

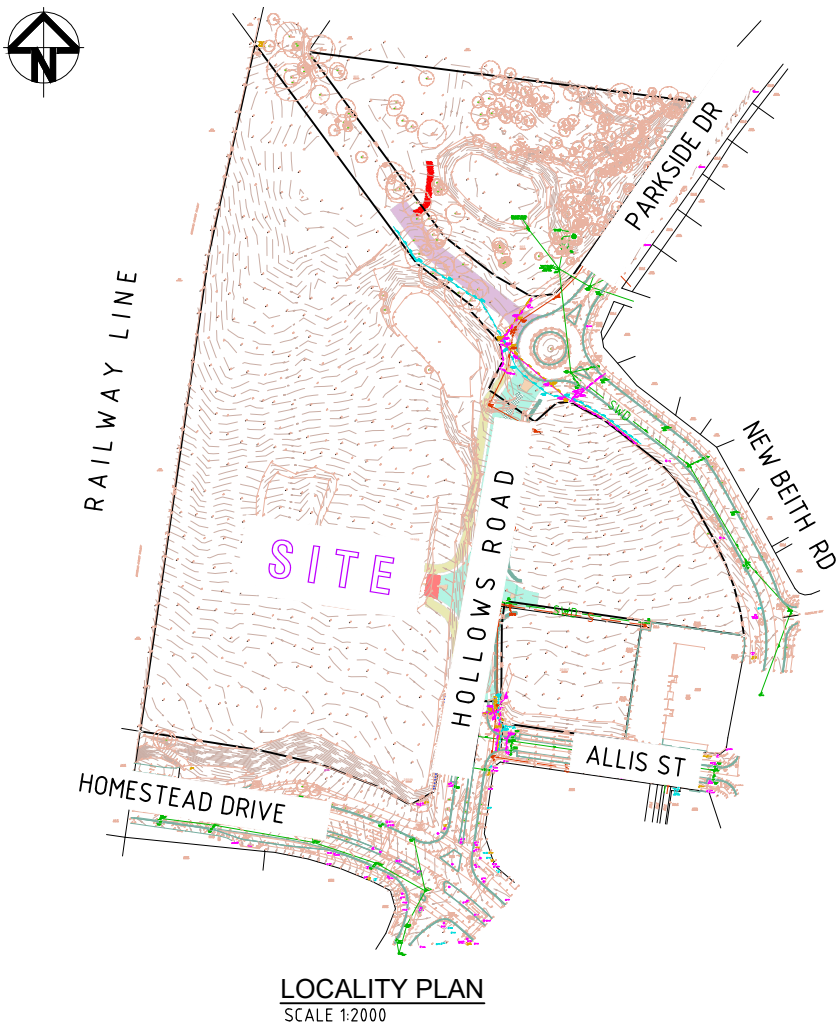
PROPOSED ROL COMMERCIAL DEVELOPMENT
CNR HOMESTEAD DRIVE / HOLLOWS ROAD, FLAGSTONE QLD
STAGE 1
CIVIL ENGINEERING OPW WORKS
FOR BLUE POINT PROPERTY

DRAWING INDEX	
DWG. No.	DESCRIPTION
C000	DRAWING SCHEDULE AND LOCALITY
C001	GENERAL NOTES
C100	EROSION AND SEDIMENT CONTROL PLAN - ESTABLISHMENT PHASE
C101	EROSION AND SEDIMENT CONTROL PLAN - CONSTRUCTION PHASE
C110	EROSION AND SEDIMENT CONTROL DETAILS
C200	BULK EARTHWORKS OVERALL PLAN
C201	BULK EARTHWORKS PLAN - SHEET 1 OF 4
C202	BULK EARTHWORKS PLAN - SHEET 2 OF 4
C203	BULK EARTHWORKS PLAN - SHEET 3 OF 4
C204	BULK EARTHWORKS PLAN - SHEET 4 OF 4
C210	BULK EARTHWORKS SECTIONS 1 OF 2
C211	BULK EARTHWORKS SECTIONS 2 OF 2
C220	RETAINING WALL LAYOUT PLAN
C230	RETAINING WALLS TYPICAL DETAIL
C231	RETAINING WALLS TYPICAL SETOUT DETAIL
C240	BLOCKWORK WALL DETAIL SECTION
C300	OVERALL EXTERNAL ROADWORKS LAYOUT PLAN
C301	EXTERNAL ROADWORKS LAYOUT PLAN HOLLOWS ROAD
C302	EXTERNAL ROADWORKS LAYOUT PLAN NEW BEITH ROAD
C311	EXTERNAL ROADWORKS AND DRAINAGE - SHEET 1 OF 6
C312	EXTERNAL ROADWORKS AND DRAINAGE - SHEET 2 OF 6
C313	EXTERNAL ROADWORKS AND DRAINAGE - SHEET 3 OF 6
C314	EXTERNAL ROADWORKS AND DRAINAGE - SHEET 4 OF 6
C315	EXTERNAL ROADWORKS AND DRAINAGE - SHEET 5 OF 6
C316	EXTERNAL ROADWORKS AND DRAINAGE - SHEET 6 OF 6
C320	HOLLOWS ROAD EXTENSION LONGITUDINAL SECTION
C321	NEW BEITH ROAD EXTENSION LONGITUDINAL SECTION
C322	NEW ROAD No.1 AND No. 2 LONGITUDINAL SECTION
C323	NEW ROAD No.3 LONGITUDINAL SECTION
C324	NEW ROAD No.4 LONGITUDINAL SECTION
C330	TYPICAL ROAD CROSS SECTIONS - SHEET 1 OF 2
C331	TYPICAL ROAD CROSS SECTIONS - SHEET 2 OF 2
C335	ROAD PAVEMENT DETAILS
C340	HOLLOWS ROAD CROSS SECTIONS - SHEET 1 OF 3
C341	HOLLOWS ROAD CROSS SECTIONS - SHEET 2 OF 3
C342	HOLLOWS ROAD CROSS SECTIONS - SHEET 3 OF 3
C343	NEW BEITH ROAD CROSS SECTIONS - SHEET 1 OF 2
C344	NEW BEITH ROAD CROSS SECTIONS - SHEET 2 OF 2
C345	ROAD 1 CROSS SECTIONS
C346	ROAD 2 CROSS SECTIONS
C350	KERB RETURNS NEW ROUNDABOUT HOLLOWS ROAD - SHEET 1 OF 3
C351	KERB RETURNS NEW ROUNDABOUT HOLLOWS ROAD - SHEET 2 OF 3
C352	KERB RETURNS NEW ROUNDABOUT HOLLOWS ROAD - SHEET 3 OF 3
C353	KERB RETURNS EXISTING ROUNDABOUT NEW BEITH ROAD

C360	LINEMARKING AND SIGNAGE LAYOUT PLAN - SHEET 1 OF 2
C361	LINEMARKING AND SIGNAGE LAYOUT PLAN - SHEET 2 OF 2
C400	OVERALL STORMWATER LAYOUT PLAN
C401	STORMWATER LAYOUT PLAN - SHEET 1 OF 4
C402	STORMWATER LAYOUT PLAN - SHEET 2 OF 4
C403	STORMWATER LAYOUT PLAN - SHEET 3 OF 4
C404	STORMWATER LAYOUT PLAN - SHEET 4 OF 4
C410	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 1 OF 6
C411	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 2 OF 6
C412	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 3 OF 6
C413	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 4 OF 6
C414	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 5 OF 6
C415	STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 6 OF 6
C420	EXTERNAL STORMWATER DRAINAGE CALCULATIONS - SHEET 1 OF 3
C421	EXTERNAL STORMWATER DRAINAGE CALCULATIONS - SHEET 2 OF 3
C422	EXTERNAL STORMWATER DRAINAGE CALCULATIONS - SHEET 3 OF 3
C430	STORMWATER DRAINAGE STRUCTURE DETAILS
C440	STORMWATER CATCHMENT PLAN
C450	STORMWATER BASIN LAYOUT PLAN
C451	STORMWATER BASIN DETAILS
C455	STORMWATER BASIN SECTIONS
C460	STORMWATER DETAILS
C500	WATER LAYOUT PLAN
C501	WATER RETICULATION SHEET 1 OF 2
C502	WATER RETICULATION SHEET 2 OF 2
C600	SEWER LAYOUT PLAN
C601	SEWER PART PLAN SHEET 1 OF 2
C602	SEWER PART PLAN SHEET 2 OF 2
C610	SEWER LONGITUDINAL SECTIONS 1 OF 2
C611	SEWER LONGITUDINAL SECTIONS 2 OF 2
C620	SEWER DETAILS AND NOTES

SURVEY DATA	
SITE ORIGIN	
BM -	PM7132691
RL -	48.677m AHD
SITE AREA	
6.5236 Ha	
LOT DESCRIPTION	
LOTS 25007 & 25009 ON SP303120	
EASEMENT J, K & M ON SP303120	
LOCALITY: FLAGSTONE	
LOCAL GOVERNMENT:	
LOGAN CITY COUNCIL	

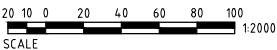
SURVEY DATA	
CO-ORDINATE ORIGIN	
HORIZONTAL DATUM	SP290275



CONSTRUCTION INSPECTION REQUIREMENTS	
IF CERTIFICATION OF THE WORKS IS REQUIRED TO BE PROVIDED BY FRIENDS ENGINEERING THE FOLLOWING INSPECTIONS (TO BE UNDERTAKEN BY FRIENDS ENGINEERING DURING CONSTRUCTION) ARE MANDATORY.	
EARTHWORKS:-	
1.	SUBGRADE PROOF ROLL. MIN. 10 TONNE WATER TRUCK REQUIRED.
ROADWORKS:-	
2.	PRE-EXCAVATION INSPECTION (IF ORDERED).
3.	SUBGRADE PROOF ROLL (BOTTOM OF BOX). MIN. 10 TONNE WATER TRUCK REQUIRED.
4.	PRE KERB VISUAL INSPECTION.
5.	RECTIFIED SUBGRADE PROOF ROLL (IF ORDERED). MIN. 10 TONNE WATER TRUCK REQUIRED.
6.	PRE-SEAL INSPECTION/PROOF ROLL. MIN. 10 TONNE WATER TRUCK REQUIRED.
7.	REINFORCEMENT INSPECTION (CONCRETE PAVEMENT ONLY).
8.	FINAL PRACTICAL COMPLETION INSPECTION.
STORMWATER:-	
9.	PRE-EXCAVATION INSPECTION (IF ORDERED).
10.	PRE-BACKFILL PIPE INSPECTION.
11.	STRUCTURE/PIT INSPECTION (PRIOR TO FINISH SURFACE APPLICATION).
12.	FINAL PRACTICAL COMPLETION INSPECTION.
BIORETENTION:-	
13.	BASIN BOX OUT AND SUBSOIL DRAINAGE INSPECTION.
14.	FINAL PRE-LANDSCAPING INSPECTION. (CONTRACTOR TO PROVIDE BIORETENTION FILTER MEDIA TEST CERTIFICATE PRIOR TO INSPECTION).
WATER SUPPLY & SEWER:-	
15.	PRE-EXCAVATION INSPECTION (IF ORDERED).
16.	PRE-BACKFILL INSPECTION.
17.	STRUCTURE/PIT INSPECTION (PRIOR TO FINISH SURFACE APPLICATION).
18.	STRUCTURE/PIT INSPECTION (PRIOR TO FINISH SURFACE APPLICATION).
19.	FINAL PRACTICAL COMPLETION INSPECTION.

IMPORTANT

Friends Civil Engineering Pty Ltd ABN 40 638 121 132 p. 0415 704 063 & 0422 024 440 e. contact@friendsengineer.com w. friendsengineer.com		Fe Friends civil engineering	
[01]	ORIGINAL ISSUE	TM	05/26
ISSUE	DESCRIPTION	BY	DATE
FILENAME: G:\Shared Drives\Projects 2025\FE25032 - 14-22 Wild Mint Drive, Flagstone\CAD\OPW\C000-FE25032 - COVER SHEET-EXTERNAL.dwg			

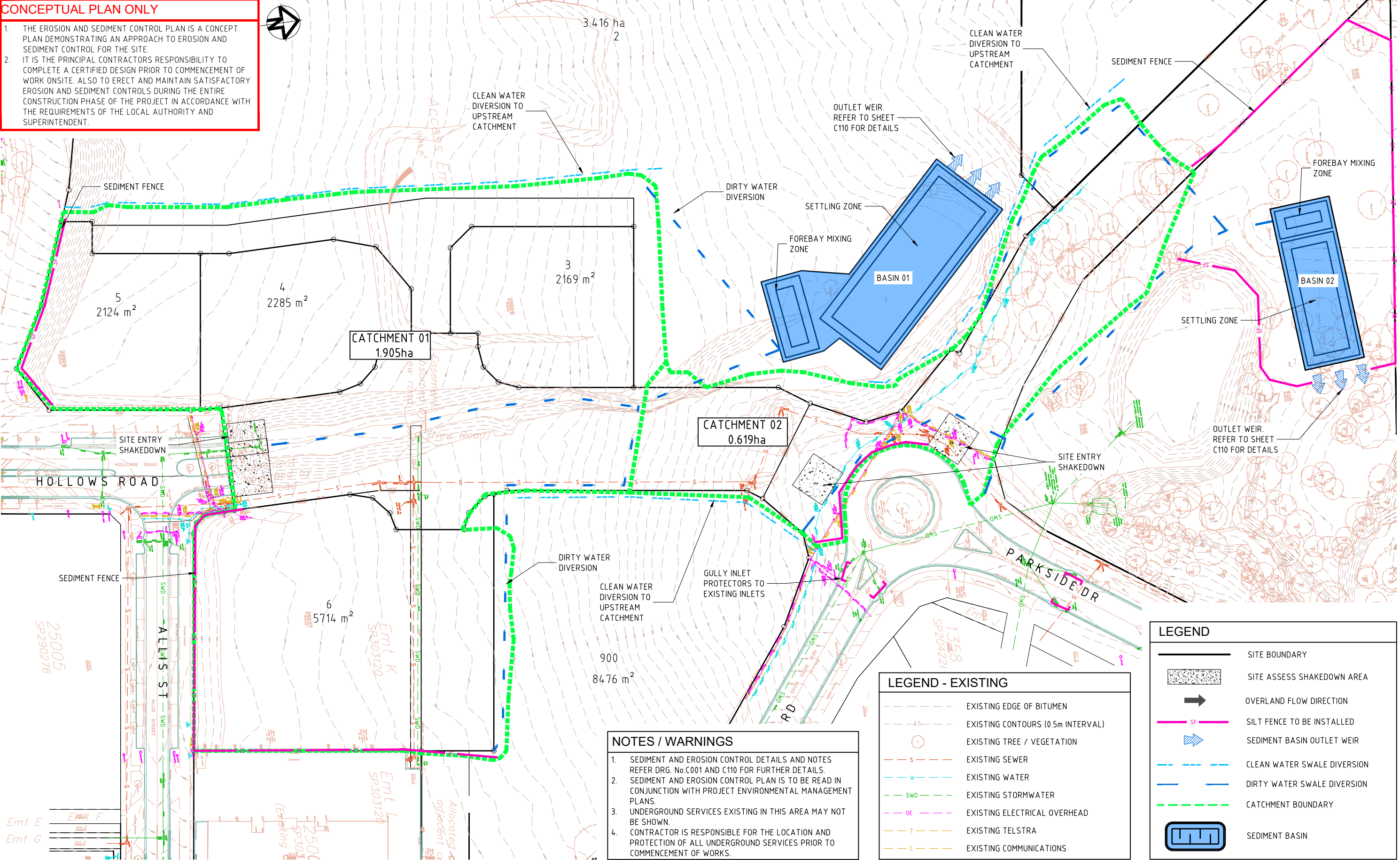


APPROVAL ISSUE
NOT FOR CONSTRUCTION

PROJECT No.	DRAWING No.	ISSUE
FE25032	C000	[01]

CONCEPTUAL PLAN ONLY

1. THE EROSION AND SEDIMENT CONTROL PLAN IS A CONCEPT PLAN DEMONSTRATING AN APPROACH TO EROSION AND SEDIMENT CONTROL FOR THE SITE.
2. IT IS THE PRINCIPAL CONTRACTORS RESPONSIBILITY TO COMPLETE A CERTIFIED DESIGN PRIOR TO COMMENCEMENT OF WORK ONSITE. ALSO TO ERECT AND MAINTAIN SATISFACTORY EROSION AND SEDIMENT CONTROLS DURING THE ENTIRE CONSTRUCTION PHASE OF THE PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY AND SUPERINTENDENT.



NOTES / WARNINGS

1. SEDIMENT AND EROSION CONTROL DETAILS AND NOTES REFER DRG. No.C001 AND C110 FOR FURTHER DETAILS.
2. SEDIMENT AND EROSION CONTROL PLAN IS TO BE READ IN CONJUNCTION WITH PROJECT ENVIRONMENTAL MANAGEMENT PLANS.
3. UNDERGROUND SERVICES EXISTING IN THIS AREA MAY NOT BE SHOWN.
4. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.

LEGEND - EXISTING

- EXISTING EDGE OF BITUMEN
- EXISTING CONTOURS (0.5m INTERVAL)
- EXISTING TREE / VEGETATION
- S- EXISTING SEWER
- W- EXISTING WATER
- SWD- EXISTING STORMWATER
- OE- EXISTING ELECTRICAL OVERHEAD
- T- EXISTING TELSTRA
- C- EXISTING COMMUNICATIONS

LEGEND

- SITE BOUNDARY
- SITE ASSESS SHAKEDOWN AREA
- OVERLAND FLOW DIRECTION
- SF- SILT FENCE TO BE INSTALLED
- SEDIMENT BASIN OUTLET WEIR
- CLEAN WATER SWALE DIVERSION
- DIRTY WATER SWALE DIVERSION
- CATCHMENT BOUNDARY
- SEDIMENT BASIN

ISSUE	DESCRIPTION	BY	DATE
01	ORIGINAL ISSUE	JD	05/26

ARCHITECT

SCALE (A1 SHEET)

10 0 10 20 1500

SCALE

SURVEYOR

SIMPSON RAYNER SURVEYS
SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167
CADASTRAL LAND SURVEYORS, PLANNERS
AND LAND DEVELOPMENT CONSULTANTS
5/MS3 Metroplex Avenue, MURARRIE QLD 4172
Telephone (07) 3899 8105 Fax: (07) 3899 8107
Email: info@srsurveys.com.au

CLIENT:

BLUEPOINT
PROPERTY

PROJECT TITLE:

COMMERCIAL DEVELOPMENT
CNR HOMESTEAD DR/HOLLOWS RD
FLAGSTONE QLD (STAGE 1)
LOTS 25007 & 25009 ON SP303120

APPROVAL ISSUE
NOT FOR CONSTRUCTION

APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD

AR

HEIGHT	AHD	DESIGNER	TM/GH
DATUM		CHECKER	AR
GRID	MGA	APPROVED	GH
ORIGINAL SHEET SIZE	A1		

Fe Friends
civil engineering

Friends Civil Engineering Pty Ltd
ABN 40 638 121 132
p. 0415 704 063 & 0422 024 440
e. contact@friendsengineer.com
w. friendsengineer.com

100mm on A1 SIZE SHEET

ESTABLISHMENT.dwg

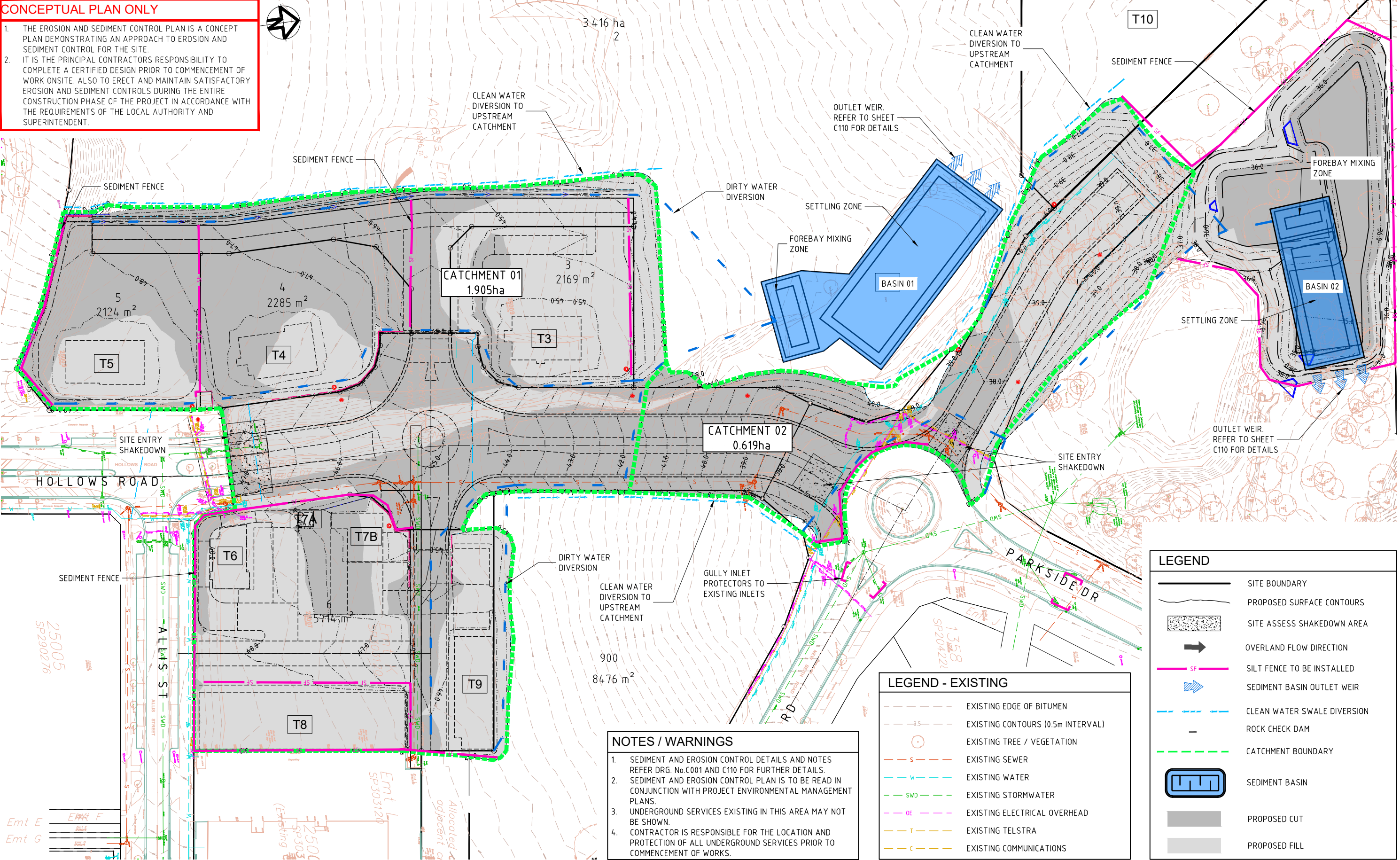
DRAWING TITLE:

EROSION AND SEDIMENT
CONTROL PLAN
ESTABLISHMENT PHASE

PROJECT No.	DRAWING No.	ISSUE
FE25032	C100	01

CONCEPTUAL PLAN ONLY

1. THE EROSION AND SEDIMENT CONTROL PLAN IS A CONCEPT PLAN DEMONSTRATING AN APPROACH TO EROSION AND SEDIMENT CONTROL FOR THE SITE.
2. IT IS THE PRINCIPAL CONTRACTORS RESPONSIBILITY TO COMPLETE A CERTIFIED DESIGN PRIOR TO COMMENCEMENT OF WORK ONSITE. ALSO TO ERECT AND MAINTAIN SATISFACTORY EROSION AND SEDIMENT CONTROLS DURING THE ENTIRE CONSTRUCTION PHASE OF THE PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY AND SUPERINTENDENT.



NOTES / WARNINGS

1. SEDIMENT AND EROSION CONTROL DETAILS AND NOTES REFER DRG. No.C001 AND C110 FOR FURTHER DETAILS.
2. SEDIMENT AND EROSION CONTROL PLAN IS TO BE READ IN CONJUNCTION WITH PROJECT ENVIRONMENTAL MANAGEMENT PLANS.
3. UNDERGROUND SERVICES EXISTING IN THIS AREA MAY NOT BE SHOWN.
4. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.

LEGEND - EXISTING

- EXISTING EDGE OF BITUMEN
- EXISTING CONTOURS (0.5m INTERVAL)
- EXISTING TREE / VEGETATION
- EXISTING SEWER
- EXISTING WATER
- EXISTING STORMWATER
- EXISTING ELECTRICAL OVERHEAD
- EXISTING TELSTRA
- EXISTING COMMUNICATIONS

LEGEND

- SITE BOUNDARY
- PROPOSED SURFACE CONTOURS
- SITE ASSESS SHAKEDOWN AREA
- OVERLAND FLOW DIRECTION
- SILT FENCE TO BE INSTALLED
- SEDIMENT BASIN OUTLET WEIR
- CLEAN WATER SWALE DIVERSION
- ROCK CHECK DAM
- CATCHMENT BOUNDARY
- SEDIMENT BASIN
- PROPOSED CUT
- PROPOSED FILL

ARCHITECT

SURVEYOR

CLIENT:

APPROVAL ISSUE
NOT FOR CONSTRUCTION

Fe Friends
civil engineering

DRAWING TITLE:

EROSION AND SEDIMENT
CONTROL PLAN
CONSTRUCTION PHASE

SIMPSON RAYNER SURVEYS
SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167
CADASTRAL LAND SURVEYORS, PLANNERS
AND LAND DEVELOPMENT CONSULTANTS
5/M53 Metroplex Avenue, MURARRIE QLD 4172
Telephone (07) 3899 8105 Fax: (07) 3899 8107
Email: info@srsurveys.com.au

PROJECT TITLE:
COMMERCIAL DEVELOPMENT
CNR HOMESTEAD DR/HOLLOWS RD
FLAGSTONE QLD (STAGE 1)
LOTS 25007 & 25009 ON SP303120

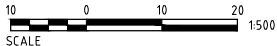
R.P.E.Q No : 24572		PROJECT TEAM	
HEIGHT	AHD	DESIGNER	TM/GH
DATUM		CHECKER	AR
GRID	MGA	APPROVED	GH
ORIGINAL SHEET SIZE	A1		

Friends Civil Engineering Pty Ltd
ABN 40 638 121 132
p. 0415 704 063 & 0422 024 440
e. contact@friendsengineer.com
w. friendsengineer.com
PO Box 614
BURLEIGH TOWN QLD 4220

PROJECT No.	DRAWING No.	ISSUE
FE25032	C101	01

01	ORIGINAL ISSUE	JD	05/26
ISSUE	DESCRIPTION	BY	DATE

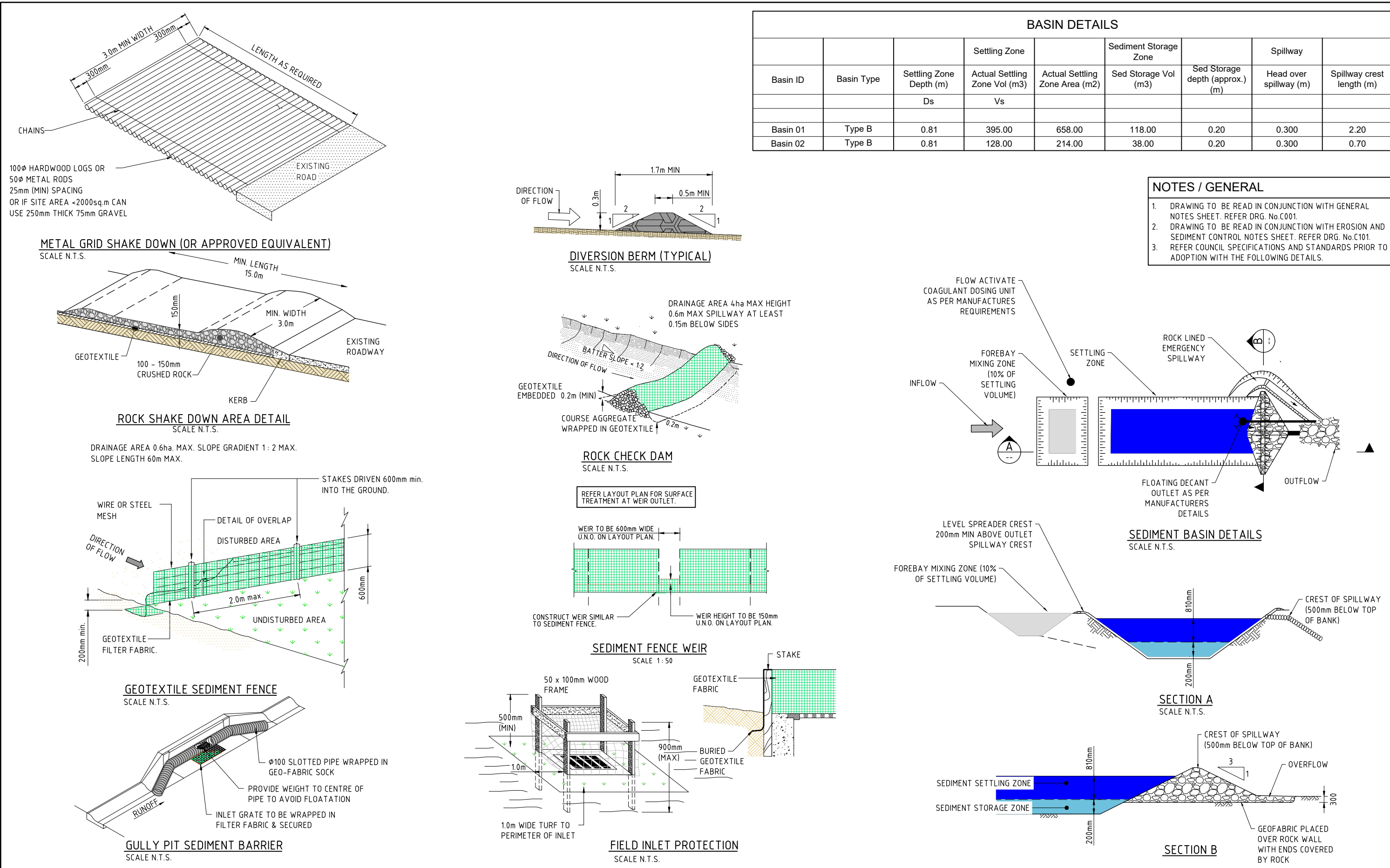
SCALE (A1 SHEET)



