



ENGINEER'S CERTIFICATION

I, _____, hereby certify that:
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 2. The new water and sewerage works defined by this drawing have been designed and constructed in accordance with the SEQ Code.
 3. This represents an accurate record of as-constructed works.
 4. I accept responsibility for the information contained in this drawing / document.

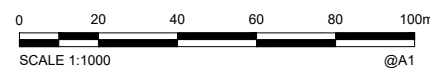
RPEQ (signature) RPEQ No. _____ Date: _____

AS CONSTRUCTED

REGISTERED SURVEYOR'S CERTIFICATION

I, Gordon Nicholson, hereby certify that the vertical and horizontal locations and dimensions shown on this plan are a true and correct record and were located by survey.

Registered Surveyor (sig.) Reg. Surveyor No. SA 3405 Date: 09/02/2023



COORDINATE DATUM NOTE:
 HORIZONTAL COORDINATES(E,N) SUPPLIED ARE MAPPING GRID OF AUSTRALIA(MGA), ZONE 56 BASED ON THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION AND THE GEOCENTRIC DATUM OF AUSTRALIA 1994.
 HORIZONTAL DATUM DERIVED FROM PSM 61308 E 498528.114 N 6931171.033.
 LEVELS SUPPLIED ARE ON THE AUSTRALIAN HEIGHT DATUM(AHD)
 LEVEL DATUM DERIVED FROM PSM 61308 RL54.660 (AHD)

A1

INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
A	09/02/2023	AS CONSTRUCTED	RDE	DAM	LS		09/02/2023
							09/02/2023
							09/02/2023

Shadforth
 50 Washwood Lane, Forest Glades QLD 4055
 Ph: 07 6488 3300 Fax: 07 6488 3388 Email: shadforth@shadforth.com.au

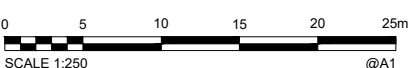
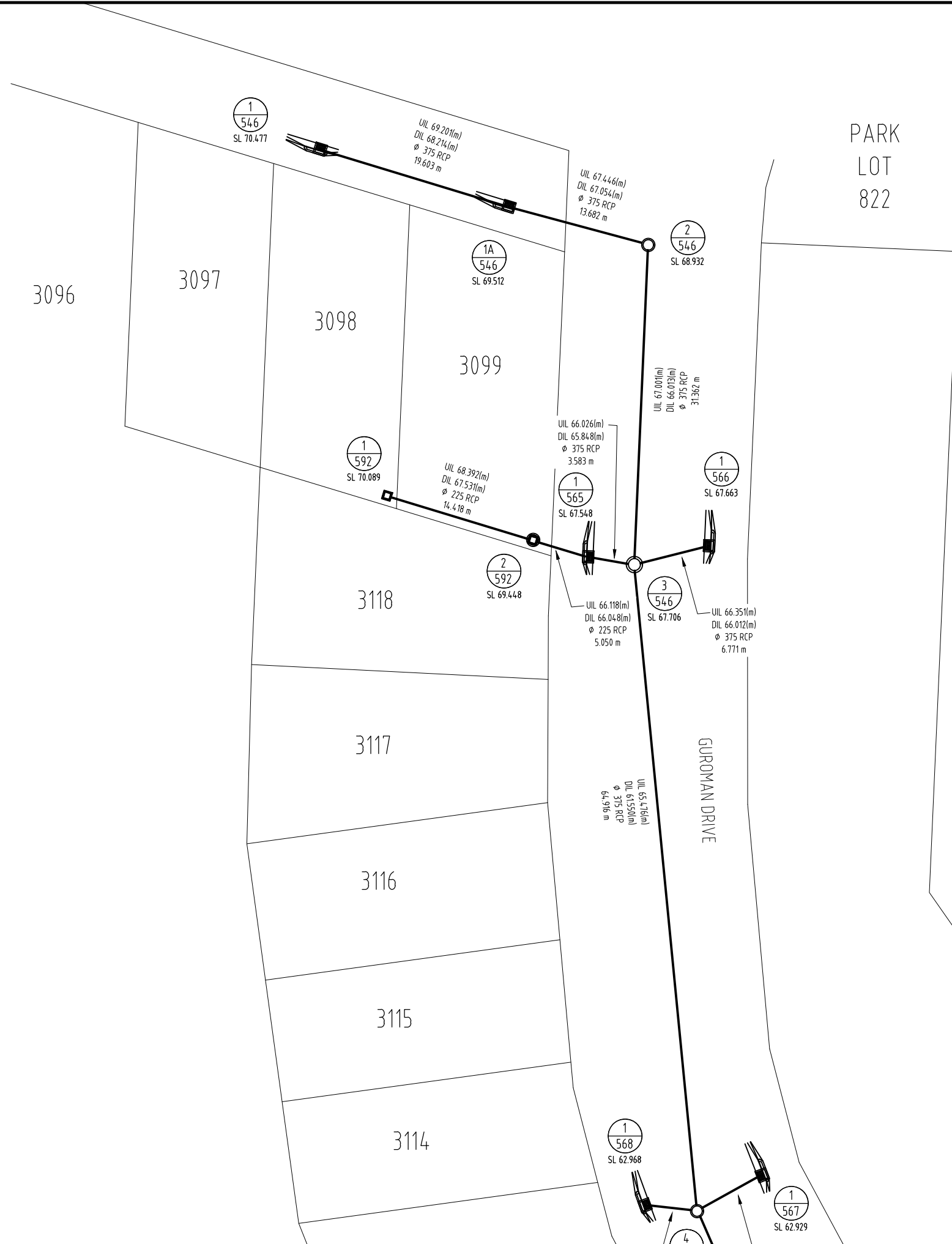
LOGAN
 CITY COUNCIL

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MIRVAC MIR003-09
 AS CONSTRUCTED SURVEY - STORMWATER
 EVERLEIGH PRECINCT 9.3C
 GREENBANK QLD

SHEET 1 OF 6 SHEETS	SCALE 1:1000 A1
REVISION DATE 09/02/2023	REVISION A
DISCIPLINE CODE -	
DRAWING NO. ASC-STORM-01-9.3C	

PM61308 RL
 E: 498528.114
 N: 6931171.033
 RL: 54.660m



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REGISTERED SURVEYING ASSOCIATE CERTIFICATION
 I, Gordon Nicholson, hereby certify that the vertical and horizontal locations and dimensions shown on this plan are a true and correct record and were located by survey.

 Registered Surveying Surveyor No. SA 34.05 Date: 09/02/2023
 Associate(sig)

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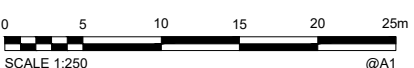
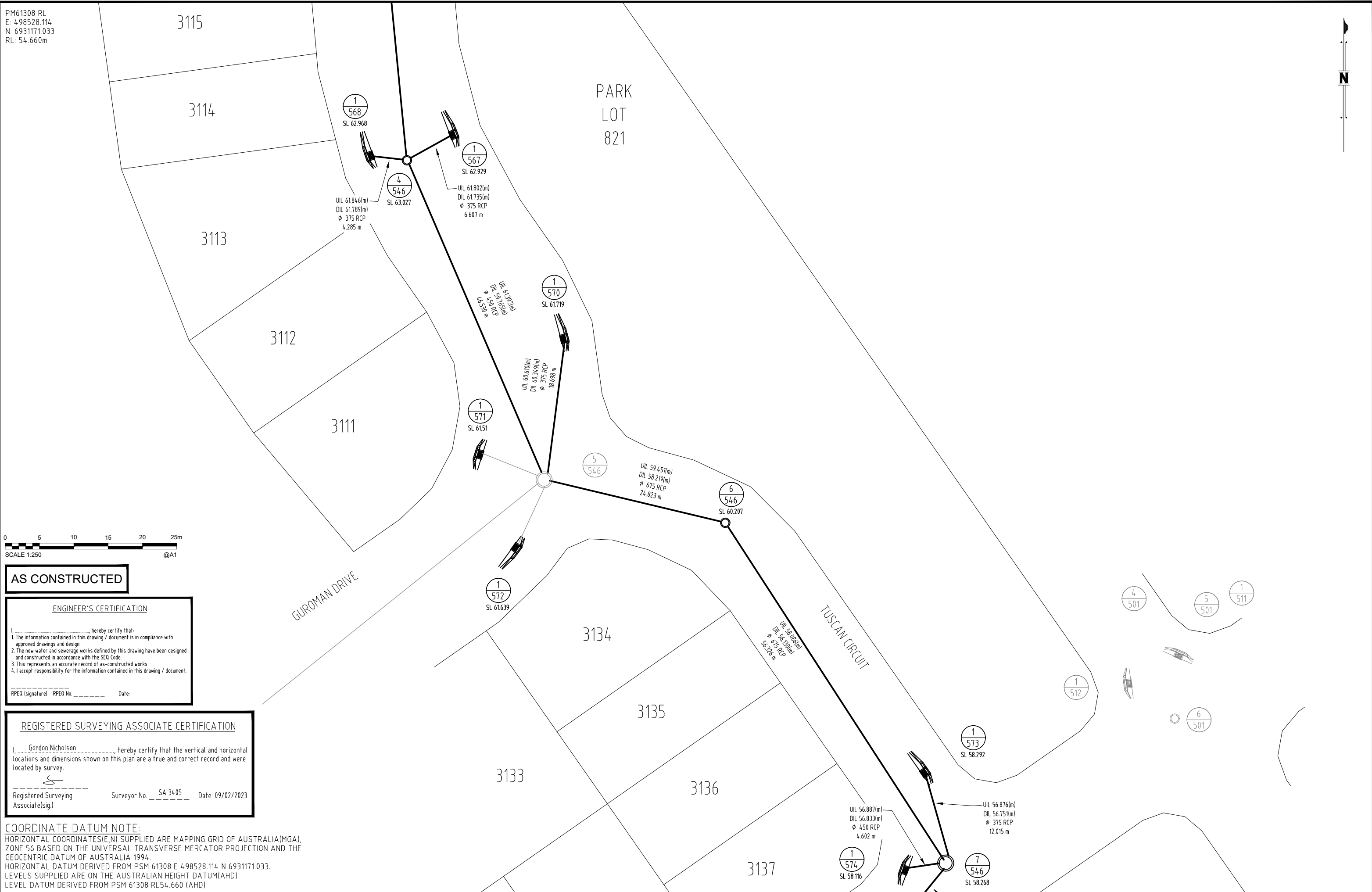
A1	INDEX	DATE	REVISIONS	DRAWN	CHECKED	PASSED	INITIALS	DATE
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LOGAN CITY COUNCIL
 MIRVAC MIR003-09
 AS CONSTRUCTED SURVEY - STORMWATER
 EVERLEIGH PRECINCT 9.3C
 GREENBANK QLD

SHEET 2 OF 6 SHEETS	SCALE 1:250 A1
REVISION DATE 09/02/2023	REVISION A
DISCIPLINE CODE -	
DRAWING NO. ASC-STORM-02-9.3C	

PM61308 RL
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 N: 6931171.033
 RL: 54.660m



