONE	22-0145	P115	A		
						FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD										



REFER SHEET 6 FOR CONTINUATION

REFER SHEET 8 FOR CONTINUATION

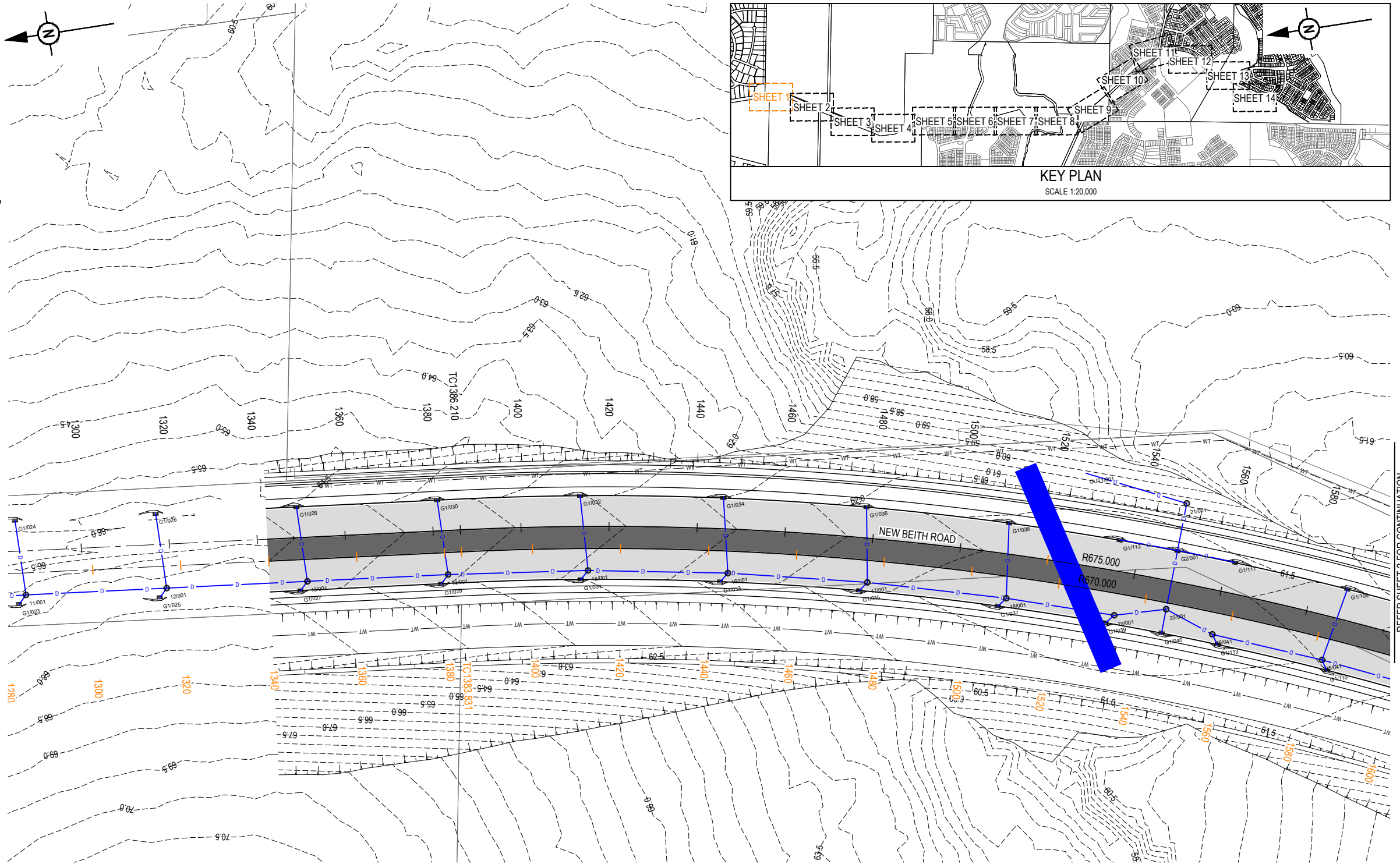
REV				DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE 1:1000 1:2000  10 0 10 20 30 40 50 A1 A3	CLIENT		PROJECT NAME HOMESTEAD DRIVE FLAGSTONE	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		PEET FLAGSTONE CITY PTY. LTD.				ULTIMATE BULK EARTHWORKS LAYOUT PLAN SHEET 7 OF 8					
									DESIGN	APPROVED DANIEL COLLINS  RPEQ 18631 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	DATE 12.09.24	ASSOCIATED CONSULTANT VERIS (07) 3666 4700		PROJECT No. 22-0145				
						PM							DRAWING No. P116					
													REVISION A					

LEGEND

- PROPOSED AREA OF WORKS
- PROPOSED ROAD CONTROL LINE
- EXISTING ROAD CROWN
- PROPOSED ROAD CONTROL
- PROPOSED ULTIMATE ROAD CONTROL
- PROPOSED KERB INVERT LINE
- PROPOSED NEW ROAD PAVEMENT
- PROPOSED ISLAND
- PROPOSED CONCRETE PATH AND PRAM RAMP
- FINISHED SURFACE CONTOUR
- PROPOSED STORMWATER DRAINAGE PIPE
- EXISTING STORMWATER DRAINAGE PIPE
- EXISTING DRAIN
- EXISTING SEWERAGE MAIN
- PROPOSED TRUNK WATER MAIN
- EXISTING WATER MAIN
- EXISTING TRUNK WATER MAIN
- EXISTING WATER CONDUIT

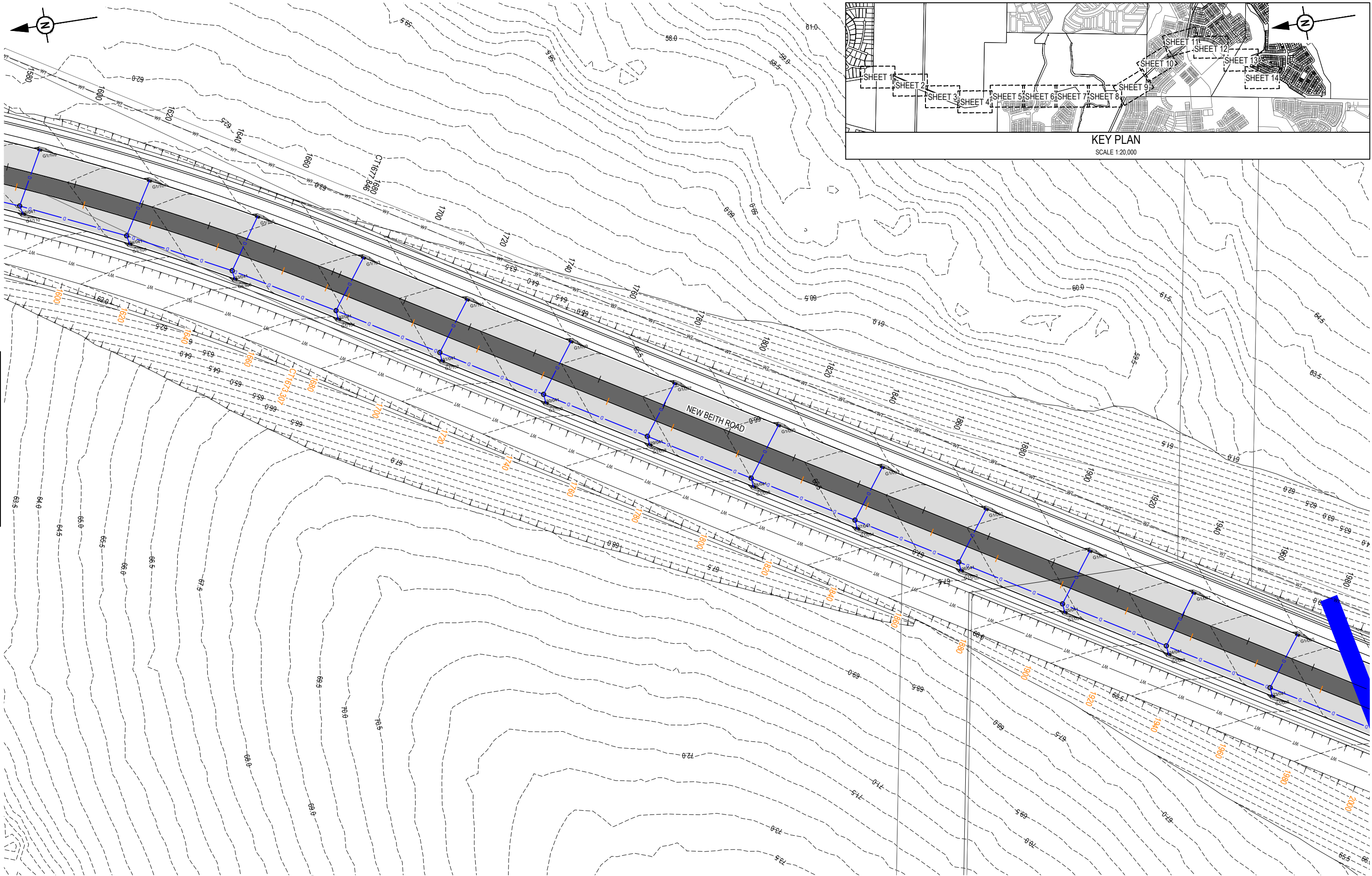
KERB TYPES NOTE:

REFER TO THE SURVEY SETOUT ENGINEERING DRAWING FOR KERB TYPES AND TRANSITION LOCATIONS



REFER SHEET 2 FOR CONTINUATION

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	CLIENT	PROJECT NAME	DRAWING TITLE
A	12.09.24	PM	DH	ORIGINAL ISSUE	DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 1 OF 14
					PM	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24	ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145 DRAWING No. P120 REVISION A
					FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD				

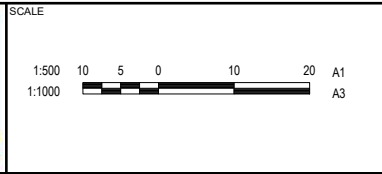


REFER SHEET 1 FOR CONTINUATION

REFER SHEET 3 FOR CONTINUATION

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	12.09.24	PM	DH	ORIGINAL ISSUE

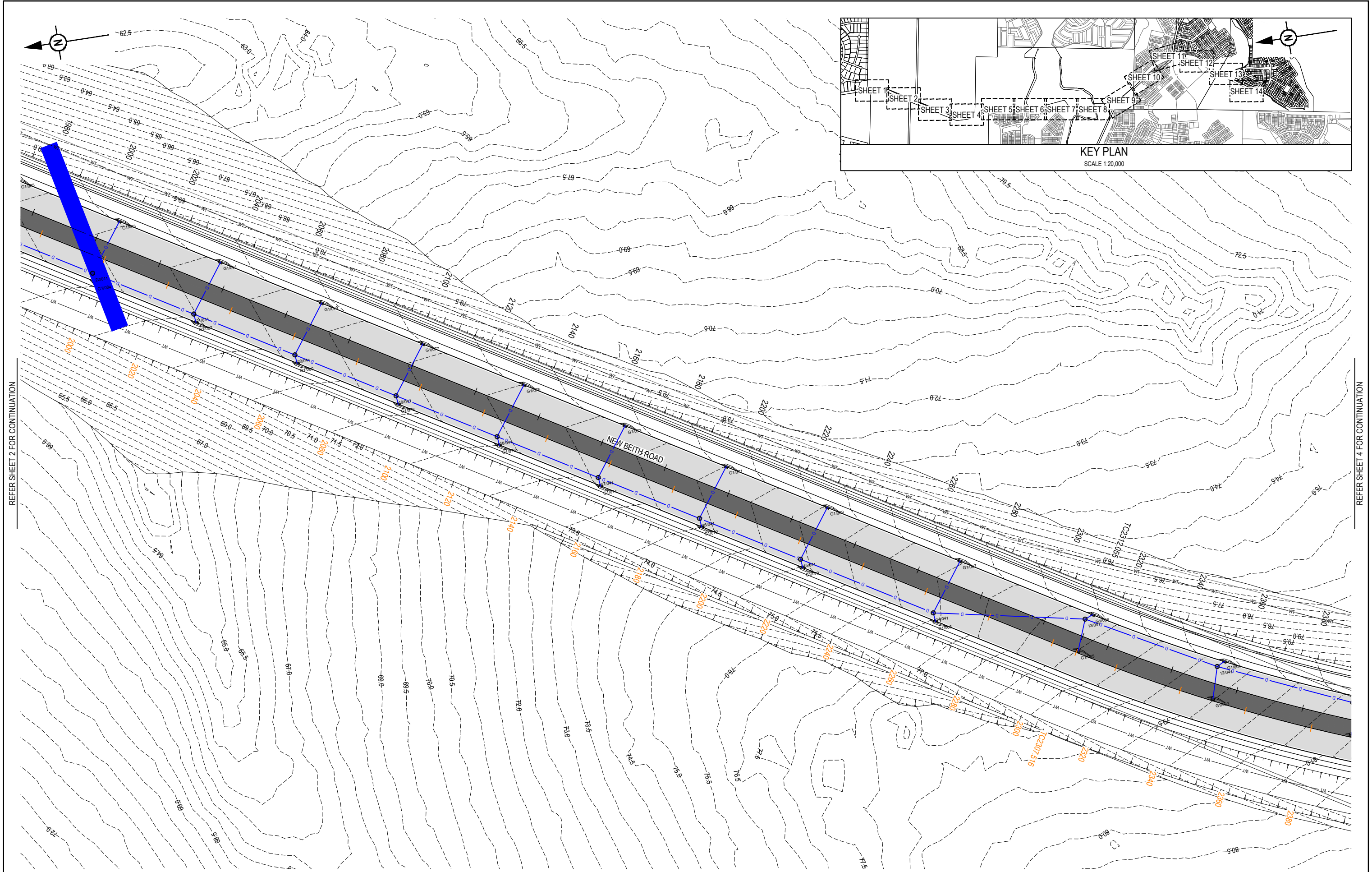
DRAWN	STATUS
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION
DESIGN	APPROVED
PM	DANIEL COLLINS RPEQ 18631 DATE 12.09.24
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	



CLIENT
PEET FLAGSTONE CITY PTY. LTD.
ASSOCIATED CONSULTANT
VERIS (07) 3666 4700

PROJECT NAME
NEW BEITH ROAD - FLAGSTONE
HOMESTEAD DRIVE FLAGSTONE

DRAWING TITLE
ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 2 OF 14
PROJECT No.
22-0145
DRAWING No.
P121
REVISION
A

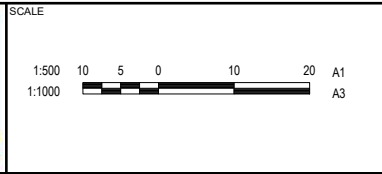


REFER SHEET 2 FOR CONTINUATION

REFER SHEET 4 FOR CONTINUATION

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	12.09.24	PM	DH	ORIGINAL ISSUE

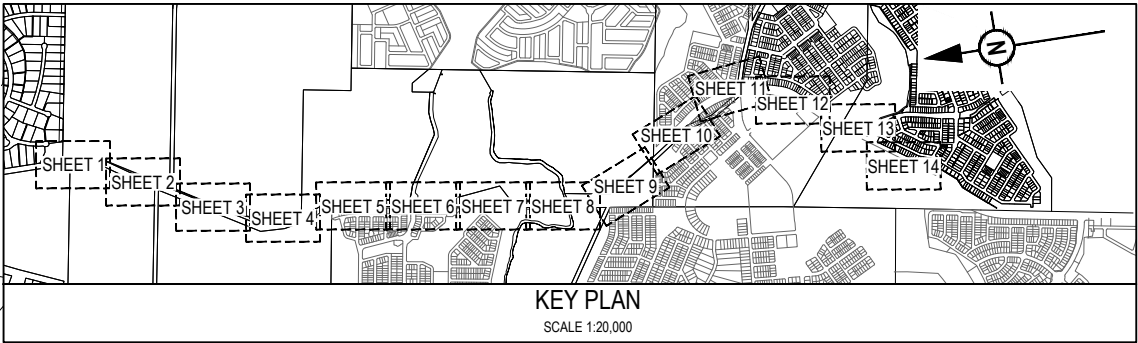
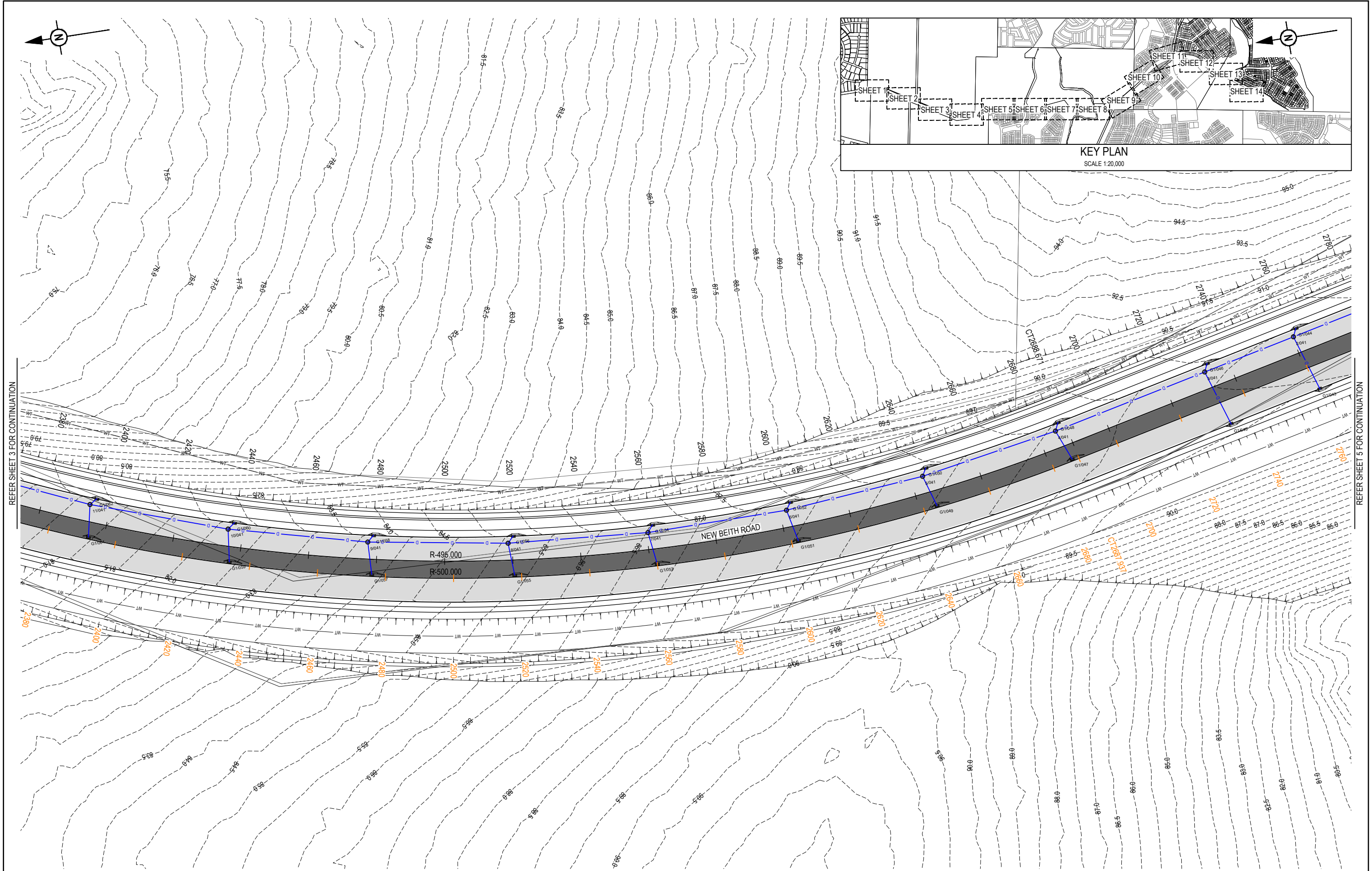
DRAWN	STATUS
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION
DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24
PM	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD



CLIENT
PEET FLAGSTONE CITY PTY. LTD.
ASSOCIATED CONSULTANT
VERIS (07) 3666 4700

PROJECT NAME
NEW BEITH ROAD - FLAGSTONE
HOMESTEAD DRIVE FLAGSTONE

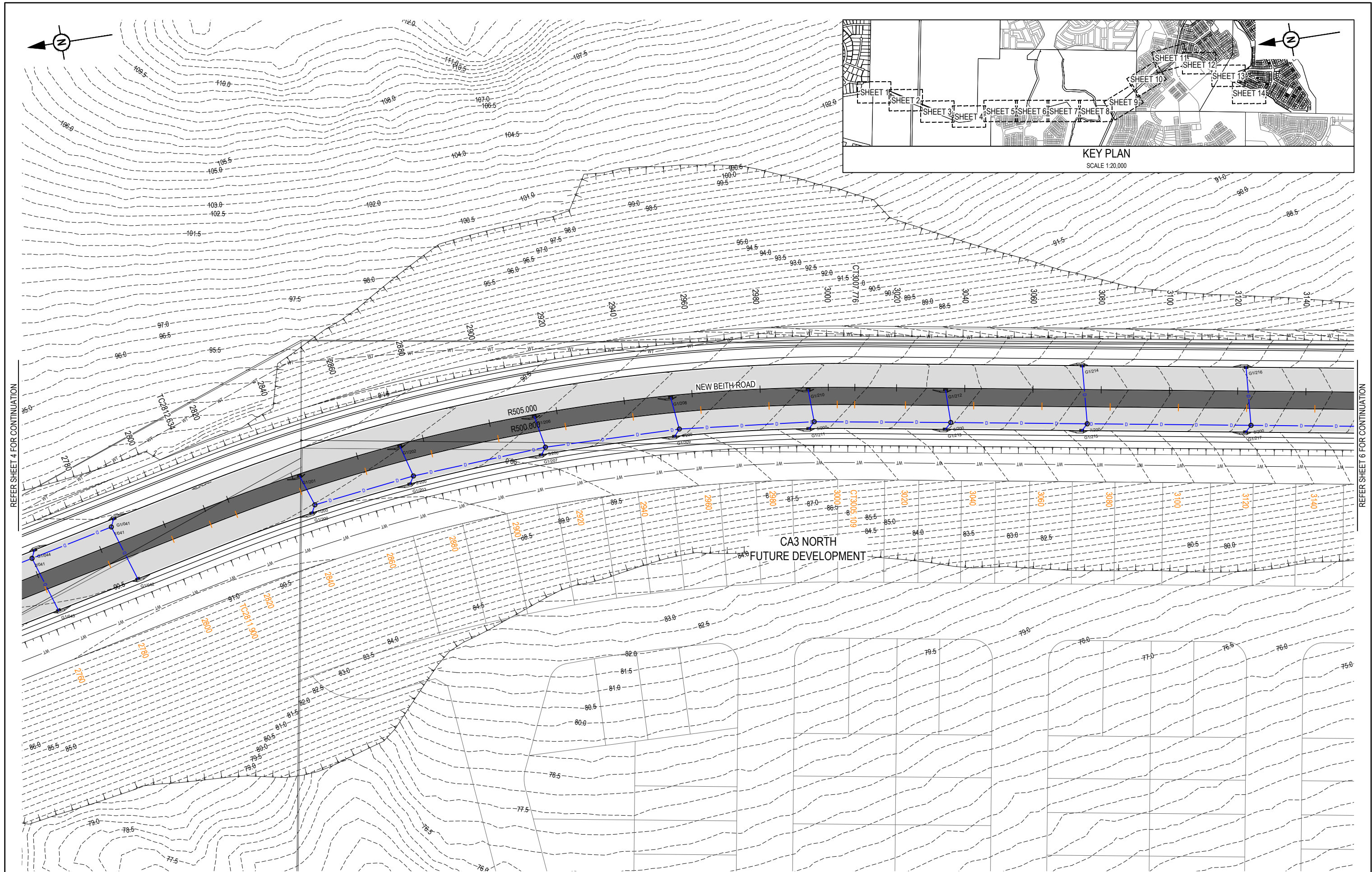
DRAWING TITLE		
ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 3 OF 14		
PROJECT No.	DRAWING No.	REVISION
22-0145	P122	A



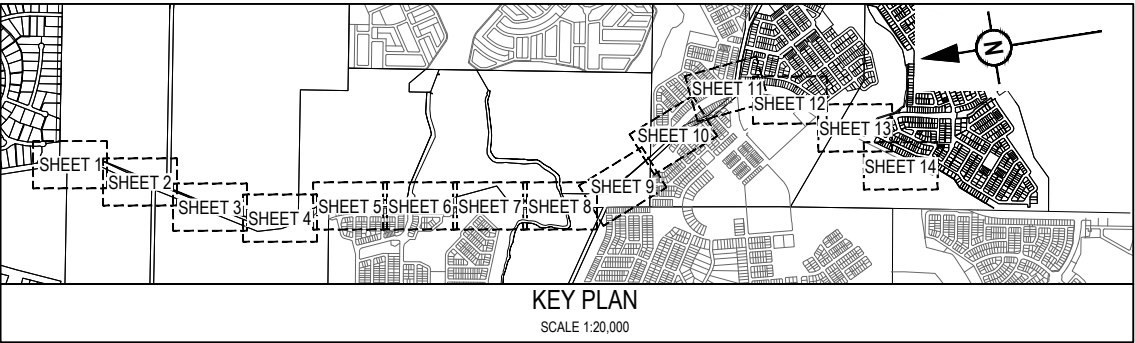
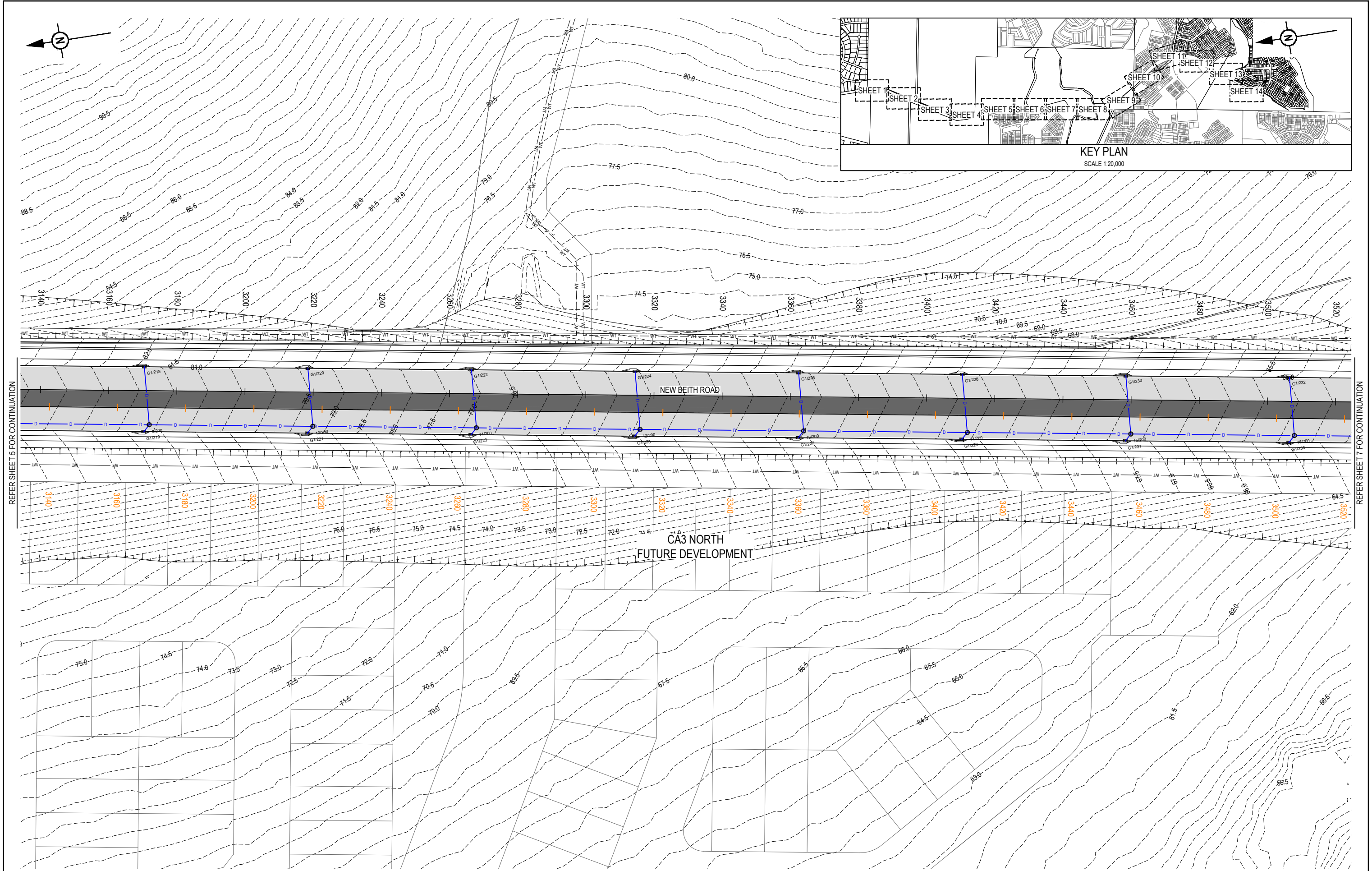
REFER SHEET 3 FOR CONTINUATION

REFER SHEET 5 FOR CONTINUATION

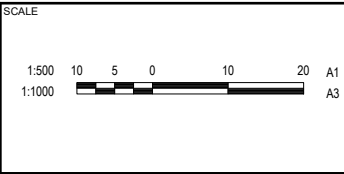
REV				DATE	DESIGN	DRAWN	REVISION DETAILS				DRAWN	STATUS		SCALE				CLIENT		PROJECT NAME		DRAWING TITLE				
A	12.09.24	PM	DH	ORIGINAL ISSUE								DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION						PEET FLAGSTONE CITY PTY. LTD.		NEW BEITH ROAD - FLAGSTONE		ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 4 OF 14			
												DESIGN	APPROVED DANIEL COLLINS	RPEQ 18631	DATE 12.09.24	1:500 1:1000										
												PM							ASSOCIATED CONSULTANT VERIS (07) 3666 4700		HOMESTEAD DRIVE FLAGSTONE		PROJECT No. 22-0145			
												FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD										DRAWING No. P123				
																						REVISION A				

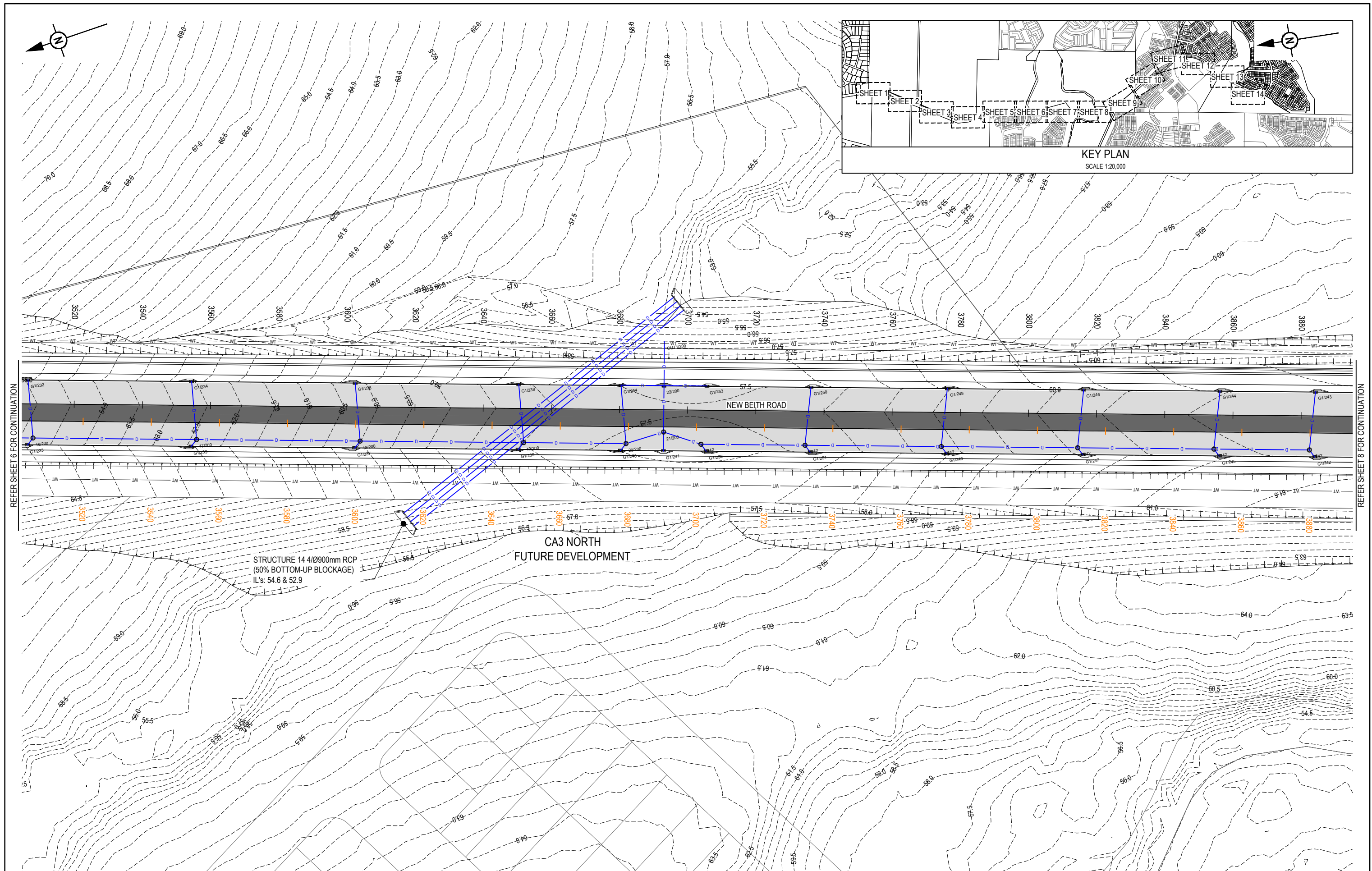


REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	CLIENT	PROJECT NAME	DRAWING TITLE
A	12.09.24	PM	DH	ORIGINAL ISSUE	DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 5 OF 14
					PM	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24	ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145 DRAWING No. P124 REVISION A

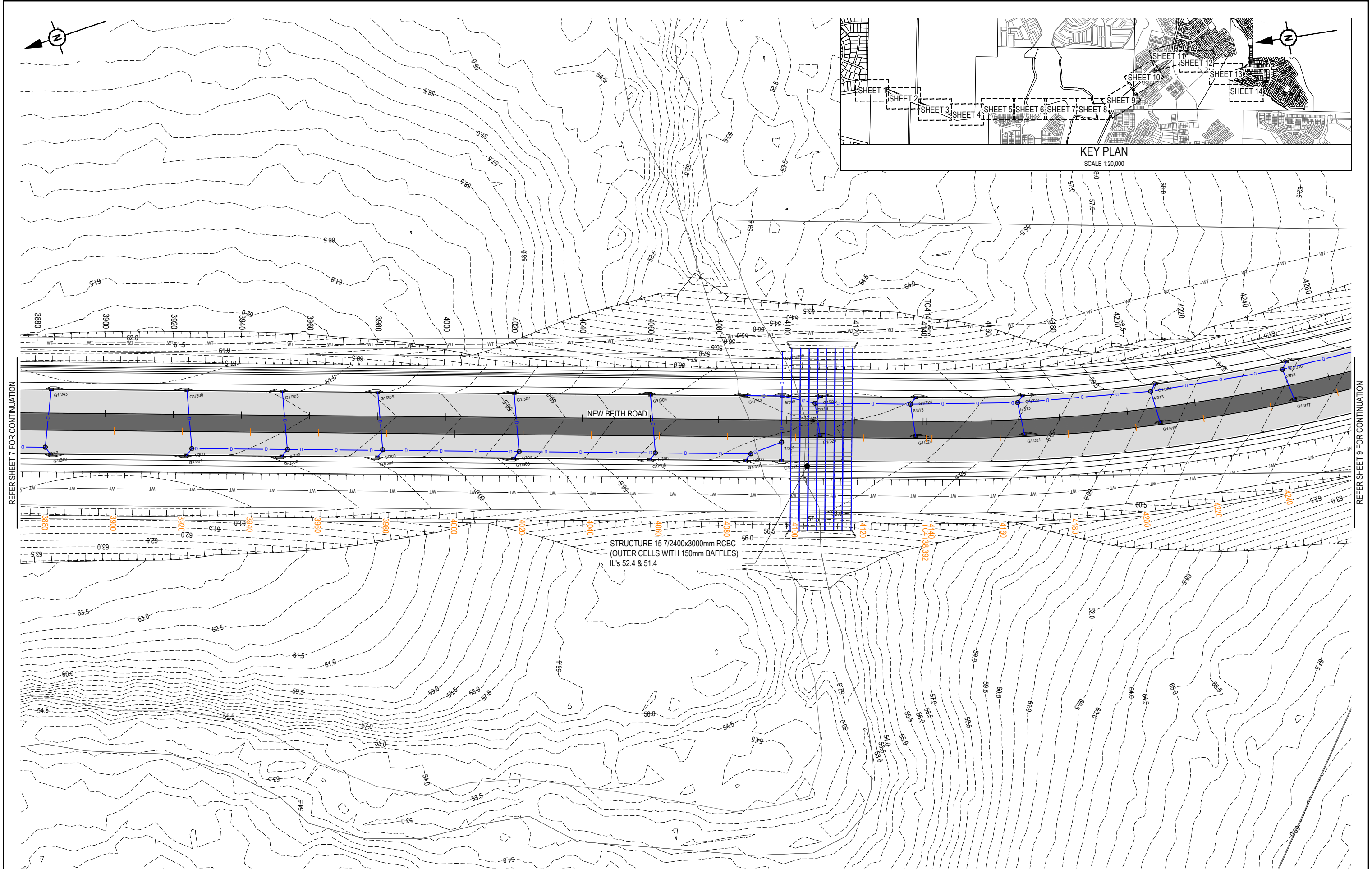


REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	CLIENT	PROJECT NAME	DRAWING TITLE
A	12.09.24	PM	DH	ORIGINAL ISSUE	DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 6 OF 14
					PM	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24	ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145
						FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD			DRAWING No. P125
									REVISION A





REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE 1:50010501020A1 1:1000	CLIENT PEET FLAGSTONE CITY PTY. LTD.	PROJECT NAME NEW BEITH ROAD - FLAGSTONE	DRAWING TITLE ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 7 OF 14				
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION						ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P126	REVISION A
						DESIGN	APPROVED DANIEL COLLINS  RPEQ 18631 DATE 12.09.24 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD										

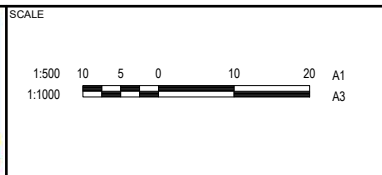


REFER SHEET 7 FOR CONTINUATION

REFER SHEET 9 FOR CONTINUATION

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	12.09.24	PM	DH	ORIGINAL ISSUE

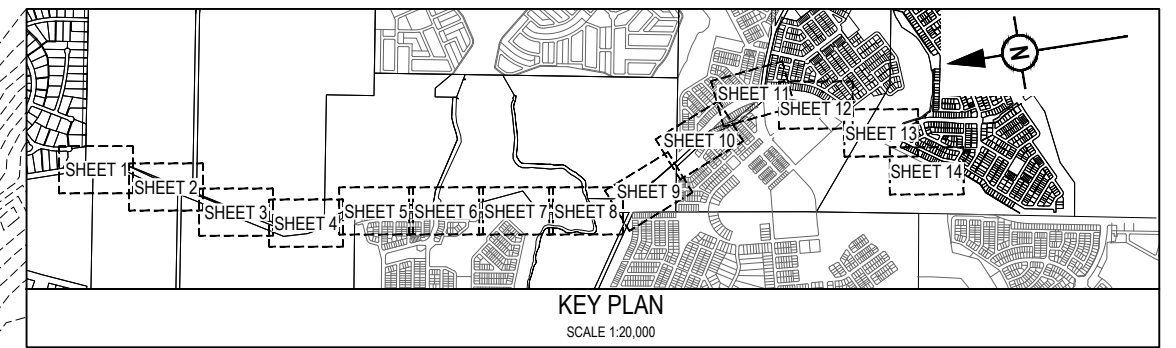
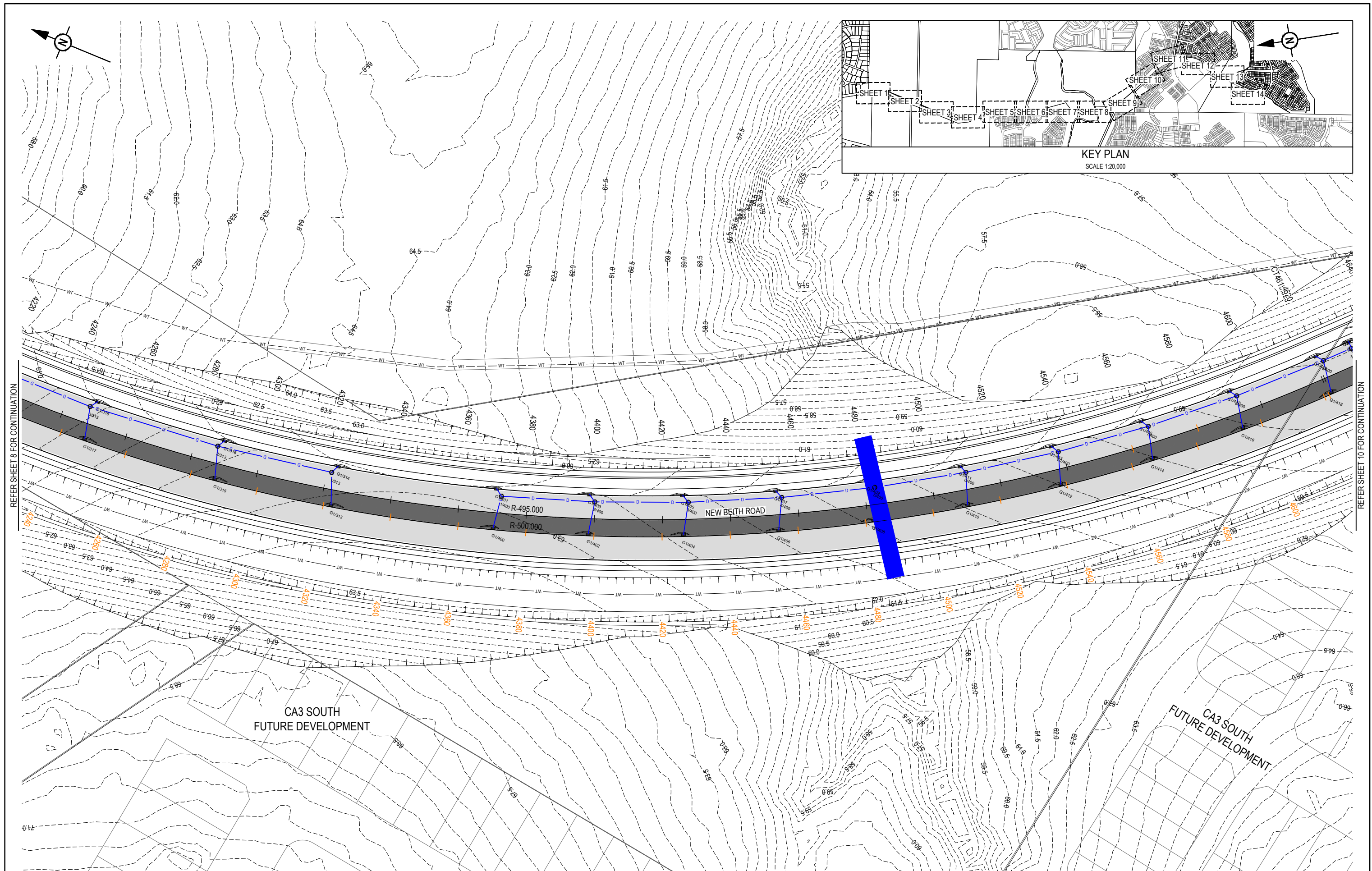
DRAWN	STATUS
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION
DESIGN	APPROVED
PM	DANIEL COLLINS RPEQ 18631 DATE 12.09.24 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD

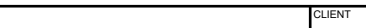


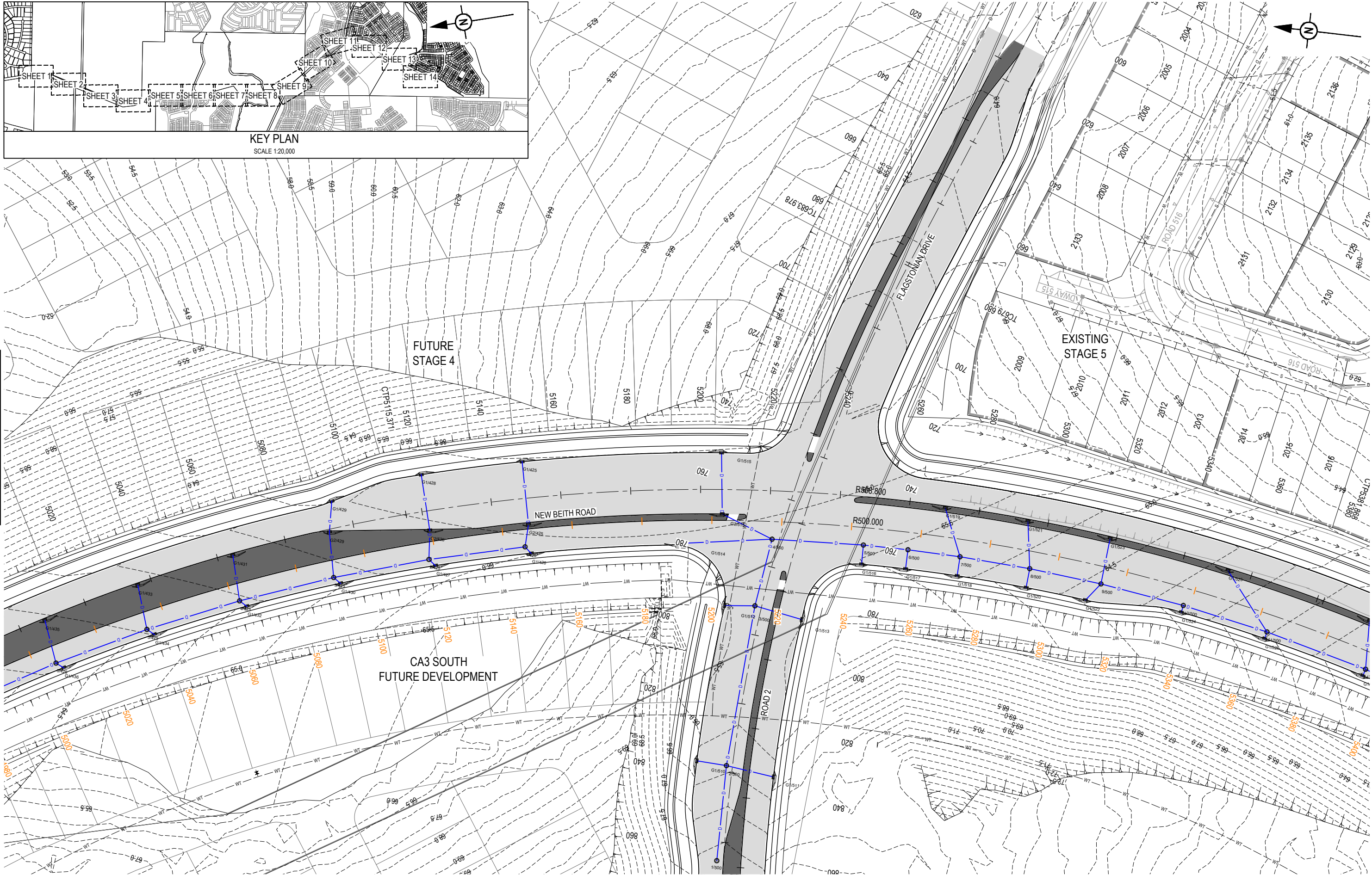
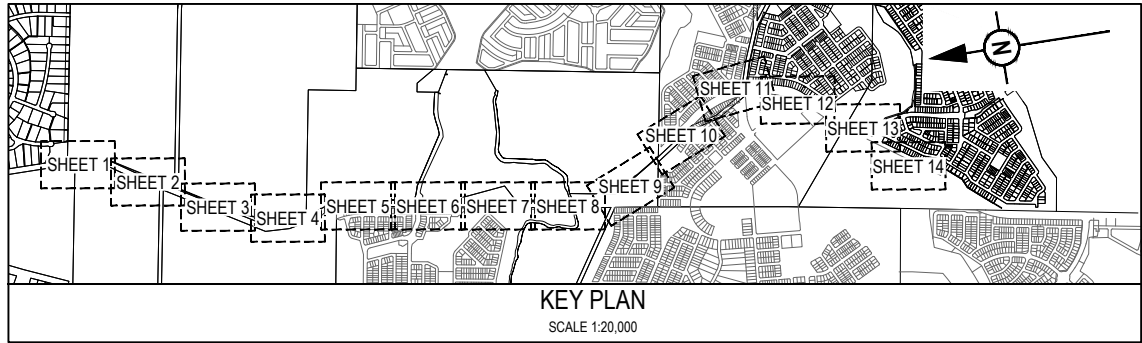
CLIENT
PEET FLAGSTONE CITY PTY. LTD.
ASSOCIATED CONSULTANT
VERIS (07) 3666 4700

