

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2017/887

Date: 4 May 2018



LINE #2		
Existing Surface Level	RL 38.75	
Design Surface Level		RL 37.4
Main Size	225mm	300mm
Assumed IL	RL 37.50	RL 33.3
Main Length to SPS	950m	260m
Assumed Grade	1 in 300	1 in 400
Pipe Fall	3.2m	0.7m
Structure Drops	1.0m	0.3m
Total Drop Fall Main	4.2m	1.0m
Minimum IL at 300mm	RL 33.3	
Minimum IL Required at SPS		RL 32.3

LINE #4		
Controlled by Bridge Level		
Bridge Design Level	RL 33.8	
Main Size	150mm	
Assumed IL	RL 32.8	
Main Length From Bridge	400m	
Assumed Grade	1 in 180	
Pipe Fall	2.3m	
Structure Drops	0.4m	
Total Drop Fall Main	2.7m	
Minimum IL at Low Point	RL 35.5	
Required Design Level at Low Point	RL 36.7	
Existing Surface Level	RL 35.75	

LINE #3		
Controlled by Bridge Level		
Bridge Design Level	RL 33.8	
Main Size	150mm	
Assumed IL	RL 32.8	
Main Length From Bridge	300m	
Assumed Grade	1 in 180	
Pipe Fall	1.7m	
Structure Drops	0.3m	
Total Drop Fall Main	2.0m	
Minimum IL at Low Point	RL 34.8	
Required Design Level at Low Point	RL 36.0	
Existing Surface Level	RL 30.0	

THE BRIDGE IS THE CONTROLLING FACTOR FOR SEWER TO PROPERTIES NORTH OF CREEK. THE PRELIMINARY DESIGN SURFACE OF THE BRIDGE IS RL 33.8. THEREFORE THE ASSUMED INVERT LEVEL OF THE SEWER IS RL32.8
ALTERNATIVE: AERIAL SEWER CROSSING.

PROPOSED SEWER PUMP STATION
EXISTING SURFACE RL 30 - 32

ALIGNMENT TO FOLLOW CONTOUR IN
OPEN SPACE TO MINIMISE DEPTH

ALIGNMENT TO FOLLOW CONTOUR IN
OPEN SPACE TO MINIMISE DEPTH

LOW POINT RL 33.5

HIGH POINT
PRELIM DESIGN SURFACE RL 44.0

HIGH POINT EXISTING
SURFACE LEVEL RL 36.5

LOW POINT RL 30.0

LOW POINT RL 30.0

LINE #5		
Design Surface Level	RL 43.6	RL 37.4
Main Size	150mm	225mm
Assumed IL	RL 42.4	RL 36.2
Main Length to Line #2	875m	90m
Assumed Grade	1 in 180	1 in 300
Pipe Fall	4.9m	0.3m
Structure Drops	0.9m	0.1m
Total Drop Fall Main	5.8m	0.4m
Minimum IL at 225mm	RL 36.6	
Minimum IL Required at Join to Line #2		RL 35.8

LINE #1		
Existing Surface Level	RL 34.75	
Main Size	150mm	
Assumed IL	RL 33.50	
Main Length to SPS	820m	
Assumed Grade	1 in 180	
Pipe Fall	4.6m	
Structure Drops	0.8m	
Total Drop Fall Main	5.4m	
Minimum IL Required at SPS	RL 28.1	

LEGEND

APPROXIMATE SEWER

NOTE:

1. INDICATIVE ALIGNMENT SHOWN, FINAL ALIGNMENT SUBJECT TO DESIGN AND APPROVAL.
2. IT IS ASSUMED THE LOW AND HIGH POINTS ON SURROUNDING DEVELOPMENTS SITES WILL PERFORM EARTHWORKS TO ENABLE SERVICING THROUGH THESE LOCATIONS.

PROJECT NAME

MOUNTAIN
RIDGE

OVERALL

RP DESCRIPTION
Lot 6 RP193185
& Lot 9 SP203507

CLIENT

MOUNTAIN
RIDGE ROAD
PTY / LTD



0 30 60 90 120 150m
Scale 1:3000 - A1 (1:6000 - A3)

ISSUES	DATE
TENDER	
COUNCIL	
CONSTRUCTION	

PRE	DATE	AMENDMENT
A	21-09-17	FOR COMMENT

COPYRIGHT IS VESTED IN MORTONS URBAN SOLUTIONS AND WRITTEN CONSENT IS REQUIRED PRIOR TO REPRODUCTION. COPYRIGHT MORTONS URBAN SOLUTIONS 2000.
DO NOT SCALE FROM THIS DRAWING.

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH 001-NOTES AND 002-LEGEND

ASSOCIATED CONSULTANTS



DRAWING TITLE

PRELIMINARY
SEWER CATCHMENT
STRATEGY



MUS Pty Ltd T/As:
Mortons-Urban Solutions
ABN: 39 116 375 065
mortons@urbansolutions.net.au
www.urbansolutions.net.au
Tel: 07 5571 1099
Fax: 07 5571 1088

Postal Address
PO Box 2484
Southport QLD 4215

Gold Coast Office
Suite 9, 19 Short St
Southport QLD 4215

DESIGNED	PP	DRAWN	CB
APPROVED		REQ	DATE 21-09-17

DRAWING NUMBER
29301-ALL-S506

AMEND.
A