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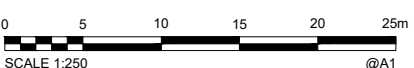
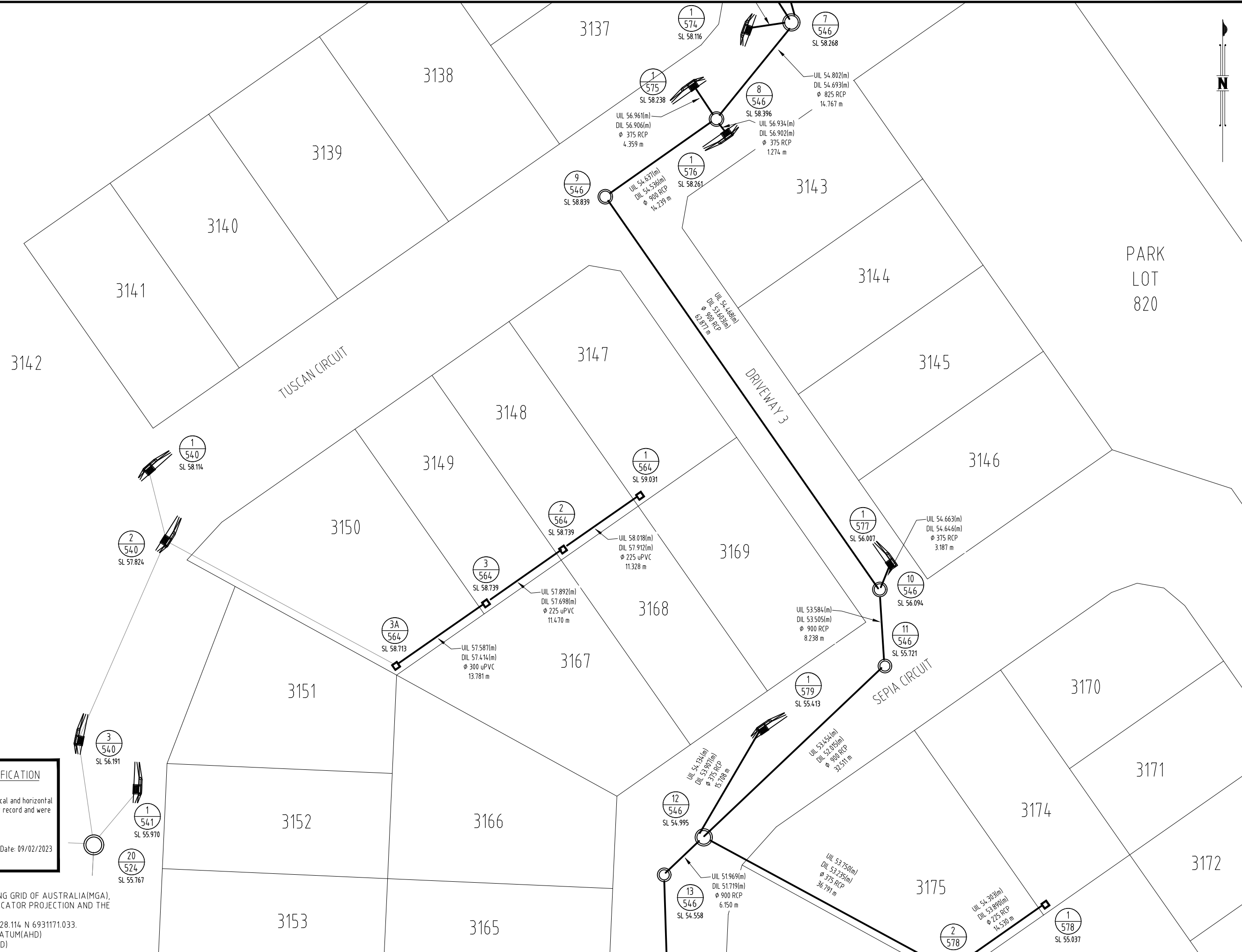
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							PASSED	LS	09/02/2023
								INITIALS	DATE



LOGAN CITY COUNCIL
 MIRVAC MIR003-09
 AS CONSTRUCTED SURVEY - STORMWATER
 EVERLEIGH PRECINCT 9.3C
 GREENBANK QLD

SHEET 3 OF 6 SHEETS	SCALE 1:250 A1
REVISION DATE 09/02/2023	REVISION A
DISCIPLINE CODE -	
DRAWING NO. ASC-STORM-03-9.3C	

PM61308 RL
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 N: 6931171.033
 RL: 54.660m



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	A	09/02/2023	AS CONSTRUCTED	RDE	DAM	LS	CHECKED	DAM	09/02/2023
							PASSED	LS	09/02/2023
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LOGAN CITY COUNCIL
 MIRVAC MIR003-09
 AS CONSTRUCTED SURVEY - STORMWATER
 EVERLEIGH PRECINCT 9.3C
 GREENBANK QLD

SHEET 4 OF 6 SHEETS	SCALE 1:250 A1
REVISION DATE 09/02/2023	REVISION A
DISCIPLINE CODE -	
DRAWING NO. ASC-STORM-04-9.3C	

PM61308 RL
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 RL: 54.660m



0 5 10 15 20 25m
 SCALE 1:250 @A1

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RPQC (signature) RPQC No. _____ Date: _____

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							PASSED	LS	09/02/2023

DRAWN	RDE	09/02/2023
CHECKED	DAM	09/02/2023
PASSED	LS	09/02/2023
INITIALS	DATE	

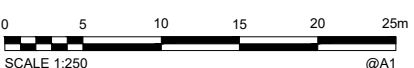
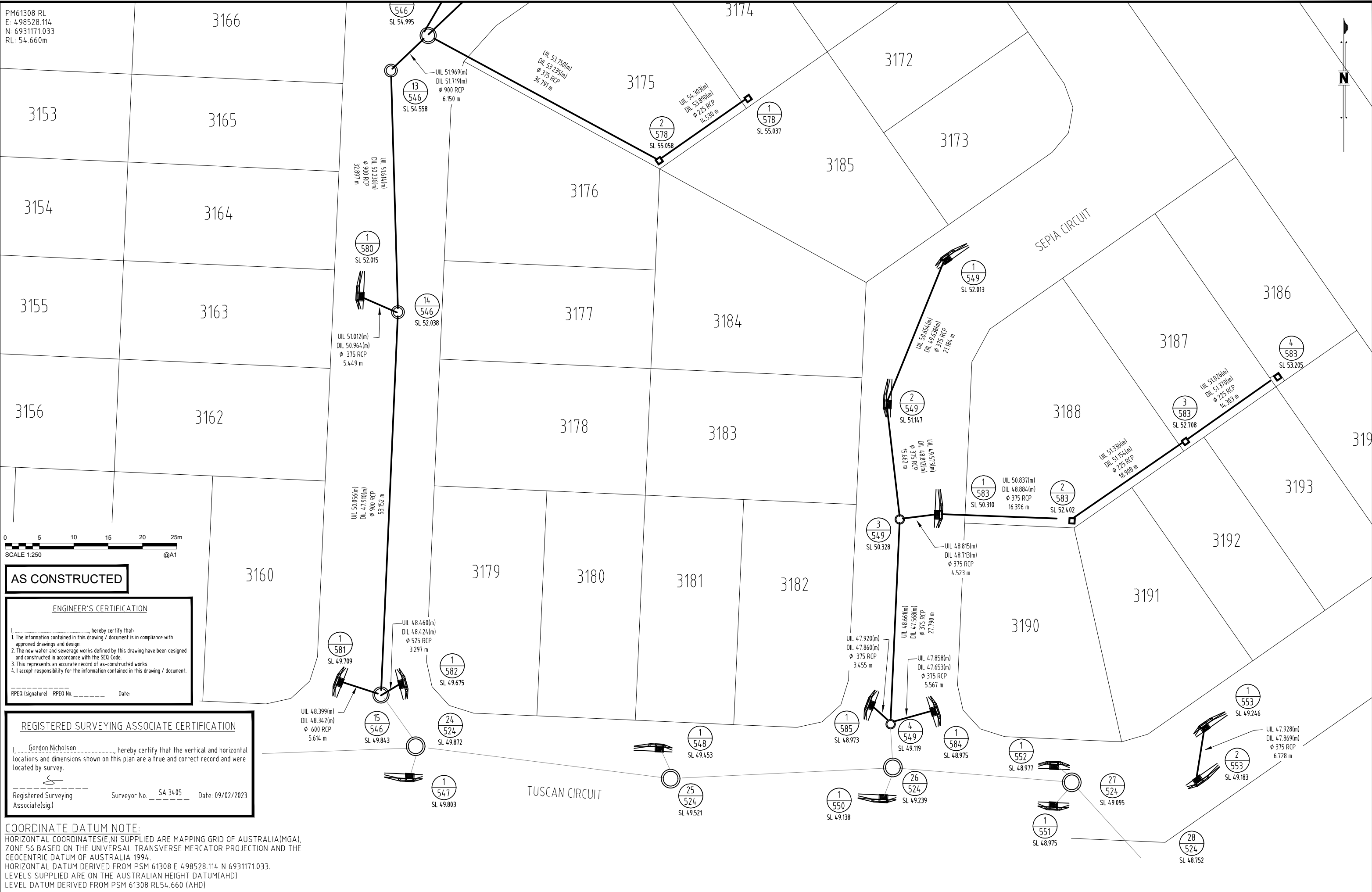


LOGAN CITY COUNCIL

MIRVAC MIR003-09
 AS CONSTRUCTED SURVEY - STORMWATER
 EVERLEIGH PRECINCT 9.3C
 GREENBANK QLD

SHEET 5 OF 6 SHEETS SCALE 1:250 A1
 REVISION DATE 09/02/2023 REVISION A
 DISCIPLINE CODE -
 DRAWING NO. **ASC-STORM-05-9.3C**

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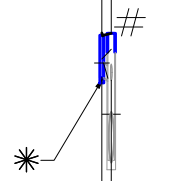
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								INITIALS	DATE



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 MIRVAC MIR003-09
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 EVERLEIGH PRECINCT 9.3C
 GREENBANK QLD

SHEET 6 OF 6 SHEETS	SCALE 1:250 A1
REVISION DATE 09/02/2023	REVISION A
DISCIPLINE CODE -	
DRAWING NO. ASC-STORM-06-9.3C	

STRUCTURE NAME	1/538	19/524
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1800mm DIA



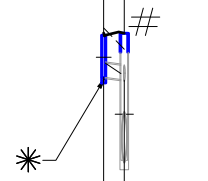
REMOVE TEMPORARY STEEL LID & INSTALL ROOF SLAB & RISER TO FINISHED ROAD SURFACE LEVEL
* CONSTRUCT GULLY AND CONNECT NEATLY INTO EXISTING STORMWATER LINE.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	3.00%
PIPE SLOPE (1 in X)	33.3
FULL PIPE VELOCITY (m/s)	0.10
PART FULL VELOCITY (m/s)	1.31
PIPE FLOW (cumecs)	0.011
PIPE CAPACITY AT GRADE (cumecs)	0.304
DATUM RL	37.0

WSE IN STRUCTURE	54.760
HGL IN PIPE	54.755
DEPTH OF INVERT BELOW FSL	1.115
INVERT LEVEL	54.380
FINISHED (& EXISTING) SURFACE LEVEL	55.495 (54.865)
CHAINAGE	0.000

LINE 538

STRUCTURE NAME	1/539	19/524
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1800mm DIA



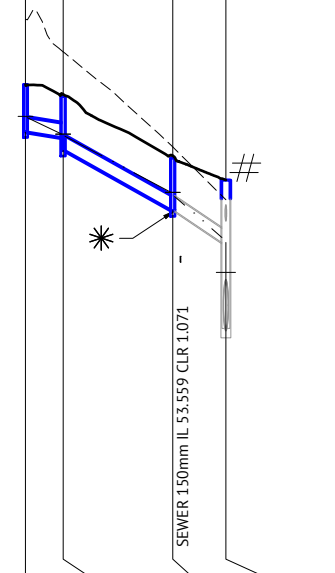
REMOVE TEMPORARY STEEL LID & INSTALL ROOF SLAB & RISER TO FINISHED ROAD SURFACE LEVEL
* CONSTRUCT GULLY AND CONNECT NEATLY INTO EXISTING STORMWATER LINE.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	99.9
FULL PIPE VELOCITY (m/s)	0.56
PART FULL VELOCITY (m/s)	1.45
PIPE FLOW (cumecs)	0.062
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	37.0

WSE IN STRUCTURE	54.911
HGL IN PIPE	54.755
DEPTH OF INVERT BELOW FSL	1.115
INVERT LEVEL	54.380
FINISHED (& EXISTING) SURFACE LEVEL	55.495 (55.687)
CHAINAGE	0.000

LINE 539

STRUCTURE NAME	1/540	2/540	3/540	20/524
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 2100mm DIA



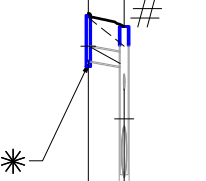
REMOVE TEMPORARY STEEL LID & INSTALL ROOF SLAB & RISER TO FINISHED ROAD SURFACE LEVEL
* CONSTRUCT GULLY AND CONNECT NEATLY INTO EXISTING STORMWATER LINE.