PROJECT NAME
NEW BEITH ROAD - FLAGSTONE
HOMESTEAD DRIVE FLAGSTONE

DRAWING TITLE		
ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 8 OF 14		
PROJECT No.	DRAWING No.	REVISION
22-0145	P127	A



REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE 1:500 10 5 0 10 20 1:1000 A1 A3	CLIENT	PROJECT NAME	DRAWING TITLE						
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION				PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 9 OF 14						
						DESIGN	APPROVED	DATE											
						PM	DANIEL COLLINS	RPEQ 18631	12.09.24										
						FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD													
															ASSOCIATED CONSULTANT	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P128	REVISION A
															VERIS (07) 3666 4700				

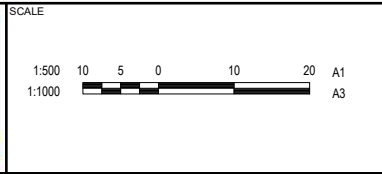


REFER SHEET 10 FOR CONTINUATION

REFER SHEET 12 FOR CONTINUATION

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	12.09.24	PM	DH	ORIGINAL ISSUE

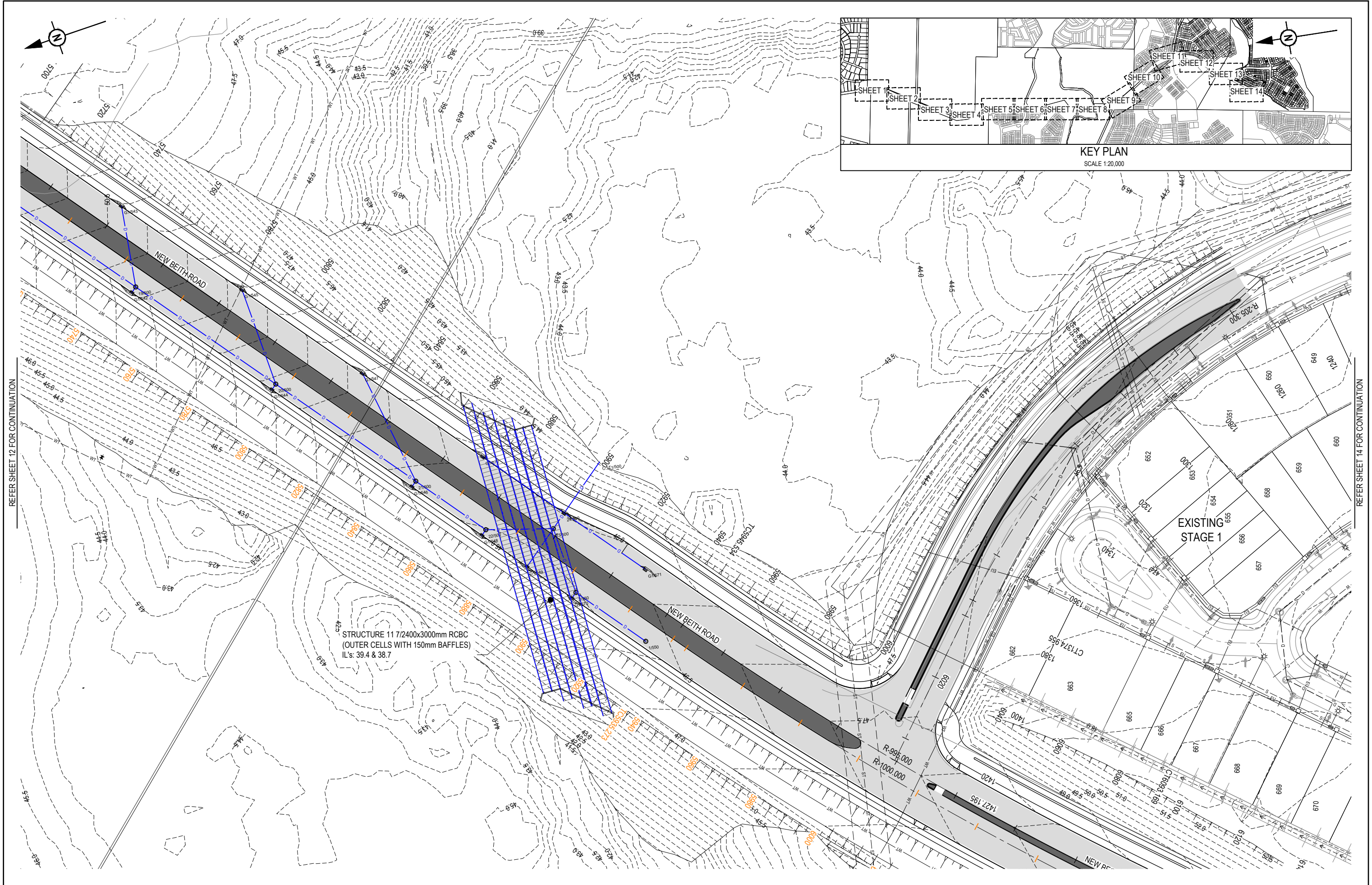
DRAWN	STATUS
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION
DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24
PM	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD



CLIENT
PEET FLAGSTONE CITY PTY. LTD.
ASSOCIATED CONSULTANT
VERIS (07) 3666 4700

PROJECT NAME
NEW BEITH ROAD - FLAGSTONE
HOMESTEAD DRIVE FLAGSTONE

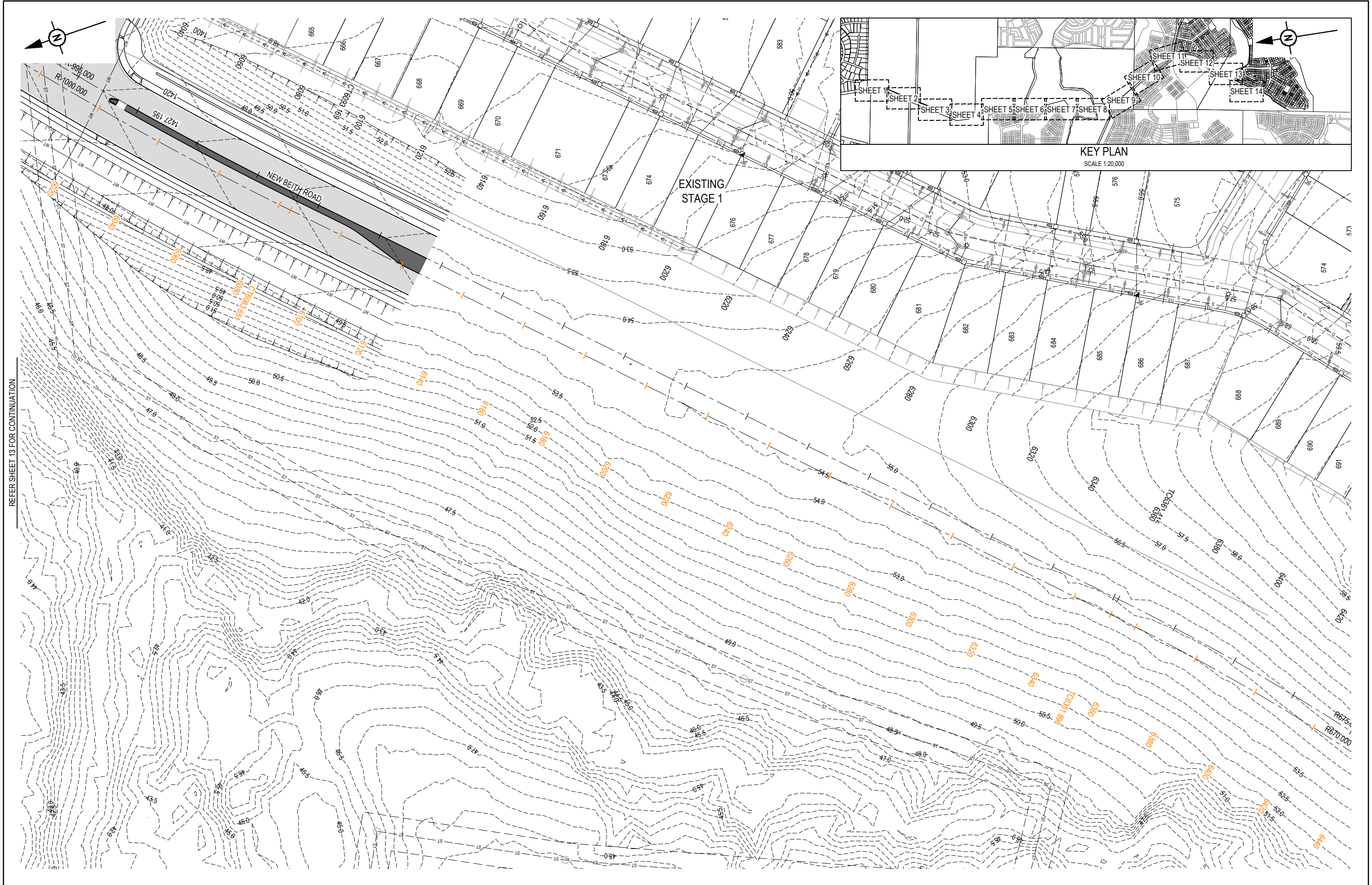
DRAWING TITLE
ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 11 OF 14
PROJECT No.
22-0145
DRAWING No.
P130
REVISION
A



REFER SHEET 12 FOR CONTINUATION

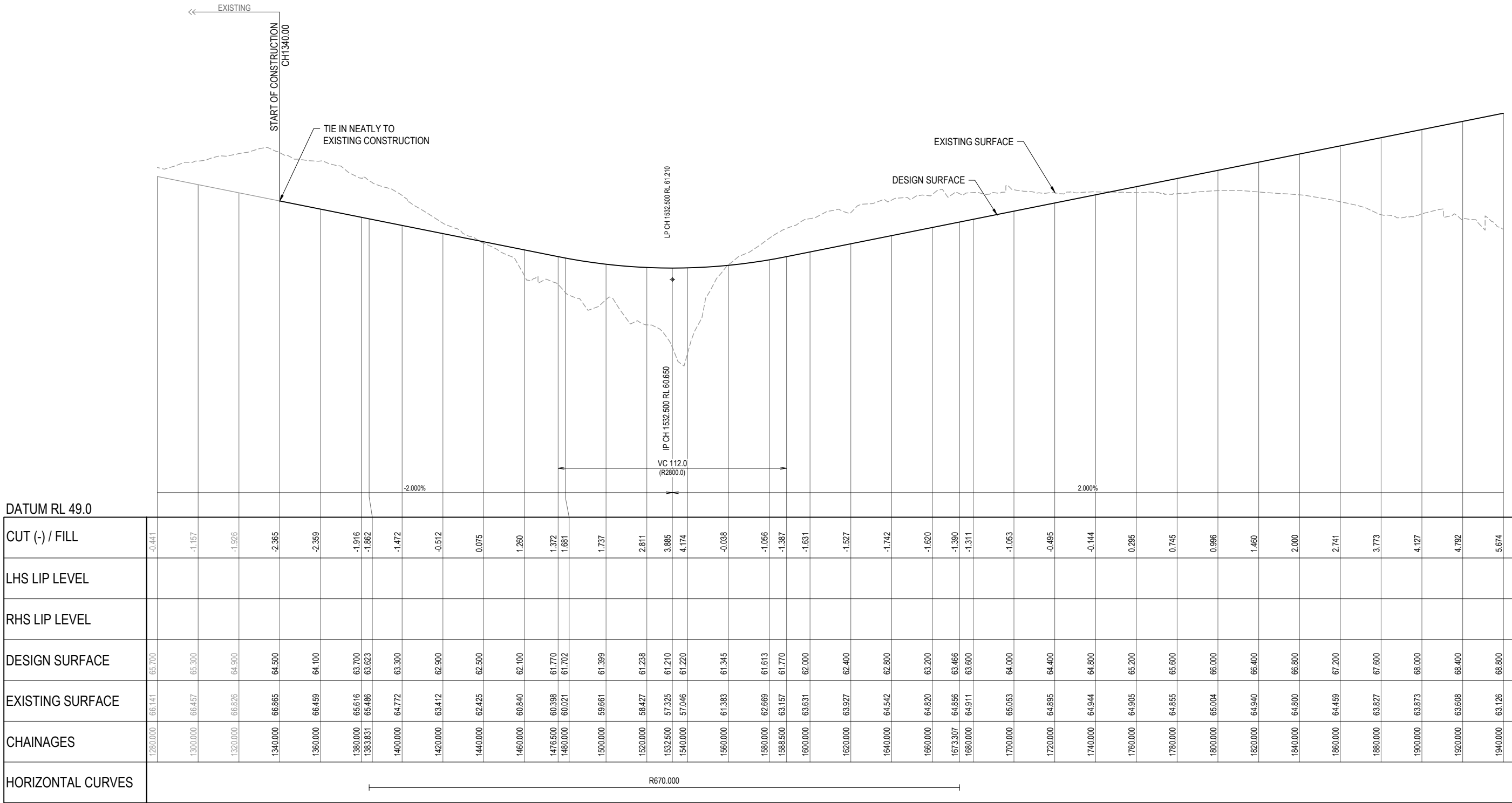
REFER SHEET 14 FOR CONTINUATION

REVISION DETAILS				DRAWN	STATUS			CLIENT	PROJECT NAME	DRAWING TITLE		
REV	DATE	DESIGN	DRAWN	ORIGINAL ISSUE							FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	
A	12.09.24	PM	DH									
								PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 13 OF 14		
								ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145		
										DRAWING No. P132		
										REVISION A		



REFER SHEET 13 FOR CONTINUATION

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE		CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		1:500 1:1000		A1 A3		PEET FLAGSTONE CITY PTY. LTD.	ULTIMATE ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 14 OF 14	
						PM	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24  FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD		ASSOCIATED CONSULTANT VERIS (07) 3666 4700		HOMESTEAD DRIVE FLAGSTONE			PROJECT No. 22-0145	DRAWING No. P133

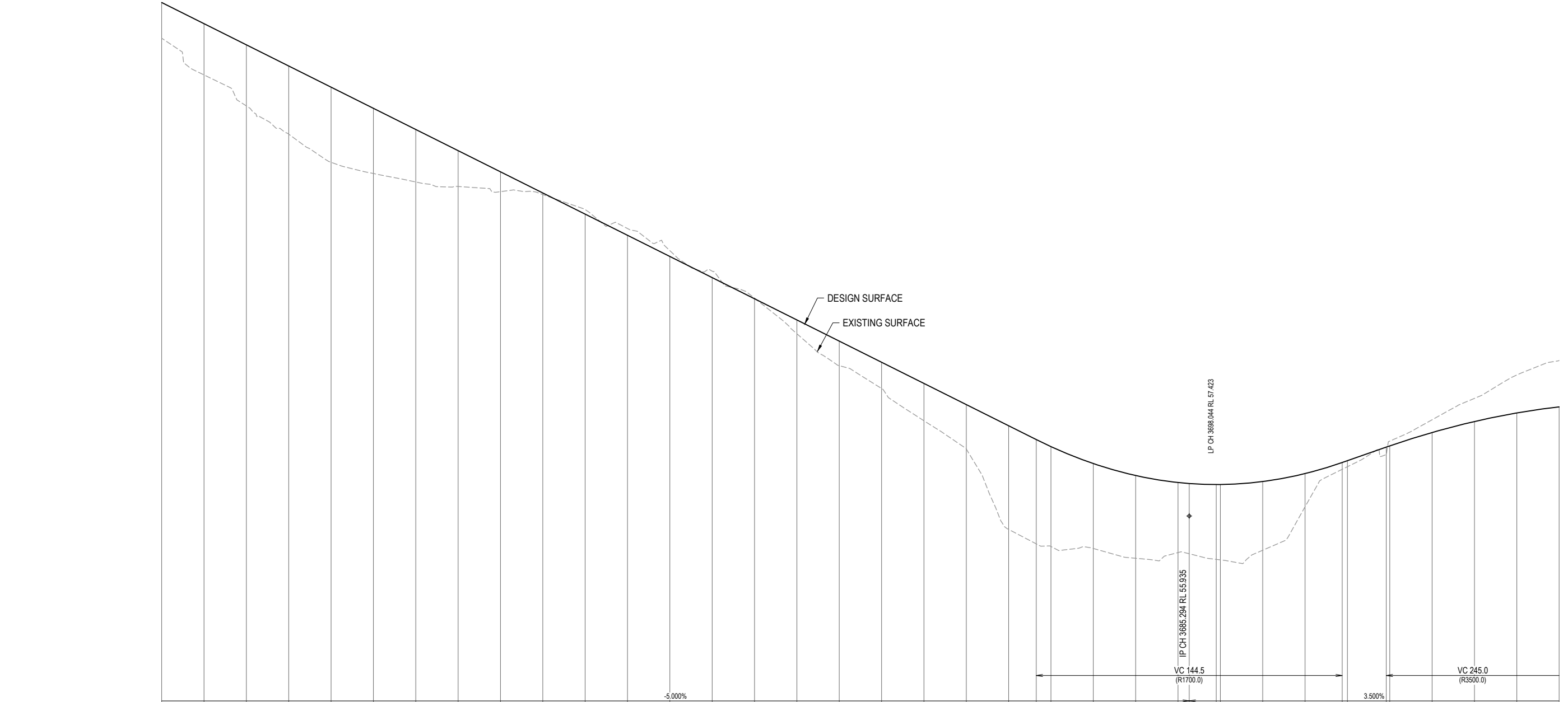


NEW BEITH RD

REV	DATE	DESIGN	DRAWN	REVISION DETAILS				DRAWN	STATUS				SCALE				CLIENT		PROJECT NAME		DRAWING TITLE				
A	12.09.24	PM	DH	ORIGINAL ISSUE				DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION								1:1000 1:2000 HORIZONTAL		PEET FLAGSTONE CITY PTY. LTD.		NEW BEITH ROAD - FLAGSTONE		NEW BEITH ROAD LONGITUDINAL SECTION SHEET 1 OF 8		
								DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24																
								PM	 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD								ASSOCIATED CONSULTANT VERIS (07) 3666 4700		HOMESTEAD DRIVE FLAGSTONE		PROJECT No. 22-0145	DRAWING No. P140	REVISION A		



REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE		CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24		PM	DH	ORIGINAL ISSUE	DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		1:1000 10 0 10 20 30 40 50 A1 1:2000 A3 HORIZONTAL 1:100 2 1 0 2 4 A1 1:200 A3 VERTICAL		PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	NEW BEITH ROAD LONGITUDINAL SECTION SHEET 2 OF 8		
						PM	APPROVED DANIEL COLLINS RPEQ 18631  DATE 12.09.24 FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD				ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P141	REVISION A



DATUM RL 46.0	
CUT (-) / FILL	1.687 2.423 2.887 3.222 3.550 3.080 2.481 1.694 0.938 0.075 -0.215 -0.320 -0.276 -0.305 -0.030 0.652 1.160 1.238 1.763 2.097 4.897 4.927 4.719 4.011 3.909 3.310 3.318 3.535 3.559 3.245 1.568 0.321 0.285 0.356 -0.225 -0.601 -1.092 -1.792 -2.185
LHS LIP LEVEL	
RHS LIP LEVEL	
DESIGN SURFACE	80.200 79.200 78.200 77.200 76.200 75.200 74.200 73.200 72.200 71.200 70.200 69.200 68.200 67.200 66.200 65.200 64.200 63.200 62.200 61.200 60.200 59.548 59.214 58.414 57.848 57.519 57.471 57.423 57.424 57.565 57.941 58.464 58.550 59.192 59.250 59.883 60.402 60.807 61.098
EXISTING SURFACE	78.513 76.777 75.313 73.978 72.650 72.120 71.719 71.506 71.262 71.125 70.415 69.520 68.476 67.505 66.230 64.548 63.040 61.962 60.437 59.103 55.303 54.621 54.495 54.403 53.940 54.208 54.153 53.888 53.864 54.320 56.372 58.143 58.265 58.836 59.475 60.484 61.494 62.600 63.283
CHAINAGES	3200.000 3220.000 3240.000 3260.000 3280.000 3300.000 3320.000 3340.000 3360.000 3380.000 3400.000 3420.000 3440.000 3460.000 3480.000 3500.000 3520.000 3540.000 3560.000 3580.000 3600.000 3613.044 3620.000 3640.000 3660.000 3680.000 3685.294 3698.044 3700.000 3720.000 3740.000 3757.544 3760.000 3778.354 3780.000 3800.000 3820.000 3840.000 3860.000
HORIZONTAL CURVES	

NEW BEITH RD

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	12.09.24	PM	DH	ORIGINAL ISSUE

DRAWN	STATUS
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION
DESIGN	APPROVED
PM	DANIEL COLLINS RPEQ 18631  DATE 12.09.24
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD	



SCALE

1:1000 10 0 10 20 30 40 50 A1

1:2000  HORIZONTAL A3

1:100 2 1 0 2 4 A1

1:200  VERTICAL A3

CLIENT

PEET FLAGSTONE CITY PTY. LTD.

ASSOCIATED CONSULTANT

VERIS
(07) 3666 4700

PROJECT NAME

NEW BEITH ROAD - FLAGSTONE

HOMESTEAD DRIVE
FLAGSTONE

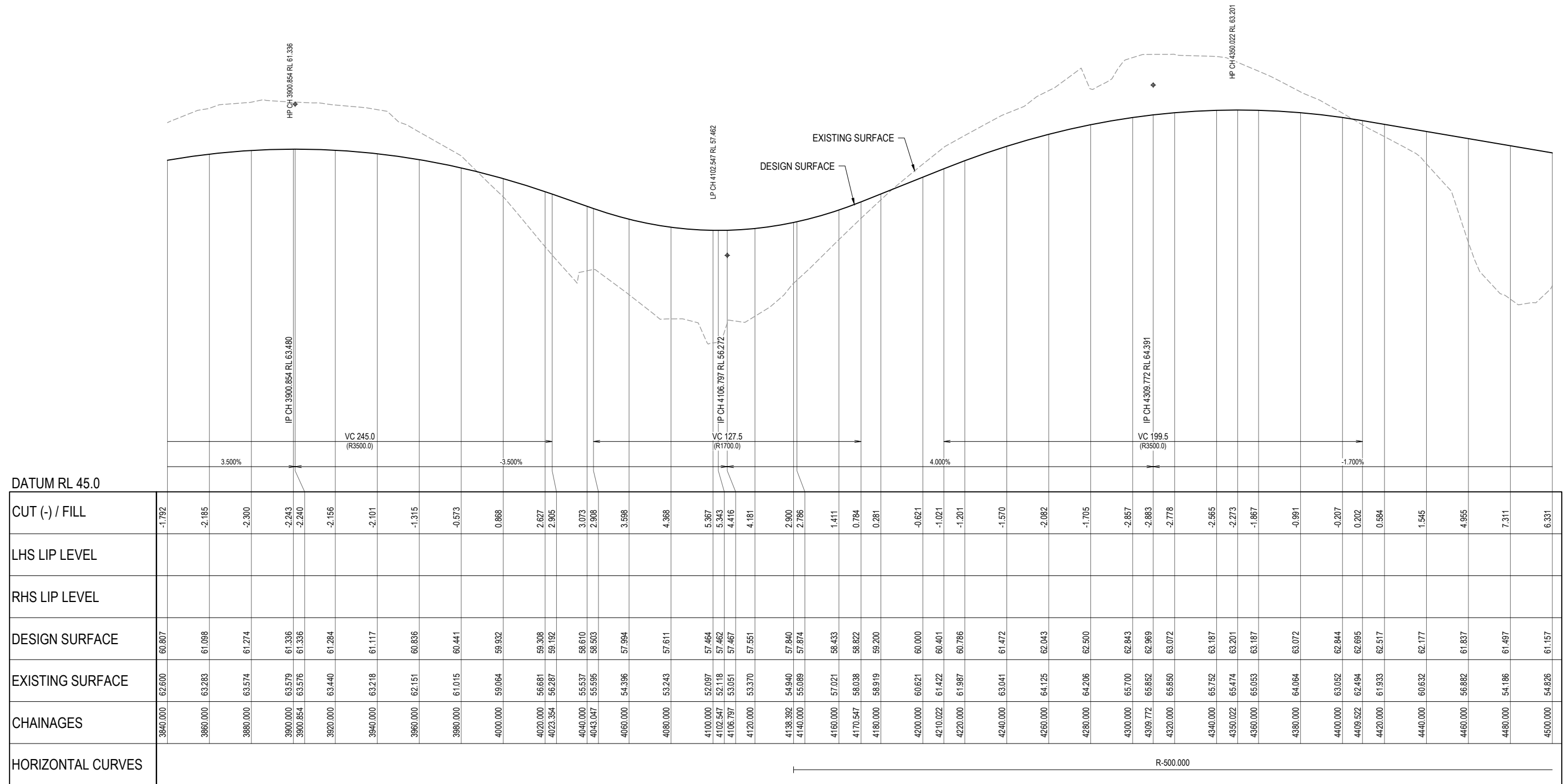
DRAWING TITLE

NEW BEITH ROAD LONGITUDINAL
SECTION SHEET 4 OF 8

PROJECT No.
22-0145

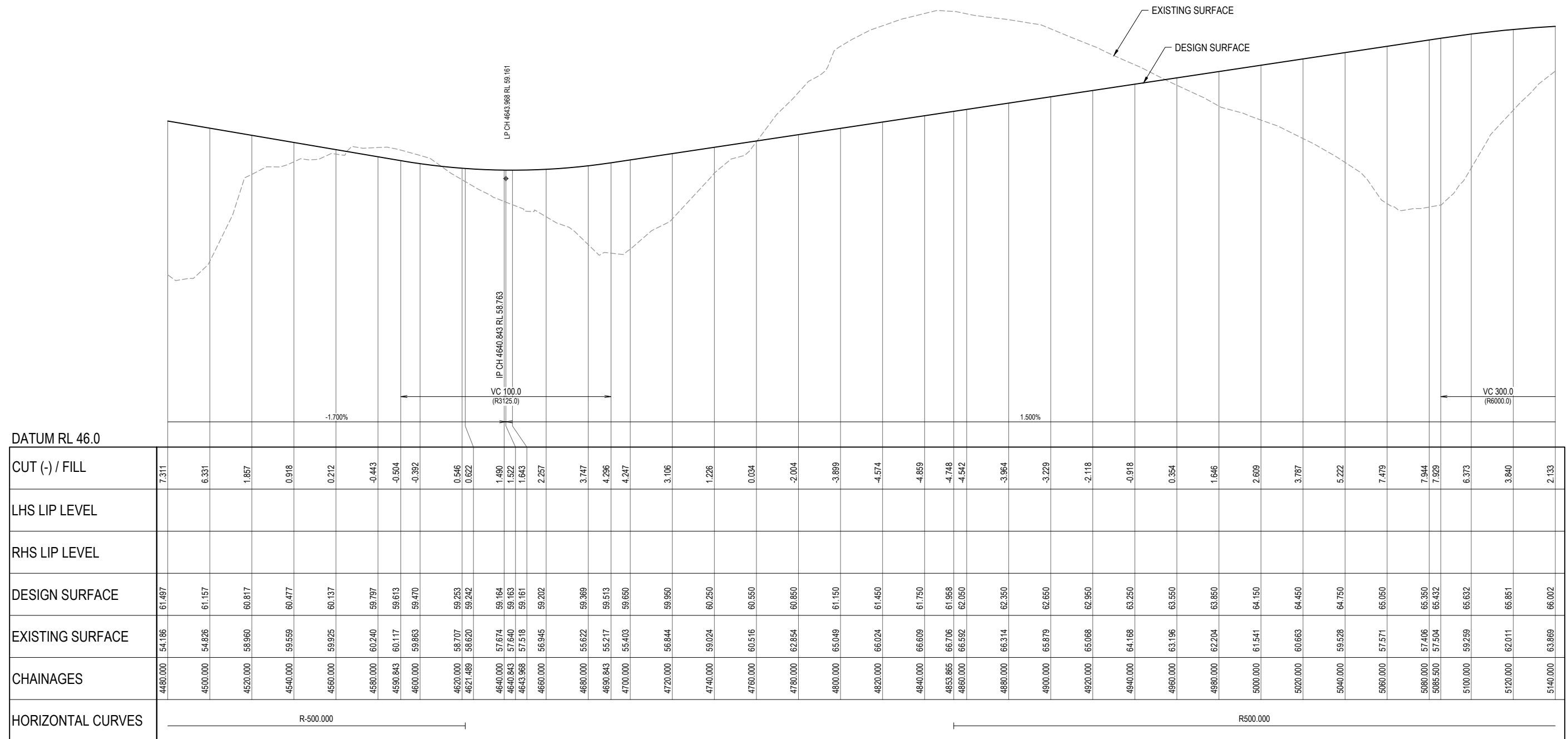
DRAWING No.
P143

REVISION
A



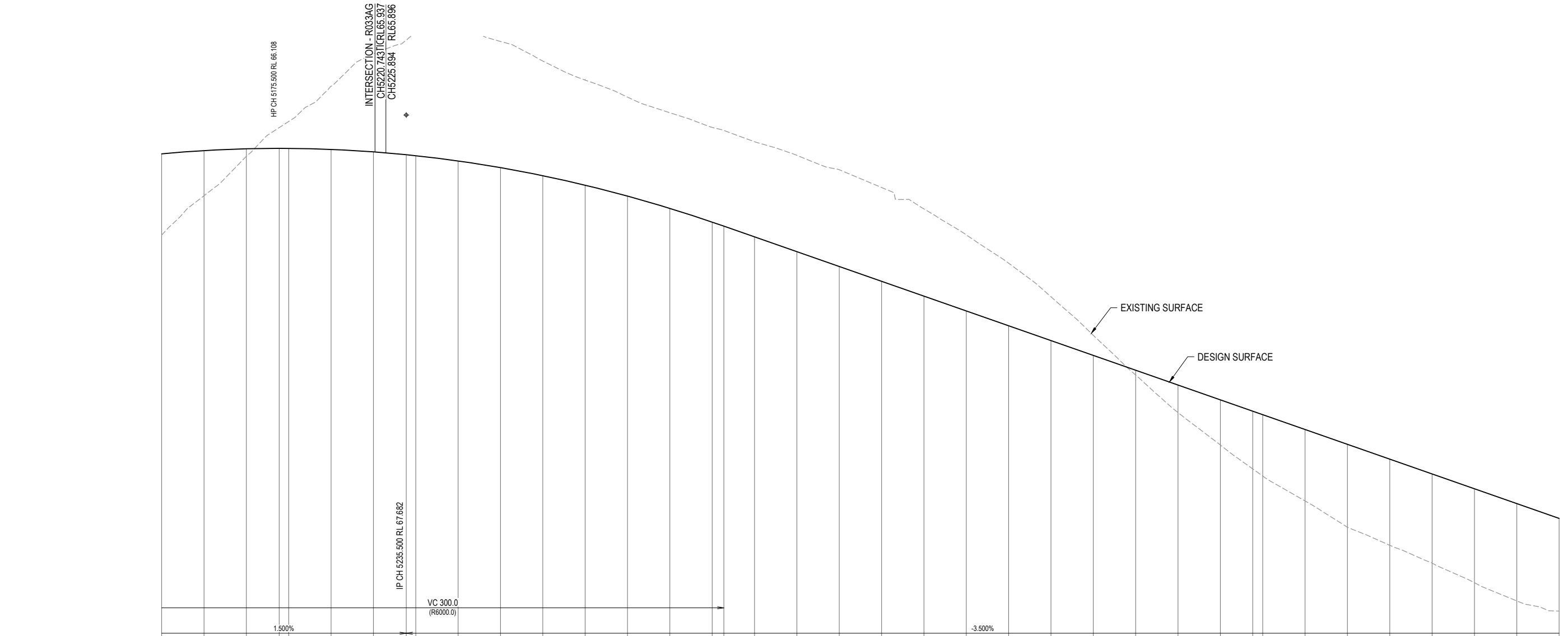
NEW BEITH RD

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE 1:10001001020304050A1 1:2000HORIZONTALA3 1:10021024A1 1:200VERTICALA3	CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	NEW BEITH ROAD LONGITUDINAL SECTION SHEET 5 OF 8		
						DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24		ASSOCIATED CONSULTANT VERIS (07) 3666 4700		HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P144	REVISION A
						PM	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD							



NEW BEITH RD

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE 1:10001001020304050A1 1:2000 HORIZONTAL A3 1:10021024A1 1:200 VERTICAL A3	CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	NEW BEITH ROAD LONGITUDINAL SECTION SHEET 6 OF 8		
						DESIGN	APPROVED DANIEL COLLINS RPEQ 18631  DATE 12.09.24 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD.		ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P145	REVISION A	



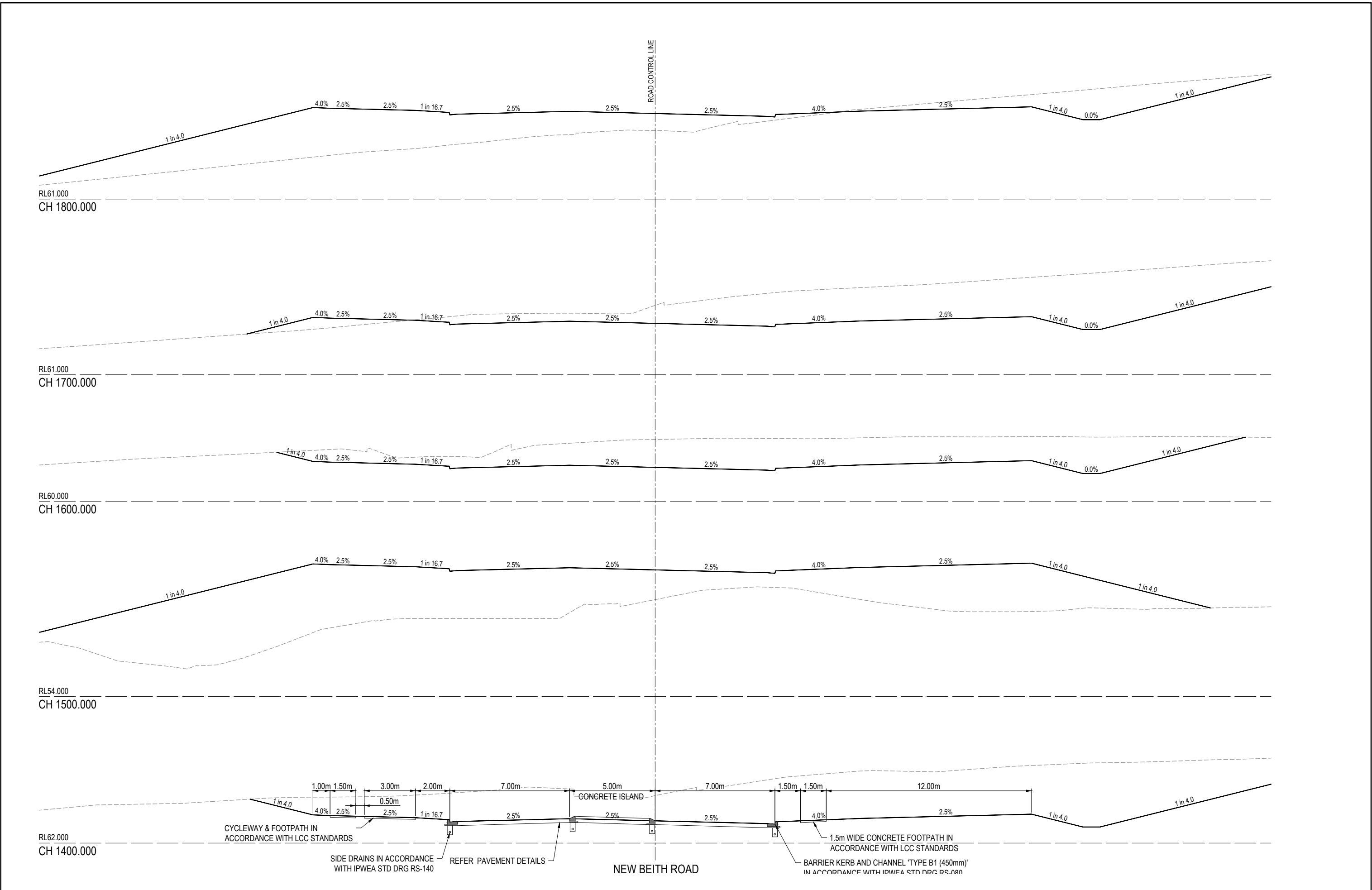
DATUM RL 32.0			
CUT (-) / FILL			
LHS LIP LEVEL			
RHS LIP LEVEL			
DESIGN SURFACE			
EXISTING SURFACE			
CHAINAGES			
HORIZONTAL CURVES			

REFER INTERSECTION DRAWINGS FOR LIP LEVELS

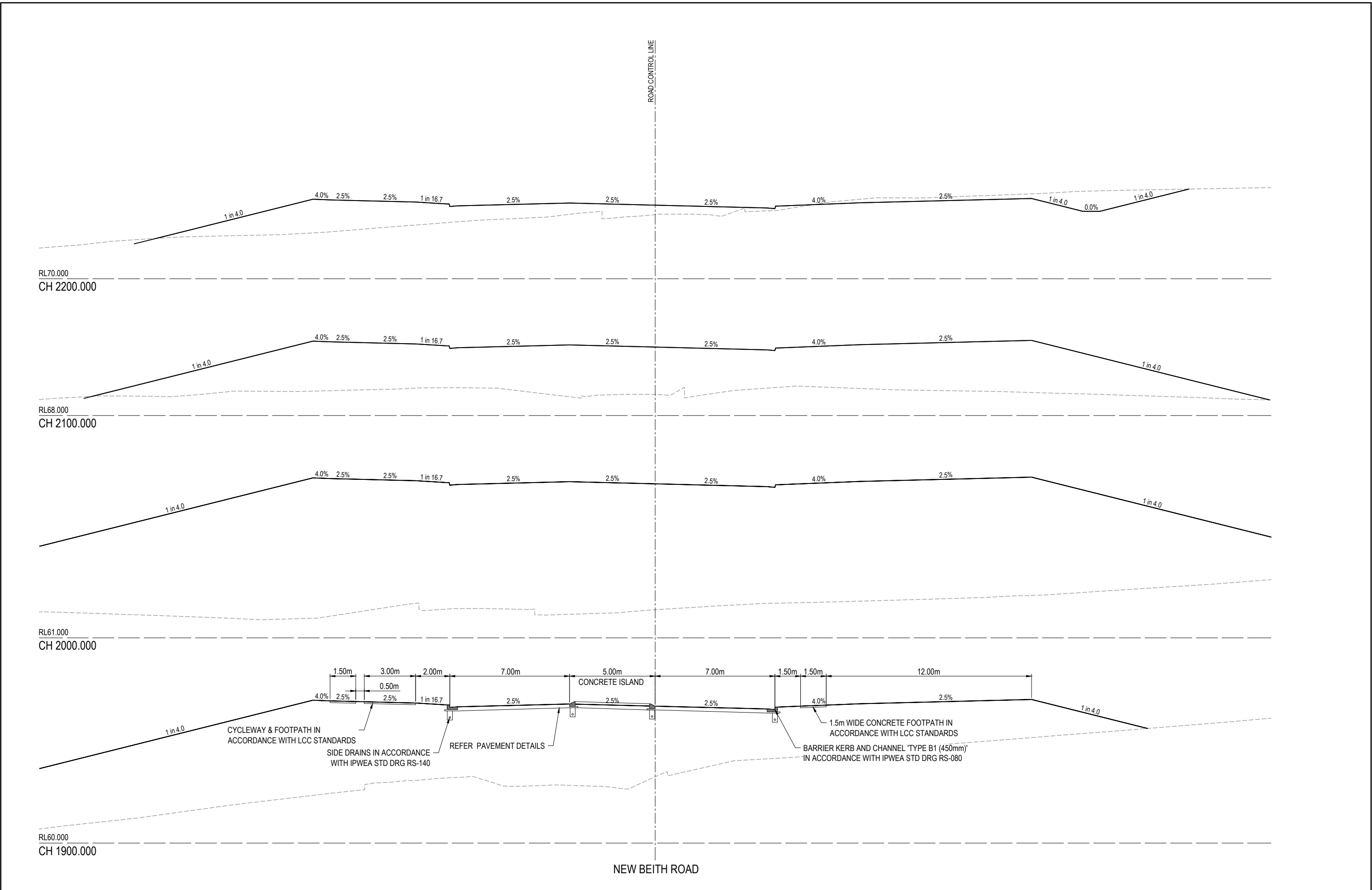
NEW BEITH RD

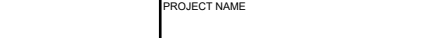


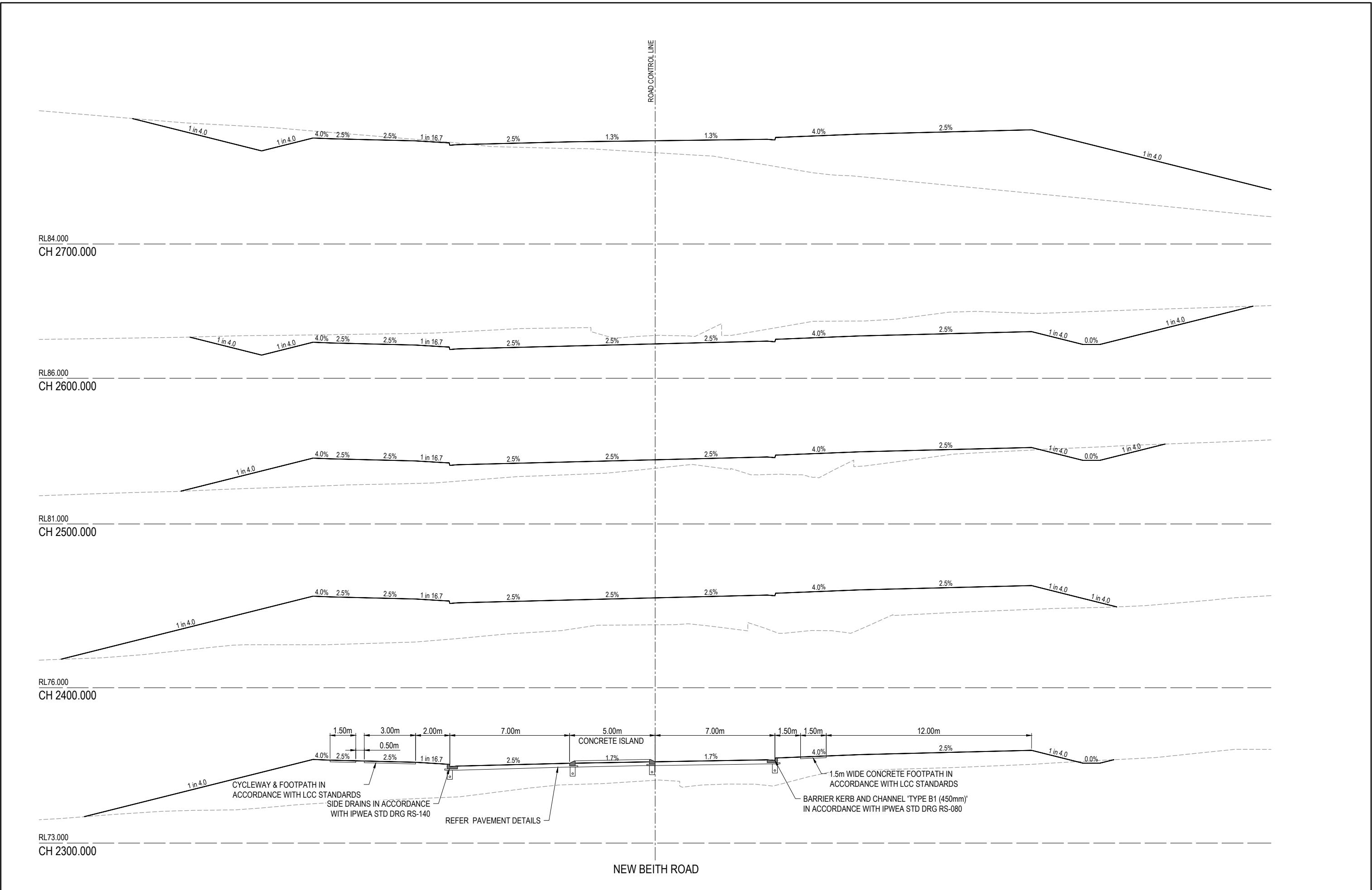
REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS	SCALE 1:1000 1:2000 01020304050 HORIZONTAL 1:100 1:200 21024 VERTICAL	CLIENT	PROJECT NAME	DRAWING TITLE					
A	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		PEET FLAGSTONE CITY PTY. LTD. ASSOCIATED CONSULTANT VERIS (07) 3666 4700	NEW BEITH ROAD - FLAGSTONE	NEW BEITH ROAD LONGITUDINAL SECTION SHEET 8 OF 8					

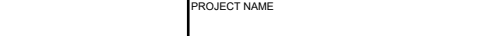
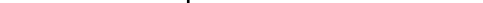


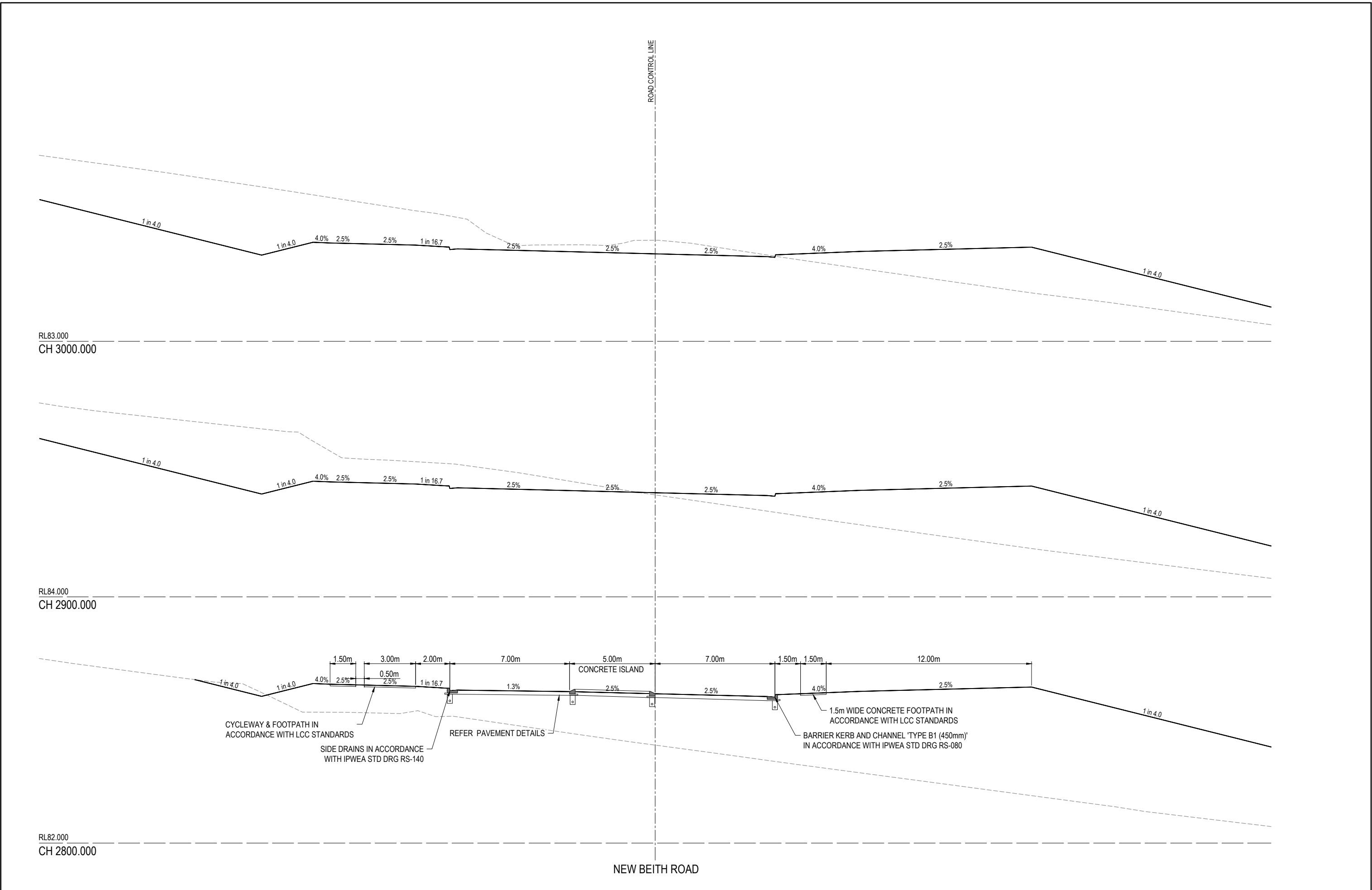
REVISION DETAILS				DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
REV	DATE	DESIGN	DRAWN		FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		1:100 1:200	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	NEW BEITH ROAD CROSS SECTIONS SHEET 1 OF 12		
A	12.09.24	PM	DH	ORIGINAL ISSUE								