SCALES SHOWN ARE AT A1 SIZE

G:\Shared Drives\Projects 2025\FE25032 - 14-22 Wild Mint Drive, Flagstone\CAD\DWG\C101-FE25032 - EROSION AND SEDIMENT CONTROL PLAN - CONSTRUCTION.dwg

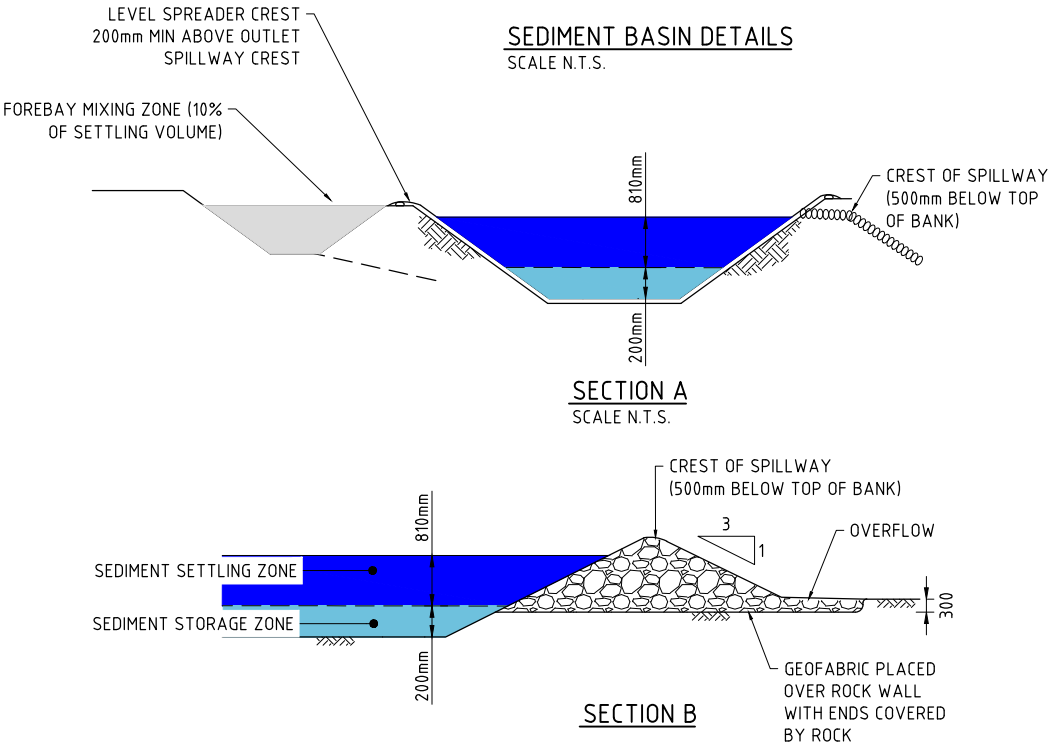
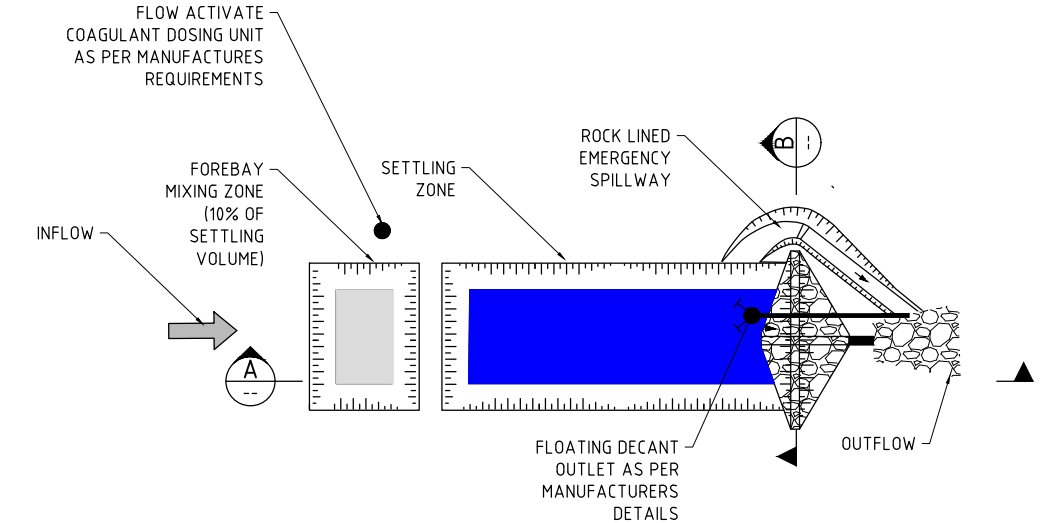
FRIENDS CIVIL ENGINEERING® IS A REGISTERED TRADEMARK OF FRIENDS CIVIL ENGINEERING PTY LTD. © 2025 FRIENDS CIVIL ENGINEERING PTY LTD. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED, OR TRANSMITTED IN ANY FORM WITHOUT PRIOR WRITTEN CONSENT



BASIN DETAILS								
Basin ID	Basin Type	Settling Zone Depth (m)	Actual Settling Zone Vol (m3)	Actual Settling Zone Area (m2)	Sediment Storage Zone Sed Storage Vol (m3)	Sed Storage depth (approx.) (m)	Spillway Head over spillway (m)	Spillway crest length (m)
		Ds	Vs					
Basin 01	Type B	0.81	395.00	658.00	118.00	0.20	0.300	2.20
Basin 02	Type B	0.81	128.00	214.00	38.00	0.20	0.300	0.70

- NOTES / GENERAL**
- DRAWING TO BE READ IN CONJUNCTION WITH GENERAL NOTES SHEET. REFER DRG. No.C001.
 - DRAWING TO BE READ IN CONJUNCTION WITH EROSION AND SEDIMENT CONTROL NOTES SHEET. REFER DRG. No.C101.
 - REFER COUNCIL SPECIFICATIONS AND STANDARDS PRIOR TO ADOPTION WITH THE FOLLOWING DETAILS.

SEDIMENT BASIN DETAILS
SCALE N.T.S.

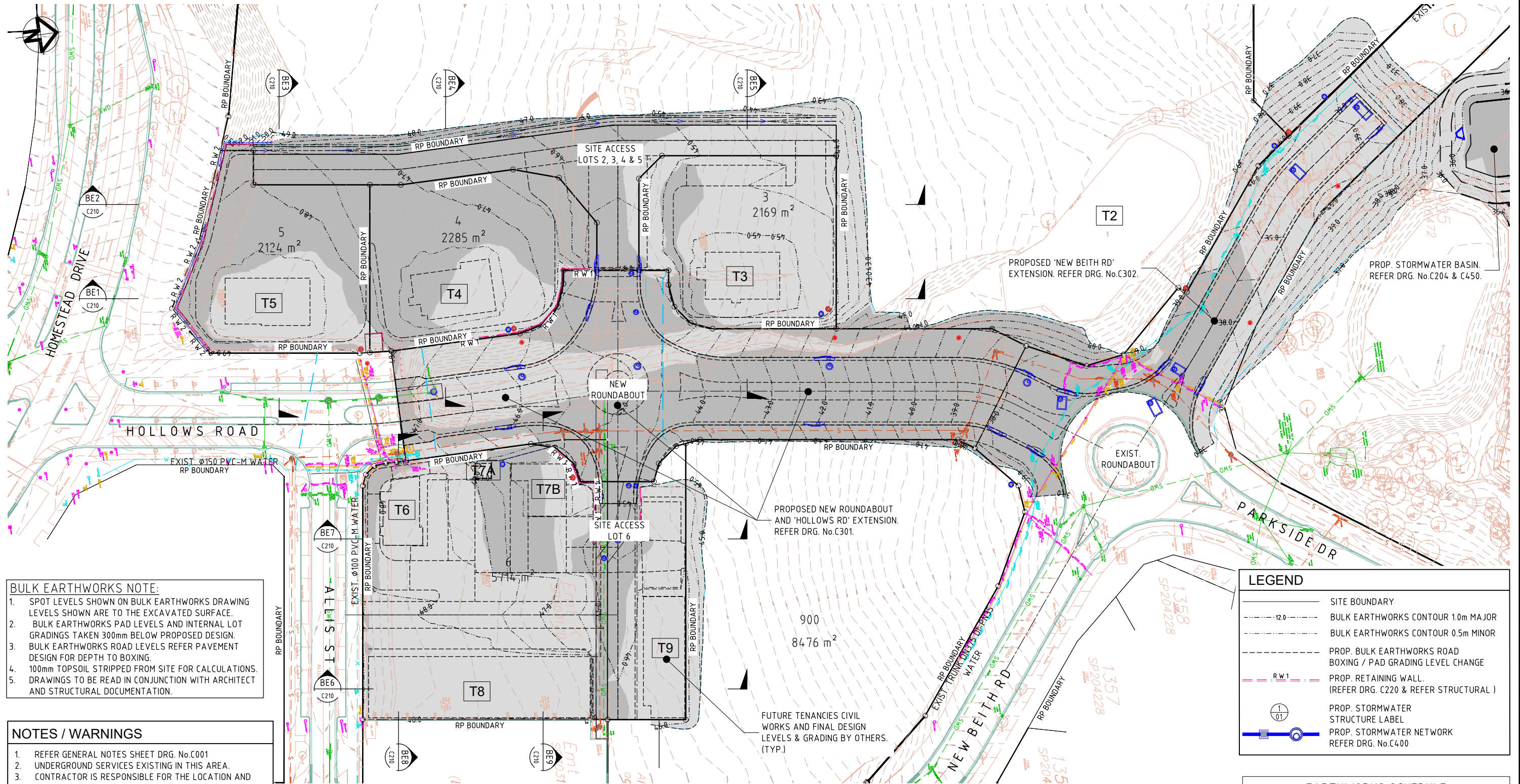


ARCHITECT		SURVEYOR		CLIENT:		APPROVAL ISSUE		DRAWING TITLE:	
		SIMPSON RAYNER SURVEYS SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167 CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS 5/M53 Metroplex Avenue, MURARRIE QLD 4172 Telephone (07) 3899 8105 Fax: (07) 3899 8107 Email: info@srsurveys.com.au		BLUEPOINT PROPERTY		NOT FOR CONSTRUCTION		EROSION AND SEDIMENT CONTROL DETAILS	
SCALE (A1 SHEET)				PROJECT TITLE:		PROJECT TEAM		PROJECT No.	
10 0 10 20 1500 SCALE				COMMERCIAL DEVELOPMENT CNR HOMESTEAD DR/HOLLOWS RD FLAGSTONE QLD (STAGE 1) LOTS 25007 & 25009 ON SP303120		R.P.E.Q No : 24572 DESIGNER TM/GH CHECKER AR APPROVED GH		FE25032	
01 ORIGINAL ISSUE		JD 05/26				Friends Civil Engineering Pty Ltd ABN 40 638 121 132 p. 0415 704 063 & 0422 024 440 e. contact@friendsengineer.com w. friendsengineer.com		C110	
ISSUE DESCRIPTION		BY DATE				BURLEIGH TOWN QLD 4220		01	

100mm on A1 SIZE SHEET

G:\Shared Drives\Projects 2025\FE25032 - 14-22 Wild Mint Drive, Flagstone\CAD\DWG\C110-FE25032 - EROSION AND SEDIMENT CONTROL DETAILS.dwg

FRIENDS CIVIL ENGINEERING IS A REGISTERED TRADEMARK OF FRIENDS CIVIL ENGINEERING PTY LTD. © 2025 FRIENDS CIVIL ENGINEERING PTY LTD. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED, OR TRANSMITTED IN ANY FORM WITHOUT PRIOR WRITTEN CONSENT



- BULK EARTHWORKS NOTE:**
1. SPOT LEVELS SHOWN ON BULK EARTHWORKS DRAWING LEVELS SHOWN ARE TO THE EXCAVATED SURFACE.
 2. BULK EARTHWORKS PAD LEVELS AND INTERNAL LOT GRADINGS TAKEN 300mm BELOW PROPOSED DESIGN.
 3. BULK EARTHWORKS ROAD LEVELS REFER PAVEMENT DESIGN FOR DEPTH TO BOXING.
 4. 100mm TOPSOIL STRIPPED FROM SITE FOR CALCULATIONS.
 5. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECT AND STRUCTURAL DOCUMENTATION.

- NOTES / WARNINGS**
1. REFER GENERAL NOTES SHEET DRG. No.C001
 2. UNDERGROUND SERVICES EXISTING IN THIS AREA.
 3. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.
 4. GEOTECHNICAL ENGINEER IS TO BE ENGAGED BY THE CIVIL CONTRACTOR FOR CONFIRMATION OF SITE SPECIFIC CONDITIONS THAT NEED TO BE CONSIDERED FOR EARTHWORKS BATTERS.
 5. EARTHWORKS CUT AND FILL VOLUMES ARE TAKEN TO THE EXCAVATED SURFACE OF BELOW THE SLAB
 6. EARTHWORKS CUT AND FILL VOLUMES CONSIDER MATERIAL COMPACTED IN PLACE AND DO NOT INCLUDE A BULKING FACTOR FOR TRANSPORTATION.
 7. CONTOURS AND DESIGN LEVELS SHOWN REPRESENT THE FINISHED BULK EARTHWORKS PAD SURFACE LEVELS

BULK EARTHWORKS PLAN
SCALE 1:500

LEGEND - EXISTING SURVEY

- 80 EXIST. SURVEY 0.5m CONTOUR INTERVAL
- SWD EXISTING STORMWATER DRAINAGE
- W EXISTING WATER
- EXISTING SEWER
- E EXISTING UNDERGROUND ELECTRICAL
- OE EXISTING OVERHEAD ELECTRICAL
- T EXISTING TELSTRA / COMMS

CUT	FILL
PROPOSED CUT	PROPOSED FILL

LEGEND

- SITE BOUNDARY
- 12.0 BULK EARTHWORKS CONTOUR 1.0m MAJOR
- BULK EARTHWORKS CONTOUR 0.5m MINOR
- PROP. BULK EARTHWORKS ROAD BOXING / PAD GRADING LEVEL CHANGE
- RW1 PROP. RETAINING WALL. (REFER DRG. C220 & REFER STRUCTURAL)
- 1 01 PROP. STORMWATER STRUCTURE LABEL
- PROP. STORMWATER NETWORK REFER DRG. No.C400

EARTHWORKS SCHEDULE		
CUT OR FILL	ITEM	VOLUME (M³)
FILL	TOTAL FILL	11265
CUT	TOTAL CUT	-10120
TOTAL BALANCE (BANK MEASURE)		1145
VOLUMES ARE BULK EARTHWORKS SURFACE LEVELS TO 100mm STRIPPED BELOW EXISTING SURFACE. A 300mm ALLOWANCE HAS BEEN MADE FOR BUILDING FOOTPRINT AND INTERNAL LOT GRADING. REFER PAVEMENT DESIGN FOR ROAD BOXING DEPTHS. NO ALLOWANCE FOR COMPACTION FACTORS. VOLUMES INCLUDE THE STORMWATER BASIN AND ARE TO THE FINISHED SURFACE LEVEL NO ALLOWANCE HAS BEEN MADE FOR ACCESS DRIVEWAY PAVEMENT, BIO RETENTION AREA, MAINTENANCE ACCESS OR INTERNAL BASIN FLOOR AND BATTERED SURFACE TREATMENT		

ISSUE	DESCRIPTION	BY	DATE
01	ORIGINAL ISSUE	TM	05/26

ARCHITECT

SCALE (A1 SHEET)

10 0 10 20 1500
SCALE

SCALES SHOWN ARE AT A1 SIZE

SURVEYOR

SIMPSON RAYNER SURVEYS
SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167
CADASTRAL LAND SURVEYORS, PLANNERS
AND LAND DEVELOPMENT CONSULTANTS
5/M53 Metroplex Avenue, MURARRIE QLD 4172
Telephone (07) 3899 8105 Fax: (07) 3899 8107
Email: info@srsurveys.com.au

CLIENT:

BLUEPOINT
PROPERTY

PROJECT TITLE:

COMMERCIAL DEVELOPMENT
CNR HOMESTEAD DR/HOLLOWS RD
FLAGSTONE QLD (STAGE 1)
LOTS 25007 & 25009 ON SP303120

APPROVAL ISSUE
NOT FOR CONSTRUCTION

APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD

AR

R.P.E.Q No : 24572	PROJECT TEAM
HEIGHT DATUM GRID	AHD DESIGNER TM/GH
ORIGINAL SHEET SIZE	A1 CHECKER AR
	APPROVED GH

Fe Friends
civil engineering

Friends Civil Engineering Pty Ltd
ABN 40 638 121 132
p. 0415 704 063 & 0422 024 440
e. contact@friendsengineer.com
w. friendsengineer.com

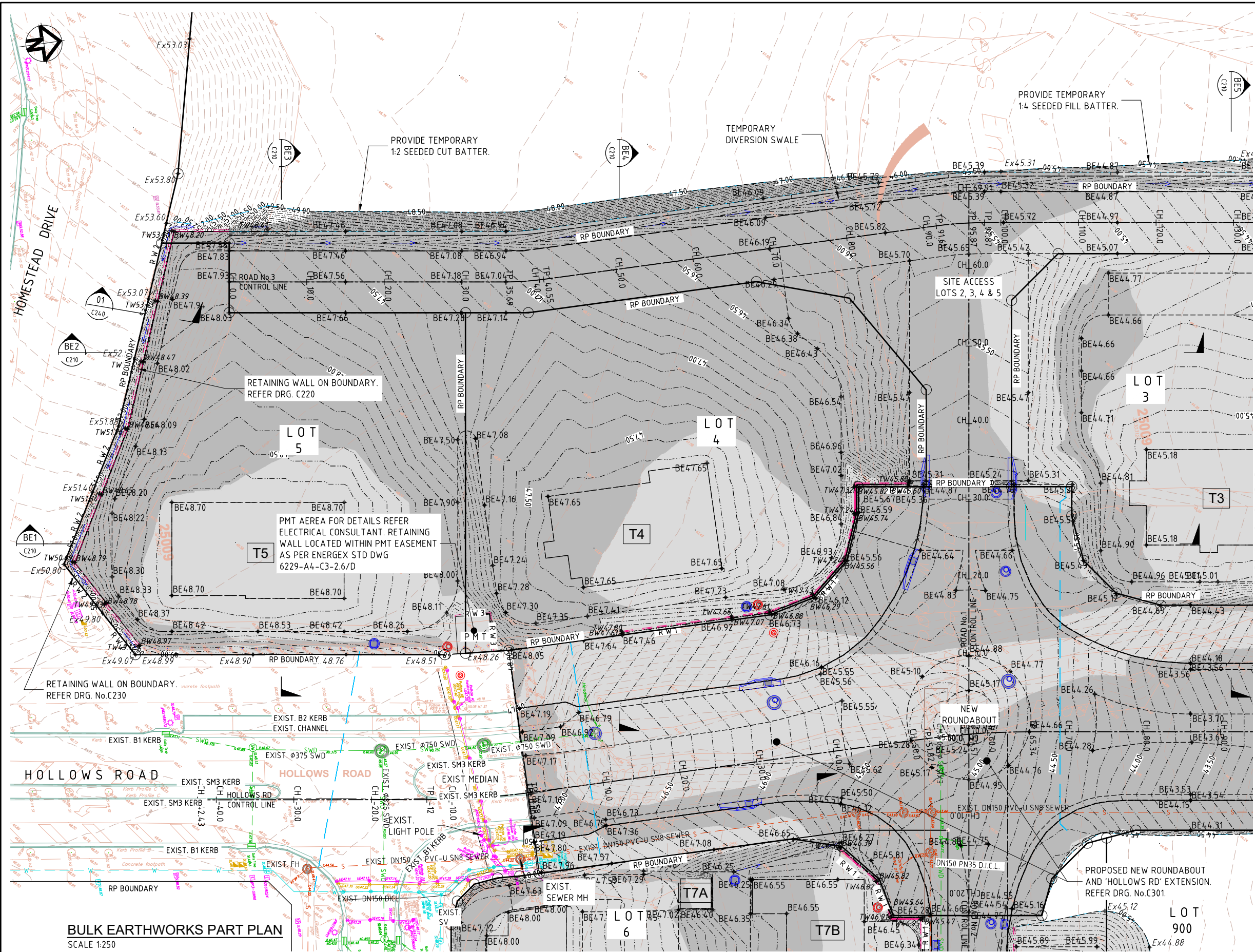
Mail
PO Box 614
BURLEIGH TOWN QLD 4220

FILENAME: C200-FE25032 - BULK EARTHWORKS OVERALL PLANDWG

DRAWING TITLE:

**BULK EARTHWORKS
LAYOUT PLAN**

PROJECT No.	DRAWING No.	ISSUE
FE25032	C200	01



LEGEND

SITE BOUNDARY

BULK EARTHWORKS CONTOUR 0.5m MAJOR

BULK EARTHWORKS CONTOUR 0.1m MINOR

BULK EARTHWORKS SURFACE LEVEL

PROP. TOP OF WALL LEVEL

PROP. BOTTOM OF WALL LEVEL

PROP. BULK EARTHWORKS ROAD BOXING / PAD GRADING LEVEL CHANGE

PROP. RETAINING WALL.
(REFER DRG. C220 & REFER STRUCTURAL)

EXISTING SURFACE LEVEL

PROP. STORMWATER NETWORK
REFER DRG. No.C400

PROP. STORMWATER
STRUCTURE LABEL

LEGEND - EXISTING SURVEY

EXIST. SURVEY 0.5m CONTOUR INTERVAL

EXISTING STORMWATER DRAINAGE

EXISTING WATER

EXISTING SEWER

EXISTING UNDERGROUND ELECTRICAL

EXISTING OVERHEAD ELECTRICAL

EXISTING TELSTRA / COMMS

BULK EARTHWORKS NOTE:

1. SPOT LEVELS SHOWN ON BULK EARTHWORKS DRAWING LEVELS SHOWN ARE TO THE EXCAVATED SURFACE.

2. BULK EARTHWORKS PAD LEVELS AND INTERNAL LOT GRADINGS TAKEN 300mm BELOW PROPOSED DESIGN.

3. BULK EARTHWORKS ROAD LEVELS REFER PAVEMENT DESIGN FOR DEPTH TO BOXING.

4. 100mm TOPSOIL STRIPPED FROM SITE FOR CALCULATIONS.

5. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECT AND STRUCTURAL DOCUMENTATION.

NOTES / WARNINGS

1. REFER GENERAL NOTES SHEET DRG. No.C001

2. UNDERGROUND SERVICES EXISTING IN THIS AREA.

3. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.

4. GEOTECHNICAL ENGINEER IS TO BE ENGAGED BY THE CIVIL CONTRACTOR FOR CONFIRMATION OF SITE SPECIFIC CONDITIONS THAT NEED TO BE CONSIDERED FOR EARTHWORKS BATTERS.

5. EARTHWORKS CUT AND FILL VOLUMES ARE TAKEN TO THE EXCAVATED SURFACE OF BELOW THE SLAB

6. EARTHWORKS CUT AND FILL VOLUMES CONSIDER MATERIAL COMPACTED IN PLACE AND DO NOT INCLUDE A BULKING FACTOR FOR TRANSPORTATION.

7. CONTOURS AND DESIGN LEVELS SHOWN REPRESENT THE FINISHED BULK EARTHWORKS PAD SURFACE LEVELS

CUT

FILL

PROPOSED CUT

PROPOSED FILL

BULK EARTHWORKS PART PLAN
SCALE 1:250

ARCHITECT

SCALE (A1 SHEET)

01 ORIGINAL ISSUE

ISSUE

TM

05/26

BY

DATE

SURVEYOR

SIMPSON RAYNER SURVEYS

SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167

CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS

5/M53 Metroplex Avenue, MURARRIE QLD 4172

Telephone (07) 3899 8105 Fax: (07) 3899 8107

Email: info@srsurveys.com.au

CLIENT:

BLUEPOINT PROPERTY

PROJECT TITLE:

COMMERCIAL DEVELOPMENT
CNR HOMESTEAD DR/HOLLOWS RD
FLAGSTONE QLD (STAGE 1)
LOTS 25007 & 25009 ON SP303120

APPROVAL ISSUE
NOT FOR CONSTRUCTION

APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD

AR

R.P.E.Q. No : 24572

PROJECT TEAM

DESIGNER

TM/GH

CHECKER

AR

APPROVED

GH

HEIGHT DATUM

AHD

GRID

MGA

ORIGINAL SHEET SIZE

A1

Fe Friends
civil engineering

Friends Civil Engineering Pty Ltd
ABN 40 638 121 132
p. 0415 704 063 & 0422 024 440
e. contact@friendsengineer.com
w. friendsengineer.com

PO Box 614
BURLEIGH TOWN QLD 4220

FILENAME: C201-FE25032 - BULK EARTHWORKS PART PLAN SHEET 1 OF 4.DWG

DRAWING TITLE:

BULK EARTHWORKS
LAYOUT PLAN
1 OF 4

PROJECT No.

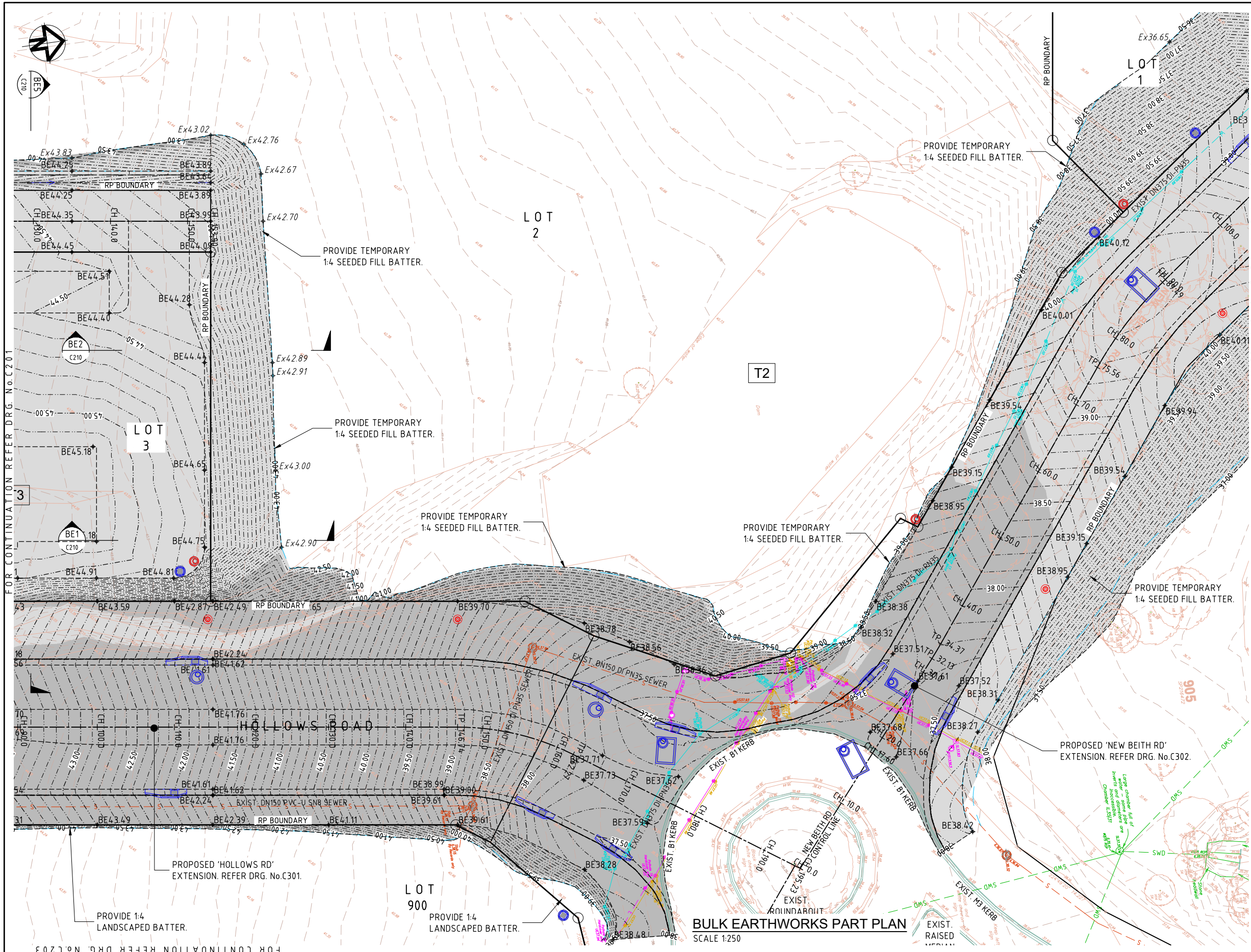
DRAWING No.

ISSUE

FE25032

C201

01



LEGEND

- SITE BOUNDARY
- BULK EARTHWORKS CONTOUR 0.5m MAJOR
- BULK EARTHWORKS CONTOUR 0.1m MINOR
- BULK EARTHWORKS SURFACE LEVEL
- PROP. TOP OF WALL LEVEL
- PROP. BOTTOM OF WALL LEVEL
- PROP. BULK EARTHWORKS ROAD BOXING / PAD GRADING LEVEL CHANGE
- PROP. RETAINING WALL. (REFER DRG. C220 & REFER STRUCTURAL)
- EXISTING SURFACE LEVEL
- PROP. STORMWATER NETWORK REFER DRG. No.C400
- PROP. STORMWATER STRUCTURE LABEL

LEGEND - EXISTING SURVEY

- EXIST. SURVEY 0.5m CONTOUR INTERVAL
- EXISTING STORMWATER DRAINAGE
- EXISTING WATER
- EXISTING SEWER
- EXISTING UNDERGROUND ELECTRICAL
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TELSTRA / COMMS

BULK EARTHWORKS NOTE:

- SPOT LEVELS SHOWN ON BULK EARTHWORKS DRAWING LEVELS SHOWN ARE TO THE EXCAVATED SURFACE.
- BULK EARTHWORKS PAD LEVELS AND INTERNAL LOT GRADINGS TAKEN 300mm BELOW PROPOSED DESIGN.
- BULK EARTHWORKS ROAD LEVELS REFER PAVEMENT DESIGN FOR DEPTH TO BOXING.
- 100mm TOPSOIL STRIPPED FROM SITE FOR CALCULATIONS.
- DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECT AND STRUCTURAL DOCUMENTATION.