PIPE SIZE (mm)	375	375	375
PIPE CLASS	2	2	2
PIPE GRADE (%)	1.719	5.504	6.00%
PIPE SLOPE (1 in X)	1.50%	5.42%	16.7
FULL PIPE VELOCITY (m/s)	0.26	0.71	1.10
PART FULL VELOCITY (m/s)	1.36	2.86	3.34
PIPE FLOW (cumecs)	0.029	0.079	0.121
PIPE CAPACITY AT GRADE (cumecs)	0.215	0.408	0.430
DATUM RL	39.0	39.0	39.0

WSE IN STRUCTURE	57.403
HGL IN PIPE	57.369
DEPTH OF INVERT BELOW FSL	1.247
INVERT LEVEL	56.994
FINISHED (& EXISTING) SURFACE LEVEL	59.981
CHAINAGE	0.000

LINE 540

STRUCTURE NAME	1/541	20/524
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 2100mm DIA



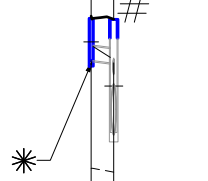
REMOVE TEMPORARY STEEL LID & INSTALL ROOF SLAB & RISER TO FINISHED ROAD SURFACE LEVEL
* CONSTRUCT GULLY AND CONNECT NEATLY INTO EXISTING STORMWATER LINE.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.50%
PIPE SLOPE (1 in X)	66.6
FULL PIPE VELOCITY (m/s)	0.19
PART FULL VELOCITY (m/s)	1.23
PIPE FLOW (cumecs)	0.021
PIPE CAPACITY AT GRADE (cumecs)	0.215
DATUM RL	37.0

WSE IN STRUCTURE	55.203
HGL IN PIPE	55.186
DEPTH OF INVERT BELOW FSL	1.211
INVERT LEVEL	54.811
FINISHED (& EXISTING) SURFACE LEVEL	56.021
CHAINAGE	0.000

LINE 541

STRUCTURE NAME	1/543	21/524
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1800mm DIA



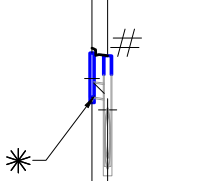
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* CONSTRUCT GULLY AND CONNECT NEATLY INTO EXISTING STORMWATER LINE.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.49
PART FULL VELOCITY (m/s)	1.40
PIPE FLOW (cumecs)	0.054
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	34.0

WSE IN STRUCTURE	52.320
HGL IN PIPE	52.200
DEPTH OF INVERT BELOW FSL	1.115
INVERT LEVEL	51.825
FINISHED (& EXISTING) SURFACE LEVEL	52.940
CHAINAGE	0.000

LINE 543

STRUCTURE NAME	1/544	22/524
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1800mm DIA



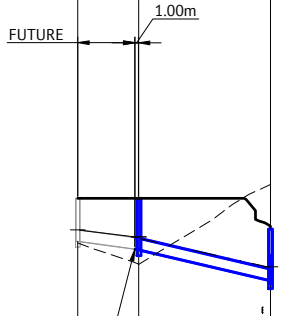
REMOVE TEMPORARY STEEL LID & INSTALL ROOF SLAB & RISER TO FINISHED ROAD SURFACE LEVEL
* CONSTRUCT GULLY AND CONNECT NEATLY INTO EXISTING STORMWATER LINE.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.49
PART FULL VELOCITY (m/s)	1.40
PIPE FLOW (cumecs)	0.054
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	34.0

WSE IN STRUCTURE	51.354
HGL IN PIPE	51.234
DEPTH OF INVERT BELOW FSL	1.170
INVERT LEVEL	50.859
FINISHED (& EXISTING) SURFACE LEVEL	52.029
CHAINAGE	0.000

LINE 544

STRUCTURE NAME	3/564	4/564	2/540
STRUCTURE DESCRIPTION	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA KERB INLET L.L.I.; 2.4m Lintel



REMOVE TEMPORARY STEEL LID & INSTALL ROOF SLAB & RISER TO FINISHED ROAD SURFACE LEVEL
* CONSTRUCT GULLY AND CONNECT NEATLY INTO EXISTING STORMWATER LINE.

PIPE SIZE (mm)	300	300
PIPE CLASS	uPVC	uPVC
PIPE GRADE (%)	1.30%	2.28%
PIPE SLOPE (1 in X)	76.9	43.8
FULL PIPE VELOCITY (m/s)	0.41	0.65
PART FULL VELOCITY (m/s)	1.48	2.07
PIPE FLOW (cumecs)	0.029	0.046
PIPE CAPACITY AT GRADE (cumecs)	0.130	0.173
DATUM RL	41.0	41.0

WSE IN STRUCTURE	57.916
HGL IN PIPE	57.911
DEPTH OF INVERT BELOW FSL	1.139
INVERT LEVEL	57.611
FINISHED (& EXISTING) SURFACE LEVEL	58.750
CHAINAGE	0.000

LINE 564

SANDBAG AND SEAL PIPE END FOR FUTURE CONNECTION.

FUTURE 1.00m

SEWER 150mm IL 55.721 CLR 0.744

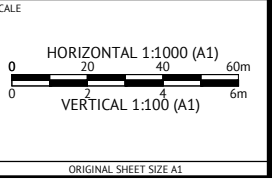
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RECEIVED
By Document Control at 11:50 am, Jun 17, 2021

FOR CONSTRUCTION	
20/08/2020	A APPROVAL ISSUE
DD/MM/YYYY	1 PRELIMINARY - NOT FOR CONSTRUCTION
DATE	REV DESCRIPTION

Premise
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

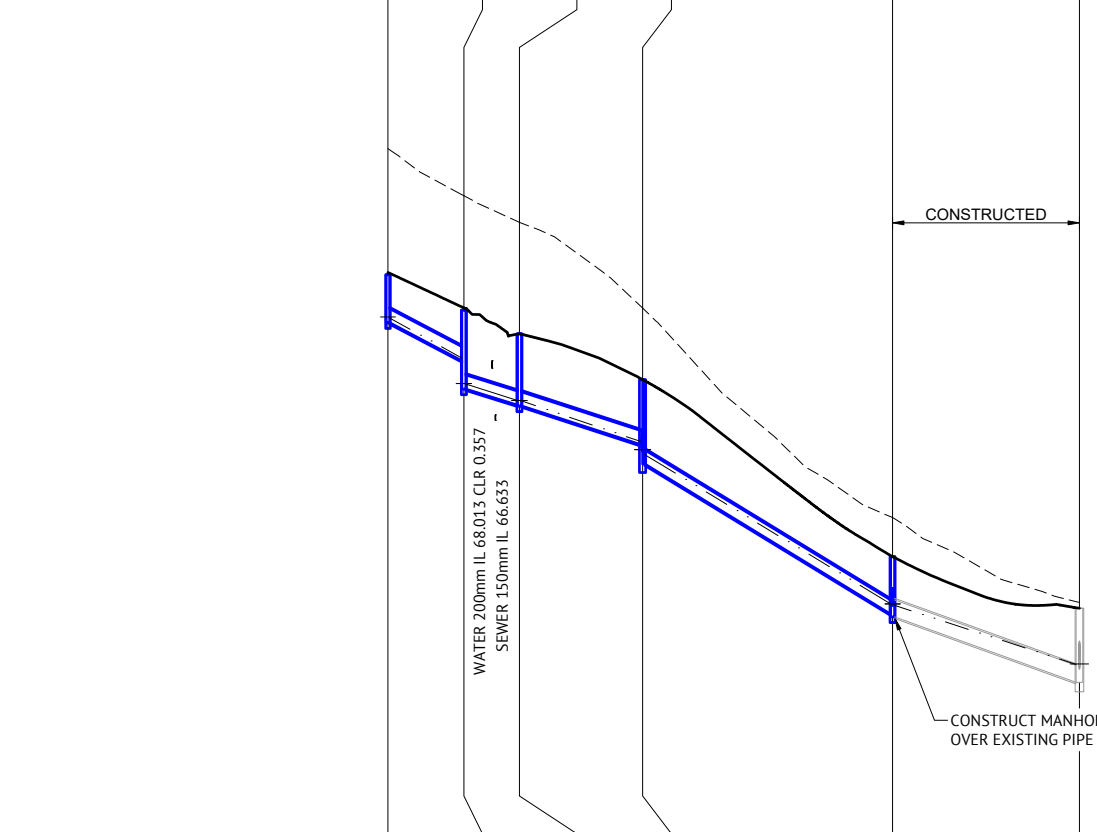
DESIGNED
B ADAMS
CHECKED
M MAIZNER
PROJECT MANAGER
R LLEWELYN
PROJECT DIRECTOR
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC GROUP
PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS

JOB CODE	
MIR012-03	
SHEET NUMBER	REV
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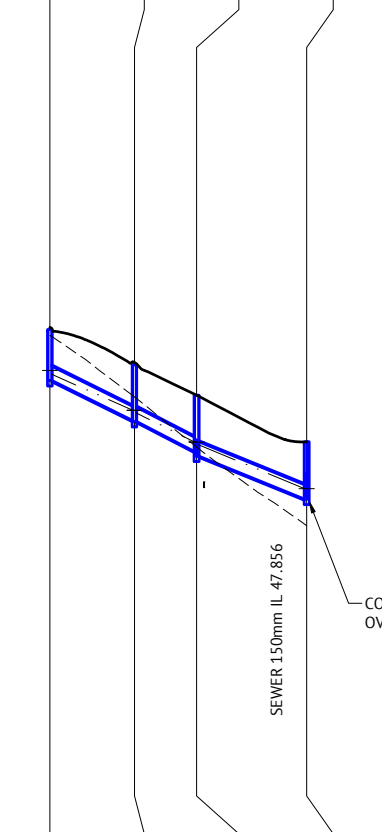
STRUCTURE NAME	1/546	1A/546	2/546	3/546	4/546	5/546
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel ON 1050mm DIA MANHOLE	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA



PIPE SIZE (mm)	375	375	375	375	450	
PIPE CLASS	2	2	2	2	2	
PIPE GRADE (%)	5.70%	2.87%	3.149%	6.045%	3.50%	
PIPE SLOPE (1 in X)	5.00%	2.90%	3.14%	6.00%	28.6	
FULL PIPE VELOCITY (m/s)	19.862	34.903	31.757	16.542	1.18	
PART FULL VELOCITY (m/s)	2.11	1.81	1.86	1.05	3.06	
PIPE FLOW (cumecs)	0.031	0.035	0.035	0.114	0.188	
PIPE CAPACITY AT GRADE (cumecs)	0.392	0.299	0.311	0.430	0.534	
DATUM RL	50.0					

WSE IN STRUCTURE	69.370	67.612	67.162	65.860	61.782	60.181
HGL IN PIPE	69.342	68.285	67.598	67.160	66.080	60.181
DEPTH OF INVERT BELOW FSL	1.273	1.341	2.090	1.891	1.911	1.960
INVERT LEVEL	69.201	68.214	67.446	67.001	66.013	59.765
FINISHED (& EXISTING) SURFACE LEVEL	70.477	69.512	67.054	67.006	66.013	61.693
CHAINAGE	0.000	20.083	20.083	14.716	34.799	67.383

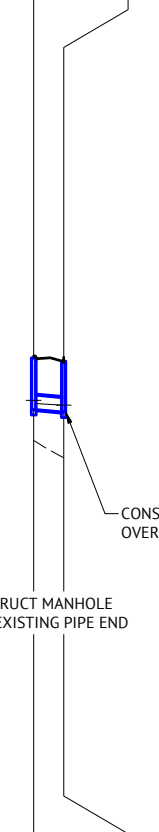
STRUCTURE NAME	1/549	2/549	3/549	4/549
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA