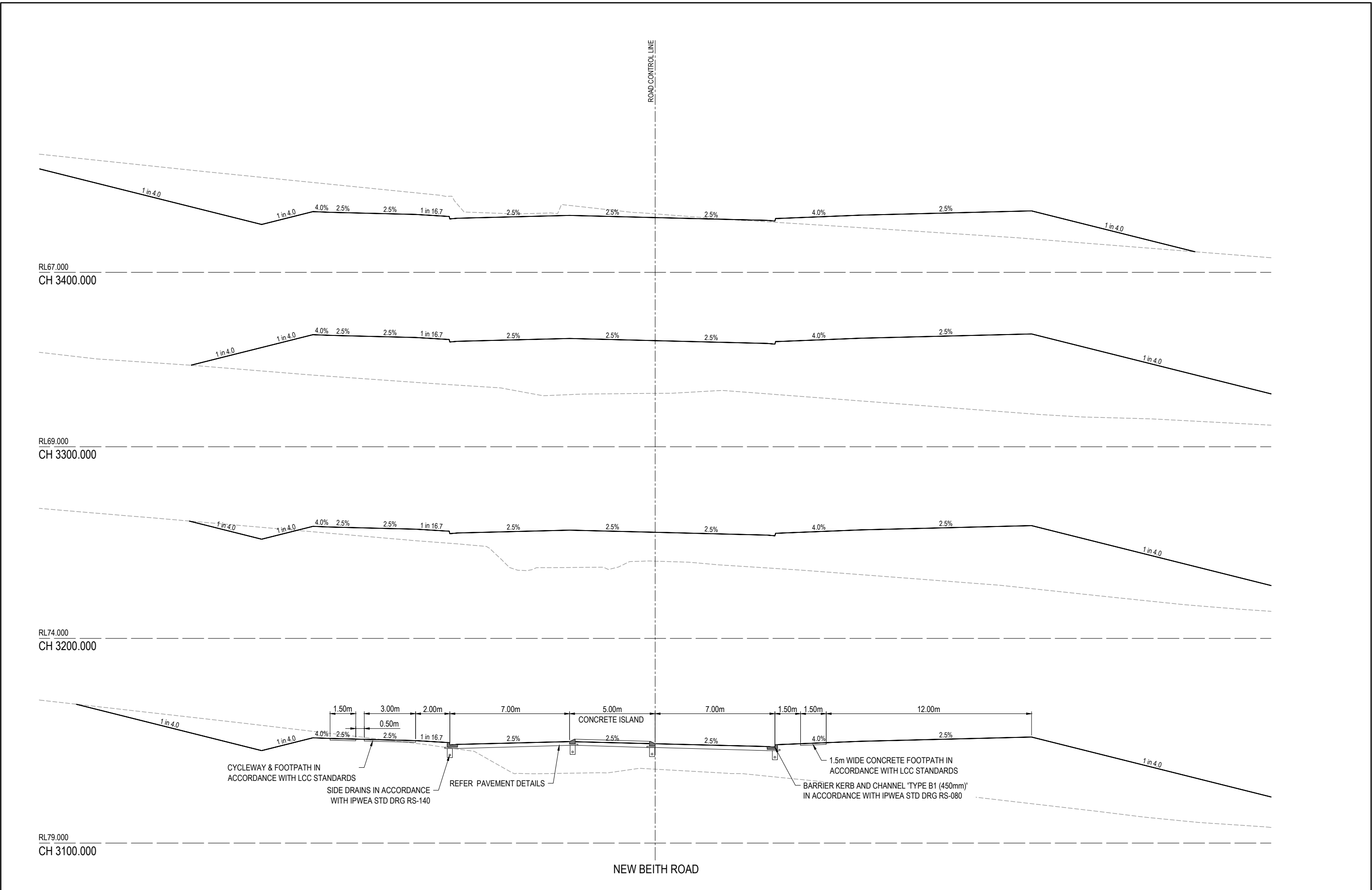
REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS		SCALE 1:100 1:200 10 1 2 3 4 5 A1 A3	CLIENT		PROJECT NAME		DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE		NEW BEITH ROAD CROSS SECTIONS SHEET 2 OF 12			
											ASSOCIATED CONSULTANT		HOMESTEAD DRIVE FLAGSTONE		PROJECT No.	DRAWING No.	REVISION
							PM	APPROVED DANIEL COLLINS  RPEQ 18631 DATE 12.09.24 FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD			VERIS (07) 3666 4700			22-0145	P149	A	



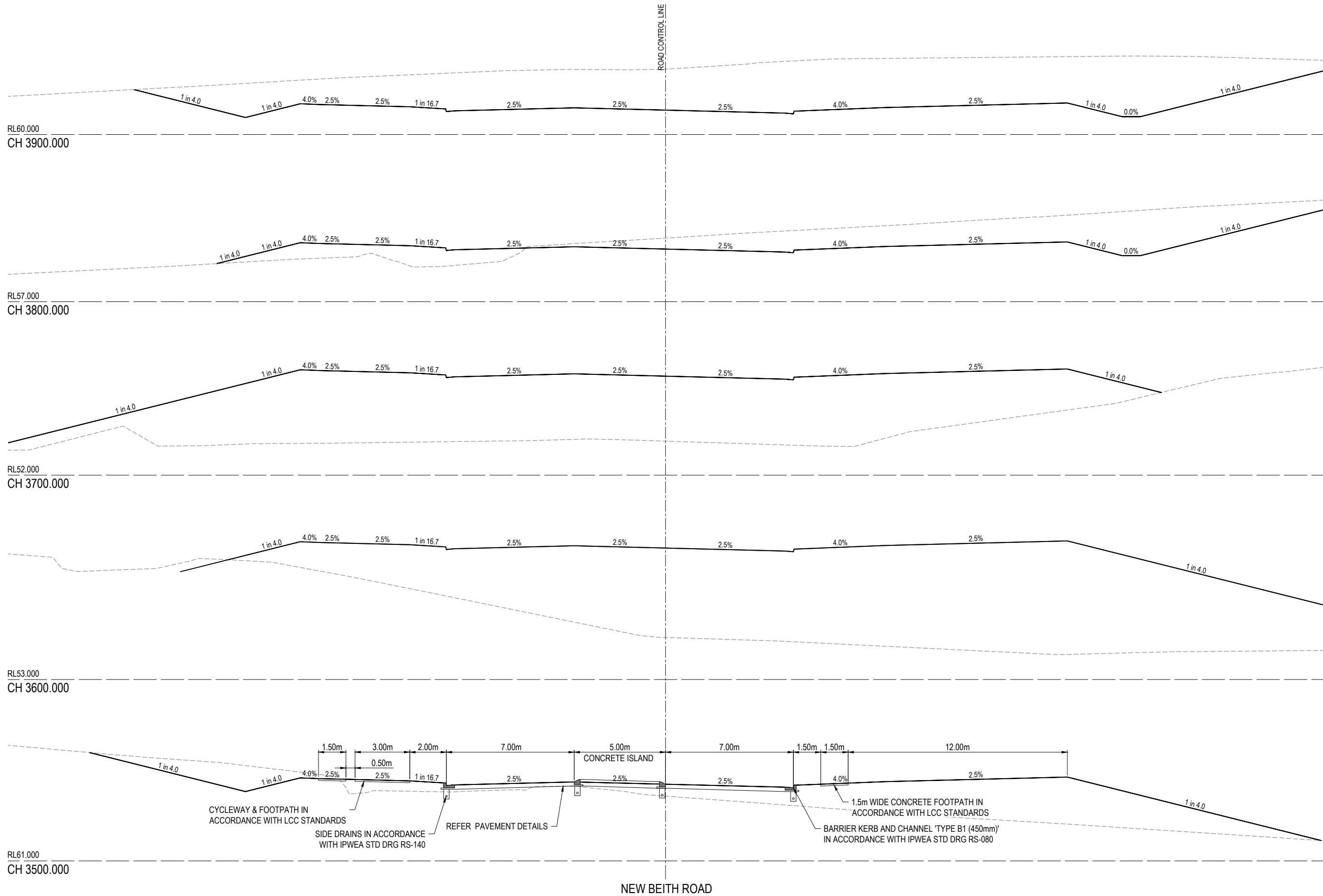
REV	DATE	DESIGN	DRAWN	REVISION DETAILS					DRAWN	STATUS					SCALE					CLIENT					PROJECT NAME					DRAWING TITLE														
A	12.09.24	PM	DH	ORIGINAL ISSUE					DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION										1:100 1 0 1 2 3 4 5 A1 1:200  A3					PEET FLAGSTONE CITY PTY. LTD.					NEW BEITH ROAD - FLAGSTONE					NEW BEITH ROAD CROSS SECTIONS SHEET 3 OF 12									
									DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24																																		
									PM	 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD										ASSOCIATED CONSULTANT VERIS (07) 3666 4700					HOMESTEAD DRIVE FLAGSTONE					PROJECT No. 22-0145					DRAWING No. P150					REVISION A				



REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS		SCALE 1:100 1:200  A1 A3	CLIENT		PROJECT NAME		DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	NEW BEITH ROAD CROSS SECTIONS SHEET 4 OF 12				
							PM	APPROVED DANIEL COLLINS  RPEQ 18631 DATE 12.09.24			ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P151	REVISION A		
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD.																	

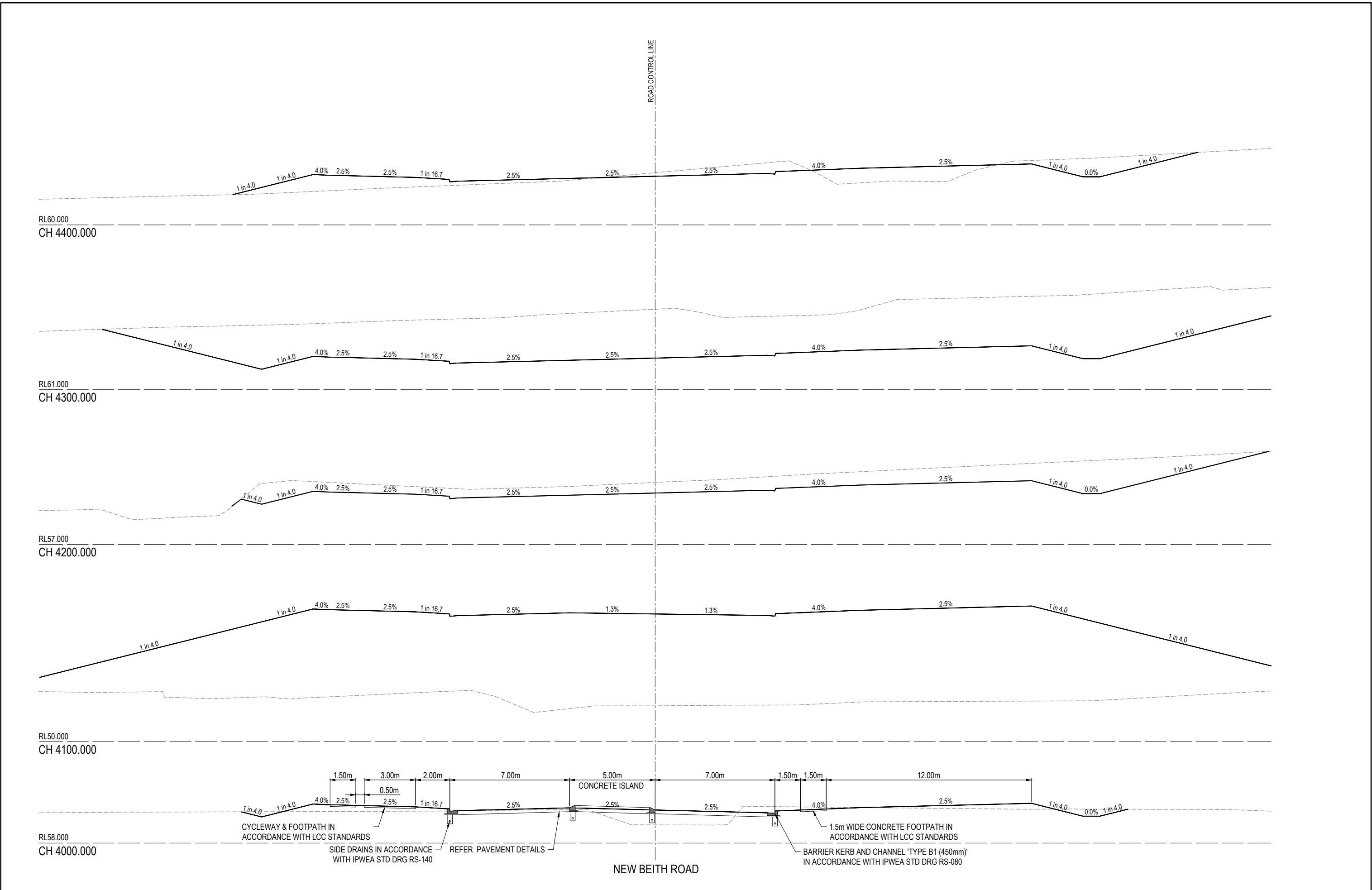


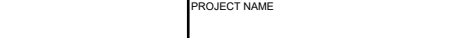
REV	DATE	DESIGN	DRAWN	REVISION DETAILS					DRAWN	STATUS		SCALE		CLIENT	PROJECT NAME		DRAWING TITLE									
A	12.09.24	PM	DH	ORIGINAL ISSUE					DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		1:100 1:200 1 0 1 2 3 4 5 A1 A3	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	NEW BEITH ROAD CROSS SECTIONS SHEET 5 OF 12											

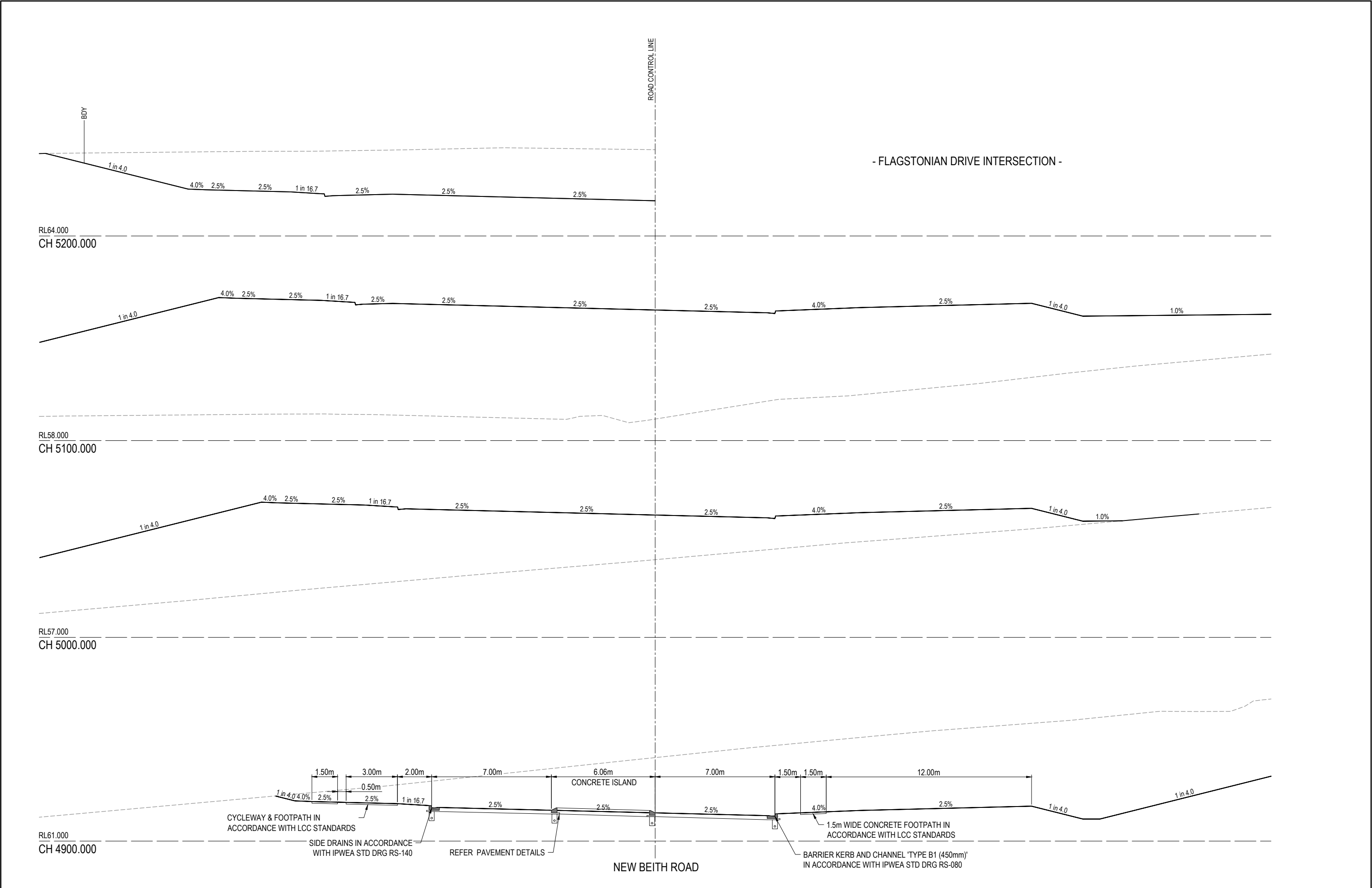


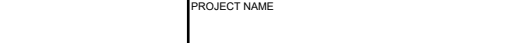
REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		1:100 1:200	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	NEW BEITH ROAD CROSS SECTIONS SHEET 6 OF 12		
						DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24							
						PM	 FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD			ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P153	REVISION A

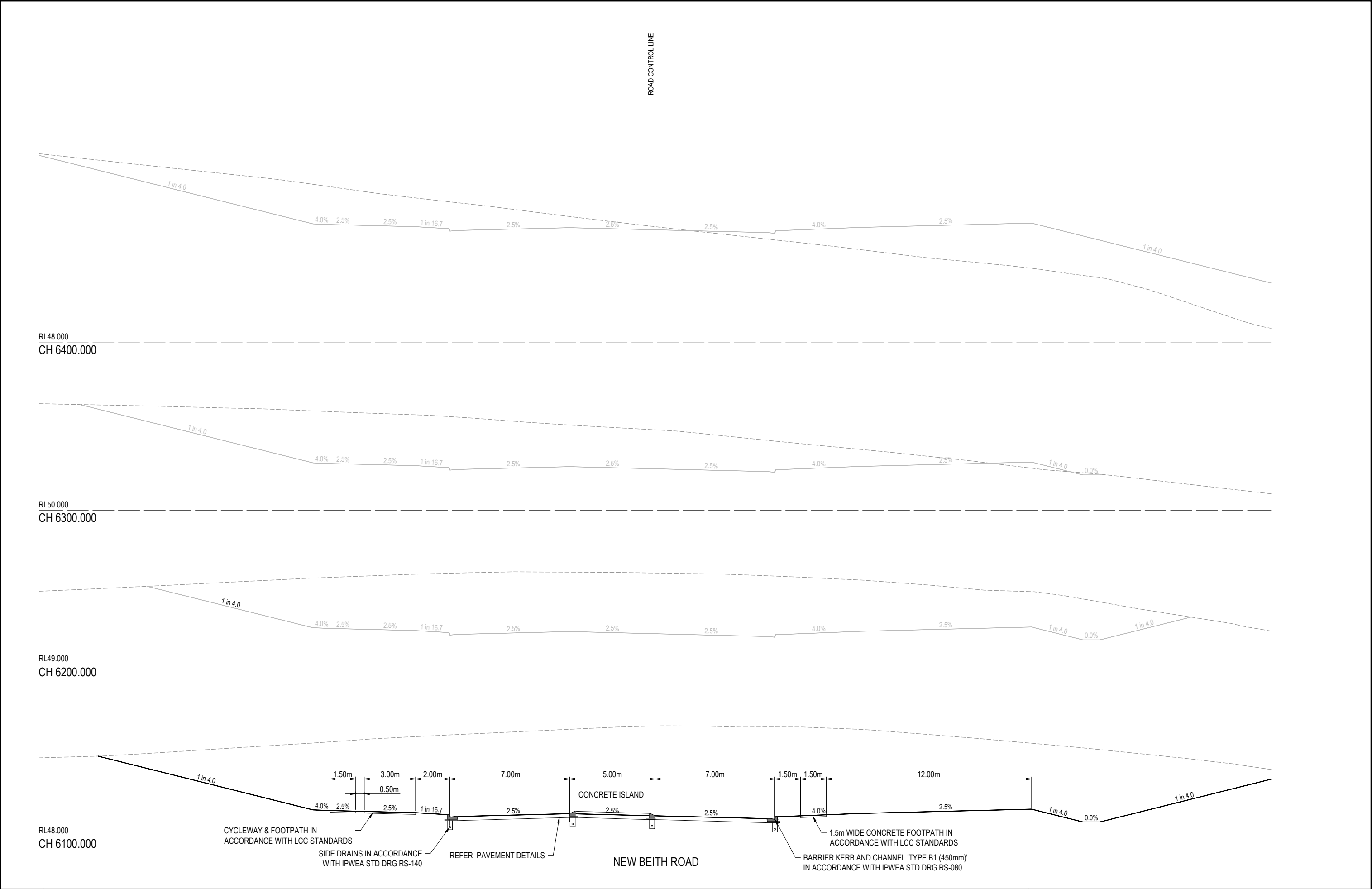
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD

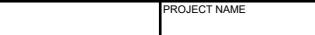


REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS		SCALE		CLIENT	PROJECT NAME		DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		1:100 1:200		PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE		NEW BEITH ROAD CROSS SECTIONS SHEET 7 OF 12		
							DESIGN	APPROVED DANIEL COLLINS RPEQ 18631  DATE 12.09.24				ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE		PROJECT No. 22-0145	DRAWING No. P154	REVISION A
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD																	



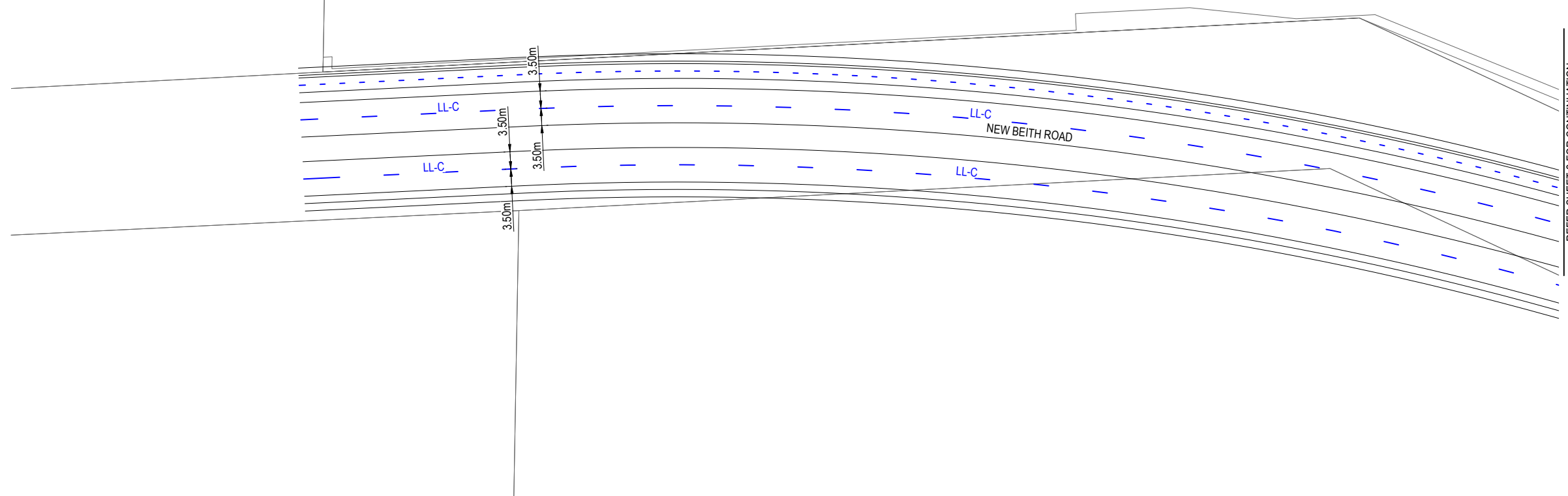
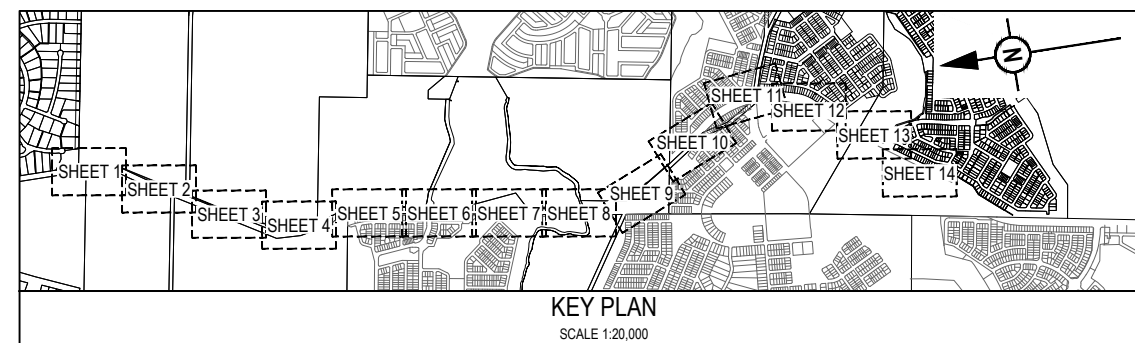
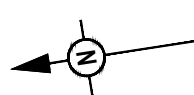
REV	DATE	DESIGN	DRAWN	REVISION DETAILS				DRAWN	STATUS			SCALE		CLIENT	PROJECT NAME		DRAWING TITLE						
A	12.09.24	PM	DH	ORIGINAL ISSUE				DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			1:100			A1	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	NEW BEITH ROAD CROSS SECTIONS SHEET 9 OF 12					
								DESIGN	APPROVED	DATE		1:200	A3										
								PM	DANIEL COLLINS	RPEQ 18631		12.09.24	ASSOCIATED CONSULTANT		VERIS						HOMESTEAD DRIVE FLAGSTONE		
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD														(07) 3666 4700				PROJECT No.	22-0145	DRAWING No.	P156	REVISION	A



REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS		SCALE		CLIENT	PROJECT NAME		DRAWING TITLE			
A	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		1:100 1:200		PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE		NEW BEITH ROAD CROSS SECTIONS SHEET 12 OF 12			
							DESIGN	APPROVED DANIEL COLLINS		RPEQ 18631	DATE 12.09.24	ASSOCIATED CONSULTANT VERIS (07) 3666 4700		HOMESTEAD DRIVE FLAGSTONE		PROJECT No. 22-0145	DRAWING No. P159	REVISION A
							PM											
							FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD											

LEGEND

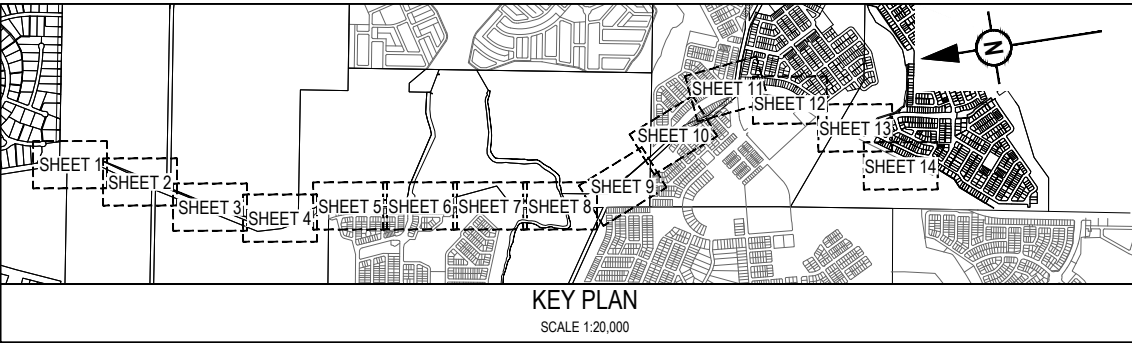
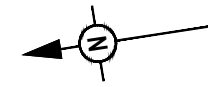
- | | |
|--|---|
| | PROPOSED AREA OF WORKS |
| | PROPOSED STREET NAME SIGN |
| | PROPOSED ROAD SIGN |
| | PROPOSED END OF ROAD SIGN |
| | EXISTING STREET NAME SIGN |
| | EXISTING ROAD SIGN |
| | EXISTING END OF ROAD SIGN |
| | PROPOSED GIVE WAY LINE |
| | PROPOSED STOP LINE |
| | PROPOSED DIVIDING LINE |
| | PROPOSED LANE LINE - BROKEN |
| | PROPOSED LANE LINE - CONTINUOUS |
| | PROPOSED EDGE LINE |
| | PROPOSED CONTINUITY LINE |
| | PROPOSED TURN LINE |
| | PROPOSED CROSS WALK LINE |
| | PROPOSED BICYCLE LANE |
| | PROPOSED GREEN HIGH FRICTION
BICYCLE TREATMENT |
| | EXISTING LINEMARKING
(LINETYPES AS PER PROPOSED) |



NOTES:

1. ALL SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND LCC STANDARDS.
2. TRAFFIC SIGN POSTS SHALL BE IN ACCORDANCE WITH LCC STANDARD DRAWINGS.
3. STREET NAME SIGN SHALL BE IN ACCORDANCE WITH LCC STANDARD DRAWINGS.
4. CONTRACTOR TO ENSURE SIGN LOCATIONS ARE CLEAR OF FUTURE DRIVEWAY LOCATIONS - LOCATE ON PB OR MID BLOCK.
5. RRPMS TO BE INSTALLED / REMOVED AND REINSTATED TO SUIT NEW CHEVRON, MEDIAN AND EDGE LINE IN ACCORDANCE WITH M.U.T.C.D. REQUIREMENTS

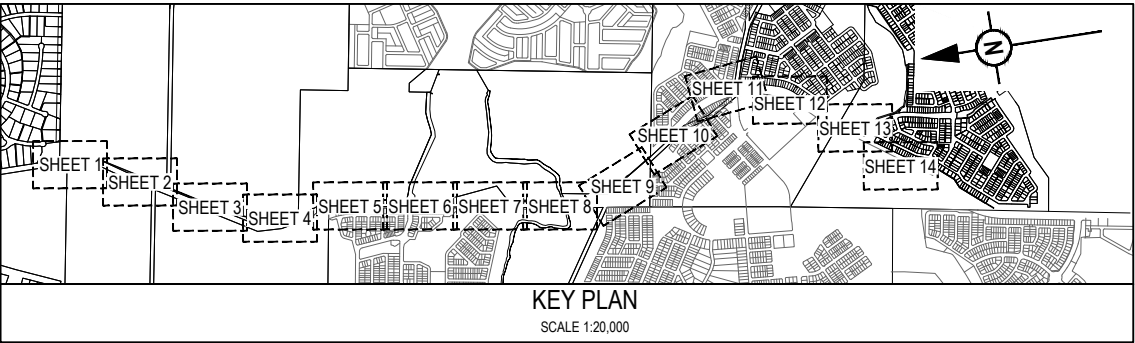
REV	DATE	DESIGN	DRAWN	REVISION DETAILS				DRAWN	STATUS			SCALE 1:50010501020A1 1:1000	CLIENT PEET FLAGSTONE CITY PTY. LTD. ASSOCIATED CONSULTANT VERIS (07) 3666 4700	PROJECT NAME NEW BEITH ROAD - FLAGSTONE HOMESTEAD DRIVE FLAGSTONE	DRAWING TITLE ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 1 OF 14		
A	12.09.24	PM	DH	ORIGINAL ISSUE				DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION						PROJECT No. 22-0145		
								DESIGN	APPROVED DANIEL COLLINS	RPEQ 18631					DATE 12.09.24	DRAWING No. P170	REVISION A
								FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY. LTD.									



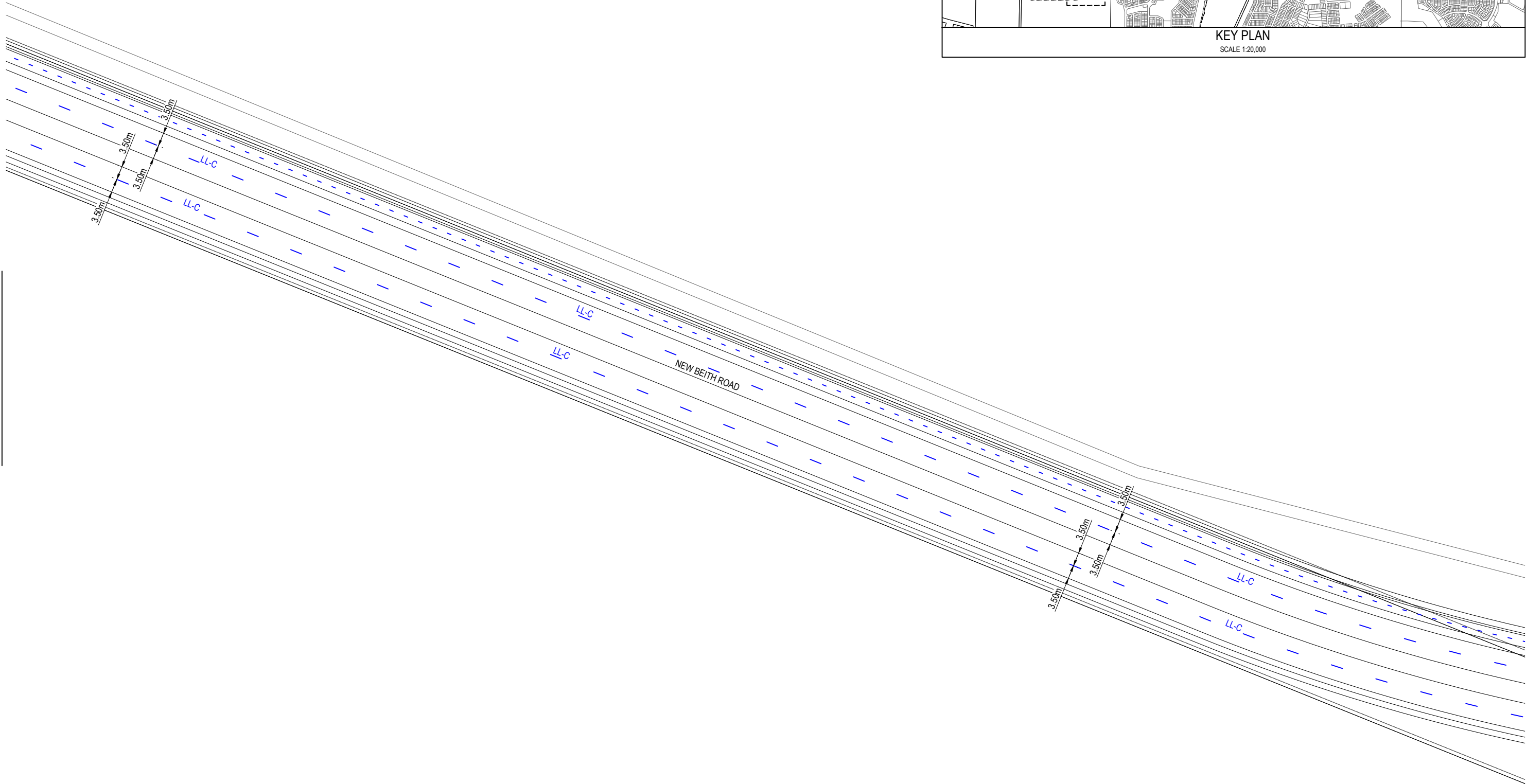
REFER SHEET 1 FOR CONTINUATION

REFER SHEET 3 FOR CONTINUATION

REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS			SCALE 1:500 10 5 0 10 20 A1 1:1000  A3	CLIENT	PROJECT NAME	DRAWING TITLE					
							FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		PEET FLAGSTONE CITY PTY. LTD. NEW BEITH ROAD - FLAGSTONE					HOMESTEAD DRIVE FLAGSTONE	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 2 OF 14				
															ASSOCIATED CONSULTANT	VERIS (07) 3666 4700	PROJECT No.	DRAWING No.	REVISION
																	22-0145	P171	A
			</																



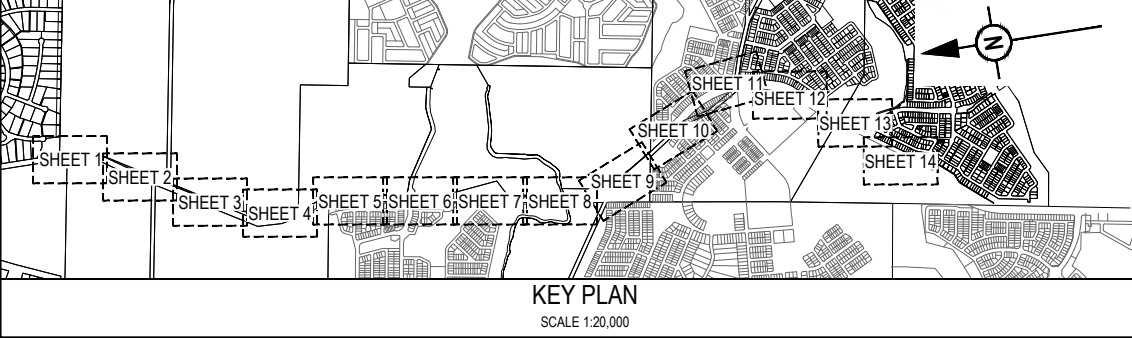
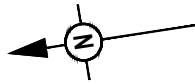
KEY PLAN
SCALE 1:20,000



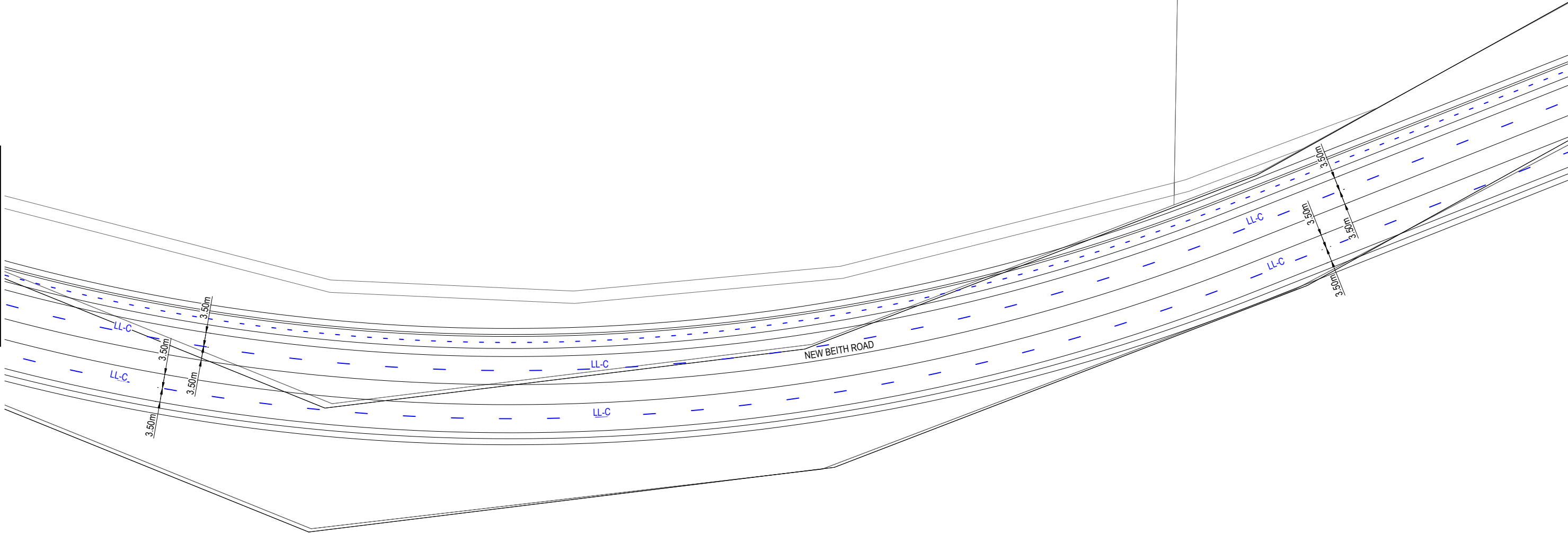
REFER SHEET 2 FOR CONTINUATION

REFER SHEET 4 FOR CONTINUATION

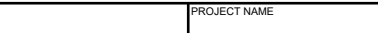
REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE 1:500 1:1000 	CLIENT PEET FLAGSTONE CITY PTY. LTD. ASSOCIATED CONSULTANT VERIS (07) 3666 4700	PROJECT NAME NEW BEITH ROAD - FLAGSTONE HOMESTEAD DRIVE FLAGSTONE	DRAWING TITLE ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 3 OF 14			
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION					PROJECT No. 22-0145	DRAWING No. P172	REVISION A	
								</							

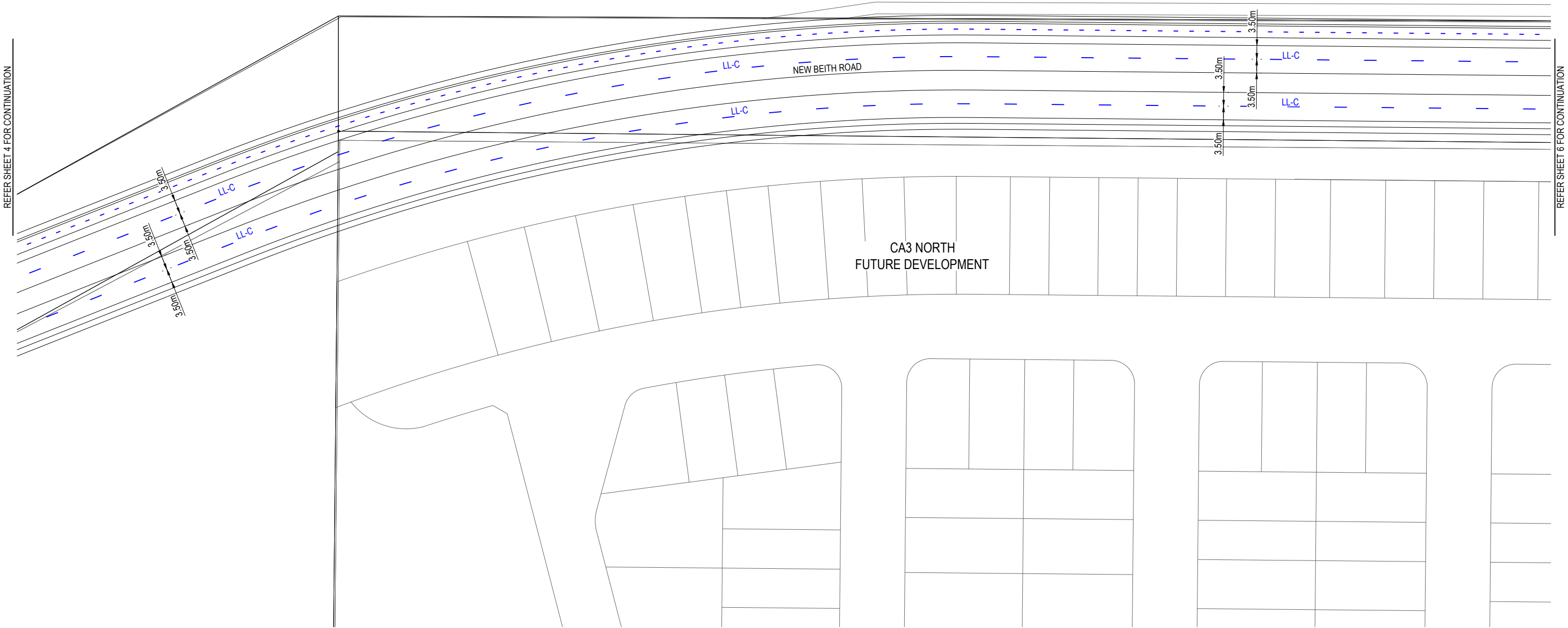
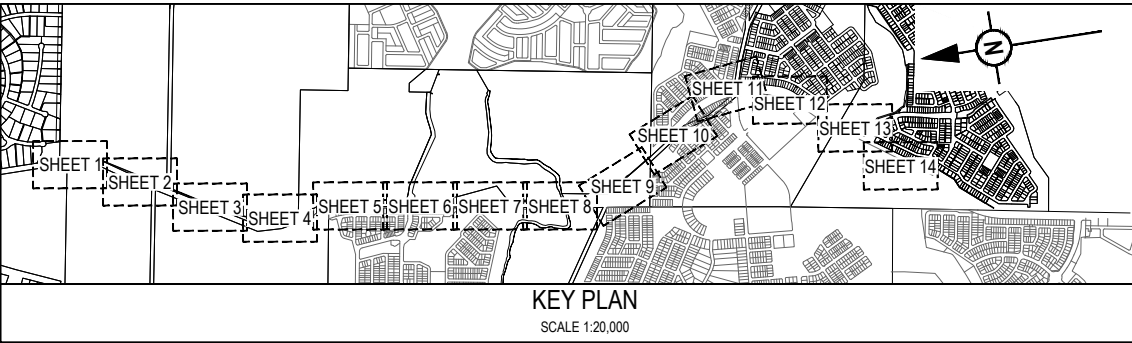


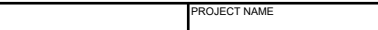
REFER SHEET 3 FOR CONTINUATION

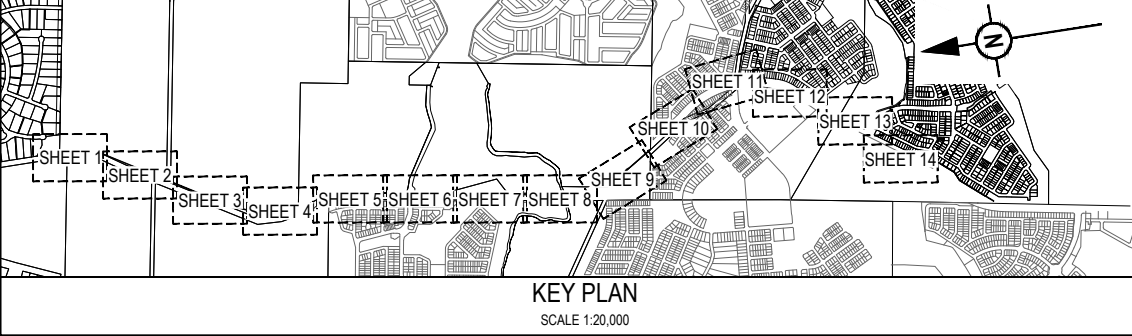


REFER SHEET 5 FOR CONTINUATION

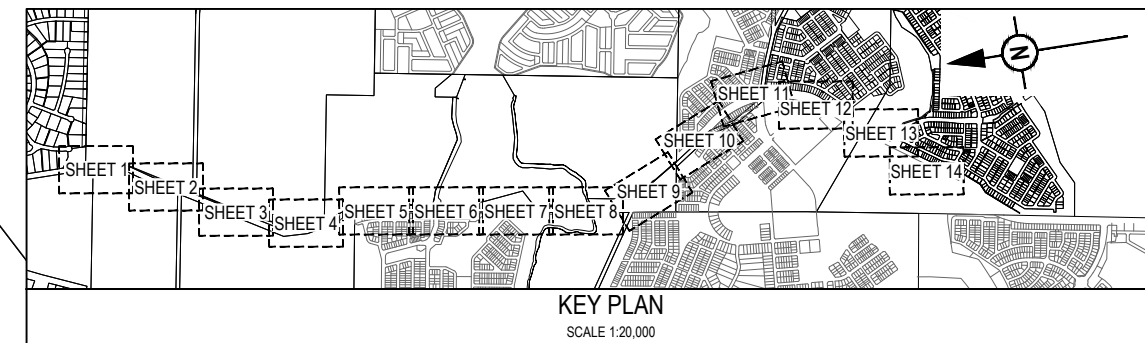
REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE		CLIENT	PROJECT NAME	DRAWING TITLE					
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		1:500 1:1000		A1 A3	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 4 OF 14				
						PM	APPROVED DANIEL COLLINS  RPEQ 18631 DATE 12.09.24				ASSOCIATED CONSULTANT			VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No.	DRAWING No.	REVISION
							FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD									22-0145	P173	A



REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE 1:500 1:1000 	CLIENT PEET FLAGSTONE CITY PTY. LTD. ASSOCIATED CONSULTANT VERIS (07) 3666 4700	PROJECT NAME NEW BEITH ROAD - FLAGSTONE HOMESTEAD DRIVE FLAGSTONE	DRAWING TITLE ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 5 OF 14			
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION					PROJECT No. 22-0145	DRAWING No. P174	REVISION A	



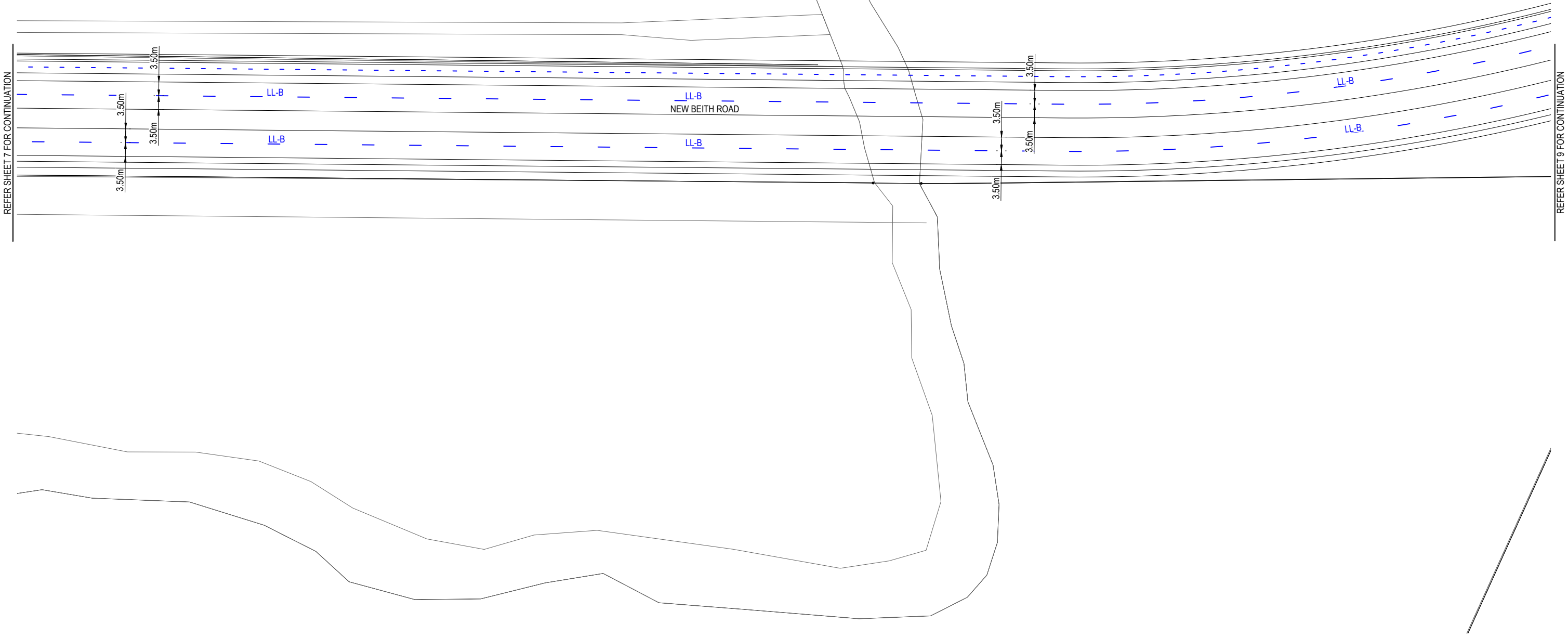
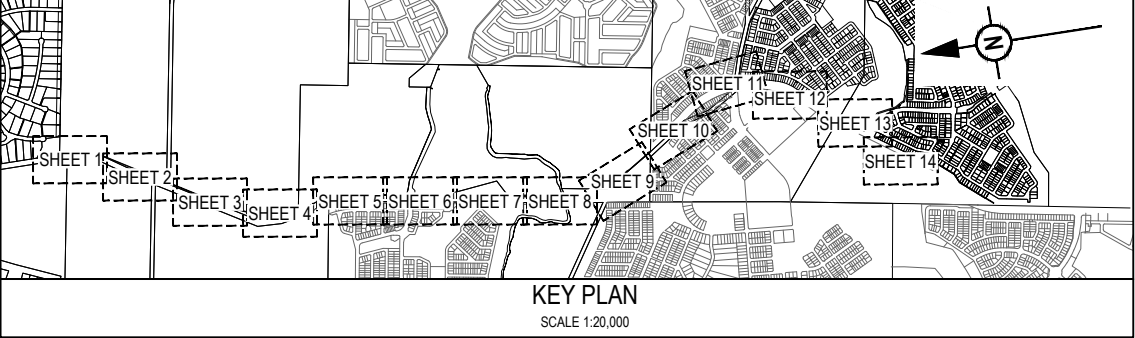
REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		1:500 10 5 0 10 20 A1 1:1000	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 6 OF 14		
						PM	APPROVED DANIEL COLLINS RPEQ 18631 12.09.24  FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD			ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P175	REVISION A



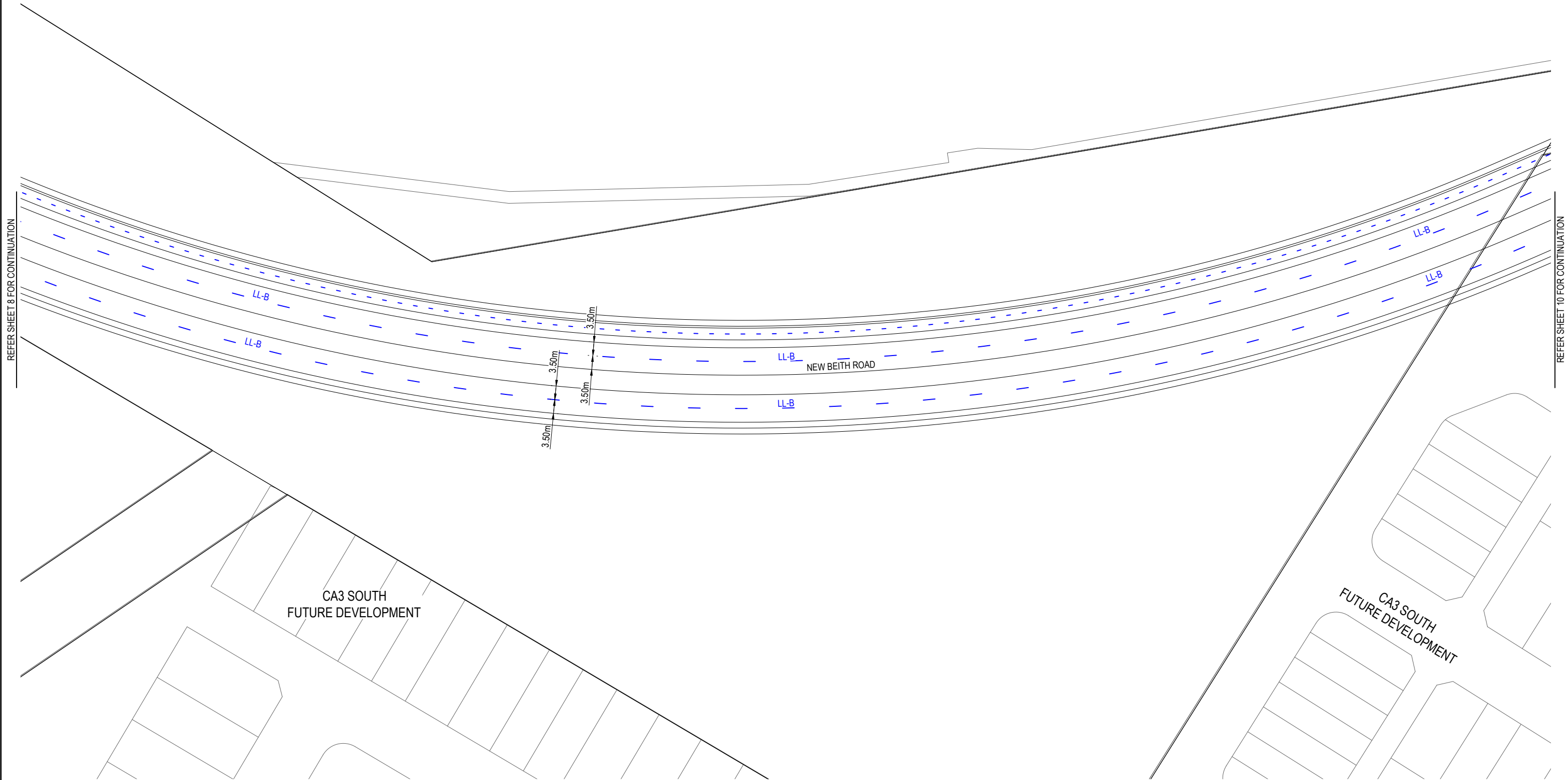
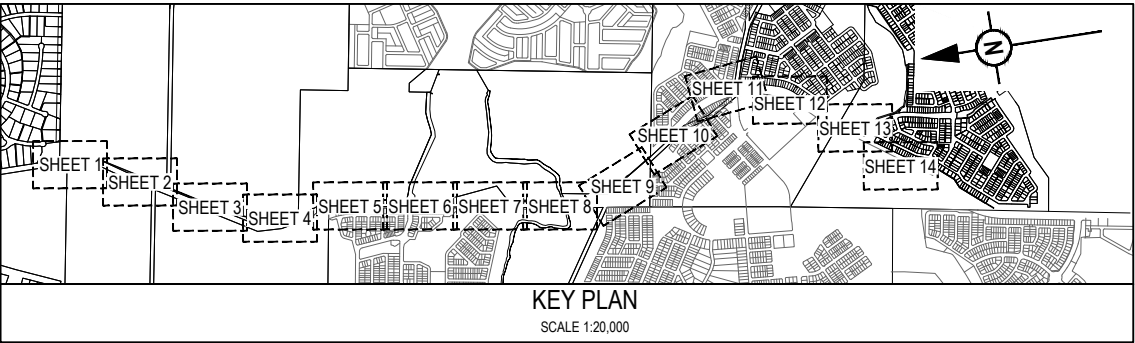
DEER CLEFT & FOR CONTINUATION

NEW BEITH ROAD

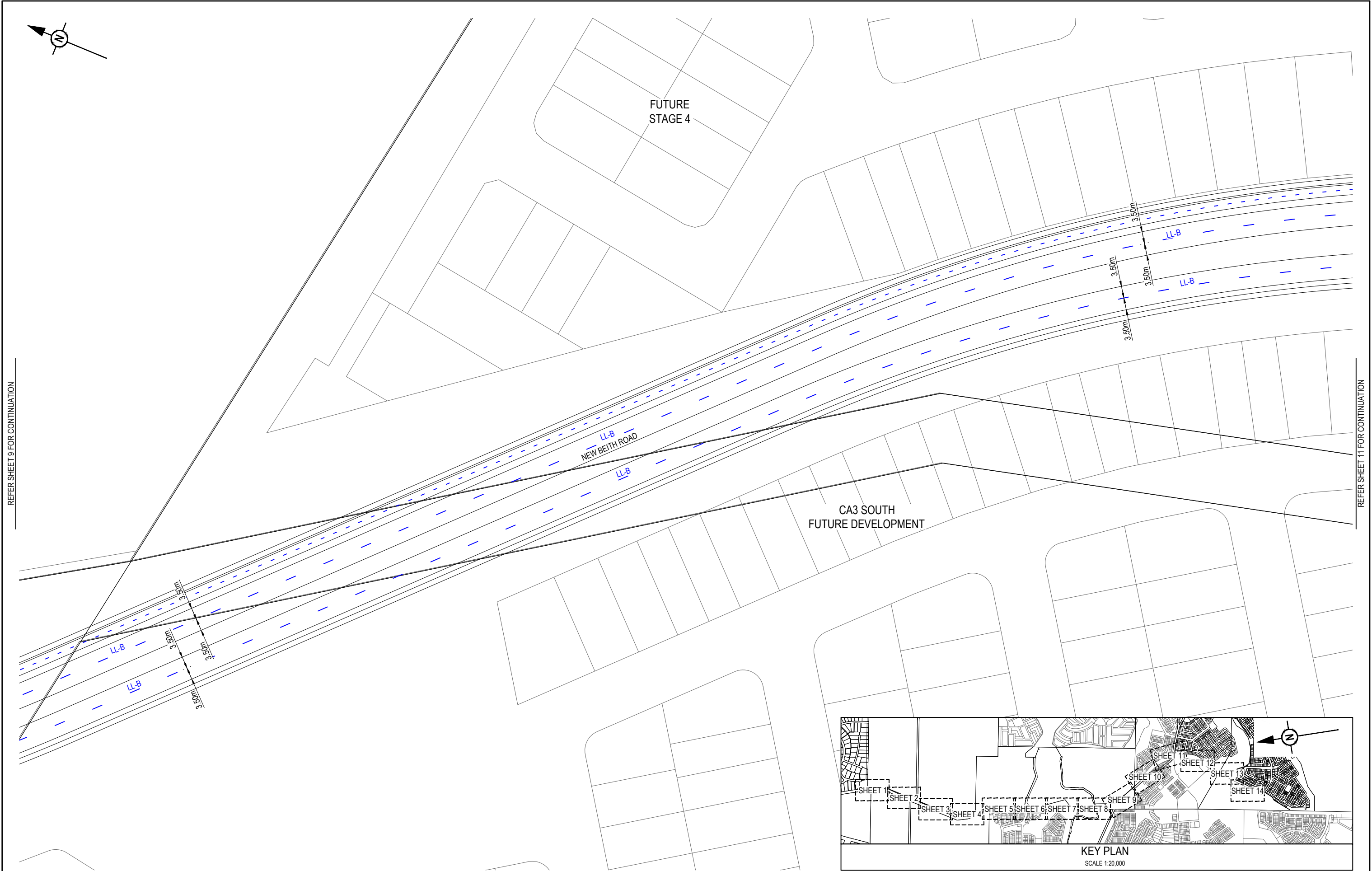
REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE 1:500 10 5 0 10 20 A1 1:1000 	CLIENT PEET FLAGSTONE CITY PTY. LTD.	PROJECT NAME NEW BEITH ROAD - FLAGSTONE	DRAWING TITLE							
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION						ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 7 OF 14					
															PROJECT No.	22-0145	DRAWING No.	P176	REVISION	A
						PM	APPROVED DANIEL COLLINS RPEQ 18631 12.09.24 													
						FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD.														



REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS			SCALE 1:500 10 5 0 10 20 A1 1:1000  A3	CLIENT PEET FLAGSTONE CITY PTY. LTD. ASSOCIATED CONSULTANT VERIS (07) 3666 4700	PROJECT NAME NEW BEITH ROAD - FLAGSTONE HOMESTEAD DRIVE FLAGSTONE	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION						ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 8 OF 14		
										PROJECT No.				DRAWING No.	REVISION	
							PM	APPROVED DANIEL COLLINS RPEQ 18631 12.09.24 		22-0145				P177	A	
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD																

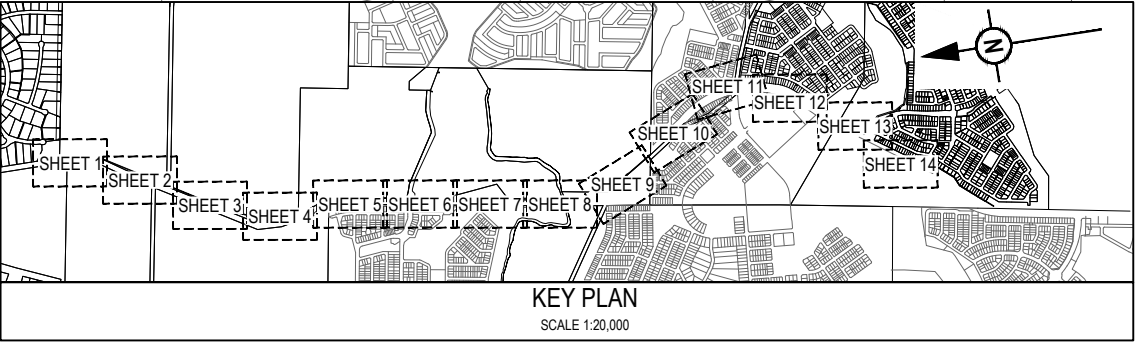


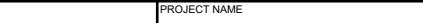
REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE 1:500 1:1000  A1 A3	CLIENT PEET FLAGSTONE CITY PTY. LTD. ASSOCIATED CONSULTANT VERIS (07) 3666 4700	PROJECT NAME NEW BEITH ROAD - FLAGSTONE HOMESTEAD DRIVE FLAGSTONE	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION						ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 9 OF 14		
						PM	DESIGN APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24  FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD	PROJECT No. 22-0145					DRAWING No. P178	REVISION A	

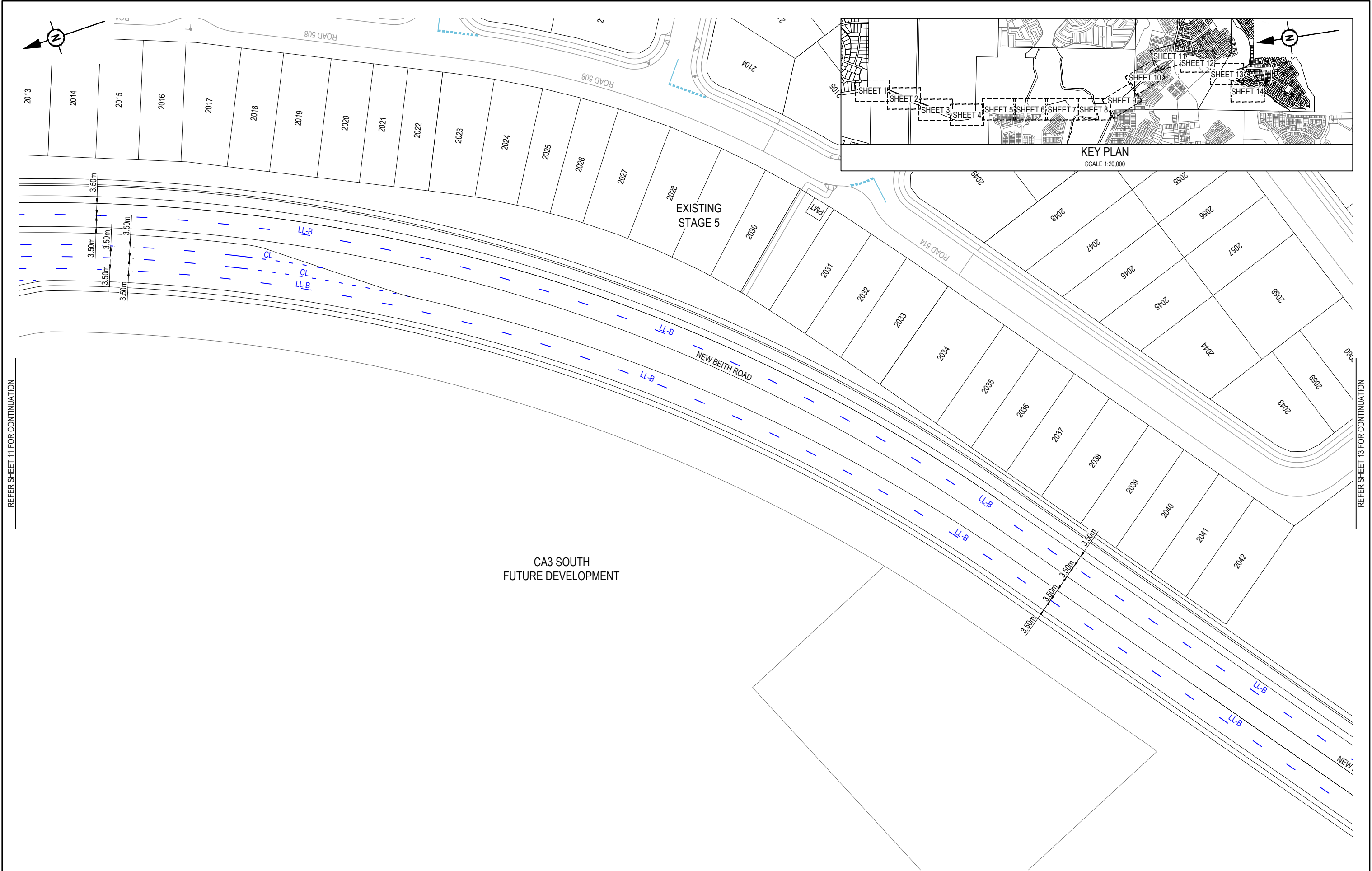


REFER SHEET 9 FOR CONTINUATION

REFER SHEET 11 FOR CONTINUATION

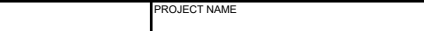


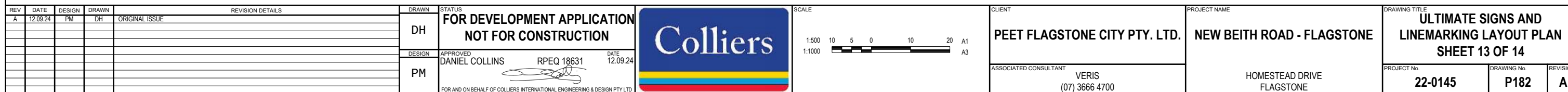
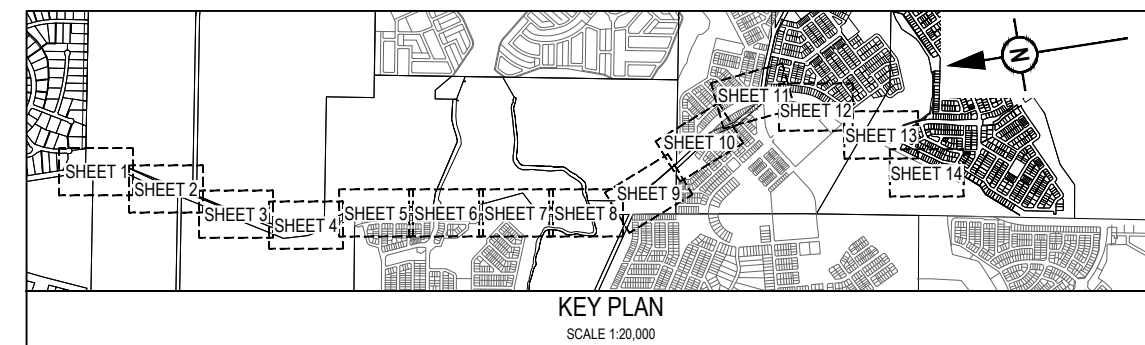
REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE 1:500 1:1000 	CLIENT PEET FLAGSTONE CITY PTY. LTD. ASSOCIATED CONSULTANT VERIS (07) 3666 4700	PROJECT NAME NEW BEITH ROAD - FLAGSTONE HOMESTEAD DRIVE FLAGSTONE	DRAWING TITLE ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 10 OF 14		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION					PROJECT No.	DRAWING No.	REVISION
						PM	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24  FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD					22-0145	P179	A



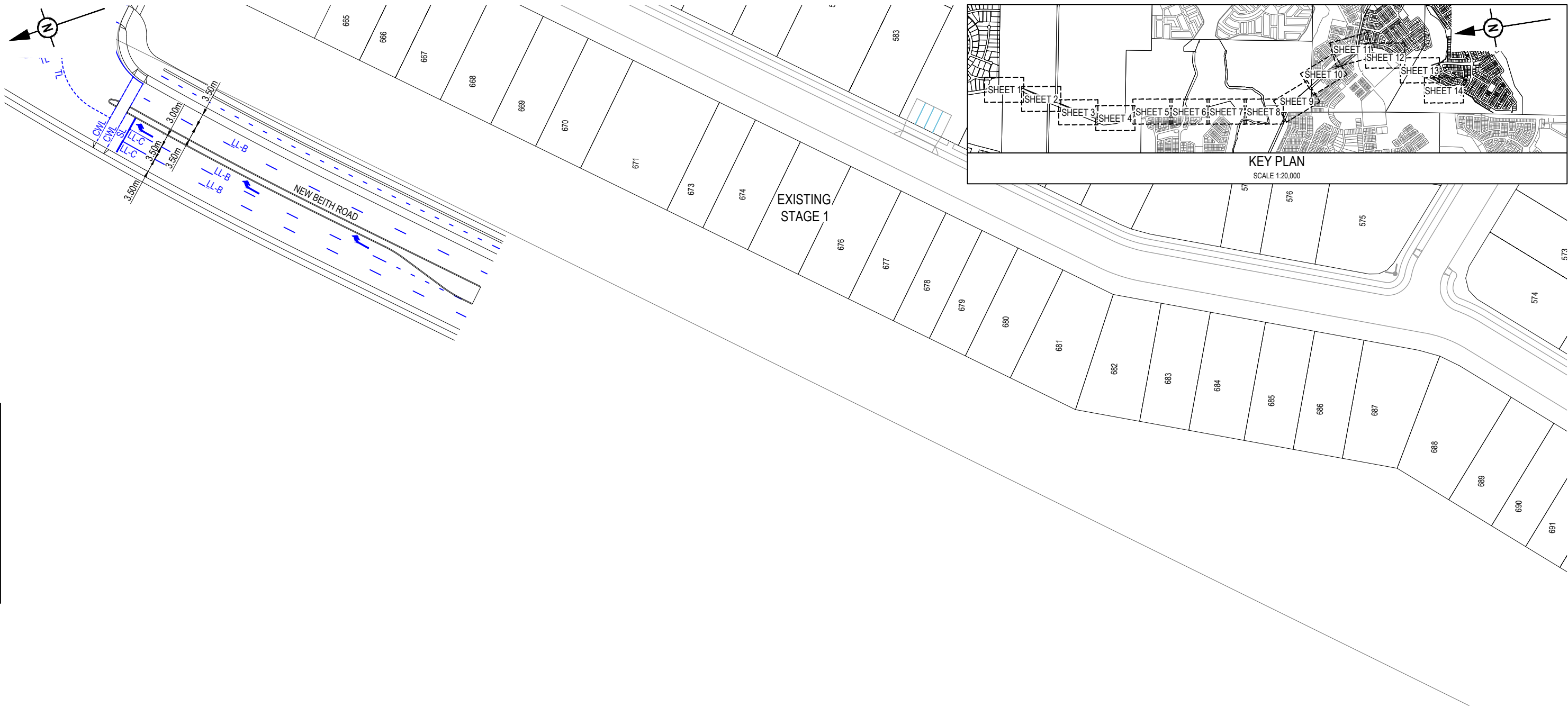
REFER SHEET 11 FOR CONTINUATION

REFER SHEET 13 FOR CONTINUATION

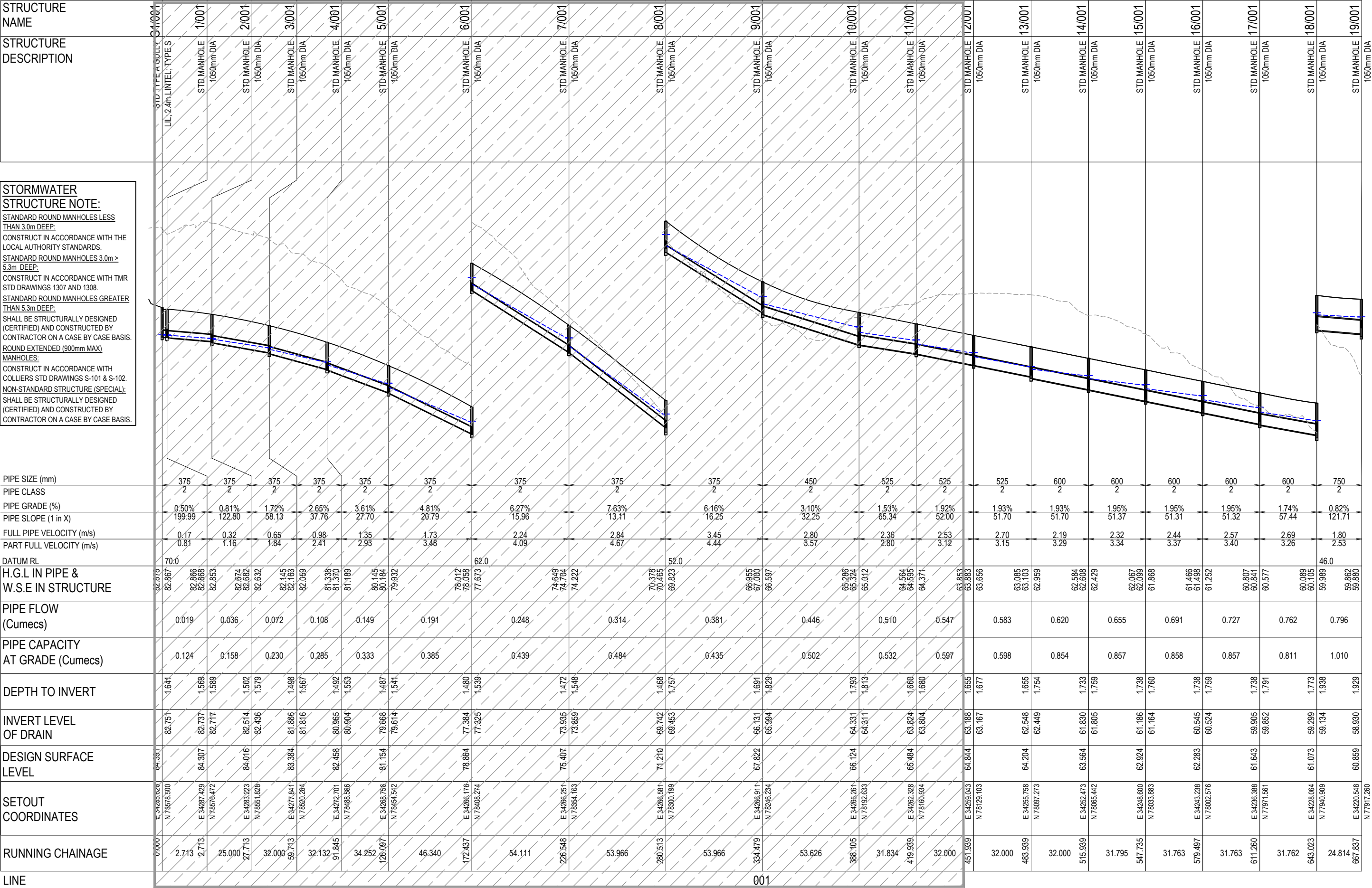
REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS		SCALE		CLIENT	PROJECT NAME		DRAWING TITLE			
A	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		1:500 1:1000		A1 A3	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE		ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 12 OF 14		
							PM	APPROVED DANIEL COLLINS  RPEQ 18631 DATE 12.09.24 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD			ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE		PROJECT No. 22-0145	DRAWING No. P181	REVISION A		

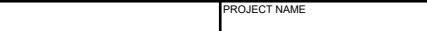


REFER SHEET 13 FOR CONTINUATION



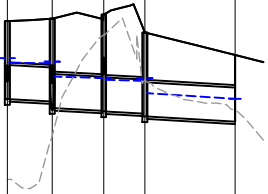
REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE 1:500 1:1000  A1 A3	CLIENT PEET FLAGSTONE CITY PTY. LTD. ASSOCIATED CONSULTANT VERIS (07) 3666 4700	PROJECT NAME NEW BEITH ROAD - FLAGSTONE HOMESTEAD DRIVE FLAGSTONE	DRAWING TITLE ULTIMATE SIGNS AND LINEMARKING LAYOUT PLAN SHEET 14 OF 14		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION					PROJECT No. 22-0145	DRAWING No. P183	REVISION A



REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS			SCALE		CLIENT	PROJECT NAME		DRAWING TITLE				
A	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			1:1000 1:2000	 HORIZONTAL	A1 A3	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 1 OF 33				
							DESIGN	APPROVED	DATE		1:100 1:200	 VERTICAL	A1 A3							
							PM	DANIEL COLLINS	RPEQ 18631	12.09.24				ASSOCIATED CONSULTANT	VERIS	HOMESTEAD DRIVE FLAGSTONE	PROJECT No.	DRAWING No.	REVISION	
														(07) 3666 4700			22-0145	P190	A	
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD																				

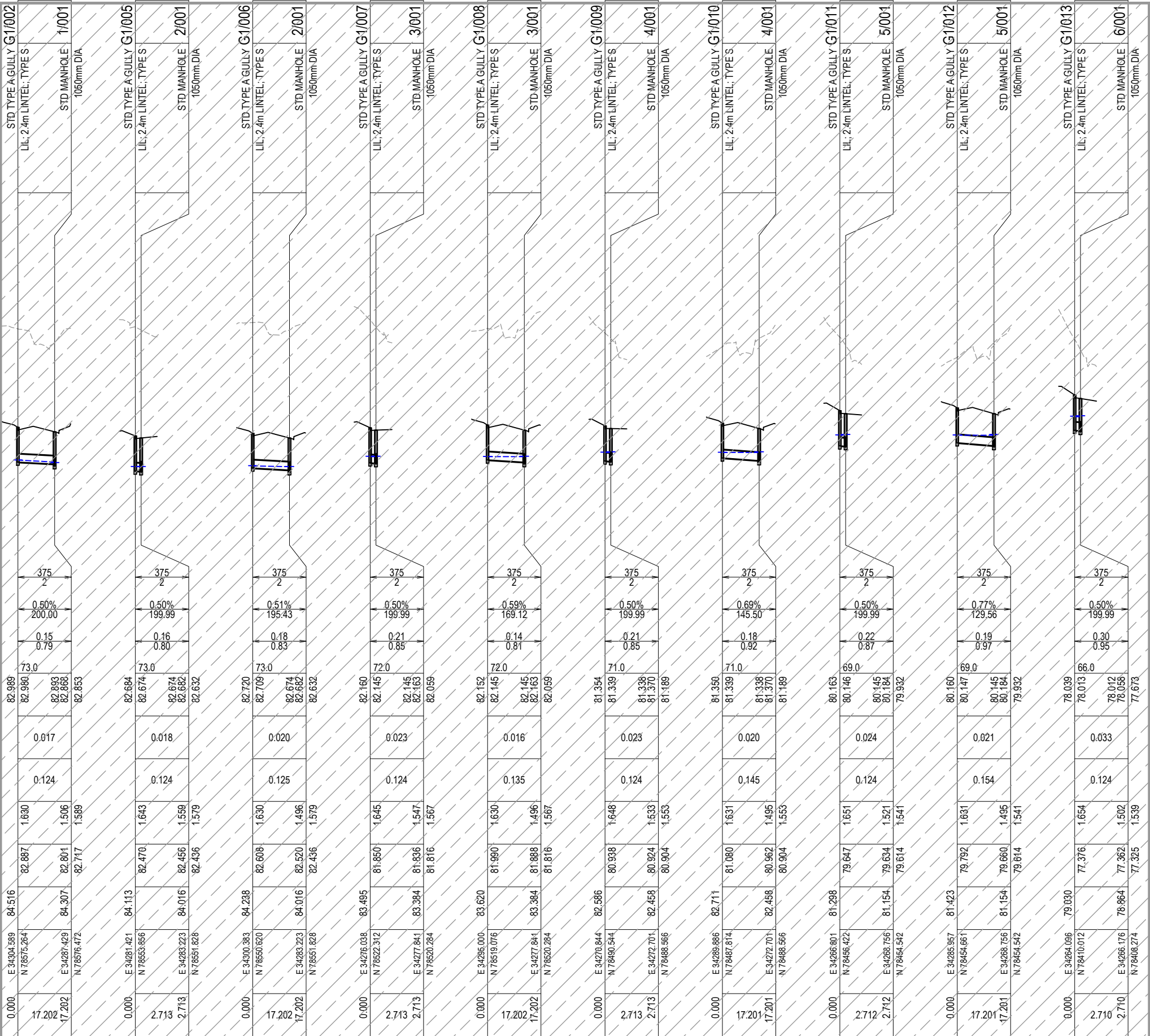
STRUCTURE NAME	19/001
STRUCTURE DESCRIPTION	STD MANHOLE 1050mm DIA
	20/001
	STD MANHOLE 1050mm DIA
	G2/001
	STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL TYPE S
	21/001
	STD MANHOLE 1050mm DIA
	OUTLET 1/001

STORMWATER STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX) MANHOLES:
CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

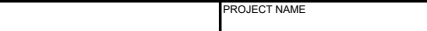


PIPE SIZE (mm)	900	(2x)900	(2x)900	(2x)900
PIPE CLASS	2	2	2	2
PIPE GRADE (%)	0.50%	0.50%	0.50%	0.58%
PIPE SLOPE (1 in X)	200.00	200.00	200.00	173.71
FULL PIPE VELOCITY (m/s)	1.27	1.68	1.71	1.70
PART FULL VELOCITY (m/s)	2.13	2.25	2.26	2.39
DATUM RL	46.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	59.862 59.860	59.763 59.739 59.788	59.390 59.355 59.359	59.307 59.278 59.352
PIPE FLOW (Cumecs)		0.807	2.140	2.173
PIPE CAPACITY AT GRADE (Cumecs)		1.281	2.561	2.561
DEPTH TO INVERT	1.929	2.065	2.187	2.366
INVERT LEVEL OF DRAIN	58.930	58.795	58.735	58.556
DESIGN SURFACE LEVEL	60.859	60.922	61.031	60.557
SETOUT COORDINATES	E 34220.548 N 77917.260	E 34220.123 N 77905.399	E 34232.946 N 77900.805	E 34243.193 N 77897.141
RUNNING CHAINAGE	667.837	11.878	13.617	10.883
				704.215
				23.876
				728.093

LINE 001



002 005 006 007 008 009 010 011 012 013

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE	DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 2 OF 33							
						DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24 			ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P191	REVISION A
						PM	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD							

[illegible]

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE		CLIENT	PROJECT NAME	DRAWING TITLE				
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			DESIGN	APPROVED	DATE	1:1000 1:2000	1:100 1:200	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 3 OF 33	
						PM	DANIEL COLLINS	RPEQ 18631	12.09.24		10 0 10 20 30 40 50 A1 HORIZONTAL A3	2 1 0 2 4 A1 VERTICAL A3	VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P192	REVISION A	
						FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD												

STRUCTURE NAME

STRUCTURE DESCRIPTION

STORMWATER STRUCTURE NOTE:

STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX) MANHOLES:
CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)

PIPE CLASS

PIPE GRADE (%)

PIPE SLOPE (1 in X)

FULL PIPE VELOCITY (m/s)

PART FULL VELOCITY (m/s)

DATUM RL

H.G.L IN PIPE & W.S.E IN STRUCTURE

PIPE FLOW (Cumecs)

PIPE CAPACITY AT GRADE (Cumecs)

DEPTH TO INVERT

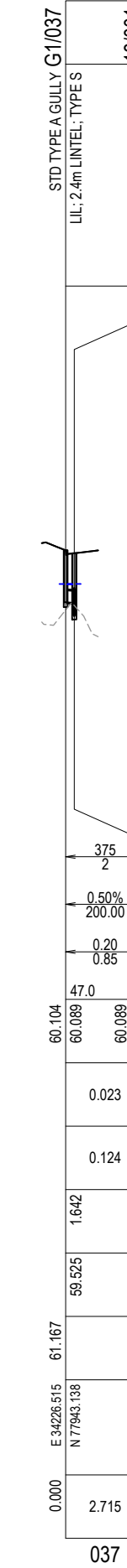
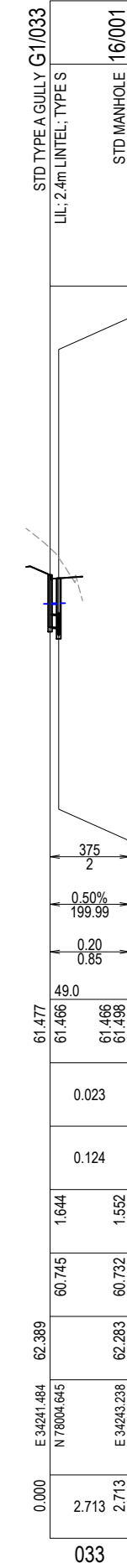
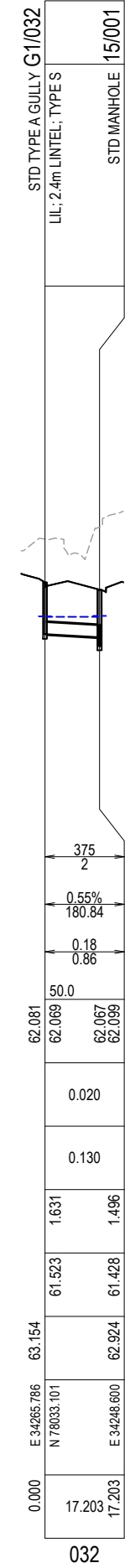
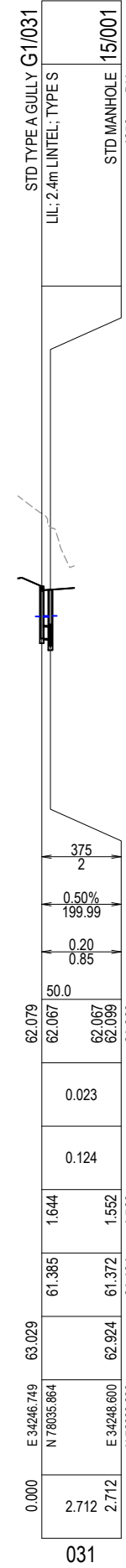
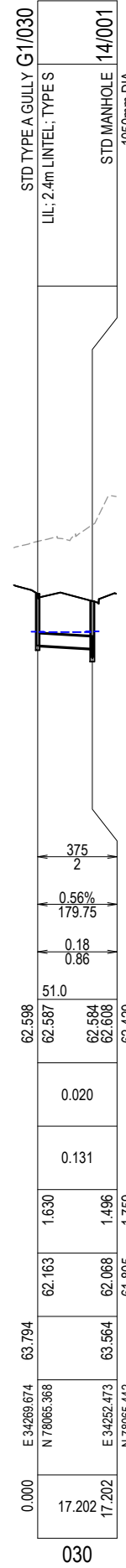
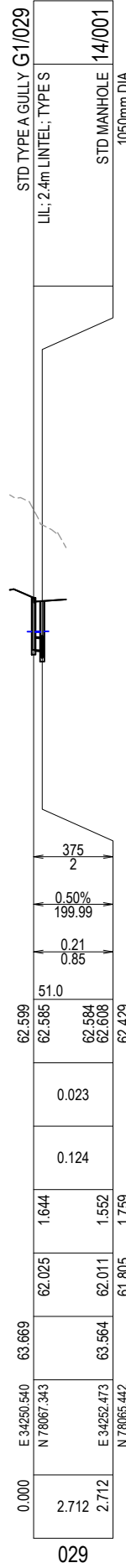
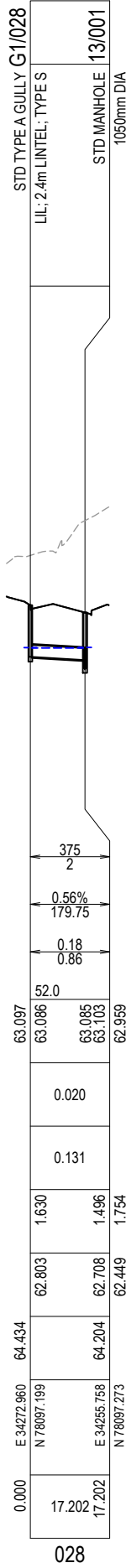
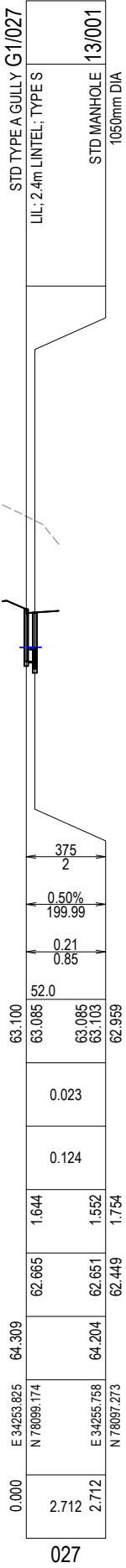
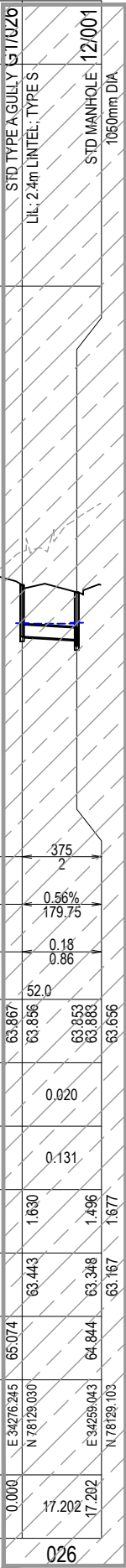
INVERT LEVEL OF DRAIN

DESIGN SURFACE LEVEL

SETOUT COORDINATES

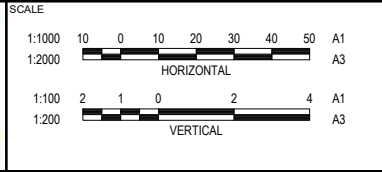
RUNNING CHAINAGE

LINE



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	12.09.24	PM	DH	ORIGINAL ISSUE

DRAWN	STATUS
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION
DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24
PM	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD



CLIENT
PEET FLAGSTONE CITY PTY. LTD.
ASSOCIATED CONSULTANT
VERIS (07) 3666 4700

PROJECT NAME
NEW BEITH ROAD - FLAGSTONE
HOMESTEAD DRIVE FLAGSTONE

DRAWING TITLE
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 4 OF 33
PROJECT No. 22-0145
DRAWING No. P193
REVISION A

STRUCTURE NAME	13/041	14/041	15/041	16/041	17/041	18/041	19/041	20/041	21/041	22/041	23/041	24/041	25/041	26/041	27/041	28/041	29/041	30/041	31/041	32/041	33/041
STRUCTURE DESCRIPTION	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA
STORMWATER STRUCTURE NOTE: STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP: CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS. STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP: CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308. STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP: SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS. ROUND EXTENDED (900mm MAX) MANHOLES: CONSTRUCT IN ACCORDANCE WITH COLLIERS STD DRAWINGS S-101 & S-102. NON-STANDARD STRUCTURE (SPECIAL): SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.																					
PIPE SIZE (mm)	600 2																				
PIPE CLASS																					
PIPE GRADE (%)	2.88% 34.72																				
PIPE SLOPE (1 in X)	34.72																				
FULL PIPE VELOCITY (m/s)	2.14 3.82																				
PART FULL VELOCITY (m/s)	3.82																				
DATUM RL	57.0																				
H.G.L IN PIPE & W.S.E IN STRUCTURE	76.440 76.506 76.076	75.182 75.251 74.737	73.432 73.460 73.255	72.372 72.394 72.210	71.671 71.694 71.499	70.996 71.020 70.812	70.264 70.289 70.069	69.501 69.517 69.372	68.877 68.893 68.740	68.252 68.269 68.108	67.626 67.644 67.475	67.081 67.100 66.922	66.465 66.484 66.298	65.811 65.831 65.637	65.119 65.140 64.936	64.362 64.376 64.237	63.734 63.749 63.604	63.106 63.121 62.970	62.477 62.492 62.336	61.871 61.893 61.697	61.292 61.327 61.137
PIPE FLOW (Cumecs)	0.604																				
PIPE CAPACITY AT GRADE (Cumecs)	1.042																				
DEPTH TO INVERT	1.664 1.754	1.720 1.791	1.750 1.784	1.749 1.782	1.754 1.775	1.752 1.772	1.734 1.755	1.734 1.834	1.812 1.834	1.812 1.834	1.812 1.834	1.812 1.834	1.812 1.834	1.812 1.834	1.812 1.834	1.812 1.913	1.892 1.913	1.892 1.913	1.892 1.913	1.892 1.917	1.896 1.932
INVERT LEVEL OF DRAIN	75.662 75.572	74.287 74.217	72.754 72.721	71.701 71.668	70.831 70.810	70.149 70.129	69.527 69.506	68.887 68.787	68.168 68.147	67.528 67.507	66.888 66.867	66.248 66.227	65.608 65.587	64.968 64.947	64.328 64.307	63.688 63.588	62.969 62.948	62.329 62.308	61.689 61.668	61.049 61.024	60.405 60.384
DESIGN SURFACE LEVEL	77.326	76.008	74.505	73.450	72.585	71.901	71.261	70.621	69.981	69.341	68.701	68.061	67.421	66.781	66.141	65.501	64.861	64.221	63.581	62.941	62.300
SETOUT COORDINATES	E 33853.011 N 77239.269	E 33861.516 N 77283.049	E 33882.926 N 77319.182	E 33899.238 N 77346.712	E 33915.550 N 77374.243	E 33931.862 N 77401.773	E 33948.174 N 77429.303	E 33964.486 N 77456.834	E 33980.798 N 77484.364	E 33997.110 N 77511.894	E 34013.422 N 77539.425	E 34029.734 N 77566.955	E 34046.046 N 77594.485	E 34062.358 N 77622.016	E 34078.670 N 77649.546	E 34094.982 N 77677.076	E 34111.294 N 77704.606	E 34127.606 N 77732.137	E 34143.918 N 77759.667	E 34160.230 N 77787.197	E 34175.975 N 77814.832
RUNNING CHAINAGE	473.219	44.598 517.817	42.000 559.817	32.000 591.817	32.000 623.817	32.000 655.817	32.000 687.817	32.000 719.817	32.000 751.817	32.000 783.817	32.000 815.817	32.000 847.817	32.000 879.817	32.000 911.817	32.000 943.817	32.000 975.817	32.000 1007.817	32.000 1039.817	32.000 1071.817	32.000 1103.817	31.806 1135.623

LINE

REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS				SCALE		CLIENT	PROJECT NAME	DRAWING TITLE				
A	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION				1:1000 1:2000		A1 A3	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 5 OF 33			
							DESIGN	APPROVED		DATE		1:100 1:200		A1 A3	ASSOCIATED CONSULTANT			PROJECT No.	DRAWING No.	REVISION
							PM	DANIEL COLLINS	RPEQ 18631	12.09.24					VERIS	HOMESTEAD DRIVE FLAGSTONE		22-0145	P194	A
							FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD							(07) 3666 4700						

**STORMWATER
STRUCTURE NOTE:**

STANDARD ROUND MANHOLES LESS
THAN 3.0m DEEP:

CONSTRUCT IN ACCORDANCE WITH THE
LOCAL AUTHORITY STANDARDS.