NOTES / WARNINGS

- REFER GENERAL NOTES SHEET DRG. No.C001
- UNDERGROUND SERVICES EXISTING IN THIS AREA.
- CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.
- GEOTECHNICAL ENGINEER IS TO BE ENGAGED BY THE CIVIL CONTRACTOR FOR CONFIRMATION OF SITE SPECIFIC CONDITIONS THAT NEED TO BE CONSIDERED FOR EARTHWORKS BATTERS.
- EARTHWORKS CUT AND FILL VOLUMES ARE TAKEN TO THE EXCAVATED SURFACE OF BELOW THE SLAB
- EARTHWORKS CUT AND FILL VOLUMES CONSIDER MATERIAL COMPACTED IN PLACE AND DO NOT INCLUDE A BULKING FACTOR FOR TRANSPORTATION.
- CONTOURS AND DESIGN LEVELS SHOWN REPRESENT THE FINISHED BULK EARTHWORKS PAD SURFACE LEVELS

CUT	FILL
PROPOSED CUT	PROPOSED FILL

01	ORIGINAL ISSUE	TM	05/26
ISSUE	DESCRIPTION	BY	DATE

ARCHITECT

SCALE (A1 SHEET)

5 0 5 10 1250

SCALE

SCALES SHOWN ARE AT A1 SIZE

SURVEYOR

SIMPSON RAYNER SURVEYS

SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167

CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS

5/M53 Metroplex Avenue, MURARRIE QLD 4172

Telephone (07) 3899 8105 Fax: (07) 3899 8107

Email: info@srsurveys.com.au

CLIENT:

BLUEPOINT PROPERTY

PROJECT TITLE:

COMMERCIAL DEVELOPMENT

CNR HOMESTEAD DR/HOLLOWS RD

FLAGSTONE QLD (STAGE 1)

LOTS 25007 & 25009 ON SP303120

APPROVAL ISSUE

NOT FOR CONSTRUCTION

APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD

AR

R.P.E.Q No : 24572	PROJECT TEAM
HEIGHT DATUM	AHD
DESIGNER	TM/GH
GRID	MGA
CHECKER	AR
APPROVED	GH

Fe Friends

civil engineering

Friends Civil Engineering Pty Ltd

ABN 40 638 121 132

p. 0415 704 063 & 0422 024 440

e. contact@friendsengineer.com

w. friendsengineer.com

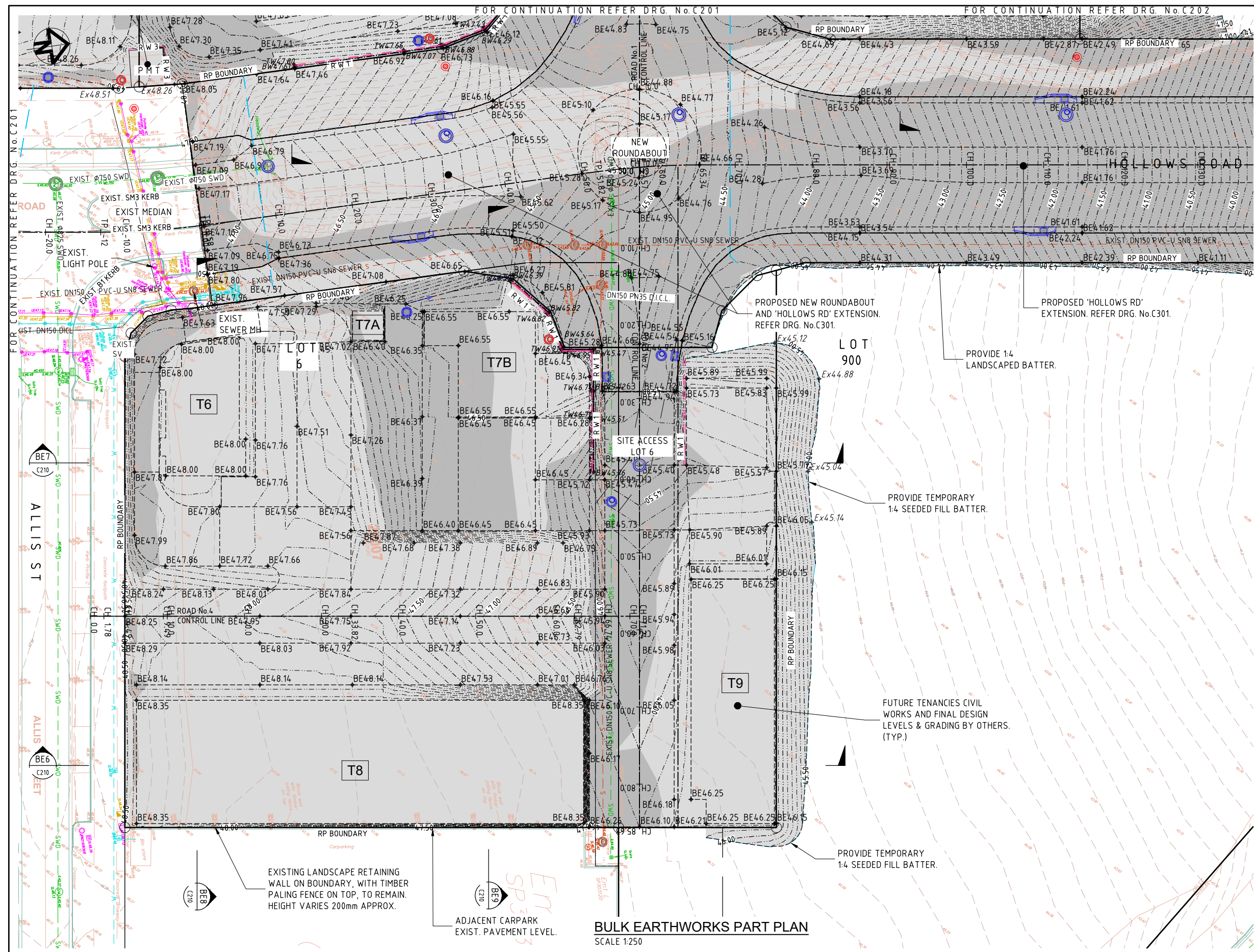
FILENAME: C202-FE25032 - BULK EARTHWORKS PART PLAN SHEET 2 OF 4.DWG

DRAWING TITLE:

BULK EARTHWORKS LAYOUT PLAN

2 OF 4

PROJECT No.	DRAWING No.	ISSUE
FE25032	C202	01



LEGEND

	SITE BOUNDARY
	BULK EARTHWORKS CONTOUR 0.5m MAJOR
	BULK EARTHWORKS CONTOUR 0.1m MINOR
 ♦BE12.95	BULK EARTHWORKS SURFACE LEVEL
 ♦TW32.78	PROP. TOP OF WALL LEVEL
 ♦BW30.75	PROP. BOTTOM OF WALL LEVEL
	PROP. BULK EARTHWORKS ROAD BOXING / PAD GRADING LEVEL CHANGE
	PROP. RETAINING WALL. (REFER DRG. C220 & REFER STRUCTURAL)
+30.91 ♦Ex13.250	EXISTING SURFACE LEVEL
	PROP. STORMWATER NETWORK REFER DRG. No.C400
	PROP. STORMWATER STRUCTURE LABEL

LEGEND - EXISTING SURVEY

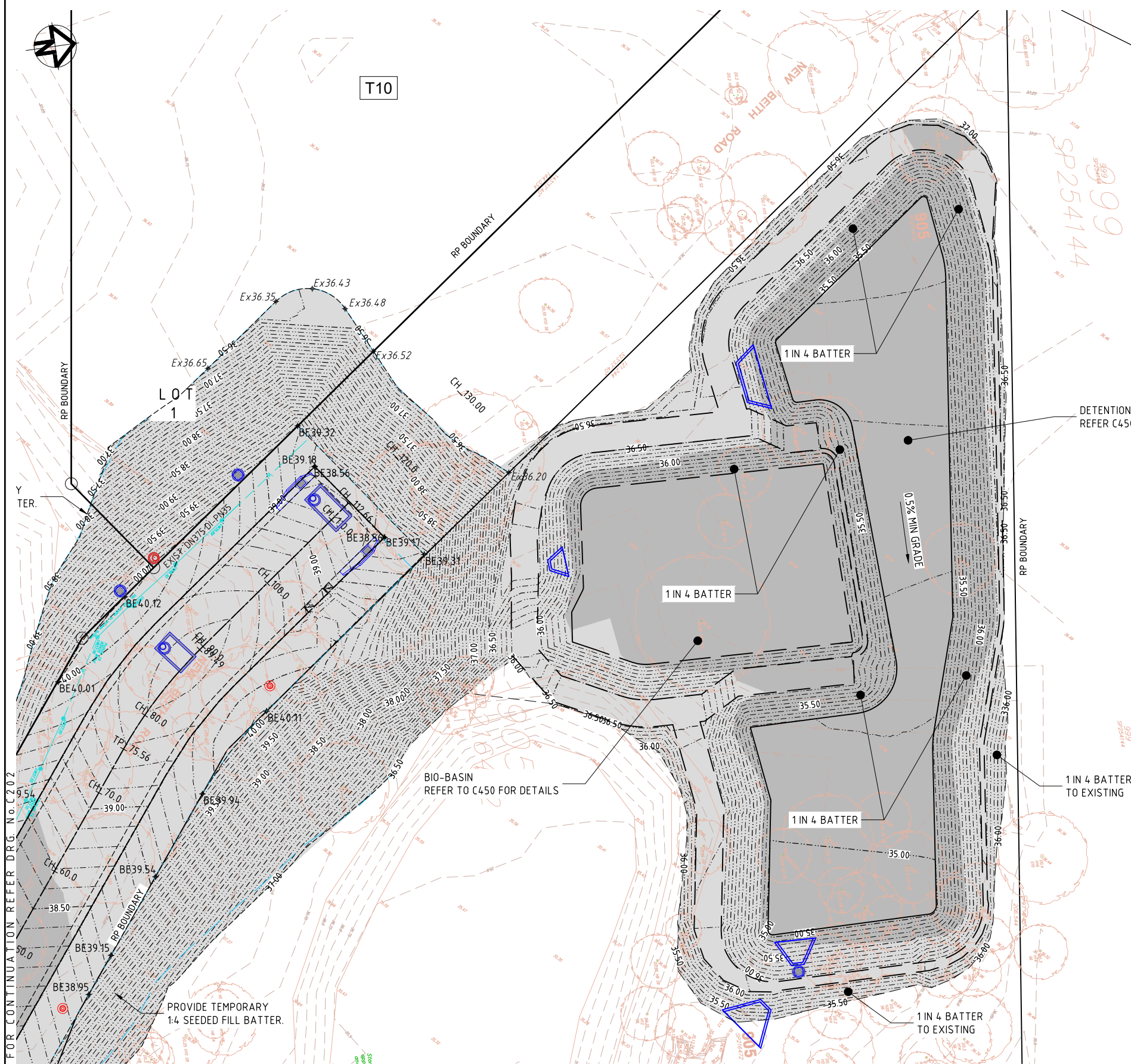
	80		EXIST. SURVEY 0.5m CONTOUR INTERVAL
	SWD		EXISTING STORMWATER DRAINAGE
	W		EXISTING WATER
			EXISTING SEWER
	E		EXISTING UNDERGROUND ELECTRICAL
	OE		EXISTING OVERHEAD ELECTRICAL
	T		EXISTING TELSTRA / COMMS

- | | |
|---|--|
| <p>BULK EARTHWORKS NOTE:</p> <ol style="list-style-type: none"> 1. BULK EARTHWORKS LEVELS SHOWN "BE###.###" ARE BULK EARTHWORKS LEVELS. 2. "BE ###.###" BULK EARTHWORKS PAD LEVELS AND INTERNAL LOT GRADINGS TAKEN 300mm BELOW PROPOSED DESIGN. 3. "BE ###.###" BULK EARTHWORKS ROAD LEVELS REFER PAVEMENT DESIGN FOR DEPTH TO BOXING. 4. 100mm TOPSOIL STRIPPED FROM SITE FOR CALCULATIONS. 5. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECT AND STRUCTURAL DOCUMENTATION. | |
|---|--|

- ## NOTES / WARNINGS
1. REFER GENERAL NOTES SHEET DRG. No.C001
 2. UNDERGROUND SERVICES EXISTING IN THIS AREA.
 3. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.
 4. GEOTECHNICAL ENGINEER IS TO BE ENGAGED BY THE CIVIL CONTRACTOR FOR CONFIRMATION OF SITE SPECIFIC CONDITIONS THAT NEED TO BE CONSIDERED FOR EARTHWORKS BATTERS.
 5. EARTHWORKS CUT AND FILL VOLUMES ARE TAKEN TO THE EXCAVATED SURFACE OF BELOW THE SLAB
 6. EARTHWORKS CUT AND FILL VOLUMES CONSIDER MATERIAL COMPACTED IN PLACE AND DO NOT INCLUDE A BULKING FACTOR FOR TRANSPORTATION.
 7. CONTOURS AND DESIGN LEVELS SHOWN REPRESENT THE FINISHED BULK EARTHWORKS PAD SURFACE LEVELS

CUT	FILL
 PROPOSED CUT	 PROPOSED FILL

				ARCHITECT		SURVEYOR		CLIENT:		APPROVAL ISSUE NOT FOR CONSTRUCTION		Fe Friends civil engineering		DRAWING TITLE:	
						SIMPSON RAYNER SURVEYS SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167 CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS 5/M53 Metropolex Avenue, MURARRIE QLD 4172 Telephone (07) 3899 8105 Fax. (07) 3899 8107 Email: info@srsurveys.com.au		BLUEPOINT PROPERTY		APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD <i>AR</i>		Friends Civil Engineering Pty Ltd ABN 40 638 121 132 p. 0415 704 063 & 0422 024 440 e. contact@friendsengineer.com w. friendsengineer.com		BULK EARTHWORKS LAYOUT PLAN 3 OF 4	
				SCALE (A1 SHEET)				PROJECT TITLE:		R.P.E.Q. No : 24572 HEIGHT DATUM GRID ORIGINAL SHEET SIZE		PROJECT TEAM DESIGNER CHECKER APPROVED		Mail PO Box 614 BURLEIGH TOWN QLD 4220	
								CNR HOMESTEAD DR/HOLLOWS RD FLAGSTONE QLD (STAGE 1) LOTS 25007 & 25009 ON SP303120		TM/GH AR GH		FILENAME: C263-FE25032 - BULK EARTHWORKS PART PLAN SHEET 3 OF 4.DWG		PROJECT No. DRAWING No. ISSUE	
01 ORIGINAL ISSUE TM 05/26														FE25032 C203 01	
ISSUE DESCRIPTION BY DATE				SCALES SHOWN ARE AT A1 SIZE											



STORMWATER BASIN BULK EARTHWORKS

DESIGN & CONSTRUCT NOTE:

1. SURFACE LEVELS SHOWN FOR THE STORMWATER BASIN ARE FINISHED SURFACE LEVELS.
2. NO ALLOWANCE HAS BEEN MADE FOR ACCESS DRIVEWAY PAVEMENT, BIO RETENTION FILTER AREA, BASIN MAINTENANCE ACCESS ABOVE DETENTION OR INTERNAL BASIN FLOOR AND BATTERED SURFACES INTERNAL AND EXTERNAL TREATMENT

LEGEND

- SITE BOUNDARY
- BULK EARTHWORKS CONTOUR 0.5m MAJOR
- BULK EARTHWORKS CONTOUR 0.1m MINOR
- BULK EARTHWORKS SURFACE LEVEL
- PROP. TOP OF WALL LEVEL
- PROP. BOTTOM OF WALL LEVEL
- PROP. BULK EARTHWORKS ROAD BOXING / PAD GRADING LEVEL CHANGE
- PROP. RETAINING WALL. (REFER DRG. C220 & REFER STRUCTURAL)
- EXISTING SURFACE LEVEL
- PROP. STORMWATER NETWORK REFER DRG. No.C400
- PROP. STORMWATER STRUCTURE LABEL

LEGEND - EXISTING SURVEY

- EXIST. SURVEY 0.5m CONTOUR INTERVAL
- EXISTING STORMWATER DRAINAGE
- EXISTING WATER
- EXISTING SEWER
- EXISTING UNDERGROUND ELECTRICAL
- EXISTING OVERHEAD ELECTRICAL
- EXISTING TELSTRA / COMMS

BULK EARTHWORKS NOTE:

1. SPOT LEVELS SHOWN ON BULK EARTHWORKS DRAWING LEVELS SHOWN ARE TO THE EXCAVATED SURFACE.
2. BULK EARTHWORKS PAD LEVELS AND INTERNAL LOT GRADINGS TAKEN 300mm BELOW PROPOSED DESIGN.
3. BULK EARTHWORKS ROAD LEVELS REFER PAVEMENT DESIGN FOR DEPTH TO BOXING.
4. 100mm TOPSOIL STRIPPED FROM SITE FOR CALCULATIONS.
5. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECT AND STRUCTURAL DOCUMENTATION.

NOTES / WARNINGS

1. REFER GENERAL NOTES SHEET DRG. No.C001
2. UNDERGROUND SERVICES EXISTING IN THIS AREA.
3. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.
4. GEOTECHNICAL ENGINEER IS TO BE ENGAGED BY THE CIVIL CONTRACTOR FOR CONFIRMATION OF SITE SPECIFIC CONDITIONS THAT NEED TO BE CONSIDERED FOR EARTHWORKS BATTERS.
5. EARTHWORKS CUT AND FILL VOLUMES ARE TAKEN TO THE EXCAVATED SURFACE OF BELOW THE SLAB
6. EARTHWORKS CUT AND FILL VOLUMES CONSIDER MATERIAL COMPACTED IN PLACE AND DO NOT INCLUDE A BULKING FACTOR FOR TRANSPORTATION.
7. CONTOURS AND DESIGN LEVELS SHOWN REPRESENT THE FINISHED BULK EARTHWORKS PAD SURFACE LEVELS

CUT

FILL

PROPOSED CUT

PROPOSED FILL

BULK EARTHWORKS PART PLAN

SCALE 1:250

ARCHITECT

SURVEYOR

CLIENT:

APPROVAL ISSUE
NOT FOR CONSTRUCTION

Fe Friends
civil engineering

DRAWING TITLE:

BULK EARTHWORKS
LAYOUT PLAN
4 OF 4

PROJECT No.	DRAWING No.	ISSUE
FE25032	C204	01

SIMPSON RAYNER SURVEYS
SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167
CADASTRAL LAND SURVEYORS, PLANNERS
AND LAND DEVELOPMENT CONSULTANTS
5/M53 Metroplex Avenue, MURARRIE QLD 4172
Telephone (07) 3899 8105 Fax: (07) 3899 8107
Email: info@srsurveys.com.au

PROJECT TITLE:
COMMERCIAL DEVELOPMENT
CNR HOMESTEAD DR/HOLLOWS RD
FLAGSTONE QLD (STAGE 1)
LOTS 25007 & 25009 ON SP303120

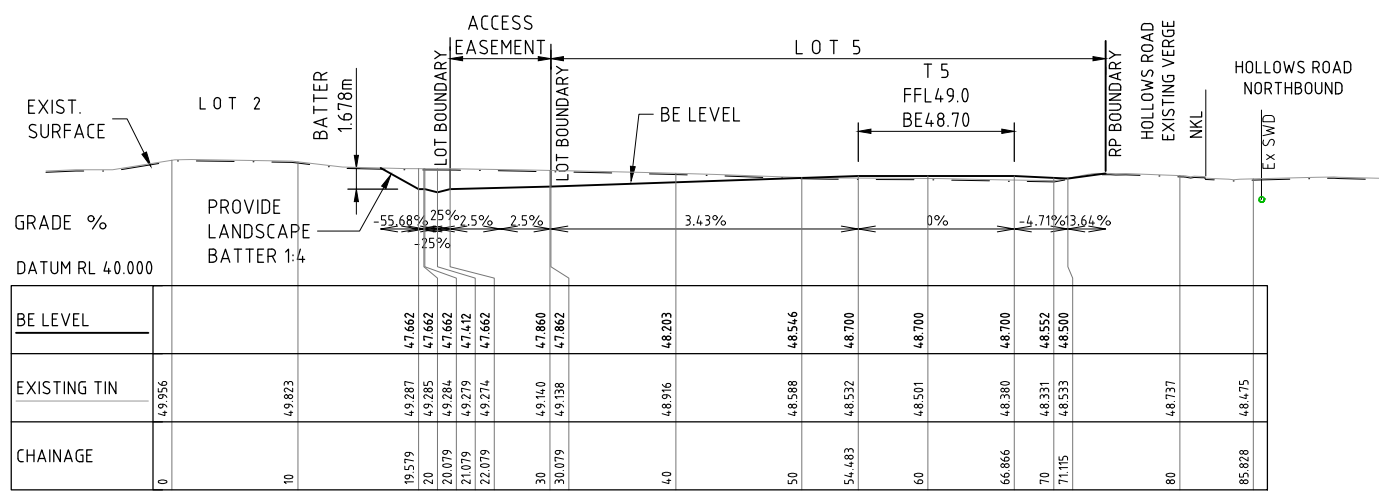
BLUEPOINT
PROPERTY

R.P.E.Q No : 24572	PROJECT TEAM
HEIGHT DATUM	AHD
DESIGNER	TM/GH
GRID	MGA
CHECKER	AR
APPROVED	GH

Friends Civil Engineering Pty Ltd
ABN 40 638 121 132
p. 0415 704 063 & 0422 024 440
e. contact@friendsengineer.com
w. friendsengineer.com