PIPE SIZE (mm)	375	375	375	
PIPE CLASS	2	2	2	
PIPE GRADE (%)	4.794%	4.857%	3.931%	
PIPE SLOPE (1 in X)	4.74%	4.86%	3.91%	
FULL PIPE VELOCITY (m/s)	20.860	20.589	25.436	
PART FULL VELOCITY (m/s)	2.39	2.86	3.09	
PIPE FLOW (cumecs)	0.050	0.090	0.162	
PIPE CAPACITY AT GRADE (cumecs)	0.382	0.387	0.347	
DATUM RL	33.0			

WSE IN STRUCTURE	50.956	49.901	49.061
HGL IN PIPE	50.855	49.901	49.061
DEPTH OF INVERT BELOW FSL	1.343	1.475	1.609
INVERT LEVEL	50.654	49.638	48.812
FINISHED (& EXISTING) SURFACE LEVEL	52.013	51.147	50.328
CHAINAGE	0.000	22.405	38.854

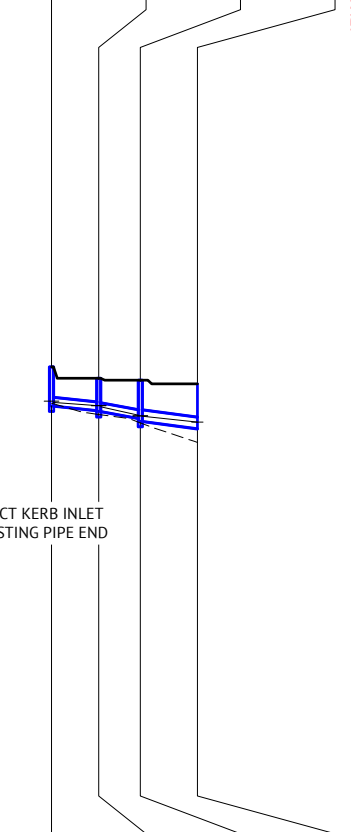
STRUCTURE NAME	1/553	2/553
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.88%
PIPE SLOPE (1 in X)	0.81%
FULL PIPE VELOCITY (m/s)	114.0
PART FULL VELOCITY (m/s)	1.24
PIPE FLOW (cumecs)	0.046
PIPE CAPACITY AT GRADE (cumecs)	0.158
DATUM RL	31.0

WSE IN STRUCTURE	48.164
HGL IN PIPE	48.079
DEPTH OF INVERT BELOW FSL	1.362
INVERT LEVEL	47.712
FINISHED (& EXISTING) SURFACE LEVEL	49.183
CHAINAGE	0.000

STRUCTURE NAME	1/564	2/564	3/564	3A/564
STRUCTURE DESCRIPTION	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE

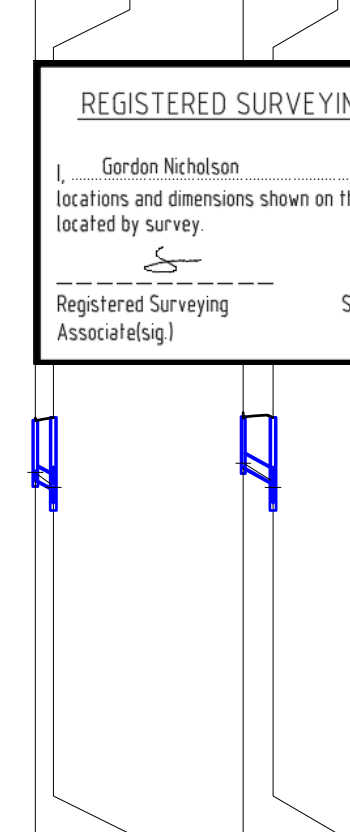


PIPE SIZE (mm)	225	225	300
PIPE CLASS	uPVC	uPVC	uPVC
PIPE GRADE (%)	0.935%	1.691%	1.255%
PIPE SLOPE (1 in X)	1.00%	1.70%	1.30%
FULL PIPE VELOCITY (m/s)	106.914	59.147	79.691
PART FULL VELOCITY (m/s)	1.09	1.54	1.52
PIPE FLOW (cumecs)	0.012	0.022	0.031
PIPE CAPACITY AT GRADE (cumecs)	0.053	0.069	0.130
DATUM RL	41.0	58.143	58.143

WSE IN STRUCTURE	58.143	58.024	57.754
HGL IN PIPE	58.109	58.024	57.773
DEPTH OF INVERT BELOW FSL	1.052	0.857	1.014
INVERT LEVEL	58.018	57.912	57.696
FINISHED (& EXISTING) SURFACE LEVEL	59.031	58.739	58.739
CHAINAGE	0.000	12.500	23.500

IPWEA FIELD INLET - 900x600 TYPE 2
L.D. GRATE

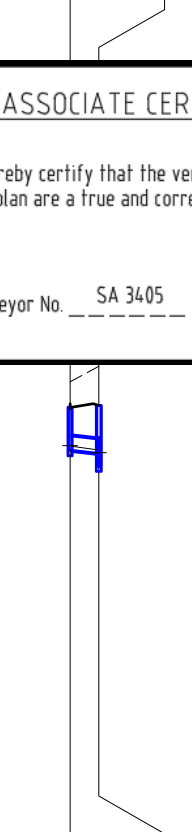
STRUCTURE NAME	1/565	3/546
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel ON 1050mm DIA MANHOLE	IPWEA MANHOLE 1200mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	4.97%
PIPE SLOPE (1 in X)	4.85%
FULL PIPE VELOCITY (m/s)	20.13
PART FULL VELOCITY (m/s)	2.35
PIPE FLOW (cumecs)	0.058
PIPE CAPACITY AT GRADE (cumecs)	0.351
DATUM RL	51.0

WSE IN STRUCTURE	66.260
HGL IN PIPE	66.210
DEPTH OF INVERT BELOW FSL	1.605
INVERT LEVEL	66.028
FINISHED (& EXISTING) SURFACE LEVEL	67.548
CHAINAGE	0.000

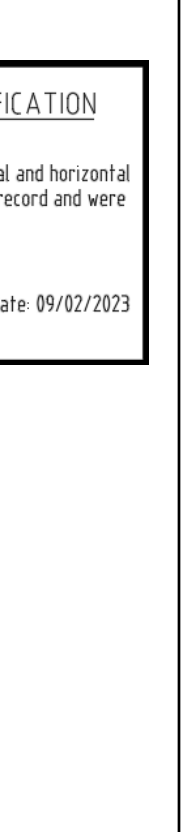
STRUCTURE NAME	1/566	3/546
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1200mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	5.004%
PIPE SLOPE (1 in X)	4.85%
FULL PIPE VELOCITY (m/s)	19.983
PART FULL VELOCITY (m/s)	1.88
PIPE FLOW (cumecs)	0.021
PIPE CAPACITY AT GRADE (cumecs)	0.386
DATUM RL	51.0

WSE IN STRUCTURE	66.500
HGL IN PIPE	66.481
DEPTH OF INVERT BELOW FSL	1.355
INVERT LEVEL	66.351
FINISHED (& EXISTING) SURFACE LEVEL	67.663
CHAINAGE	0.000

STRUCTURE NAME	1/567	4/546
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.014%
PIPE SLOPE (1 in X)	1.03%
FULL PIPE VELOCITY (m/s)	98.651
PART FULL VELOCITY (m/s)	1.09
PIPE FLOW (cumecs)	0.021
PIPE CAPACITY AT GRADE (cumecs)	0.178
DATUM RL	46.0

WSE IN STRUCTURE	61.969
HGL IN PIPE	61.950
DEPTH OF INVERT BELOW FSL	1.137
INVERT LEVEL	61.802
FINISHED (& EXISTING) SURFACE LEVEL	62.929
CHAINAGE	0.000

REGISTERED SURVEYING ASSOCIATE CERTIFICATION

I, Gordon Nicholson, hereby certify that the vertical and horizontal locations and dimensions shown on this plan are a true and correct record and were located by survey.

Registered Surveying Associate(sig.) Surveyor No. SA 3405 Date: 09/02/2023

FOR CONSTRUCTION			
13/01/2022	B	ISSUED FOR CONSTRUCTION	KK PB
15/10/2021	A	ORIGINAL ISSUE	VKH PB
DATE	REV	DESCRIPTION	REVISIONS

Premise

BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED
K KIWANG

CHECKED
R BARGER

PROJECT MANAGER
S STEINHOFER

PROJECT DIRECTOR
PATRICK BRADY

RPEQ 7112

SCALE

HORIZONTAL 1:1000 (A1)

VERTICAL 1:100 (A1)

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 9.3A, B, C, D, E SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 1 OF 5

JOB CODE
MIR009-03

SHEET NUMBER
C410

REV
B

STRUCTURE NAME	1/568	4/546
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.: 2.4m Lintel	IPWEA MANHOLE 1050mm DIA

TE1/546	6/546	7/546	8/546	9/546	10/546	11/546	12/546	13/546	14/546	15/546					
TEMPORARY HEADWALL	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1350mm DIA	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 1350mm DIA	IPWEA MANHOLE 1350mm DIA	IPWEA MANHOLE 1800mm DIA					
	675	675	825	900	900	900	900	900	900	900	375	375	375	375	450
PIPE SIZE (mm)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PIPE CLASS	1.33%	3.47%	0.738%	0.709%	1.38%	0.96%	4.43%	4.064%	4.187%	4.036%	1.41%	1.01%	1.52%	1.04%	1.173%
PIPE GRADE (%)	5.00%	3.50%	0.50%	0.50%	1.76%	1.00%	1.77%	1.20%	1.20%	1.00%	0.33%	0.85%	0.38%	0.32%	0.36%
PIPE SLOPE (1 in X)	20.6	20.6	20.0	20.0	72.7	10.0	22.9	23.8	23.8	25.0	71.1	99.0	65.7	96.6	100.0
FULL PIPE VELOCITY (m/s)	20.146	28.797	135.54	141.039	72.691	104.02	22.593	24.609	23.883	24.778	0.33	0.85	0.38	0.32	0.36
PART FULL VELOCITY (m/s)	4.70	4.12	2.05	2.08	3.01	2.73	4.66	4.68	4.68	4.67	1.42	1.62	1.51	1.25	1.40
PIPE FLOW (cumecs)	0.614	0.613	0.697	0.735	0.731	0.768	0.767	0.819	0.819	0.861	0.036	0.094	0.041	0.036	0.058
PIPE CAPACITY AT GRADE (cumecs)	1.880	1.573	1.015	1.281	2.110	1.811	3.787	3.712	3.712	3.622	0.208	0.176	0.216	0.176	0.285
DATUM RL	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	44.0	45.0	44.0	40.0	40.0
WSE IN STRUCTURE	62.135	62.135	62.135	62.135	62.135	62.135	62.135	62.135	62.135	62.135	60.817	61.014	60.439	57.055	55.509
HGL IN PIPE	62.008	62.008	62.008	62.008	62.008	62.008	62.008	62.008	62.008	62.008	60.763	60.717	60.389	57.003	56.847
DEPTH OF INVERT BELOW FSL	1.216	1.216	1.216	1.216	1.216	1.216	1.216	1.216	1.216	1.216	1.157	1.123	1.462	1.460	1.511
INVERT LEVEL	61.846	61.846	61.846	61.846	61.846	61.846	61.846	61.846	61.846	61.846	60.610	60.496	60.249	56.876	56.807
FINISHED (& EXISTING) SURFACE LEVEL	62.968	64.052	64.052	64.052	64.052	64.052	64.052	64.052	64.052	64.052	61.719	61.374	60.349	58.292	58.292
CHAINAGE	0.000	5.371	5.371	5.371	5.371	5.371	5.371	5.371	5.371	5.371	0.000	20.365	20.365	0.000	13.479

REGISTERED SURVEYING ASSOCIATE CERTIFICATION

I, Gordon Nicholson, hereby certify that the vertical and horizontal locations and dimensions shown on this plan are a true and correct record and were located by survey.