STANDARD ROUND MANHOLES 3.0m >
5.3m DEEP:

CONSTRUCT IN ACCORDANCE WITH TMR
STD DRAWINGS 1307 AND 1308.

STANDARD ROUND MANHOLES GREATER
THAN 5.3m DEEP:

SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.

ROUND EXTENDED (900mm MAX)
MANHOLES:

CONSTRUCT IN ACCORDANCE WITH
COLLIERS STD DRAWINGS S-101 & S-102.

NON-STANDARD STRUCTURES (SPECIAL):

SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.

STRUCTURE NAME	33/041
STRUCTURE DESCRIPTION	STD MANHOLE 1050mm DIA
	34/041
	STD MANHOLE 1050mm DIA
	35/041
	STD MANHOLE 1050mm DIA
	36/041
	STD MANHOLE 1050mm DIA
	20/001
	STD MANHOLE 1050mm DIA

STORMWATER

STRUCTURE NOTE:

STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:

CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.

STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:

CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.

STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:

SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

ROUND EXTENDED (900mm MAX) MANHOLES:

CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102.

NON-STANDARD STRUCTURE (SPECIAL):

SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)	750	900	900	1050
PIPE CLASS	2	2	2	2
PIPE GRADE (%)	1.95%	1.76%	0.81%	0.50%
PIPE SLOPE (1 in X)	51.32	56.87	124.14	200.00
FULL PIPE VELOCITY (m/s)	2.91	2.07	2.11	1.56
PART FULL VELOCITY (m/s)	3.93	3.86	2.85	2.41
DATUM RL	48.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	61.292 61.327 61.061	60.345 60.362 60.228	60.173 60.190 60.056	59.915 59.941 59.769
PIPE FLOW (Cumecs)	1.285	1.315	1.345	1.352
PIPE CAPACITY AT GRADE (Cumecs)	1.555	2.401	1.626	1.932
DEPTH TO INVERT	1.896 1.917	1.896 2.111	2.094 2.114	2.095 2.224
INVERT LEVEL OF DRAIN	60.405 60.383	59.764 59.549	58.991 58.971	58.765 58.636
DESIGN SURFACE LEVEL	62.300	61.660	61.084	60.860
SETOUT COORDINATES	E 34175.975 N 77814.832	E 34190.378 N 77943.140	E 34203.412 N 77872.103	E 34212.895 N 77895.860
RUNNING CHAINAGE	1135.623 31.761 1167.384	31.761 1199.145 1224.725	25.579 11.960 1236.685	

LINE

041

STD TYPE A GULLY G1/042	LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 1/041	1050mm DIA
	375
	2
	0.50%
	200.00
	0.16
	0.80
DATUM RL	76.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	89.006 88.997 88.938 88.940
PIPE FLOW (Cumecs)	0.018
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.630 1.877
INVERT LEVEL OF DRAIN	88.902 88.816
DESIGN SURFACE LEVEL	90.532 90.693
SETOUT COORDINATES	E 33801.708 N 76779.062
RUNNING CHAINAGE	0.000 17.204 17.204

042

STD TYPE A GULLY G1/043	LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 2/041	1050mm DIA
	375
	2
	0.50%
	200.00
	0.16
	0.80
DATUM RL	76.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	88.889 88.880 88.877 88.883
PIPE FLOW (Cumecs)	0.018
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.630 1.759
INVERT LEVEL OF DRAIN	88.779 88.693
DESIGN SURFACE LEVEL	90.409 90.452
SETOUT COORDINATES	E 33796.108 N 76803.447
RUNNING CHAINAGE	0.000 17.203 17.203

043

STD TYPE A GULLY G1/044	LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 2/041	1050mm DIA
	375
	2
	0.50%
	199.99
	0.14
	0.77
DATUM RL	76.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	88.992 88.985 88.970 88.883
PIPE FLOW (Cumecs)	0.016
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.640 1.571
INVERT LEVEL OF DRAIN	88.895 88.881
DESIGN SURFACE LEVEL	90.534 90.452
SETOUT COORDINATES	E 33814.865 N 76807.758
RUNNING CHAINAGE	0.000 2.664 2.664

044

STD TYPE A GULLY G1/045	LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 3/041	1050mm DIA
	375
	2
	0.50%
	200.00
	0.18
	0.82
DATUM RL	76.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	88.786 88.775 88.774 88.789
PIPE FLOW (Cumecs)	0.020
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.630 1.690
INVERT LEVEL OF DRAIN	88.573 88.487
DESIGN SURFACE LEVEL	90.204 90.177
SETOUT COORDINATES	E 33789.836 N 76830.735
RUNNING CHAINAGE	0.000 17.202 17.202

045

STD TYPE A GULLY G1/046	LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 3/041	1050mm DIA
	375
	2
	0.50%
	200.00
	0.16
	0.79
DATUM RL	76.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	88.783 88.774 88.774 88.789
PIPE FLOW (Cumecs)	0.017
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.642 1.569
INVERT LEVEL OF DRAIN	88.631 88.618
DESIGN SURFACE LEVEL	90.273 90.177
SETOUT COORDINATES	E 33808.594 N 76835.047
RUNNING CHAINAGE	0.000 2.665 2.665

046

STD TYPE A GULLY G1/047	LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 4/041	1050mm DIA
	375
	2
	2.46%
	40.63
	0.26
	1.60
DATUM RL	76.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	88.223 88.200 88.218 88.252
PIPE FLOW (Cumecs)	0.028
PIPE CAPACITY AT GRADE (Cumecs)	0.275
DEPTH TO INVERT	1.523 1.496
INVERT LEVEL OF DRAIN	88.055 87.819
DESIGN SURFACE LEVEL	89.577 89.315
SETOUT COORDINATES	E 33786.772 N 76878.418
RUNNING CHAINAGE	0.000 9.567 9.567

047

STD TYPE A GULLY G1/048	LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 4/041	1050mm DIA
	375
	2
	0.50%
	199.99
	0.31
	0.96
DATUM RL	76.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	88.253 88.219 88.218 88.252
PIPE FLOW (Cumecs)	0.035
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.642 1.557
INVERT LEVEL OF DRAIN	87.771 87.758
DESIGN SURFACE LEVEL	89.414 89.315
SETOUT COORDINATES	E 33798.048 N 76880.917
RUNNING CHAINAGE	0.000 2.665 2.665

048

STD TYPE A GULLY G1/049	LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 5/041	1050mm DIA
	375
	2
	2.55%
	39.22
	0.20
	1.52
DATUM RL	75.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	87.537 87.522 87.522 87.566
PIPE FLOW (Cumecs)	0.022
PIPE CAPACITY AT GRADE (Cumecs)	0.280
DEPTH TO INVERT	1.523 1.495
INVERT LEVEL OF DRAIN	87.239 86.995
DESIGN SURFACE LEVEL	88.762 88.490
SETOUT COORDINATES	E 33779.259 N 76919.694
RUNNING CHAINAGE	0.000 9.570 9.570

049

STD TYPE A GULLY G1/050	LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 5/041	1050mm DIA
	375
	2
	0.50%
	200.00
	0.30
	0.95
DATUM RL	76.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	87.553 87.523 87.522 87.566
PIPE FLOW (Cumecs)	0.033
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.644 1.549
INVERT LEVEL OF DRAIN	86.954 86.941
DESIGN SURFACE LEVEL	88.598 88.490
SETOUT COORDINATES	E 33790.701 N 76921.270
RUNNING CHAINAGE	0.000 2.662 2.662

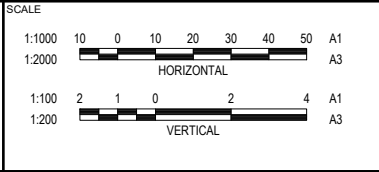
050

STD TYPE A GULLY G1/051	LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 6/041	1050mm DIA
	375
	2
	2.64%
	37.93
	0.20
	1.53
DATUM RL	74.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	86.677 86.662 86.661 86.704
PIPE FLOW (Cumecs)	0.022
PIPE CAPACITY AT GRADE (Cumecs)	0.285
DEPTH TO INVERT	1.524 1.495
INVERT LEVEL OF DRAIN	86.188 85.935
DESIGN SURFACE LEVEL	87.711 87.430
SETOUT COORDINATES	E 33775.237 N 76961.453
RUNNING CHAINAGE	0.000 9.569 9.569

051

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	12.09.24	PM	DH	ORIGINAL ISSUE

DRAWN	STATUS
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION
DESIGN	APPROVED
PM	DANIEL COLLINS RPEQ 18631
	DATE 12.09.24
	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD



CLIENT
PEET FLAGSTONE CITY PTY. LTD.
ASSOCIATED CONSULTANT
VERIS (07) 3666 4700

PROJECT NAME
NEW BEITH ROAD - FLAGSTONE
HOMESTEAD DRIVE FLAGSTONE

DRAWING TITLE
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 7 OF 33
PROJECT No.
22-0145
DRAWING No.
P196
REVISION
A

STRUCTURE NAME	G1/052	6/041
STRUCTURE DESCRIPTION	STD TYPE A GULLY LL; 2.4m LINTEL; TYPE S	STD MANHOLE

STORMWATER
STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS
THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE
LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m >
5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR
STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER
THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX)
MANHOLES:
CONSTRUCT IN ACCORDANCE WITH
COLLIERS STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURES (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)		375	
PIPE CLASS		2	
PIPE GRADE (%)		0.50%	
PIPE SLOPE (1 in X)		200.00	
FULL PIPE VELOCITY (m/s)		0.30	
PART FULL VELOCITY (m/s)		0.95	
DATUM RL		74.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	86.683	86.661	86.661 86.704
PIPE FLOW (Cumecs)		0.033	
PIPE CAPACITY AT GRADE (Cumecs)		0.124	
DEPTH TO INVERT		1.645	1.542
INVERT LEVEL OF DRAIN		85.902	85.888
DESIGN SURFACE LEVEL	87.547		87.430
SETOUT COORDINATES	E 33786.771 N 76962.063		E 33784.571
RUNNING CHAINAGE	0.000	2.663	2.663

LINE	052
------	-----

[illegible]

053

[illegible]

054

Station	Profile	Grade	Offset	Width	Depth	Notes
0.000	E 33777.750	84.965	1.524	83.440	83.759	
9.570	N 77045.246			83.745	83.745	
				83.744	83.744	
9.570	E 33787.305	84.672	1.494	83.178	83.792	

055

[illegible]

056

0.000		E 33784.268	83.494	82.357	STD TYPE A GULLY G1/057	
		N 77086.689		82.342		LIL; 2.4m LINTEL; TYPE S
9.570			81.970	0.022		
				0.291		
9.570		E 33793.834	83.201	82.341		STD MANHOLE 9/041
			81.707	82.391		

057

[illegible]

058

[illegible]

059

[illegible]

060

[illegible]

061

[illegible]

062

[illegible]

063

REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS				SCALE		CLIENT	PROJECT NAME	DRAWING TITLE				
A	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION				1:1000 1:2000		A1 A3	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 8 OF 33			
												1:100 1:200		A1 A3						
							DESIGN	APPROVED		DATE										
							PM	DANIEL COLLINS	RPEQ 18631	12.09.24					ASSOCIATED CONSULTANT					
							FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD							VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P197	REVISION A		

STRUCTURE NAME	G1/064	
STRUCTURE DESCRIPTION	STD TYPE A GULLY LL; 2.4m L INLET; TYPE S	STD MANHOLE 12/041

STORMWATER
STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS
THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE
LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m >
5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR
STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER
THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX)
MANHOLES:
CONSTRUCT IN ACCORDANCE WITH
COLLIERS STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)		375	2
PIPE CLASS			
PIPE GRADE (%)		0.50%	
PIPE SLOPE (1 in X)		199.99	
FULL PIPE VELOCITY (m/s)		0.30	
PART FULL VELOCITY (m/s)		0.95	
DATUM RL		65.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	77.908	77.879	77.878 77.929
PIPE FLOW (Cumecs)		0.033	
PIPE CAPACITY AT GRADE (Cumecs)		0.124	
DEPTH TO INVERT		1.648	1.532
INVERT LEVEL OF DRAIN		77.271	77.258
DESIGN SURFACE LEVEL	78.919		78.790
SETOUT COORDINATES	E 33834.644 N 77200.676		E 33833.444
RUNNING CHAINAGE	0.000	2.662	2.662

LINE 064

	STD TYPE A GULLY G1/065
	LIL; 2.4m LINTEL; TYPE S
	STD MANHOLE 13/041

0.000	E 3394.074	77.612	76.456	375 2
9.569	N 7742.688	76.087	76.441	2.68% 37.33
9.569	F 33853.011	77.326	76.440 76.506	0.20 1.54
			63.0	
			0.022	
			0.287	
			1.525	
			1.496	

065

STD TYPE A GULLY G1/066	LIL: 2.4m LINTEL; TYPE S	13/041
		STD MANHOLE

[illegible]

066

STD TYPE A GULLY G1/067	
LIL: 2.4m LINTEL: TYPE S	11/041

[illegible]

067

STD TYPE A GULLY G1/068	
LIL; 2.4m LINTEL; TYPE S	410/44

0.000	E 33858.871	76.157	74.508	1.649	0.124	0.026	75.182	62.0	0.23 0.88	0.50% 199.99	375 2
2.663	N 77282.740		74.508	1.649	0.124	0.026	75.182	62.0	0.23 0.88	0.50% 199.99	375 2

068

STD TYPE A GULLY G1/069	L11; 2.4m LINTEL; TYPE S	
-------------------------	--------------------------	--

[illegible]

069

STD TYPE A GULLY G1/070	
LIL; 2.4m LINTEL; TYPE S	

0.000	E 3380.280	74.633	73.459	375 2
	N 77318.873	72.985	73.433	0.50% 199.95
2.663		1.648	73.432	0.27 0.92
			61.0	
			0.030	
			0.124	

070

STD TYPE A GULLY G1/071		
LIL; 2.4m LINEEL; TYPE S		

0.000	E 33913.142	73.696	72.385	375 2
17.19	N 77336.598	72.065	72.373	0.64 156.0
				0.18 9.0
		1.631		60.0
				0.020
				0.140

071

STD TYPE A GULLY G1/072		
L1L; 2.4m L1NTEL; TYPE S		

[illegible]

072

	LIL; 2.4m LINTEL; TYPE S	
--	--------------------------	--

[illegible]

07

STD TYPE A GULLY G1/074	LIL; 2.4m LINTEL; TYPE S	
-------------------------	--------------------------	--

0.000	E 33912.904	72.695	71.585	37.2
	N 77373.934		71.672	0.51999
2.6				0.20.8
				59.0
				0.1
				0.0
				1.644
				71.050

07

STD TYPE A GULLY	G1/075
LIL: 2.4m LINTEL: TYPE S	

[illegible]

07

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE 1:1000 1:2000 100 01020304050 A1 A3 HORIZONTAL 1:100 1:200 21024 A1 A3 VERTICAL	CLIENT	DRAWING TITLE	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 9 OF 33			
						DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 12.09.24			ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P198	REVISION A	
						PM	 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD								

STRUCTURE NAME	STD TYPE A GULLY G1/076
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 18/041
	1050mm DIA

STORMWATER STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX) MANHOLES:
CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.21
PART FULL VELOCITY (m/s)	0.85
DATUM RL	58.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	71.009 70.996 70.996 71.020 70.812
PIPE FLOW (Cumecs)	0.023
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.643 1.553 1.772
INVERT LEVEL OF DRAIN	70.361 70.348 70.129
DESIGN SURFACE LEVEL	72.004 71.901
SETOUT COORDINATES	E 33929.216 N 77401.464 E 33931.862 N 77401.773
RUNNING CHAINAGE	0.000 2.663 2.663

LINE 076

STD TYPE A GULLY G1/077	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 19/041	1050mm DIA
375	0.55%	0.18	57.0
2	182.40	0.85	70.266 70.264 70.289 70.069
0.000			71.489
17.194			N 77419.188
17.194			E 33948.174
2.663			N 77429.303

077

STD TYPE A GULLY G1/078	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 19/041	1050mm DIA
375	0.50%	0.21	57.0
2	199.99	0.85	70.264 70.264 70.289 70.069
0.000			71.384
2.663			E 33945.528
2.663			N 77428.995
2.663			E 33948.174
2.663			N 77429.303

078

STD TYPE A GULLY G1/079	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 20/041	1050mm DIA
375	0.55%	0.18	55.0
2	182.40	0.85	69.502 69.501 69.501 69.517 69.372
0.000			70.849
17.194			N 77446.719
17.194			E 33964.486
2.663			N 77456.834

079

STD TYPE A GULLY G1/080	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 20/041	1050mm DIA
375	0.50%	0.21	56.0
2	199.99	0.85	69.501 69.501 69.501 69.517 69.372
0.000			70.724
2.663			N 77456.525
2.663			E 33964.486
2.663			N 77456.834

080

STD TYPE A GULLY G1/081	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 21/041	1050mm DIA
375	0.55%	0.18	54.0
2	182.40	0.85	68.889 68.878 68.877 68.893 68.740
0.000			70.209
17.194			N 77474.249
17.194			E 33980.798
2.663			N 77484.364

081

STD TYPE A GULLY G1/082	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 21/041	1050mm DIA
375	0.50%	0.21	54.0
2	199.99	0.85	68.892 68.877 68.877 68.893 68.740
0.000			70.084
2.663			N 77484.055
2.663			E 33980.798
2.663			N 77484.364

082

STD TYPE A GULLY G1/083	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 22/041	1050mm DIA
375	0.55%	0.18	53.0
2	182.40	0.85	68.265 68.253 68.252 68.269 68.108
0.000			69.569
17.194			N 77501.779
17.194			E 33997.110
2.663			N 77511.894

083

STD TYPE A GULLY G1/084	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 22/041	1050mm DIA
375	0.50%	0.21	53.0
2	199.99	0.85	68.267 68.252 68.252 68.269 68.108
0.000			69.444
2.663			N 77511.596
2.663			E 33997.110
2.663			N 77511.894

084

STD TYPE A GULLY G1/085	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 23/041	1050mm DIA
375	0.55%	0.18	52.0
2	182.40	0.85	67.639 67.628 67.626 67.644 67.475
0.000			68.929
17.194			N 77529.310
17.194			E 34013.422
2.663			N 77539.425

085

STD TYPE A GULLY G1/086	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 23/041	1050mm DIA
375	0.50%	0.21	53.0
2	199.99	0.85	67.642 67.627 67.626 67.644 67.475
0.000			68.804
2.663			N 77539.116
2.663			E 34013.422
2.663			N 77539.425

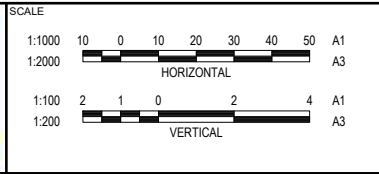
086

STD TYPE A GULLY G1/087	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 24/041	1050mm DIA
375	0.55%	0.18	52.0
2	182.40	0.85	67.095 67.083 67.081 67.100 66.922
0.000			68.289
17.194			N 77556.840
17.194			E 34029.734
2.663			N 77566.955

087

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	12.09.24	PM	DH	ORIGINAL ISSUE

DRAWN	STATUS
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION
DESIGN	APPROVED
PM	DANIEL COLLINS RPEQ 18631 12.09.24
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	



CLIENT
PEET FLAGSTONE CITY PTY. LTD.
ASSOCIATED CONSULTANT
VERIS (07) 3666 4700

PROJECT NAME
NEW BEITH ROAD - FLAGSTONE
HOMESTEAD DRIVE FLAGSTONE

DRAWING TITLE
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 10 OF 33
PROJECT No.
22-0145
DRAWING No.
P199
REVISION
A

STRUCTURE NAME	G1/088	
STRUCTURE DESCRIPTION	STD TYPE A GULLY LIL; 2.4m L INTEL; TYPE S	24/041 STD MANHOLE

STORMWATER
STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS
THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE
LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m >
5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR
STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER
THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX)
MANHOLES:
CONSTRUCT IN ACCORDANCE WITH
COLLIERS STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)		375
PIPE CLASS		2
PIPE GRADE (%)		0.50%
PIPE SLOPE (1 in X)		199.99
FULL PIPE VELOCITY (m/s)		0.21
PART FULL VELOCITY (m/s)		0.85
DATUM RL		53.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	67.096	67.082 67.081 67.100
PIPE FLOW (Cumecs)		0.023
PIPE CAPACITY AT GRADE (Cumecs)		0.124
DEPTH TO INVERT		1.643 1.553
INVERT LEVEL OF DRAIN		66.521 66.508
DESIGN SURFACE LEVEL	68.164	68.061
SETOUT COORDINATES	E 34027.088 N 77566.646	E 34029.734
RUNNING CHAINAGE	0.000	2.663

LINE 088

[illegible]

089

	ELEVATION	STATIONING	TYPE	DESCRIPTION	REMARKS
0.000	67.524	N 77594.176	STD TYPE A GULLY	G1/090	LIL; 2.4m LINTEL; TYPES S
2.663	67.421	E 34046.046	STD MANHOLE	25/041	

090

[illegible]

091

[illegible]

092

0.000		E 34082.574	66.369	65.133	375 2		0.55% 182.40		0.18 0.85		52.0		0.020		0.130		1.630		64.739		N 7639.431		E 34082.574		66.369		STD TYPE A GULLY G1/093	
17.194				65.122																							LIL; 2.4m LINTEL; TYPE S	
17.194		E 34078.670		66.141															64.645				E 34078.670		66.141		STD MANHOLE 27/041	

093

[illegible]

094

[illegible]

095

STATION	VERTICAL CURVE DATA	VERTICAL ALIGNMENT	PLAN VIEW	STATION	VERTICAL CURVE DATA	VERTICAL ALIGNMENT	PLAN VIEW	STATION
0.000	E 34082.336	65.604		64.378				STD TYPE A GULLY G1/096
				64.363	1.643			LL1: 2.4m LINTEL, TYPE S
				64.362	63.961	0.023		
				64.376	63.948	0.124		
				64.376	63.948	1.553		
2.663	N 77676.767							
2.663	E 34084.982	65.501						STD MANHOLE 28/041

096

Station	Profile	Height	Width	Depth	Area	Volume	Notes
0.000	E 34125.198	65.089	63.747	375	51.0	0.020	STD TYPE A GULLY G1/097
17.194	N 77694.492	63.459	63.736	182.40	0.18	0.130	LLI; 2.4m LINTEL; TYPE S
17.194	E 34111.294	64.861	63.734	0.85	63.749	1.496	STD MANHOLE 29/041

097

[illegible]

098

[illegible]

099

[illegible]

DRAWN	STATUS	
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	
DESIGN	APPROVED	DATE
PM	DANIEL COLLINS RPEQ 18631	12.09.24
		
FOR AND ON BEHALF OF COLLIERIES INTERNATIONAL ENGINEERING & DESIGN PTY LTD		



SCALE

1:1000 10 0 10 20 30 40 50 A1
1:2000

HORIZONTAL

1:100 2 1 0 2 4 A1
1:200

VERTICAL

A3

CLIENT

PEET FLAGSTONE CITY PTY. LTD.

ASSOCIATED CONSULTANT

VERIS
(07) 3666 4700

PROJECT NAME

NEW BEITH ROAD - FLAGSTONE

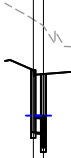
HOMESTEAD DRIVE
FLAGSTONE

DRAWING TITLE		
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 11 OF 33		
PROJECT No.	DRAWING No.	REVISION
22-0145	P200	A

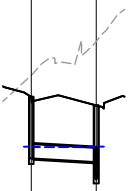
STRUCTURE NAME	STD TYPE A GULLY G1/100
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 30/041
	1050mm DIA

STORMWATER STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX) MANHOLES:
CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

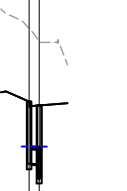
PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.21
PART FULL VELOCITY (m/s)	0.85
DATUM RL	51.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	63.121 63.106 63.106 63.121 62.970
PIPE FLOW (Cumecs)	0.023
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.643 1.553 1.913
INVERT LEVEL OF DRAIN	62.681 62.668 62.308
DESIGN SURFACE LEVEL	64.324 64.221
SETOUT COORDINATES	E 34124.960 N 77731.828 E 34127.606 N 77732.137
RUNNING CHAINAGE	0.000 2.663 2.663



STD TYPE A GULLY G1/101
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 31/041
1050mm DIA



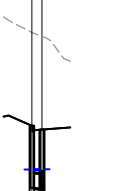
STD TYPE A GULLY G1/102
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 31/041
1050mm DIA



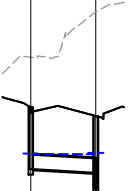
STD TYPE A GULLY G1/103
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 32/041
1050mm DIA



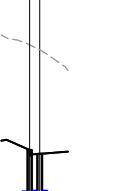
STD TYPE A GULLY G1/104
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 32/041
1050mm DIA



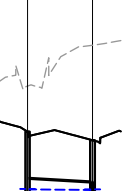
STD TYPE A GULLY G1/105
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 33/041
1050mm DIA



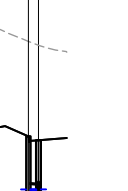
STD TYPE A GULLY G1/106
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 33/041
1050mm DIA



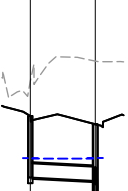
STD TYPE A GULLY G1/107
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 34/041
1050mm DIA



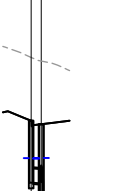
STD TYPE A GULLY G1/108
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 34/041
1050mm DIA



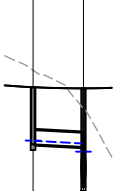
STD TYPE A GULLY G1/109
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 35/041
1050mm DIA



STD TYPE A GULLY G1/110
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 35/041
1050mm DIA

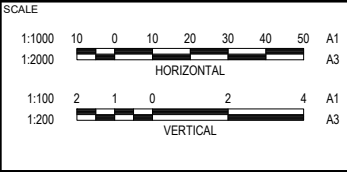


STD TYPE A GULLY G1/111
LIL: 2.4m LINTEL, TYPE S
STD TYPE A GULLY (SAG) G2/001
LIL: 2.4m LINTEL, TYPE S



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	12.09.24	PM	DH	ORIGINAL ISSUE

DRAWN	STATUS
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION
DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24
PM	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD



CLIENT
PEET FLAGSTONE CITY PTY. LTD.
ASSOCIATED CONSULTANT
VERIS (07) 3666 4700

PROJECT NAME
NEW BEITH ROAD - FLAGSTONE
HOMESTEAD DRIVE FLAGSTONE

DRAWING TITLE
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 12 OF 33
PROJECT No.
22-0145
DRAWING No.
P201
REVISION
A

STRUCTURE NAME	STRUCTURE DESCRIPTION	STD TYPE A GULLY L1.; 2.4m LINTEL; TYPE S	G2/1012	G2/1001

**STORMWATER
STRUCTURE NOTE:**
STANDARD ROUND MANHOLES LESS
THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE
LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m >
5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR
STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER
THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX)
MANHOLES:
CONSTRUCT IN ACCORDANCE WITH
COLLIERS STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)		375
PIPE CLASS		2
PIPE GRADE (%)		0.50%
PIPE SLOPE (1 in X)		200.00
FULL PIPE VELOCITY (m/s)		0.14
PART FULL VELOCITY (m/s)		0.77
DATUM RL		46.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	59.649	59.642 59.574 59.359
PIPE FLOW (Cumecs)		0.016
PIPE CAPACITY AT GRADE (Cumecs)		0.124
DEPTH TO INVERT		1.512 1.547
INVERT LEVEL OF DRAIN		59.551 59.484
DESIGN SURFACE LEVEL	61.063	61.031
SETOUT COORDINATES	E 34237.315 N 77913.409	E 34232.946 N 77913.409
RUNNING CHAINAGE	0.000	13.340

LINE 112

STD TYPE A GULLY	G1/113
LIL: 2.4m LINTEL: TYPE S	
STD MANHOLE	36/041

0.000	E 34210.343	60.938	59.924						
	N 77895.101		59.915	0.018	0.16	0.50%	375		
2.663		59.300	59.915	0.124	0.80	199.99	2		
2.663	E 34212.895	60.860	59.941						

113

[illegible]

200

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE		CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			1:1000		A1	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 13 OF 33	
								1:2000		HORIZONTAL		A3				
								1:100			A1					
						DESIGN	APPROVED	DATE	1:200		A3	ASSOCIATED CONSULTANT				
						PM	DANIEL COLLINS RPEQ 18631 12.09.24					VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P202	REVISION A
						FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD										

STRUCTURE NAME	13/200	14/200	15/200	16/200	17/200	18/200	19/200	20/200	21/200	22/200	OUTLET 1/200
STRUCTURE DESCRIPTION	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL, TYPE S	
STORMWATER STRUCTURE NOTE: STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP: CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS. STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP: CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308. STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP: SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS. ROUND EXTENDED (900mm MAX) MANHOLES: CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102. NON-STANDARD STRUCTURE (SPECIAL): SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.											
PIPE SIZE (mm)	525	525	525	525	525	600	750	900	900	900	
PIPE CLASS	2	2	2	2	2	2	2	2	2	2	
PIPE GRADE (%)	5.38%	5.38%	5.38%	5.38%	5.37%	3.74%	1.47%	0.50%	0.50%	1.03%	
PIPE SLOPE (1 in X)	18.59	18.59	18.59	18.59	18.63	26.73	67.93	200.00	200.00	97.04	
FULL PIPE VELOCITY (m/s)	3.09	3.34	3.60	3.85	4.09	3.32	2.25	1.58	1.95	2.02	
PART FULL VELOCITY (m/s)	4.94	5.02	5.10	5.16	5.20	4.66	3.34	2.23	2.29	3.12	
DATUM RL	52.0				44.0						
H.G.L IN PIPE & W.S.E IN STRUCTURE	70.662 70.707 70.359	68.056 68.102 67.723	65.454 65.500 65.089	62.849 62.895 62.452	60.238 60.283 59.809	57.287 57.327 56.999	55.683 55.701 55.556	55.318 55.349 55.144	55.108 55.178 54.651	54.594 54.603 54.504	54.254 54.254 54.254
PIPE FLOW (Cumecs)	0.668	0.723	0.778	0.833	0.886	0.940	0.992	1.006	1.240	1.284	
PIPE CAPACITY AT GRADE (Cumecs)	0.998	0.998	0.998	0.998	0.997	1.188	1.351	1.281	1.281	1.838	
DEPTH TO INVERT	1.563 1.695	1.637 1.695	1.637 1.695	1.637 1.695	1.637 1.700	1.644 1.935	1.894 1.978	1.960 2.066	2.175 2.195	2.371 2.391	1.550 1.550
INVERT LEVEL OF DRAIN	69.989 69.857	67.273 67.215	64.635 64.577	61.995 61.937	59.355 59.292	56.715 56.424	54.629 54.546	54.104 53.999	53.941 53.921	53.853 53.833	53.700 53.700
DESIGN SURFACE LEVEL	71.562	68.910	66.272	63.632	60.992	58.359	56.523	56.064	56.115	56.224	55.250
SETOUT COORDINATES	E 33758.850 N 76712.848	E 33751.176 N 76165.435	E 33743.511 N 76118.081	E 33735.841 N 76070.698	E 33728.172 N 76023.315	E 33720.502 N 75975.931	E 33712.833 N 75928.548	E 33708.039 N 75898.933	E 33709.736 N 75887.515	E 33723.179 N 75885.340	E 33735.896 N 75883.281
RUNNING CHAINAGE	519.597	48.030	567.627	47.970	615.597	48.000	663.597	48.000	711.597	48.000	759.597

LINE

200

STD TYPE A GULLY G1/201	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 1050mm DIA
375	2	
2.27%	43.98	
0.19	1.42	
76.0		
89.267	89.255	89.006
89.008	88.988	
89.152	1.522	88.935
90.431	1.497	88.838
90.674	1.594	
0.000	E 33824.499	90.674
N 76727.696		
9.571	E 33815.464	90.431
N 76724.537		

201

STD TYPE A GULLY G1/202	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 1050mm DIA
375	2	
2.34%	42.81	
0.18	1.43	
76.0		
89.080	89.068	88.912
88.922	88.859	
88.966	1.522	88.671
90.239	1.496	88.651
90.489	1.588	
0.000	E 33828.691	90.489
N 76697.317		
9.571	E 33819.481	90.239
N 76694.713		

202

STD TYPE A GULLY G1/203	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 1050mm DIA
375	2	
0.50%	200.00	
0.19	0.83	
76.0		
88.925	88.912	88.912
88.922	88.859	
88.925	1.639	88.684
90.324	1.568	88.671
90.324	1.588	
0.000	E 33817.206	90.324
N 76696.095		
2.662	E 33819.481	90.239
N 76694.713		

203

STD TYPE A GULLY G1/206	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 1050mm DIA
375	2	
2.42%	41.36	
0.24	1.57	
76.0		
88.671	88.651	88.619
88.645	88.645	
88.651	1.523	88.534
90.057	1.496	88.303
90.057	1.581	
0.000	E 33831.381	90.057
N 76657.054		
9.572	E 33821.992	88.799
N 76655.192		

206

STD TYPE A GULLY G1/207	LIL: 2.4m LINTEL, TYPE S	STD MANHOLE 1050mm DIA
375	2	
0.50%	200.00	
0.25	0.90	
76.0		
88.641	88.619	88.619
88.645	88.645	
88.641	1.641	88.251
88.892	1.561	88.238
88.892	1.581	
0.000	E 33819.835	88.892
N 76656.752		
2.662	E 33821.992	88.799
N 76655.192		

207

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	12.09.24	PM	DH	ORIGINAL ISSUE	DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	1:1000 10 0 10 20 30 40 50 A1 1:2000 HORIZONTAL 1:100 2 1 0 2 4 A1 1:200 VERTICAL	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 14 OF 33
					DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24		ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145 DRAWING No. P203 REVISION A
					PM	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD				

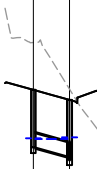


STRUCTURE NAME	STD TYPE A GULLY G1/208
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 4/200
	1050mm DIA

STORMWATER STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX) MANHOLES:
CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.49%
PIPE SLOPE (1 in X)	40.09
FULL PIPE VELOCITY (m/s)	0.24
PART FULL VELOCITY (m/s)	1.58
DATUM RL	76.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	88.130 88.110 88.112 88.154 87.883
PIPE FLOW (Cumecs)	0.027
PIPE CAPACITY AT GRADE (Cumecs)	0.277
DEPTH TO INVERT	1.523 1.495 1.574
INVERT LEVEL OF DRAIN	87.888 87.649 87.571
DESIGN SURFACE LEVEL	89.411 89.145 89.145
SETOUT COORDINATES	E 33830.844 N 76616.704 E 33821.336 N 76615.598
RUNNING CHAINAGE	0.000 9.572 9.572

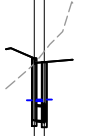
LINE 208



STD TYPE A GULLY G1/209
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 4/200
1050mm DIA

375
2
0.50%
200.00
0.25
0.90
75.0
88.135 88.113 88.112 88.154 87.883
0.027
0.124
1.643 1.554 1.574
87.604 87.591 87.571
89.247 89.145 89.145
E 33819.310 N 76617.325 E 33821.336 N 76615.598
0.000 2.662 2.662

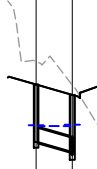
209



STD TYPE A GULLY G1/210
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 5/200
1050mm DIA

375
2
2.58%
38.83
0.24
1.60
75.0
87.475 87.454 87.452 87.489 87.172
0.027
0.281
1.524 1.495 1.567
87.029 86.782 86.711
88.552 88.277 88.277
E 33827.083 N 76576.528 E 33817.517 N 76576.182
0.000 9.572 9.572

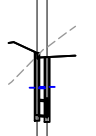
210



STD TYPE A GULLY G1/211
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 5/200
1050mm DIA

375
2
0.50%
199.99
0.25
0.90
74.0
87.468 87.452 87.452 87.489 87.172
0.027
0.124
1.644 1.547 1.567
86.744 86.731 86.711
88.388 88.277 88.277
E 33815.636 N 76576.066 E 33817.517 N 76576.182
0.000 2.662 2.662

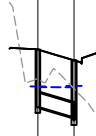
211



STD TYPE A GULLY G1/212
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 6/200
1050mm DIA

375
2
2.66%
37.64
0.24
1.61
73.0
86.502 86.482 86.480 86.515 86.193
0.026
0.286
1.524 1.494 1.560
85.951 85.697 85.631
87.475 87.192 87.192
E 33820.828 N 76536.721 E 33811.259 N 76536.634
0.000 9.570 9.570

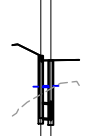
212



STD TYPE A GULLY G1/213
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 6/200
1050mm DIA

375
2
0.50%
199.99
0.25
0.90
73.0
86.494 86.480 86.480 86.515 86.193
0.027
0.124
1.646 1.540 1.560
85.665 85.651 85.631
87.311 87.192 87.192
E 33809.427 N 76536.566 E 33811.259 N 76536.634
0.000 2.663 2.663

213



STD TYPE A GULLY G1/214
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 7/200
1050mm DIA

375
2
0.68%
146.90
0.23
0.98
72.0
85.193 85.178 85.174 85.216 84.821
0.025
0.145
1.631 1.495 1.553
84.519 84.402 84.344
86.150 85.897 85.897
E 33822.023 N 76496.007 E 33804.868 N 76497.148
0.000 17.194 17.194

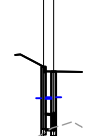
214



STD TYPE A GULLY G1/215
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 7/200
1050mm DIA

375
2
0.50%
199.99
0.26
0.91
72.0
85.190 85.175 85.174 85.216 84.821
0.028
0.124
1.647 1.533 1.553
84.377 84.364 84.344
86.025 85.897 85.897
E 33803.035 N 76496.080 E 33804.868 N 76497.148
0.000 2.663 2.663

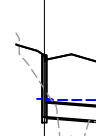
215



STD TYPE A GULLY G1/216
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 8/200
1050mm DIA

375
2
0.74%
135.35
0.27
1.06
70.0
83.171 83.145 83.140 83.185 82.864
0.030
0.151
1.631 1.495 1.614
82.694 82.567 82.448
84.325 84.062 84.062
E 33814.354 N 76448.623 E 33797.198 N 76449.764
0.000 17.194 17.194

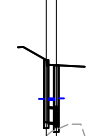
216



STD TYPE A GULLY G1/217
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 8/200
1050mm DIA

375
2
0.50%
199.99
0.31
0.96
70.0
83.172 83.141 83.140 83.185 82.864
0.034
0.124
1.649 1.524 1.614
82.551 82.537 82.448
84.200 84.062 84.062
E 33795.366 N 76451.697 E 33797.198 N 76449.764
0.000 2.663 2.663

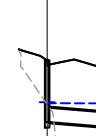
217



STD TYPE A GULLY G1/218
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 9/200
1050mm DIA

375
2
0.79%
126.12
0.27
1.09
68.0
81.084 81.058 81.053 81.099 80.731
0.030
0.156
1.631 1.495 1.617
80.561 80.424 80.302
82.192 81.919 81.919
E 33806.684 N 76401.240 E 33789.528 N 76402.381
0.000 17.194 17.194

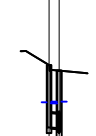
218



STD TYPE A GULLY G1/219
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 9/200
1050mm DIA

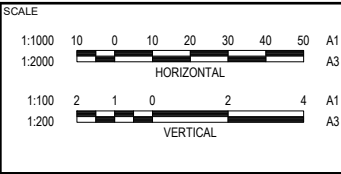
375
2
0.50%
199.99
0.31
0.96
68.0
81.082 81.054 81.053 81.099 80.731
0.034
0.124
1.651 1.516 1.617
80.416 80.403 80.302
82.067 81.919 81.919
E 33787.696 N 76404.314 E 33789.528 N 76402.381
0.000 2.663 2.663

219



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	12.09.24	PM	DH	ORIGINAL ISSUE

DRAWN	STATUS
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION
DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24
PM	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD



CLIENT
PEET FLAGSTONE CITY PTY. LTD.
ASSOCIATED CONSULTANT
VERIS (07) 3666 4700

PROJECT NAME
NEW BEITH ROAD - FLAGSTONE
HOMESTEAD DRIVE FLAGSTONE

DRAWING TITLE
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 15 OF 33
PROJECT No. 22-0145
DRAWING No. P204
REVISION A

STRUCTURE NAME	G1/220	
STRUCTURE DESCRIPTION	STD TYPE A GULLY LL.; 2.4m LINTEL; TYPE S	STD MANHOLE 10/200

**STORMWATER
STRUCTURE NOTE:**
STANDARD ROUND MANHOLES LESS
THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE
LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m >
5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR
STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER
THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX)
MANHOLES:
CONSTRUCT IN ACCORDANCE WITH
COLLIERS STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)		375	
PIPE CLASS		2	
PIPE GRADE (%)		0.85%	
PIPE SLOPE (1 in X)		117.38	
FULL PIPE VELOCITY (m/s)		0.27	
PART FULL VELOCITY (m/s)		1.12	
DATUM RL		65.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	78.685	78.658	78.653 78.700
PIPE FLOW (Cumecs)		0.030	
PIPE CAPACITY AT GRADE (Cumecs)		0.162	
DEPTH TO INVERT		1.632	1.494
INVERT LEVEL OF DRAIN		78.121	77.975
DESIGN SURFACE LEVEL	79.753		79.469
SETOUT COORDINATES	E 33799.015 N 76353.857		79.469 E 33781.859
RUNNING CHAINAGE	0.000		17.194 17.194

LINE 220

STD TYPE A GULLY G1/221	
LIL; 2.4m LINTEL; TYPE S	
STD MANHOLE	10/200

	0.000	E 33780.027	79.628	1.653	77.975	1.507	0.124	0.034	78.654	78.680	375 2
	2.663	N 76366.930							65.0	199.99	0.50%
	2.663	F 33781.859	79.469		77.962				78.653	78.680	0.31 0.96

221

STD TYPE A GULLY G1/222	
LIL, 2.4m LINTEL; TYPE S	11/200
STD MANHOLE	

0.000	E 33791.345	77.117	76.096	375 2
17.194	N 76306.474	75.485	76.071	0.86% 116.49
47.104	E 33774.480	76.832	76.066	0.27 1.12
			76.413	62.0
			0.030	
			0.163	
			1632	
			1.404	
			75.337	

222

STD TYPE A GULLY G1/223	
LIL; 2.4m LINTEL; TYPE S	11/200

0.000	E 33772.357	76.992	76.090	62.0	0.31 0.96	0.50% 199.99	375 2
2.663	N 76309.547	75.339	76.067	0.034			
		1.653	76.086	0.124			

223

STD TYPE A GULLY G1/224	
LIL; 2.4m LINTEL; TYPE S	40000

0.000	E 33783.675	74.477	73.500	← 375 2
17.194	N 76259.090		73.478	← 0.86% 116.49
				← 0.27 1.12
			60.0	
			73.473	
				0.030
				0.163
			1.632	
			72.845	

224

STD TYPE A GULLY G1/225	LIL: 2.4m LINTEL; TYPE S	1.21225
-------------------------	--------------------------	---------

0.000	E 33764.687	74.352	73.496	60.0	0.31 0.96	0.50% 199.99	375 2
2.663	N 76262.164	72.699	1.653	0.124	0.034	73.474	73.473

225

STD TYPE A GULLY G1/226	LIL: 2.4m LINTEL; TYPE S
-------------------------	--------------------------

[illegible]

226

STD TYPE A GULLY G1/227	
LIL; 2.4m LINTEL; TYPE S	

0.000	E 33757.018	71.712	70.693
2.663	N 76214.780		70.663
		70.059	
		1.653	
			0.124
			0.034
			58.0
			0.96
			0.31
			199.9
			0.50
			375

227

STD TYPE A GULLY G1/228	LIL; 2.4m LINTEL; TYPE S
-------------------------	--------------------------

0.000	E 33768.336	69.197	68.088	375.2
17.19	N 76164.324		68.061	0.87
				115.2
				0.27
				1.13
				56.0
				0.03
				0.16
			1.632	
			67.565	

228

STD TYPE A GULLY G1/229	
LIL: 2.4m LINTEL: TYPE S	

0.000	E 33749.348	69.072	68.085	37.2
	N 76167.397	67.418	68.057	0.50
		1.653		199
				0.3
				0.9
				55.0
				0.03
				0.12
				2.66

22

STD TYPE A GULLY G1/230	LIL; 2,4m LINTEL; TYPE S	
-------------------------	--------------------------	--

[illegible]

23

STD TYPE A GULLY G1/231	
LIL; 2.4m LINTEL; TYPE S	

0.000	E 33741.679	66.432	65.481	53.0	0.0	0.0	0.5	3.0
2.0	N 7620.014		65.455	1.653	0.0	0.0	199	
			64.779					

23

[illegible]

DRAWN	STATUS		
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		
DESIGN	APPROVED	RPEQ 18631	DATE 12.09.2012
PM	 DANIEL COLLINS		
FOR AND ON BEHALF OF COLLIERIES INTERNATIONAL ENGINEERING & DESIGN PTY LTD			



SCALE

1:1000 10 0 10 20 30 40 50 A1
1:2000 A3

HORIZONTAL

1:100 2 1 0 2 4 A1
1:200 A3

VERTICAL

CLIENT

PEET FLAGSTONE CITY PTY. LTD.