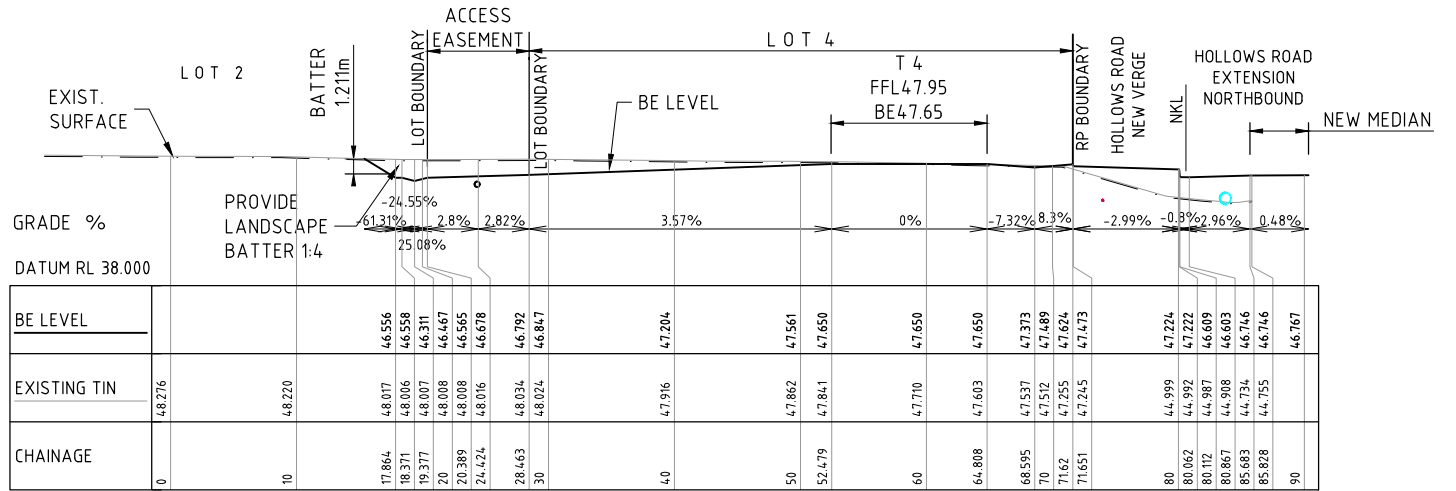
Mail
PO Box 614
BURLEIGH TOWN QLD 4220

FILENAME: C204-FE25032 - BULK EARTHWORKS PART PLAN SHEET 4 OF 4.DWG



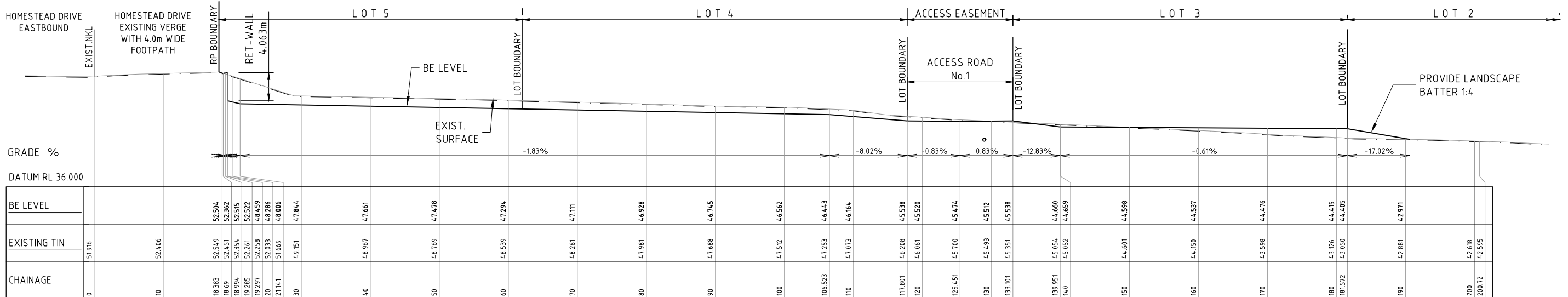
BULK EARTHWORKS SECTION - SECTION BE3

A1 HORZ SCALE 1:300
A1 VERT SCALE 1:300



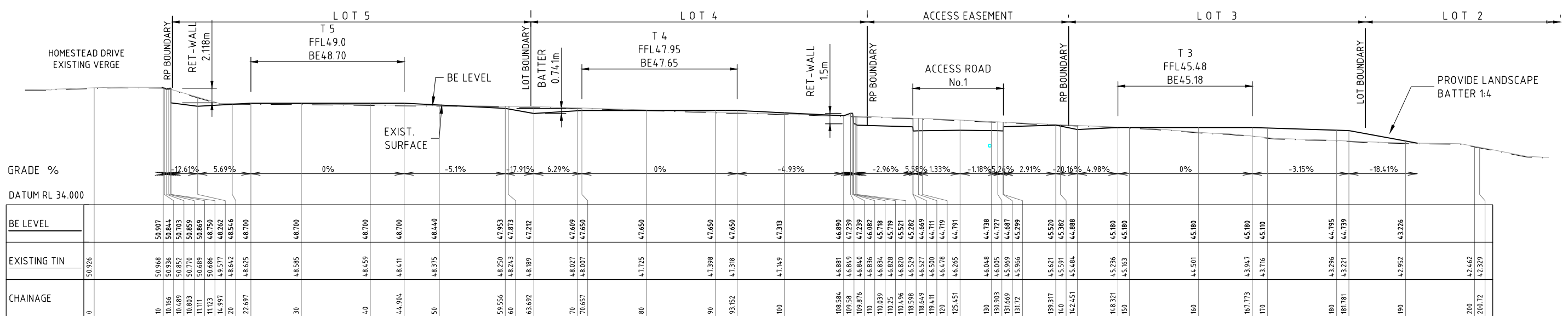
BULK EARTHWORKS SECTION - SECTION BE4

A1 HORZ SCALE 1:300
A1 VERT SCALE 1:300



BULK EARTHWORKS SECTION - SECTION BE2

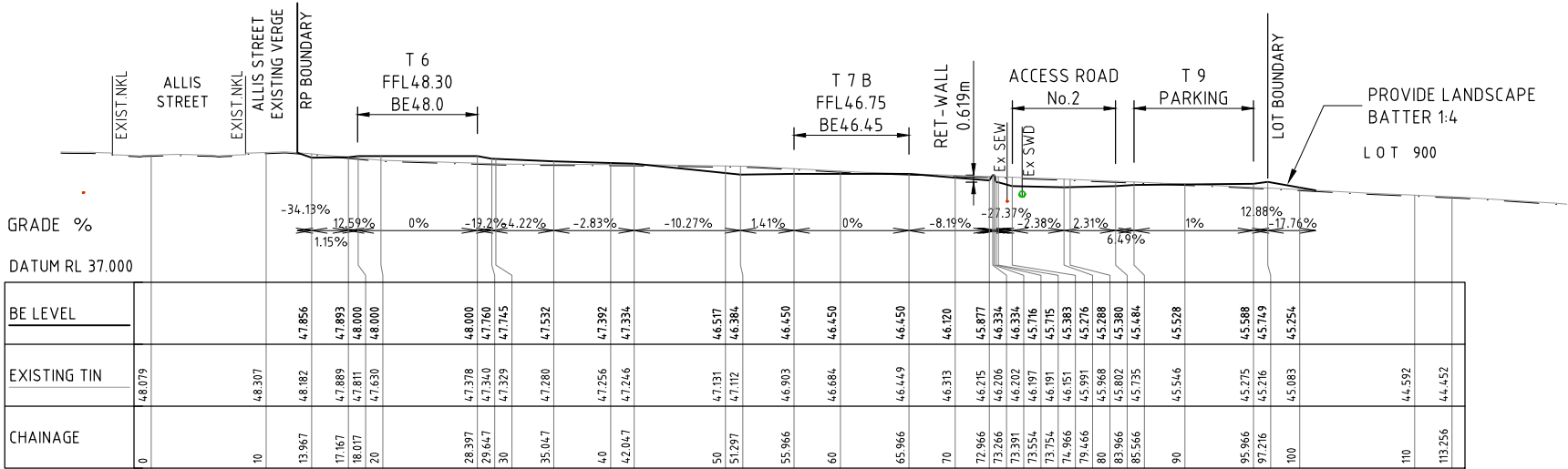
A1 HORZ SCALE 1:300
A1 VERT SCALE 1:300



BULK EARTHWORKS SECTION - SECTION BE1

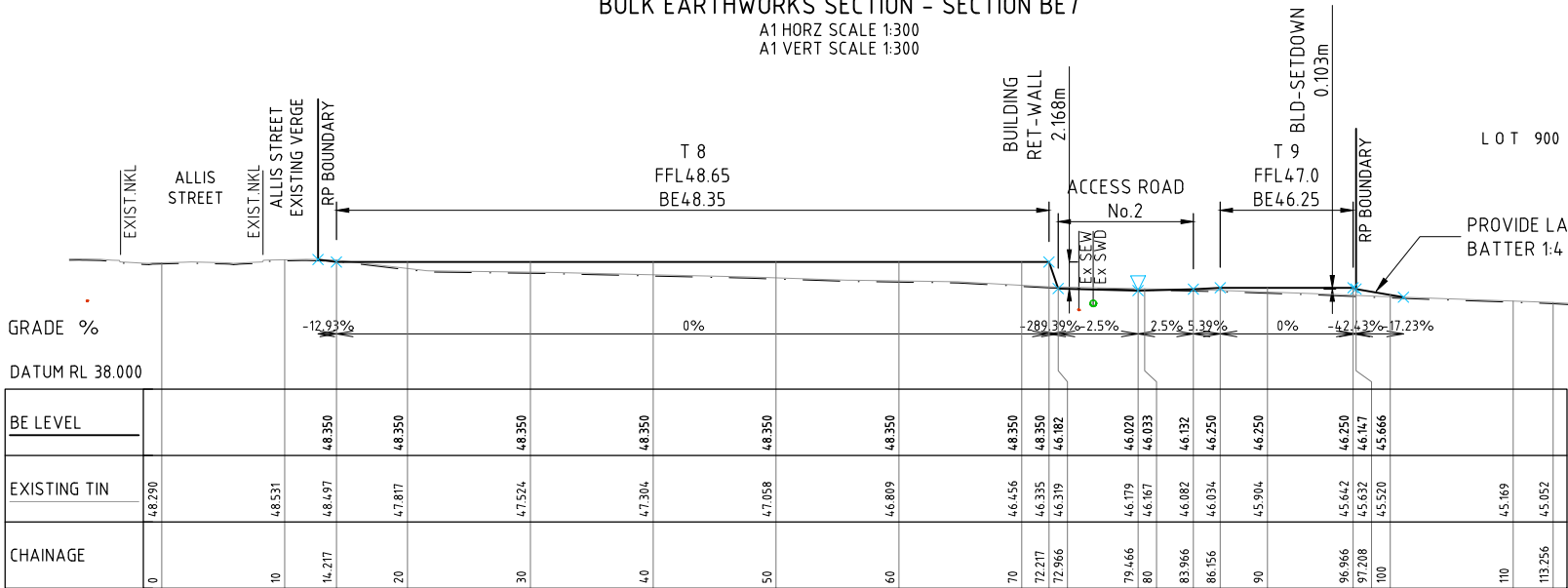
A1 HORZ SCALE 1:300
A1 VERT SCALE 1:300

01 ORIGINAL ISSUE ISSUE DESCRIPTION		ARCHITECT SCALE (A1 SHEET) 5 0 5 10 15 1:300 SCALES SHOWN ARE AT A1 SIZE	SURVEYOR SIMPSON RAYNER SURVEYS SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167 CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS 5/MS3 Metroplex Avenue, MURARRIE QLD 4172 Telephone (07) 3899 8105 Fax: (07) 3899 8107 Email: info@srsurveys.com.au	CLIENT: BLUEPOINT PROPERTY PROJECT TITLE: COMMERCIAL DEVELOPMENT CNR HOMESTEAD DR/HOLLOWS RD FLAGSTONE QLD (STAGE 1) LOTS 25007 & 25009 ON SP303120	APPROVAL ISSUE NOT FOR CONSTRUCTION APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD AR <table><tr><td>R.P.E.Q No : 24572</td><td>PROJECT TEAM</td></tr><tr><td>HEIGHT DATUM</td><td>AHD</td></tr><tr><td>DESIGNER</td><td>TM/GH</td></tr><tr><td>GRID</td><td>MGA</td></tr><tr><td>CHECKER</td><td>AR</td></tr><tr><td>APPROVED</td><td>GH</td></tr></table> ORIGINAL SHEET SIZE: A1	R.P.E.Q No : 24572	PROJECT TEAM	HEIGHT DATUM	AHD	DESIGNER	TM/GH	GRID	MGA	CHECKER	AR	APPROVED	GH	Fe Friends civil engineering Friends Civil Engineering Pty Ltd ABN 40 638 121 132 p. 0415 704 063 & 0422 024 440 e. contact@friendsengineer.com w. friendsengineer.com Mail PO Box 614 BURLEIGH TOWN QLD 4220 FILENAME: C210-FE25032 - BULK EARTHWORKS SECTIONS 1 OF 4 DWG	DRAWING TITLE: BULK EARTHWORKS SITE SECTIONS 1 OF 2 <table><tr><td>PROJECT No.</td><td>DRAWING No.</td><td>ISSUE</td></tr><tr><td>FE25032</td><td>C210</td><td>01</td></tr></table>	PROJECT No.	DRAWING No.	ISSUE	FE25032	C210	01
R.P.E.Q No : 24572	PROJECT TEAM																								
HEIGHT DATUM	AHD																								
DESIGNER	TM/GH																								
GRID	MGA																								
CHECKER	AR																								
APPROVED	GH																								
PROJECT No.	DRAWING No.	ISSUE																							
FE25032	C210	01																							



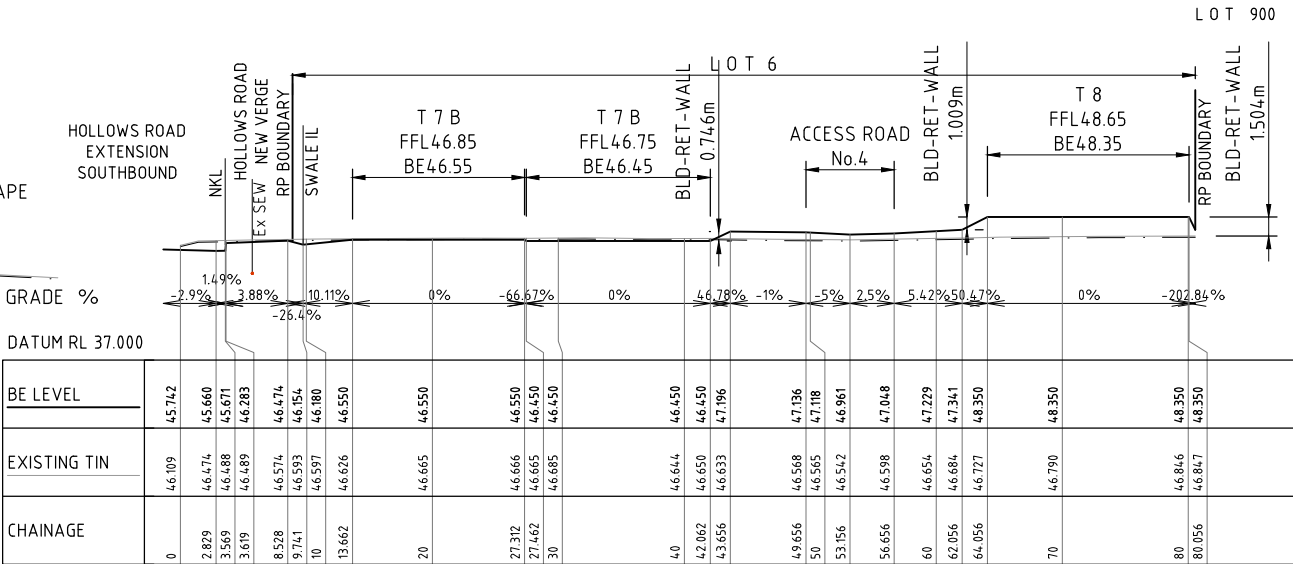
BULK EARTHWORKS SECTION - SECTION BE7

A1 HORZ SCALE 1:300
A1 VERT SCALE 1:300



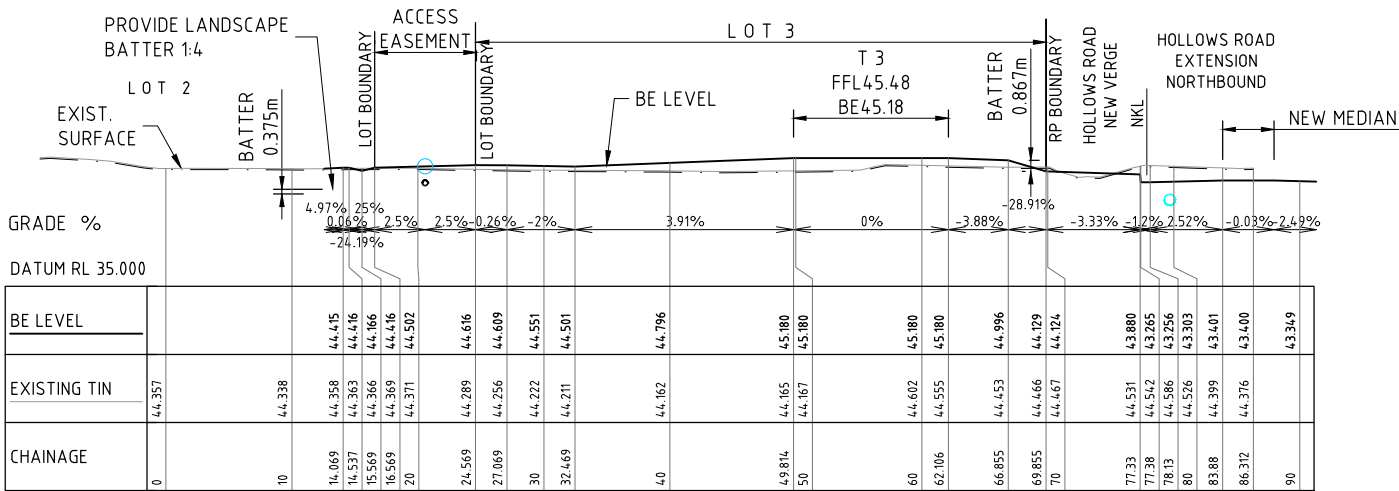
BULK EARTHWORKS SECTION - SECTION BE6

A1 HORZ SCALE 1:300
A1 VERT SCALE 1:300



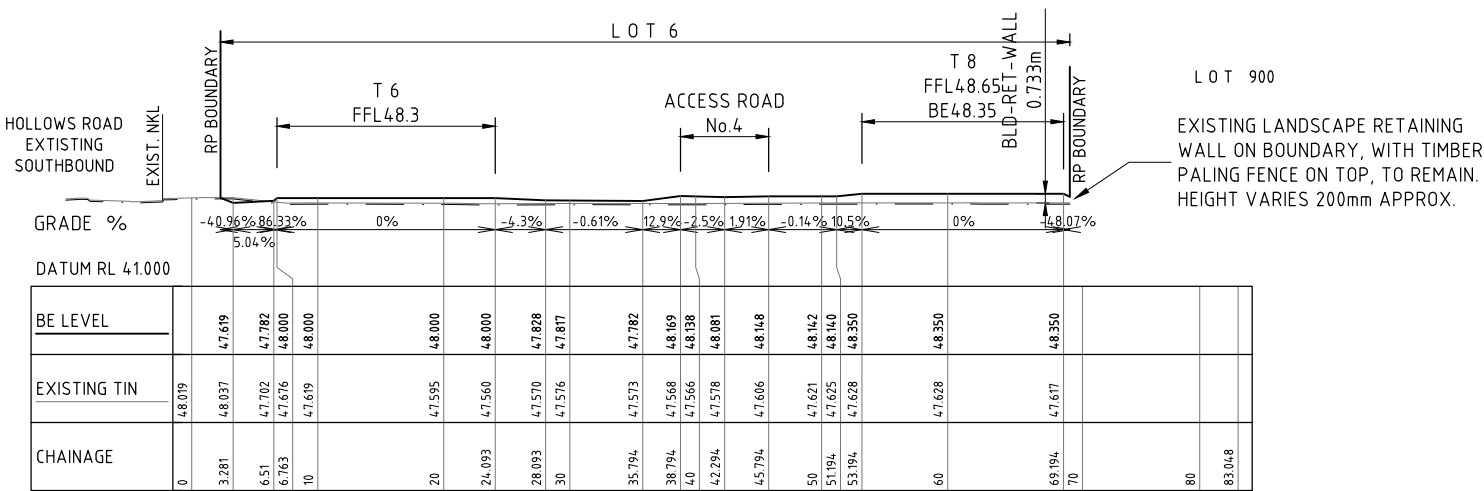
BULK EARTHWORKS SECTION - SECTION BE9

A1 HORZ SCALE 1:300
A1 VERT SCALE 1:300



BULK EARTHWORKS SECTION - SECTION BE5

A1 HORZ SCALE 1:300
A1 VERT SCALE 1:300



BULK EARTHWORKS SECTION - SECTION BE8

A1 HORZ SCALE 1:300
A1 VERT SCALE 1:300

01 ORIGINAL ISSUE

TM 05/26

ISSUE

DESCRIPTION

BY

DATE

ARCHITECT

SCALE (A1 SHEET)

5 0 5 10 15 1:300

SCALES SHOWN ARE AT A1 SIZE

SURVEYOR

SIMPSON RAYNER SURVEYS
SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167
CADASTRAL LAND SURVEYORS, PLANNERS
AND LAND DEVELOPMENT CONSULTANTS
5/M53 Metroplex Avenue, MURARRIE QLD 4172
Telephone (07) 3899 8105 Fax: (07) 3899 8107
Email: info@srsurveys.com.au

CLIENT:

BLUEPOINT
PROPERTY

PROJECT TITLE:

COMMERCIAL DEVELOPMENT
CNR HOMESTEAD DR/HOLLOWES RD
FLAGSTONE QLD (STAGE 1)
LOTS 25007 & 25009 ON SP303120

APPROVAL ISSUE
NOT FOR CONSTRUCTION

APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD

AR

R.P.E.Q No : 24572

PROJECT TEAM

HEIGHT DATUM AHD

DESIGNER TM/GH

GRID MGA

CHECKER AR

ORIGINAL SHEET SIZE A1

APPROVED GH

Fe Friends
civil engineering

Friends Civil Engineering Pty Ltd
ABN 40 638 121 132
p. 0415 704 063 & 0422 024 440
e. contact@friendsengineer.com
w. friendsengineer.com

Mail PO Box 614
BURLEIGH TOWN QLD 4220

FILENAME: C211-FE25032 - BULK EARTHWORKS SECTIONS 2 OF 4 DWG

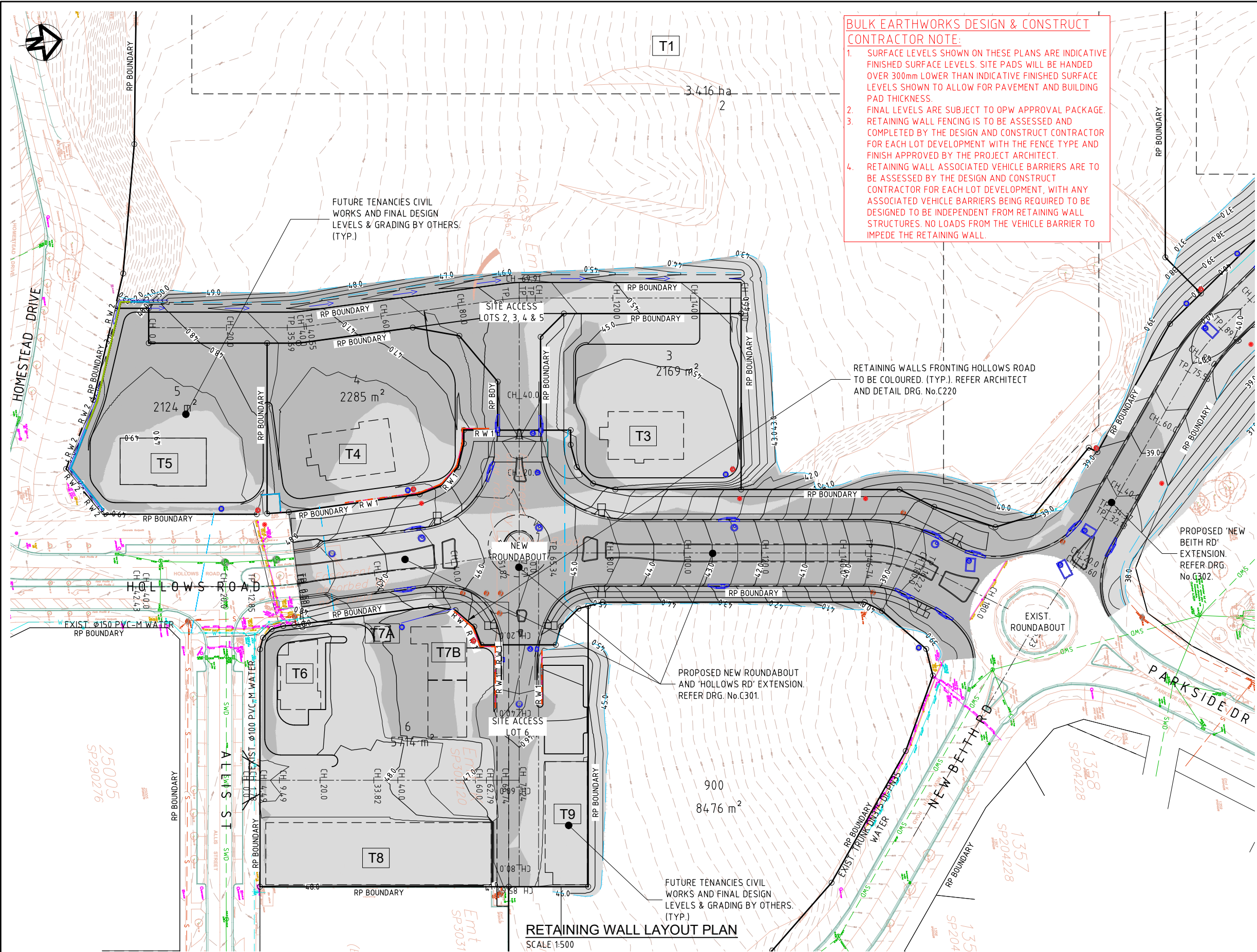
DRAWING TITLE:

BULK EARTHWORKS
SITE SECTIONS
2 OF 2

PROJECT No. FE25032

DRAWING No. C211

ISSUE 01



BULK EARTHWORKS DESIGN & CONSTRUCT CONTRACTOR NOTE:

- SURFACE LEVELS SHOWN ON THESE PLANS ARE INDICATIVE FINISHED SURFACE LEVELS. SITE PADS WILL BE HANDED OVER 300mm LOWER THAN INDICATIVE FINISHED SURFACE LEVELS SHOWN TO ALLOW FOR PAVEMENT AND BUILDING PAD THICKNESS.
- FINAL LEVELS ARE SUBJECT TO OPW APPROVAL PACKAGE.
- RETAINING WALL FENCING IS TO BE ASSESSED AND COMPLETED BY THE DESIGN AND CONSTRUCT CONTRACTOR FOR EACH LOT DEVELOPMENT WITH THE FENCE TYPE AND FINISH APPROVED BY THE PROJECT ARCHITECT.
- RETAINING WALL ASSOCIATED VEHICLE BARRIERS ARE TO BE ASSESSED BY THE DESIGN AND CONSTRUCT CONTRACTOR FOR EACH LOT DEVELOPMENT, WITH ANY ASSOCIATED VEHICLE BARRIERS BEING REQUIRED TO BE DESIGNED TO BE INDEPENDENT FROM RETAINING WALL STRUCTURES. NO LOADS FROM THE VEHICLE BARRIER TO IMPEDE THE RETAINING WALL.

- NOTES / WARNINGS**
- REFER GENERAL NOTES SHEET DRG. No. C001
 - UNDERGROUND SERVICES EXISTING IN THIS AREA.
 - CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.

- LEGEND**
- PROPOSED SINGLE TIER CONCRETE SLEEPER RETAINING WALL. 0m - 1.5m HIGH MAX. HEIGHT.
 - PROPOSED SINGLE TIER BLOCKWORK RETAINING WALL 0.5m - 3.0m HIGH MAX. HEIGHT.
 - PROPOSED SINGLE TIER BLOCKWORK RETAINING WALL 3.0m - 5.0m HIGH MAX. HEIGHT.
 - PROPOSED BATTER EXTENTS

- LEGEND**
- SITE BOUNDARY
 - DESIGN CONTOUR 1.0m MAJOR INTERVALS
 - DESIGN CONTOUR MINOR 0.5m
 - DESIGN SURFACE LEVEL
 - PROP. STORMWATER NETWORK REFER DRG. No.C300
 - PROP. RETAINING WALL. (REFER DRG. C220 & REFER STRUCTURAL)
 - PROP. TOP OF WALL LEVEL
 - PROP. BOTTOM OF WALL LEVEL
 - EXISTING SURFACE LEVEL

CUT	FILL
PROPOSED CUT	PROPOSED FILL

- LEGEND - EXISTING SURVEY**
- EXIST. SURVEY 0.5m CONTOUR INTERVAL
 - EXISTING STORMWATER DRAINAGE
 - EXISTING WATER
 - EXISTING SEWER
 - EXISTING UNDERGROUND ELECTRICAL
 - EXISTING OVERHEAD ELECTRICAL
 - EXISTING TELSTRA / COMMS

01	ORIGINAL ISSUE	TM	05/26
ISSUE	DESCRIPTION	BY	DATE

ARCHITECT

SCALE (A1 SHEET)

10 0 10 20 1500

SCALE

SCALES SHOWN ARE AT A1 SIZE

SURVEYOR

SIMPSON RAYNER SURVEYS
SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167
CADASTRAL LAND SURVEYORS, PLANNERS
AND LAND DEVELOPMENT CONSULTANTS
5/M53 Metroplex Avenue, MURARRIE QLD 4172
Telephone (07) 3899 8105 Fax. (07) 3899 8107
Email: info@srsurveys.com.au

CLIENT:

BLUEPOINT PROPERTY

PROJECT TITLE:

COMMERCIAL DEVELOPMENT
CNR HOMESTEAD DR/HOLLOWS RD
FLAGSTONE QLD (STAGE 1)
LOTS 25007 & 25009 ON SP303120

APPROVAL ISSUE
NOT FOR CONSTRUCTION

APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD

AR

R.P.E.Q No : 24572	PROJECT TEAM
HEIGHT DATUM	AHD
DESIGNER	TM/GH
GRID	MGA
CHECKER	AR
APPROVED	GH

Fe Friends
civil engineering

Friends Civil Engineering Pty Ltd
ABN 40 638 121 132
p. 0415 704 063 & 0422 024 440
e. contact@friendsengineer.com
w. friendsengineer.com

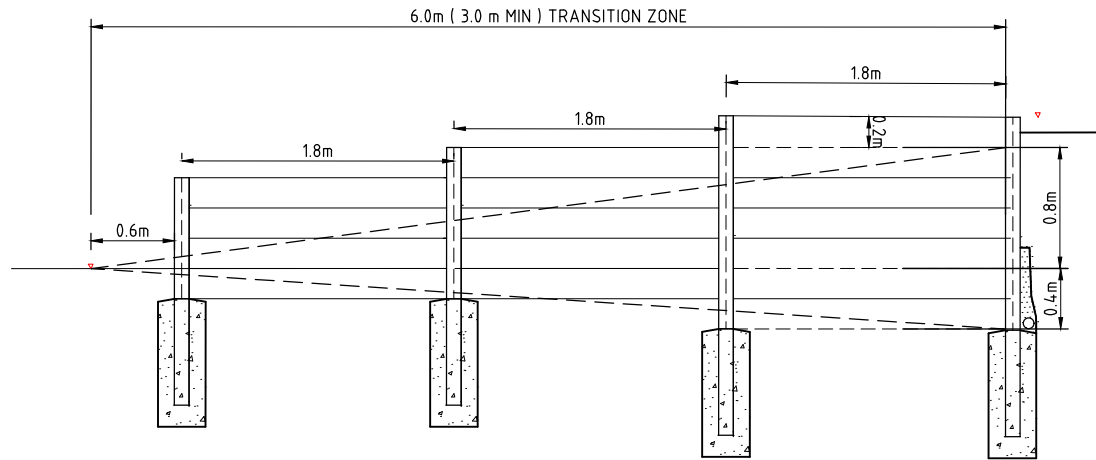
Mail
PO Box 614
BURLEIGH TOWN QLD 4220

DRAWING TITLE:

RETAINING WALL LAYOUT PLAN

PROJECT No.	DRAWING No.	ISSUE
FE25032	C220	01

NOTE: LCC REQUIRE ALL ROAD FRONTAGE CONCRETE SLEEPER RETAINING WALL SLEEPERS TO INCORPORATE A COLOURED AND TEXTURED FINISH. REFER ARCHITECTS FOR COLOUR. REFER LCC FOR REQUIREMENTS.

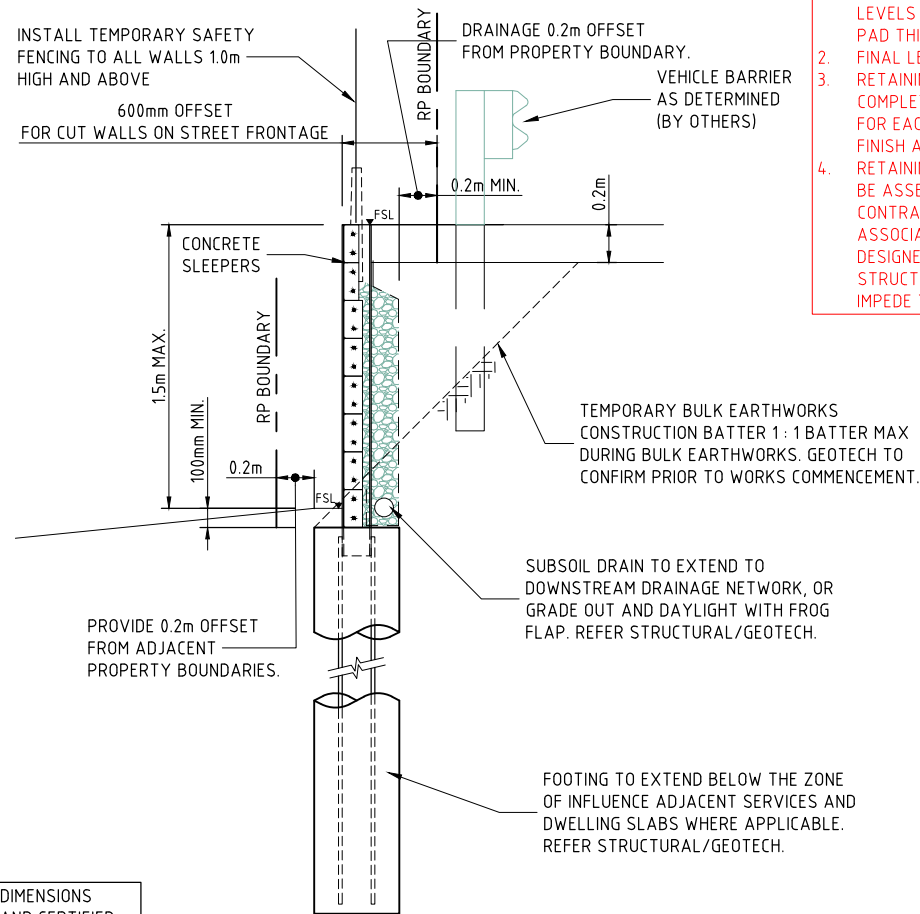


TYPICAL RETAINING WALL ELEVATION
AT FRONT OF ALLOTMENTS
SCALE 1:25

- ### RETAINING WALL NOTES / WARNINGS
- RETAINING WALL DETAILS SHOWS DIMENSIONS ONLY. WALLS ARE TO BE DESIGNED AND CERTIFIED BY CIVIL CONTRACTORS STRUCTURAL ENGINEER UNDER DESIGN AND CONSTRUCTION ARRANGEMENT, INCLUDING FORM 15 & 12 CERTIFICATIONS.
 - GEOTECHNICAL ENGINEER IS TO BE ENGAGED BY THE CIVIL CONTRACTOR FOR CONFIRMATION OF SITE SPECIFIC CONDITIONS THAT NEED TO BE CONSIDERED FOR WALL DESIGNS, INCLUDING GLOBAL STABILITY.
 - WALLS ARE TO BE DESIGNED CONSIDERING ALL LOADS, SUCH AS VEHICLES, FENCING AND DWELLINGS. REFER ARCHITECTS DETAILS FOR END FINISHED USE.
 - TEMPORARY SAFETY FENCING TO BE INSTALLED BEHIND ALL WALLS 1.0m HIGH AND GREATER.
 - RETAINING WALLS INCLUDING FOOTINGS AND DRAINAGE ARE TO BE 200mm SETBACK FROM PROPERTY BOUNDARY AND OFFSET TO THE BACK OF THE DRAINAGE LAYER FOR WALLS IN THE DOWNSTREAM LOT.
 - RETAINING WALLS HAVE TOTAL A MAXIMUM HEIGHT OF 5m (UNO)
 - RETAINING WALLS ALONG HOLLOWES ROAD FRONTAGE REQUIRING TO RETAIN OVER 1.5m TO ADOPT A 2-TIER DESIGN.
 - REFER ARCHITECTS PLANS TO CONFIRM LOCATIONS, TREATMENTS AND INTERFACE WITH DWELLINGS PRIOR TO CONSTRUCTION.