Registered Surveying Associate(sig) _____ Surveyor No. SA 3405 Date: 09/02/2023

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.33%
PIPE SLOPE (1 in X)	20.6
FULL PIPE VELOCITY (m/s)	75.208
PART FULL VELOCITY (m/s)	4.70
PIPE FLOW (cumecs)	0.614
PIPE CAPACITY AT GRADE (cumecs)	1.880
DATUM RL	46.0
WSE IN STRUCTURE	62.135
HGL IN PIPE	62.008
DEPTH OF INVERT BELOW FSL	1.216
INVERT LEVEL	61.846
FINISHED (& EXISTING) SURFACE LEVEL	62.968
CHAINAGE	0.000

LINE 568

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
15/01/2022	B	AMENDED MANHOLE DESCRIPTIONS	KK PB
15/10/2021	A	ORIGINAL ISSUE	VKH PB

Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED: K KIWANG
CHECKED: R BARGER
PROJECT MANAGER: S STEINHOFER
PROJECT DIRECTOR: PATRICK BRADY

SCALE: HORIZONTAL 1:1000 (A1)
VERTICAL 1:100 (A1)

CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 9.3A, B, C, D, E SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: STORMWATER DRAINAGE LONG SECTIONS - SHEET 2 OF 5

JOB CODE: MIR009-03
SHEET NUMBER: C411
REV: B

TE1/546

TEMPORARY HEADWALL

IPWEA KERB INLET OVER EXISTING PIPE END.

CONSTRUCT KERB INLET OVER EXISTING PIPE END.

CONSTRUCT KERB INLET OVER EXISTING PIPE END.

CONSTRUCT KERB INLET OVER EXISTING PIPE END.

CONSTRUCT MANHOLE OVER EXISTING PIPE END

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CONSTRUCT KERB INLET OVER EXISTING PIPE END.

CONSTRUCT KERB INLET OVER EXISTING PIPE END.

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CONSTRUCT MANHOLE OVER EXISTING PIPE END

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CONSTRUCT KERB INLET OVER EXISTING PIPE END.

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CONSTRUCT MANHOLE OVER EXISTING PIPE END

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CONSTRUCT KERB INLET OVER EXISTING PIPE END.

CONSTRUCT KERB INLET OVER EXISTING PIPE END.

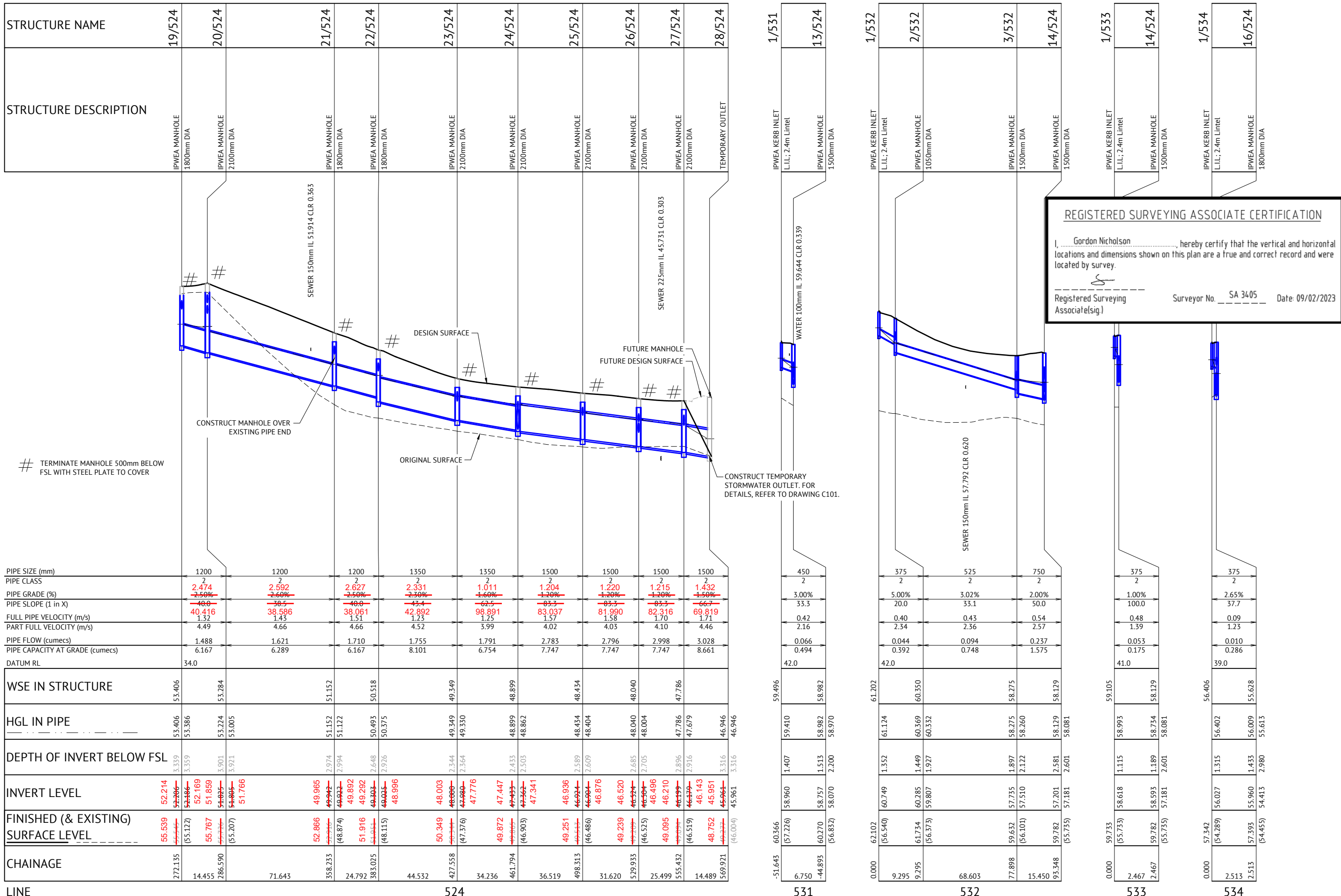
CONSTRUCT KERB INLET OVER EXISTING PIPE END.

CONSTRUCT MANHOLE OVER EXISTING PIPE END

CONSTRUCTED

CONSTRUCTED

CONSTRUCTED



REGISTERED SURVEYING ASSOCIATE CERTIFICATION
 I, Gordon Nicholson, hereby certify that the vertical and horizontal locations and dimensions shown on this plan are a true and correct record and were located by survey.
 Registered Surveying Associate(sig) Surveyor No. SA 3405 Date: 09/02/2023

PIPE SIZE (mm)	1200	1200	1200	1350	1350	1500	1500	1500	1500	450	375	525	750	375	375
PIPE CLASS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PIPE GRADE (%)	2.474 2.50%	2.592 2.60%	2.627 2.50%	2.331 2.50%	1.011 1.60%	1.204 1.20%	1.220 1.20%	1.215 1.20%	1.432 1.50%	3.00%	5.00%	3.02%	2.00%	1.00%	2.65%
PIPE SLOPE (1 in X)	40.8 40.416	38.5 38.586	40.8 38.061	43.4 42.892	62.5 98.891	83.3 83.037	83.3 81.990	83.3 82.316	66.7 69.819	33.3	20.0	33.1	50.0	100.0	37.7
FULL PIPE VELOCITY (m/s)	1.32	1.43	1.51	1.23	1.25	1.57	1.58	1.70	1.71	0.42	0.40	0.43	0.54	0.48	0.09
PART FULL VELOCITY (m/s)	4.49	4.66	4.66	4.52	3.99	4.02	4.03	4.10	4.46	2.16	2.34	2.36	2.57	1.39	1.23
PIPE FLOW (cumecs)	1.488	1.621	1.710	1.755	1.791	2.783	2.796	2.998	3.028	0.066	0.044	0.094	0.237	0.053	0.010
PIPE CAPACITY AT GRADE (cumecs)	6.167	6.289	6.167	8.101	6.754	7.747	7.747	7.747	8.661	0.494	0.392	0.748	1.575	0.175	0.286
DATUM RL	34.0									42.0	42.0			41.0	39.0
WSE IN STRUCTURE	53.406	53.284	51.152	49.349	48.899	48.434	48.040	47.786	46.946	59.496	61.202	58.275	58.129	59.105	56.406
HGL IN PIPE	53.406	53.284	51.152	49.349	48.899	48.434	48.040	47.786	46.946	59.410	61.124	58.275	58.129	58.993	56.402
DEPTH OF INVERT BELOW FSL	3.339	3.359	2.974	2.344	2.364	2.433	2.503	2.589	2.609	1.407	1.352	1.897	2.122	1.115	1.315
INVERT LEVEL	52.214 52.066	52.169 51.859	49.965 49.922	48.003 46.009	47.776 47.447	46.936 46.904	46.520 46.524	46.496 46.210	45.951 45.964	58.960	60.749	57.735	57.201	58.618	56.027
FINISHED (& EXISTING) SURFACE LEVEL	55.539 55.122	55.767 55.207	52.866 48.874	50.349 47.376	49.872 47.447	49.251 46.903	49.239 46.525	48.095 47.077	48.752 46.004	60.366 57.226	62.102 56.540	59.632 56.101	59.782 55.735	59.733 55.733	57.342 54.289
CHAINAGE	272.135	14.455	286.590	71.643	358.233	24.792	383.025	44.532	427.558	34.236	461.794	36.519	498.313	31.620	529.933
LINE	524									531					

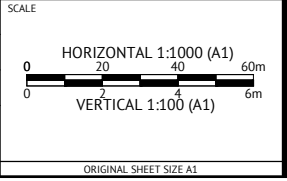
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE		
	1	PRELIMINARY - NOT FOR CONSTRUCTION	BA	APP
			REC	APP



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 FORTITUDE VALLEY, QLD 4006
 PH: (07) 3253 2222
 WEB: www.premise.com.au

DESIGNED
B ADAMS
 CHECKED
M MAJZNER
 PROJECT MANAGER
R LLEWELYN
 PROJECT DIRECTOR
PAT BRADY RPEQ 7112



CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 3

JOB CODE
MIR012-01
 SHEET NUMBER
C412
 REV
A

STRUCTURE NAME	1/575
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.: 2.4m Lintel
	8/546
	IPWEA MANHOLE 1500mm DIA

	1/576
	IPWEA KERB INLET L.L.I.: 2.4m Lintel
	8/546
	TMR MANHOLE 1500mm DIA

	1/577
	IPWEA KERB INLET L.L.I.: 2.4m Lintel
	10/546
	IPWEA MANHOLE 1500mm DIA

	1/578
	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE
	2/578
	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE
	12/546
	IPWEA MANHOLE 1800mm DIA

	1/579
	IPWEA KERB INLET L.L.I.: 2.4m Lintel
	12/546
	IPWEA MANHOLE 1800mm DIA

	1/580
	IPWEA KERB INLET L.L.I.: 2.4m Lintel
	14/546
	IPWEA MANHOLE 1350mm DIA

	1/581
	IPWEA KERB INLET (SAG) L.L.I.: 2.4m Lintel
	15/546
	IPWEA MANHOLE 1800mm DIA

	1/582
	IPWEA KERB INLET (SAG) L.L.I.: 2.4m Lintel
	15/546
	IPWEA MANHOLE 1800mm DIA

	4/583
	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE
	3/583
	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE
	2/583
	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE
	1/583
	IPWEA KERB INLET L.L.I.: 2.4m Lintel
	3/549
	IPWEA MANHOLE 1050mm DIA

	1/584
	IPWEA KERB INLET (SAG) L.L.I.: 2.4m Lintel
	4/549
	IPWEA MANHOLE 1050mm DIA

REGISTERED SURVEYING ASSOCIATE CERTIFICATION

I, Gordon Nicholson, hereby certify that the vertical and horizontal locations and dimensions shown on this plan are a true and correct record and were located by survey.