ASSOCIATED CONSULTANT

VERIS
(07) 3666 4700

PROJECT NAME

NEW BEITH ROAD - FLAGSTONE

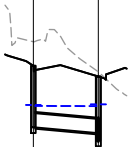
HOMESTEAD DRIVE
FLAGSTONE

DRAWING TITLE		
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 16 OF 33		
PROJECT No.	DRAWING No.	REVISION
22-0145	P205	A

STRUCTURE NAME	STD TYPE A GULLY G1/232
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 16/200
	1050mm DIA

STORMWATER STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX) MANHOLES:
CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

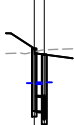
PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.86%
PIPE SLOPE (1 in X)	116.49
FULL PIPE VELOCITY (m/s)	0.27
PART FULL VELOCITY (m/s)	1.12
DATUM RL	50.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	62.879 62.854 62.849 62.895 62.452
PIPE FLOW (Cumecs)	0.030
PIPE CAPACITY AT GRADE (Cumecs)	0.163
DEPTH TO INVERT	1.632 1.494 1.695
INVERT LEVEL OF DRAIN	62.285 62.137 61.937
DESIGN SURFACE LEVEL	63.917 63.632
SETOUT COORDINATES	E 33752.997 N 76069.557 E 33735.841 N 76070.698
RUNNING CHAINAGE	0.000 17.194 17.194



232

STD TYPE A GULLY G1/233
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 16/200
1050mm DIA

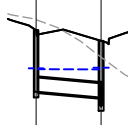
PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.31
PART FULL VELOCITY (m/s)	0.96
DATUM RL	50.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	62.874 62.850 62.849 62.895 62.452
PIPE FLOW (Cumecs)	0.034
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.653 1.506 1.695
INVERT LEVEL OF DRAIN	62.139 62.125 61.937
DESIGN SURFACE LEVEL	63.792 63.632
SETOUT COORDINATES	E 33734.009 N 76072.630 E 33735.841 N 76070.698
RUNNING CHAINAGE	0.000 2.663 2.663



233

STD TYPE A GULLY G1/234
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 17/200
1050mm DIA

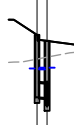
PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.86%
PIPE SLOPE (1 in X)	116.49
FULL PIPE VELOCITY (m/s)	0.27
PART FULL VELOCITY (m/s)	1.12
DATUM RL	47.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	60.266 60.243 60.238 60.283 59.809
PIPE FLOW (Cumecs)	0.030
PIPE CAPACITY AT GRADE (Cumecs)	0.163
DEPTH TO INVERT	1.632 1.494 1.700
INVERT LEVEL OF DRAIN	59.645 59.497 59.292
DESIGN SURFACE LEVEL	61.277 60.992
SETOUT COORDINATES	E 33745.327 N 76022.174 E 33728.172 N 76023.315
RUNNING CHAINAGE	0.000 17.194 17.194



234

STD TYPE A GULLY G1/235
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 17/200
1050mm DIA

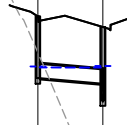
PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.31
PART FULL VELOCITY (m/s)	0.96
DATUM RL	47.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	60.262 60.239 60.238 60.283 59.809
PIPE FLOW (Cumecs)	0.034
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.653 1.506 1.700
INVERT LEVEL OF DRAIN	59.499 59.485 59.292
DESIGN SURFACE LEVEL	61.152 60.992
SETOUT COORDINATES	E 33726.339 N 76025.247 E 33728.172 N 76023.315
RUNNING CHAINAGE	0.000 2.663 2.663



235

STD TYPE A GULLY G1/236
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 18/200
1050mm DIA

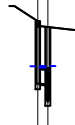
PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.83%
PIPE SLOPE (1 in X)	120.15
FULL PIPE VELOCITY (m/s)	0.27
PART FULL VELOCITY (m/s)	1.11
DATUM RL	44.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	57.315 57.289 57.287 57.327 56.999
PIPE FLOW (Cumecs)	0.030
PIPE CAPACITY AT GRADE (Cumecs)	0.160
DEPTH TO INVERT	1.632 1.494 1.935
INVERT LEVEL OF DRAIN	57.008 56.865 56.424
DESIGN SURFACE LEVEL	58.639 58.359
SETOUT COORDINATES	E 33737.658 N 75974.790 E 33720.502 N 75975.931
RUNNING CHAINAGE	0.000 17.194 17.194



236

STD TYPE A GULLY G1/237
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 18/200
1050mm DIA

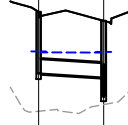
PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.31
PART FULL VELOCITY (m/s)	0.96
DATUM RL	44.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	57.321 57.288 57.287 57.327 56.999
PIPE FLOW (Cumecs)	0.034
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.653 1.511 1.935
INVERT LEVEL OF DRAIN	56.862 56.848 56.424
DESIGN SURFACE LEVEL	58.514 58.359
SETOUT COORDINATES	E 33718.670 N 75977.864 E 33720.502 N 75975.931
RUNNING CHAINAGE	0.000 2.663 2.663



237

STD TYPE A GULLY G1/238
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 19/200
1050mm DIA

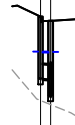
PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.59%
PIPE SLOPE (1 in X)	168.17
FULL PIPE VELOCITY (m/s)	0.27
PART FULL VELOCITY (m/s)	0.98
DATUM RL	42.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	55.714 55.689 55.683 55.701 55.556
PIPE FLOW (Cumecs)	0.030
PIPE CAPACITY AT GRADE (Cumecs)	0.135
DEPTH TO INVERT	1.630 1.496 1.978
INVERT LEVEL OF DRAIN	55.130 55.027 54.546
DESIGN SURFACE LEVEL	56.760 56.523
SETOUT COORDINATES	E 33729.988 N 75927.407 E 33712.833 N 75928.548
RUNNING CHAINAGE	0.000 17.194 17.194



238

STD TYPE A GULLY G1/239
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 19/200
1050mm DIA

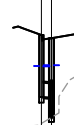
PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.31
PART FULL VELOCITY (m/s)	0.96
DATUM RL	42.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	55.709 55.684 55.683 55.701 55.556
PIPE FLOW (Cumecs)	0.034
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.645 1.546 1.978
INVERT LEVEL OF DRAIN	54.990 54.977 54.546
DESIGN SURFACE LEVEL	56.635 56.523
SETOUT COORDINATES	E 33711.000 N 75930.481 E 33712.833 N 75928.548
RUNNING CHAINAGE	0.000 2.663 2.663



239

STD TYPE A GULLY G1/240
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 20/200
1050mm DIA

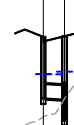
PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.19
PART FULL VELOCITY (m/s)	0.84
DATUM RL	42.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	55.327 55.318 55.318 55.349 55.144
PIPE FLOW (Cumecs)	0.021
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.640 1.570 2.066
INVERT LEVEL OF DRAIN	54.508 54.495 53.999
DESIGN SURFACE LEVEL	56.148 56.064
SETOUT COORDINATES	E 33706.207 N 75900.866 E 33708.039 N 75898.933
RUNNING CHAINAGE	0.000 2.663 2.663



240

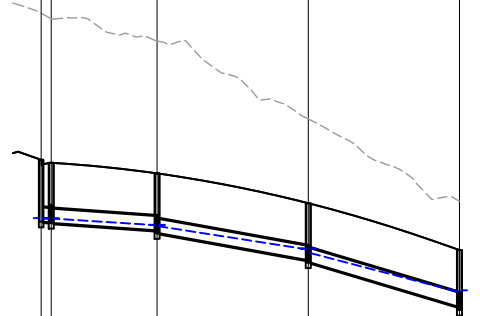
STD TYPE A GULLY (SAG) G1/241
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 21/200
1050mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	200.00
FULL PIPE VELOCITY (m/s)	0.15
PART FULL VELOCITY (m/s)	0.79
DATUM RL	42.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	55.116 55.109 55.108 55.178 54.651
PIPE FLOW (Cumecs)	0.017
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.629 1.673 2.195
INVERT LEVEL OF DRAIN	54.470 54.442 53.921
DESIGN SURFACE LEVEL	56.099 56.115
SETOUT COORDINATES	E 33704.191 N 75888.413 E 33709.736 N 75887.515
RUNNING CHAINAGE	0.000 5.617 5.617



241

STD TYPE A GULLY G1/242
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 1/242
1050mm DIA
STD MANHOLE 2/242
1050mm DIA
STD MANHOLE 3/242
1050mm DIA
STD MANHOLE 4/242
1050mm DIA



242

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	12.09.24	PM	DH	ORIGINAL ISSUE	DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	1:1000 1:2000 HORIZONTAL 1:100 1:200 VERTICAL	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 17 OF 33
					DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24		ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145 DRAWING No. P206 REVISION A
					PM	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD				

STRUCTURE NAME	G1/253	
STRUCTURE DESCRIPTION	STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S	22/200 STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL: TYPE S

STORMWATER
STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS
THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE
LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m >
5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR
STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER
THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX)
MANHOLES:
CONSTRUCT IN ACCORDANCE WITH
COLLIERS STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)			375	
PIPE CLASS			2	
PIPE GRADE (%)			0.50%	
PIPE SLOPE (1 in X)			200.00	
FULL PIPE VELOCITY (m/s)			0.17	
PART FULL VELOCITY (m/s)			0.81	
DATUM RL			42.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	54.865	54.854	54.790	54.504
			54.603	
PIPE FLOW (Cumecs)			0.019	
PIPE CAPACITY AT GRADE (Cumecs)			0.124	
DEPTH TO INVERT		1.518	1.532	2.391
INVERT LEVEL OF DRAIN		54.755	54.692	53.833
DESIGN SURFACE LEVEL	56.273		56.224	
SETOUT COORDINATES	E 33721.163	N 75872.887	E 33723.179	N 75885.340
RUNNING CHAINAGE	0.000		12.615	

LINE 253

STD TYPE A GULLY (SAG)	22/200
LIL: 2.4m LINTEL; TYPE S	

0.000	E 33725.195	56.273	54.864	42.0	0.17 0.81	0.50 200.00	375 2
12.615	N 75897.793	54.755	54.854	0.019			
12.615	E 33723.179	56.224	54.692	0.120			
	N 75885.340	53.833	54.504	2.391			

254

[illegible]

300

STD TYPE A GULLY G1/301	
LIL; 2.4m LINTEL; TYPE S	
STD MANHOLE	1/300
1050mm DIA	

[illegible]

301

STD TYPE A GULLY G1/302	
LIL; 2.4m LINTEL; TYPE S	
STD MANHOLE	2/300
1050mm DIA	

[illegible]

302

STD TYPE A GULLY	G1/303
LIL, 2.4m LINTEL; TYPE S	
STD MANHOLE	2/300
1050mm DIA	

[illegible]

303

STD TYPE A GULLY	G1/304
LIL: 2.4m LINTEL; TYPE S	
STD MANHOLE	3/300
1050mm DIA	

[illegible]

304

STD TYPE A GULLY	G1/305
LIL: 2.4m LINTEL; TYPE S	
STD MANHOLE	3/300

[illegible]

305

[illegible]

DRAWN	STATUS	
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	
DESIGN	APPROVED	DATE
PM	DANIEL COLLINS RPEQ 18631	12.09.24
		
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD		



SCALE

1:1000 10 0 10 20 30 40 50 A1
1:2000 A3

HORIZONTAL

1:100 2 1 0 2 4 A1
1:200 A3

VERTICAL

CLIENT	
PEET FLAGSTONE CITY PTY. LTD.	
ASSOCIATED CONSULTANT	VERIS (07) 3666 4700

PROJECT NAME

NEW BEITH ROAD - FLAGSTONE

HOMESTEAD DRIVE
FLAGSTONE

DRAWING TITLE		
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 19 OF 33		
PROJECT No.	DRAWING No.	REVISION
22-0145	P208	A

STRUCTURE NAME	STRUCTURE DESCRIPTION	STD TYPE A GULLY L1.; 2.4m LINTEL; TYPE S	G1/306	STD MANHOLE 4/300
----------------	-----------------------	--	--------	----------------------

**STORMWATER
STRUCTURE NOTE:**
STANDARD ROUND MANHOLES LESS
THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE
LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m >
5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR
STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER
THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX)
MANHOLES:
CONSTRUCT IN ACCORDANCE WITH
COLLIERS STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)		375
PIPE CLASS		2
PIPE GRADE (%)		0.50%
PIPE SLOPE (1 in X)		199.99
FULL PIPE VELOCITY (m/s)		0.26
PART FULL VELOCITY (m/s)		0.91
DATUM RL		44.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	57.094	57.071 57.070 57.104
PIPE FLOW (Cumecs)		0.028
PIPE CAPACITY AT GRADE (Cumecs)		0.124
DEPTH TO INVERT		1.647 1.535
INVERT LEVEL OF DRAIN		56.699 56.685
DESIGN SURFACE LEVEL	58.346	58.220 58.220
SETOUT COORDINATES	E 33651.953 N 75585.681	E 33653.785 E 33653.785
RUNNING CHAINAGE	0.000	2.663 2.663

LINE 306

STD TYPE A GULLY	G1/307
LIL: 2.4m LINTEL: TYPE S	
STD MANHOLE	4/300

0.000	E 33670.941	58.471	57.090				
17.194	N 75562.608		57.071	44.0	0.67%	375	
		56.840	1.631		150.01	2	
17.194	E 33653.785	58.220	57.070	0.025	0.23	0.97	
		56.725	57.104	0.143			

307

STD TYPE A GULLY	G1/308
LIL: 2.4m LINTEL: TYPE S	
STD MANHOLE	5/300

0.000	E 33845.561	57.082	55.438	1.644	0.124	0.028	55.747	43.0	0.26 0.91	0.50% 199.99	375 2
2.663	N 75526.195		55.974	1.550			55.746 55.770				
2.663	E 33847.394	56.974	55.425								

308

STD TYPE A GULLY	G1/309
LIL; 2.4m LINTEL; TYPE S	
STD MANHOLE	5/300

A diagram showing a rectangular frame with a dashed line and a blue line. The frame is composed of two vertical lines and two horizontal lines. A dashed line is drawn below the frame, and a blue line is drawn across the middle of the frame.

0.000	E 33664 549	57 207	55 765	42.0	0.23 0.92	0.57% 175.00	375 2
17.194	N 75523 122		55 747	0.025			
17.194	E 33647 394		55 746 55 770	0.133			
			1 630				
			55 577				
			56 974				
			55 478				
			1 496				

309

STD TYPE A GULLY	G1/310
LIL; 2.4m LINTEL; TYPE S	
STD MANHOLE	6/300

Technical drawing of a door handle assembly (Zuggriff). The drawing shows a side view of the handle mechanism. Key components and dimensions include:

- Handle (Zuggriff):** The main part of the handle, shown in a side view.
- Spindle (Zugbolzen):** The central bolt that connects the handle to the mounting plate.
- Mounting Plate (Zuggriffplatte):** The plate that is mounted to the door.
- Dimensions:**
 - 100 ± 0.5 : The distance from the center of the spindle to the edge of the mounting plate.
 - 100 ± 0.5 : The distance from the center of the spindle to the edge of the handle.
 - 100 ± 0.5 : The distance from the center of the spindle to the edge of the mounting plate.
 - 100 ± 0.5 : The distance from the center of the spindle to the edge of the handle.

	0.000	E 33641.088	56.675	55.460	42.0	0.18 0.82	0.50% 199.99	375 2
		N 75498.555	55.036	1.639	0.020			
	2.663	E 33642.920	56.595	1.572	0.124			
	2.663	E 33642.920	55.022	1.572				

310

STD TYPE A GULLY (SAG)	G1/311
LIL; 2.4m LINTEL; TYPE S	
STD MANHOLE	7/300

[illegible]

311

STD TYPE A GULLY G1/312	
LIL; 2.4m LINTEL; TYPE S	
STD TYPE A GULLY (SAG)	8/300

[illegible]

312

STD TYPE A GULLY	G1/313	
LIL; 2.4m LINTEL; TYPE S		
STD MANHOLE	1/313	
1050mm DIA		
STD MANHOLE	2/313	
1050mm DIA		
STD MANHOLE	3/313	
1050mm DIA		
STD MANHOLE	4/313	
1050mm DIA		
STD MANHOLE	5/313	
1050mm DIA		
STD MANHOLE	6/313	
1050mm DIA		
STD MANHOLE	7/313	
1050mm DIA		
STD TYPE A GULLY (SAG)	8/300	

The diagram illustrates a cross-section of a roof structure. A dashed line represents the roof profile, which is sloped. A solid line represents the structural frame, which is also sloped. Vertical lines represent structural members, and a horizontal line represents the ground level. The diagram shows the relationship between the roof profile, the structural frame, and the ground level.

[illegible]

313

[illegible]

DRAWN	STATUS	
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	
DESIGN	APPROVED	DATE
PM	DANIEL COLLINS 	RPEQ 18631 12.09.24
FOR AND ON BEHALF OF COLLIERIES INTERNATIONAL ENGINEERING & DESIGN PTY LTD		



SCALE	
1:1000	10 0 10 20 30 40 50 A1
1:2000	 A3
	HORIZONTAL
1:100	2 1 0 2 4 A1
1:200	 A3
	VERTICAL

CLIENT

PEET FLAGSTONE CITY PTY. LTD.

ASSOCIATED CONSULTANT

VERIS
(07) 3666 4700

PROJECT NAME	NEW BEITH ROAD - FLAGSTONE
	HOMESTEAD DRIVE FLAGSTONE

DRAWING TITLE		
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 20 OF 33		
PROJECT No.	DRAWING No.	REVISION
22-0145	P209	A

STRUCTURE NAME	STD TYPE A GULLY	1/313
STRUCTURE DESCRIPTION	L1; 2.4m LINTEL; TYPE S	STD MANHOLE

**STORMWATER
STRUCTURE NOTE:**

STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.

STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.

STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

ROUND EXTENDED (900mm MAX) MANHOLES:
CONSTRUCT IN ACCORDANCE WITH COLLIERIES STD DRAWINGS S-101 & S-102.

NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)		375	
PIPE CLASS		2	
PIPE GRADE (%)		0.50%	
PIPE SLOPE (1 in X)		200.00	
FULL PIPE VELOCITY (m/s)		0.18	
PART FULL VELOCITY (m/s)		0.82	
DATUM RL		50.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	60.766	60.755	60.754 60.755
PIPE FLOW (Cumecs)		0.019	
PIPE CAPACITY AT GRADE (Cumecs)		0.124	
DEPTH TO INVERT		1.641	1.572
INVERT LEVEL OF DRAIN		60.647	60.634
DESIGN SURFACE LEVEL	62.288		62.206
SETOUT COORDINATES	E 33655.774 N 75264.773		E 33653.355 N 75264.773
RUNNING CHAINAGE	0.000	2.644	2.644

LINE 314

[illegible]

315

[illegible]

316

[illegible]

317

[illegible]

318

[illegible]

319

ELEVATION		STATION		DISTANCE		SLOPE		CROSS SECTION		NOTES	
0.000	E 33845.445	59.610		57.961	1.649	0.032	0.124	58.484	58.455	58.454	58.495
2.662	N 75376.210							46.0	0.50%	0.29	375
2.662	E 33643.368	59.473		57.947	1.525			199.99	2		
STD TYPE A GULLY G1/320 LIL: 2.4m LINTEL: TYPE S STD MANHOLE 4/313											

320

[illegible]

321

[illegible]

322

[illegible]

323

[illegible]

324

0.000		E 33645.171	56.739	55.233	1.507	0.015	0.172	55.460	41.0	0.13 0.95	0.96% 104.12	375 2		LIL: 2.4m LINTEL, TYPE S	STD TYPE A GULLY G1/325
9.570		N 75475.686		55.453			55.453								
							55.454 55.484								
9.570		E 33654.740	56.638	55.141	1.497										
		N 75475.773	54.898	55.308	1.740										
													STD MANHOLE	7/313	1050mm DIA

325

[illegible]

DRAWN	STATUS	
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	
DESIGN	APPROVED	DATE
PM	DANIEL COLLINS 	RPEQ 18631 12.09.24
FOR AND ON BEHALF OF COLLIERIES INTERNATIONAL ENGINEERING & DESIGN PTY LTD		



SCALE

1:1000 10 0 10 20 30 40 50 A1
1:2000 HORIZONTAL A3

1:100 2 1 0 2 4 A1
1:200 VERTICAL A3

CLIENT

PEET FLAGSTONE CITY PTY. LTD.

ASSOCIATED CONSULTANT

VERIS
(07) 3666 4700

PROJECT NAME

NEW BEITH ROAD - FLAGSTONE

HOMESTEAD DRIVE
FLAGSTONE

DRAWING TITLE		
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 21 OF 33		
PROJECT No.	DRAWING No.	REVISION
22-0145	P210	A

STRUCTURE NAME	STD TYPE A GULLY G1/326
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	7/313
	STD MANHOLE
	1050mm DIA

STORMWATER STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX) MANHOLES:
CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.20
PART FULL VELOCITY (m/s)	0.85
DATUM RL	42.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	55.469 55.454 55.454 55.484
PIPE FLOW (Cumecs)	0.023
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.638
INVERT LEVEL OF DRAIN	55.074 55.061 54.898
DESIGN SURFACE LEVEL	56.712
SETOUT COORDINATES	E 33656.574 N 75473.851 E 33654.740 N 75475.773
RUNNING CHAINAGE	0.000 2.657 2.657

LINE 326

0.000	E 3366.571	62.454	60.932	1.522	0.267	0.013	61.018
9.570	N 75215.892						46.0
9.570	E 3366.054	62.206	60.710	1.496			60.766
	N 75217.181		60.617	1.589			60.758
27.440					0.160	0.032	60.746
37.010	E 33675.066	61.889	60.387	1.502			60.538
	N 75191.263		60.310	1.579			60.545
27.440					0.197	0.068	60.501
64.450	E 33685.514	61.469	59.963	1.507			60.208
	N 75165.890		59.891	1.579			60.224
27.440					0.197	0.104	60.127
91.890	E 33697.366	61.049	59.543	1.507			59.957
	N 75141.141		59.470	1.579			59.982
27.440					0.197	0.139	59.834
119.330	E 33710.585	60.629	59.123	1.507			59.665
	N 75117.095		59.051	1.579			59.692
27.102					0.197	0.173	59.509
146.432	E 33724.943	60.214	58.708	1.507			59.245
	N 75094.109		58.609	1.605			59.266
27.778					0.347	0.207	59.140
174.210	E 33740.954	59.789	58.199	1.590			58.993
	N 75071.409		58.179	1.610			59.011
27.440					0.344	0.241	58.878
201.650	E 33758.008	59.369	57.780	1.589			58.682
	N 75049.913		57.751	1.619			58.698
27.440					0.336	0.275	58.550
229.090	E 33776.238	58.975	57.370	1.605			58.296
	N 75029.404		57.266	1.709			58.307
27.469					0.345	0.308	58.210
256.559	E 33795.605	58.794	57.089	1.705			58.069
	N 75009.924		56.972	1.822			58.075
9.000					0.595	0.340	58.035
265.559	E 33802.097	58.827	56.927	1.899			58.021
	N 75003.691		56.907	1.919			58.026
12.000					0.595	0.363	57.987
277.559	E 33810.753	58.908	56.847	2.061			57.965
	N 74895.380		56.827	2.081			57.967
16.340					0.595	0.378	57.944
293.899	E 33822.540	59.089	56.745	2.344			57.911
	N 74894.063		56.725	2.364			57.966
15.000					1.909	1.031	57.350
308.899	E 33832.929	58.187	56.285	1.902			56.677
							56.677

400

STD TYPE A GULLY G1/401	LIL: 2.4m LINTEL, TYPE S	1/400	1050mm DIA
-------------------------	--------------------------	-------	------------

401

STD TYPE A GULLY G1/402	LIL: 2.4m LINTEL, TYPE S	2/400	1050mm DIA
-------------------------	--------------------------	-------	------------

402

STD TYPE A GULLY G1/403	LIL: 2.4m LINTEL, TYPE S	2/400	1050mm DIA
-------------------------	--------------------------	-------	------------

403

STD TYPE A GULLY G1/404	LIL: 2.4m LINTEL, TYPE S	3/400	1050mm DIA
-------------------------	--------------------------	-------	------------

404

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	12.09.24	PM	DH	ORIGINAL ISSUE	DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	1:1000 1:2000 HORIZONTAL 1:100 1:200 VERTICAL	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 22 OF 33
					DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24		ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145 DRAWING No. P211 REVISION A
						FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD				

STRUCTURE NAME	STD TYPE A GULLY G1/405
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 3/400
	1050mm DIA

STORMWATER STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX) MANHOLES:
CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.20
PART FULL VELOCITY (m/s)	0.85
DATUM RL	47.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	60.222 60.208 60.208 60.224 60.127
PIPE FLOW (Cumecs)	0.022
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.642
INVERT LEVEL OF DRAIN	59.924 59.911 59.891
DESIGN SURFACE LEVEL	61.565
SETOUT COORDINATES	E 33686.797 N 75168.223 E 33685.514 N 75165.890
RUNNING CHAINAGE	0.000 2.662 2.662

LINE 405

STRUCTURE NAME	STD TYPE A GULLY G1/406
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 4/400
	1050mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.44%
PIPE SLOPE (1 in X)	41.00
FULL PIPE VELOCITY (m/s)	0.13
PART FULL VELOCITY (m/s)	1.32
DATUM RL	47.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	59.960 59.953 59.957 59.982 59.834
PIPE FLOW (Cumecs)	0.015
PIPE CAPACITY AT GRADE (Cumecs)	0.274
DEPTH TO INVERT	1.523
INVERT LEVEL OF DRAIN	59.787 59.554 59.470
DESIGN SURFACE LEVEL	61.310
SETOUT COORDINATES	E 33688.232 N 75138.285 E 33697.366 N 75141.141
RUNNING CHAINAGE	0.000 9.570 9.570

406

STRUCTURE NAME	STD TYPE A GULLY G1/407
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 4/400
	1050mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.20
PART FULL VELOCITY (m/s)	0.85
DATUM RL	47.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	59.971 59.957 59.957 59.982 59.834
PIPE FLOW (Cumecs)	0.022
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.642
INVERT LEVEL OF DRAIN	59.503 59.490 59.470
DESIGN SURFACE LEVEL	61.145
SETOUT COORDINATES	E 33698.516 N 75143.543 E 33697.366 N 75141.141
RUNNING CHAINAGE	0.000 2.662 2.662

407

STRUCTURE NAME	STD TYPE A GULLY G1/408
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 5/400
	1050mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.44%
PIPE SLOPE (1 in X)	40.99
FULL PIPE VELOCITY (m/s)	0.13
PART FULL VELOCITY (m/s)	1.32
DATUM RL	44.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	59.671 59.665 59.665 59.692 59.509
PIPE FLOW (Cumecs)	0.015
PIPE CAPACITY AT GRADE (Cumecs)	0.274
DEPTH TO INVERT	1.523
INVERT LEVEL OF DRAIN	59.367 59.134 59.051
DESIGN SURFACE LEVEL	60.890
SETOUT COORDINATES	E 33701.625 N 75113.732 E 33710.585 N 75117.095
RUNNING CHAINAGE	0.000 9.570 9.570

408

STRUCTURE NAME	STD TYPE A GULLY G1/409
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 5/400
	1050mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.20
PART FULL VELOCITY (m/s)	0.85
DATUM RL	44.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	59.679 59.665 59.665 59.692 59.509
PIPE FLOW (Cumecs)	0.022
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.641
INVERT LEVEL OF DRAIN	59.084 59.071 59.051
DESIGN SURFACE LEVEL	60.725
SETOUT COORDINATES	E 33711.599 N 75119.557 E 33710.585 N 75117.095
RUNNING CHAINAGE	0.000 2.662 2.662

409

STRUCTURE NAME	STD TYPE A GULLY G1/410
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 6/400
	1050mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.40%
PIPE SLOPE (1 in X)	41.64
FULL PIPE VELOCITY (m/s)	0.13
PART FULL VELOCITY (m/s)	1.32
DATUM RL	46.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	59.252 59.245 59.245 59.266 59.140
PIPE FLOW (Cumecs)	0.015
PIPE CAPACITY AT GRADE (Cumecs)	0.272
DEPTH TO INVERT	1.522
INVERT LEVEL OF DRAIN	58.947 58.718 58.609
DESIGN SURFACE LEVEL	60.470
SETOUT COORDINATES	E 33716.372 N 75089.968 E 33724.943 N 75094.109
RUNNING CHAINAGE	0.000 9.518 9.518

410

STRUCTURE NAME	STD TYPE A GULLY G1/411
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 6/400
	1050mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.20
PART FULL VELOCITY (m/s)	0.85
DATUM RL	46.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	59.259 59.246 59.245 59.266 59.140
PIPE FLOW (Cumecs)	0.022
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.639
INVERT LEVEL OF DRAIN	58.667 58.654 58.609
DESIGN SURFACE LEVEL	60.305
SETOUT COORDINATES	E 33726.004 N 75096.342 E 33724.943 N 75094.109
RUNNING CHAINAGE	0.000 2.473 2.473

411

STRUCTURE NAME	STD TYPE A GULLY G1/412
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD TYPE A GULLY G2/400
	LIL: 2.4m LINTEL, TYPE S

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.46%
PIPE SLOPE (1 in X)	40.70
FULL PIPE VELOCITY (m/s)	0.13
PART FULL VELOCITY (m/s)	1.33
DATUM RL	46.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	59.001 58.994 58.993 59.011 58.878
PIPE FLOW (Cumecs)	0.015
PIPE CAPACITY AT GRADE (Cumecs)	0.275
DEPTH TO INVERT	1.524
INVERT LEVEL OF DRAIN	58.526 58.291 58.179
DESIGN SURFACE LEVEL	60.050
SETOUT COORDINATES	E 33732.426 N 75067.066 E 33740.954 N 75071.409
RUNNING CHAINAGE	0.000 9.570 9.570

412

STRUCTURE NAME	STD TYPE A GULLY G1/413
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD TYPE A GULLY G2/400
	LIL: 2.4m LINTEL, TYPE S

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	200.00
FULL PIPE VELOCITY (m/s)	0.20
PART FULL VELOCITY (m/s)	0.85
DATUM RL	46.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	59.004 58.994 58.993 59.011 58.878
PIPE FLOW (Cumecs)	0.022
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.641
INVERT LEVEL OF DRAIN	58.244 58.230 58.179
DESIGN SURFACE LEVEL	59.885
SETOUT COORDINATES	E 33741.686 N 75073.969 E 33740.954 N 75071.409
RUNNING CHAINAGE	0.000 2.662 2.662

413

STRUCTURE NAME	STD TYPE A GULLY G1/414
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 7/400
	1050mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.44%
PIPE SLOPE (1 in X)	41.02
FULL PIPE VELOCITY (m/s)	0.13
PART FULL VELOCITY (m/s)	1.32
DATUM RL	46.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	58.689 58.682 58.682 58.698 58.550
PIPE FLOW (Cumecs)	0.015
PIPE CAPACITY AT GRADE (Cumecs)	0.274
DEPTH TO INVERT	1.523
INVERT LEVEL OF DRAIN	58.107 57.874 57.751
DESIGN SURFACE LEVEL	59.630
SETOUT COORDINATES	E 33749.737 N 75045.099 E 33758.008 N 75049.913
RUNNING CHAINAGE	0.000 9.570 9.570

414

STRUCTURE NAME	STD TYPE A GULLY G1/415
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 7/400
	1050mm DIA

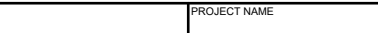
PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.20
PART FULL VELOCITY (m/s)	0.85
DATUM RL	46.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	58.690 58.682 58.682 58.698 58.550
PIPE FLOW (Cumecs)	0.022
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.641
INVERT LEVEL OF DRAIN	57.824 57.810 57.751
DESIGN SURFACE LEVEL	59.465
SETOUT COORDINATES	E 33758.596 N 75052.509 E 33776.008 N 75049.913
RUNNING CHAINAGE	0.000 2.662 2.662

415

STRUCTURE NAME	STD TYPE A GULLY G1/416
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 8/400
	1050mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.38%
PIPE SLOPE (1 in X)	41.98
FULL PIPE VELOCITY (m/s)	0.13
PART FULL VELOCITY (m/s)	1.31
DATUM RL	45.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	58.303 58.297 58.296 58.307 58.210
PIPE FLOW (Cumecs)	0.015
PIPE CAPACITY AT GRADE (Cumecs)	0.271
DEPTH TO INVERT	1.523
INVERT LEVEL OF DRAIN	57.706 57.478 57.266
DESIGN SURFACE LEVEL	59.229
SETOUT COORDINATES	E 33768.250 N 75024.135 E 33776.238 N 75023.404
RUNNING CHAINAGE	0.000 9.570 9.570

416

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE		CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		1:1000 1:2000		10 0 10 20 30 40 50 HORIZONTAL A1 A3	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 23 OF 33	
						DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24 		1:100 1:200	2 1 0 2 4 VERTICAL A1 A3	ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P212	REVISION A
								FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD							

STRUCTURE NAME	G1/417	8/400
STRUCTURE DESCRIPTION	STD TYPE A GULLY LIL; 2.4m L INLET; TYPE S	STD MANHOLE

STORMWATER
STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS
THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE
LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m >
5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR
STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER
THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX)
MANHOLES:
CONSTRUCT IN ACCORDANCE WITH
COLLIERS STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURES (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED
(CERTIFIED) AND CONSTRUCTED BY
CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)		375
PIPE CLASS		2
PIPE GRADE (%)		0.50%
PIPE SLOPE (1 in X)		199.99
FULL PIPE VELOCITY (m/s)		0.20
PART FULL VELOCITY (m/s)		0.85
DATUM RL		45.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	58.305 58.296	58.296 58.307
PIPE FLOW (Cumecs)		0.022
PIPE CAPACITY AT GRADE (Cumecs)		0.124
DEPTH TO INVERT		1.641 1.565
INVERT LEVEL OF DRAIN		57.424 57.411
DESIGN SURFACE LEVEL	59.065	58.975
SETOUT COORDINATES	E 33776.680 N 75032.030	E 33776.238 N 75032.030
RUNNING CHAINAGE	0.000	2.662 2.662

LINE 417

0.000	E 33787-908	59.022		57.498	1.525	0.015	58.076																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
-------	-------------	--------	--	--------	-------	-------	--------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

418

[illegible]

419

[illegible]

420

[illegible]

421

Station	Profile	Grade	Offset	Width	Depth	Notes
0.000	E 33811.221	56.969	57.973	0.017	0.124	
2.530	N 74997.866	57.335	57.965	0.017	0.124	
2.530	E 33810.753	57.322	57.965	0.017	0.124	
2.530	F 33810.753	57.322	57.967	0.017	0.124	

422

	0.000	E 33797 889 N 74983 992	59.166	57.925	57.914	44.0	0.18 0.82	0.50% 200.00	375 2	STD TYPE A GULLY G1/423	LIL; 2.4m LINTEL; TYPE S
	24.641	F 33892 540	59.089	57.400	57.911 57.996	0.020	0.124				STD MANHOLE F12/400

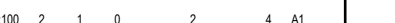
423

Station	Profile	Grade	Width	Depth	Area	Volume	Notes
0.000	E 33831.418	59.314					STD TYPE A GULLY G1/424
10.491	N 74978.474		57.647	1.667	0.017		LL: 2.4m LINTEL, TYPE S
10.491	E 33822.540	59.089	57.495	1.594	0.211		STD MANHOLE 12/400

424

0.000	E 34115.323	66.448	64.911	STD TYPE A GULLY G1/425	
	N 74595.285	64.819	64.904	LL: 2.4m LINTEL; TYPE S	
18.185			64.687		
18.185	E 34097.574	66.073	64.688	STD TYPE A GULLY G2/425	
	N 74591.327	64.575	64.678	LL: 2.4m LINTEL; TYPE S	
6.438			64.501		
24.624	E 34091.139	65.910	64.497	1/425	
	N 74591.546	64.314	64.473	STD MANHOLE 1050mm DIA	
27.720			64.410		
52.344	E 34084.295	66.706	64.421	2/425	
	N 74518.407	64.120	64.341	STD MANHOLE 1050mm DIA	
27.720			64.197		
80.064	E 34075.968	65.373	64.225	3/425	
	N 74644.844	63.792	64.063	STD MANHOLE 1050mm DIA	
27.720			63.863		
107.784	E 34066.154	64.955	63.898	4/425	
	N 74670.772	63.376	63.681	STD MANHOLE 1050mm DIA	
27.720			63.370		
135.504	E 34054.914	64.535	63.393	5/425	
	N 74696.111	62.930	63.255	STD MANHOLE 1050mm DIA	
27.720			63.056		
163.224	E 34042.274	64.115	63.084	6/425	
	N 74720.781	62.506	62.913	STD MANHOLE 1050mm DIA	
27.720			62.716		
190.944	E 34028.272	63.695	62.749	7/425	
	N 74744.705	62.086	62.543	STD MANHOLE 1050mm DIA	
27.720			62.261		
218.664	E 34012.952	63.274	62.298	8/425	
				STD MANHOLE 1050mm DIA	

425

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE		CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			1:1000 10 0 10 20 30 40 50 A1 1:2000 HORIZONTAL A3		PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 24 OF 33		
										1:100 2 1 0 2 A1 1:200 VERTICAL A3						
						DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 12.09.24					ASSOCIATED CONSULTANT	HOMESTEAD DRIVE FLAGSTONE	PROJECT No.	DRAWING No.	REVISION
						PM	 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD					VERIS (07) 3666 4700		22-0145	P213	A

STRUCTURE NAME	8/4/25	9/4/25	10/4/25	11/4/25	12/4/25	13/4/25	14/4/25	15/4/25	16/4/25	17/4/25	18/4/25	12/4/00	
STRUCTURE DESCRIPTION	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	STD MANHOLE 1050mm DIA	
STORMWATER STRUCTURE NOTE: STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP: CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS. STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP: CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308. STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP: SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS. ROUND EXTENDED (900mm MAX) MANHOLES: CONSTRUCT IN ACCORDANCE WITH COLLIERS STD DRAWINGS S-101 & S-102. NON-STANDARD STRUCTURE (SPECIAL): SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.													
	PIPE SIZE (mm)	450 2	525 2	525 2	525 2	525 2	525 2	600 2	600 2	600 2	600 2	750 2	
	PIPE CLASS												
	PIPE GRADE (%)	1.44% 69.27	1.46% 68.60	1.44% 69.27	1.43% 70.03	1.42% 70.52	1.43% 70.00	1.44% 69.26	1.43% 70.00	1.43% 70.00	1.34% 74.37	0.50% 200.00	
	PIPE SLOPE (1 in X)												
	FULL PIPE VELOCITY (m/s)	2.04 2.45	1.66 2.59	1.82 2.63	1.97 2.66	2.12 2.68	2.27 2.70	1.85 2.83	1.96 2.85	2.07 2.88	2.17 2.83	1.42 1.98	
	PART FULL VELOCITY (m/s)												
	DATUM RL	48.0											
	H.G.L IN PIPE & W.S.E IN STRUCTURE	62.261 62.298	61.708 61.732	61.319 61.345	60.924 60.951	60.540 60.561	60.104 60.126	59.567 59.581	59.296 59.311	58.969 58.985	58.609 58.625	58.213 58.239	57.911 57.986
	PIPE FLOW (Cumecs)	0.324	0.360	0.394	0.427	0.460	0.491	0.522	0.553	0.584	0.615	0.629	
PIPE CAPACITY AT GRADE (Cumecs)	0.343	0.519	0.517	0.514	0.512	0.514	0.738	0.734	0.734	0.712	0.788		
DEPTH TO INVERT	1.589 1.609	1.569 1.679	1.663 1.683	1.663 1.683	1.661 1.681	1.658 1.678	1.658 1.752	1.736 1.756	1.736 1.756	1.736 1.769	1.758 1.894	1.963 2.364	
INVERT LEVEL OF DRAIN	61.686 61.666	61.265 61.176	60.771 60.751	60.351 60.331	59.933 59.913	59.516 59.496	59.096 59.002	58.598 58.578	58.178 58.158	57.758 57.726	57.349 57.213	57.126 56.725	
DESIGN SURFACE LEVEL	63.274	62.854	62.434	62.014	61.594	61.174	60.754	60.334	59.914	59.494	59.107	59.089	
SETOUT COORDINATES	E 34012.952 N 74767.807	E 33996.364 N 74790.016	E 33978.559 N 74811.261	E 33959.584 N 74831.484	E 33939.579 N 74850.892	E 33919.384 N 74870.282	E 33899.187 N 74889.675	E 33878.990 N 74909.067	E 33858.792 N 74928.460	E 33838.595 N 74947.852	E 33818.398 N 74967.245	E 33822.540 N 74984.063	
RUNNING CHAINAGE	218.664 27.720	246.384 27.720	274.104 27.730	301.834 27.730	329.707 27.873	357.703 27.996	385.703 28.000	413.703 28.000	441.703 28.000	469.703 28.000	497.703 28.000	515.024 17.321	

LINE

[illegible]

426

[illegible]

427

[illegible]

428

0.000	E 34037.653	66.030	64.484	64.479	64.484	STD TYPE A GULLY G1/429
8.996	N 74647.962		64.398	1.632	0.013	LIL: 2.4m LINTEL: TYPE S
8.996	E 34088.664	65.717	64.220	1.497	0.246	
13.000	N 74647.591		64.195	1.522	0.025	STD TYPE A GULLY G2/429
21.996	E 34075.958	65.373	63.877	1.496	0.274	LIL: 2.4m LINTEL: TYPE S
	N 74644.844		63.792	1.581		STD MANHOLE 3/425
						1050mm DIA

429

[illegible]

430

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE		CLIENT	PROJECT NAME	DRAWING TITLE			
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			1:1000	10 0 10 20 30 40 50 A1	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 25 OF 33			
										1:2000	HORIZONTAL A3						
						DESIGN	APPROVED	DATE		1:100	2 1 0 2 A1						
						PM	DANIEL COLLINS	RPEQ 18631		12.09.24	1:200					VERTICAL A3	
											ASSOCIATED CONSULTANT	VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P214	REVISION A	
							FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD										

STRUCTURE NAME	STD TYPE A GULLY G1/431
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 4/425
	1050mm DIA

STORMWATER STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX) MANHOLES:
CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.47%
PIPE SLOPE (1 in X)	40.55
FULL PIPE VELOCITY (m/s)	0.17
PART FULL VELOCITY (m/s)	1.42
DATUM RL	48.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	63.891 63.881 63.863 63.898 63.681
PIPE FLOW (Cumecs)	0.019
PIPE CAPACITY AT GRADE (Cumecs)	0.275
DEPTH TO INVERT	1.522 1.496 1.579
INVERT LEVEL OF DRAIN	63.784 63.459 63.376
DESIGN SURFACE LEVEL	65.306 64.955 64.955
SETOUT COORDINATES	E 34078.871 N 74674.219 E 34066.154 N 74670.772
RUNNING CHAINAGE	0.000 13.176 13.176

LINE 431

STD TYPE A GULLY G1/432
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 4/425
1050mm DIA

375
2
0.50%
199.99
0.21
0.86
48.0
63.879 63.863 63.863 63.898 63.681
0.023
0.124
1.641 1.559 1.579
63.409 63.396 63.376
65.050 64.955 64.955
E 34064.804 N 74668.478 E 34066.154 N 74670.772
0.000 2.662 2.662

432

STD TYPE A GULLY G1/433
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 5/425
1050mm DIA

375
2
2.46%
40.60
0.17
1.42
49.0
63.465 63.455 63.370 63.393 63.255
0.019
0.275
1.522 1.496 1.605
63.358 63.039 62.930
64.880 64.535 64.535
E 34067.212 N 74700.184 E 34054.914 N 74696.111
0.000 12.955 12.955

433

STD TYPE A GULLY G1/434
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 5/425
1050mm DIA

375
2
0.50%
199.99
0.21
0.86
49.0
63.386 63.370 63.370 63.393 63.255
0.023
0.124
1.642 1.559 1.605
62.989 62.975 62.930
64.630 64.535 64.535
E 34053.694 N 74693.745 E 34054.914 N 74720.781
0.000 2.662 2.662

434

STD TYPE A GULLY G1/435
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 6/425
1050mm DIA

375
2
2.46%
40.61
0.17
1.42
49.0
63.043 63.033 63.056 63.084 62.913
0.019
0.275
1.522 1.496 1.609
62.930 62.619 62.506
64.452 64.115 64.115
E 34054.056 N 74725.371 E 34042.274 N 74720.781
0.000 12.645 12.645

435

STD TYPE A GULLY G1/436
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 6/425
1050mm DIA

375
2
0.50%
199.99
0.21
0.86
50.0
63.072 63.057 63.056 63.084 62.913
0.023
0.124
1.641 1.559 1.609
62.569 62.556 62.506
64.210 64.115 64.115
E 34041.188 N 74718.350 E 34042.274 N 74720.781
0.000 2.662 2.662

436

STD TYPE A GULLY G1/437
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 7/425
1050mm DIA

375
2
2.46%
40.64
0.17
1.42
49.0
62.725 62.714 62.716 62.749 62.543
0.019
0.275
1.522 1.496 1.609
62.500 62.199 62.086
64.022 63.695 63.695
E 34039.445 N 74749.730 E 34028.272 N 74744.705
0.000 12.251 12.251

437

STD TYPE A GULLY G1/438
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 7/425
1050mm DIA

375
2
0.50%
199.99
0.20
0.85
50.0
62.730 62.716 62.716 62.749 62.543
0.022
0.124
1.642 1.559 1.609
62.149 62.135 62.086
63.790 63.695 63.695
E 34027.324 N 74742.217 E 34028.272 N 74744.705
0.000 2.662 2.662

438

STD TYPE A GULLY G1/439
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 8/425
1050mm DIA

375
2
2.46%
40.66
0.17
1.42
50.0
62.268 62.258 62.261 62.298 62.059
0.019
0.275
1.522 1.496 1.609
62.068 61.779 61.666
63.590 63.274 63.274
E 34023.421 N 74773.163 E 34012.952 N 74767.807
0.000 11.759 11.759

439

STD TYPE A GULLY G1/440
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 8/425
1050mm DIA

375
2
0.50%
199.99
0.20
0.85
50.0
62.275 62.261 62.261 62.298 62.059
0.022
0.124
1.642 1.559 1.609
61.729 61.715 61.666
63.370 63.274 63.274
E 34012.146 N 74765.270 E 34012.952 N 74767.807
0.000 2.662 2.662

440

STD TYPE A GULLY G1/441
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 9/425
1050mm DIA

375
2
2.45%
40.75
0.17
1.42
50.0
61.740 61.730 61.708 61.732 61.582
0.019
0.275
1.523 1.496 1.679
61.632 61.358 61.176
63.155 62.854 62.854
E 34006.037 N 74795.585 E 33996.364 N 74790.016
0.000 11.162 11.162

441

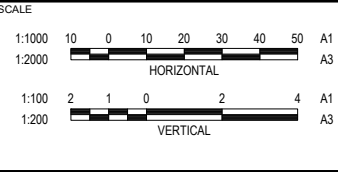
STD TYPE A GULLY G1/442
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 9/425
1050mm DIA

375
2
0.50%
199.99
0.19
0.84
50.0
61.722 61.709 61.708 61.732 61.582
0.021
0.124
1.641 1.559 1.679
61.309 61.295 61.176
62.950 62.854 62.854
E 33995.701 N 74787.438 E 33996.364 N 74790.016
0.000 2.662 2.662

442

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	12.09.24	PM	DH	ORIGINAL ISSUE

DRAWN	STATUS
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION
DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24
PM	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD



CLIENT
PEET FLAGSTONE CITY PTY. LTD.
ASSOCIATED CONSULTANT
VERIS (07) 3666 4700

PROJECT NAME
NEW BEITH ROAD - FLAGSTONE
HOMESTEAD DRIVE FLAGSTONE

DRAWING TITLE
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 26 OF 33
PROJECT No. 22-0145
DRAWING No. P215
REVISION A

STRUCTURE NAME	STD TYPE A GULLY G1/443
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 10/425
	1050mm DIA

STORMWATER STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX) MANHOLES:
CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.45%
PIPE SLOPE (1 in X)	40.83
FULL PIPE VELOCITY (m/s)	0.17
PART FULL VELOCITY (m/s)	0.83
DATUM RL	50.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	61.303 61.293 61.319 61.345 61.175
PIPE FLOW (Cumecs)	0.019
PIPE CAPACITY AT GRADE (Cumecs)	0.274
DEPTH TO INVERT	1.523 1.496 1.683
INVERT LEVEL OF DRAIN	61.196 60.939 60.751
DESIGN SURFACE LEVEL	62.719 62.434 62.434
SETOUT COORDINATES	E 33987.418 N 74916.915 E 33978.559 N 74811.261
RUNNING CHAINAGE	0.000 10.510 10.510