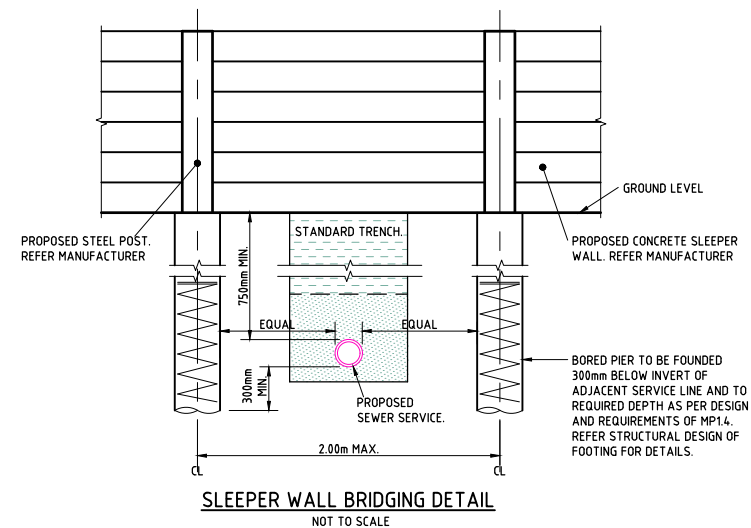
- ### BULK EARTHWORKS DESIGN & CONSTRUCT CONTRACTOR NOTE:
- SURFACE LEVELS SHOWN ON THESE PLANS ARE INDICATIVE FINISHED SURFACE LEVELS. SITE PADS WILL BE HANDED OVER 300mm LOWER THAN INDICATIVE FINISHED SURFACE LEVELS SHOWN TO ALLOW FOR PAVEMENT AND BUILDING PAD THICKNESS.
 - FINAL LEVELS ARE SUBJECT TO OPW APPROVAL PACKAGE. RETAINING WALL FENCING IS TO BE ASSESSED AND COMPLETED BY THE DESIGN AND CONSTRUCT CONTRACTOR FOR EACH LOT DEVELOPMENT WITH THE FENCE TYPE AND FINISH APPROVED BY THE PROJECT ARCHITECT.
 - RETAINING WALL ASSOCIATED VEHICLE BARRIERS ARE TO BE ASSESSED BY THE DESIGN AND CONSTRUCT CONTRACTOR FOR EACH LOT DEVELOPMENT, WITH ANY ASSOCIATED VEHICLE BARRIERS BEING REQUIRED TO BE DESIGNED TO BE INDEPENDENT FROM RETAINING WALL STRUCTURES. NO LOADS FROM THE VEHICLE BARRIER TO IMPEDE THE RETAINING WALL.

- ### RETAINING WALL HEIGHTS
- TOP OF CONCRETE RETAINING WALL HEIGHTS TO BE ROUNDED OFF AND CONSTRUCTED AT 200mm INTERVALS FROM BOTTOM OF RETAINING WALL HEIGHT.
 - DESIGN LEVELS SHOWN ON PLAN LESS THAN OR EQUAL TO WITHIN 100mm OF A 200mm INTERVAL HEIGHT, THE TOP OF WALL LEVEL IS TO BE ROUNDED DOWN AND CONSTRUCTED TO THE 200mm INCREMENT. TAPER OF SLEEPER FOR INTERVAL HEIGHTS IS SUBJECT TO DETAILED DESIGN BY RETAINING WALL DESIGNERS.
 - DESIGN LEVELS SHOWN ON PLAN GREATER THAN 100mm OF A 200mm INTERVAL HEIGHT, THE TOP OF WALL LEVEL IS TO BE ROUNDED UP AND CONSTRUCTED TO THE NEAREST 200mm INCREMENT FOR CONCRETE RETAINING WALLS.
 - FSL - DENOTES FINISHED SURFACE LEVEL.



LCC SINGLE TIER SLEEPER RETAINING WALL
TYPICAL DETAIL
SCALE 1:20

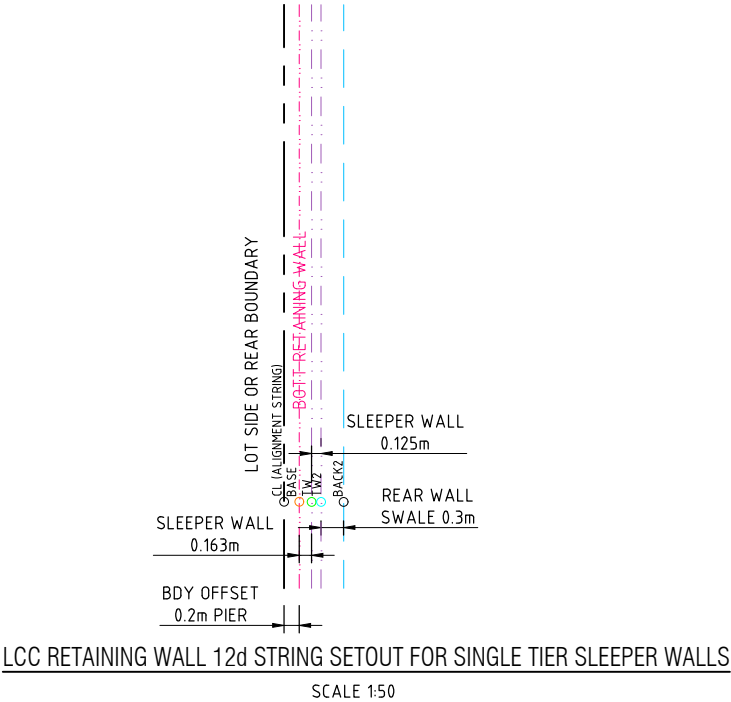
NOTE: RETAINING WALL DETAILS SHOWS DIMENSIONS ONLY. WALLS ARE TO BE DESIGNED AND CERTIFIED BY CIVIL CONTRACTORS STRUCTURAL ENGINEER/GEOTECHNICAL ENGINEER UNDER DESIGN AND CONSTRUCTION ARRANGEMENT, INCLUDING FORM 15 & 12 CERTIFICATIONS. RETAINING WALLS ABOVE 1m IN HEIGHT TO BE DESIGNED AND CERTIFIED TO ACHIEVE MINIMUM 50 YEAR DESIGN LIFE



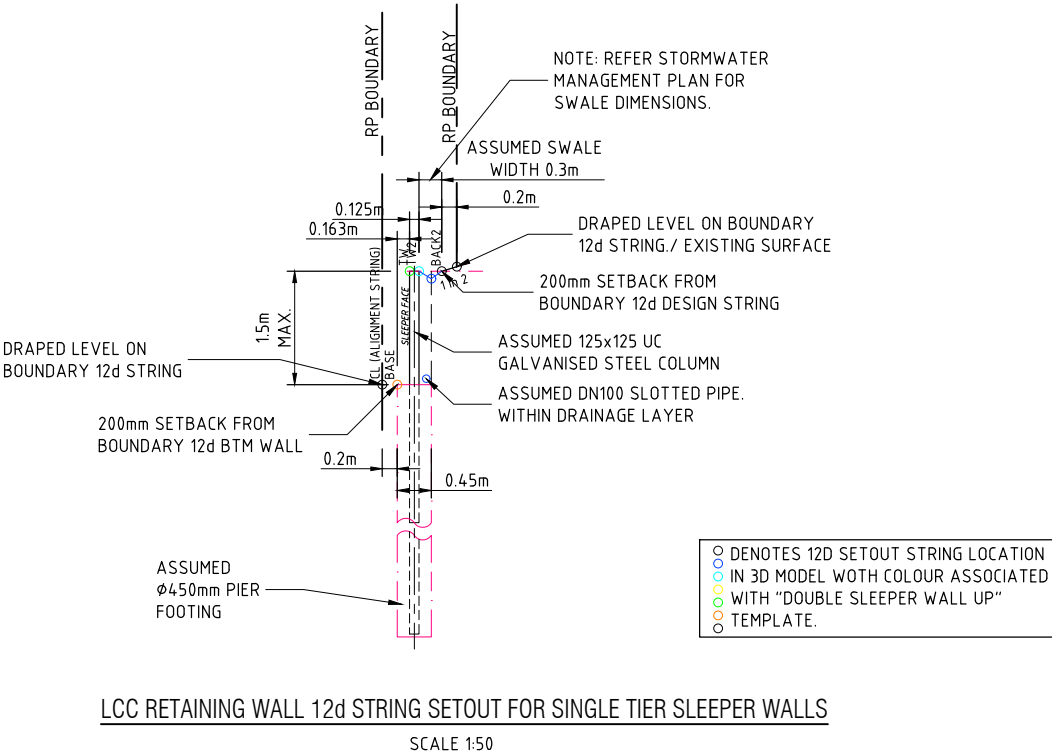
																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

NOTES / WARNINGS

1. REFER GENERAL NOTES SHEET DRG. No.C001
2. RETAINING WALL NOTES ALSO REFER DRG. No.C220



NOTE:
REFER STRUCTURAL FOR
RETAINING WALL DESIGN.

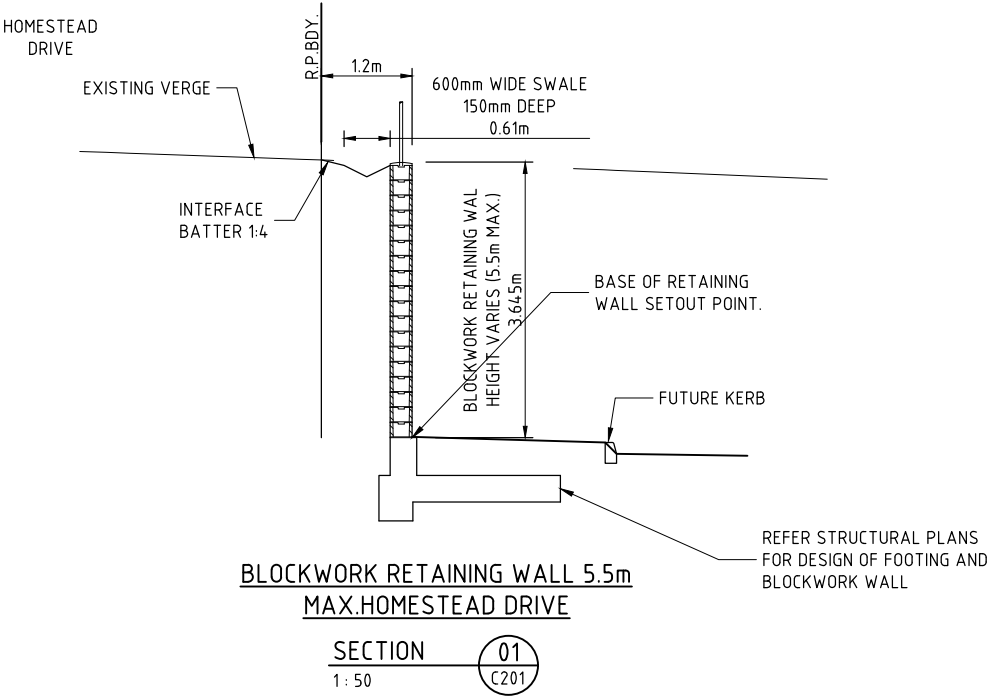


				ARCHITECT		SURVEYOR		CLIENT:		APPROVAL ISSUE NOT FOR CONSTRUCTION		Fe Friends civil engineering Friends Civil Engineering Pty Ltd ABN 40 638 121 132 p. 0415 704 063 & 0422 024 440 e. contact@friendsengineer.com w. friendsengineer.com PO Box 614 BURLEIGH TOWN QLD 4220		DRAWING TITLE: RETAINING WALL TYPICAL SETOUT DETAILS SLEEPER	
				SCALE (A1 SHEET)		SIMPSON RAYNER SURVEYS SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167 CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS 5/M53 Metroplex Avenue, MURARRIE QLD 4172 Telephone (07) 3899 8105 Fax. (07) 3899 8107 Email: info@srsurveys.com.au		PROJECT TITLE: COMMERCIAL DEVELOPMENT CNR HOMESTEAD DR/HOLLOWS RD FLAGSTONE QLD (STAGE 1) LOTS 25007 & 25009 ON SP303120		APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD AR					
01 ORIGINAL ISSUE				TM		05/26				R.P.E.Q No : 24572		PROJECT TEAM			
										HEIGHT DATUM		AHD		DESIGNER TM/GH	
										GRID		MGA		CHECKER AR	
ISSUE DESCRIPTION				BY		DATE				ORIGINAL SHEET SIZE		A1		APPROVED GH	
												FILENAME: C231-FE25032 - RETAINING WALLS TYPICAL SETOUT DETAILS-SLEEPER.DWG		PROJECT No. DRAWING No. ISSUE	
														FE25032 C231 01	

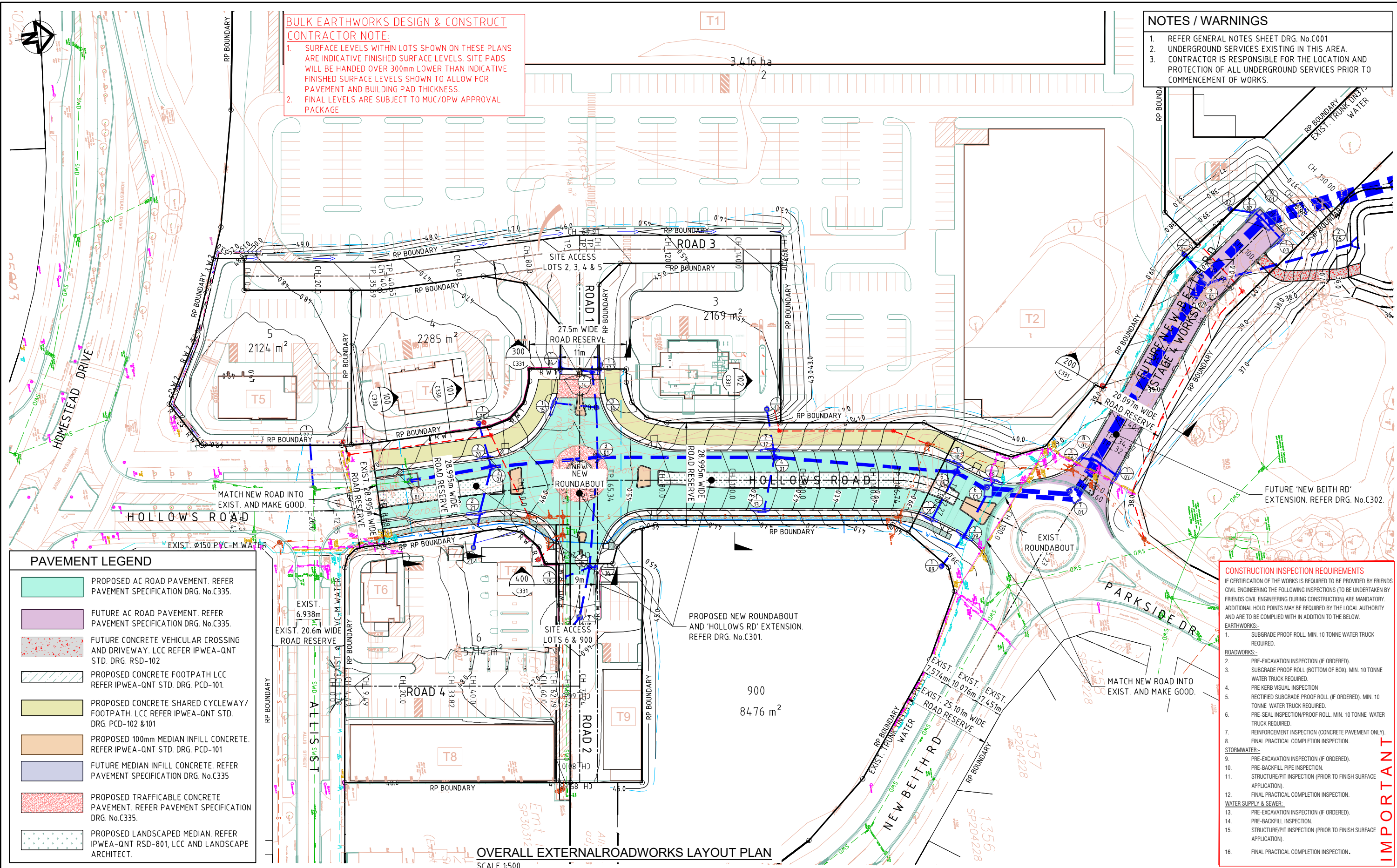
100mm on A1 SIZE SHEET

G:\Shared Drives\Projects 2025\FE25032 - 14-22 Wild Mint Drive, Flagstone\CAD\DPW\C231-FE25032 - RETAINING WALLS TYPICAL SETOUT DETAILS-SLEEPER.dwg

FRIENDS CIVIL ENGINEERING® IS A REGISTERED TRADEMARK OF FRIENDS CIVIL ENGINEERING PTY LTD. © 2025 FRIENDS CIVIL ENGINEERING PTY LTD. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED, OR TRANSMITTED IN ANY FORM WITHOUT PRIOR WRITTEN CONSENT



				ARCHITECT		SURVEYOR		CLIENT:		APPROVAL ISSUE NOT FOR CONSTRUCTION		FeFriendscivil engineering		DRAWING TITLE:	
						SIMPSON RAYNER SURVEYS SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167 CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS 5/M53 Metroplex Avenue, MURARRIE QLD 4172 Telephone (07) 3899 8105 Fax. (07) 3899 8107 Email: info@srsurveys.com.au		BLUEPOINT PROPERTY		APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD <i>AR</i>		Friends Civil Engineering Pty Ltd ABN 40 638 121 132 p. 0415 704 063 & 0422 024 440 e. contact@friendsengineer.com w. friendsengineer.com		BLOCKWORK WALL DETAIL SECTION	
				SCALE (A1 SHEET)				PROJECT TITLE:		R.P.E.Q No : 24572		PROJECT TEAM		PROJECT No.	
								COMMERCIAL DEVELOPMENT CNR HOMESTEAD DR/HOLLOWS RD FLAGSTONE QLD (STAGE 1) LOTS 25007 & 25009 ON SP303120		HEIGHT DATUM		DESIGNER		DRAWING No.	
										GRID		CHECKER		ISSUE	
										ORIGINAL SHEET SIZE		APPROVED		FE25032	
												GH		C240	
														01	



BULK EARTHWORKS DESIGN & CONSTRUCT CONTRACTOR NOTE:

1. SURFACE LEVELS WITHIN LOTS SHOWN ON THESE PLANS ARE INDICATIVE FINISHED SURFACE LEVELS. SITE PADS WILL BE HANDED OVER 300mm LOWER THAN INDICATIVE FINISHED SURFACE LEVELS SHOWN TO ALLOW FOR PAVEMENT AND BUILDING PAD THICKNESS.

2. FINAL LEVELS ARE SUBJECT TO MUC/OPW APPROVAL PACKAGE

NOTES / WARNINGS

1. REFER GENERAL NOTES SHEET DRG. No.C001

2. UNDERGROUND SERVICES EXISTING IN THIS AREA.

3. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.

PAVEMENT LEGEND	
	PROPOSED AC ROAD PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
	FUTURE AC ROAD PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
	FUTURE CONCRETE VEHICULAR CROSSING AND DRIVEWAY. LCC REFER IPWEA-QNT STD. DRG. RSD-102
	PROPOSED CONCRETE FOOTPATH LCC REFER IPWEA-QNT STD. DRG. PCD-101.
	PROPOSED CONCRETE SHARED CYCLEWAY/ FOOTPATH. LCC REFER IPWEA-QNT STD. DRG. PCD-102 & 101
	PROPOSED 100mm MEDIAN INFILL CONCRETE. REFER IPWEA-QNT STD. DRG. PCD-101
	FUTURE MEDIAN INFILL CONCRETE. REFER PAVEMENT SPECIFICATION DRG. No.C335
	PROPOSED TRAFFICABLE CONCRETE PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
	PROPOSED LANDSCAPED MEDIAN. REFER IPWEA-QNT RSD-801, LCC AND LANDSCAPE ARCHITECT.

CONSTRUCTION INSPECTION REQUIREMENTS	
IF CERTIFICATION OF THE WORKS IS REQUIRED TO BE PROVIDED BY FRIENDS CIVIL ENGINEERING THE FOLLOWING INSPECTIONS (TO BE UNDERTAKEN BY FRIENDS CIVIL ENGINEERING DURING CONSTRUCTION) ARE MANDATORY. ADDITIONAL HOLD POINTS MAY BE REQUIRED BY THE LOCAL AUTHORITY AND ARE TO BE COMPLIED WITH IN ADDITION TO THE BELOW.	
EARTHWORKS:-	
1.	SUBGRADE PROOF ROLL. MIN. 10 TONNE WATER TRUCK REQUIRED.
ROADWORKS:-	
2.	PRE-EXCAVATION INSPECTION (IF ORDERED).
3.	SUBGRADE PROOF ROLL (BOTTOM OF BOX). MIN. 10 TONNE WATER TRUCK REQUIRED.
4.	PRE KERB VISUAL INSPECTION
5.	RECTIFIED SUBGRADE PROOF ROLL (IF ORDERED). MIN. 10 TONNE WATER TRUCK REQUIRED.
6.	PRE-SEAL INSPECTION/PROOF ROLL. MIN. 10 TONNE WATER TRUCK REQUIRED.
7.	REINFORCEMENT INSPECTION (CONCRETE PAVEMENT ONLY).
8.	FINAL PRACTICAL COMPLETION INSPECTION.
STORMWATER:-	
9.	PRE-EXCAVATION INSPECTION (IF ORDERED).
10.	PRE-BACKFILL PIPE INSPECTION.
11.	STRUCTURE/PIT INSPECTION (PRIOR TO FINISH SURFACE APPLICATION).
12.	FINAL PRACTICAL COMPLETION INSPECTION.
WATER SUPPLY & SEWER:-	
13.	PRE-EXCAVATION INSPECTION (IF ORDERED).
14.	PRE-BACKFILL INSPECTION.
15.	STRUCTURE/PIT INSPECTION (PRIOR TO FINISH SURFACE APPLICATION).
16.	FINAL PRACTICAL COMPLETION INSPECTION.

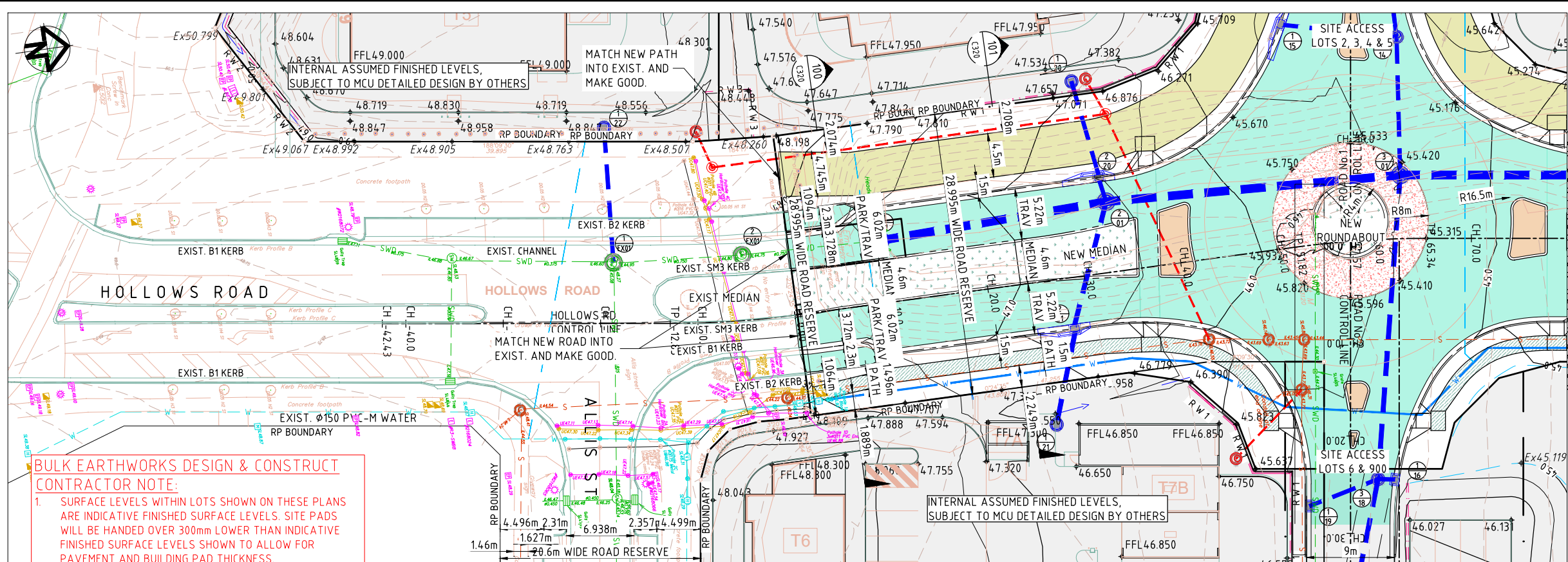
IMPORTANT

ARCHITECT	SURVEYOR	CLIENT	APPROVAL ISSUE		DRAWING TITLE:		
		BLUEPOINT PROPERTY	NOT FOR CONSTRUCTION				
SCALE (A1 SHEET)		SIMPSON RAYNER SURVEYS SIMPSON RAYNER SURVEYS PTY LTD. A.C.N. 078 818 167 CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS 5/MS3 Metroplex Avenue, MURARRIE QLD 4172 Telephone (07) 3899 8105 Fax: (07) 3899 8107 Email: info@srsurveys.com.au	PROJECT TITLE: COMMERCIAL DEVELOPMENT CNR HOMESTEAD DR/HOLLOWS RD FLAGSTONE QLD (STAGE 1) LOTS 25007 & 25009 ON SP303120	Friends Civil Engineering Pty Ltd ABN 40 638 121 132 p. 0415 704 063 & 0422 024 440 e. contact@friendsengineer.com w. friendsengineer.com	PROJECT No.	DRAWING No.	ISSUE
01 ORIGINAL ISSUE	TM 05/26			FE25032	C300	01	
ISSUE	DESCRIPTION	BY	DATE	FILENAME: C300-FE25032 - EXTERNAL ROADWORKS LAYOUT PLANDWG			

100mm on A1 SIZE SHEET

G:\Shared Drives\Projects 2025\FE25032 - 14-22 Wild Mind Drive, Flagstone\CAD\OPW\C300-FE25032 - EXTERNAL ROADWORKS LAYOUT PLAN.dwg

FRIENDS CIVIL ENGINEERING IS A REGISTERED TRADEMARK OF FRIENDS CIVIL ENGINEERING PTY LTD. © 2025 FRIENDS CIVIL ENGINEERING PTY LTD. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED, OR TRANSMITTED IN ANY FORM WITHOUT PRIOR WRITTEN CONSENT

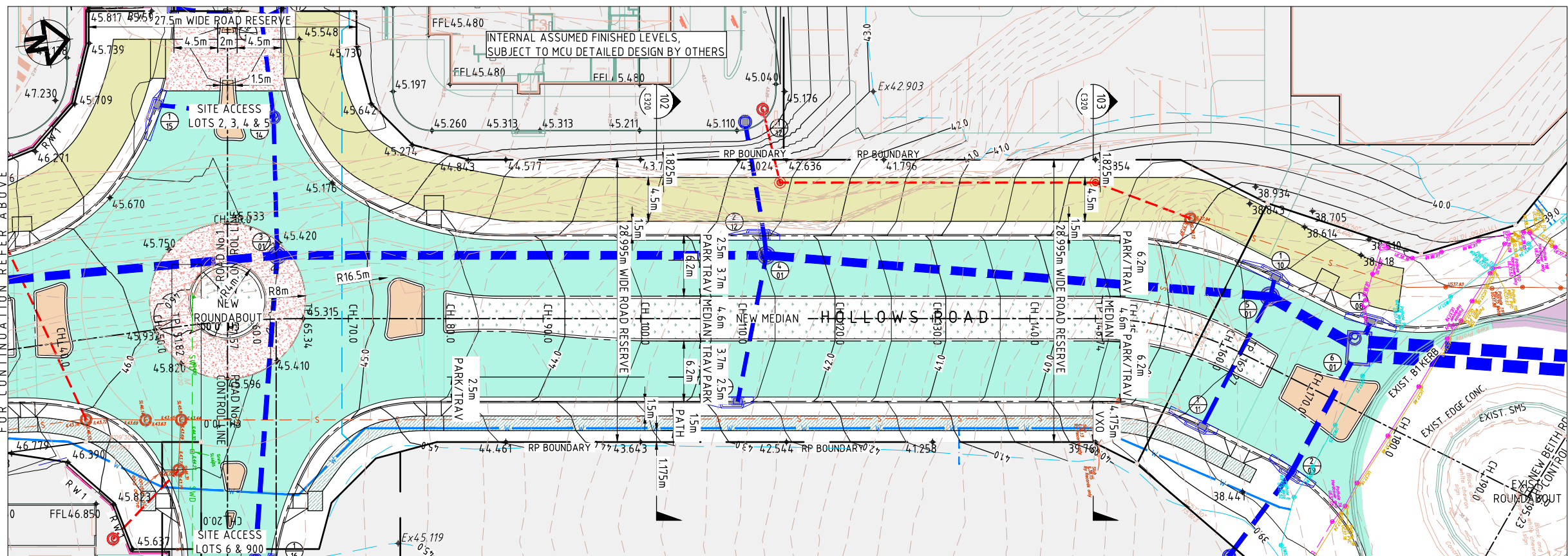


HOLLOWS ROAD PART ROADWORKS LAYOUT PLAN
SCALE 1:250

- NOTES / WARNINGS**
1. REFER GENERAL NOTES SHEET DRG. No.C001
 2. UNDERGROUND SERVICES EXISTING IN THIS AREA.
 3. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.