Registered Surveying Associate(sig) _____ Surveyor No. SA 3405 Date: 09/02/2023

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.261%
PIPE SLOPE (1 in X)	1.00%
FULL PIPE VELOCITY (m/s)	0.31
PART FULL VELOCITY (m/s)	1.23
PIPE FLOW (cumecs)	0.034
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	40.0
WSE IN STRUCTURE	57.141
HGL IN PIPE	57.094
DEPTH OF INVERT BELOW FSL	1.356
INVERT LEVEL	56.961
FINISHED (& EXISTING) SURFACE LEVEL	58.238
CHAINAGE	0.000

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.51%
PIPE SLOPE (1 in X)	3.10%
FULL PIPE VELOCITY (m/s)	0.09
PART FULL VELOCITY (m/s)	1.27
PIPE FLOW (cumecs)	0.010
PIPE CAPACITY AT GRADE (cumecs)	0.309
DATUM RL	40.0
WSE IN STRUCTURE	57.034
HGL IN PIPE	57.030
DEPTH OF INVERT BELOW FSL	1.356
INVERT LEVEL	56.934
FINISHED (& EXISTING) SURFACE LEVEL	58.261
CHAINAGE	0.000

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.56%
PIPE SLOPE (1 in X)	1.00%
FULL PIPE VELOCITY (m/s)	0.45
PART FULL VELOCITY (m/s)	1.37
PIPE FLOW (cumecs)	0.050
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	38.0
WSE IN STRUCTURE	54.926
HGL IN PIPE	54.875
DEPTH OF INVERT BELOW FSL	1.428
INVERT LEVEL	54.663
FINISHED (& EXISTING) SURFACE LEVEL	56.094
CHAINAGE	3.917

PIPE SIZE (mm)	225
PIPE CLASS	2
PIPE GRADE (%)	2.841%
PIPE SLOPE (1 in X)	2.80%
FULL PIPE VELOCITY (m/s)	0.27
PART FULL VELOCITY (m/s)	1.51
PIPE FLOW (cumecs)	0.011
PIPE CAPACITY AT GRADE (cumecs)	0.089
DATUM RL	37.0
WSE IN STRUCTURE	54.428
HGL IN PIPE	54.402
DEPTH OF INVERT BELOW FSL	0.733
INVERT LEVEL	54.303
FINISHED (& EXISTING) SURFACE LEVEL	55.058
CHAINAGE	15.438

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.45%
PIPE SLOPE (1 in X)	1.50%
FULL PIPE VELOCITY (m/s)	0.31
PART FULL VELOCITY (m/s)	1.42
PIPE FLOW (cumecs)	0.034
PIPE CAPACITY AT GRADE (cumecs)	0.215
DATUM RL	37.0
WSE IN STRUCTURE	54.320
HGL IN PIPE	54.274
DEPTH OF INVERT BELOW FSL	1.349
INVERT LEVEL	54.134
FINISHED (& EXISTING) SURFACE LEVEL	55.413
CHAINAGE	16.722

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	0.88%
PIPE SLOPE (1 in X)	1.00%
FULL PIPE VELOCITY (m/s)	0.45
PART FULL VELOCITY (m/s)	1.36
PIPE FLOW (cumecs)	0.049
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	35.0
WSE IN STRUCTURE	51.259
HGL IN PIPE	51.161
DEPTH OF INVERT BELOW FSL	1.115
INVERT LEVEL	51.012
FINISHED (& EXISTING) SURFACE LEVEL	52.015
CHAINAGE	5.897

PIPE SIZE (mm)	600
PIPE CLASS	2
PIPE GRADE (%)	1.02%
PIPE SLOPE (1 in X)	1.04%
FULL PIPE VELOCITY (m/s)	0.22
PART FULL VELOCITY (m/s)	1.42
PIPE FLOW (cumecs)	0.063
PIPE CAPACITY AT GRADE (cumecs)	0.626
DATUM RL	32.0
WSE IN STRUCTURE	48.564
HGL IN PIPE	48.540
DEPTH OF INVERT BELOW FSL	1.362
INVERT LEVEL	48.389
FINISHED (& EXISTING) SURFACE LEVEL	49.709
CHAINAGE	6.243

PIPE SIZE (mm)	525
PIPE CLASS	2
PIPE GRADE (%)	1.09%
PIPE SLOPE (1 in X)	1.05%
FULL PIPE VELOCITY (m/s)	0.29
PART FULL VELOCITY (m/s)	1.44
PIPE FLOW (cumecs)	0.063
PIPE CAPACITY AT GRADE (cumecs)	0.440
DATUM RL	32.0
WSE IN STRUCTURE	48.645
HGL IN PIPE	48.603
DEPTH OF INVERT BELOW FSL	1.305
INVERT LEVEL	48.460
FINISHED (& EXISTING) SURFACE LEVEL	49.675
CHAINAGE	3.478

PIPE SIZE (mm)	225
PIPE CLASS	2
PIPE GRADE (%)	3.187%
PIPE SLOPE (1 in X)	3.12%
FULL PIPE VELOCITY (m/s)	0.25
PART FULL VELOCITY (m/s)	1.53
PIPE FLOW (cumecs)	0.010
PIPE CAPACITY AT GRADE (cumecs)	0.094
DATUM RL	34.0
WSE IN STRUCTURE	51.955
HGL IN PIPE	51.933
DEPTH OF INVERT BELOW FSL	1.398
INVERT LEVEL	51.826
FINISHED (& EXISTING) SURFACE LEVEL	53.205
CHAINAGE	16.000

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.254%
PIPE SLOPE (1 in X)	1.72%
FULL PIPE VELOCITY (m/s)	0.45
PART FULL VELOCITY (m/s)	1.84
PIPE FLOW (cumecs)	0.072
PIPE CAPACITY AT GRADE (cumecs)	0.329
DATUM RL	31.0
WSE IN STRUCTURE	47.922
HGL IN PIPE	47.920
DEPTH OF INVERT BELOW FSL	1.153
INVERT LEVEL	47.858
FINISHED (& EXISTING) SURFACE LEVEL	48.975
CHAINAGE	6.539

WATER 100mm IL 54.457 CLR 0.745
SEWER 150mm IL 52.552

WATER 100mm IL 49.774 CLR 0.301
SEWER 150mm IL 47.912

CONSTRUCT MANHOLE OVER EXISTING PIPE END

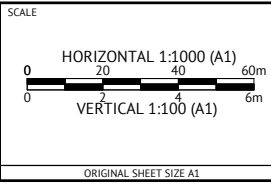
FOR CONSTRUCTION

13/01/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
15/10/2021	A	ORIGINAL ISSUE	YKH	PB
DATE	REV	DESCRIPTION	REC	APP



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PROJECT
EVERLEIGH PRECINCT 9.3A, B, C, D, E SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 3 OF 5

JOB CODE MIR009-03	
SHEET NUMBER C412	REV B

STRUCTURE NAME	1/585	4/549
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.I.L.: 2.4m Lintel	IPWEA MANHOLE 1050mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.736% 1.04%
PIPE SLOPE (1 in X)	95.9 57.602
FULL PIPE VELOCITY (m/s)	0.26
PART FULL VELOCITY (m/s)	1.38
PIPE FLOW (cumecs)	0.049
PIPE CAPACITY AT GRADE (cumecs)	0.179
DATUM RL	31.0
WSE IN STRUCTURE	48.146
HGL IN PIPE	48.048
DEPTH OF INVERT BELOW FSL	1.136
INVERT LEVEL	47.908 47.920
FINISHED (& EXISTING) SURFACE LEVEL	48.973 48.034
CHAINAGE	0.000

STRUCTURE NAME	1/592	2/592	1/565
STRUCTURE DESCRIPTION	IPWEA FIELD INLET - 600x600 TYPE 2 ON 1050mm DIA MANHOLE	IPWEA FIELD INLET - 600x600 TYPE 2 ON 1050mm DIA MANHOLE	IPWEA KERB INLET L.I.L.: 2.4m Lintel ON 1050mm DIA MANHOLE

PIPE SIZE (mm)	225	225
PIPE CLASS	2	2
PIPE GRADE (%)	5.97% 5.72%	1.30% 1.00%
PIPE SLOPE (1 in X)	12.5 16.746	99.8 72.144
FULL PIPE VELOCITY (m/s)	0.26	0.55
PART FULL VELOCITY (m/s)	1.70	1.12
PIPE FLOW (cumecs)	0.010	0.022
PIPE CAPACITY AT GRADE (cumecs)	0.107	0.045
DATUM RL	52.0	66.260
WSE IN STRUCTURE	68.515	66.260
HGL IN PIPE	68.491	66.260
DEPTH OF INVERT BELOW FSL	1.692	3.386
INVERT LEVEL	68.408 68.392	67.531 66.118
FINISHED (& EXISTING) SURFACE LEVEL	70.089 70.100	67.548 66.640
CHAINAGE	0.000	5.866

STRUCTURE NAME	10/501	11/501	12/501	13/501
STRUCTURE DESCRIPTION	PIPE END SAND BAG AND SEAL	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1200mm DIA	PIPE END SAND BAG AND SEAL

PIPE SIZE (mm)	450	525	525
PIPE CLASS	2	2	2
PIPE GRADE (%)	1.04% 1.04%	1.00% 1.00%	1.04% 1.04%
PIPE SLOPE (1 in X)	35.2 XX.XX	100.0 XX.XX	32.7 XX.XX
FULL PIPE VELOCITY (m/s)	3.11	2.61	2.60
PART FULL VELOCITY (m/s)	3.44	2.61	3.83
PIPE FLOW (cumecs)	0.495	0.564	0.563
PIPE CAPACITY AT GRADE (cumecs)	0.481	0.450	0.758
DATUM RL	33.0	50.026	50.026
WSE IN STRUCTURE	50.264	50.026	49.769
HGL IN PIPE	50.264	49.886	49.287
DEPTH OF INVERT BELOW FSL	1.393	1.515	1.811
INVERT LEVEL	49.202 XX.XX	48.903 XX.XX	48.002 XX.XX
FINISHED (& EXISTING) SURFACE LEVEL	49.843 XX.XX	49.496 XX.XX	49.281 XX.XX
CHAINAGE	0.000	7.900	15.829

STRUCTURE NAME	4/501	5/501	6/501	7/501
STRUCTURE DESCRIPTION	PIPE END SAND BAG AND SEAL	IPWEA KERB INLET (SAG) L.I.L.: 2.4m Lintel ON 1050mm DIA MANHOLE	IPWEA MANHOLE 1200mm DIA	PIPE END SAND BAG AND SEAL

PIPE SIZE (mm)	375	375	375
PIPE CLASS	2	2	2
PIPE GRADE (%)	6.70% 1.00%	1.00% 1.00%	1.00% 1.00%
PIPE SLOPE (1 in X)	14.0 XX.XX	100.0 XX.XX	32.7 XX.XX
FULL PIPE VELOCITY (m/s)	1.16	1.75	2.50
PART FULL VELOCITY (m/s)	3.53	1.75	3.12
PIPE FLOW (cumecs)	0.128	0.193	0.276
PIPE CAPACITY AT GRADE (cumecs)	0.454	0.175	0.304
DATUM RL	39.0	56.329	55.966
WSE IN STRUCTURE	56.709	56.329	55.966
HGL IN PIPE	56.709	56.321	55.958
DEPTH OF INVERT BELOW FSL	1.422	1.745	2.041
INVERT LEVEL	55.287 XX.XX	54.576 XX.XX	53.925 XX.XX
FINISHED (& EXISTING) SURFACE LEVEL	57.206 XX.XX	56.724 XX.XX	56.242 XX.XX
CHAINAGE	0.000	15.385	20.250

STRUCTURE NAME	1/511	6/501
STRUCTURE DESCRIPTION	FUTURE IPWEA KERB INLET L.I.L.: 2.4m Lintel	IPWEA MANHOLE 1200mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00% 1.00%
PIPE SLOPE (1 in X)	100.0 XX.XX
FULL PIPE VELOCITY (m/s)	0.47
PART FULL VELOCITY (m/s)	1.38
PIPE FLOW (cumecs)	0.052
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	39.0
WSE IN STRUCTURE	56.105
HGL IN PIPE	56.043
DEPTH OF INVERT BELOW FSL	1.450
INVERT LEVEL	54.693 XX.XX
FINISHED (& EXISTING) SURFACE LEVEL	55.109 XX.XX
CHAINAGE	0.000