LINE 443

STD TYPE A GULLY G1/444
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 10/425
1050mm DIA

61.331 61.319 61.319 61.345 61.175
50.0
60.888 60.875 60.751
62.530 62.434 62.434
E 33978.040 N 74908.650 E 33978.559 N 74811.261
0.000 2.662 2.662

444

STD TYPE A GULLY G1/445
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 11/425
1050mm DIA

60.929 60.919 60.924 60.951 60.770
50.0
60.757 60.518 60.331
62.279 62.014 62.014
E 33967.574 N 74837.069 E 33959.584 N 74831.484
0.000 9.760 9.760

445

STD TYPE A GULLY G1/446
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 11/425
1050mm DIA

60.936 60.924 60.924 60.951 60.770
50.0
60.468 60.455 60.331
62.110 62.014 62.014
E 33959.213 N 74828.847 E 33959.584 N 74831.484
0.000 2.662 2.662

446

STD TYPE A GULLY G1/447
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 12/425
1050mm DIA

60.548 60.538 60.540 60.561 60.405
50.0
60.332 60.098 59.913
61.854 61.594 61.594
E 33947.277 N 74856.578 E 33939.579 N 74850.892
0.000 9.570 9.570

447

STD TYPE A GULLY G1/448
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 12/425
1050mm DIA

60.551 60.540 60.540 60.561 60.405
50.0
60.048 60.035 59.913
61.690 61.594 61.594
E 33939.277 N 74846.246 E 33939.579 N 74850.892
0.000 2.663 2.663

448

STD TYPE A GULLY G1/449
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 13/425
1050mm DIA

60.114 60.105 60.104 60.126 59.960
49.0
59.815 59.678 59.496
61.445 61.174 61.174
E 33932.405 N 74881.511 E 33919.384 N 74870.282
0.000 17.194 17.194

449

STD TYPE A GULLY G1/450
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 13/425
1050mm DIA

60.116 60.105 60.104 60.126 59.960
49.0
59.628 59.615 59.496
61.270 61.174 61.174
E 33919.083 N 74867.636 E 33919.384 N 74870.282
0.000 2.663 2.663

450

STD TYPE A GULLY G1/451
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 14/425
1050mm DIA

59.577 59.568 59.567 59.581 59.475
48.0
59.345 59.258 59.002
60.975 60.754 60.754
E 33912.207 N 74900.904 E 33899.187 N 74889.675
0.000 17.194 17.194

451

STD TYPE A GULLY G1/452
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 14/425
1050mm DIA

59.579 59.568 59.567 59.581 59.475
48.0
59.208 59.195 59.002
60.850 60.754 60.754
E 33898.885 N 74887.029 E 33899.187 N 74889.675
0.000 2.663 2.663

452

STD TYPE A GULLY G1/453
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 15/425
1050mm DIA

59.307 59.298 59.296 59.311 59.197
47.0
58.925 58.838 58.578
60.555 60.334 60.334
E 33892.010 N 74920.296 E 33878.990 N 74909.067
0.000 17.194 17.194

453

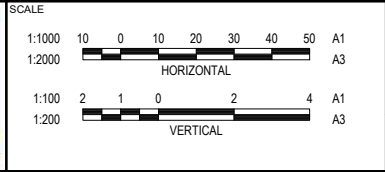
STD TYPE A GULLY G1/454
LIL: 2.4m LINTEL, TYPE S
STD MANHOLE 15/425
1050mm DIA

59.308 59.297 59.296 59.311 59.197
46.0
58.788 58.775 58.578
60.430 60.334 60.334
E 33878.688 N 74906.421 E 33878.990 N 74909.067
0.000 2.663 2.663

454

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	12.09.24	PM	DH	ORIGINAL ISSUE

DRAWN	STATUS
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION
DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24
PM	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD



CLIENT
PEET FLAGSTONE CITY PTY. LTD.
ASSOCIATED CONSULTANT
VERIS (07) 3666 4700

PROJECT NAME
NEW BEITH ROAD - FLAGSTONE
HOMESTEAD DRIVE FLAGSTONE

DRAWING TITLE
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 27 OF 33
PROJECT No.
22-0145
DRAWING No.
P216
REVISION
A

STRUCTURE NAME	STD TYPE A GULLY G1/455
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 16/425
	1050mm DIA

STORMWATER STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX) MANHOLES:
CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	198.27
FULL PIPE VELOCITY (m/s)	0.16
PART FULL VELOCITY (m/s)	0.80
DATUM RL	46.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	58.980 58.971 58.969 58.965 58.862
PIPE FLOW (Cumecs)	0.017
PIPE CAPACITY AT GRADE (Cumecs)	0.125
DEPTH TO INVERT	1.630 1.496 1.756
INVERT LEVEL OF DRAIN	58.505 58.418 58.158
DESIGN SURFACE LEVEL	60.135 59.914 58.460
SETOUT COORDINATES	E 33871.813 N 74939.689 E 33858.792 N 74928.460
RUNNING CHAINAGE	0.000 17.194 17.194

LINE 455

STRUCTURE NAME	STD TYPE A GULLY G1/456
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 16/425
	1050mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.18
PART FULL VELOCITY (m/s)	0.82
DATUM RL	46.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	58.980 58.970 58.969 58.965 58.862
PIPE FLOW (Cumecs)	0.020
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.642 1.560 1.756
INVERT LEVEL OF DRAIN	58.368 58.355 58.158
DESIGN SURFACE LEVEL	60.010 59.914 58.460
SETOUT COORDINATES	E 33858.491 N 74925.814 E 33858.792 N 74928.460
RUNNING CHAINAGE	0.000 2.663 2.663

LINE 456

STRUCTURE NAME	STD TYPE A GULLY G1/457
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 17/425
	1050mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	198.27
FULL PIPE VELOCITY (m/s)	0.16
PART FULL VELOCITY (m/s)	0.80
DATUM RL	44.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	58.619 58.610 58.609 58.625 58.493
PIPE FLOW (Cumecs)	0.017
PIPE CAPACITY AT GRADE (Cumecs)	0.125
DEPTH TO INVERT	1.630 1.496 1.769
INVERT LEVEL OF DRAIN	58.085 57.998 57.726
DESIGN SURFACE LEVEL	59.715 59.494 58.460
SETOUT COORDINATES	E 33851.615 N 74959.081 E 33838.595 N 74947.852
RUNNING CHAINAGE	0.000 17.194 17.194

LINE 457

STRUCTURE NAME	STD TYPE A GULLY G1/458
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 17/425
	1050mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.18
PART FULL VELOCITY (m/s)	0.82
DATUM RL	44.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	58.618 58.609 58.609 58.625 58.493
PIPE FLOW (Cumecs)	0.020
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.642 1.560 1.769
INVERT LEVEL OF DRAIN	57.948 57.935 57.726
DESIGN SURFACE LEVEL	59.590 59.494 58.460
SETOUT COORDINATES	E 33838.293 N 74945.206 E 33838.595 N 74947.852
RUNNING CHAINAGE	0.000 2.663 2.663

LINE 458

STRUCTURE NAME	STD TYPE A GULLY G1/459
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S
	STD MANHOLE 18/425
	1050mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.18
PART FULL VELOCITY (m/s)	0.82
DATUM RL	45.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	58.222 58.213 58.213 58.239 57.966
PIPE FLOW (Cumecs)	0.020
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.639 1.571 1.894
INVERT LEVEL OF DRAIN	57.550 57.536 57.213
DESIGN SURFACE LEVEL	59.189 59.107 57.245
SETOUT COORDINATES	E 33818.096 N 74964.599 E 33818.398 N 74967.245
RUNNING CHAINAGE	0.000 2.663 2.663

LINE 459

STRUCTURE NAME	STD MANHOLE 1/500
STRUCTURE DESCRIPTION	1050mm DIA
	STD MANHOLE 2/500
	1050mm DIA
	STD MANHOLE 3/500
	1050mm DIA
	STD MANHOLE 4/500
	1050mm DIA
	STD MANHOLE 5/500
	1050mm DIA
	STD MANHOLE 6/500
	1050mm DIA
	STD MANHOLE 7/500
	1050mm DIA
	STD MANHOLE 8/500
	1050mm DIA
	STD MANHOLE 9/500
	1050mm DIA
	STD MANHOLE 10/500
	1050mm DIA
	STD MANHOLE 11/500
	1050mm DIA
	STD MANHOLE 12/500
	1050mm DIA
	STD MANHOLE 13/500
	1050mm DIA
	STD MANHOLE 14/500
	1050mm DIA

PIPE SIZE (mm)	375	450	525	600	600	600	600	600	600	675	675	675	675	675	675
PIPE CLASS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PIPE GRADE (%)	6.73%	3.83%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.87%	2.42%	2.83%	3.50%	3.40%	3.46%	3.46%
PIPE SLOPE (1 in X)	14.85	26.10	200.00	200.00	200.00	200.00	200.00	200.00	114.44	41.36	35.36	28.61	29.41	28.88	28.88
FULL PIPE VELOCITY (m/s)	0.00	1.07	1.19	1.07	1.17	1.22	1.34	1.49	1.29	1.35	1.48	1.64	1.64	1.84	1.84
PART FULL VELOCITY (m/s)	0.00	3.08	1.58	1.66	1.69	1.70	1.73	2.22	3.34	3.57	3.96	4.03	4.03	4.18	4.18
DATUM RL	54.0											49.0			
H.G.L IN PIPE & W.S.E IN STRUCTURE	67.181 67.181 65.693 65.727 65.571		64.065 64.091 63.930	63.860 63.888 63.731	63.693 63.705 63.627	63.603 63.610 63.560	63.529 63.546 63.441	63.383 63.404 63.273	63.065 63.078 62.993	62.448 62.459 62.385	61.754 61.769 61.665	60.761 60.789 60.616	59.091 59.129 58.898		
PIPE FLOW (Cumecs)	0.000	0.170	0.257	0.303	0.331	0.344	0.379	0.422	0.462	0.482	0.529	0.586	0.657		
PIPE CAPACITY AT GRADE (Cumecs)	0.455	0.558	0.304	0.434	0.434	0.434	0.434	0.574	1.308	1.414	1.572	1.551	1.565		
DEPTH TO INVERT	1.497	1.611	1.680	1.547	1.680	2.517	2.537	2.426	2.446	2.220	2.240	1.978	1.998	1.732	1.835
INVERT LEVEL OF DRAIN	67.181	65.350	65.281	63.556	63.423	63.318	63.298	63.167	63.147	62.988	62.968	62.866	62.846	61.973	61.944
DESIGN SURFACE LEVEL		66.961		65.103		65.834		65.593		65.207		64.844		63.782	
SETOUT COORDINATES	E 34008.651 N 74528.441	E 34035.770 N 74526.469		E 34080.685 N 74523.210		E 34101.646 N 74521.688		E 34103.066 N 74495.570		E 34103.231 N 74482.765		E 34101.974 N 74447.544		E 34096.707 N 74402.706	
RUNNING CHAINAGE	0.000 27.190 27.190	45.033	72.224	21.016	93.239	26.157	119.396	12.806	132.202	15.026	147.228	20.223	167.451	20.824	188.275

LINE 500

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE 1:1000 1:2000 100 0 10 20 30 40 50 A1 A3 HORIZONTAL 1:100 1:200 2 1 0 2 4 A1 A3 VERTICAL	CLIENT	PROJECT NAME	DRAWING TITLE		
	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION				PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 28 OF 33	
						DESIGN	APPROVED DANIEL COLLINS RPEQ 18631  DATE 12.09.24 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD		ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145	DRAWING No. P217	REVISION A	

STRUCTURE NAME	14/500		15/500		16/500		17/500		18/500		19/500		20/500		21/500		22/500		23/500		24/500		OUTLET 1/500	
STRUCTURE DESCRIPTION	STD MANHOLE 1050mm DIA		STD MANHOLE 1050mm DIA		STD MANHOLE 1050mm DIA		STD MANHOLE 1050mm DIA		STD MANHOLE 1050mm DIA		STD MANHOLE 1050mm DIA		STD MANHOLE 1050mm DIA		STD MANHOLE 1050mm DIA		STD MANHOLE 1050mm DIA		STD MANHOLE 1050mm DIA		STD TYPE A GULLY (SAG) LL: 2.4m LINTEL, TYPE S		OUTLET 1/500	
STORMWATER STRUCTURE NOTE: STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP: CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS. STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP: CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308. STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP: SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS. ROUND EXTENDED (900mm MAX) MANHOLES: CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102. NON-STANDARD STRUCTURE (SPECIAL): SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.																								
PIPE SIZE (mm)	675 2		675 2		675 2		675 2		675 2		675 2		675 2		675 2		900 2		900 2		900 2		1050 2	
PIPE CLASS																								
PIPE GRADE (%)	3.46%		3.46%		3.45%		3.43%		3.43%		3.43%		2.95%		1.32%		0.50%		0.50%		0.75%			
PIPE SLOPE (1 in X)	28.88		28.88		28.94		29.18		29.18		29.18		33.85		75.97		200.00		200.00		133.33			
FULL PIPE VELOCITY (m/s)	2.05		2.26		2.45		2.67		2.81		2.95		3.08		1.81		1.82		1.89		1.49			
PART FULL VELOCITY (m/s)	4.30		4.41		4.49		4.57		4.62		4.67		4.45		3.35		2.28		2.29		2.79			
DATUM RL	43.0						35.0						30.0											
H.G.L IN PIPE & W.S.E IN STRUCTURE	57.376 57.418	57.158			55.652 55.698	55.408			53.914 53.962	53.651			52.175 52.218	51.920			50.390 50.421	50.179			48.652 48.682	48.438		
PIPE FLOW (Cumecs)	0.733		0.809		0.876		0.955		1.005		1.054		1.103		1.150		1.161		1.205		1.289			
PIPE CAPACITY AT GRADE (Cumecs)	1.565		1.565		1.563		1.557		1.557		1.557		1.445		2.078		1.281		1.281		2.366			
DEPTH TO INVERT	1.820	1.857	1.821		1.858		1.821		1.841		1.805		1.841		1.922		2.112		2.098		2.365		2.500	
INVERT LEVEL OF DRAIN	56.652	56.615	54.878		54.840		53.103		53.065		51.336		51.316		49.602		49.566		47.852		47.815			
DESIGN SURFACE LEVEL	58.472		56.698				54.924				53.157				51.407				49.657		49.657			
SETOUT COORDINATES	E 34048.043 N 74255.679		E 34022.796 N 74212.328		E 33993.284 N 74171.749		E 33960.010 N 74134.365		E 33925.657 N 74098.014		E 33891.314 N 74061.673		E 33856.974 N 74025.332		E 33822.653 N 73989.009		E 33805.479 N 73970.835		E 33802.819 N 73951.200		E 33806.866 N 73947.376		E 33820.129 N 73930.642	
RUNNING CHAINAGE	368.069	50.168	418.236	50.176	468.412	50.046	518.459	50.016	568.475	50.001	618.476	49.999	668.475	49.973	718.448	25.005	743.452	19.814	763.267	5.568	768.834	18.249	787.083	
LINE	500																							

STD TYPE A GULLY G1/510		LL: 2.4m LINTEL, TYPE S		STD MANHOLE 2/500		1050mm DIA	
0.000	E 34036.144	66.956		65.327	1.629	65.960	65.710
5.167	N 74531.623			65.693	1.660	65.693	65.727
5.167	E 34035.770	66.961		65.301	1.680	65.693	65.727
	N 74526.469			65.281		65.571	
510							

STD TYPE A GULLY G1/511		LL: 2.4m LINTEL, TYPE S		STD MANHOLE 2/500		1050mm DIA	
0.000	E 34034.577	67.161		65.632	1.629	65.897	65.739
16.465	N 74510.047			65.693	1.512	65.693	65.727
16.465	E 34035.770	66.961		65.449	1.680	65.693	65.727
	N 74526.469			65.281		65.571	
511							

STD TYPE A GULLY G1/512		LL: 2.4m LINTEL, TYPE S		STD MANHOLE 3/500		1050mm DIA	
0.000	E 34079.493	65.098		63.468	1.629	64.163	64.072
5.167	N 74526.364			63.443	1.660	64.065	64.091
5.167	E 34080.685	65.103		63.423	1.680	64.065	64.091
	N 74523.210			63.423		63.930	
512							

STD TYPE A GULLY G1/513		LL: 2.4m LINTEL, TYPE S		STD MANHOLE 3/500		1050mm DIA	
0.000	E 34079.493	65.303		63.673	1.629	64.090	64.069
16.468	N 74526.786			63.591	1.511	64.065	64.091
16.468	E 34080.685	65.103		63.423	1.680	64.065	64.091
	N 74523.210			63.423		63.930	
513							

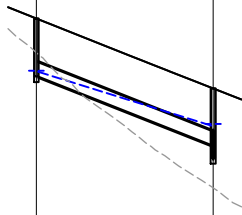
REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS				SCALE		CLIENT		PROJECT NAME		DRAWING TITLE		
	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION				1:1000 1:2000		PEET FLAGSTONE CITY PTY. LTD.		NEW BEITH ROAD - FLAGSTONE		STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 29 OF 33		
							PM	APPROVED DANIEL COLLINS	RPEQ 18631	DATE 12.09.24		1:100 1:200		ASSOCIATED CONSULTANT VERIS (07) 3666 4700		HOMESTEAD DRIVE FLAGSTONE		PROJECT No. 22-0145	DRAWING No. P218	REVISION A
							FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD													

STRUCTURE NAME	STD TYPE A GULLY G1/537
STRUCTURE DESCRIPTION	LIL: 2.4m LINTEL, TYPE S

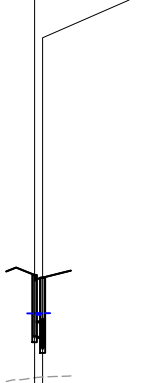
STORMWATER STRUCTURE NOTE:
STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP:
CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS.
STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP:
CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308.
STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP:
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.
ROUND EXTENDED (900mm MAX) MANHOLES:
CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102.
NON-STANDARD STRUCTURE (SPECIAL):
SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	3.87%
PIPE SLOPE (1 in X)	25.83
FULL PIPE VELOCITY (m/s)	0.28
PART FULL VELOCITY (m/s)	1.93
DATUM RL	40.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	53.626 53.599 52.175 52.218 51.920
PIPE FLOW (Cumecs)	0.031
PIPE CAPACITY AT GRADE (Cumecs)	0.345
DEPTH TO INVERT	1.534
INVERT LEVEL OF DRAIN	53.473
DESIGN SURFACE LEVEL	55.007
SETOUT COORDINATES	E 33998.088 N 74161.539 E 33960.010 N 74134.365
RUNNING CHAINAGE	0.000 46.779 46.779

LINE 537



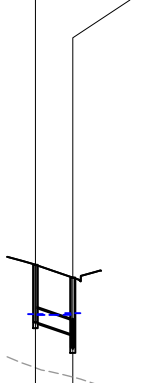
STD TYPE A GULLY G1/538
LIL: 2.4m LINTEL, TYPE S



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.98
FULL PIPE VELOCITY (m/s)	0.33
PART FULL VELOCITY (m/s)	0.97
DATUM RL	39.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	52.210 52.176 52.175 52.218 51.920
PIPE FLOW (Cumecs)	0.036
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.629
INVERT LEVEL OF DRAIN	51.600
DESIGN SURFACE LEVEL	53.229
SETOUT COORDINATES	E 33968.476 N 74135.825 E 33960.010 N 74134.365
RUNNING CHAINAGE	0.000 2.117 2.117

538

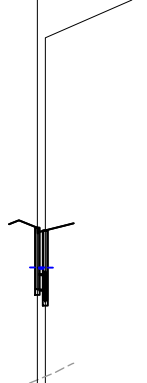
STD TYPE A GULLY G1/539
LIL: 2.4m LINTEL, TYPE S



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	3.08%
PIPE SLOPE (1 in X)	32.46
FULL PIPE VELOCITY (m/s)	0.25
PART FULL VELOCITY (m/s)	1.72
DATUM RL	39.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	52.191 52.170 52.175 52.218 51.920
PIPE FLOW (Cumecs)	0.027
PIPE CAPACITY AT GRADE (Cumecs)	0.308
DEPTH TO INVERT	1.526
INVERT LEVEL OF DRAIN	51.970
DESIGN SURFACE LEVEL	53.496
SETOUT COORDINATES	E 33968.874 N 74130.012 E 33960.010 N 74134.365
RUNNING CHAINAGE	0.000 9.875 9.875

539

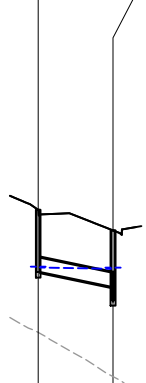
STD TYPE A GULLY G1/540
LIL: 2.4m LINTEL, TYPE S



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	200.00
FULL PIPE VELOCITY (m/s)	0.32
PART FULL VELOCITY (m/s)	0.97
DATUM RL	36.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	50.427 50.391 50.390 50.421 50.179
PIPE FLOW (Cumecs)	0.035
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.629
INVERT LEVEL OF DRAIN	49.849
DESIGN SURFACE LEVEL	51.478
SETOUT COORDINATES	E 33924.124 N 74099.472 E 33925.657 N 74098.014
RUNNING CHAINAGE	0.000 2.115 2.115

540

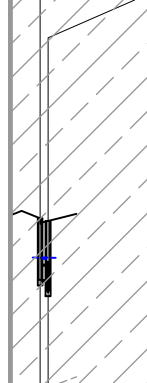
STD TYPE A GULLY G1/541
LIL: 2.4m LINTEL, TYPE S



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.97%
PIPE SLOPE (1 in X)	50.66
FULL PIPE VELOCITY (m/s)	0.24
PART FULL VELOCITY (m/s)	1.46
DATUM RL	36.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	50.446 50.425 50.390 50.421 50.179
PIPE FLOW (Cumecs)	0.027
PIPE CAPACITY AT GRADE (Cumecs)	0.246
DEPTH TO INVERT	1.643
INVERT LEVEL OF DRAIN	50.308
DESIGN SURFACE LEVEL	51.951
SETOUT COORDINATES	E 33944.927 N 74093.480 E 33925.657 N 74098.014
RUNNING CHAINAGE	0.000 19.796 19.796

541

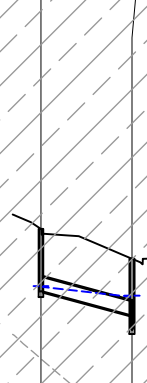
STD TYPE A GULLY G1/542
LIL: 2.4m LINTEL, TYPE S



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.32
PART FULL VELOCITY (m/s)	0.97
DATUM RL	34.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	48.688 48.653 48.652 48.682 48.438
PIPE FLOW (Cumecs)	0.035
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.629
INVERT LEVEL OF DRAIN	48.099
DESIGN SURFACE LEVEL	49.728
SETOUT COORDINATES	E 33989.763 N 74063.129 E 33991.314 N 74061.673
RUNNING CHAINAGE	0.000 2.114 2.114

542

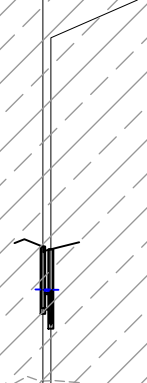
STD TYPE A GULLY G1/543
LIL: 2.4m LINTEL, TYPE S



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.59%
PIPE SLOPE (1 in X)	38.57
FULL PIPE VELOCITY (m/s)	0.24
PART FULL VELOCITY (m/s)	1.61
DATUM RL	35.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	48.932 48.911 48.652 48.682 48.438
PIPE FLOW (Cumecs)	0.027
PIPE CAPACITY AT GRADE (Cumecs)	0.282
DEPTH TO INVERT	1.653
INVERT LEVEL OF DRAIN	48.794
DESIGN SURFACE LEVEL	50.446
SETOUT COORDINATES	E 33915.364 N 74062.227 E 33991.314 N 74061.673
RUNNING CHAINAGE	0.000 24.086 24.086

543

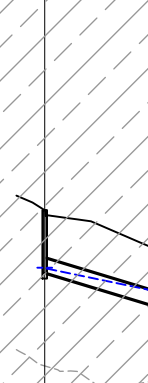
STD TYPE A GULLY G1/544
LIL: 2.4m LINTEL, TYPE S



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.32
PART FULL VELOCITY (m/s)	0.97
DATUM RL	33.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	46.844 46.807 46.806 46.836 46.586
PIPE FLOW (Cumecs)	0.035
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.629
INVERT LEVEL OF DRAIN	46.349
DESIGN SURFACE LEVEL	47.978
SETOUT COORDINATES	E 33965.442 N 74026.789 E 33956.974 N 74025.332
RUNNING CHAINAGE	0.000 2.114 2.114

544

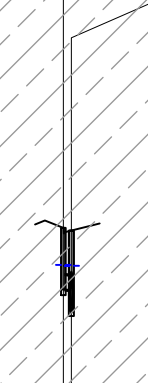
STD TYPE A GULLY G1/545
LIL: 2.4m LINTEL, TYPE S



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.93%
PIPE SLOPE (1 in X)	34.14
FULL PIPE VELOCITY (m/s)	0.24
PART FULL VELOCITY (m/s)	1.68
DATUM RL	33.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	47.420 47.399 46.806 46.836 46.586
PIPE FLOW (Cumecs)	0.027
PIPE CAPACITY AT GRADE (Cumecs)	0.300
DEPTH TO INVERT	1.660
INVERT LEVEL OF DRAIN	47.281
DESIGN SURFACE LEVEL	48.941
SETOUT COORDINATES	E 33965.861 N 74030.973 E 33956.974 N 74025.332
RUNNING CHAINAGE	0.000 29.432 29.432

545

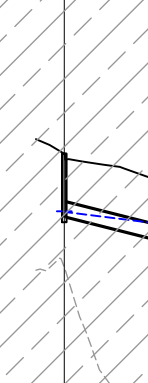
STD TYPE A GULLY G1/546
LIL: 2.4m LINTEL, TYPE S



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.32
PART FULL VELOCITY (m/s)	0.97
DATUM RL	31.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	45.495 45.463 45.463 45.471 45.416
PIPE FLOW (Cumecs)	0.035
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.629
INVERT LEVEL OF DRAIN	44.844
DESIGN SURFACE LEVEL	46.474
SETOUT COORDINATES	E 33921.120 N 73990.467 E 33922.653 N 73989.009
RUNNING CHAINAGE	0.000 2.115 2.115

546

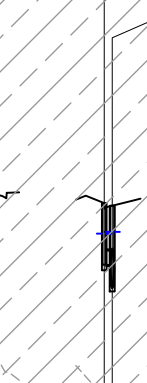
STD TYPE A GULLY G1/547
LIL: 2.4m LINTEL, TYPE S



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.45%
PIPE SLOPE (1 in X)	40.83
FULL PIPE VELOCITY (m/s)	0.24
PART FULL VELOCITY (m/s)	1.58
DATUM RL	30.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	45.911 45.890 45.463 45.471 45.416
PIPE FLOW (Cumecs)	0.027
PIPE CAPACITY AT GRADE (Cumecs)	0.275
DEPTH TO INVERT	1.664
INVERT LEVEL OF DRAIN	45.773
DESIGN SURFACE LEVEL	47.437
SETOUT COORDINATES	E 33966.327 N 73990.719 E 33922.653 N 73989.009
RUNNING CHAINAGE	0.000 35.337 35.337

547

STD TYPE A GULLY G1/548
LIL: 2.4m LINTEL, TYPE S

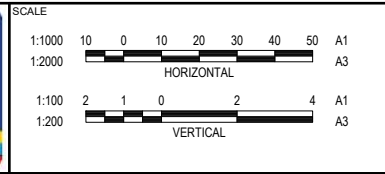


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	199.99
FULL PIPE VELOCITY (m/s)	0.16
PART FULL VELOCITY (m/s)	0.80
DATUM RL	30.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	45.321 45.315 45.315 45.368 44.990
PIPE FLOW (Cumecs)	0.018
PIPE CAPACITY AT GRADE (Cumecs)	0.124
DEPTH TO INVERT	1.629
INVERT LEVEL OF DRAIN	44.901
DESIGN SURFACE LEVEL	46.130
SETOUT COORDINATES	E 33903.946 N 73972.293 E 33905.479 N 73970.835
RUNNING CHAINAGE	0.000 2.115 2.115

548

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	12.09.24	PM	DH	ORIGINAL ISSUE

DRAWN	STATUS
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION
DESIGN	APPROVED
PM	DANIEL COLLINS RPEQ 18631 DATE 12.09.24
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	



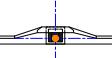
CLIENT
PEET FLAGSTONE CITY PTY. LTD.
ASSOCIATED CONSULTANT
VERIS (07) 3666 4700

PROJECT NAME
NEW BEITH ROAD - FLAGSTONE
HOMESTEAD DRIVE FLAGSTONE

DRAWING TITLE
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 32 OF 33
PROJECT No.
22-0145
DRAWING No.
P221
REVISION
A

STRUCTURE NAME	G1/549		23/500		1/550		2/550		23/500		G1/570		2/550		G1/571		24/500		G1/572		24/500	
STRUCTURE DESCRIPTION	STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL: TYPE S		STD MANHOLE 1050mm DIA		STD MANHOLE 1050mm DIA		STD MANHOLE 1050mm DIA		STD MANHOLE 1050mm DIA		STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S		STD MANHOLE 1050mm DIA		STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S		STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL: TYPE S		STD TYPE A GULLY LIL: 2.4m LINTEL: TYPE S		STD TYPE A GULLY (SAG) LIL: 2.4m LINTEL: TYPE S	
STORMWATER STRUCTURE NOTE: STANDARD ROUND MANHOLES LESS THAN 3.0m DEEP: CONSTRUCT IN ACCORDANCE WITH THE LOCAL AUTHORITY STANDARDS. STANDARD ROUND MANHOLES 3.0m > 5.3m DEEP: CONSTRUCT IN ACCORDANCE WITH TMR STD DRAWINGS 1307 AND 1308. STANDARD ROUND MANHOLES GREATER THAN 5.3m DEEP: SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS. ROUND EXTENDED (900mm MAX) MANHOLES: CONSTRUCT IN ACCORDANCE WITH COLLIER'S STD DRAWINGS S-101 & S-102. NON-STANDARD STRUCTURE (SPECIAL): SHALL BE STRUCTURALLY DESIGNED (CERTIFIED) AND CONSTRUCTED BY CONTRACTOR ON A CASE BY CASE BASIS.																						
PIPE SIZE (mm)	375		375		375		375		375		375		375		375		375		375		375	
PIPE CLASS	2		2		2		2		2		2		2		2		2		2		2	
PIPE GRADE (%)	0.50%		1.13%		0.50%		0.50%		0.67%		0.67%		0.32%		0.67%		0.68%		0.68%		0.68%	
PIPE SLOPE (1 in X)	200.00		88.42		200.00		200.00		148.88		148.88		1.08		148.88		148.14		148.14		148.14	
FULL PIPE VELOCITY (m/s)	0.20		0.00		0.32		0.32		1.08		1.08		0.32		1.08		1.00		1.00		1.00	
PART FULL VELOCITY (m/s)	0.85		0.00		0.97		0.97		1.08		1.08		0.97		1.08		1.00		1.00		1.00	
DATUM RL	29.0		30.0		30.0		30.0		31.0		31.0		31.0		31.0		29.0		29.0		29.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	44.925 44.911	44.909 44.964	44.928 44.928	44.928 44.930	44.917 44.917	44.909 44.964	44.909 44.964	44.909 44.964	44.966 44.928	44.928 44.930	44.917 44.917	45.002 44.966	44.966 44.966	44.763 44.357	44.282 44.282	44.969 44.947	44.947 44.947	44.744 44.357	44.744 44.357	44.744 44.357	44.744 44.357	44.744 44.357
PIPE FLOW (Cumecs)	0.022		0.000		0.035		0.035		0.035		0.035		0.035		0.035		0.027		0.027		0.027	
PIPE CAPACITY AT GRADE (Cumecs)	0.124		0.187		0.124		0.124		0.144		0.144		0.144		0.144		0.144		0.144		0.144	
DEPTH TO INVERT	1.629		1.837		2.385		1.532		1.586		1.629		1.566		1.586		1.562		1.564		1.557	
INVERT LEVEL OF DRAIN	44.438		44.369		43.822		44.818		44.470		44.501		44.490		44.470		44.831		44.830		44.635	
DESIGN SURFACE LEVEL	46.067		46.207		46.349		46.056		46.207		46.130		46.056		46.192		46.395		46.192		46.192	
SETOUT COORDINATES	E 33792.885 N 73960.583	E 33802.819 N 73951.200	E 33766.073 N 73929.372	E 33783.303 N 73947.486	E 33802.819 N 73951.200	E 33781.820 N 73948.878	E 33781.820 N 73948.878	E 33783.303 N 73947.486	E 33806.866 N 73947.376	E 33806.866 N 73947.376	E 33786.936 N 73929.286	E 33786.936 N 73929.286	E 33806.866 N 73947.376	E 33806.866 N 73947.376	E 33826.794 N 73968.466	E 33826.794 N 73968.466	E 33806.866 N 73947.376	E 33806.866 N 73947.376	E 33806.866 N 73947.376	E 33806.866 N 73947.376	E 33806.866 N 73947.376	E 33806.866 N 73947.376
RUNNING CHAINAGE	0.000	13.664	0.000	25.000	0.000	25.000	19.866	44.866	0.000	2.033	0.000	2.033	29.017	29.017	0.000	29.015	0.000	29.015	29.015	29.015	29.015	29.015
LINE	549		550		570		571		572													

STRUCTURE SETOUT REFERENCE POINT

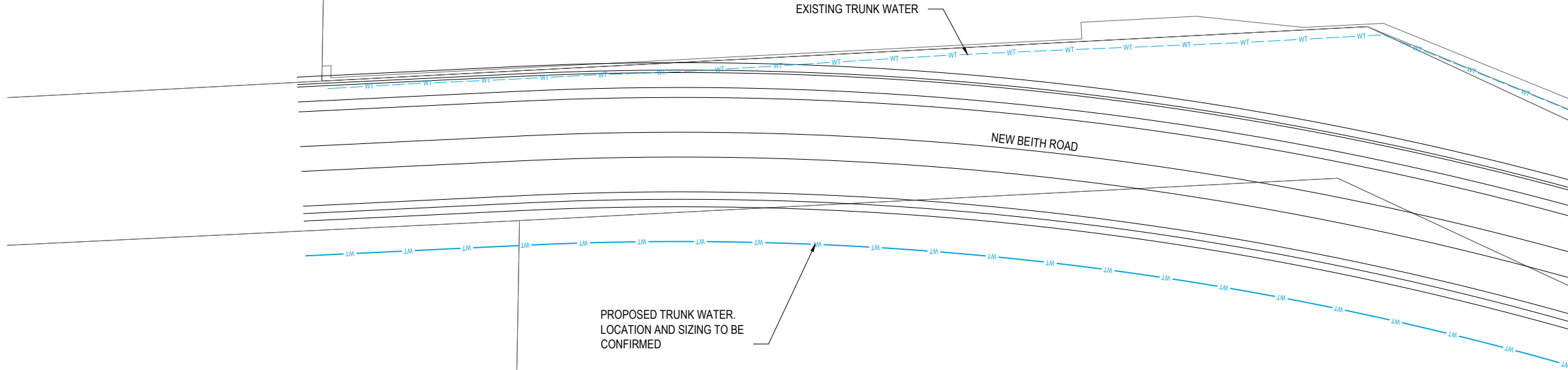
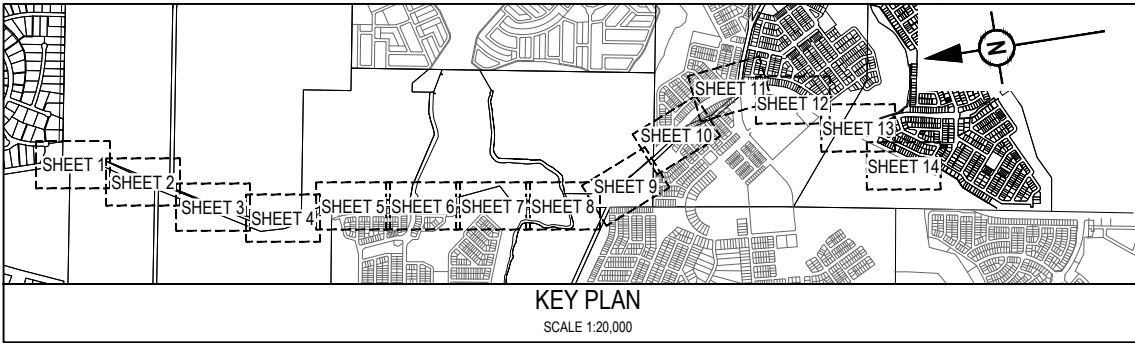
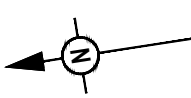
STRUCTURE TYPE	HORIZONTAL	VERTICAL
MANHOLE	 MAIN SHAFT	FINISHED SURFACE LEVEL
GULLY PIT	 INTERSECTION OF PIT AND KERB INVERT LNE # (INCLUDING MANHOLES UNDER GULLIES)	KERB INVERT LEVEL
HEADWALL	 INTERSECTION OF HEADWALL FACE & PIPE CENTRE LINE	TOP OF HEADWALL

NOTE:
WITHIN GULLY PIT CHAMBER, CONTRACTOR TO ENSURE STORMWATER PIPES ARE OFFSET AS REQUIRED SO THAT PIPES ENTER WHOLLY WITHIN A SIDE WALL

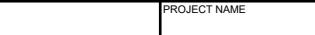
REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS		SCALE		CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION				PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 33 OF 33		
							DESIGN	APPROVED		DATE	ASSOCIATED CONSULTANT		HOMESTEAD DRIVE FLAGSTONE	PROJECT No.	DRAWING No.	REVISION
							PM	DANIEL COLLINS	RPEQ 18631	12.09.24	VERIS (07) 3666 4700			22-0145	P222	A
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD																

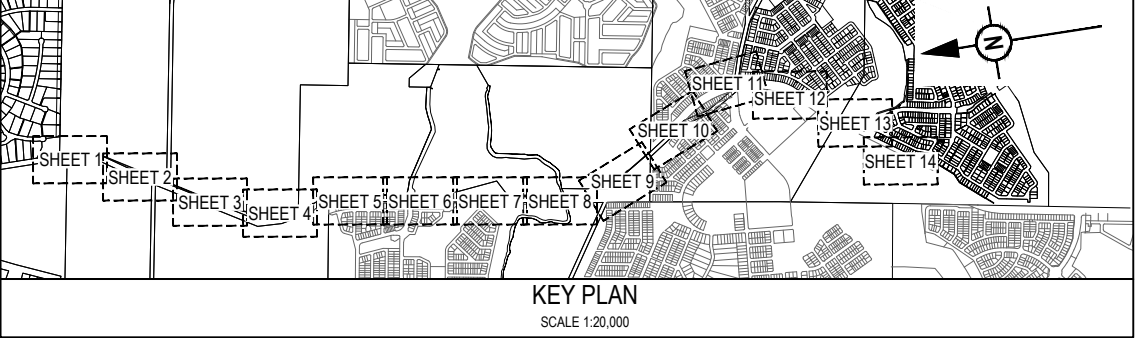
LEGEND

- PROPOSED AREA OF WORKS
- EXISTING SEWER MAIN
- EXISTING TRUNK SEWER MAIN
- PROPOSED TRUNK WATER MAIN
- EXISTING WATER MAIN
- EXISTING TRUNK WATER MAIN
- EXISTING WATER CONDUIT



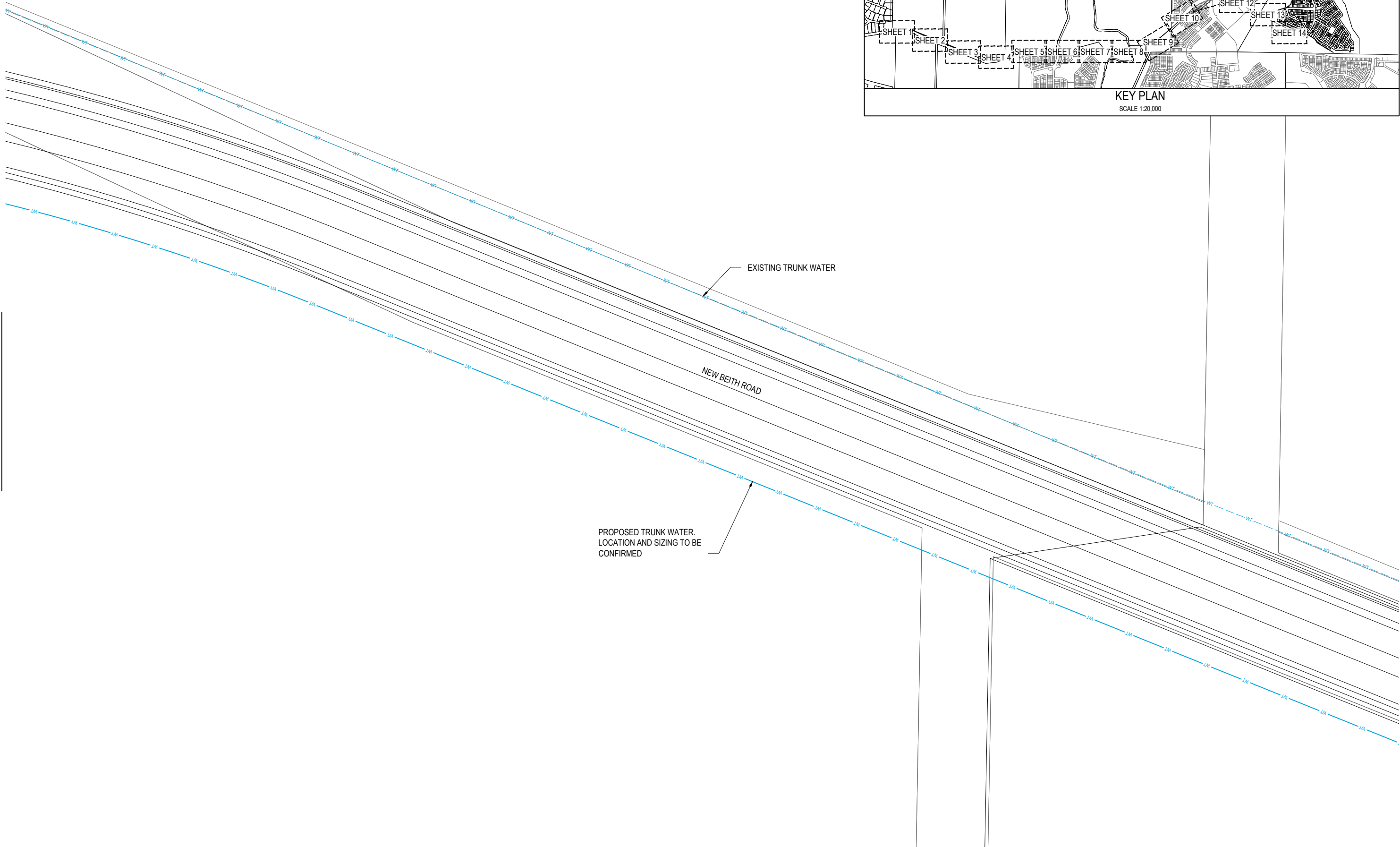
REFER SHEET 2 FOR CONTINUATION

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE 1:500 1:1000 	CLIENT PEET FLAGSTONE CITY PTY. LTD. ASSOCIATED CONSULTANT VERIS (07) 3666 4700	PROJECT NAME NEW BEITH ROAD - FLAGSTONE HOMESTEAD DRIVE FLAGSTONE	DRAWING TITLE ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 1 OF 14		
					DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION								

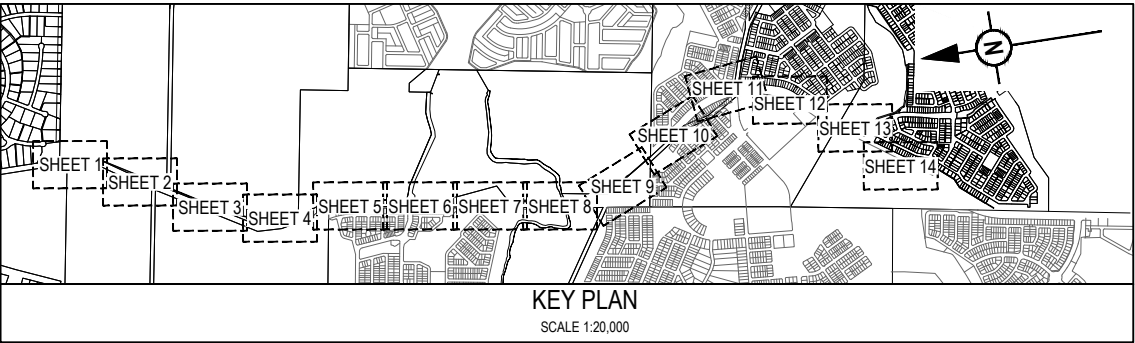


REFER SHEET 1 FOR CONTINUATION

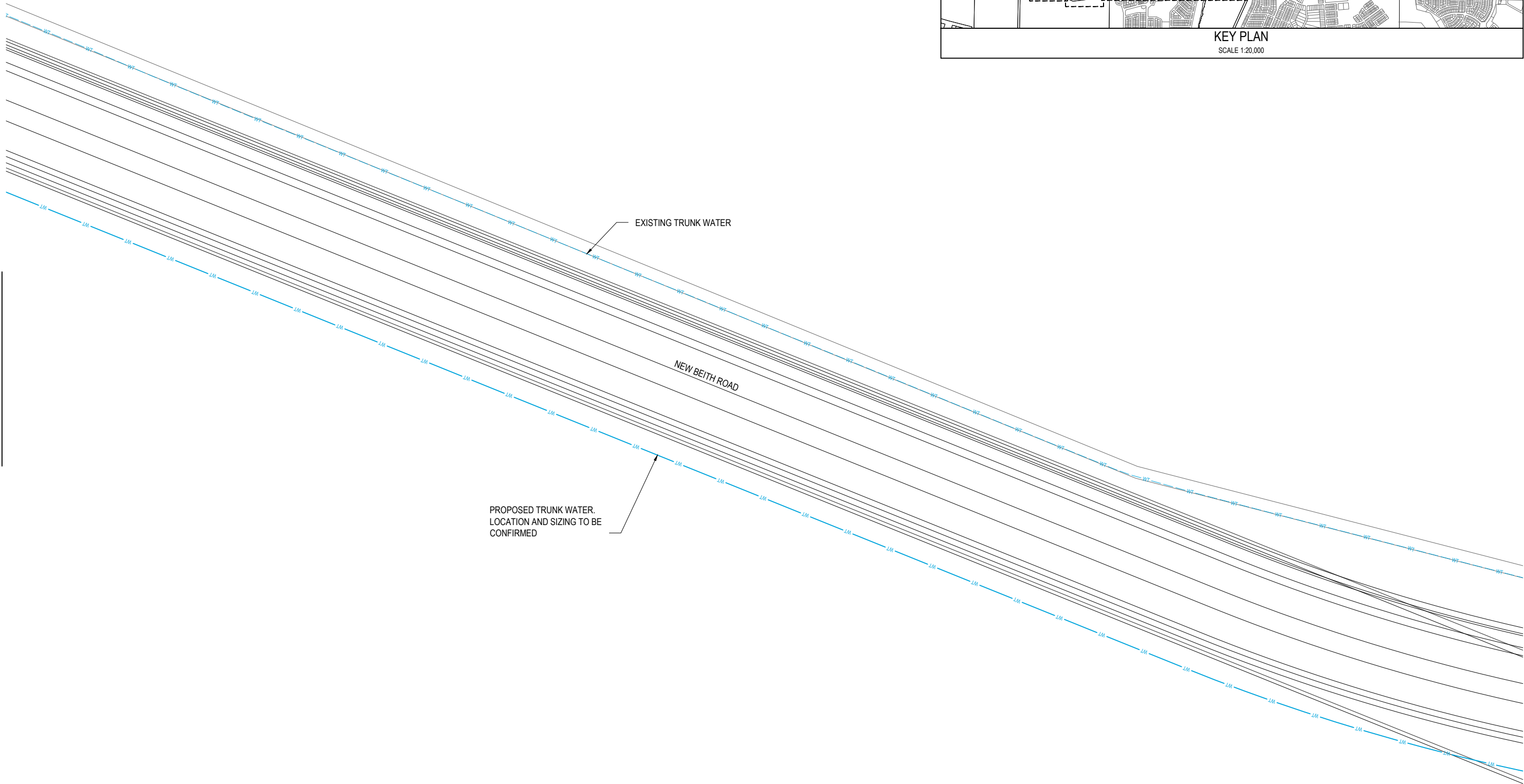
REFER SHEET 3 FOR CONTINUATION



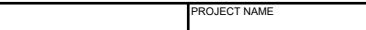
REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE 1:500 1:1000 	CLIENT PEET FLAGSTONE CITY PTY. LTD.	PROJECT NAME NEW BEITH ROAD - FLAGSTONE	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE	DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 2 OF 14							
						DESIGN	APPROVED DANIEL COLLINS 	RPEQ 18631	DATE 12.09.24	ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No.	DRAWING No.	REVISION
					PM	FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD						22-0145	P301	A