- LEGEND**
- SITE BOUNDARY
 - 12.0— DESIGN CONTOUR 1.0m MAJOR INTERVALS
 - DESIGN CONTOUR MINOR 0.5m
 - +13.250 DESIGN SURFACE LEVEL
 - PROP. STORMWATER NETWORK REFER DRG. No.C400
 - PROP. STORMWATER STRUCTURE LABEL
 - INTERNAL INDICATIVE LEVELS
 - +13.91 +Ex13.250 EXISTING SURVEY SURFACE LEVELS

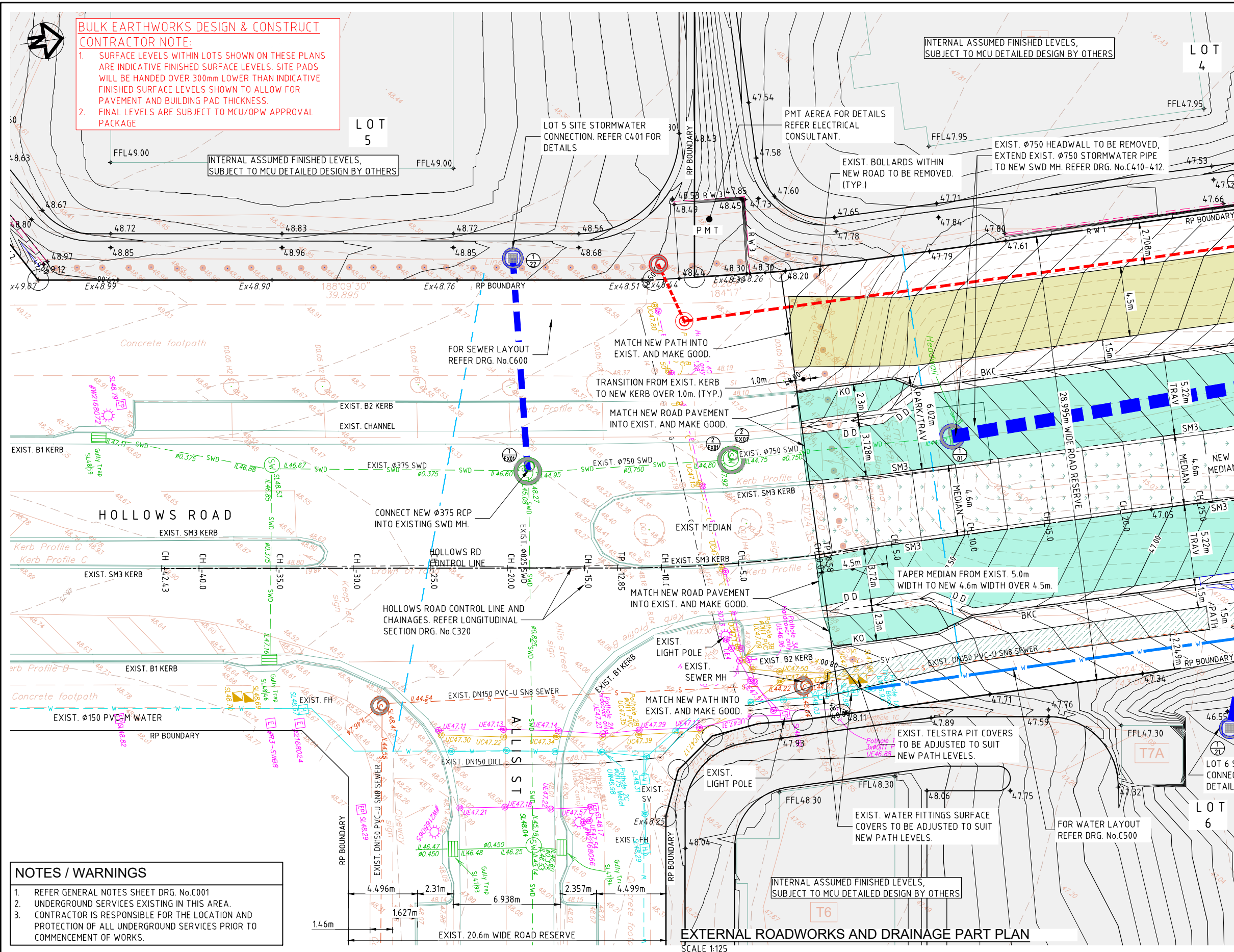
- LEGEND - EXISTING SURVEY**
- 80 EXIST. SURVEY 0.5m CONTOUR INTERVAL
 - SWD EXISTING STORMWATER DRAINAGE
 - EXISTING WATER
 - EXISTING SEWER
 - EXISTING UNDERGROUND ELECTRICAL
 - EXISTING OVERHEAD ELECTRICAL
 - EXISTING TELSTRA / COMMS



HOLLOWS ROAD PART ROADWORKS LAYOUT PLAN CONT'D
SCALE 1:250

- PAVEMENT LEGEND**
- PROPOSED AC ROAD PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
 - FUTURE AC ROAD PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
 - FUTURE CONCRETE VEHICULAR CROSSING AND DRIVEWAY. LCC REFER IPWEA-QNT STD. DRG. RSD-102
 - PROPOSED CONCRETE FOOTPATH LCC REFER IPWEA-QNT STD. DRG. PCD-101.
 - PROPOSED CONCRETE SHARED CYCLEWAY / FOOTPATH. LCC REFER IPWEA-QNT STD. DRG. PCD-102 & 101
 - PROPOSED 100mm MEDIAN INFILL CONCRETE. REFER IPWEA-QNT STD. DRG. PCD-101
 - FUTURE MEDIAN INFILL CONCRETE. REFER PAVEMENT SPECIFICATION DRG. No.C335
 - PROPOSED TRAFFICABLE CONCRETE PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
 - PROPOSED LANDSCAPED MEDIAN. REFER IPWEA-QNT RSD-801, LCC AND LANDSCAPE ARCHITECT.

				ARCHITECT		SURVEYOR		CLIENT:		APPROVAL ISSUE NOT FOR CONSTRUCTION				Fe Friends civil engineering Friends Civil Engineering Pty Ltd ABN 40 638 121 132 p. 0415 704 063 & 0422 024 440 e. contact@friendsengineer.com w. friendsengineer.com PO Box 614 BURLEIGH TOWN QLD 4220 Mail				DRAWING TITLE: EXTERNAL ROADWORKS LAYOUT PLAN HOLLOWS ROAD					
				SCALE (A1 SHEET)		SIMPSON RAYNER SURVEYS SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167 CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS 5/M53 Metroplex Avenue, MURARRIE QLD 4172 Telephone (07) 3899 8105 Fax: (07) 3899 8107 Email: info@srsurveys.com.au		BLUEPOINT PROPERTY		APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD <i>AR</i>													
01 ORIGINAL ISSUE		TM 05/26		5000 05000 12500 SCALE				PROJECT TITLE: COMMERCIAL DEVELOPMENT CNR HOMESTEAD DR/HOLLOWS RD FLAGSTONE QLD (STAGE 1) LOTS 25007 & 25009 ON SP303120		R.P.E.Q No. 24572		PROJECT TEAM											
										HEIGHT DATUM		AHD		DESIGNER		TM/GH							
										GRID		MGA		CHECKER		AR							
ISSUE		DESCRIPTION		BY		DATE				ORIGINAL SHEET SIZE		A1		APPROVED		GH		FILENAME: C301-FE25032 - EXTERNAL ROADWORKS LAYOUT PLAN HOLLOWS ROAD.DWG					
						SCALES SHOWN ARE AT A1 SIZE												PROJECT No.		DRAWING No.		ISSUE	
																		FE25032		C301		01	

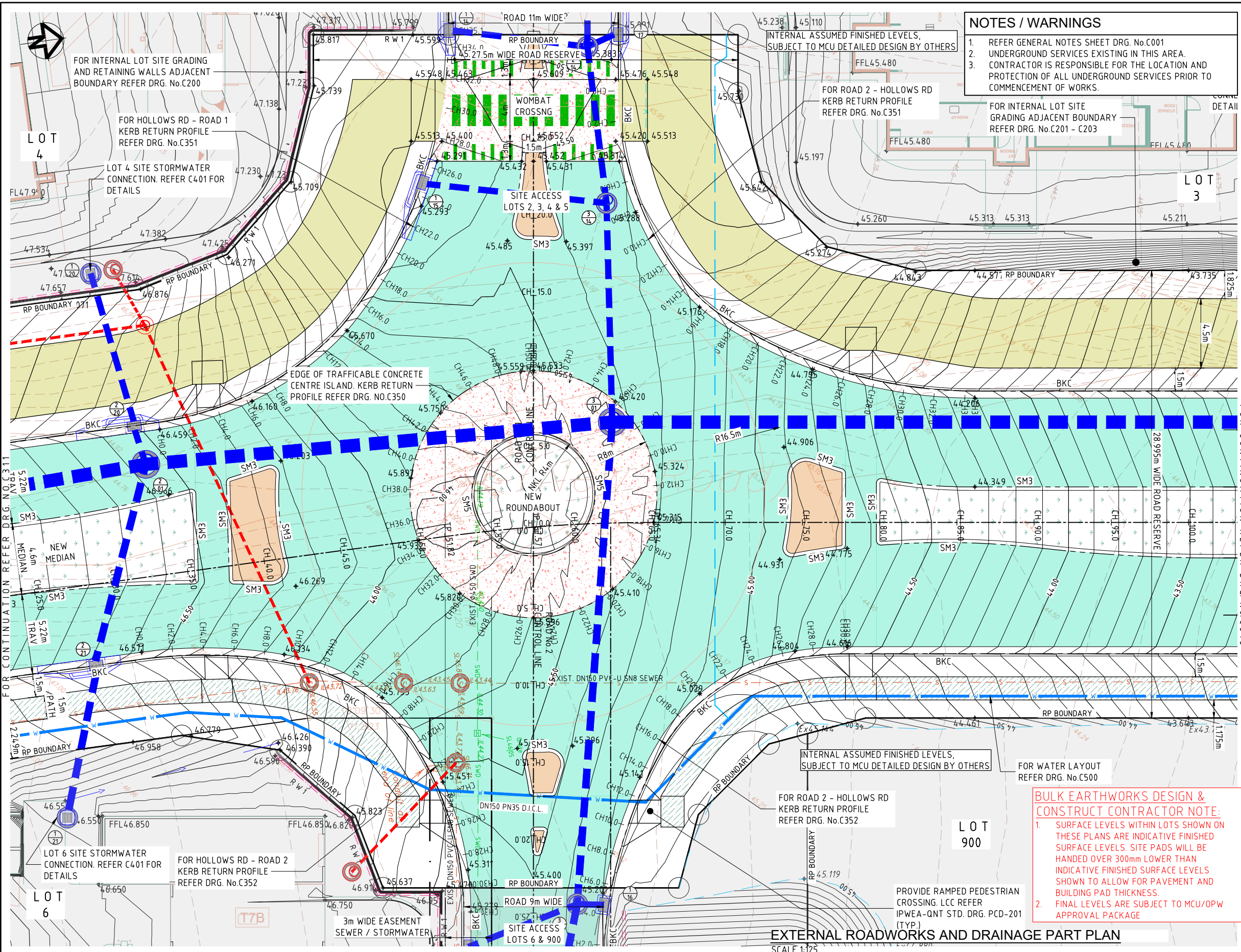


LEGEND	
	SITE BOUNDARY
	DESIGN CONTOUR 0.5m MAJOR INTERVALS
	DESIGN CONTOUR MINOR 0.1m
	DESIGN SURFACE LEVEL
	PROP. STORMWATER NETWORK REFER DRG. No.C400
	PROP. STORMWATER STRUCTURE LABEL
	BARRIER KERB TYPE 'B2'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
	BARRIER KERB TYPE 'B1' 450mm WIDE. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
	MOUNTABLE KERB TYPE 'M3'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
	DISH DRAIN TYPE 'CHANNEL 900mm WIDE'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
	SEMI-MOUNTABLE KERB TYPE 'SM3'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
	SEMI-MOUNTABLE KERB TYPE 'SM5'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
	PROPOSED FOOTPATH. LCC REFER IPWEA-QNT STD. DRG. PCD-101-102 (TYP.)
	EXISTING SURVEY SURFACE LEVELS
	INTERNAL INDICATIVE LEVELS

LEGEND - EXISTING SURVEY	
	EXIST. SURVEY 0.5m CONTOUR INTERVAL
	EXISTING STORMWATER DRAINAGE
	EXISTING WATER
	EXISTING SEWER
	EXISTING UNDERGROUND ELECTRICAL
	EXISTING OVERHEAD ELECTRICAL
	EXISTING TELSTRA / COMMS

PAVEMENT LEGEND	
	PROPOSED AC ROAD PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
	FUTURE AC ROAD PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
	FUTURE CONCRETE VEHICULAR CROSSING AND DRIVEWAY. LCC REFER IPWEA-QNT STD. DRG. RSD-102
	PROPOSED CONCRETE FOOTPATH LCC REFER IPWEA-QNT STD. DRG. PCD-101.
	PROPOSED CONCRETE SHARED CYCLEWAY / FOOTPATH. LCC REFER IPWEA-QNT STD. DRG. PCD-102 & 101
	PROPOSED 100mm MEDIAN INFILL CONCRETE. REFER IPWEA-QNT STD. DRG. PCD-101
	FUTURE MEDIAN INFILL CONCRETE. REFER PAVEMENT SPECIFICATION DRG. No.C335
	PROPOSED TRAFFICABLE CONCRETE PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
	PROPOSED LANDSCAPED MEDIAN. REFER IPWEA-QNT RSD-801, LCC AND LANDSCAPE ARCHITECT.

ARCHITECT		SURVEYOR		CLIENT		APPROVAL ISSUE		Fe Friends civil engineering		DRAWING TITLE:	
SIMPSON RAYNER SURVEYS		BLUEPOINT PROPERTY		APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD		PROJECT TEAM		Friends Civil Engineering Pty Ltd		EXTERNAL ROADWORKS AND DRAINAGE PART PLAN 1 OF 6	
CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS		PROJECT TITLE:		R.P.E.Q. No : 24572		DESIGNER		ABN 40 638 121 132		PROJECT No.	
5/M53 Metroplex Avenue, MURARRIE QLD 4172		COMMERCIAL DEVELOPMENT		HEIGHT DATUM		CHECKER		p. 0415 704 063 & 0422 024 440		DRAWING No.	
Telephone (07) 3899 8105 Fax. (07) 3899 8107		CNR HOMESTEAD DR/HOLLOWS RD		GRID		APPROVED		e. contact@friendsengineer.com		ISSUE	
Email: info@srsurveys.com.au		FLAGSTONE QLD (STAGE 1)		ORIGINAL SHEET SIZE		FILENAME: C311-FE25032 - EXTERNAL ROADWORKS AND DRAINAGE SHEET 1 OF 6.DWG		w. friendsengineer.com		FE25032	
SCALE (A1 SHEET)		LOT 25007 & 25009 ON SP303120		A1		BURLEIGH TOWN QLD 4220		PO Box 614		C311	
2.5 0 2.5 5 1:125		SCALES SHOWN ARE AT A1 SIZE		A1		100mm on A1 SIZE SHEET		G:\Shared Drives\Projects\2025\FE25032 - 14-22 Wild Mint Drive, Flagstone\CAD\OPW\C311-FE25032 - EXTERNAL ROADWORKS AND DRAINAGE SHEET 1 OF 6.dwg		01	
01 ORIGINAL ISSUE		TM 05/26		BY DATE		FRIENDS CIVIL ENGINEERING IS A REGISTERED TRADEMARK OF FRIENDS CIVIL ENGINEERING PTY LTD. © 2025 FRIENDS CIVIL ENGINEERING PTY LTD. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED, OR TRANSMITTED IN ANY FORM WITHOUT PRIOR WRITTEN CONSENT					



- NOTES / WARNINGS**
1. REFER GENERAL NOTES SHEET DRG. No.C001
 2. UNDERGROUND SERVICES EXISTING IN THIS AREA.
 3. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.
- FOR INTERNAL LOT SITE GRADING ADJACENT BOUNDARY REFER DRG. No.C201 - C203

- LEGEND**
- SITE BOUNDARY
 - DESIGN CONTOUR 0.5m MAJOR INTERVALS
 - DESIGN CONTOUR MINOR 0.1m
 - DESIGN SURFACE LEVEL
 - PROP. STORMWATER NETWORK REFER DRG. No.C400
 - PROP. STORMWATER STRUCTURE LABEL
 - BARRIER KERB TYPE 'B2'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - BARRIER KERB TYPE 'B1' 450mm WIDE. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - MOUNTABLE KERB TYPE 'M3'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - DISH DRAIN TYPE 'CHANNEL 900mm WIDE'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - SEMI-MOUNTABLE KERB TYPE 'SM3'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - SEMI-MOUNTABLE KERB TYPE 'SM5'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - PROPOSED FOOTPATH. LCC REFER IPWEA-QNT STD. DRG. PCD-101-102 (TYP.)
 - EXISTING SURVEY SURFACE LEVELS
 - INTERNAL INDICATIVE LEVELS

- LEGEND - EXISTING SURVEY**
- EXIST. SURVEY 0.5m CONTOUR INTERVAL
 - EXISTING STORMWATER DRAINAGE
 - EXISTING WATER
 - EXISTING SEWER
 - EXISTING UNDERGROUND ELECTRICAL
 - EXISTING OVERHEAD ELECTRICAL
 - EXISTING TELSTRA / COMMS

- PAVEMENT LEGEND**
- PROPOSED AC ROAD PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
 - FUTURE AC ROAD PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
 - FUTURE CONCRETE VEHICULAR CROSSING AND DRIVEWAY. LCC REFER IPWEA-QNT STD. DRG. RSD-102
 - PROPOSED CONCRETE FOOTPATH LCC REFER IPWEA-QNT STD. DRG. PCD-101.
 - PROPOSED CONCRETE SHARED CYCLEWAY / FOOTPATH. LCC REFER IPWEA-QNT STD. DRG. PCD-102 & 101
 - PROPOSED 100mm MEDIAN INFILL CONCRETE. REFER IPWEA-QNT STD. DRG. PCD-101
 - FUTURE MEDIAN INFILL CONCRETE. REFER PAVEMENT SPECIFICATION DRG. No.C335
 - PROPOSED TRAFFICABLE CONCRETE PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
 - PROPOSED LANDSCAPED MEDIAN. REFER IPWEA-QNT RSD-801, LCC AND LANDSCAPE ARCHITECT.

01	ORIGINAL ISSUE	TM	05/26
ISSUE	DESCRIPTION	BY	DATE

ARCHITECT

SCALE (A1 SHEET)

2.5 0 2.5 5 1125

SCALE

SCALES SHOWN ARE AT A1 SIZE

SURVEYOR

SIMPSON RAYNER SURVEYS
SIMPSON RAYNER SURVEYS PTY LTD. A.C.N. 078 818 167
CADASTRAL LAND SURVEYORS, PLANNERS
AND LAND DEVELOPMENT CONSULTANTS
5/M53 Metropex Avenue, MURARRIE QLD 4172
Telephone (07) 3899 8105 Fax: (07) 3899 8107
Email: info@srsurveys.com.au

CLIENT:

BLUEPOINT
PROPERTY

PROJECT TITLE:

**COMMERCIAL DEVELOPMENT
CNR HOMESTEAD DR/HOLLOW RD
FLAGSTONE QLD (STAGE 1)
LOTS 25007 & 25009 ON SP303120**

APPROVAL ISSUE
NOT FOR CONSTRUCTION

APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD

AR

R.P.E.Q. No : 24572	PROJECT TEAM
HEIGHT DATUM	AHD
DESIGNER	TM/GH
GRID	MGA
CHECKER	AR
APPROVED	GH

ORIGINAL SHEET SIZE A1

Fe Friends
civil engineering

Friends Civil Engineering Pty Ltd
ABN 40 638 121 132
p. 0415 704 063 & 0422 024 440
e. contact@friendsengineer.com
w. friendsengineer.com

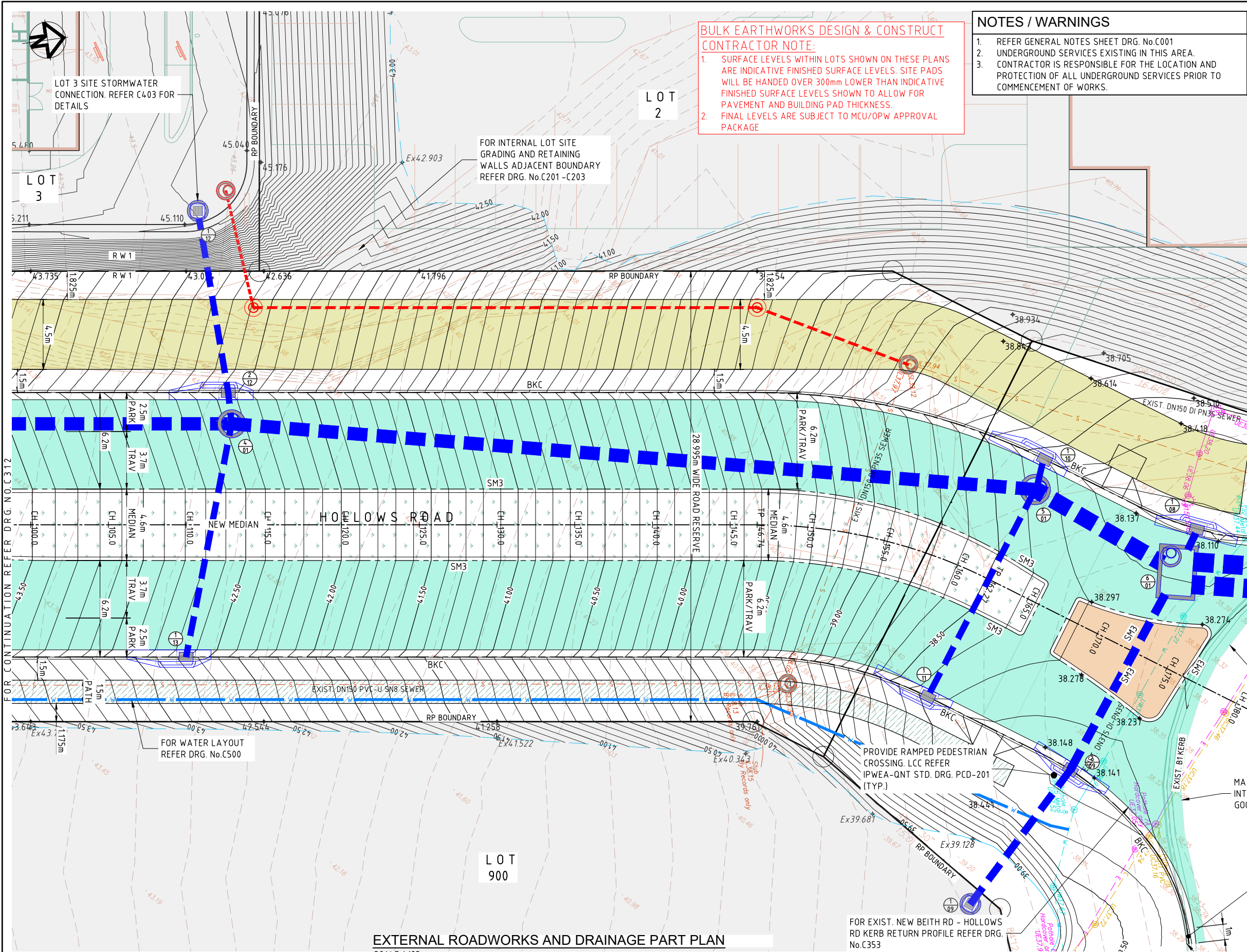
Mail
PO Box 614
BURLEIGH TOWN QLD 4220

FILENAME: C312-FE25032 - EXTERNAL ROADWORKS AND DRAINAGE SHEET 2 OF 6.DWG

DRAWING TITLE:

**EXTERNAL ROADWORKS
AND DRAINAGE
PART PLAN
2 OF 6**

PROJECT No.	DRAWING No.	ISSUE
FE25032	C312	01



BULK EARTHWORKS DESIGN & CONSTRUCT CONTRACTOR NOTE:

1. SURFACE LEVELS WITHIN LOTS SHOWN ON THESE PLANS ARE INDICATIVE FINISHED SURFACE LEVELS. SITE PADS WILL BE HANDED OVER 300mm LOWER THAN INDICATIVE FINISHED SURFACE LEVELS SHOWN TO ALLOW FOR PAVEMENT AND BUILDING PAD THICKNESS.

2. FINAL LEVELS ARE SUBJECT TO MCU/OPW APPROVAL PACKAGE

- NOTES / WARNINGS**
1. REFER GENERAL NOTES SHEET DRG. No.C001
2. UNDERGROUND SERVICES EXISTING IN THIS AREA.
3. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.

- LEGEND**
- SITE BOUNDARY
 - DESIGN CONTOUR 0.5m MAJOR INTERVALS
 - DESIGN CONTOUR MINOR 0.1m
 - DESIGN SURFACE LEVEL
 - PROP. STORMWATER NETWORK REFER DRG. No.C400
 - PROP. STORMWATER STRUCTURE LABEL
 - BARRIER KERB TYPE 'B2'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - BARRIER KERB TYPE 'B1' 450mm WIDE. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - MOUNTABLE KERB TYPE 'M3'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - DISH DRAIN TYPE 'CHANNEL 900mm WIDE'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - SEMI-MOUNTABLE KERB TYPE 'SM3'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - SEMI-MOUNTABLE KERB TYPE 'SM5'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - PROPOSED FOOTPATH. LCC REFER IPWEA-QNT STD. DRG. PCD-101-102 (TYP.)
 - EXISTING SURVEY SURFACE LEVELS
 - INTERNAL INDICATIVE LEVELS

- LEGEND - EXISTING SURVEY**
- EXIST. SURVEY 0.5m CONTOUR INTERVAL
 - EXISTING STORMWATER DRAINAGE
 - EXISTING WATER
 - EXISTING SEWER
 - EXISTING UNDERGROUND ELECTRICAL
 - EXISTING OVERHEAD ELECTRICAL
 - EXISTING TELSTRA / COMMS

- PAVEMENT LEGEND**
- PROPOSED AC ROAD PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
 - FUTURE AC ROAD PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
 - FUTURE CONCRETE VEHICULAR CROSSING AND DRIVEWAY. LCC REFER IPWEA-QNT STD. DRG. RSD-102
 - PROPOSED CONCRETE FOOTPATH LCC REFER IPWEA-QNT STD. DRG. PCD-101.
 - PROPOSED CONCRETE SHARED CYCLEWAY / FOOTPATH. LCC REFER IPWEA-QNT STD. DRG. PCD-102 & 101
 - PROPOSED 100mm MEDIAN INFILL CONCRETE. REFER IPWEA-QNT STD. DRG. PCD-101
 - FUTURE MEDIAN INFILL CONCRETE. REFER PAVEMENT SPECIFICATION DRG. No.C335
 - PROPOSED TRAFFICABLE CONCRETE PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
 - PROPOSED LANDSCAPED MEDIAN. REFER IPWEA-QNT RSD-801, LCC AND LANDSCAPE ARCHITECT.

EXTERNAL ROADWORKS AND DRAINAGE PART PLAN
SCALE 1:125

01	ORIGINAL ISSUE	TM	05/26
ISSUE	DESCRIPTION	BY	DATE

ARCHITECT

SCALE (A1 SHEET)

2.5 0 2.5 5 1125

SCALE

SCALES SHOWN ARE AT A1 SIZE

SURVEYOR

SIMPSON RAYNER SURVEYS
SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167
CADASTRAL LAND SURVEYORS, PLANNERS
AND LAND DEVELOPMENT CONSULTANTS
5/M53 Metroplex Avenue, MURARRIE QLD 4172
Telephone (07) 3899 8105 Fax. (07) 3899 8107
Email: info@srsurveys.com.au

CLIENT:

BLUEPOINT
PROPERTY

PROJECT TITLE:

**COMMERCIAL DEVELOPMENT
CNR HOMESTEAD DR/HOLLOWS RD
FLAGSTONE QLD (STAGE 1)
LOTS 25007 & 25009 ON SP303120**

**APPROVAL ISSUE
NOT FOR CONSTRUCTION**

APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD

AR

R.P.E.Q No : 24572	PROJECT TEAM
HEIGHT DATUM	AHD
DESIGNER	TM/GH
GRID	MGA
CHECKER	AR
APPROVED	GH

**Fe Friends
civil engineering**

Friends Civil Engineering Pty Ltd
ABN 40 638 121 132
p. 0415 704 063 & 0422 024 440
e. contact@friendsengineer.com
w. friendsengineer.com

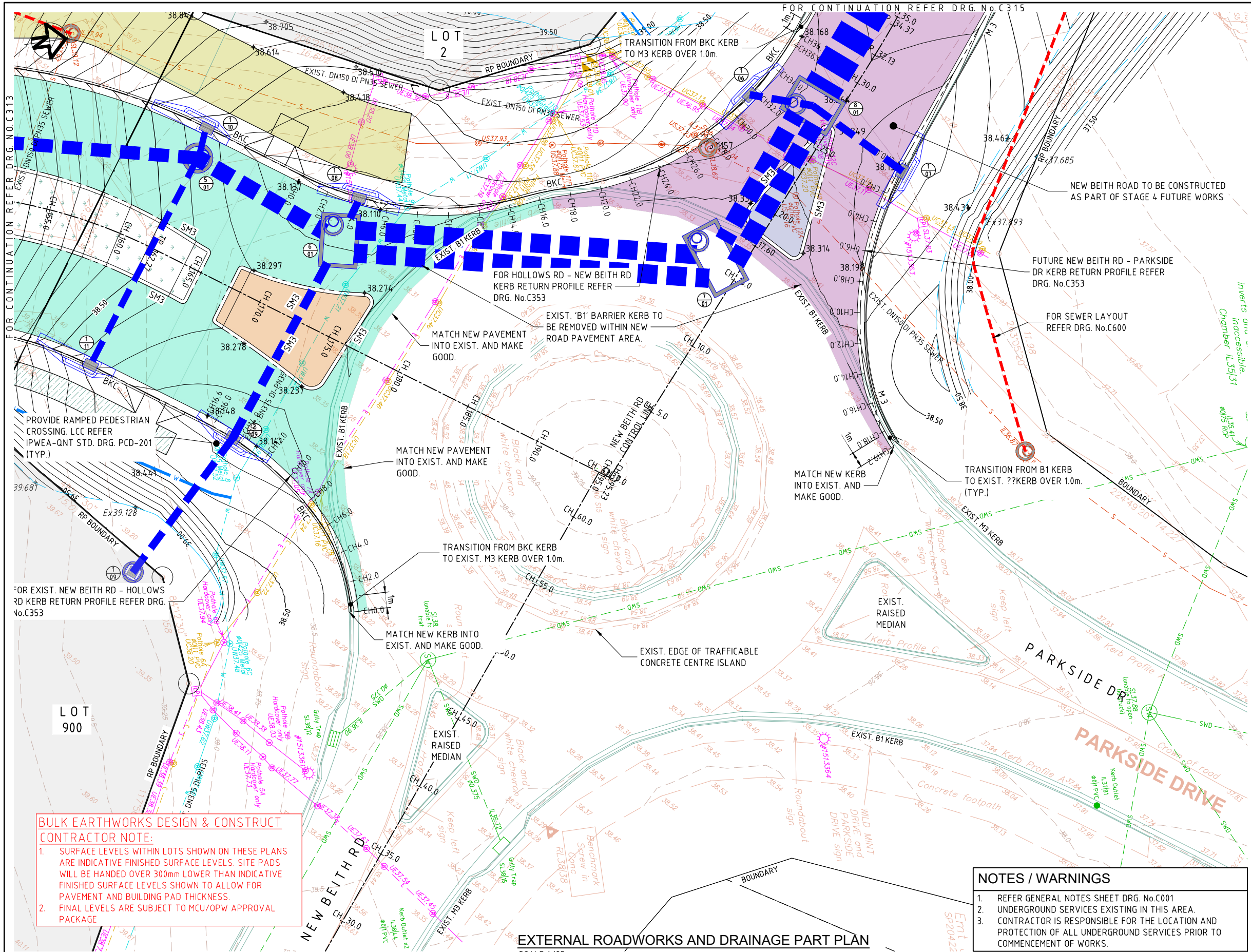
Mail
PO Box 614
BURLEIGH TOWN QLD 4220

FILENAME: C313-FE25032 - EXTERNAL ROADWORKS AND DRAINAGE SHEET 3 OF 6.DWG

DRAWING TITLE:

**EXTERNAL ROADWORKS
AND DRAINAGE
PART PLAN
3 OF 6**

PROJECT No.	DRAWING No.	ISSUE
FE25032	C313	01



LEGEND

12.5

13.250

101

K0

BKC

M3

D.D.