STRUCTURE NAME	1/512	6/501
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.I.L.: 2.4m Lintel	IPWEA MANHOLE 1200mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00% 1.00%
PIPE SLOPE (1 in X)	100.0 XX.XX
FULL PIPE VELOCITY (m/s)	0.30
PART FULL VELOCITY (m/s)	1.22
PIPE FLOW (cumecs)	0.033
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	39.0
WSE IN STRUCTURE	56.009
HGL IN PIPE	55.965
DEPTH OF INVERT BELOW FSL	1.348
INVERT LEVEL	54.617 XX.XX
FINISHED (& EXISTING) SURFACE LEVEL	55.133 XX.XX
CHAINAGE	0.000

STRUCTURE NAME	1/519	11/501
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.I.L.: 2.4m Lintel	IPWEA MANHOLE 1200mm DIA


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00% 1.00%
PIPE SLOPE (1 in X)	100.0 XX.XX
FULL PIPE VELOCITY (m/s)	0.35
PART FULL VELOCITY (m/s)	1.27
PIPE FLOW (cumecs)	0.038
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	33.0
WSE IN STRUCTURE	50.060
HGL IN PIPE	50.028
DEPTH OF INVERT BELOW FSL	1.316
INVERT LEVEL	48.712 XX.XX
FINISHED (& EXISTING) SURFACE LEVEL	49.030 XX.XX
CHAINAGE	0.000

STRUCTURE NAME	1/520	11/501
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.I.L.: 2.4m Lintel	IPWEA MANHOLE 1200mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00% 1.00%
PIPE SLOPE (1 in X)	100.0 XX.XX
FULL PIPE VELOCITY (m/s)	0.31
PART FULL VELOCITY (m/s)	1.23
PIPE FLOW (cumecs)	0.034
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	33.0
WSE IN STRUCTURE	50.052
HGL IN PIPE	50.027
DEPTH OF INVERT BELOW FSL	1.316
INVERT LEVEL	48.716 XX.XX
FINISHED (& EXISTING) SURFACE LEVEL	49.034 XX.XX
CHAINAGE	0.000

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 Registered Surveying Associate(sig.) Surveyor No. SA 3405 Date: 09/02/2023


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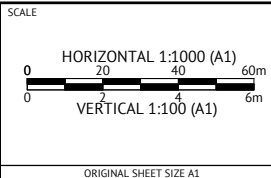
FOR CONSTRUCTION

13/01/2022	B	AMENDED MANHOLE DESCRIPTION	KK	PB
15/10/2021	A	ORIGINAL ISSUE	VKH	PB
DATE	REV	DESCRIPTION	REC	APP



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PROJECT
EVERLEIGH PRECINCT 9.3A, B, C, D, E SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 4 OF 5

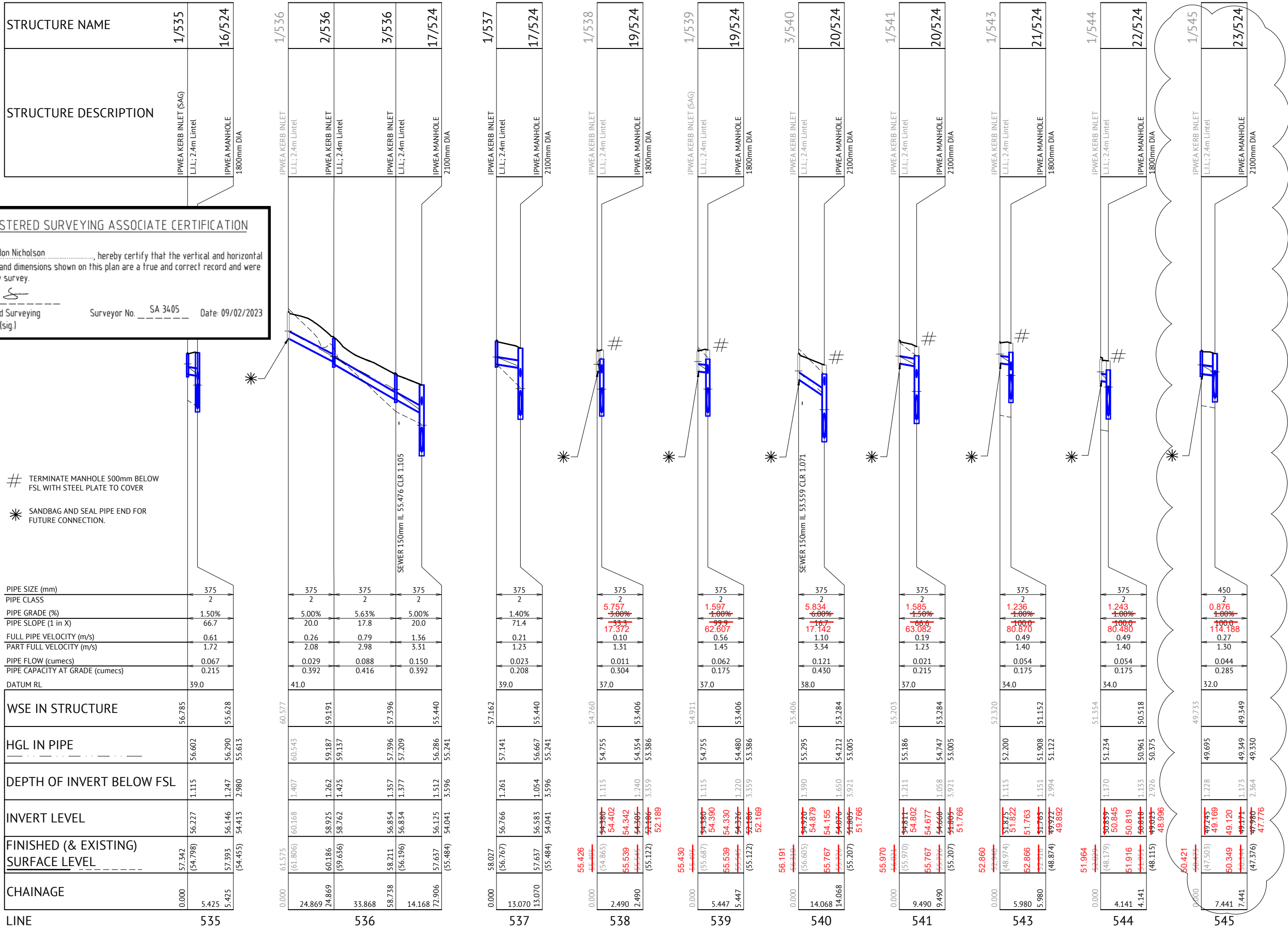
JOB CODE MIR009-03	
SHEET NUMBER C413	REV B

STRUCTURE NAME	1/535
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.I.L., 2.4m Lintel
	16/524
	IPWEA MANHOLE 1800mm DIA

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Registered Surveying Associate (sig.) Surveyor No. SA 3405 Date: 09/02/2023



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.50%
PIPE SLOPE (1 in X)	66.7
FULL PIPE VELOCITY (m/s)	0.61
PART FULL VELOCITY (m/s)	1.72
PIPE FLOW (cumecs)	0.067
PIPE CAPACITY AT GRADE (cumecs)	0.215
DATUM RL	39.0

WSE IN STRUCTURE	56.785	55.628
HGL IN PIPE	56.602	56.290
DEPTH OF INVERT BELOW FSL	1.115	1.247
INVERT LEVEL	56.227	56.146
FINISHED (& EXISTING) SURFACE LEVEL	57.342 (54.798)	57.393 (54.455)
CHAINAGE	0.000	5.425

PIPE SIZE (mm)	375	375	375
PIPE CLASS	2	2	2
PIPE GRADE (%)	5.00%	5.63%	5.00%
PIPE SLOPE (1 in X)	20.0	17.8	20.0
FULL PIPE VELOCITY (m/s)	0.26	0.79	1.36
PART FULL VELOCITY (m/s)	2.08	2.98	3.31
PIPE FLOW (cumecs)	0.029	0.088	0.150
PIPE CAPACITY AT GRADE (cumecs)	0.392	0.416	0.392
DATUM RL	41.0		

WSE IN STRUCTURE	60.577	59.191	57.396
HGL IN PIPE	60.543	59.187	57.209
DEPTH OF INVERT BELOW FSL	1.407	1.425	1.377
INVERT LEVEL	60.168	58.762	56.834
FINISHED (& EXISTING) SURFACE LEVEL	61.575 (61.806)	60.186 (59.636)	58.211 (56.196)
CHAINAGE	0.000	24.869	33.868

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.40%
PIPE SLOPE (1 in X)	71.4
FULL PIPE VELOCITY (m/s)	0.21
PART FULL VELOCITY (m/s)	1.23
PIPE FLOW (cumecs)	0.023
PIPE CAPACITY AT GRADE (cumecs)	0.208
DATUM RL	39.0

WSE IN STRUCTURE	57.162	55.440
HGL IN PIPE	57.141	56.667
DEPTH OF INVERT BELOW FSL	1.261	1.054
INVERT LEVEL	56.766	56.583
FINISHED (& EXISTING) SURFACE LEVEL	58.027 (56.767)	57.657 (55.484)
CHAINAGE	0.000	13.070

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	5.757
PIPE SLOPE (1 in X)	17.372
FULL PIPE VELOCITY (m/s)	0.10
PART FULL VELOCITY (m/s)	1.31
PIPE FLOW (cumecs)	0.011
PIPE CAPACITY AT GRADE (cumecs)	0.304
DATUM RL	37.0

WSE IN STRUCTURE	54.760	53.406
HGL IN PIPE	54.755	53.406
DEPTH OF INVERT BELOW FSL	1.115	1.240
INVERT LEVEL	54.402	54.354
FINISHED (& EXISTING) SURFACE LEVEL	55.426 (54.865)	55.539 (54.342)
CHAINAGE	0.000	2.490

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.597
PIPE SLOPE (1 in X)	62.607
FULL PIPE VELOCITY (m/s)	0.56
PART FULL VELOCITY (m/s)	1.45
PIPE FLOW (cumecs)	0.062
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	37.0

WSE IN STRUCTURE	54.911	53.406
HGL IN PIPE	54.755	53.386
DEPTH OF INVERT BELOW FSL	1.115	1.220
INVERT LEVEL	54.390	54.480
FINISHED (& EXISTING) SURFACE LEVEL	55.687 (55.687)	55.539 (55.122)
CHAINAGE	0.000	5.447

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	5.834
PIPE SLOPE (1 in X)	17.142
FULL PIPE VELOCITY (m/s)	1.10
PART FULL VELOCITY (m/s)	3.34
PIPE FLOW (cumecs)	0.121
PIPE CAPACITY AT GRADE (cumecs)	0.430
DATUM RL	38.0

WSE IN STRUCTURE	55.406	53.284
HGL IN PIPE	55.295	53.284
DEPTH OF INVERT BELOW FSL	1.390	1.650
INVERT LEVEL	54.879	54.747
FINISHED (& EXISTING) SURFACE LEVEL	56.191 (56.605)	55.767 (55.207)
CHAINAGE	0.000	14.068

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.585
PIPE SLOPE (1 in X)	63.082
FULL PIPE VELOCITY (m/s)	0.19
PART FULL VELOCITY (m/s)	1.23
PIPE FLOW (cumecs)	0.021
PIPE CAPACITY AT GRADE (cumecs)	0.215
DATUM RL	37.0

WSE IN STRUCTURE	55.203	53.284
HGL IN PIPE	55.186	53.005
DEPTH OF INVERT BELOW FSL	1.211	1.058
INVERT LEVEL	54.811	54.766
FINISHED (& EXISTING) SURFACE LEVEL	55.970 (55.970)	55.767 (55.207)
CHAINAGE	0.000	9.490