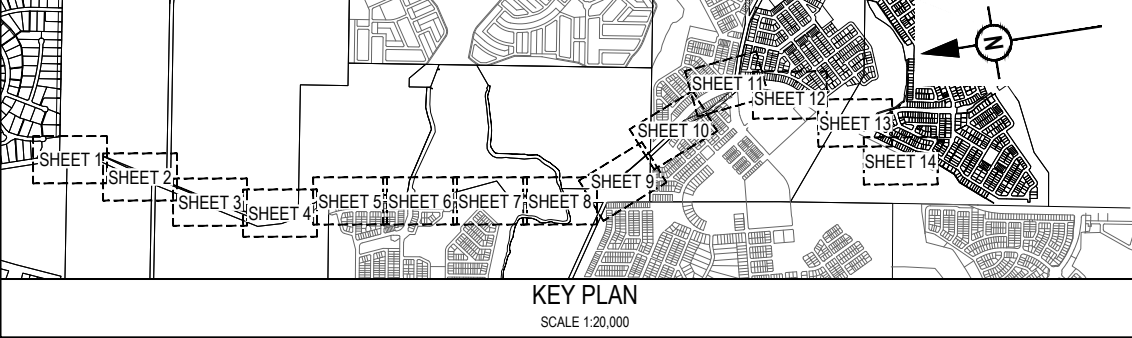
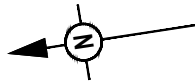


REFER SHEET 2 FOR CONTINUATION

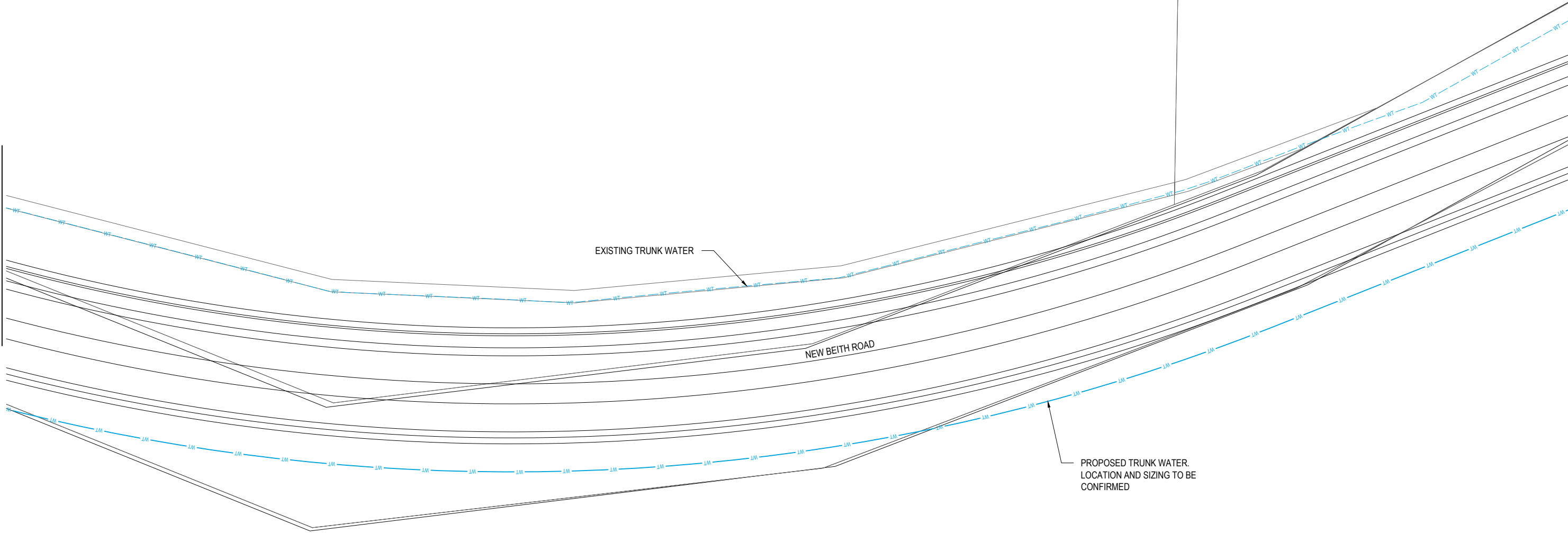


REFER SHEET 4 FOR CONTINUATION

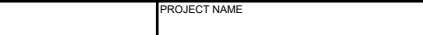
REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE 1:500 1:1000 	CLIENT PEET FLAGSTONE CITY PTY. LTD. ASSOCIATED CONSULTANT VERIS (07) 3666 4700	PROJECT NAME NEW BEITH ROAD - FLAGSTONE HOMESTEAD DRIVE FLAGSTONE	DRAWING TITLE ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 3 OF 14		
A	12.09.24	PM	DH	ORIGINAL ISSUE	DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	PROJECT No. 22-0145					DRAWING No. P302	REVISION A	
					PM	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24  FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD								

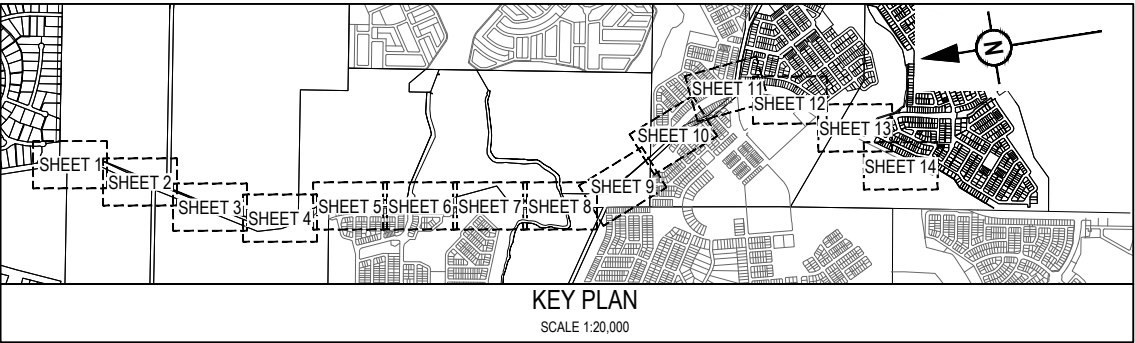


REFER SHEET 3 FOR CONTINUATION

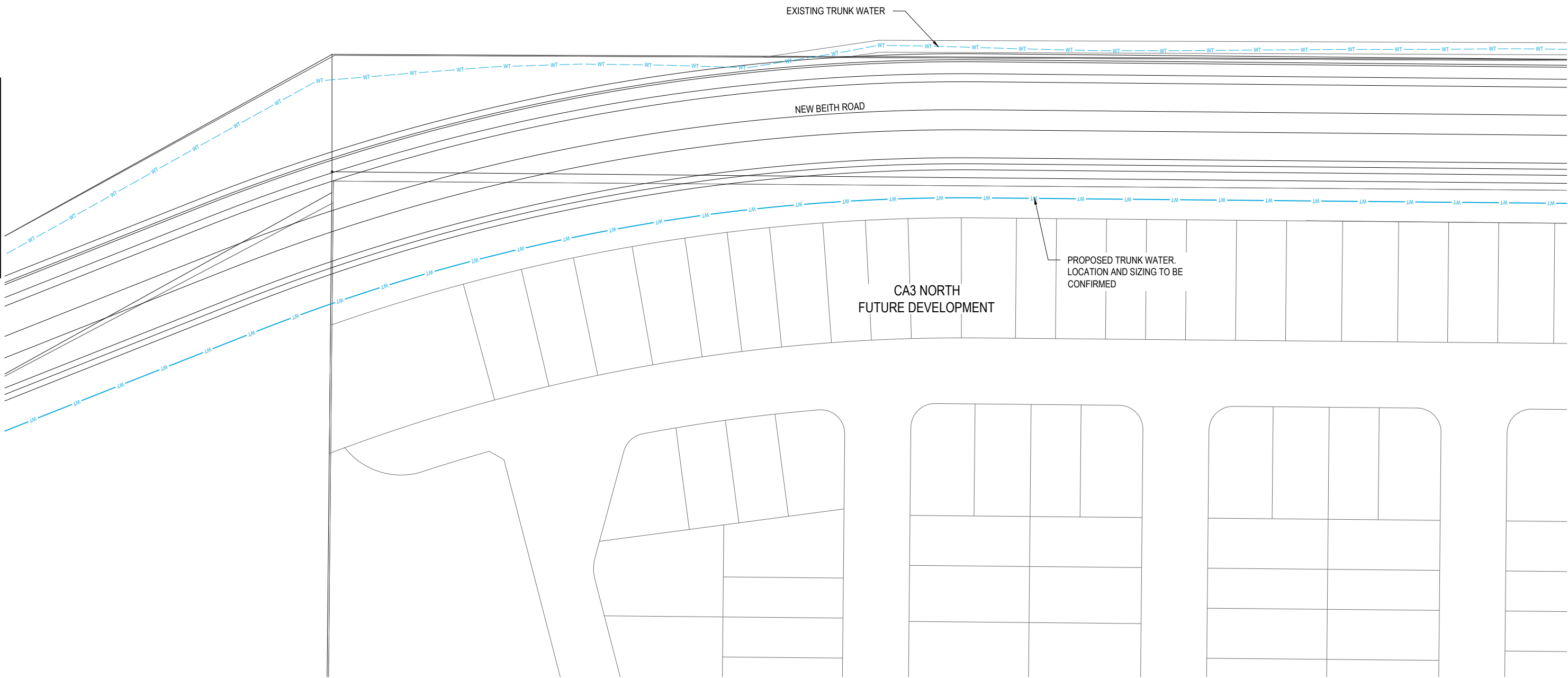


REFER SHEET 5 FOR CONTINUATION

REV	DATE	DESIGN	DRAWN	REVISION DETAILS				DRAWN	STATUS			SCALE		CLIENT	PROJECT NAME		DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE				DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			1:500 1:1000		A1 A3	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 4 OF 14		
								PM	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24  FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD			ASSOCIATED CONSULTANT VERIS (07) 3666 4700		HOMESTEAD DRIVE FLAGSTONE			PROJECT No. 22-0145	DRAWING No. P303	REVISION A

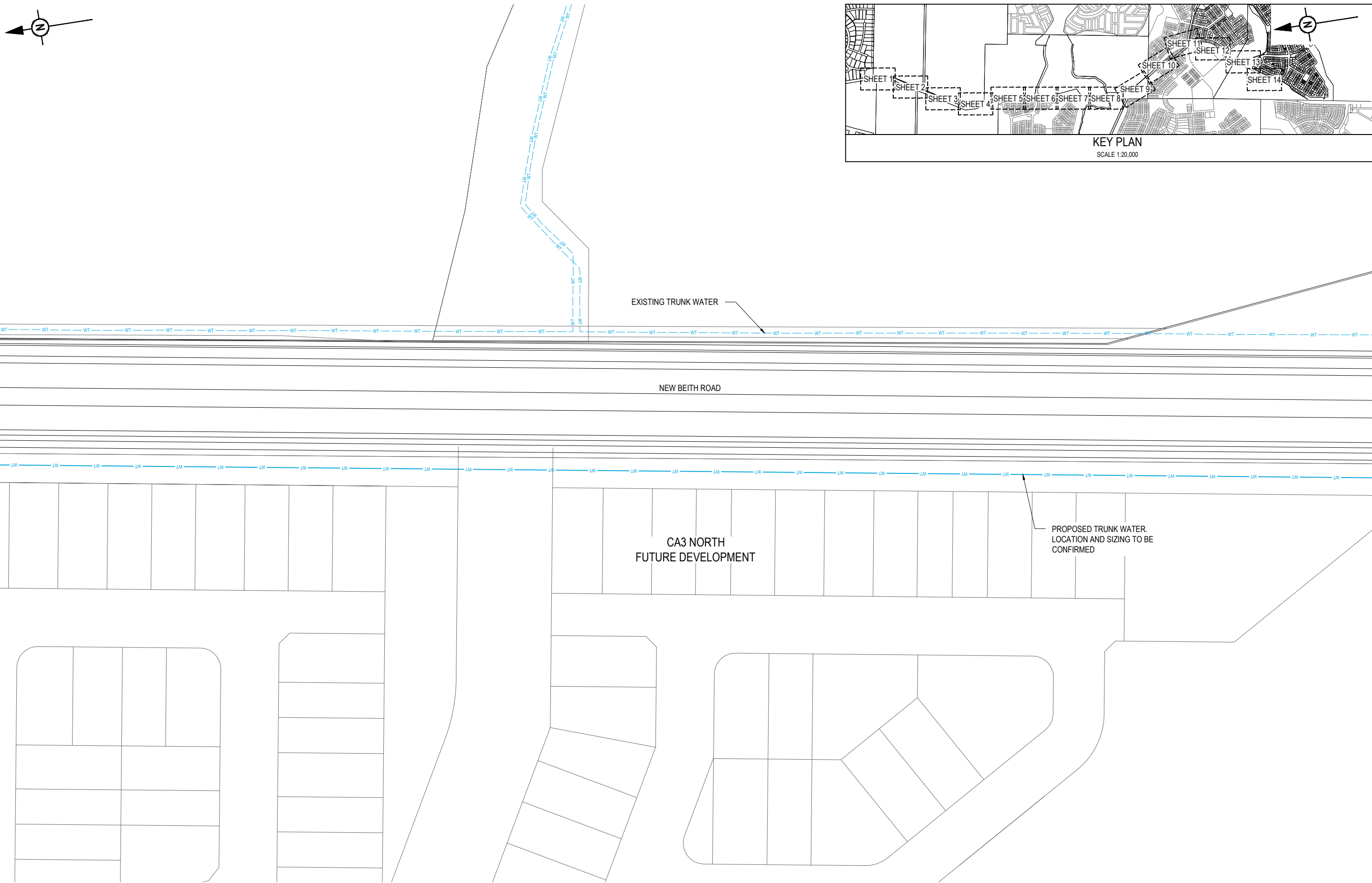
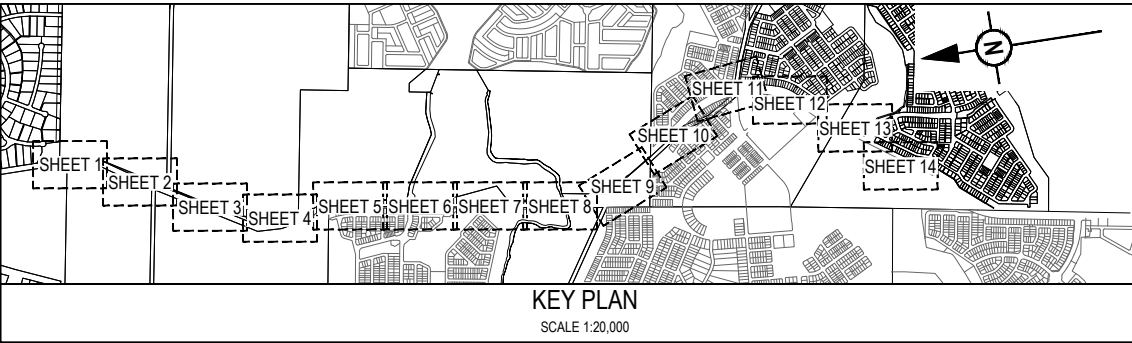
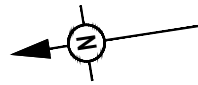


REFER SHEET 4 FOR CONTINUATION



REFER SHEET 6 FOR CONTINUATION

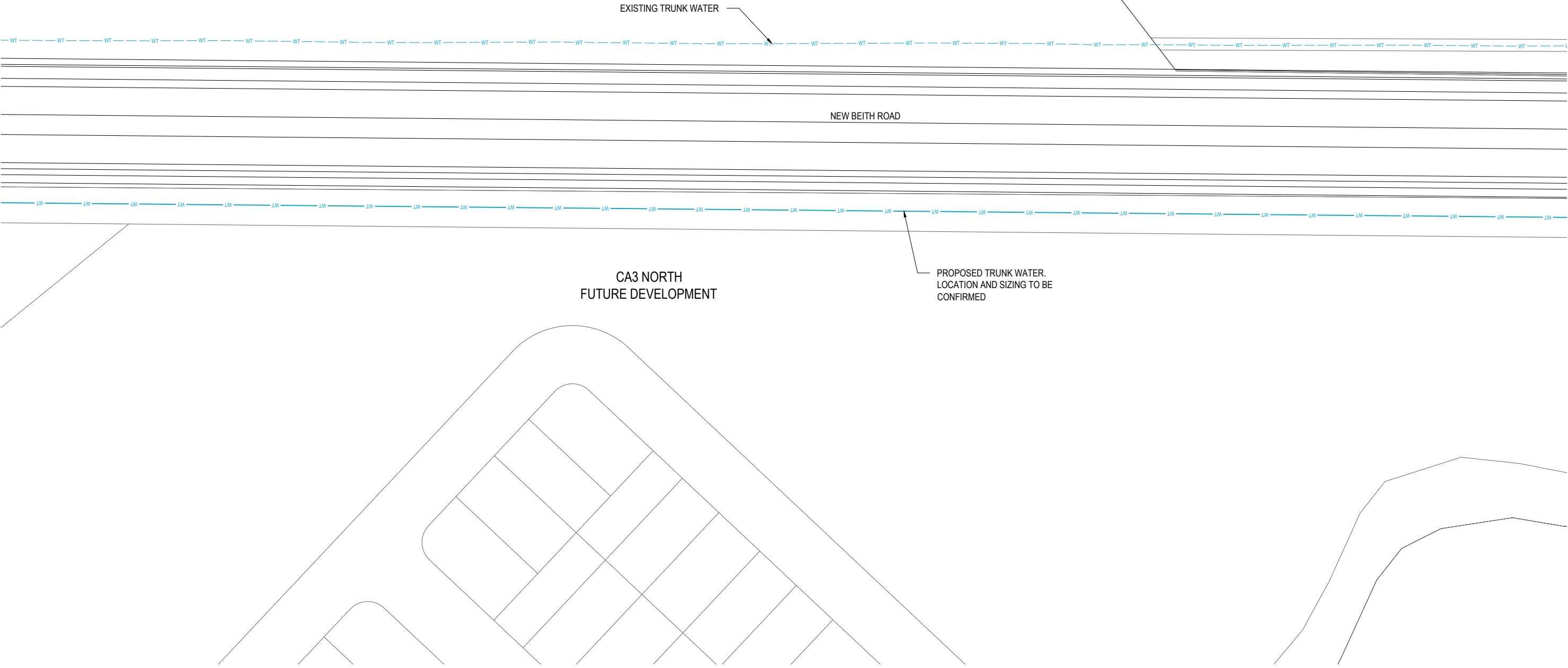
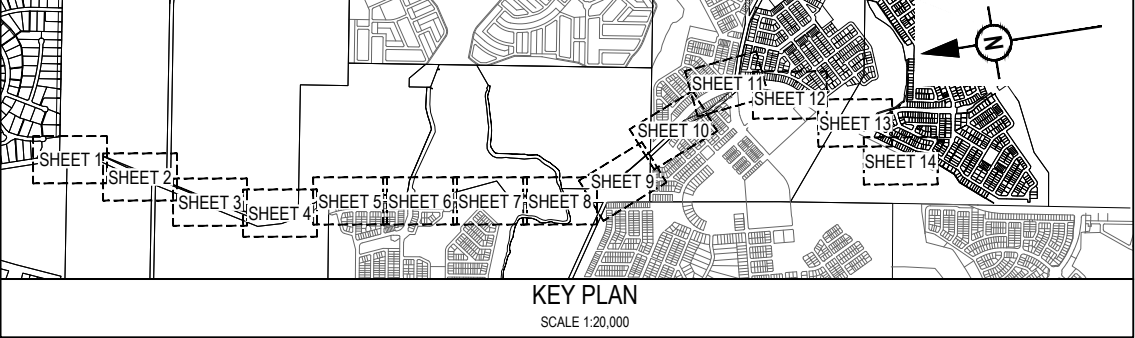
REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
A	12.09.24	PM	DH	ORIGINAL ISSUE	DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION	1:500 1:1000	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 5 OF 14
					PM	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	10 5 0 10 20 A1 A3	ASSOCIATED CONSULTANT VERIS (07) 3666 4700	HOMESTEAD DRIVE FLAGSTONE	PROJECT No. 22-0145 DRAWING No. P304 REVISION A

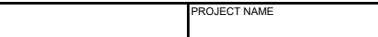


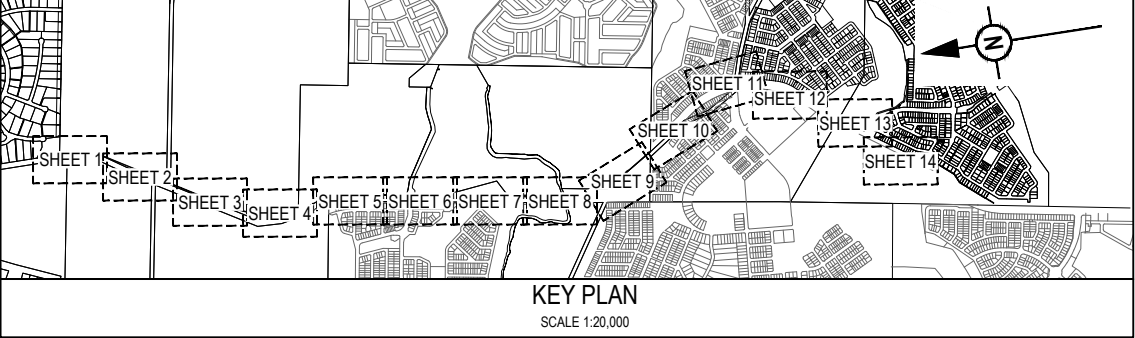
REFER SHEET 5 FOR CONTINUATION

REFER SHEET 7 FOR CONTINUATION

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE		CLIENT	PROJECT NAME		DRAWING TITLE			
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			1:500 1:1000		10 5 0 10 20 A1 A3	PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE		ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 6 OF 14		
						PM	DESIGN APPROVED DANIEL COLLINS	RPEQ 18631  DATE 12.09.24		ASSOCIATED CONSULTANT VERIS (07) 3666 4700		HOMESTEAD DRIVE FLAGSTONE		PROJECT No. 22-0145	DRAWING No. P305	REVISION A		



REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE		CLIENT	PROJECT NAME	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION		1:500 1:1000		PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE	ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 7 OF 14		



EXISTING TRUNK WATER

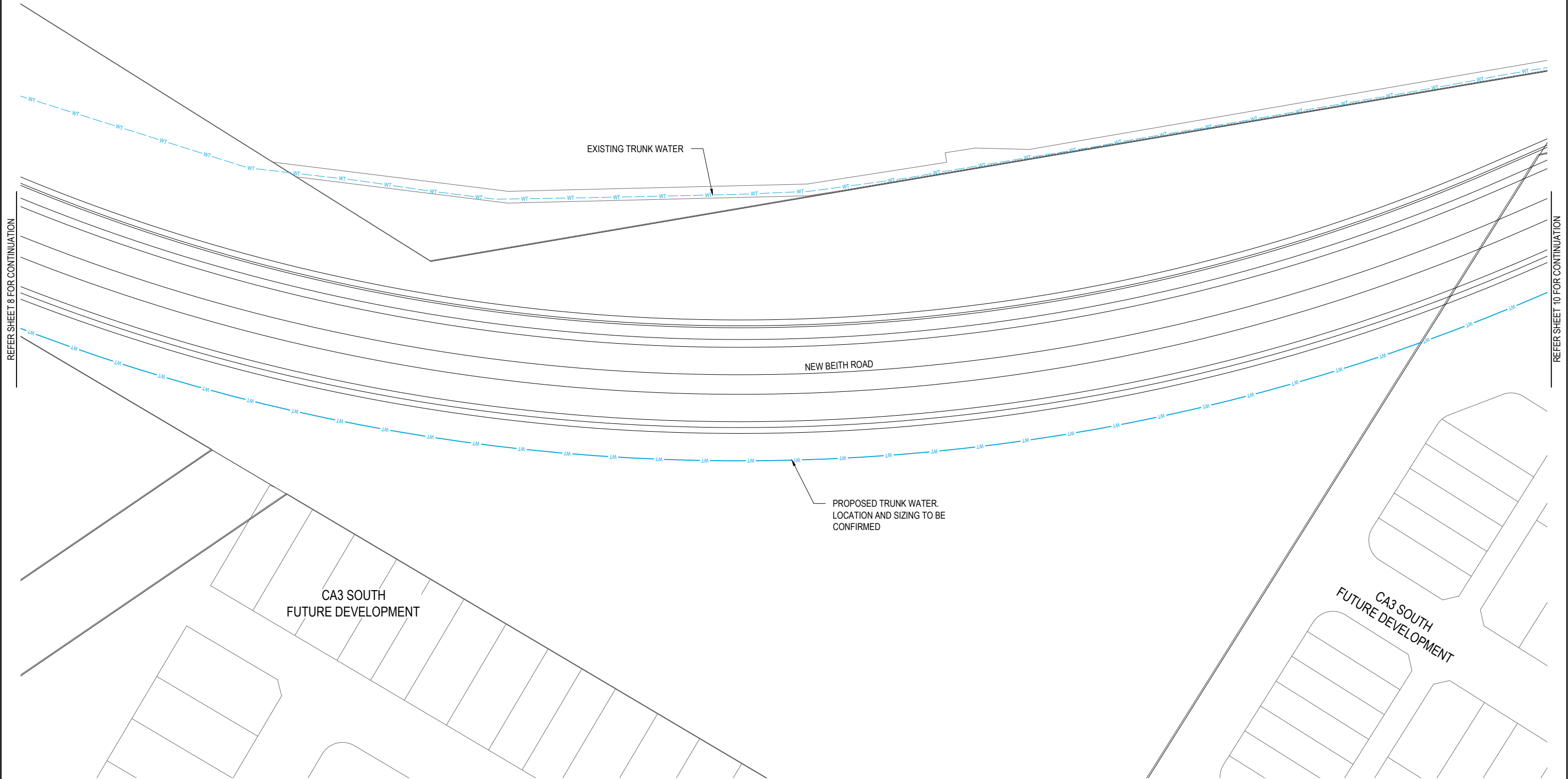
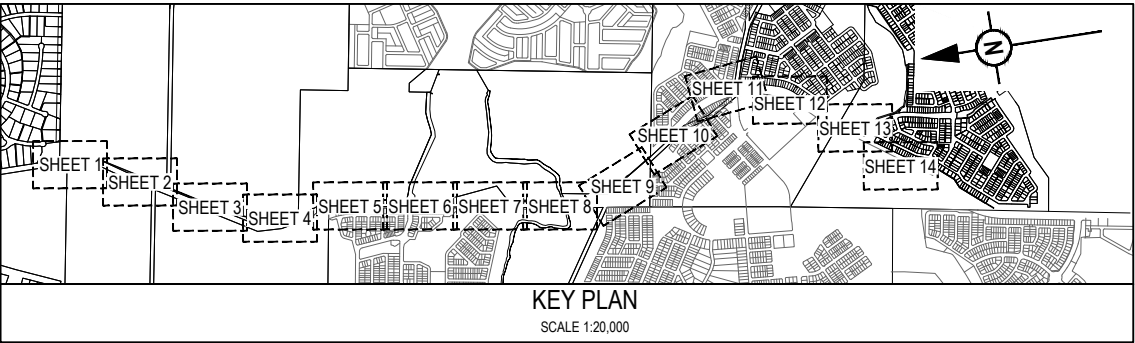
NEW BEITH ROAD

PROPOSED TRUNK WATER.
LOCATION AND SIZING TO BE
CONFIRMED

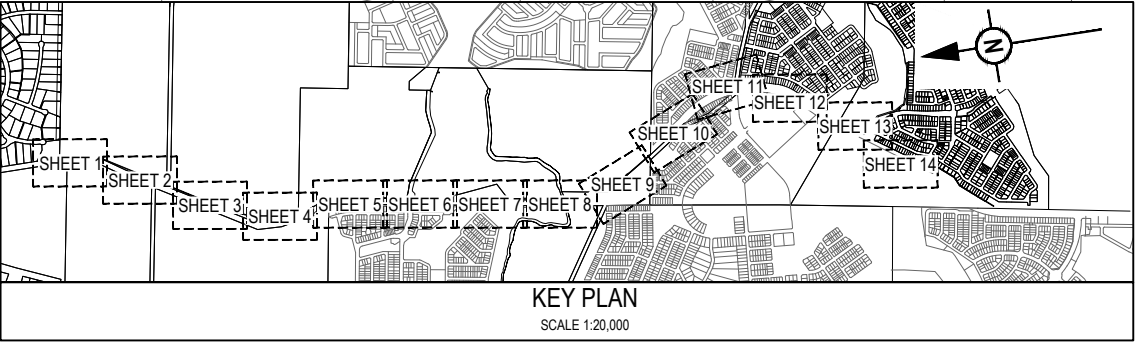
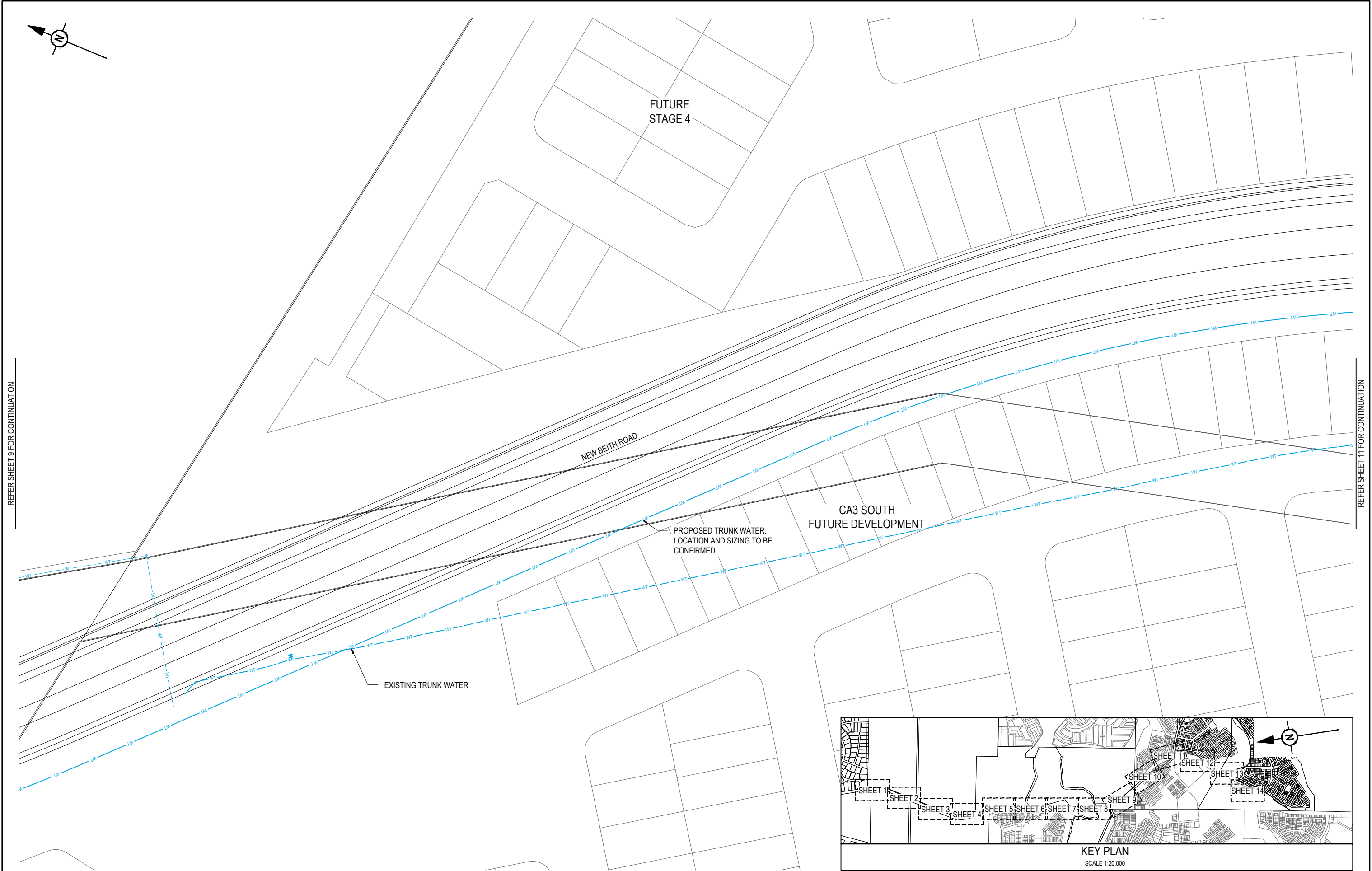
REFER SHEET 7 FOR CONTINUATION

REFER SHEET 9 FOR CONTINUATION

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE 1:500 10 5 0 10 20 A1 1:1000  A3	CLIENT PEET FLAGSTONE CITY PTY. LTD. ASSOCIATED CONSULTANT VERIS (07) 3666 4700	PROJECT NAME NEW BEITH ROAD - FLAGSTONE HOMESTEAD DRIVE FLAGSTONE	DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION						ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 8 OF 14		
						PM	DESIGN	APPROVED DANIEL COLLINS	RPEQ 18631				DATE 12.09.24	PROJECT No.	DRAWING No.
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD													22-0145		

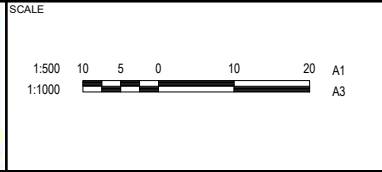


REV	DATE	DESIGN	DRAWN	REVISION DETAILS			DRAWN	STATUS			SCALE		CLIENT	PROJECT NAME		DRAWING TITLE		
A	12.09.24	PM	DH	ORIGINAL ISSUE			DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION			1:500 1:1000		PEET FLAGSTONE CITY PTY. LTD.	NEW BEITH ROAD - FLAGSTONE		ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 9 OF 14		
							PM	DESIGN	APPROVED DANIEL COLLINS	RPEQ 18631	DATE 12.09.24	ASSOCIATED CONSULTANT VERIS (07) 3666 4700		HOMESTEAD DRIVE FLAGSTONE		PROJECT No. 22-0145	DRAWING No. P308	REVISION A
								FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD.										



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
A	12.09.24	PM	DH	ORIGINAL ISSUE

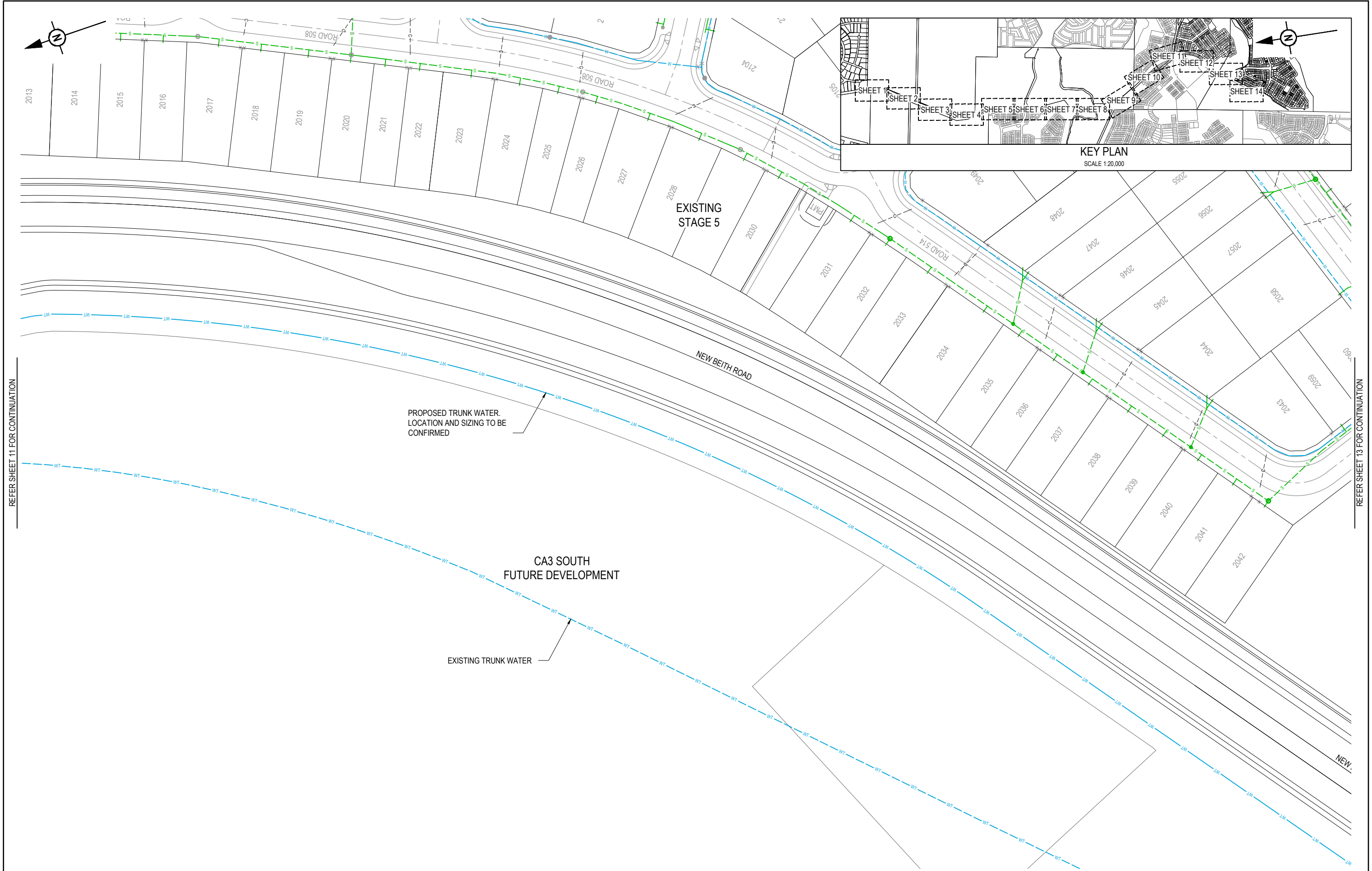
DRAWN	STATUS
DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION
DESIGN	APPROVED
PM	DANIEL COLLINS RPEQ 18631 12.09.24
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	



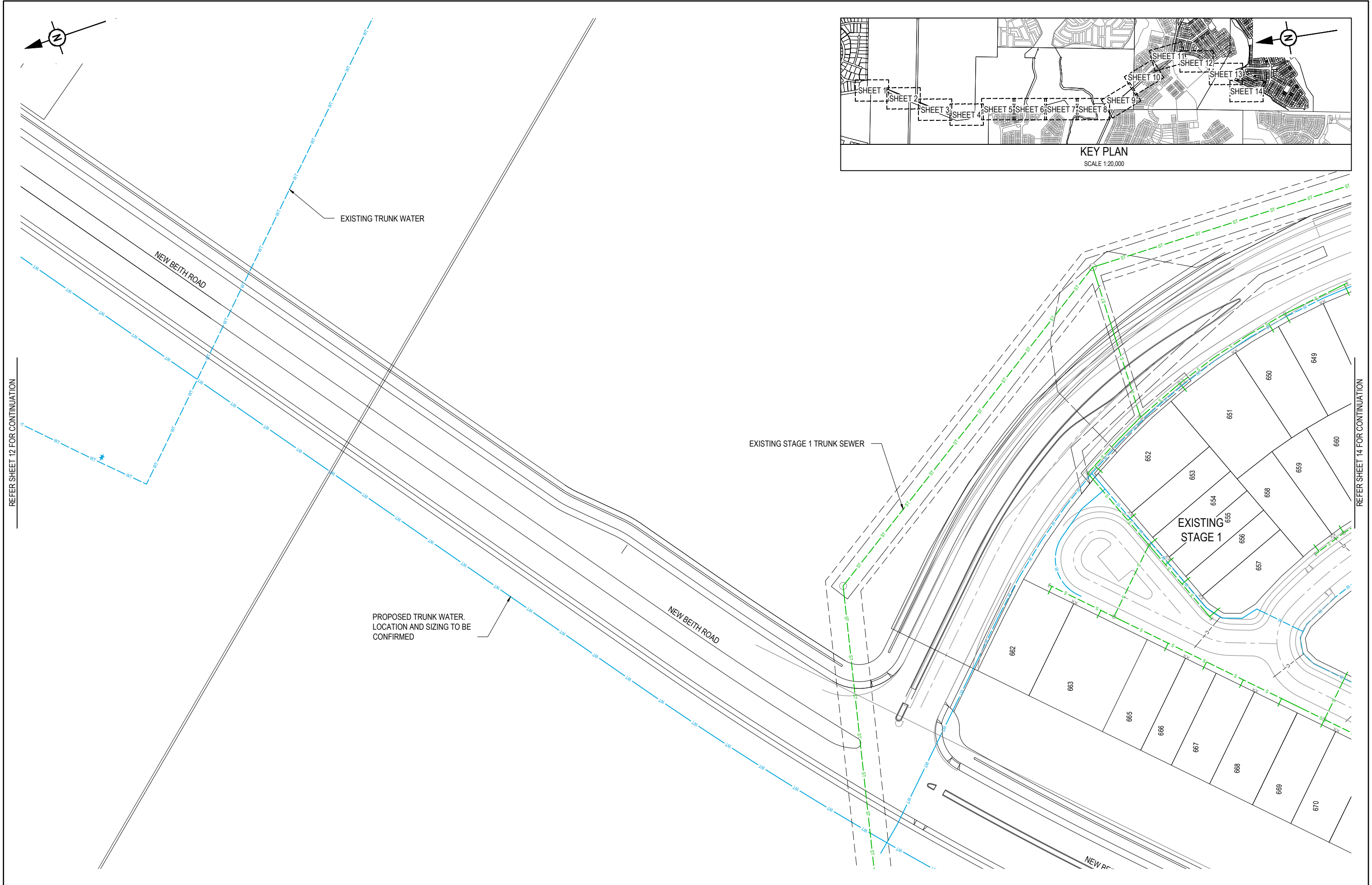
CLIENT
PEET FLAGSTONE CITY PTY. LTD.
ASSOCIATED CONSULTANT
VERIS (07) 3666 4700

PROJECT NAME
NEW BEITH ROAD - FLAGSTONE
HOMESTEAD DRIVE FLAGSTONE

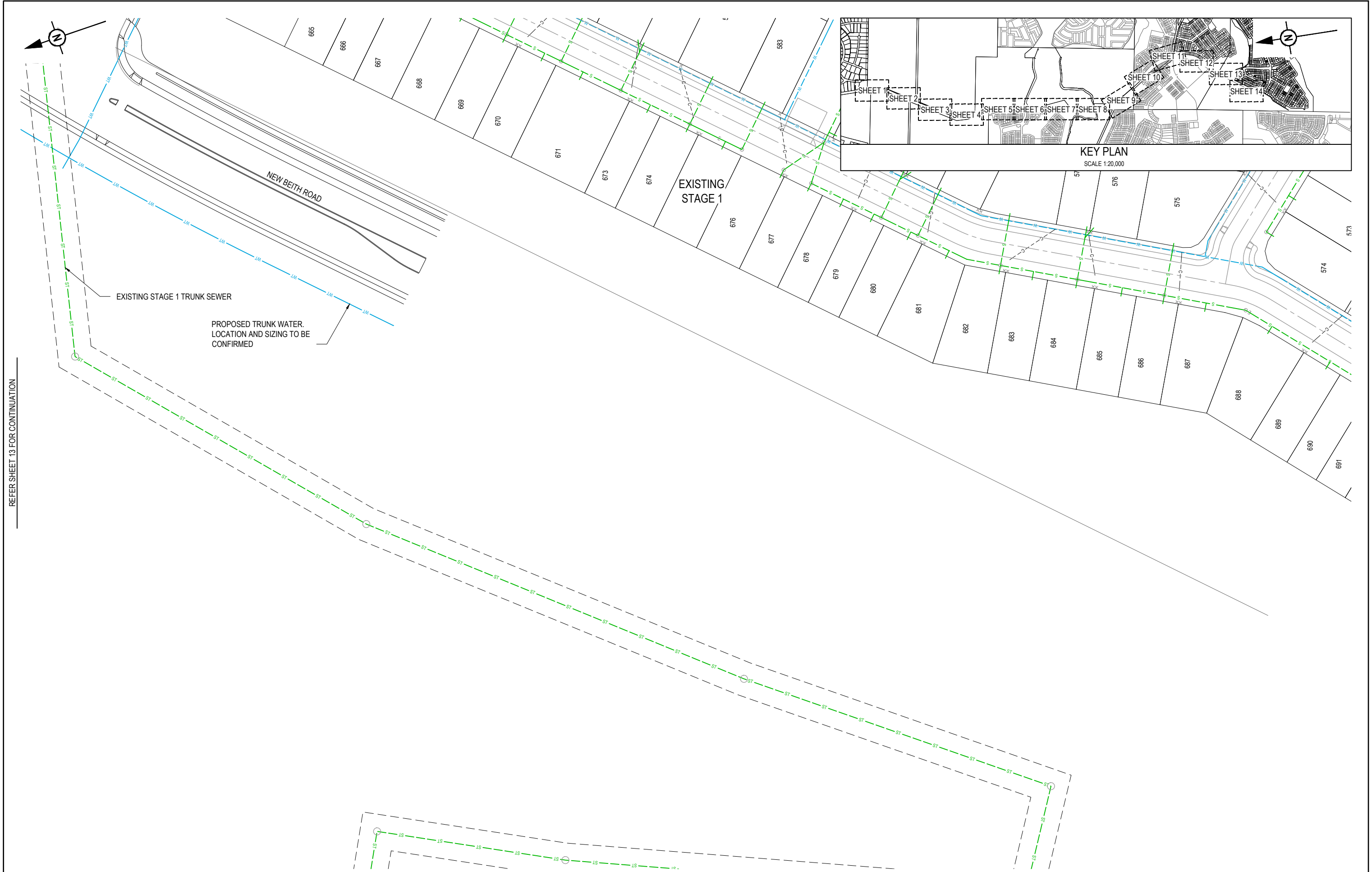
DRAWING TITLE		
ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 10 OF 14		
PROJECT No.	DRAWING No.	REVISION
22-0145	P309	A



REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE 1:500 1:1000  A1 A3	CLIENT PEET FLAGSTONE CITY PTY. LTD. ASSOCIATED CONSULTANT VERIS (07) 3666 4700	PROJECT NAME NEW BEITH ROAD - FLAGSTONE HOMESTEAD DRIVE FLAGSTONE	DRAWING TITLE ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 12 OF 14		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION						PROJECT No. 22-0145		
						PM	DESIGN APPROVED DANIEL COLLINS  FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	RPEQ 18631					DATE 12.09.24	DRAWING No. P311	REVISION A



REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE 1:500 1:1000  A1 A3	CLIENT PEET FLAGSTONE CITY PTY. LTD. ASSOCIATED CONSULTANT VERIS (07) 3666 4700	PROJECT NAME NEW BEITH ROAD - FLAGSTONE HOMESTEAD DRIVE FLAGSTONE	DRAWING TITLE ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 13 OF 14			
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION						PROJECT No. 22-0145		DRAWING No. P312	REVISION A
						PM	DESIGN	APPROVED DANIEL COLLINS  RPEQ 18631 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD					DATE 12.09.24			



REFER SHEET 13 FOR CONTINUATION

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS			SCALE 1:500 1:1000  A1 A3	CLIENT	PROJECT NAME NEW BEITH ROAD - FLAGSTONE	DRAWING TITLE ULTIMATE SEWER AND WATER NETWORK LAYOUT PLAN SHEET 14 OF 14		
A	12.09.24	PM	DH	ORIGINAL ISSUE		DH	FOR DEVELOPMENT APPLICATION NOT FOR CONSTRUCTION				PEET FLAGSTONE CITY PTY. LTD.		PROJECT No. 22-0145	DRAWING No. P313	REVISION A
						PM	APPROVED DANIEL COLLINS RPEQ 18631 DATE 12.09.24  FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	ASSOCIATED CONSULTANT VERIS (07) 3666 4700			HOMESTEAD DRIVE FLAGSTONE				