SM3

SMS

+13.91

+Ex13.250

SITE BOUNDARY

DESIGN CONTOUR 0.5m MAJOR INTERVALS

DESIGN CONTOUR MINOR 0.1m

DESIGN SURFACE LEVEL

PROP. STORMWATER NETWORK
REFER DRG. No.C400

PROP. STORMWATER
STRUCTURE LABEL

BARRIER KERB TYPE 'B2'. LCC REFER
IPWEA-QNT STD. DRG. RSD-200 (TYP.)

BARRIER KERB TYPE 'B1' 450mm WIDE. LCC
REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)

MOUNTABLE KERB TYPE 'M3'. LCC REFER
IPWEA-QNT STD. DRG. RSD-200 (TYP.)

DISH DRAIN TYPE 'CHANNEL 900mm WIDE'.
LCC REFER IPWEA-QNT STD. DRG. RSD-200
(TYP.)

SEMI-MOUNTABLE KERB TYPE 'SM3'. LCC
REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)

SEMI-MOUNTABLE KERB TYPE 'SM5'. LCC
REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)

PROPOSED FOOTPATH. LCC REFER
IPWEA-QNT STD. DRG. PCD-101-102 (TYP.)

EXISTING SURVEY SURFACE LEVELS

INTERNAL INDICATIVE LEVELS

LEGEND - EXISTING SURVEY

80

SWD

W

E

OE

T

EXIST. SURVEY 0.5m CONTOUR INTERVAL

EXISTING STORMWATER DRAINAGE

EXISTING WATER

EXISTING SEWER

EXISTING UNDERGROUND ELECTRICAL

EXISTING OVERHEAD ELECTRICAL

EXISTING TELSTRA / COMMS

PAVEMENT LEGEND

PROPOSED AC ROAD PAVEMENT. REFER
PAVEMENT SPECIFICATION DRG. No.C335.

FUTURE AC ROAD PAVEMENT. REFER
PAVEMENT SPECIFICATION DRG. No.C335.

FUTURE CONCRETE VEHICULAR CROSSING
AND DRIVEWAY. LCC REFER IPWEA-QNT
STD. DRG. RSD-102

PROPOSED CONCRETE FOOTPATH LCC
REFER IPWEA-QNT STD. DRG. PCD-101.

PROPOSED CONCRETE SHARED CYCLEWAY/
FOOTPATH. LCC REFER IPWEA-QNT STD.
DRG. PCD-102 & 101

PROPOSED 100mm MEDIAN INFILL CONCRETE.
REFER IPWEA-QNT STD. DRG. PCD-101

FUTURE MEDIAN INFILL CONCRETE. REFER
PAVEMENT SPECIFICATION DRG. No.C335

PROPOSED TRAFFICABLE CONCRETE
PAVEMENT. REFER PAVEMENT SPECIFICATION
DRG. No.C335.

PROPOSED LANDSCAPED MEDIAN. REFER
IPWEA-QNT RSD-801, LCC AND LANDSCAPE
ARCHITECT.

NOTES / WARNINGS

1. REFER GENERAL NOTES SHEET DRG. No.C001

2. UNDERGROUND SERVICES EXISTING IN THIS AREA.

3. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.

01	ORIGINAL ISSUE	TM	05/26
ISSUE	DESCRIPTION	BY	DATE

ARCHITECT

SCALE (A1 SHEET)

2.5

0

2.5

5

1:125

SCALE

SCALES SHOWN ARE AT A1 SIZE

SURVEYOR

SIMPSON RAYNER SURVEYS
SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167
CADASTRAL LAND SURVEYORS, PLANNERS
AND LAND DEVELOPMENT CONSULTANTS
5/M53 Metroplex Avenue, MURARRIE QLD 4172
Telephone (07) 3899 8105 Fax: (07) 3899 8107
Email: info@srsurveys.com.au

CLIENT:

BLUEPOINT
PROPERTY

PROJECT TITLE:

COMMERCIAL DEVELOPMENT
CNR HOMESTEAD DR/HOLLOWS RD
FLAGSTONE QLD (STAGE 1)
LOTS 25007 & 25009 ON SP303120

APPROVAL ISSUE
NOT FOR CONSTRUCTION

APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD

APPROVED

GH

DESIGNER

TM/GH

CHECKER

AR

APPROVED

GH

Fe Friends
civil engineering

Friends Civil Engineering Pty Ltd
ABN 40 638 121 132
p. 0415 704 063 & 0422 024 440
e. contact@friendsengineer.com
w. friendsengineer.com

PO Box 614
BURLEIGH TOWN QLD 4220

FILENAME: C314-FE25032 - EXTERNAL ROADWORKS AND DRAINAGE SHEET 4 OF 6.DWG

DRAWING TITLE:

EXTERNAL ROADWORKS
AND DRAINAGE
PART PLAN
4 OF 6

PROJECT No.

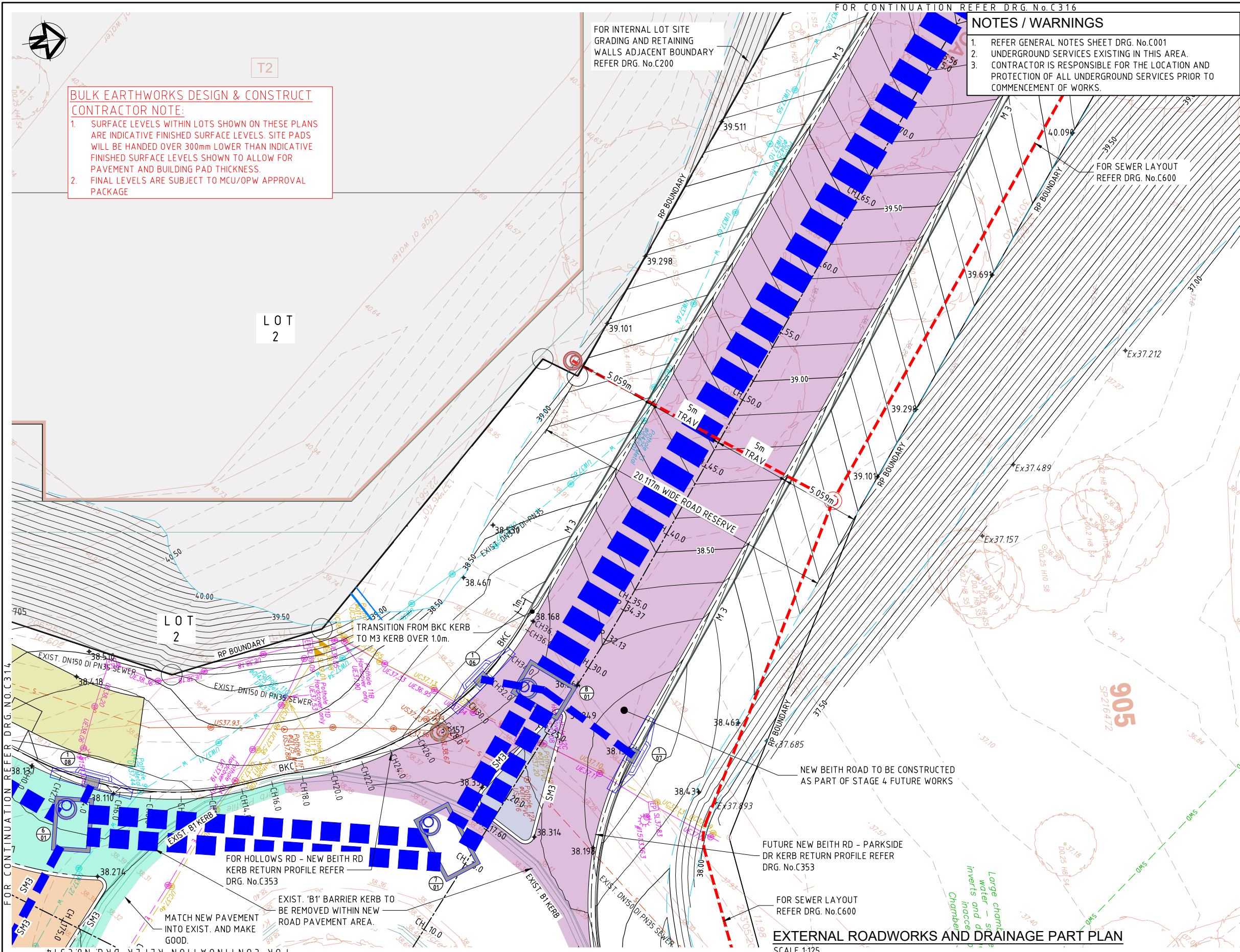
DRAWING No.

ISSUE

FE25032

C314

01



NOTES / WARNINGS

1. REFER GENERAL NOTES SHEET DRG. No.C001
2. UNDERGROUND SERVICES EXISTING IN THIS AREA.
3. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.

- LEGEND**
- SITE BOUNDARY
 - DESIGN CONTOUR 0.5m MAJOR INTERVALS
 - DESIGN CONTOUR MINOR 0.1m
 - DESIGN SURFACE LEVEL
 - PROP. STORMWATER NETWORK REFER DRG. No.C400
 - PROP. STORMWATER STRUCTURE LABEL
 - BARRIER KERB TYPE 'B2'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - BARRIER KERB TYPE 'B1' 450mm WIDE. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - MOUNTABLE KERB TYPE 'M3'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - DISH DRAIN TYPE 'CHANNEL 900mm WIDE'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - SEMI-MOUNTABLE KERB TYPE 'SM3'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - SEMI-MOUNTABLE KERB TYPE 'SMS'. LCC REFER IPWEA-QNT STD. DRG. RSD-200 (TYP.)
 - PROPOSED FOOTPATH. LCC REFER IPWEA-QNT STD. DRG. PCD-101-102 (TYP.)
 - EXISTING SURVEY SURFACE LEVELS
 - INTERNAL INDICATIVE LEVELS

- LEGEND - EXISTING SURVEY**
- EXIST. SURVEY 0.5m CONTOUR INTERVAL
 - EXISTING STORMWATER DRAINAGE
 - EXISTING WATER
 - EXISTING SEWER
 - EXISTING UNDERGROUND ELECTRICAL
 - EXISTING OVERHEAD ELECTRICAL
 - EXISTING TELSTRA / COMMS

- PAVEMENT LEGEND**
- PROPOSED AC ROAD PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
 - FUTURE AC ROAD PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
 - FUTURE CONCRETE VEHICULAR CROSSING AND DRIVEWAY. LCC REFER IPWEA-QNT STD. DRG. RSD-102
 - PROPOSED CONCRETE FOOTPATH LCC REFER IPWEA-QNT STD. DRG. PCD-101.
 - PROPOSED CONCRETE SHARED CYCLEWAY / FOOTPATH. LCC REFER IPWEA-QNT STD. DRG. PCD-102 & 101
 - PROPOSED 100mm MEDIAN INFILL CONCRETE. REFER IPWEA-QNT STD. DRG. PCD-101
 - FUTURE MEDIAN INFILL CONCRETE. REFER PAVEMENT SPECIFICATION DRG. No.C335
 - PROPOSED TRAFFICABLE CONCRETE PAVEMENT. REFER PAVEMENT SPECIFICATION DRG. No.C335.
 - PROPOSED LANDSCAPED MEDIAN. REFER IPWEA-QNT RSD-801, LCC AND LANDSCAPE ARCHITECT.

EXTERNAL ROADWORKS AND DRAINAGE PART PLAN
SCALE 1:125

01	ORIGINAL ISSUE	TM	05/26
ISSUE	DESCRIPTION	BY	DATE

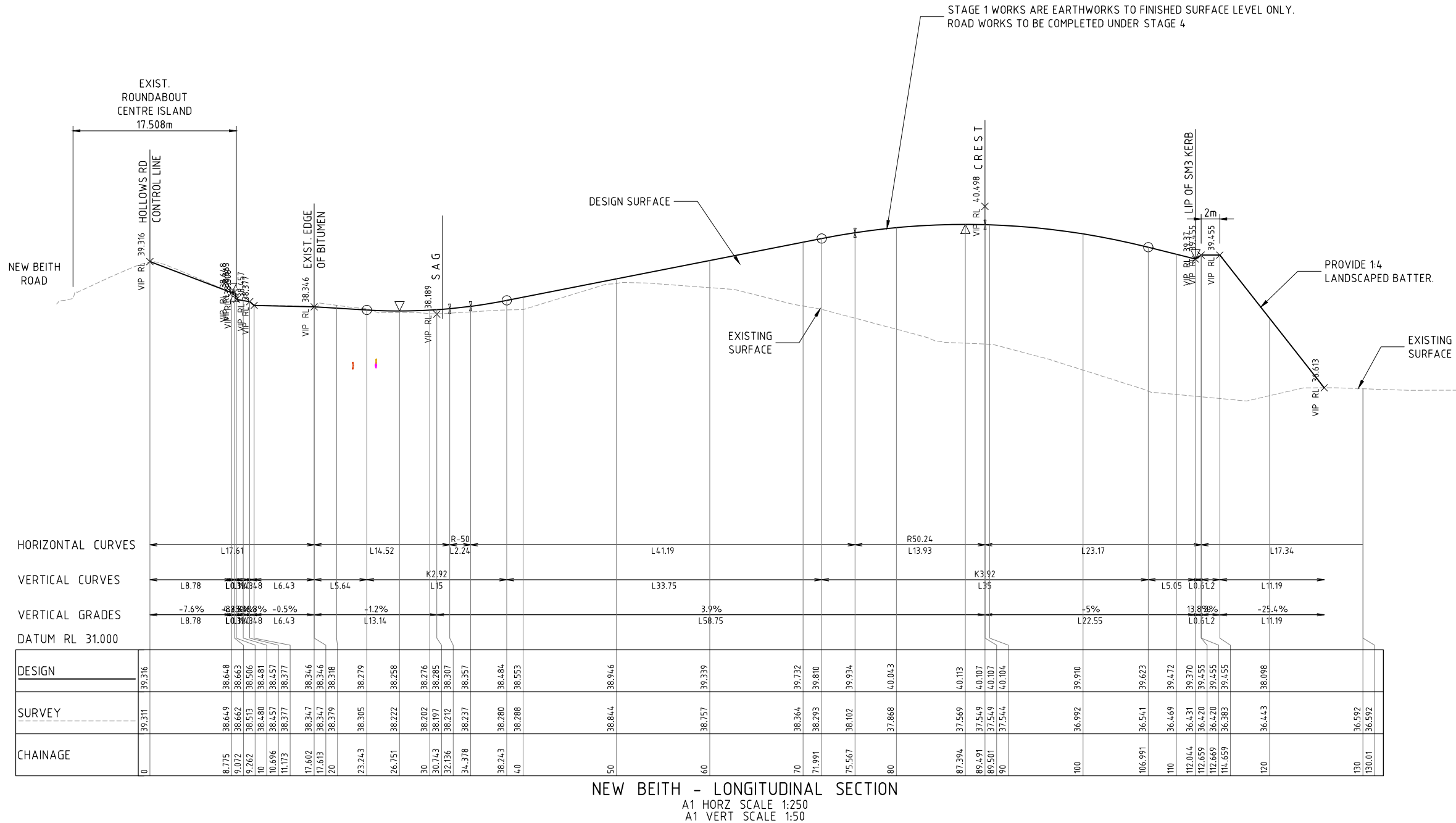
ARCHITECT	
SCALE (A1 SHEET)	2.5 0 2.5 5 1125 SCALE
SCALES SHOWN ARE AT A1 SIZE	

SURVEYOR	
<i>SIMPSON RAYNER SURVEYS</i> SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167 CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS 5/M53 Metroplex Avenue, MURARRIE QLD 4172 Telephone (07) 3899 8105 Fax: (07) 3899 8107 Email: info@srsurveys.com.au	

CLIENT:	BLUEPOINT PROPERTY
PROJECT TITLE:	COMMERCIAL DEVELOPMENT CNR HOMESTEAD DR/HOLLOWS RD FLAGSTONE QLD (STAGE 1) LOTS 25007 & 25009 ON SP303120

APPROVAL ISSUE NOT FOR CONSTRUCTION			
APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD			
R.P.E.Q. No : 24572		PROJECT TEAM	
HEIGHT DATUM	AHD	DESIGNER	TM/GH
GRID	MGA	CHECKER	AR
ORIGINAL SHEET SIZE	A1	APPROVED	GH

Fe Friends civil engineering		
Friends Civil Engineering Pty Ltd ABN 40 638 121 132 p. 0415 704 063 & 0422 024 440 e. contact@friendsengineer.com w. friendsengineer.com		
PO Box 614 BURLEIGH TOWN QLD 4220		
DRAWING TITLE: EXTERNAL ROADWORKS AND DRAINAGE PART PLAN 5 OF 6		
PROJECT No.	DRAWING No.	ISSUE
FE25032	C315	01

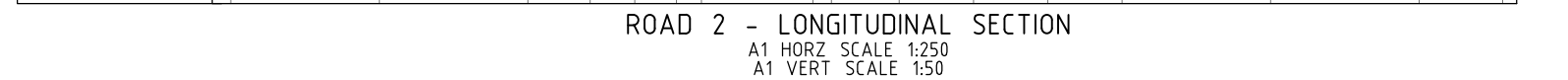
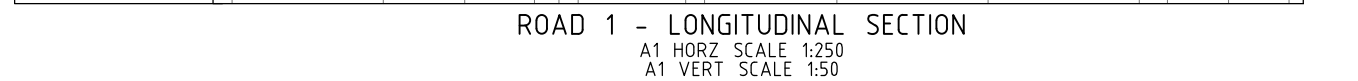


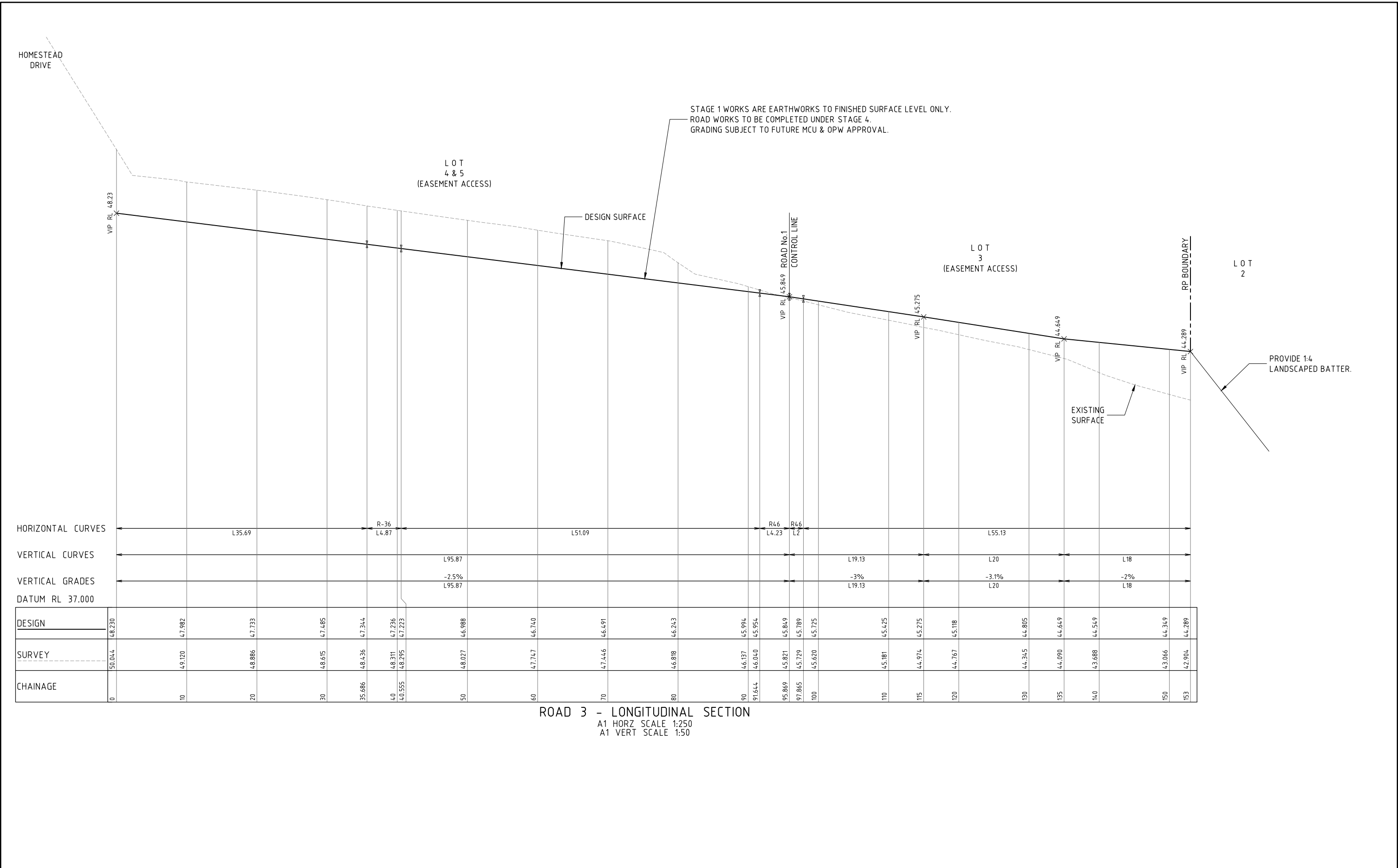
				ARCHITECT		SURVEYOR		CLIENT:		APPROVAL ISSUE NOT FOR CONSTRUCTION		Fe Friends civil engineering		DRAWING TITLE: NEW BEITH ROAD EXTENSION LONGITUDINAL SECTION					
						SIMPSON RAYNER SURVEYS SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167 CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS 5/M53 Metroplex Avenue, MURARRIE QLD 4172 Telephone (07) 3899 8105 Fax: (07) 3899 8107 Email: info@srsurveys.com.au		BLUEPOINT PROPERTY		APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD AR									
				SCALE (A1 SHEET)				PROJECT TITLE:		R.P.E.Q No : 24572		PROJECT TEAM		Friends Civil Engineering Pty Ltd ABN 40 638 121 132 p. 0415 704 063 & 0422 024 440 e. contact@friendsengineer.com w. friendsengineer.com		PROJECT No.			
01 ORIGINAL ISSUE				TM 05/26				COMMERCIAL DEVELOPMENT CNR HOMESTEAD DR/HOLLOWS RD FLAGSTONE QLD (STAGE 1) LOTS 25007 & 25009 ON SP303120		HEIGHT DATUM GRID		DESIGNER CHECKER		TM/GH AR		PO Box 614 BURLEIGH TOWN QLD 4220		DRAWING No.	
ISSUE DESCRIPTION				BY DATE		SCALE				ORIGINAL SHEET SIZE		APPROVED		GH		FILENAME: C321-FE25032 - NEW BEITH ROAD EXTENSION LONGITUDINAL SECTION.DWG		ISSUE	
				1 0 1 2 SCALE 1:50														FE25032	
				5 0 5 10 SCALE 1:250														C321	
				SCALES SHOWN ARE AT A1 SIZE														01	

100mm on A1 SIZE SHEET

G:\Shared Drives\Projects 2025\FE25032 - 14-22 Wild Mint Drive, Flagstone\CAD\DWG\C321-FE25032 - NEW BEITH ROAD EXTENSION LONGITUDINAL SECTION.DWG

FRIENDS CIVIL ENGINEERING® IS A REGISTERED TRADEMARK OF FRIENDS CIVIL ENGINEERING PTY LTD. © 2025 FRIENDS CIVIL ENGINEERING PTY LTD. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED, OR TRANSMITTED IN ANY FORM WITHOUT PRIOR WRITTEN CONSENT

[illegible]

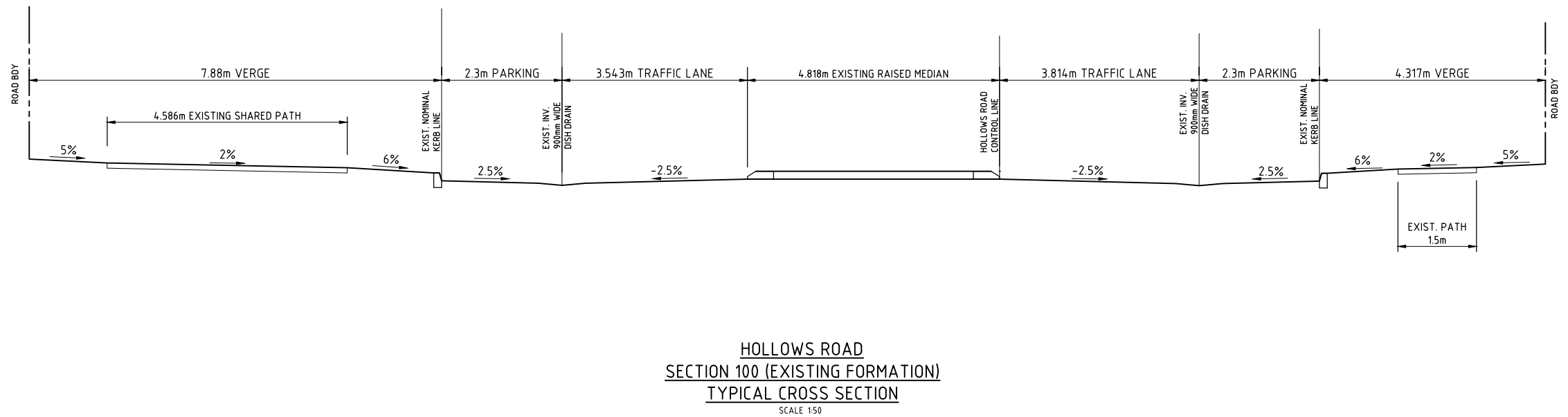
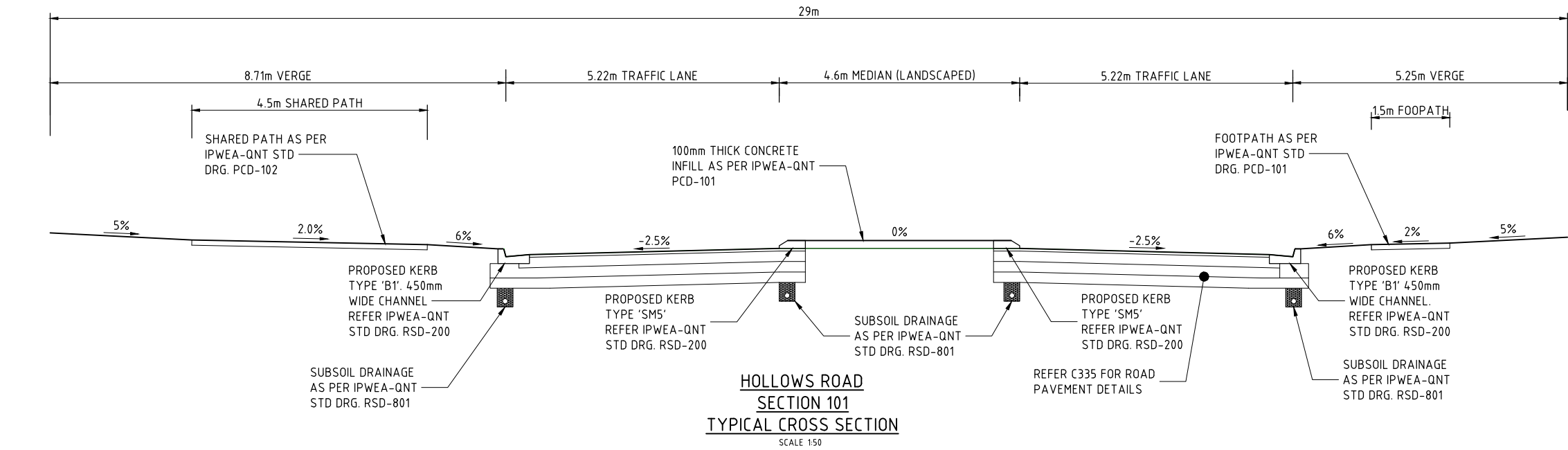