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.236
PIPE SLOPE (1 in X)	80.870
FULL PIPE VELOCITY (m/s)	0.49
PART FULL VELOCITY (m/s)	1.40
PIPE FLOW (cumecs)	0.054
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	34.0

WSE IN STRUCTURE	52.320	51.152
HGL IN PIPE	52.200	51.122
DEPTH OF INVERT BELOW FSL	1.115	1.151
INVERT LEVEL	51.825	51.763
FINISHED (& EXISTING) SURFACE LEVEL	52.860 (48.974)	52.866 (48.874)
CHAINAGE	0.000	5.980

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.243
PIPE SLOPE (1 in X)	80.480
FULL PIPE VELOCITY (m/s)	0.49
PART FULL VELOCITY (m/s)	1.40
PIPE FLOW (cumecs)	0.054
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	34.0

WSE IN STRUCTURE	51.354	50.518
HGL IN PIPE	51.234	50.375
DEPTH OF INVERT BELOW FSL	1.170	1.133
INVERT LEVEL	50.845	50.819
FINISHED (& EXISTING) SURFACE LEVEL	51.964 (48.179)	51.916 (48.115)
CHAINAGE	0.000	4.141

PIPE SIZE (mm)	450
PIPE CLASS	2
PIPE GRADE (%)	0.876
PIPE SLOPE (1 in X)	114.188
FULL PIPE VELOCITY (m/s)	0.27
PART FULL VELOCITY (m/s)	1.30
PIPE FLOW (cumecs)	0.044
PIPE CAPACITY AT GRADE (cumecs)	0.285
DATUM RL	32.0

WSE IN STRUCTURE	49.733	49.349
HGL IN PIPE	49.695	49.349
DEPTH OF INVERT BELOW FSL	1.228	1.173
INVERT LEVEL	49.169	49.120
FINISHED (& EXISTING) SURFACE LEVEL	50.421 (47.503)	50.349 (47.376)
CHAINAGE	0.000	7.441

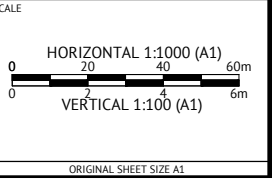
FOR CONSTRUCTION

07/05/2021	B	UPDATED LINE 1/545-23/524	MM	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	BA	APP
DATE	REV	DESCRIPTION	REC	APP



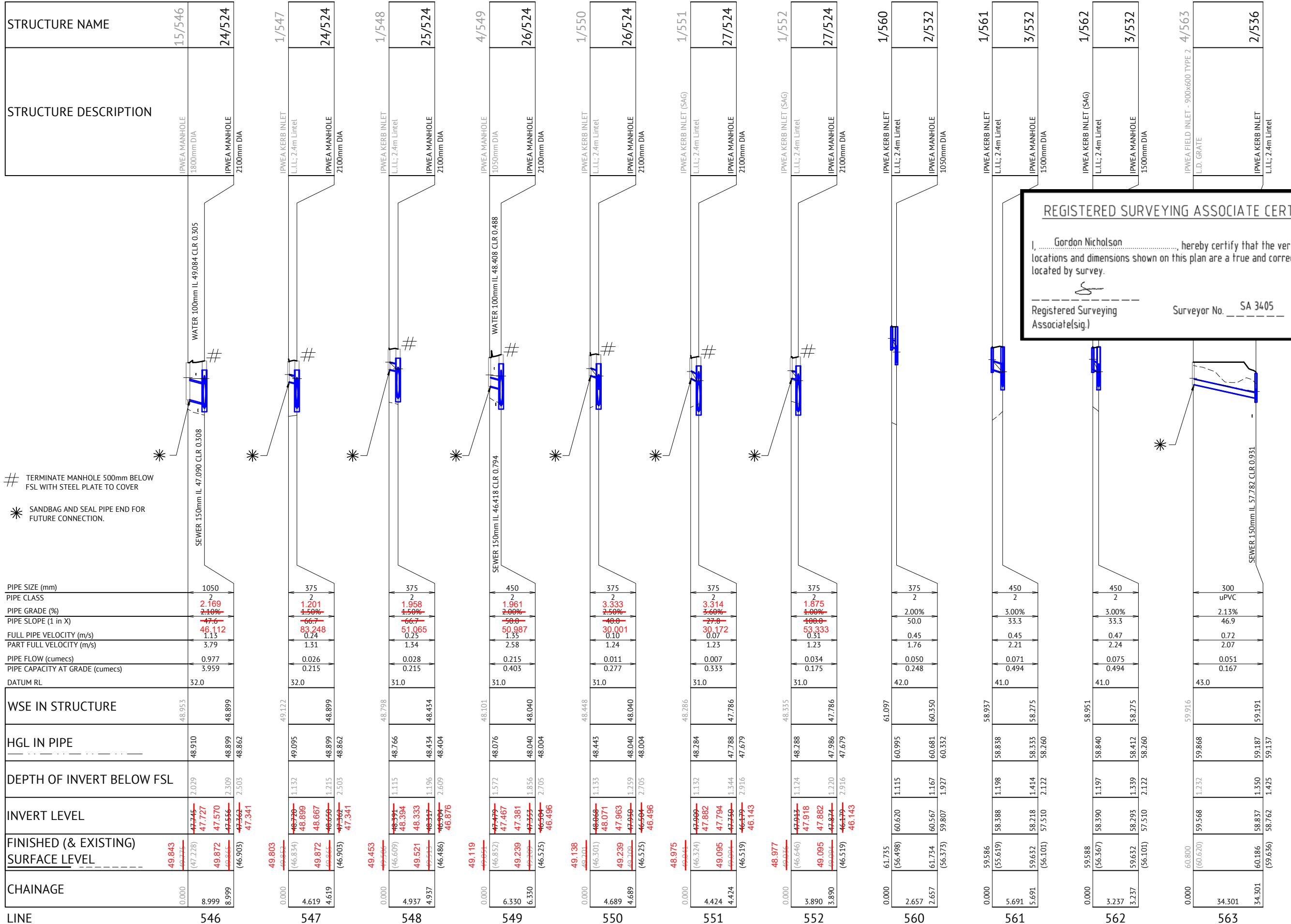
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED	K KIWANG
CHECKED	M MAJZNER
PROJECT MANAGER	S STEINHOFER
PROJECT DIRECTOR	
PATRICK BRADY	RPEQ 7112



CLIENT	MIRVAC GROUP
PROJECT	EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 4

JOB CODE	MIR012-01
SHEET NUMBER	C413
REV	B



REGISTERED SURVEYING ASSOCIATE CERTIFICATION
 I, Gordon Nicholson, hereby certify that the vertical and horizontal locations and dimensions shown on this plan are a true and correct record and were located by survey.
 Registered Surveying Associate(s) _____
 Surveyor No. SA 3405 Date: 09/02/2023

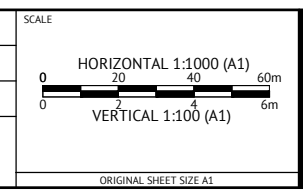
FOR CONSTRUCTION

DD/MM/YYYY	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE		
	1	PRELIMINARY - NOT FOR CONSTRUCTION	BA	APP
			REC	APP



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 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
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DESIGNED
B ADAMS
 CHECKED
M MAJZNER
 PROJECT MANAGER
R LLEWELYN
 PROJECT DIRECTOR
PAT BRADY RPEQ 7112




CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 5

JOB CODE MIR012-01	
SHEET NUMBER C414	REV A

STRUCTURE NAME	1/545	1/547	1/548	1/550	1/551	1/552
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.L: 2.4m Lintel IPWEA MANHOLE 2100mm DIA	IPWEA KERB INLET L.L.L: 2.4m Lintel IPWEA MANHOLE 2100mm DIA	IPWEA KERB INLET L.L.L: 2.4m Lintel IPWEA MANHOLE 2100mm DIA	IPWEA KERB INLET L.L.L: 2.4m Lintel IPWEA MANHOLE 2100mm DIA	IPWEA KERB INLET (SAG) L.L.L: 2.4m Lintel IPWEA MANHOLE 2100mm DIA	IPWEA KERB INLET (SAG) L.L.L: 2.4m Lintel IPWEA MANHOLE 2100mm DIA
CONSTRUCTED	CONSTRUCTED	CONSTRUCTED	CONSTRUCTED	CONSTRUCTED	CONSTRUCTED	CONSTRUCTED
CONSTRUCT KERB INLET OVER EXISTING PIPE END.	CONSTRUCT KERB INLET OVER EXISTING PIPE END.	CONSTRUCT KERB INLET OVER EXISTING PIPE END.	CONSTRUCT KERB INLET OVER EXISTING PIPE END.	CONSTRUCT KERB INLET OVER EXISTING PIPE END.	CONSTRUCT KERB INLET OVER EXISTING PIPE END.	CONSTRUCT KERB INLET OVER EXISTING PIPE END.
PIPE SIZE (mm)	450	375	375	375	375	375
PIPE CLASS	2	2	2	2	2	2
PIPE GRADE (%)	5.97%	1.20%	1.96%	3.33%	3.31%	1.875%
PIPE SLOPE (1 in X)	1.00%	1.50%	1.50%	1.50%	1.50%	1.00%
FULL PIPE VELOCITY (m/s)	16.746	83.248	51.065	30.001	30.172	53.333
PART FULL VELOCITY (m/s)	0.27	0.24	0.25	0.10	0.07	0.31
PIPE FLOW (cumecs)	1.30	1.31	1.34	1.24	1.23	1.23
PIPE CAPACITY AT GRADE (cumecs)	0.044	0.026	0.028	0.011	0.007	0.034
DATUM RL	32.0	32.0	31.0	31.0	31.0	31.0
WSE IN STRUCTURE	49.733	49.122	48.798	48.448	48.286	48.335
HGL IN PIPE	49.695	49.095	48.766	48.443	48.284	48.288
DEPTH OF INVERT BELOW FSL	1.728	1.132	1.115	1.135	1.132	1.124
INVERT LEVEL	49.245 49.169 49.120 49.177 47.980 47.776	48.220 48.699 48.667 48.444 47.362 47.341	48.263 48.394 48.333 48.404 46.876	48.006 48.071 47.963 47.950 46.496	47.909 47.882 47.794 47.679 46.143	47.913 47.971 47.882 47.679 46.193
FINISHED (& EXISTING) SURFACE LEVEL	50.421 49.477 (47.503) 50.349 49.244 (47.376)	49.803 49.852 (46.634) 49.872 49.852 (46.903)	49.453 49.504 (46.609) 49.521 49.521 (46.486)	49.138 49.201 (46.301) 49.239 49.239 (46.525)	48.975 49.044 (46.324) 49.095 49.095 (46.519)	48.977 49.046 (46.646) 49.095 49.095 (46.519)
CHAINAGE	0.000 7.441 7.441	0.000 4.619 4.619	0.000 4.937 4.937	0.000 4.689 4.689	0.000 4.424 4.424	0.000 3.890 3.890
LINE	545	547	548	550	551	552

REGISTERED SURVEYING ASSOCIATE CERTIFICATION

I, Gordon Nicholson, hereby certify that the vertical and horizontal locations and dimensions shown on this plan are a true and correct record and were located by survey.



 Registered Surveying Associate (sig.) Surveyor No. SA 3405 Date: 09/02/2023

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	KK	PB
13/01/2022	B	ISSUED FOR CONSTRUCTION	KK	PB
15/10/2021	A	ORIGINAL ISSUE	VKH	PB
			REC	APP



BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG
CHECKED R BARGER
PROJECT MANAGER S STEINHOFER
PROJECT DIRECTOR  PATRICK BRADY

SCALE

HORIZONTAL 1:1000 (A1)
0 20 40 60m

VERTICAL 1:100 (A1)
0 2 4 6m

ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 9.3A, B, C, D, E SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER DRAINAGE LONG SECTIONS - SHEET 5 OF 5

JOB CODE MIR009-03
SHEET NUMBER C414
REV B