				ARCHITECT		SURVEYOR		CLIENT:		APPROVAL ISSUE NOT FOR CONSTRUCTION		Fe Friends civil engineering		DRAWING TITLE: ROAD No. 3 LONGITUDINAL SECTION	
						SIMPSON RAYNER SURVEYS SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167 CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS 5/M53 Metroplex Avenue, MURARRIE QLD 4172 Telephone (07) 3899 8105 Fax: (07) 3899 8107 Email: info@srsurveys.com.au		BLUEPOINT PROPERTY		APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD <i>AR</i>					
				SCALE (A1 SHEET)				PROJECT TITLE:		R.P.E.Q No : 24572		PROJECT TEAM		Friends Civil Engineering Pty Ltd ABN 40 638 121 132 p. 0415 704 063 & 0422 024 440 e. contact@friendsengineer.com w. friendsengineer.com	
				1 0 1 2 SCALE 1:50				COMMERCIAL DEVELOPMENT CNR HOMESTEAD DR/HOLLOWS RD FLAGSTONE QLD (STAGE 1) LOTS 25007 & 25009 ON SP303120		HEIGHT DATUM AHD		DESIGNER TM/GH		Burleigh Town QLD 4220	
				5 0 5 10 SCALE 1:250						GRID MGA		CHECKER AR		PO Box 614	
01 ORIGINAL ISSUE		TM 05/26		SCALES SHOWN ARE AT A1 SIZE						ORIGINAL SHEET SIZE A1		APPROVED GH		FILENAME: C323-FE25032 - ROAD 3 LONGITUDINAL SECTION.DWG	
ISSUE DESCRIPTION		BY DATE												BURLEIGH TOWN QLD 4220	

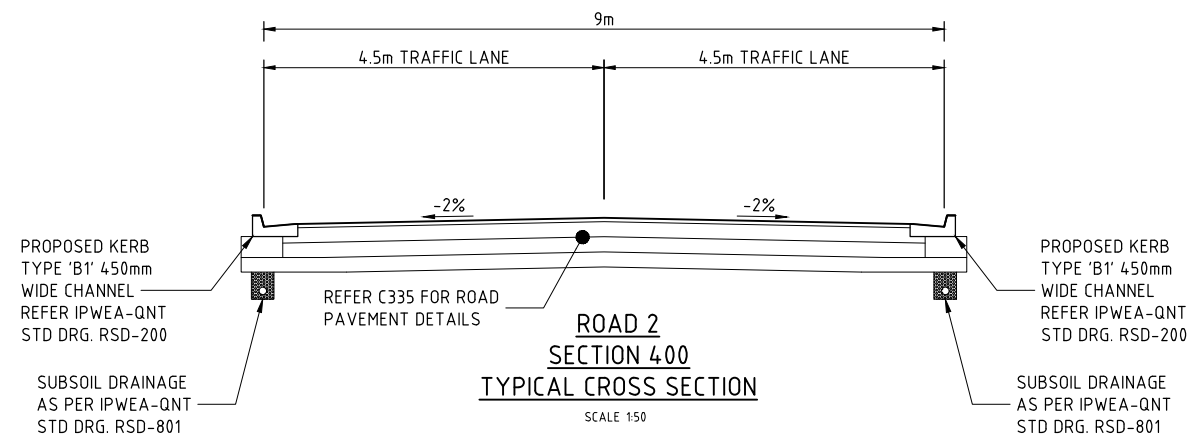
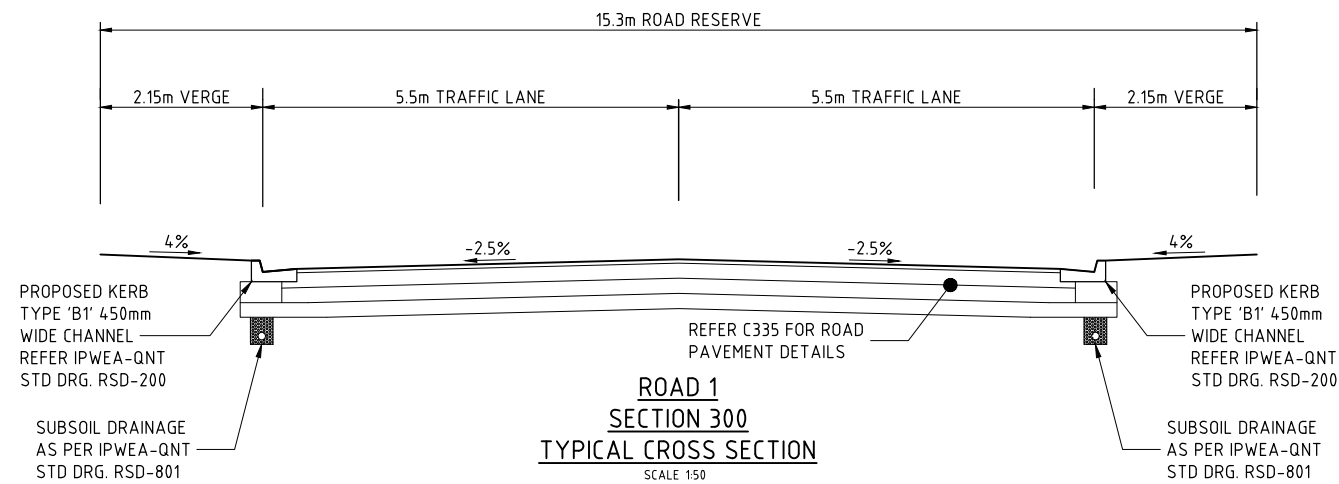
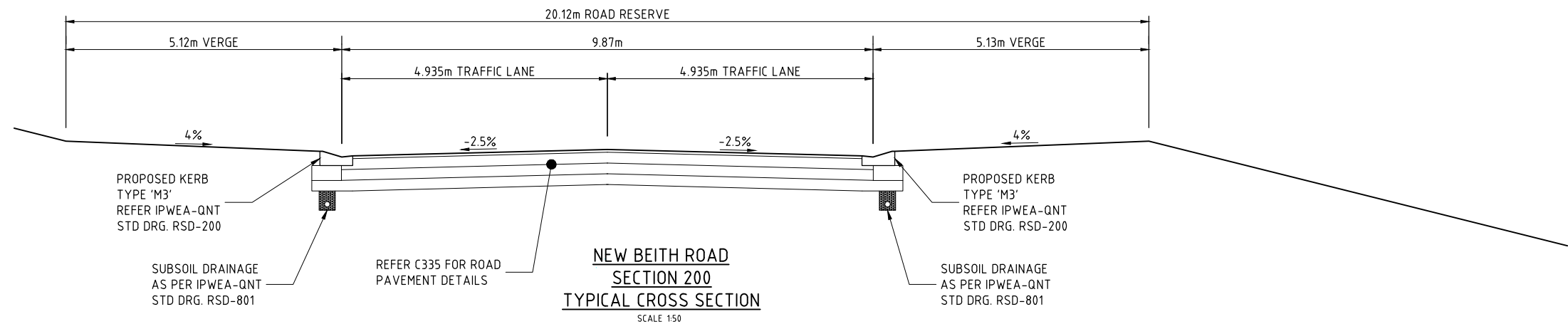
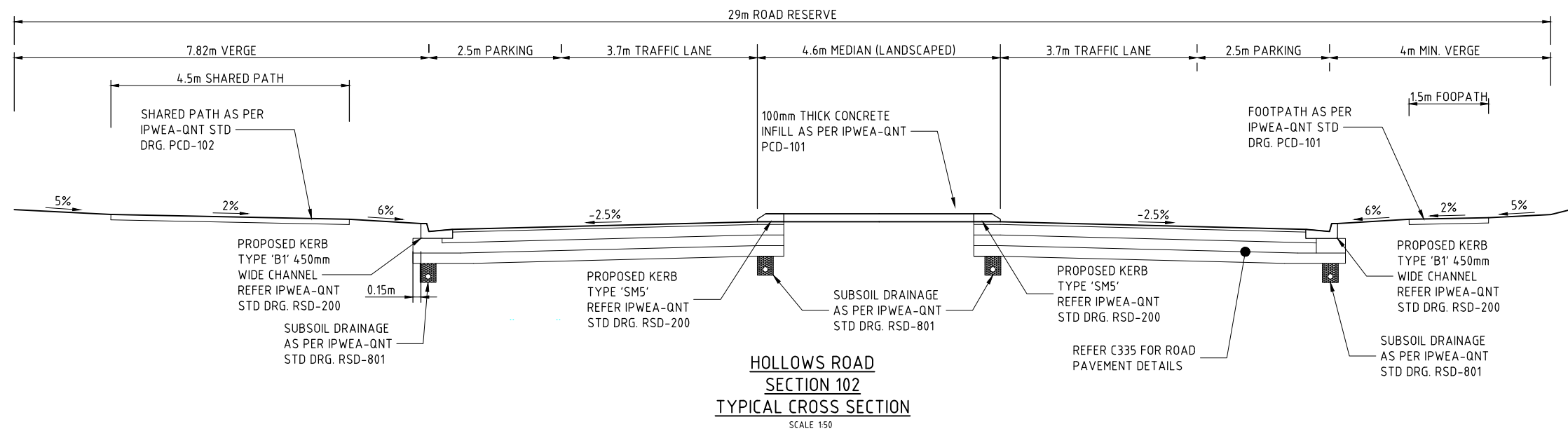
100mm on A1 SIZE SHEET

G:\Shared Drives\Projects 2025\FE25032 - 14-22 Wild Mint Drive, Flagstone\CAD\OPW\C323-FE25032 - ROAD 3 LONGITUDINAL SECTION.dwg

FRIENDS CIVIL ENGINEERING IS A REGISTERED TRADEMARK OF FRIENDS CIVIL ENGINEERING PTY LTD. © 2025 FRIENDS CIVIL ENGINEERING PTY LTD. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED, OR TRANSMITTED IN ANY FORM WITHOUT PRIOR WRITTEN CONSENT



--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



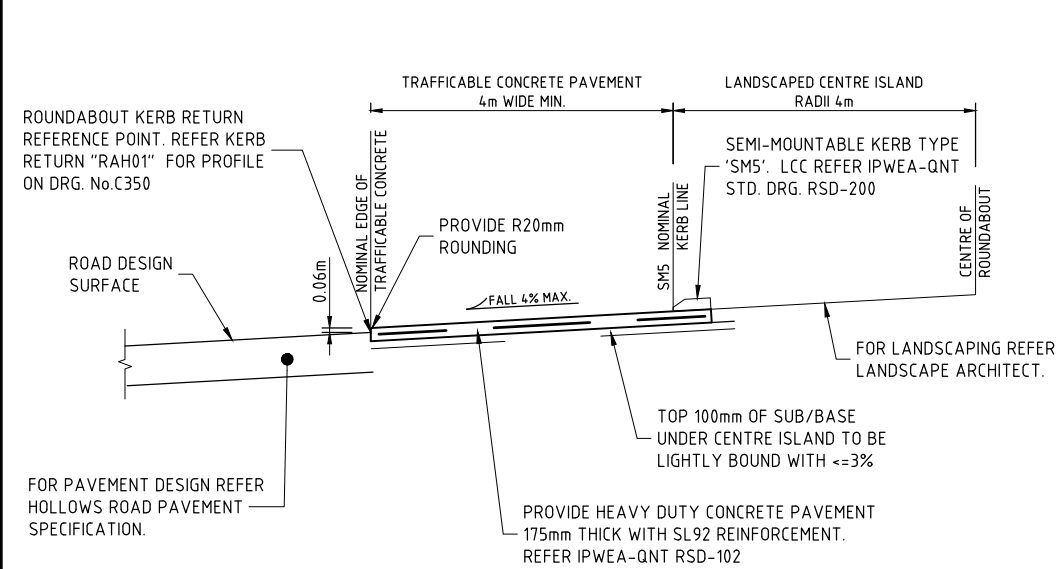
				ARCHITECT	SURVEYOR		CLIENT:	APPROVAL ISSUE NOT FOR CONSTRUCTION		FeFriendscivil engineering		DRAWING TITLE:		
					SIMPSON RAYNER SURVEYS SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167 CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS 5/M53 Metroplex Avenue, MURARRIE QLD 4172 Telephone (07) 3899 8105 Fax: (07) 3899 8107 Email: info@srsurveys.com.au		BLUEPOINT PROPERTY	APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD				TYPICAL ROAD CROSS SECTIONS AND DETAILS SHEET 2		
				SCALE (A1 SHEET)			PROJECT TITLE:	AREALIA		Friends Civil Engineering Pty Ltd ABN 40 638 121 132 p. 0415 704 063 & 0422 024 440 e. contact@friendsengineer.com w. friendsengineer.com		PROJECT No.	DRAWING No.	ISSUE
01	ORIGINAL ISSUE	BS	05/26	1000mm on A1 SIZE SHEET 100m SCALE 100m 100										



- NOTES / WARNINGS**
- UNDERGROUND SERVICES EXISTING IN THIS AREA.
 - CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS.



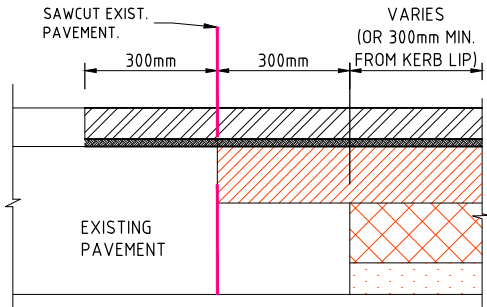
- PAVEMENT NOTES**
- ASSUMED DESIGN CBR VALUE = 3.0
(TO BE CONFIRMED ON SITE DURING CONSTRUCTION)
 - FOR ROAD PAVEMENT DESIGN REFER PAVEMENT SPECIFICATION.
 - ALL SUBGRADES TO BE PROOF ROLLED & APPROVED BY ENGINEER.
 - ASPHALT MIX TO BE 14mm DENSE GRADED MIX FOR ALL ROADS.
 - SUB-BASE & BASECOURSE CAN BE CONSTRUCTED OF NGS50 IN LIEU OF DGS & DGB.
 - ASSUMED DESIGN CBR 3% TO BE CONFIRMED ONSITE BY A MINIMUM OF SIX 4 DAY SOAKED CBR TESTS WITH BOUNDARIES AND PLASTIC LIMITS DURING THE BOXING OUT FOR THE PAVEMENT. NO PAVEMENT MATERIALS ARE TO BE PLACED UNTIL THE DESIGN CBR IS CONFIRMED AND THE SUBGRADE INSPECTED BY A GEOTECHNICAL ENGINEER TO CONFIRM THE CONSISTENCY OF MATERIALS.
 - PRIOR TO THE PLACEMENT OF THE PRIMER SEAL AND AFTER THE DESIRED DENSITY IS ACHIEVED, THE PAVEMENT IS TO BE ALLOWED TO DRY BACK TO APPROXIMATELY 60% TO 70% OPTIMUM MOISTURE CONTENT.
 - COMPACTION TESTS ARE TO BE UNDERTAKEN FOR ALL PAVEMENT LAYERS INCLUDING SUBGRADE AT A RATE TO BE DETERMINED BY THE SUPERVISING ENGINEER & THE RESULTS TO BE SUPPLIED TO THE ENGINEER PRIOR TO PLACEMENT OF THE NEXT PAVEMENT LAYER.
 - FINAL PAVEMENT DESIGN IS SUBJECT TO APPROVAL BY CITY of LOGAN.



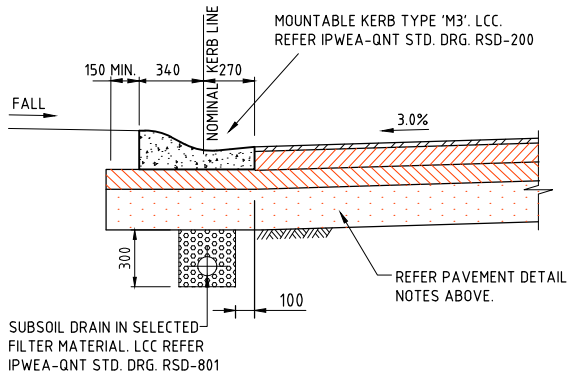
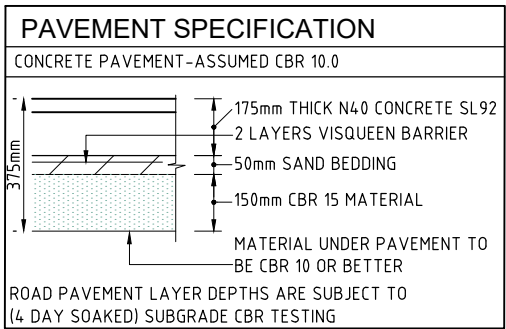
**MOUNTABLE TRAFFICABLE CONCRETE
ROUNDABOUT ISLAND DETAIL**

SECTION
SCALE 1:50

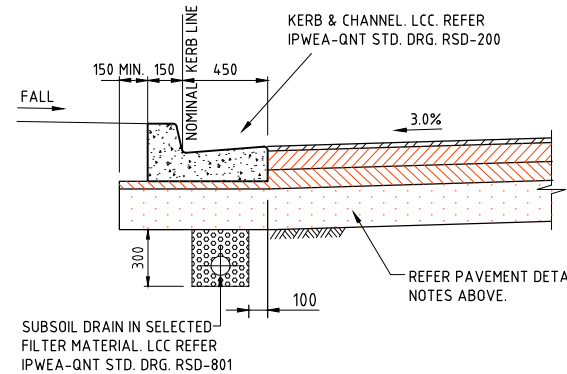
Z?
??



CONNECTION TO EXISTING PAVEMENT

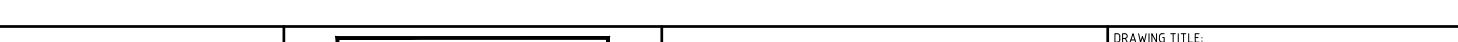
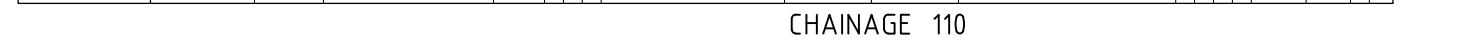
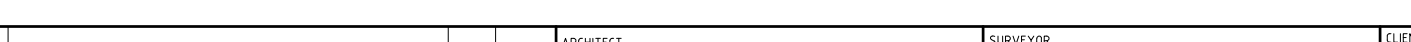
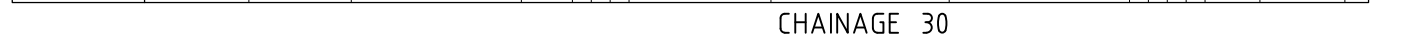


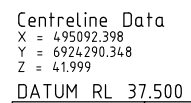
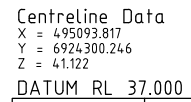
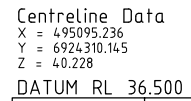
TYPICAL ROAD PAVEMENT DETAIL
SCALE 1 : 20



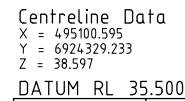
TYPICAL ROAD PAVEMENT DETAIL
SCALE 1 : 20

				ARCHITECT		SURVEYOR		CLIENT:		APPROVAL ISSUE NOT FOR CONSTRUCTION		Fe Friends civil engineering		DRAWING TITLE:	
						SIMPSON RAYNER SURVEYS SIMPSON RAYNER SURVEYS PTY LTD A.C.N. 078 818 167 CADASTRAL LAND SURVEYORS, PLANNERS AND LAND DEVELOPMENT CONSULTANTS 5/M53 Metroplex Avenue, MURARRIE QLD 4172 Telephone (07) 3899 8105 Fax. (07) 3899 8107 Email: info@srsurveys.com.au		BLUEPOINT PROPERTY		APPROVED FOR AND ON BEHALF OF FRIENDS CIVIL ENGINEERING PTY LTD ARcoulson		Friends Civil Engineering Pty Ltd ABN 40 638 121 132 p. 0415 704 063 & 0422 024 440 e. contact@friendsengineer.com w. friendsengineer.com		TYPICAL ROAD PAVEMENT DETAILS	
				SCALE (A1 SHEET)				PROJECT TITLE:		R.P.E.Q No : 24572		PROJECT TEAM		PROJECT No.	
								COMMERCIAL DEVELOPMENT CNR HOMESTEAD DR/HOLLOWS RD FLAGSTONE QLD (STAGE 1) LOTS 25007 & 25009 ON SP303120		HEIGHT DATUM		DESIGNER		DRAWING No.	
										GRID		CHECKER		ISSUE	
				SCALE						ORIGINAL SHEET SIZE		APPROVED		FE25032	
				SCALES SHOWN ARE AT A1 SIZE						FILENAME: C335-FE25032 - ROAD PAVEMENT DETAILS.DWG		GH		C335	
														01	

[illegible]



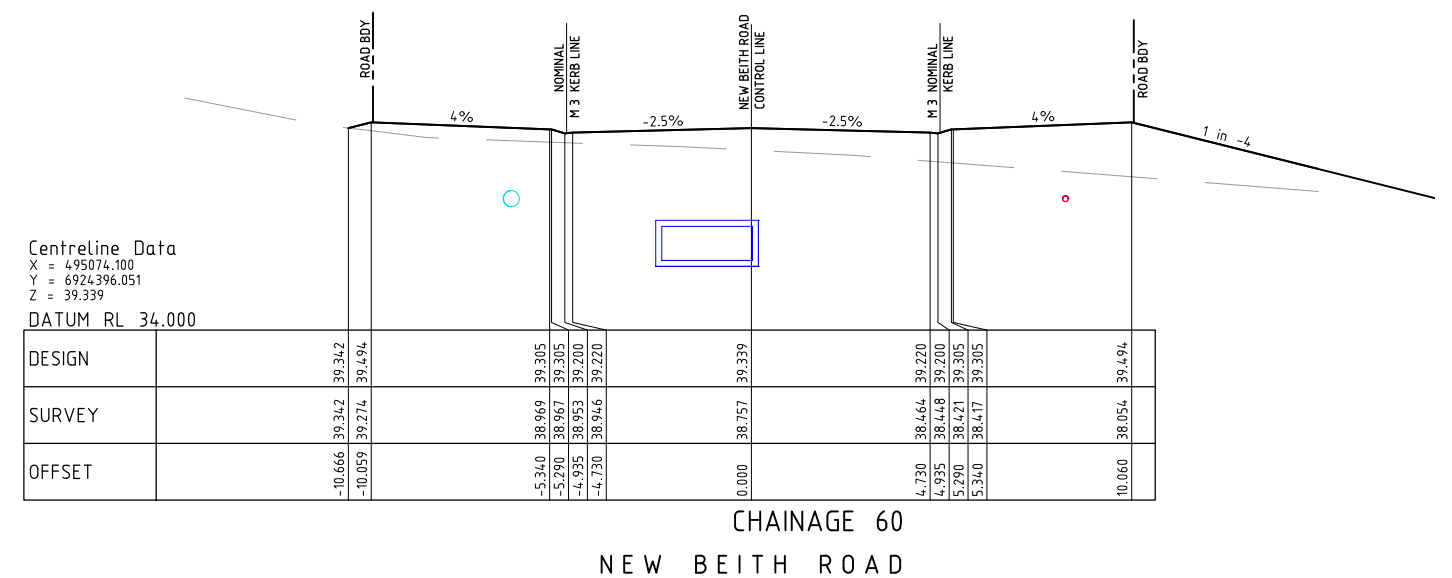
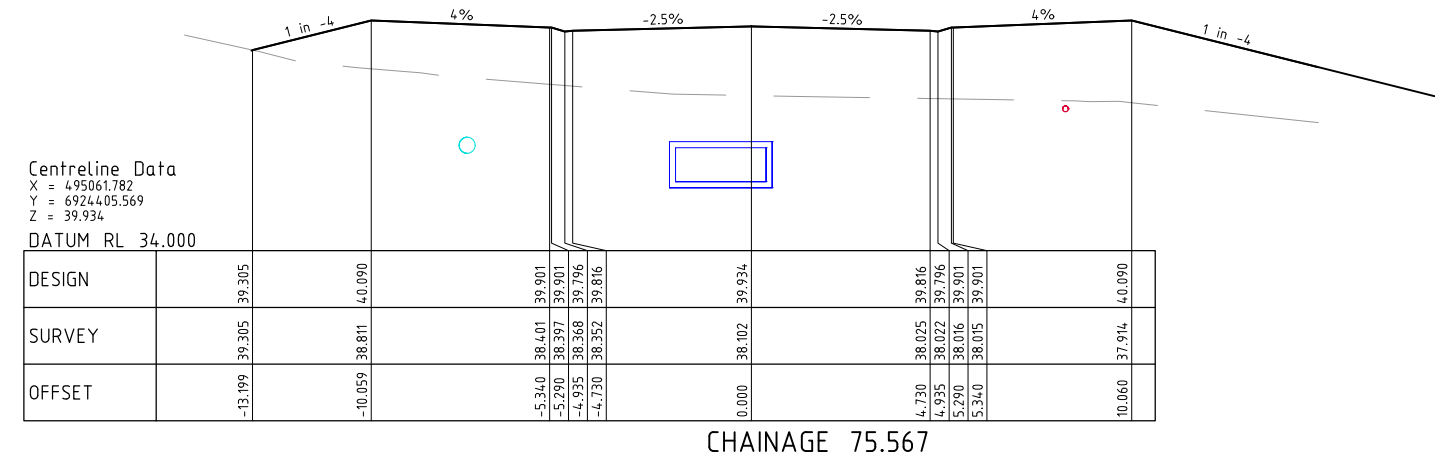
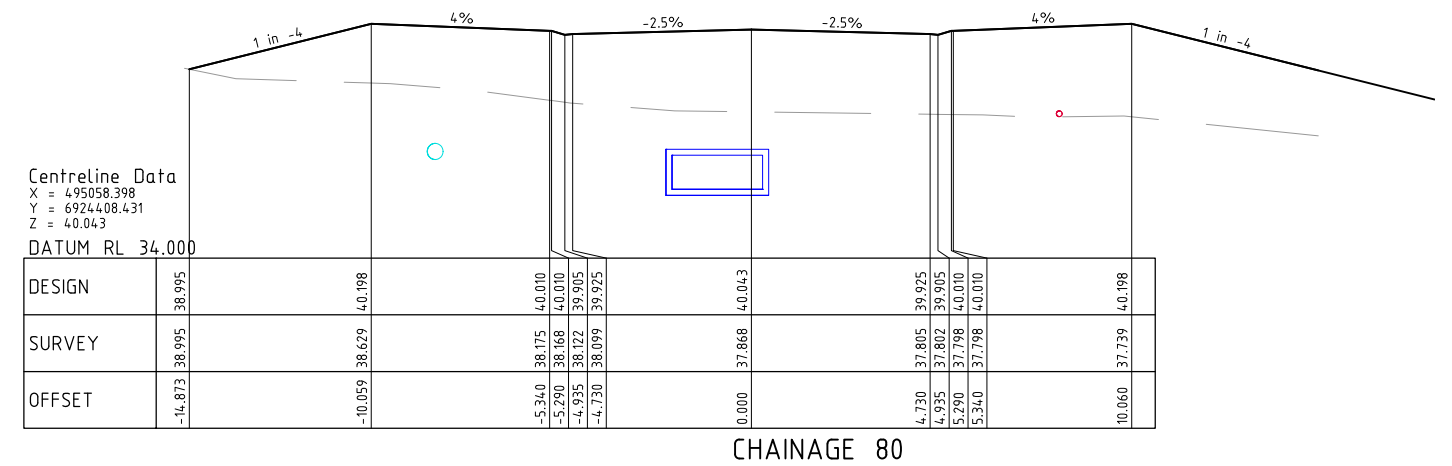
100mm on A1 SIZE SHEET G:\Shared Drives\Projects 2025\FE25032 - 14-22 Wild Mtn Driv, Flagstone\CAD\OPW\C341-FE25032 - HOLLOW'S ROAD CROSS SECTIONS SHEET 2 OF 3.dwg FRIENDS CIVIL ENGINEERING • IS A REGISTERED TRADEMARK OF FRIENDS CIVIL ENGINEERING PTY LTD. © 2025 FRIENDS CIVIL ENGINEERING PTY LTD. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED, OR TRANSMITTED IN ANY FORM WITHOUT PRIOR WRITTEN CONSENT



DESIGN	40.777	39.562	39.471	39.381	39.300	39.300	39.150	39.334	39.334	39.334	39.190	39.411	39.470	40.002
SURVEY	40.777	41.045	41.042	40.554	40.434	40.435	40.421	40.166	40.041	39.968	39.788	39.682	39.908	40.002
OFFSET	-21.183	-16.325	-14.500	-10.000	-8.650	-8.540	-8.500	-2.294	0.000	2.300	-8.050	-11.500	12.675	14.805

Centreline Data
X = 495096.812
Y = 6924320.016
Z = 39.334
DATUM RL 36.000

100mm on A1 SIZE SHEET G:\Shared Drives\Projects 2025\FE25032 - 14-22 Wild Mint Drive, Flagstone\CAD\0PWA\C342-FE25032 - HOLLOWS ROAD CROSS SECTIONS SHEET 3 OF 3.dwg FRIENDS CIVIL ENGINEERING® IS A REGISTERED TRADEMARK OF FRIENDS CIVIL ENGINEERING PTY LTD. © 2025 FRIENDS CIVIL ENGINEERING PTY LTD. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED, OR TRANSMITTED IN ANY FORM WITHOUT PRIOR WRITTEN CONSENT.

[illegible]